



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2323-4, XT2323-7  
**FCC ID** : IHDT56AL3  
**STANDARD** : 47 CFR Part 2, 27 Subpart O  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)  
**TEST DATE(S)** : Jun. 01, 2023 ~ Jun. 08, 2023

We, Sporton International Inc. (KunShan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (KunShan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

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People's Republic of China**



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	-
3.9	§27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77, n78)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 29.83 dB at 14820.000 MHz

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2323-4, XT2323-7
FCC ID	IHDT56AL3
IMEI Code	Conducted: 354478360011399/354478360011407 Radiation: 350492020024498/350492020024506
HW Version	DVT2
SW Version	T2TV33.27
EUT Stage	Identical Prototype

Remark: The two models XT2323-4, XT2323-7 are only for market differentiation, all the others are the same.

### 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx/Rx Frequency</b>	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
<b>SCS</b>	30kHz
<b>Bandwidth</b>	10 / 15 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
<b>Antenna Gain</b>	<p>&lt;Ant. 1&gt; 5G NR n77: -1.0 dBi 5G NR n78: -1.0 dBi</p> <p>&lt;Ant. 2&gt; 5G NR n77: -2.5 dBi 5G NR n78: -2.5 dBi</p> <p>&lt;Ant. 3&gt; 5G NR n77: -2.4 dBi 5G NR n78: -2.4 dBi</p> <p>&lt;Ant. 5&gt; 5G NR n77: -2.4 dBi 5G NR n78: -2.4 dBi</p>
<b>Type of Modulation</b>	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

**Remark:**

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP are shown in the report, 5G NR n77/n78 SISO mode for Ant.5 and MIMO mode for Ant(3+2).
2. 5G NR n77/n78 SA/NSA mode and UL MIMO mode support Power class 3
3. 5G NR n77/n78 support UL MIMO mode for Ant(3+2) / Ant(5+1), only the worst test data of Ant(3+2) for n77 is shown in the report by referring to the higher conducted power.
4. 5G NR n77/n78 supports SA and NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode and 5G NR n77 covers n78.
5. 5G NR n77/n78 UL\_MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
6. 5G NR n77/n78 only supports CP-OFDM modulation in UL MIMO mode.
7. For UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add  $10 \cdot \log(N_{ANT})$  according to KDB 662911 D01.
8. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
9. The EN-DC mode combination could be referred to the product spec.

### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.



### 1.6 Specification of Accessory

Specification of Accessory					
Base Battery	Brand Name	Motorola(ATL)	Model Name	PM29	
Flip Battery	Brand Name	Motorola(ATL)	Model Name	PV11	

### 1.7 Maximum EIRP and Emission Designator

5G NR n77		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.1159	8M59G7D	0.1091	8M60W7D
15	3705.52 ~ 3972.48	0.1197	13M6G7D	0.1175	13M6W7D
20	3710.01 ~ 3969.99	0.1197	18M2G7D	0.1178	18M2W7D
30	3715.02 ~ 3964.98	0.1225	27M7G7D	0.1205	27M8W7D
40	3720.00 ~ 3960.00	0.1239	37M8G7D	0.1205	38M0W7D
50	3725.01 ~ 3954.99	0.1164	47M3G7D	0.1146	47M5W7D
60	3730.02 ~ 3949.98	0.1138	57M9G7D	0.1119	57M9W7D
70	3735.00 ~ 3945.00	0.1130	67M6G7D	0.1096	67M6W7D
80	3740.01 ~ 3939.99	0.1112	77M5G7D	0.1072	77M4W7D
90	3745.02 ~ 3934.98	0.1094	87M4G7D	0.1059	87M5W7D
100	3750.00 ~ 3930.00	0.1242	97M7G7D	0.1167	97M7W7D

5G NR n78		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3795.00	0.1112	8M59G7D	0.1091	8M60W7D
15	3707.52 ~ 3792.48	0.1156	13M6G7D	0.1135	13M6W7D
20	3710.01 ~ 3789.99	0.1153	18M2G7D	0.1135	18M2W7D
30	3715.02 ~ 3784.98	0.1208	27M7G7D	0.1151	27M8W7D
40	3720.00 ~ 3780.00	0.1222	37M8G7D	0.1194	38M0W7D
50	3725.01 ~ 3774.99	0.1119	47M3G7D	0.1102	47M5W7D
60	3730.02 ~ 3769.98	0.1107	57M9G7D	0.1086	57M9W7D
70	3735.00 ~ 3765.00	0.1104	67M6G7D	0.1089	67M6W7D
80	3740.01 ~ 3759.99	0.1057	77M5G7D	0.1042	77M4W7D
90	3745.02 ~ 3754.98	0.1030	87M4G7D	0.1009	87M5W7D
100	3750.00 ~ 3750.00	0.1225	97M7G7D	0.1099	97M7W7D



5G NR n77 UL MIMO		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.1180	8M58G7D	0.1164	8M60W7D
15	3705.52 ~ 3972.48	0.1161	13M6G7D	0.1180	13M5W7D
20	3710.01 ~ 3969.99	0.1161	18M2G7D	0.1169	18M2W7D
30	3715.02 ~ 3964.98	0.1211	27M7G7D	0.1225	27M9W7D
40	3720.00 ~ 3960.00	0.1230	37M9G7D	0.1233	37M9W7D
50	3725.01 ~ 3954.99	0.1132	47M5G7D	0.1132	47M5W7D
60	3730.02 ~ 3949.98	0.1104	57M8G7D	0.1112	58M0W7D
70	3735.00 ~ 3945.00	0.1112	67M5G7D	0.1122	67M6W7D
80	3740.01 ~ 3939.99	0.1079	77M5G7D	0.1072	77M7W7D
90	3745.02 ~ 3934.98	0.1089	87M7G7D	0.1074	87M8W7D
100	3750.00 ~ 3930.00	0.1242	97M6G7D	0.1119	97M8W7D

5G NR n78 UL MIMO		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3795.00	0.1099	8M58G7D	0.1042	8M60W7D
15	3707.52 ~ 3792.48	0.1096	13M6G7D	0.1122	13M5W7D
20	3710.01 ~ 3789.99	0.1114	18M2G7D	0.1104	18M2W7D
30	3715.02 ~ 3784.98	0.1140	27M7G7D	0.1151	27M9W7D
40	3720.00 ~ 3780.00	0.1183	37M9G7D	0.1167	37M9W7D
50	3725.01 ~ 3774.99	0.1072	47M5G7D	0.1052	47M5W7D
60	3730.02 ~ 3769.98	0.1054	57M8G7D	0.1047	58M0W7D
70	3735.00 ~ 3765.00	0.1059	67M5G7D	0.1059	67M6W7D
80	3740.01 ~ 3759.99	0.1054	77M5G7D	0.1052	77M7W7D
90	3745.02 ~ 3754.98	0.1026	87M7G7D	0.1007	87M8W7D
100	3750.00 ~ 3750.00	0.1186	97M6G7D	0.1081	97M8W7D

Note:

1. 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the conducted test results of n77 provided in this report cover n78.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.



### 1.8 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-KS TH01-KS	CN1257	314309

### 1.9 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24al

### 1.10 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.




## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

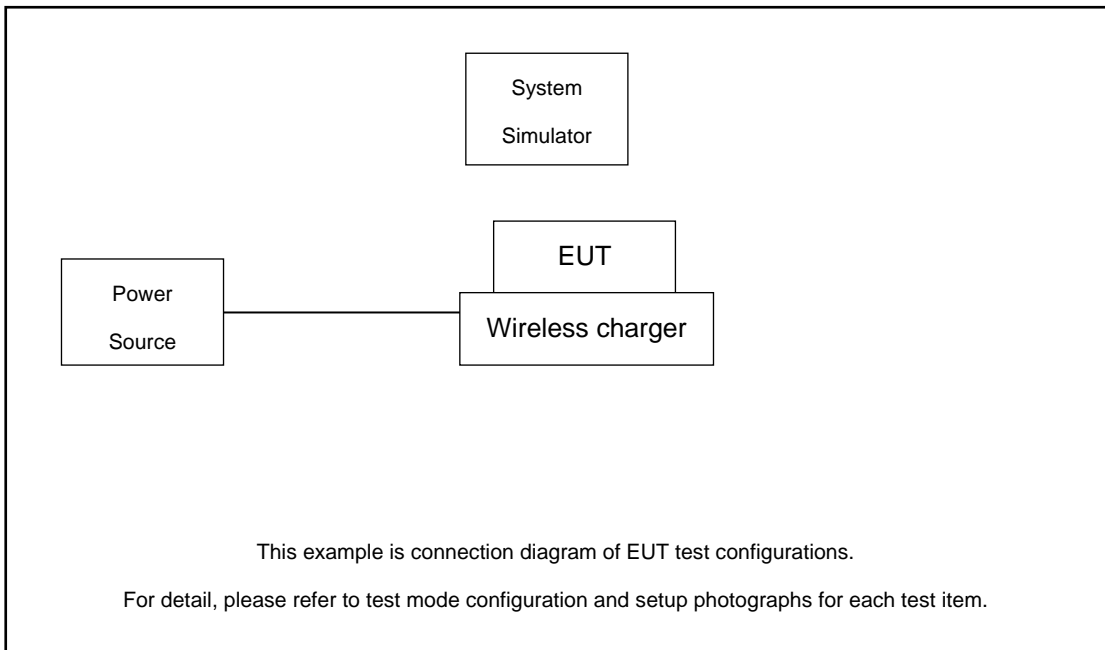
For radiated measurement, pre-scanned flip open and close state in three orthogonal panels X, Y, Z. The worst cases (Y plane with flip open+wireless charger) were recorded in this report

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)										Modulation					RB #			Test Channel		
		10	15	20	25	30	40	50	60	70~90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Partial	Full	L	M	H
Max. Output Power	n77	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	n78	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
Peak-to-Average Ratio	n77			v	-						v	v	v				v		v	v	v	v
26dB and 99% Bandwidth	n77	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	n77	v			-			v			v	v	v				v		v	v		v
Conducted Spurious Emission	n77	v			-			v			v	v	v				v			v	v	v
Frequency Stability	n77	v		v	-								v						v		v	
E.I.R.P	n77	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	n78	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	n77	Worst Case																		v	v	v
Note	<ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> <li>Frequency Stability : Normal Voltage = 3.91V; Low Voltage =3.4V; High Voltage =4.5V.</li> <li>All test items are based on engineering evaluation.</li> </ol>																					

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820/8821	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	Wireless charger	N/A	N/A	N/A	N/A	N/A
5.	Adapter	N/A	N/A	N/A	N/A	N/A
6.	USB cable	N/A	N/A	N/A	N/A	N/A

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor.}$$

Following shows an offset computation example with cable loss 6.5 dB and 20dB attenuator.

