FCC RF Test Report

APPLICANT	: Fibocom Wireless Inc.
EQUIPMENT	: 5G Module
BRAND NAME	: Fibocom
MODEL NAME	: SC162-NA
FCC ID	: ZMOSC162NA62
STANDARD	: 47 CFR Part 27
CLASSIFICATION	: PCS Licensed Transmitter (PCB)
TEST DATE(S)	: Jul. 08, 2026 ~ Jul. 30, 2026

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.

Fly Liang

Approved by: Fly Liang

ACCREDITED Cert #5145.01

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People's Republic of China

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG670109F	Rev. 01	Initial issue of report	Aug. 24, 2026

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(c)(10)	Effective Radiated Power (5G NR n12, n71)	ERP < 3 Watt		
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n7, n41)	EIRP < 2Watt		
3.5	NA	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(g)	Conducted Band Edge Measurement (5G NR n12, n71)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(g)	Conducted Spurious Emission (5G NR n12, n71)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41)	< 55+10log$_{10}$(P[Watts])		
3.9	§27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(g)	Radiated Spurious Emission (5G NR n12, n71)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 8.08 dB at 5088.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41)	< 55+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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

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

1 General Description

1.1 Applicant

Fibocom Wireless Inc.
1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China.

1.2 Manufacturer

Fibocom Wireless Inc.
1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Module
Brand Name	Fibocom
Model Name	SC162-NA
FCC ID	ZMOSC162NA62
IMEI Code	Conducted : 863143080000080 Radiation : 863143080000247/1096
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 n12 : 699 MHz ~ 716 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n71: 663 MHz ~ 698 MHz
Rx Frequency	55G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n71: 663 MHz ~ 698 MHz
Bandwidth	n7 : 5MHz / 10MHz / 15MHz / 20MHz n12 : 5MHz / 10MHz / 15MHz n41 : 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 100MHz n71: 5MHz / 10MHz / 15MHz / 20MHz
SCS	n41 : 30kHz, n15 / n12 / n71 : 15kHz
Antenna Gain	<Ant. 94> n7 : 2.56 dBi n12 : 1.17 dBi n41 : 2.56 dBi n71 : 1.17 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark: 5G NR n41 supports HPUE mode.

1.5 Modification of EUT

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

1.6 Maximum Conducted Power and Emission Designator

5G NR n12		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	701.5 ~ 713.5	0.1510	4M46G7D	0.1191	4M47W7D
10	704.0~ 711.0	0.1570	9M27G7D	0.1230	9M28W7D
15	706.5 ~ 708.5	0.1995	14M0G7D	0.1265	14M1W7D

5G NR n71		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	665.5 ~ 695.5	0.2118	4M47G7D	0.1766	4M47W7D
10	668.0 ~ 693.0	0.2046	9M28G7D	0.1648	9M27W7D
15	670.5 ~ 690.5	0.1991	14M1G7D	0.1581	14M1W7D
20	673.0 ~ 688.0	0.2128	18M9G7D	0.1652	18M9W7D

5G NR n7		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.2286	4M46G7D	0.1858	4M48W7D
10	2505.0 ~ 2565.0	0.2350	9M29G7D	0.1849	9M30W7D
15	2507.5 ~ 2562.5	0.2244	14M1G7D	0.1824	14M1W7D
20	2510.0 ~ 2560.0	0.2360	18M9G7D	0.1862	19M0W7D

5G NR n41		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
20	2506.02 ~ 2679.99	0.2698	18M2G7D	0.2158	18M2W7D
40	2516.01 ~ 2670.00	0.2979	37M8G7D	0.2377	37M8W7D
50	2521.02 ~ 2664.99	0.2685	47M5G7D	0.2138	47M6W7D
60	2526.00 ~ 2659.98	0.2667	57M8G7D	0.2143	57M8W7D
80	2536.02 ~ 2649.99	0.2864	77M5G7D	0.2317	77M5W7D
100	2546.01 ~ 2640.00	0.2985	97M5G7D	0.2275	97M6W7D

Note: 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 22, 24, 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.

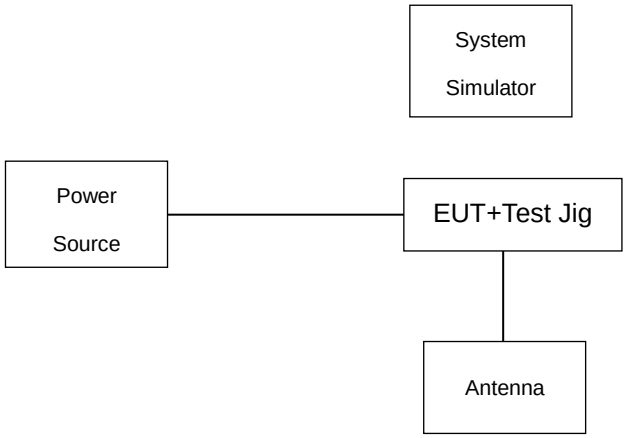
The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

Test Items	5G NR	Bandwidth (MHz)												Modulation					RB #		Test Channel		
		5	10	15	20	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
	n12	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
	n71	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n7	v	v	v	v	-	-	-	-	-	-	-	-	v	v					v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	v	v					v	v	v	v
	n41	-	-	-	v	-				-		-		v	v					v		v	
	n71				v	-	-	-	-	-	-	-	-	v	v					v	v	v	v
26dB and 99% Bandwidth	n7	v	v	v	v	-	-	-	-	-	-	-	-		v	v	v	v		v		v	
	n12	v	v	v	-	-	-	-	-	-	-	-	-		v	v	v	v		v		v	
	n41	-	-	-	v	-	v	v	v	-	v	-	v		v	v	v	v		v		v	
	n71	v	v	v	v	-	-	-	-	-	-	-	-		v	v	v	v		v		v	
Conducted Band Edge	n7	v	v		v	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n41	-	-	-	v	-			v	-		-	v	v	v				v	v	v		v
	n71	v	v		v	-	-	-	-	-	-	-	-	v	v				v	v	v		v
Conducted	n7	v	v		v	-	-	-	-	-	-	-	-	v	v				v		v	v	v

Test Items	5G NR	Bandwidth (MHz)												Modulation					RB #		Test Channel		
		5	10	15	20	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Spurious Emission	n12	v	v	v	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v
	n41	-	-	-	v	-			v	-		-	v	v	v				v		v	v	v
	n71	v	v		v	-	-	-	-	-	-	-	-	v	v				v		v	v	v
Frequency Stability	n7				v	-	-	-	-	-	-	-	-		v					v		v	
	n12		v		-	-	-	-	-	-	-	-	-		v					v	v	v	v
	n41	-	-	-	v	-				-		-			v					v	v	v	v
	n71				v	-	-	-	-	-	-	-	-		v					v	v	v	v
E.R.P / E.I.R.P	n7	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n12	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
	n71	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n7	Worst Case																			v	v	v
	n12	Worst Case																			v	v	v
	n41	Worst Case																			v	v	v
	n71	Worst Case																			v	v	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 = 3.80V ；Low Voltage =3.50V. ；High Voltage =4.40V																						

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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
4.	Antenna	N/A	N/A	N/A	N/A	N/A
5.	Test Jig	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

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 n12 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
15	Channel	141300	141500	141700
	Frequency	706.5	707.5	708.5
10	Channel	140800	141500	142200
	Frequency	704	707.5	711
5	Channel	140300	141500	142700
	Frequency	701.5	707.5	713.5

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
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
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

