

TEST REPORT

FCC Sub6 n77 Test for SM-S931B/DS
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2410-FC062

DATE OF ISSUE
October 29, 2024

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2410-FC062

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):	30
Bandwidth(MHz):	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency: (3450 MHz - 3550 MHz)	3455.01 MHz – 3544.99 MHz (Sub6 n77(10 MHz)) 3457.50 MHz – 3542.50 MHz (Sub6 n77(15 MHz)) 3460.02 MHz – 3540.00 MHz (Sub6 n77(20 MHz)) 3465.00 MHz – 3534.99 MHz (Sub6 n77(30 MHz)) 3470.01 MHz – 3529.98 MHz (Sub6 n77(40 MHz)) 3475.02 MHz – 3525.00 MHz (Sub6 n77(50 MHz)) 3480.00 MHz – 3519.99 MHz (Sub6 n77(60 MHz)) 3485.01 MHz – 3514.98 MHz (Sub6 n77(70 MHz)) 3490.02 MHz – 3510.00 MHz (Sub6 n77(80 MHz)) 3495.00 MHz – 3504.99 MHz (Sub6 n77(90 MHz)) 3500.01 MHz (Sub6 n77(100 MHz))
Tx Frequency: (3700 MHz - 3980 MHz)	3705.00 MHz – 3975.00 MHz (Sub6 n77(10 MHz)) 3707.51 MHz – 3972.48 MHz (Sub6 n77(15 MHz)) 3710.01 MHz – 3969.99 MHz (Sub6 n77(20 MHz)) 3715.02 MHz – 3964.98 MHz (Sub6 n77(30 MHz)) 3720.00 MHz – 3960.00 MHz (Sub6 n77(40 MHz)) 3725.10 MHz – 3954.99 MHz (Sub6 n77(50 MHz)) 3730.02 MHz – 3949.98 MHz (Sub6 n77(60 MHz)) 3735.00 MHz – 3945.00 MHz (Sub6 n77(70 MHz)) 3740.01 MHz – 3939.99 MHz (Sub6 n77(80 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(90 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(90 MHz)) 3750.00 MHz – 3930.00 MHz (Sub6 n77(100 MHz))
Date(s) of Tests:	August 21, 2024 ~ October 28, 2024
Serial number:	Radiated : R3CX80V3P0J Conducted : R3CX80PTCRA

1.1. MAXIMUM OUTPUT POWER

1. 3450 MHz - 3550 MHz

	Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
					Max. Power (W)	Max. Power (dBm)
Power Class 2	Sub6 n77 (10)	3455.01 – 3544.99	8M65G7D	PI/2 BPSK	0.253	24.03
			8M65G7D	QPSK	0.252	24.01
			8M69W7D	16QAM	0.194	22.88
			8M65W7D	64QAM	0.140	21.46
			8M66W7D	256QAM	0.084	19.24
	Sub6 n77 (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.272	24.35
			13M0G7D	QPSK	0.272	24.34
			13M0W7D	16QAM	0.205	23.12
			13M0W7D	64QAM	0.150	21.76
	Sub6 n77 (20)	3460.02 – 3540.00	13M0W7D	256QAM	0.090	19.52
			17M9G7D	PI/2 BPSK	0.277	24.42
			18M0G7D	QPSK	0.275	24.40
			18M0W7D	16QAM	0.211	23.24
			17M9W7D	64QAM	0.156	21.92
	Sub6 n77 (30)	3465.00 – 3534.99	17M9W7D	256QAM	0.092	19.66
			27M0G7D	PI/2 BPSK	0.282	24.50
			26M9G7D	QPSK	0.281	24.49
			26M9W7D	16QAM	0.212	23.26
			26M9W7D	64QAM	0.155	21.91
	Sub6 n77 (40)	3470.01 – 3529.98	27M0W7D	256QAM	0.092	19.64
			35M9G7D	PI/2 BPSK	0.283	24.52
			35M9G7D	QPSK	0.282	24.51
			35M9W7D	16QAM	0.215	23.32
			35M8W7D	64QAM	0.155	21.90
	Sub6 n77 (50)	3475.02 – 3525.00	35M8W7D	256QAM	0.093	19.67
			46M1G7D	PI/2 BPSK	0.290	24.63
			45M9G7D	QPSK	0.288	24.60
			46M0W7D	16QAM	0.223	23.49
			45M8W7D	64QAM	0.161	22.06
	Sub6 n77 (60)	3480.00 – 3519.99	45M9W7D	256QAM	0.096	19.81
			58M1G7D	PI/2 BPSK	0.290	24.62
			58M1G7D	QPSK	0.288	24.60
			58M0W7D	16QAM	0.222	23.46
			58M1W7D	64QAM	0.164	22.14
	Sub6 n77 (70)	3485.01 – 3514.98	58M3W7D	256QAM	0.097	19.86
			64M7G7D	PI/2 BPSK	0.294	24.69
			64M5G7D	QPSK	0.294	24.68
			64M5W7D	16QAM	0.234	23.69
			64M5W7D	64QAM	0.165	22.18
	Sub6 n77 (80)	3490.02 – 3510.00	64M7W7D	256QAM	0.098	19.93
			77M6G7D	PI/2 BPSK	0.306	24.86
			77M4G7D	QPSK	0.304	24.83
			77M5W7D	16QAM	0.228	23.58
			77M3W7D	64QAM	0.168	22.26
	Sub6 n77 (90)	3495.00 – 3504.99	77M5W7D	256QAM	0.102	20.08
			87M0G7D	PI/2 BPSK	0.296	24.71
			86M8G7D	QPSK	0.294	24.69
			87M1W7D	16QAM	0.226	23.55
			87M0W7D	64QAM	0.162	22.09
	Sub6 n77 (100)	3500.01	87M1W7D	256QAM	0.096	19.84
			96M8G7D	PI/2 BPSK	0.288	24.60
			97M0G7D	QPSK	0.288	24.59
			96M8W7D	16QAM	0.221	23.44
			96M8W7D	64QAM	0.161	22.08
			96M5W7D	256QAM	0.097	19.88

2. 3700 MHz - 3980 MHz

	Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
					Max. Power (W)	Max. Power (dBm)
Power Class 2	Sub6 n77 (10)	3705.00 – 3975.00	8M62G7D	PI/2 BPSK	0.261	24.16
			8M66G7D	QPSK	0.258	24.11
			8M59W7D	16QAM	0.197	22.94
			8M65W7D	64QAM	0.145	21.61
			8M65W7D	256QAM	0.087	19.38
	Sub6 n77 (15)	3707.51 – 3972.48	13M0G7D	PI/2 BPSK	0.279	24.46
			13M0G7D	QPSK	0.279	24.45
			13M0W7D	16QAM	0.217	23.36
			12M9W7D	64QAM	0.153	21.86
			13M0W7D	256QAM	0.093	19.70
	Sub6 n77 (20)	3710.01 – 3969.99	17M9G7D	PI/2 BPSK	0.284	24.53
			18M0G7D	QPSK	0.282	24.51
			18M0W7D	16QAM	0.218	23.38
			18M0W7D	64QAM	0.159	22.00
			17M9W7D	256QAM	0.093	19.67
	Sub6 n77 (30)	3715.02 – 3964.98	26M9G7D	PI/2 BPSK	0.303	24.81
			26M9G7D	QPSK	0.301	24.79
			26M9W7D	16QAM	0.226	23.54
			27M0W7D	64QAM	0.168	22.26
			26M9W7D	256QAM	0.099	19.95
	Sub6 n77 (40)	3720.00 – 3960.00	35M8G7D	PI/2 BPSK	0.303	24.82
			35M8G7D	QPSK	0.300	24.77
			35M9W7D	16QAM	0.229	23.60
			35M8W7D	64QAM	0.169	22.27
			35M9W7D	256QAM	0.099	19.95
	Sub6 n77 (50)	3725.10 – 3954.99	45M8G7D	PI/2 BPSK	0.326	25.13
			45M9G7D	QPSK	0.322	25.08
			45M8W7D	16QAM	0.245	23.89
			45M9W7D	64QAM	0.179	22.53
			45M9W7D	256QAM	0.110	20.40
	Sub6 n77 (60)	3730.02 – 3949.98	57M9G7D	PI/2 BPSK	0.319	25.04
			58M1G7D	QPSK	0.318	25.03
			58M0W7D	16QAM	0.249	23.97
			58M0W7D	64QAM	0.178	22.50
			58M0W7D	256QAM	0.107	20.28
	Sub6 n77 (70)	3735.00 – 3945.00	64M4G7D	PI/2 BPSK	0.327	25.15
			64M4G7D	QPSK	0.326	25.13
			64M5W7D	16QAM	0.255	24.07
			64M4W7D	64QAM	0.180	22.56
			64M5W7D	256QAM	0.109	20.36
	Sub6 n77 (80)	3740.01 – 3939.99	77M4G7D	PI/2 BPSK	0.340	25.31
			77M4G7D	QPSK	0.339	25.30
			77M3W7D	16QAM	0.262	24.19
			77M3W7D	64QAM	0.191	22.82
			77M5W7D	256QAM	0.111	20.47
	Sub6 n77 (90)	3745.02 – 3934.98	87M0G7D	PI/2 BPSK	0.348	25.42
			87M0G7D	QPSK	0.347	25.40
			87M0W7D	16QAM	0.264	24.22
			87M0W7D	64QAM	0.193	22.85
			86M9W7D	256QAM	0.115	20.59
	Sub6 n77 (100)	3750.00 – 3930.00	96M6G7D	PI/2 BPSK	0.322	25.08
			96M5G7D	QPSK	0.321	25.06
			96M8W7D	16QAM	0.249	23.97
			96M9W7D	64QAM	0.187	22.71
			96M5W7D	256QAM	0.110	20.43

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;

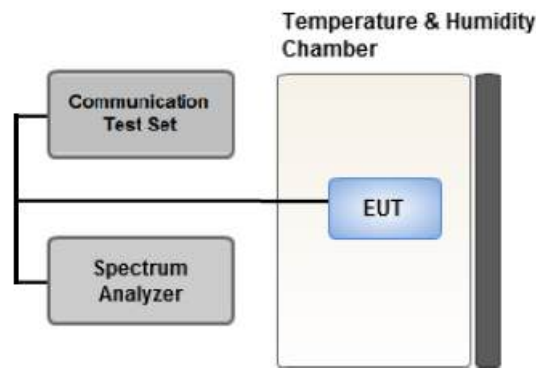
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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)

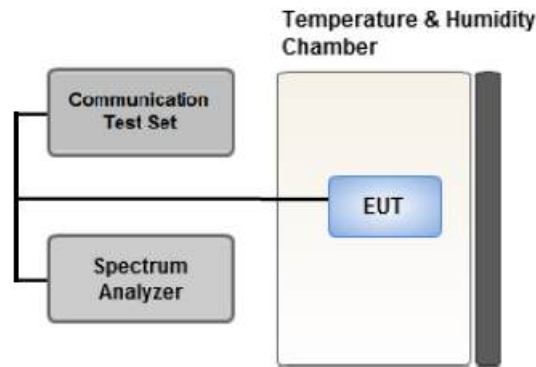
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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.

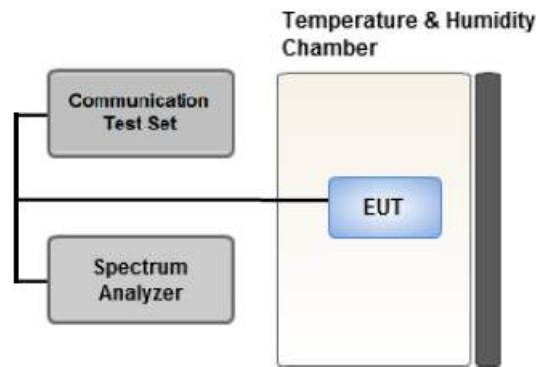
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

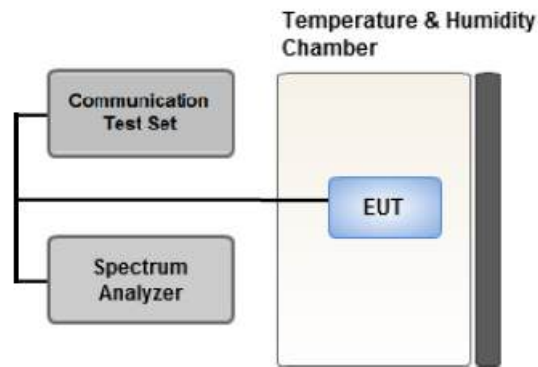
Test Overview

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

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.

However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz.

In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.

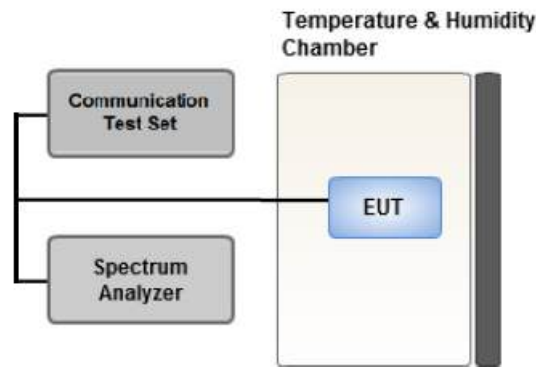
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. .

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: SA, NSA, SRS
Worst case: SA mode
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 were investigated and the worst case bandwidth results are reported.
(Worst case : 80 MHz(3450 MHz - 3550 MHz), 90 MHz(3700 MHz - 3980 MHz))
- SM-S931B/DS & additional models were tested and the worst case results are reported.
(Worst case : SM-S931B/DS)

[3450 MHz - 3550 MHz 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		Y
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.2		Y

[3700 MHz - 3980 MHz 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		Y
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 9.2		Y

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, NSA, SRS
Worst case: SA mode
- 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,	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Band Edge	PI/2 BPSK	10	Low	1	0
			High	1	23
		15	Low	1	0
			High	1	37
		20	Low	1	0
			High	1	50
		30	Low	1	0
			High	1	77
		40	Low	1	0
			High	1	105
		50	Low	1	0
			High	1	132
		60	Low	1	0
			High	1	161
		70	Low	1	0
			High	1	188
		80	Low	1	0
			High	1	216
		90	Low	1	0
			High	1	244
		100	Low	1	0
			High	1	272
		10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/27/2025	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(n)(2), § 27.53(l)(2)	< -13 dBm	PASS
Conducted Output Power	§ 2.1046	N/A	<u>See Note1</u>
Peak- to- Average Ratio	§ 27.50(k)(4), § 27.50(j)(4)	< 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(k)(3), § 27.50(j)(3)	< 1 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1051, § 27.53(n)(2), § 27.53(l)(2)	< -13 dBm	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(3450 MHz - 3550 MHz)

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
3455.01	Sub6 n77/ 10 MHz [30 kHz]	PI/2 BPSK	-22.87	15.11	11.96	3.04	H	< 1.00	0.253	24.03	1	1
		QPSK	-22.89	15.09	11.96	3.04	H		0.252	24.01		
		16-QAM	-24.02	13.96	11.96	3.04	H		0.194	22.88		
		64-QAM	-25.44	12.54	11.96	3.04	H		0.140	21.46		
		256-QAM	-27.71	10.27	11.96	3.04	H		0.083	19.19		
3500.01		PI/2 BPSK	-23.29	15.03	12.04	3.04	H		0.253	24.03	1	1
		QPSK	-23.31	15.01	12.04	3.04	H		0.252	24.01		
		16-QAM	-24.55	13.77	12.04	3.04	H		0.189	22.77		
		64-QAM	-25.86	12.46	12.04	3.04	H		0.140	21.46		
		256-QAM	-28.08	10.24	12.04	3.04	H		0.084	19.24		
3544.98		PI/2 BPSK	-23.68	14.67	12.04	3.07	H		0.231	23.64	1	1
		QPSK	-23.71	14.64	12.04	3.07	H		0.230	23.61		
		16-QAM	-24.92	13.43	12.04	3.07	H		0.174	22.40		
		64-QAM	-26.16	12.19	12.04	3.07	H		0.131	21.16		
		256-QAM	-28.50	9.85	12.04	3.07	H		0.076	18.82		

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
3457.50	Sub6 n77/ 15 MHz [30 kHz]	PI/2 BPSK	-22.80	15.21	12.00	3.04	H	< 1.00	0.261	24.17	1	1
		QPSK	-22.82	15.19	12.00	3.04	H		0.260	24.15		
		16-QAM	-23.94	14.07	12.00	3.04	H		0.201	23.03		
		64-QAM	-25.38	12.63	12.00	3.04	H		0.144	21.59		
		256-QAM	-27.65	10.36	12.00	3.04	H		0.086	19.32		
3500.01		PI/2 BPSK	-22.97	15.35	12.04	3.04	H		0.272	24.35	1	1
		QPSK	-22.98	15.34	12.04	3.04	H		0.272	24.34		
		16-QAM	-24.20	14.12	12.04	3.04	H		0.205	23.12		
		64-QAM	-25.56	12.76	12.04	3.04	H		0.150	21.76		
		256-QAM	-27.80	10.52	12.04	3.04	H		0.090	19.52		
3542.50		PI/2 BPSK	-23.42	14.93	12.04	3.07	H		0.246	23.90	1	1
		QPSK	-23.44	14.91	12.04	3.07	H		0.244	23.88		
		16-QAM	-24.58	13.77	12.04	3.07	H		0.188	22.74		
		64-QAM	-25.87	12.48	12.04	3.07	H		0.140	21.45		
		256-QAM	-28.24	10.11	12.04	3.07	H		0.081	19.08		

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
3460.02		PI/2 BPSK	-22.79	15.22	12.00	3.04	H	< 1.00	0.262	24.18	1	1
		QPSK	-22.80	15.21	12.00	3.04	H		0.261	24.17		
		16-QAM	-24.03	13.98	12.00	3.04	H		0.197	22.94		
		64-QAM	-25.33	12.68	12.00	3.04	H		0.146	21.64		
		256-QAM	-27.53	10.48	12.00	3.04	H		0.088	19.44		
3500.01	Sub6 n77/ 20 MHz [30 kHz]	PI/2 BPSK	-22.90	15.42	12.04	3.04	H	< 1.00	0.277	24.42	1	1
		QPSK	-22.92	15.40	12.04	3.04	H		0.275	24.40		
		16-QAM	-24.08	14.24	12.04	3.04	H		0.211	23.24		
		64-QAM	-25.40	12.92	12.04	3.04	H		0.156	21.92		
		256-QAM	-27.66	10.66	12.04	3.04	H		0.092	19.66		
3540.00		PI/2 BPSK	-23.30	14.98	12.04	3.06	H	< 1.00	0.249	23.96	1	1
		QPSK	-23.34	14.94	12.04	3.06	H		0.247	23.92		
		16-QAM	-24.48	13.80	12.04	3.06	H		0.190	22.78		
		64-QAM	-25.79	12.49	12.04	3.06	H		0.140	21.47		
		256-QAM	-28.18	10.10	12.04	3.06	H		0.081	19.08		

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
3465.00		PI/2 BPSK	-22.50	15.50	12.02	3.02	H	< 1.00	0.282	24.50	1	1
		QPSK	-22.52	15.48	12.02	3.02	H		0.281	24.48		
		16-QAM	-23.80	14.20	12.02	3.02	H		0.209	23.20		
		64-QAM	-25.15	12.85	12.02	3.02	H		0.153	21.85		
		256-QAM	-27.36	10.64	12.02	3.02	H		0.092	19.64		
3500.01	Sub6 n77/ 30 MHz [30 kHz]	PI/2 BPSK	-22.82	15.50	12.04	3.04	H	< 1.00	0.282	24.50	1	1
		QPSK	-22.83	15.49	12.04	3.04	H		0.281	24.49		
		16-QAM	-24.06	14.26	12.04	3.04	H		0.212	23.26		
		64-QAM	-25.41	12.91	12.04	3.04	H		0.155	21.91		
		256-QAM	-27.70	10.62	12.04	3.04	H		0.092	19.62		
3534.99		PI/2 BPSK	-23.05	15.25	12.04	3.05	H	< 1.00	0.266	24.24	1	1
		QPSK	-23.07	15.23	12.04	3.05	H		0.264	24.22		
		16-QAM	-24.26	14.04	12.04	3.05	H		0.201	23.03		
		64-QAM	-25.69	12.61	12.04	3.05	H		0.145	21.60		
		256-QAM	-27.95	10.35	12.04	3.05	H		0.086	19.34		

