FCC RF Test Report

APPLICANT	:	**OnePlus Technology (Shenzhen) Co., Ltd.**
EQUIPMENT	:	**Mobile Phone**
BRAND NAME	:	**ONEPLUS,**
MODEL NAME	:	**CPH2655**
FCC ID	:	**2ABZ2-OP23895**
STANDARD	:	**47 CFR Part 27**
CLASSIFICATION	:	**PCS Licensed Transmitter Held to Ear (PCE)**
TEST DATE(S)	:	**Aug. 01, 2024 ~ Sep. 20, 2024**

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

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

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG461101J	Rev. 01	Initial issue of report	Sep. 27, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(c)(10)	Effective Radiated Power (5G NR n12)	ERP < 3 Watt		
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n7, n41, n38)	EIRP < 2Watt		
3.5	§24.232(d) §27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(g)	Conducted Band Edge Measurement (5G NR n12)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41, n38)	§27.53(m)(4)		
3.8	§2.1051 §27.53(g)	Conducted Spurious Emission (5G NR n12)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41, n38)	< 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(g)	Radiated Spurious Emission (5G NR n12)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 25.07 dB at 10365.60 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41, n38)	< 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

OnePlus Technology (Shenzhen) Co., Ltd.
18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.
18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	ONEPLUS,
Model Name	CPH2655
FCC ID	2ABZ2-OP23895
IMEI Code	Conducted : 866493070032172/866493070032164 Radiation : 866493070032891/866493070032883
HW Version	11
SW Version	OxygenOS V15.0
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Rx Frequency	5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n12: 729 MHz ~ 746 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Bandwidth	n7 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 35MHz/ 40MHz / 50MHz n12 : 5MHz / 10MHz / 15MHz n38 : 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz n41 : 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 35MHz / 40MHz / 45MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	15kHz for FDD Bands, 30kHz for TDD Bands,

Antenna Gain	**<Ant. 0>:** n7: 1.5 dBi n12: -1.5 dBi n38: 1.5 dBi n41: 2.0 dBi **<Ant. 1>:** n12: -4.0 dBi **<Ant. 5>:** n7: 1.2 dBi n38: 1.2 dBi n41: 1.2 dBi **<Ant. 6>:** n7: 0.5 dBi n38: 0.5 dBi n41: 0.5 dBi **<Ant. 7>:** n7: -0.3 dBi n38: -0.3 dBi n41: -0.3 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, 5G NR n12/n41 for Ant. 0, 5G NR n38/n7 for Ant. 5 and n41_UL MIMO for Ant.(5+7).
2. 5G NR support SA (n7/n38/n41/n12) mode and NSA(n7/n38/n41) mode. According to the maximum power between SA and NSA mode, SA covers NSA mode.
3. 5G NR n38 only support NSA mode on ant 6&7.
4. The device supports two PAs for 5G NR n7/n41 (main PA and other PA for ant 7).
5. 5G NR n41 supports UL MIMO mode, and support CP-OFDM mode only, the two antennas are completely uncorrelated.
6. The device supports HPUE mode for 5G NR n41.
7. For n41 MIMO mode, the conducted BE/Spurious are tested at single antenna port and add 10*log(N_{ANT}) according to KDB 662911 D01.
8. The EN-DC mode combination could be referred to the product spec.
9. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.

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 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	0.1256	4M48G7D	0.1002	4M48W7D
10	704.0~ 711.0	0.1282	9M28G7D	0.0986	9M29W7D
15	706.5 ~ 708.5	0.1321	14M1G7D	0.1009	14M1W7D

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	0.3365	4M48G7D	0.2655	4M49W7D
10	2505.0 ~ 2565.0	0.3508	9M27G7D	0.2704	9M30W7D
15	2507.5 ~ 2562.5	0.3451	14M1G7D	0.2729	14M1W7D
20	2510.0 ~ 2560.0	0.3467	18M9G7D	0.2716	19M0W7D
25	2512.5 ~ 2557.5	0.3508	23M8G7D	0.2748	23M8W7D
30	2515.0 ~ 2555.0	0.3499	28M6G7D	0.2761	28M6W7D
35	2517.5 ~ 2552.5	0.3404	33M6G7D	0.2748	33M7W7D
40	2520.0 ~ 2550.0	0.3451	38M5G7D	0.2723	38M6W7D
50	2525.0 ~ 2545.0	0.3597	48M2G7D	0.2748	48M2W7D

5G NR n38		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2575.0 ~ 2615.0	0.3999	8M58G7D	0.3105	8M58W7D
15	2577.5 ~ 2612.5	0.3972	13M6G7D	0.3069	13M6W7D
20	2580.0 ~ 2610.0	0.3963	18M2G7D	0.3062	18M3W7D
25	2582.5 ~ 2607.5	0.4102	23M2G7D	0.3199	23M3W7D
30	2585.0 ~ 2605.0	0.4130	27M8G7D	0.3221	27M9W7D
40	2590.0 ~ 2600.0	0.4140	37M9G7D	0.3206	37M9W7D

5G NR n41		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.6982	8M58G7D	0.5572	8M58W7D
15	2503.50 ~ 2682.48	0.7031	13M6G7D	0.5284	13M6W7D
20	2506.02 ~ 2679.99	0.6561	18M2G7D	0.5321	18M3W7D
25	2508.50 ~ 2677.5	0.7112	23M2G7D	0.5546	23M3W7D
30	2511.00 ~ 2674.98	0.7129	27M8G7D	0.5470	27M9W7D
35	2513.52 ~ 2672.49	0.6776	32M8G7D	0.5358	32M9W7D
40	2516.01 ~ 2670.00	0.6668	37M9G7D	0.5383	37M9W7D
45	2518.50 ~ 2667.48	0.7079	42M4G7D	0.5572	42M6W7D
50	2521.02 ~ 2664.99	0.6918	47M5G7D	0.5675	47M6W7D
60	2526.00 ~ 2659.98	0.6887	57M8G7D	0.5534	58M3W7D
70	2531.01 ~ 2655.00	0.6699	67M6G7D	0.5598	67M5W7D
80	2536.02 ~ 2649.99	0.7161	77M6G7D	0.5508	77M6W7D
90	2541.00 ~ 2644.98	0.7063	87M6G7D	0.5546	87M6W7D
100	2546.01 ~ 2640.00	0.7534	97M6G7D	0.6039	97M7W7D

5G NR n41 UL MIMO		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.4710	8M58G7D	0.4236	8M57W7D
15	2503.50 ~ 2682.48	0.4710	13M6G7D	0.4305	13M6W7D
20	2506.02 ~ 2679.99	0.4753	18M2G7D	0.4256	18M3W7D
25	2508.50 ~ 2677.5	0.5105	23M2G7D	0.4539	23M3W7D
30	2511.00 ~ 2674.98	0.5047	27M9G7D	0.4519	27M9W7D
35	2513.52 ~ 2672.49	0.4898	32M9G7D	0.4406	32M9W7D
40	2516.01 ~ 2670.00	0.4932	37M8G7D	0.4385	37M9W7D
45	2518.50 ~ 2667.48	0.5105	42M4G7D	0.4498	42M6W7D
50	2521.02 ~ 2664.99	0.5140	47M4G7D	0.4539	47M6W7D
60	2526.00 ~ 2659.98	0.5000	57M8G7D	0.4477	57M8W7D
70	2531.01 ~ 2655.00	0.5164	67M6G7D	0.4560	67M6W7D
80	2536.02 ~ 2649.99	0.5058	77M5G7D	0.4539	77M7W7D
90	2541.00 ~ 2644.98	0.5164	87M5G7D	0.4603	87M6W7D
100	2546.01 ~ 2640.00	0.5358	97M6G7D	0.4742	97M6W7D

Note:

1. 5G NR n41 overlaps the entire frequency range of 5G NR n38. Therefore, the test results provided in this report covers 5G NR 41 as well as 5G NR n38.
2. All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

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.**
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- 47 CFR Part 27
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X/Z 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.

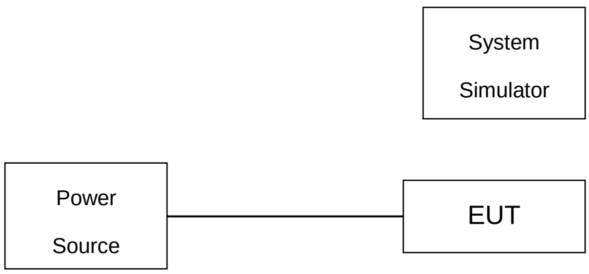
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	35	40	45	50	60	70~90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n7	v	v	v	v	v	v	v	v	-	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n38	-	v	v	v	v	v	-	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n7				v					-		-	-	-	v	v					v		v	
	n12		v		-	-	-	-	-	-	-	-	-	-	v	v					v		v	
	n41	-			v										v	v					v		v	
26dB and 99% Bandwidth	n7	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	
	n41	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v		v		v	
Conducted Band Edge	n7	v				v				-	v	-	-	-	v	v				v	v	v		v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n41	-	v								v			v	v	v				v	v	v		v
Conducted Spurious Emission	n7	v				v			v	-	v	-	-	-	v	v				v		v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v
	n41	-	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	35	40	45	50	60	70~90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H
Frequency Stability	n7				v					-		-	-	-		v					v		v	
	n12		v		-	-	-	-	-	-	-	-	-	-		v					v		v	
	n41	-			v											v					v		v	
E.R.P / E.I.R.P	n7	v	v	v	v	v	v	v	v	-	v	-	-	-	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n38	-	v	v	v	v	v	-	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n7	Worst Case																				v	v	v
	n12	Worst Case																				v	v	v
	n41	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 = 8.0V ; Low Voltage =7.2V. ; High Voltage =9.0V

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

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

Example :

Offset(dB) = RF cable loss(dB).

=8.6 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	505000	507000	509000
	Frequency	2525	2535	2545
40	Channel	504000	507000	510000
	Frequency	2520	2535	2550
35	Channel	503500	507000	501500
	Frequency	2517.5	2535	2552.5
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 n38 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
40	Channel	518000	519000	520000
	Frequency	2590	2595	2600
30	Channel	517000	519000	521000
	Frequency	2585	2595	2605
25	Channel	516500	519000	521500
	Frequency	2582.5	2595	2607.5
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610
15	Channel	515500	519000	522500
	Frequency	2577.5	2595	2612.5
10	Channel	515000	519000	523000
	Frequency	2575	2595	2615

5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
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
25	Channel	501702	518598	535500
	Frequency	2508.51	2592.99	2677.50
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

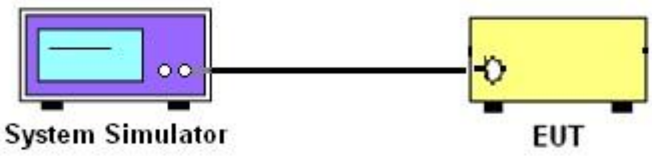
3 Conducted Test Items

3.1 Measuring Instruments

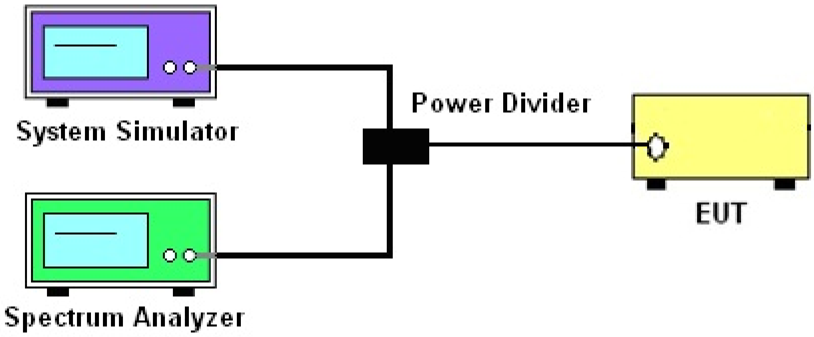
See list of measuring instruments of this test report.

3.2 Test Setup

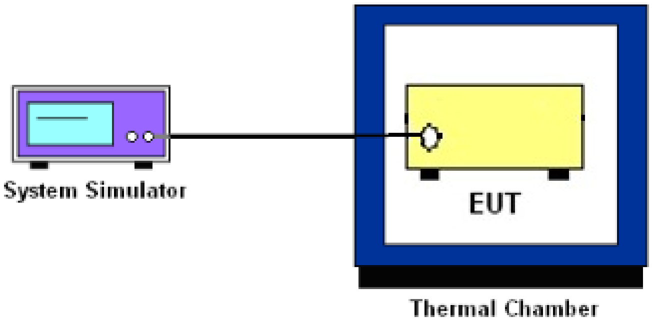
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and 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.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n7, n38, n41.

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T - L_C$, ERP = EIRP -2.15, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Determine the "-26 dB down amplitude" as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

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

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For 5G NR n7/n38/n41:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 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/n38/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.

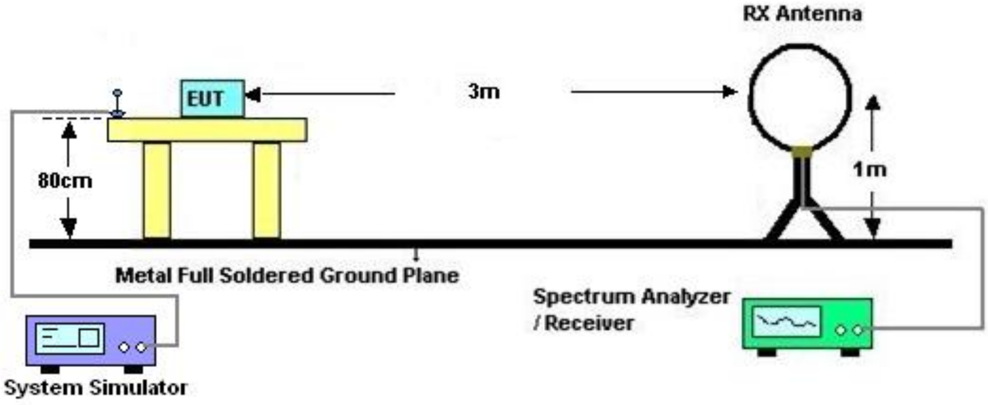
4 Radiated Test Items

4.1 Measuring Instruments

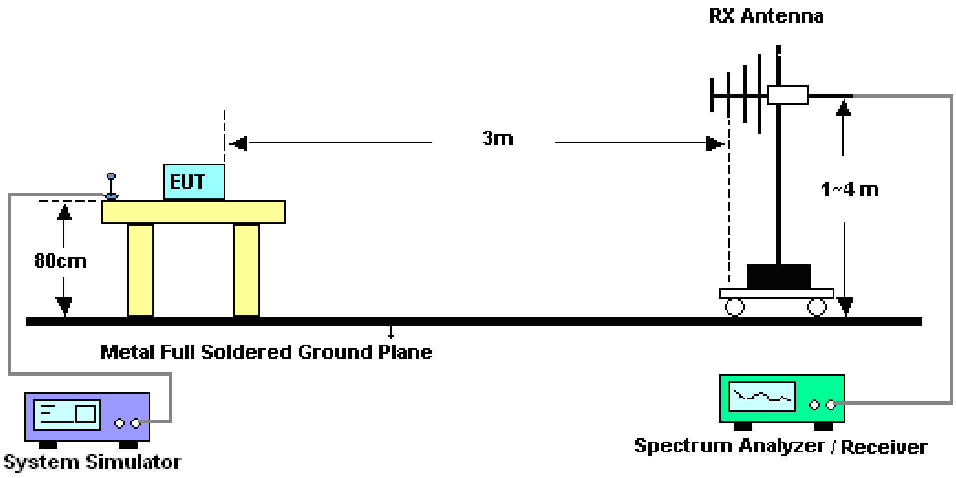
See list of measuring instruments of this test report.

4.2 Test Setup

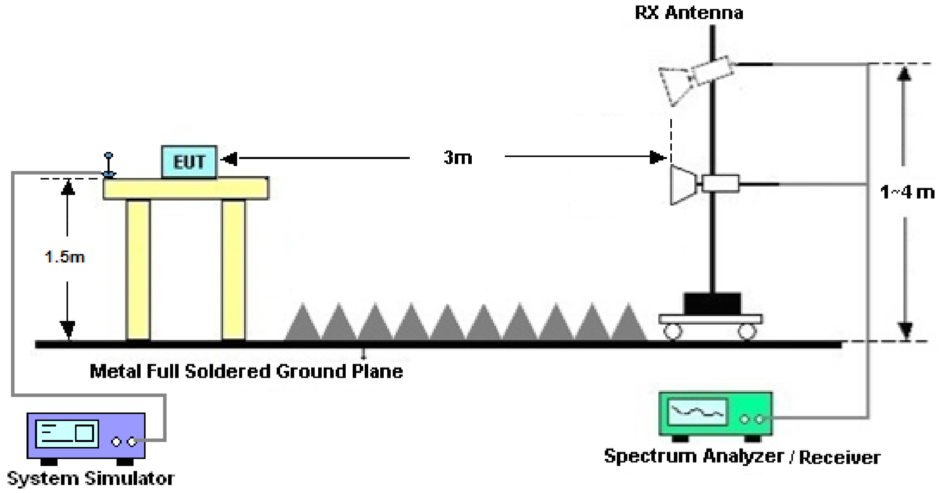
4.2.1 For radiated test below 30MHz



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/n38/n41

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    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/n38/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	Apr. 09, 2024	Aug. 01, 2024~ Sep. 20, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 16, 2023	Aug. 01, 2024~ Sep. 20, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Aug. 01, 2024~ Sep. 20, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Aug. 01, 2024~ Sep. 20, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Aug. 02, 2024~ Aug. 06, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Aug. 02, 2024~ Aug. 06, 2024	Dec. 28, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2023	Aug. 02, 2024~ Aug. 06, 2024	Oct. 17, 2024	Radiation (03CH01-SZ
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Aug. 02, 2024~ Aug. 06, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Aug. 02, 2024~ Aug. 06, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Aug. 02, 2024~ Aug. 06, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Aug. 02, 2024~ Aug. 06, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Aug. 02, 2024~ Aug. 06, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Aug. 02, 2024~ Aug. 06, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 18, 2023	Aug. 02, 2024~ Aug. 06, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 02, 2024~ Aug. 06, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 02, 2024~ Aug. 06, 2024	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.48 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02 dB

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zhen	**Temperature :**	22~23℃
		Relative Humidity :	40~42%

TEL : +86-755-8637-9589
FAX : +86-755-8637-9595

Software Version: 23.06.1602

FR1 N7-SCS 15k

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=1.2dB

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@1	23.81	25.01	0.3170
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	22.8	24	0.2512
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@1	24.07	25.27	0.3365
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.04	24.24	0.2655
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@1	24.04	25.24	0.3342
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	23.03	24.23	0.2649
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@1	24.08	25.28	0.3373
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@1	22.86	24.06	0.2547
7	15	10	507000	2535	DFT-s-OFDM QPSK	1@1	24.23	25.43	0.3491
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.12	24.32	0.2704
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@1	24.25	25.45	0.3508
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@1	23.11	24.31	0.2698
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@1	23.88	25.08	0.3221
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	22.88	24.08	0.2559
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@1	24.18	25.38	0.3451
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.16	24.36	0.2729
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@1	24.01	25.21	0.3319
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	23.13	24.33	0.2710
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@1	24.01	25.21	0.3319
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@1	22.83	24.03	0.2529
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@1	24.2	25.4	0.3467
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.03	24.23	0.2649
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@1	24.18	25.38	0.3451
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@1	23.14	24.34	0.2716
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@1	24.06	25.26	0.3357
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	1@1	22.92	24.12	0.2582
7	15	25	507000	2535	DFT-s-OFDM QPSK	1@1	24.24	25.44	0.3499
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.18	24.38	0.2742
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@1	24.25	25.45	0.3508
7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	1@1	23.19	24.39	0.2748
7	15	30	503000	2515	DFT-s-OFDM QPSK	1@1	24.12	25.32	0.3404
7	15	30	503000	2515	DFT-s-OFDM 16 QAM	1@1	22.97	24.17	0.2612
7	15	30	507000	2535	DFT-s-OFDM QPSK	1@1	24.24	25.44	0.3499

TEL : +86-755-8637-9589
FAX : +86-755-8637-9595

7	15	30	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.17	24.37	0.2735
7	15	30	511000	2555	DFT-s-OFDM QPSK	1@1	24.22	25.42	0.3483
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	1@1	23.21	24.41	0.2761
7	15	35	503500	2517.5	DFT-s-OFDM QPSK	1@1	23.96	25.16	0.3281
7	15	35	503500	2517.5	DFT-s-OFDM 16 QAM	1@1	22.87	24.07	0.2553
7	15	35	507000	2535	DFT-s-OFDM QPSK	1@1	24.07	25.27	0.3365
7	15	35	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.1	24.3	0.2692
7	15	35	501500	2552.5	DFT-s-OFDM QPSK	1@1	24.12	25.32	0.3404
7	15	35	501500	2552.5	DFT-s-OFDM 16 QAM	1@1	23.19	24.39	0.2748
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@1	24	25.2	0.3311
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@1	22.93	24.13	0.2588
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@1	24.15	25.35	0.3428
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.15	24.35	0.2723
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@1	24.18	25.38	0.3451
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@1	23.14	24.34	0.2716
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	135@67	24.16	25.36	0.3436
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	1@1	24.09	25.29	0.3381
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	1@268	23.95	25.15	0.3273
7	15	50	505000	2525	DFT-s-OFDM QPSK	135@67	24.2	25.4	0.3467
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@1	24.1	25.3	0.3388
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@268	23.87	25.07	0.3214
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	135@67	23.05	24.25	0.2661
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@1	23.16	24.36	0.2729
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@268	22.91	24.11	0.2576
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	135@67	21.54	22.74	0.1879
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@1	21.64	22.84	0.1923
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@268	21.42	22.62	0.1828
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	135@67	19.56	20.76	0.1191
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@1	19.14	20.34	0.1081
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@268	19.06	20.26	0.1062
7	15	50	505000	2525	CP-OFDM QPSK	135@67	22.68	23.88	0.2443
7	15	50	505000	2525	CP-OFDM QPSK	1@1	22.58	23.78	0.2388
7	15	50	505000	2525	CP-OFDM QPSK	1@268	22.6	23.8	0.2399
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	135@67	24.1	25.3	0.3388
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	24.18	25.38	0.3451
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	1@268	23.8	25	0.3162
7	15	50	507000	2535	DFT-s-OFDM QPSK	135@67	24.12	25.32	0.3404
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@1	24.22	25.42	0.3483
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@268	23.84	25.04	0.3192
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	135@67	23.05	24.25	0.2661

7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@1	23.17	24.37	0.2735
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@268	22.76	23.96	0.2489
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	135@67	21.53	22.73	0.1875
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@1	21.67	22.87	0.1936
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@268	21.29	22.49	0.1774
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	135@67	19.45	20.65	0.1161
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@1	19.3	20.5	0.1122
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@268	18.89	20.09	0.1021
7	15	50	507000	2535	CP-OFDM QPSK	135@67	22.72	23.92	0.2466
7	15	50	507000	2535	CP-OFDM QPSK	1@1	22.93	24.13	0.2588
7	15	50	507000	2535	CP-OFDM QPSK	1@268	22.44	23.64	0.2312
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	135@67	24.11	25.31	0.3396
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	1@1	24.21	25.41	0.3475
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	1@268	23.83	25.03	0.3184
7	15	50	509000	2545	DFT-s-OFDM QPSK	135@67	24.07	25.27	0.3365
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@1	24.36	25.56	0.3597
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@268	23.72	24.92	0.3105
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	135@67	22.92	24.12	0.2582
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@1	23.19	24.39	0.2748
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@268	22.66	23.86	0.2432
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	135@67	21.46	22.66	0.1845
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@1	21.63	22.83	0.1919
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@268	21.19	22.39	0.1734
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	135@67	19.34	20.54	0.1132
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@1	19.24	20.44	0.1107
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@268	18.79	19.99	0.0998
7	15	50	509000	2545	CP-OFDM QPSK	135@67	22.56	23.76	0.2377
7	15	50	509000	2545	CP-OFDM QPSK	1@1	22.84	24.04	0.2535
7	15	50	509000	2545	CP-OFDM QPSK	1@268	22.47	23.67	0.2328

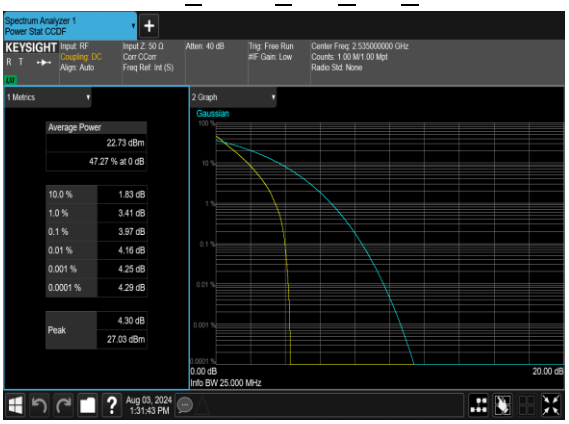
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0037	**PASS**	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0024	**PASS**	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0047	**PASS**	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0045	**PASS**	-30℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0033	**PASS**	-20℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0027	**PASS**	-10℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0030	**PASS**	0℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0031	**PASS**	10℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0037	**PASS**	20℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0070	**PASS**	30℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0045	**PASS**	40℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0056	**PASS**	50℃

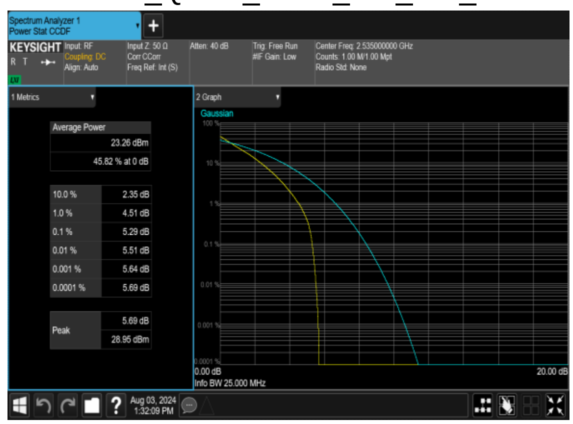
Peak to Average Ratio

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	3.97	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	5.29	13	**PASS**

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



N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



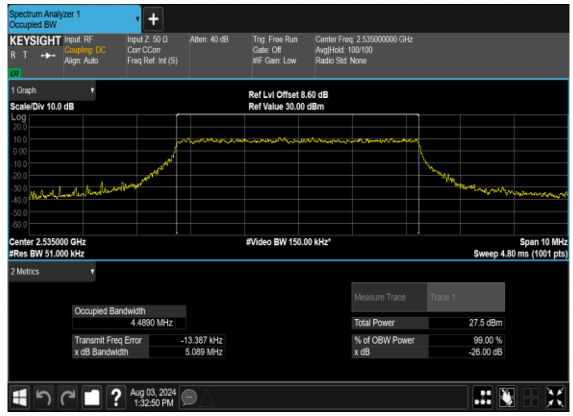
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4628	4.989
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.489	5.089
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4599	5.024
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.4825	5.051
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2632	9.916
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2816	10.02
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2628	9.982
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.2741	9.874
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.084	14.81
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.094	14.91
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.088	14.97
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.063	14.9
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.895	19.9
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.914	19.89
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.856	19.87
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.91	19.85
7	15	25	507000	2535.0	CP-OFDM QPSK	133@0	23.7	24.77
7	15	25	507000	2535.0	CP-OFDM 16 QAM	133@0	23.747	24.82
7	15	25	507000	2535.0	CP-OFDM 64 QAM	133@0	23.773	24.77
7	15	25	507000	2535.0	CP-OFDM 256 QAM	133@0	23.789	24.73
7	15	30	507000	2535.0	CP-OFDM QPSK	160@0	28.519	29.71
7	15	30	507000	2535.0	CP-OFDM 16 QAM	160@0	28.52	29.54

7	15	30	507000	2535.0	CP-OFDM 64 QAM	160@0	28.501	29.61
7	15	30	507000	2535.0	CP-OFDM 256 QAM	160@0	28.516	29.65
7	15	35	507000	2535.0	CP-OFDM QPSK	188@0	33.483	34.77
7	15	35	507000	2535.0	CP-OFDM 16 QAM	188@0	33.473	34.69
7	15	35	507000	2535.0	CP-OFDM 64 QAM	188@0	33.583	34.81
7	15	35	507000	2535.0	CP-OFDM 256 QAM	188@0	33.506	34.86
7	15	40	507000	2535.0	CP-OFDM QPSK	216@0	38.514	40.08
7	15	40	507000	2535.0	CP-OFDM 16 QAM	216@0	38.498	39.88
7	15	40	507000	2535.0	CP-OFDM 64 QAM	216@0	38.539	39.87
7	15	40	507000	2535.0	CP-OFDM 256 QAM	216@0	38.541	39.87
7	15	50	507000	2535.0	CP-OFDM QPSK	270@0	48.158	49.79
7	15	50	507000	2535.0	CP-OFDM 16 QAM	270@0	48.163	49.72
7	15	50	507000	2535.0	CP-OFDM 64 QAM	270@0	48.137	49.78
7	15	50	507000	2535.0	CP-OFDM 256 QAM	270@0	48.156	49.86

N7(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

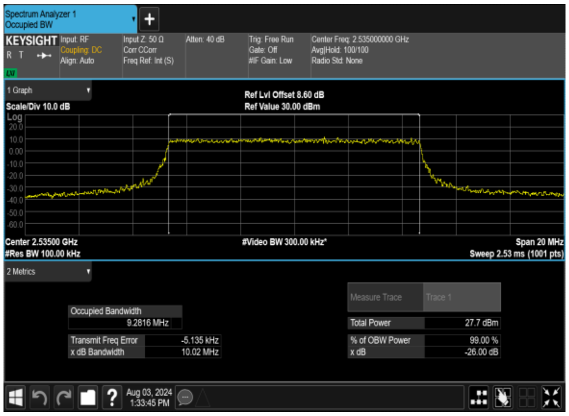


N7(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

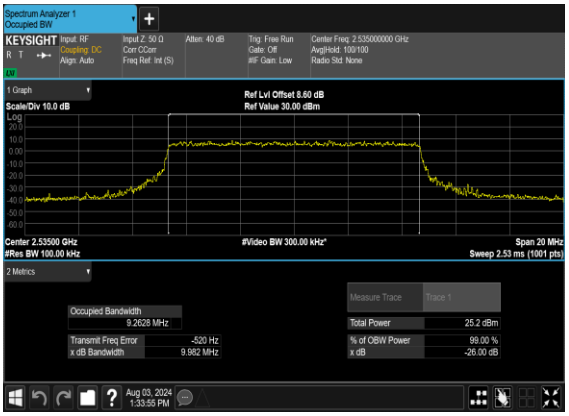
N7(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N7(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

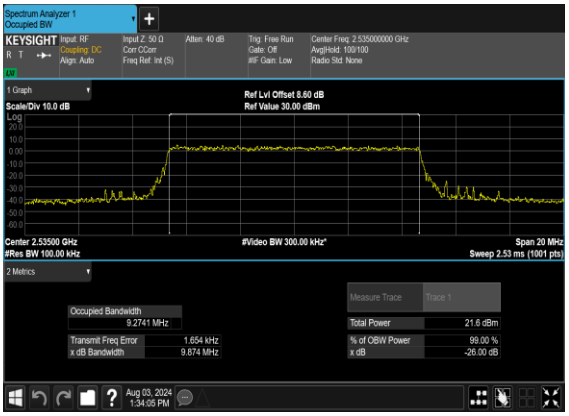
N7(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