5G NR n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

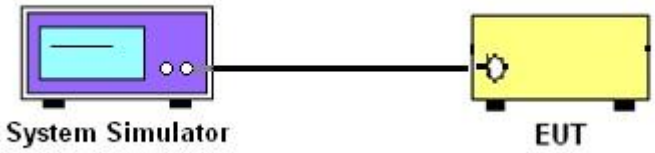
3 Conducted Test Items

3.1 Measuring Instruments

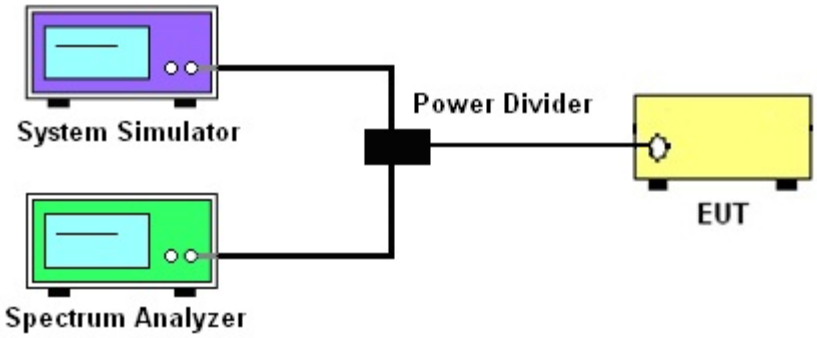
See list of measuring instruments of this test report.

3.2 Test Setup

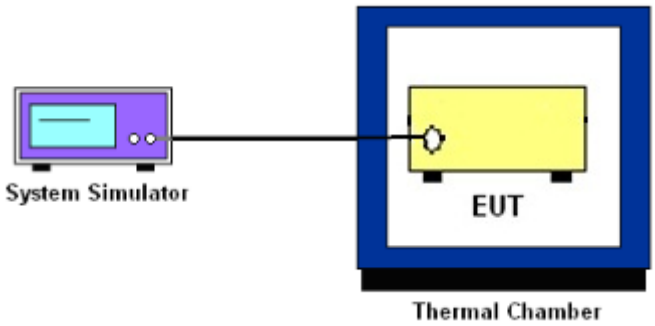
3.2.1 Conducted Output Power



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 ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/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 ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12, n71.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n7, 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 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53(m)(4)

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 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 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. For 5G NR n7/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

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 n7/41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10^{th} 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 power divider. The path loss was compensated to the results for each measurement.
4. Path Loss Factor = Cable + Power Divider, Where the cable and power divider are the total path loss for the system calibration.
5. The low/middle/high channel for the highest RF power within the transmitting frequency was measured.
6. The conducted spurious emission for the whole frequency range was taken.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
8. Set spectrum analyzer with RMS detector.
9. Offset has included the duty factor for TDD band. Duty factor =10 log (1/x), where x is the measured duty cycle.
10. Taking the record of maximum spurious emission.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
12. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
13. For 5G NR n7/41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB) = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB) = -25dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°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.

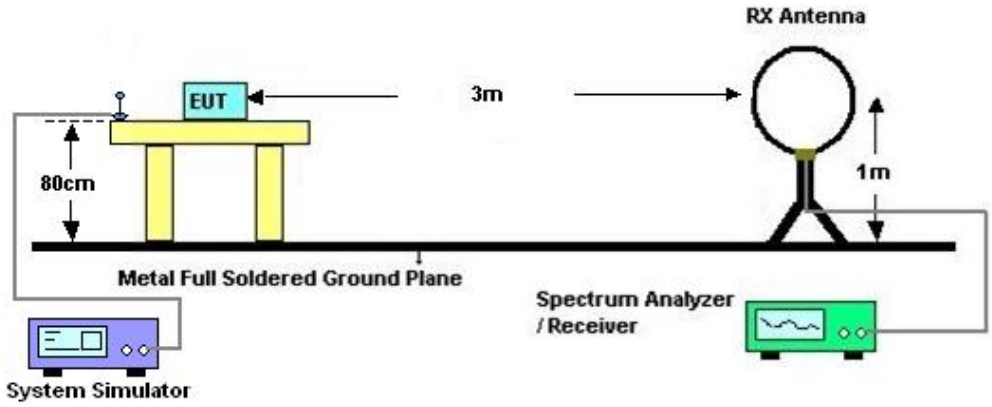
4 Radiated Test Items

4.1 Measuring Instruments

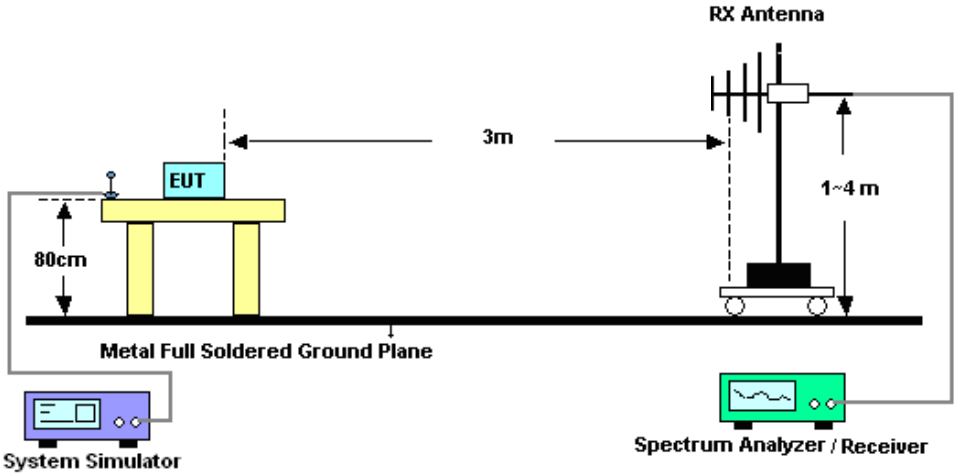
See list of measuring instruments of this test report.

4.2 Test Setup

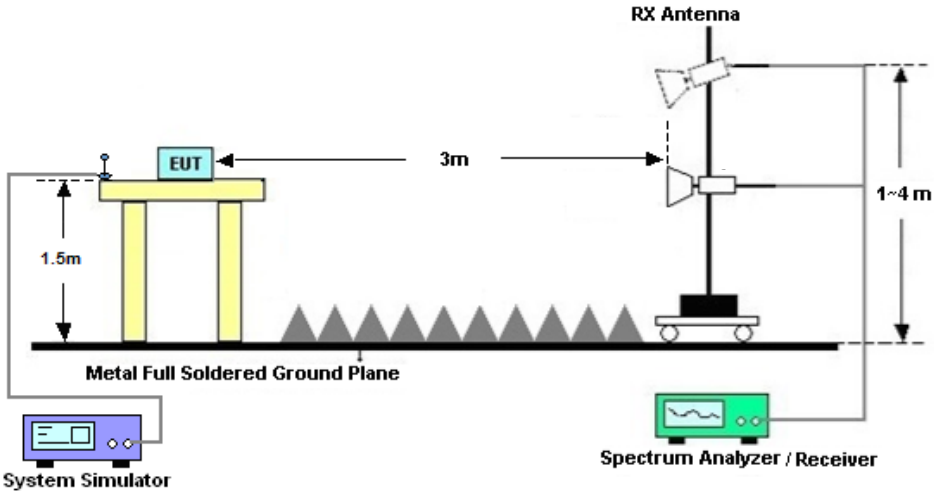
4.2.1 For radiated test below 30MHz



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/n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For 5G NR n7/n41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)The limit line is derived from 55 + 10log(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	Mar. 26, 2026	Jul. 08, 2026~ Jul. 22, 2026	Mar. 25, 2027	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 24, 2025	Jul. 08, 2026~ Jul. 22, 2026	Dec. 23, 2026	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jun. 22, 2026	Jul. 08, 2026~ Jul. 22, 2026	Jun. 21, 2027	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2026	Jul. 30, 2026	Jul. 02, 2027	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 25, 2025	Jul. 30, 2026	Dec. 24, 2026	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Dec. 23, 2025	Jul. 30, 2026	Dec. 22, 2027	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 16, 2026	Jul. 30, 2026	Jul. 15, 2027	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jun. 23 2026	Jul. 30, 2026	Jun. 22, 2027	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	Jul. 30, 2026	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2025	Jul. 30, 2026	Dec. 24, 2026	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 13, 2025	Jul. 30, 2026	Oct. 12, 2026	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 13, 2025	Jul. 30, 2026	Oct. 12, 2026	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jul. 30, 2026	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jul. 30, 2026	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	±0.90 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±0.80 dB
Peak to Average Ratio	±0.80 dB
Frequency Stability	±0.0067 MHz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