Example :



$$\text{Offset(dB)} = \text{RF cable loss(dB)} + \text{attenuator factor(dB)}$$

$$= 6.5 + 10 = 26.5 \text{ (dB)}$$

### 2.5 Frequency List of Low/Middle/High Channels

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975



5G n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000		
	Frequency	3750		
90	Channel	649668	650000	650332
	Frequency	3745.02	3750	3754.98
80	Channel	649334	650000	650666
	Frequency	3740.01	3750	3759.99
70	Channel	649000	650000	651000
	Frequency	3735	3750	3765
60	Channel	648668	650000	651332
	Frequency	3730.02	3750	3769.98
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647668	650000	652332
	Frequency	3715.02	3750	3784.98
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99
15	Channel	647168	650000	652832
	Frequency	3707.52	3750	3792.48
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795

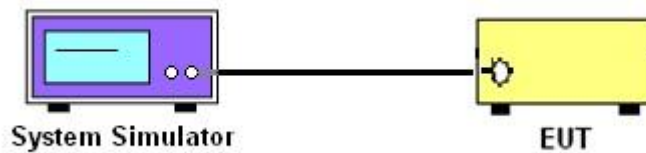
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

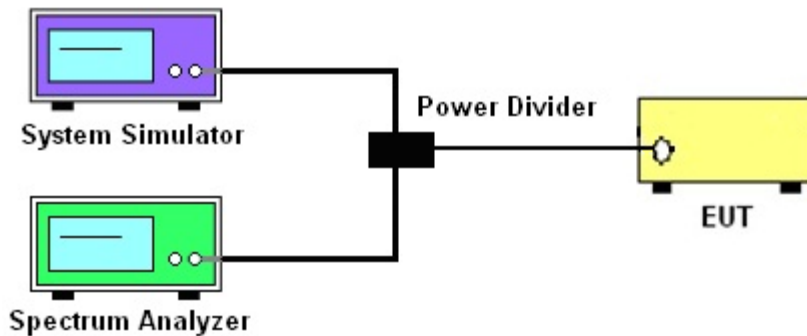
See list of measuring instruments of this test report.

#### 3.2 Test Setup

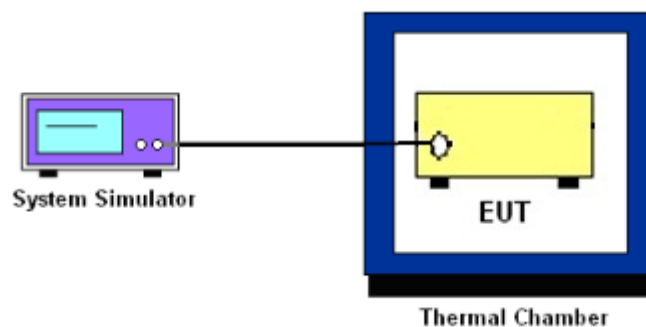
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.



## 3.4 Conducted Output Power and EIRP

### 3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77, n78.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



## **3.5 Peak-to-Average Ratio**

### **3.5.1 Description of the PAR Measurement**

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### **3.5.2 Test Procedures**

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



## 3.6 Occupied Bandwidth

### 3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is 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 transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

### 3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



### 3.7 Conducted Band Edge

#### 3.7.1 Description of Conducted Band Edge Measurement

27.53(l)(2)

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. 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, 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.

#### 3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW  $\geq$  1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

$$\begin{aligned} & \text{The limit line is derived from } 43 + 10\log(P)\text{dB below the transmitter power } P(\text{Watts}) \\ & = P(\text{W}) - [43 + 10\log(P)] \text{ (dB)} \\ & = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm.} \end{aligned}$$

9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.



### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
=  $P(W) - [43 + 10\log(P)]$  (dB)  
=  $[30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
= -13dBm.



## 3.9 Frequency Stability

### 3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

### 3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### 3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at  $20\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. 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.
5. The variation in frequency was measured for the worst case.

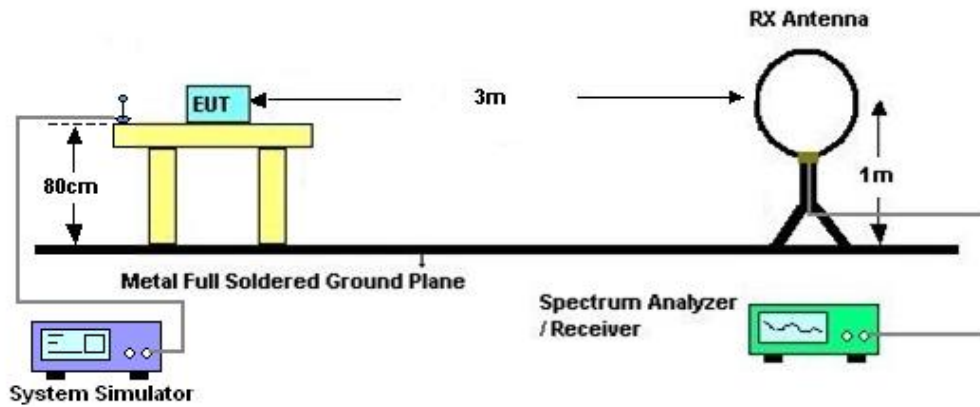
## 4 Radiated Test Items

### 4.1 Measuring Instruments

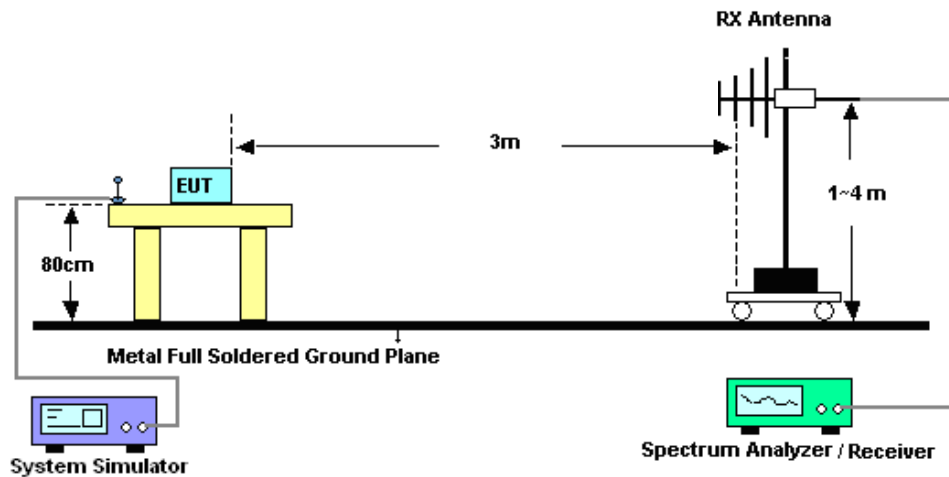
See list of measuring instruments of this test report.

### 4.2 Test Setup

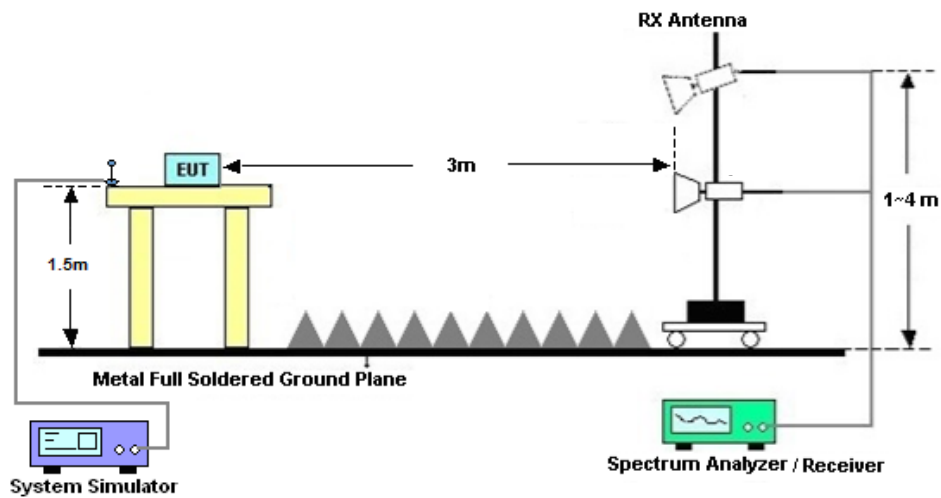
#### 4.2.1 For radiated test below 30MHz



#### 4.2.2 For radiated test from 30MHz to 1GHz



#### 4.2.3 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.



## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
=  $P(W) - [43 + 10\log(P)] \text{ (dB)}$   
=  $[30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
= -13dBm.



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Jun. 07, 2023~ Jun. 08, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2022	Jun. 07, 2023~ Jun. 08, 2023	Aug. 25, 2023	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Jun. 07, 2023~ Jun. 08, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Jun. 01, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Jun. 01, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Jun. 01, 2023	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	Jun. 01, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Jun. 01, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 11, 2022	Jun. 01, 2023	Jul. 10, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	Jun. 01, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 12, 2022	Jun. 01, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	Jun. 01, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 01, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 01, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 01, 2023	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



## 6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.1 %

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.82 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.56 dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.54 dB
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----- THE END -----



## Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

## FR1 N77(Ant 5)

### Transmitter Conducted Output Power And EIRP, ( $G_T - L_C$ )=-2.4dB

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	22.58	20.18	0.1042
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	22.55	20.15	0.1035
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	22.5	20.1	0.1023
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.87	20.47	0.1114
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	22.88	20.48	0.1117
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.78	20.38	0.1091
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	23.04	20.64	0.1159
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	22.88	20.48	0.1117
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	22.65	20.25	0.1059
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	22.61	20.21	0.1050
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	22.6	20.2	0.1047
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	22.49	20.09	0.1021
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.18	20.78	0.1197
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	23.18	20.78	0.1197
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.1	20.7	0.1175
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@1	22.89	20.49	0.1119
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	22.9	20.5	0.1122
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	22.75	20.35	0.1084
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	22.45	20.05	0.1012
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	22.46	20.06	0.1014
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	22.38	19.98	0.0995
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.18	20.78	0.1197
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	23.15	20.75	0.1189
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.11	20.71	0.1178
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	22.93	20.53	0.1130
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	22.91	20.51	0.1125
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	22.85	20.45	0.1109
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	22.82	20.42	0.1102
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	22.8	20.4	0.1096
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	22.74	20.34	0.1081
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.28	20.88	0.1225
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	23.23	20.83	0.1211
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.21	20.81	0.1205
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	23.02	20.62	0.1153
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	22.99	20.59	0.1146
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	22.93	20.53	0.1130

77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	22.99	20.59	0.1146
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	22.86	20.46	0.1112
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	22.74	20.34	0.1081
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.31	20.91	0.1233
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	23.3	20.9	0.1230
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.21	20.81	0.1205
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	23.33	20.93	0.1239
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	23.31	20.91	0.1233
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	23.18	20.78	0.1197
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	22.63	20.23	0.1054
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	22.62	20.22	0.1052
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	22.49	20.09	0.1021
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	23.06	20.66	0.1164
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	23.04	20.64	0.1159
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.99	20.59	0.1146
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	23.03	20.63	0.1156
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	22.98	20.58	0.1143
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	22.87	20.47	0.1114
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	22.52	20.12	0.1028
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	22.51	20.11	0.1026
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	22.43	20.03	0.1007
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.96	20.56	0.1138
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	22.92	20.52	0.1127
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.89	20.49	0.1119
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@1	22.8	20.4	0.1096
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	22.77	20.37	0.1089
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	22.67	20.27	0.1064
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	22.46	20.06	0.1014
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	22.5	20.1	0.1023
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	22.37	19.97	0.0993
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.93	20.53	0.1130
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	22.9	20.5	0.1122
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.8	20.4	0.1096
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@1	22.91	20.51	0.1125
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	22.87	20.47	0.1114
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	22.74	20.34	0.1081
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	22.45	20.05	0.1012
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	22.41	20.01	0.1002
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	22.35	19.95	0.0989
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.86	20.46	0.1112
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	22.82	20.42	0.1102
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.7	20.3	0.1072
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@1	22.83	20.43	0.1104
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	22.76	20.36	0.1086

