



FCC RADIO TEST REPORT

FCC ID : N7NEM92
Equipment : Wireless Module
Brand Name : AirPrime
Model Name : EM9293
Applicant : Sierra Wireless, ULC
13811 Wireless Way, Richmond, BC
V6V 3A4 Canada
Manufacturer : Sierra Wireless, ULC
13811 Wireless Way, Richmond, BC
V6V 3A4 Canada
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Dec. 20, 2022 and testing was performed from Mar. 09, 2023 to Aug. 24, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG2D2006C	01	Initial issue of report	Sep. 07, 2023
FG2D2006C	02	Revise Appendix A This report is an updated version, replacing the report issued on Sep. 07, 2023.	Sep. 20, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (n2) (n5) (n12) (n13) (n25) (n26) (n66) (n70) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n7) (n41)		
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (n2) (n5) (n12) (n13) (n25) (n26) (n66) (n70) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n7) (n41)		
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (n2) (n5) (n12) (n13) (n25) (n26) (n66) (n70) (n71)	Pass	17.08 dB under the limit at 1560.00 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (n7) (n41)		

**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/manufacturee 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.

Reviewed by: Danny Lee

Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs WCDMA/LTE/5G NR, and GNSS.

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. The maximum allowable antenna gain is determined by the manufacturer.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	George Chen and Ivy Yeh
Temperature (°C)	20~24
Relative Humidity (%)	50~58

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH11-HY (TAF Code: 3786)
Test Engineer	Yuan Lee, Sam Chou, Troye Hsieh and Leo Li
Temperature (°C)	19.8~23.5
Relative Humidity (%)	53.1~68.1
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786



1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168

D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in two config (Ant. Horizontal and Ant. Vertical), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Test Items	NR Band	Bandwidth (MHz)												Modulation					RB #			Test Channel		
		5	10	15	20	25	30	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n2	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n5	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n7	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	v
	n13	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n25	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n26	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
	n66	v	v	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	v
	n71	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n2	Covered by 5G NR n25																						
	n5	Covered by 5G NR n26																						
	n7				v				-	-	-	-	-	v	v	v	v	v			v		v	
	n12			v	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n13		v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n25				v				-	-	-	-	-	v	v	v	v	v			v		v	
	n26				v	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n41	-	-	-	v	-								v	v	v	v	v			v		v	
	n66				v				-	-	-	-	-	v	v	v	v	v			v		v	
	n70			v	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n71				v	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	



Test Items	NR Band	Bandwidth (MHz)													Modulation					RB #			Test Channel		
		5	10	15	20	25	30	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
26dB and 99% Bandwidth	n2	Covered by 5G NR n25																							
	n5	Covered by 5G NR n26																							
	n7	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v			v		v		
	n12	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v		
	n13	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v		
	n25	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v			v		v		
	n26	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		
	n66	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		
	n71	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v		
Conducted Band Edge	n2	Covered by 5G NR n25																							
	n5	Covered by 5G NR n26																							
	n7	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	
	n13	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v		v	v	v	v	
	n25	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v	v		v	v		v	
	n26	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	
	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	
	n71	v	v	v	v	-	-	-	-	-	-	-	-	v	v	v	v	v	v		v	v		v	

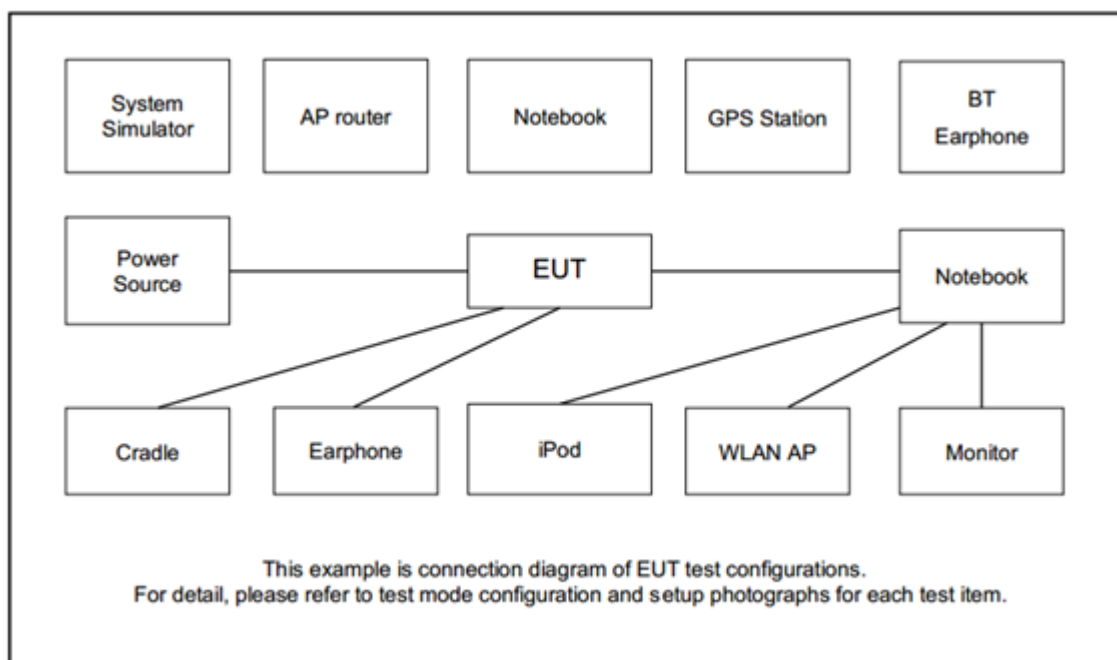


Test Items	NR Band	Bandwidth (MHz)													Modulation					RB #			Test Channel			
		5	10	15	20	25	30	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H		
Conducted Spurious Emission	n2	Covered by 5G NR n25																								
	n5	Covered by 5G NR n26																								
	n7	v							-	-	-	-	-		v					v			v	v	v	
	n12	v			-	-	-	-	-	-	-	-	-		v					v			v	v	v	
	n13	v		-	-	-	-	-	-	-	-	-	-		v					v			v	v	v	
	n25	v							-	-	-	-	-		v					v			v	v	v	
	n26	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	
Frequency Stability	n2	Covered by 5G NR n25																								
	n5	Covered by 5G NR n26																								
	n7				v				-	-	-	-	-	v								v		v		
	n12			v	-	-	-	-	-	-	-	-	-	v							v		v			
	n13		v	-	-	-	-	-	-	-	-	-	-	v							v		v			
	n25				v				-	-	-	-	-	v							v		v			
	n26				v	-	-	-	-	-	-	-	-	v							v		v			
	n41	-	-	-	v	-								v	v						v		v			
	n66				v				-	-	-	-	-	v							v		v			
	n70			v	-	-	-	-	-	-	-	-	-	v							v		v			
	n71				v	-	-	-	-	-	-	-	-	v							v		v			



Test Items	NR Band	Bandwidth (MHz)												Modulation					RB #			Test Channel			
		5	10	15	20	25	30	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Radiated Spurious Emission	n2	Worst Case																			v	v	v		
	n5	Worst Case																			v	v	v		
	n7	Worst Case																			v	v	v		
	n12	Worst Case																			v	v	v		
	n13	Worst Case																			v	v	v		
	n25	Worst Case																			v	v	v		
	n26	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			
Remark	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. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report, and the worst modes of FR1 and LTE for simultaneous transmission were verified and compliant. 5. Test combination are EN-DC 5A-n2A, EN-DC 12A-n2A, EN-DC 13A-n2A, EN-DC 14A-n2A, EN-DC 48A-n2A, EN-DC 2A-n5A, EN-DC 7A-n5A, EN-DC 66A-n5A, EN-DC 5A-n7A, EN-DC 12A-n7A, EN-DC 2A-n12A, EN-DC 66A-n12A, EN-DC 12A-n25A, EN-DC 5A-n41A, EN-DC 12A-n41A, EN-DC 26A-n41A, EN-DC 71A-n41A, EN-DC 5A-n66A, EN-DC 12A-n66A, EN-DC 13A-n66A, EN-DC 14A-n66A, EN-DC 48A-n66A, EN-DC 71A-n66A, EN-DC 2A-n71A, EN-DC 7A-n71A and EN-DC 66A-n71A. 6. Wider operating range bandwidth covers narrower one when the power is higher or the same. 7. One representative bandwidth is selected to perform PAR and frequency stability.																								

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5



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 n13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	156400	-
	Frequency	-	782	-
5	Channel	155900	156400	156900
	Frequency	779.5	782	784.5



5G NR n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	374000	376500	379000
	Frequency	1870	1882.5	1895
30	Channel	373000	376500	380000
	Frequency	1865	1882.5	1900
25	Channel	372500	376500	380500
	Frequency	1862.5	1882.5	1902.5
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5

5G NR n26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5



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
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
25	Channel	344500	349000	353500
	Frequency	1722.5	1745	1767.5
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	339500	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

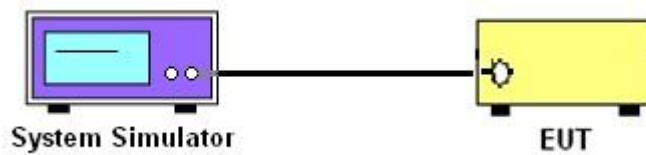
3 Conducted Test Items

3.1 Measuring Instruments

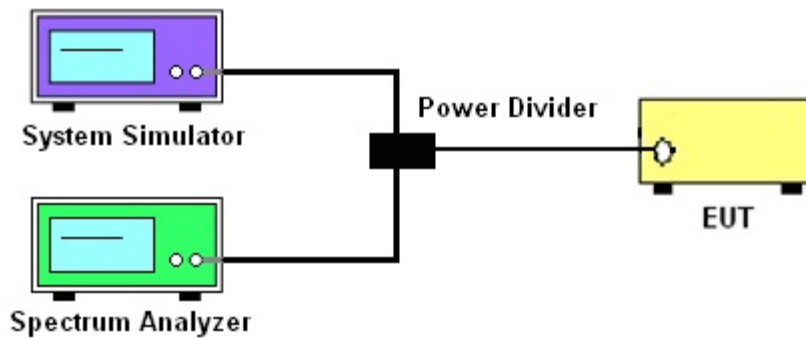
See list of measuring instruments of this test report.

3.1.1 Test Setup

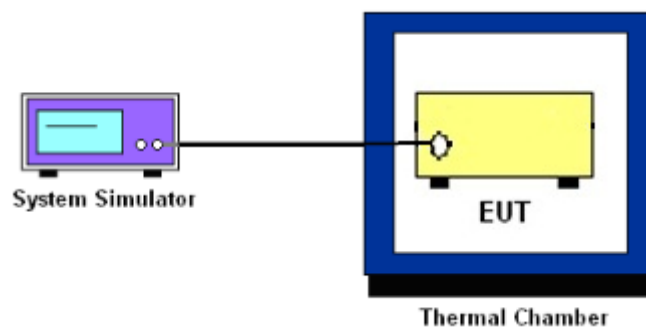
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power 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.

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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



3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz 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.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the 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 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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 (h)

For operations in the 1695–1710 MHz, 1710 – 1755 MHz, 1755-1780 MHz bands, the limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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(m)(4)

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

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.

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

For 5G NR n7, n41

The other 40 dB, and 55 dB have additionally applied same calculation above.