---------- THE END ----------

Appendix A. Test Results of Conducted Test

Test Engineer :	Lorenzo Liu	**Temperature :**	24~26℃
		Relative Humidity :	50~53%

FR1 N7

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= 2.56 dB

BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
5	500500	2502.5	DFT-s-OFDM QPSK	12@6	23.32	25.88	0.3873
5	500500	2502.5	DFT-s-OFDM QPSK	1@1	23.3	25.86	0.3855
5	500500	2502.5	DFT-s-OFDM QPSK	1@23	23.31	25.87	0.3864
5	500500	2502.5	DFT-s-OFDM 16 QAM	12@6	22.29	24.85	0.3055
5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	22.4	24.96	0.3133
5	500500	2502.5	DFT-s-OFDM 16 QAM	1@23	22.4	24.96	0.3133
5	507000	2535	DFT-s-OFDM QPSK	12@6	23.59	26.15	0.4121
5	507000	2535	DFT-s-OFDM QPSK	1@1	23.59	26.15	0.4121
5	507000	2535	DFT-s-OFDM QPSK	1@23	23.56	26.12	0.4093
5	507000	2535	DFT-s-OFDM 16 QAM	12@6	22.6	25.16	0.3281
5	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.62	25.18	0.3296
5	507000	2535	DFT-s-OFDM 16 QAM	1@23	22.68	25.24	0.3342
5	513500	2567.5	DFT-s-OFDM QPSK	12@6	23.52	26.08	0.4055
5	513500	2567.5	DFT-s-OFDM QPSK	1@1	23.5	26.06	0.4036
5	513500	2567.5	DFT-s-OFDM QPSK	1@23	23.58	26.14	0.4111
5	513500	2567.5	DFT-s-OFDM 16 QAM	12@6	22.58	25.14	0.3266
5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	22.56	25.12	0.3251
5	513500	2567.5	DFT-s-OFDM 16 QAM	1@23	22.69	25.25	0.3350
10	501000	2505	DFT-s-OFDM QPSK	25@12	23.37	25.93	0.3917
10	501000	2505	DFT-s-OFDM QPSK	1@1	23.3	25.86	0.3855
10	501000	2505	DFT-s-OFDM QPSK	1@50	23.43	25.99	0.3972
10	501000	2505	DFT-s-OFDM 16 QAM	25@12	22.38	24.94	0.3119
10	501000	2505	DFT-s-OFDM 16 QAM	1@1	22.39	24.95	0.3126
10	501000	2505	DFT-s-OFDM 16 QAM	1@50	22.42	24.98	0.3148
10	507000	2535	DFT-s-OFDM QPSK	25@12	23.61	26.17	0.4140
10	507000	2535	DFT-s-OFDM QPSK	1@1	23.42	25.98	0.3963
10	507000	2535	DFT-s-OFDM QPSK	1@50	23.71	26.27	0.4236
10	507000	2535	DFT-s-OFDM 16 QAM	25@12	22.59	25.15	0.3273
10	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.31	24.87	0.3069
10	507000	2535	DFT-s-OFDM 16 QAM	1@50	22.66	25.22	0.3327
10	513000	2565	DFT-s-OFDM QPSK	25@12	23.55	26.11	0.4083
10	513000	2565	DFT-s-OFDM QPSK	1@1	23.38	25.94	0.3926
10	513000	2565	DFT-s-OFDM QPSK	1@50	23.63	26.19	0.4159
10	513000	2565	DFT-s-OFDM 16 QAM	25@12	22.67	25.23	0.3334
10	513000	2565	DFT-s-OFDM 16 QAM	1@1	22.5	25.06	0.3206
10	513000	2565	DFT-s-OFDM 16 QAM	1@50	22.57	25.13	0.3258
15	501500	2507.5	DFT-s-OFDM QPSK	36@18	23.2	25.76	0.3767
15	501500	2507.5	DFT-s-OFDM QPSK	1@1	23.16	25.72	0.3733
15	501500	2507.5	DFT-s-OFDM QPSK	1@77	23.23	25.79	0.3793
15	501500	2507.5	DFT-s-OFDM 16 QAM	36@18	22.25	24.81	0.3027
15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	22.22	24.78	0.3006
15	501500	2507.5	DFT-s-OFDM 16 QAM	1@77	22.3	24.86	0.3062

15	507000	2535	DFT-s-OFDM QPSK	36@18	23.46	26.02	0.3999
15	507000	2535	DFT-s-OFDM QPSK	1@1	23.3	25.86	0.3855
15	507000	2535	DFT-s-OFDM QPSK	1@77	23.43	25.99	0.3972
15	507000	2535	DFT-s-OFDM 16 QAM	36@18	22.44	25	0.3162
15	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.36	24.92	0.3105
15	507000	2535	DFT-s-OFDM 16 QAM	1@77	22.42	24.98	0.3148
15	512500	2562.5	DFT-s-OFDM QPSK	36@18	23.4	25.96	0.3945
15	512500	2562.5	DFT-s-OFDM QPSK	1@1	23.27	25.83	0.3828
15	512500	2562.5	DFT-s-OFDM QPSK	1@77	23.51	26.07	0.4046
15	512500	2562.5	DFT-s-OFDM 16 QAM	36@18	22.33	24.89	0.3083
15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	22.24	24.8	0.3020
15	512500	2562.5	DFT-s-OFDM 16 QAM	1@77	22.61	25.17	0.3289
20	502000	2510	DFT-s-OFDM PI/2 BPSK	50@25	23.45	26.01	0.3990
20	502000	2510	DFT-s-OFDM PI/2 BPSK	1@1	23.3	25.86	0.3855
20	502000	2510	DFT-s-OFDM PI/2 BPSK	1@104	23.4	25.96	0.3945
20	502000	2510	DFT-s-OFDM QPSK	50@25	23.45	26.01	0.3990
20	502000	2510	DFT-s-OFDM QPSK	1@1	23.29	25.85	0.3846
20	502000	2510	DFT-s-OFDM QPSK	1@104	23.46	26.02	0.3999
20	502000	2510	DFT-s-OFDM 16 QAM	50@25	22.45	25.01	0.3170
20	502000	2510	DFT-s-OFDM 16 QAM	1@1	22.4	24.96	0.3133
20	502000	2510	DFT-s-OFDM 16 QAM	1@104	22.43	24.99	0.3155
20	502000	2510	DFT-s-OFDM 64 QAM	50@25	21.02	23.58	0.2280
20	502000	2510	DFT-s-OFDM 64 QAM	1@1	20.84	23.4	0.2188
20	502000	2510	DFT-s-OFDM 64 QAM	1@104	21.07	23.63	0.2307
20	502000	2510	DFT-s-OFDM 256 QAM	50@25	19.04	21.6	0.1445
20	502000	2510	DFT-s-OFDM 256 QAM	1@1	18.95	21.51	0.1416
20	502000	2510	DFT-s-OFDM 256 QAM	1@104	19.08	21.64	0.1459
20	502000	2510	CP-OFDM QPSK	53@26	22.02	24.58	0.2871
20	502000	2510	CP-OFDM QPSK	1@1	21.94	24.5	0.2818
20	502000	2510	CP-OFDM QPSK	1@104	22	24.56	0.2858
20	507000	2535	DFT-s-OFDM PI/2 BPSK	50@25	23.59	26.15	0.4121
20	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.44	26	0.3981
20	507000	2535	DFT-s-OFDM PI/2 BPSK	1@104	23.5	26.06	0.4036
20	507000	2535	DFT-s-OFDM QPSK	50@25	23.65	26.21	0.4178
20	507000	2535	DFT-s-OFDM QPSK	1@1	23.55	26.11	0.4083
20	507000	2535	DFT-s-OFDM QPSK	1@104	23.58	26.14	0.4111
20	507000	2535	DFT-s-OFDM 16 QAM	50@25	22.6	25.16	0.3281
20	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.57	25.13	0.3258
20	507000	2535	DFT-s-OFDM 16 QAM	1@104	22.59	25.15	0.3273
20	507000	2535	DFT-s-OFDM 64 QAM	50@25	21.2	23.76	0.2377
20	507000	2535	DFT-s-OFDM 64 QAM	1@1	21.03	23.59	0.2286
20	507000	2535	DFT-s-OFDM 64 QAM	1@104	21.33	23.89	0.2449
20	507000	2535	DFT-s-OFDM 256 QAM	50@25	19.16	21.72	0.1486
20	507000	2535	DFT-s-OFDM 256 QAM	1@1	19.25	21.81	0.1517
20	507000	2535	DFT-s-OFDM 256 QAM	1@104	19.28	21.84	0.1528
20	507000	2535	CP-OFDM QPSK	53@26	22.2	24.76	0.2992
20	507000	2535	CP-OFDM QPSK	1@1	22.09	24.65	0.2917

20	507000	2535	CP-OFDM QPSK	1@104	22.09	24.65	0.2917
20	512000	2560	DFT-s-OFDM PI/2 BPSK	50@25	23.58	26.14	0.4111
20	512000	2560	DFT-s-OFDM PI/2 BPSK	1@1	23.57	26.13	0.4102
20	512000	2560	DFT-s-OFDM PI/2 BPSK	1@104	23.64	26.2	0.4169
20	512000	2560	DFT-s-OFDM QPSK	50@25	23.62	26.18	0.4150
20	512000	2560	DFT-s-OFDM QPSK	1@1	23.56	26.12	0.4093
20	512000	2560	DFT-s-OFDM QPSK	1@104	23.73	26.29	0.4256
20	512000	2560	DFT-s-OFDM 16 QAM	50@25	22.7	25.26	0.3357
20	512000	2560	DFT-s-OFDM 16 QAM	1@1	22.58	25.14	0.3266
20	512000	2560	DFT-s-OFDM 16 QAM	1@104	22.63	25.19	0.3304
20	512000	2560	DFT-s-OFDM 64 QAM	50@25	21.16	23.72	0.2355
20	512000	2560	DFT-s-OFDM 64 QAM	1@1	21.14	23.7	0.2344
20	512000	2560	DFT-s-OFDM 64 QAM	1@104	21.19	23.75	0.2371
20	512000	2560	DFT-s-OFDM 256 QAM	50@25	19.19	21.75	0.1496
20	512000	2560	DFT-s-OFDM 256 QAM	1@1	19.17	21.73	0.1489
20	512000	2560	DFT-s-OFDM 256 QAM	1@104	19.4	21.96	0.1570
20	512000	2560	CP-OFDM QPSK	53@26	22.23	24.79	0.3013
20	512000	2560	CP-OFDM QPSK	1@1	22.42	24.98	0.3148
20	512000	2560	CP-OFDM QPSK	1@104	22.3	24.86	0.3062

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	-17.2	PASS	NV
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	15.6	PASS	LV
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	12.5	PASS	HV
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	16.1	PASS	-30℃
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	-12.7	PASS	-20℃
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	16	PASS	-10℃
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	-17.6	PASS	0℃
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	-11.7	PASS	10℃
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	17.2	PASS	20℃
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	-17.8	PASS	30℃
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	13.6	PASS	40℃
7	15	20	502000	2535.0	DFT-s-OFDM QPSK	100@0	19	PASS	50℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-18.2	PASS	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	19.5	PASS	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	17.4	PASS	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	14.5	PASS	-30℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-18	PASS	-20℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	17.2	PASS	-10℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-11	PASS	0℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-10.9	PASS	10℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	18.2	PASS	20℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	-12.2	PASS	30℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	14.8	PASS	40℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	19.4	PASS	50℃
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	-12.9	PASS	NV
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	-10.5	PASS	LV

7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	15.8	**PASS**	HV
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	14.0	**PASS**	-30℃
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	-13.8	**PASS**	-20℃
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	11.1	**PASS**	-10℃
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	-14.9	**PASS**	0℃
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	-12.6	**PASS**	10℃
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	12.9	**PASS**	20℃
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	-11	**PASS**	30℃
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	18.2	**PASS**	40℃
7	15	20	512000	2535.0	DFT-s-OFDM QPSK	100@0	16.5	**PASS**	50℃

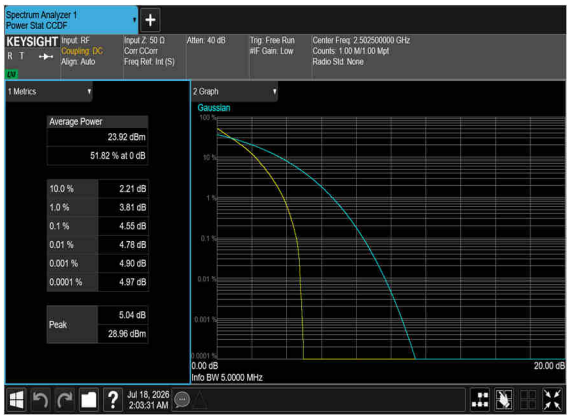
|MAX(△f)| = 19.5Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL – |MAX(△f)|	2500.529482	≧ 2500 MHz	PASS
fH + |MAX(△f)|	2568.391618	≦ 2570 MHz	

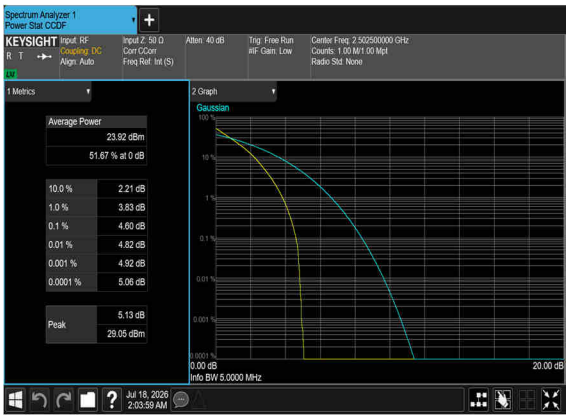
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM PI/2 BPSK	25@0	4.55	13	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	25@0	4.6	13	PASS
7	15	5	507000	2535.0	DFT-s-OFDM PI/2 BPSK	25@0	4.1	13	PASS
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	25@0	5.18	13	PASS
7	15	5	513500	2567.5	DFT-s-OFDM PI/2 BPSK	25@0	3.52	13	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	25@0	4.78	13	PASS
7	15	10	501000	2505.0	DFT-s-OFDM PI/2 BPSK	50@0	3.69	13	PASS
7	15	10	501000	2505.0	DFT-s-OFDM QPSK	50@0	4.66	13	PASS
7	15	10	507000	2535.0	DFT-s-OFDM PI/2 BPSK	50@0	4.16	13	PASS
7	15	10	507000	2535.0	DFT-s-OFDM QPSK	50@0	5.21	13	PASS
7	15	10	513000	2565.0	DFT-s-OFDM PI/2 BPSK	50@0	3.96	13	PASS
7	15	10	513000	2565.0	DFT-s-OFDM QPSK	50@0	4.98	13	PASS
7	15	15	501500	2507.5	DFT-s-OFDM PI/2 BPSK	75@0	3.12	13	PASS
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	75@0	4.59	13	PASS
7	15	15	507000	2535.0	DFT-s-OFDM PI/2 BPSK	75@0	3.25	13	PASS
7	15	15	507000	2535.0	DFT-s-OFDM QPSK	75@0	4.94	13	PASS
7	15	15	512500	2562.5	DFT-s-OFDM PI/2 BPSK	75@0	3.01	13	PASS
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	75@0	4.76	13	PASS
7	15	20	502000	2510.0	DFT-s-OFDM PI/2 BPSK	100@0	3.43	13	PASS
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	100@0	4.45	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	4.0	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	5.13	13	PASS
7	15	20	512000	2560.0	DFT-s-OFDM PI/2 BPSK	100@0	3.84	13	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	100@0	4.96	13	PASS

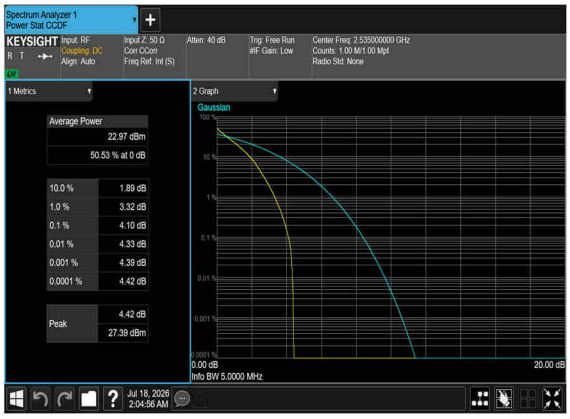
N7(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



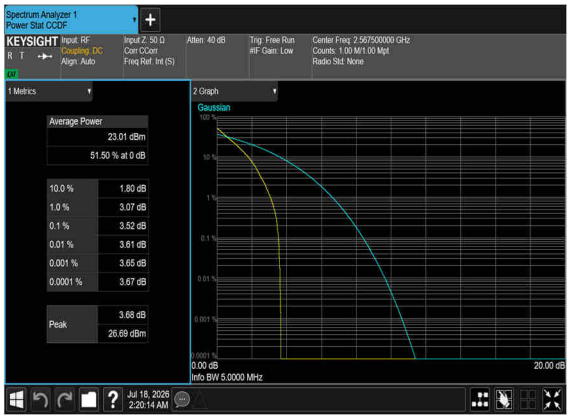
N7(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



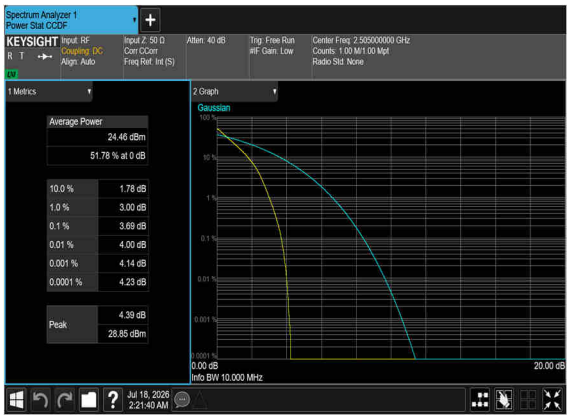
N7(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



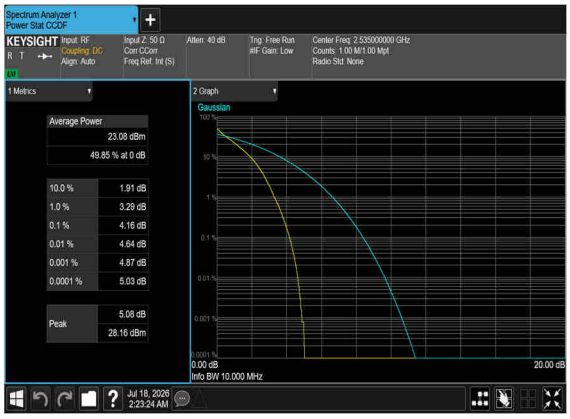
N7(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



N7(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



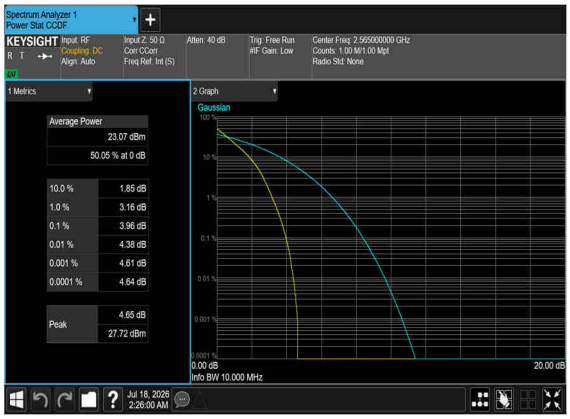
N7(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N7(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



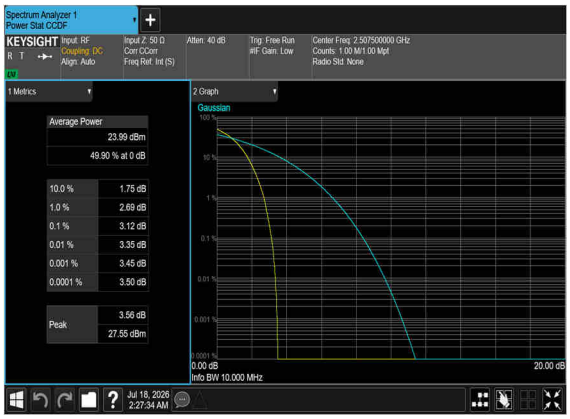
N7(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



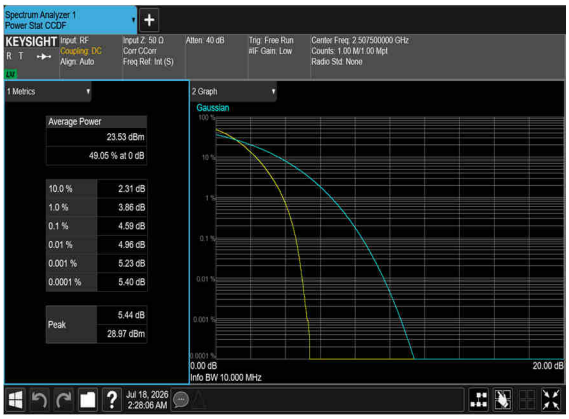
N7(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



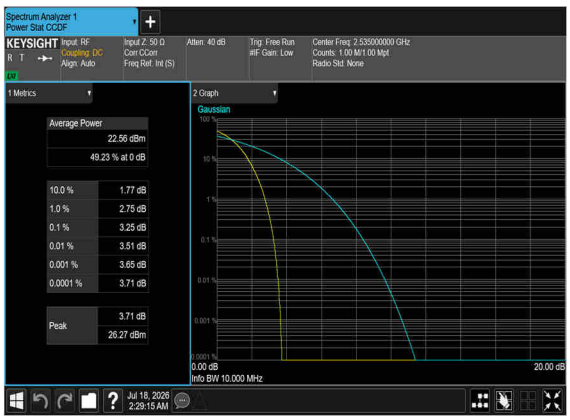
N7(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



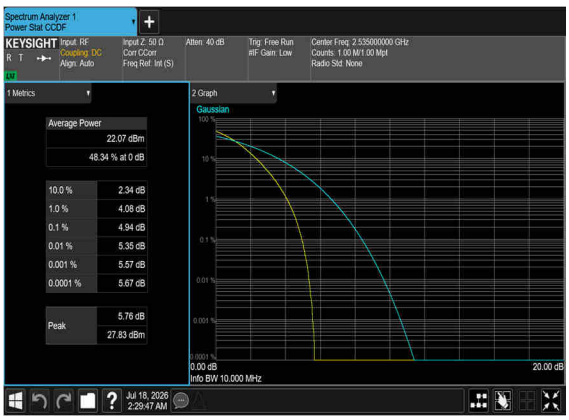
N7(15M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



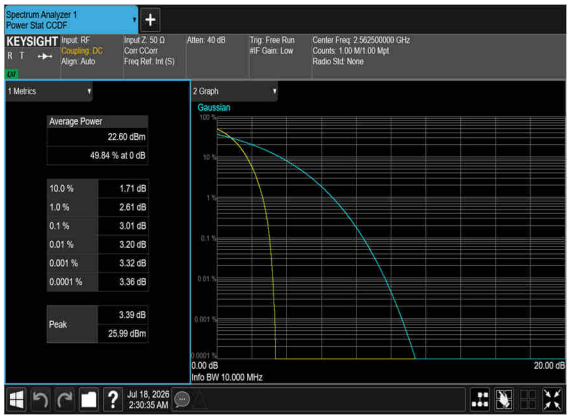
N7(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N7(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



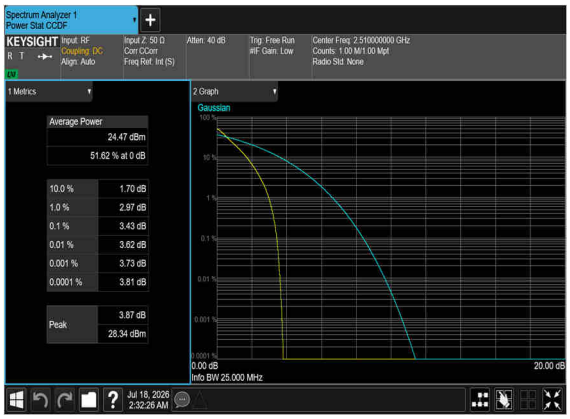
N7(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



N7(15M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



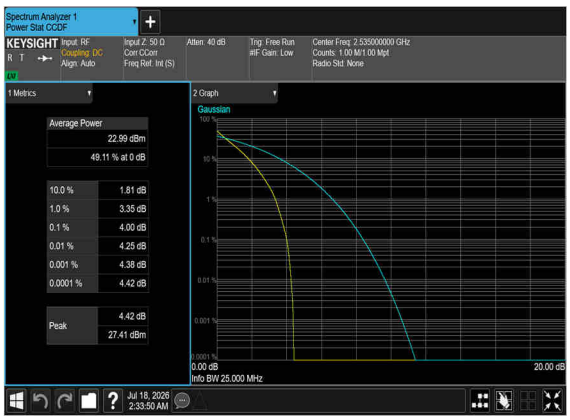
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



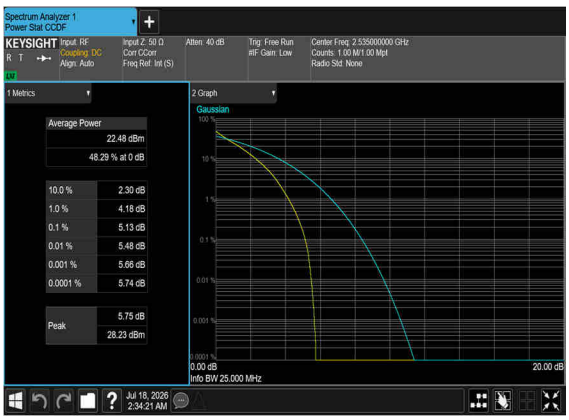
N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



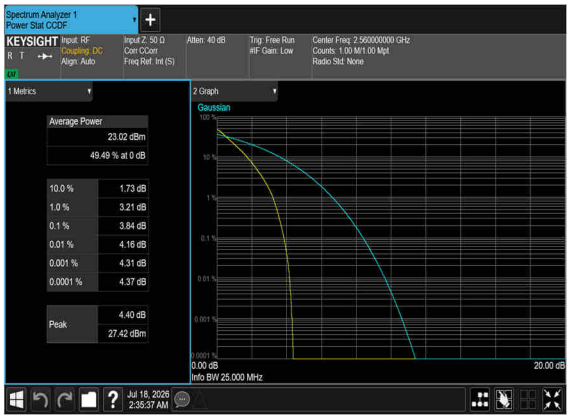
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



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



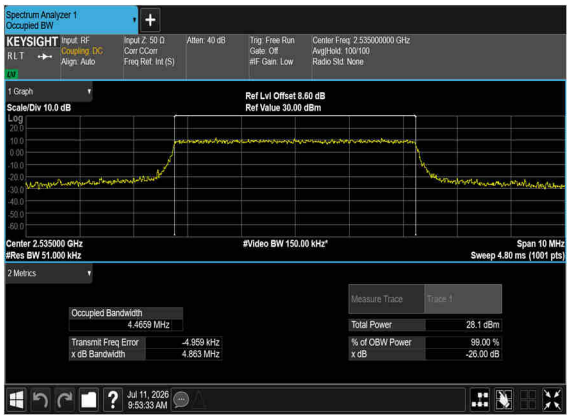
N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



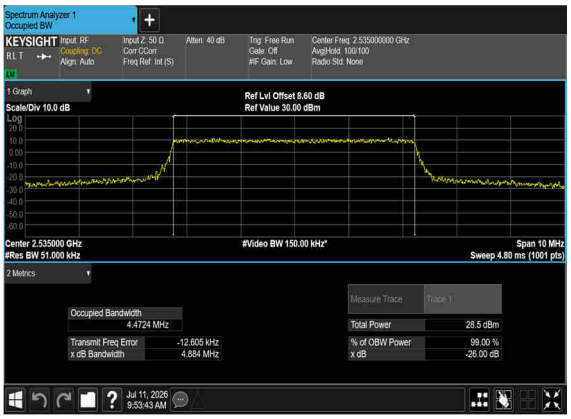
Occupied Bandwidth

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	4.4659	4.863
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4724	4.884
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4757	4.885
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.4677	4.923
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2879	9.867
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2959	9.924
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.3025	9.929
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.3005	9.893
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.118	14.88
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.088	14.8
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.109	14.75
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.117	14.72
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.927	19.68
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.936	20.1
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.9	19.73
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.963	19.76

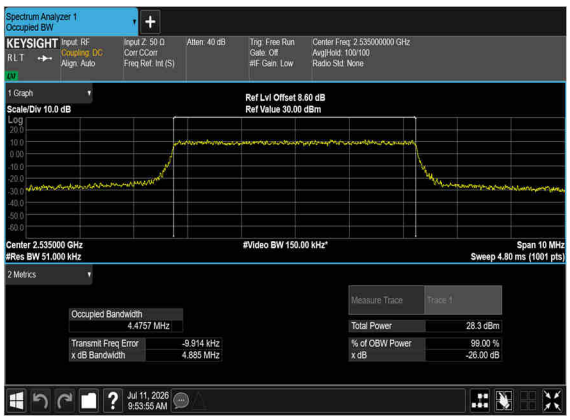
N7(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



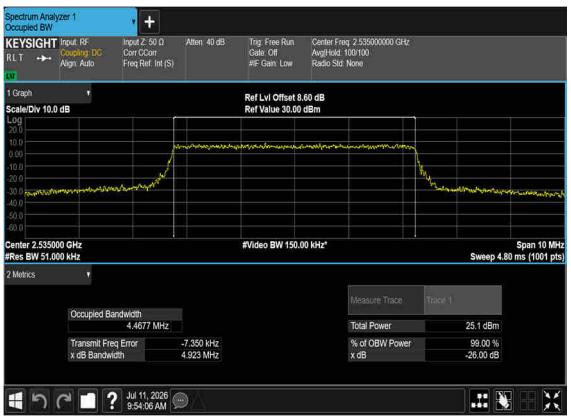
N7(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



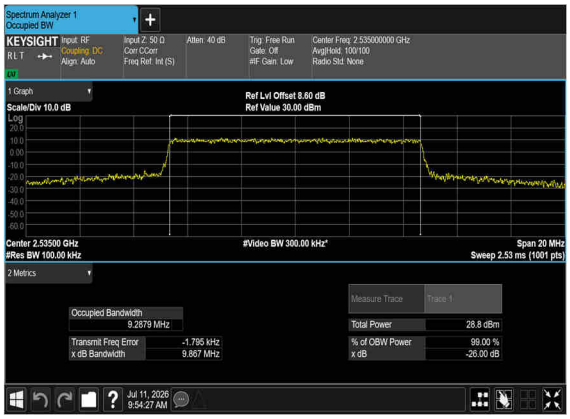
N7(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



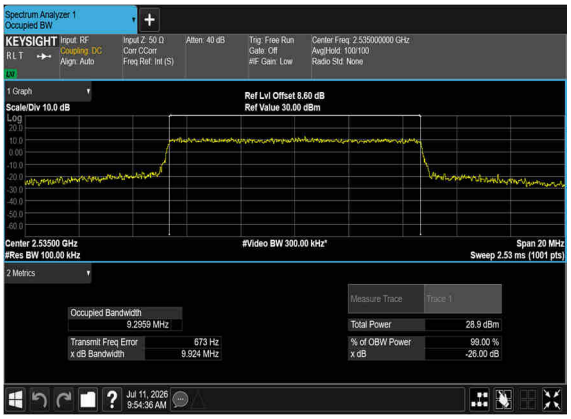
N7(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



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



N7(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



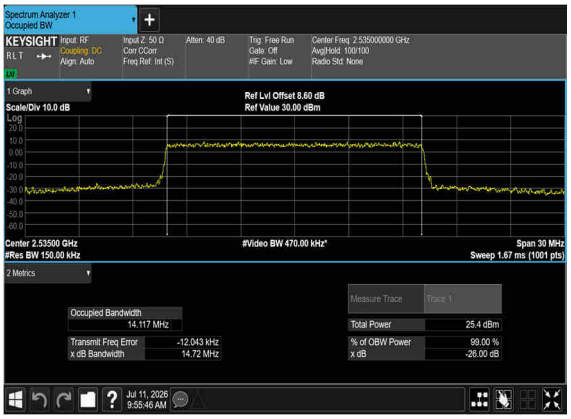
N7(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N7(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



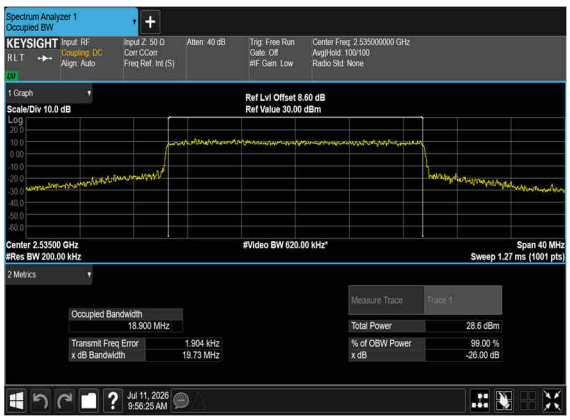
N7(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



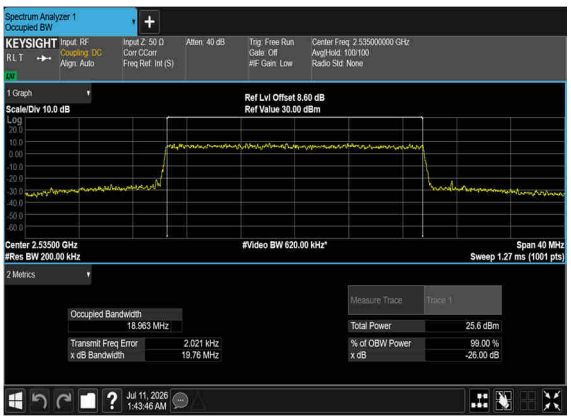
N7(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N7(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



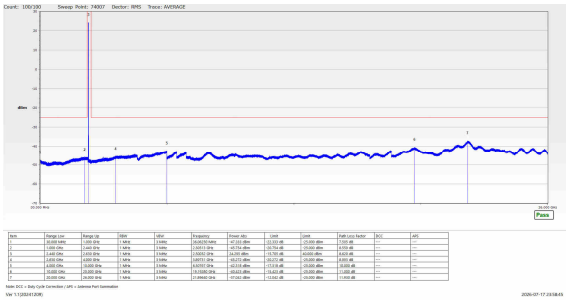
Conducted Spurious Emissions

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**

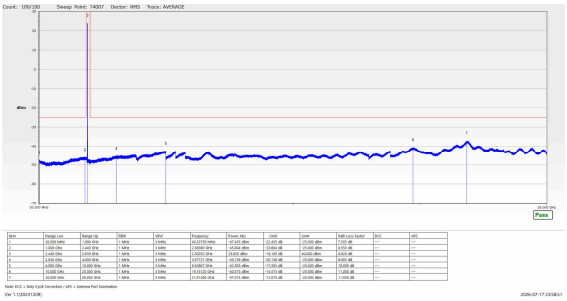
7	15	10	501000	2505.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	10	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	10	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	10	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	10	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
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**

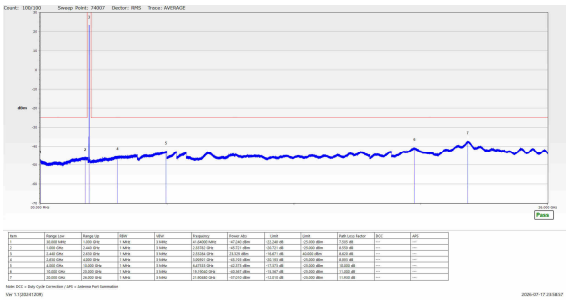
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