77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	22.7	20.3	0.1072
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	22.44	20.04	0.1009
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	22.45	20.05	0.1012
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	22.35	19.95	0.0989
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.75	20.35	0.1084
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	22.68	20.28	0.1067
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.62	20.22	0.1052
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@1	22.77	20.37	0.1089
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	22.79	20.39	0.1094
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	22.65	20.25	0.1059
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	22.84	20.44	0.1107
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	22.54	20.14	0.1033
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	22.69	20.29	0.1069
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	22.82	20.42	0.1102
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	22.51	20.11	0.1026
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	22.63	20.23	0.1054
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	22.83	20.43	0.1104
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.39	19.99	0.0998
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	22.58	20.18	0.1042
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	22.8	20.4	0.1096
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	22.35	19.95	0.0989
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	22.41	20.01	0.1002
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	20.94	18.54	0.0714
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.52	18.12	0.0649
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	20.65	18.25	0.0668
77	30	100	650000	3750	CP-OFDM QPSK	137@68	22.81	20.41	0.1099
77	30	100	650000	3750	CP-OFDM QPSK	1@1	22.54	20.14	0.1033
77	30	100	650000	3750	CP-OFDM QPSK	1@271	22.64	20.24	0.1057
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	23.34	20.94	0.1242
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	22.82	20.42	0.1102
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	23.05	20.65	0.1161
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	23.1	20.7	0.1175
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	22.67	20.27	0.1064
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	22.97	20.57	0.1140
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	23.05	20.65	0.1161
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	22.73	20.33	0.1079
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	22.92	20.52	0.1127
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	23.07	20.67	0.1167
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.63	20.23	0.1054
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	22.75	20.35	0.1084
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	21.18	18.78	0.0755
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.69	18.29	0.0675
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	21.01	18.61	0.0726
77	30	100	656000	3840	CP-OFDM QPSK	137@68	23.08	20.68	0.1169

77	30	100	656000	3840	CP-OFDM QPSK	1@1	22.79	20.39	0.1094
77	30	100	656000	3840	CP-OFDM QPSK	1@271	23.02	20.62	0.1153
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	22.94	20.54	0.1132
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	22.85	20.45	0.1109
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	22.84	20.44	0.1107
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	22.95	20.55	0.1135
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	22.85	20.45	0.1109
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	22.8	20.4	0.1096
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	22.94	20.54	0.1132
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	22.73	20.33	0.1079
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	22.77	20.37	0.1089
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	22.95	20.55	0.1135
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	22.66	20.26	0.1062
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	22.59	20.19	0.1045
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	21.03	18.63	0.0729
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	20.86	18.46	0.0701
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	20.81	18.41	0.0693
77	30	100	662000	3930	CP-OFDM QPSK	137@68	22.91	20.51	0.1125
77	30	100	662000	3930	CP-OFDM QPSK	1@1	22.84	20.44	0.1107
77	30	100	662000	3930	CP-OFDM QPSK	1@271	22.81	20.41	0.1099

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	0.0017	PASS	NV
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	-0.0014	PASS	LV
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	0.0023	PASS	HV
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	0.0021	PASS	-30°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	0.0016	PASS	-20°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	-0.0011	PASS	-10°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	0.0025	PASS	0°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	0.0031	PASS	10°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	-0.0023	PASS	20°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	0.0028	PASS	30°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	0.0013	PASS	40°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	25@0	0.0014	PASS	50°C

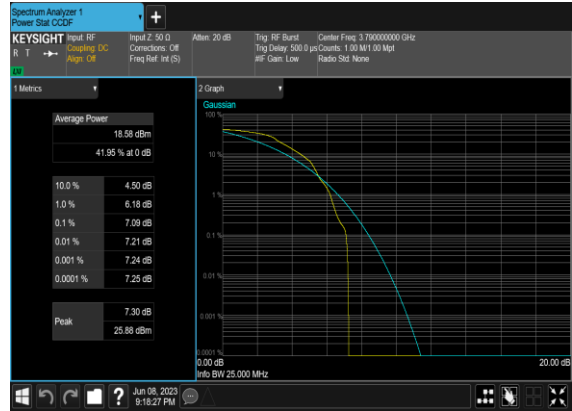
## Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	270@0	10.18	13	PASS
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	7.09	13	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	270@0	10.45	13	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	8.43	13	PASS

N77(100M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



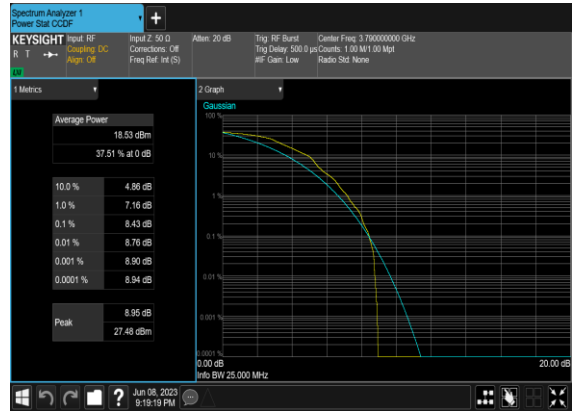
N77(100M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

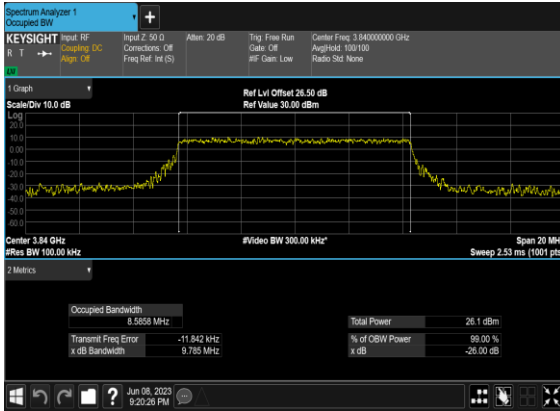


## Occupied Bandwidth

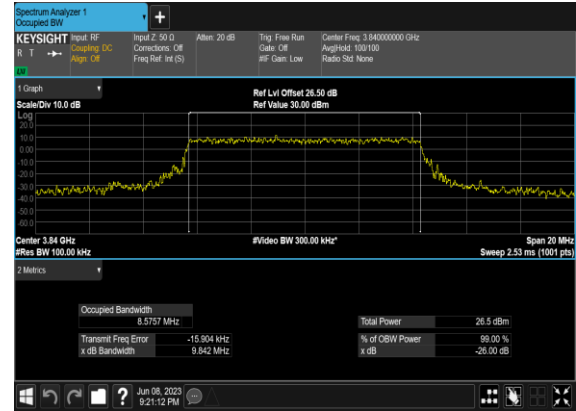
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5858	9.785
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5757	9.842
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5978	9.387
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5642	9.425
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.57	14.62
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.594	14.71
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.586	15.26
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.545	14.68
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.175	19.91
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.212	19.05
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.207	19.01
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.19	19.42
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.679	29.13
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.822	29.14
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.818	29.15
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.835	29.18
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.849	39.54
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.888	39.47
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.761	39.48
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.967	39.23
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.334	49.03
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.452	49.19
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.4	48.96
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.345	49.46
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.937	59.71
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.664	59.91

77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.928	59.76
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.733	59.83
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.554	69.59
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.584	69.62
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.636	69.61
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.353	69.69
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.498	79.92
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.448	79.9
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.352	80.2
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.395	79.96
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.433	90.47
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.379	90.37
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.515	90.43
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.468	90.23
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.681	100.7
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.656	100.5
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.366	100.5
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.707	100.7

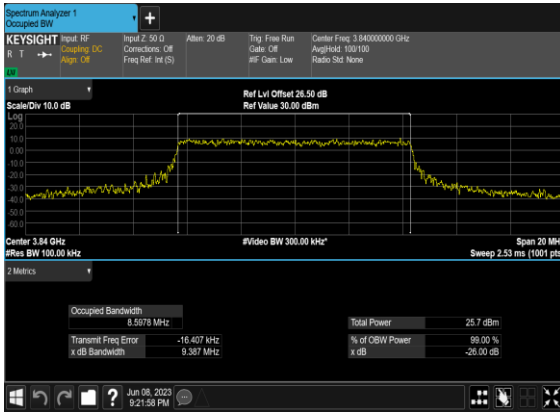
### N77(10M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



### N77(10M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



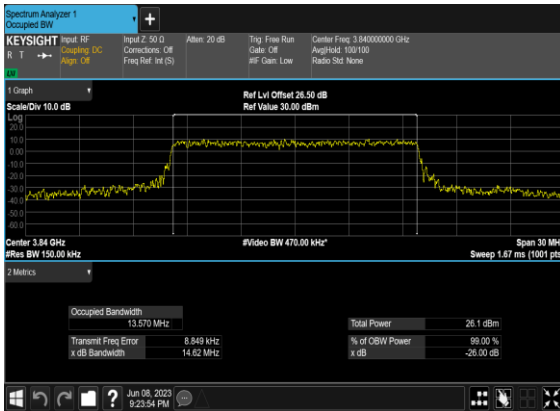
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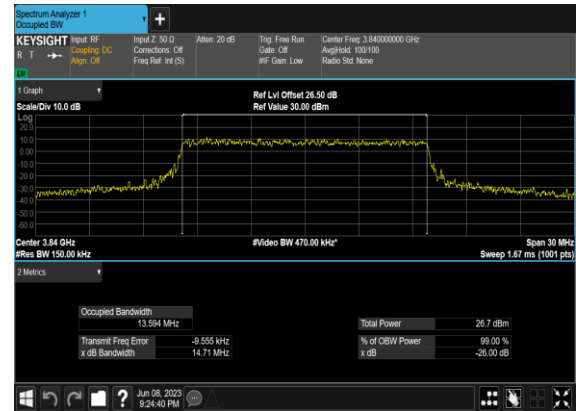
### N77(10M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



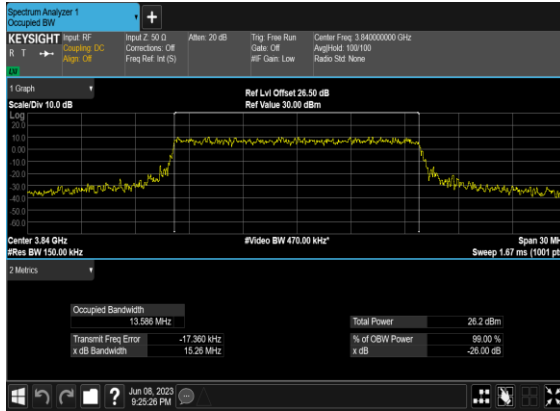
### N77(15M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



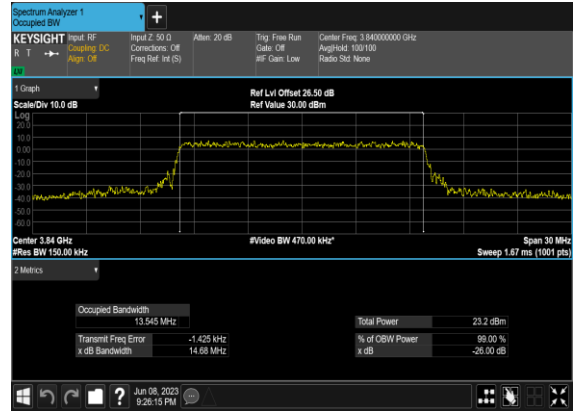
### N77(15M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