8. For MIMO mode, add additional MIMO factor $10\log(NTX=2) = 3.01$ dB into the spectrum analyzer offset.

3.6 Conducted Spurious Emission

3.6.1 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 10th harmonic.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
For 5G NR n7, n41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
10. For MIMO mode, add additional MIMO factor $10\log(NTX=2) = 3.01$ dB into the spectrum analyzer offset.

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within each of the sub-bands when tested at the temperature and supply voltage variations specified in RSS-Gen.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

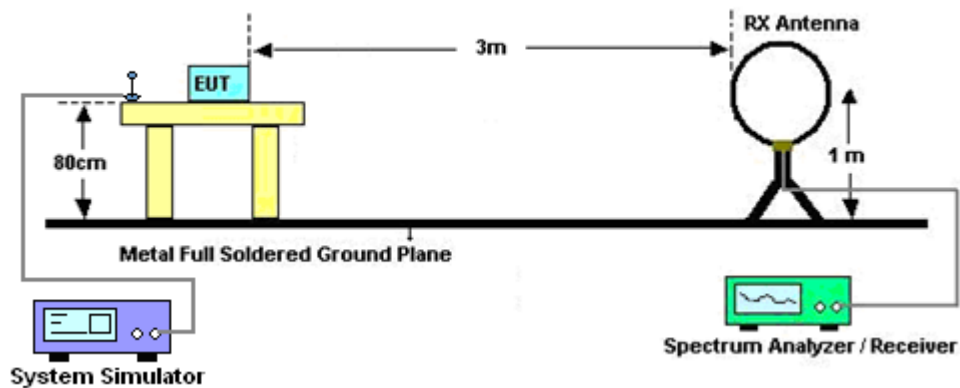
4 Radiated Test Items

4.1 Measuring Instruments

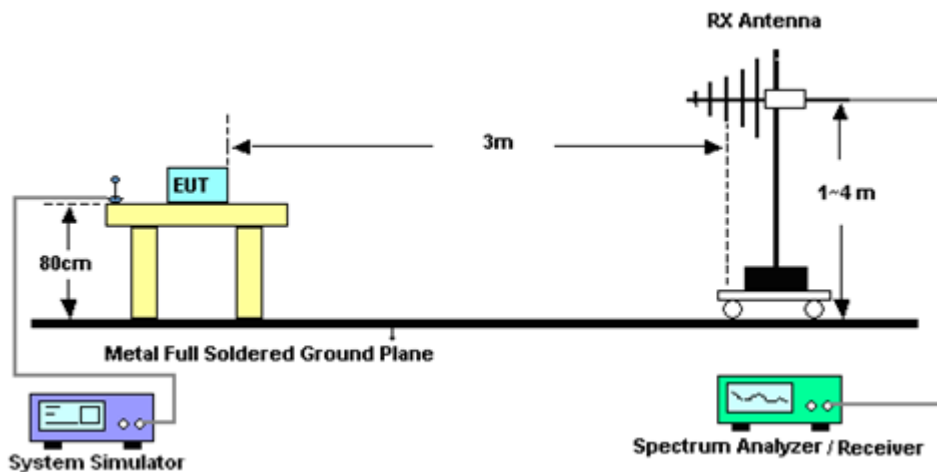
See list of measuring instruments of this test report.

4.1.1 Test Setup

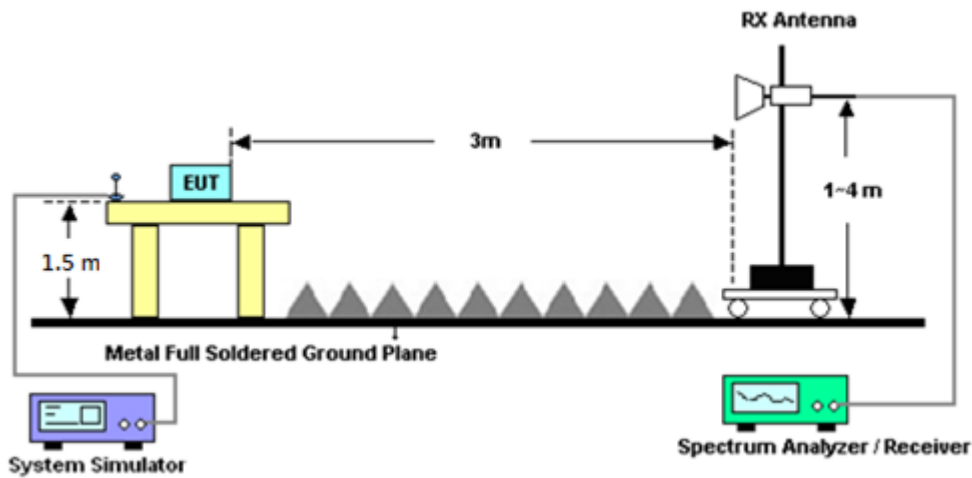
For radiated test below 30MHz



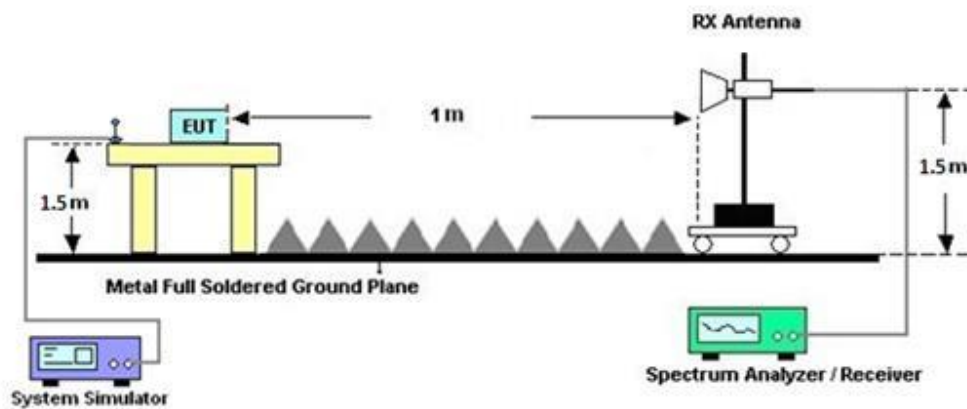
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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.

For 5G NR n13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

For 5G NR n7, n41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Aug. 03, 2023~ Aug. 24, 2023	Sep. 19, 2023	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 08, 2022	Aug. 03, 2023~ Aug. 24, 2023	Oct. 07, 2023	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 24, 2022	Aug. 03, 2023~ Aug. 17, 2023	Aug. 23, 2023	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 17, 2023	Aug. 17, 2023~ Aug. 24, 2023	Aug. 16, 2024	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Aug. 24, 2022	Aug. 03, 2023~ Aug. 17, 2023	Aug. 23, 2023	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Aug. 17, 2023	Aug. 17, 2023~ Aug. 24, 2023	Aug. 16, 2024	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2022	Aug. 03, 2023~ Aug. 24, 2023	Nov. 23, 2023	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00994	18GHz~40GHz	Nov. 04, 2022	Aug. 03, 2023~ Aug. 24, 2023	Nov. 03, 2023	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 09, 2022	Aug. 03, 2023~ Aug. 24, 2023	Dec. 08, 2023	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 09, 2022	Aug. 03, 2023~ Aug. 24, 2023	Nov. 08, 2023	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	1710001800 055007	1GHz~18GHz	Jun. 14, 2023	Aug. 03, 2023~ Aug. 24, 2023	Jun. 13, 2024	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Aug. 03, 2023~ Aug. 24, 2023	Dec. 06, 2023	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 07, 2022	Aug. 03, 2023~ Aug. 24, 2023	Oct. 06, 2023	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Aug. 03, 2023~ Aug. 24, 2023	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Aug. 03, 2023~ Aug. 24, 2023	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Aug. 03, 2023~ Aug. 24, 2023	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 07, 2023	Aug. 03, 2023~ Aug. 24, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801595/2	30MHz~40GHz	Mar. 07, 2023	Aug. 03, 2023~ Aug. 24, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Aug. 03, 2023~ Aug. 24, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 07, 2023	Aug. 03, 2023~ Aug. 24, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OSS	SN3	3GHz High Pass Filter	Sep. 12, 2022	Aug. 03, 2023~ Aug. 24, 2023	Sep. 11, 2023	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-900- 1000-15000-6 OSS	SN12	1GHz High Pass Filter	Sep. 12, 2022	Aug. 03, 2023~ Aug. 24, 2023	Sep. 11, 2023	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Jan. 11, 2023	Aug. 03, 2023~ Aug. 24, 2023	Jan. 10, 2024	Radiation (03CH11-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	50Hz~60Hz	Sep. 29, 2022	Mar. 09, 2023~ Aug. 17, 2023	Sep. 28, 2023	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101049	10Hz~44GHz	Oct. 07, 2022	Mar. 09, 2023~ Aug. 17, 2023	Oct. 06, 2023	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 07, 2022	Mar. 09, 2023~ Aug. 17, 2023	Sep. 06, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6261940327	LTE	Dec. 09, 2022	Mar. 09, 2023~ Aug. 17, 2023	Dec. 08, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6261849015	FR1	Dec. 09, 2022	Mar. 09, 2023~ Aug. 17, 2023	Dec. 08, 2023	Conducted (TH03-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.22 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.53 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.61 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

<SISO Mode>

NR n2 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	23.94	23.80	23.95	23.95	0.2483
5	1	23		23.73	23.86	23.84		
5	12	6		23.82	23.84	23.92		
5	1	0		23.38	23.38	23.44		
5	1	24		23.27	23.33	23.33		
5	25	0		23.39	23.34	23.40		
5	1	1	QPSK	24.20	24.01	23.98	24.20	0.2630
5	1	23		23.67	24.08	23.84		
5	12	6		23.89	23.88	23.88		
5	1	0		22.87	22.84	22.96		
5	1	24		22.79	22.88	22.75		
5	25	0		22.87	22.84	22.92		
5	1	1	16-QAM	22.73	22.76	22.95	22.95	0.1972
5	1	1	64-QAM	21.26	21.23	21.67		
5	1	1	256-QAM	19.33	19.31	18.98		

NR n2 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	23.99	23.81	23.98	23.99	0.2506
10	1	50		23.77	23.84	23.85		
10	25	12		23.87	23.96	23.90		
10	1	0		23.50	23.39	23.58		
10	1	51		23.26	23.36	23.31		
10	50	0		23.38	23.38	23.44		
10	1	1	QPSK	23.96	23.96	24.13	24.13	0.2588
10	1	50		23.93	23.98	24.05		
10	25	12		23.90	23.88	23.87		
10	1	0		23.06	22.88	23.08		
10	1	51		22.84	22.84	24.05		
10	50	0		22.90	22.85	22.88		
10	1	1	16-QAM	22.99	22.82	22.99	22.99	0.1991
10	1	1	64-QAM	21.69	21.39	21.70		
10	1	1	256-QAM	19.02	18.78	18.91		



NR n2 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
15	1	1	PI/2 BPSK	24.18	23.98	23.94	24.18	0.2618
15	1	77		23.88	24.00	23.92		
15	36	18		24.02	23.94	23.92		
15	1	0		23.50	23.45	23.47		
15	1	78		23.37	23.46	23.37		
15	75	0		23.58	23.51	23.44		
15	1	1	QPSK	24.30	24.05	24.17	24.30	0.2692
15	1	77		24.12	24.19	23.92		
15	36	18		24.03	23.99	24.00		
15	1	0		23.20	23.00	23.05		
15	1	78		22.89	23.07	22.90		
15	75	0		23.13	22.98	22.89		
15	1	1	16-QAM	23.13	22.95	23.00	23.13	0.2056
15	1	1	64-QAM	21.88	21.68	21.65		
15	1	1	256-QAM	19.12	18.95	18.97		

