



# FCC RF Test Report

**APPLICANT** : Xiaomi Communications Co., Ltd.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : Redmi  
**MODEL NAME** : 24090RA29G  
**FCC ID** : 2AFZZRA29G  
**STANDARD** : 47 CFR Part 27  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)  
**TEST DATE(S)** : Jul. 23, 2024 ~ Aug. 23, 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



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People's Republic of China**



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG471506J	Rev. 01	Initial issue of report	Aug. 23, 2024



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n7, n41, n38)	EIRP < 2Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41, n38)	§27.53(m)(4)	PASS	-
3.8	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41, n38)	< 55+10log <sub>10</sub> (P[Watts])	PASS	-
3.9	§27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41, n38)	< 55+10log <sub>10</sub> (P[Watts])	PASS	Under limit 25.30 dB at 12554.00 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	Redmi
Model Name	24090RA29G
FCC ID	2AFZZRA29G
IMEI Code	Conducted: 861793070041148/861793070041155 Radiation: 861793070039324/861793070039332
HW Version	135300O16
SW Version	Xiaomi HyperOS 1.0
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Rx Frequency	5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Bandwidth	n7: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz n38: 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz n41 : 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
SCS	15kHz for FDD Band , 30kHz for TDD Bands
Antenna Gain	<Ant. 1>: n7: -1.9 dBi n38: -2.46 dBi n41: -1.9 dBi <Ant. 3>: n7: -6.6 dBi n38: -5.7 dBi



	n41: -5.0 dBi <Ant. 4>: n7: -2.0 dBi n38: -2.4 dBi n41: -2.0 dBi <Ant. 7>: n38: -6.2 dBi n41: -6.2 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 are shown in the report, 5G NR n7/n38/n41 for Ant. 1.
2. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
3. 5G NR n7/n38/n41 support SA & NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode.
4. The device supports two PAs for 5G NR n7/n38/n41 (main PA for SA mode and other PA for NSA mode), the maximum power of main PA is higher than the other PA for n7/n38/n41, therefore, we chose higher power PA to calculate the EIRP and show in the report.
5. 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 and Emission Designator

5G NR n7		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)
5	2502.5 ~ 2567.5	0.1268	4M46G7D	0.1069	4M48W7D
10	2505.0 ~ 2565.0	0.1262	9M26G7D	0.1057	9M28W7D
15	2507.5 ~ 2562.5	0.1265	14M1G7D	0.1047	14M1W7D
20	2510.0 ~ 2560.0	0.1259	18M9G7D	0.1052	18M9W7D
25	2512.5 ~ 2557.5	0.1250	23M8G7D	0.1042	23M8W7D
30	2515.0 ~ 2555.0	0.1247	28M6G7D	0.1033	28M6W7D
40	2520.0 ~ 2550.0	0.1211	38M6G7D	0.0995	38M6W7D
50	2525.0 ~ 2545.0	0.1380	48M3G7D	0.1205	48M2W7D



5G NR n38		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	2575.0 ~ 2615.0	0.1143	8M73G7D	0.0904	8M79W7D
15	2577.5 ~ 2612.5	0.1146	13M6G7D	0.0906	13M7W7D
20	2580.0 ~ 2610.0	0.1127	18M3G7D	0.0902	18M3W7D
25	2582.5 ~ 2607.5	0.1153	23M2G7D	0.0923	23M4W7D
30	2585.0 ~ 2605.0	0.1153	27M9G7D	0.0912	27M9W7D
40	2590.0 ~ 2600.0	0.1180	38M1G7D	0.0953	38M0W7D

5G NR n41		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	2501.01 ~ 2685.00	0.1288	8M67G7D	0.1038	8M79W7D
15	2503.50 ~ 2682.48	0.1282	13M6G7D	0.1040	13M6W7D
20	2506.02 ~ 2679.99	0.1303	18M3G7D	0.1050	18M2W7D
30	2511.00 ~ 2674.98	0.1315	27M8G7D	0.1040	27M9W7D
40	2516.01 ~ 2670.00	0.1294	38M0G7D	0.1033	38M0W7D
50	2521.02 ~ 2664.99	0.1262	47M7G7D	0.1005	47M8W7D
60	2526.00 ~ 2659.98	0.1271	58M1G7D	0.1014	57M9W7D
80	2536.02 ~ 2649.99	0.1279	77M6G7D	0.1023	77M6W7D
90	2541.00 ~ 2644.98	0.1282	87M8G7D	0.1021	87M6W7D
100	2546.01 ~ 2640.00	0.1358	97M6G7D	0.1076	98M1W7D

Note:

1. 5G NR n41 overlaps the entire frequency range of 5G NR n38. Therefore, the test results provided in this report covers 5G NR n41 as well as 5G NR n38, except 25MHz BW of n38 is full tested.
2. All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.



### 1.7 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

### 1.8 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 Applicable Standards

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

- ♦ 47 CFR Part 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:**

All test items were verified and recorded according to the standards and without any deviation during the test.



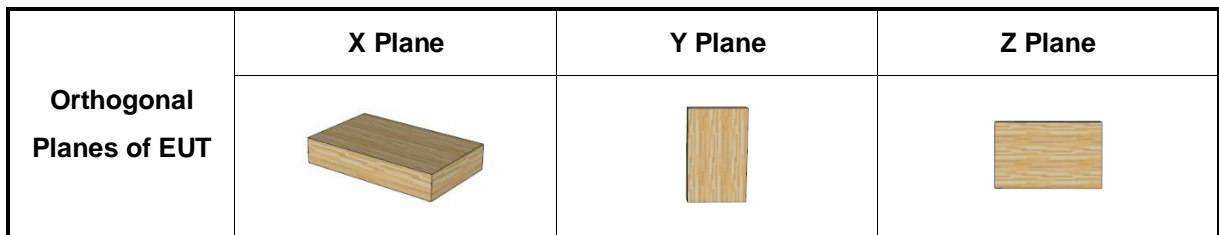
## 2 Test Configuration of Equipment Under Test

### 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 in three orthogonal panels, X, Y, Z. The worst cases (Y plane) 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.

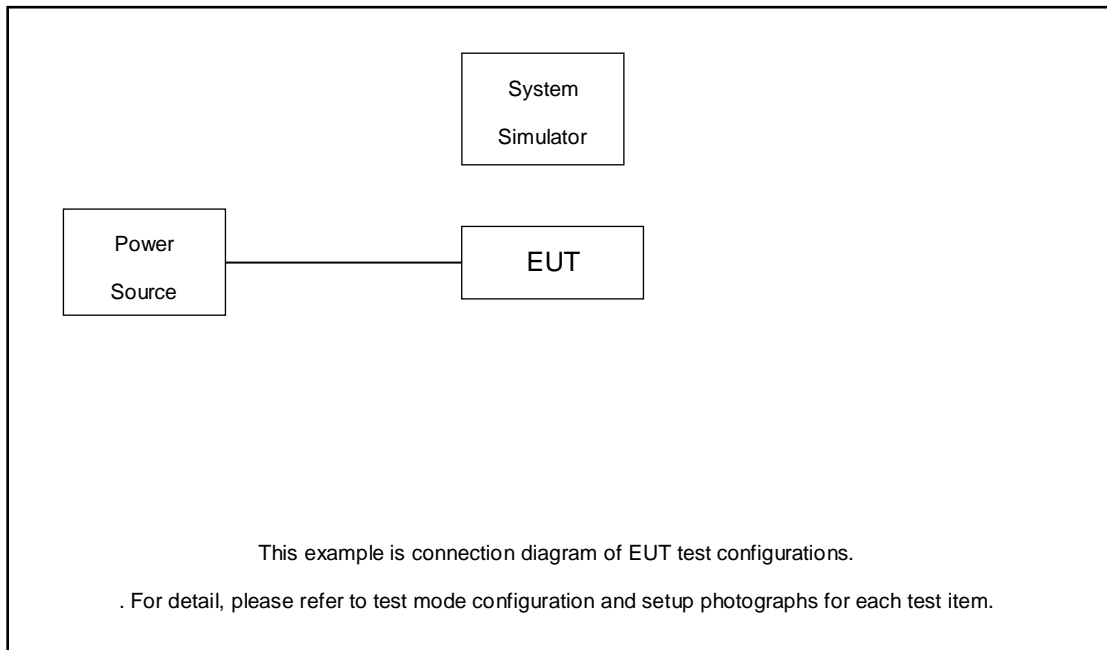


Test Items	5G NR	Bandwidth (MHz)													Modulation				RB #		Test Channel						
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H			
Max. Output Power	n7	v	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	
	n38	-	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n7				v				v	-	-	-	-	-	v	v				v	v			v			
	n38	-				v			-	-	-	-	-	-	v	v				v	v			v			
	n41	-			v	-									v	v				v	v			v			
26dB and 99% Bandwidth	n7	v	v	v	v	v	v	v	v	-	-	-	-	-		v	v	v	v		v			v			
	n38	-				v			-	-	-	-	-	-		v	v	v	v		v			v			
	n41	-	v	v	v	-	v	v	v	v	-	v	v	v		v	v	v	v		v			v			
Conducted Band Edge	n7	v				v			v	-	-	-	-	-	v	v				v	v	v			v		
	n38	-				v			-	-	-	-	-	-	v	v				v	v	v			v		
	n41	-	v			-			v		-				v	v	v			v	v	v			v		
Conducted Spurious Emission	n7	v				v			v	-	-	-	-	-	v	v				v			v	v	v		
	n38	-				v			-	-	-	-	-	-	v	v				v			v	v	v		
	n41	-	v			-			v		-				v	v	v			v			v	v	v		
Frequency Stability	n7				v					-	-	-	-	-		v					v			v			
	n38	-				v			-	-	-	-	-	-		v					v			v			
	n41	-			v	-					-					v					v			v			
E.R.P / E.I.R.P	n7	v	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	n38	-	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v



Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel				
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H		
Radiated Spurious Emission	n7	Worst Case																							v	
	n38	Worst Case																							v	
	n41	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 = 3.91V ; Low Voltage =3.60V. ; High Voltage =4.3V																									

## 2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

## 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	MT8821C	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.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 6.0 dB and 20dB attenuator.

Example :

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

$$= 6.0 + 20 = 26.0 \text{ (dB)}$$

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

5G NR n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	505000	507000	509000
	Frequency	2525	2535	2545
40	Channel	504000	507000	510000
	Frequency	2520	2535	2550
30	Channel	503000	507000	511000
	Frequency	2515	2535	2555
25	Channel	502500	507000	511500
	Frequency	2512.5	2535	2557.5
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5



5G NR n38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	518000	519000	520000
	Frequency	2590	2595	2600
30	Channel	517000	519000	521000
	Frequency	2585	2595	2605
25	Channel	516500	519000	521500
	Frequency	2582.5	2595	2607.5
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610
15	Channel	515500	519000	522500
	Frequency	2577.5	2595	2612.5
10	Channel	515000	519000	523000
	Frequency	2575	2595	2615

5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

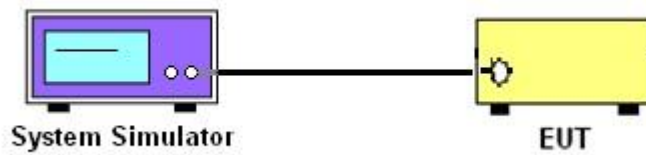
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

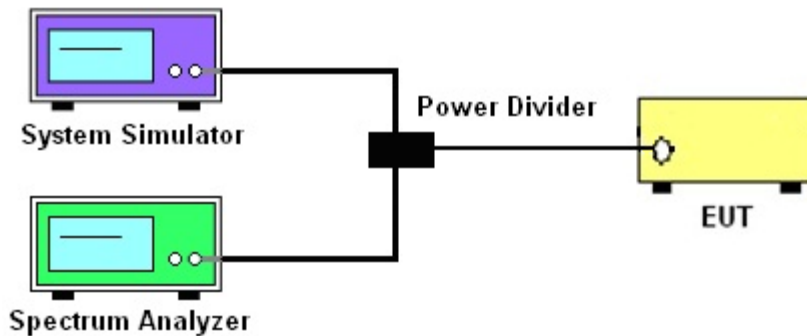
See list of measuring instruments of this test report.

#### 3.2 Test Setup

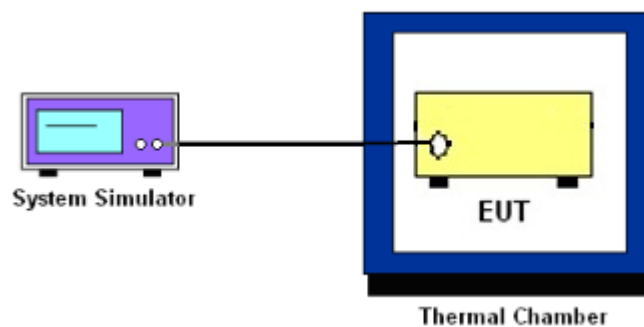
##### 3.2.1 Conducted Output Power



##### 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 2 Watts for 5G NR n7, n38, n41.

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(m)(4)

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### 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.
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

For 5G NR n7/n38/n41:

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  $55 + 10 \log (P)$  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. For 5G NR n7/n38/n41

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
= P(W)- [55+ 10log(P)] (dB)  
= [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)  
= -25dBm.



## 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.

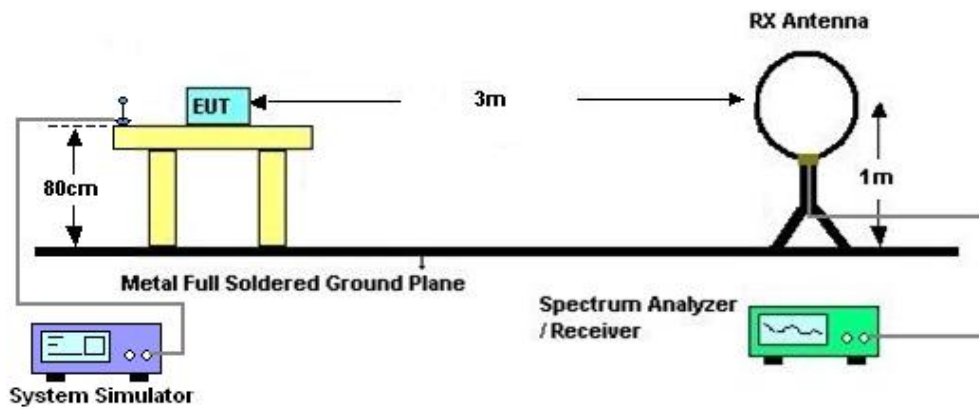
## 4 Radiated Test Items

### 4.1 Measuring Instruments

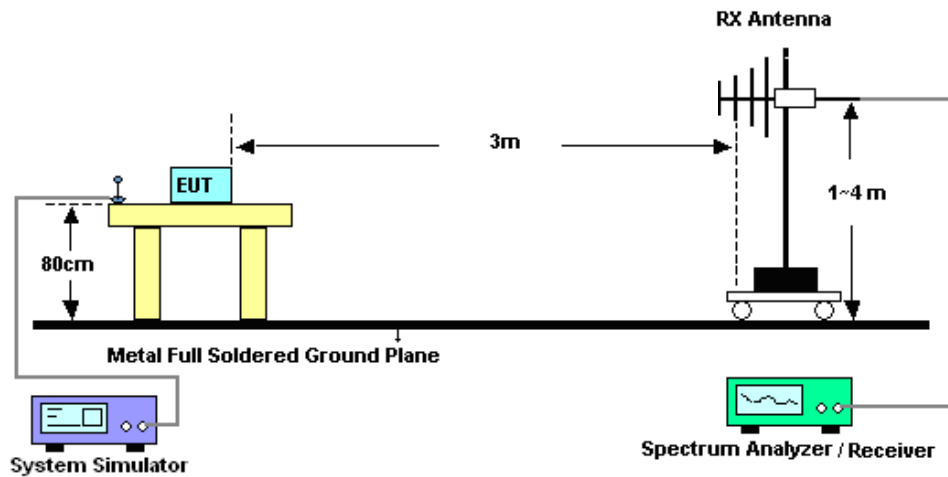
See list of measuring instruments of this test report.

### 4.2 Test Setup

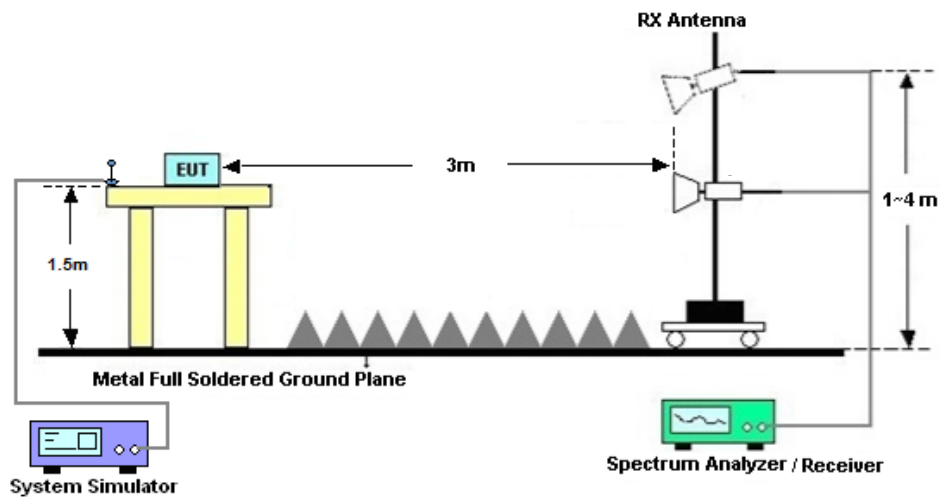
#### 4.2.1 For radiated test below 30MHz



#### 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

For 5G NR n7/n38/n41

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  $55 + 10 \log (P)$  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.  $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11.  $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. For 5G NR n7/n38/n41:  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)



## 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	Jul. 25, 2024~ Aug. 08, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jul. 25, 2024~ Aug. 08, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Jul. 25, 2024~ Aug. 08, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 11, 2023	Jul. 23, 2024~ Aug. 23, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Jul. 23, 2024~ Aug. 23, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	Apr. 18, 2024	Jul. 23, 2024~ Aug. 23, 2024	Apr. 17, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Jul. 23, 2024~ Aug. 23, 2024	Oct. 22, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Jul. 23, 2024~ Aug. 23, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Jul. 23, 2024~ Aug. 23, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 11, 2023	Jul. 23, 2024~ Aug. 23, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Jul. 23, 2024~ Aug. 23, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 23, 2024~ Aug. 23, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 23, 2024~ Aug. 23, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 23, 2024~ Aug. 23, 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))	2.83 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))	2.83 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))	2.82 dB
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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%



Software Version: 23.06.1602

# FR1 N7-SCS 15k (Main PA\_ANT 1)

## Transmitter Conducted Output Power And EIRP, (G<sub>T</sub> - L<sub>C</sub>)=-1.9dBi

NR Band	SCS	Bandwidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	135@67	22.67	20.77	0.1194
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	1@1	22.61	20.71	0.1178
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	1@268	22.85	20.95	0.1245
7	15	50	505000	2525	DFT-s-OFDM QPSK	135@67	22.79	20.89	0.1227
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@1	22.49	20.59	0.1146
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@268	22.78	20.88	0.1225
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	135@67	21.79	19.89	0.0975
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@1	21.79	19.89	0.0975
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@268	22.13	20.23	0.1054
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	135@67	20.31	18.41	0.0693
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@1	20.37	18.47	0.0703
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@268	20.58	18.68	0.0738
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	135@67	18.31	16.41	0.0438
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@1	18.07	16.17	0.0414
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@268	18.23	16.33	0.0430
7	15	50	505000	2525	CP-OFDM QPSK	135@67	21.25	19.35	0.0861
7	15	50	505000	2525	CP-OFDM QPSK	1@1	21.09	19.19	0.0830
7	15	50	505000	2525	CP-OFDM QPSK	1@268	21.33	19.43	0.0877
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	135@67	22.8	20.9	0.1230
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.58	20.68	0.1169
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	1@268	23.01	21.11	0.1291
7	15	50	507000	2535	DFT-s-OFDM QPSK	135@67	22.89	20.99	0.1256
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@1	22.53	20.63	0.1156
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@268	22.96	21.06	0.1276
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	135@67	21.9	20	0.1000
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@1	21.84	19.94	0.0986
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@268	22.33	20.43	0.1104



					QAM					
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	135@67	20.39	18.49	0.0706	
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@1	20.38	18.48	0.0705	
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@268	20.72	18.82	0.0762	
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	135@67	18.41	16.51	0.0448	
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@1	18.12	16.22	0.0419	
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@268	18.34	16.44	0.0441	
7	15	50	507000	2535	CP-OFDM QPSK	135@67	21.36	19.46	0.0883	
7	15	50	507000	2535	CP-OFDM QPSK	1@1	21.06	19.16	0.0824	
7	15	50	507000	2535	CP-OFDM QPSK	1@268	21.44	19.54	0.0899	
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	135@67	22.83	20.93	0.1239	
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	1@1	22.52	20.62	0.1153	
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	1@268	23.3	21.4	0.1380	
7	15	50	509000	2545	DFT-s-OFDM QPSK	135@67	22.93	21.03	0.1268	
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@1	22.51	20.61	0.1151	
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@268	23.2	21.3	0.1349	
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	135@67	21.93	20.03	0.1007	
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@1	21.79	19.89	0.0975	
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@268	22.71	20.81	0.1205	
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	135@67	20.44	18.54	0.0714	
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@1	20.3	18.4	0.0692	
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@268	20.92	19.02	0.0798	
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	135@67	18.4	16.5	0.0447	
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@1	18.03	16.13	0.0410	
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@268	18.46	16.56	0.0453	
7	15	50	509000	2545	CP-OFDM QPSK	135@67	21.4	19.5	0.0891	
7	15	50	509000	2545	CP-OFDM QPSK	1@1	21.01	19.11	0.0815	
7	15	50	509000	2545	CP-OFDM QPSK	1@268	21.68	19.78	0.0951	
7	15	5	500500	2502.5	DFT-s-OFDM PI/2 BPSK	1@1	22.6	20.7	0.1175	
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@1	22.42	20.52	0.1127	
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	21.73	19.83	0.0962	
7	15	5	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.65	20.75	0.1189	
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@1	22.56	20.66	0.1164	



7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@1	21.83	19.93	0.0984
7	15	5	513500	2567.5	DFT-s-OFDM PI/2 BPSK	1@1	22.93	21.03	0.1268
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@1	22.85	20.95	0.1245
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	22.19	20.29	0.1069
7	15	10	501000	2505	DFT-s-OFDM PI/2 BPSK	1@1	22.62	20.72	0.1180
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@1	22.46	20.56	0.1138
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@1	21.77	19.87	0.0971
7	15	10	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.7	20.8	0.1202
7	15	10	507000	2535	DFT-s-OFDM QPSK	1@1	22.57	20.67	0.1167
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@1	21.86	19.96	0.0991
7	15	10	513000	2565	DFT-s-OFDM PI/2 BPSK	1@1	22.91	21.01	0.1262
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@1	22.81	20.91	0.1233
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@1	22.14	20.24	0.1057
7	15	15	501500	2507.5	DFT-s-OFDM PI/2 BPSK	1@1	22.62	20.72	0.1180
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@1	22.45	20.55	0.1135
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	21.76	19.86	0.0968
7	15	15	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.72	20.82	0.1208
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@1	22.58	20.68	0.1169
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@1	21.81	19.91	0.0979
7	15	15	512500	2562.5	DFT-s-OFDM PI/2 BPSK	1@1	22.92	21.02	0.1265
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@1	22.8	20.9	0.1230
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	22.1	20.2	0.1047
7	15	20	502000	2510	DFT-s-OFDM PI/2 BPSK	1@1	22.59	20.69	0.1172
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@1	22.48	20.58	0.1143
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@1	21.73	19.83	0.0962
7	15	20	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.66	20.76	0.1191
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@1	22.55	20.65	0.1161
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@1	21.82	19.92	0.0982
7	15	20	512000	2560	DFT-s-OFDM PI/2 BPSK	1@1	22.9	21	0.1259
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@1	22.84	20.94	0.1242
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@1	22.12	20.22	0.1052



7	15	25	502500	2512.5	DFT-s-OFDM PI/2 BPSK	1@1	22.6	20.7	0.1175
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@1	22.48	20.58	0.1143
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	1@1	21.79	19.89	0.0975
7	15	25	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.65	20.75	0.1189
7	15	25	507000	2535	DFT-s-OFDM QPSK	1@1	22.56	20.66	0.1164
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	1@1	21.8	19.9	0.0977
7	15	25	511500	2557.5	DFT-s-OFDM PI/2 BPSK	1@1	22.87	20.97	0.1250
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@1	22.77	20.87	0.1222
7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	1@1	22.08	20.18	0.1042
7	15	30	503000	2515	DFT-s-OFDM PI/2 BPSK	1@1	22.6	20.7	0.1175
7	15	30	503000	2515	DFT-s-OFDM QPSK	1@1	22.5	20.6	0.1148
7	15	30	503000	2515	DFT-s-OFDM 16 QAM	1@1	21.78	19.88	0.0973
7	15	30	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.68	20.78	0.1197
7	15	30	507000	2535	DFT-s-OFDM QPSK	1@1	22.62	20.72	0.1180
7	15	30	507000	2535	DFT-s-OFDM 16 QAM	1@1	21.83	19.93	0.0984
7	15	30	511000	2555	DFT-s-OFDM PI/2 BPSK	1@1	22.86	20.96	0.1247
7	15	30	511000	2555	DFT-s-OFDM QPSK	1@1	22.76	20.86	0.1219
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	1@1	22.04	20.14	0.1033
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	1@1	22.58	20.68	0.1169
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@1	22.44	20.54	0.1132
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@1	21.77	19.87	0.0971
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.73	20.83	0.1211
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@1	22.63	20.73	0.1183
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@1	21.88	19.98	0.0995
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	1@1	22.68	20.78	0.1197
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@1	22.58	20.68	0.1169
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@1	21.82	19.92	0.0982



### Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0041	PASS	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0009	PASS	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0066	PASS	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0034	PASS	-30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0082	PASS	-20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0067	PASS	-10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0092	PASS	0°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0054	PASS	10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0032	PASS	20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0033	PASS	30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0077	PASS	40°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0017	PASS	50°C



### Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	4.14	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	1@0	3.61	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	5.21	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	4.3	13	PASS

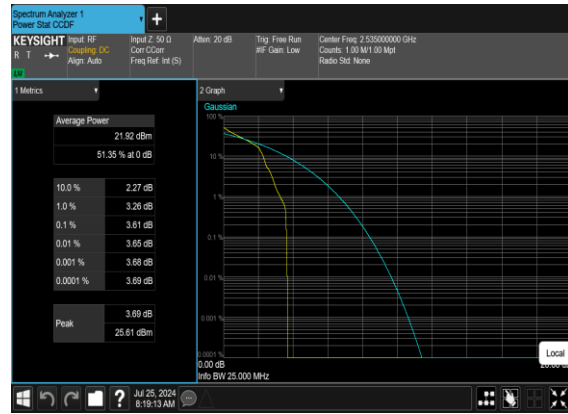




N7(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



N7(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Mid\_CH



N7(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N7(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH





### Occupied Bandwidth

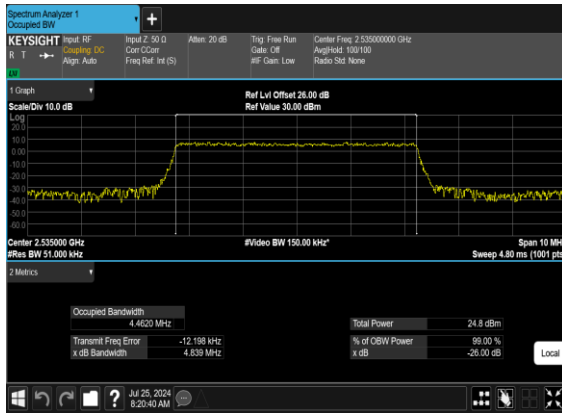
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.462	4.839
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4599	4.794
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4841	4.847
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.4676	4.813
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.264	9.744
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2747	9.716
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2661	9.672
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.2606	9.722
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.059	14.65
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.084	14.67
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.136	14.73
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.063	14.71
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.892	19.59
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.912	19.63
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.916	19.69
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.915	19.67
7	15	25	507000	2535.0	CP-OFDM QPSK	133@0	23.78	24.71
7	15	25	507000	2535.0	CP-OFDM 16 QAM	133@0	23.764	24.74
7	15	25	507000	2535.0	CP-OFDM 64 QAM	133@0	23.729	24.65
7	15	25	507000	2535.0	CP-OFDM 256 QAM	133@0	23.68	24.69
7	15	30	507000	2535.0	CP-OFDM QPSK	160@0	28.553	29.65
7	15	30	507000	2535.0	CP-OFDM 16 QAM	160@0	28.532	29.55
7	15	30	507000	2535.0	CP-OFDM 64 QAM	160@0	28.502	29.68



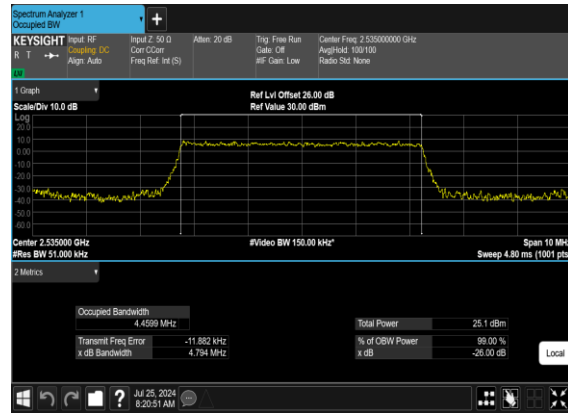
7	15	30	507000	2535.0	CP-OFDM 256 QAM	160@0	28.556	29.59
7	15	40	507000	2535.0	CP-OFDM QPSK	216@0	38.551	39.84
7	15	40	507000	2535.0	CP-OFDM 16 QAM	216@0	38.567	39.85
7	15	40	507000	2535.0	CP-OFDM 64 QAM	216@0	38.516	39.91
7	15	40	507000	2535.0	CP-OFDM 256 QAM	216@0	38.545	39.87
7	15	50	507000	2535.0	CP-OFDM QPSK	270@0	48.075	49.78
7	15	50	507000	2535.0	CP-OFDM 16 QAM	270@0	48.086	49.85
7	15	50	507000	2535.0	CP-OFDM 64 QAM	270@0	48.182	49.72
7	15	50	507000	2535.0	CP-OFDM 256 QAM	270@0	48.103	49.84



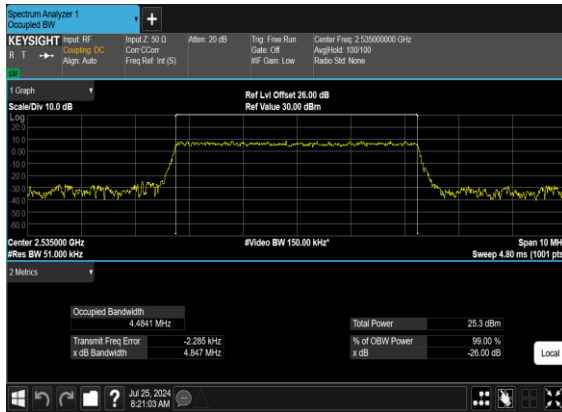
N7(5M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N7(5M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N7(5M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

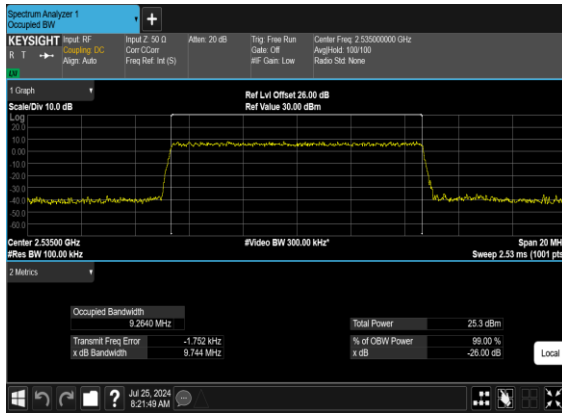


N7(5M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

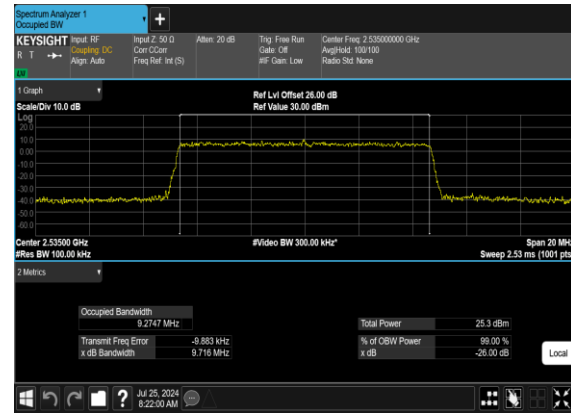




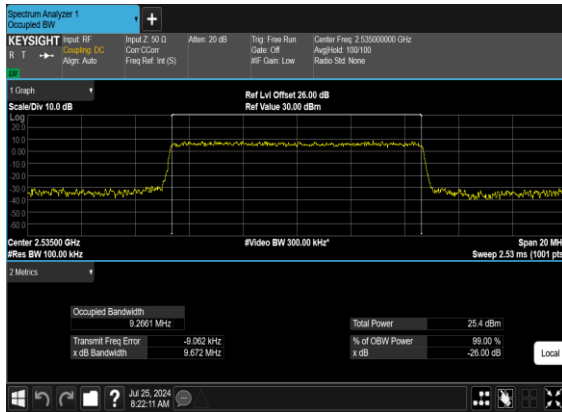
N7(10M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



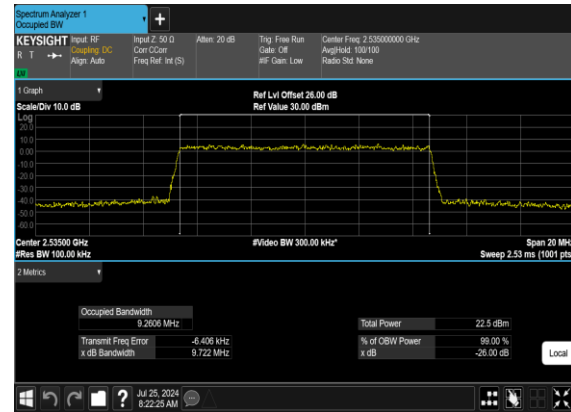
N7(10M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N7(10M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

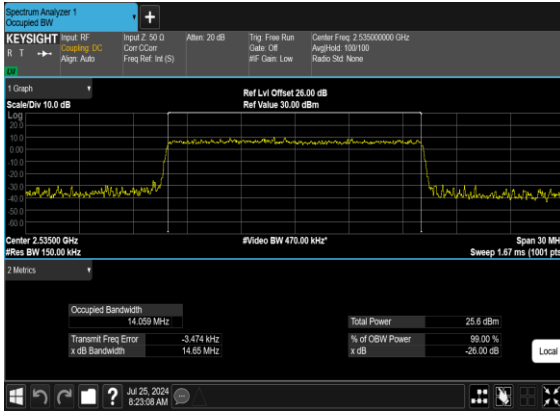


N7(10M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

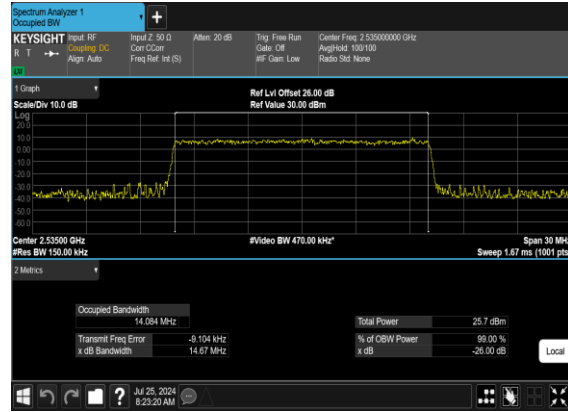




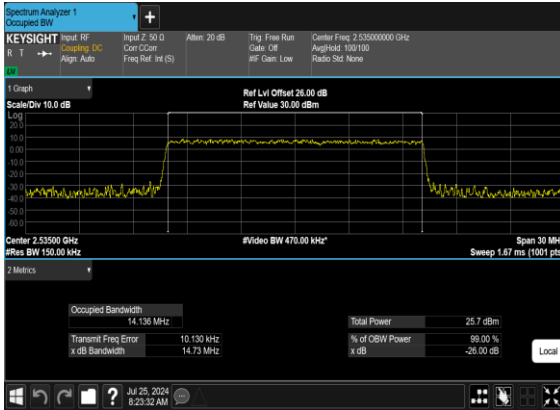
N7(15M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



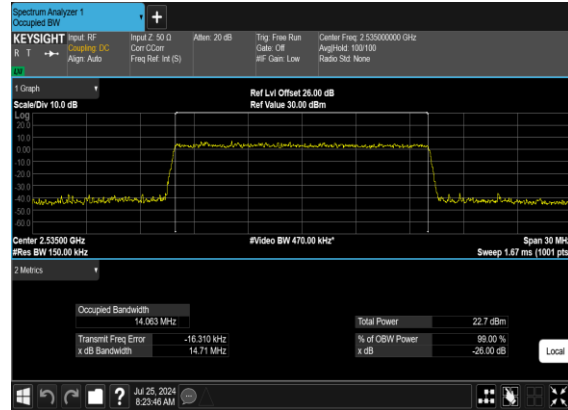
N7(15M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N7(15M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

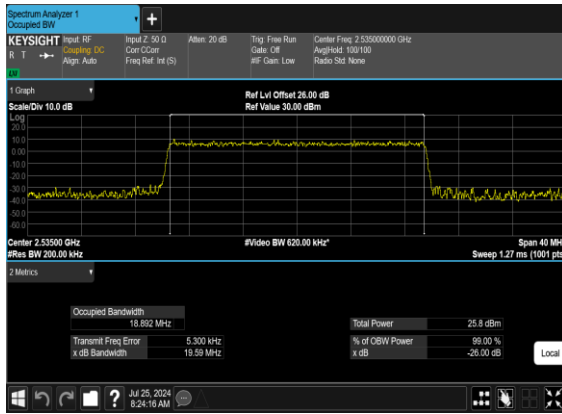


N7(15M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

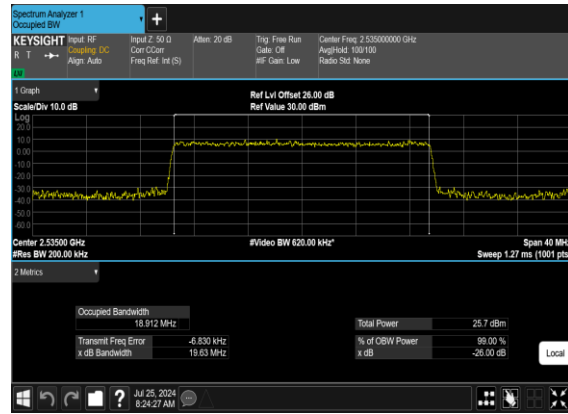




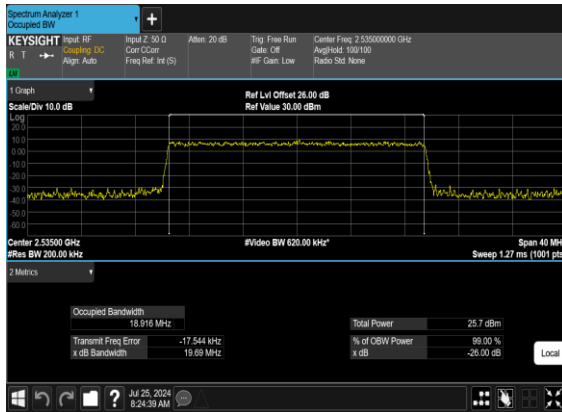
N7(20M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



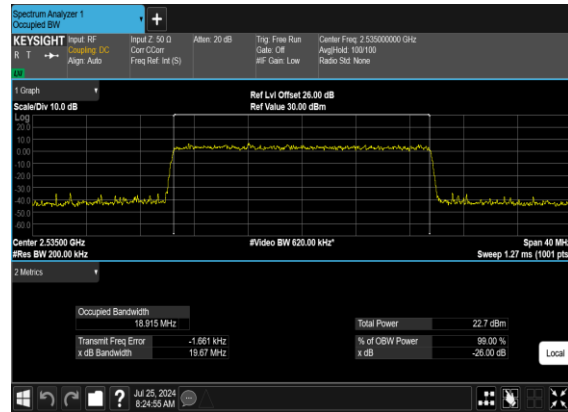
N7(20M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N7(20M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

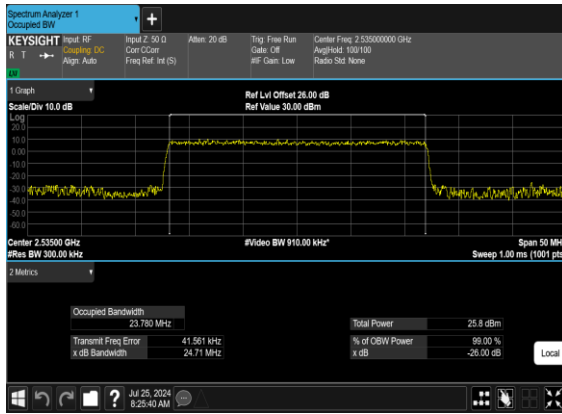


N7(20M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

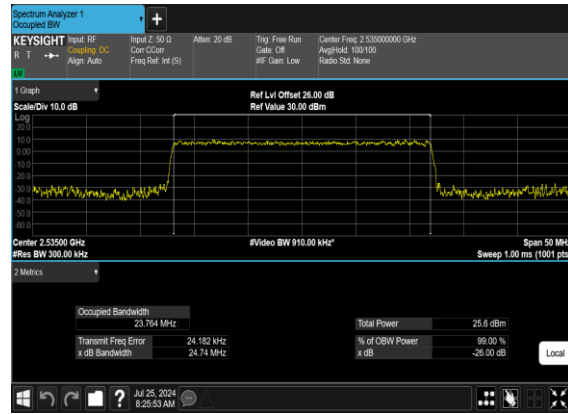




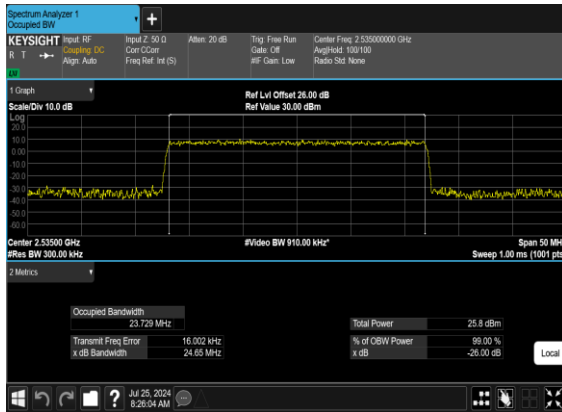
N7(25M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



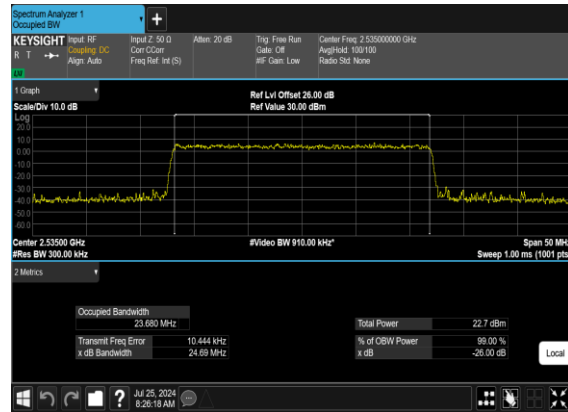
N7(25M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N7(25M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



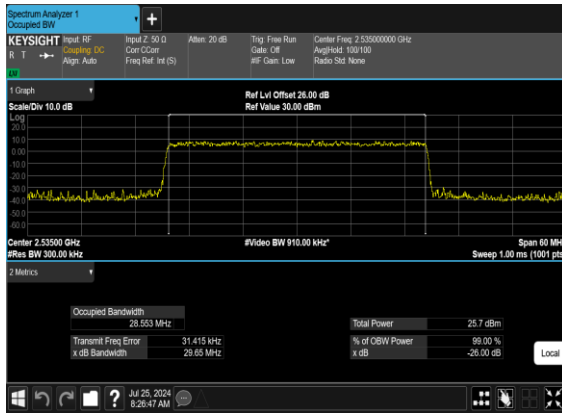
N7(25M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



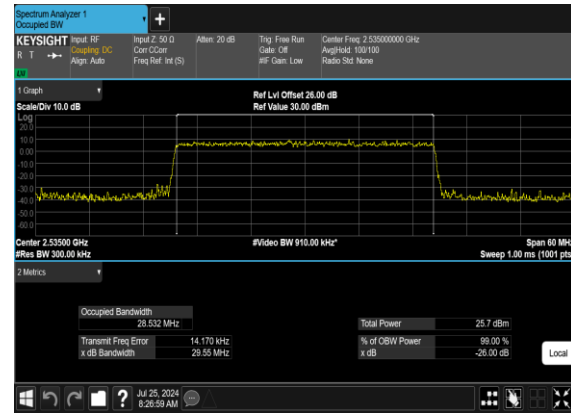




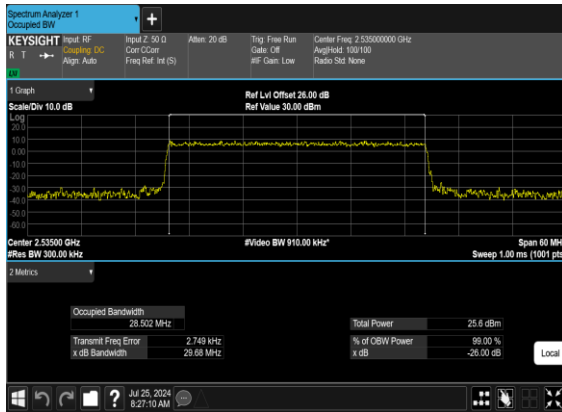
N7(30M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



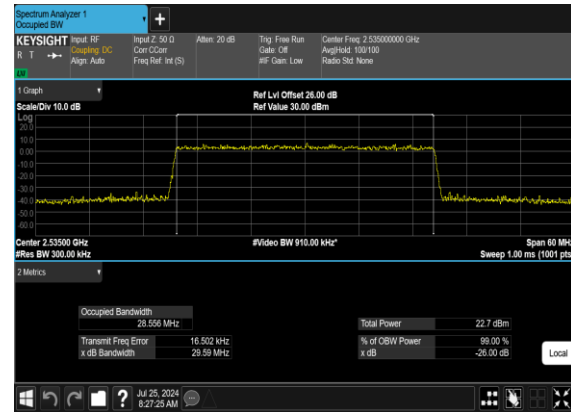
N7(30M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N7(30M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

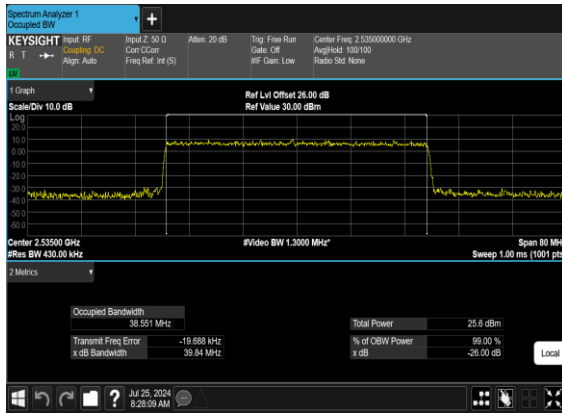


N7(30M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

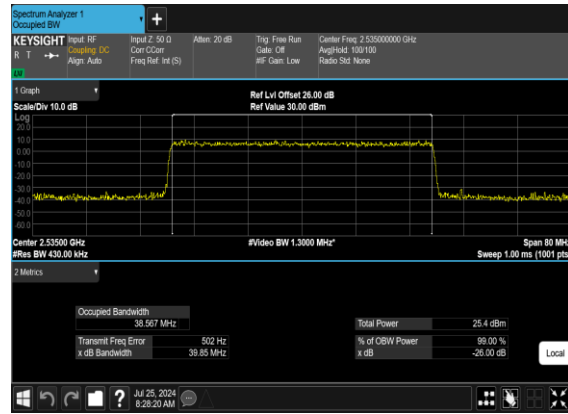




N7(40M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



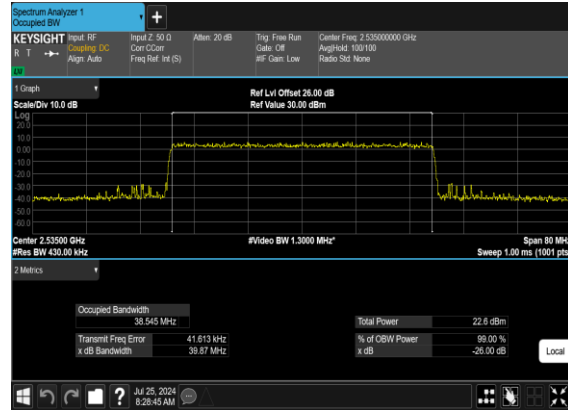
N7(40M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N7(40M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

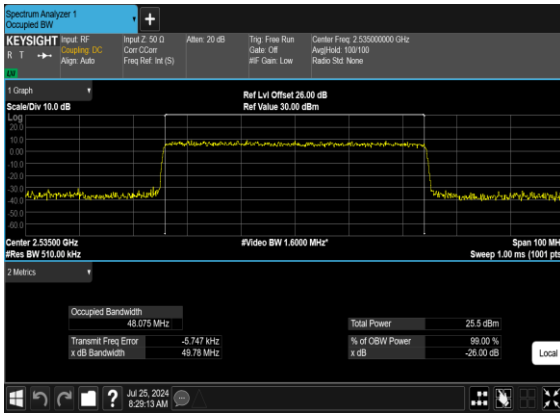


N7(40M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

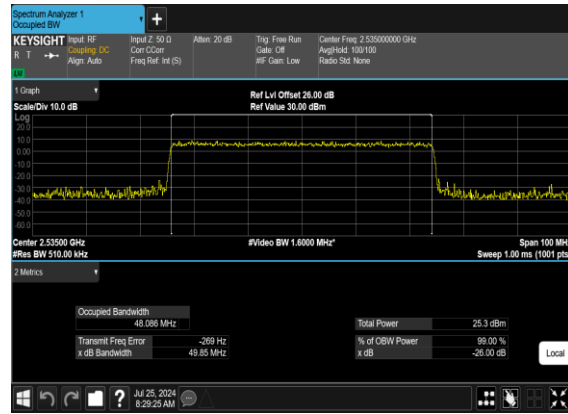




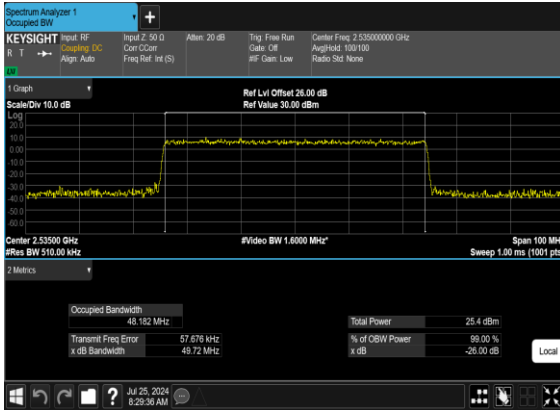
N7(50M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



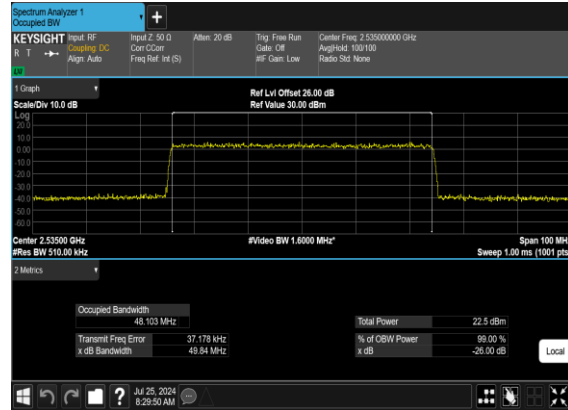
N7(50M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



N7(50M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



N7(50M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH





### Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	1@0	see graph	PASS



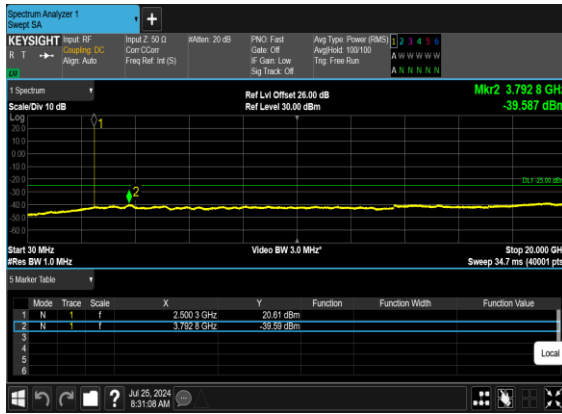
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	25	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	25	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---



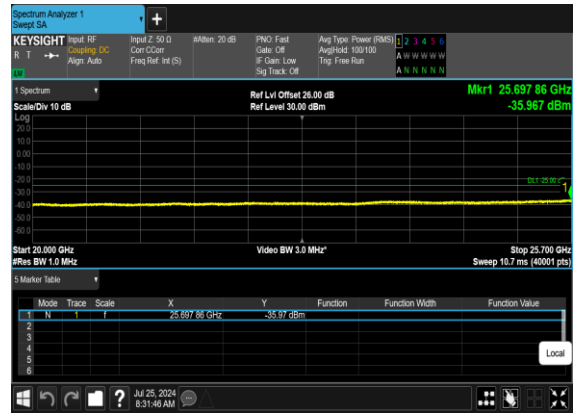
7	15	50	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



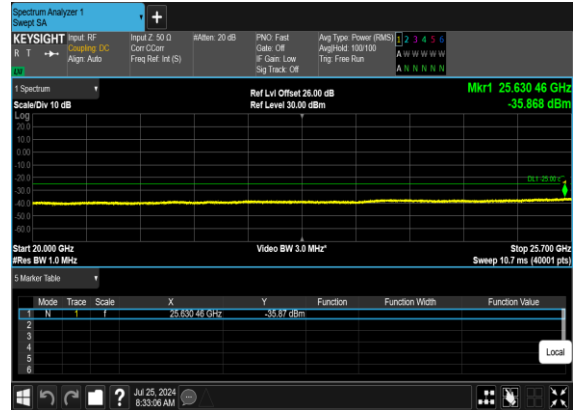
N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

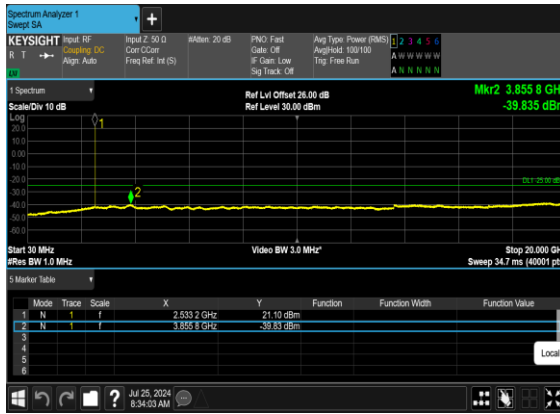


N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

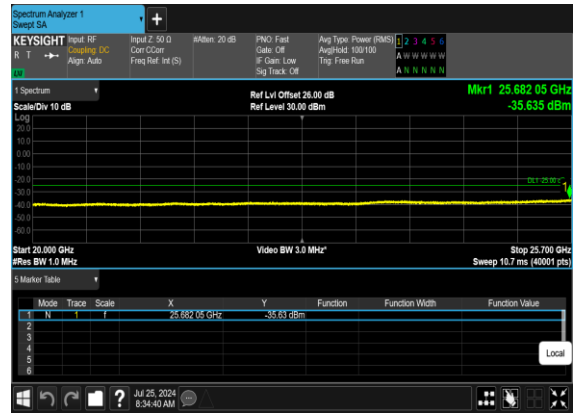




N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



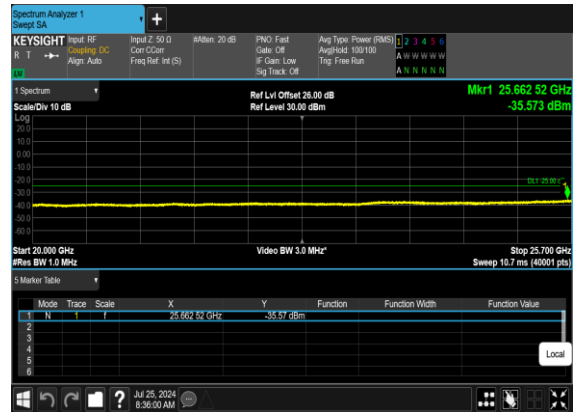
N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



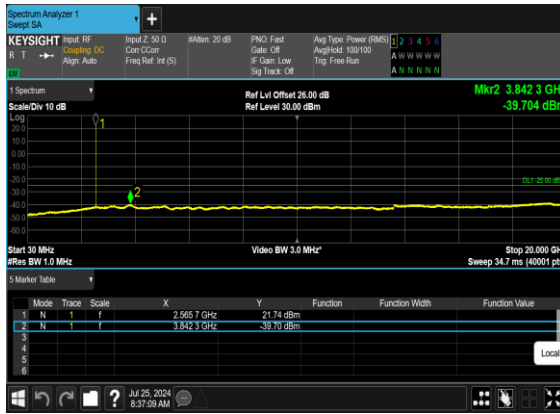
N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



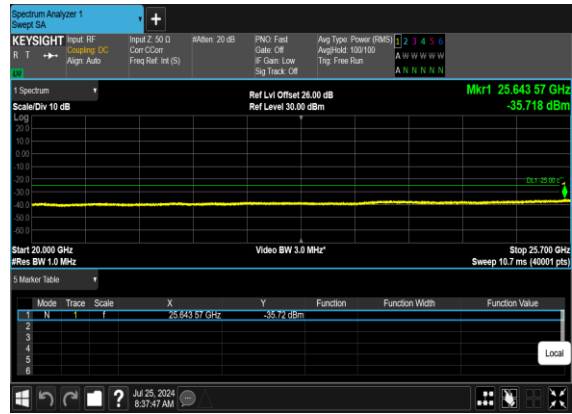




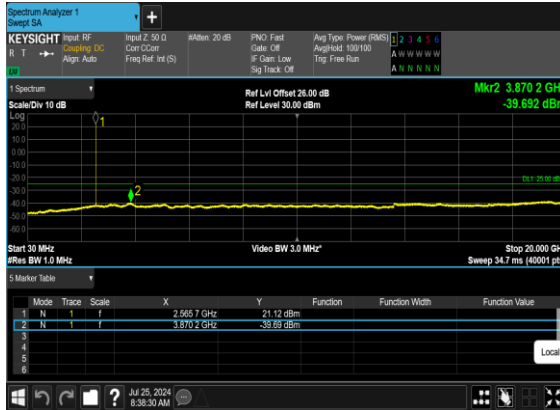
N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



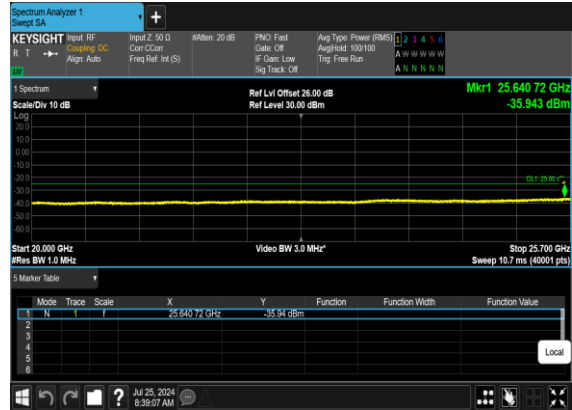
N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

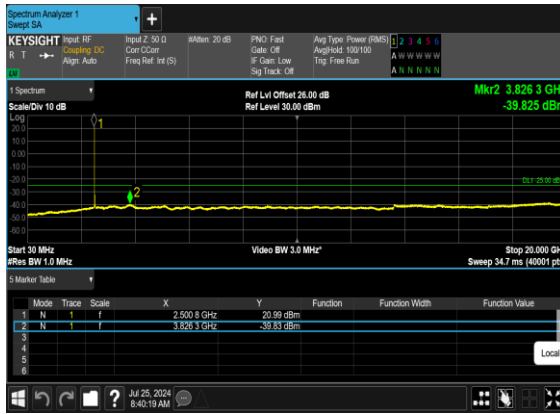


N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

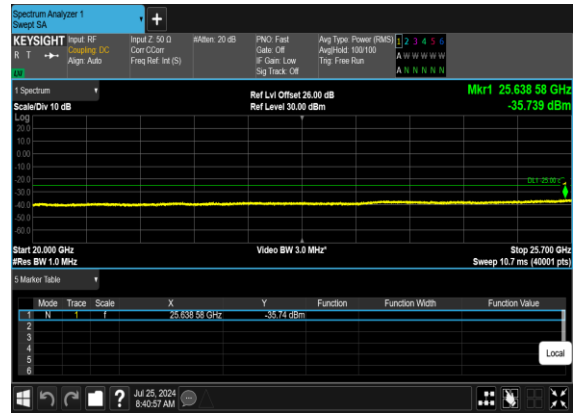




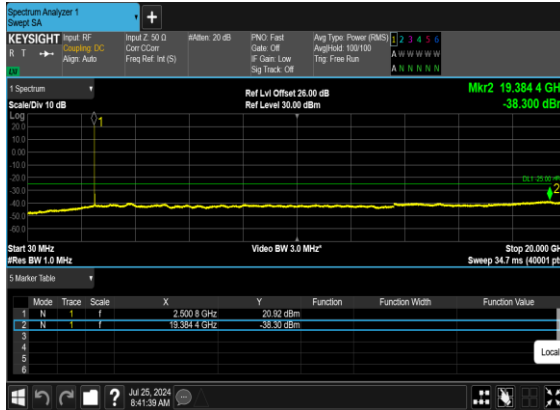
N7(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



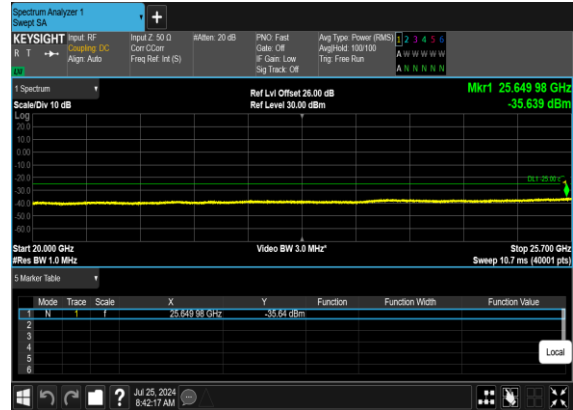
N7(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N7(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

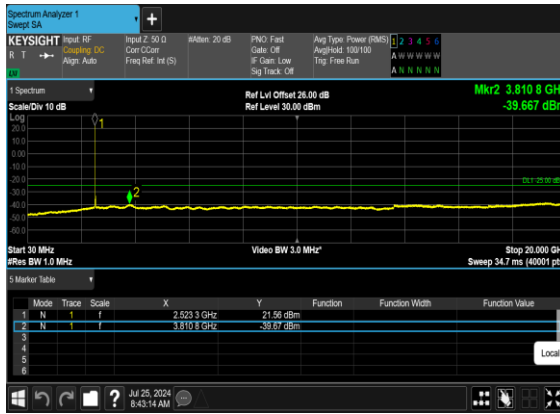


N7(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

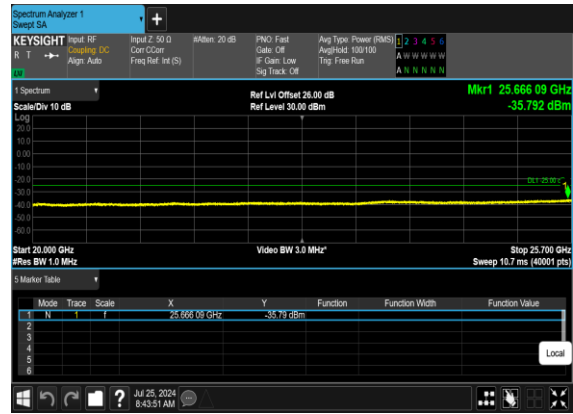




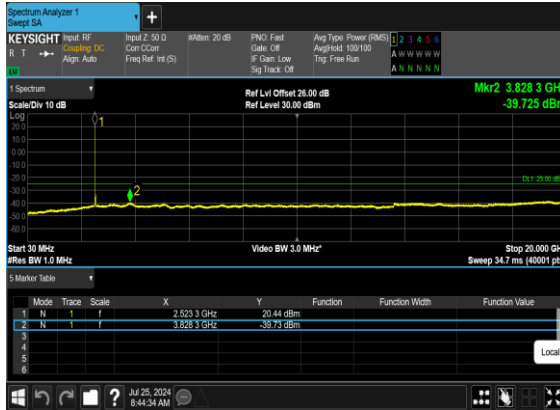
N7(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



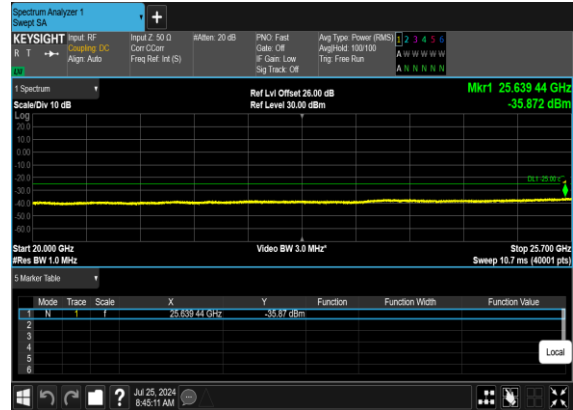
N7(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



N7(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N7(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

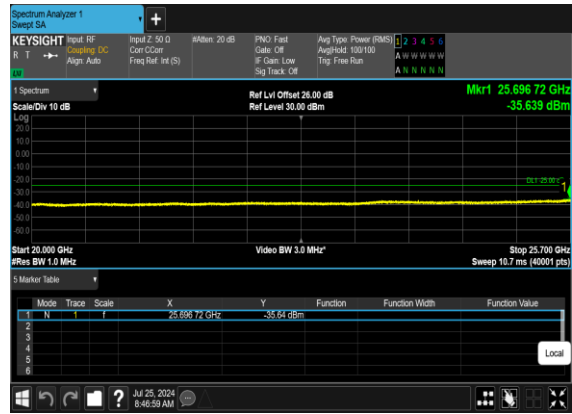




N7(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



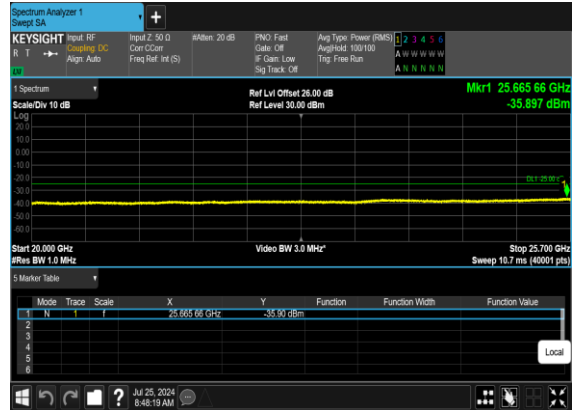
N7(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N7(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N7(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

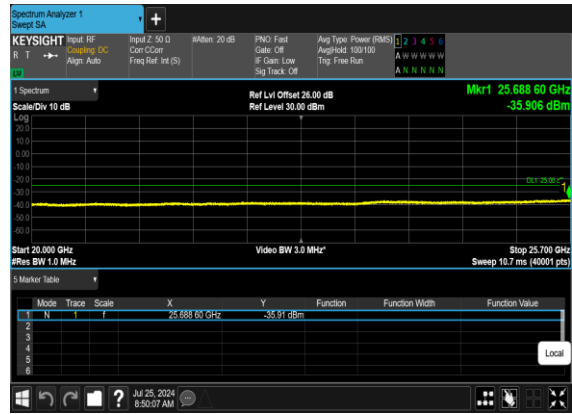




N7(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



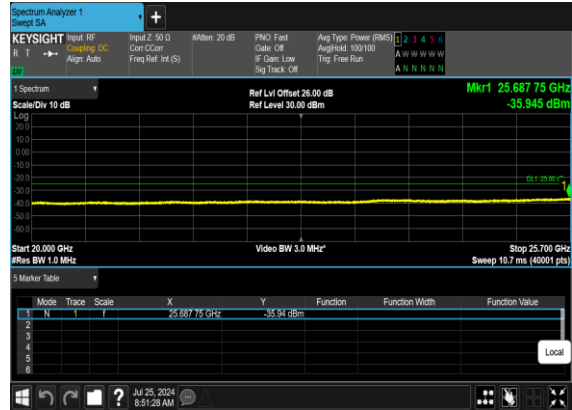
N7(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N7(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

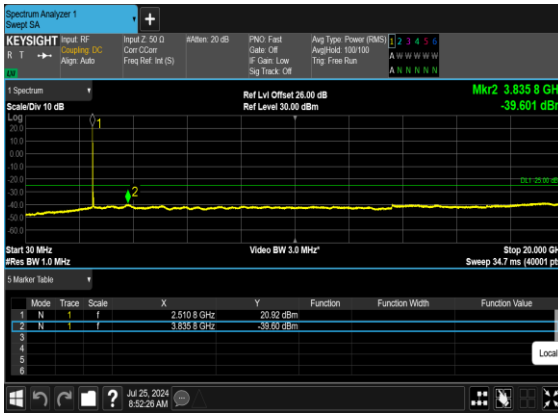


N7(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

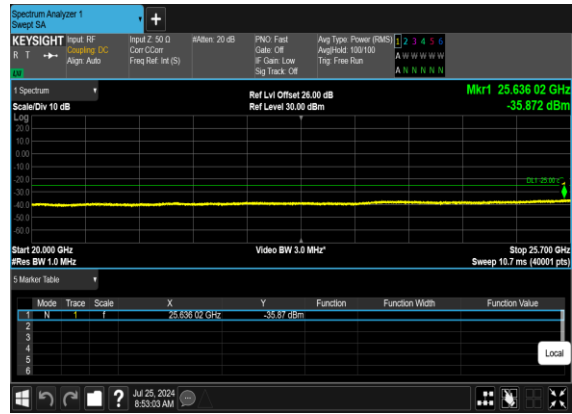




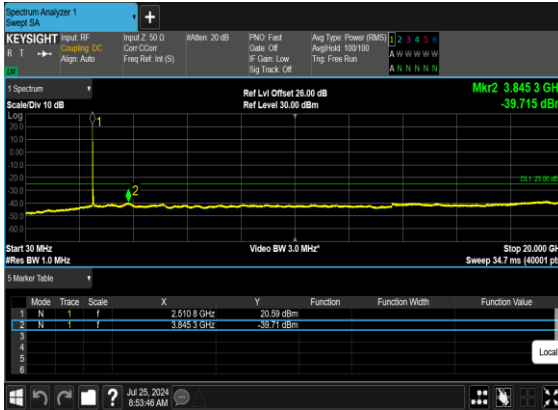
N7(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



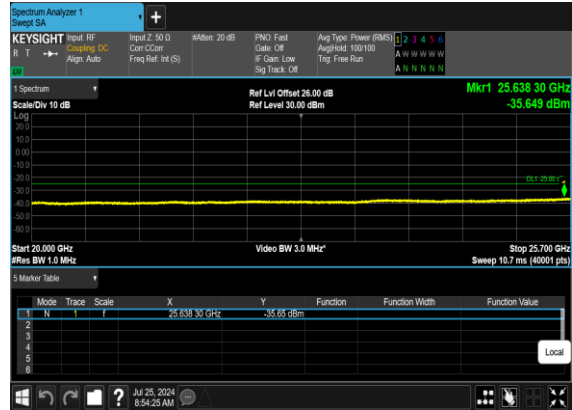
N7(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



N7(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

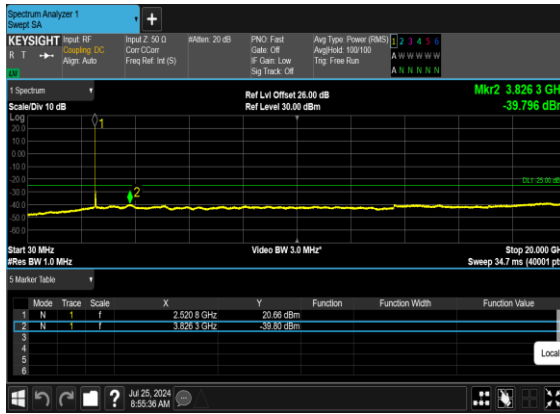


N7(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

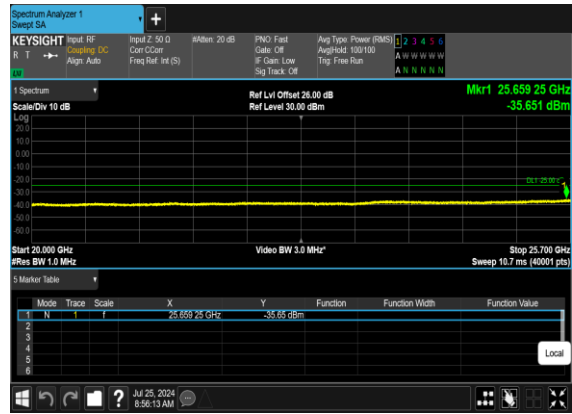




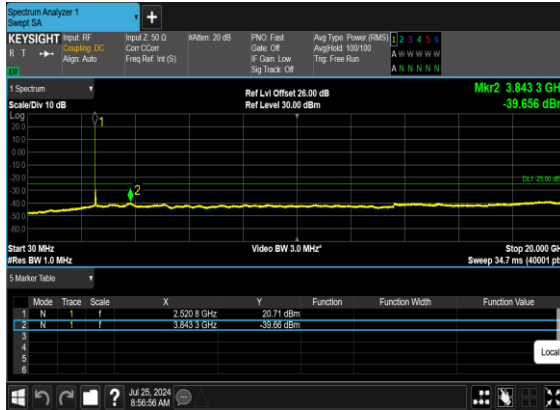
N7(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



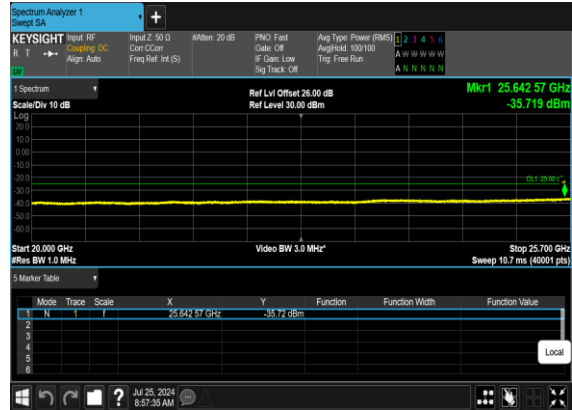
N7(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N7(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N7(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH





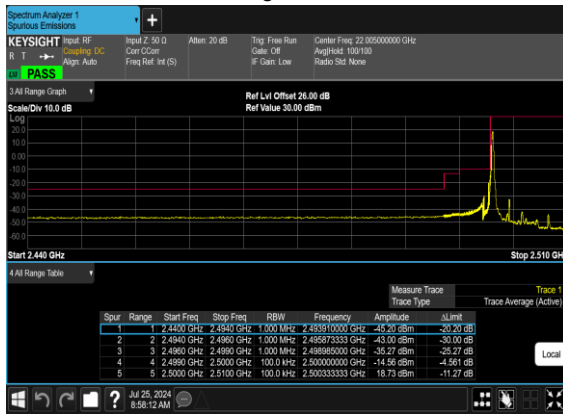
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	128@0	see graph	PASS
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	128@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	1@132	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@132	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM BPSK	128@0	see graph	PASS
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	128@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	270@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@269	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@269	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

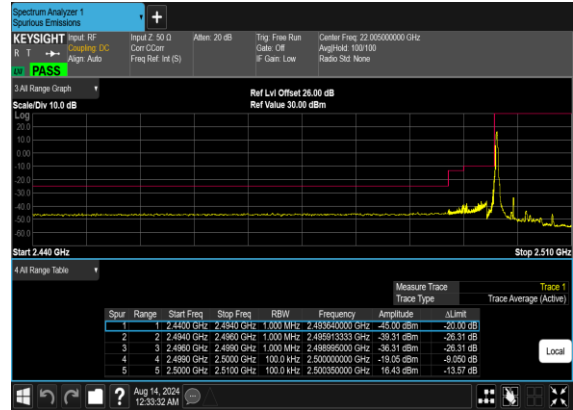




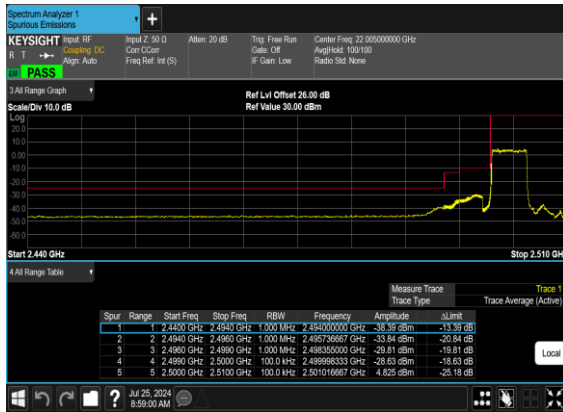
N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N7(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH

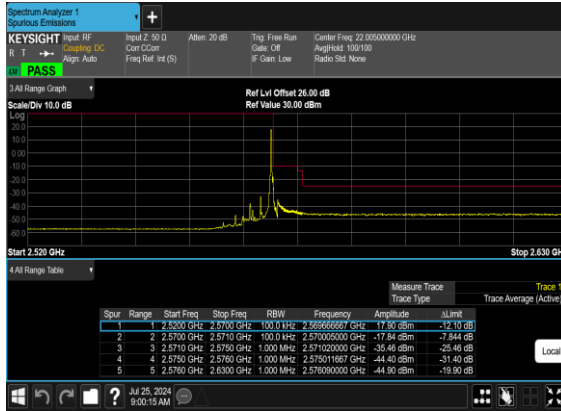


N7(5M)\_DFT-s-FDM\_QPSK\_Outer\_Full\_Low\_CH

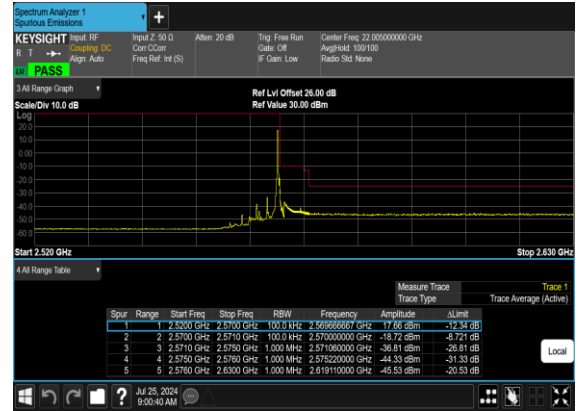




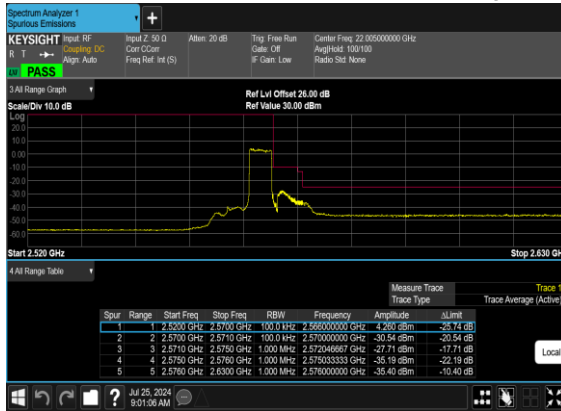
N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



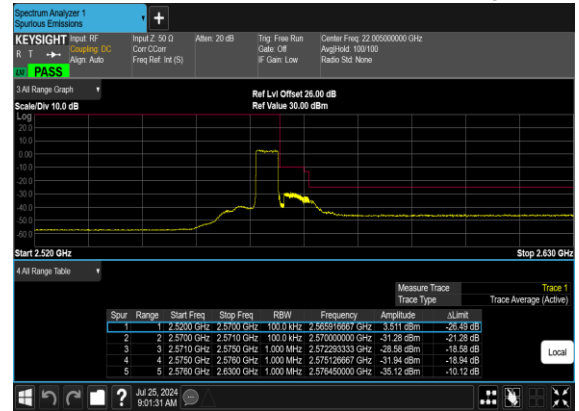
N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N7(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH

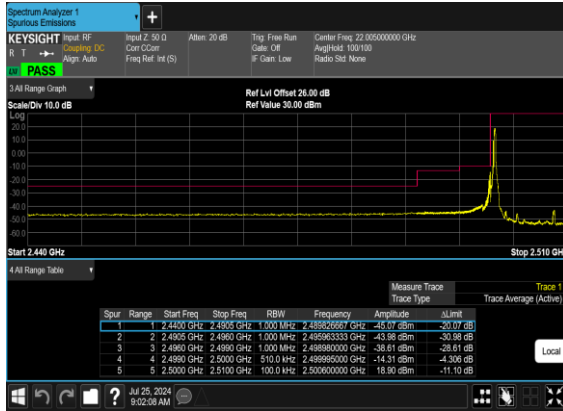


N7(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH

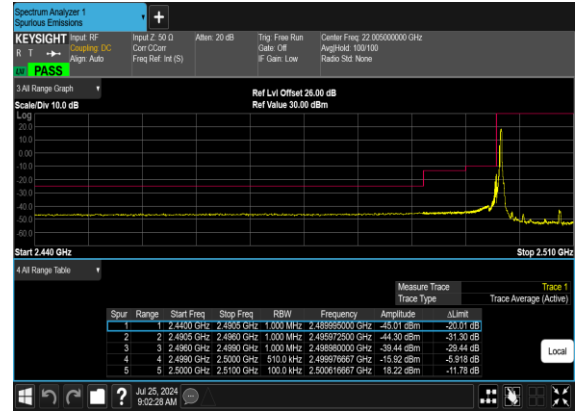




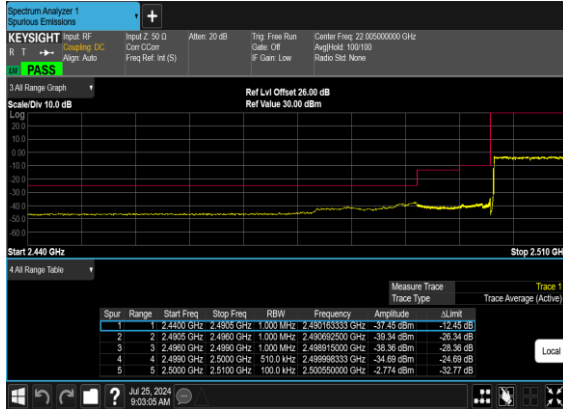
N7(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



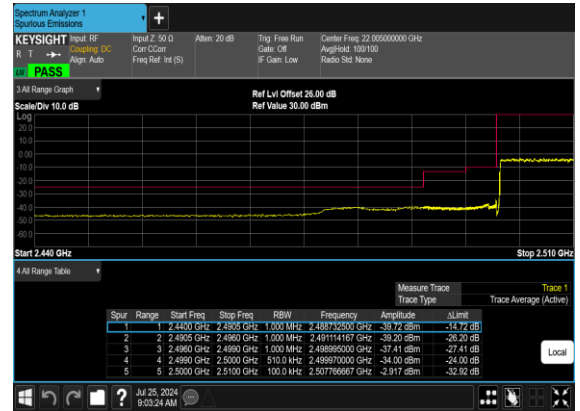
N7(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N7(25M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH

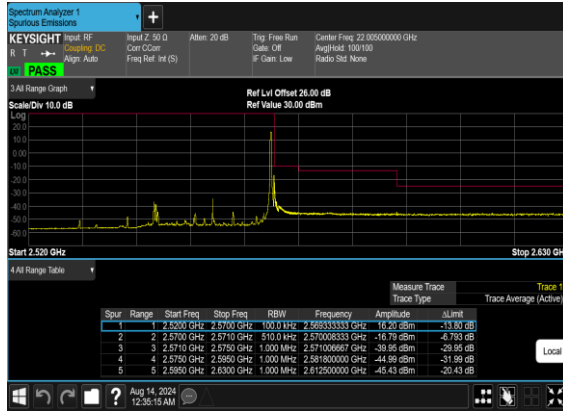


N7(25M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH

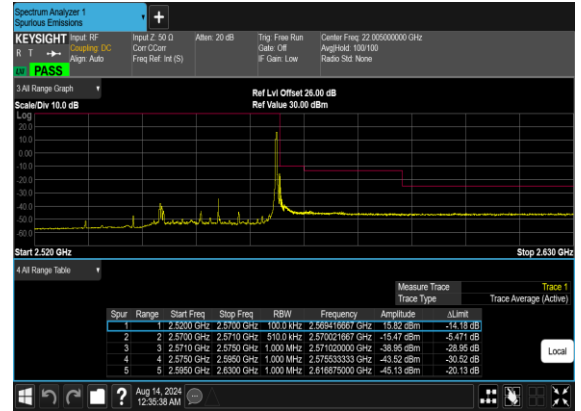




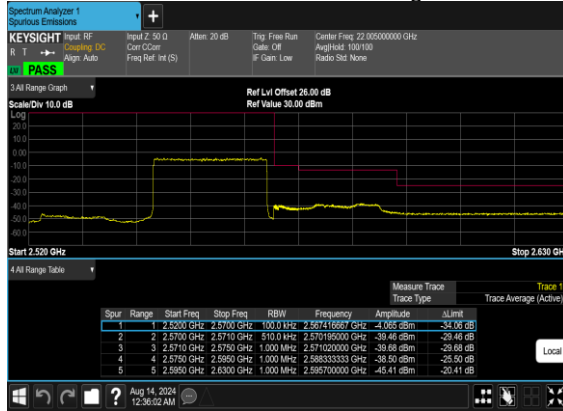
N7(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



N7(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N7(25M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



N7(25M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH