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
3470.01	Sub6 n77/ 40 MHz [30 kHz]	PI/2 BPSK	-22.55	15.45	12.04	3.01	H	< 1.00	0.281	24.48	1	1
		QPSK	-22.57	15.43	12.04	3.01	H		0.279	24.46		
		16-QAM	-23.91	14.09	12.04	3.01	H		0.205	23.12		
		64-QAM	-25.20	12.80	12.04	3.01	H		0.152	21.83		
		256-QAM	-27.42	10.58	12.04	3.01	H		0.091	19.61		
3500.01		PI/2 BPSK	-22.80	15.52	12.04	3.04	H		0.283	24.52	1	1
		QPSK	-22.81	15.51	12.04	3.04	H		0.282	24.51		
		16-QAM	-24.00	14.32	12.04	3.04	H		0.215	23.32		
		64-QAM	-25.42	12.90	12.04	3.04	H		0.155	21.90		
		256-QAM	-27.65	10.67	12.04	3.04	H		0.093	19.67		
3529.98		PI/2 BPSK	-23.03	15.29	12.04	3.05	H		0.268	24.28	1	1
		QPSK	-23.05	15.27	12.04	3.05	H		0.267	24.26		
		16-QAM	-24.17	14.15	12.04	3.05	H		0.206	23.14		
		64-QAM	-25.58	12.74	12.04	3.05	H		0.149	21.73		
		256-QAM	-27.80	10.52	12.04	3.05	H		0.089	19.51		

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
3475.02	Sub6 n77/ 50 MHz [30 kHz]	PI/2 BPSK	-22.48	15.54	12.04	3.02	H	< 1.00	0.286	24.56	1	1
		QPSK	-22.49	15.53	12.04	3.02	H		0.285	24.55		
		16-QAM	-23.55	14.47	12.04	3.02	H		0.223	23.49		
		64-QAM	-25.00	13.02	12.04	3.02	H		0.160	22.04		
		256-QAM	-27.35	10.67	12.04	3.02	H		0.093	19.69		
3500.01		PI/2 BPSK	-22.76	15.56	12.04	3.04	H		0.286	24.56	1	1
		QPSK	-22.77	15.55	12.04	3.04	H		0.285	24.55		
		16-QAM	-24.00	14.32	12.04	3.04	H		0.215	23.32		
		64-QAM	-25.33	12.99	12.04	3.04	H		0.158	21.99		
		256-QAM	-27.52	10.80	12.04	3.04	H		0.096	19.80		
3525.00	PI/2 BPSK	-22.77	15.63	12.04	3.04	H	0.290	24.63	1	1		
	QPSK	-22.80	15.60	12.04	3.04	H	0.288	24.60				
	16-QAM	-23.92	14.48	12.04	3.04	H	0.223	23.48				
	64-QAM	-25.34	13.06	12.04	3.04	H	0.161	22.06				
	256-QAM	-27.59	10.81	12.04	3.04	H	0.096	19.81				

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
3480.00	Sub6 n77/ 60 MHz [30 kHz]	PI/2 BPSK	-22.75	15.28	12.04	3.02	H	< 1.00	0.269	24.30	1	1
		QPSK	-22.77	15.26	12.04	3.02	H		0.268	24.28		
		16-QAM	-23.85	14.18	12.04	3.02	H		0.209	23.20		
		64-QAM	-25.30	12.73	12.04	3.02	H		0.150	21.75		
		256-QAM	-27.49	10.54	12.04	3.02	H		0.090	19.56		
3500.01		PI/2 BPSK	-22.88	15.44	12.04	3.04	H		0.278	24.44	1	1
		QPSK	-22.90	15.42	12.04	3.04	H		0.277	24.42		
		16-QAM	-24.02	14.30	12.04	3.04	H		0.214	23.30		
		64-QAM	-25.45	12.87	12.04	3.04	H		0.154	21.87		
		256-QAM	-27.65	10.67	12.04	3.04	H		0.093	19.67		
3519.99		PI/2 BPSK	-22.87	15.62	12.04	3.04	H		0.290	24.62	1	1
		QPSK	-22.89	15.60	12.04	3.04	H		0.288	24.60		
		16-QAM	-24.03	14.46	12.04	3.04	H		0.222	23.46		
		64-QAM	-25.35	13.14	12.04	3.04	H		0.164	22.14		
		256-QAM	-27.63	10.86	12.04	3.04	H		0.097	19.86		

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
3485.01	Sub6 n77/ 70 MHz [30 kHz]	PI/2 BPSK	-22.75	15.35	12.04	3.03	H	< 1.00	0.273	24.36	1	1
		QPSK	-22.76	15.36	12.04	3.03	H		0.272	24.35		
		16-QAM	-23.90	14.20	12.04	3.03	H		0.209	23.21		
		64-QAM	-25.27	12.83	12.04	3.03	H		0.153	21.84		
		256-QAM	-27.43	10.67	12.04	3.03	H		0.093	19.68		
3500.01		PI/2 BPSK	-22.85	15.47	12.04	3.04	H		0.280	24.47	1	1
		QPSK	-22.86	15.46	12.04	3.04	H		0.279	24.46		
		16-QAM	-23.83	14.49	12.04	3.04	H		0.223	23.49		
		64-QAM	-25.30	13.02	12.04	3.04	H		0.159	22.02		
		256-QAM	-27.60	10.72	12.04	3.04	H		0.094	19.72		
3514.98		PI/2 BPSK	-22.83	15.69	12.04	3.04	H		0.294	24.69	1	1
		QPSK	-22.84	15.68	12.04	3.04	H		0.294	24.68		
		16-QAM	-23.83	14.69	12.04	3.04	H		0.234	23.69		
		64-QAM	-25.34	13.18	12.04	3.04	H		0.165	22.18		
		256-QAM	-27.59	10.93	12.04	3.04	H		0.098	19.93		

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
3490.02	Sub6 n77/ 80 MHz [30 kHz]	PI/2 BPSK	-22.57	15.60	12.04	3.04	H	< 1.00	0.288	24.60	1	1
		QPSK	-22.59	15.58	12.04	3.04	H		0.287	24.58		
		16-QAM	-23.86	14.31	12.04	3.04	H		0.214	23.31		
		64-QAM	-25.22	12.95	12.04	3.04	H		0.157	21.95		
		256-QAM	-27.38	10.79	12.04	3.04	H		0.095	19.79		
3500.01		PI/2 BPSK	-22.72	15.60	12.04	3.04	H		0.288	24.60	1	1
		QPSK	-22.75	15.57	12.04	3.04	H		0.286	24.57		
		16-QAM	-23.90	14.42	12.04	3.04	H		0.220	23.42		
		64-QAM	-25.30	13.02	12.04	3.04	H		0.159	22.02		
		256-QAM	-27.51	10.81	12.04	3.04	H		0.096	19.81		
3510.00		PI/2 BPSK	-22.70	15.87	12.04	3.05	H	0.306	24.86	1	1	
		QPSK	-22.73	15.84	12.04	3.05	H	0.304	24.83			
		16-QAM	-23.98	14.59	12.04	3.05	H	0.228	23.58			
		64-QAM	-25.30	13.27	12.04	3.05	H	0.168	22.26			
		256-QAM	-27.48	11.09	12.04	3.05	H	0.102	20.08			

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
3495.00	Sub6 n77/ 90 MHz [30 kHz]	PI/2 BPSK	-22.70	15.55	12.04	3.04	H	< 1.00	0.285	24.55	1	1
		QPSK	-22.71	15.54	12.04	3.04	H		0.284	24.54		
		16-QAM	-23.99	14.26	12.04	3.04	H		0.212	23.26		
		64-QAM	-25.32	12.93	12.04	3.04	H		0.156	21.93		
		256-QAM	-27.47	10.78	12.04	3.04	H		0.095	19.78		
3500.01		PI/2 BPSK	-22.71	15.61	12.04	3.04	H		0.289	24.61	1	1
		QPSK	-22.73	15.59	12.04	3.04	H		0.288	24.59		
		16-QAM	-23.86	14.46	12.04	3.04	H		0.222	23.46		
		64-QAM	-25.26	13.06	12.04	3.04	H		0.161	22.06		
		256-QAM	-27.48	10.84	12.04	3.04	H		0.096	19.84		
3504.99		PI/2 BPSK	-22.73	15.72	12.04	3.05	H		0.296	24.71	1	1
		QPSK	-22.75	15.70	12.04	3.05	H		0.294	24.69		
		16-QAM	-23.89	14.56	12.04	3.05	H		0.226	23.55		
		64-QAM	-25.35	13.10	12.04	3.05	H		0.162	22.09		
		256-QAM	-27.60	10.85	12.04	3.05	H		0.096	19.84		

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
3500.01	Sub6 n77/ 100 MHz [30 kHz]	PI/2 BPSK	-22.72	15.60	12.04	3.04	H	< 1.00	0.288	24.60	1	1
		QPSK	-22.73	15.59	12.04	3.04	H		0.288	24.59		
		16-QAM	-23.88	14.44	12.04	3.04	H		0.221	23.44		
		64-QAM	-25.24	13.08	12.04	3.04	H		0.161	22.08		
		256-QAM	-27.44	10.88	12.04	3.04	H		0.097	19.88		

8.2 RADIATED SPURIOUS EMISSIONS

■ NR Band:	<u>N77</u>
■ Bandwidth:	<u>80 MHz</u>
■ Modulation:	<u>PI/2 BPSK</u>
■ Distance:	<u>1 meters</u>
■ SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
632668 (3490.02)	6 980.04	-57.48	11.16	-51.82	4.48	H	-45.14	-13.00	1	1
	10 470.06	-62.09	11.72	-51.89	5.59	H	-45.76	-13.00		
	13 960.08	-60.32	12.79	-50.68	6.50	H	-44.39	-13.00		
633334 (3500.01)	7 000.02	-60.91	11.13	-54.26	4.45	H	-47.58	-13.00	1	1
	10 500.03	-62.70	11.71	-51.45	5.64	H	-45.38	-13.00		
	14 000.04	-58.15	12.76	-48.57	6.55	H	-42.36	-13.00		
634000 (3510.00)	7 020.00	-62.27	11.07	-55.36	4.41	H	-48.70	-13.00	1	1
	10 530.00	-61.67	11.69	-50.91	5.64	H	-44.86	-13.00		
	14 040.00	-58.63	12.73	-49.31	6.50	H	-43.08	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77	10 MHz	3500.01	BPSK	Full RB	0	4.04
			QPSK			5.23
			16-QAM			6.12
			64-QAM			6.51
			256-QAM			6.41
	15 MHz		BPSK			4.24
			QPSK			5.44
			16-QAM			6.31
			64-QAM			6.42
			256-QAM			6.83
	20 MHz		BPSK			4.41
			QPSK			5.45
			16-QAM			6.36
			64-QAM			6.51
			256-QAM			6.86
	30 MHz		BPSK			4.38
			QPSK			5.42
			16-QAM			6.19
			64-QAM			6.60
			256-QAM			6.67
	40 MHz		BPSK			4.31
			QPSK			5.46
			16-QAM			6.22
			64-QAM			6.50
			256-QAM			6.63
	50 MHz		BPSK			3.95
			QPSK			5.55
			16-QAM			6.25
			64-QAM			6.45
			256-QAM			6.67

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77	60 MHz	3500.01	BPSK	Full RB	0	4.31
			QPSK			5.41
			16-QAM			6.23
			64-QAM			6.56
			256-QAM			6.71
	70 MHz		BPSK			3.99
			QPSK			5.52
			16-QAM			6.27
			64-QAM			6.56
			256-QAM			6.77
	80 MHz		BPSK			4.39
			QPSK			5.60
			16-QAM			6.31
			64-QAM			6.54
			256-QAM			6.74
	90 MHz		BPSK			4.45
			QPSK			5.52
			16-QAM			6.30
			64-QAM			6.48
			256-QAM			6.63
	100 MHz		BPSK			4.57
			QPSK			5.60
			16-QAM			6.31
			64-QAM			6.52
			256-QAM			6.71

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 87 ~ 141.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77	10 MHz	3500.01	BPSK	Full RB	0	8.6533
			QPSK			8.6500
			16-QAM			8.6885
			64-QAM			8.6477
			256-QAM			8.6636
	15 MHz		BPSK			12.980
			QPSK			12.948
			16-QAM			12.977
			64-QAM			12.967
			256-QAM			13.027
	20 MHz		BPSK			17.917
			QPSK			18.035
			16-QAM			18.023
			64-QAM			17.917
			256-QAM			17.924
	30 MHz		BPSK			26.952
			QPSK			26.940
			16-QAM			26.942
			64-QAM			26.940
			256-QAM			26.959
	40 MHz		BPSK			35.880
			QPSK			35.921
			16-QAM			35.853
			64-QAM			35.756
			256-QAM			35.764
	50 MHz		BPSK			46.102
			QPSK			45.900
			16-QAM			45.964
			64-QAM			45.840
			256-QAM			45.886

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77	60 MHz	3500.01	BPSK	Full RB	0	58.098
			QPSK			58.125
			16-QAM			58.001
			64-QAM			58.080
			256-QAM			58.252
	70 MHz		BPSK			64.656
			QPSK			64.487
			16-QAM			64.487
			64-QAM			64.481
			256-QAM			64.648
	80 MHz		BPSK			77.591
			QPSK			77.405
			16-QAM			77.471
			64-QAM			77.322
			256-QAM			77.496
	90 MHz		BPSK			86.946
			QPSK			86.783
			16-QAM			87.103
			64-QAM			87.023
			256-QAM			87.047
	100 MHz		BPSK			96.807
			QPSK			97.015
			16-QAM			96.789
			64-QAM			96.842
			256-QAM			96.544

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 142 ~ 196.

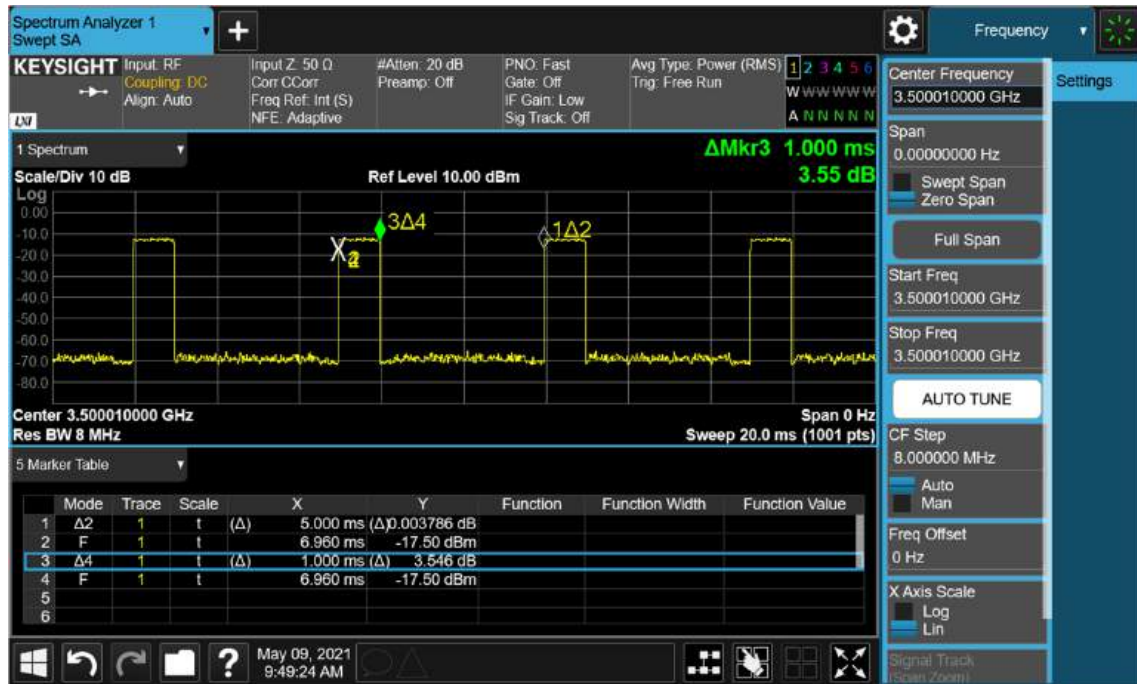
8.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n77	10	3455.010	5.2388	37.805	-74.350	-36.545	-13.00
		3500.010	9.1122	37.805	-74.012	-36.207	
		3544.980	9.2134	37.805	-74.782	-36.977	
	15	3457.500	6.0469	37.805	-73.891	-36.086	
		3500.010	5.2029	37.805	-74.347	-36.542	
		3542.490	7.2144	37.805	-74.525	-36.720	
	20	3460.020	6.0309	37.805	-74.690	-36.885	
		3500.010	9.9497	37.805	-74.620	-36.815	
		3540.000	9.6994	37.805	-74.487	-36.682	
	30	3465.000	7.9861	37.805	-74.732	-36.927	
		3500.010	8.8320	37.805	-74.079	-36.274	
		3534.990	9.9786	37.805	-74.321	-36.516	
	40	3470.010	9.7303	37.805	-73.812	-36.007	
		3500.010	8.8395	37.805	-74.741	-36.936	
		3529.980	7.9945	37.805	-74.667	-36.862	
	50	3475.020	8.0115	37.805	-74.916	-37.111	
		3500.010	9.6840	37.805	-73.914	-36.109	
		3525.000	8.2498	37.805	-74.055	-36.250	
	60	3480.000	8.3071	37.805	-74.406	-36.601	
		3500.010	4.9208	37.190	-74.326	-37.136	
		3519.990	5.2024	37.805	-74.513	-36.708	
	70	3485.010	8.2852	37.805	-74.080	-36.275	
		3500.010	9.9472	37.805	-74.456	-36.651	
		3514.980	8.2921	37.805	-74.183	-36.378	
	80	3490.020	8.3385	37.805	-74.405	-36.600	
		3500.010	5.2059	37.805	-74.353	-36.548	
		3510.000	4.9607	37.190	-74.594	-37.404	
	90	3495.000	5.2089	37.805	-74.335	-36.530	
		3500.010	6.0160	37.805	-74.071	-36.266	
		3504.990	9.0877	37.805	-73.991	-36.186	
	100	3500.010	7.9482	37.805	-74.403	-36.598	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 197 ~ 258.
2. Duty Cycle factor already applied on the factor.

