



FCC RF Test Report

APPLICANT : Realme Chongqing Mobile Telecommunications Corp., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : realme
MODEL NAME : RMX5078
FCC ID : 2AUYFRMX5078
STANDARD : 47 CFR Part 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Feb. 12, 2025 ~ Mar. 05, 2025

We, Sporton International Inc. (ShenZhen), 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. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D2714G	Rev. 01	Initial issue of report	Mar. 05, 2025

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	N/A	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 ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §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 ₁₀ (P[Watts])	PASS	Under limit 27.87 dB at 10048.00 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/manufacture 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

Realme Chongqing Mobile Telecommunications Corp., Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

1.2 Manufacturer

Realme Chongqing Mobile Telecommunications Corp., Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	realme
Model Name	RMX5078
FCC ID	2AUYFRMX5078
IMEI Code	Conducted : 865317070019874 Radiation : 865317070019718/865317070019700
HW Version	11
SW Version	realme UI 6.0
EUT Stage	Production Unit

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 Bands, 30kHz for TDD Bands
Antenna Gain	<Ant. 1>: n7: 0.38 dBi n38: 0.38 dBi n41: 0.38 dBi <Ant. 3>: n7: 0.66 dBi n38: 0.66 dBi

	n41: 0.66 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: 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 n7/38/41 for Ant. 3.
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 mode and NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode for n7/n41 for conducted test items, n38 is covered by n41 except for BW25Mhz.
4. 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		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	0.2500	4M46G7D	0.2018	4M48W7D
10	2505.0 ~ 2565.0	0.2500	9M27G7D	0.1995	9M28W7D
15	2507.5 ~ 2562.5	0.2529	14M1G7D	0.2004	14M1W7D
20	2510.0 ~ 2560.0	0.2483	18M9G7D	0.2014	18M9W7D
25	2512.5 ~ 2557.5	0.2495	23M8G7D	0.1995	23M8W7D
30	2515.0 ~ 2555.0	0.2535	28M5G7D	0.2042	28M6W7D
40	2520.0 ~ 2550.0	0.2506	38M5G7D	0.1995	38M5W7D
50	2525.0 ~ 2545.0	0.2541	48M2G7D	0.2000	48M2W7D

5G NR n38		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	0.2301	8M59G7D	0.1811	8M56W7D
15	2577.5 ~ 2612.5	0.2275	13M6G7D	0.1791	13M6W7D
20	2580.0 ~ 2610.0	0.2618	18M2G7D	0.2113	18M2W7D
25	2582.5 ~ 2607.5	0.2286	23M1G7D	0.1774	23M2W7D
30	2585.0 ~ 2605.0	0.2630	27M8G7D	0.2084	27M8W7D
40	2590.0 ~ 2600.0	0.2679	37M8G7D	0.2173	37M8W7D



5G NR n41		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	0.2723	8M59G7D	0.2123	8M56W7D
15	2503.50 ~ 2682.48	0.2710	13M6G7D	0.2183	13M6W7D
20	2506.02 ~ 2679.99	0.2704	18M2G7D	0.2168	18M2W7D
30	2511.00 ~ 2674.98	0.2704	27M8G7D	0.2188	27M8W7D
40	2516.01 ~ 2670.00	0.2780	37M8G7D	0.2228	37M8W7D
50	2521.02 ~ 2664.99	0.2716	47M4G7D	0.2198	47M6W7D
60	2526.00 ~ 2659.98	0.2692	57M9G7D	0.2213	57M9W7D
80	2536.02 ~ 2649.99	0.2723	77M6G7D	0.2223	77M6W7D
90	2541.00 ~ 2644.98	0.2698	87M5G7D	0.2218	87M6W7D
100	2546.01 ~ 2640.00	0.2812	97M6G7D	0.2239	97M7W7D

Note:

- 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 for BW25MHz .
- 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. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ 03CH02-SZ	CN1256	421272



1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

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.

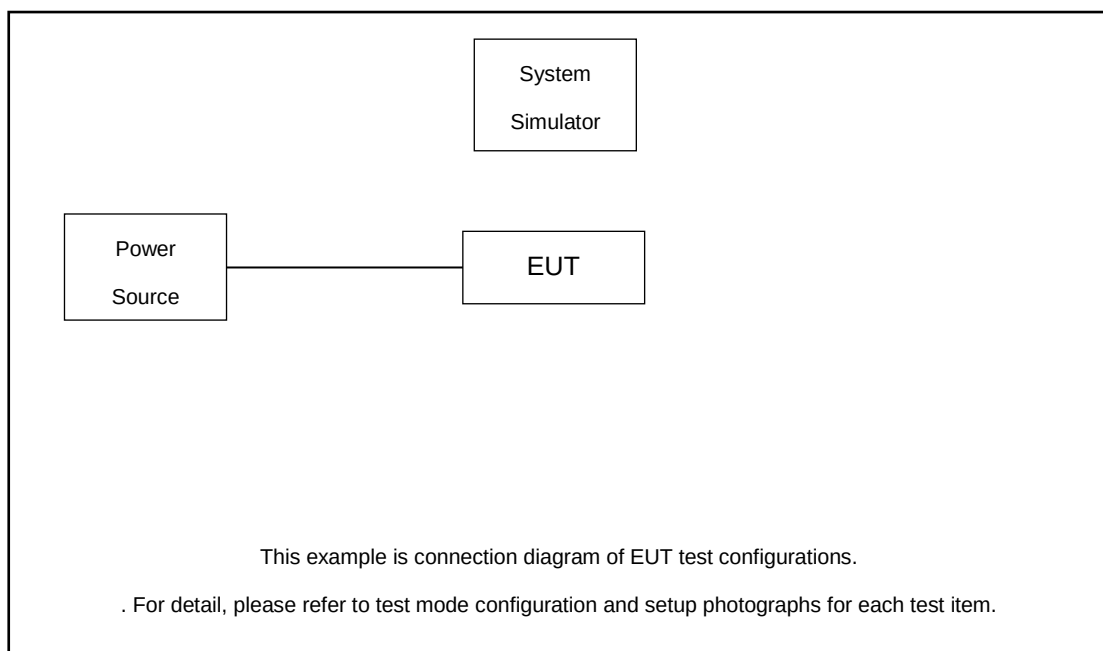
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

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	
	n38	-	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	
Peak-to-Average Ratio	n7				v					-	-	-	-	-	-	v					v		v		
	n41	-			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	
	n38	-				v			-	-	-	-	-	-		v				v	v	v		v	
	n41	-	v			-			v		-			v	-	v				v	v	v		v	
Conducted Spurious Emission	n7	v			v	v				-	-	-	-	-	-	v				v		v	v	v	
	n38	-				v			-	-	-	-	-	-		v				v		v	v	v	
	n41	-	v			-			v		-			v	-	v				v		v	v	v	
Frequency Stability	n7				v					-	-	-	-	-	-	v					v		v		
	n41	-			v	-					-				-	v					v		v		
E.I.R.P	n7	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	
	n38	-	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	
Radiated Spurious Emission	n7	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 = 3.92V ; Low Voltage =3.60V. ; High Voltage =4.53V																								

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 5.57 dB and 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 5.57 + 10 = 15.57 \text{ (dB)}\end{aligned}$$



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	525000
	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

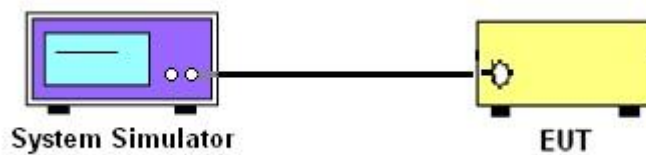
3 Conducted Test Items

3.1 Measuring Instruments

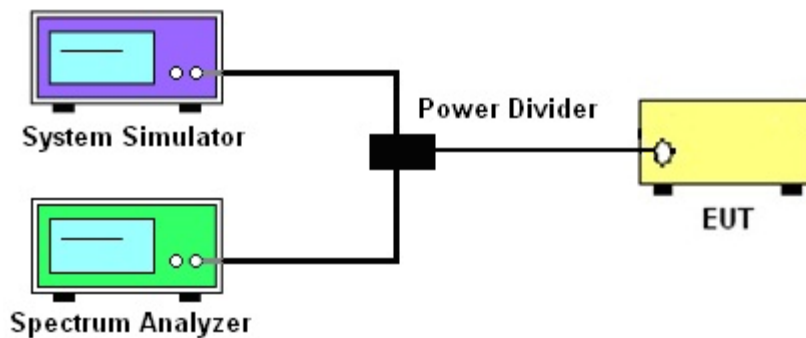
See list of measuring instruments of this test report.

3.2 Test Setup

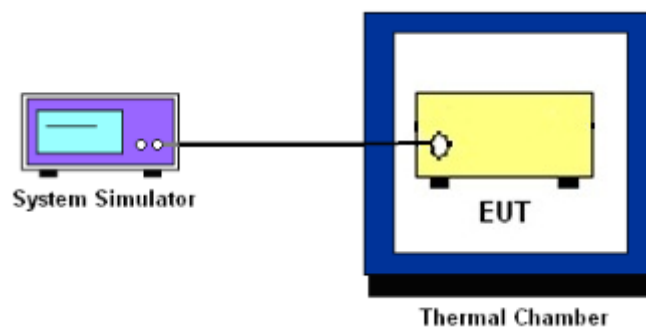
3.2.1 Conducted Output Power



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 than $43 + 10 \log (P)$ 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.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. For 5G NR n7/n38/n41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. 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 10th 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.

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°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°C step up to 50°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±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

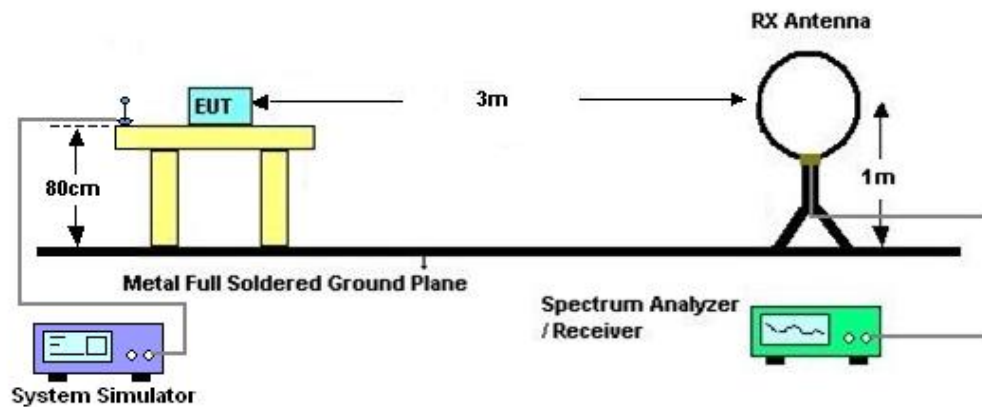
4 Radiated Test Items

4.1 Measuring Instruments

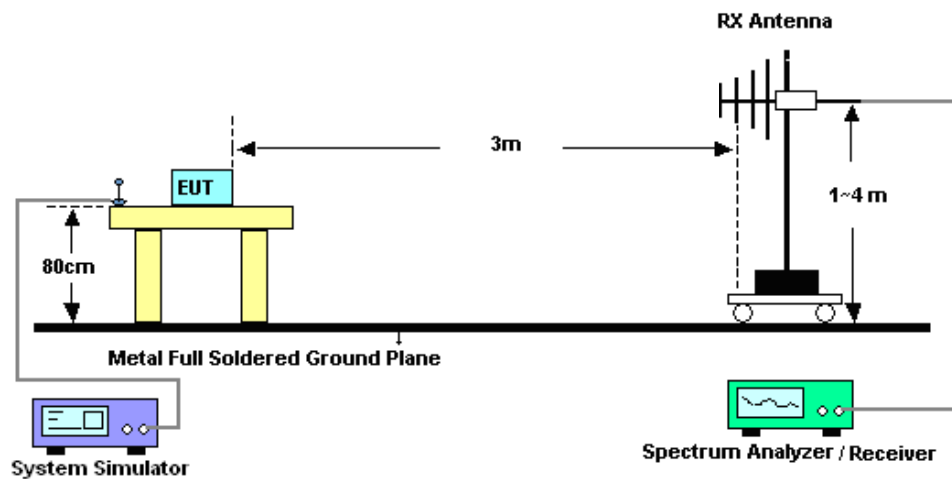
See list of measuring instruments of this test report.