NR n2 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
20	1	1	PI/2 BPSK	24.07	23.95	23.98	24.12	0.2582
20	1	104		23.94	24.03	23.94		
20	50	25		24.12	24.02	24.11		
20	1	0		23.65	23.45	23.55		
20	1	105		23.50	23.49	23.42		
20	100	0		23.50	23.48	23.48		
20	1	1	QPSK	24.10	24.05	23.93	24.10	0.2570
20	1	104		24.02	23.99	24.09		
20	50	25		24.00	23.97	23.92		
20	1	0		23.07	23.00	23.02		
20	1	105		23.02	23.08	23.03		
20	100	0		22.98	22.97	23.00		
20	1	1	16-QAM	23.09	22.97	22.99	23.09	0.2037
20	1	1	64-QAM	21.74	21.64	21.70		
20	1	1	256-QAM	19.12	19.04	18.95		



NR n5 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	23.81	23.78	23.46	23.81	0.2404
5	1	23		23.75	23.69	23.22		
5	12	6		23.76	23.61	23.24		
5	1	0		23.29	23.12	22.82		
5	1	24		23.13	23.10	22.76		
5	25	0		23.30	23.17	22.77		
5	1	1	QPSK	23.74	23.77	23.44	23.77	0.2382
5	1	23		23.73	23.63	23.21		
5	12	6		23.70	23.58	23.20		
5	1	0		22.80	22.69	22.25		
5	1	24		22.68	22.62	22.26		
5	25	0		22.75	22.68	22.25		
5	1	1	16-QAM	22.72	22.59	22.33	22.72	0.1871
5	1	1	64-QAM	21.40	21.33	20.99		
5	1	1	256-QAM	18.78	18.60	18.36		

NR n5 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	23.85	23.71	23.51	23.85	0.2427
10	1	50		23.66	23.41	23.19		
10	25	12		23.84	23.65	23.43		
10	1	0		23.35	23.10	22.87		
10	1	51		23.16	22.88	22.66		
10	50	0		23.40	23.16	22.96		
10	1	1	QPSK	24.01	23.76	23.47	24.01	0.2518
10	1	50		23.85	23.68	23.12		
10	25	12		23.85	23.63	23.33		
10	1	0		22.81	22.68	22.44		
10	1	51		22.67	22.53	22.28		
10	50	0		22.82	22.62	22.41		
10	1	1	16-QAM	22.78	22.62	22.32	22.78	0.1897
10	1	1	64-QAM	21.41	21.42	21.02		
10	1	1	256-QAM	18.73	18.75	18.39		



NR n5 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
15	1	1	PI/2 BPSK	23.89	23.90	23.70	23.90	0.2455
15	1	77		23.58	22.55	23.29		
15	36	18		23.81	23.79	23.55		
15	1	0		23.36	23.34	23.11		
15	1	78		23.10	23.04	22.78		
15	75	0		23.38	23.31	23.14		
15	1	1	QPSK	23.95	23.84	23.75	23.95	0.2483
15	1	77		23.68	23.51	23.40		
15	36	18		23.86	23.83	23.68		
15	1	0		22.87	22.81	22.59		
15	1	78		22.63	22.70	22.30		
15	75	0		22.85	22.80	22.54		
15	1	1	16-QAM	22.76	22.72	22.66	22.76	0.1888
15	1	1	64-QAM	21.51	21.43	21.47		
15	1	1	256-QAM	18.94	18.85	18.82		

NR n5 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
20	1	1	PI/2 BPSK	23.84	23.85	23.90	23.90	0.2455
20	1	104		23.56	23.37	23.32		
20	50	25		23.73	23.80	23.77		
20	1	0		23.31	23.40	23.20		
20	1	105		22.96	22.88	22.73		
20	100	0		23.23	22.37	23.23		
20	1	1	QPSK	23.81	23.93	23.96	23.96	0.2489
20	1	104		23.45	23.53	23.35		
20	50	25		23.68	23.84	23.67		
20	1	0		22.71	22.89	22.72		
20	1	105		22.47	22.58	22.33		
20	100	0		22.76	22.85	22.74		
20	1	1	16-QAM	22.58	22.85	22.67	22.85	0.1928
20	1	1	64-QAM	21.30	21.53	21.42		
20	1	1	256-QAM	18.89	18.85	18.81		



NR n7 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	24.24	24.12	24.07	24.32	0.2704
5	1	23		24.22	24.23	24.12		
5	12	6		24.32	24.12	24.10		
5	1	0		23.69	23.58	23.51		
5	1	24		23.72	23.58	23.59		
5	25	0		23.80	23.67	23.63		
5	1	1	QPSK	24.26	24.14	24.07	24.32	0.2704
5	1	23		24.32	24.14	24.13		
5	12	6		24.23	24.12	24.08		
5	1	0		23.17	23.14	23.06		
5	1	24		23.25	23.13	23.10		
5	25	0		23.21	23.15	23.13		
5	1	1	16-QAM	23.15	23.05	23.02	23.15	0.2065
5	1	1	64-QAM	21.87	21.82	21.72		
5	1	1	256-QAM	19.17	19.08	19.09		

NR n7 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	24.15	24.14	24.07	24.20	0.2630
10	1	50		24.10	24.20	24.07		
10	25	12		24.11	24.20	24.11		
10	1	0		23.63	23.58	23.57		
10	1	51		23.64	23.60	23.59		
10	50	0		23.68	23.65	23.57		
10	1	1	QPSK	24.16	24.10	24.07	24.26	0.2667
10	1	50		24.14	24.19	24.26		
10	25	12		24.10	24.16	24.08		
10	1	0		23.15	23.11	23.11		
10	1	51		23.12	23.11	23.12		
10	50	0		23.15	23.15	23.07		
10	1	1	16-QAM	23.11	23.09	23.05	23.11	0.2046
10	1	1	64-QAM	21.87	21.82	21.74		
10	1	1	256-QAM	19.12	19.13	19.08		



NR n7 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
15	1	1	PI/2 BPSK	24.40	24.26	24.28	24.44	0.2780
15	1	77		24.33	24.35	24.23		
15	36	18		24.44	24.35	24.26		
15	1	0		23.88	23.82	23.72		
15	1	78		23.89	23.71	23.79		
15	75	0		23.95	23.84	23.79		
15	1	1	QPSK	24.43	24.30	24.28	24.44	0.2780
15	1	77		24.40	24.27	24.24		
15	36	18		24.44	24.34	24.30		
15	1	0		23.44	23.35	23.24		
15	1	78		23.36	23.29	23.21		
15	75	0		23.42	23.33	23.28		
15	1	1	16-QAM	23.42	23.25	23.19	23.42	0.2198
15	1	1	64-QAM	22.04	21.88	21.93		
15	1	1	256-QAM	19.43	19.35	19.21		

NR n7 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
20	1	1	PI/2 BPSK	24.42	24.27	24.22	24.47	0.2799
20	1	104		24.35	24.28	24.25		
20	50	25		24.47	24.30	24.29		
20	1	0		23.93	23.79	23.76		
20	1	105		23.84	23.75	23.74		
20	100	0		23.95	23.77	23.64		
20	1	1	QPSK	24.49	24.31	24.21	24.49	0.2812
20	1	104		24.44	24.25	24.23		
20	50	25		24.45	24.34	24.27		
20	1	0		23.48	23.29	23.26		
20	1	105		23.40	23.29	23.24		
20	100	0		23.52	23.35	23.21		
20	1	1	16-QAM	23.47	23.20	23.15	23.47	0.2223
20	1	1	64-QAM	22.22	22.02	21.92		
20	1	1	256-QAM	19.51	19.32	19.29		



NR n7 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
25	1	1	PI/2 BPSK	24.53	24.35	24.25	24.55	0.2851
25	1	131		24.42	24.24	24.21		
25	64	32		24.55	24.38	24.23		
25	1	0		24.00	23.76	23.72		
25	1	132		23.89	23.75	23.66		
25	128	0		24.01	23.81	23.72		
25	1	1	QPSK	24.57	24.38	24.26	24.58	0.2871
25	1	131		24.58	24.43	24.21		
25	64	32		24.50	24.29	24.25		
25	1	0		23.58	23.36	23.30		
25	1	132		23.44	23.31	23.15		
25	128	0		23.52	23.32	23.24		
25	1	1	16-QAM	23.42	23.30	23.25	23.42	0.2198
25	1	1	64-QAM	22.14	22.03	21.92		
25	1	1	256-QAM	19.45	19.31	19.29		

NR n7 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
30	1	1	PI/2 BPSK	24.48	24.35	24.45	24.48	0.2805
30	1	158		24.41	24.34	24.17		
30	80	40		24.37	24.46	24.27		
30	1	0		23.93	23.89	23.82		
30	1	159		23.87	23.82	23.66		
30	160	0		23.89	23.95	23.76		
30	1	1	QPSK	24.42	24.32	24.32	24.42	0.2767
30	1	158		24.34	24.33	24.15		
30	80	40		24.30	24.39	24.21		
30	1	0		23.44	23.43	23.37		
30	1	159		23.41	23.38	23.15		
30	160	0		23.33	23.40	23.35		
30	1	1	16-QAM	23.36	23.27	23.27	23.36	0.2168
30	1	1	64-QAM	22.11	21.91	21.94		
30	1	1	256-QAM	19.48	19.30	19.36		



NR n7 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
40	1	1	PI/2 BPSK	24.45	24.37	24.44	24.45	0.2786
40	1	214		24.44	24.34	24.34		
40	108	54		24.39	24.39	24.39		
40	1	0		23.91	23.90	23.98		
40	1	215		23.99	23.80	23.80		
40	216	0		23.90	23.88	23.90		
40	1	1	QPSK	24.50	24.40	24.46	24.52	0.2831
40	1	214		24.52	24.29	24.36		
40	108	54		24.47	24.43	24.46		
40	1	0		23.44	23.48	23.51		
40	1	215		23.54	23.29	23.29		
40	216	0		23.42	23.36	23.39		
40	1	1	16-QAM	23.44	23.33	23.35	23.44	0.2208
40	1	1	64-QAM	22.07	22.00	22.18		
40	1	1	256-QAM	19.50	19.48	19.49		



NR n12 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	23.50	23.79	23.68	23.89	0.2449
5	1	23		23.54	23.89	23.82		
5	12	6		23.53	23.86	23.72		
5	1	0		23.10	23.41	23.25		
5	1	24		23.15	23.31	23.31		
5	25	0		23.13	23.43	23.35		
5	1	1	QPSK	23.91	23.67	23.83	24.15	0.2600
5	1	23		23.75	23.76	24.15		
5	12	6		23.65	23.82	23.84		
5	1	0		22.69	22.88	22.87		
5	1	24		22.73	22.83	22.91		
5	25	0		22.67	22.78	22.80		
5	1	1	16-QAM	22.62	22.70	22.79	22.79	0.1901
5	1	1	64-QAM	21.42	21.30	21.55		
5	1	1	256-QAM	18.76	18.61	18.91		