- Duty Cycle Factor(dB) = 6.990



- 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 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 259 ~ 390.
2. 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) = 6.990

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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3455.010	100 %	+20(Ref)	3455 009 995	0.0	0.000 000	0.000
	100 %	-30	3455 009 990	-4.8	0.000 000	-0.001
	100 %	-20	3455 009 989	-5.9	0.000 000	-0.002
	100 %	-10	3455 009 996	0.5	0.000 000	0.000
	100 %	0	3455 009 989	-6.5	0.000 000	-0.002
	100 %	+10	3455 009 993	-2.5	0.000 000	-0.001
	100 %	+30	3455 009 992	-2.8	0.000 000	-0.001
	100 %	+40	3455 009 989	-6.4	0.000 000	-0.002
	100 %	+50	3455 009 990	-5.3	0.000 000	-0.002
	Batt. Endpoint	+20	3455 009 992	-3.3	0.000 000	-0.001
3544.980	100 %	+20(Ref)	3544 979 996	0.0	0.000 000	0.000
	100 %	-30	3544 979 990	-5.8	0.000 000	-0.002
	100 %	-20	3544 979 990	-5.8	0.000 000	-0.002
	100 %	-10	3544 979 991	-4.5	0.000 000	-0.001
	100 %	0	3544 979 991	-4.6	0.000 000	-0.001
	100 %	+10	3544 979 996	0.4	0.000 000	0.000
	100 %	+30	3544 979 988	-7.4	0.000 000	-0.002
	100 %	+40	3544 979 996	-0.2	0.000 000	0.000
	100 %	+50	3544 979 993	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	3544 979 989	-6.9	0.000 000	-0.002

- ▣ 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)	(%)	
3457.500	100 %	+20(Ref)	3457 499 997	0.0	0.000 000	0.000
	100 %	-30	3457 499 992	-5.2	0.000 000	-0.001
	100 %	-20	3457 499 999	2.0	0.000 000	0.001
	100 %	-10	3457 499 994	-2.5	0.000 000	-0.001
	100 %	0	3457 499 997	0.3	0.000 000	0.000
	100 %	+10	3457 499 996	-1.1	0.000 000	0.000
	100 %	+30	3457 499 998	1.3	0.000 000	0.000
	100 %	+40	3457 499 994	-2.3	0.000 000	-0.001
	100 %	+50	3457 499 995	-1.7	0.000 000	-0.001
	Batt. Endpoint	+20	3457 499 993	-4.0	0.000 000	-0.001
3542.490	100 %	+20(Ref)	3542 489 999	0.0	0.000 000	0.000
	100 %	-30	3542 489 996	-2.9	0.000 000	-0.001
	100 %	-20	3542 489 997	-1.7	0.000 000	0.000
	100 %	-10	3542 489 998	-1.3	0.000 000	0.000
	100 %	0	3542 489 998	-1.2	0.000 000	0.000
	100 %	+10	3542 489 998	-1.1	0.000 000	0.000
	100 %	+30	3542 489 990	-8.8	0.000 000	-0.002
	100 %	+40	3542 489 994	-4.8	0.000 000	-0.001
	100 %	+50	3542 489 992	-6.9	0.000 000	-0.002
	Batt. Endpoint	+20	3542 490 001	1.6	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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3460.020	100 %	+20(Ref)	3460 019 999	0.0	0.000 000	0.000
	100 %	-30	3460 020 000	0.9	0.000 000	0.000
	100 %	-20	3460 020 000	0.7	0.000 000	0.000
	100 %	-10	3460 019 997	-1.9	0.000 000	-0.001
	100 %	0	3460 019 998	-1.3	0.000 000	0.000
	100 %	+10	3460 019 996	-3.7	0.000 000	-0.001
	100 %	+30	3460 020 003	3.5	0.000 000	0.001
	100 %	+40	3460 019 998	-1.5	0.000 000	0.000
	100 %	+50	3460 019 999	-0.6	0.000 000	0.000
	Batt. Endpoint	+20	3460 020 000	0.4	0.000 000	0.000
3540.000	100 %	+20(Ref)	3539 999 997	0.0	0.000 000	0.000
	100 %	-30	3539 999 998	0.4	0.000 000	0.000
	100 %	-20	3540 000 000	2.6	0.000 000	0.001
	100 %	-10	3539 999 996	-1.4	0.000 000	0.000
	100 %	0	3539 999 996	-0.7	0.000 000	0.000
	100 %	+10	3539 999 997	-0.2	0.000 000	0.000
	100 %	+30	3539 999 996	-1.7	0.000 000	0.000
	100 %	+40	3539 999 995	-2.5	0.000 000	-0.001
	100 %	+50	3539 999 994	-3.0	0.000 000	-0.001
	Batt. Endpoint	+20	3539 999 994	-3.3	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)	(%)	
3465.000	100 %	+20(Ref)	3464 999 998	0.0	0.000 000	0.000
	100 %	-30	3464 999 996	-2.4	0.000 000	-0.001
	100 %	-20	3464 999 996	-1.9	0.000 000	-0.001
	100 %	-10	3465 000 000	2.0	0.000 000	0.001
	100 %	0	3464 999 996	-2.1	0.000 000	-0.001
	100 %	+10	3464 999 993	-5.3	0.000 000	-0.002
	100 %	+30	3464 999 993	-5.2	0.000 000	-0.002
	100 %	+40	3464 999 997	-1.0	0.000 000	0.000
	100 %	+50	3464 999 996	-2.0	0.000 000	-0.001
	Batt. Endpoint	+20	3464 999 995	-3.2	0.000 000	-0.001
3534.990	100 %	+20(Ref)	3534 989 995	0.0	0.000 000	0.000
	100 %	-30	3534 989 992	-3.7	0.000 000	-0.001
	100 %	-20	3534 989 994	-1.8	0.000 000	-0.001
	100 %	-10	3534 989 988	-7.5	0.000 000	-0.002
	100 %	0	3534 989 993	-2.3	0.000 000	-0.001
	100 %	+10	3534 989 996	0.5	0.000 000	0.000
	100 %	+30	3534 989 990	-5.7	0.000 000	-0.002
	100 %	+40	3534 989 988	-7.3	0.000 000	-0.002
	100 %	+50	3534 989 989	-6.2	0.000 000	-0.002
	Batt. Endpoint	+20	3534 989 995	-0.6	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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3470.010	100 %	+20(Ref)	3470 010 004	0.0	0.000 000	0.000
	100 %	-30	3470 010 002	-2.3	0.000 000	-0.001
	100 %	-20	3470 010 001	-2.9	0.000 000	-0.001
	100 %	-10	3470 010 003	-1.3	0.000 000	0.000
	100 %	0	3470 010 002	-2.2	0.000 000	-0.001
	100 %	+10	3470 010 005	1.1	0.000 000	0.000
	100 %	+30	3470 010 001	-3.1	0.000 000	-0.001
	100 %	+40	3470 010 000	-3.6	0.000 000	-0.001
	100 %	+50	3470 010 002	-1.7	0.000 000	0.000
	Batt. Endpoint	+20	3470 010 005	1.4	0.000 000	0.000
3529.980	100 %	+20(Ref)	3529 979 997	0.0	0.000 000	0.000
	100 %	-30	3529 979 994	-2.8	0.000 000	-0.001
	100 %	-20	3529 980 000	2.9	0.000 000	0.001
	100 %	-10	3529 979 997	-0.2	0.000 000	0.000
	100 %	0	3529 979 998	1.2	0.000 000	0.000
	100 %	+10	3529 979 998	0.4	0.000 000	0.000
	100 %	+30	3529 979 999	1.3	0.000 000	0.000
	100 %	+40	3529 979 995	-2.7	0.000 000	-0.001
	100 %	+50	3529 979 997	-0.6	0.000 000	0.000
	Batt. Endpoint	+20	3529 979 997	-0.2	0.000 000	0.000

- ▣ BandWidth: 50 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)	(%)	
3475.020	100 %	+20(Ref)	3475 020 001	0.0	0.000 000	0.000
	100 %	-30	3475 020 001	-0.3	0.000 000	0.000
	100 %	-20	3475 020 003	1.2	0.000 000	0.000
	100 %	-10	3475 020 004	2.7	0.000 000	0.001
	100 %	0	3475 020 005	3.3	0.000 000	0.001
	100 %	+10	3475 020 001	-0.3	0.000 000	0.000
	100 %	+30	3475 020 004	2.0	0.000 000	0.001
	100 %	+40	3475 020 001	-0.4	0.000 000	0.000
	100 %	+50	3475 020 001	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	3475 020 003	1.9	0.000 000	0.001
3525.000	100 %	+20(Ref)	3525 000 001	0.0	0.000 000	0.000
	100 %	-30	3525 000 001	0.4	0.000 000	0.000
	100 %	-20	3525 000 002	1.2	0.000 000	0.000
	100 %	-10	3525 000 001	-0.3	0.000 000	0.000
	100 %	0	3525 000 003	2.5	0.000 000	0.001
	100 %	+10	3524 999 999	-1.5	0.000 000	0.000
	100 %	+30	3524 999 999	-1.9	0.000 000	-0.001
	100 %	+40	3524 999 998	-3.2	0.000 000	-0.001
	100 %	+50	3524 999 999	-1.4	0.000 000	0.000
	Batt. Endpoint	+20	3524 999 998	-2.7	0.000 000	-0.001

- ▣ BandWidth: 60 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)	(%)	
3480.000	100 %	+20(Ref)	3480 000 002	0.0	0.000 000	0.000
	100 %	-30	3480 000 000	-1.8	0.000 000	-0.001
	100 %	-20	3480 000 003	1.3	0.000 000	0.000
	100 %	-10	3480 000 001	-0.7	0.000 000	0.000
	100 %	0	3479 999 999	-2.9	0.000 000	-0.001
	100 %	+10	3480 000 003	1.8	0.000 000	0.001
	100 %	+30	3480 000 002	0.3	0.000 000	0.000
	100 %	+40	3479 999 998	-3.1	0.000 000	-0.001
	100 %	+50	3479 999 998	-3.6	0.000 000	-0.001
	Batt. Endpoint	+20	3479 999 996	-5.1	0.000 000	-0.001
3519.990	100 %	+20(Ref)	3519 989 997	0.0	0.000 000	0.000
	100 %	-30	3519 989 994	-2.6	0.000 000	-0.001
	100 %	-20	3519 989 992	-4.7	0.000 000	-0.001
	100 %	-10	3519 989 991	-5.7	0.000 000	-0.002
	100 %	0	3519 989 994	-2.8	0.000 000	-0.001
	100 %	+10	3519 989 999	1.7	0.000 000	0.000
	100 %	+30	3519 989 996	-0.6	0.000 000	0.000
	100 %	+40	3519 989 998	1.3	0.000 000	0.000
	100 %	+50	3519 989 996	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	3519 989 997	-0.4	0.000 000	0.000

- ▣ BandWidth: 70 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)	(%)	
3485.010	100 %	+20(Ref)	3485 009 998	0.0	0.000 000	0.000
	100 %	-30	3485 010 001	2.9	0.000 000	0.001
	100 %	-20	3485 010 001	2.9	0.000 000	0.001
	100 %	-10	3485 009 994	-4.5	0.000 000	-0.001
	100 %	0	3485 009 997	-1.3	0.000 000	0.000
	100 %	+10	3485 010 000	1.8	0.000 000	0.001
	100 %	+30	3485 009 998	-0.1	0.000 000	0.000
	100 %	+40	3485 009 999	0.1	0.000 000	0.000
	100 %	+50	3485 009 999	0.2	0.000 000	0.000
	Batt. Endpoint	+20	3485 010 001	2.3	0.000 000	0.001
3514.980	100 %	+20(Ref)	3514 979 997	0.0	0.000 000	0.000
	100 %	-30	3514 979 996	-0.7	0.000 000	0.000
	100 %	-20	3514 979 993	-4.2	0.000 000	-0.001
	100 %	-10	3514 979 991	-5.6	0.000 000	-0.002
	100 %	0	3514 979 995	-2.4	0.000 000	-0.001
	100 %	+10	3514 979 994	-2.9	0.000 000	-0.001
	100 %	+30	3514 979 991	-5.5	0.000 000	-0.002
	100 %	+40	3514 979 993	-3.6	0.000 000	-0.001
	100 %	+50	3514 979 994	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	3514 979 992	-5.1	0.000 000	-0.001

- ▣ BandWidth: 80 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)	(%)	
3490.020	100 %	+20(Ref)	3490 020 003	0.0	0.000 000	0.000
	100 %	-30	3490 020 003	-0.3	0.000 000	0.000
	100 %	-20	3490 020 002	-1.5	0.000 000	0.000
	100 %	-10	3490 020 002	-1.0	0.000 000	0.000
	100 %	0	3490 020 005	2.1	0.000 000	0.001
	100 %	+10	3490 020 005	2.1	0.000 000	0.001
	100 %	+30	3490 020 004	0.5	0.000 000	0.000
	100 %	+40	3490 020 002	-0.9	0.000 000	0.000
	100 %	+50	3490 020 005	1.3	0.000 000	0.000
	Batt. Endpoint	+20	3490 020 004	0.7	0.000 000	0.000
3510.000	100 %	+20(Ref)	3510 000 000	0.0	0.000 000	0.000
	100 %	-30	3509 999 999	-1.0	0.000 000	0.000
	100 %	-20	3510 000 002	1.5	0.000 000	0.000
	100 %	-10	3509 999 998	-2.5	0.000 000	-0.001
	100 %	0	3509 999 998	-1.9	0.000 000	-0.001
	100 %	+10	3509 999 999	-0.9	0.000 000	0.000
	100 %	+30	3509 999 996	-4.1	0.000 000	-0.001
	100 %	+40	3509 999 996	-4.1	0.000 000	-0.001
	100 %	+50	3509 999 996	-4.1	0.000 000	-0.001
	Batt. Endpoint	+20	3510 000 000	0.4	0.000 000	0.000

- ▣ BandWidth: 90 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)	(%)	
3495.000	100 %	+20(Ref)	3495 000 001	0.0	0.000 000	0.000
	100 %	-30	3495 000 006	4.9	0.000 000	0.001
	100 %	-20	3495 000 006	4.6	0.000 000	0.001
	100 %	-10	3495 000 003	2.0	0.000 000	0.001
	100 %	0	3495 000 002	0.4	0.000 000	0.000
	100 %	+10	3495 000 000	-1.5	0.000 000	0.000
	100 %	+30	3495 000 002	1.1	0.000 000	0.000
	100 %	+40	3495 000 002	1.1	0.000 000	0.000
	100 %	+50	3495 000 004	2.9	0.000 000	0.001
	Batt. Endpoint	+20	3495 000 001	-0.4	0.000 000	0.000
3504.990	100 %	+20(Ref)	3504 989 994	0.0	0.000 000	0.000
	100 %	-30	3504 989 992	-1.8	0.000 000	-0.001
	100 %	-20	3504 989 991	-2.6	0.000 000	-0.001
	100 %	-10	3504 989 988	-6.5	0.000 000	-0.002
	100 %	0	3504 989 991	-2.7	0.000 000	-0.001
	100 %	+10	3504 989 993	-1.0	0.000 000	0.000
	100 %	+30	3504 989 991	-2.6	0.000 000	-0.001
	100 %	+40	3504 989 990	-4.5	0.000 000	-0.001
	100 %	+50	3504 989 993	-1.2	0.000 000	0.000
	Batt. Endpoint	+20	3504 989 988	-6.1	0.000 000	-0.002

- ▣ BandWidth: 100 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)	(%)	
3500.010	100 %	+20(Ref)	3500 009 996	0.0	0.000 000	0.000
	100 %	-30	3500 009 994	-1.7	0.000 000	0.000
	100 %	-20	3500 009 995	-0.8	0.000 000	0.000
	100 %	-10	3500 009 991	-4.3	0.000 000	-0.001
	100 %	0	3500 009 990	-5.5	0.000 000	-0.002
	100 %	+10	3500 009 993	-2.3	0.000 000	-0.001
	100 %	+30	3500 009 994	-1.3	0.000 000	0.000
	100 %	+40	3500 009 994	-1.4	0.000 000	0.000
	100 %	+50	3500 009 993	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	3500 009 996	0.4	0.000 000	0.000

9. TEST DATA (3700 MHz - 3980 MHz)

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
3705.00	Sub6 n77/ 10 MHz [30 kHz]	PI/2 BPSK	-23.45	15.14	12.08	3.08	H	< 1.00	0.259	24.14	1	22
		QPSK	-23.48	15.11	12.08	3.08	H		0.258	24.11		
		16-QAM	-24.80	13.79	12.08	3.08	H		0.190	22.79		
		64-QAM	-25.98	12.61	12.08	3.08	H		0.145	21.61		
		256-QAM	-28.30	10.29	12.08	3.08	H		0.085	19.29		
3840.00		PI/2 BPSK	-24.17	15.78	11.58	3.20	H		0.261	24.16	1	1
		QPSK	-24.51	15.44	11.58	3.20	H		0.241	23.82		
		16-QAM	-25.39	14.56	11.58	3.20	H		0.197	22.94		
		64-QAM	-26.73	13.22	11.58	3.20	H		0.145	21.60		
		256-QAM	-28.95	11.00	11.58	3.20	H		0.087	19.38		
3975.00		PI/2 BPSK	-25.45	14.46	11.70	3.25	H		0.195	22.91	1	1
		QPSK	-25.49	14.42	11.70	3.25	H		0.194	22.87		
		16-QAM	-26.67	13.24	11.70	3.25	H		0.148	21.69		
		64-QAM	-28.06	11.85	11.70	3.25	H		0.107	20.30		
		256-QAM	-30.30	9.61	11.70	3.25	H		0.064	18.06		

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
3707.51		PI/2 BPSK	-23.15	15.35	12.08	3.08	H	< 1.00	0.272	24.35	1	36
		QPSK	-23.16	15.34	12.08	3.08	H		0.272	24.34		
		16-QAM	-24.29	14.21	12.08	3.08	H		0.209	23.21		
		64-QAM	-25.75	12.75	12.08	3.08	H		0.150	21.75		
		256-QAM	-27.89	10.61	12.08	3.08	H		0.091	19.61		
3840.00	Sub6 n77/ 15 MHz [30 kHz]	PI/2 BPSK	-23.87	16.08	11.58	3.20	H	< 1.00	0.279	24.46	1	1
		QPSK	-23.88	16.07	11.58	3.20	H		0.279	24.45		
		16-QAM	-24.97	14.98	11.58	3.20	H		0.217	23.36		
		64-QAM	-26.47	13.48	11.58	3.20	H		0.153	21.86		
		256-QAM	-28.63	11.32	11.58	3.20	H		0.093	19.70		
3972.48		PI/2 BPSK	-25.18	14.68	11.69	3.25	H	< 1.00	0.205	23.12	1	1
		QPSK	-25.19	14.67	11.69	3.25	H		0.205	23.11		
		16-QAM	-26.39	13.47	11.69	3.25	H		0.155	21.91		
		64-QAM	-27.80	12.06	11.69	3.25	H		0.112	20.50		
		256-QAM	-30.05	9.81	11.69	3.25	H		0.067	18.25		

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
3710.01	Sub6 n77/ 20 MHz [30 kHz]	PI/2 BPSK	-23.17	15.33	12.08	3.08	H	< 1.00	0.271	24.33	1	49
		QPSK	-23.19	15.31	12.08	3.08	H		0.270	24.31		
		16-QAM	-24.33	14.17	12.08	3.08	H		0.208	23.17		
		64-QAM	-25.66	12.84	12.08	3.08	H		0.153	21.84		
		256-QAM	-28.02	10.48	12.08	3.08	H		0.089	19.48		
3840.00		PI/2 BPSK	-23.80	16.15	11.58	3.20	H		0.284	24.53	1	1
		QPSK	-23.82	16.13	11.58	3.20	H		0.282	24.51		
		16-QAM	-24.95	15.00	11.58	3.20	H		0.218	23.38		
		64-QAM	-26.33	13.62	11.58	3.20	H		0.159	22.00		
		256-QAM	-28.66	11.29	11.58	3.20	H		0.093	19.67		
3969.99		PI/2 BPSK	-25.15	14.71	11.69	3.25	H	0.207	23.15	1	1	
		QPSK	-25.17	14.69	11.69	3.25	H	0.206	23.13			
		16-QAM	-26.38	13.48	11.69	3.25	H	0.156	21.92			
		64-QAM	-27.73	12.13	11.69	3.25	H	0.114	20.57			
		256-QAM	-30.00	9.86	11.69	3.25	H	0.068	18.30			

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
3715.02	Sub6 n77/ 30 MHz [30 kHz]	PI/2 BPSK	-22.85	15.72	12.08	3.11	H	< 1.00	0.294	24.69	1	76
		QPSK	-22.99	15.58	12.08	3.11	H		0.285	24.55		
		16-QAM	-24.05	14.52	12.08	3.11	H		0.223	23.49		
		64-QAM	-25.45	13.12	12.08	3.11	H		0.162	22.09		
		256-QAM	-27.82	10.75	12.08	3.11	H		0.094	19.72		
3840.00		PI/2 BPSK	-23.52	16.43	11.58	3.20	H		0.303	24.81	1	1
		QPSK	-23.54	16.41	11.58	3.20	H		0.301	24.79		
		16-QAM	-24.79	15.16	11.58	3.20	H		0.226	23.54		
		64-QAM	-26.07	13.88	11.58	3.20	H		0.168	22.26		
		256-QAM	-28.38	11.57	11.58	3.20	H		0.099	19.95		
3964.98		PI/2 BPSK	-24.92	15.01	11.67	3.24	H		0.221	23.44	1	1
		QPSK	-24.94	14.99	11.67	3.24	H		0.220	23.42		
		16-QAM	-26.20	13.73	11.67	3.24	H		0.164	22.16		
		64-QAM	-27.53	12.40	11.67	3.24	H		0.121	20.83		
		256-QAM	-29.71	10.22	11.67	3.24	H		0.073	18.65		

