



FCC RF Test Report

APPLICANT : NOTHING TECHNOLOGY LIMITED
EQUIPMENT : Smart Phone
BRAND NAME : cmf by NOTHING
MODEL NAME : A001
FCC ID : 2AZEQ-A001
STANDARD : 47 CFR Part 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Dec. 31, 2024 ~ Jan. 09, 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.

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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
FG4N1331G	Rev. 01	Initial issue of report	Mar. 26, 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		
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77,)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41, n38)	§27.53(m)(4)	PASS	-
	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77)	< 43+10log ₁₀ (P[Watts])		
3.8	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41, n38)	< 55+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77)	< 43+10log ₁₀ (P[Watts])		
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 25.50 dB at 10103.200 MHz
	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77)	< 43+10log ₁₀ (P[Watts])		

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

NOTHING TECHNOLOGY LIMITED

Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

1.2 Manufacturer

NOTHING TECHNOLOGY LIMITED

Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	cmf by NOTHING
Model Name	A001
FCC ID	2AZEQ-A001
IMEI Code	Conducted : 353560160031528/353560160031536 Radiation : 353560160033102/353560160033110
HW Version	SM683_MB_T1
SW Version	Nothing OS 3.2
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 5G NR n77: 3700 MHz ~ 3980 MHz
Rx Frequency	5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n77: 3700 MHz ~ 3980 MHz
Bandwidth	n7: 5MHz / 10MHz / 15MHz / 20MHz n38 : 20MHz / 30MHz / 40MHz n41: 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz n77: 20MHz / 30MHz / 40MHz / 60MHz / 80MHz / 100MHz
SCS	15kHz for FDD Bands, 30kHz for TDD Bands,
Antenna Gain	<Ant. 1>: n7: -2.74 dBi n38: -3.36 dBi n41: -3.36 dBi n77: -1.24 dBi

	<Ant. 2>: n7: -0.59 dBi n38: -0.59 dBi n41: -0.59 dBi <Ant. 3>: n77: -1.45 dBi <Ant. 4>: n7: -0.41 dBi n38: -0.44 dBi n41: -0.44 dBi <Ant. 5>: n77: -1.27 dBi <Ant. 7>: n77: -0.44 dBi
Type of Modulation	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. 4 and n77 for Ant. 7.
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 support SA (n7/n38/n41/n77) mode and NSA(n7/n41/n77) mode. According to the maximum power between SA and NSA mode, SA covers NSA mode for (n7/n41/n77).
4. 5G NR n41 supports HPUE mode.
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	0.2203	4M46G7D	0.1750	4M48W7D
10	2505.0 ~ 2565.0	0.2193	9M28G7D	0.1750	9M29W7D
15	2507.5 ~ 2562.5	0.2128	14M1G7D	0.1758	14M1W7D
20	2510.0 ~ 2560.0	0.2208	18M9G7D	0.1854	18M9W7D



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)
20	2580.0 ~ 2610.0	0.1914	18M3G7D	0.1514	18M2W7D
30	2585.0 ~ 2605.0	0.1901	27M8G7D	0.1514	27M9W7D
40	2590.0 ~ 2600.0	0.1919	37M8G7D	0.1549	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)
20	2506.02 ~ 2679.99	0.3013	18M3G7D	0.2399	18M2W7D
30	2511.00 ~ 2674.98	0.3350	27M8G7D	0.2355	27M9W7D
40	2516.01 ~ 2670.00	0.2911	37M8G7D	0.2371	38M0W7D
50	2521.02 ~ 2664.99	0.2877	47M4G7D	0.2355	47M6W7D
60	2526.00 ~ 2659.98	0.2831	57M7G7D	0.2275	57M8W7D
70	2531.01 ~ 2655.00	0.2844	67M6G7D	0.2296	67M5W7D
80	2536.02 ~ 2649.99	0.2864	77M5G7D	0.2360	77M8W7D
90	2541.00 ~ 2644.98	0.3155	87M4G7D	0.2371	87M7W7D
100	2546.01 ~ 2640.00	0.3357	97M6G7D	0.2673	97M6W7D

5G NR n77		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3710.01 ~ 3969.99	0.2009	18M1G7D	0.1626	18M2W7D
30	3715.02 ~ 3964.98	0.2000	27M9G7D	0.1589	27M9W7D
40	3720.00 ~ 3960.00	0.1991	37M9G7D	0.1585	37M9W7D
60	3730.02 ~ 3949.98	0.1963	57M8G7D	0.1574	57M8W7D
80	3740.01 ~ 3939.99	0.2032	77M4G7D	0.1614	77M6W7D
100	3750.00 ~ 3930.00	0.2042	97M3G7D	0.1648	97M6W7D

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.
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. (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 for Adapter mode and Earphone Mode. The worst cases (Y plane-Adapter mode) 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.

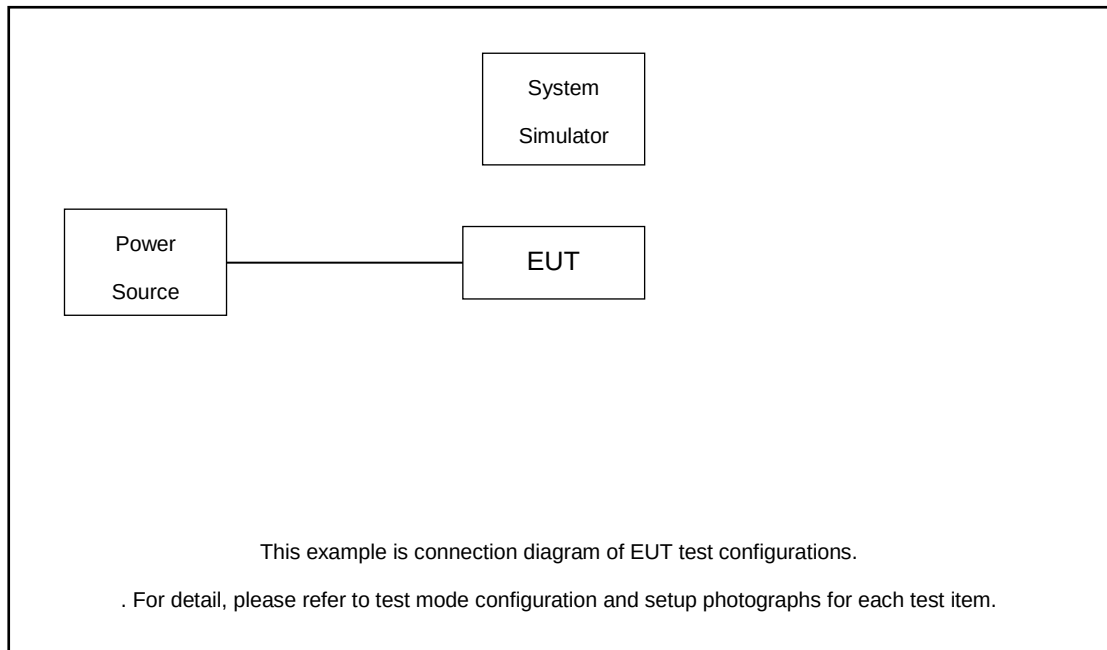
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane

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	16QAM	64QAM	256QAM	1	Full	L	M	H	
Max. Output Power	n7	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	
	n41	-	-	-	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
	n77	-	-	-	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		
	n41	-	-	-	v	-									v	v					v		v		
	n77	-	-	-	v	-			-		-		-		v	v					v		v		
26dB and 99% Bandwidth	n7	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		
	n77	-	-	-	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	
	n41	-	-	-	v	-				v				v	v	v				v	v	v		v	
	n77	-	-	-	v	-			-	v	-		-	v	v	v				v	v	v		v	
Conducted Spurious Emission	n7	v	v		v	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v	
	n41	-	-	-	v	-				v				v	v	v				v		v	v	v	
	n77	-	-	-	v	-			-	v	-		-	v	v	v				v		v	v	v	
Frequency	n7				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	16QAM	64QAM	256QAM	1	Full	L	M	H
Stability	n41	-	-	-	v	-										v					v		v	
	n77	-	-	-	v	-			-		-		-			v					v		v	
E.I.R.P	n7	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
	n41	-	-	-	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n77	-	-	-	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		
	n77	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 = 3.89V ; Low Voltage =3.50V. ; High Voltage =4.50V																							

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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 8.6 dB.

Example :

Offset(dB) = RF cable loss(dB). = 8.6 (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
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
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610

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
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
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

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99

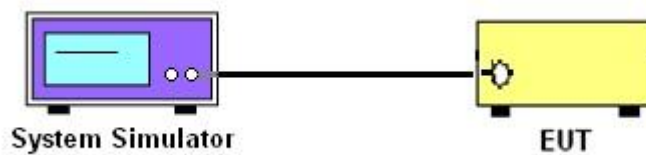
3 Conducted Test Items

3.1 Measuring Instruments

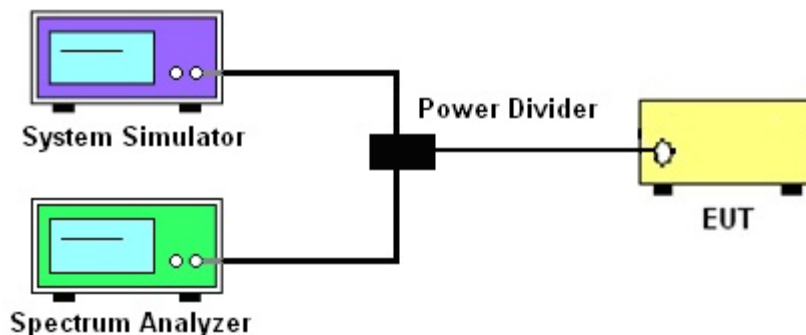
See list of measuring instruments of this test report.

3.2 Test Setup

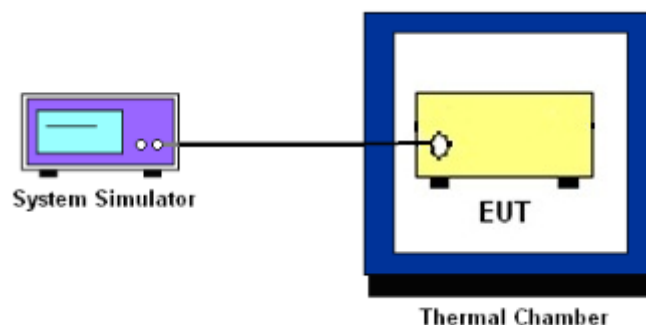
3.2.1 Conducted Output Power



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.

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

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.

27.53(l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for 5G NR n41/n77. Duty factor $= 10 \log(1/x)$, where x is the measured duty cycle
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

Example:

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

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

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

10. For 5G NR n7/n38/n41, the other 40 dB, and 55 dB have additionally applied same calculation above.
11. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

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. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For 5G NR n7/n38/n41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

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.