### N77(15M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



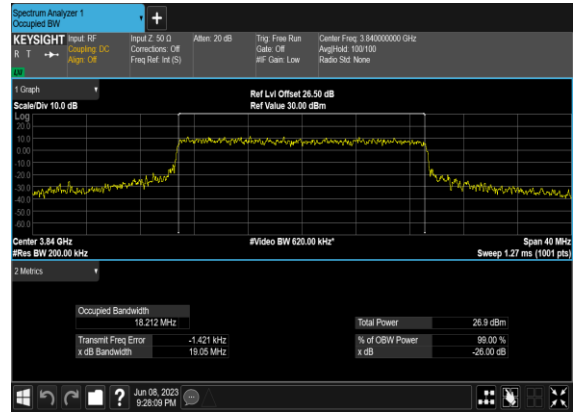
### N77(15M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



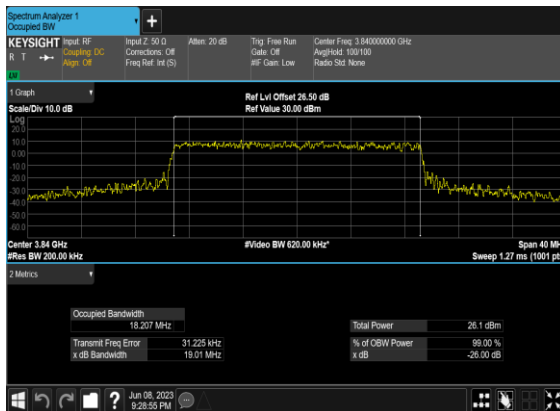
### N77(20M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



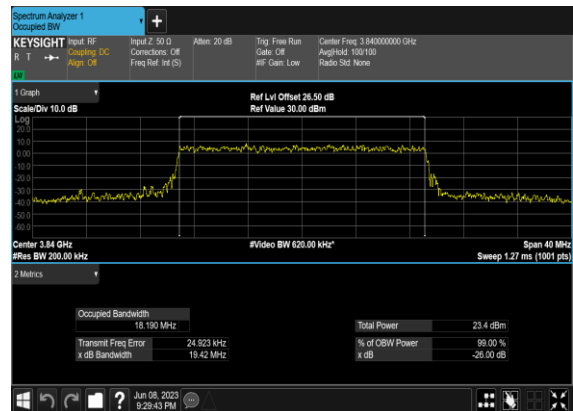
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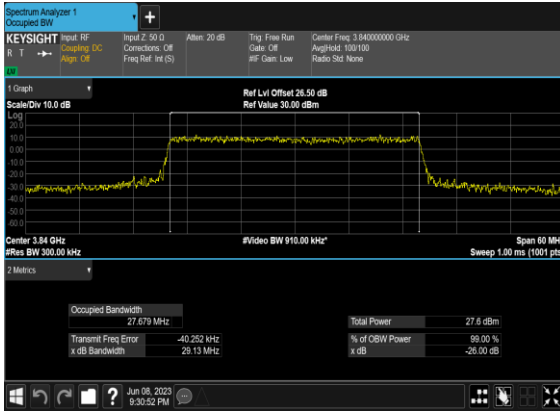
### N77(20M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



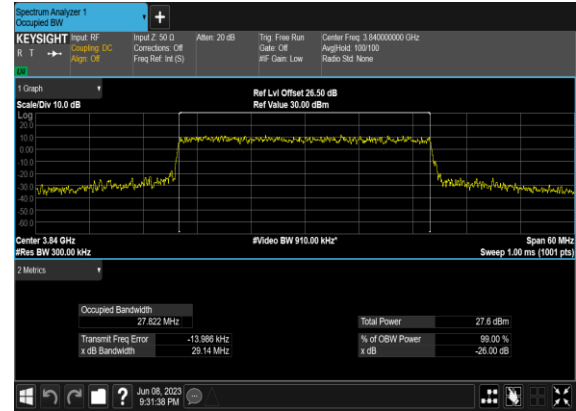
### N77(20M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



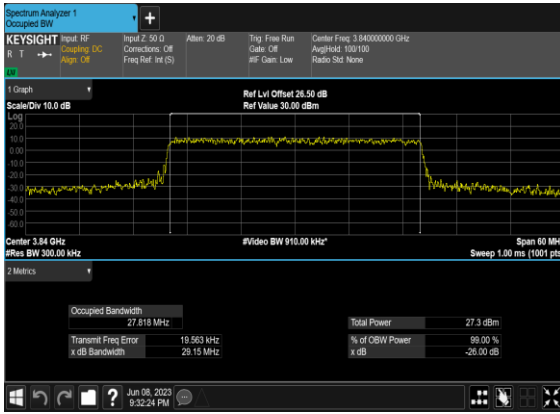
### N77(30M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



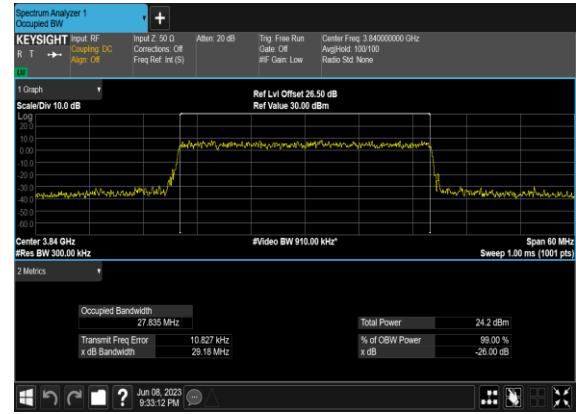
### N77(30M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



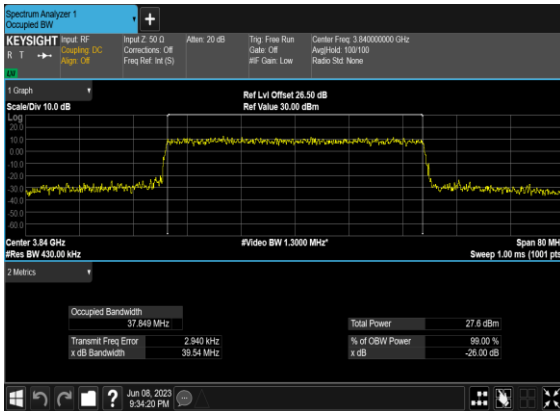
### N77(30M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



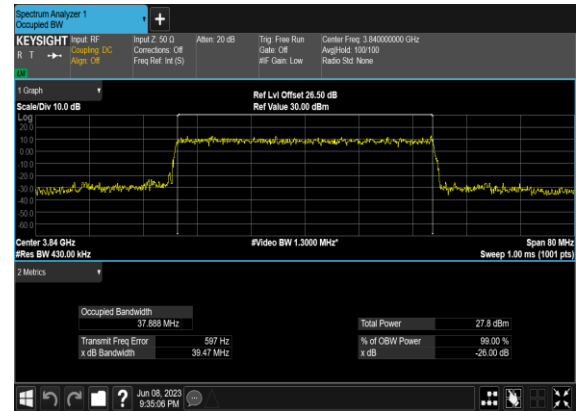
### N77(30M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



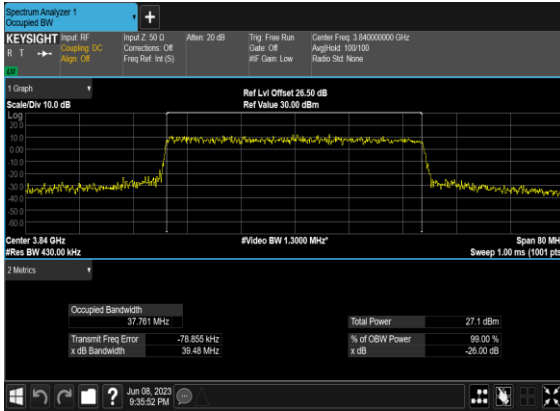
### N77(40M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



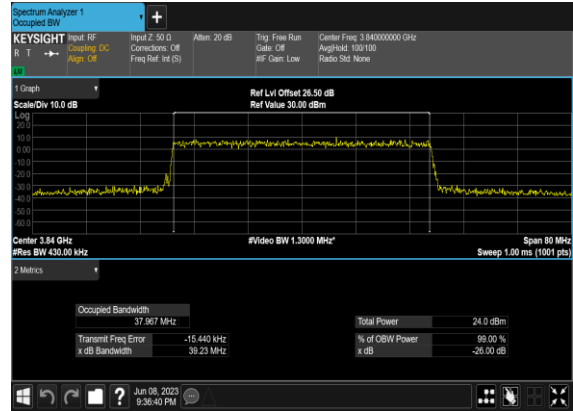
### N77(40M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



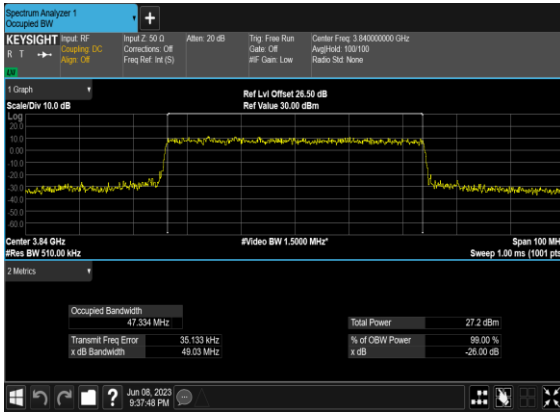
### N77(40M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



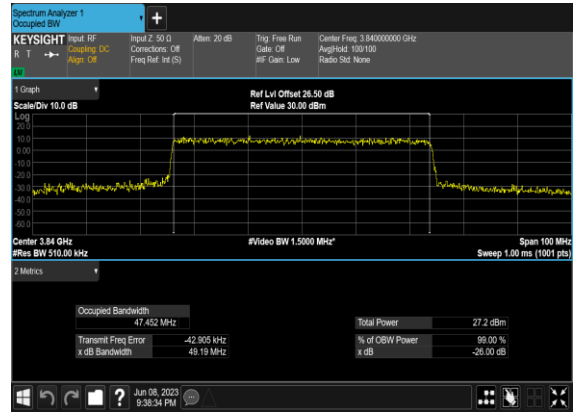
### N77(40M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



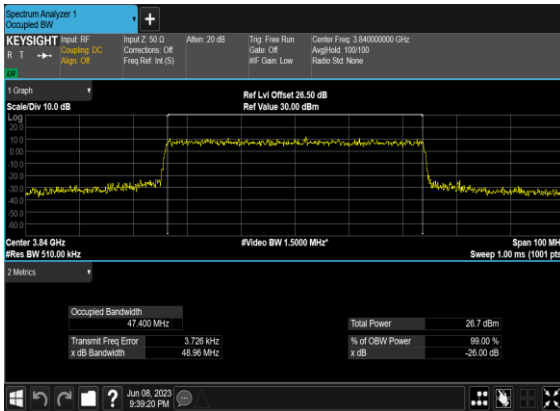
### N77(50M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



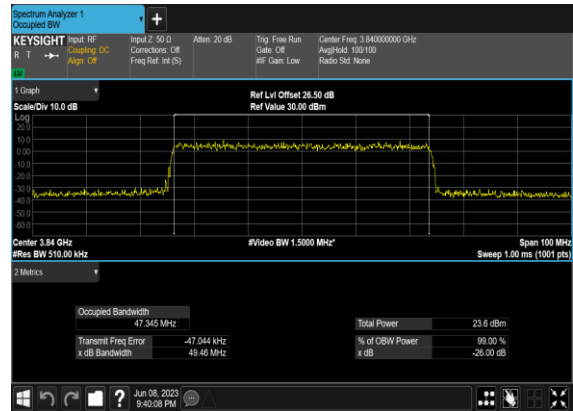
### N77(50M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