NR n12 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	23.81	23.60	23.79	23.98	0.2500
10	1	50		23.84	23.59	23.98		
10	25	12		23.74	23.70	23.91		
10	1	0		23.33	23.32	23.47		
10	1	51		23.35	23.15	23.49		
10	50	0		23.29	23.08	23.44		
10	1	1	QPSK	23.68	23.63	23.73	23.87	0.2438
10	1	50		23.69	23.66	23.87		
10	25	12		23.67	23.75	23.87		
10	1	0		22.80	22.70	22.97		
10	1	51		22.65	22.66	22.91		
10	50	0		22.62	22.56	22.90		
10	1	1	16-QAM	22.63	22.81	22.66	22.81	0.1910
10	1	1	64-QAM	21.21	21.44	21.18		
10	1	1	256-QAM	18.49	18.78	18.60		



NR n12 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
15	1	1	PI/2 BPSK	23.82	23.89	23.80	24.03	0.2529
15	1	77		23.86	24.03	23.95		
15	36	18		24.00	24.02	23.90		
15	1	0		23.61	23.62	23.49		
15	1	78		23.49	23.48	23.46		
15	75	0		23.60	23.55	23.50		
15	1	1	QPSK	23.84	23.72	23.90	24.02	0.2523
15	1	77		24.00	23.82	24.02		
15	36	18		24.01	23.96	24.00		
15	1	0		23.16	23.09	23.13		
15	1	78		22.97	22.95	23.21		
15	75	0		23.05	23.03	23.00		
15	1	1	16-QAM	22.78	22.77	22.87	22.87	0.1936
15	1	1	64-QAM	21.60	21.38	21.52		
15	1	1	256-QAM	18.94	19.01	18.95		



NR n13 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	23.23	23.20	23.55	23.55	0.2265
5	1	23		23.36	23.35	23.46		
5	12	6		23.28	23.26	23.42		
5	1	0		22.86	22.95	22.88		
5	1	24		22.82	22.85	22.93		
5	25	0		22.83	22.80	22.92		
5	1	1	QPSK	23.08	23.41	23.43	23.73	0.2360
5	1	23		23.29	23.73	23.35		
5	12	6		23.23	23.37	23.35		
5	1	0		22.20	22.48	22.39		
5	1	24		22.31	22.47	22.42		
5	25	0		22.28	22.35	22.45		
5	1	1	16-QAM	22.07	22.27	22.25	22.27	0.1687
5	1	1	64-QAM	20.84	20.75	20.85		
5	1	1	256-QAM	18.07	18.91	18.84		

NR n13 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	-	23.08	-	23.39	0.2183
10	1	50		-	23.39	-		
10	25	12		-	23.18	-		
10	1	0		-	22.89	-		
10	1	51		-	22.85	-		
10	50	0		-	22.71	-		
10	1	1	QPSK	-	23.12	-	23.30	0.2138
10	1	50		-	23.30	-		
10	25	12		-	23.20	-		
10	1	0		-	22.41	-		
10	1	51		-	22.35	-		
10	50	0		-	22.22	-		
10	1	1	16-QAM	-	22.00	-	22.00	0.1585
10	1	1	64-QAM	-	20.54	-		
10	1	1	256-QAM	-	18.62	-		



NR n25 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	24.68	24.49	24.40	24.68	0.2938
5	1	23		24.62	24.36	24.47		
5	12	6		24.56	24.28	24.34		
5	1	0		24.11	23.85	23.80		
5	1	24		24.07	23.89	23.88		
5	25	0		24.11	23.84	23.95		
5	1	1	QPSK	24.62	24.37	24.39	24.89	0.3083
5	1	23		24.89	24.62	24.64		
5	12	6		24.52	24.28	24.35		
5	1	0		23.61	23.34	23.31		
5	1	24		23.60	23.35	23.43		
5	25	0		23.65	23.32	23.38		
5	1	1	16-QAM	23.54	23.38	23.38	23.54	0.2259
5	1	1	64-QAM	22.31	22.09	22.10		
5	1	1	256-QAM	19.65	19.37	19.52		

NR n25 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	24.51	24.30	24.38	24.61	0.2891
10	1	50		24.47	24.23	24.43		
10	25	12		24.61	24.33	24.45		
10	1	0		24.07	23.79	23.93		
10	1	51		23.98	23.73	23.93		
10	50	0		24.10	23.79	24.00		
10	1	1	QPSK	24.47	24.31	24.41	24.65	0.2917
10	1	50		24.45	24.45	24.65		
10	25	12		24.59	24.30	24.40		
10	1	0		23.50	23.50	23.43		
10	1	51		23.59	23.36	23.53		
10	50	0		23.53	23.31	23.40		
10	1	1	16-QAM	23.50	23.27	23.32	23.50	0.2239
10	1	1	64-QAM	22.24	22.03	22.06		
10	1	1	256-QAM	19.53	19.33	19.34		



NR n25 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
15	1	1	PI/2 BPSK	24.71	24.48	24.37	24.71	0.2958
15	1	77		24.60	24.40	24.47		
15	36	18		24.62	24.41	24.43		
15	1	0		24.18	23.99	24.02		
15	1	78		24.09	23.86	23.96		
15	75	0		24.14	23.94	23.92		
15	1	1	QPSK	24.72	24.56	24.57	24.72	0.2965
15	1	77		24.63	24.44	24.66		
15	36	18		24.70	24.39	24.52		
15	1	0		23.75	23.46	23.61		
15	1	78		23.65	23.36	23.54		
15	75	0		23.67	23.41	23.48		
15	1	1	16-QAM	23.64	23.43	23.47	23.64	0.2312
15	1	1	64-QAM	22.36	22.20	22.05		
15	1	1	256-QAM	19.66	19.49	19.40		

NR n25 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
20	1	1	PI/2 BPSK	24.66	24.48	24.33	24.66	0.2924
20	1	104		24.45	24.40	24.50		
20	50	25		24.60	24.46	24.42		
20	1	0		24.16	23.95	23.92		
20	1	105		24.01	23.95	23.94		
20	100	0		24.14	23.91	23.92		
20	1	1	QPSK	24.80	24.45	24.36	24.80	0.3020
20	1	104		24.51	24.30	24.47		
20	50	25		24.64	24.43	24.44		
20	1	0		23.63	23.69	23.62		
20	1	105		23.72	23.55	23.64		
20	100	0		23.63	23.44	23.44		
20	1	1	16-QAM	23.57	23.37	23.33	23.57	0.2275
20	1	1	64-QAM	22.33	22.15	21.98		
20	1	1	256-QAM	19.58	19.46	19.42		



NR n25 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
25	1	1	PI/2 BPSK	24.62	24.54	24.49	24.64	0.2911
25	1	131		24.40	24.55	24.52		
25	64	32		24.64	24.46	24.48		
25	1	0		24.26	24.05	24.00		
25	1	132		23.99	23.97	23.59		
25	128	0		24.07	23.86	24.01		
25	1	1	QPSK	24.79	24.46	24.59	24.79	0.3013
25	1	131		24.31	24.60	24.78		
25	64	32		24.57	24.41	24.50		
25	1	0		23.71	23.56	23.55		
25	1	132		23.54	23.42	23.60		
25	128	0		23.62	23.46	23.50		
25	1	1	16-QAM	23.59	23.47	23.41	23.59	0.2286
25	1	1	64-QAM	22.33	22.20	22.10		
25	1	1	256-QAM	19.67	19.55	19.45		

NR n25 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
30	1	1	PI/2 BPSK	24.62	24.65	24.42	24.65	0.2917
30	1	158		24.50	24.50	24.43		
30	80	40		24.58	24.54	24.48		
30	1	0		24.13	24.10	24.06		
30	1	159		24.04	23.93	24.10		
30	160	0		24.09	24.01	24.00		
30	1	1	QPSK	24.77	24.62	24.48	24.77	0.2999
30	1	158		24.71	24.56	24.26		
30	80	40		24.57	24.48	24.50		
30	1	0		23.66	23.62	23.63		
30	1	159		23.52	23.45	23.67		
30	160	0		23.69	23.57	23.52		
30	1	1	16-QAM	23.62	23.47	23.46	23.62	0.2301
30	1	1	64-QAM	22.26	22.37	22.10		
30	1	1	256-QAM	19.73	19.58	19.50		



NR n25 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
40	1	1	PI/2 BPSK	24.36	24.07	24.23	24.36	0.2729
40	1	214		24.27	24.26	24.22		
40	108	54		24.13	24.32	24.32		
40	1	0		23.90	23.69	23.81		
40	1	215		23.68	23.82	23.66		
40	216	0		23.60	23.62	23.83		
40	1	1	QPSK	24.35	24.14	23.97	24.41	0.2761
40	1	214		24.22	24.30	24.00		
40	108	54		24.16	24.21	24.41		
40	1	0		23.34	23.22	22.80		
40	1	215		23.23	23.31	23.00		
40	216	0		23.18	23.17	23.31		
40	1	1	16-QAM	23.27	23.06	22.91	23.27	0.2123
40	1	1	64-QAM	22.04	21.84	21.80		
40	1	1	256-QAM	19.42	19.15	19.38		



NR n26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	23.98	23.67	23.42	23.98	0.2500
5	1	23		23.86	23.53	23.34		
5	12	6		23.88	23.64	23.37		
5	1	0		23.40	23.14	22.84		
5	1	24		23.27	23.03	22.80		
5	25	0		23.46	23.15	22.86		
5	1	1	QPSK	24.12	23.67	23.51	24.12	0.2582
5	1	23		23.76	23.53	23.27		
5	12	6		23.78	23.64	23.25		
5	1	0		22.82	22.68	22.30		
5	1	24		22.71	22.51	22.25		
5	25	0		22.80	22.66	22.36		
5	1	1	16-QAM	22.73	22.65	22.33	22.73	0.1875
5	1	1	64-QAM	21.30	21.31	20.95		
5	1	1	256-QAM	18.91	18.77	18.47		

NR n26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	23.87	23.73	23.45	23.87	0.2438
10	1	50		23.59	23.58	23.25		
10	25	12		23.84	23.69	23.33		
10	1	0		23.37	23.24	22.81		
10	1	51		23.14	23.05	22.78		
10	50	0		23.36	23.23	22.90		
10	1	1	QPSK	23.97	23.80	23.56	23.97	0.2495
10	1	50		23.84	23.67	23.32		
10	25	12		23.87	23.72	23.33		
10	1	0		22.79	22.74	22.40		
10	1	51		22.72	22.57	22.30		
10	50	0		22.90	22.72	22.29		
10	1	1	16-QAM	22.85	22.56	22.49	22.85	0.1928
10	1	1	64-QAM	21.59	21.17	21.06		
10	1	1	256-QAM	18.96	18.67	18.44		



NR n26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
15	1	1	PI/2 BPSK	24.08	23.82	23.81	24.08	0.2559
15	1	77		23.76	23.46	23.47		
15	36	18		23.91	23.70	23.72		
15	1	0		23.56	23.27	23.24		
15	1	78		23.30	22.97	22.78		
15	75	0		23.41	23.29	23.25		
15	1	1	QPSK	24.11	23.98	23.81	24.11	0.2576
15	1	77		23.86	23.74	23.32		
15	36	18		23.98	23.85	23.71		
15	1	0		22.94	22.84	22.65		
15	1	78		22.67	22.67	22.31		
15	75	0		22.84	22.77	22.73		
15	1	1	16-QAM	22.78	22.92	22.65	22.92	0.1959
15	1	1	64-QAM	21.43	21.59	21.31		
15	1	1	256-QAM	18.90	18.95	18.72		