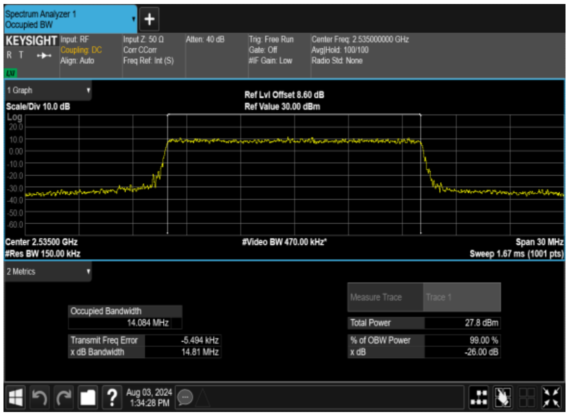
N7(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



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

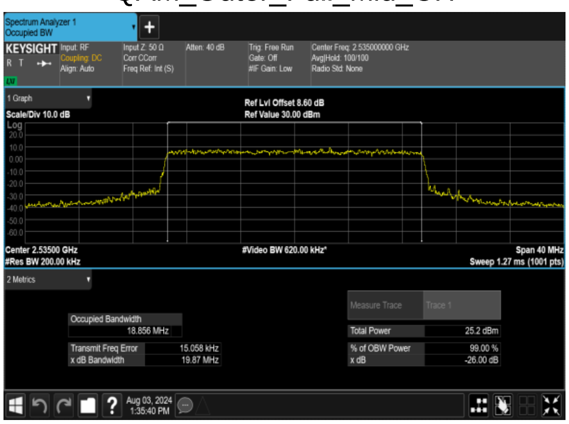
N7(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N7(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

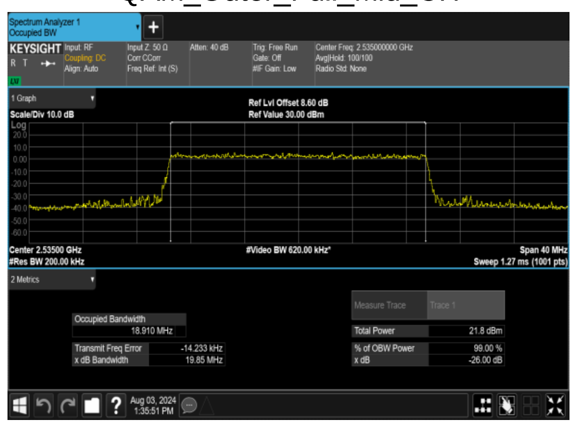
N7(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N7(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



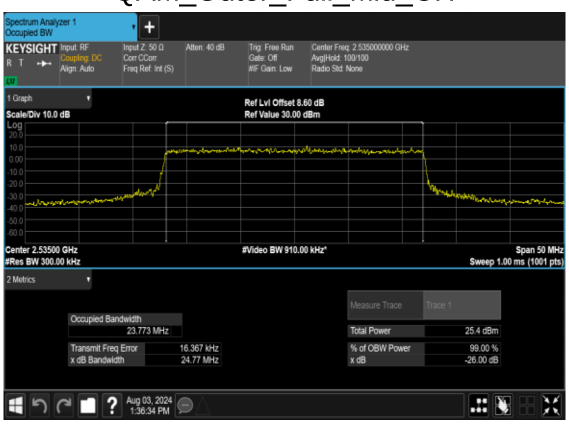
N7(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



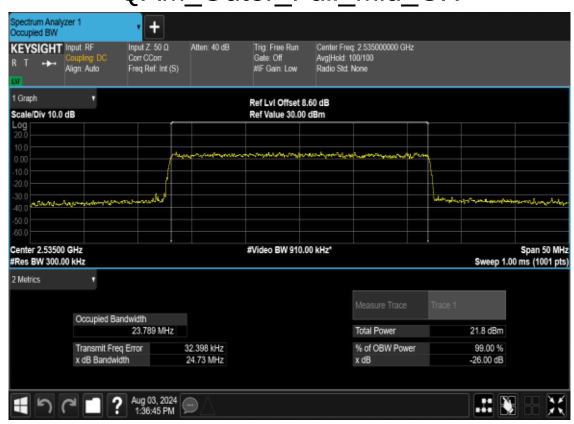
N7(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N7(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



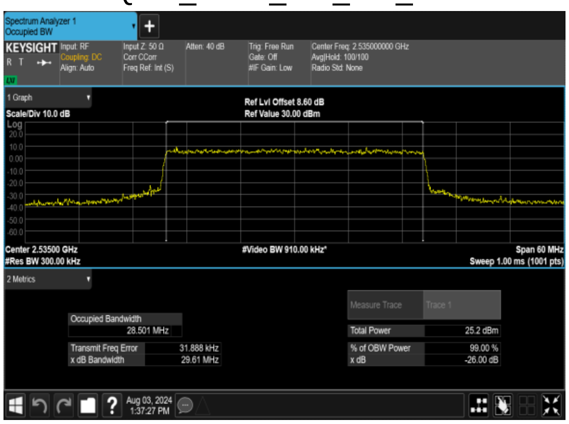
N7(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



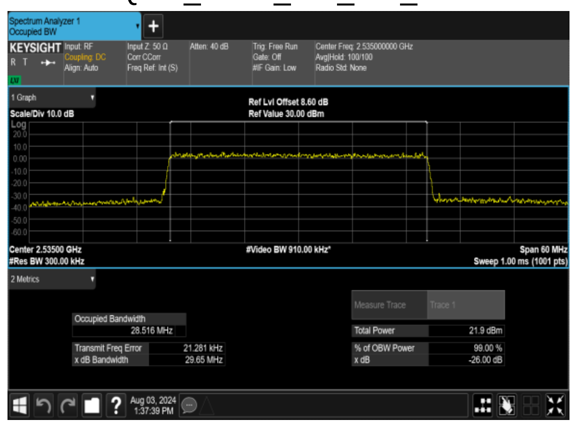
N7(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

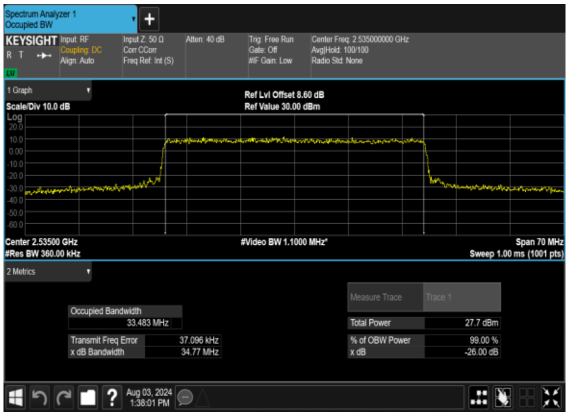
N7(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



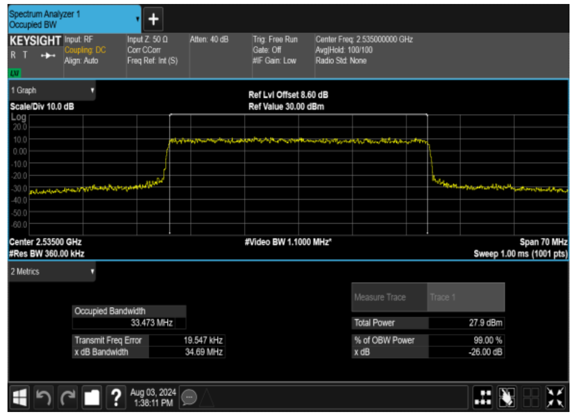
N7(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



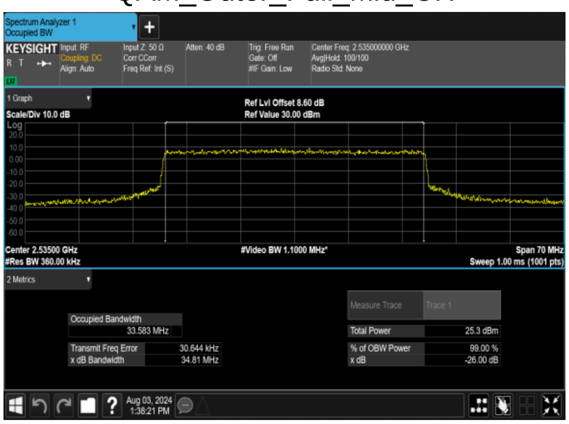
N7(35M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



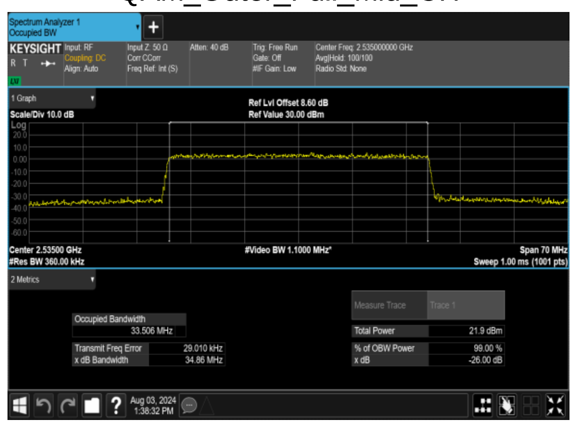
N7(35M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



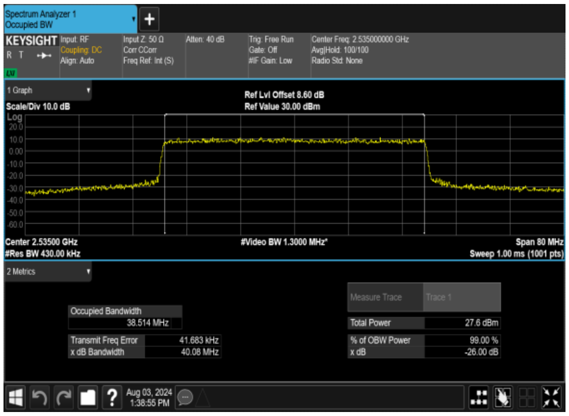
N7(35M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(35M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