4.2 Test Setup

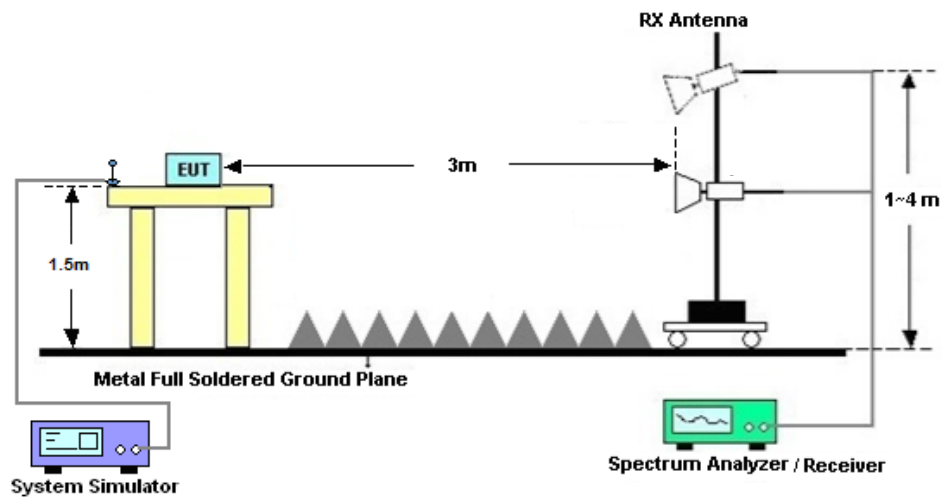
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

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

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

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	101078	10Hz~40GHz	Apr. 09, 2024	Feb. 12, 2025~ Mar. 05, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 24, 2024	Feb. 12, 2025~ Mar. 05, 2025	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Feb. 12, 2025~ Mar. 05, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Feb. 13, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Feb. 13, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Feb. 13, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Feb. 13, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Feb. 13, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Feb. 13, 2025	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Feb. 13, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Feb. 13, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Feb. 13, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Feb. 13, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Feb. 13, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Peak to Average Ratio	± 1.34 dB
Frequency Stability	± 1.3 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.72 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zheng	Temperature :	22~23°C
		Relative Humidity :	40~42%



Software Version: 23.06.1602

FR1 N7(ANT3)

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=0.66dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	12@6	23.09	23.75	0.2371
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@1	23.13	23.79	0.2393
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@23	23.22	23.88	0.2443
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	12@6	22.1	22.76	0.1888
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	22.17	22.83	0.1919
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@23	22.25	22.91	0.1954
7	15	5	507000	2535	DFT-s-OFDM QPSK	12@6	23.08	23.74	0.2366
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@1	23.05	23.71	0.2350
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@23	23.14	23.8	0.2399
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	12@6	22.19	22.85	0.1928
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.35	23.01	0.2000
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@23	22.36	23.02	0.2004
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	12@6	23.26	23.92	0.2466
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@1	23.3	23.96	0.2489
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@23	23.32	23.98	0.2500
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	12@6	22.28	22.94	0.1968
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	22.31	22.97	0.1982
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@23	22.39	23.05	0.2018
7	15	10	501000	2505	DFT-s-OFDM QPSK	25@12	23.12	23.78	0.2388
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@1	23.12	23.78	0.2388
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@50	23.17	23.83	0.2415
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	25@12	22.13	22.79	0.1901
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@1	22.21	22.87	0.1936
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@50	22.26	22.92	0.1959
7	15	10	507000	2535	DFT-s-OFDM QPSK	25@12	23	23.66	0.2323
7	15	10	507000	2535	DFT-s-OFDM	1@1	23.11	23.77	0.2382



					QPSK				
7	15	10	507000	2535	DFT-s-OFDM QPSK	1@50	23.09	23.75	0.2371
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	25@12	22.17	22.83	0.1919
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.32	22.98	0.1986
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@50	22.25	22.91	0.1954
7	15	10	513000	2565	DFT-s-OFDM QPSK	25@12	23.21	23.87	0.2438
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@1	23.3	23.96	0.2489
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@50	23.32	23.98	0.2500
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	25@12	22.25	22.91	0.1954
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@1	22.3	22.96	0.1977
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@50	22.34	23	0.1995
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	36@18	23.18	23.84	0.2421
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@1	23.16	23.82	0.2410
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@77	23.17	23.83	0.2415
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	36@18	22.17	22.83	0.1919
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	22.22	22.88	0.1941
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@77	22.21	22.87	0.1936
7	15	15	507000	2535	DFT-s-OFDM QPSK	36@18	23.1	23.76	0.2377
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@1	23.15	23.81	0.2404
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@77	23.15	23.81	0.2404
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	36@18	22.21	22.87	0.1936
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.3	22.96	0.1977
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@77	22.28	22.94	0.1968
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	36@18	23.21	23.87	0.2438
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@1	23.16	23.82	0.2410
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@77	23.37	24.03	0.2529
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	36@18	22.23	22.89	0.1945
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	22.29	22.95	0.1972
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@77	22.36	23.02	0.2004
7	15	20	502000	2510	DFT-s-OFDM QPSK	50@25	23.18	23.84	0.2421
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@1	23.07	23.73	0.2360



7	15	20	502000	2510	DFT-s-OFDM QPSK	1@104	23.14	23.8	0.2399
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	50@25	22.22	22.88	0.1941
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@1	22.19	22.85	0.1928
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@104	22.22	22.88	0.1941
7	15	20	507000	2535	DFT-s-OFDM QPSK	50@25	23.12	23.78	0.2388
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@1	23.05	23.71	0.2350
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@104	23.13	23.79	0.2393
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	50@25	22.25	22.91	0.1954
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.29	22.95	0.1972
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@104	22.23	22.89	0.1945
7	15	20	512000	2560	DFT-s-OFDM QPSK	50@25	23.25	23.91	0.2460
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@1	23.18	23.84	0.2421
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@104	23.29	23.95	0.2483
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	50@25	22.27	22.93	0.1963
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@1	22.32	22.98	0.1986
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@104	22.38	23.04	0.2014
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	64@32	23.14	23.8	0.2399
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@1	23.11	23.77	0.2382
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@131	23.1	23.76	0.2377
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	64@32	22.19	22.85	0.1928
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	1@1	22.22	22.88	0.1941
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	1@131	22.2	22.86	0.1932
7	15	25	507000	2535	DFT-s-OFDM QPSK	64@32	23.11	23.77	0.2382
7	15	25	507000	2535	DFT-s-OFDM QPSK	1@1	23.14	23.8	0.2399
7	15	25	507000	2535	DFT-s-OFDM QPSK	1@131	23.05	23.71	0.2350
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	64@32	22.2	22.86	0.1932
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.28	22.94	0.1968
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	1@131	22.24	22.9	0.1950
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	64@32	23.18	23.84	0.2421
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@1	23.2	23.86	0.2432
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@131	23.31	23.97	0.2495



7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	64@32	22.25	22.91	0.1954
7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	1@1	22.26	22.92	0.1959
7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	1@131	22.34	23	0.1995
7	15	30	503000	2515	DFT-s-OFDM QPSK	80@40	23.18	23.84	0.2421
7	15	30	503000	2515	DFT-s-OFDM QPSK	1@1	23.27	23.93	0.2472
7	15	30	503000	2515	DFT-s-OFDM QPSK	1@158	23.18	23.84	0.2421
7	15	30	503000	2515	DFT-s-OFDM 16 QAM	80@40	22.26	22.92	0.1959
7	15	30	503000	2515	DFT-s-OFDM 16 QAM	1@1	22.34	23	0.1995
7	15	30	503000	2515	DFT-s-OFDM 16 QAM	1@158	22.38	23.04	0.2014
7	15	30	507000	2535	DFT-s-OFDM QPSK	80@40	23.13	23.79	0.2393
7	15	30	507000	2535	DFT-s-OFDM QPSK	1@1	23.22	23.88	0.2443
7	15	30	507000	2535	DFT-s-OFDM QPSK	1@158	23.2	23.86	0.2432
7	15	30	507000	2535	DFT-s-OFDM 16 QAM	80@40	22.21	22.87	0.1936
7	15	30	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.38	23.04	0.2014
7	15	30	507000	2535	DFT-s-OFDM 16 QAM	1@158	22.38	23.04	0.2014
7	15	30	511000	2555	DFT-s-OFDM QPSK	80@40	23.22	23.88	0.2443
7	15	30	511000	2555	DFT-s-OFDM QPSK	1@1	23.18	23.84	0.2421
7	15	30	511000	2555	DFT-s-OFDM QPSK	1@158	23.38	24.04	0.2535
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	80@40	22.32	22.98	0.1986
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	1@1	22.34	23	0.1995
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	1@158	22.44	23.1	0.2042
7	15	40	504000	2520	DFT-s-OFDM QPSK	108@54	23.18	23.84	0.2421
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@1	23.26	23.92	0.2466
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@214	23.13	23.79	0.2393
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	108@54	22.25	22.91	0.1954
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@1	22.27	22.93	0.1963
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@214	22.2	22.86	0.1932
7	15	40	507000	2535	DFT-s-OFDM QPSK	108@54	23.14	23.8	0.2399
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@1	23.24	23.9	0.2455
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@214	23.19	23.85	0.2427
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	108@54	22.23	22.89	0.1945



7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.28	22.94	0.1968
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@214	22.29	22.95	0.1972
7	15	40	510000	2550	DFT-s-OFDM QPSK	108@54	23.16	23.82	0.2410
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@1	23.04	23.7	0.2344
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@214	23.33	23.99	0.2506
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	108@54	22.25	22.91	0.1954
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@1	22.34	23	0.1995
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@214	22.33	22.99	0.1991
7	15	50	505000	2525	DFT-s-OFDM QPSK	135@67	23.1	23.76	0.2377
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@1	23.2	23.86	0.2432
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@268	23.13	23.79	0.2393
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	135@67	22.22	22.88	0.1941
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@1	22.22	22.88	0.1941
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@268	22.27	22.93	0.1963
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	135@67	20.71	21.37	0.1371
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@1	20.39	21.05	0.1274
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@268	20.43	21.09	0.1285
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	135@67	18.7	19.36	0.0863
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@1	18.52	19.18	0.0828
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@268	18.54	19.2	0.0832
7	15	50	505000	2525	CP-OFDM QPSK	135@67	21.74	22.4	0.1738
7	15	50	505000	2525	CP-OFDM QPSK	1@1	21.58	22.24	0.1675
7	15	50	505000	2525	CP-OFDM QPSK	1@268	21.64	22.3	0.1698
7	15	50	507000	2535	DFT-s-OFDM QPSK	135@67	23.11	23.77	0.2382
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@1	23.39	24.05	0.2541
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@268	23.19	23.85	0.2427
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	135@67	22.23	22.89	0.1945
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.28	22.94	0.1968
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@268	22.32	22.98	0.1986
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	135@67	20.71	21.37	0.1371
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@1	20.39	21.05	0.1274
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@268	20.45	21.11	0.1291



7	15	50	507000	2535	DFT-s-OFDM 256 QAM	135@67	18.75	19.41	0.0873
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@1	18.55	19.21	0.0834
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@268	18.56	19.22	0.0836
7	15	50	507000	2535	CP-OFDM QPSK	135@67	21.73	22.39	0.1734
7	15	50	507000	2535	CP-OFDM QPSK	1@1	21.64	22.3	0.1698
7	15	50	507000	2535	CP-OFDM QPSK	1@268	21.69	22.35	0.1718
7	15	50	509000	2545	DFT-s-OFDM QPSK	135@67	23.14	23.8	0.2399
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@1	23.13	23.79	0.2393
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@268	23.32	23.98	0.2500
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	135@67	22.24	22.9	0.1950
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@1	22.31	22.97	0.1982
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@268	22.35	23.01	0.2000
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	135@67	20.72	21.38	0.1374
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@1	20.43	21.09	0.1285
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@268	20.43	21.09	0.1285
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	135@67	18.7	19.36	0.0863
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@1	18.63	19.29	0.0849
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@268	18.61	19.27	0.0845
7	15	50	509000	2545	CP-OFDM QPSK	135@67	21.73	22.39	0.1734
7	15	50	509000	2545	CP-OFDM QPSK	1@1	21.7	22.36	0.1722
7	15	50	509000	2545	CP-OFDM QPSK	1@268	21.76	22.42	0.1746