NR n26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
20	1	1	PI/2 BPSK	23.85	23.92	23.90	23.92	0.2466
20	1	104		23.49	23.46	23.34		
20	50	25		23.88	23.68	23.71		
20	1	0		23.25	23.23	23.31		
20	1	105		22.89	22.88	22.79		
20	100	0		23.25	23.19	23.23		
20	1	1	QPSK	23.86	24.03	23.93	24.03	0.2529
20	1	104		23.56	23.50	23.41		
20	50	25		23.81	23.70	23.79		
20	1	0		22.85	22.73	22.77		
20	1	105		22.50	22.54	22.45		
20	100	0		22.80	22.85	22.76		
20	1	1	16-QAM	22.73	22.90	22.90	22.90	0.1950
20	1	1	64-QAM	21.45	21.37	21.50		
20	1	1	256-QAM	18.88	18.83	19.00		



NR n41 HPUE Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
20	1	1	PI/2 BPSK	26.13	26.32	25.72	26.32	0.4285
20	1	49		26.17	26.21	25.07		
20	25	12		26.21	26.31	25.94		
20	1	0		22.63	22.80	22.35		
20	1	50		22.68	22.69	22.49		
20	50	0		25.73	25.81	25.39		
20	1	1	QPSK	26.10	26.27	25.71	26.34	0.4305
20	1	49		26.18	26.20	24.96		
20	25	12		26.17	26.34	25.85		
20	1	0		22.61	22.78	22.40		
20	1	50		22.70	22.74	22.48		
20	50	0		25.21	25.33	24.90		
20	1	1	16-QAM	25.23	25.46	24.89	25.46	0.3516
20	1	1	64-QAM	23.69	23.92	23.31		
20	1	1	256-QAM	21.46	21.61	21.04		

NR n41 HPUE Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
30	1	1	PI/2 BPSK	26.29	26.39	25.83	26.46	0.4426
30	1	76		26.46	26.31	25.30		
30	36	18		26.36	26.35	25.96		
30	1	0		22.76	22.84	22.49		
30	1	77		22.95	22.81	22.70		
30	75	0		25.91	25.93	25.53		
30	1	1	QPSK	26.30	26.34	25.89	26.48	0.4446
30	1	76		26.48	26.35	25.22		
30	36	18		26.33	26.38	25.94		
30	1	0		22.82	22.83	22.42		
30	1	77		22.95	22.84	22.64		
30	75	0		25.42	25.38	24.98		
30	1	1	16-QAM	25.45	25.57	25.09	25.57	0.3606
30	1	1	64-QAM	23.88	23.96	23.51		
30	1	1	256-QAM	21.57	21.77	21.23		



NR n41 HPUE Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
40	1	1	PI/2 BPSK	26.30	26.47	25.80	26.47	0.4436
40	1	104		26.42	26.34	25.33		
40	50	25		26.29	26.38	25.82		
40	1	0		22.78	22.99	22.60		
40	1	105		23.02	22.80	22.70		
40	100	0		25.89	25.88	25.33		
40	1	1	QPSK	26.30	26.45	25.78	26.45	0.4416
40	1	104		26.42	26.28	25.24		
40	50	25		26.31	26.38	25.79		
40	1	0		22.83	22.94	22.55		
40	1	105		23.04	22.75	22.64		
40	100	0		25.37	25.41	24.87		
40	1	1	16-QAM	25.40	25.58	25.01	25.58	0.3614
40	1	1	64-QAM	25.37	24.06	23.48		
40	1	1	256-QAM	21.64	21.80	21.08		

NR n41 HPUE Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
50	1	1	PI/2 BPSK	26.30	26.28	25.96	26.44	0.4406
50	1	131		26.37	26.13	25.40		
50	64	32		26.44	26.26	25.80		
50	1	0		22.83	22.78	22.56		
50	1	132		22.91	22.58	22.56		
50	128	0		25.92	25.74	25.44		
50	1	1	QPSK	26.36	26.26	26.02	26.41	0.4375
50	1	131		26.41	26.20	25.30		
50	64	32		26.39	26.27	25.80		
50	1	0		22.83	22.79	22.57		
50	1	132		22.87	22.61	22.54		
50	128	0		25.43	25.26	24.94		
50	1	1	16-QAM	25.38	25.46	25.18	25.46	0.3516
50	1	1	64-QAM	23.79	23.81	23.58		
50	1	1	256-QAM	21.70	21.61	21.39		



NR n41 HPUE Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
60	1	1	PI/2 BPSK	26.21	26.29	25.88	26.30	0.4266
60	1	160		26.28	25.91	25.34		
60	81	40		26.30	26.25	25.79		
60	1	0		22.73	22.77	22.40		
60	1	161		22.79	22.45	22.41		
60	162	0		25.82	25.74	25.29		
60	1	1	QPSK	26.16	26.29	25.87	26.31	0.4276
60	1	160		26.19	25.94	25.23		
60	81	40		26.31	26.25	25.71		
60	1	0		22.63	22.69	22.36		
60	1	161		22.73	22.41	22.44		
60	162	0		25.36	25.27	24.79		
60	1	1	16-QAM	25.39	25.39	25.04	25.39	0.3459
60	1	1	64-QAM	23.75	23.82	23.47		
60	1	1	256-QAM	21.57	21.59	21.25		

NR n41 HPUE Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
80	1	1	PI/2 BPSK	26.09	26.20	25.95	26.20	0.4169
80	1	215		26.04	25.85	25.28		
80	108	54		26.16	26.19	25.80		
80	1	0		22.56	22.73	22.28		
80	1	216		22.55	22.34	22.50		
80	216	0		25.63	25.77	25.33		
80	1	1	QPSK	26.14	26.26	25.94	26.26	0.4227
80	1	215		26.02	25.88	25.24		
80	108	54		26.16	26.23	25.61		
80	1	0		22.52	22.76	22.28		
80	1	216		22.61	25.83	22.38		
80	216	0		25.11	25.24	24.82		
80	1	1	16-QAM	25.20	25.24	25.12	25.24	0.3342
80	1	1	64-QAM	23.50	23.84	23.50		
80	1	1	256-QAM	21.72	21.82	21.30		



NR n41 HPUE Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
90	1	1	PI/2 BPSK	26.15	26.23	26.01	26.23	0.4198
90	1	243		26.09	25.91	25.22		
90	120	60		26.19	26.22	25.85		
90	1	0		22.58	22.79	22.38		
90	1	244		22.51	22.38	22.41		
90	243	0		25.64	25.72	25.31		
90	1	1	QPSK	26.16	26.21	26.02	26.21	0.4178
90	1	243		26.04	26.00	25.18		
90	120	60		26.15	26.21	25.83		
90	1	0		22.57	22.78	22.31		
90	1	244		22.51	22.39	22.40		
90	243	0		25.22	25.23	24.96		
90	1	1	16-QAM	25.31	25.49	25.24	25.49	0.3540
90	1	1	64-QAM	23.74	23.84	23.64		
90	1	1	256-QAM	21.27	21.67	21.35		

NR n41 HPUE Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
100	1	1	PI/2 BPSK	26.22	26.33	26.05	26.33	0.4295
100	1	271		26.06	25.76	25.30		
100	135	67		26.16	26.25	25.86		
100	1	0		22.58	22.87	22.38		
100	1	272		22.57	22.27	22.52		
100	270	0		25.61	25.67	25.44		
100	1	1	QPSK	26.14	26.30	26.05	26.30	0.4266
100	1	271		26.16	25.79	25.16		
100	135	67		26.12	26.23	25.86		
100	1	0		22.62	22.82	22.45		
100	1	272		22.68	22.23	22.58		
100	270	0		25.08	25.20	24.92		
100	1	1	16-QAM	25.26	25.46	25.26	25.46	0.3516
100	1	1	64-QAM	23.67	23.85	23.45		
100	1	1	256-QAM	21.57	21.64	21.36		



NR n66 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	24.42	24.05	23.94	24.42	0.2767
5	1	23		24.36	24.00	23.90		
5	12	6		24.40	24.01	23.95		
5	1	0		23.87	23.50	23.36		
5	1	24		23.88	23.50	23.40		
5	25	0		23.91	23.54	23.45		
5	1	1	QPSK	24.38	24.02	23.93	24.38	0.2742
5	1	23		24.30	24.04	24.06		
5	12	6		24.34	23.99	23.88		
5	1	0		23.38	23.10	22.97		
5	1	24		23.33	23.02	22.90		
5	25	0		23.31	23.02	22.87		
5	1	1	16-QAM	23.30	23.10	22.85	23.30	0.2138
5	1	1	64-QAM	22.05	21.77	21.63		
5	1	1	256-QAM	19.37	19.09	18.93		

NR n66 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	24.33	24.02	23.92	24.40	0.2754
10	1	50		24.20	23.99	23.88		
10	25	12		24.40	24.06	23.93		
10	1	0		23.87	23.46	23.41		
10	1	51		23.81	23.49	23.33		
10	50	0		23.83	23.56	23.48		
10	1	1	QPSK	24.50	24.00	23.91	24.50	0.2818
10	1	50		24.28	23.96	24.05		
10	25	12		24.36	24.03	23.87		
10	1	0		23.35	22.96	22.93		
10	1	51		23.25	22.99	22.92		
10	50	0		23.35	23.05	22.96		
10	1	1	16-QAM	23.23	22.94	22.89	23.23	0.2104
10	1	1	64-QAM	22.04	21.72	21.62		
10	1	1	256-QAM	19.34	19.01	18.89		



NR n66 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
15	1	1	PI/2 BPSK	24.42	24.22	24.02	24.49	0.2812
15	1	77		24.40	24.07	24.01		
15	36	18		24.49	24.23	23.90		
15	1	0		23.90	23.65	23.41		
15	1	78		23.84	23.62	23.46		
15	75	0		23.80	23.68	23.43		
15	1	1	QPSK	24.52	24.28	23.95	24.52	0.2831
15	1	77		24.50	24.25	23.93		
15	36	18		24.37	24.18	23.99		
15	1	0		23.40	23.17	22.96		
15	1	78		23.34	23.16	23.05		
15	75	0		23.35	23.18	23.00		
15	1	1	16-QAM	23.46	23.14	22.94	23.46	0.2218
15	1	1	64-QAM	22.10	21.80	21.68		
15	1	1	256-QAM	19.48	19.12	18.90		

NR n66 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
20	1	1	PI/2 BPSK	24.45	24.16	24.03	24.45	0.2786
20	1	104		24.22	24.07	24.06		
20	50	25		24.32	24.20	23.96		
20	1	0		23.87	23.59	23.53		
20	1	105		23.72	23.61	23.50		
20	100	0		23.81	23.65	23.46		
20	1	1	QPSK	24.62	24.15	24.14	24.62	0.2897
20	1	104		24.40	24.34	24.08		
20	50	25		24.27	24.20	24.00		
20	1	0		23.30	23.22	23.14		
20	1	105		23.42	23.31	23.31		
20	100	0		23.44	23.14	23.01		
20	1	1	16-QAM	23.36	23.05	22.94	23.36	0.2168
20	1	1	64-QAM	22.10	21.82	21.68		
20	1	1	256-QAM	19.40	19.05	18.92		



NR n66 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
25	1	1	PI/2 BPSK	23.92	24.17	24.04	24.42	0.2767
25	1	131		24.42	24.10	23.95		
25	64	32		24.23	24.18	23.94		
25	1	0		23.76	23.77	23.59		
25	1	132		23.80	23.74	23.52		
25	128	0		23.78	23.63	23.45		
25	1	1	QPSK	23.96	24.20	24.05	24.28	0.2679
25	1	131		24.22	20.35	24.09		
25	64	32		24.28	24.14	24.02		
25	1	0		23.56	23.32	23.07		
25	1	132		23.45	23.05	23.04		
25	128	0		23.39	23.14	23.03		
25	1	1	16-QAM	22.97	23.25	23.04	23.25	0.2113
25	1	1	64-QAM	21.71	21.90	21.72		
25	1	1	256-QAM	19.11	19.18	19.02		

NR n66 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
30	1	1	PI/2 BPSK	24.31	24.17	23.62	24.31	0.2698
30	1	158		24.23	24.13	23.94		
30	80	40		24.30	24.14	24.04		
30	1	0		23.84	23.56	22.29		
30	1	159		23.79	23.62	23.46		
30	160	0		24.00	23.75	23.65		
30	1	1	QPSK	24.30	24.14	23.69	24.41	0.2761
30	1	158		24.41	24.27	24.08		
30	80	40		24.39	24.10	24.12		
30	1	0		23.68	23.08	22.38		
30	1	159		23.36	23.12	23.03		
30	160	0		23.46	23.20	23.19		
30	1	1	16-QAM	23.36	23.15	22.90	23.36	0.2168
30	1	1	64-QAM	21.97	21.85	21.70		
30	1	1	256-QAM	19.57	19.30	19.11		



NR n66 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
40	1	1	PI/2 BPSK	24.25	24.26	23.97	24.35	0.2723
40	1	214		24.06	24.13	23.98		
40	108	54		24.35	24.14	24.13		
40	1	0		23.94	23.63	23.56		
40	1	215		23.56	23.62	23.44		
40	216	0		23.89	23.78	23.58		
40	1	1	QPSK	24.36	24.23	23.98	24.36	0.2729
40	1	214		24.08	24.29	23.89		
40	108	54		24.34	24.18	24.16		
40	1	0		23.35	23.10	23.07		
40	1	215		23.06	23.12	22.93		
40	216	0		23.38	23.26	23.12		
40	1	1	16-QAM	22.40	23.24	23.09	23.24	0.2109
40	1	1	64-QAM	21.60	21.88	21.70		
40	1	1	256-QAM	19.55	19.39	19.25		



NR n70 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	23.57	23.56	23.58	23.68	0.2333
5	1	23		23.55	23.52	23.60		
5	12	6		23.68	23.48	23.61		
5	1	0		23.10	22.98	23.12		
5	1	24		22.98	22.93	22.95		
5	25	0		23.11	22.98	23.15		
5	1	1	QPSK	23.61	23.48	23.54	23.70	0.2344
5	1	23		23.59	23.70	23.56		
5	12	6		23.49	23.44	23.42		
5	1	0		23.54	22.48	22.49		
5	1	24		22.52	22.44	22.48		
5	25	0		22.58	22.45	22.52		
5	1	1	16-QAM	22.52	22.50	22.49	22.52	0.1786
5	1	1	64-QAM	21.24	21.23	21.16		
5	1	1	256-QAM	18.57	18.60	18.63		

NR n70 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	23.52	23.46	23.54	23.58	0.2280
10	1	50		23.42	23.55	23.46		
10	25	12		23.51	23.51	23.58		
10	1	0		23.01	22.99	23.07		
10	1	51		22.98	22.87	23.02		
10	50	0		23.08	23.02	23.06		
10	1	1	QPSK	23.57	23.61	23.62	23.70	0.2344
10	1	50		23.70	23.62	23.64		
10	25	12		23.55	23.52	23.51		
10	1	0		22.54	22.49	22.50		
10	1	51		22.39	22.35	22.45		
10	50	0		22.58	22.46	22.56		
10	1	1	16-QAM	22.49	22.41	22.63	22.63	0.1832
10	1	1	64-QAM	21.21	21.12	21.25		
10	1	1	256-QAM	18.52	18.48	18.63		



NR n70 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
15	1	1	PI/2 BPSK	-	23.66	-	23.74	0.2366
15	1	77		-	23.60	-		
15	36	18		-	23.74	-		
15	1	0		-	23.24	-		
15	1	78		-	23.08	-		
15	75	0		-	23.23	-		
15	1	1	QPSK	-	23.83	-	23.83	0.2415
15	1	77		-	23.76	-		
15	36	18		-	23.73	-		
15	1	0		-	22.70	-		
15	1	78		-	22.67	-		
15	75	0		-	22.67	-		
15	1	1	16-QAM	-	22.61	-	22.61	0.1824
15	1	1	64-QAM	-	21.30	-		
15	1	1	256-QAM	-	18.72	-		



NR n71 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
5	1	1	PI/2 BPSK	24.09	24.18	24.43	24.56	0.2858
5	1	23		24.00	24.20	24.45		
5	12	6		23.95	24.26	24.56		
5	1	0		23.19	23.67	24.06		
5	1	24		23.59	23.70	23.98		
5	25	0		23.70	23.71	24.04		
5	1	1	QPSK	24.32	24.10	24.41	24.72	0.2965
5	1	23		24.33	24.15	24.72		
5	12	6		23.87	24.19	24.55		
5	1	0		22.67	23.19	23.57		
5	1	24		23.10	23.36	23.47		
5	25	0		23.05	23.18	23.47		
5	1	1	16-QAM	23.12	23.10	23.42	23.42	0.2198
5	1	1	64-QAM	21.82	21.80	22.13		
5	1	1	256-QAM	19.15	19.26	19.43		

NR n71 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
10	1	1	PI/2 BPSK	24.02	24.08	24.36	24.50	0.2818
10	1	50		24.10	24.35	24.50		
10	25	12		24.15	24.22	24.48		
10	1	0		23.86	23.80	24.14		
10	1	51		23.60	23.80	24.03		
10	50	0		23.59	23.73	23.98		
10	1	1	QPSK	24.01	24.28	24.55	24.55	0.2851
10	1	50		24.27	24.28	24.50		
10	25	12		24.21	24.20	24.50		
10	1	0		23.31	23.38	23.58		
10	1	51		23.20	23.80	23.63		
10	50	0		23.18	23.24	23.46		
10	1	1	16-QAM	22.95	23.13	23.33	23.33	0.2153
10	1	1	64-QAM	21.85	21.81	22.11		
10	1	1	256-QAM	19.19	19.12	19.37		



NR n71 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
15	1	1	PI/2 BPSK	24.18	24.23	24.35	24.51	0.2825
15	1	77		24.22	24.42	24.51		
15	36	18		24.19	24.36	24.39		
15	1	0		23.90	23.94	24.04		
15	1	78		23.69	23.90	23.94		
15	75	0		23.61	23.86	24.02		
15	1	1	QPSK	24.33	24.22	24.40	24.54	0.2844
15	1	77		24.40	24.37	24.54		
15	36	18		24.20	24.38	24.46		
15	1	0		23.39	23.44	23.56		
15	1	78		23.32	23.39	23.47		
15	75	0		23.20	23.32	23.46		
15	1	1	16-QAM	23.05	23.18	23.34	23.34	0.2158
15	1	1	64-QAM	21.83	22.02	22.03		
15	1	1	256-QAM	19.15	19.26	19.37		

NR n71 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	Maximum Output Power (dBm)	Maximum Output Power (W)
20	1	1	PI/2 BPSK	24.12	24.27	24.35	24.54	0.2844
20	1	104		24.32	24.50	24.54		
20	50	25		24.19	24.32	24.45		
20	1	0		24.01	24.03	24.00		
20	1	105		23.66	23.96	24.03		
20	100	0		23.75	23.86	23.89		
20	1	1	QPSK	24.27	24.05	24.30	24.64	0.2911
20	1	104		24.43	24.60	24.64		
20	50	25		24.24	24.37	24.47		
20	1	0		23.58	23.56	23.56		
20	1	105		23.39	23.62	23.50		
20	100	0		23.37	23.30	23.48		
20	1	1	16-QAM	23.05	23.06	23.35	23.35	0.2163
20	1	1	64-QAM	21.92	21.69	21.97		
20	1	1	256-QAM	19.17	19.16	19.22		



<MIMO Mode>

NR n41 Maximum Average Power [dBm]														
BW	RB	RB	Mod	Antenna 2			Antenna 0			Combine			Maximum Output Power	Maximum Output Power
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	22.27	22.00	21.15	21.52	21.35	20.83	24.92	24.70	24.00	24.98	0.3148
20	1	49		22.41	22.00	21.30	21.48	21.13	20.86	24.98	24.60	24.10		
20	25	12		22.39	22.05	21.47	21.50	21.28	21.03	24.98	24.69	24.27		
20	1	0		20.37	19.98	19.32	19.47	19.31	19.02	22.95	22.67	22.18		
20	1	50		20.57	19.97	19.35	19.46	19.15	18.82	23.06	22.59	22.10		
20	51	0		20.88	20.55	19.98	19.98	19.73	19.41	23.46	23.17	22.71		
20	1	1	16-QAM	21.71	21.43	20.68	21.13	21.00	20.40	24.44	24.23	23.55	24.44	0.2780
20	1	1	64-QAM	20.29	19.99	19.21	19.31	19.18	18.69	22.84	22.61	21.97		
20	1	1	256-QAM	17.41	17.13	16.42	16.63	16.35	15.90	20.05	19.77	19.18		

NR n41 Maximum Average Power [dBm]														
BW	RB	RB	Mod	Antenna 2			Antenna 0			Combine			Maximum Output Power	Maximum Output Power
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	22.39	22.00	21.47	21.55	21.20	21.00	25.00	24.63	24.25	25.25	0.3350
30	1	76		22.47	21.90	21.93	21.99	21.30	21.50	25.25	24.62	24.73		
30	39	19		22.56	22.13	21.53	21.55	21.29	20.99	25.09	24.74	24.28		
30	1	0		20.50	20.00	19.74	19.61	19.27	19.14	23.09	22.66	22.46		
30	1	77		20.51	20.13	19.66	19.50	19.18	19.40	23.04	22.69	22.54		
30	78	0		21.13	20.68	20.03	20.06	19.75	19.50	23.64	23.25	22.78		
30	1	1	16-QAM	22.17	21.57	20.90	21.22	20.96	20.66	24.73	24.29	23.79	24.73	0.2972
30	1	1	64-QAM	20.47	20.04	19.36	19.39	19.10	18.83	22.97	22.61	22.11		
30	1	1	256-QAM	17.51	17.11	16.58	16.69	16.34	16.13	20.13	19.75	19.37		

NR n41 Maximum Average Power [dBm]														
BW	RB	RB	Mod	Antenna 2			Antenna 0			Combine			Maximum Output Power	Maximum Output Power
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	22.37	22.08	21.38	21.51	21.32	21.11	24.97	24.73	24.26	25.05	0.3199
40	1	104		22.51	21.87	21.41	21.51	21.24	21.13	25.05	24.58	24.28		
40	53	26		22.47	22.12	21.43	21.47	21.33	20.91	25.01	24.75	24.19		
40	1	0		20.48	20.20	19.64	19.58	19.42	19.25	23.06	22.84	22.46		
40	1	105		20.56	19.95	19.55	19.52	19.12	19.11	23.08	22.57	22.35		
40	106	0		21.10	20.65	20.05	19.99	19.80	19.53	23.59	23.26	22.81		
40	1	1	16-QAM	21.86	21.62	20.98	21.15	21.08	20.74	24.53	24.37	23.87	24.53	0.2838
40	1	1	64-QAM	20.44	20.14	19.47	19.37	19.20	18.87	22.95	22.71	22.19		
40	1	1	256-QAM	17.54	17.22	16.55	16.67	16.48	16.23	20.14	19.88	19.40		