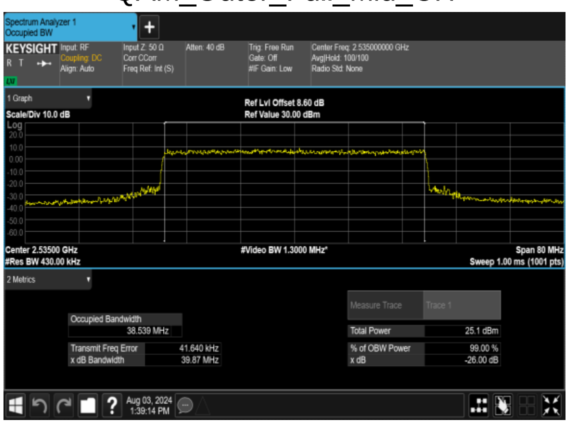


N7(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

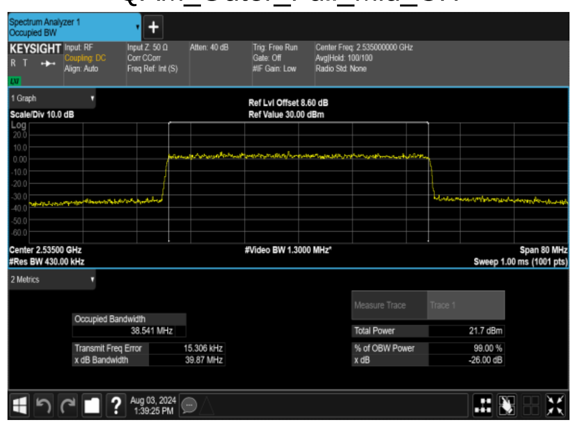


N7(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

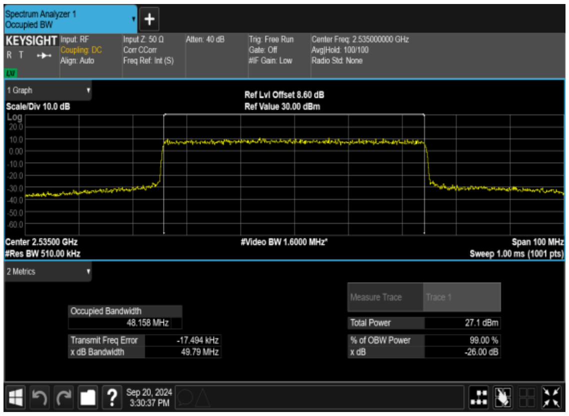
N7(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



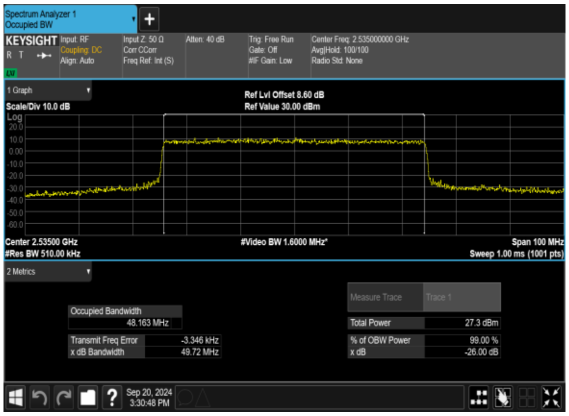
N7(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N7(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

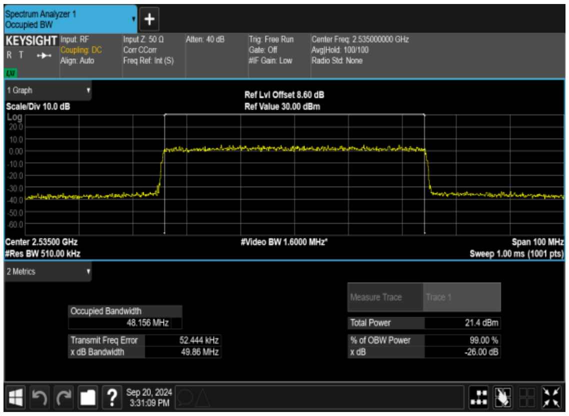


N7(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N7(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N7(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



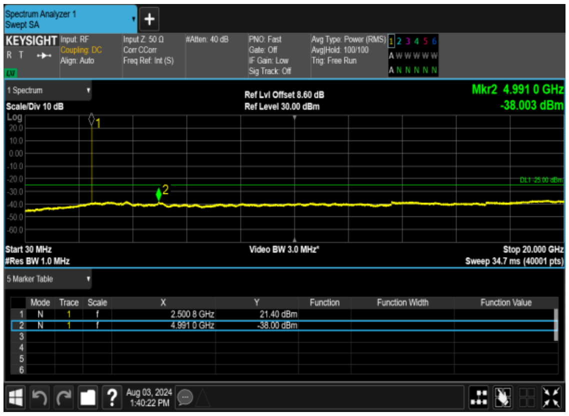
Conducted Spurious Emissions

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

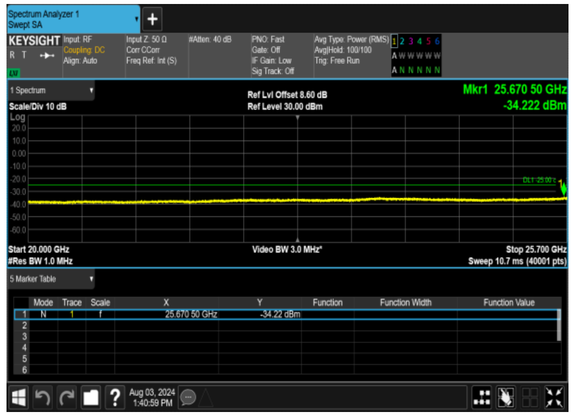
7	15	25	502500	2512.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	25	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**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

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

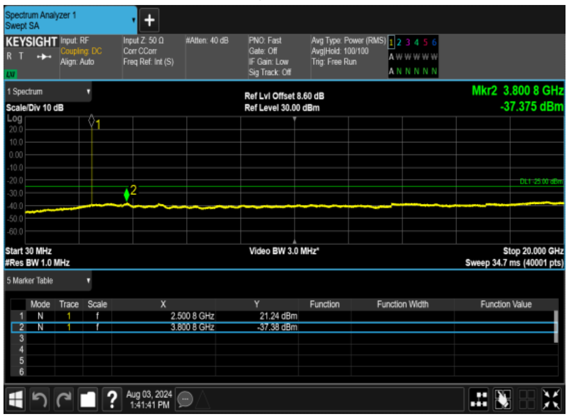
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



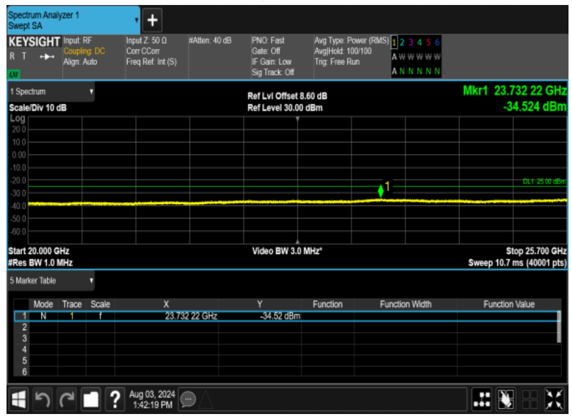
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



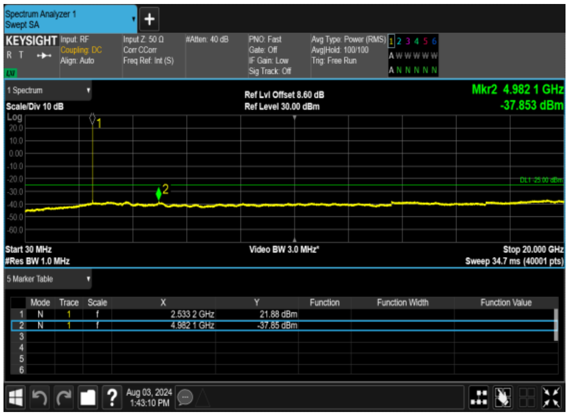
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



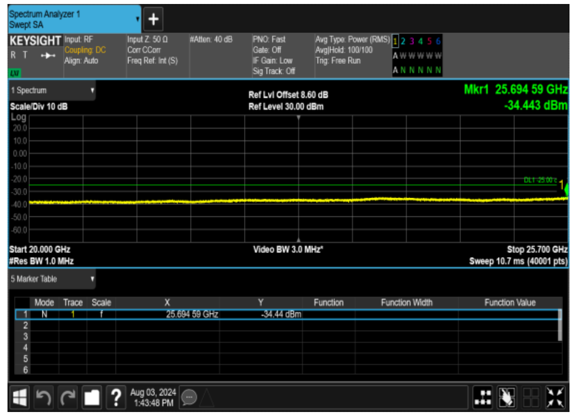
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



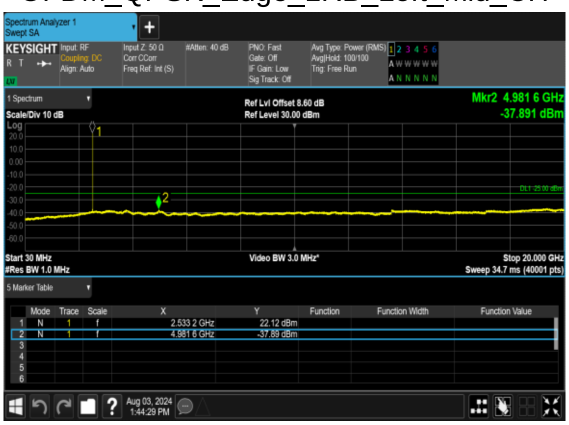
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



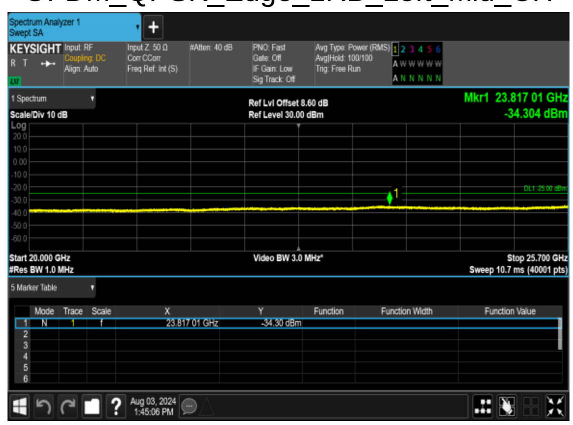
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



