FCC RF Test Report

APPLICANT	:	**Motorola Mobility LLC**
EQUIPMENT	:	**Mobile Cellular Phone**
BRAND NAME	:	**Motorola**
MODEL NAME	:	**XT2417-1, XT2417-2, XT2417-4, XT2417D**
FCC ID	:	**IHDT56AQ3**
STANDARD	:	**47 CFR Part 2, 27**
CLASSIFICATION	:	**PCS Licensed Transmitter Held to Ear (PCE)**
TEST DATE(S)	:	**Nov. 03, 2023 ~ Nov. 23, 2023**

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG3O1303K	Rev. 01	Initial issue of report	Nov. 30, 2023

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		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66, n70)	EIRP < 1Watt		
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(h) §27.53(g)	Conducted Band Edge Measurement (5G NR n66, n70) (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(h) §27.53(g)	Conducted Spurious Emission (5G NR n66, n70) (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	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §27.53(h) §27.53(g)	Radiated Spurious Emission (5G NR n66, n70) (5G NR n12, n71)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 6.51 dB at 7626.000 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

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2417-1, XT2417-2, XT2417-4, XT2417D
FCC ID	IHDT56AQ3
IMEI Code	Conducted : 354581940048052/354581940048060 Radiation : 350735340018255/350735340018263
HW Version	DVT2
SW Version	U1UFN34.35
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The four model names are only for market segment purpose, there is no other difference.

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 n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz
Rx Frequency	5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n12: 729 MHz ~ 746 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 2110 MHz~ 2200 MHz 5G NR n70 : 1995 MHz ~ 2020 MHz 5G NR n71: 617 MHz ~ 652 MHz
Bandwidth	n7 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz n12, n70 : 5MHz / 10MHz / 15MHz

	n41 : 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz n66: 5MHz / 10MHz / 15MHz / 20MHz / 30MHz / 40MHz n71: 5MHz / 10MHz / 15MHz / 20MHz
SCS	FDD band: 15kHz TDD band: 30kHz
Antenna Gain	**<Ant.0>** n12 : -7.5 dBi n66 : -0.6 dBi n70 : -1.7 dBi n71 : -5.5 dBi **<Ant. 1>** n7 : -1.8 dBi n41 : -1.8 dBi **<Ant. 2>** n41 : -4.9 dBi **<Ant. 4>** n12 : -2.8 dBi n41 : -0.5 dBi n66 : -2.1 dBi n70 : -4.1 dBi n71 : -5.5 dBi **<Ant. 7>** n41 : -3.3 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP are shown in the report: Ant. 1 for 5G NR n7/n41, Ant. 4 for n12, and Ant. 0 for n66/n70/n71.
2. 5G NR n7/n12/n41/n66/n71 support SA & NSA mode, and n70 supports SA mode only. According to the maximum power between SA and NSA mode, SA covers NSA mode.
3. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
4. The device supports n41(1T4R) SRS resources on ant.1/2/4/7, only the test data of worst ant.1 is showed in the report according to the maximum power.
5. 5G NR n41 support HPUE mode.
6. The device supports two PAs for 5G NR n66 (main PA and other PA), the maximum power of other PA is higher than the main PA, therefore, we chose higher power of other PA to calculate the EIRP and show in the report.
7. 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 ERP/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	0.1507	4M47G7D	0.1285	4M50W7D
10	2505.0 ~ 2565.0	0.1455	9M28G7D	0.1256	9M29W7D
15	2507.5 ~ 2562.5	0.1514	14M1G7D	0.1191	14M1W7D
20	2510.0 ~ 2560.0	0.1469	18M9G7D	0.1191	18M9W7D
25	2512.5 ~ 2557.5	0.1426	23M7G7D	0.1172	23M8W7D
30	2515.0 ~ 2555.0	0.1435	28M6G7D	0.1140	28M5W7D
40	2520.0 ~ 2550.0	0.1567	38M5G7D	0.1315	38M6W7D

5G NR n12		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	701.5 ~ 713.5	0.0631	4M47G7D	0.0610	4M47W7D
10	704.0~ 711.0	0.0589	9M26G7D	0.0473	9M27W7D
15	706.5 ~ 708.5	0.0643	14M1G7D	0.0481	14M1W7D

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	0.2924	18M2G7D	0.2084	18M3W7D
30	2511.00 ~ 2674.98	0.3055	27M8G7D	0.2265	27M9W7D
40	2516.01 ~ 2670.00	0.3119	37M8G7D	0.2080	37M8W7D
50	2521.02 ~ 2664.99	0.2972	47M4G7D	0.2123	47M5W7D
60	2526.00 ~ 2659.98	0.2924	57M8G7D	0.2014	57M9W7D
70	2531.01 ~ 2655.00	0.2831	67M3G7D	0.2056	67M5W7D
80	2536.02 ~ 2649.99	0.2742	77M4G7D	0.2089	77M6W7D
90	2541.00 ~ 2644.98	0.2748	87M4G7D	0.2080	87M6W7D
100	2546.01 ~ 2640.00	0.3155	97M2G7D	0.2328	97M6W7D

5G NR n66		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	1712.5 ~ 1777.5	0.2307	4M48G7D	0.1306	4M48W7D
10	1715.0 ~ 1775.0	0.2099	9M28G7D	0.1205	9M29W7D
15	1717.5 ~ 1772.5	0.2042	14M1G7D	0.1172	14M1W7D
20	1720.0 ~ 1770.0	0.2018	18M9G7D	0.1178	19M0W7D
30	1725.0 ~ 1765.0	0.2070	28M6G7D	0.1189	28M6W7D
40	1730.0 ~ 1760.0	0.2317	38M6G7D	0.1315	38M6W7D

5G NR n70		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	1697.5 ~ 1707.5	0.1439	4M46G7D	0.1119	4M48W7D
10	1700.0 ~ 1705.0	0.1483	9M26G7D	0.1156	9M29W7D
15	1702.5	0.1524	14M1G7D	0.1172	14M1W7D

5G NR n71		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	665.5 ~ 695.5	0.0402	4M47G7D	0.0328	4M48W7D
10	668.0 ~ 693.0	0.0401	9M27G7D	0.0330	9M28W7D
15	670.5 ~ 690.5	0.0397	14M1G7D	0.0324	14M1W7D
20	673.0 ~ 688.0	0.0432	18M9G7D	0.0321	18M9W7D

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. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH03-KS 03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH03-KS	AUDIX	E3	210616
3.	03CH04-KS	AUDIX	E3	210616

1.9 Applicable Standards

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

- 47 CFR Part 2, 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.

1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-101
AC Adapter 2	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-101
AC Adapter 3	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-101
Battery 1	**Brand Name**	Motorola (ATL)	**Model Name**	QF50
Battery 2	**Brand Name**	Motorola (Sunwoda)	**Model Name**	QF50
USB Cable 1	**Brand Name**	HE XIN	**Model Name**	HX-HQ-05
USB Cable 2	**Brand Name**	SAI BAO	**Model Name**	SHQ-A174
Earphone	**Brand Name**	Newleader	**Model Name**	EM313A-19SF

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 (X/Y plane) were recorded in this report.

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

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

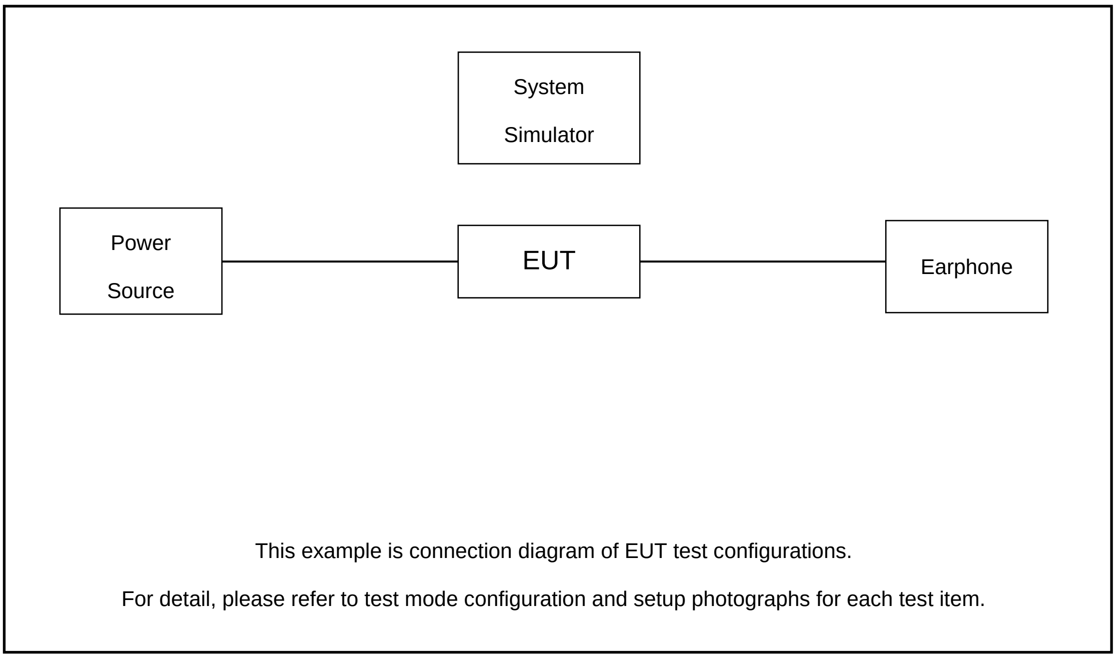
Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n7	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	-	-	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	-	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n70	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	
	n12			v	-	-	-	-	-	-	-	-	-	-	v	v				v	v		v	
	n41	-	-	-	v	-									v	v				v	v		v	
	n66				v	-			-	-	-	-	-	-	v	v				v	v		v	
	n70			v	-	-	-	-	-	-	-	-	-	-	v	v				v	v		v	
	n71				v	-	-	-	-	-	-	-	-	-	v	v				v	v		v	
26dB and 99% Bandwidth	n7	v	v	v	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	v		v		v	
	n66	v	v	v	v	-	v	v	-	-	-	-	-	-		v	v	v	v		v		v	
	n70	v	v	v	-	-	-	-	-	-	-	-	-	-		v	v	v	v		v		v	
	n71	v	v	v	v	-	-	-	-	-	-	-	-	-		v	v	v	v		v		v	

Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
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
	n66	v			v	-		v	-	-	-	-	-	-	v	v				v	v	v		v
	n70	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n71	v	v		v	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
Conducted Spurious Emission	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
	n66	v			v	-		v	-	-	-	-	-	-	v	v				v		v	v	v
	n70	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	
	n41	-	-	-	v	-										v					v		v	
	n66				v	-			-	-	-	-	-	-		v					v		v	
	n70		v		-	-	-	-	-	-	-	-	-	-		v					v		v	
	n71				v	-	-	-	-	-	-	-	-	-		v					v		v	
E.R.P/E.I.R.P	n7	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	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	v	v	v
	n66	v	v	v	v	-	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n70	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
	n66	Worst Case																				v	v	v
	n70	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 = 3.91V ；Low Voltage =3.4V.；High Voltage =4.5V
5. All test items are based on engineering evaluation.

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
4.	Earphone	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 + attenuator factor.

Following shows an offset computation example with cable loss 6.4 dB and 20dB attenuator.