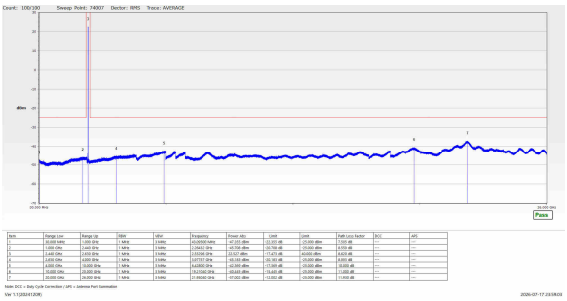
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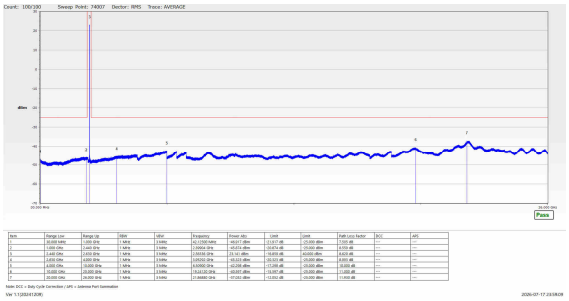
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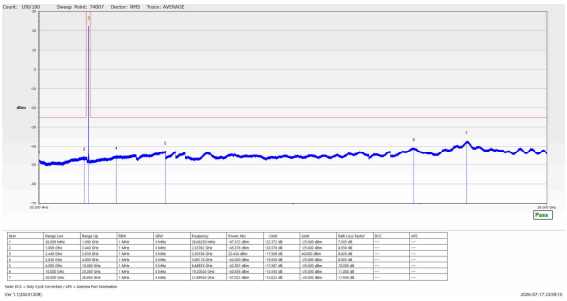
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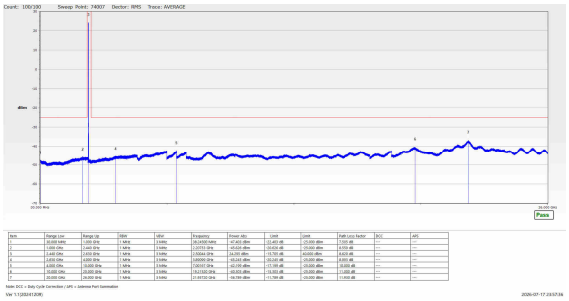
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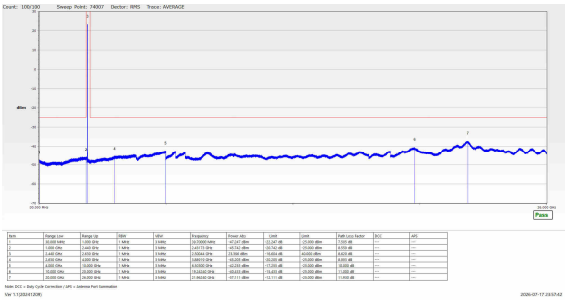
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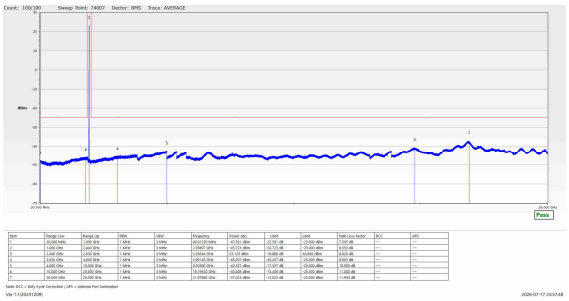
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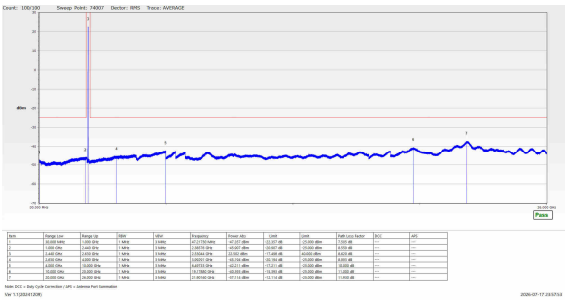
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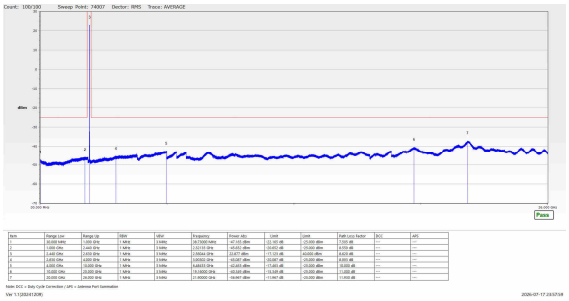
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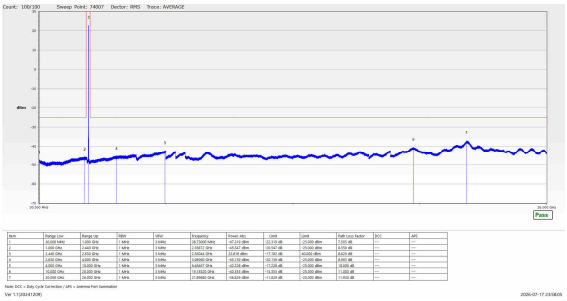
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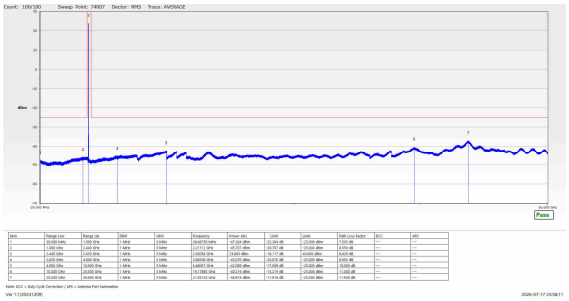
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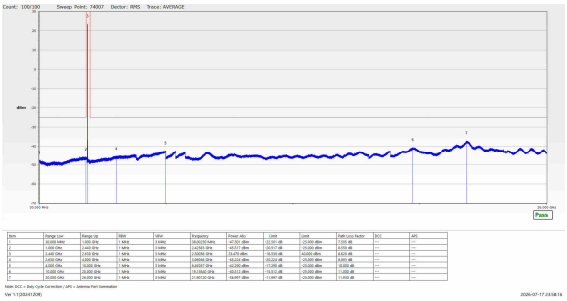
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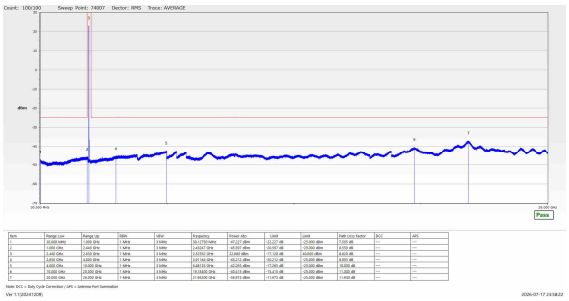
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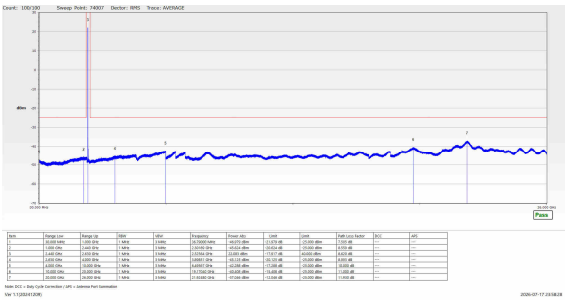
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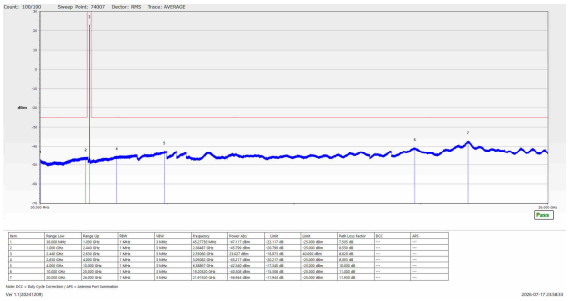
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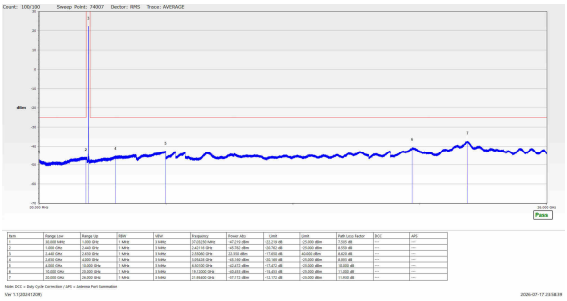
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N7(20M)_DFT-s-OFDM_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 QPSK	100@0	see graph	PASS
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