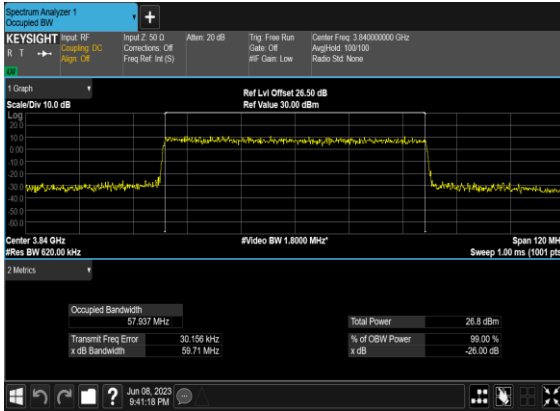
### N77(50M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



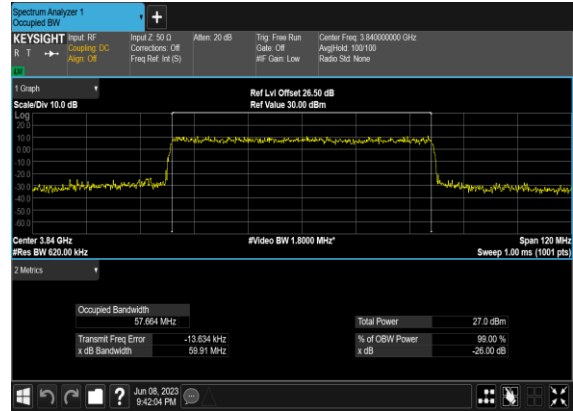
### N77(50M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



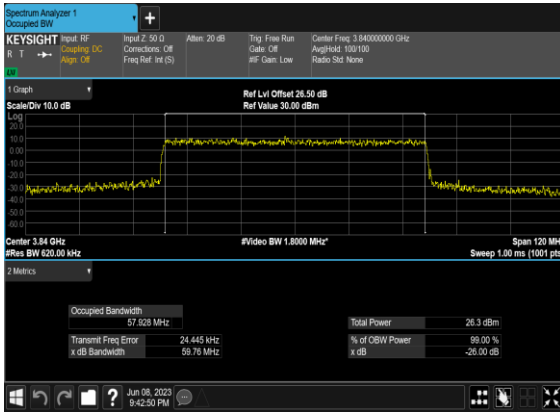
### N77(60M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



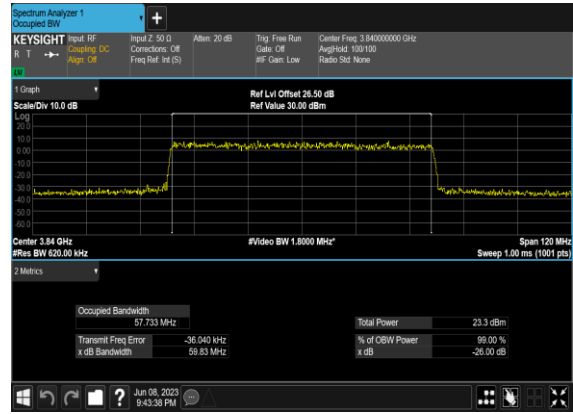
### N77(60M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



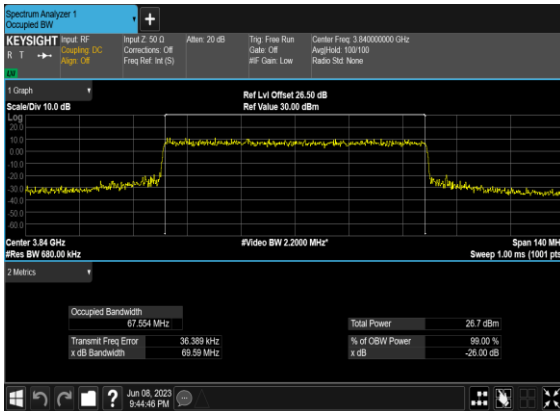
### N77(60M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



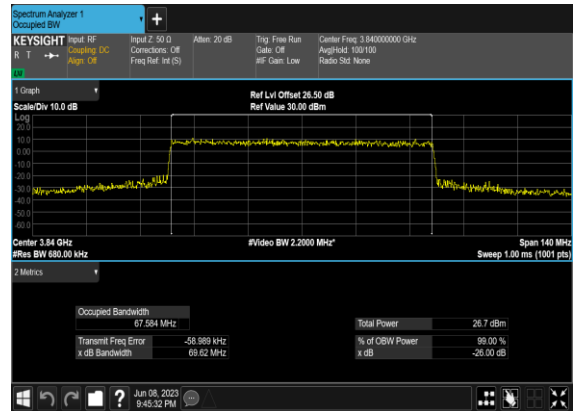
### N77(60M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



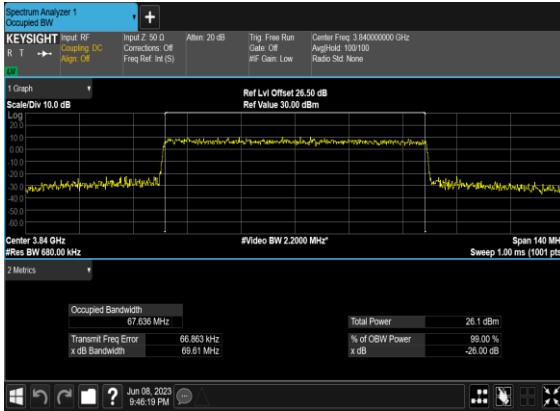
### N77(70M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



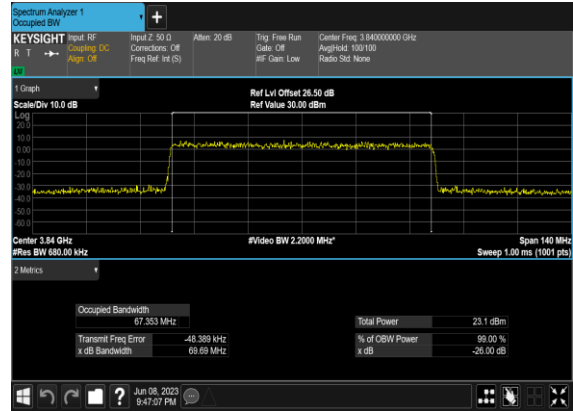
### N77(70M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



### N77(70M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



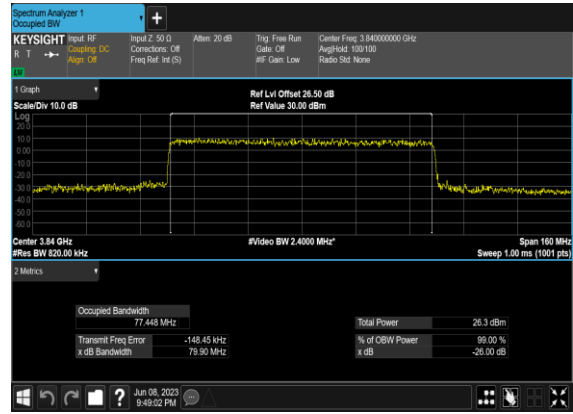
### N77(70M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



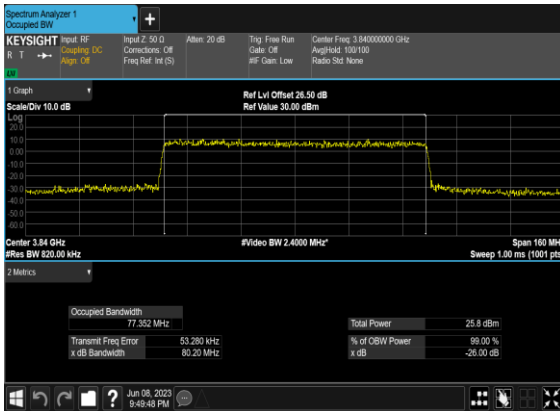
### N77(80M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



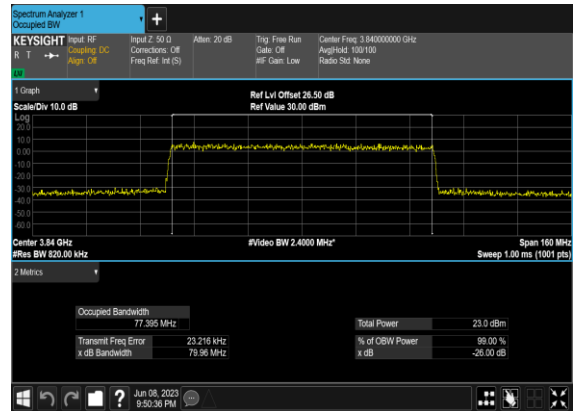
### N77(80M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



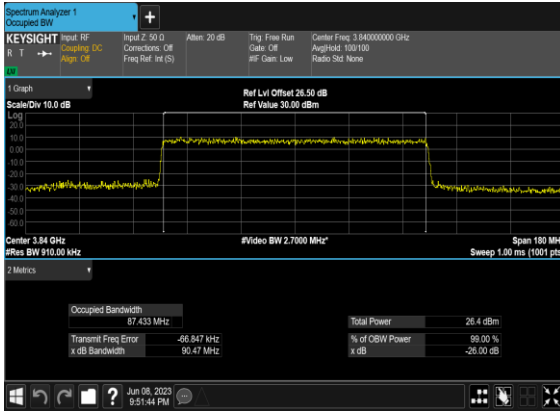
### N77(80M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



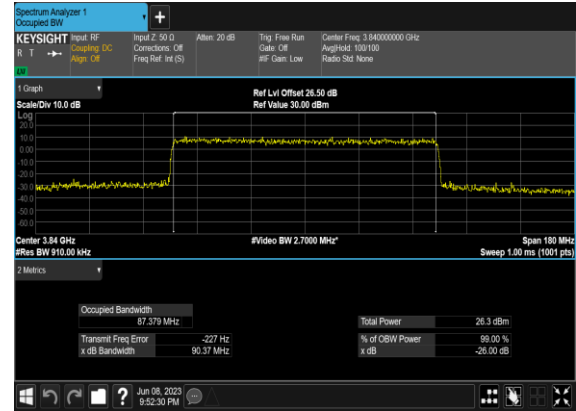
### N77(80M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



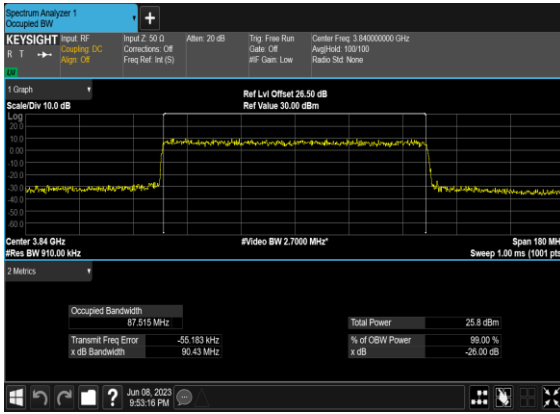
### N77(90M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



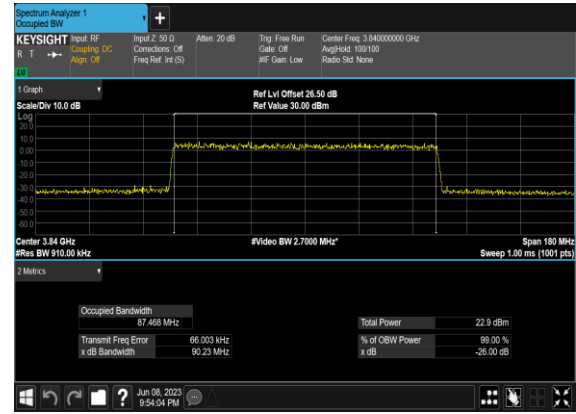
### N77(90M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