Example :

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

= 6.4 + 20 = 26.4 (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**
40	Channel	504000	507000	510000
	Frequency	2520	2535	2550
30	Channel	503000	507000	511000
	Frequency	2515	2535	2555
25	Channel	502500	507000	511500
	Frequency	2512.5	2535	2557.5
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5

5G NR 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
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 NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
30	Channel	345000	349000	353000
	Frequency	1725	1745	1765
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

5G NR n70 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel		340500	
	Frequency		1702.5	
10	Channel	340000	340500	341000
	Frequency	1700	1702.5	1705
5	Channel	399500	340500	341500
	Frequency	1697.5	1702.5	1707.5

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

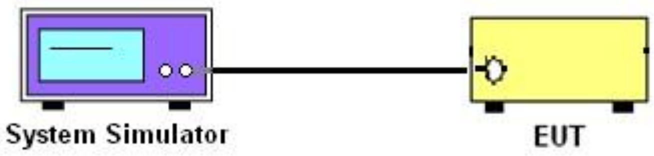
3 Conducted Test Items

3.1 Measuring Instruments

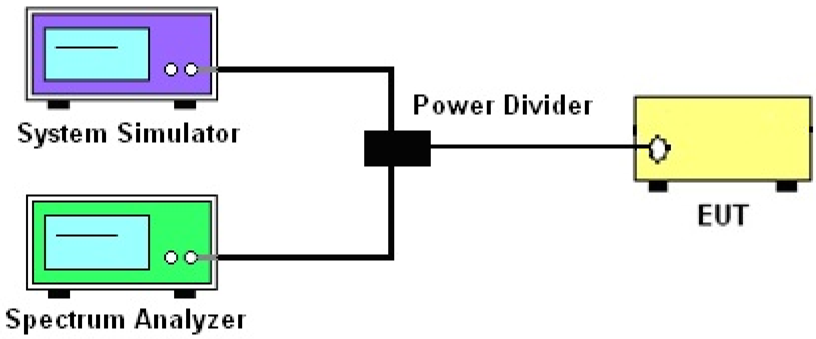
See list of measuring instruments of this test report.

3.2 Test Setup

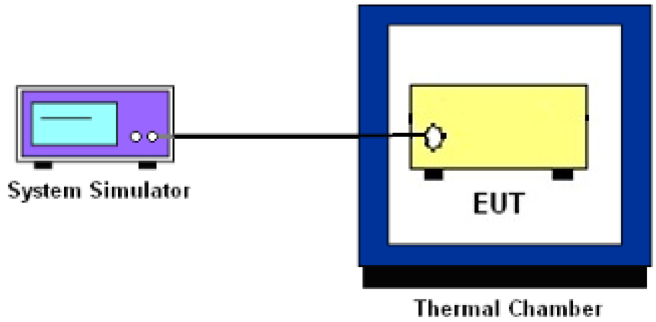
3.2.1 Conducted Output Power



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.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66, n70.

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 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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/n41:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10^{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 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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
11. For 5G NR n7/n41
    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.

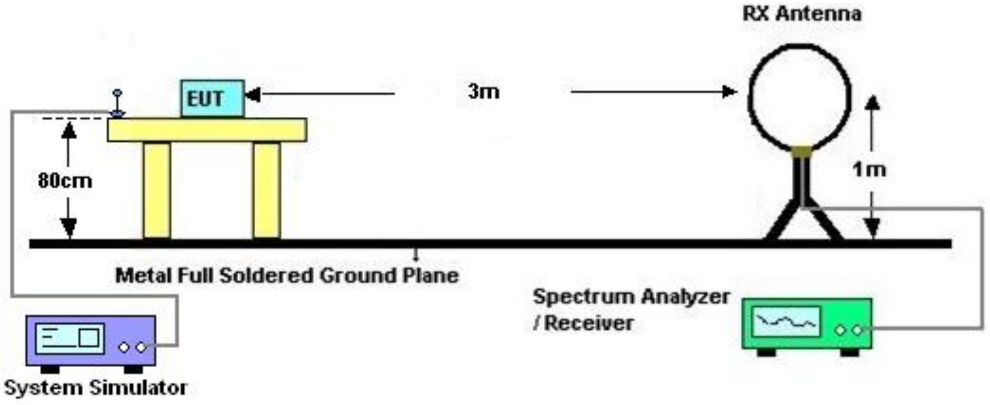
4 Radiated Test Items

4.1 Measuring Instruments

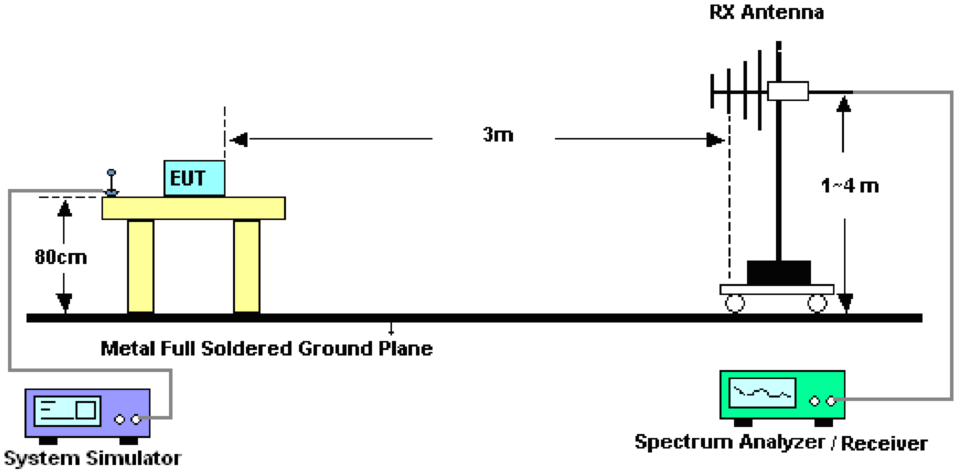
See list of measuring instruments of this test report.

4.2 Test Setup

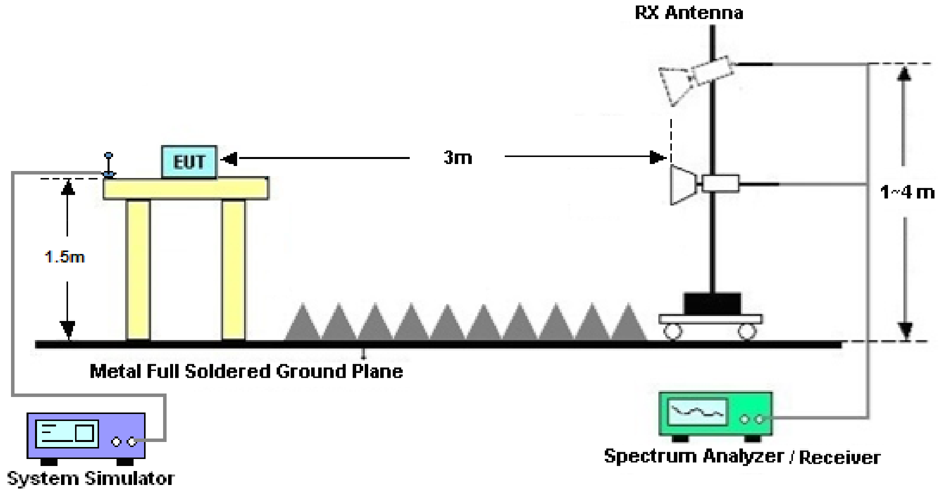
4.2.1 For radiated test below 30MHz



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
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	May 15, 2023	Nov. 03, 2023~ Nov. 10, 2023	May 14, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Nov. 03, 2023~ Nov. 10, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Nov. 03, 2023~ Nov. 10, 2023	Jul. 05, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	May 15, 2023	Nov. 23, 2023	May 14, 2024	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-1GHz	Dec. 23, 2022	Nov. 23, 2023	Dec. 22, 2023	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Nov. 23, 2023	Oct. 22, 2024	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101116	18GHz~40GHz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	413740	30MHz ~1000MHz	Jan. 05, 2023	Nov. 23, 2023	Jan. 04, 2024	Radiation (03CH03-KS)
Amplifier	EM	EM18G40G A	060851	18~40GHz	Jan. 05, 2023	Nov. 23, 2023	Jan. 04, 2024	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2082394	1Ghz-18Ghz	Jan. 05, 2023	Nov. 23, 2023	Jan. 04, 2024	Radiation (03CH03-KS)
Amplifier	Keysight	83017A	MY53270319	1GHz~26.5GHz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 23, 2023	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 23, 2023	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 23, 2023	NCR	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Nov. 23, 2023	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Nov. 23, 2023	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Nov. 23, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Nov. 23, 2023	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	Nov. 23, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Nov. 23, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 23, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 23, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 23, 2023	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

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

03CH03-KS

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.76 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.65 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.57 dB**

03CH04-KS

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.82 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.56 dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.54 dB**

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	**Temperature :**	22~23℃
		Relative Humidity :	40~42%

Software Version: 23.06.1602

FR1 N7_Ant.1

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-1.8dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	108@54	23.03	21.23	0.1327
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	1@1	22.87	21.07	0.1279
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	1@214	23.15	21.35	0.1365
7	15	40	504000	2520	DFT-s-OFDM QPSK	108@54	23.05	21.25	0.1334
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@1	23	21.2	0.1318
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@214	23.34	21.54	0.1426
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	108@54	22.04	20.24	0.1057
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@1	21.98	20.18	0.1042
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@214	22.33	20.53	0.1130
7	15	40	504000	2520	DFT-s-OFDM 64 QAM	108@54	20.53	18.73	0.0746
7	15	40	504000	2520	DFT-s-OFDM 64 QAM	1@1	20.5	18.7	0.0741
7	15	40	504000	2520	DFT-s-OFDM 64 QAM	1@214	20.9	19.1	0.0813
7	15	40	504000	2520	DFT-s-OFDM 256 QAM	108@54	18.5	16.7	0.0468
7	15	40	504000	2520	DFT-s-OFDM 256 QAM	1@1	18.18	16.38	0.0435
7	15	40	504000	2520	DFT-s-OFDM 256 QAM	1@214	18.45	16.65	0.0462
7	15	40	504000	2520	CP-OFDM QPSK	108@54	21.51	19.71	0.0935
7	15	40	504000	2520	CP-OFDM QPSK	1@1	21.54	19.74	0.0942
7	15	40	504000	2520	CP-OFDM QPSK	1@214	21.83	20.03	0.1007
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	108@54	23.27	21.47	0.1403
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.09	21.29	0.1346
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	1@214	23.62	21.82	0.1521
7	15	40	507000	2535	DFT-s-OFDM QPSK	108@54	23.35	21.55	0.1429
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@1	23.14	21.34	0.1361
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@214	23.75	21.95	0.1567
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	108@54	22.34	20.54	0.1132
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.14	20.34	0.1081
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@214	22.71	20.91	0.1233
7	15	40	507000	2535	DFT-s-OFDM 64 QAM	108@54	20.82	19.02	0.0798
7	15	40	507000	2535	DFT-s-OFDM 64 QAM	1@1	20.65	18.85	0.0767
7	15	40	507000	2535	DFT-s-OFDM 64 QAM	1@214	21.26	19.46	0.0883
7	15	40	507000	2535	DFT-s-OFDM 256 QAM	108@54	18.58	16.78	0.0476
7	15	40	507000	2535	DFT-s-OFDM 256 QAM	1@1	18.41	16.61	0.0458
7	15	40	507000	2535	DFT-s-OFDM 256 QAM	1@214	18.83	17.03	0.0505
7	15	40	507000	2535	CP-OFDM QPSK	108@54	21.71	19.91	0.0979
7	15	40	507000	2535	CP-OFDM QPSK	1@1	21.79	19.99	0.0998
7	15	40	507000	2535	CP-OFDM QPSK	1@214	22.16	20.36	0.1086
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	108@54	23.44	21.64	0.1459
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	1@1	23.14	21.34	0.1361
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	1@214	23.47	21.67	0.1469
7	15	40	510000	2550	DFT-s-OFDM QPSK	108@54	23.55	21.75	0.1496