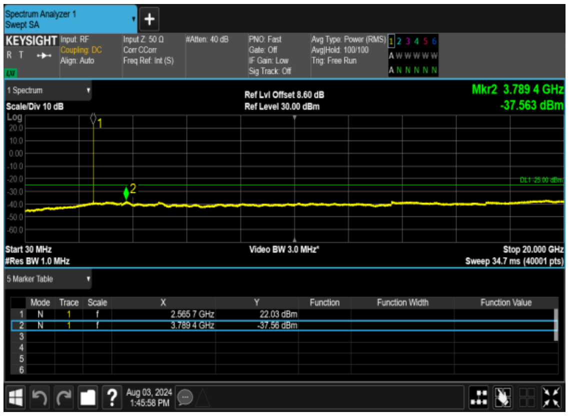
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



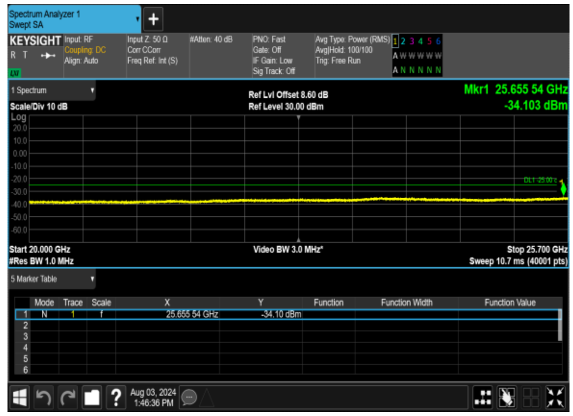
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



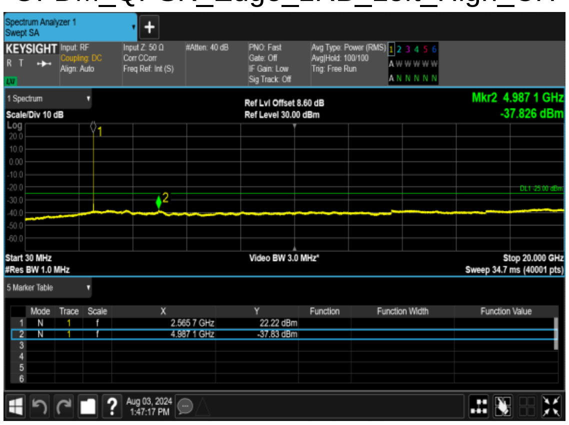
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



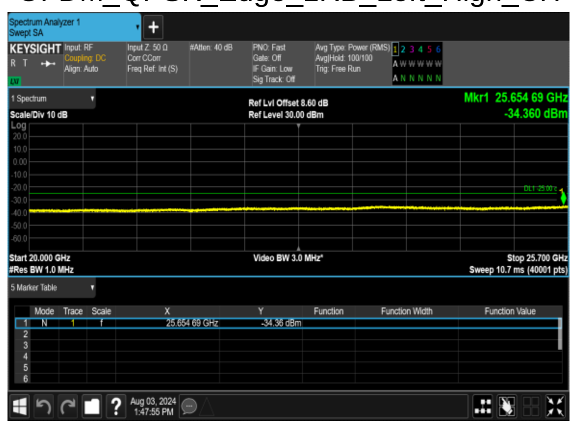
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



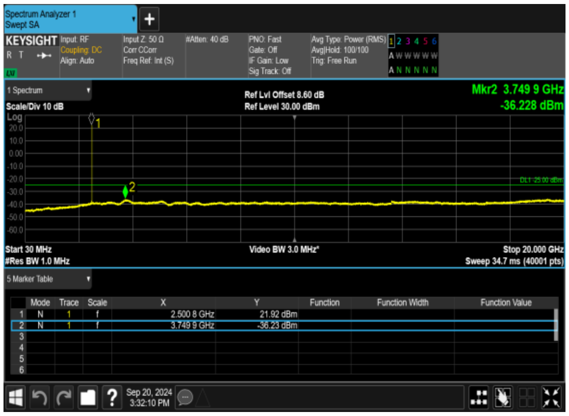
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



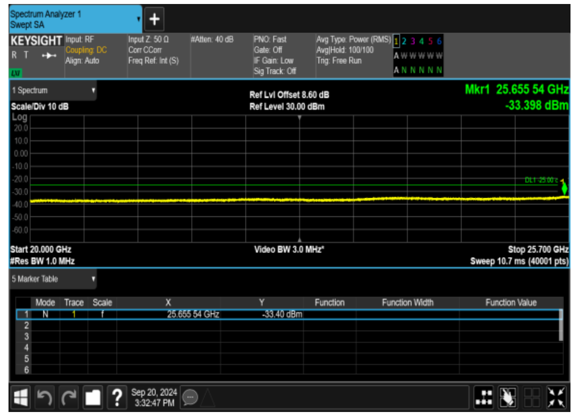
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



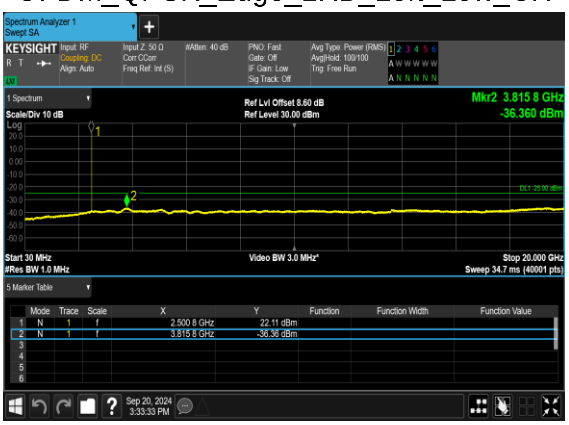
N7(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



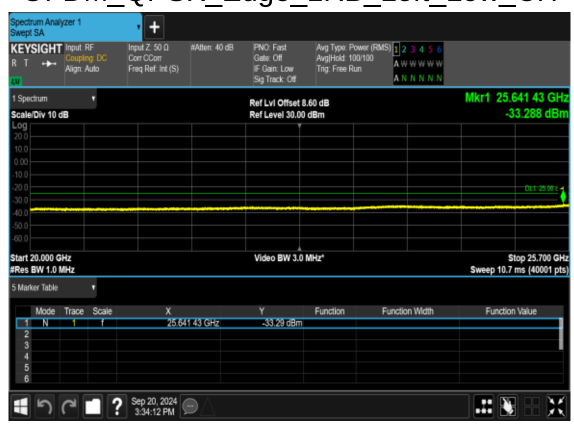
N7(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



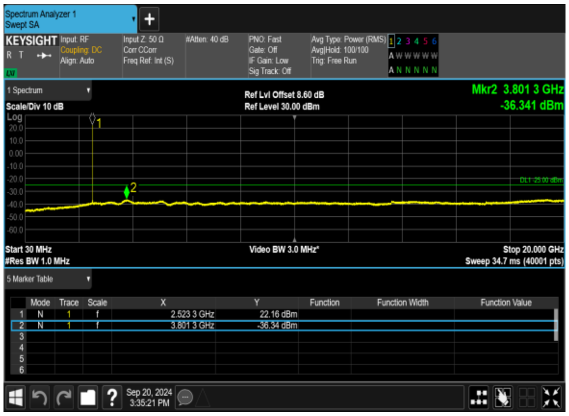
N7(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



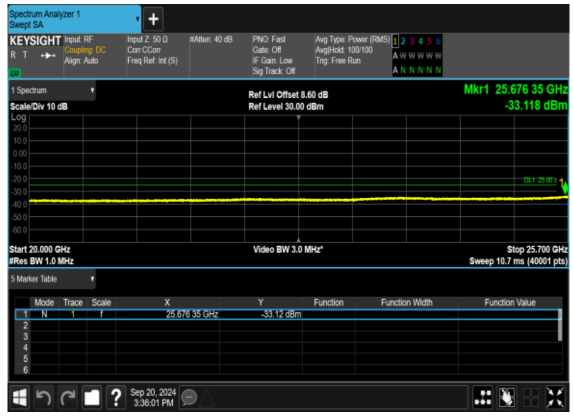
N7(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



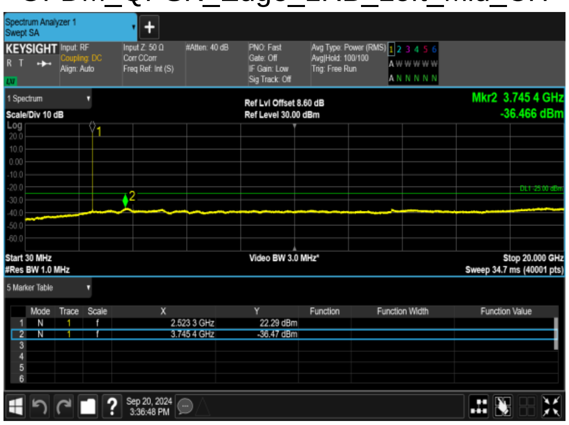
N7(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



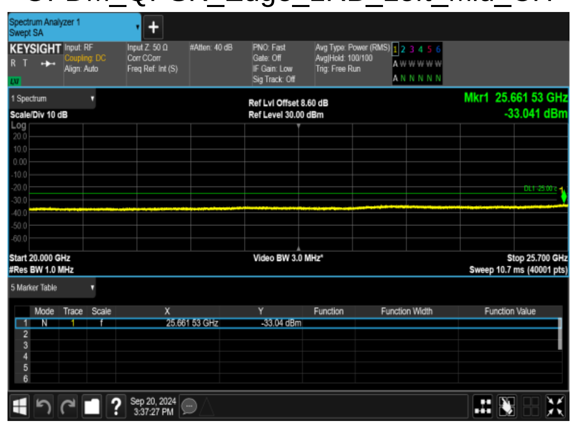
N7(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



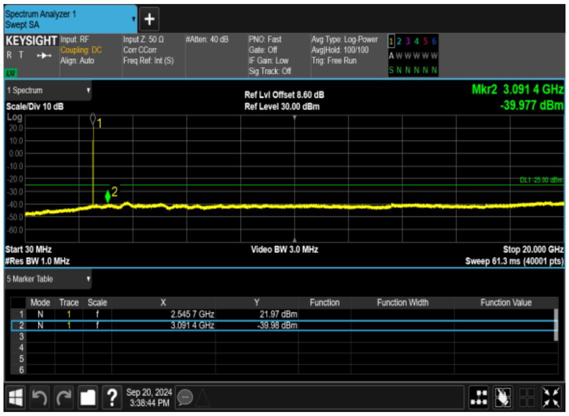
N7(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