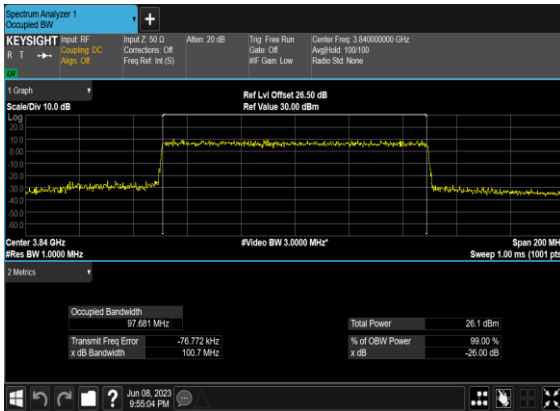
### N77(90M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



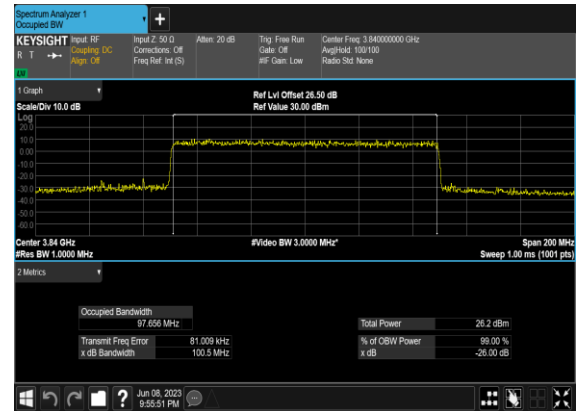
### N77(90M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



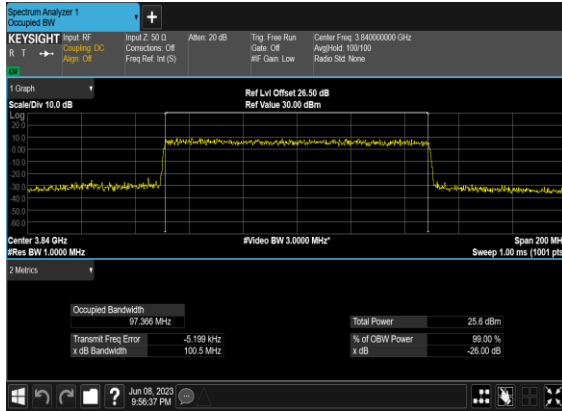
### N77(100M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



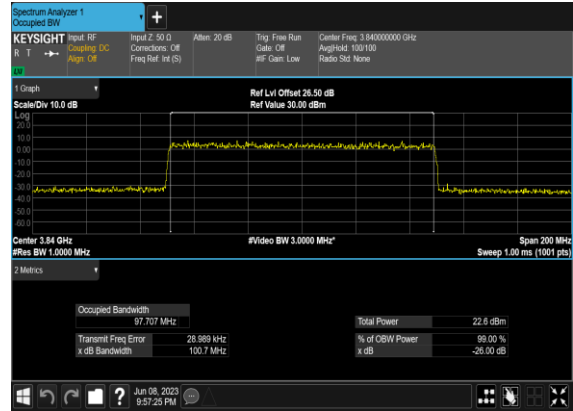
### N77(100M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



# N77(100M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



# N77(100M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



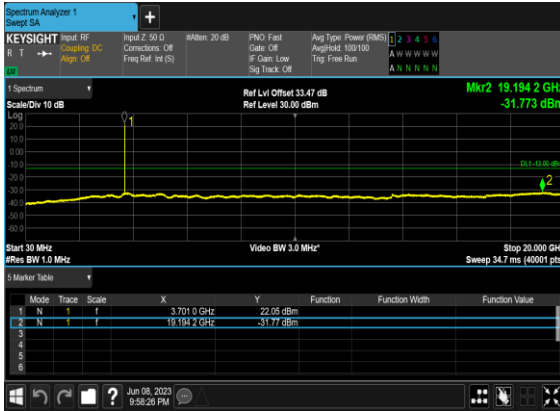
## Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

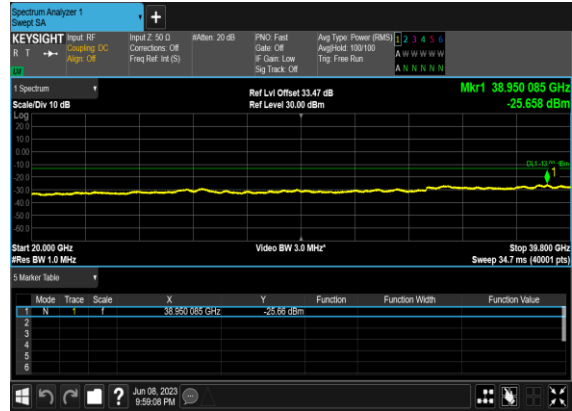
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>

N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



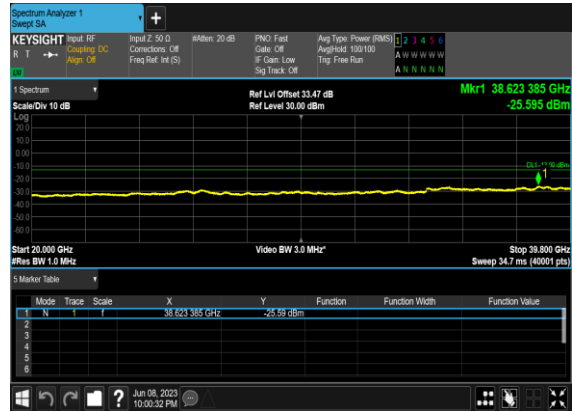
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



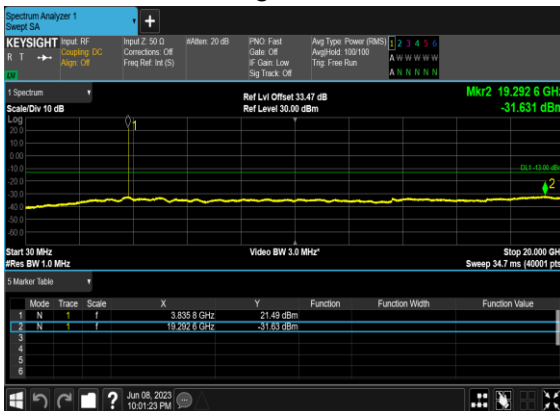
N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



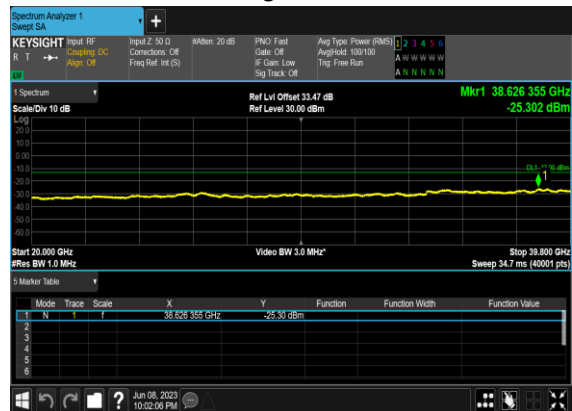
N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



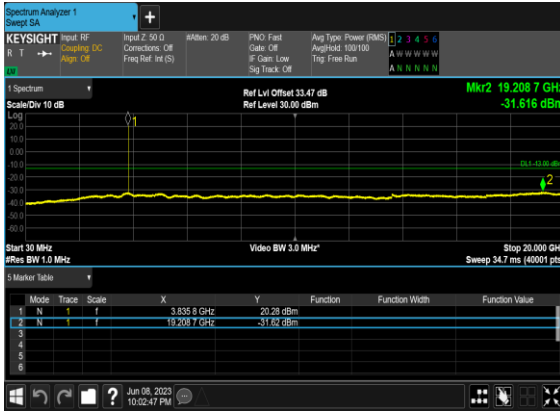
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



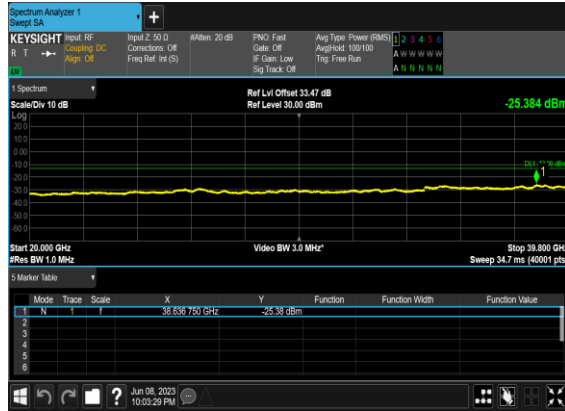
N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



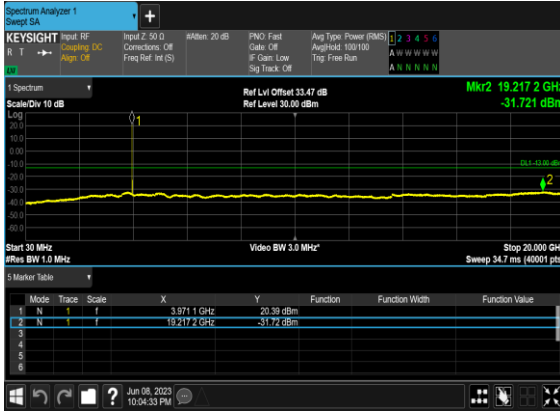
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



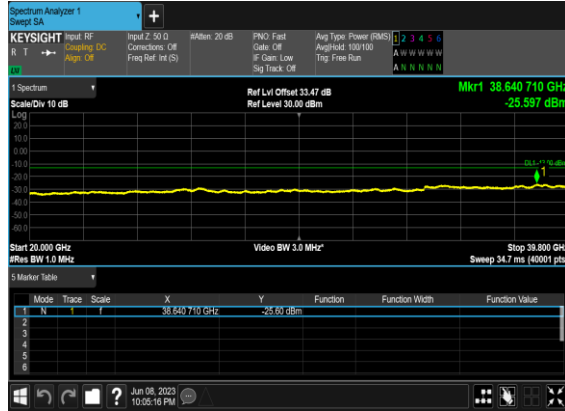
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



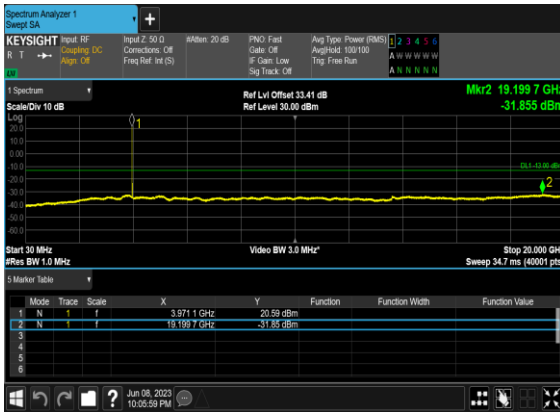
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