7	15	40	510000	2550	DFT-s-OFDM QPSK	1@1	23.36	21.56	0.1432
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@214	23.65	21.85	0.1531
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	108@54	22.56	20.76	0.1191
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@1	22.33	20.53	0.1130
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@214	22.99	21.19	0.1315
7	15	40	510000	2550	DFT-s-OFDM 64 QAM	108@54	20.99	19.19	0.0830
7	15	40	510000	2550	DFT-s-OFDM 64 QAM	1@1	20.84	19.04	0.0802
7	15	40	510000	2550	DFT-s-OFDM 64 QAM	1@214	21.42	19.62	0.0916
7	15	40	510000	2550	DFT-s-OFDM 256 QAM	108@54	18.96	17.16	0.0520
7	15	40	510000	2550	DFT-s-OFDM 256 QAM	1@1	18.42	16.62	0.0459
7	15	40	510000	2550	DFT-s-OFDM 256 QAM	1@214	19.15	17.35	0.0543
7	15	40	510000	2550	CP-OFDM QPSK	108@54	21.97	20.17	0.1040
7	15	40	510000	2550	CP-OFDM QPSK	1@1	21.72	19.92	0.0982
7	15	40	510000	2550	CP-OFDM QPSK	1@214	22.36	20.56	0.1138
7	15	5	500500	2502.5	DFT-s-OFDM PI/2 BPSK	1@1	22.74	20.94	0.1242
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@1	22.88	21.08	0.1282
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	21.91	20.11	0.1026
7	15	5	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.17	21.37	0.1371
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@1	23.18	21.38	0.1374
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.23	20.43	0.1104
7	15	5	513500	2567.5	DFT-s-OFDM PI/2 BPSK	1@1	23.58	21.78	0.1507
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@1	23.51	21.71	0.1483
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	22.89	21.09	0.1285
7	15	10	501000	2505	DFT-s-OFDM PI/2 BPSK	1@1	22.85	21.05	0.1274
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@1	22.84	21.04	0.1271
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@1	21.84	20.04	0.1009
7	15	10	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.13	21.33	0.1358
7	15	10	507000	2535	DFT-s-OFDM QPSK	1@1	23.35	21.55	0.1429
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.21	20.41	0.1099
7	15	10	513000	2565	DFT-s-OFDM PI/2 BPSK	1@1	23.43	21.63	0.1455
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@1	23.26	21.46	0.1400
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@1	22.79	20.99	0.1256
7	15	15	501500	2507.5	DFT-s-OFDM PI/2 BPSK	1@1	22.56	20.76	0.1191
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@1	22.68	20.88	0.1225
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	21.68	19.88	0.0973
7	15	15	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.9	21.1	0.1288
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@1	23.07	21.27	0.1340
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.09	20.29	0.1069
7	15	15	512500	2562.5	DFT-s-OFDM PI/2 BPSK	1@1	23.44	21.64	0.1459
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@1	23.6	21.8	0.1514
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	22.56	20.76	0.1191
7	15	20	502000	2510	DFT-s-OFDM PI/2 BPSK	1@1	22.55	20.75	0.1189
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@1	22.61	20.81	0.1205
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@1	21.69	19.89	0.0975
7	15	20	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.88	21.08	0.1282
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@1	22.87	21.07	0.1279
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@1	22	20.2	0.1047
7	15	20	512000	2560	DFT-s-OFDM PI/2 BPSK	1@1	23.46	21.66	0.1466

7	15	20	512000	2560	DFT-s-OFDM QPSK	1@1	23.47	21.67	0.1469
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@1	22.56	20.76	0.1191
7	15	25	502500	2512.5	DFT-s-OFDM PI/2 BPSK	1@1	22.77	20.97	0.1250
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@1	22.97	21.17	0.1309
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	1@1	21.91	20.11	0.1026
7	15	25	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.02	21.22	0.1324
7	15	25	507000	2535	DFT-s-OFDM QPSK	1@1	23.18	21.38	0.1374
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.23	20.43	0.1104
7	15	25	511500	2557.5	DFT-s-OFDM PI/2 BPSK	1@1	23.34	21.54	0.1426
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@1	23.22	21.42	0.1387
7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	1@1	22.49	20.69	0.1172
7	15	30	503000	2515	DFT-s-OFDM PI/2 BPSK	1@1	22.8	21	0.1259
7	15	30	503000	2515	DFT-s-OFDM QPSK	1@1	22.87	21.07	0.1279
7	15	30	503000	2515	DFT-s-OFDM 16 QAM	1@1	21.95	20.15	0.1035
7	15	30	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	22.98	21.18	0.1312
7	15	30	507000	2535	DFT-s-OFDM QPSK	1@1	23.21	21.41	0.1384
7	15	30	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.15	20.35	0.1084
7	15	30	511000	2555	DFT-s-OFDM PI/2 BPSK	1@1	23.37	21.57	0.1435
7	15	30	511000	2555	DFT-s-OFDM QPSK	1@1	23.34	21.54	0.1426
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	1@1	22.37	20.57	0.1140

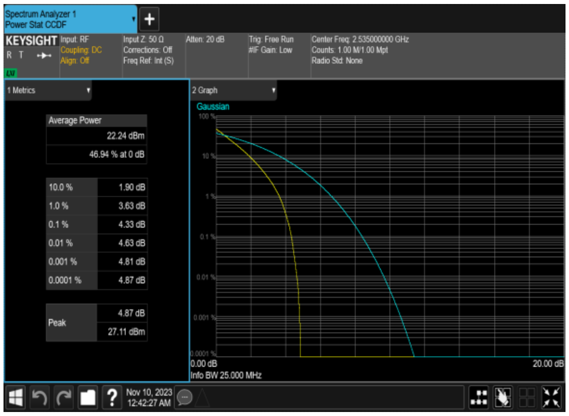
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0122	**PASS**	NV
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0028	**PASS**	LV
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0015	**PASS**	HV
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0035	**PASS**	-10℃
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	-0.0019	**PASS**	0℃
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0039	**PASS**	10℃
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0054	**PASS**	20℃
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0028	**PASS**	30℃
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0018	**PASS**	40℃
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0213	**PASS**	55℃

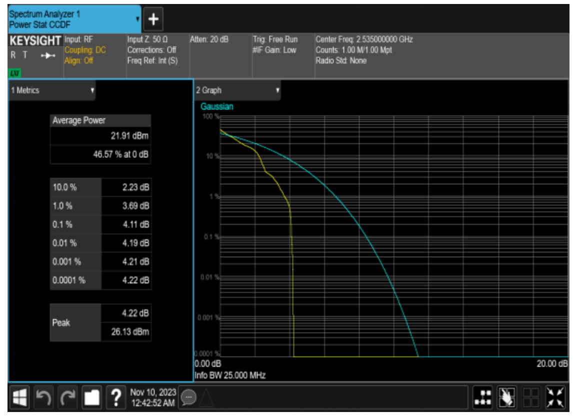
Peak to Average Ratio

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	4.33	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	1@0	4.11	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	5.51	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	5.96	13	**PASS**

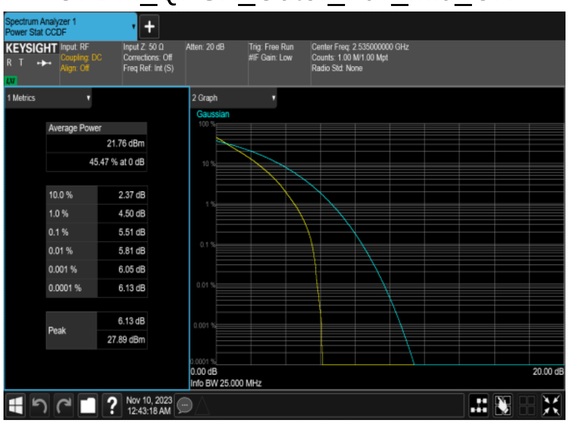
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N7(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

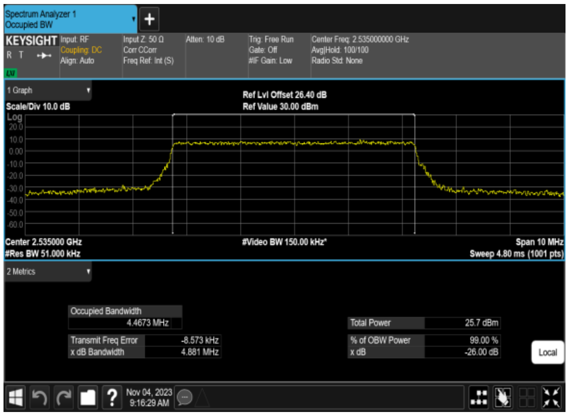


N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

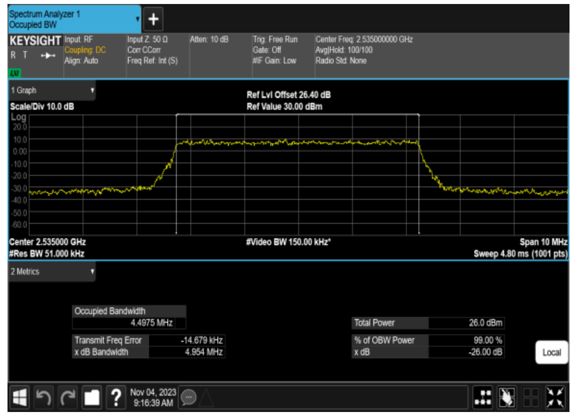
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4673	4.881
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4975	4.954
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4602	4.813
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.4792	4.884
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2806	9.847
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2657	9.823
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2639	9.763
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.2886	9.885
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.07	14.84
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.106	14.72
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.101	14.84
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.077	14.79
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.915	19.72
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.939	19.79
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.912	19.65
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.9	19.77
7	15	25	507000	2535.0	CP-OFDM QPSK	133@0	23.692	24.73
7	15	25	507000	2535.0	CP-OFDM 16 QAM	133@0	23.698	24.71
7	15	25	507000	2535.0	CP-OFDM 64 QAM	133@0	23.76	24.63
7	15	25	507000	2535.0	CP-OFDM 256 QAM	133@0	23.753	24.65
7	15	30	507000	2535.0	CP-OFDM QPSK	160@0	28.577	29.57
7	15	30	507000	2535.0	CP-OFDM 16 QAM	160@0	28.515	29.56
7	15	30	507000	2535.0	CP-OFDM 64 QAM	160@0	28.495	29.58
7	15	30	507000	2535.0	CP-OFDM 256 QAM	160@0	28.513	29.56
7	15	40	507000	2535.0	CP-OFDM QPSK	216@0	38.5	39.88
7	15	40	507000	2535.0	CP-OFDM 16 QAM	216@0	38.508	39.82
7	15	40	507000	2535.0	CP-OFDM 64 QAM	216@0	38.585	39.85
7	15	40	507000	2535.0	CP-OFDM 256 QAM	216@0	38.474	39.86

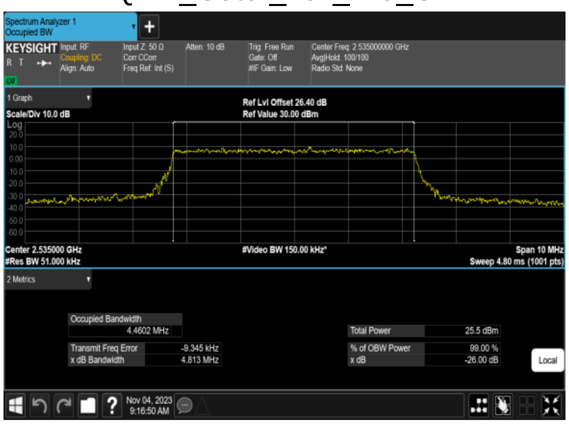
N7(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



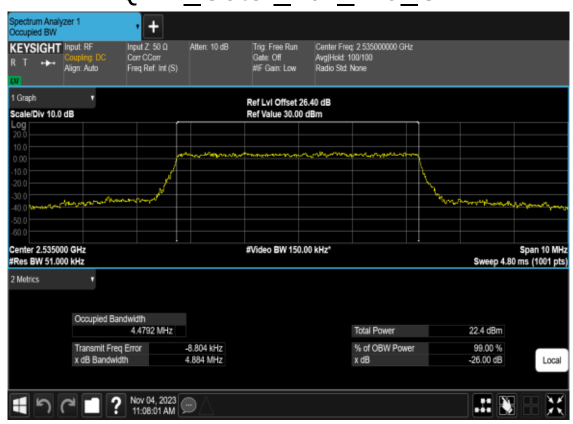
N7(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