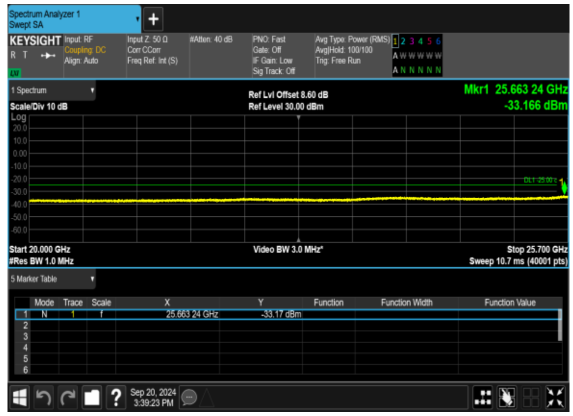
N7(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



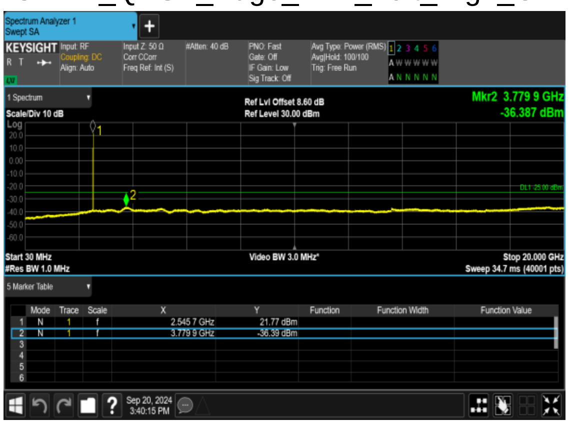
N7(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



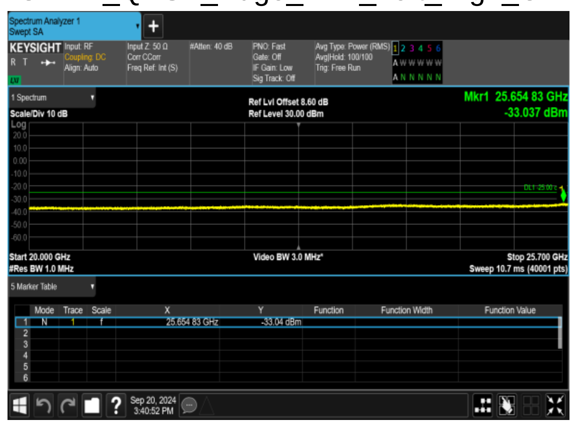
N7(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



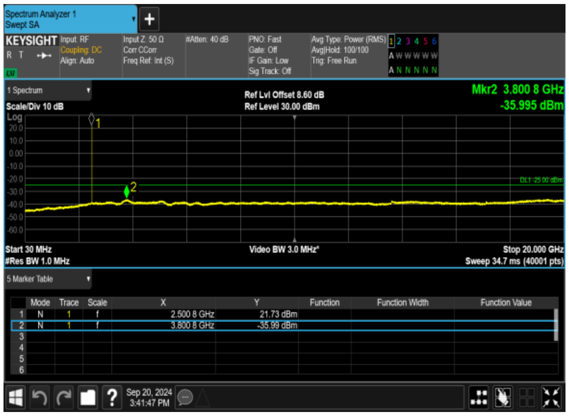
N7(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



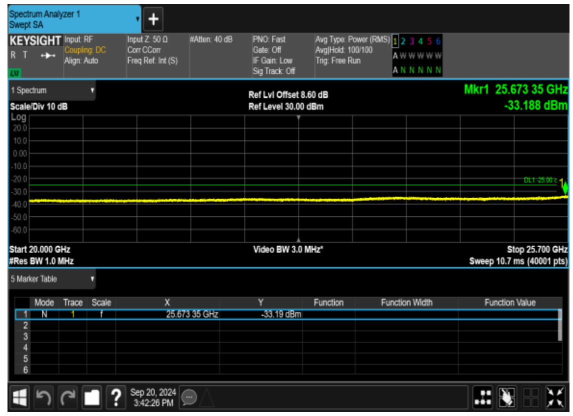
N7(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



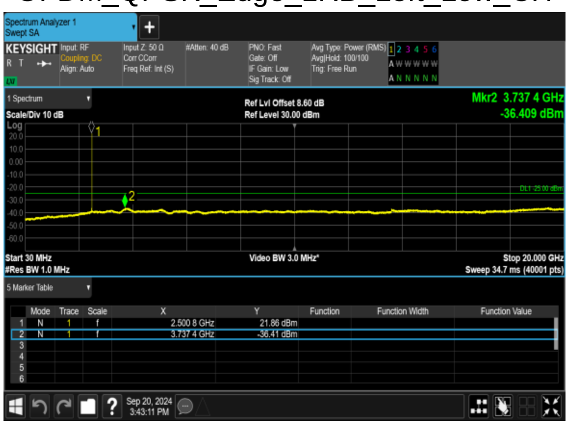
N7(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



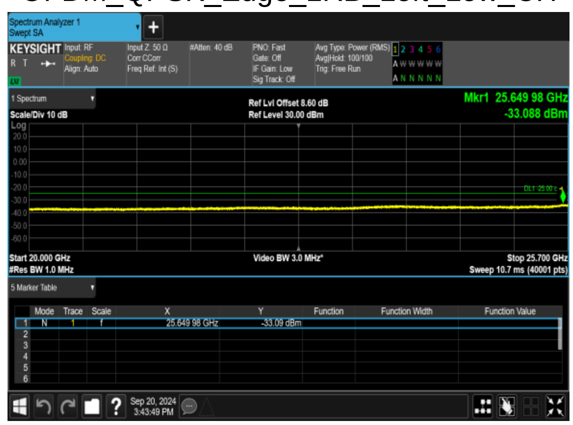
N7(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



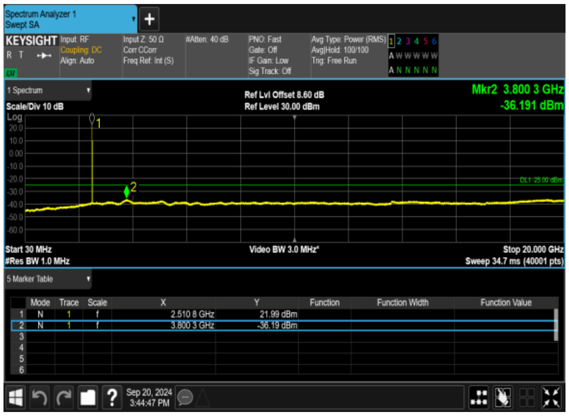
N7(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



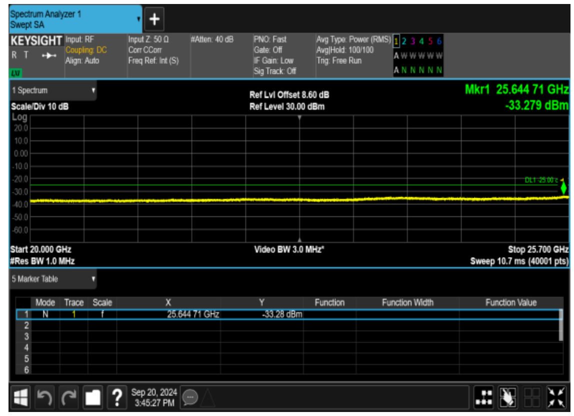
N7(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



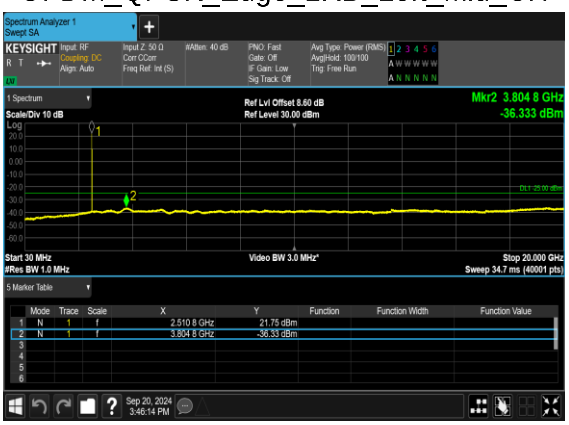
N7(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



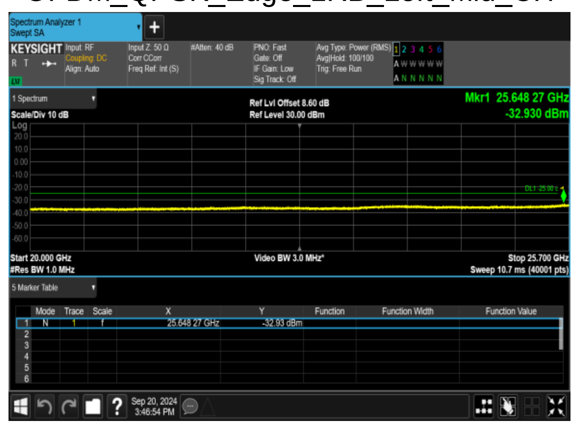
N7(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



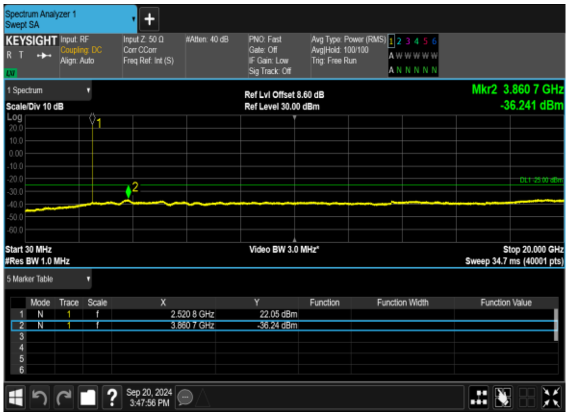
N7(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



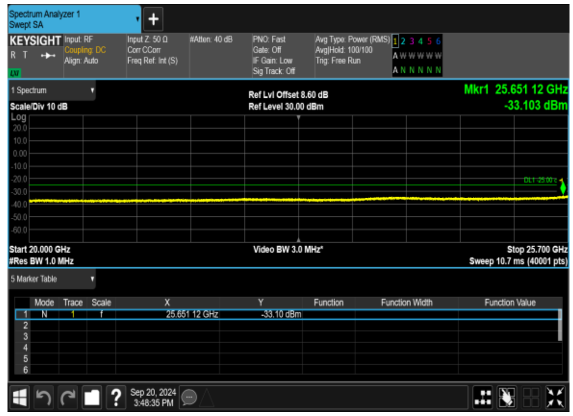
N7(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