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	11.8	PASS	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	18.1	PASS	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	15.2	PASS	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	15.9	PASS	-30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	11.7	PASS	-20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	10.8	PASS	-10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	12.9	PASS	0°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	17.2	PASS	10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	18.5	PASS	20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	14.2	PASS	30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	18.8	PASS	40°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	11.7	PASS	50°C

$|\text{MAX}(\Delta f)| = 18.8 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2500.485281	$\geq 2500 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2568.431612	$\leq 2570 \text{ MHz}$	



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 QPSK	100@0	5.57	13	PASS

N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

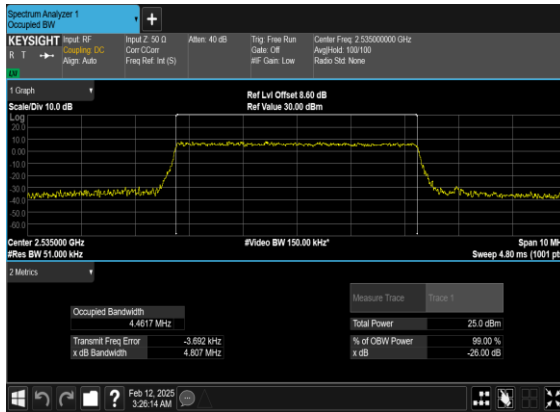
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4617	4.807
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4741	4.812
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4823	4.836
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.47	4.803
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.274	9.685
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2673	9.672
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2804	9.692
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.2668	9.753
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.1	14.67
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.084	14.71
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.112	14.61
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.129	14.67
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.891	19.68
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.89	19.68
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.918	19.65
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.847	19.64
7	15	25	507000	2535.0	CP-OFDM QPSK	133@0	23.754	24.65
7	15	25	507000	2535.0	CP-OFDM 16 QAM	133@0	23.759	24.74
7	15	25	507000	2535.0	CP-OFDM 64 QAM	133@0	23.732	24.63
7	15	25	507000	2535.0	CP-OFDM 256 QAM	133@0	23.683	24.63
7	15	30	507000	2535.0	CP-OFDM QPSK	160@0	28.488	29.64
7	15	30	507000	2535.0	CP-OFDM 16 QAM	160@0	28.476	29.55



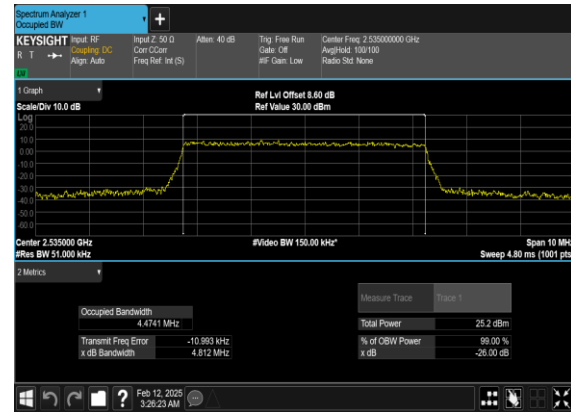
7	15	30	507000	2535.0	CP-OFDM 64 QAM	160@0	28.6	29.72
7	15	30	507000	2535.0	CP-OFDM 256 QAM	160@0	28.557	29.65
7	15	40	507000	2535.0	CP-OFDM QPSK	216@0	38.49	39.83
7	15	40	507000	2535.0	CP-OFDM 16 QAM	216@0	38.516	39.88
7	15	40	507000	2535.0	CP-OFDM 64 QAM	216@0	38.542	39.89
7	15	40	507000	2535.0	CP-OFDM 256 QAM	216@0	38.539	39.87
7	15	50	507000	2535.0	CP-OFDM QPSK	270@0	48.188	49.71
7	15	50	507000	2535.0	CP-OFDM 16 QAM	270@0	48.109	49.76
7	15	50	507000	2535.0	CP-OFDM 64 QAM	270@0	48.174	49.78
7	15	50	507000	2535.0	CP-OFDM 256 QAM	270@0	48.197	49.79



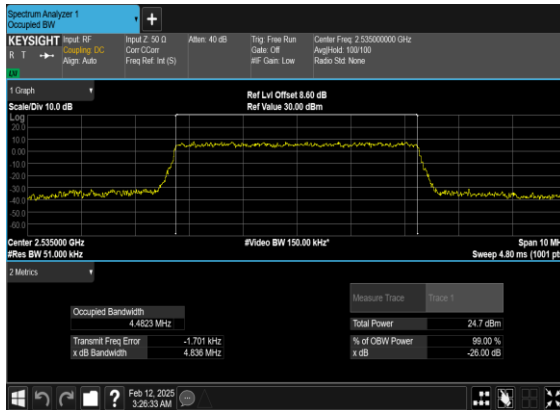
N7(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



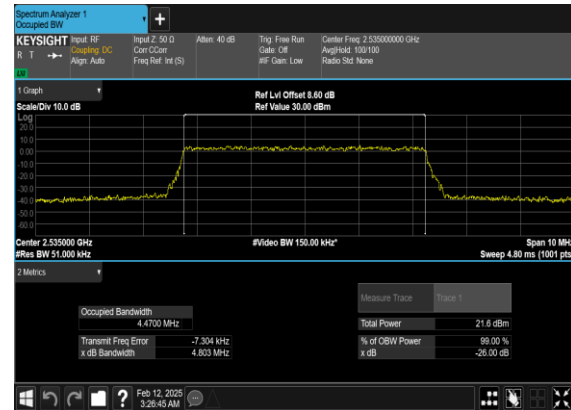
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QAM_Outer_Full_Mid_CH



N7(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

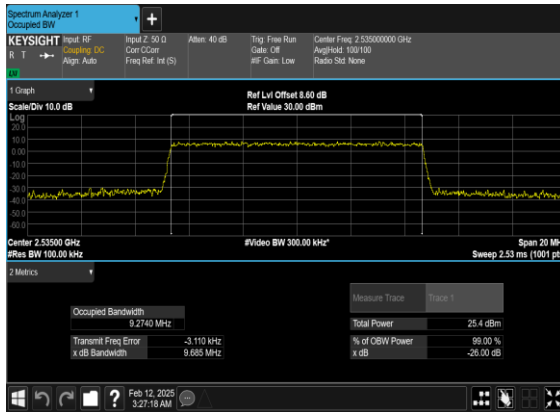


N7(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

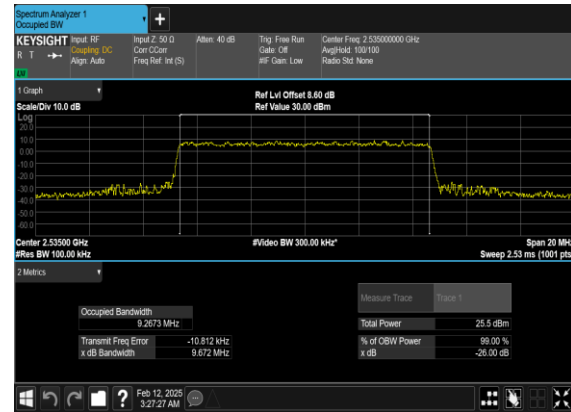




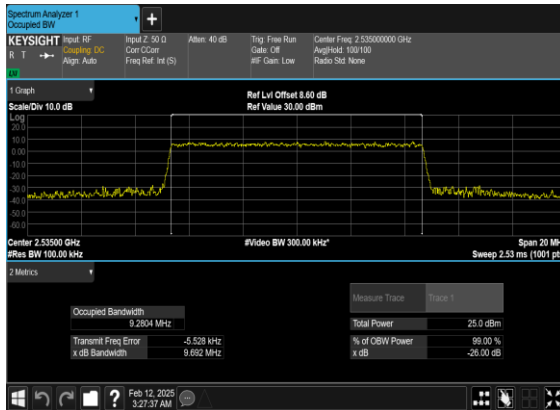
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OFDM_QPSK_Outer_Full_Mid_CH



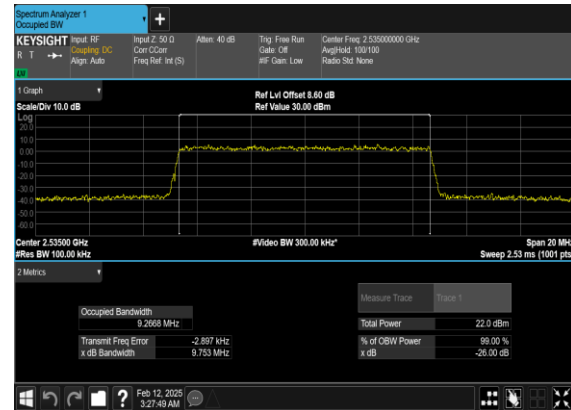
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QAM_Outer_Full_Mid_CH



N7(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

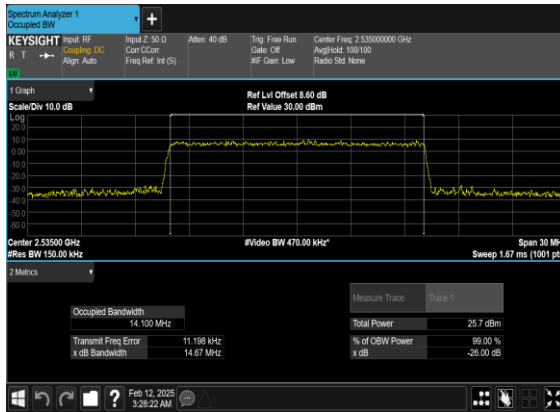


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QAM_Outer_Full_Mid_CH

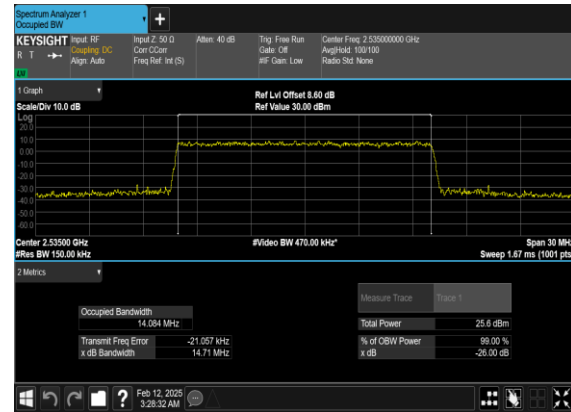




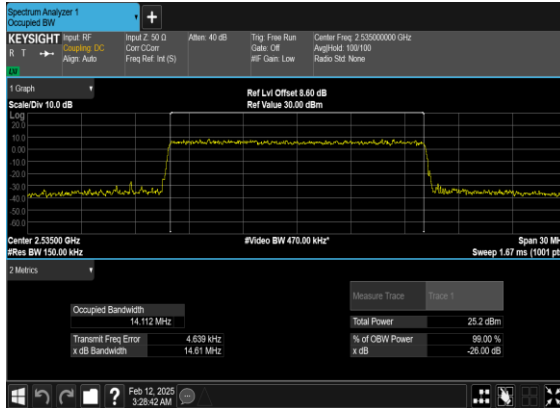
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OFDM_QPSK_Outer_Full_Mid_CH



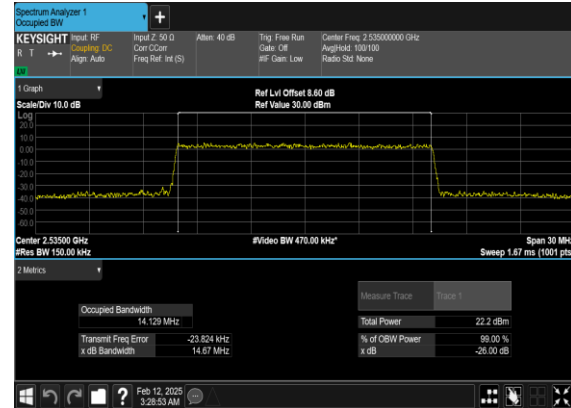
N7(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N7(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