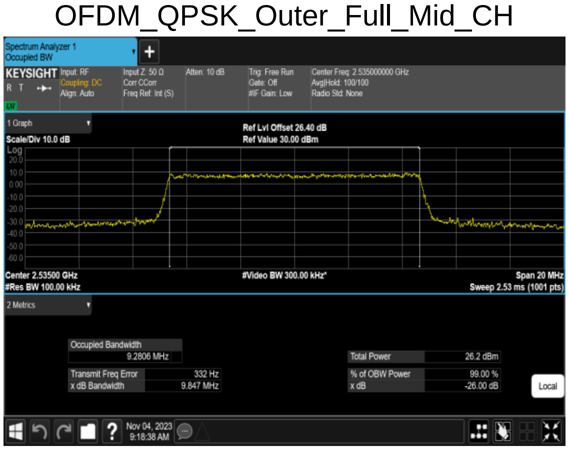
N7(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



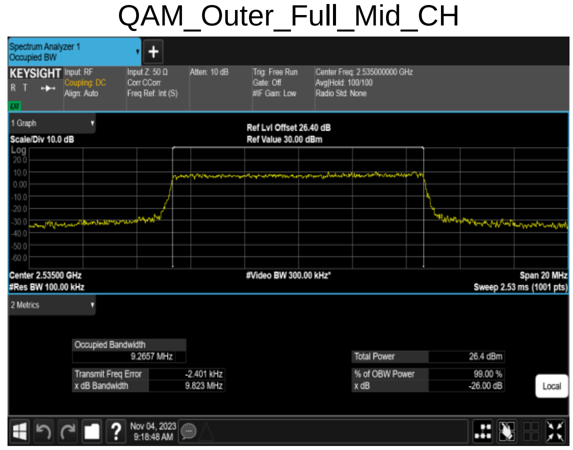
N7(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N7(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

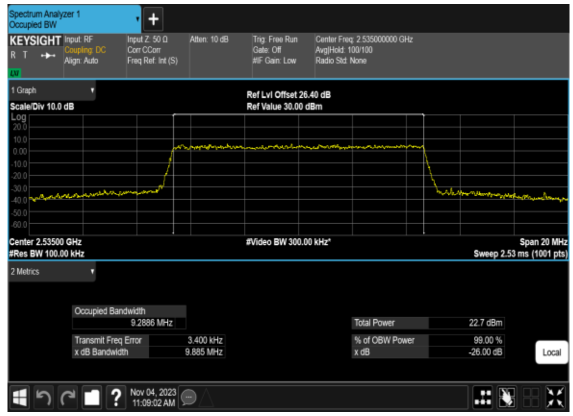


N7(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



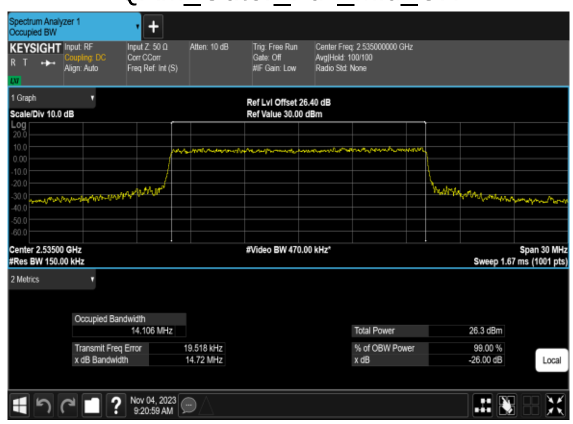
N7(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N7(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

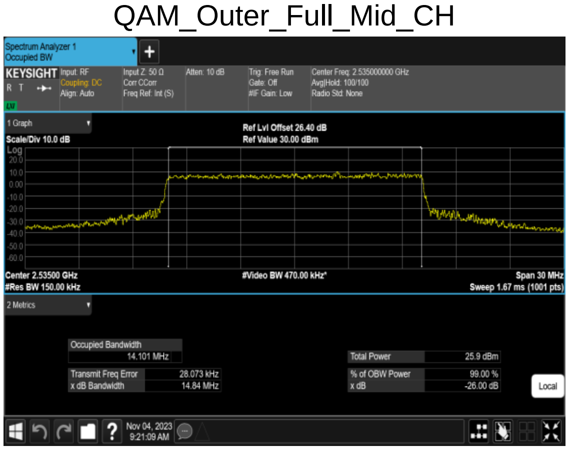


N7(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

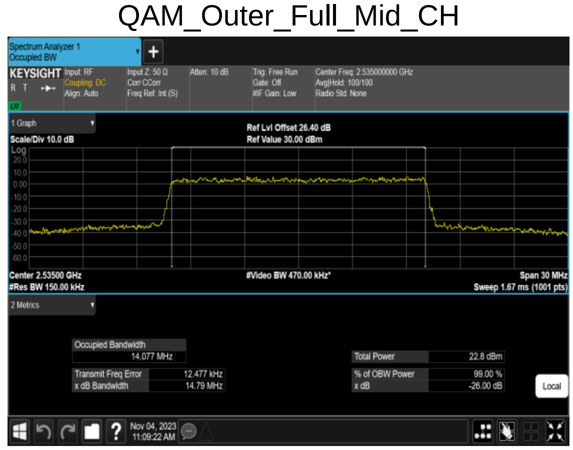
N7(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



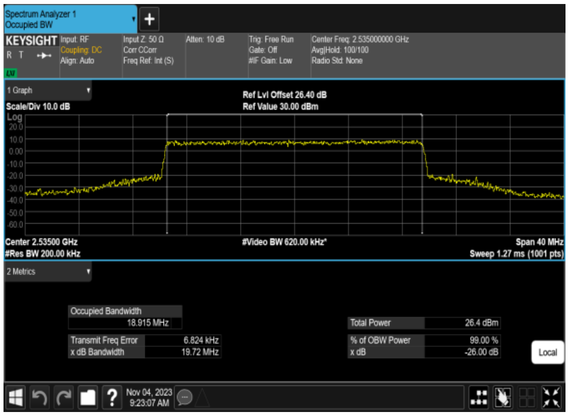
N7(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

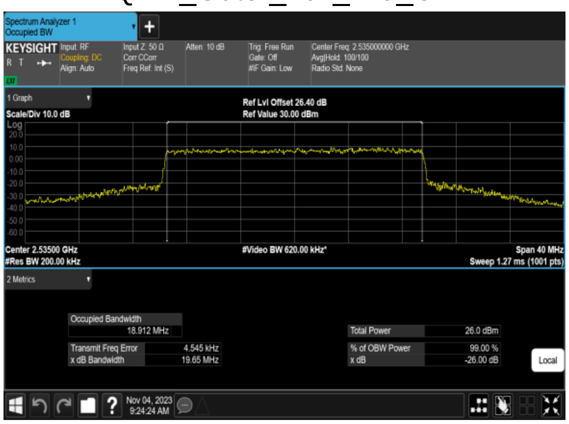


N7(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

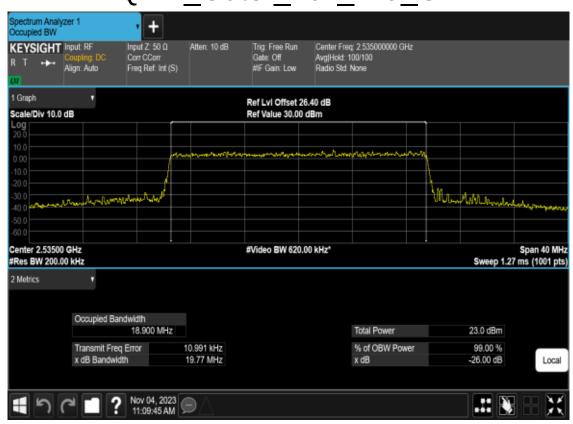


N7(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

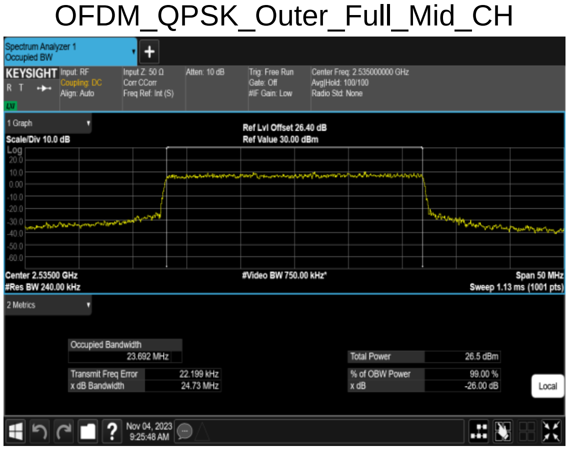
N7(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



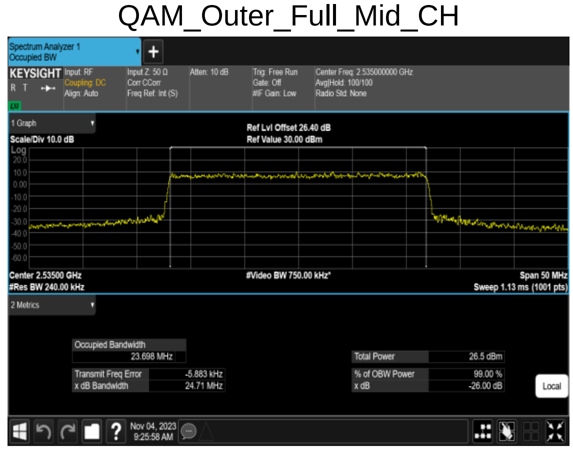
N7(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N7(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



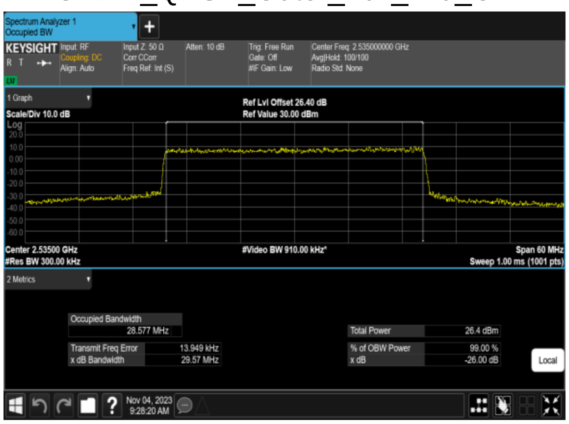
N7(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



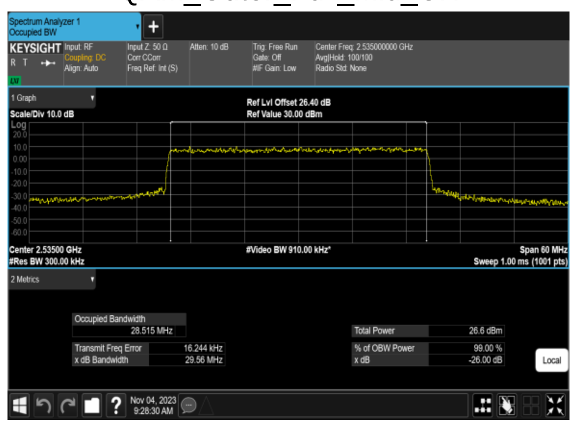
N7(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N7(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

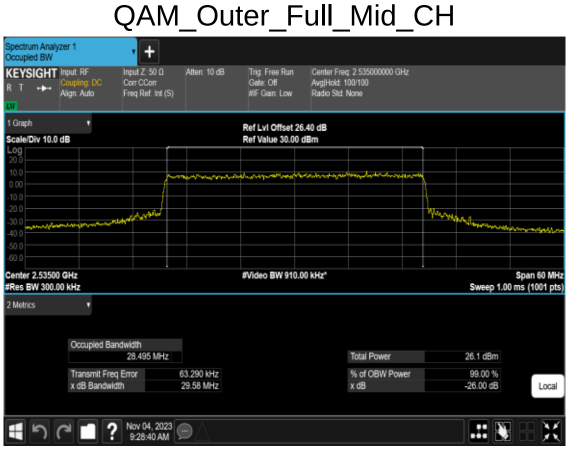
N7(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