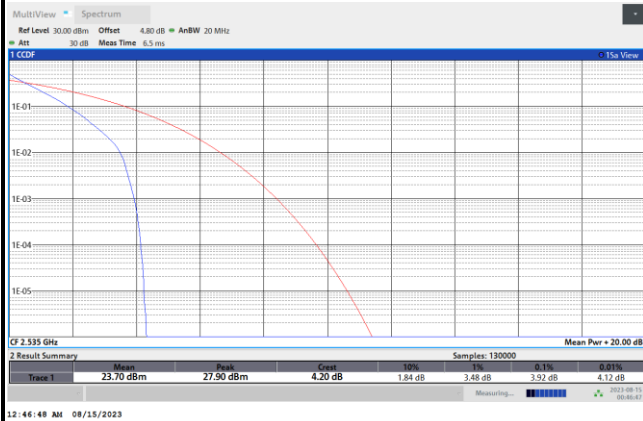
**FR1 n7****Peak-to-Average Ratio**

Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.92	4.50	5.50	5.86	PASS
Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.56				PASS

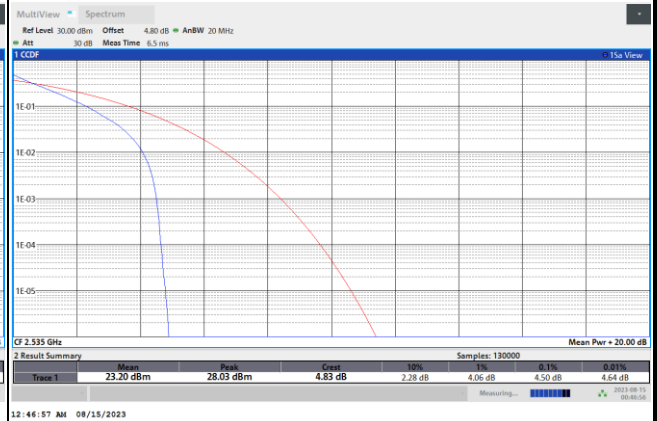


FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

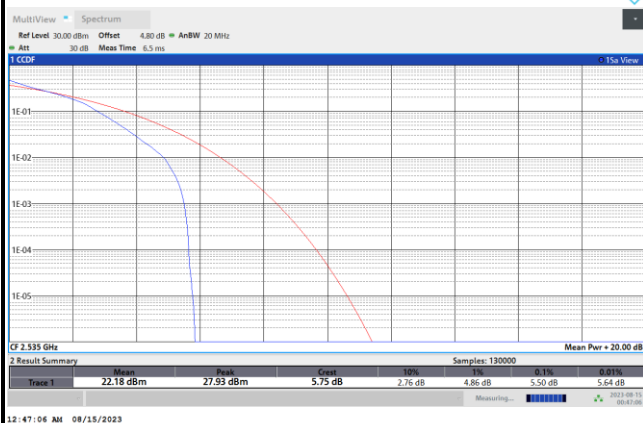
PI/2 BPSK



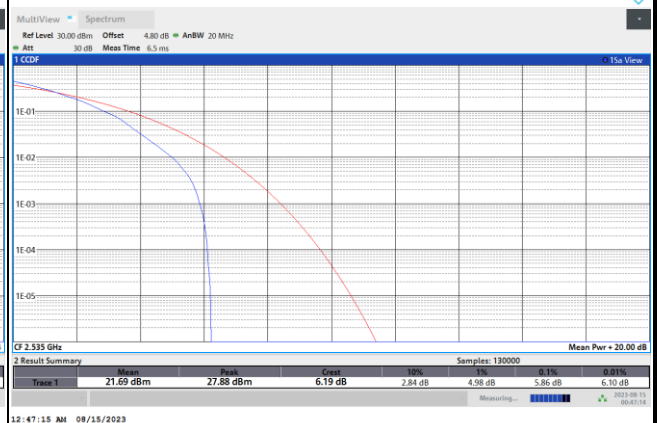
QPSK



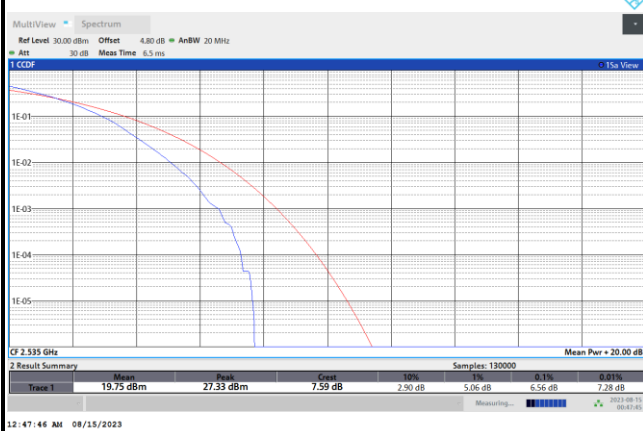
16QAM



64QAM



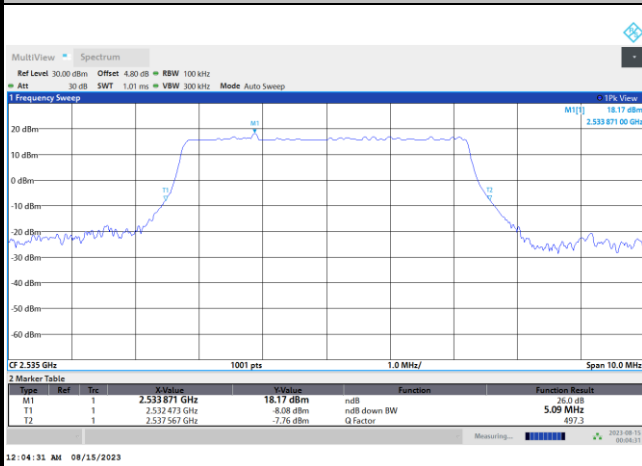
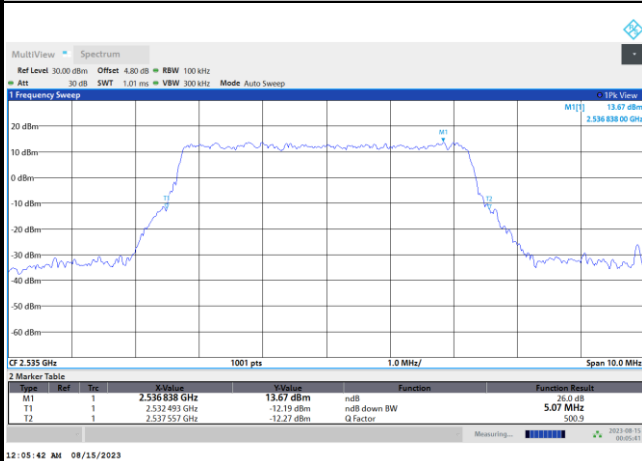
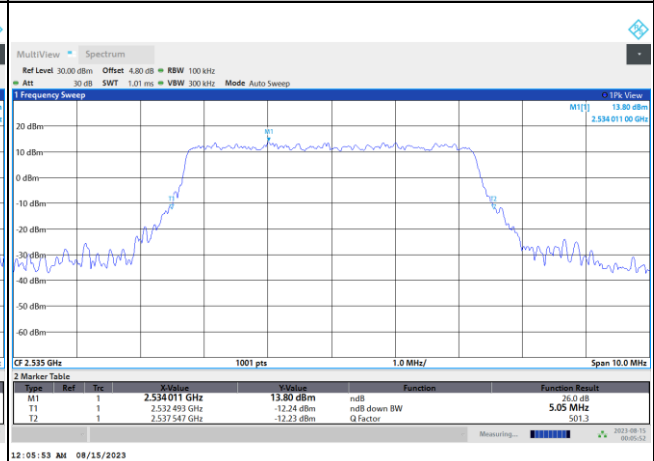
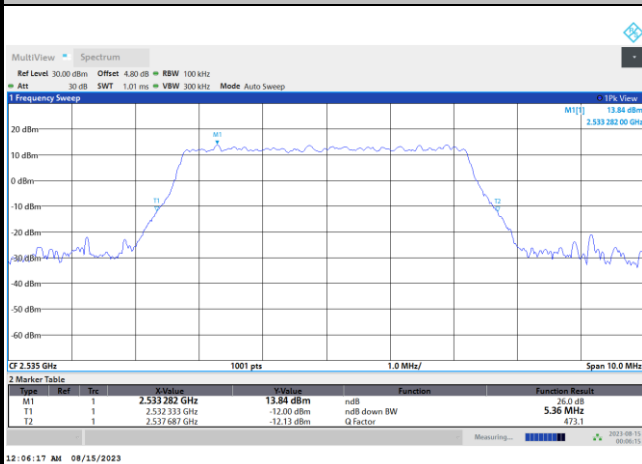
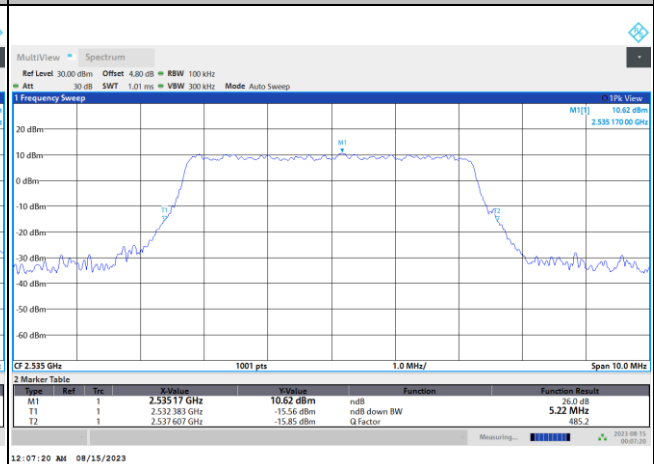
256QAM