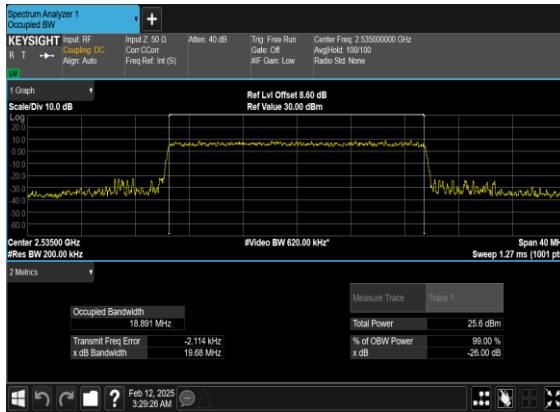


N7(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

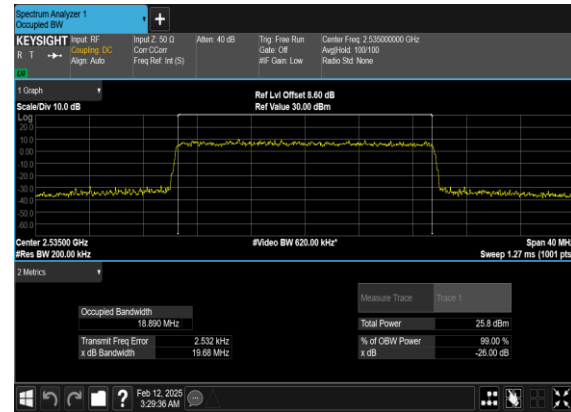




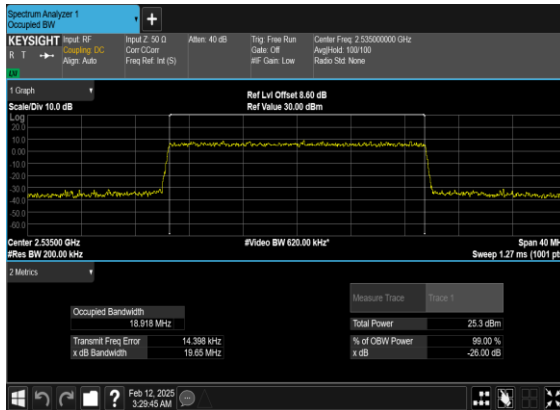
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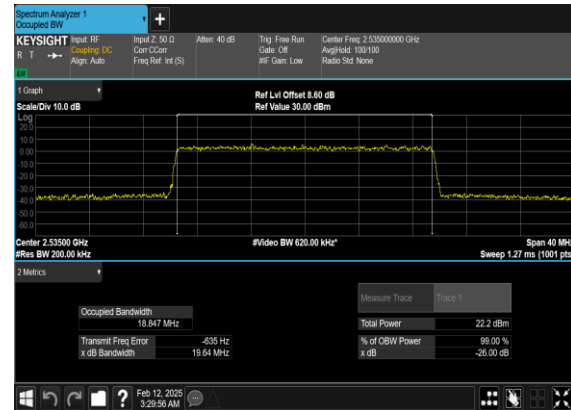
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QAM_Outer_Full_Mid_CH



N7(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

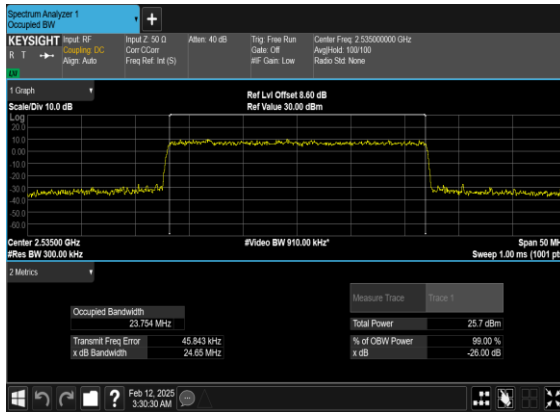


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QAM_Outer_Full_Mid_CH

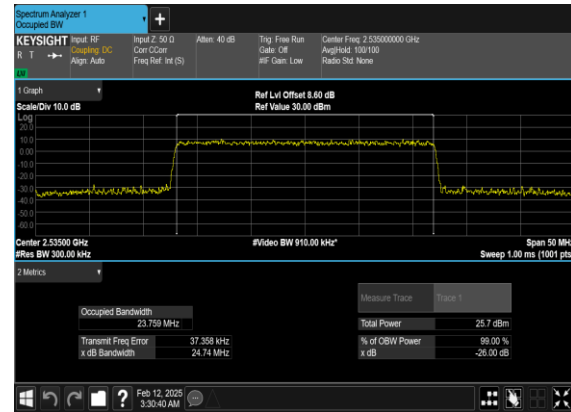




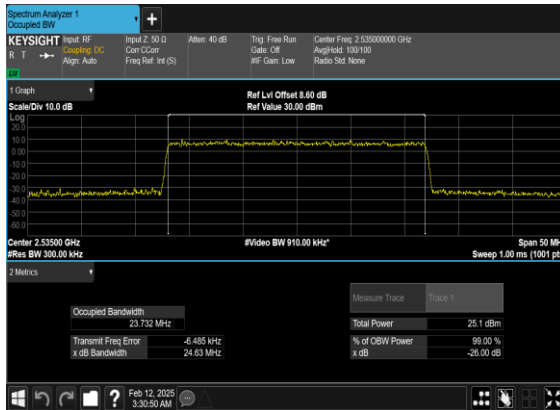
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OFDM_QPSK_Outer_Full_Mid_CH



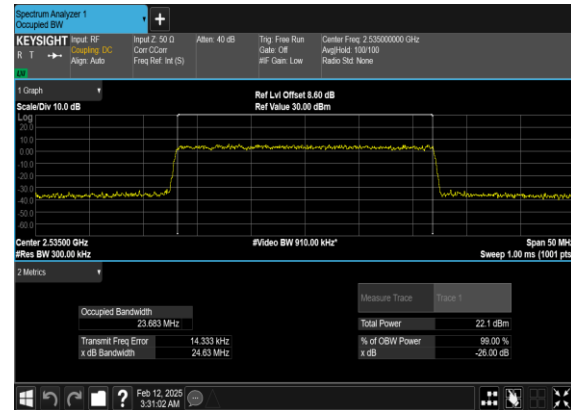
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QAM_Outer_Full_Mid_CH



N7(25M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

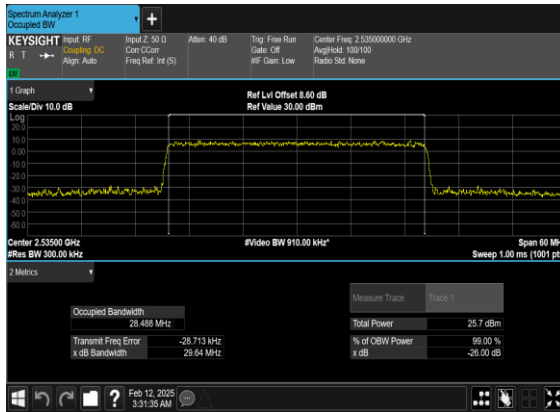


N7(25M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

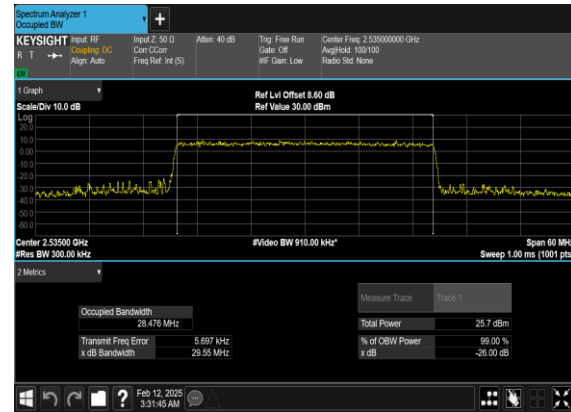




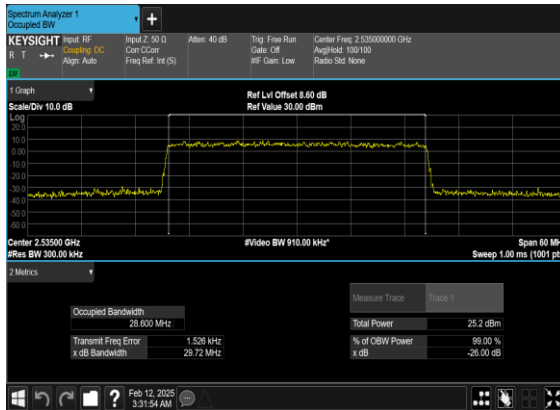
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OFDM_QPSK_Outer_Full_Mid_CH



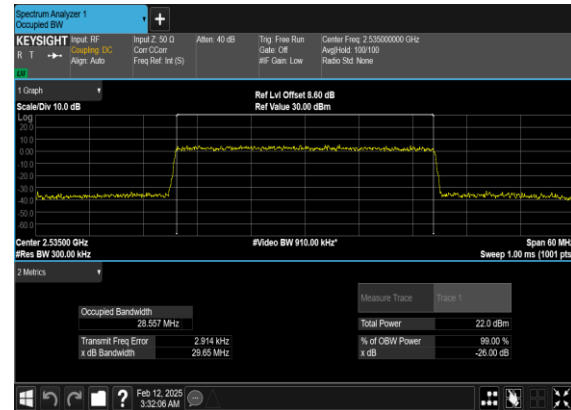
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QAM_Outer_Full_Mid_CH



N7(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

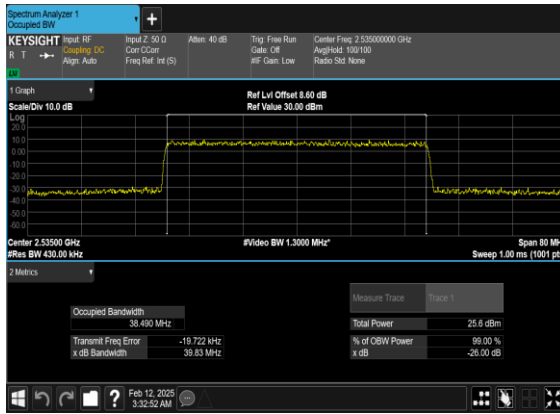


N7(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

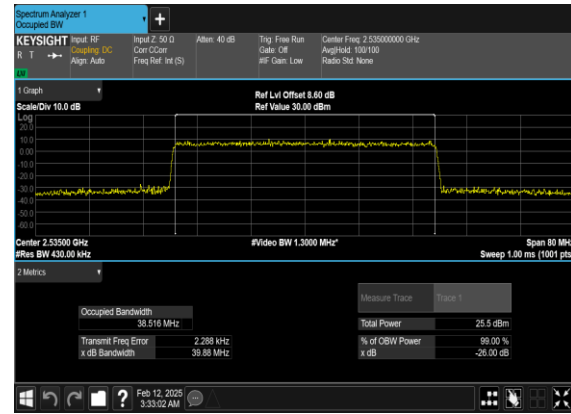




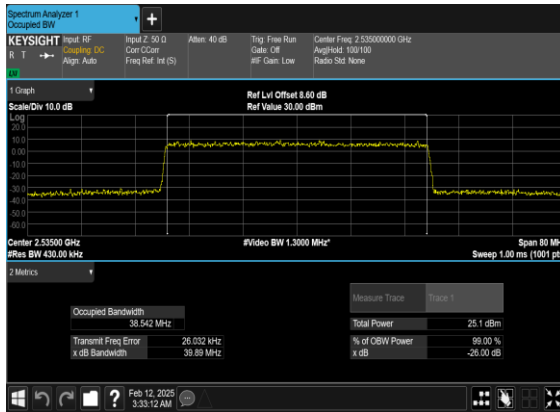
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OFDM_QPSK_Outer_Full_Mid_CH