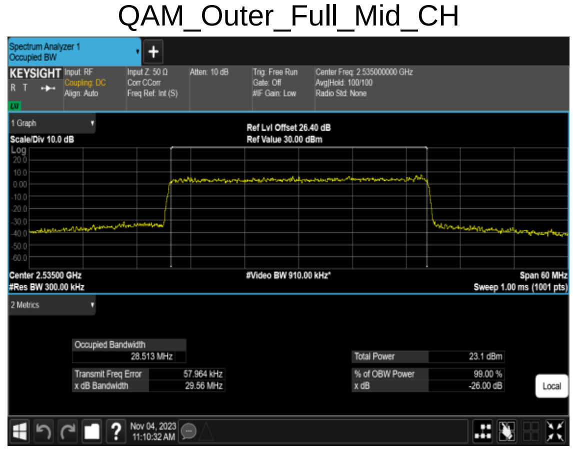
N7(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



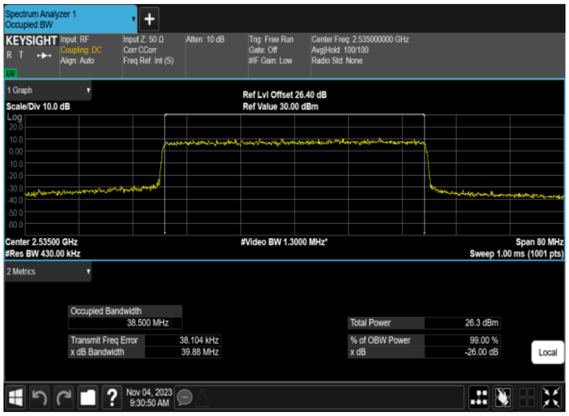
N7(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



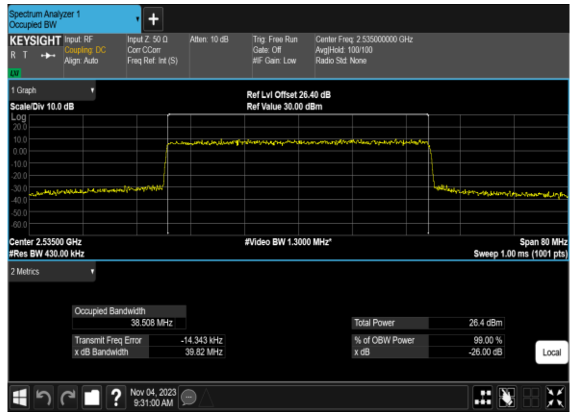
N7(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



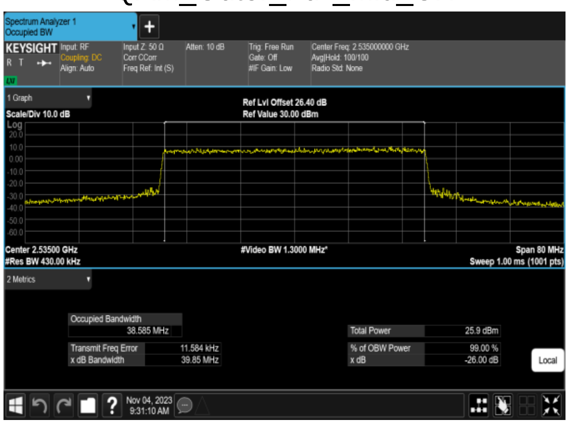
N7(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



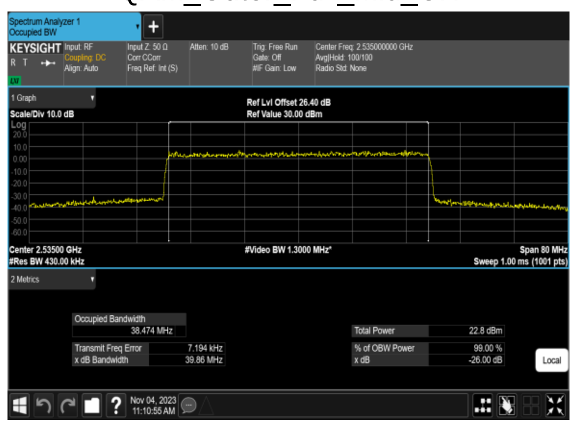
N7(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N7(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



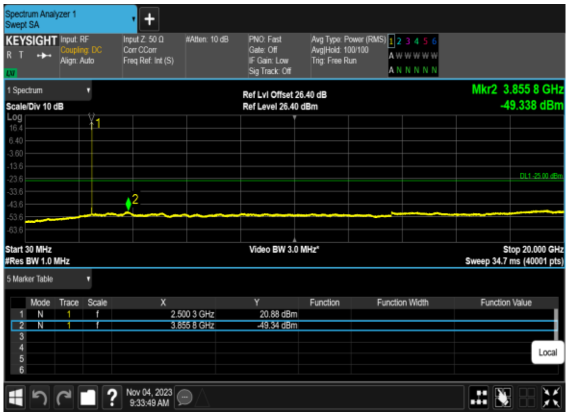
Conducted Spurious Emissions

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	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**

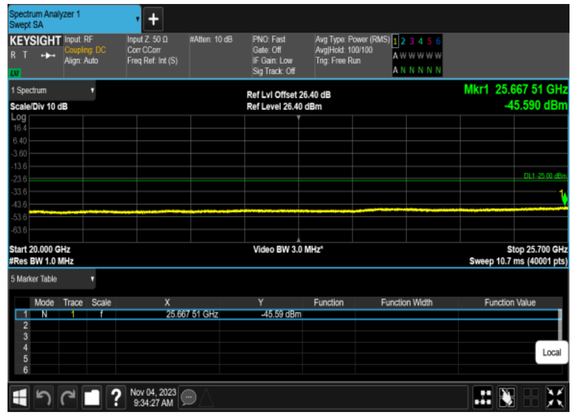
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
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**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	40	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	40	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

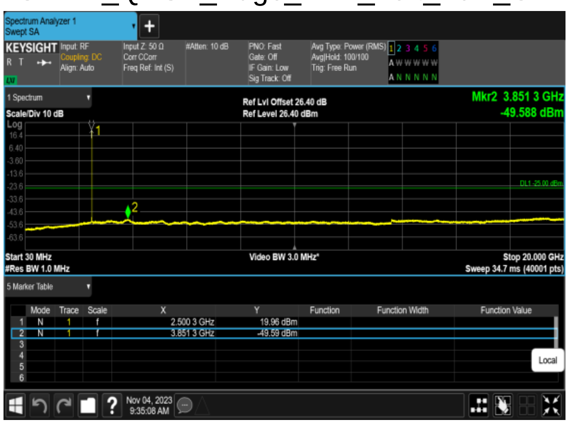
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



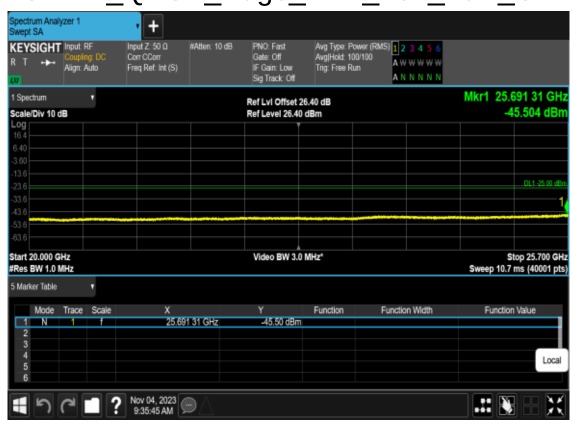
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



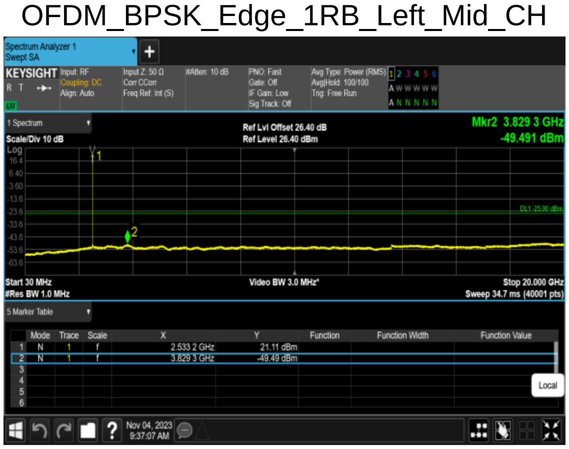
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



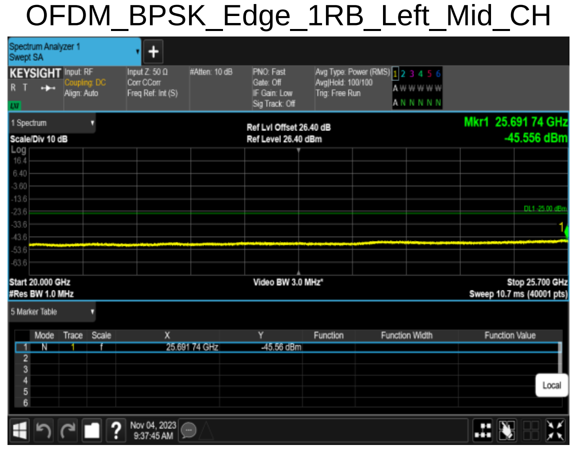
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



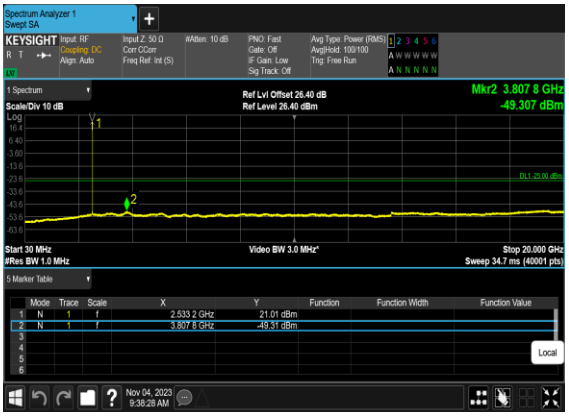
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



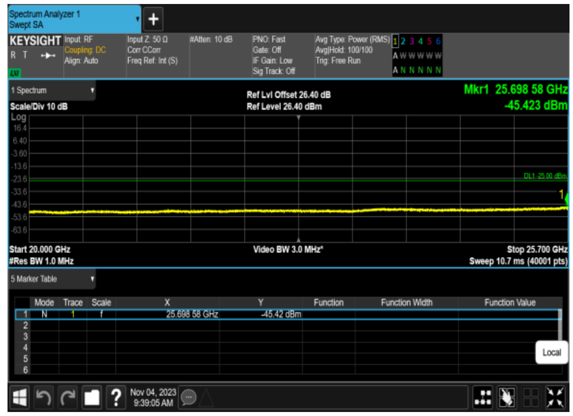
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



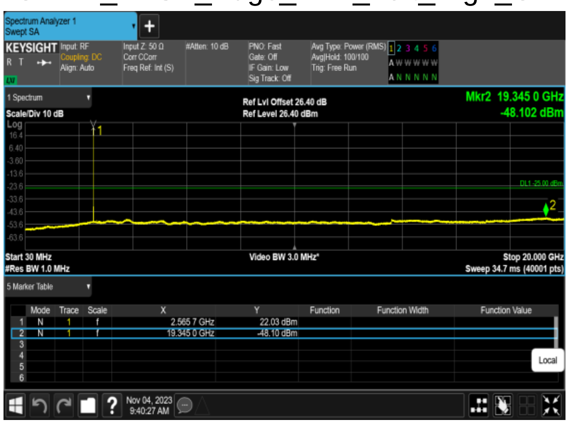
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



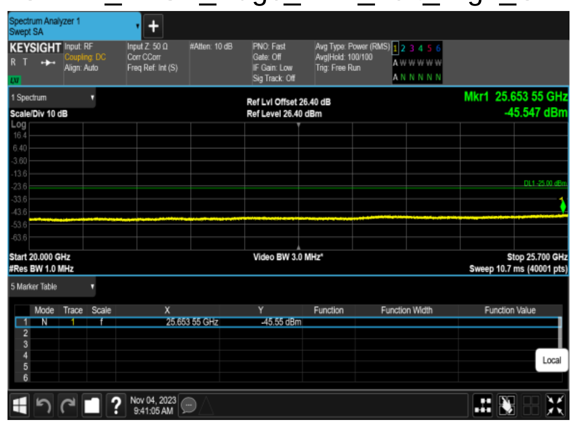
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



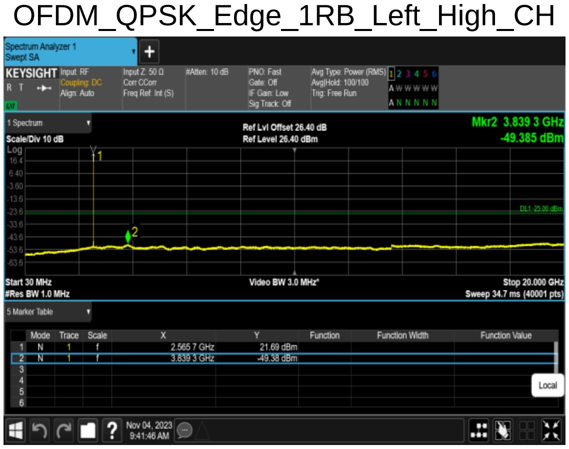
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



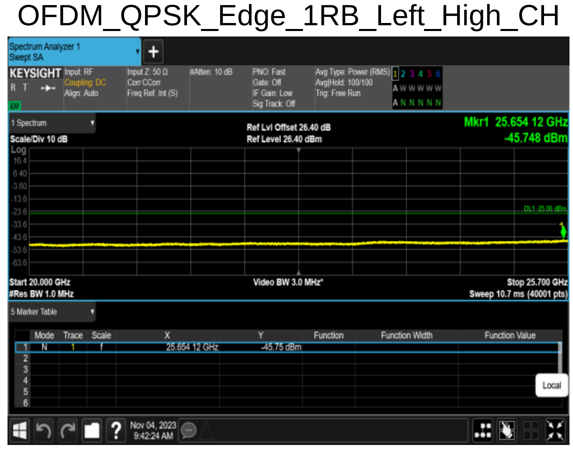
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



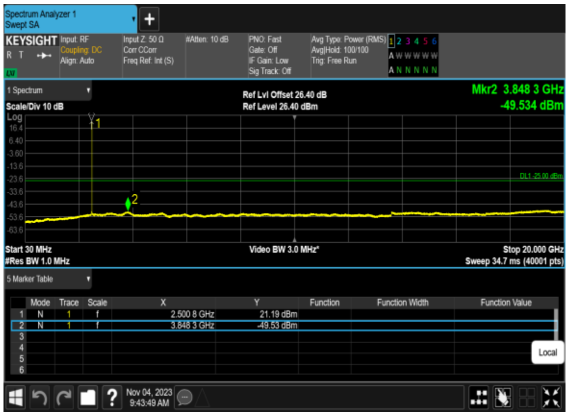
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



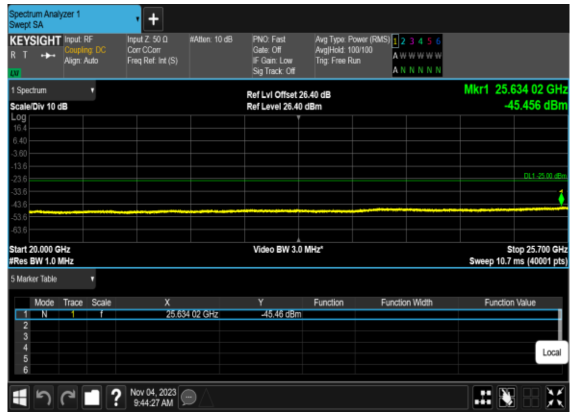
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



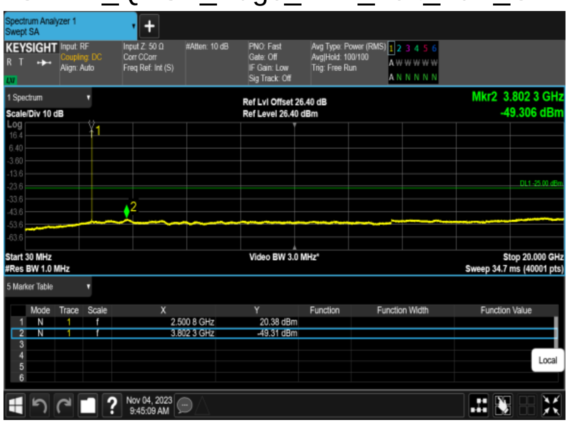
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



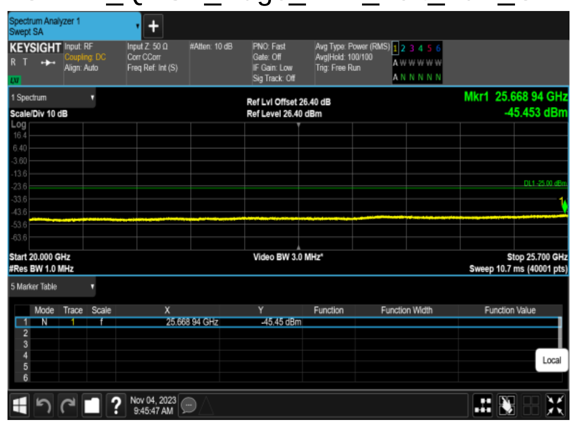
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



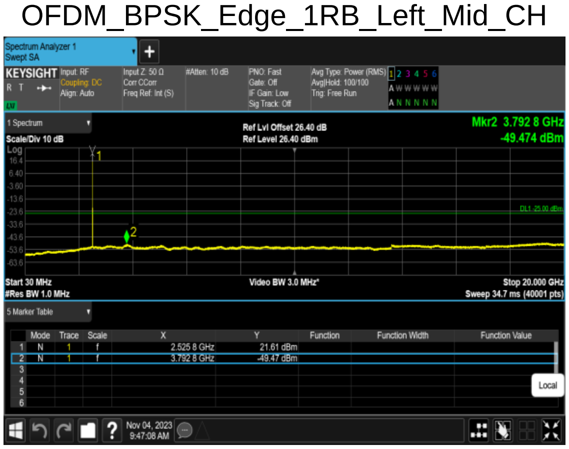
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



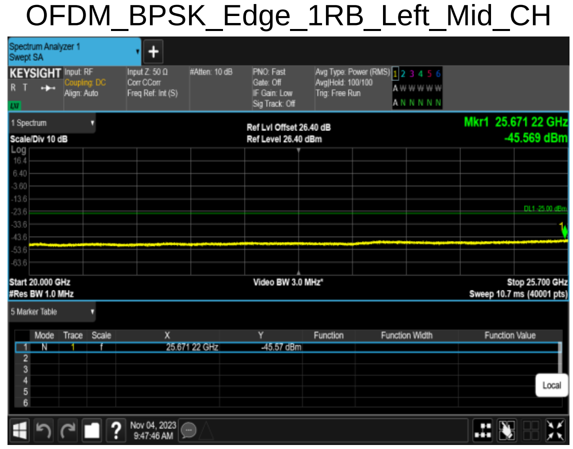
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



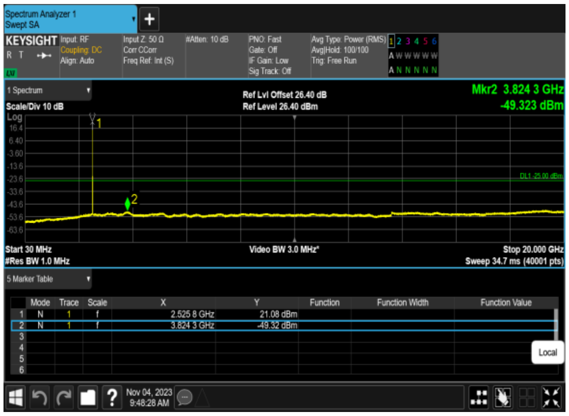
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



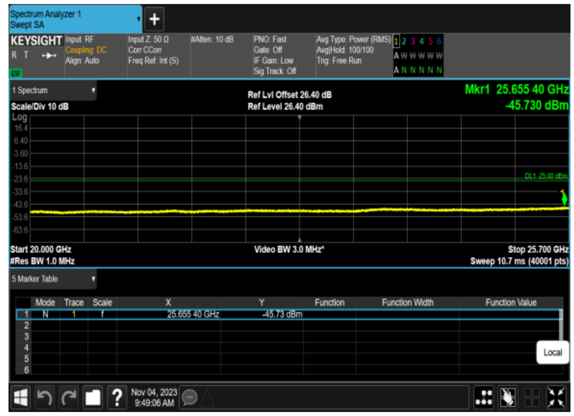
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



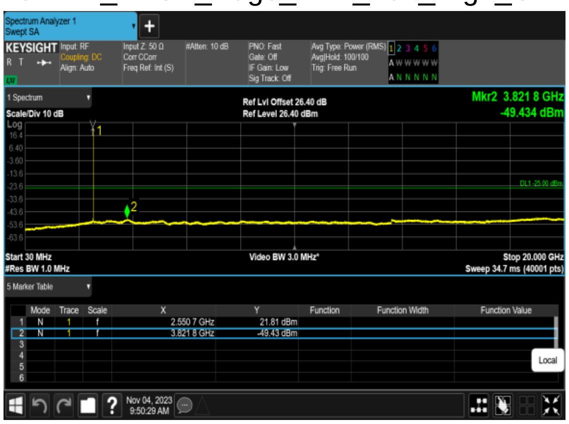
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



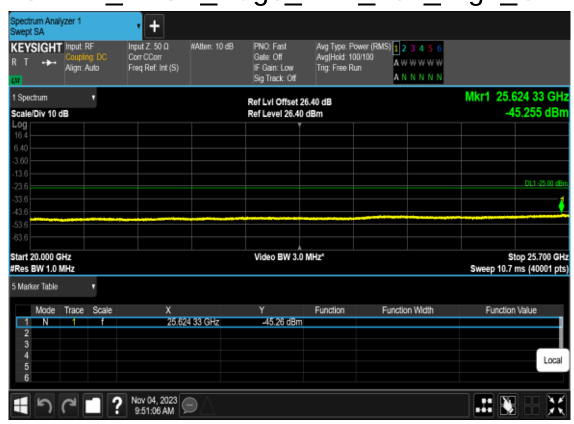
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



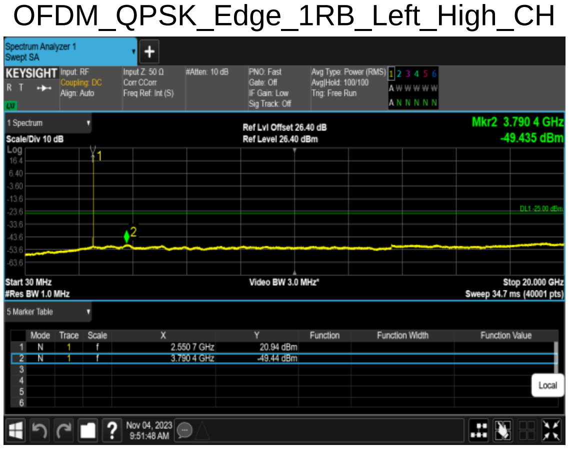
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



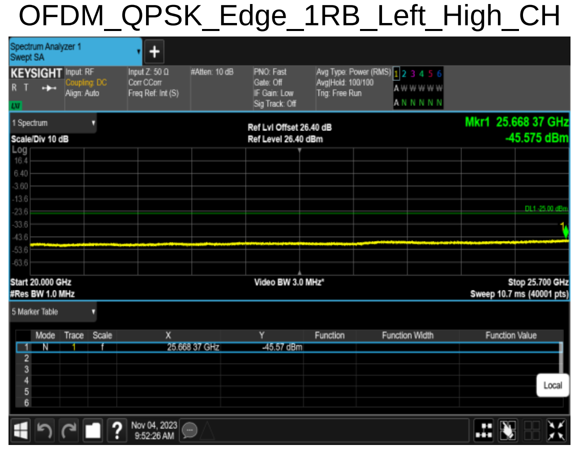
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