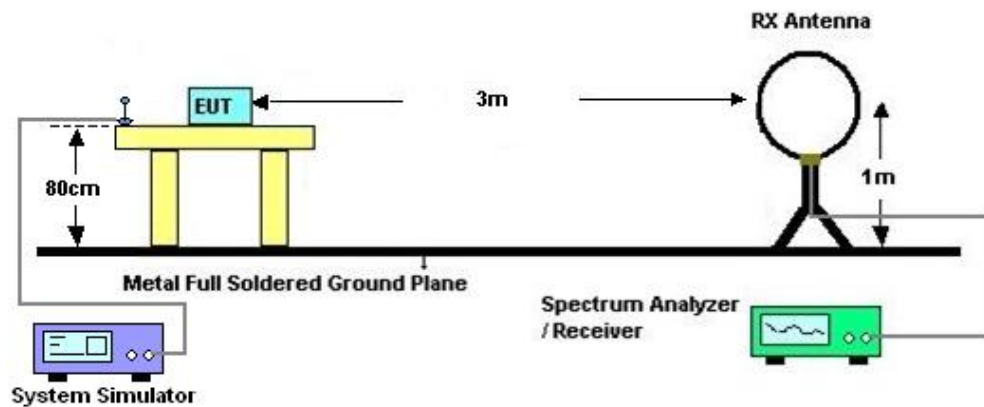
4 Radiated Test Items

4.1 Measuring Instruments

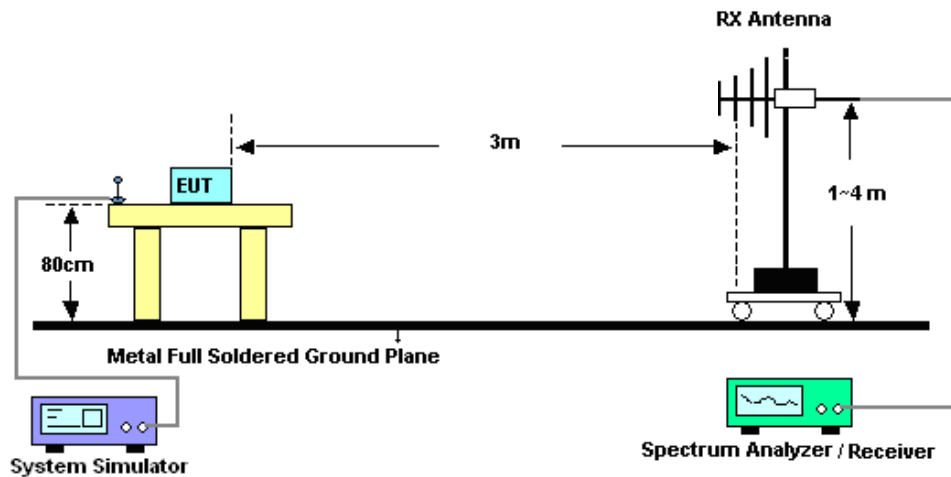
See list of measuring instruments of this test report.

4.2 Test Setup

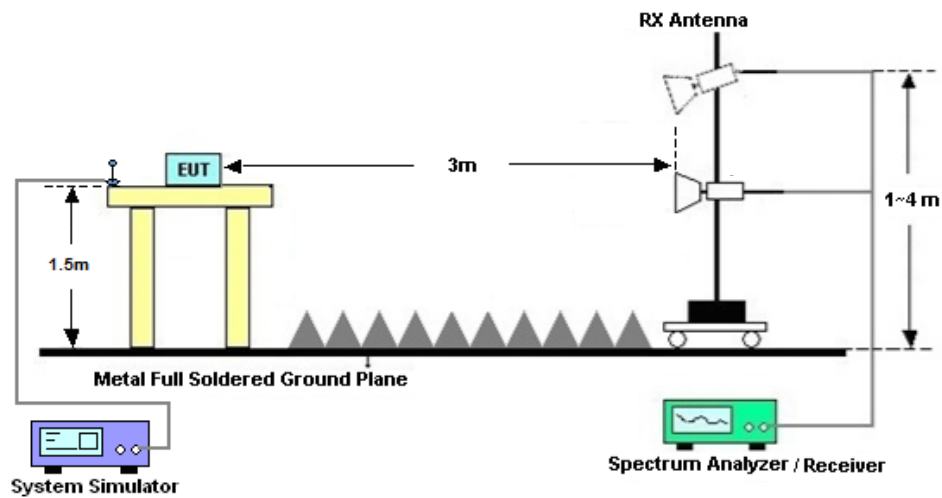
4.2.1 For radiated test below 30MHz



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	Dec. 31, 2024~ Jan. 07, 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	Dec. 31, 2024~ Jan. 07, 2025	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Dec. 31, 2024~ Jan. 07, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Jan. 08, 2025~ Jan. 09, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Jan. 08, 2025~ Jan. 09, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Jan. 08, 2025~ Jan. 09, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Jan. 08, 2025~ Jan. 09, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jan. 08, 2025~ Jan. 09, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 09, 2024	Jan. 08, 2025~ Jan. 09, 2025	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Jan. 08, 2025~ Jan. 09, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Jan. 08, 2025~ Jan. 09, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Jan. 08, 2025~ Jan. 09, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jan. 08, 2025~ Jan. 09, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jan. 08, 2025~ Jan. 09, 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 Zhen	Temperature :	22~23℃
		Relative Humidity :	40~42%



Software Version: 23.06.1602

FR1 N7

Transmitter Conducted Output Power And EIRP, (G_T - L_c)=-0.41dB

NR Band	SCS	Bandwidth	Arfcn	Freq(M Hz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	12@6	23.71	23.3	0.2138
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@1	23.84	23.43	0.2203
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@23	23.57	23.16	0.2070
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	12@6	22.68	22.27	0.1687
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	22.84	22.43	0.1750
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@23	22.83	22.42	0.1746
7	15	5	507000	2535	DFT-s-OFDM QPSK	12@6	22.9	22.49	0.1774
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@1	23	22.59	0.1816
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@23	22.82	22.41	0.1742
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	12@6	21.85	21.44	0.1393
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.03	21.62	0.1452
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@23	21.98	21.57	0.1435
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	12@6	23.65	23.24	0.2109
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@1	23.8	23.39	0.2183
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@23	23.43	23.02	0.2004
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	12@6	22.61	22.2	0.1660
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	22.78	22.37	0.1726
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@23	22.67	22.26	0.1683
7	15	10	501000	2505	DFT-s-OFDM QPSK	25@12	23.65	23.24	0.2109
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@1	23.82	23.41	0.2193
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@50	23.5	23.09	0.2037
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	25@12	22.67	22.26	0.1683
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@1	22.84	22.43	0.1750
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@50	22.72	22.31	0.1702
7	15	10	507000	2535	DFT-s-OFDM QPSK	25@12	22.86	22.45	0.1758
7	15	10	507000	2535	DFT-s-OFDM	1@1	22.78	22.37	0.1726



					QPSK				
7	15	10	507000	2535	DFT-s-OFDM QPSK	1@50	22.87	22.46	0.1762
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	25@12	21.84	21.43	0.1390
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.01	21.6	0.1445
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@50	22.02	21.61	0.1449
7	15	10	513000	2565	DFT-s-OFDM QPSK	25@12	23.61	23.2	0.2089
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@1	23.5	23.09	0.2037
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@50	23.49	23.08	0.2032
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	25@12	22.63	22.22	0.1667
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@1	22.74	22.33	0.1710
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@50	22.66	22.25	0.1679
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	36@18	23.65	23.24	0.2109
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@1	23.66	23.25	0.2113
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@77	23.4	22.99	0.1991
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	36@18	22.68	22.27	0.1687
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	22.86	22.45	0.1758
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@77	22.63	22.22	0.1667
7	15	15	507000	2535	DFT-s-OFDM QPSK	36@18	22.89	22.48	0.1770
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@1	23.17	22.76	0.1888
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@77	22.99	22.58	0.1811
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	36@18	21.85	21.44	0.1393
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.08	21.67	0.1469
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@77	22.16	21.75	0.1496
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	36@18	23.61	23.2	0.2089
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@1	23.69	23.28	0.2128
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@77	23.45	23.04	0.2014
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	36@18	22.61	22.2	0.1660
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	22.65	22.24	0.1675
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@77	22.72	22.31	0.1702
7	15	20	502000	2510	DFT-s-OFDM PI/2 BPSK	50@25	23.74	23.33	0.2153
7	15	20	502000	2510	DFT-s-OFDM PI/2 BPSK	1@1	23.85	23.44	0.2208



7	15	20	502000	2510	DFT-s-OFDM PI/2 BPSK	1@104	23.38	22.97	0.1982
7	15	20	502000	2510	DFT-s-OFDM QPSK	50@25	23.78	23.37	0.2173
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@1	23.82	23.41	0.2193
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@104	23.3	22.89	0.1945
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	50@25	22.77	22.36	0.1722
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@1	23.09	22.68	0.1854
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@104	22.55	22.14	0.1637
7	15	20	502000	2510	DFT-s-OFDM 64 QAM	50@25	21.26	20.85	0.1216
7	15	20	502000	2510	DFT-s-OFDM 64 QAM	1@1	21.18	20.77	0.1194
7	15	20	502000	2510	DFT-s-OFDM 64 QAM	1@104	20.63	20.22	0.1052
7	15	20	502000	2510	DFT-s-OFDM 256 QAM	50@25	19.29	18.88	0.0773
7	15	20	502000	2510	DFT-s-OFDM 256 QAM	1@1	19.36	18.95	0.0785
7	15	20	502000	2510	DFT-s-OFDM 256 QAM	1@104	18.82	18.41	0.0693
7	15	20	502000	2510	CP-OFDM QPSK	53@26	22.23	21.82	0.1521
7	15	20	502000	2510	CP-OFDM QPSK	1@1	22.48	22.07	0.1611
7	15	20	502000	2510	CP-OFDM QPSK	1@104	22.16	21.75	0.1496
7	15	20	507000	2535	DFT-s-OFDM PI/2 BPSK	50@25	23.03	22.62	0.1828
7	15	20	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.12	22.71	0.1866
7	15	20	507000	2535	DFT-s-OFDM PI/2 BPSK	1@104	23.22	22.81	0.1910
7	15	20	507000	2535	DFT-s-OFDM QPSK	50@25	23.03	22.62	0.1828
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@1	23.03	22.62	0.1828
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@104	23.25	22.84	0.1923
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	50@25	22.06	21.65	0.1462
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.27	21.86	0.1535
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@104	22.38	21.97	0.1574
7	15	20	507000	2535	DFT-s-OFDM 64 QAM	50@25	20.54	20.13	0.1030
7	15	20	507000	2535	DFT-s-OFDM 64 QAM	1@1	20.46	20.05	0.1012
7	15	20	507000	2535	DFT-s-OFDM 64 QAM	1@104	20.47	20.06	0.1014
7	15	20	507000	2535	DFT-s-OFDM 256 QAM	50@25	18.53	18.12	0.0649
7	15	20	507000	2535	DFT-s-OFDM 256 QAM	1@1	18.65	18.24	0.0667
7	15	20	507000	2535	DFT-s-OFDM 256 QAM	1@104	18.68	18.27	0.0671
7	15	20	507000	2535	CP-OFDM QPSK	53@26	21.55	21.14	0.1300