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
3720.00	Sub6 n77/ 40 MHz [30 kHz]	PI/2 BPSK	-23.09	15.54	12.07	3.13	H	< 1.00	0.281	24.48	1	104
		QPSK	-23.11	15.52	12.07	3.13	H		0.279	24.46		
		16-QAM	-24.31	14.32	12.07	3.13	H		0.212	23.26		
		64-QAM	-25.58	13.05	12.07	3.13	H		0.158	21.99		
		256-QAM	-27.85	10.78	12.07	3.13	H		0.094	19.72		
3840.00		PI/2 BPSK	-23.51	16.44	11.58	3.20	H		0.303	24.82	1	1
		QPSK	-23.56	16.39	11.58	3.20	H		0.300	24.77		
		16-QAM	-24.73	15.22	11.58	3.20	H		0.229	23.60		
		64-QAM	-26.06	13.89	11.58	3.20	H		0.169	22.27		
		256-QAM	-28.38	11.57	11.58	3.20	H		0.099	19.95		
3960.00		PI/2 BPSK	-24.92	15.08	11.65	3.24	H		0.223	23.49	1	1
		QPSK	-25.05	14.95	11.65	3.24	H		0.217	23.36		
		16-QAM	-26.05	13.95	11.65	3.24	H		0.172	22.36		
		64-QAM	-27.53	12.47	11.65	3.24	H		0.123	20.88		
		256-QAM	-29.77	10.23	11.65	3.24	H		0.073	18.64		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3725.10	Sub6 n77/ 50 MHz [30 kHz]	PI/2 BPSK	-23.08	15.68	12.06	3.15	H	< 1.00	0.288	24.59	1	131
		QPSK	-23.12	15.64	12.06	3.15	H		0.285	24.55		
		16-QAM	-24.27	14.49	12.06	3.15	H		0.219	23.40		
		64-QAM	-25.60	13.16	12.06	3.15	H		0.161	22.07		
		256-QAM	-27.83	10.93	12.06	3.15	H		0.096	19.84		
3840.00		PI/2 BPSK	-23.20	16.75	11.58	3.20	H		0.326	25.13	1	1
		QPSK	-23.25	16.70	11.58	3.20	H		0.322	25.08		
		16-QAM	-24.44	15.51	11.58	3.20	H		0.245	23.89		
		64-QAM	-25.80	14.15	11.58	3.20	H		0.179	22.53		
		256-QAM	-27.93	12.02	11.58	3.20	H		0.110	20.40		
3954.99		PI/2 BPSK	-24.76	15.27	11.63	3.23	H	0.233	23.67	1	1	
		QPSK	-24.80	15.23	11.63	3.23	H	0.231	23.63			
		16-QAM	-25.86	14.17	11.63	3.23	H	0.181	22.57			
		64-QAM	-27.33	12.70	11.63	3.23	H	0.129	21.10			
		256-QAM	-29.53	10.50	11.63	3.23	H	0.078	18.90			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3730.02	Sub6 n77/ 60 MHz [30 kHz]	PI/2 BPSK	-23.31	15.59	12.04	3.17	H	< 1.00	0.279	24.46	1	160
		QPSK	-23.32	15.58	12.04	3.17	H		0.279	24.45		
		16-QAM	-24.43	14.47	12.04	3.17	H		0.216	23.34		
		64-QAM	-25.88	13.02	12.04	3.17	H		0.155	21.89		
		256-QAM	-28.12	10.78	12.04	3.17	H		0.092	19.65		
3840.00		PI/2 BPSK	-23.29	16.66	11.58	3.20	H		0.319	25.04	1	1
		QPSK	-23.30	16.65	11.58	3.20	H		0.318	25.03		
		16-QAM	-24.36	15.59	11.58	3.20	H		0.249	23.97		
		64-QAM	-25.83	14.12	11.58	3.20	H		0.178	22.50		
		256-QAM	-28.05	11.90	11.58	3.20	H		0.107	20.28		
3949.98		PI/2 BPSK	-24.44	15.61	11.61	3.22	H		0.251	24.00	1	1
		QPSK	-24.46	15.59	11.61	3.22	H		0.250	23.98		
		16-QAM	-25.65	14.40	11.61	3.22	H		0.190	22.79		
		64-QAM	-27.00	13.05	11.61	3.22	H		0.139	21.44		
		256-QAM	-29.28	10.77	11.61	3.22	H		0.082	19.16		

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
3735.00	Sub6 n77/ 70 MHz [30 kHz]	PI/2 BPSK	-23.24	15.78	12.02	3.18	H	< 1.00	0.290	24.62	1	187
		QPSK	-23.25	15.77	12.02	3.18	H		0.289	24.61		
		16-QAM	-24.40	14.62	12.02	3.18	H		0.222	23.46		
		64-QAM	-25.64	13.38	12.02	3.18	H		0.167	22.22		
		256-QAM	-27.89	11.13	12.02	3.18	H		0.099	19.97		
3840.00		PI/2 BPSK	-23.18	16.77	11.58	3.20	H		0.327	25.15	1	1
		QPSK	-23.20	16.75	11.58	3.20	H		0.326	25.13		
		16-QAM	-24.26	15.69	11.58	3.20	H		0.255	24.07		
		64-QAM	-25.77	14.18	11.58	3.20	H		0.180	22.56		
		256-QAM	-27.97	11.98	11.58	3.20	H		0.109	20.36		
3945.00		PI/2 BPSK	-24.32	15.71	11.60	3.23	H		0.256	24.08	1	1
		QPSK	-24.33	15.70	11.60	3.23	H		0.255	24.07		
		16-QAM	-25.36	14.67	11.60	3.23	H		0.201	23.04		
		64-QAM	-26.87	13.16	11.60	3.23	H		0.142	21.53		
		256-QAM	-29.11	10.92	11.60	3.23	H		0.085	19.29		

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
3740.01	Sub6 n77/ 80 MHz [30 kHz]	PI/2 BPSK	-23.00	16.15	12.00	3.19	H	< 1.00	0.313	24.96	1	215
		QPSK	-23.03	16.12	12.00	3.19	H		0.311	24.93		
		16-QAM	-24.17	14.98	12.00	3.19	H		0.239	23.79		
		64-QAM	-25.46	13.69	12.00	3.19	H		0.178	22.50		
		256-QAM	-27.78	11.37	12.00	3.19	H		0.104	20.18		
3840.00		PI/2 BPSK	-23.02	16.93	11.58	3.20	H		0.340	25.31	1	1
		QPSK	-23.03	16.92	11.58	3.20	H		0.339	25.30		
		16-QAM	-24.14	15.81	11.58	3.20	H		0.262	24.19		
		64-QAM	-25.51	14.44	11.58	3.20	H		0.191	22.82		
		256-QAM	-27.86	12.09	11.58	3.20	H		0.111	20.47		
3939.99		PI/2 BPSK	-24.20	15.80	11.58	3.23	H	0.260	24.15	1	1	
		QPSK	-24.22	15.78	11.58	3.23	H	0.259	24.13			
		16-QAM	-25.42	14.58	11.58	3.23	H	0.196	22.93			
		64-QAM	-26.66	13.34	11.58	3.23	H	0.148	21.69			
		256-QAM	-28.93	11.07	11.58	3.23	H	0.088	19.42			

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
3745.02	Sub6 n77/ 90 MHz [30 kHz]	PI/2 BPSK	-22.93	16.24	11.97	3.18	H	< 1.00	0.318	25.03	1	243
		QPSK	-22.95	16.22	11.97	3.18	H		0.317	25.01		
		16-QAM	-24.22	14.95	11.97	3.18	H		0.237	23.74		
		64-QAM	-25.50	13.67	11.97	3.18	H		0.176	22.46		
		256-QAM	-27.79	11.38	11.97	3.18	H		0.104	20.17		
3840.00		PI/2 BPSK	-22.91	17.04	11.58	3.20	H		0.348	25.42	1	1
		QPSK	-22.93	17.02	11.58	3.20	H		0.347	25.40		
		16-QAM	-24.11	15.84	11.58	3.20	H		0.264	24.22		
		64-QAM	-25.48	14.47	11.58	3.20	H		0.193	22.85		
		256-QAM	-27.74	12.21	11.58	3.20	H		0.115	20.59		
3934.98		PI/2 BPSK	-24.24	15.71	11.56	3.24	H		0.253	24.03	1	1
		QPSK	-24.25	15.70	11.56	3.24	H		0.252	24.02		
		16-QAM	-25.49	14.46	11.56	3.24	H		0.190	22.78		
		64-QAM	-26.80	13.15	11.56	3.24	H		0.140	21.47		
		256-QAM	-29.08	10.87	11.56	3.24	H		0.083	19.19		

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
3750.00	Sub6 n77/ 100 MHz [30 kHz]	PI/2 BPSK	-23.23	15.96	11.95	3.17	H	< 1.00	0.298	24.74	1	271
		QPSK	-23.36	15.83	11.95	3.17	H		0.289	24.61		
		16-QAM	-24.40	14.79	11.95	3.17	H		0.228	23.57		
		64-QAM	-25.72	13.47	11.95	3.17	H		0.168	22.25		
		256-QAM	-28.03	11.16	11.95	3.17	H		0.099	19.94		
3840.00		PI/2 BPSK	-23.25	16.70	11.58	3.20	H		0.322	25.08	1	1
		QPSK	-23.27	16.68	11.58	3.20	H		0.321	25.06		
		16-QAM	-24.36	15.59	11.58	3.20	H		0.249	23.97		
		64-QAM	-25.62	14.33	11.58	3.20	H		0.187	22.71		
		256-QAM	-27.90	12.05	11.58	3.20	H		0.110	20.43		
3930.00		PI/2 BPSK	-24.52	15.38	11.54	3.26	H		0.232	23.66	1	1
		QPSK	-24.53	15.37	11.54	3.26	H		0.232	23.65		
		16-QAM	-25.62	14.28	11.54	3.26	H		0.180	22.56		
		64-QAM	-27.02	12.88	11.54	3.26	H		0.131	21.16		
		256-QAM	-29.19	10.71	11.54	3.26	H		0.079	18.99		

9.2 RADIATED SPURIOUS EMISSIONS

■ NR Band:	<u>N77</u>
■ Bandwidth:	<u>90 MHz</u>
■ Modulation:	<u>PI/2 BPSK</u>
■ Distance:	<u>1 meters</u>
■ SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
649668 (3745.02)	7 490.04	-63.01	11.48	-55.54	4.61	H	-48.67	-13.00	1	243
	11 235.06	-62.23	12.06	-51.42	5.82	H	-45.18	-13.00		
	14 980.08	-58.60	14.24	-52.20	6.79	H	-44.75	-13.00		
656000 (3840.00)	7 680.00	-62.48	11.47	-55.17	4.70	H	-48.40	-13.00	1	1
	11 520.00	-62.48	12.34	-51.17	5.87	H	-44.70	-13.00		
	15 360.00	-58.23	15.37	-51.65	6.88	H	-43.16	-13.00		
662332 (3934.98)	7 869.96	-62.62	11.06	-54.80	4.75	H	-48.49	-13.00	1	1
	11 804.94	-62.68	12.66	-52.75	5.97	H	-46.06	-13.00		
	15 739.92	-58.25	16.08	-51.14	6.93	H	-41.99	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77	10 MHz	3840.00	BPSK	Full RB	0	4.11
			QPSK			5.74
			16-QAM			6.64
			64-QAM			6.63
			256-QAM			6.85
	15 MHz		BPSK			4.22
			QPSK			5.48
			16-QAM			6.32
			64-QAM			6.57
			256-QAM			6.59
	20 MHz		BPSK			4.11
			QPSK			5.76
			16-QAM			6.60
			64-QAM			6.86
			256-QAM			6.43
	30 MHz		BPSK			4.12
			QPSK			5.71
			16-QAM			6.37
			64-QAM			6.50
			256-QAM			6.65
	40 MHz		BPSK			4.34
			QPSK			5.56
			16-QAM			6.40
			64-QAM			6.58
			256-QAM			6.68
	50 MHz		BPSK			4.42
			QPSK			5.79
			16-QAM			6.48
			64-QAM			6.62
			256-QAM			6.67

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77	60 MHz	3840.00	BPSK	Full RB	0	4.39
			QPSK			5.70
			16-QAM			6.43
			64-QAM			6.53
			256-QAM			6.63
	70 MHz		BPSK			4.59
			QPSK			5.84
			16-QAM			6.56
			64-QAM			6.70
			256-QAM			6.70
	80 MHz		BPSK			4.46
			QPSK			5.76
			16-QAM			6.49
			64-QAM			6.70
			256-QAM			6.66
	90 MHz		BPSK			4.92
			QPSK			5.96
			16-QAM			6.53
			64-QAM			6.73
			256-QAM			6.72
	100 MHz		BPSK			4.61
			QPSK			5.82
			16-QAM			6.45
			64-QAM			6.67
			256-QAM			6.66

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 392 ~ 446.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77	10 MHz	3840.00	BPSK	Full RB	0	8.6195
			QPSK			8.6567
			16-QAM			8.5906
			64-QAM			8.6474
			256-QAM			8.6464
	15 MHz		BPSK			12.984
			QPSK			12.954
			16-QAM			12.988
			64-QAM			12.874
			256-QAM			13.024
	20 MHz		BPSK			17.877
			QPSK			17.974
			16-QAM			17.950
			64-QAM			17.945
			256-QAM			17.902
	30 MHz		BPSK			26.940
			QPSK			26.934
			16-QAM			26.884
			64-QAM			26.945
			256-QAM			26.920
	40 MHz		BPSK			35.770
			QPSK			35.818
			16-QAM			35.875
			64-QAM			35.766
			256-QAM			35.849
	50 MHz		BPSK			45.837
			QPSK			45.887
			16-QAM			45.799
			64-QAM			45.860
			256-QAM			45.885

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77	60 MHz	3840.00	BPSK	Full RB	0	57.925
			QPSK			58.057
			16-QAM			57.975
			64-QAM			57.972
			256-QAM			58.040
	70 MHz		BPSK			64.432
			QPSK			64.441
			16-QAM			64.495
			64-QAM			64.415
			256-QAM			64.538
	80 MHz		BPSK			77.369
			QPSK			77.391
			16-QAM			77.334
			64-QAM			77.255
			256-QAM			77.540
	90 MHz		BPSK			87.012
			QPSK			87.043
			16-QAM			86.969
			64-QAM			86.999
			256-QAM			86.935
	100 MHz		BPSK			96.613
			QPSK			96.531
			16-QAM			96.814
			64-QAM			96.861
			256-QAM			96.459

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 447 ~ 501.

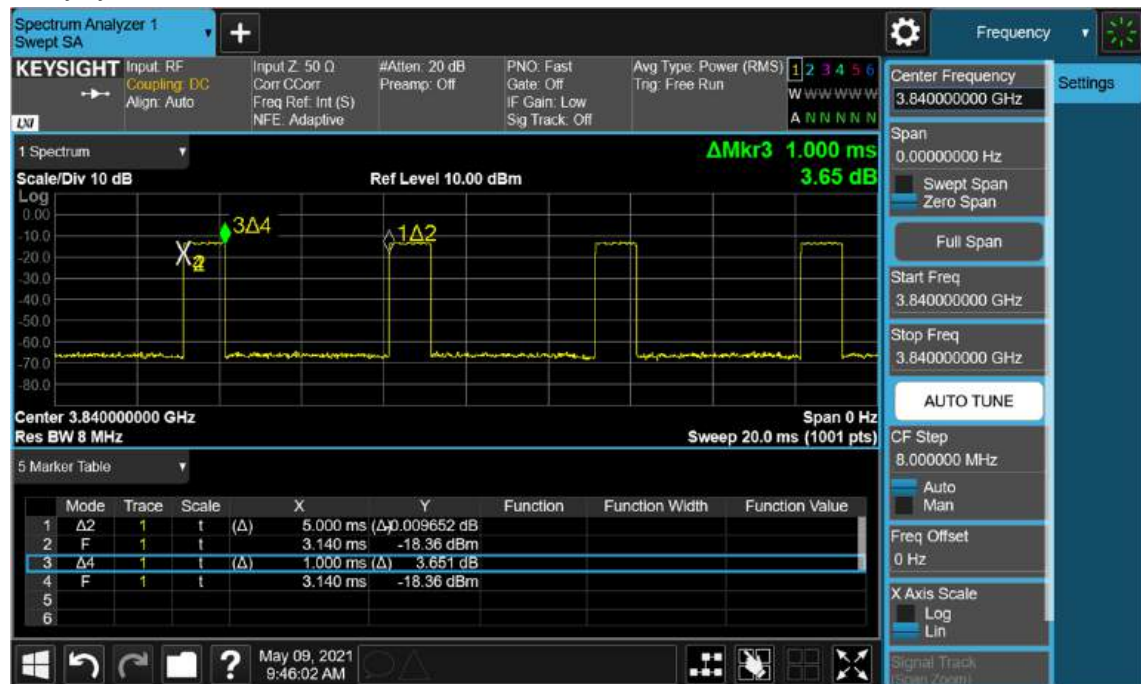
9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n77	10	3705.000	8.2712	37.805	-74.341	-36.536	-13.00
		3840.000	8.0185	37.805	-74.042	-36.237	
		3975.000	6.0429	37.805	-74.324	-36.519	
	15	3707.520	9.1600	37.805	-74.666	-36.861	
		3840.000	8.8923	37.805	-74.076	-36.271	
		3972.480	9.1496	37.805	-74.842	-37.037	
	20	3710.010	8.0160	37.805	-74.703	-36.898	
		3840.000	9.9626	37.805	-74.576	-36.771	
		3969.990	9.7074	37.805	-73.824	-36.019	
	30	3715.020	9.6645	37.805	-74.496	-36.691	
		3840.000	9.4098	37.805	-73.858	-36.053	
		3964.980	9.1391	37.805	-74.717	-36.912	
	40	3720.000	5.1885	37.805	-74.239	-36.434	
		3840.000	9.1192	37.805	-73.954	-36.149	
		3960.000	6.0035	37.805	-74.114	-36.309	
	50	3725.010	8.2602	37.805	-74.390	-36.585	
		3840.000	9.4337	37.805	-73.418	-35.613	
		3954.990	8.2607	37.805	-74.133	-36.328	
	60	3730.020	8.8544	37.805	-74.392	-36.587	
		3840.000	8.3041	37.805	-74.190	-36.385	
		3949.980	9.9751	37.805	-74.187	-36.382	
	70	3735.000	9.7074	37.805	-74.993	-37.188	
		3840.000	8.2717	37.805	-74.690	-36.885	
		3945.000	9.9492	37.805	-74.202	-36.397	
	80	3740.010	8.2812	37.805	-74.907	-37.102	
		3840.000	9.1471	37.805	-74.714	-36.909	
		3939.990	6.0329	37.805	-74.146	-36.341	
	90	3745.020	8.5668	37.805	-74.541	-36.736	
		3840.000	9.4611	37.805	-74.439	-36.634	
		3934.980	9.1346	37.805	-74.055	-36.250	
	100	3750.000	8.3051	37.805	-74.450	-36.645	
		3840.000	9.7428	37.805	-74.793	-36.988	
		3930.000	9.1281	37.805	-74.909	-37.104	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 502 ~ 567.
2. Duty Cycle factor already applied on the factor.

- Duty Cycle Factor(dB) = 6.990



- 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 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 568 ~ 699.
2. 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) = 6.990

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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3705.000	100 %	+20(Ref)	3704 999 995	0.0	0.000 000	0.000
	100 %	-30	3704 999 992	-3.7	0.000 000	-0.001
	100 %	-20	3704 999 990	-5.2	0.000 000	-0.001
	100 %	-10	3704 999 992	-3.0	0.000 000	-0.001
	100 %	0	3704 999 995	-0.6	0.000 000	0.000
	100 %	+10	3704 999 988	-7.6	0.000 000	-0.002
	100 %	+30	3704 999 996	0.7	0.000 000	0.000
	100 %	+40	3704 999 989	-6.6	0.000 000	-0.002
	100 %	+50	3704 999 988	-7.5	0.000 000	-0.002
	Batt. Endpoint	+20	3704 999 992	-3.0	0.000 000	-0.001
3975.000	100 %	+20(Ref)	3974 999 999	0.0	0.000 000	0.000
	100 %	-30	3975 000 001	2.4	0.000 000	0.001
	100 %	-20	3974 999 998	-0.9	0.000 000	0.000
	100 %	-10	3974 999 996	-2.9	0.000 000	-0.001
	100 %	0	3974 999 994	-4.6	0.000 000	-0.001
	100 %	+10	3974 999 994	-5.0	0.000 000	-0.001
	100 %	+30	3974 999 994	-5.1	0.000 000	-0.001
	100 %	+40	3975 000 000	1.0	0.000 000	0.000
	100 %	+50	3974 999 997	-1.4	0.000 000	0.000
	Batt. Endpoint	+20	3974 999 996	-3.1	0.000 000	-0.001

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3707.520	100 %	+20(Ref)	3707 519 997	0.0	0.000 000	0.000
	100 %	-30	3707 519 998	0.6	0.000 000	0.000
	100 %	-20	3707 519 991	-6.5	0.000 000	-0.002
	100 %	-10	3707 519 997	0.1	0.000 000	0.000
	100 %	0	3707 519 995	-2.6	0.000 000	-0.001
	100 %	+10	3707 519 998	1.0	0.000 000	0.000
	100 %	+30	3707 519 997	-0.3	0.000 000	0.000
	100 %	+40	3707 519 996	-1.6	0.000 000	0.000
	100 %	+50	3707 519 995	-1.9	0.000 000	-0.001
	Batt. Endpoint	+20	3707 519 996	-1.3	0.000 000	0.000
3972.480	100 %	+20(Ref)	3972 479 995	0.0	0.000 000	0.000
	100 %	-30	3972 479 996	0.8	0.000 000	0.000
	100 %	-20	3972 479 994	-1.4	0.000 000	0.000
	100 %	-10	3972 479 990	-5.7	0.000 000	-0.001
	100 %	0	3972 479 990	-5.9	0.000 000	-0.001
	100 %	+10	3972 479 994	-1.8	0.000 000	0.000
	100 %	+30	3972 479 991	-4.5	0.000 000	-0.001
	100 %	+40	3972 479 993	-2.9	0.000 000	-0.001
	100 %	+50	3972 479 991	-4.2	0.000 000	-0.001
	Batt. Endpoint	+20	3972 479 993	-2.2	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)	(%)	
3710.010	100 %	+20(Ref)	3710 009 998	0.0	0.000 000	0.000
	100 %	-30	3710 009 998	-0.7	0.000 000	0.000
	100 %	-20	3710 009 999	1.0	0.000 000	0.000
	100 %	-10	3710 009 999	0.5	0.000 000	0.000
	100 %	0	3710 009 997	-0.9	0.000 000	0.000
	100 %	+10	3710 009 997	-1.2	0.000 000	0.000
	100 %	+30	3710 009 997	-1.7	0.000 000	0.000
	100 %	+40	3710 009 996	-1.9	0.000 000	-0.001
	100 %	+50	3710 009 993	-5.3	0.000 000	-0.001
	Batt. Endpoint	+20	3710 009 997	-0.9	0.000 000	0.000
3969.990	100 %	+20(Ref)	3969 989 995	0.0	0.000 000	0.000
	100 %	-30	3969 989 990	-5.1	0.000 000	-0.001
	100 %	-20	3969 989 993	-1.5	0.000 000	0.000
	100 %	-10	3969 989 990	-4.5	0.000 000	-0.001
	100 %	0	3969 989 997	2.0	0.000 000	0.001
	100 %	+10	3969 989 993	-1.6	0.000 000	0.000
	100 %	+30	3969 989 991	-4.2	0.000 000	-0.001
	100 %	+40	3969 989 992	-2.8	0.000 000	-0.001
	100 %	+50	3969 989 993	-1.9	0.000 000	0.000
	Batt. Endpoint	+20	3969 989 990	-4.6	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)	(%)	
3715.020	100 %	+20(Ref)	3715 019 998	0.0	0.000 000	0.000
	100 %	-30	3715 020 000	1.7	0.000 000	0.000
	100 %	-20	3715 019 997	-1.1	0.000 000	0.000
	100 %	-10	3715 019 997	-1.5	0.000 000	0.000
	100 %	0	3715 019 996	-2.2	0.000 000	-0.001
	100 %	+10	3715 019 997	-1.7	0.000 000	0.000
	100 %	+30	3715 019 997	-1.0	0.000 000	0.000
	100 %	+40	3715 019 997	-1.3	0.000 000	0.000
	100 %	+50	3715 019 997	-1.0	0.000 000	0.000
	Batt. Endpoint	+20	3715 020 000	2.2	0.000 000	0.001
3964.980	100 %	+20(Ref)	3964 979 994	0.0	0.000 000	0.000
	100 %	-30	3964 979 990	-4.1	0.000 000	-0.001
	100 %	-20	3964 979 992	-2.1	0.000 000	-0.001
	100 %	-10	3964 979 988	-5.6	0.000 000	-0.001
	100 %	0	3964 979 989	-5.0	0.000 000	-0.001
	100 %	+10	3964 979 993	-1.1	0.000 000	0.000
	100 %	+30	3964 979 992	-1.9	0.000 000	0.000
	100 %	+40	3964 979 991	-2.5	0.000 000	-0.001
	100 %	+50	3964 979 989	-4.9	0.000 000	-0.001
	Batt. Endpoint	+20	3964 979 988	-5.5	0.000 000	-0.001

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3720.000	100 %	+20(Ref)	3719 999 996	0.0	0.000 000	0.000
	100 %	-30	3719 999 996	0.1	0.000 000	0.000
	100 %	-20	3719 999 996	0.3	0.000 000	0.000
	100 %	-10	3719 999 993	-3.2	0.000 000	-0.001
	100 %	0	3719 999 994	-1.9	0.000 000	-0.001
	100 %	+10	3719 999 998	1.7	0.000 000	0.000
	100 %	+30	3719 999 991	-5.5	0.000 000	-0.001
	100 %	+40	3719 999 991	-5.4	0.000 000	-0.001
	100 %	+50	3719 999 990	-5.8	0.000 000	-0.002
	Batt. Endpoint	+20	3719 999 991	-5.3	0.000 000	-0.001
3960.000	100 %	+20(Ref)	3960 000 001	0.0	0.000 000	0.000
	100 %	-30	3960 000 003	2.8	0.000 000	0.001
	100 %	-20	3959 999 999	-2.0	0.000 000	-0.001
	100 %	-10	3959 999 998	-2.7	0.000 000	-0.001
	100 %	0	3959 999 999	-1.3	0.000 000	0.000
	100 %	+10	3959 999 998	-2.8	0.000 000	-0.001
	100 %	+30	3959 999 999	-1.3	0.000 000	0.000
	100 %	+40	3959 999 999	-2.1	0.000 000	-0.001
	100 %	+50	3959 999 996	-4.6	0.000 000	-0.001
	Batt. Endpoint	+20	3960 000 000	-0.9	0.000 000	0.000

- ▣ BandWidth: 50 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)	(%)	
3725.010	100 %	+20(Ref)	3725 009 997	0.0	0.000 000	0.000
	100 %	-30	3725 009 994	-3.0	0.000 000	-0.001
	100 %	-20	3725 009 996	-0.4	0.000 000	0.000
	100 %	-10	3725 009 993	-3.3	0.000 000	-0.001
	100 %	0	3725 009 991	-6.1	0.000 000	-0.002
	100 %	+10	3725 009 996	-0.6	0.000 000	0.000
	100 %	+30	3725 009 991	-5.2	0.000 000	-0.001
	100 %	+40	3725 009 993	-4.1	0.000 000	-0.001
	100 %	+50	3725 009 996	-0.2	0.000 000	0.000
	Batt. Endpoint	+20	3725 009 995	-1.8	0.000 000	0.000
3954.990	100 %	+20(Ref)	3954 989 999	0.0	0.000 000	0.000
	100 %	-30	3954 989 996	-2.9	0.000 000	-0.001
	100 %	-20	3954 989 993	-5.4	0.000 000	-0.001
	100 %	-10	3954 989 992	-7.1	0.000 000	-0.002
	100 %	0	3954 989 994	-4.5	0.000 000	-0.001
	100 %	+10	3954 989 998	-0.9	0.000 000	0.000
	100 %	+30	3954 989 994	-4.9	0.000 000	-0.001
	100 %	+40	3954 989 999	-0.2	0.000 000	0.000
	100 %	+50	3954 989 996	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3954 989 997	-2.0	0.000 000	-0.001

- ▣ BandWidth: 60 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)	(%)	
3730.020	100 %	+20(Ref)	3730 019 997	0.0	0.000 000	0.000
	100 %	-30	3730 019 994	-3.0	0.000 000	-0.001
	100 %	-20	3730 019 994	-3.0	0.000 000	-0.001
	100 %	-10	3730 019 995	-1.5	0.000 000	0.000
	100 %	0	3730 019 995	-1.4	0.000 000	0.000
	100 %	+10	3730 019 997	0.0	0.000 000	0.000
	100 %	+30	3730 019 996	-1.0	0.000 000	0.000
	100 %	+40	3730 019 995	-2.2	0.000 000	-0.001
	100 %	+50	3730 019 997	0.3	0.000 000	0.000
	Batt. Endpoint	+20	3730 019 999	1.8	0.000 000	0.000
3949.980	100 %	+20(Ref)	3949 979 995	0.0	0.000 000	0.000
	100 %	-30	3949 979 996	0.8	0.000 000	0.000
	100 %	-20	3949 979 995	-0.1	0.000 000	0.000
	100 %	-10	3949 979 996	0.8	0.000 000	0.000
	100 %	0	3949 979 988	-6.6	0.000 000	-0.002
	100 %	+10	3949 979 990	-5.4	0.000 000	-0.001
	100 %	+30	3949 979 987	-7.8	0.000 000	-0.002
	100 %	+40	3949 979 992	-2.7	0.000 000	-0.001
	100 %	+50	3949 979 988	-7.2	0.000 000	-0.002
	Batt. Endpoint	+20	3949 979 993	-1.8	0.000 000	0.000

- ▣ BandWidth: 70 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)	(%)	
3735.000	100 %	+20(Ref)	3735 000 000	0.0	0.000 000	0.000
	100 %	-30	3735 000 000	0.4	0.000 000	0.000
	100 %	-20	3734 999 997	-3.2	0.000 000	-0.001
	100 %	-10	3735 000 000	-0.3	0.000 000	0.000
	100 %	0	3735 000 001	1.0	0.000 000	0.000
	100 %	+10	3734 999 998	-1.8	0.000 000	0.000
	100 %	+30	3734 999 996	-3.7	0.000 000	-0.001
	100 %	+40	3735 000 001	1.5	0.000 000	0.000
	100 %	+50	3734 999 996	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3734 999 997	-2.4	0.000 000	-0.001
3945.000	100 %	+20(Ref)	3944 999 997	0.0	0.000 000	0.000
	100 %	-30	3944 999 996	-0.8	0.000 000	0.000
	100 %	-20	3944 999 996	-1.0	0.000 000	0.000
	100 %	-10	3944 999 994	-3.1	0.000 000	-0.001
	100 %	0	3944 999 995	-1.9	0.000 000	0.000
	100 %	+10	3944 999 989	-7.7	0.000 000	-0.002
	100 %	+30	3944 999 992	-5.1	0.000 000	-0.001
	100 %	+40	3944 999 994	-3.2	0.000 000	-0.001
	100 %	+50	3944 999 990	-6.5	0.000 000	-0.002
	Batt. Endpoint	+20	3944 999 995	-1.9	0.000 000	0.000

- ▣ BandWidth: 80 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)	(%)	
3740.010	100 %	+20(Ref)	3740 009 997	0.0	0.000 000	0.000
	100 %	-30	3740 009 993	-3.3	0.000 000	-0.001
	100 %	-20	3740 009 992	-5.0	0.000 000	-0.001
	100 %	-10	3740 010 000	2.8	0.000 000	0.001
	100 %	0	3740 009 991	-6.0	0.000 000	-0.002
	100 %	+10	3740 009 997	0.1	0.000 000	0.000
	100 %	+30	3740 009 994	-3.0	0.000 000	-0.001
	100 %	+40	3740 009 994	-3.0	0.000 000	-0.001
	100 %	+50	3740 009 990	-6.6	0.000 000	-0.002
	Batt. Endpoint	+20	3740 009 998	1.6	0.000 000	0.000
3939.990	100 %	+20(Ref)	3939 990 000	0.0	0.000 000	0.000
	100 %	-30	3939 989 997	-3.4	0.000 000	-0.001
	100 %	-20	3939 989 999	-1.5	0.000 000	0.000
	100 %	-10	3939 989 997	-2.9	0.000 000	-0.001
	100 %	0	3939 989 995	-5.1	0.000 000	-0.001
	100 %	+10	3939 989 992	-8.6	0.000 000	-0.002
	100 %	+30	3939 989 995	-4.6	0.000 000	-0.001
	100 %	+40	3939 989 991	-9.0	0.000 000	-0.002
	100 %	+50	3939 989 997	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3939 989 997	-2.9	0.000 000	-0.001

- ▣ BandWidth: 90 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)	(%)	
3745.020	100 %	+20(Ref)	3745 019 996	0.0	0.000 000	0.000
	100 %	-30	3745 019 996	-0.5	0.000 000	0.000
	100 %	-20	3745 019 996	-0.2	0.000 000	0.000
	100 %	-10	3745 019 994	-2.7	0.000 000	-0.001
	100 %	0	3745 019 993	-2.8	0.000 000	-0.001
	100 %	+10	3745 019 992	-3.9	0.000 000	-0.001
	100 %	+30	3745 019 992	-4.6	0.000 000	-0.001
	100 %	+40	3745 019 999	2.5	0.000 000	0.001
	100 %	+50	3745 019 997	1.0	0.000 000	0.000
	Batt. Endpoint	+20	3745 019 991	-5.4	0.000 000	-0.001
3934.980	100 %	+20(Ref)	3934 979 997	0.0	0.000 000	0.000
	100 %	-30	3934 979 993	-3.2	0.000 000	-0.001
	100 %	-20	3934 979 995	-1.2	0.000 000	0.000
	100 %	-10	3934 979 993	-3.4	0.000 000	-0.001
	100 %	0	3934 979 994	-3.0	0.000 000	-0.001
	100 %	+10	3934 979 990	-6.8	0.000 000	-0.002
	100 %	+30	3934 979 992	-4.6	0.000 000	-0.001
	100 %	+40	3934 979 992	-4.5	0.000 000	-0.001
	100 %	+50	3934 979 999	2.1	0.000 000	0.001
	Batt. Endpoint	+20	3934 979 998	1.0	0.000 000	0.000

- ▣ BandWidth: 100 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)	(%)	
3750.000	100 %	+20(Ref)	3749 999 999	0.0	0.000 000	0.000
	100 %	-30	3749 999 996	-3.2	0.000 000	-0.001
	100 %	-20	3749 999 992	-7.6	0.000 000	-0.002
	100 %	-10	3749 999 997	-2.7	0.000 000	-0.001
	100 %	0	3749 999 998	-1.1	0.000 000	0.000
	100 %	+10	3749 999 999	-0.8	0.000 000	0.000
	100 %	+30	3749 999 994	-5.2	0.000 000	-0.001
	100 %	+40	3749 999 996	-3.4	0.000 000	-0.001
	100 %	+50	3749 999 995	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3749 999 997	-2.2	0.000 000	-0.001
3930.000	100 %	+20(Ref)	3929 999 997	0.0	0.000 000	0.000
	100 %	-30	3929 999 995	-2.2	0.000 000	-0.001
	100 %	-20	3929 999 990	-6.8	0.000 000	-0.002
	100 %	-10	3929 999 992	-5.5	0.000 000	-0.001
	100 %	0	3929 999 994	-2.7	0.000 000	-0.001
	100 %	+10	3929 999 997	-0.3	0.000 000	0.000
	100 %	+30	3929 999 992	-5.2	0.000 000	-0.001
	100 %	+40	3929 999 995	-2.6	0.000 000	-0.001
	100 %	+50	3929 999 993	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3929 999 995	-1.8	0.000 000	0.000

10. TEST PLOTS(3450 MHz - 3550 MHz)

n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_40 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_100 M_PAR_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_10 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_BPSK_FullRB



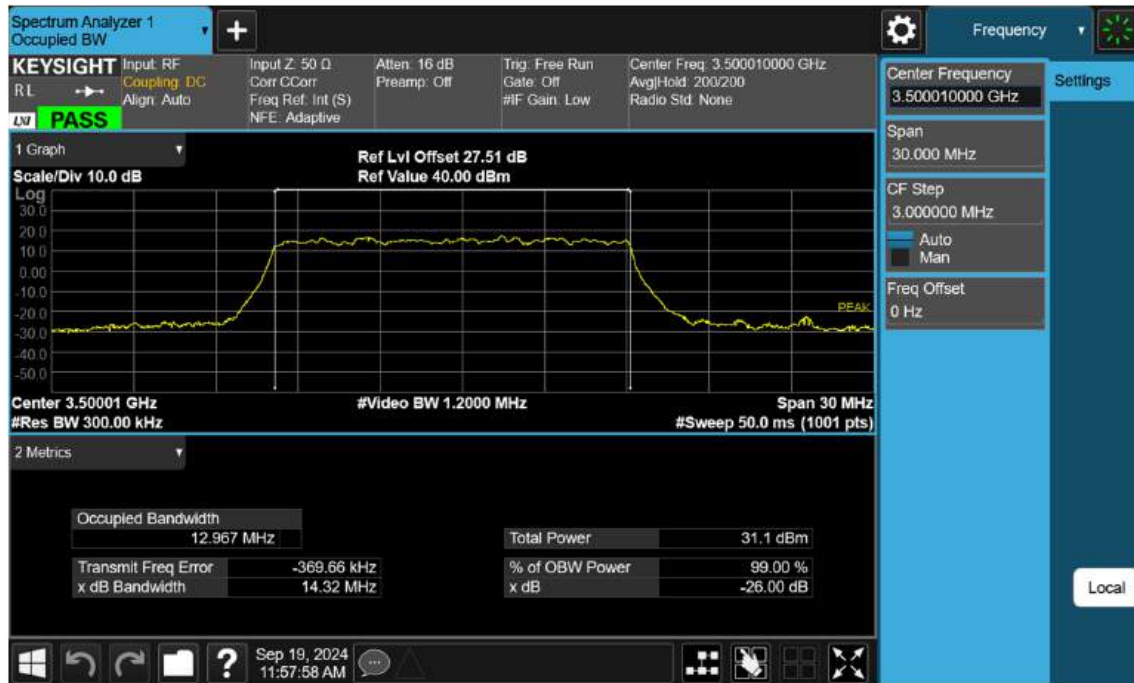
n77(3450~3550 MHz)_15 M_OBW_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_15 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_64QAM_FullRB



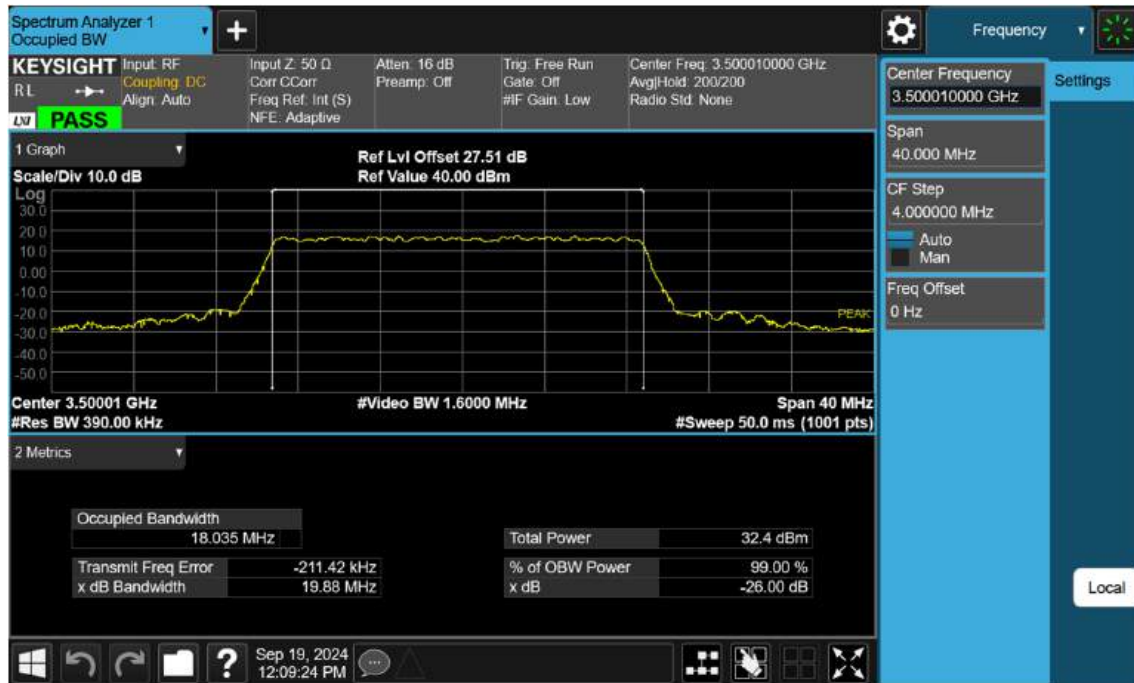
n77(3450~3550 MHz)_15 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_20 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_20 M_OBW_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_20 M_OBW_Mid_16QAM_FullRB