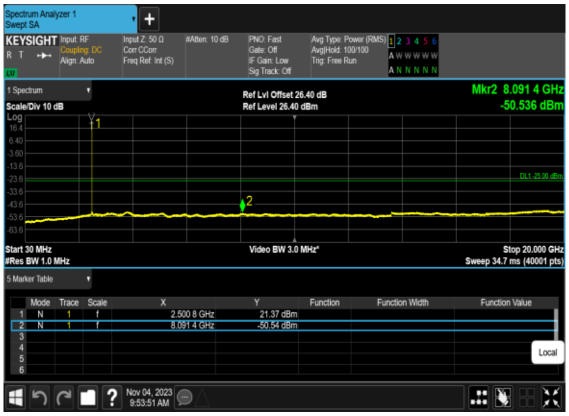
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



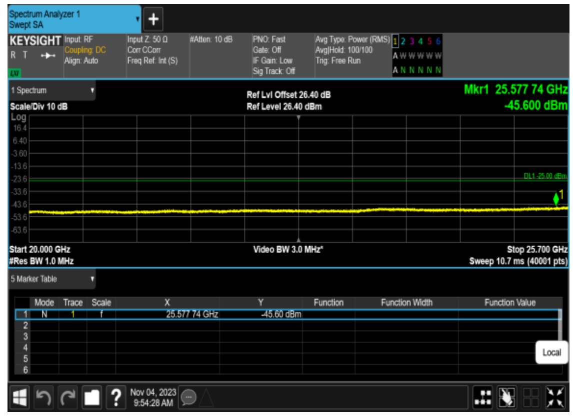
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



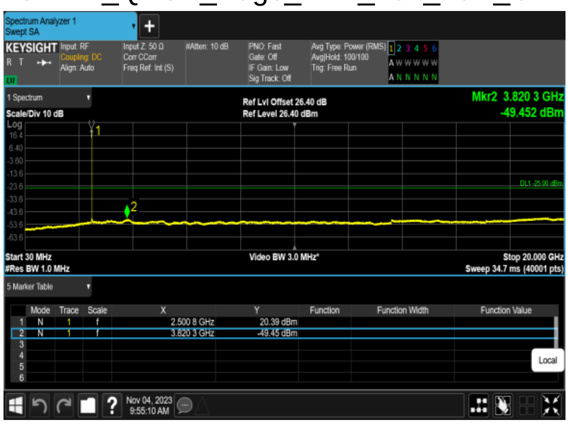
N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



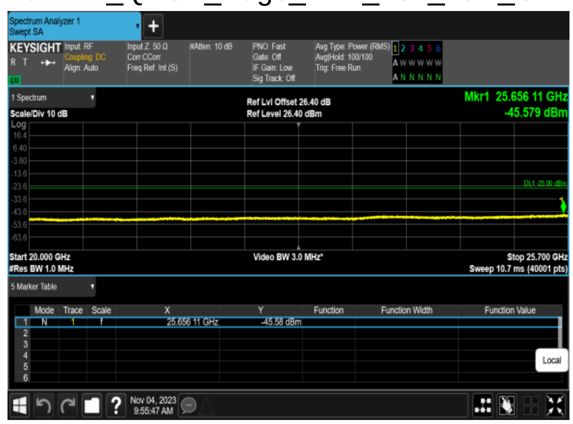
N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



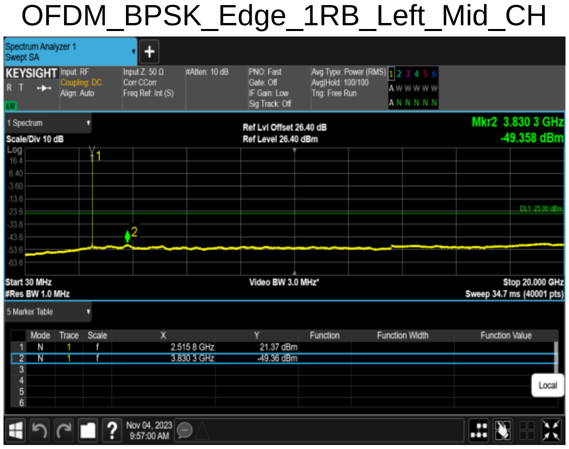
N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



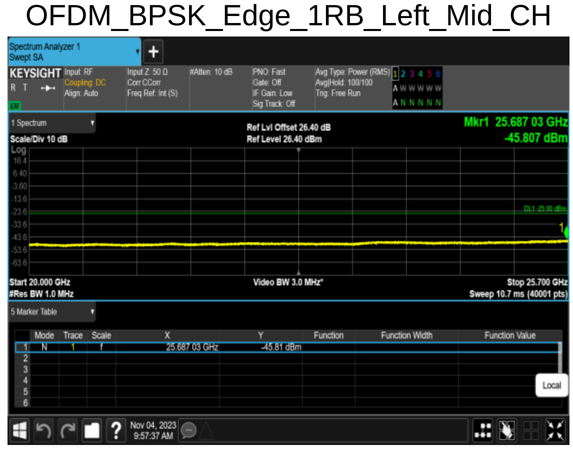
N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



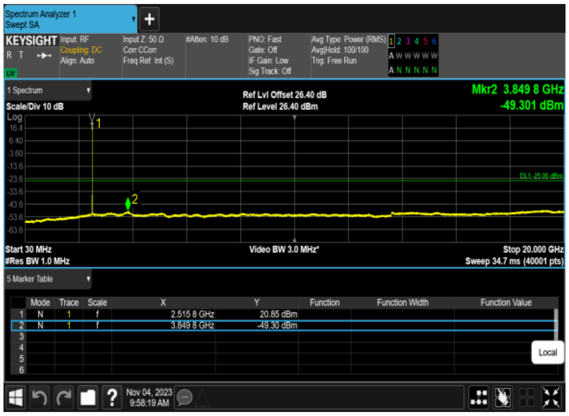
N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



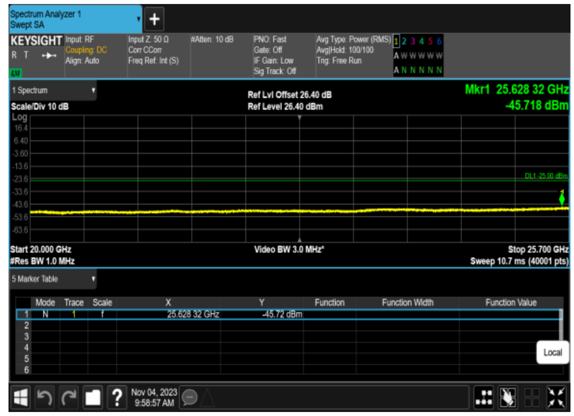
N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



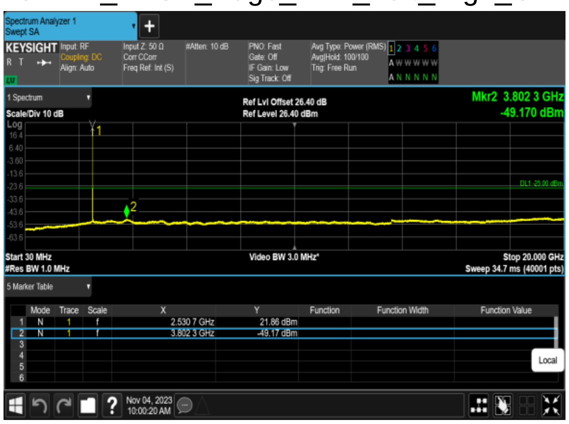
N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



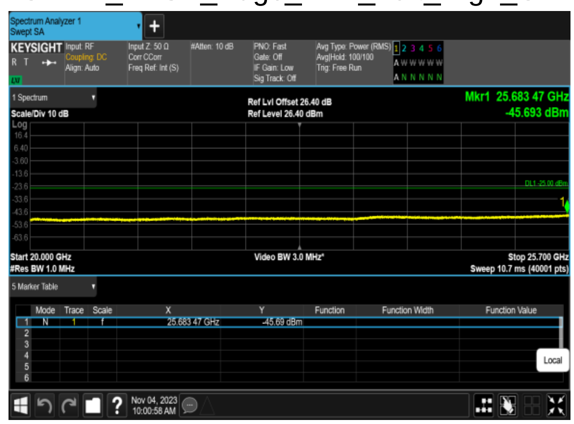
N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



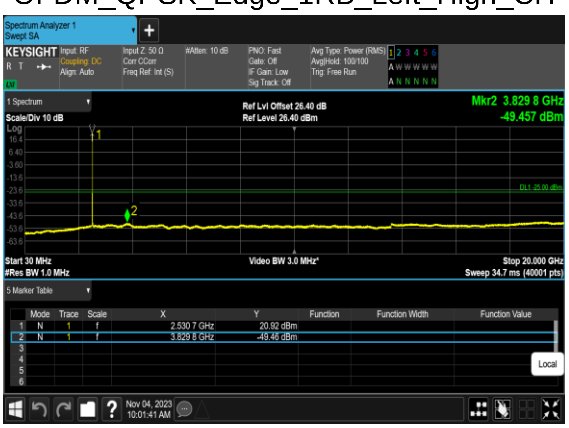
N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



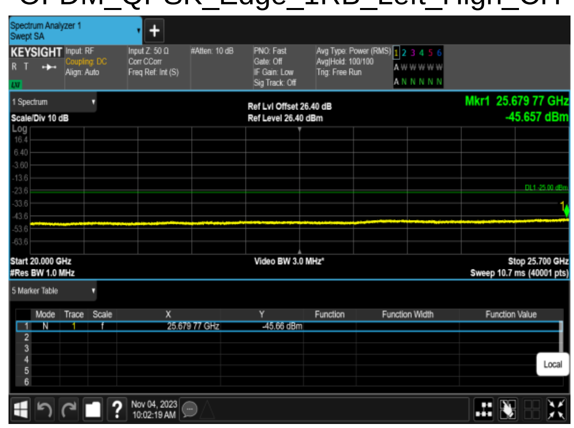
N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



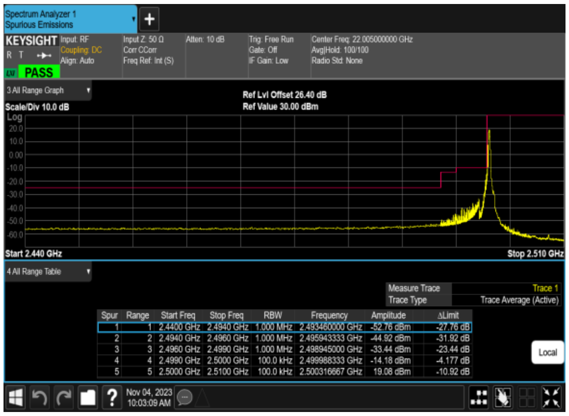
N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



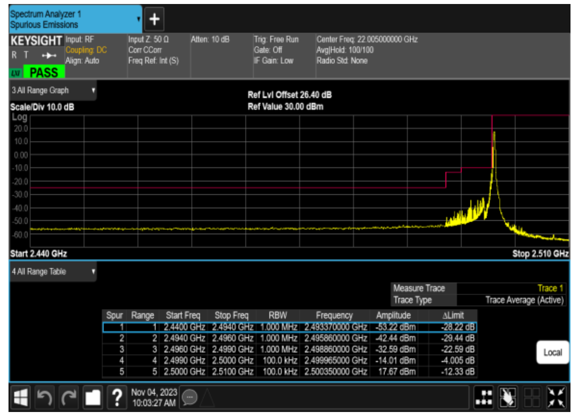
Conducted Band Edge

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	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**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	216@0	see graph	**PASS**