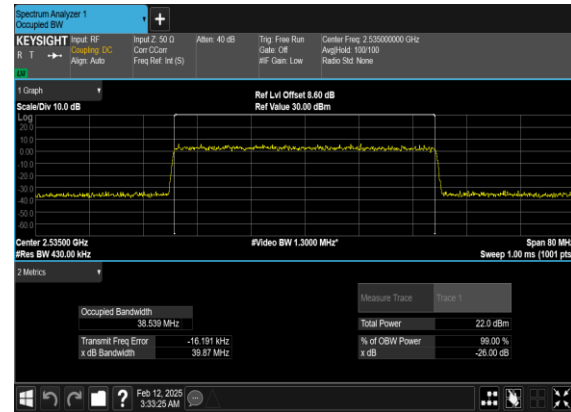
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QAM_Outer_Full_Mid_CH



N7(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

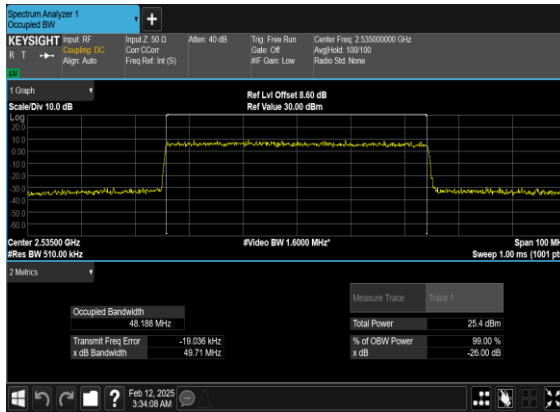


N7(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

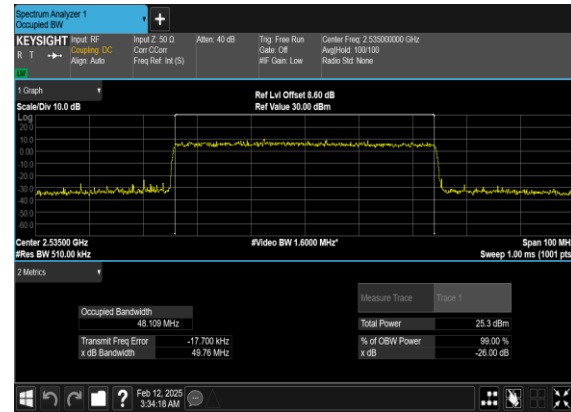




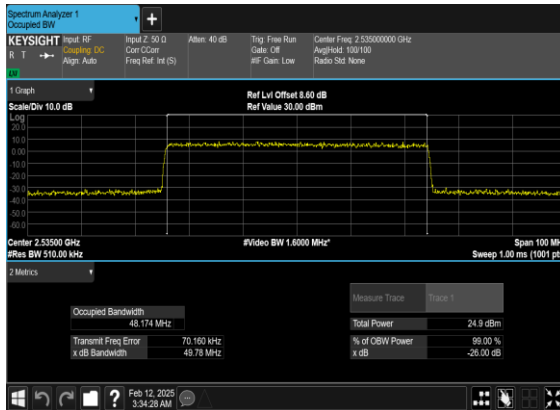
N7(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



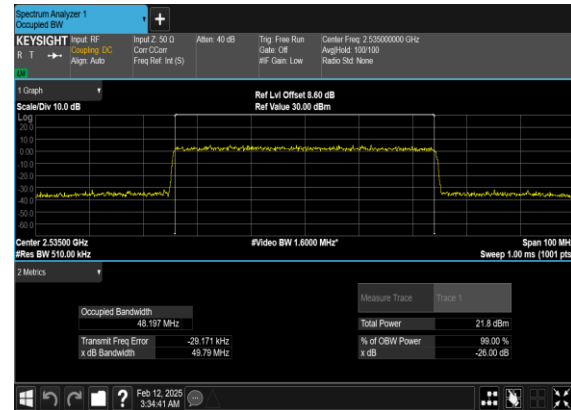
N7(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N7(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N7(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





Conducted Spurious Emissions

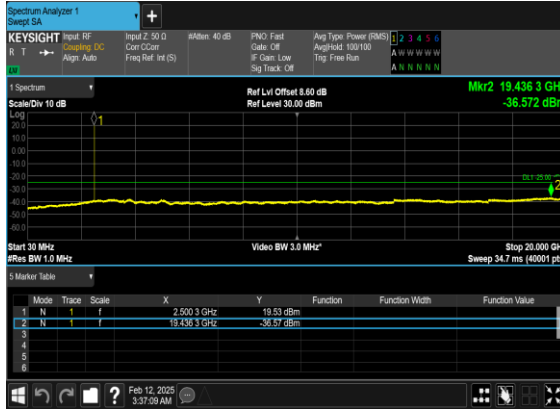
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
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 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	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



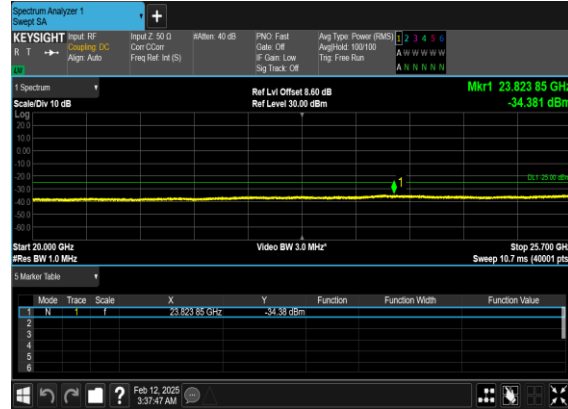
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	50	509000	2545.0	DFT-s-OFDM 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



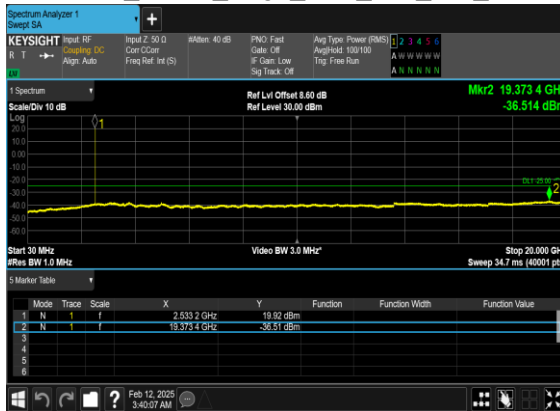
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



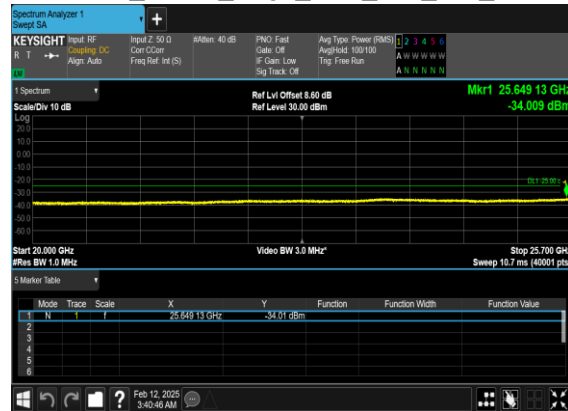
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

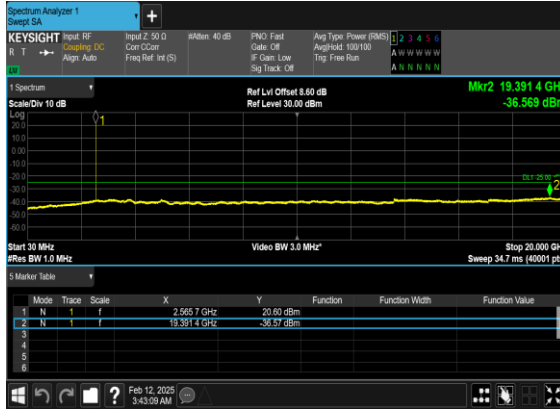


N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

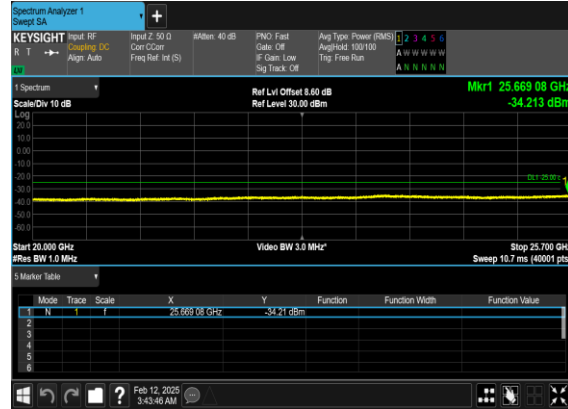




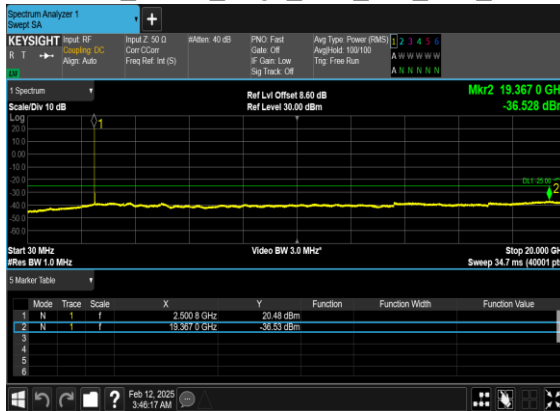
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



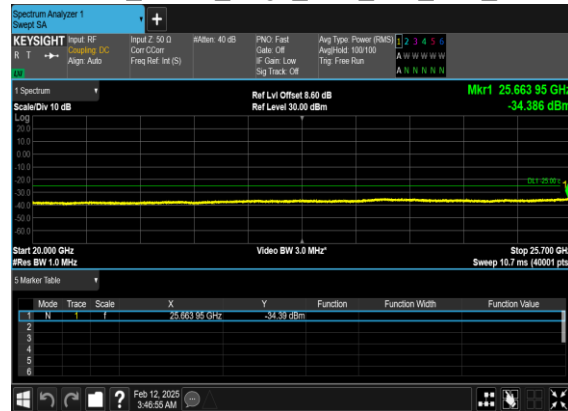
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

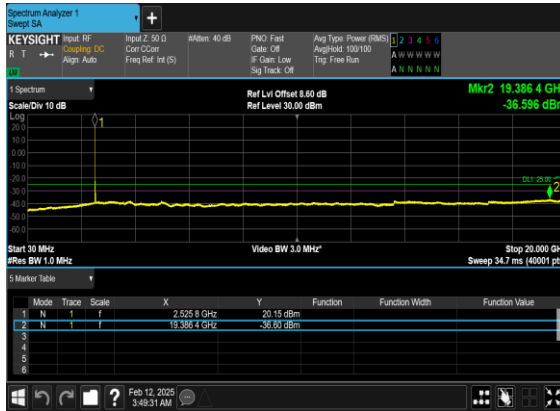


N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

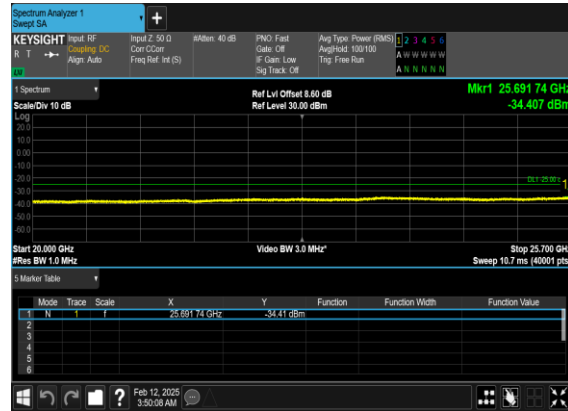




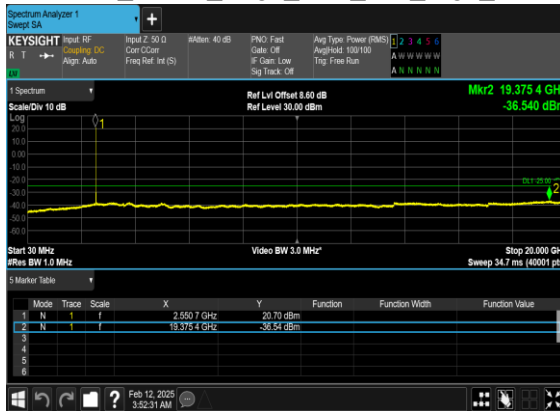
N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