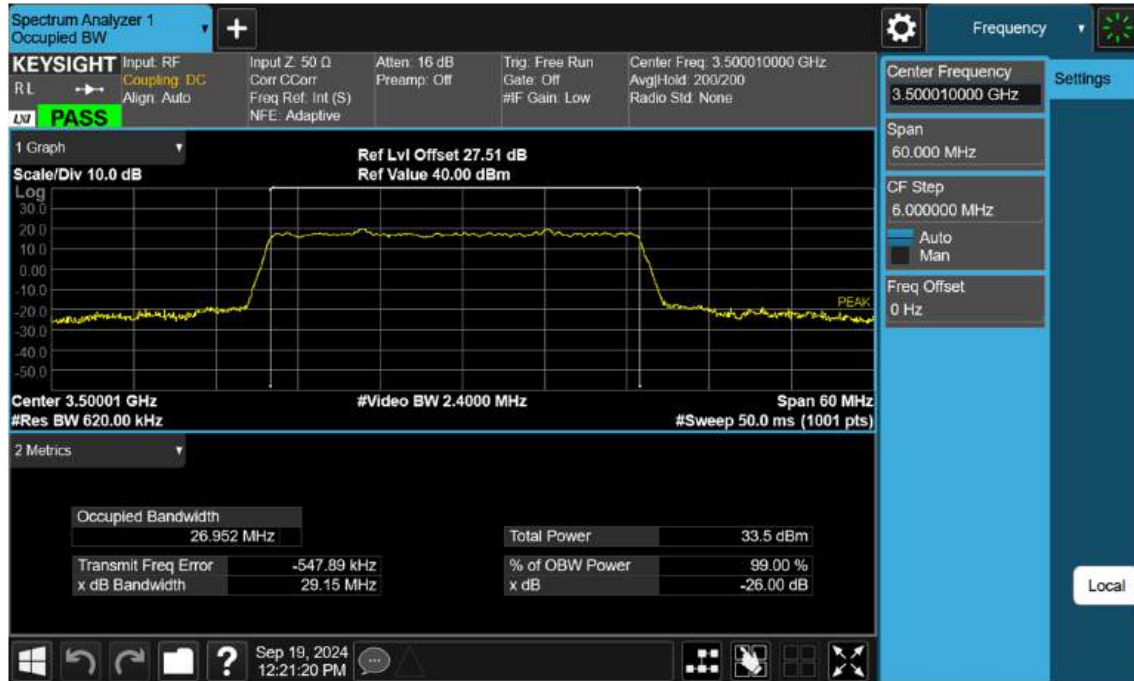
n77(3450~3550 MHz)_20 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_20 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_30 M_OBW_Mid_BPSK_FullRB



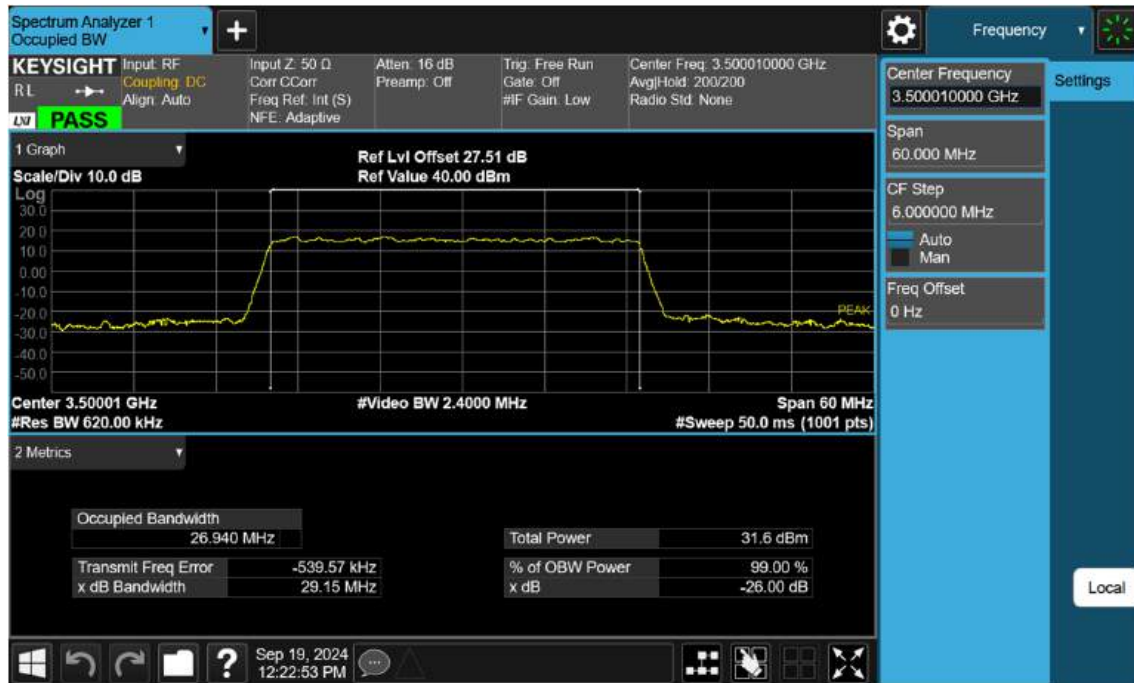
n77(3450~3550 MHz)_30 M_OBW_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_30 M_OBW_Mid_16QAM_FullRB



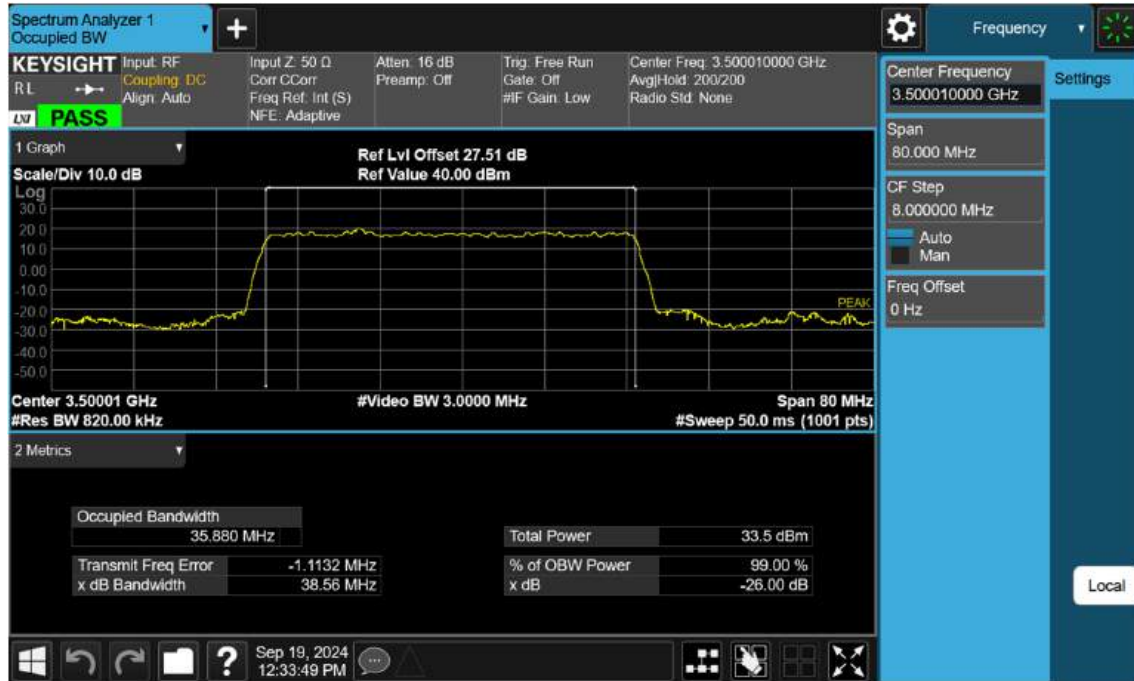
n77(3450~3550 MHz)_30 M_OBW_Mid_64QAM_FullRB



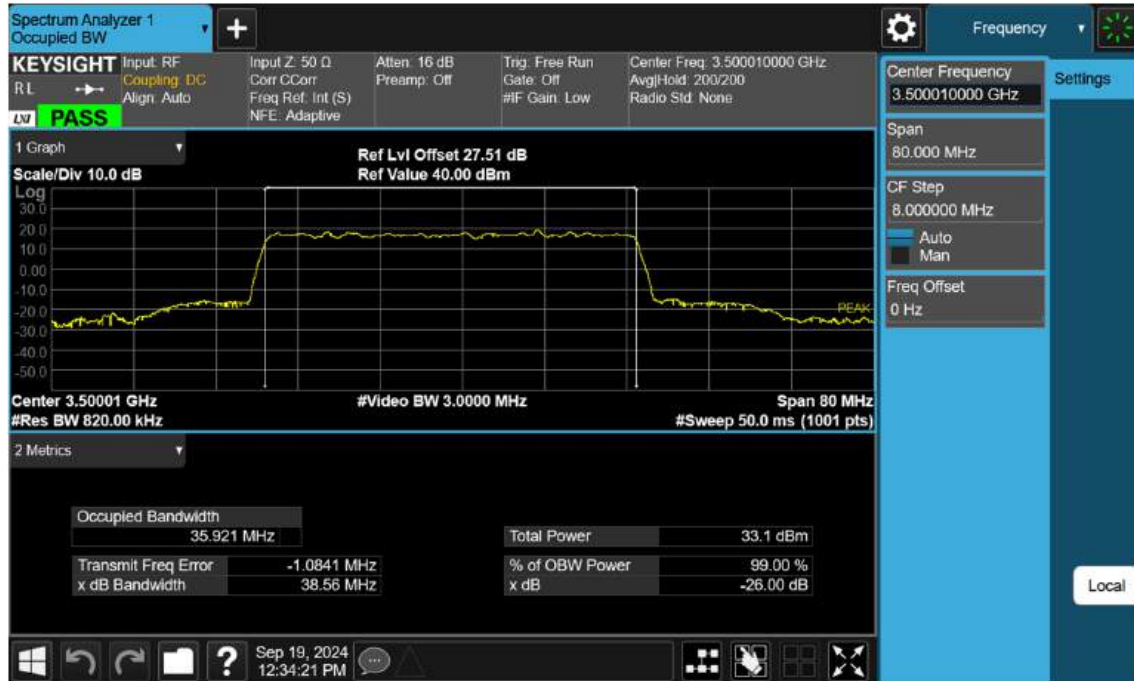
n77(3450~3550 MHz)_30 M_OBW_Mid_256QAM_FullRB



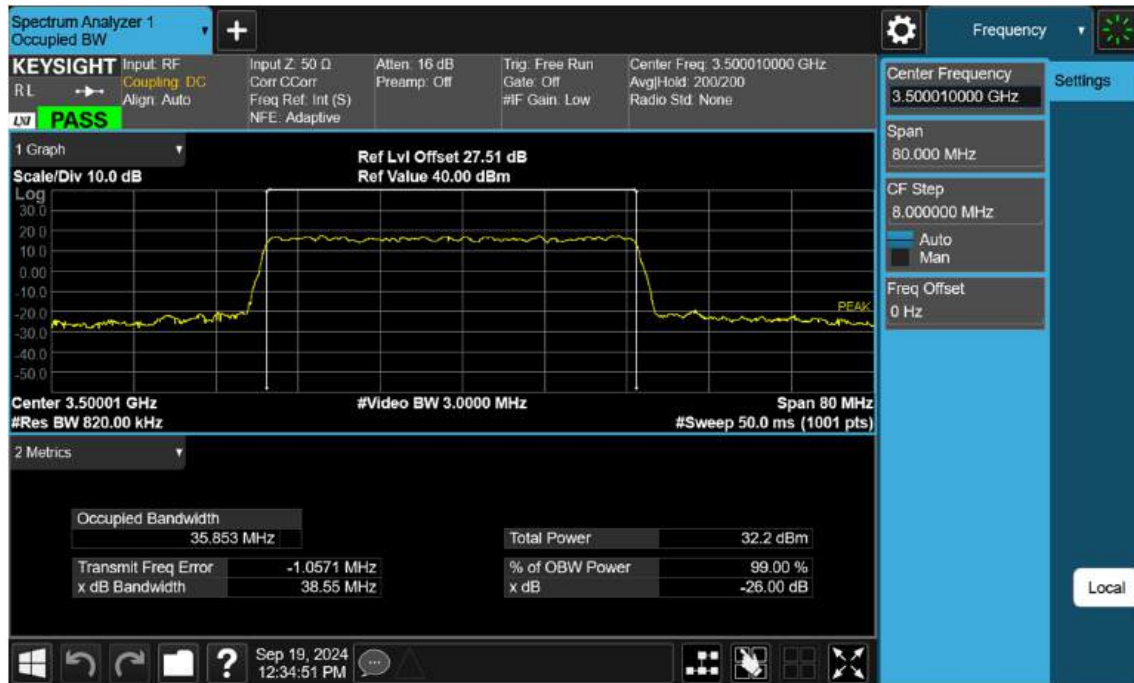
n77(3450~3550 MHz)_40 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_40 M_OBW_Mid_QPSK_FullIRB



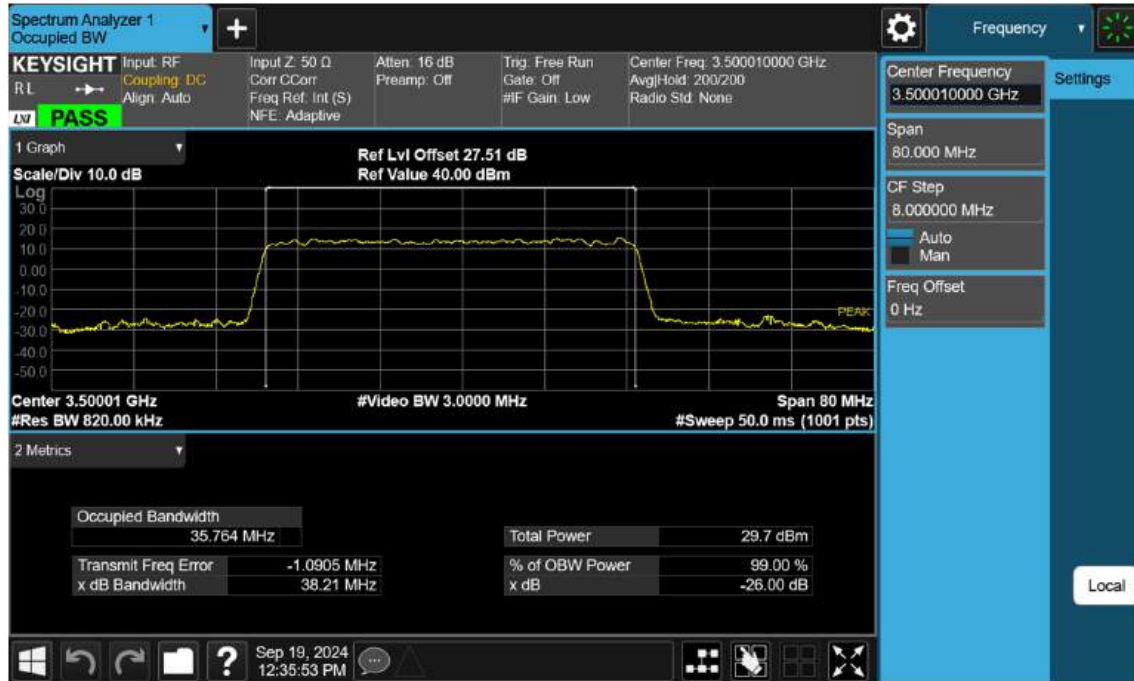
n77(3450~3550 MHz)_40 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_40 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_40 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_50 M_OBW_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_50 M_OBW_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_50 M_OBW_Mid_16QAM_FullRB



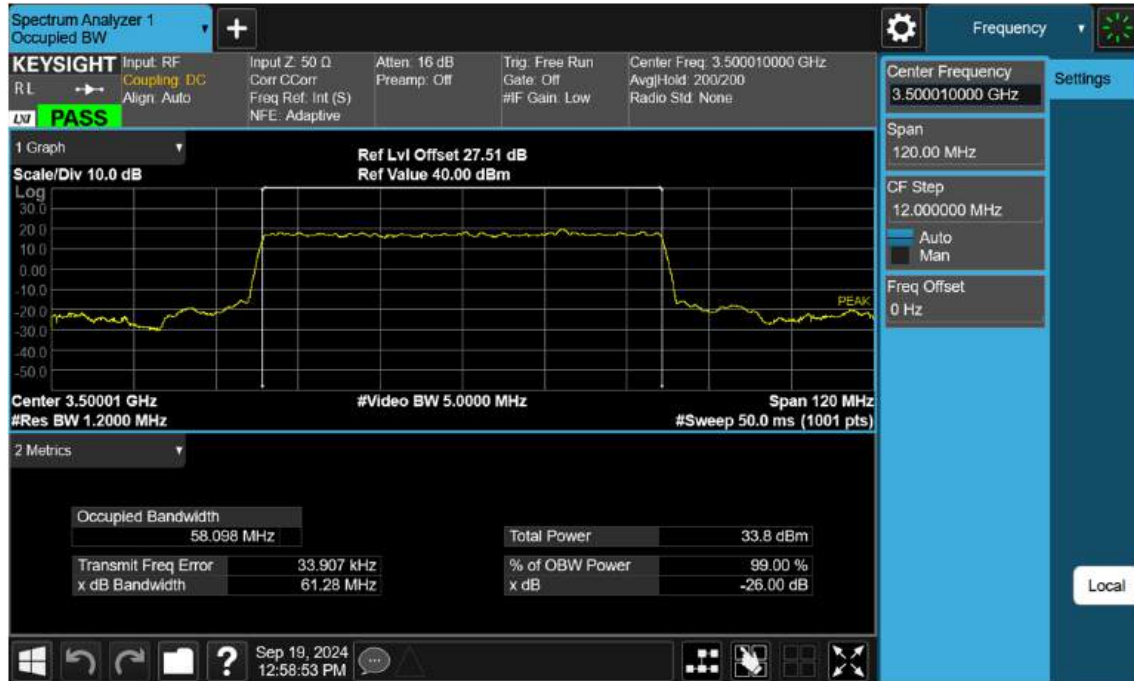
n77(3450~3550 MHz)_50 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_50 M_OBW_Mid_256QAM_FullRB



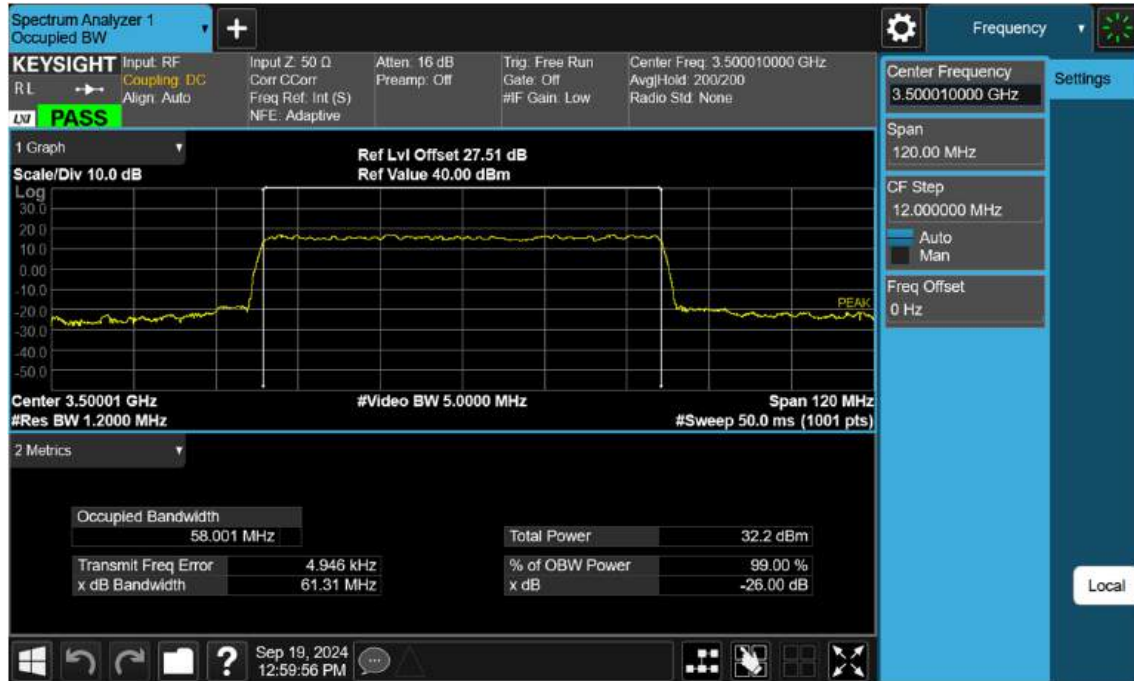
n77(3450~3550 MHz)_60 M_OBW_Mid_BPSK_FullIRB



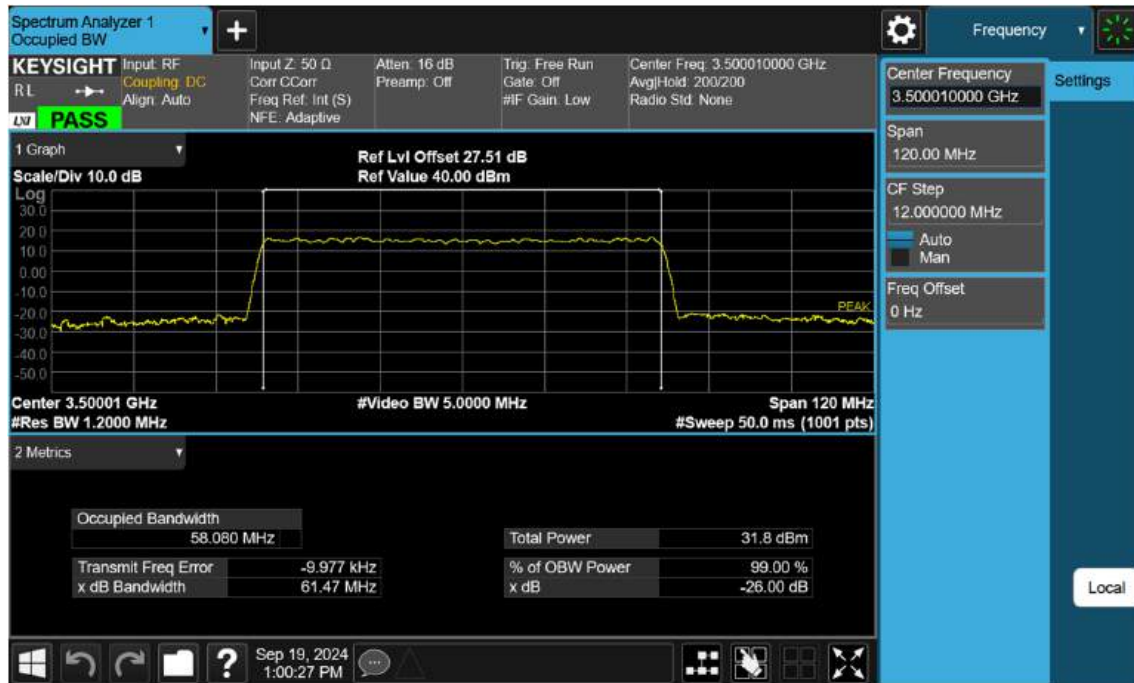
n77(3450~3550 MHz)_60 M_OBW_Mid_QPSK_FullIRB



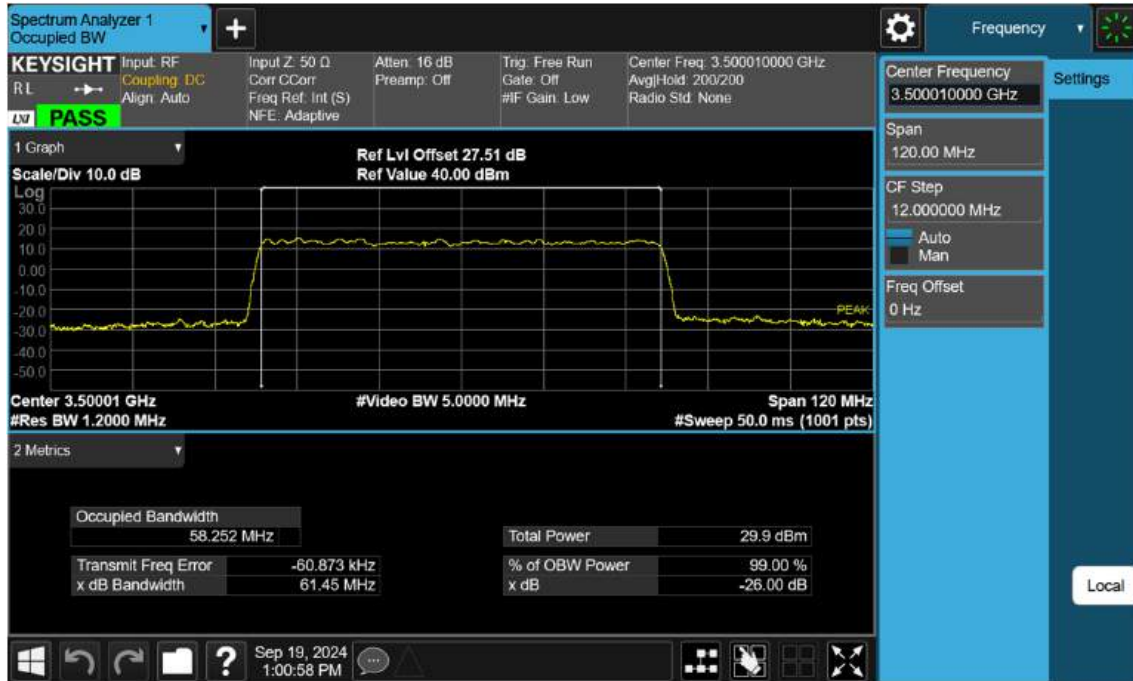
n77(3450~3550 MHz)_60 M_OBW_Mid_16QAM_FullRB



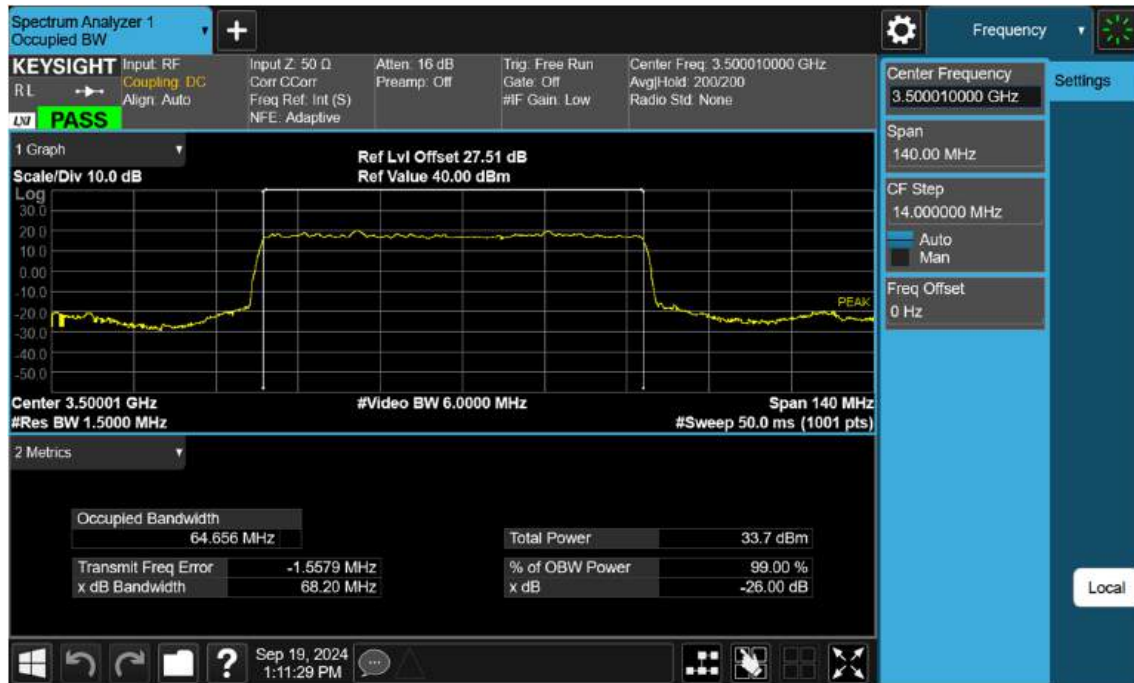
n77(3450~3550 MHz)_60 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_60 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_70 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_70 M_OBW_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_70 M_OBW_Mid_16QAM_FullRB



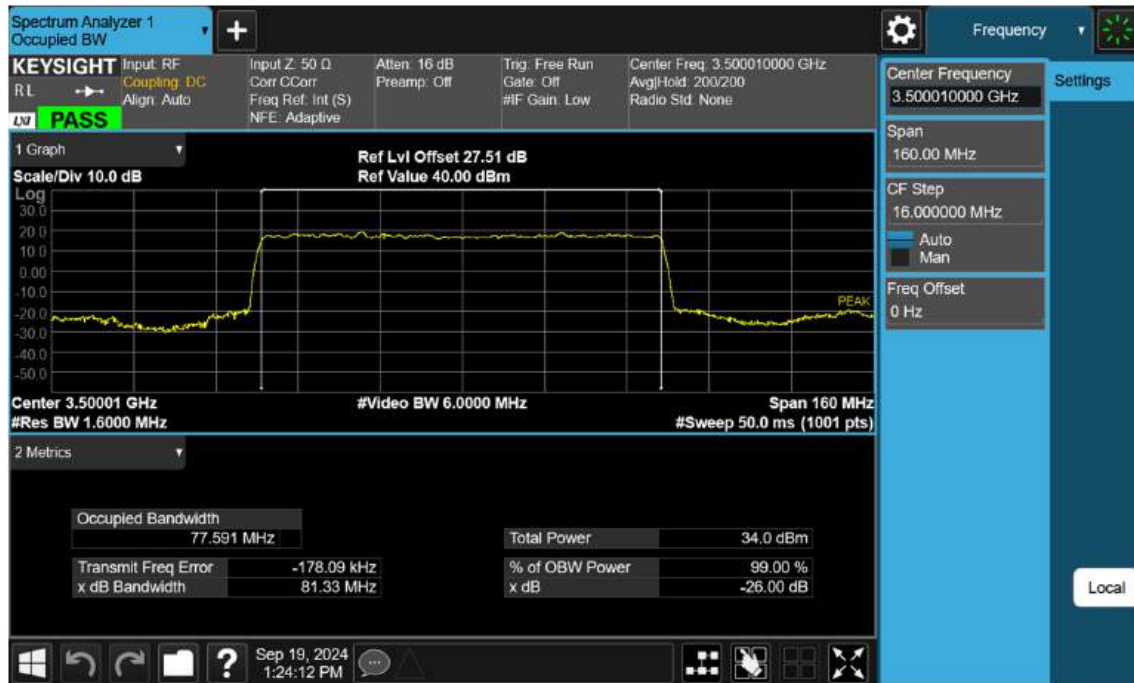
n77(3450~3550 MHz)_70 M_OBW_Mid_64QAM_FullRB



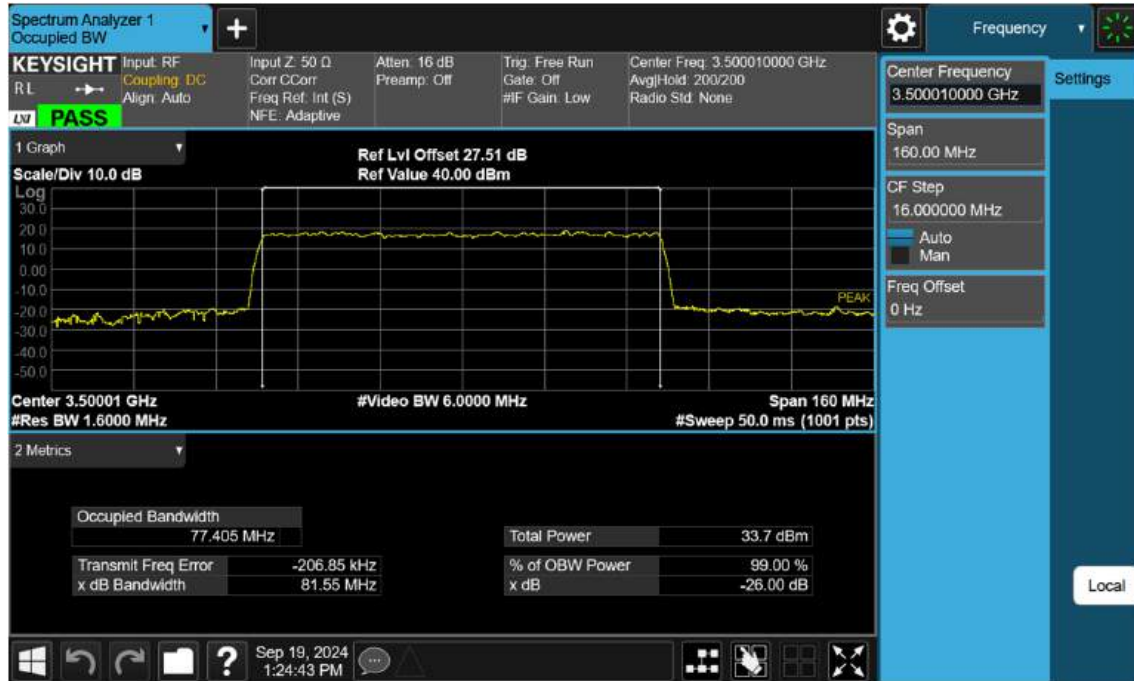
n77(3450~3550 MHz)_70 M_OBW_Mid_256QAM_FullRB



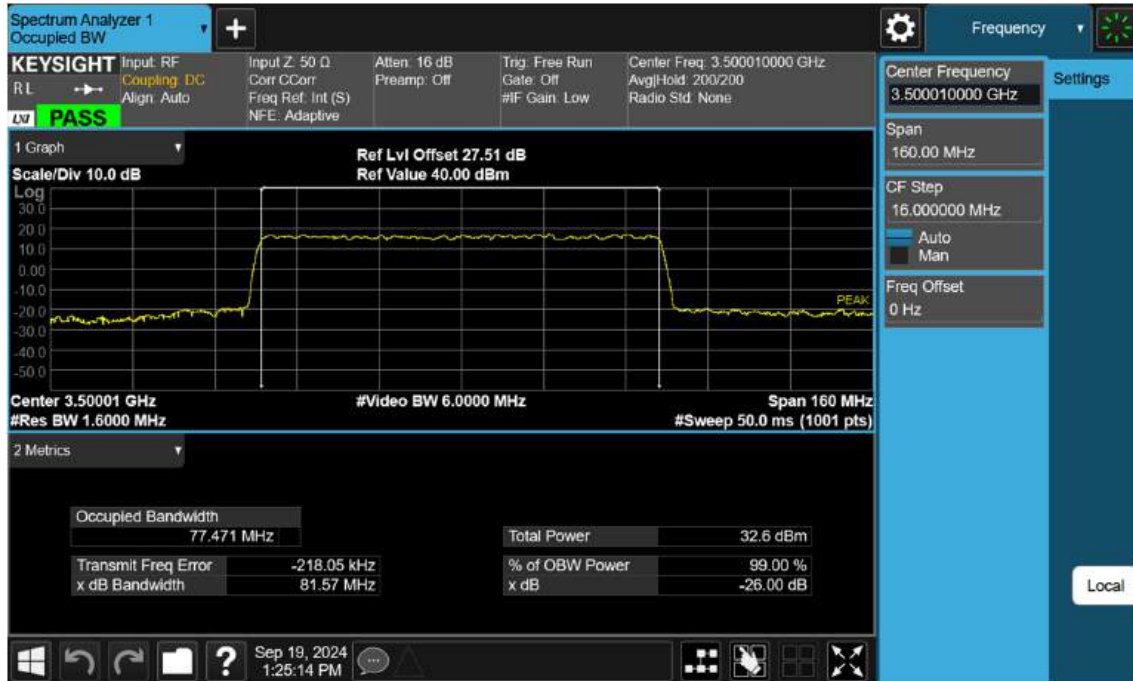
n77(3450~3550 MHz)_80 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_80 M_OBW_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_80 M_OBW_Mid_16QAM_FullRB



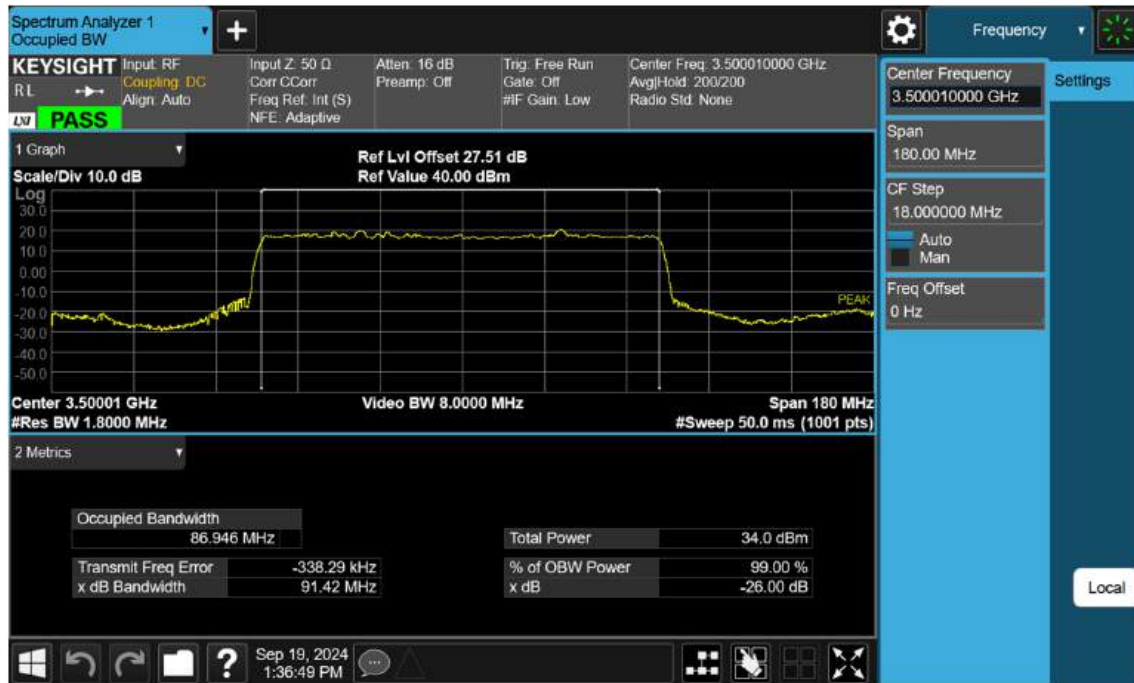
n77(3450~3550 MHz)_80 M_OBW_Mid_64QAM_FullRB



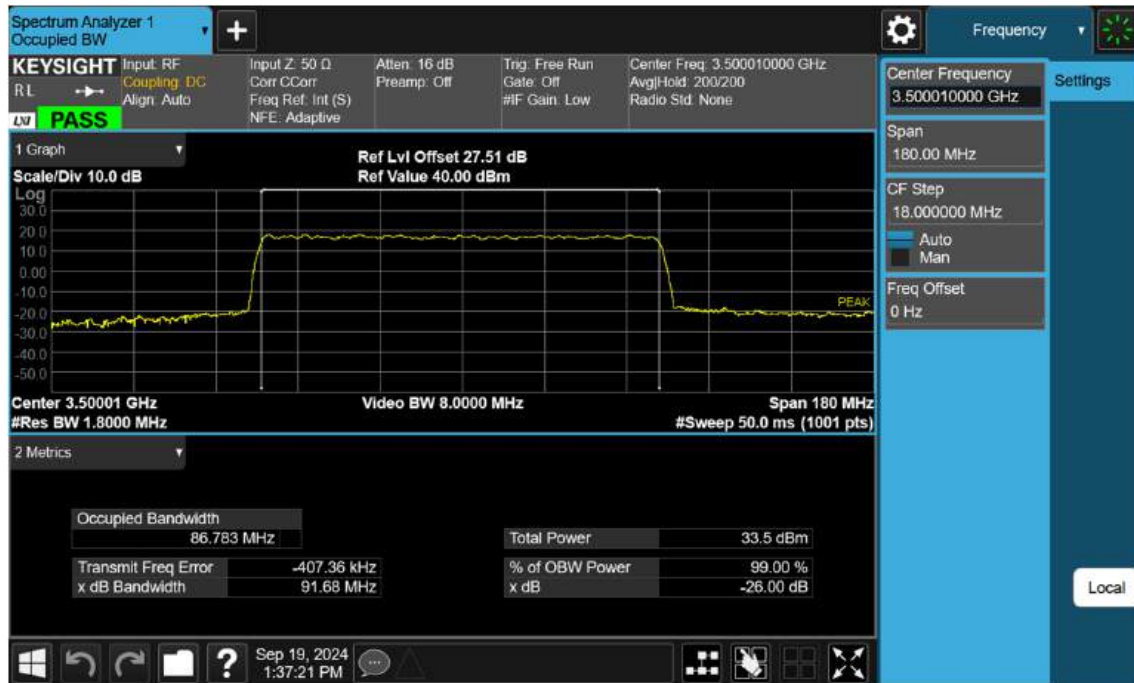
n77(3450~3550 MHz)_80 M_OBW_Mid_256QAM_FullRB



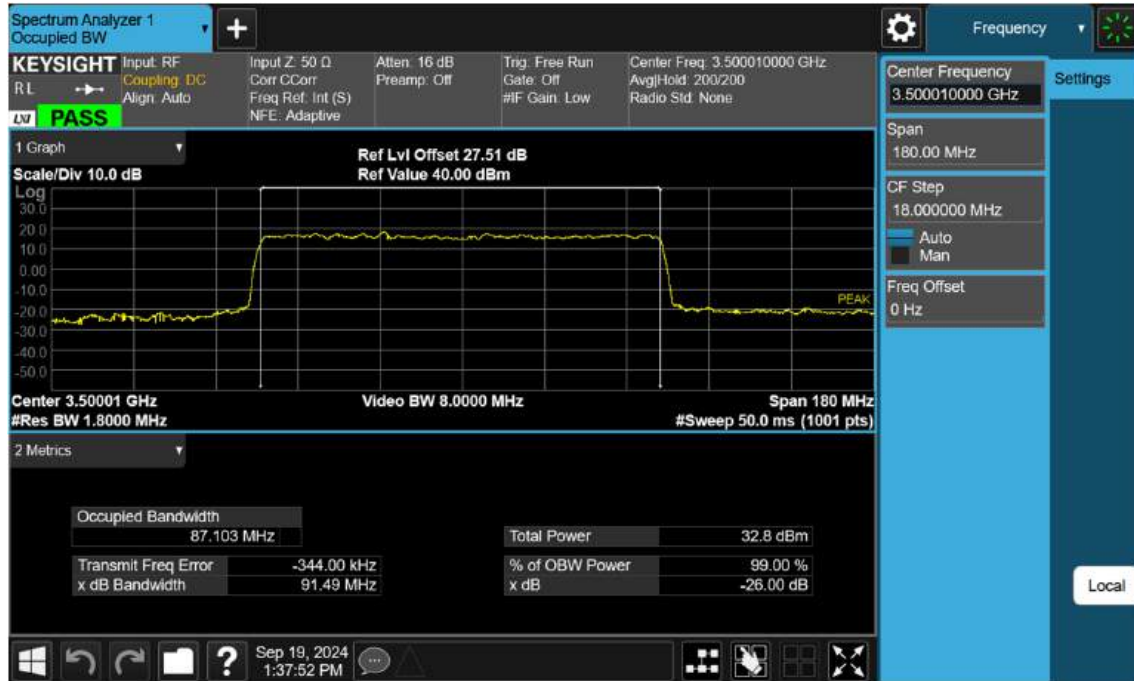
n77(3450~3550 MHz)_90 M_OBW_Mid_BPSK_FullRB



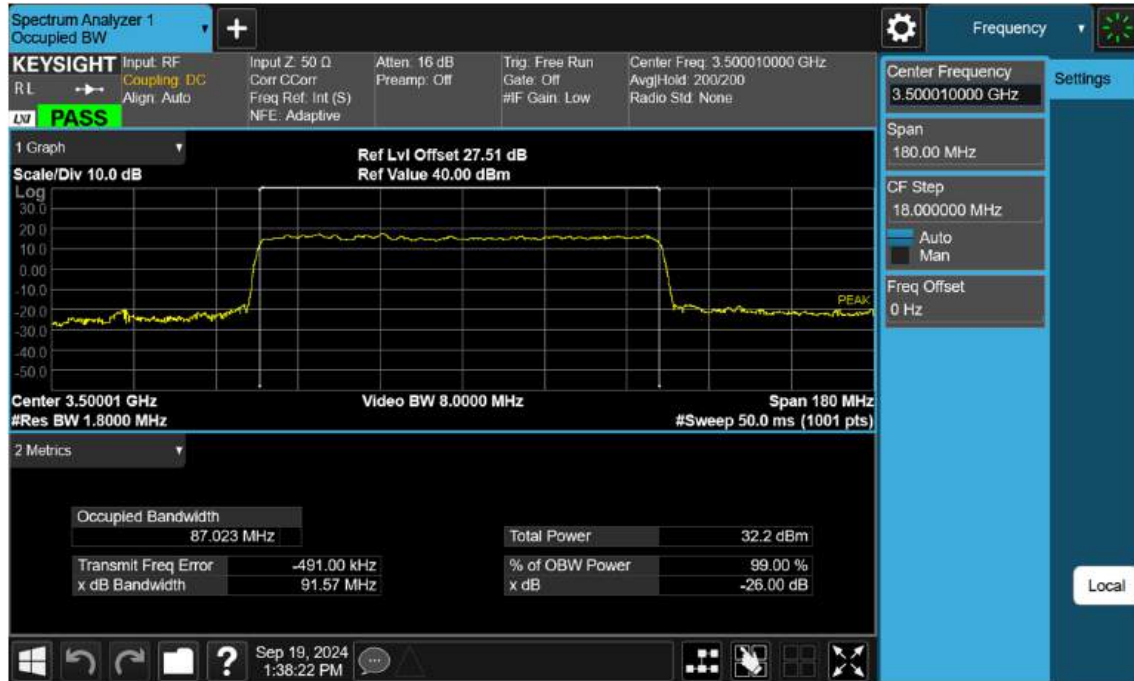
n77(3450~3550 MHz)_90 M_OBW_Mid_QPSK_FullIRB



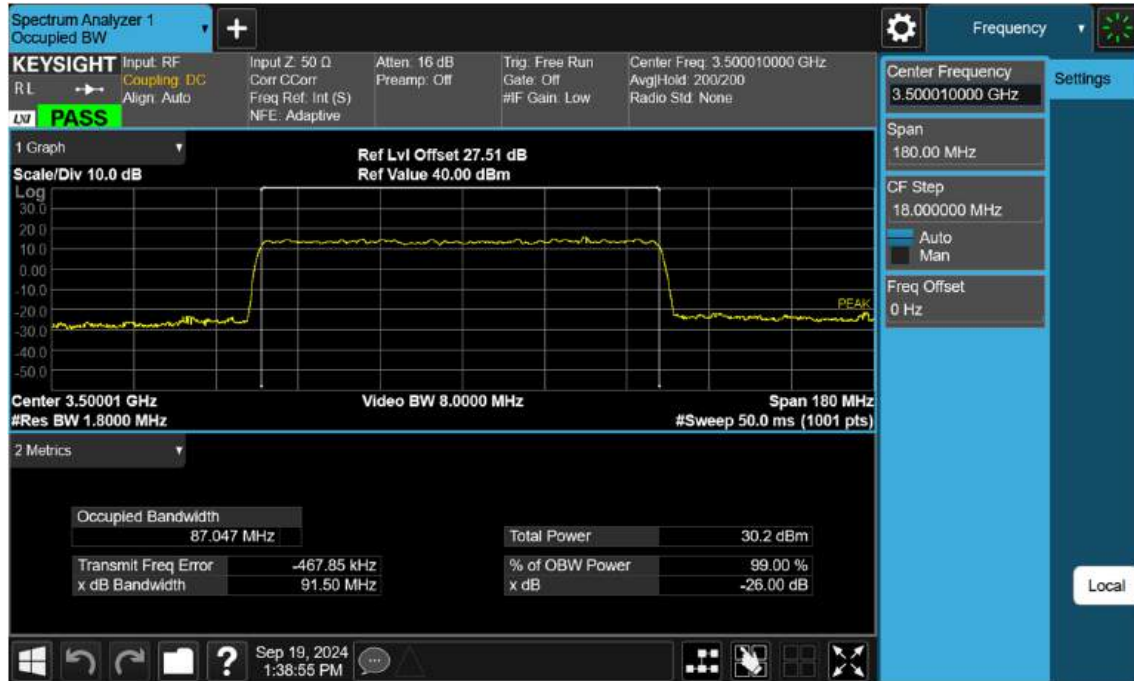
n77(3450~3550 MHz)_90 M_OBW_Mid_16QAM_FullRB



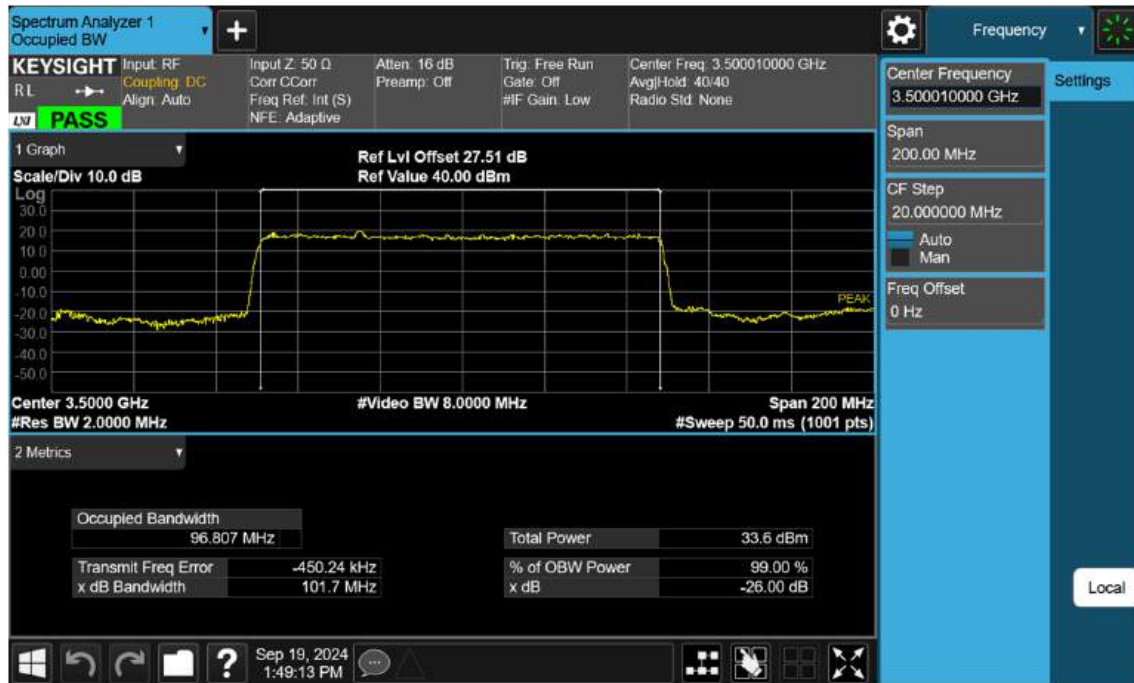
n77(3450~3550 MHz)_90 M_OBW_Mid_64QAM_FullRB



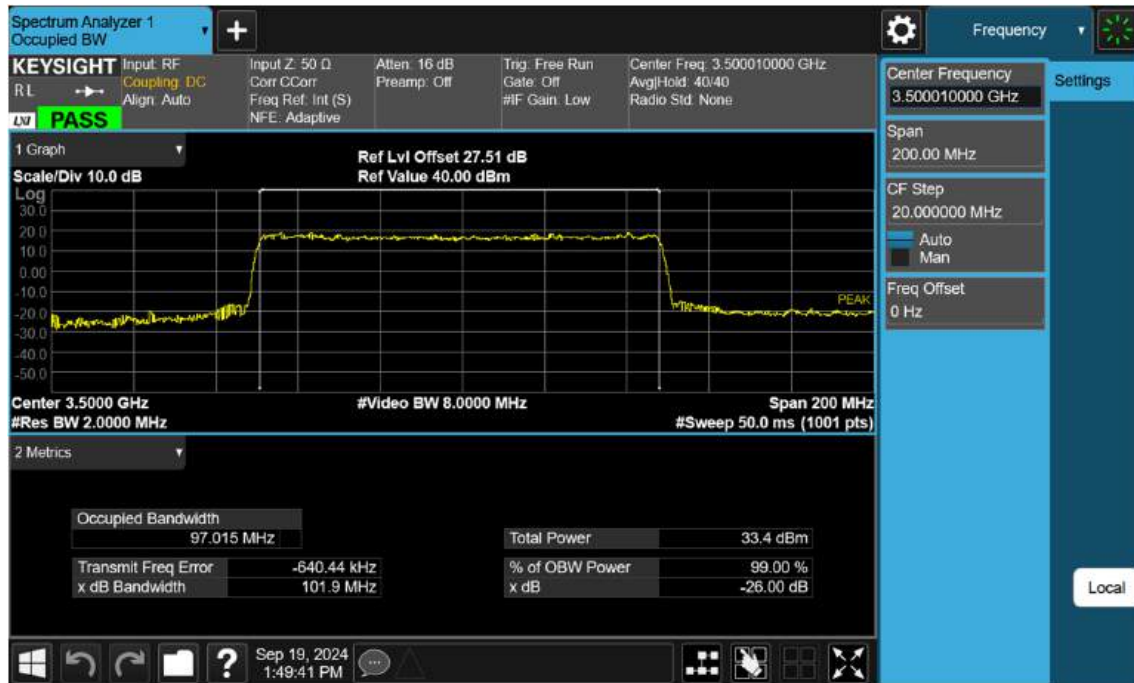
n77(3450~3550 MHz)_90 M_OBW_Mid_256QAM_FullRB



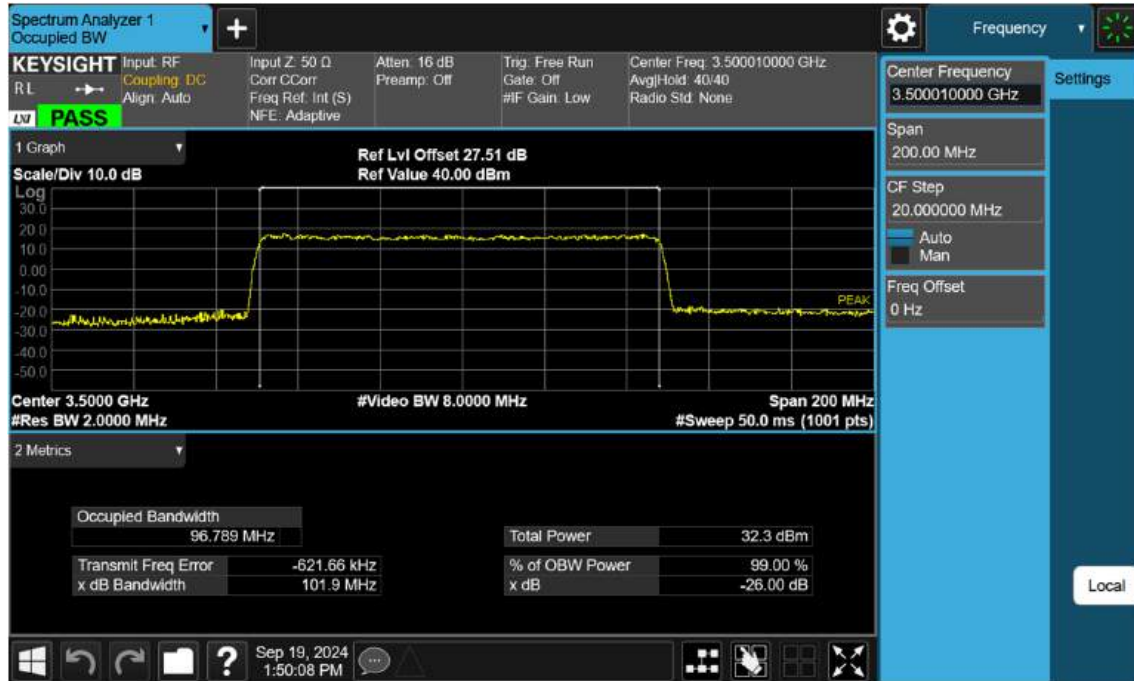
n77(3450~3550 MHz)_100 M_OBW_Mid_BPSK_FullRB



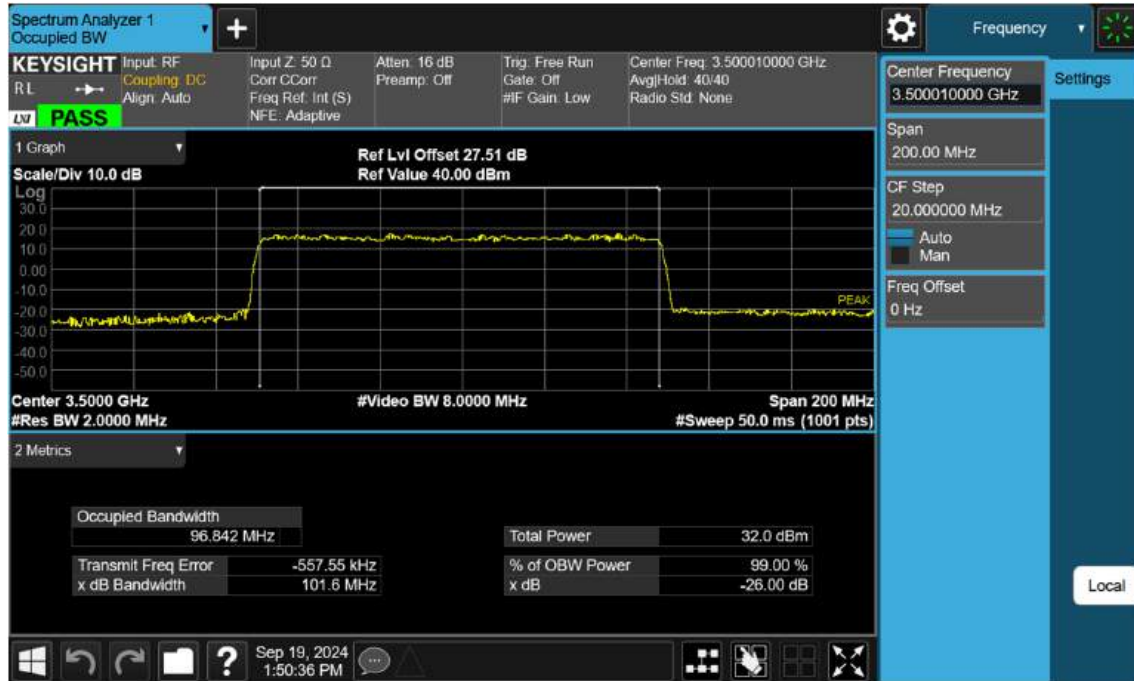
n77(3450~3550 MHz)_100 M_OBW_Mid_QPSK_FullRB



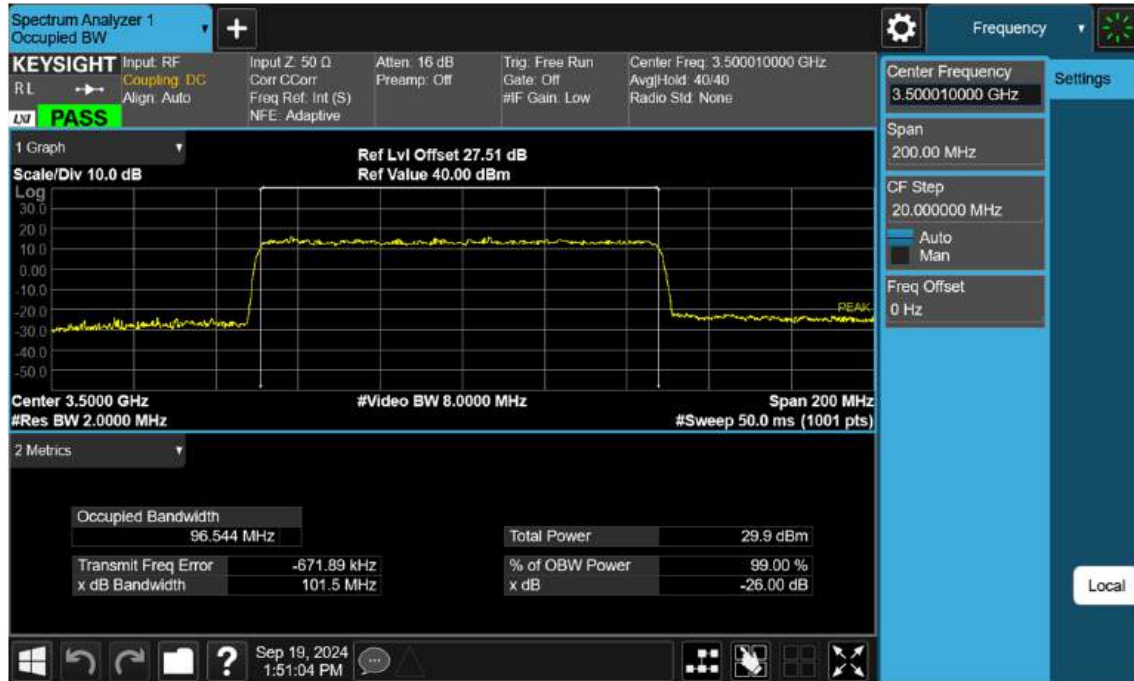
n77(3450~3550 MHz)_100 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_100 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_100 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB