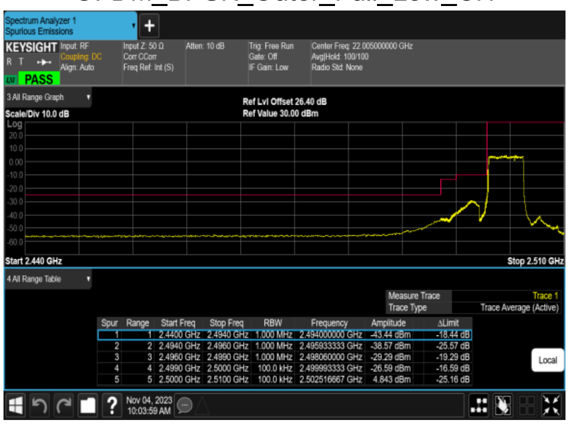
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



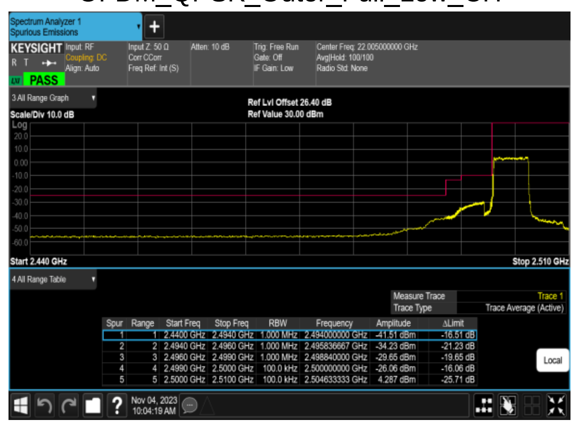
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



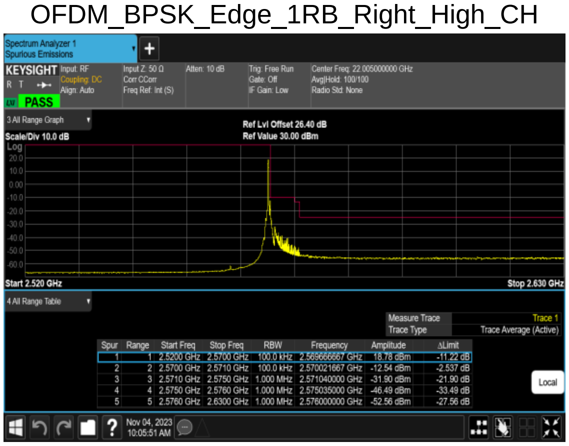
N7(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



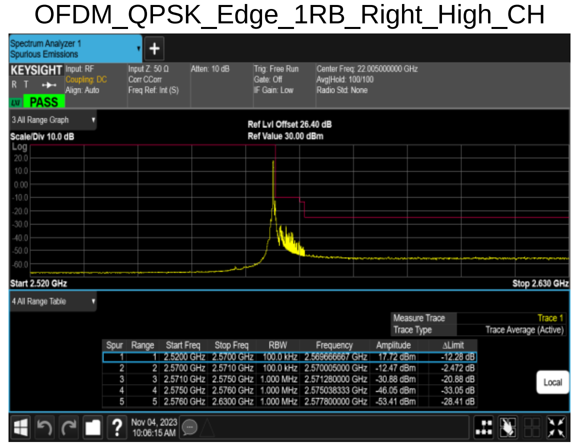
N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



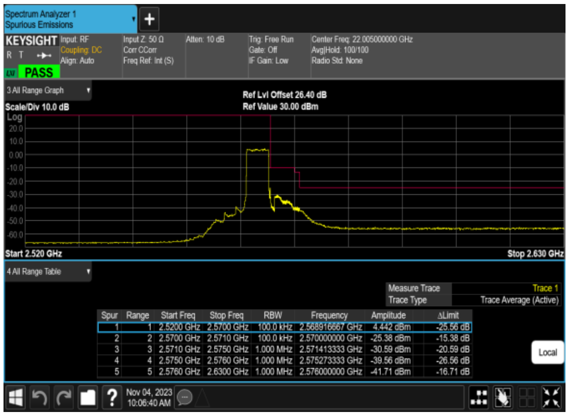
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



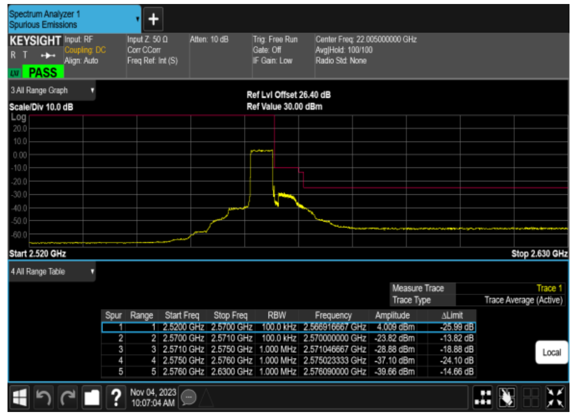
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



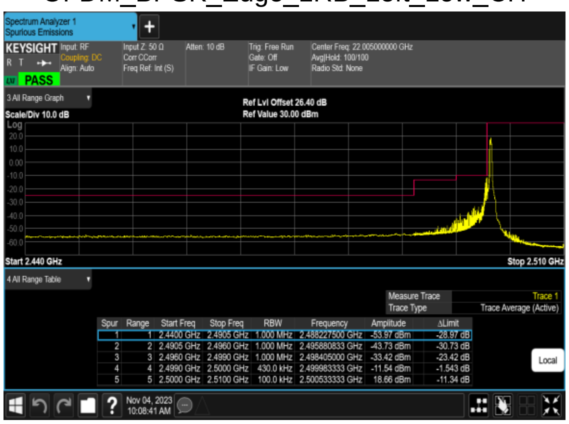
N7(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



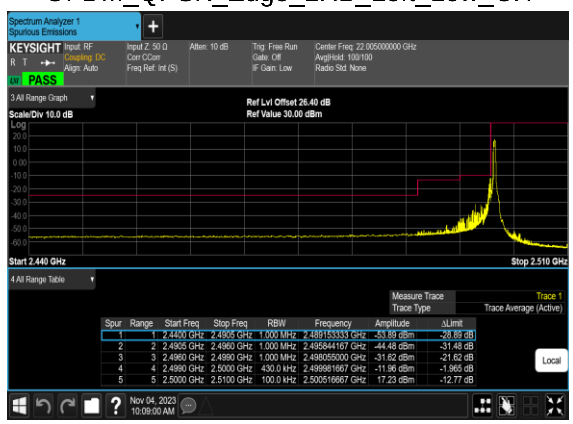
N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



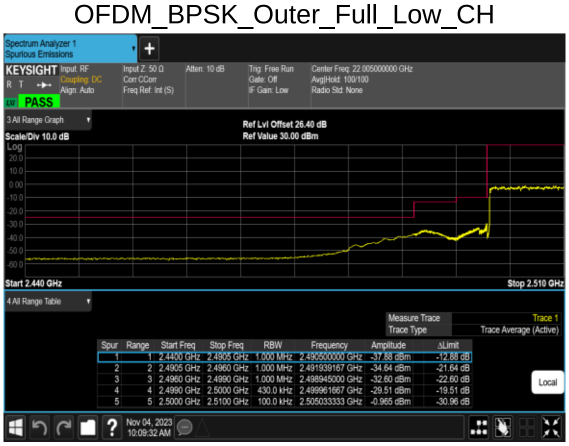
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



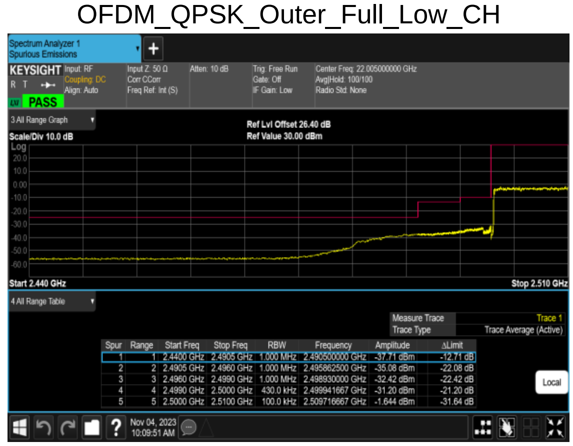
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



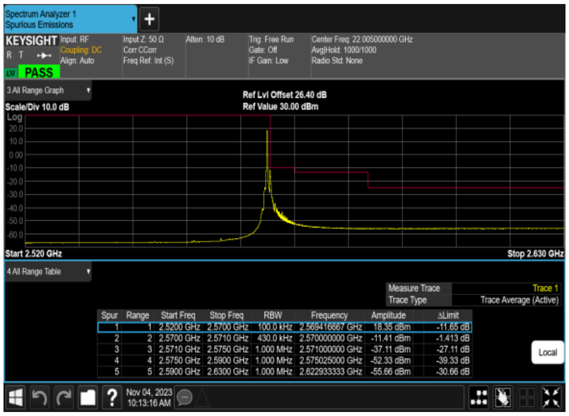
N7(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



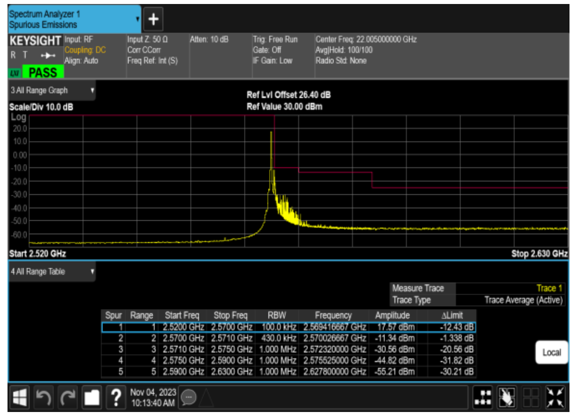
N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



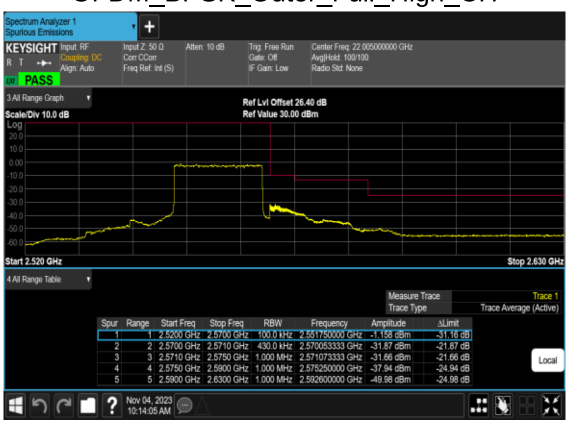
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



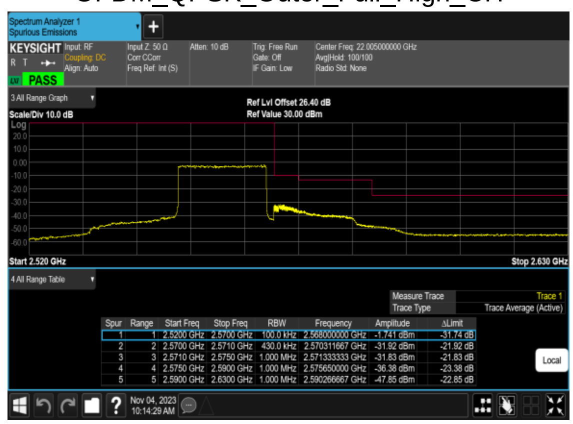
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



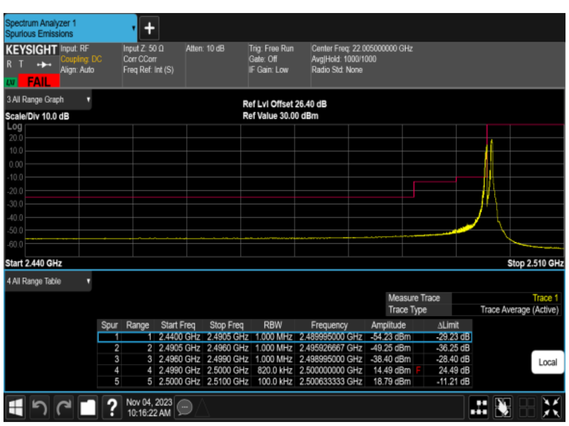
N7(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**