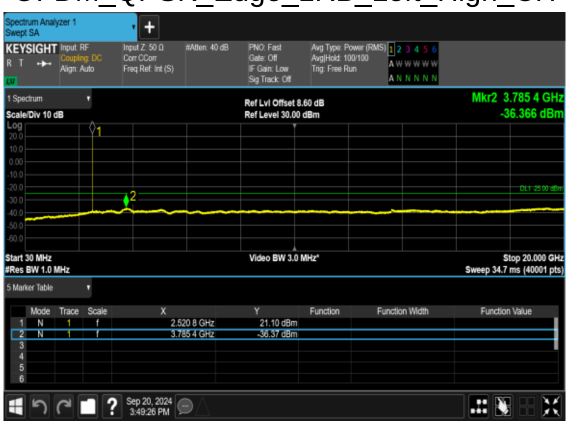
N7(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



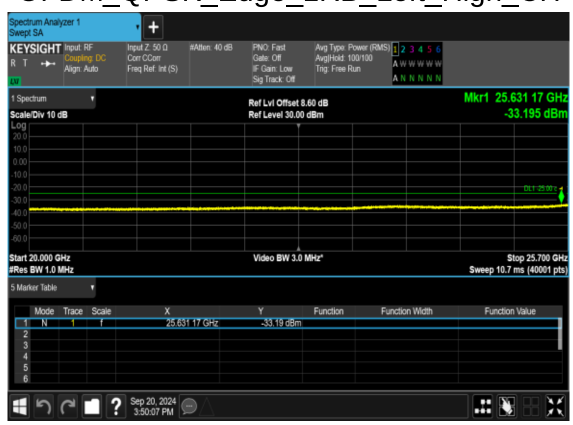
N7(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N7(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



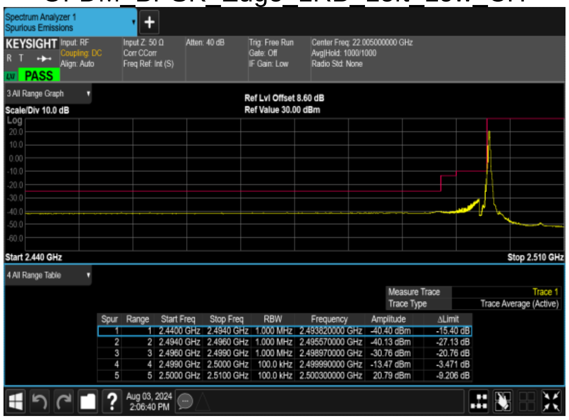
N7(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



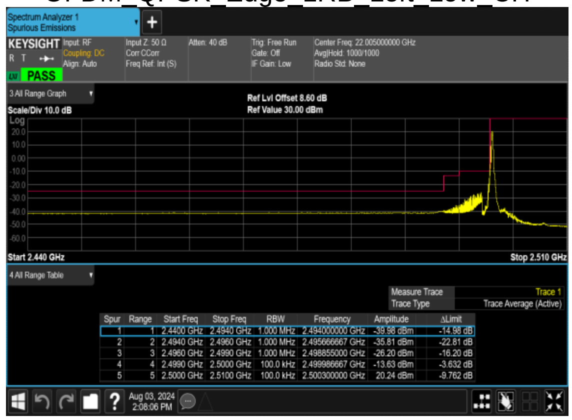
Conducted Band Edge

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

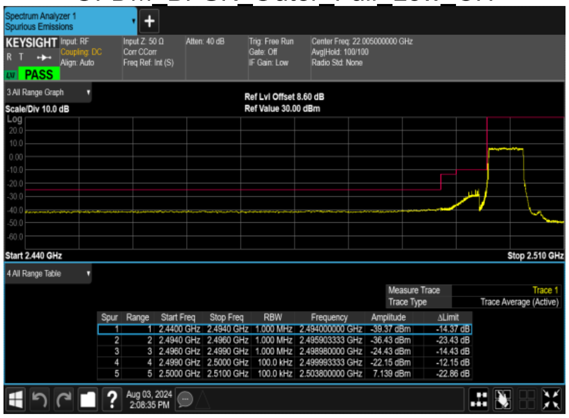
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



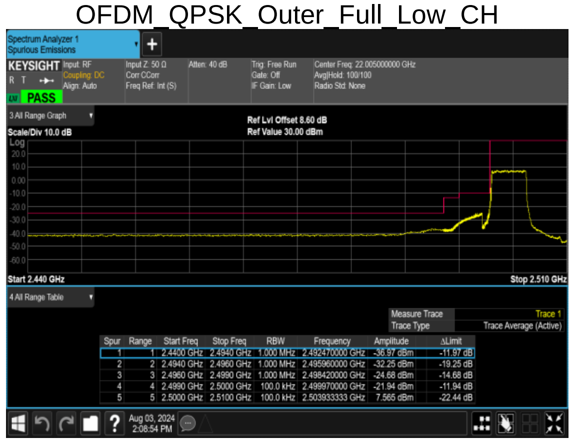
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



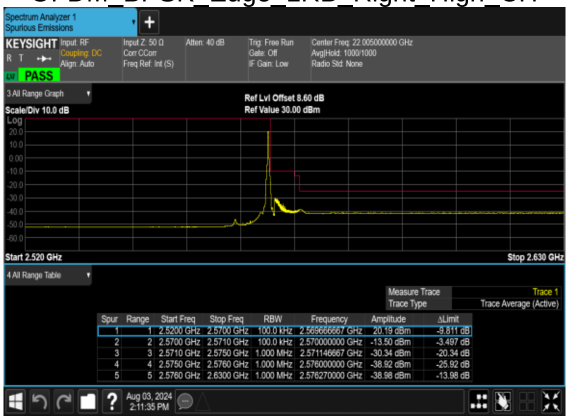
N7(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



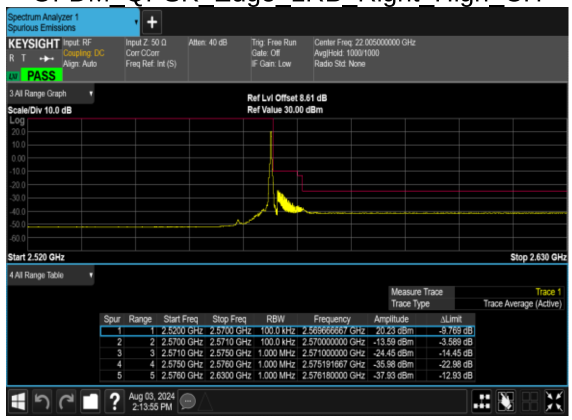
N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



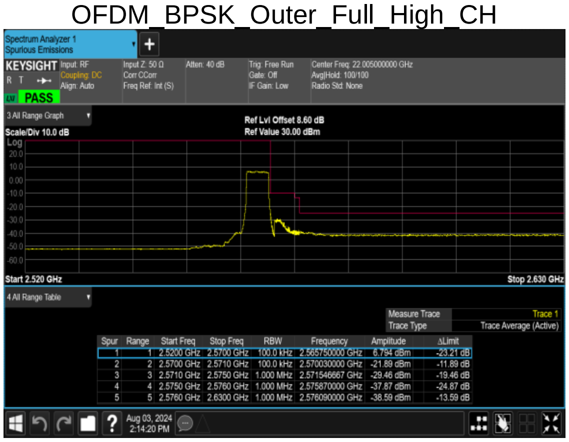
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



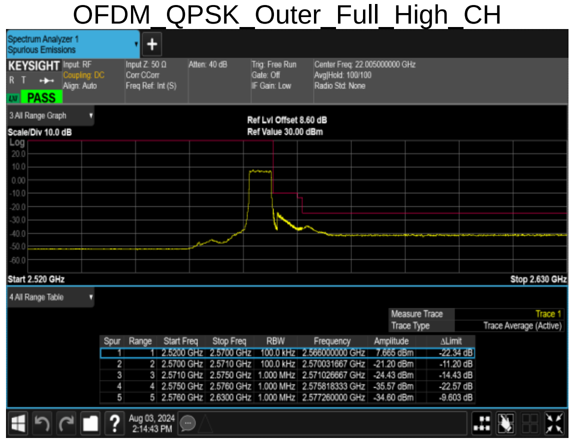
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



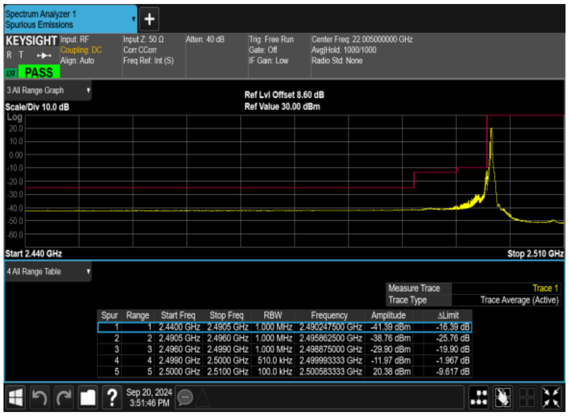
N7(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



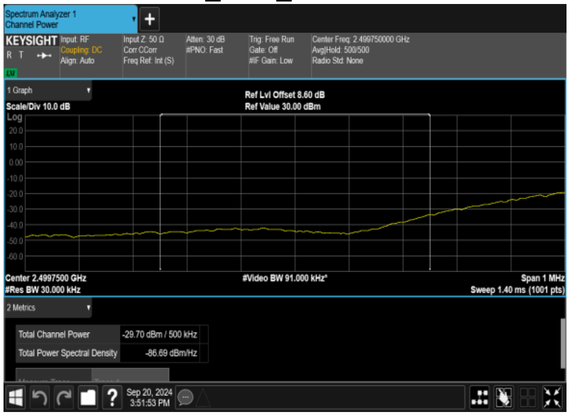
N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



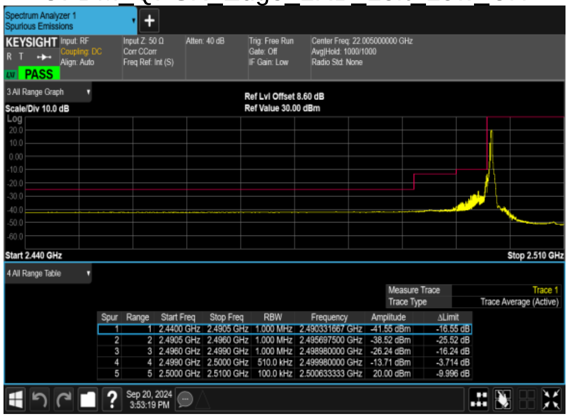
N7(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N7(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH**_CHP_PASS**



N7(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(25M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH