

# FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.  
EQUIPMENT : Mobile Phone  
BRAND NAME : Xiaomi  
MODEL NAME : 2405CPX3DG  
FCC ID : 2AFZZPX3DG  
STANDARD : 47 CFR Part 2, Part 27 Subpart Q  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)  
TEST DATE(S) : Apr. 03, 2024 ~ Apr 26, 2024

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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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 44.47 dB at 10356.00 MHz

**Conformity Assessment Condition:**

- 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.
- 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

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2405CPX3DG
FCC ID	2AFZZPX3DG
IMEI Code	Conducted : 866568070020507/866568070020515 Radiation : 866568070019426/866568070019434
HW Version	135100N8
SW Version	Xiaomi HyperOS 1.0
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
SCS	30kHz
Bandwidth	n77/n78: 10 / 15 / 20 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	<b>Open:</b> <Ant. 1> 5G NR n77: -3.3 dBi 5G NR n78: -3.3 dBi <Ant. 6> 5G NR n77: -6.0 dBi 5G NR n78: -6.0 dBi <Ant. 7> 5G NR n77: -0.15 dBi 5G NR n78: -0.15 dBi <Ant. 8> 5G NR n77: -2.5 dBi 5G NR n78: -2.5 dBi <b>Close:</b> <Ant. 1> 5G NR n77: -6.6 dBi

	5G NR n78: -6.6 dBi <b>&lt;Ant. 6&gt;</b> 5G NR n77: -6.2 dBi 5G NR n78: -6.2 dBi <b>&lt;Ant. 7&gt;</b> 5G NR n77: -1.7 dBi 5G NR n78: -1.7 dBi <b>&lt;Ant. 8&gt;</b> 5G NR n77: -5.0 dBi 5G NR n78: -5.0 dBi
<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 is shown in the report, 5G NR n77/n78 for Antenna 7.
2. The device supports n77(1T4R) SRS resources on Antenna 1/6/7/8, only the test data of worst Antenna 7 is showed in the report according to the maximum power.
3. 5G NR n77 support UL MIMO mode for Ant(7+6) / Ant(7+1) / Ant(7+8) / Ant(6+1) / Ant(6+8) / Ant(1+8), only the worst test data of Ant(7+1) is shown in the report.
4. 5G NR n77/n78 UL\_MIMO mode only supports CP-OFDM Modulation, the MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
5. 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.
6. 5G NR n77 supports SA mode and n78 supports SA and NSA mode. The whole testing has assessed SA mode for n77 by referring to the higher conducted power for conducted test items.
7. The device supports HPUE mode for 5G NR n77/n78.
8. The device supports two PAs for 5G NR n78(main PA for SA mode and other PA for NSA mode), the maximum power of main PA is higher than the other PA, therefore, we chose higher power of main PA to calculate the EIRP and show in the report.
9. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
10. 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 Maximum EIRP Power and Emission Designator

5G NR n77 SA for SCS 30kHz		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	3455.01 ~ 3544.98	0.3524	8M55G7D	0.3373	8M58W7D
15	3457.50 ~ 3542.49	0.3266	13M6G7D	0.3273	13M6W7D
20	3460.02 ~ 3540.00	0.5070	18M2G7D	0.4018	18M2W7D
25	3462.51 ~ 3537.48	0.3381	23M2G7D	0.3436	23M3W7D
30	3465.00 ~ 3534.99	0.5188	27M8G7D	0.4093	27M9W7D
40	3470.01 ~ 3529.98	0.5070	37M9G7D	0.4018	37M9W7D
50	3475.02 ~ 3525.00	0.5346	47M5G7D	0.4140	47M5W7D
60	3480.00 ~ 3519.99	0.5012	57M8G7D	0.3972	57M9W7D
70	3485.01 ~ 3514.98	0.5236	67M5G7D	0.4111	67M6W7D
80	3490.02 ~ 3510.00	0.5321	77M5G7D	0.4102	77M7W7D
90	3495.00 ~ 3504.99	0.5358	87M4G7D	0.4159	87M7W7D
100	3500.01	0.5358	97M5G7D	0.4207	97M7W7D

5G NR n78 SA for SCS 30kHz		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	3455.01 ~ 3544.98	0.3606	8M59G7D	0.2844	8M58W7D
15	3457.50 ~ 3542.49	0.3548	13M6G7D	0.2793	13M6W7D
20	3460.02 ~ 3540.00	0.4436	18M2G7D	0.3565	18M2W7D
25	3462.51 ~ 3537.48	0.3622	23M2G7D	0.2851	23M3W7D
30	3465.00 ~ 3534.99	0.4656	27M9G7D	0.3631	27M9W7D
40	3470.01 ~ 3529.98	0.4498	37M9G7D	0.3499	38M0W7D
50	3475.02 ~ 3525.00	0.4732	47M6G7D	0.3707	47M6W7D
60	3480.00 ~ 3519.99	0.4529	57M9G7D	0.3556	58M0W7D
70	3485.01 ~ 3514.98	0.4667	67M5G7D	0.3741	67M6W7D
80	3490.02 ~ 3510.00	0.4764	77M6G7D	0.3819	77M7W7D
90	3495.00 ~ 3504.99	0.4831	87M5G7D	0.3908	87M7W7D
100	3500.01	0.5333	97M6G7D	0.4198	97M7W7D

5G NR n77 UL MIMO for SCS 30kHz		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.3670	8M57G7D	0.3152	8M59W7D
15	3457.50 ~ 3542.49	0.3643	13M6G7D	0.3278	13M6W7D
20	3460.02 ~ 3540.00	0.3982	18M2G7D	0.3480	18M3W7D
25	3462.51 ~ 3537.48	0.3713	23M3G7D	0.3558	23M3W7D
30	3465.00 ~ 3534.99	0.3909	27M9G7D	0.3529	27M9W7D
40	3470.01 ~ 3529.98	0.3788	37M9G7D	0.3737	37M9W7D
50	3475.02 ~ 3525.00	0.3965	47M5G7D	0.3621	47M6W7D
60	3480.00 ~ 3519.99	0.3639	57M8G7D	0.3359	57M9W7D
70	3485.01 ~ 3514.98	0.3701	67M6G7D	0.3310	67M7W7D
80	3490.02 ~ 3510.00	0.3816	77M6G7D	0.3366	77M7W7D
90	3495.00 ~ 3504.99	0.3883	87M7G7D	0.3514	87M6W7D
100	3500.01	0.4019	97M5G7D	0.3358	97M6W7D

5G NR n78 UL MIMO for SCS 30kHz		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.2962	8M57G7D	0.2610	8M59W7D
15	3457.50 ~ 3542.49	0.2965	13M6G7D	0.2593	13M6W7D
20	3460.02 ~ 3540.00	0.2915	18M2G7D	0.2576	18M3W7D
25	3462.51 ~ 3537.48	0.2901	23M3G7D	0.2559	23M3W7D
30	3465.00 ~ 3534.99	0.2918	27M9G7D	0.2593	27M9W7D
40	3470.01 ~ 3529.98	0.2883	37M9G7D	0.2538	37M9W7D
50	3475.02 ~ 3525.00	0.3042	47M5G7D	0.2656	47M6W7D
60	3480.00 ~ 3519.99	0.2865	57M8G7D	0.2568	57M9W7D
70	3485.01 ~ 3514.98	0.3052	67M6G7D	0.2632	67M7W7D
80	3490.02 ~ 3510.00	0.3031	77M6G7D	0.2657	77M7W7D
90	3495.00 ~ 3504.99	0.3014	87M7G7D	0.2661	87M6W7D
100	3500.01	0.3014	97M5G7D	0.2599	97M6W7D

**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.

### 1.7 Testing Site

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

### 1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH04-KS	AUDIX	E3	210616

### 1.9 Applied Standards

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

- 47 CFR Part 2, Part 27 Subpart Q
- ANSI C63.26-2015
- FCC KDB 971168 Power Meas License Digital Systems D01 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

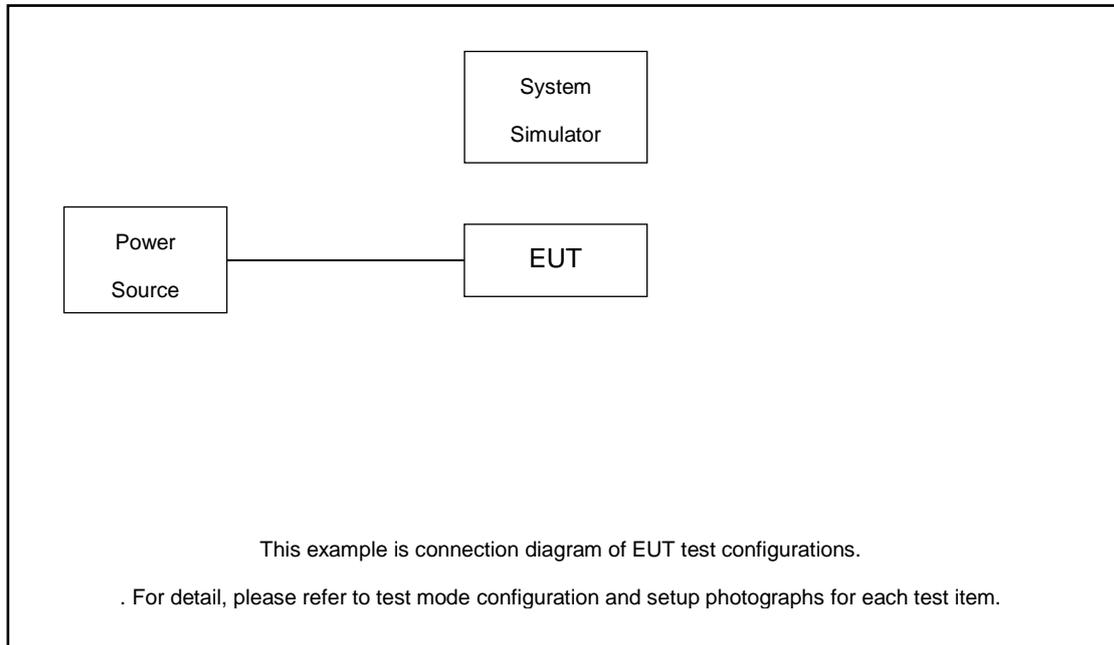
### 2.1 Test Mode

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

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y-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	16 QAM	64 QAM	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	v	v		
	n78	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v		
Peak-to-Ave rage Ratio	n77			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		
Conducted Spurious Emission	n77	v								v		v	v				v			v	v	v		
Frequency Stability	n77										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	v	v		
	n78	v	v	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	
	n78	Worst Case																					v	
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. 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. 4. Frequency Stability : Normal Voltage = 3.86V; Low Voltage =3.6V; High Voltage =4.3V.																							

## 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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

## 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 :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 6.5 + 20 = 26.5 \text{ (dB)} \end{aligned}$$

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

5G n77/n78 Channel and Frequency List for SCS 30kHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
25	Channel	630834	633334	635832
	Frequency	3462.51	3500.01	3537.48
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

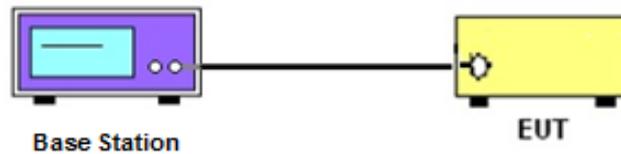
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

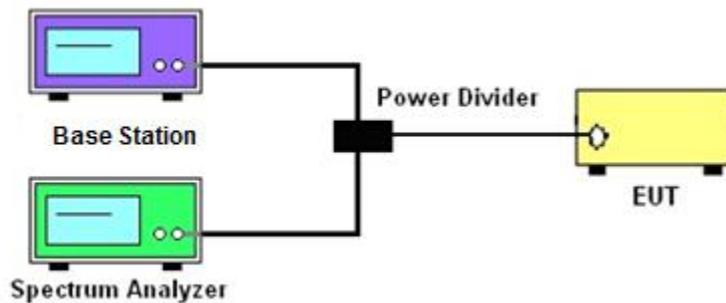
See list of measuring instruments of this test report.

#### 3.2 Test Setup

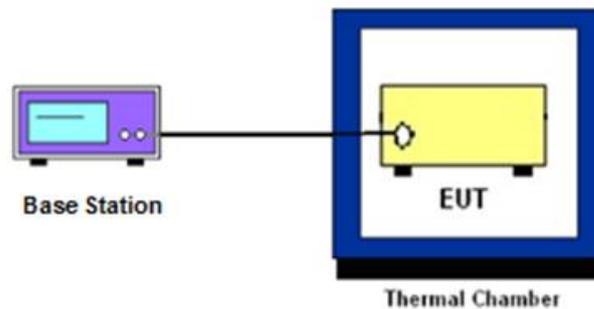
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth, 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 Measurement**

### **3.4.1 Description of the Conducted Output Power Measurement**

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

### **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 EIRP

### 3.6.1 Description of EIRP Limit

#### § 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

### 3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2.  $EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , 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

## 3.7 Occupied Bandwidth

### 3.7.1 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.

### 3.7.2 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.

## 3.8 Conducted Band Edge Measurement

### 3.8.1 Description of Conducted Band Edge Measurement

#### § 27.53 (n)(2)

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.

### 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 band edges of low and high channels for the highest RF powers were measured.
4. Set RBW  $\geq 1\%$  EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW  $\geq 500$ KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

## 3.9 Conducted Spurious Emission Measurement

### 3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10<sup>th</sup> harmonic.

### 3.9.2 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. Checked that all the results comply with the emission limit line.

## 3.10 Frequency Stability Measurement

### 3.10.1 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.

### 3.10.2 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.

### 3.10.3 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.

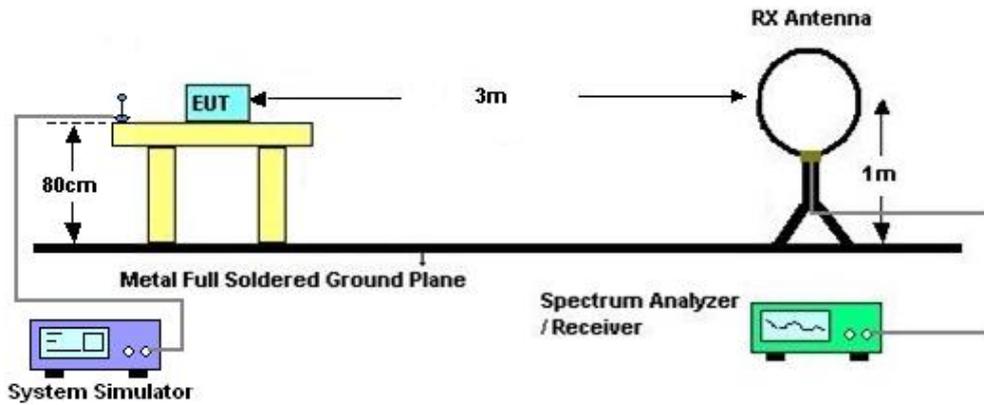
## 4 Radiated Test Items

### 4.1 Measuring Instruments

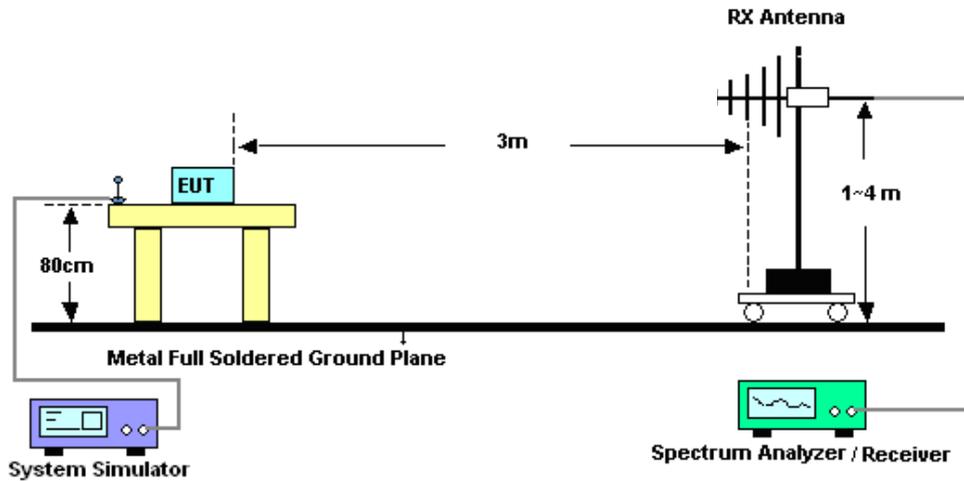
See list of measuring instruments of this test report.

### 4.2 Test Setup

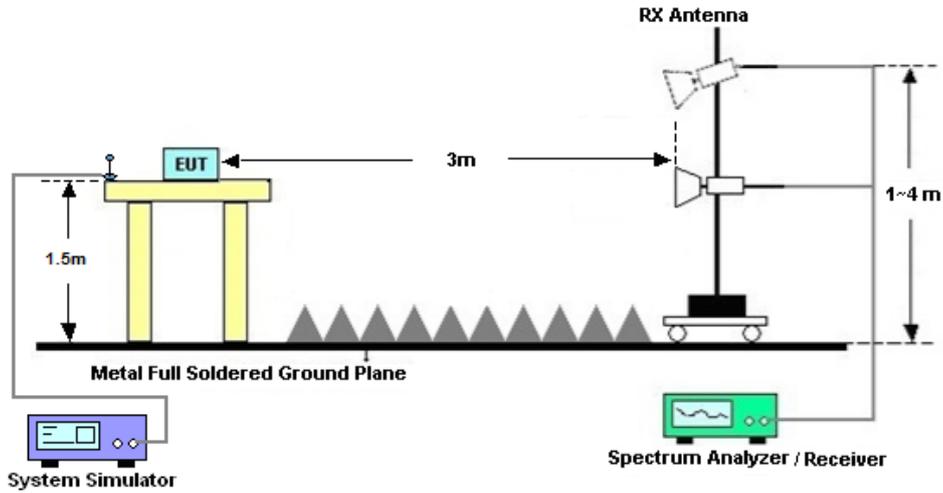
#### 4.2.1 For radiated test below 30MHz



#### 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 Measurement

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

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.  
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



## 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. 11, 2023	Apr. 03, 2024~ Apr. 26, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Apr. 03, 2024~ Apr. 26, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Apr. 03, 2024~ Apr. 26, 2024	Jul. 05, 2024	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 10, 2023	Apr. 14, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Apr. 14, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Aug. 19, 2023	Apr. 14, 2024	Aug. 18, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251694	1GHz~18GHz	Jul. 12, 2023	Apr. 14, 2024	Jul. 11, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2024	Apr. 14, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Apr. 14, 2024	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2024	Apr. 14, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 10, 2023	Apr. 14, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Apr. 14, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 14, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 14, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 14, 2024	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

Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.82dB
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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))	3.56dB
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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))	3.54dB
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----- THE END -----



## Appendix A. Test Results of Conducted Test

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

# FR1 N77(ANT7)

## Transmitter Conducted Output Power And EIRP, (G<sub>T</sub> - L<sub>C</sub>)=-0.15dB

NR Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	27.1	26.95	0.4955
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	27.06	26.91	0.4909
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	26.09	25.94	0.3926
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.06	26.91	0.4909
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.98	26.83	0.4819
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.89	25.74	0.3750
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	27.2	27.05	0.5070
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	27.11	26.96	0.4966
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	26.19	26.04	0.4018
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	27.29	27.14	0.5176
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	27.24	27.09	0.5117
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	26.24	26.09	0.4064
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.2	27.05	0.5070
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.05	26.9	0.4898
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.09	25.94	0.3926
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	27.3	27.15	0.5188
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	27.24	27.09	0.5117
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	26.27	26.12	0.4093
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	27.16	27.01	0.5023
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	27.11	26.96	0.4966
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	26.12	25.97	0.3954
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.08	26.93	0.4932
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.91	26.76	0.4742
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.95	25.8	0.3802
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	27.2	27.05	0.5070
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	27.15	27	0.5012
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	26.19	26.04	0.4018
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	27.32	27.17	0.5212
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	27.25	27.1	0.5129
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	26.29	26.14	0.4111
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.28	27.13	0.5164
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.11	26.96	0.4966
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.15	26	0.3981
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	27.43	27.28	0.5346
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	27.3	27.15	0.5188
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	26.32	26.17	0.4140
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	27.15	27	0.5012
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	27.15	27	0.5012
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	26.14	25.99	0.3972
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.05	26.9	0.4898

77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.01	26.86	0.4853
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.99	25.84	0.3837
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	27.12	26.97	0.4977
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	27.1	26.95	0.4955
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	26.1	25.95	0.3936
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	27.32	27.17	0.5212
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	27.34	27.19	0.5236
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	26.29	26.14	0.4111
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.32	27.17	0.5212
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.29	27.14	0.5176
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.24	26.09	0.4064
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	27.27	27.12	0.5152
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	27.16	27.01	0.5023
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	26.15	26	0.3981
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	27.41	27.26	0.5321
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	27.36	27.21	0.5260
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	26.28	26.13	0.4102
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.4	27.25	0.5309
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.35	27.2	0.5248
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.28	26.13	0.4102
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	27.34	27.19	0.5236
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	27.15	27	0.5012
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	26.27	26.12	0.4093
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	27.41	27.26	0.5321
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	27.3	27.15	0.5188
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	26.32	26.17	0.4140
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.44	27.29	0.5358
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.28	27.13	0.5164
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.34	26.19	0.4159
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	27.43	27.28	0.5346
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	27.41	27.26	0.5321
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	26.33	26.18	0.4150
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	27.06	26.91	0.4909
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.4	27.25	0.5309
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	27.17	27.02	0.5035
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	27.08	26.93	0.4932
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.44	27.29	0.5358
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	27.19	27.04	0.5058
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	26.03	25.88	0.3873
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.39	26.24	0.4207
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	26.11	25.96	0.3945
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	24.55	24.4	0.2754
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.58	24.43	0.2773
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	24.31	24.16	0.2606
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	22.56	22.41	0.1742
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.7	22.55	0.1799
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	22.46	22.31	0.1702
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	25.39	25.24	0.3342

77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	26.02	25.87	0.3864
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	25.75	25.6	0.3631
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	24.8	24.65	0.2917
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	25.07	24.92	0.3105
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	24.07	23.92	0.2466
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.29	25.14	0.3266
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.2	25.05	0.3199
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.43	25.28	0.3373
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@1	25.61	25.46	0.3516
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	25.62	25.47	0.3524
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	24.51	24.36	0.2729
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	25.1	24.95	0.3126
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	25.08	24.93	0.3112
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.3	25.15	0.3273
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.18	25.03	0.3184
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.13	24.98	0.3148
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.11	23.96	0.2489
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	25.29	25.14	0.3266
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.2	25.05	0.3199
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.16	24.01	0.2518
77	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	1@1	25.35	25.2	0.3311
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	25.21	25.06	0.3206
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	25.51	25.36	0.3436
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.38	25.23	0.3334
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.39	25.24	0.3342
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.16	24.01	0.2518
77	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	1@1	25.44	25.29	0.3381
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	25.23	25.08	0.3221
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	24.19	24.04	0.2535

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00366	PASS	NV
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00414	PASS	LV
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00524	PASS	HV
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00525	PASS	-30°C
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00378	PASS	-20°C
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00646	PASS	-10°C
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00465	PASS	0°C
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00432	PASS	10°C
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00175	PASS	20°C
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00123	PASS	30°C
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00372	PASS	40°C
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	0.00264	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	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	3.78	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	3.81	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	4.41	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	4.54	13	PASS

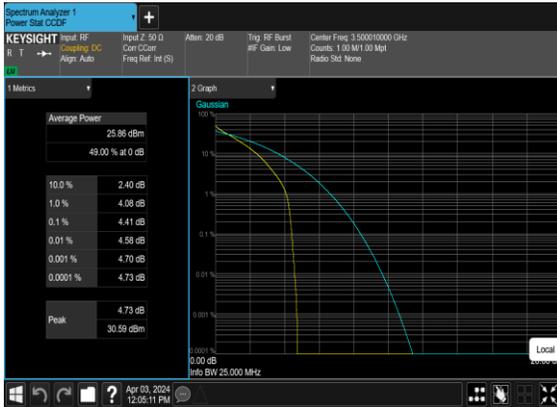
N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(20M)\_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	20	633334	3500.01	CP-OFDM QPSK	51@0	18.194	19.28
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.241	19.22
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.196	18.99
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.206	19.3
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.772	29.4
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.835	29.31
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.852	29.38
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.896	29.25
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.916	39.83
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.944	39.65
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.91	39.2
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.849	39.09
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.503	49.2
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.484	49.22
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.546	48.97
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.432	49.27
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.813	59.96
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.914	60.01
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.935	59.8
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.828	60.22
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.499	69.67
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.445	70.1
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.552	70.03
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.56	69.69
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.482	79.87
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.65	80.13
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.519	80.19
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.301	79.91
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.448	90.12
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.507	90.32
77	30	90	633334	3500.01	CP-OFDM	245@0	87.447	90.18

					64 QAM			
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.66	90.43
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.521	100.6
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.65	100.5
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.56	100.5
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.53	100.5
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5526	9.583
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.583	9.507
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5578	9.304
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5565	9.039
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.602	14.83
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.591	14.55
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.562	14.73
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.549	14.74
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.183	24.44
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.219	24.82
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.136	24.27
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.271	24.53

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



### N77(20M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



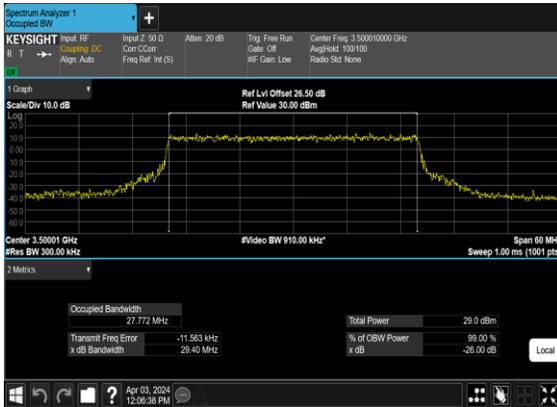
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### N77(20M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



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



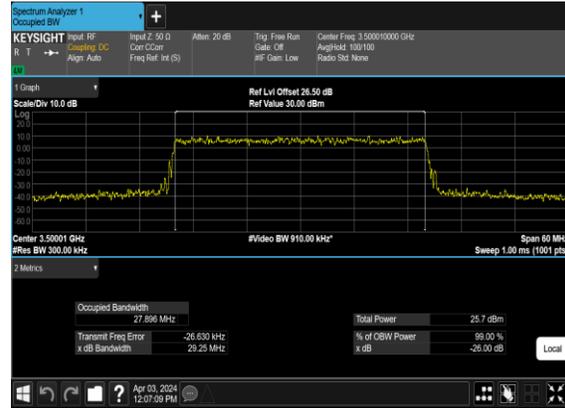
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### N77(30M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



### N77(30M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



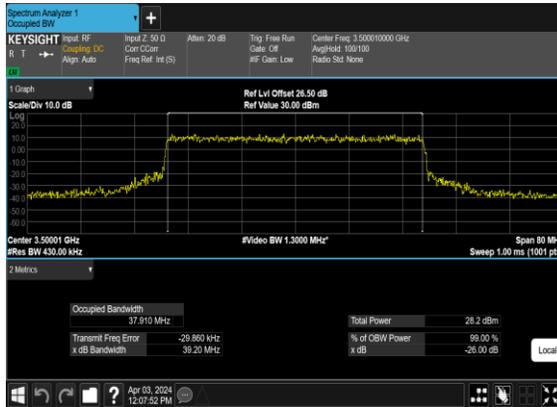
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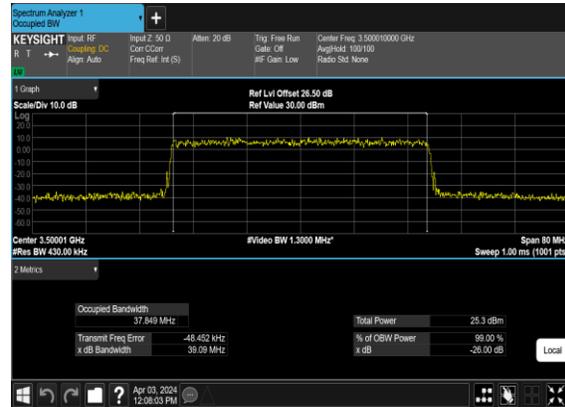
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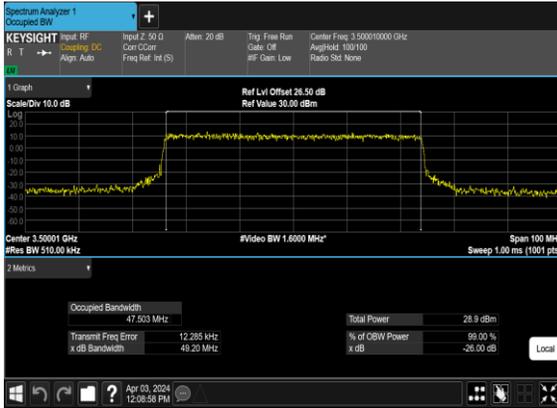
### N77(40M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



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



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



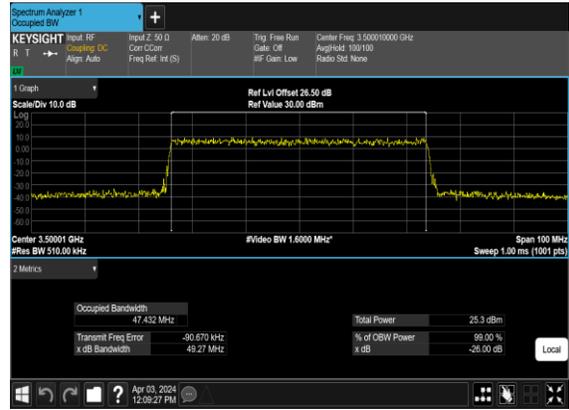
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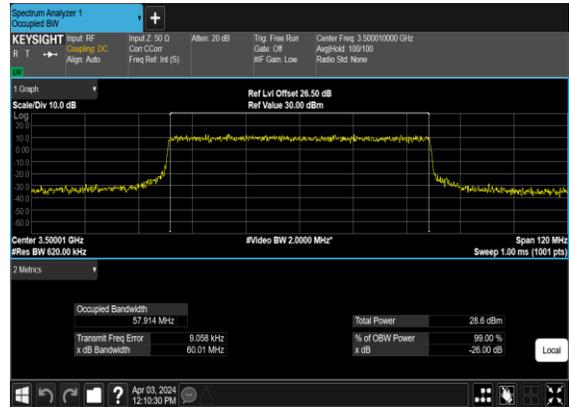
### N77(50M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



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



### N77(60M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



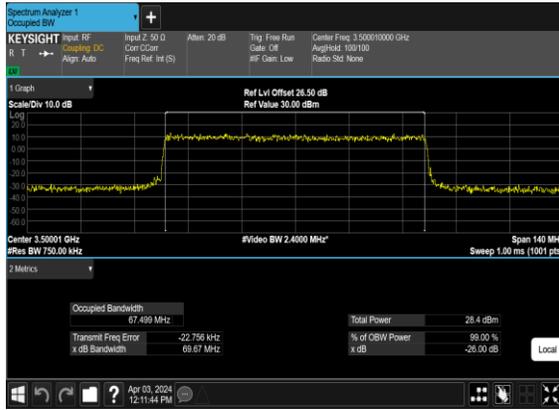
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### N77(60M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



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



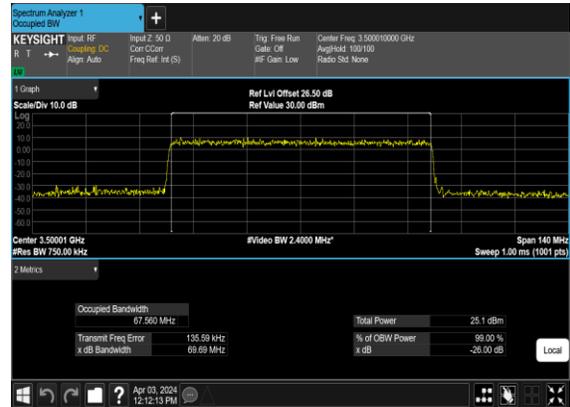
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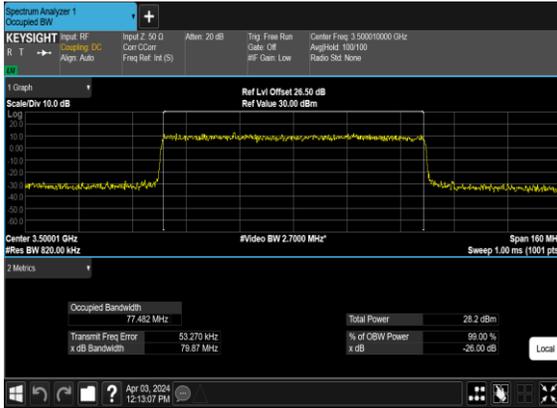
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### N77(70M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



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



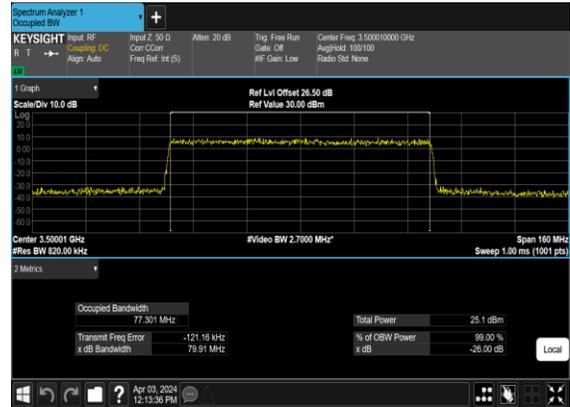
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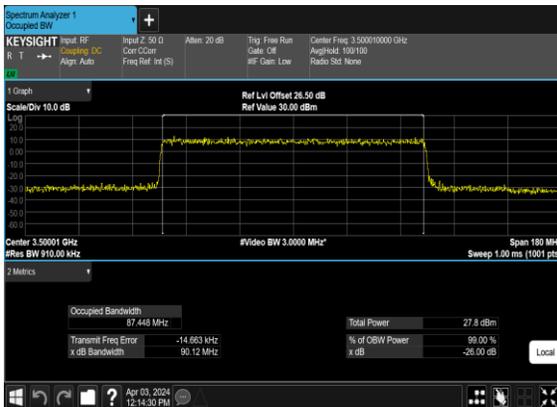
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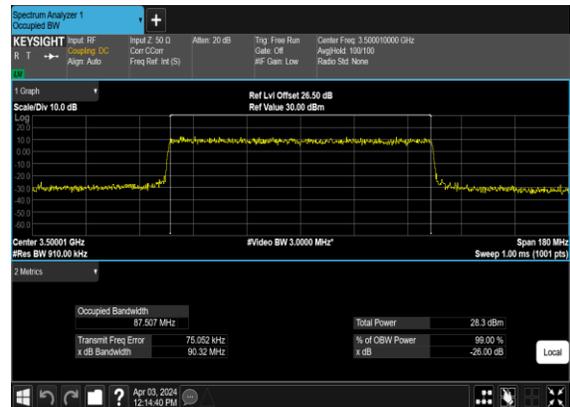
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### N77(90M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



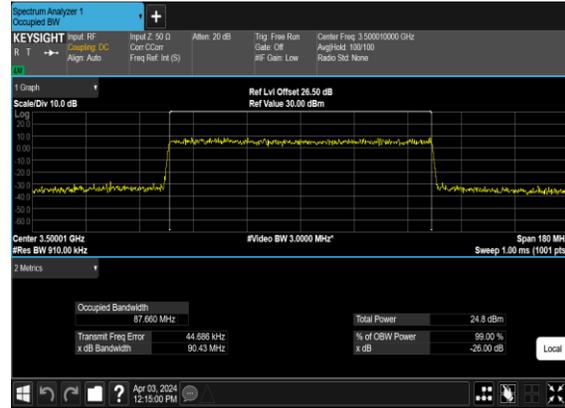
### N77(90M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



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



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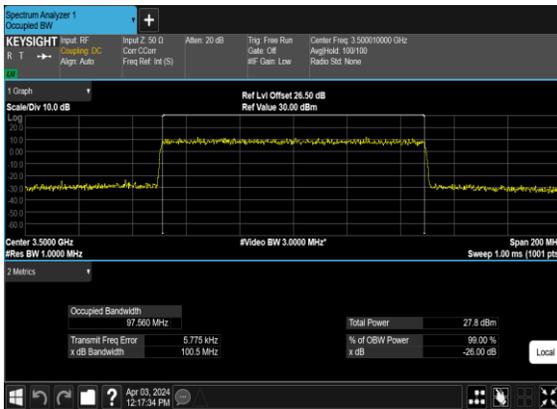
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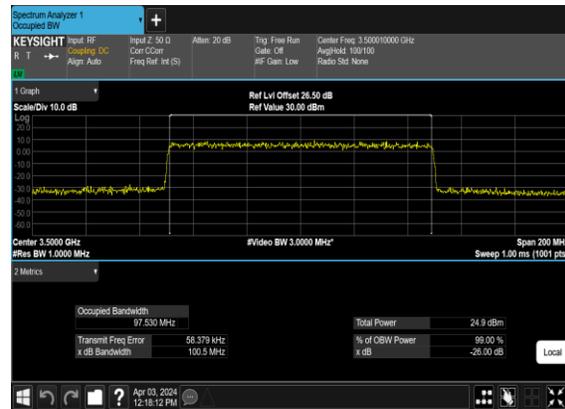
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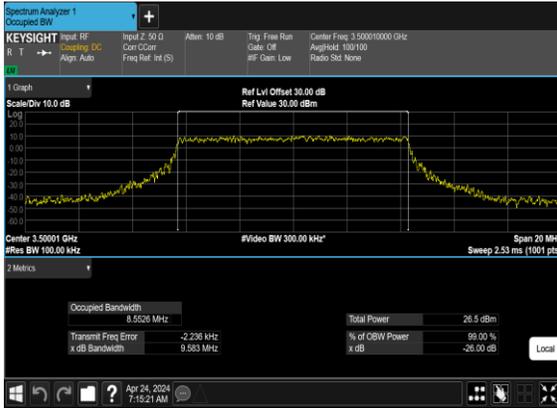
### N77(100M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