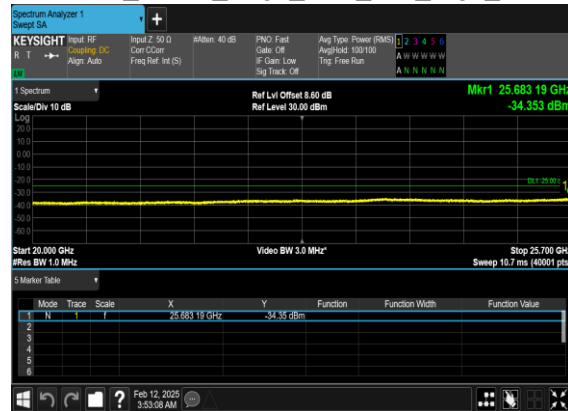
N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

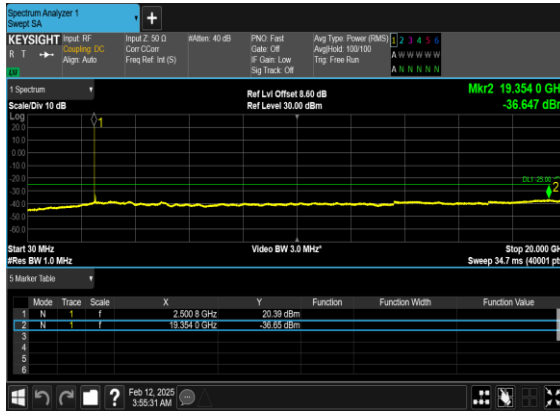


N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

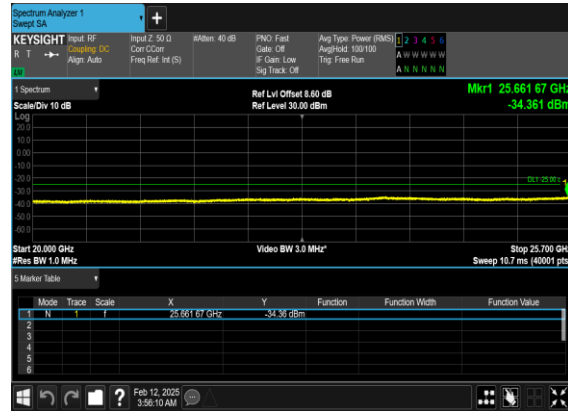




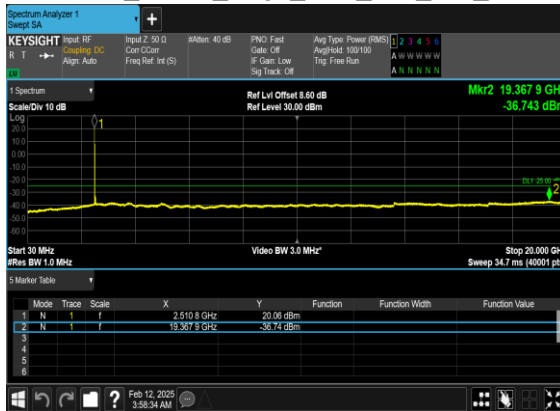
N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



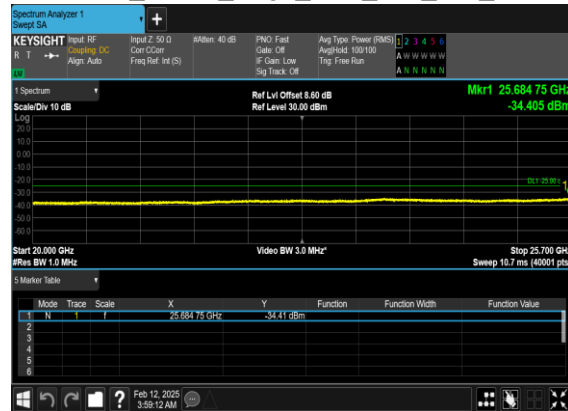
N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(50M)_DFT-s-
OFDM_QPSK_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_High_CH



N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

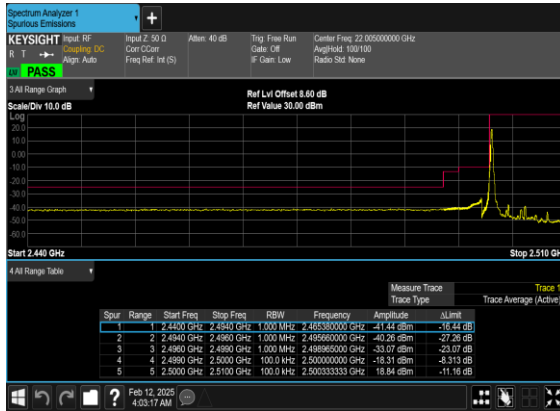


Conducted Band Edge

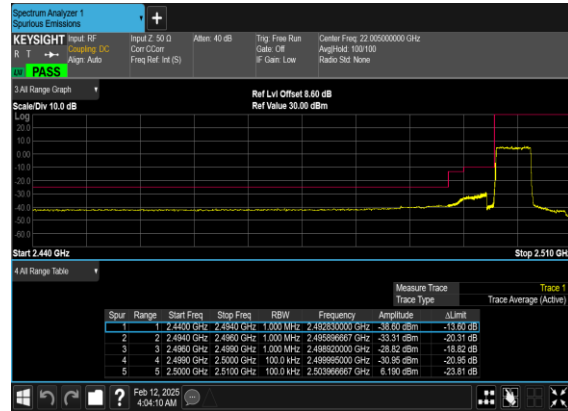
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	100@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 QPSK	270@0	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 QPSK	270@0	see graph	PASS



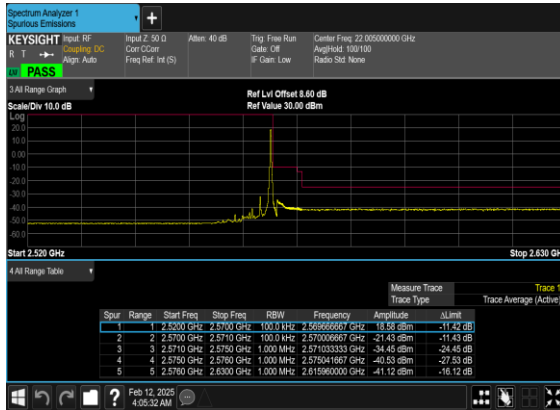
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



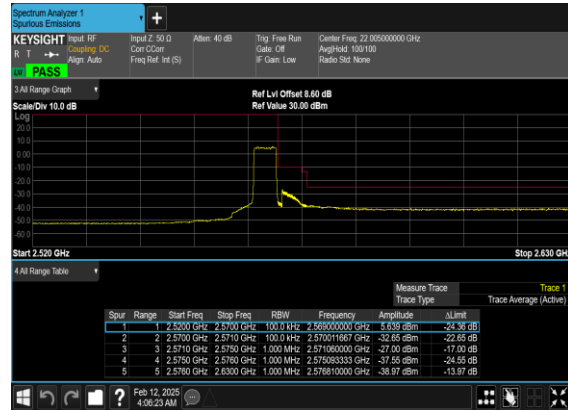
N7(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

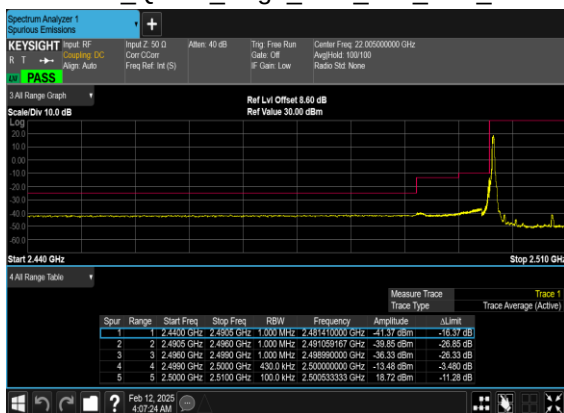
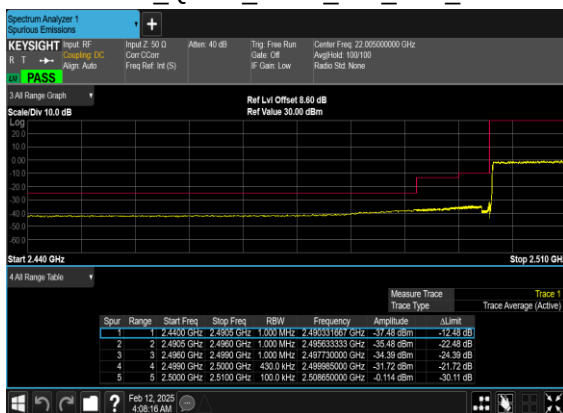
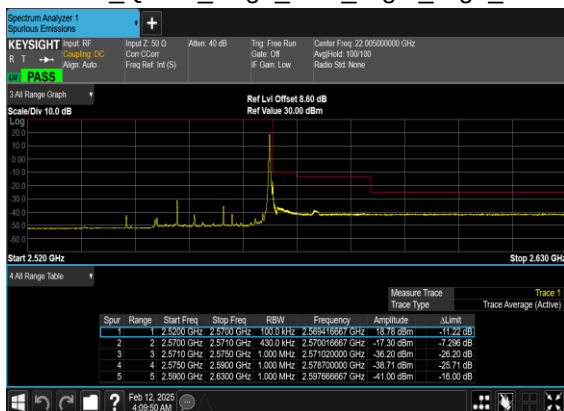
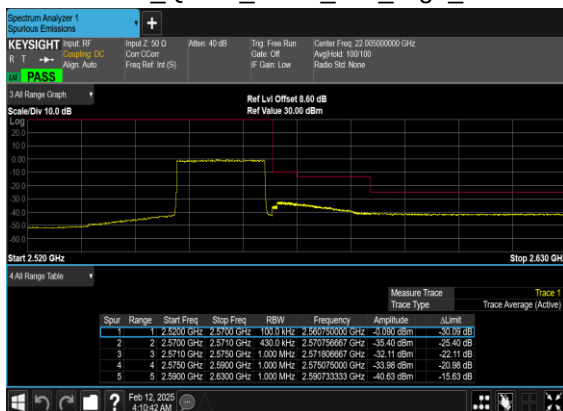


N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



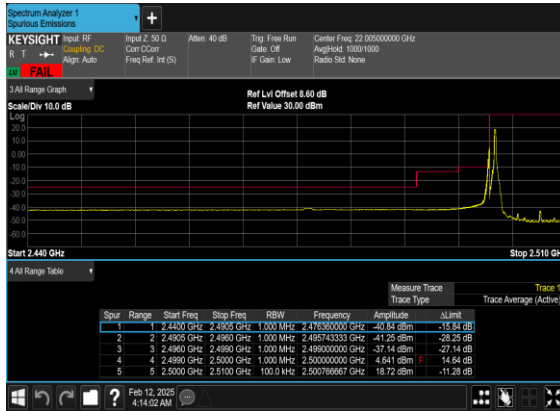
N7(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



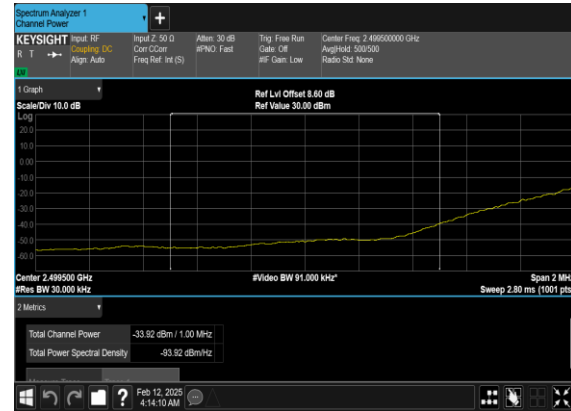
N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN7(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CHN7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CHN7(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



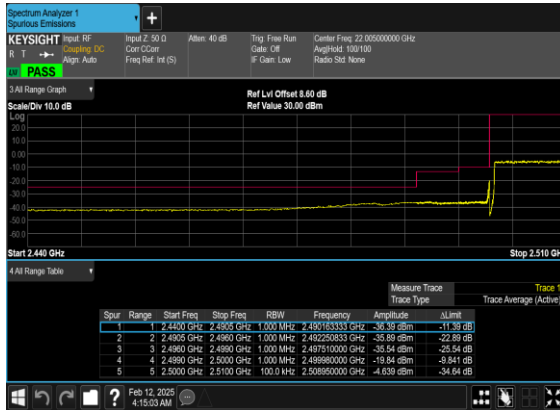
N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



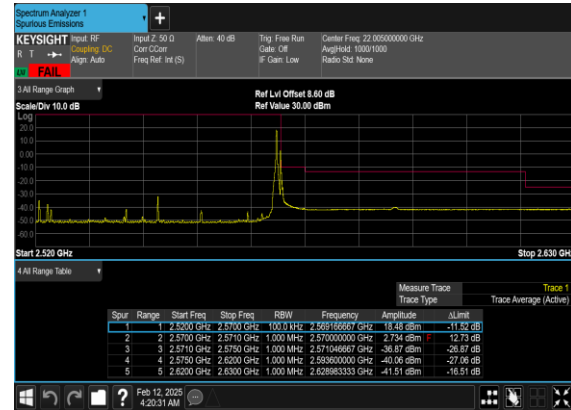
N7(50M)_DFT-s-OFDM_QPSK
Edge_1RB_Left_Low_CH_CHP_PASS



N7(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

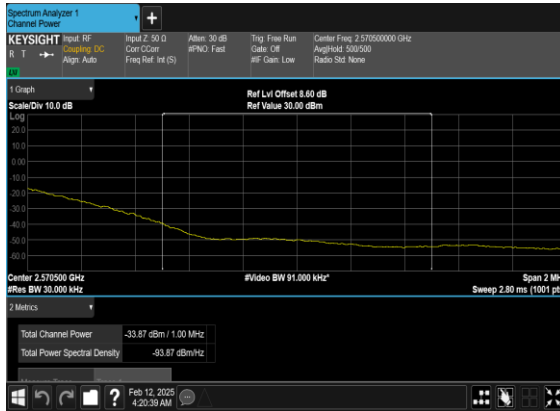


N7(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

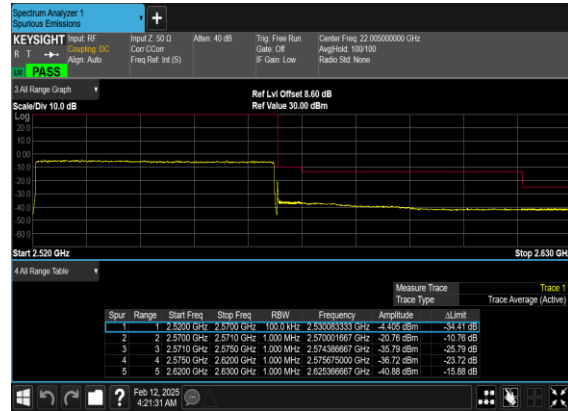




N7(50M)_DFT-s-OFDM_QPSK
Edge_1RB_Right_High_CH_CHP_PASS



N7(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N38 (ANT3)

LTE Band: 2, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, ($G_T - L_c$)=0.66dB

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
38	30	10	515000	2575	DFT-s-OFDM QPSK	12@6	22.74	23.4	0.2188
38	30	10	515000	2575	DFT-s-OFDM QPSK	1@1	22.63	23.29	0.2133
38	30	10	515000	2575	DFT-s-OFDM QPSK	1@22	22.75	23.41	0.2193
38	30	10	515000	2575	DFT-s-OFDM 16 QAM	12@6	21.74	22.4	0.1738
38	30	10	515000	2575	DFT-s-OFDM 16 QAM	1@1	21.63	22.29	0.1694
38	30	10	515000	2575	DFT-s-OFDM 16 QAM	1@22	21.76	22.42	0.1746
38	30	10	519000	2595	DFT-s-OFDM QPSK	12@6	22.84	23.5	0.2239
38	30	10	519000	2595	DFT-s-OFDM QPSK	1@1	22.96	23.62	0.2301
38	30	10	519000	2595	DFT-s-OFDM QPSK	1@22	22.79	23.45	0.2213
38	30	10	519000	2595	DFT-s-OFDM 16 QAM	12@6	21.83	22.49	0.1774
38	30	10	519000	2595	DFT-s-OFDM 16 QAM	1@1	21.92	22.58	0.1811
38	30	10	519000	2595	DFT-s-OFDM 16 QAM	1@22	21.79	22.45	0.1758
38	30	10	523000	2615	DFT-s-OFDM QPSK	12@6	22.78	23.44	0.2208
38	30	10	523000	2615	DFT-s-OFDM QPSK	1@1	22.68	23.34	0.2158
38	30	10	523000	2615	DFT-s-OFDM QPSK	1@22	22.82	23.48	0.2228
38	30	10	523000	2615	DFT-s-OFDM 16 QAM	12@6	21.77	22.43	0.1750
38	30	10	523000	2615	DFT-s-OFDM 16 QAM	1@1	21.7	22.36	0.1722
38	30	10	523000	2615	DFT-s-OFDM 16 QAM	1@22	21.74	22.4	0.1738
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	18@9	22.8	23.46	0.2218
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@1	22.64	23.3	0.2138
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@36	22.82	23.48	0.2228
38	30	15	515500	2577.5	DFT-s-OFDM 16 QAM	18@9	21.79	22.45	0.1758
38	30	15	515500	2577.5	DFT-s-OFDM 16 QAM	1@1	21.65	22.31	0.1702
38	30	15	515500	2577.5	DFT-s-OFDM 16 QAM	1@36	21.87	22.53	0.1791
38	30	15	519000	2595	DFT-s-OFDM QPSK	18@9	22.91	23.57	0.2275
38	30	15	519000	2595	DFT-s-OFDM QPSK	1@1	22.83	23.49	0.2234
38	30	15	519000	2595	DFT-s-OFDM QPSK	1@36	22.83	23.49	0.2234
38	30	15	519000	2595	DFT-s-OFDM 16 QAM	18@9	21.84	22.5	0.1778
38	30	15	519000	2595	DFT-s-OFDM 16 QAM	1@1	21.83	22.49	0.1774
38	30	15	519000	2595	DFT-s-OFDM 16 QAM	1@36	21.73	22.39	0.1734
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	18@9	22.76	23.42	0.2198



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@1	22.61	23.27	0.2123
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@36	22.81	23.47	0.2223
38	30	15	522500	2612.5	DFT-s-OFDM 16 QAM	18@9	21.65	22.31	0.1702
38	30	15	522500	2612.5	DFT-s-OFDM 16 QAM	1@1	21.66	22.32	0.1706
38	30	15	522500	2612.5	DFT-s-OFDM 16 QAM	1@36	21.73	22.39	0.1734
38	30	20	516000	2580	DFT-s-OFDM QPSK	25@12	23.52	24.18	0.2618
38	30	20	516000	2580	DFT-s-OFDM QPSK	1@1	23.37	24.03	0.2529
38	30	20	516000	2580	DFT-s-OFDM QPSK	1@49	23.28	23.94	0.2477
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	25@12	22.59	23.25	0.2113
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	1@1	22.45	23.11	0.2046
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	1@49	22.38	23.04	0.2014
38	30	20	519000	2595	DFT-s-OFDM QPSK	25@12	23.43	24.09	0.2564
38	30	20	519000	2595	DFT-s-OFDM QPSK	1@1	23.29	23.95	0.2483
38	30	20	519000	2595	DFT-s-OFDM QPSK	1@49	23.25	23.91	0.2460
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	25@12	22.43	23.09	0.2037
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.39	23.05	0.2018
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	1@49	22.29	22.95	0.1972
38	30	20	522000	2610	DFT-s-OFDM QPSK	25@12	23.28	23.94	0.2477
38	30	20	522000	2610	DFT-s-OFDM QPSK	1@1	23.07	23.73	0.2360
38	30	20	522000	2610	DFT-s-OFDM QPSK	1@49	23.22	23.88	0.2443
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	25@12	22.39	23.05	0.2018
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	1@1	22.12	22.78	0.1897
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	1@49	22.27	22.93	0.1963
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	32@16	22.83	23.49	0.2234
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	1@1	22.6	23.26	0.2118
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	1@63	22.8	23.46	0.2218
38	30	25	516500	2582.5	DFT-s-OFDM 16 QAM	32@16	21.78	22.44	0.1754
38	30	25	516500	2582.5	DFT-s-OFDM 16 QAM	1@1	21.56	22.22	0.1667
38	30	25	516500	2582.5	DFT-s-OFDM 16 QAM	1@63	21.83	22.49	0.1774
38	30	25	519000	2595	DFT-s-OFDM QPSK	32@16	22.93	23.59	0.2286
38	30	25	519000	2595	DFT-s-OFDM QPSK	1@1	22.76	23.42	0.2198
38	30	25	519000	2595	DFT-s-OFDM QPSK	1@63	22.65	23.31	0.2143
38	30	25	519000	2595	DFT-s-OFDM 16 QAM	32@16	21.83	22.49	0.1774
38	30	25	519000	2595	DFT-s-OFDM 16 QAM	1@1	21.8	22.46	0.1762
38	30	25	519000	2595	DFT-s-OFDM 16 QAM	1@63	21.71	22.37	0.1726
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	32@16	22.67	23.33	0.2153
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	1@1	22.71	23.37	0.2173
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	1@63	22.76	23.42	0.2198
38	30	25	521500	2607.5	DFT-s-OFDM 16 QAM	32@16	21.67	22.33	0.1710



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
38	30	25	521500	2607.5	DFT-s-OFDM 16 QAM	1@1	21.78	22.44	0.1754
38	30	25	521500	2607.5	DFT-s-OFDM 16 QAM	1@63	21.78	22.44	0.1754
38	30	30	517000	2585	DFT-s-OFDM QPSK	36@18	23.44	24.1	0.2570
38	30	30	517000	2585	DFT-s-OFDM QPSK	1@1	23.54	24.2	0.2630
38	30	30	517000	2585	DFT-s-OFDM QPSK	1@76	23.4	24.06	0.2547
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	36@18	22.48	23.14	0.2061
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	1@1	22.53	23.19	0.2084
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	1@76	22.44	23.1	0.2042
38	30	30	519000	2595	DFT-s-OFDM QPSK	36@18	23.51	24.17	0.2612
38	30	30	519000	2595	DFT-s-OFDM QPSK	1@1	23.48	24.14	0.2594
38	30	30	519000	2595	DFT-s-OFDM QPSK	1@76	23.37	24.03	0.2529
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	36@18	22.42	23.08	0.2032
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.5	23.16	0.2070
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	1@76	22.43	23.09	0.2037
38	30	30	521000	2605	DFT-s-OFDM QPSK	36@18	23.31	23.97	0.2495
38	30	30	521000	2605	DFT-s-OFDM QPSK	1@1	23.37	24.03	0.2529
38	30	30	521000	2605	DFT-s-OFDM QPSK	1@76	23.39	24.05	0.2541
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	36@18	22.32	22.98	0.1986
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	1@1	22.5	23.16	0.2070
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	1@76	22.46	23.12	0.2051
38	30	40	518000	2590	DFT-s-OFDM QPSK	50@25	23.39	24.05	0.2541
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@1	23.62	24.28	0.2679
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@104	23.41	24.07	0.2553
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	50@25	22.46	23.12	0.2051
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@1	22.71	23.37	0.2173
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@104	22.47	23.13	0.2056
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	50@25	21.01	21.67	0.1469
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@1	21.18	21.84	0.1528
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@104	21.08	21.74	0.1493
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	50@25	18.97	19.63	0.0918
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@1	18.86	19.52	0.0895
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@104	18.81	19.47	0.0885
38	30	40	518000	2590	CP-OFDM QPSK	53@26	21.92	22.58	0.1811
38	30	40	518000	2590	CP-OFDM QPSK	1@1	21.89	22.55	0.1799
38	30	40	518000	2590	CP-OFDM QPSK	1@104	21.85	22.51	0.1782
38	30	40	519000	2595	DFT-s-OFDM QPSK	50@25	23.36	24.02	0.2523
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@1	23.55	24.21	0.2636
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@104	23.48	24.14	0.2594
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	50@25	22.43	23.09	0.2037



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.71	23.37	0.2173
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@104	22.59	23.25	0.2113
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	50@25	21.03	21.69	0.1476
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@1	21.11	21.77	0.1503
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@104	21.08	21.74	0.1493
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	50@25	19.02	19.68	0.0929
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@1	18.87	19.53	0.0897
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@104	18.83	19.49	0.0889
38	30	40	519000	2595	CP-OFDM QPSK	53@26	21.97	22.63	0.1832
38	30	40	519000	2595	CP-OFDM QPSK	1@1	21.9	22.56	0.1803
38	30	40	519000	2595	CP-OFDM QPSK	1@104	21.81	22.47	0.1766
38	30	40	520000	2600	DFT-s-OFDM QPSK	50@25	23.36	24.02	0.2523
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@1	23.42	24.08	0.2559
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@104	23.44	24.1	0.2570
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	50@25	22.38	23.04	0.2014
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@1	22.52	23.18	0.2080
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@104	22.51	23.17	0.2075
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	50@25	20.95	21.61	0.1449
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@1	21.15	21.81	0.1517
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@104	21.06	21.72	0.1486
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	50@25	18.95	19.61	0.0914
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@1	18.83	19.49	0.0889
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@104	18.82	19.48	0.0887
38	30	40	520000	2600	CP-OFDM QPSK	53@26	21.89	22.55	0.1799
38	30	40	520000	2600	CP-OFDM QPSK	1@1	21.85	22.51	0.1782
38	30	40	520000	2600	CP-OFDM QPSK	1@104	21.81	22.47	0.1766

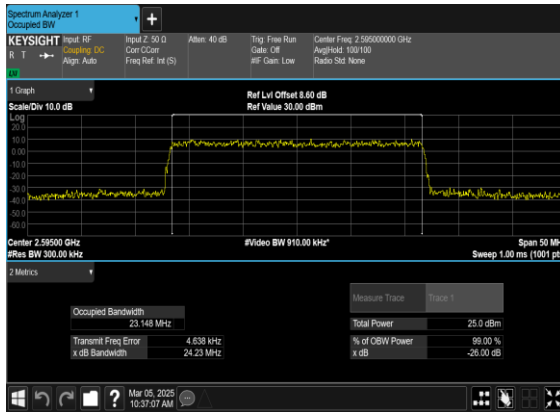


Occupied Bandwidth

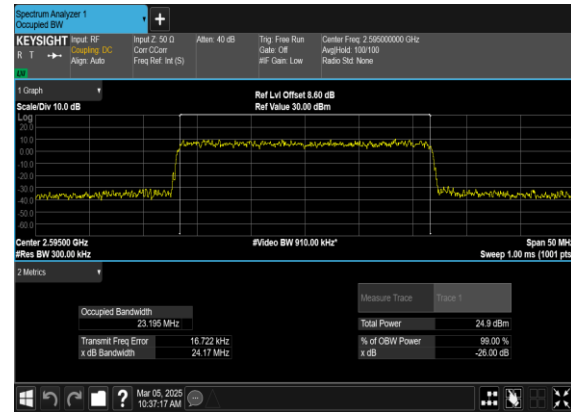
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
38	30	25	519000	2595.0	CP-OFDM QPSK	65@0	23.148	24.23
38	30	25	519000	2595.0	CP-OFDM 16 QAM	65@0	23.195	24.17
38	30	25	519000	2595.0	CP-OFDM 64 QAM	65@0	23.175	24.16
38	30	25	519000	2595.0	CP-OFDM 256 QAM	65@0	23.179	24.19



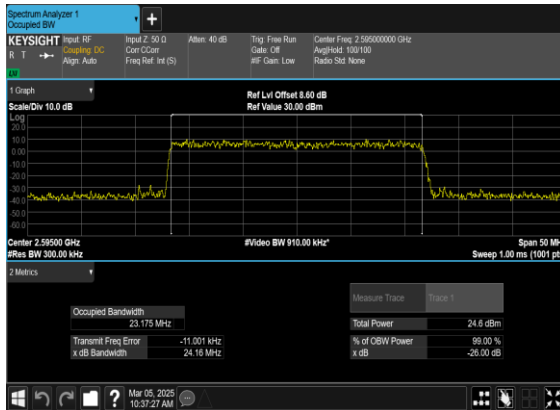
N38(25M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



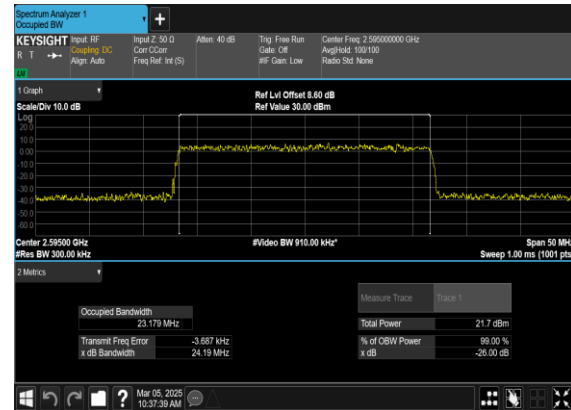
N38(25M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N38(25M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N38(25M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



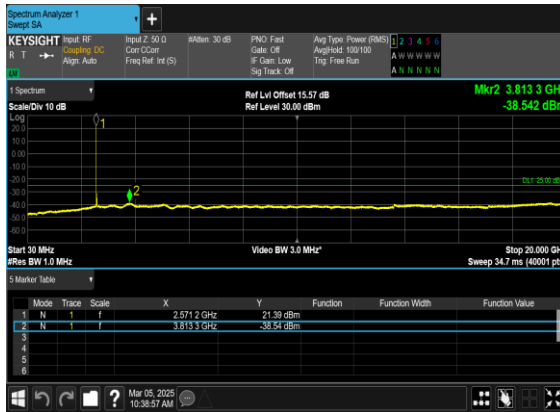


Conducted Spurious Emissions

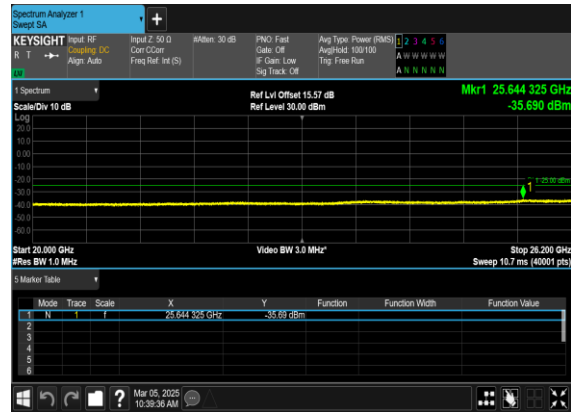
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	1@0	see graph	---
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	30	25	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	---
38	30	25	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	30	25	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	1@0	see graph	---
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	1@0	see graph	PASS



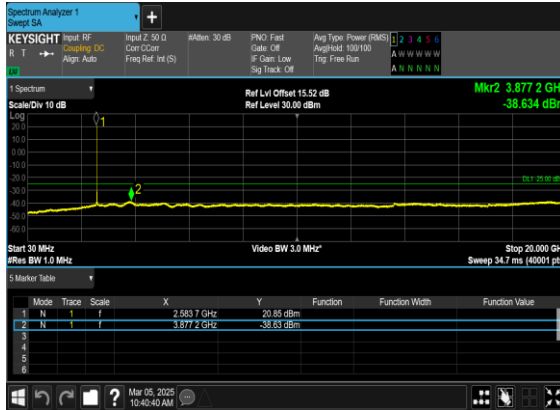
N38(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



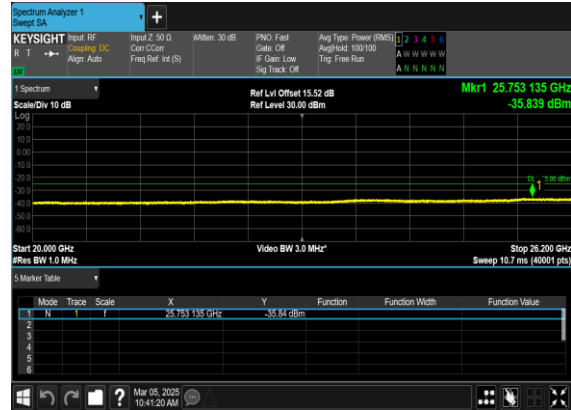
N38(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N38(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N38(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

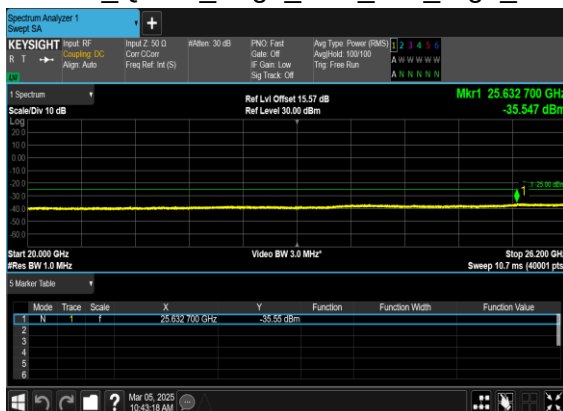




N38(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N38(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



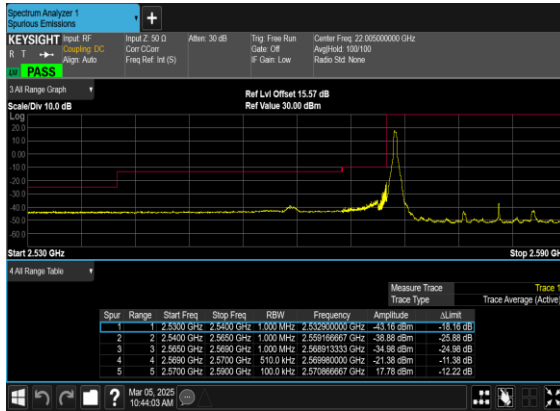


Conducted Band Edge

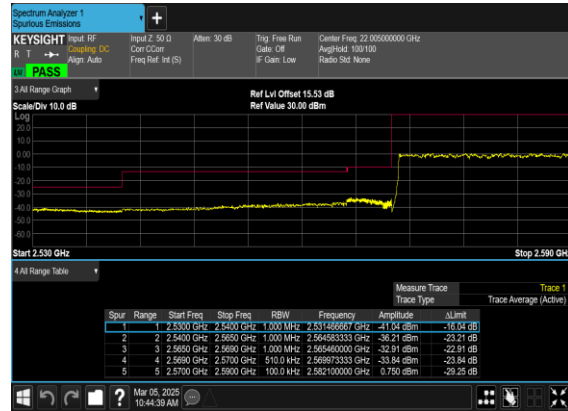
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	30	25	516500	2582.5	DFT-s-OFDM QPSK	64@0	see graph	PASS
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	1@64	see graph	PASS
38	30	25	521500	2607.5	DFT-s-OFDM QPSK	64@0	see graph	PASS



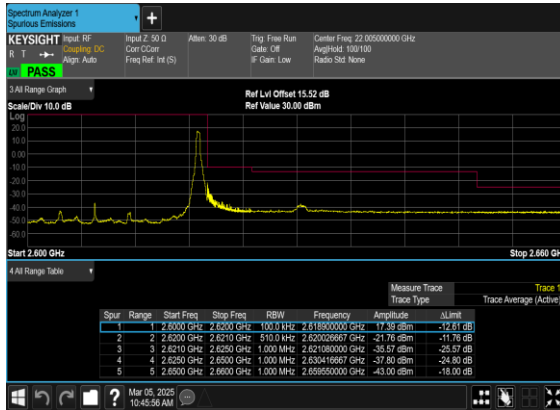
N38(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N38(25M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N38(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N38(25M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