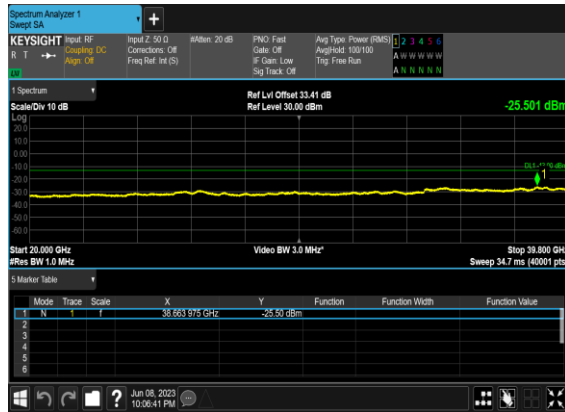
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



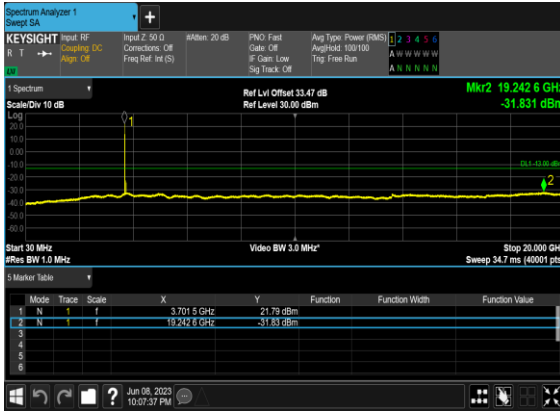
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



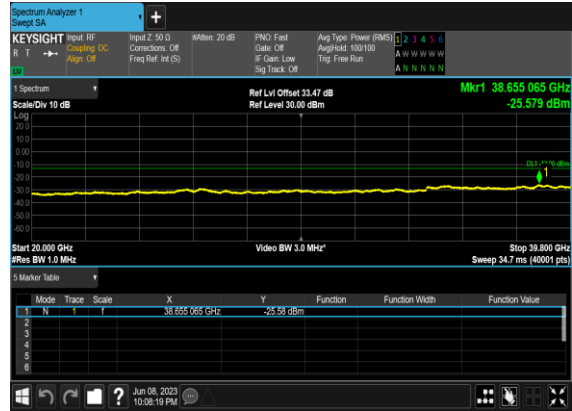
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



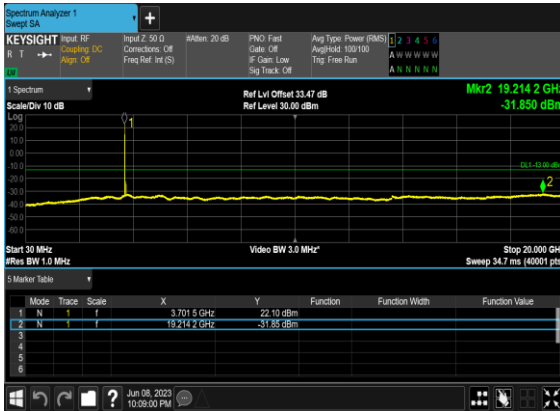
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



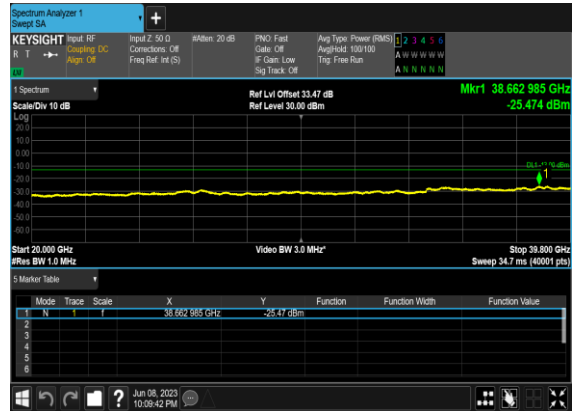
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



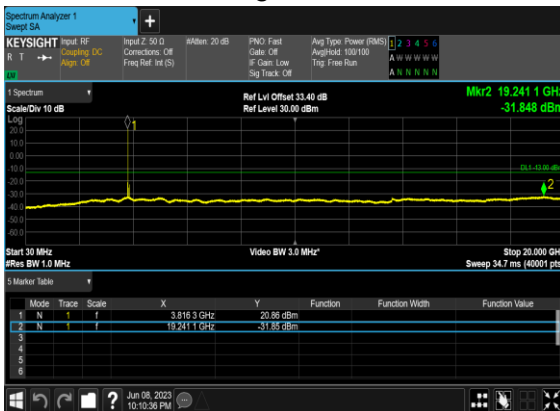
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



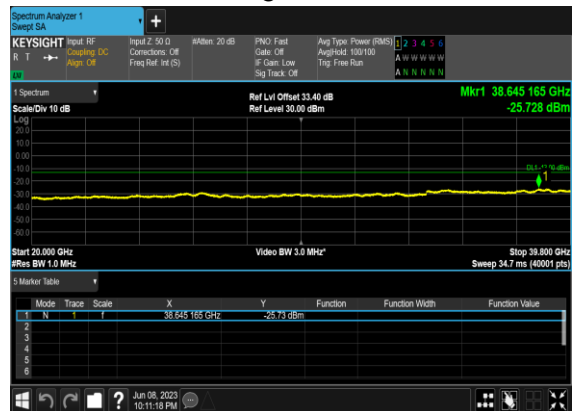
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



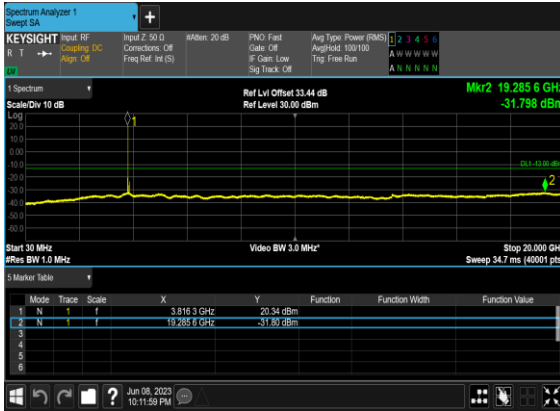
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



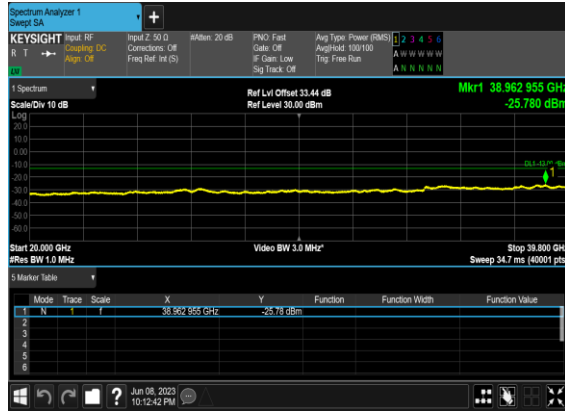
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



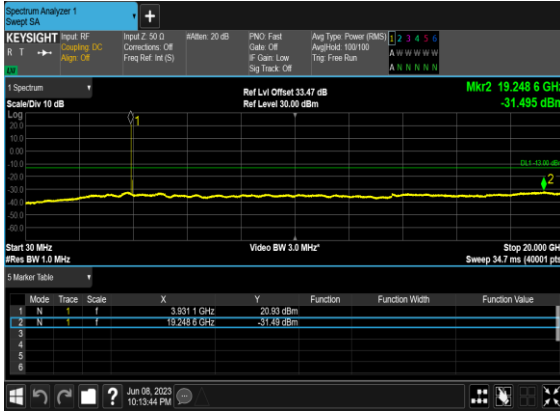
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



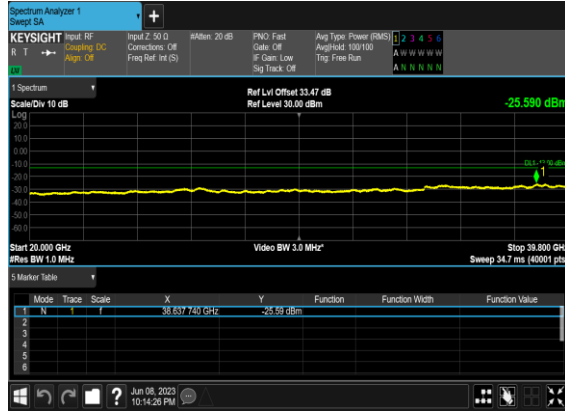
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



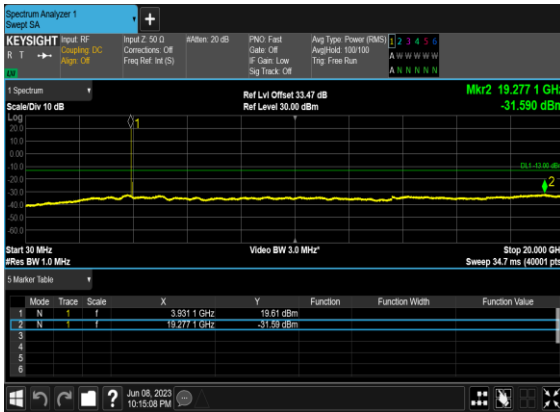
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



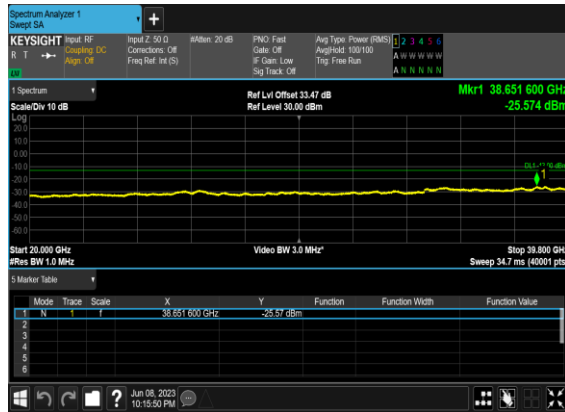
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



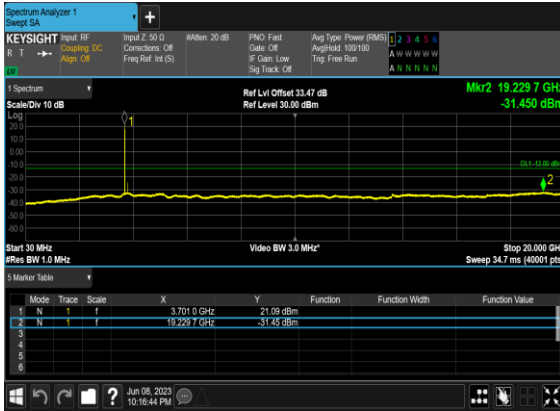
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



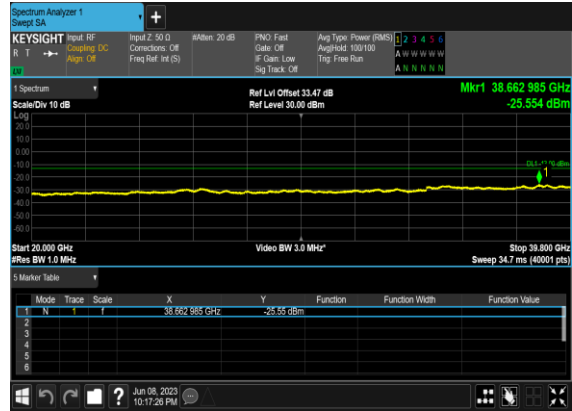
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



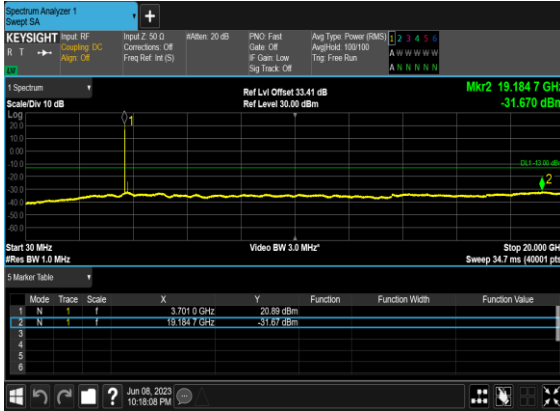
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



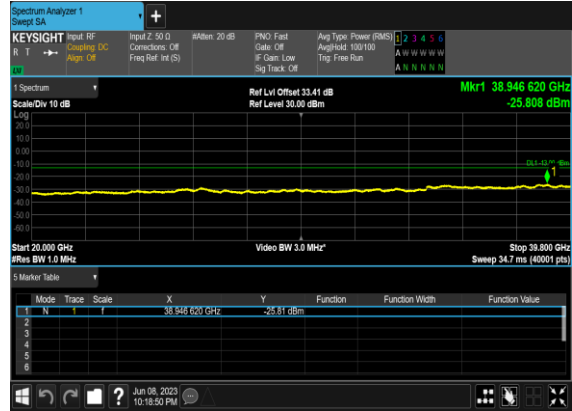
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



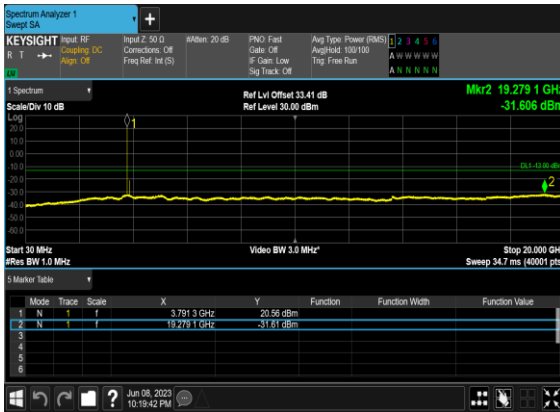
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



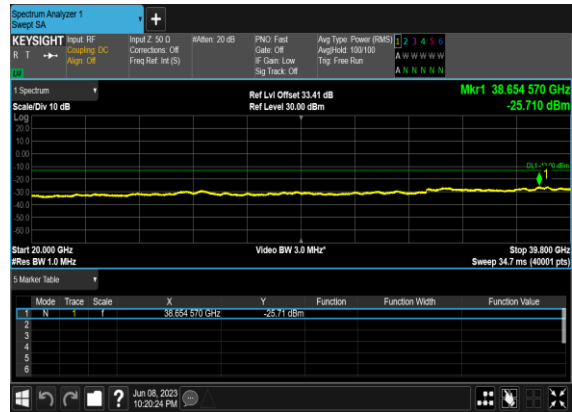
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



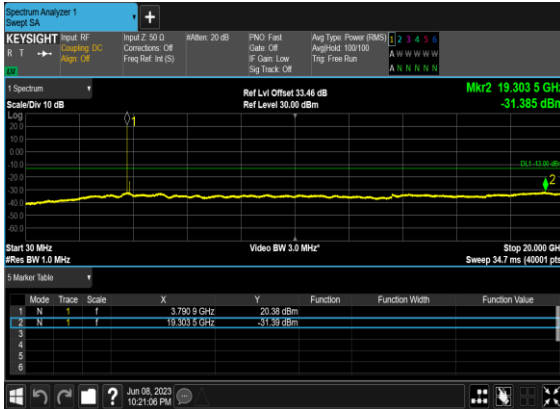
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



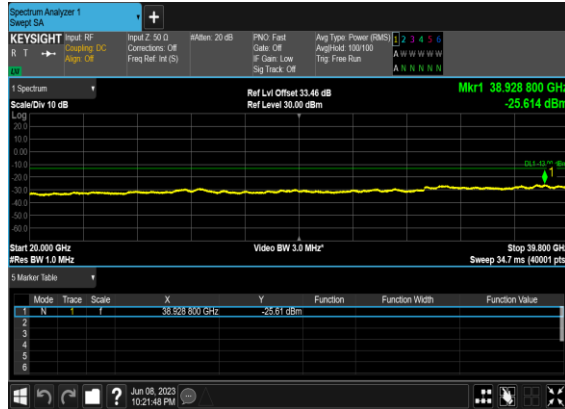
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



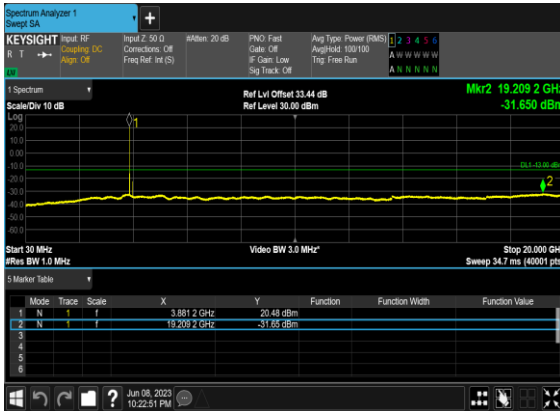
### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



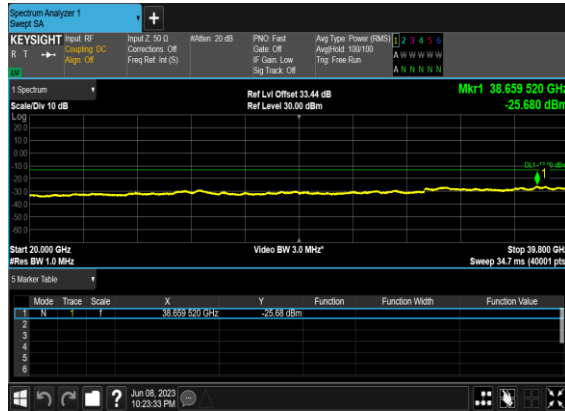
### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



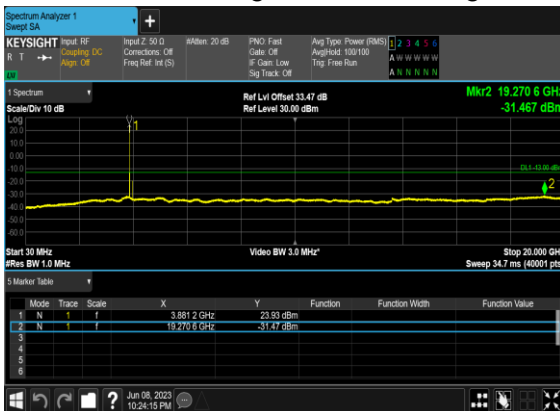
### N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



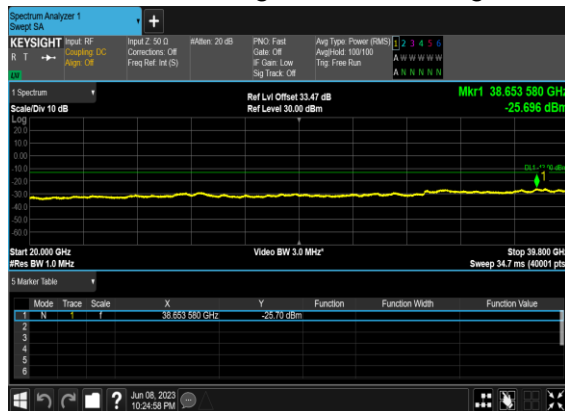
### N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



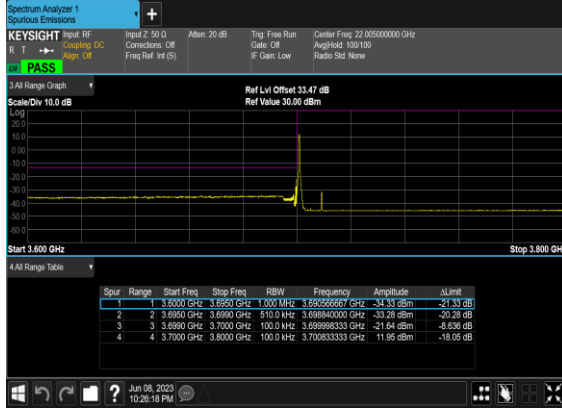
### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



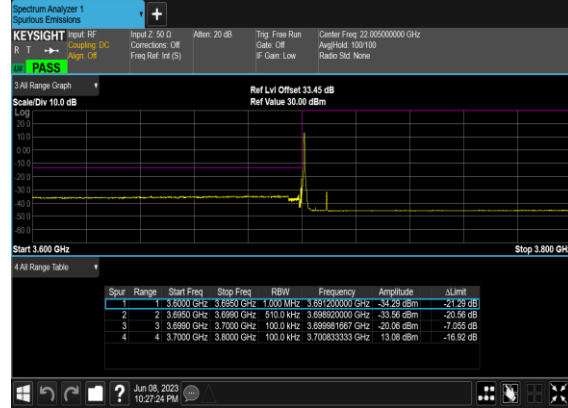
## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

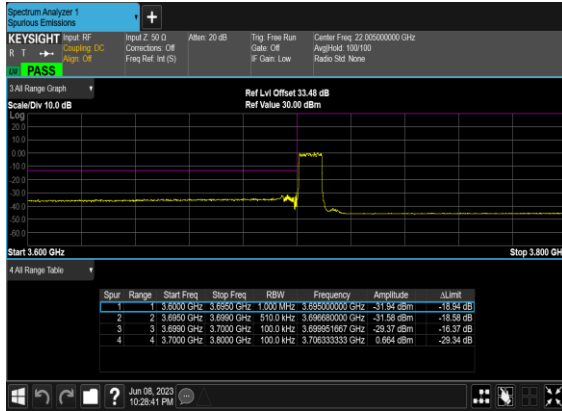
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



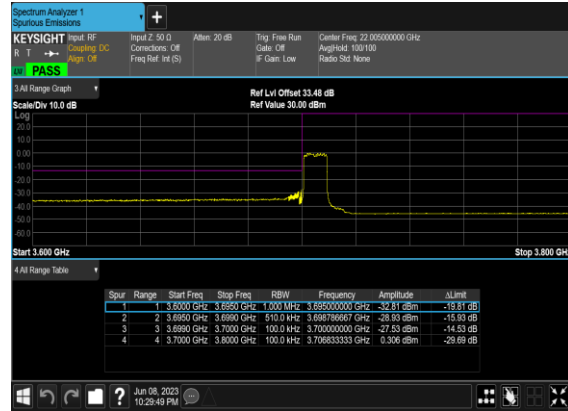
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



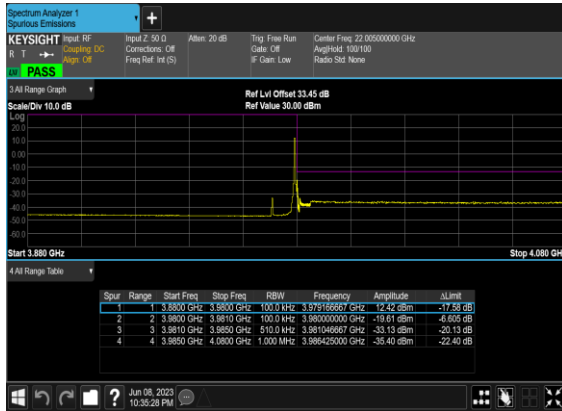
### N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



### N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH