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



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



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



### N77(10M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



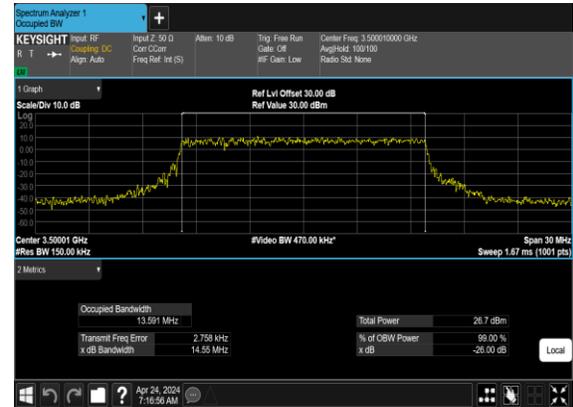
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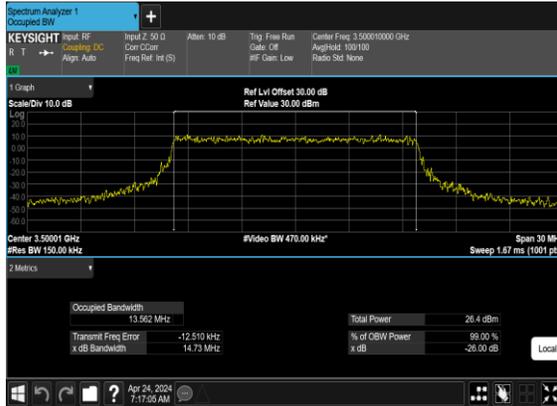
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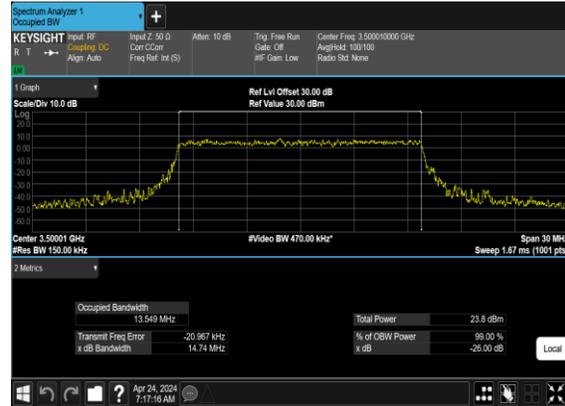
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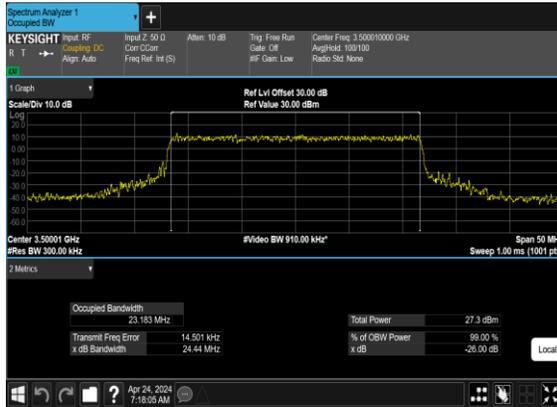
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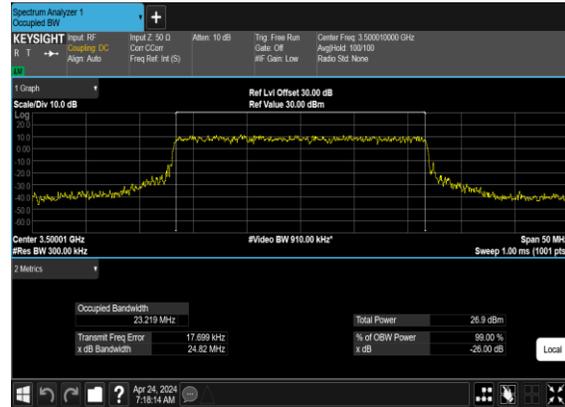
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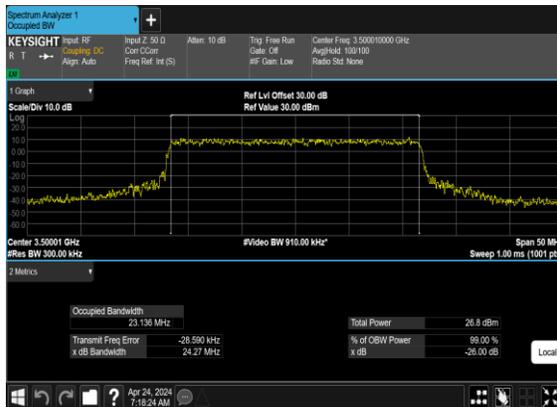
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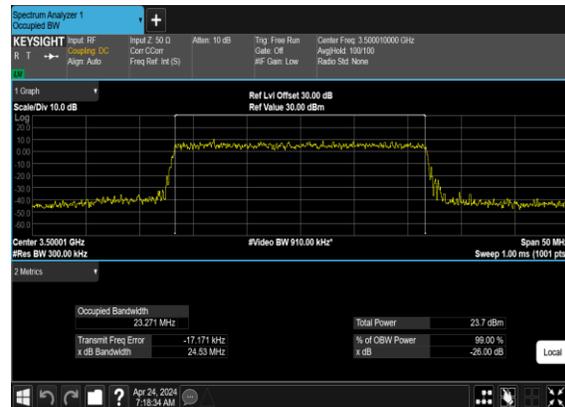
### N77(25M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



### N77(25M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



### N77(25M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH

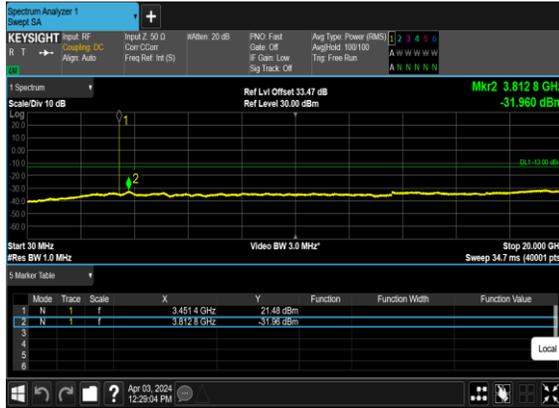


## Conducted Spurious Emissions

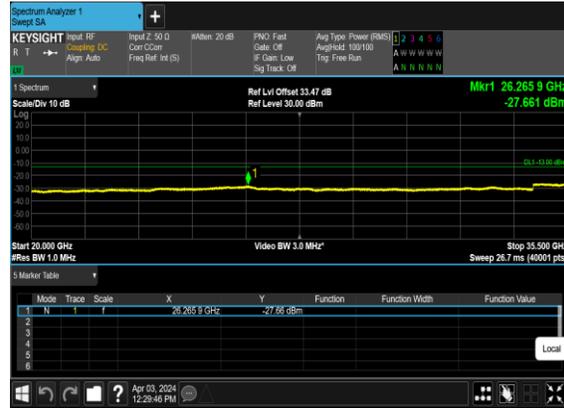
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>

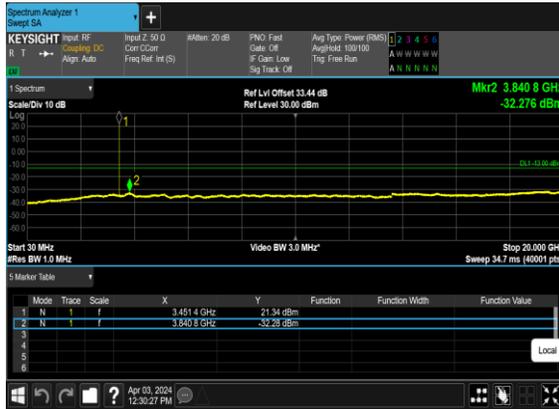
N77(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



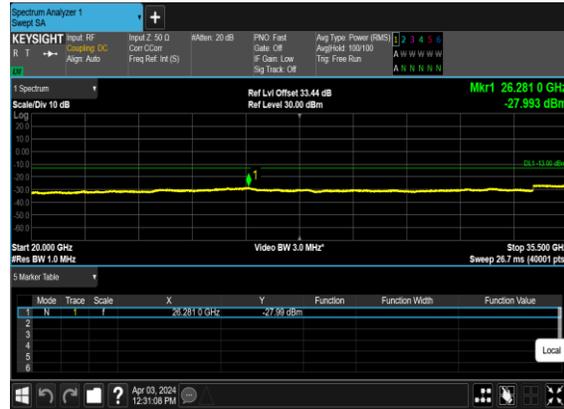
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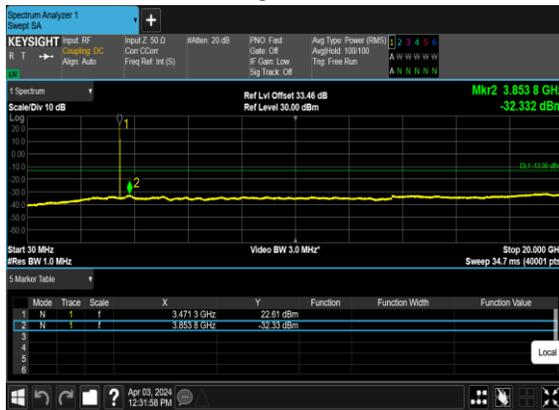
N77(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



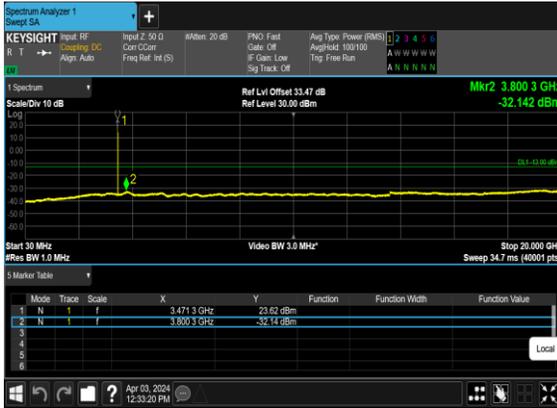
N77(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



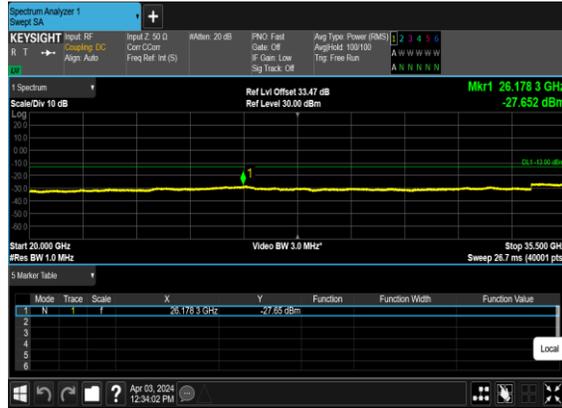
N77(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



### N77(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



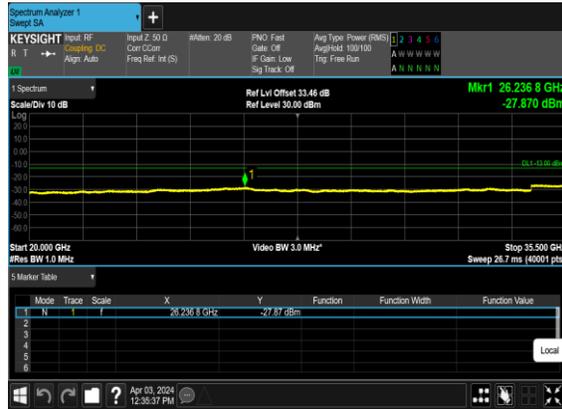
### N77(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



### N77(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



### N77(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



### N77(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



### N77(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



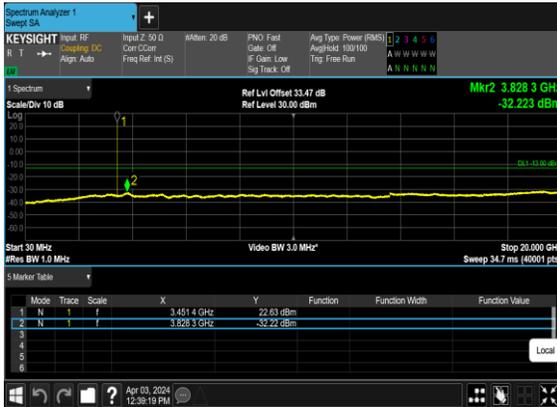
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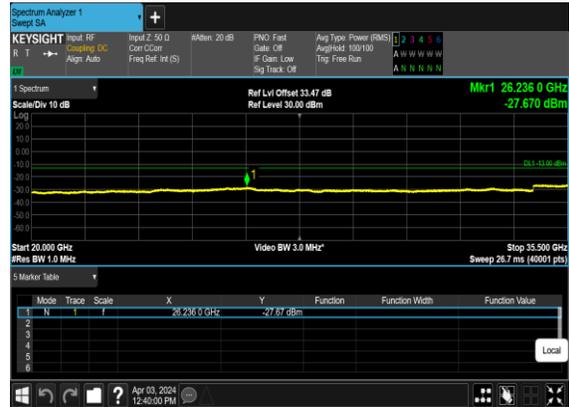
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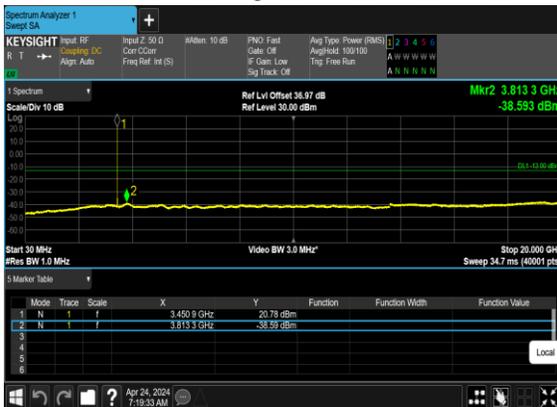
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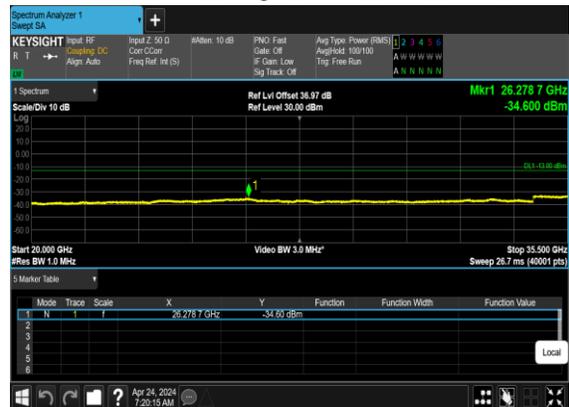
### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



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



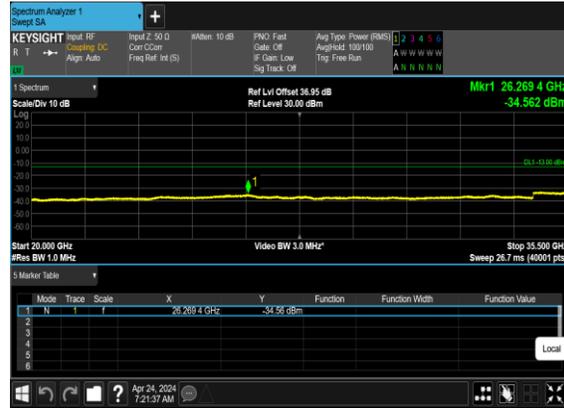
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



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



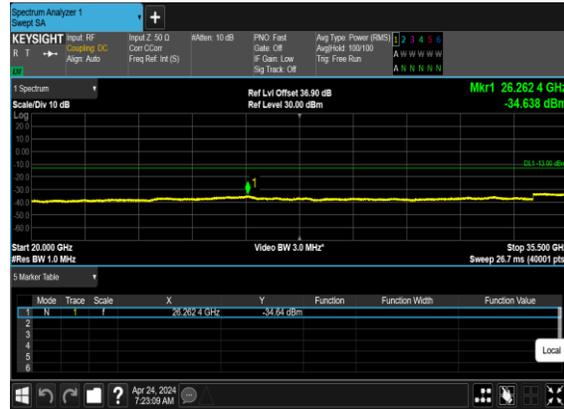
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



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



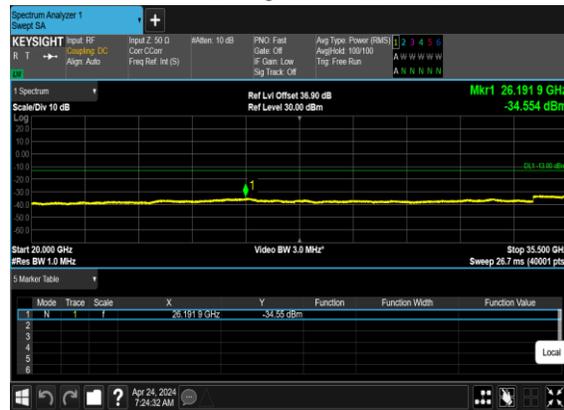
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



### 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



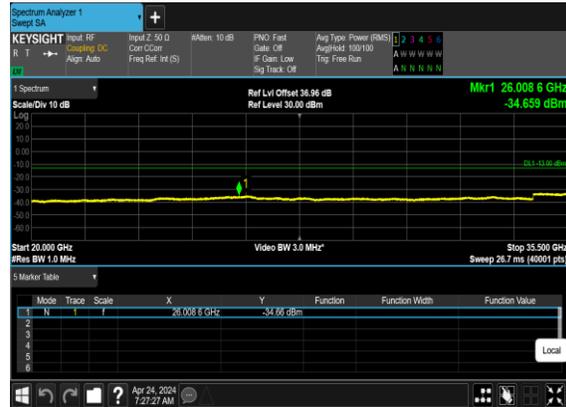
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



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



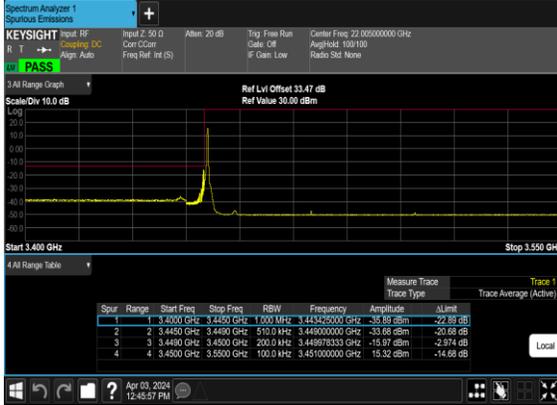
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@161	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@161	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	24@0	see graph	PASS

N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



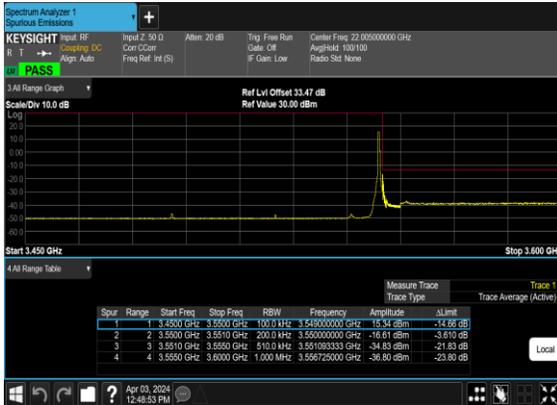
N77(60M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



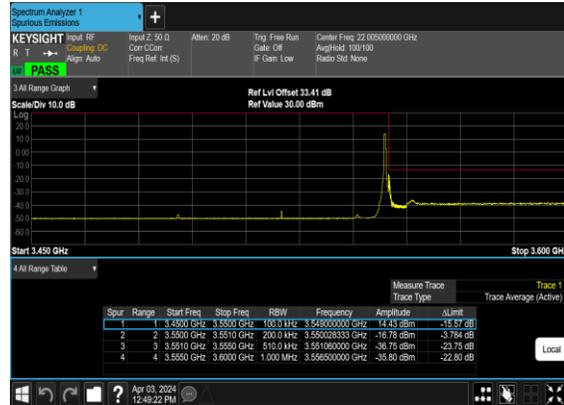
N77(60M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



### N77(60M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



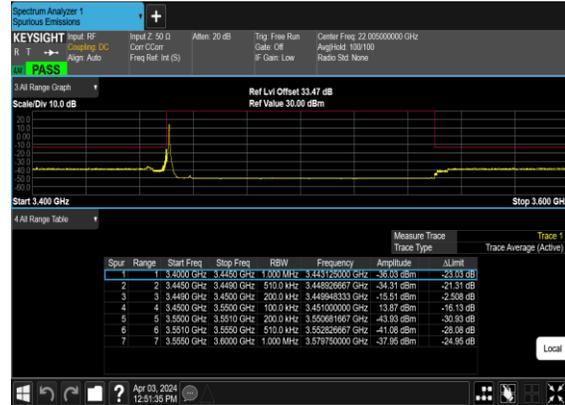
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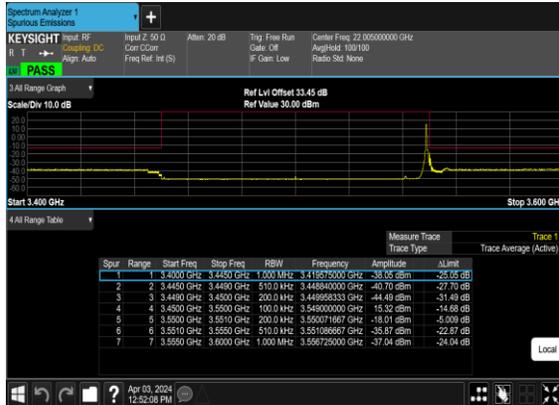
### N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



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



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



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