7	15	20	507000	2535	CP-OFDM QPSK	1@1	21.77	21.36	0.1368
7	15	20	507000	2535	CP-OFDM QPSK	1@104	21.92	21.51	0.1416
7	15	20	512000	2560	DFT-s-OFDM PI/2 BPSK	50@25	23.73	23.32	0.2148
7	15	20	512000	2560	DFT-s-OFDM PI/2 BPSK	1@1	23.46	23.05	0.2018
7	15	20	512000	2560	DFT-s-OFDM PI/2 BPSK	1@104	23.71	23.3	0.2138
7	15	20	512000	2560	DFT-s-OFDM QPSK	50@25	23.76	23.35	0.2163
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@1	23.52	23.11	0.2046
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@104	23.7	23.29	0.2133
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	50@25	22.77	22.36	0.1722
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@1	22.68	22.27	0.1687
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@104	22.89	22.48	0.1770
7	15	20	512000	2560	DFT-s-OFDM 64 QAM	50@25	21.25	20.84	0.1213
7	15	20	512000	2560	DFT-s-OFDM 64 QAM	1@1	20.82	20.41	0.1099
7	15	20	512000	2560	DFT-s-OFDM 64 QAM	1@104	21	20.59	0.1146
7	15	20	512000	2560	DFT-s-OFDM 256 QAM	50@25	19.3	18.89	0.0774
7	15	20	512000	2560	DFT-s-OFDM 256 QAM	1@1	19	18.59	0.0723
7	15	20	512000	2560	DFT-s-OFDM 256 QAM	1@104	19.19	18.78	0.0755
7	15	20	512000	2560	CP-OFDM QPSK	53@26	22.22	21.81	0.1517
7	15	20	512000	2560	CP-OFDM QPSK	1@1	22.25	21.84	0.1528
7	15	20	512000	2560	CP-OFDM QPSK	1@104	22.49	22.08	0.1614

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	15.3	PASS	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	18.4	PASS	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	15.1	PASS	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	12	PASS	-30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-10.6	PASS	-20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	17.5	PASS	-10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	11.6	PASS	0°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-11.3	PASS	10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	15.3	PASS	20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	16.2	PASS	30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-17	PASS	40°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	11.7	PASS	50°C

$|\text{MAX}(\Delta f)| = 18.4 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2500.4894816	$\geq 2500 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2568.3916184	$\leq 2570 \text{ MHz}$	

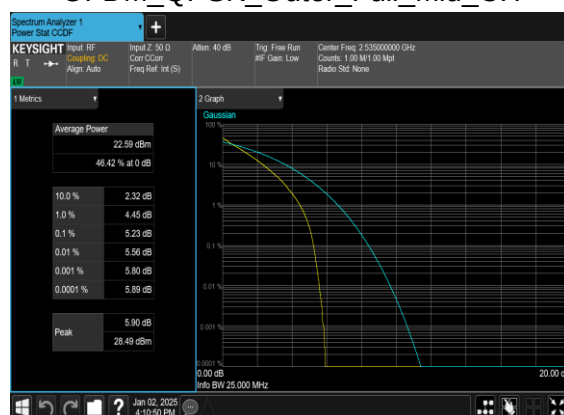
Peak to Average Ratio

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 PI/2 BPSK	100@0	4.08	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	5.23	13	PASS

N7(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



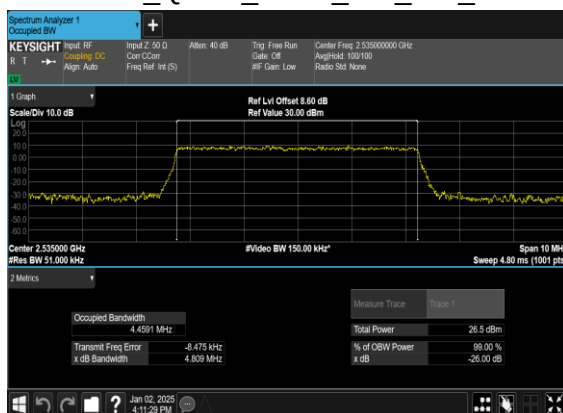


Occupied Bandwidth

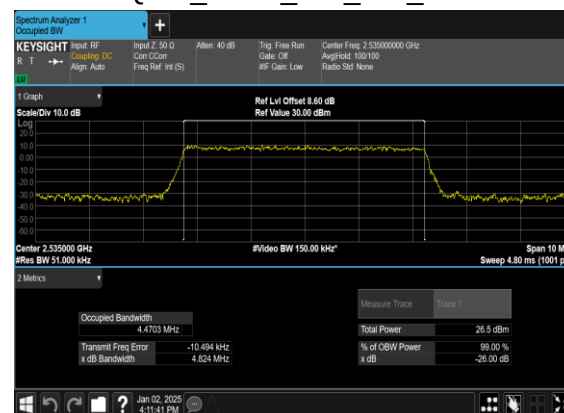
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4591	4.809
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4703	4.824
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4826	4.79
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.4703	4.806
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2778	9.712
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2408	9.702
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2862	9.691
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.2432	9.746
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.081	14.64
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.108	14.68
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.126	14.72
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.092	14.69
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.875	19.72
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.898	19.63
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.896	19.62
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.881	19.68



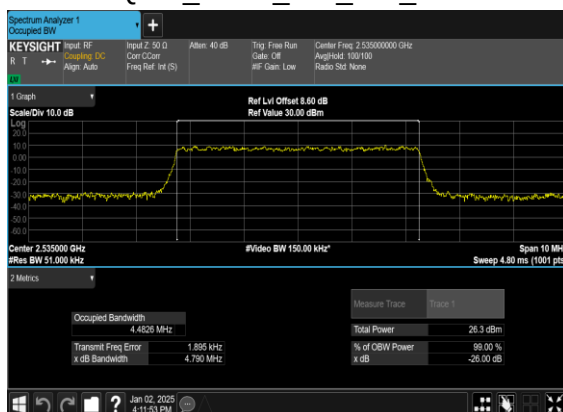
N7(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



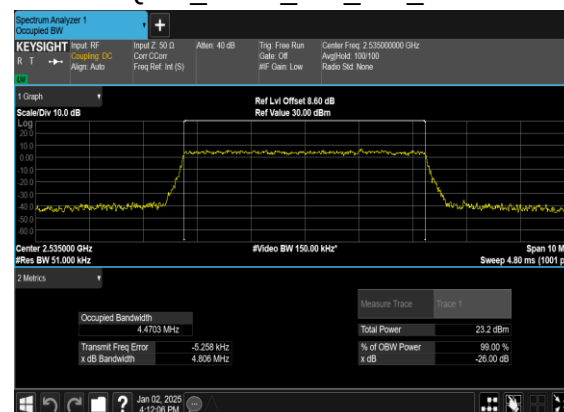
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QAM_Outer_Full_Mid_CH



N7(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

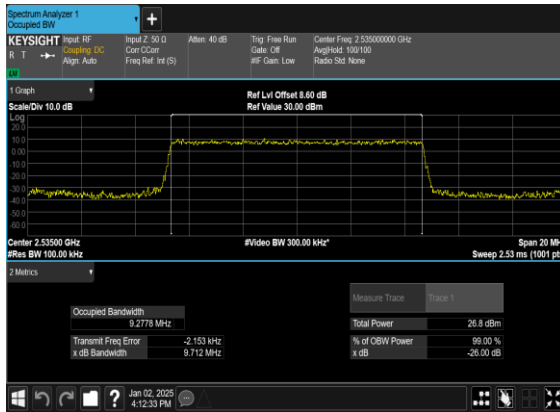


N7(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

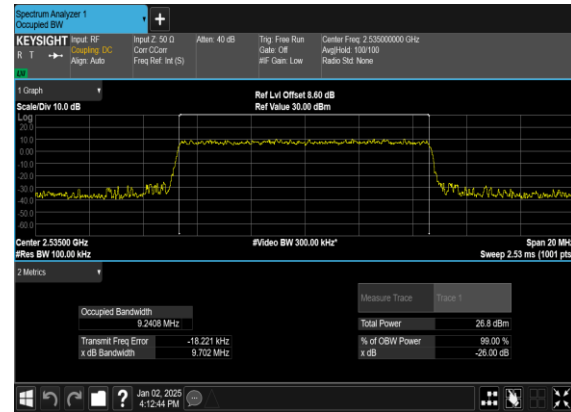




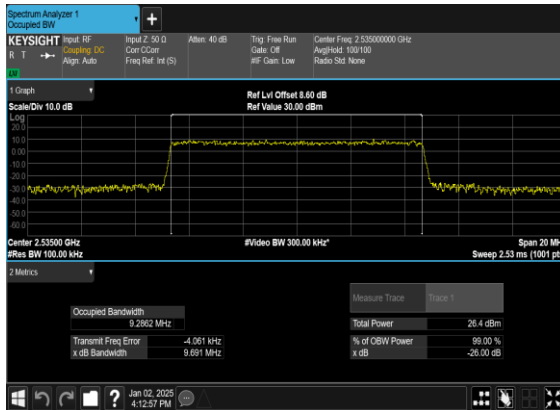
N7(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



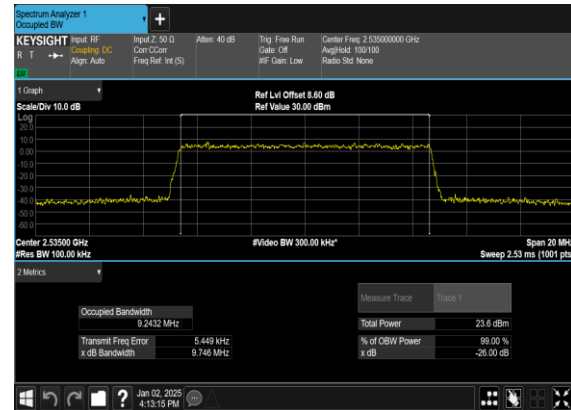
N7(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N7(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

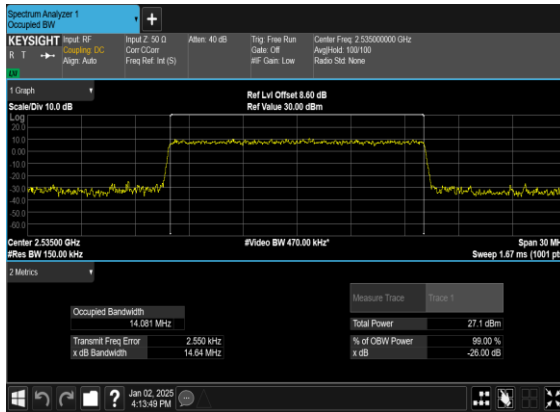


N7(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

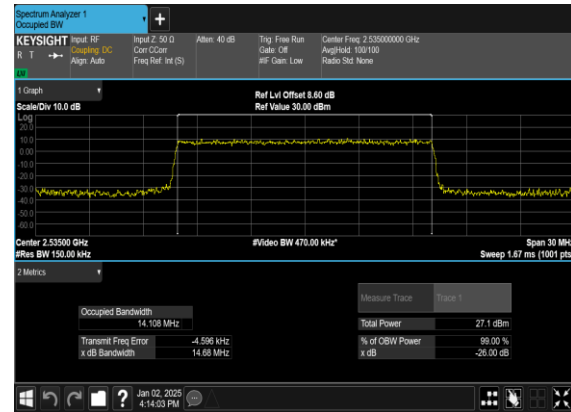




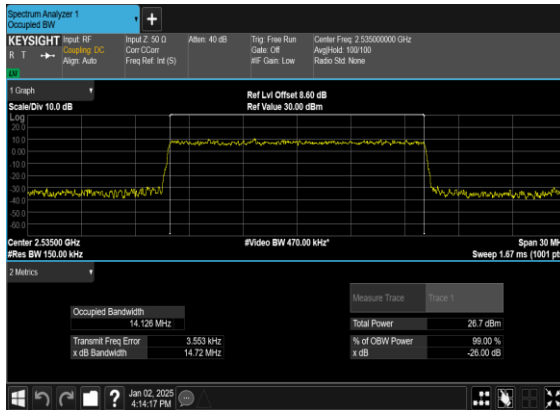
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OFDM_QPSK_Outer_Full_Mid_CH



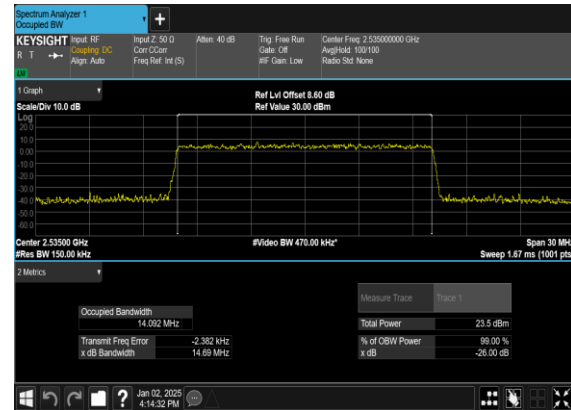
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QAM_Outer_Full_Mid_CH



N7(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

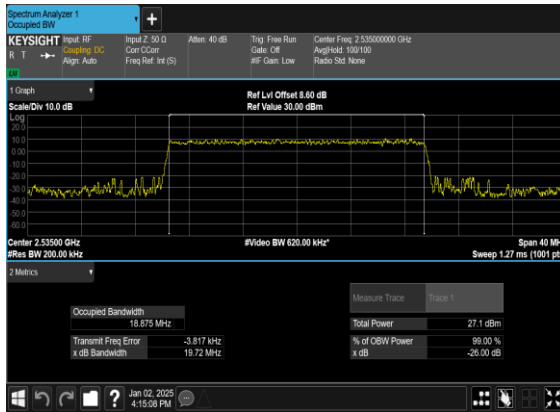


N7(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

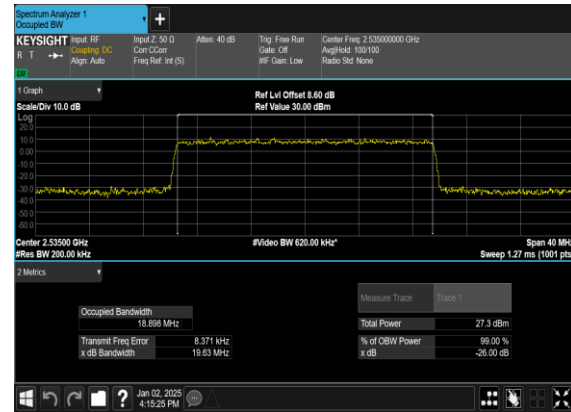




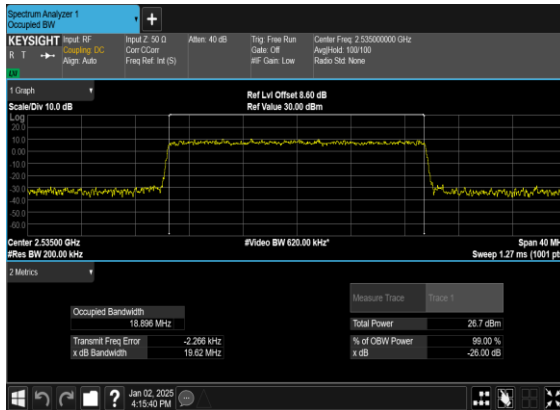
N7(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



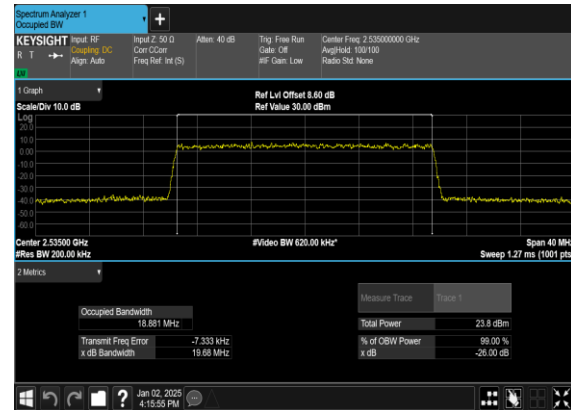
N7(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N7(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N7(20M)_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 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	10	501000	2505.0	DFT-s-OFDM BPSK	1@0	see graph	---



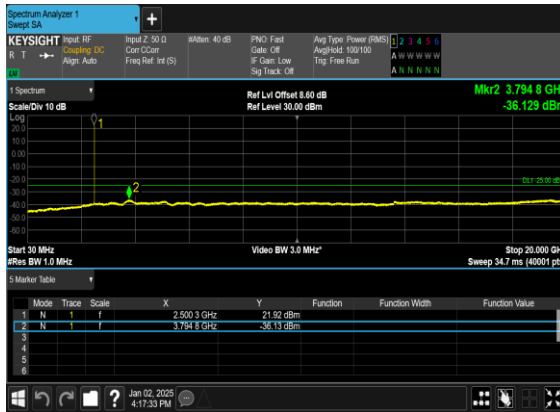
7	15	10	501000	2505.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	10	501000	2505.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	10	501000	2505.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	10	501000	2505.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	10	501000	2505.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	10	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	10	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	10	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	10	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	10	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	10	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	10	513000	2565.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	10	513000	2565.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	10	513000	2565.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	10	513000	2565.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	10	513000	2565.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	10	513000	2565.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	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



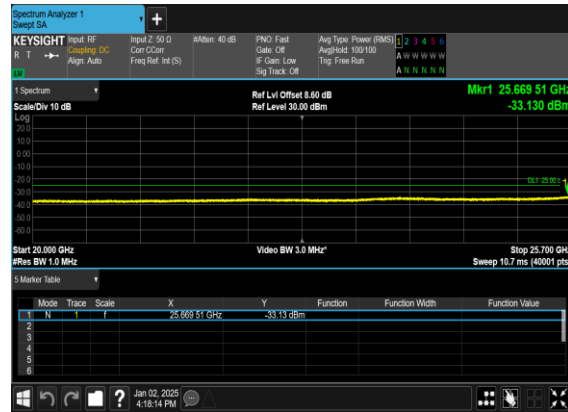
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	507000	2535.0	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 BPSK	1@0	see graph	---
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	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



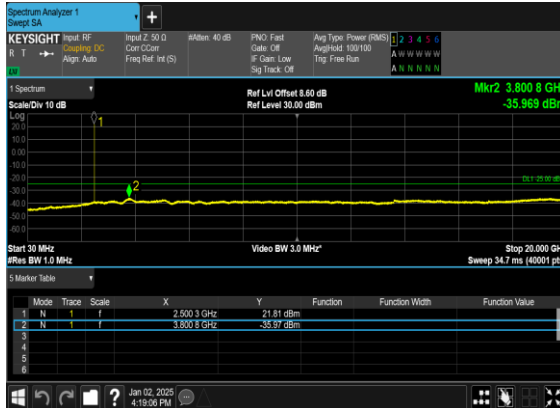
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



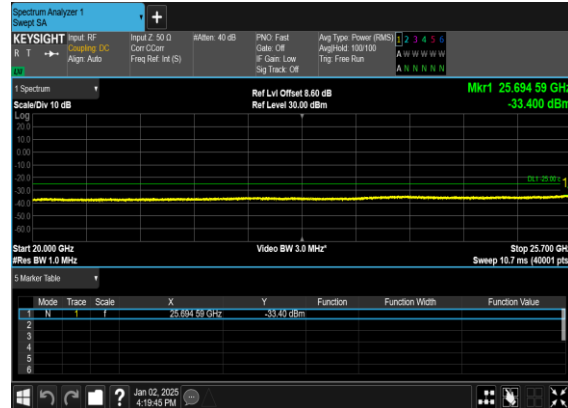
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

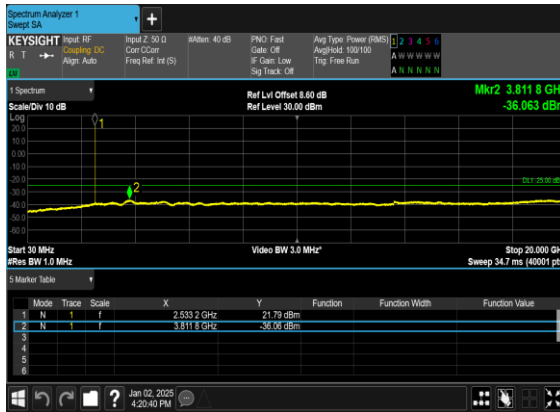


N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

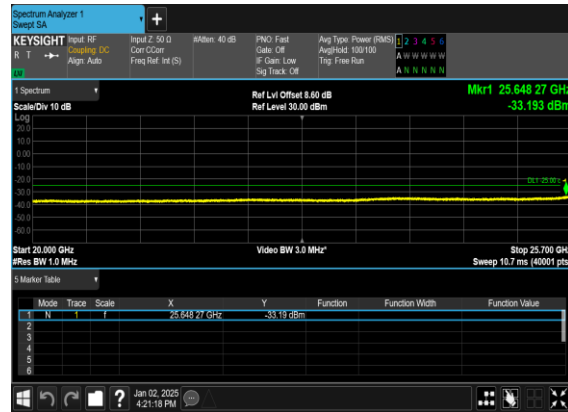




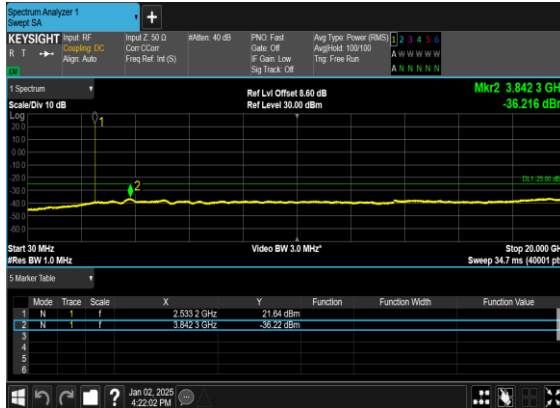
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



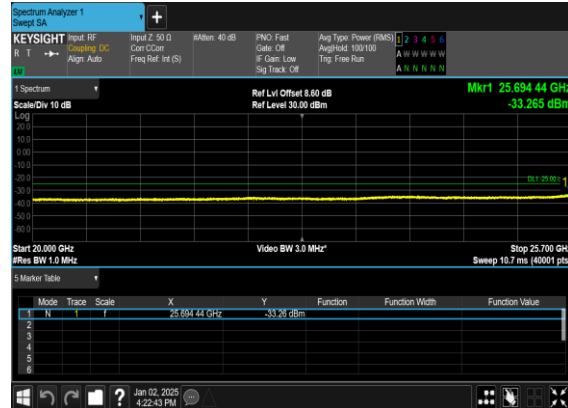
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

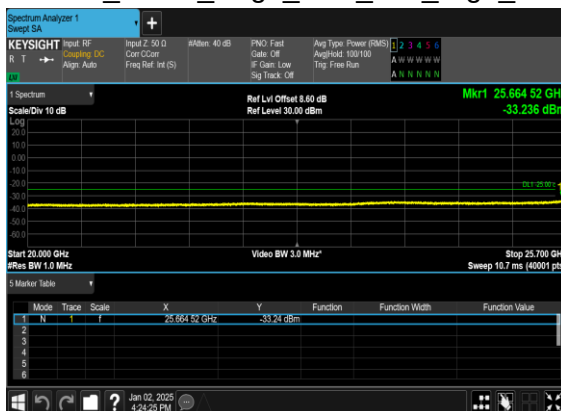




N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

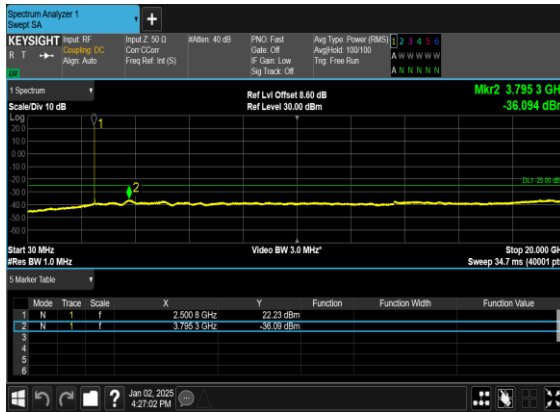


N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

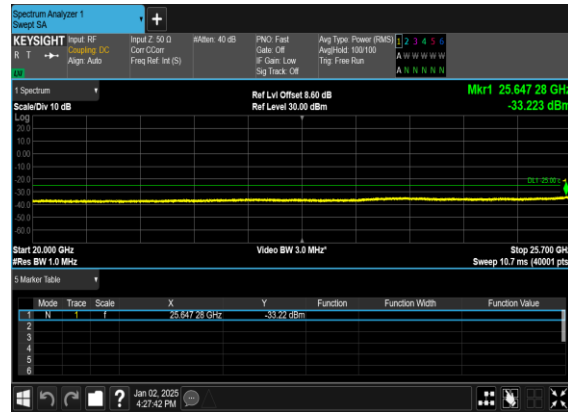




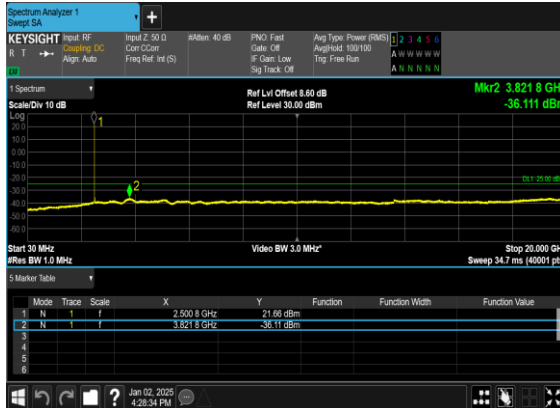
N7(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



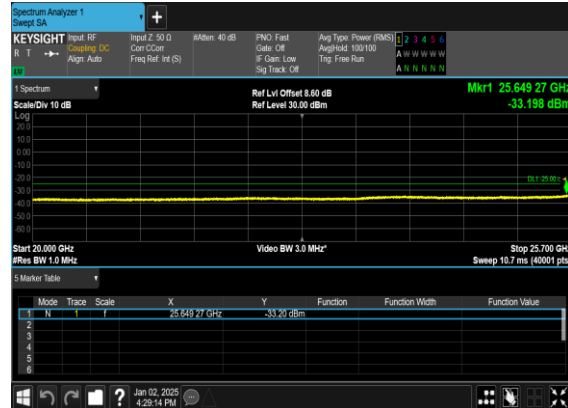
N7(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N7(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

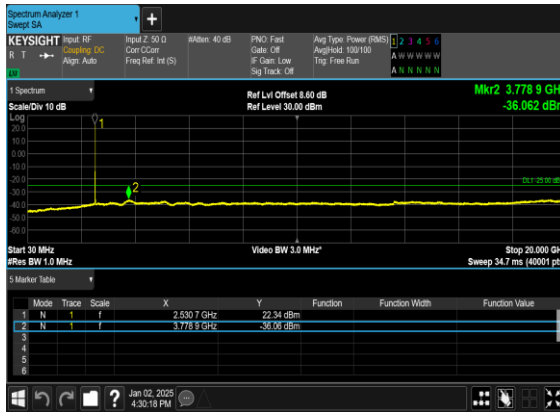


N7(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

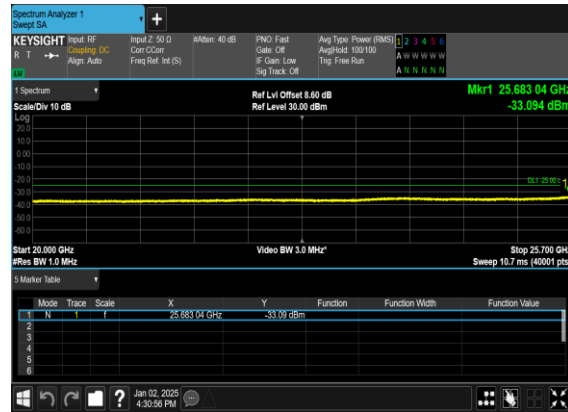




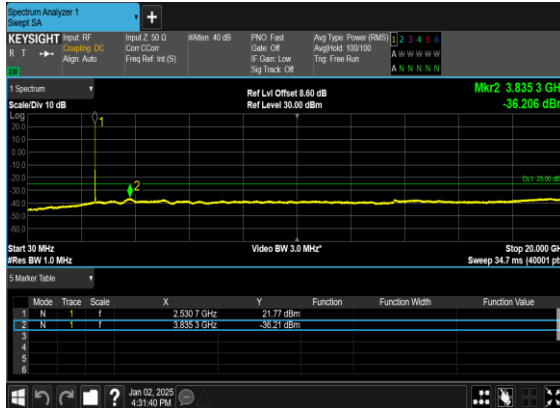
N7(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



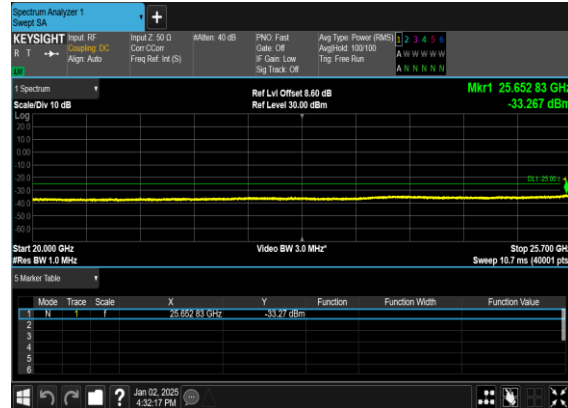
N7(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N7(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

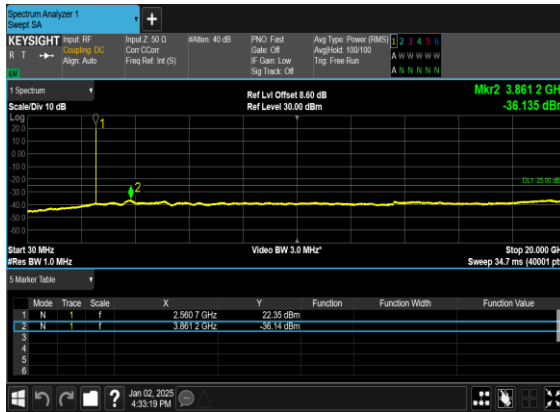


N7(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

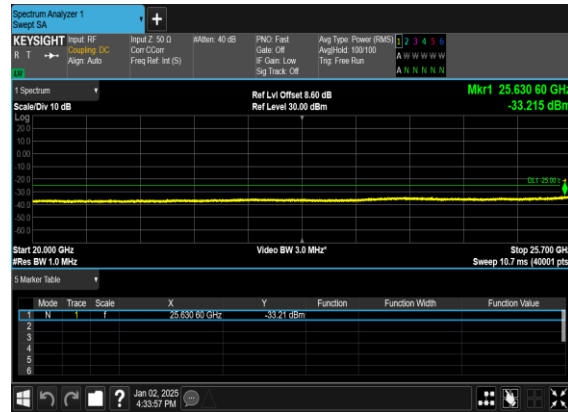




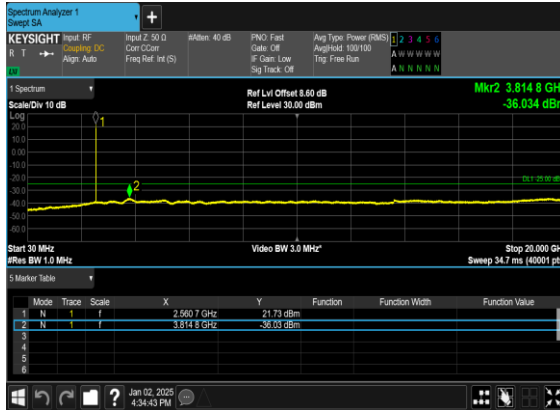
N7(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



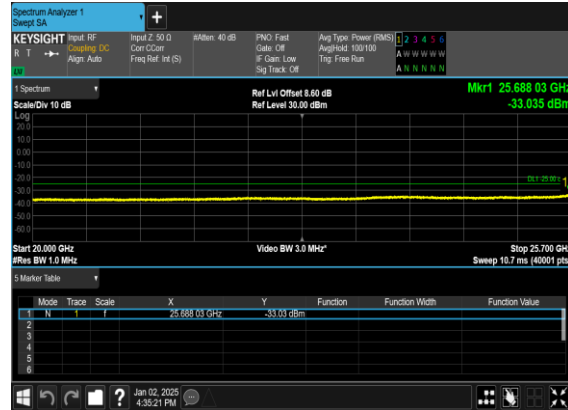
N7(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N7(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

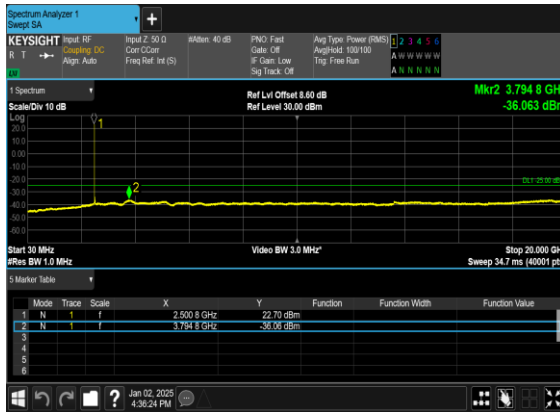


N7(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

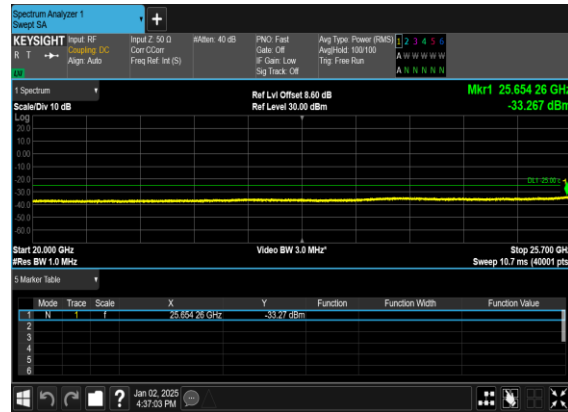




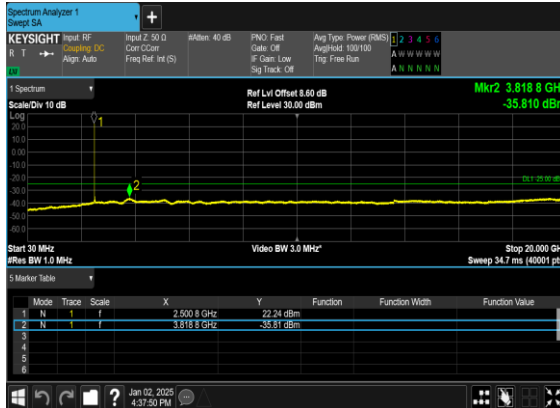
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



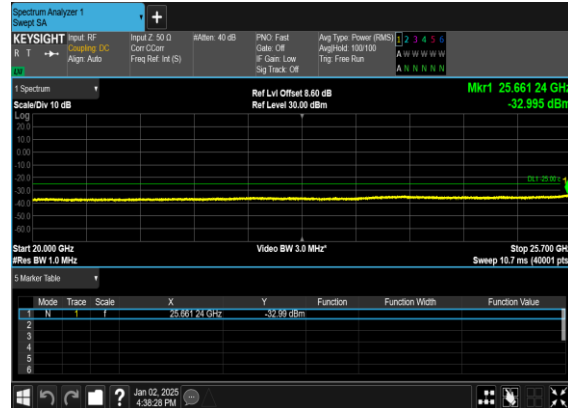
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

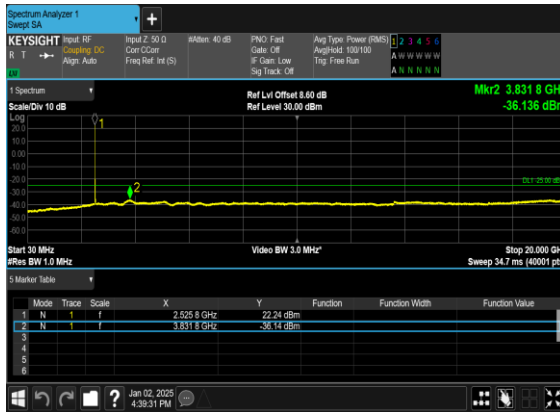


N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

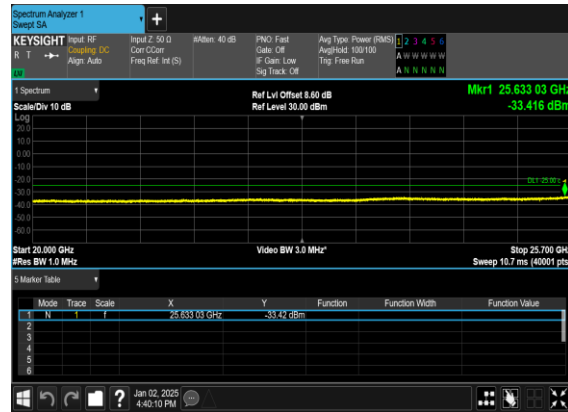




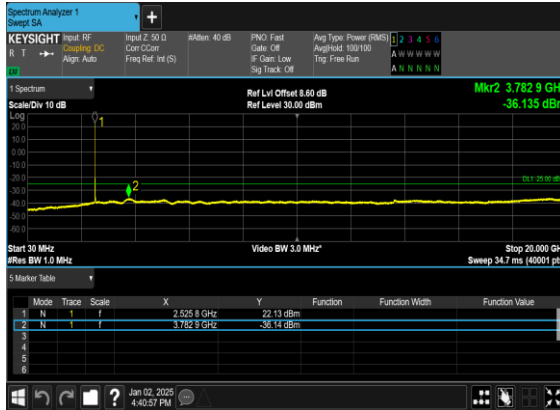
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



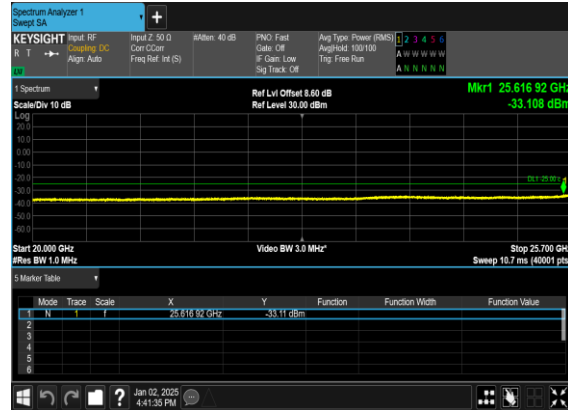
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

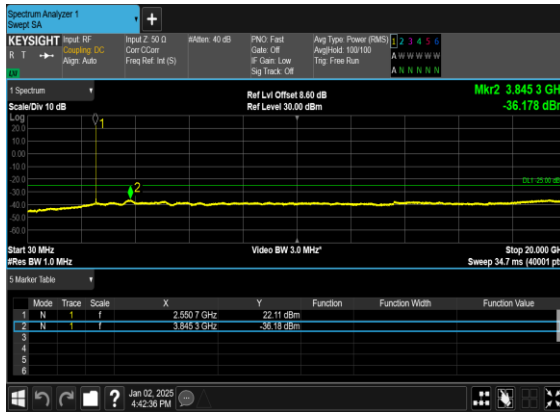


N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

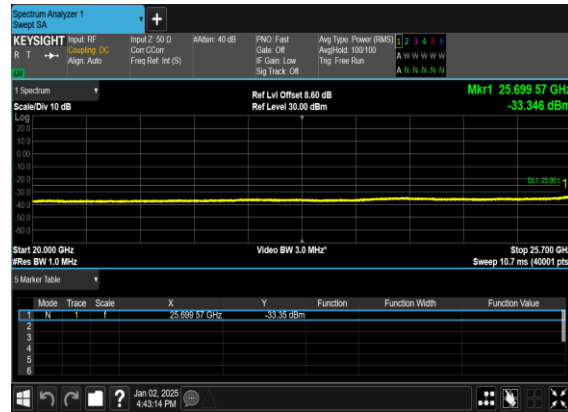




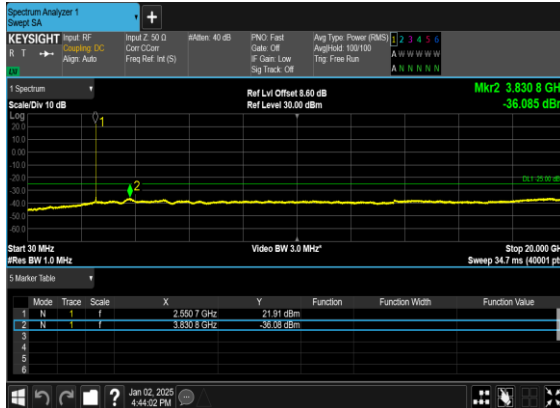
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



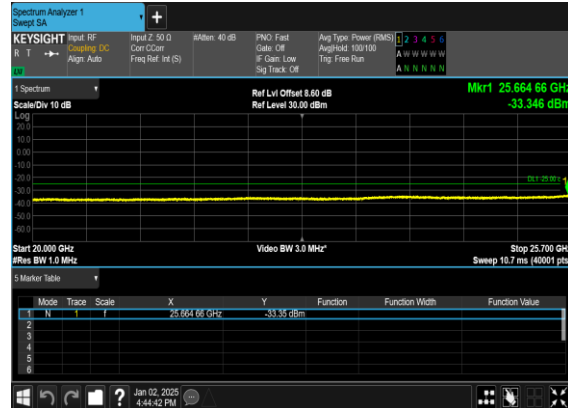
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



**Conducted Band Edge**

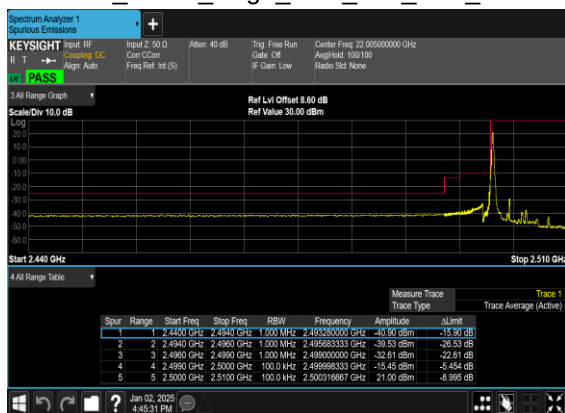
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	25@0	see graph	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	10	501000	2505.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	10	501000	2505.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	10	501000	2505.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
7	15	10	501000	2505.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
7	15	10	513000	2565.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
7	15	10	513000	2565.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
7	15	10	513000	2565.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
7	15	10	513000	2565.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@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 BPSK	100@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM	100@0	see graph	PASS



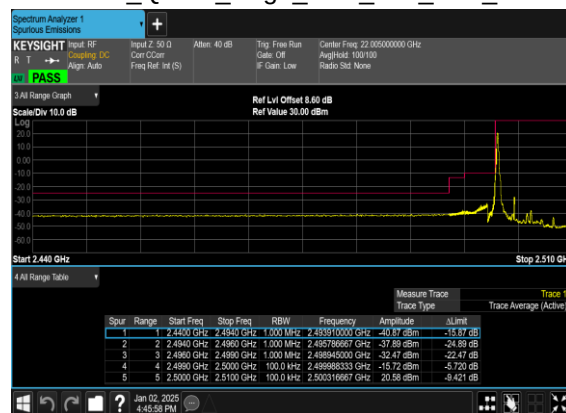
QPSK								
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	100@0	see graph	PASS



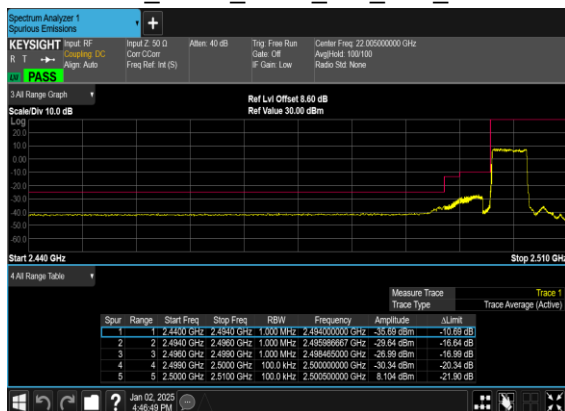
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



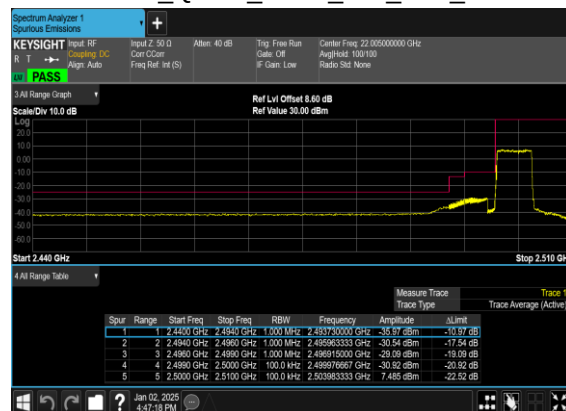
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

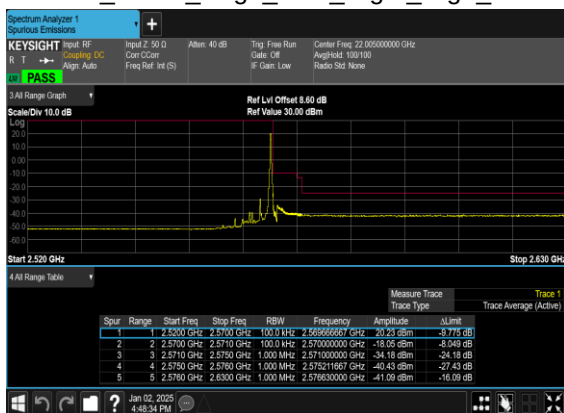


N7(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

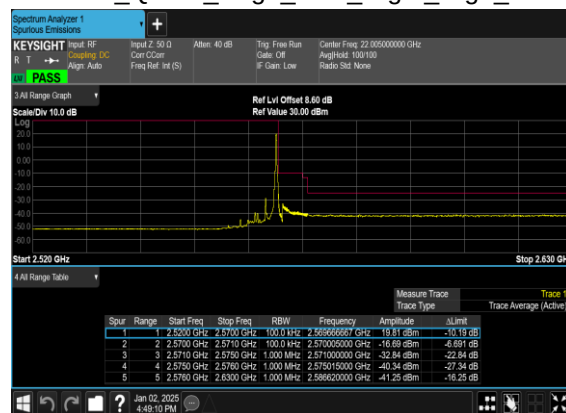




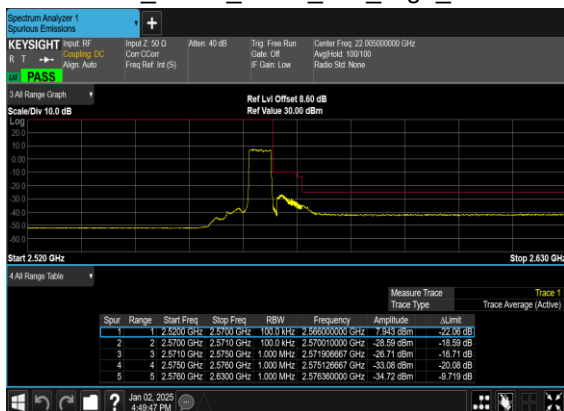
N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



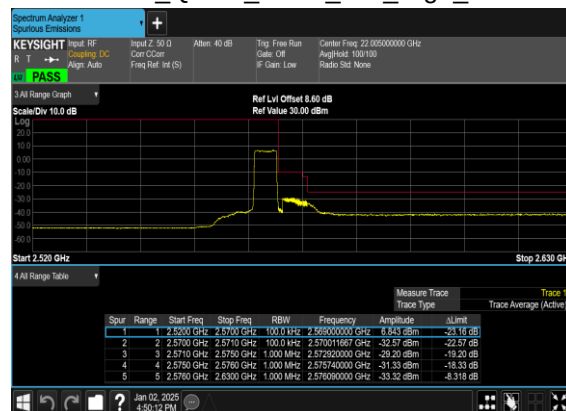
N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N7(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

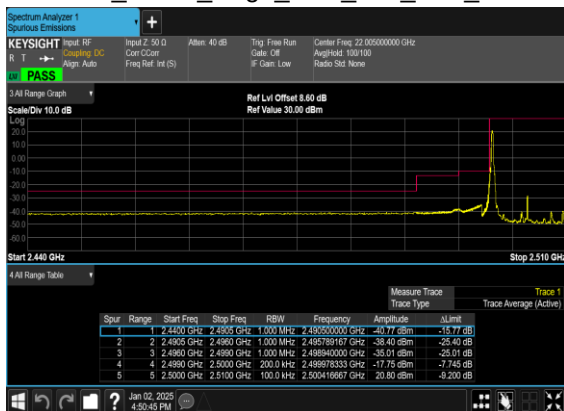


N7(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

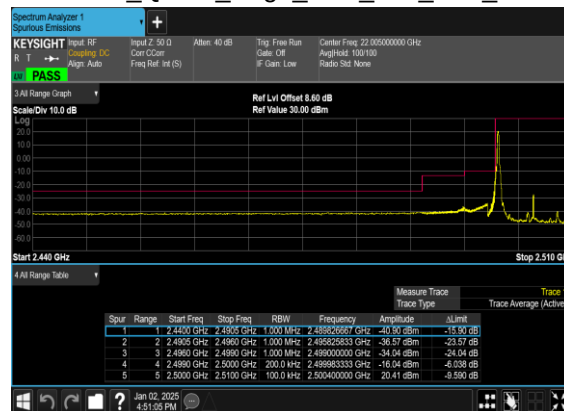




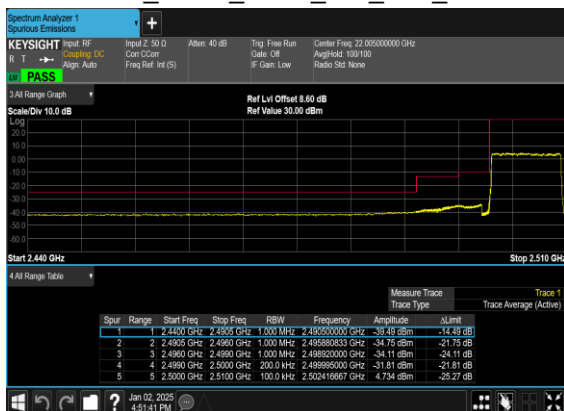
N7(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



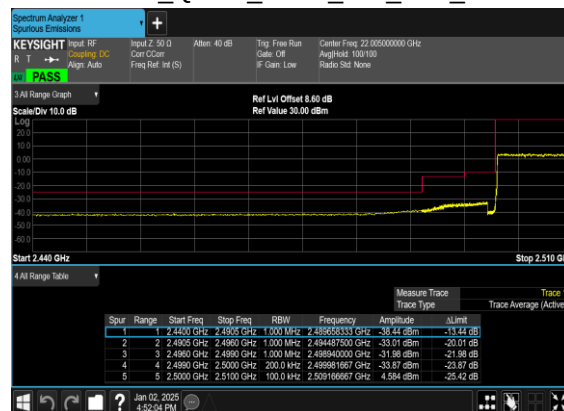
N7(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

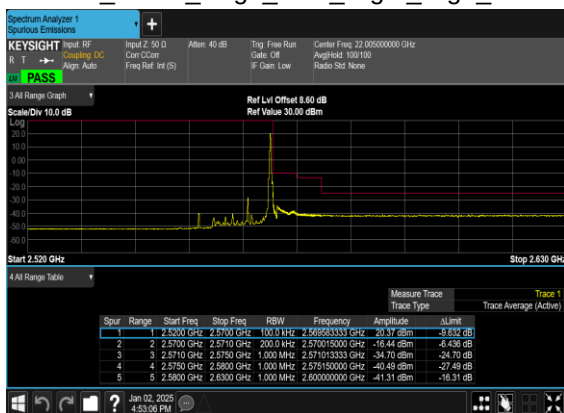


N7(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

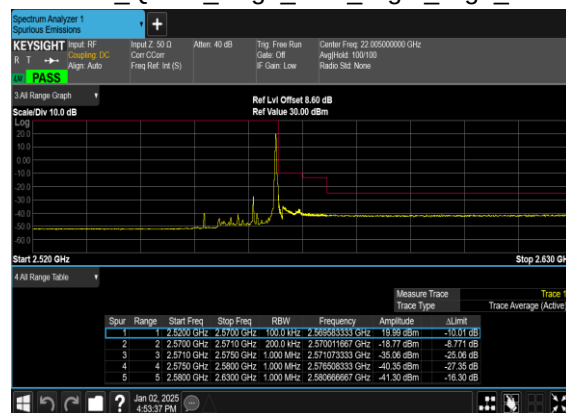




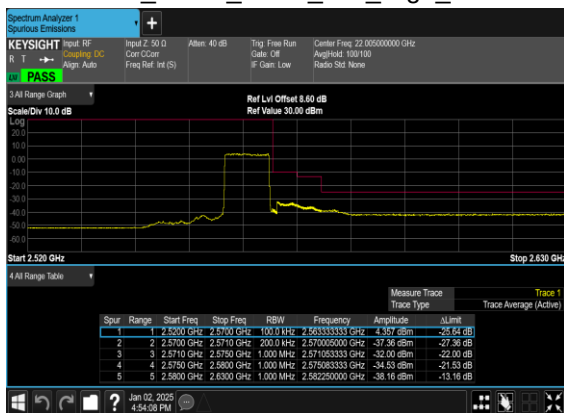
N7(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



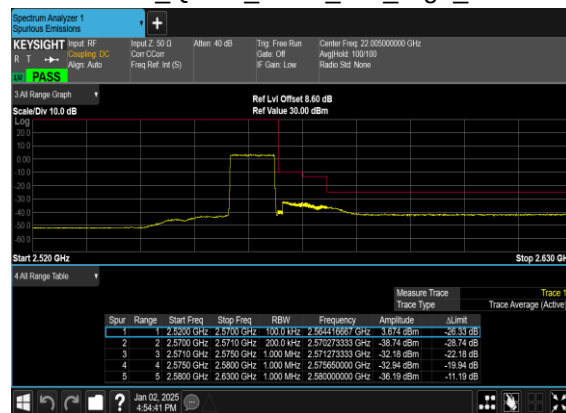
N7(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N7(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

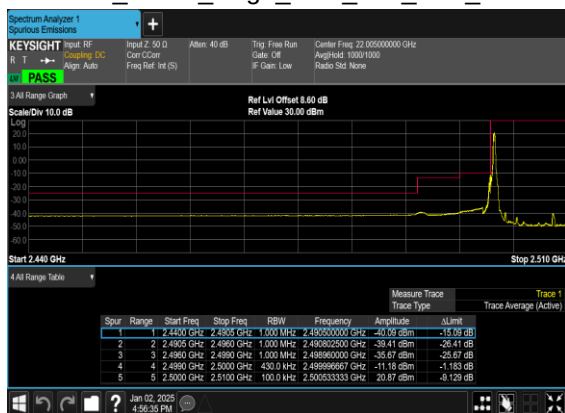


N7(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

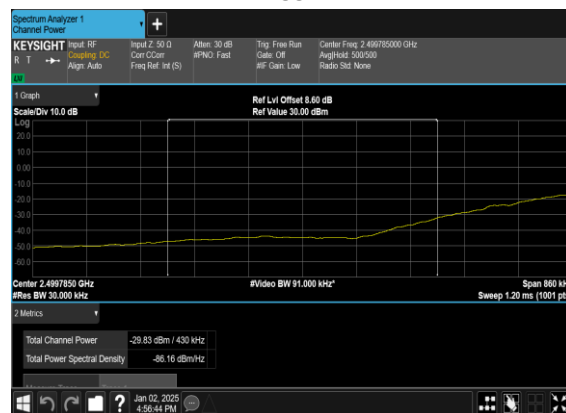




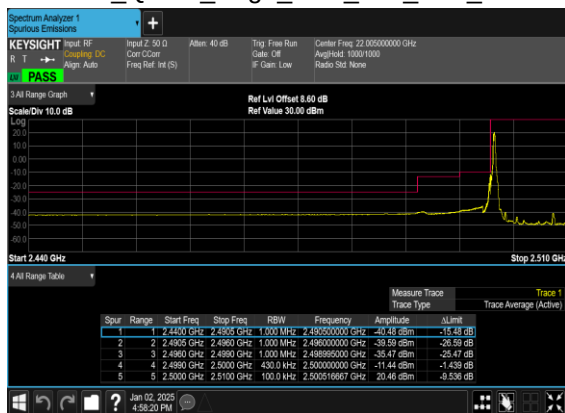
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



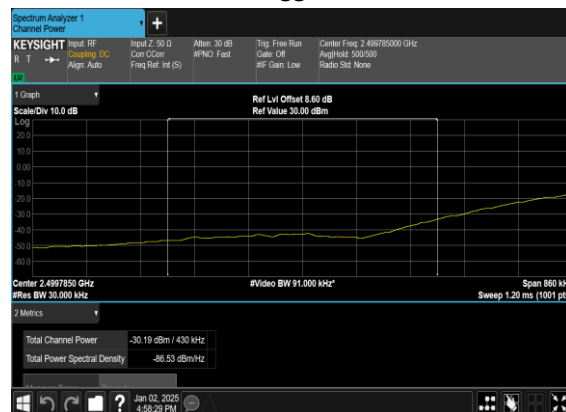
N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PA
SS



N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

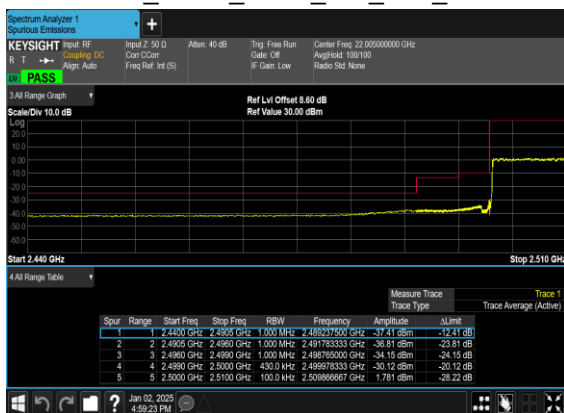


N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PA
SS

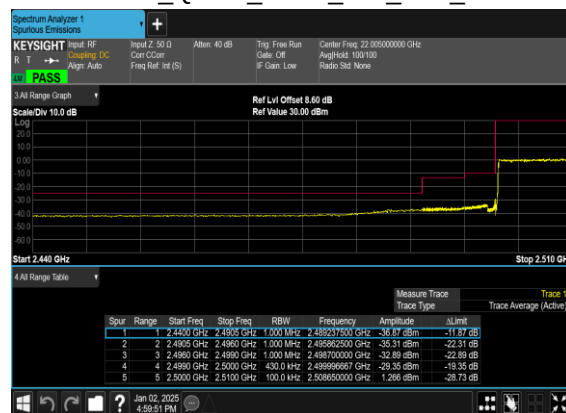




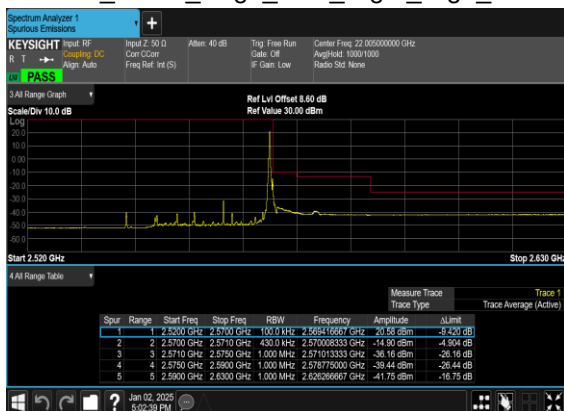
N7(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



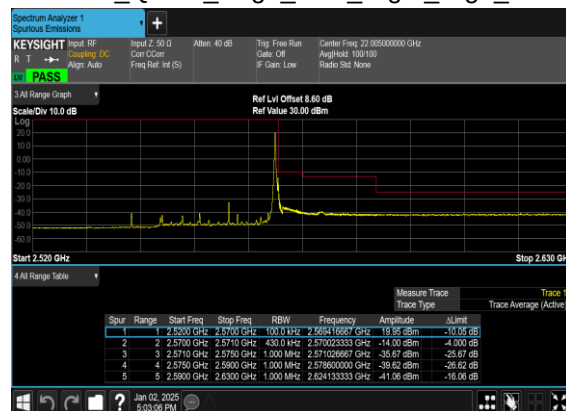
N7(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH

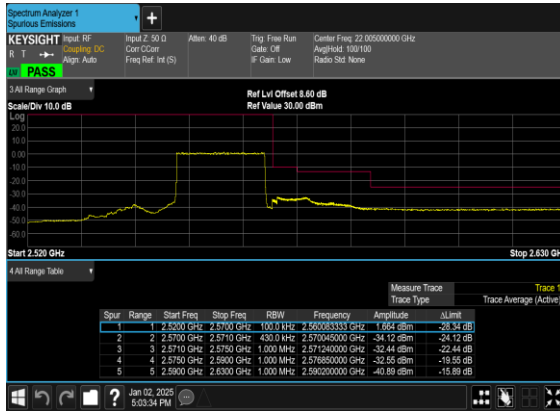


N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

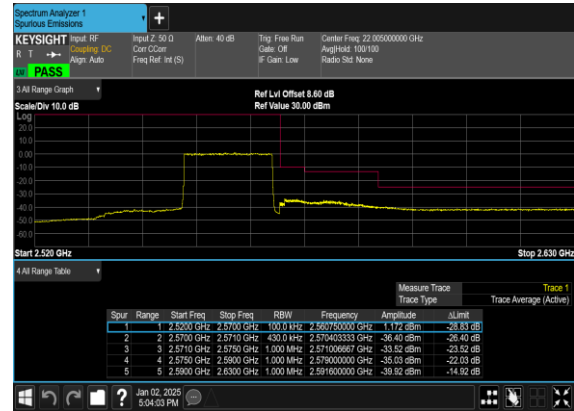




N7(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N7(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





FR1 N38

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-0.44dB

NR Band	SCS	Bandwidth	Arfcn	Freq(M Hz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
38	30	20	516000	2580	DFT-s-OFDM QPSK	25@12	23.26	22.82	0.1914
38	30	20	516000	2580	DFT-s-OFDM QPSK	1@1	23.21	22.77	0.1892
38	30	20	516000	2580	DFT-s-OFDM QPSK	1@49	23.13	22.69	0.1858
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	25@12	22.22	21.78	0.1507
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	1@1	22.24	21.8	0.1514
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	1@49	22.21	21.77	0.1503
38	30	20	519000	2595	DFT-s-OFDM QPSK	25@12	23.08	22.64	0.1837
38	30	20	519000	2595	DFT-s-OFDM QPSK	1@1	23.11	22.67	0.1849
38	30	20	519000	2595	DFT-s-OFDM QPSK	1@49	23.02	22.58	0.1811
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	25@12	22.19	21.75	0.1496
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.19	21.75	0.1496
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	1@49	22.07	21.63	0.1455
38	30	20	522000	2610	DFT-s-OFDM QPSK	25@12	23.08	22.64	0.1837
38	30	20	522000	2610	DFT-s-OFDM QPSK	1@1	22.95	22.51	0.1782
38	30	20	522000	2610	DFT-s-OFDM QPSK	1@49	23.04	22.6	0.1820
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	25@12	22.13	21.69	0.1476
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	1@1	21.98	21.54	0.1426
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	1@49	22.09	21.65	0.1462
38	30	30	517000	2585	DFT-s-OFDM QPSK	36@18	23.17	22.73	0.1875
38	30	30	517000	2585	DFT-s-OFDM QPSK	1@1	23.23	22.79	0.1901
38	30	30	517000	2585	DFT-s-OFDM QPSK	1@76	23.08	22.64	0.1837
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	36@18	22.16	21.72	0.1486
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	1@1	22.23	21.79	0.1510
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	1@76	22.12	21.68	0.1472
38	30	30	519000	2595	DFT-s-OFDM QPSK	36@18	23.08	22.64	0.1837
38	30	30	519000	2595	DFT-s-OFDM QPSK	1@1	23.21	22.77	0.1892
38	30	30	519000	2595	DFT-s-OFDM QPSK	1@76	23.04	22.6	0.1820
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	36@18	22.09	21.65	0.1462
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.24	21.8	0.1514
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	1@76	22.13	21.69	0.1476
38	30	30	521000	2605	DFT-s-OFDM QPSK	36@18	23.01	22.57	0.1807



38	30	30	521000	2605	DFT-s-OFDM QPSK	1@1	23.05	22.61	0.1824
38	30	30	521000	2605	DFT-s-OFDM QPSK	1@76	23.08	22.64	0.1837
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	36@18	21.97	21.53	0.1422
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	1@1	22.13	21.69	0.1476
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	1@76	22.13	21.69	0.1476
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	50@25	23.2	22.76	0.1888
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@1	23.27	22.83	0.1919
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@104	23.11	22.67	0.1849
38	30	40	518000	2590	DFT-s-OFDM QPSK	50@25	23.16	22.72	0.1871
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@1	23.25	22.81	0.1910
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@104	23.11	22.67	0.1849
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	50@25	22.21	21.77	0.1503
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@1	22.27	21.83	0.1524
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@104	22.18	21.74	0.1493
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	50@25	20.75	20.31	0.1074
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@1	20.85	20.41	0.1099
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@104	20.78	20.34	0.1081
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	50@25	18.77	18.33	0.0681
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@1	18.68	18.24	0.0667
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@104	18.5	18.06	0.0640
38	30	40	518000	2590	CP-OFDM QPSK	53@26	21.68	21.24	0.1330
38	30	40	518000	2590	CP-OFDM QPSK	1@1	21.89	21.45	0.1396
38	30	40	518000	2590	CP-OFDM QPSK	1@104	21.93	21.49	0.1409
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	50@25	23.19	22.75	0.1884
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	23.26	22.82	0.1914
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@104	23.19	22.75	0.1884
38	30	40	519000	2595	DFT-s-OFDM QPSK	50@25	23.21	22.77	0.1892
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@1	23.26	22.82	0.1914
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@104	23.16	22.72	0.1871
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	50@25	22.22	21.78	0.1507
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.34	21.9	0.1549
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@104	22.24	21.8	0.1514
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	50@25	20.77	20.33	0.1079
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@1	20.94	20.5	0.1122
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@104	20.9	20.46	0.1112
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	50@25	18.75	18.31	0.0678
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@1	18.65	18.21	0.0662
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@104	18.62	18.18	0.0658



38	30	40	519000	2595	CP-OFDM QPSK	53@26	21.66	21.22	0.1324
38	30	40	519000	2595	CP-OFDM QPSK	1@1	21.94	21.5	0.1413
38	30	40	519000	2595	CP-OFDM QPSK	1@104	21.99	21.55	0.1429
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	50@25	23.14	22.7	0.1862
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@1	23.24	22.8	0.1905
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@104	23.22	22.78	0.1897
38	30	40	520000	2600	DFT-s-OFDM QPSK	50@25	23.1	22.66	0.1845
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@1	23.25	22.81	0.1910
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@104	23.21	22.77	0.1892
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	50@25	22.17	21.73	0.1489
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@1	22.27	21.83	0.1524
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@104	22.26	21.82	0.1521
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	50@25	20.67	20.23	0.1054
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@1	20.9	20.46	0.1112
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@104	20.95	20.51	0.1125
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	50@25	18.68	18.24	0.0667
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@1	18.64	18.2	0.0661
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@104	18.64	18.2	0.0661
38	30	40	520000	2600	CP-OFDM QPSK	53@26	21.63	21.19	0.1315
38	30	40	520000	2600	CP-OFDM QPSK	1@1	21.59	21.15	0.1303
38	30	40	520000	2600	CP-OFDM QPSK	1@104	22.19	21.75	0.1496