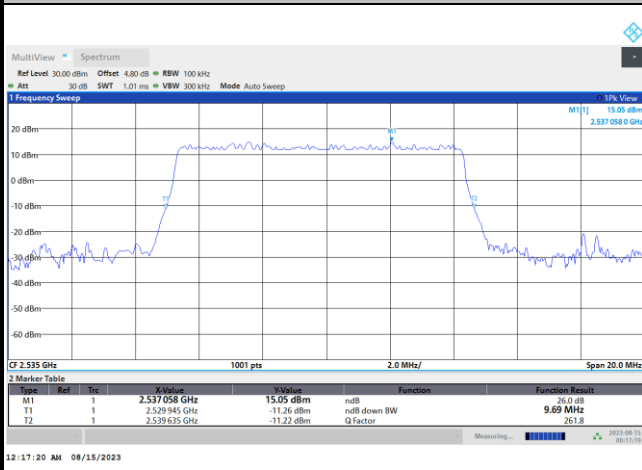
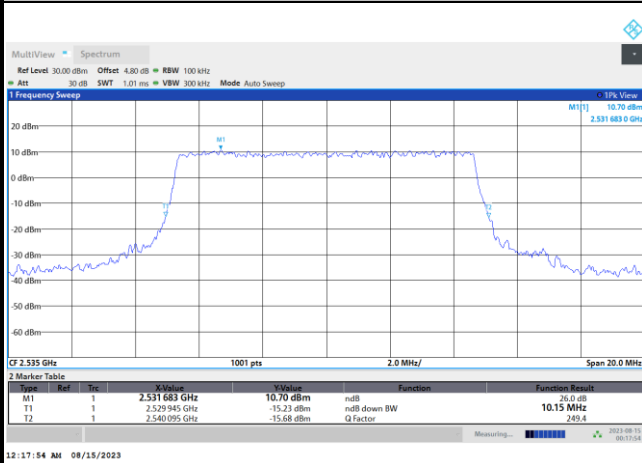
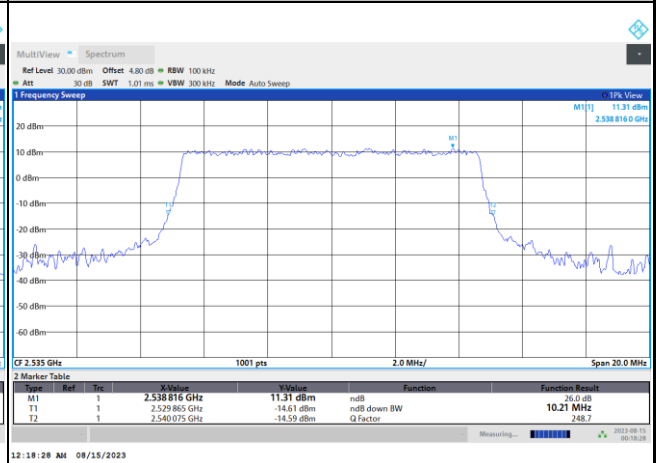
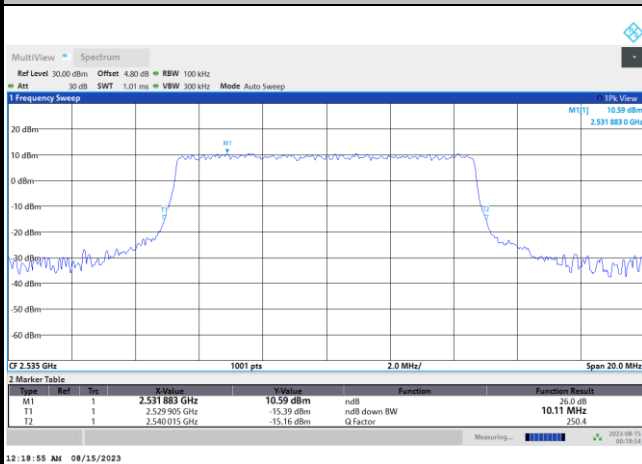
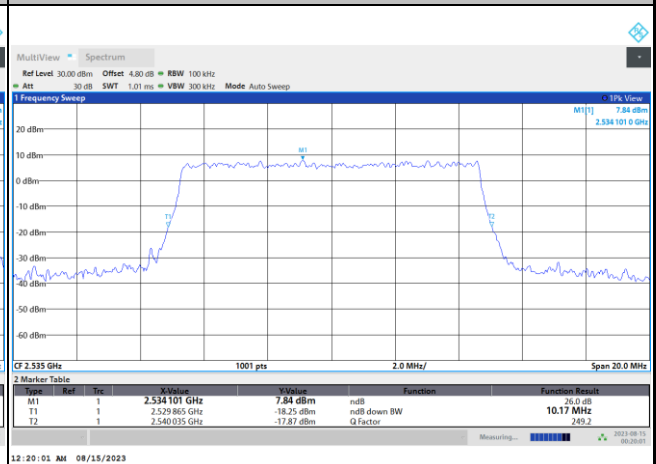


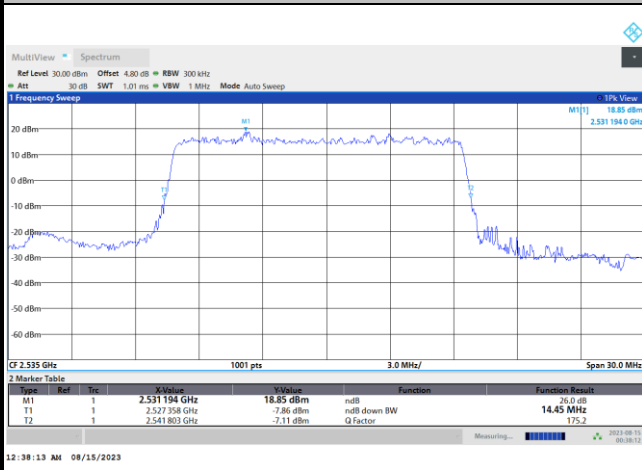
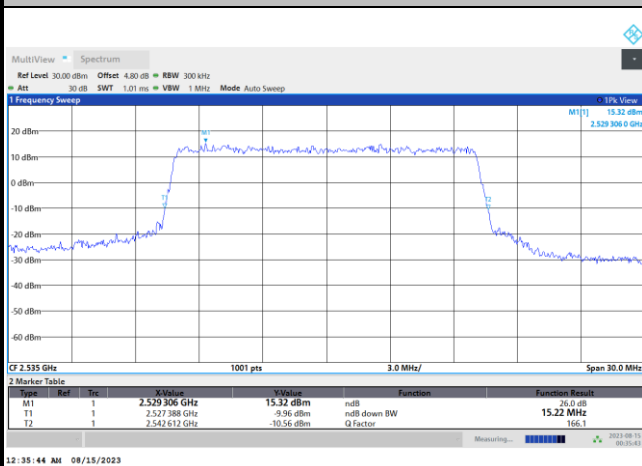
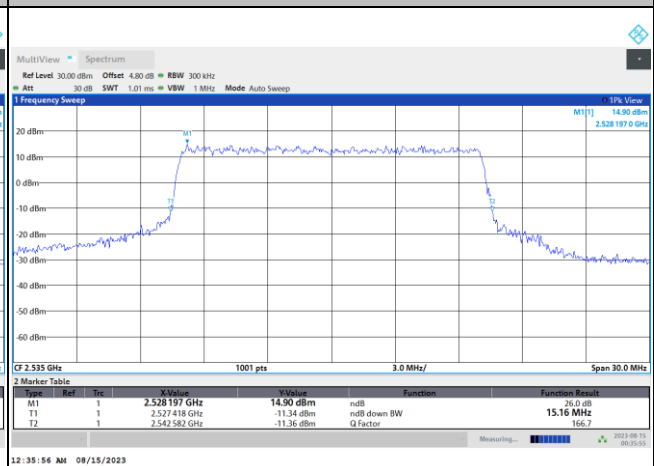
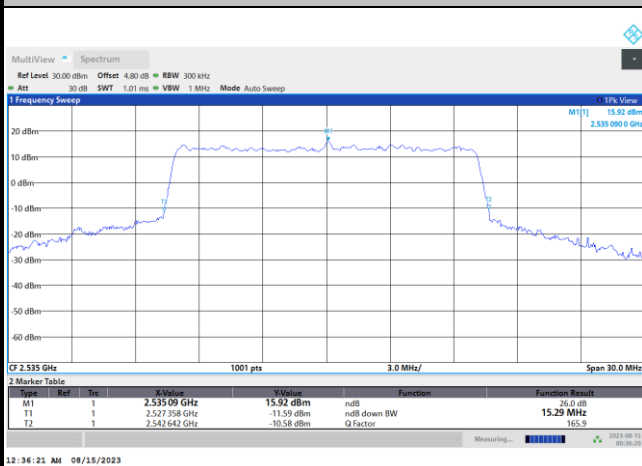
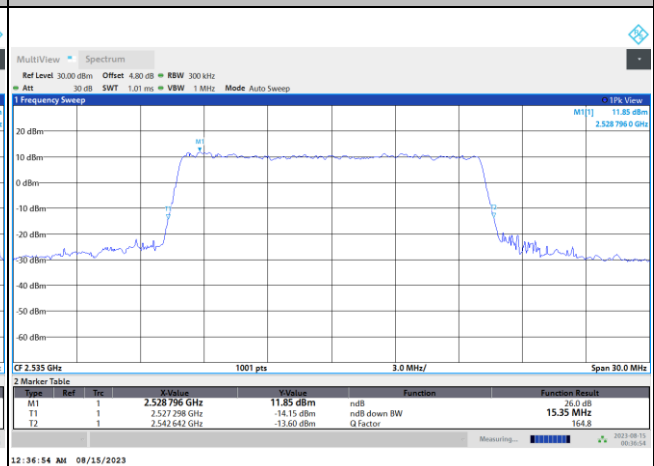
26dB Bandwidth

Mode	FR1 n7 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	5.10		9.69		14.45		18.94	
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	24.03		29.67		41.16		-	

Mode	FR1 n7 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.07	5.06	10.15	10.21	15.23	15.17	20.06	20.06
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.36	5.23	10.11	10.17	15.29	15.35	19.94	20.14
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	24.83	24.88	29.85	29.85	41.24	41.32	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	25.08	24.88	29.79	29.91	41.16	41.16	-	-

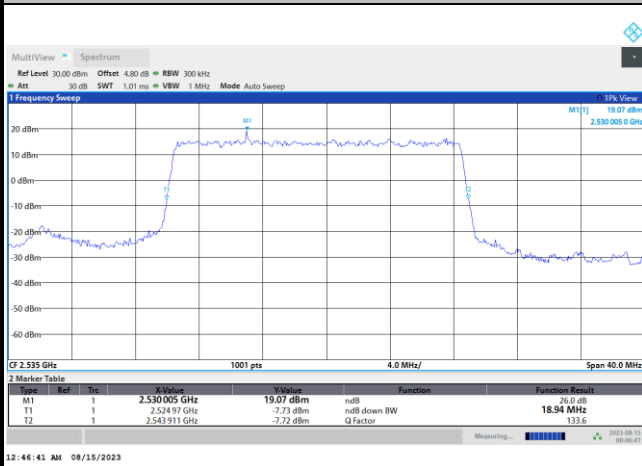
FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


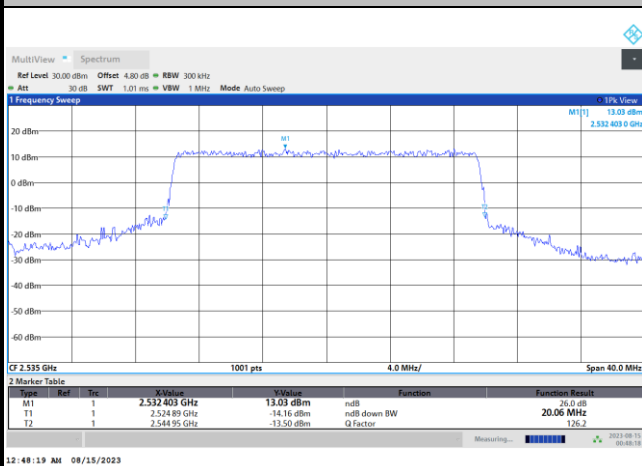
FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

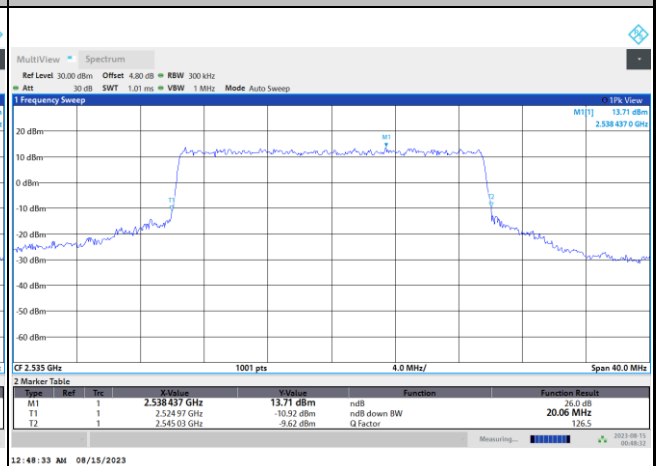


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

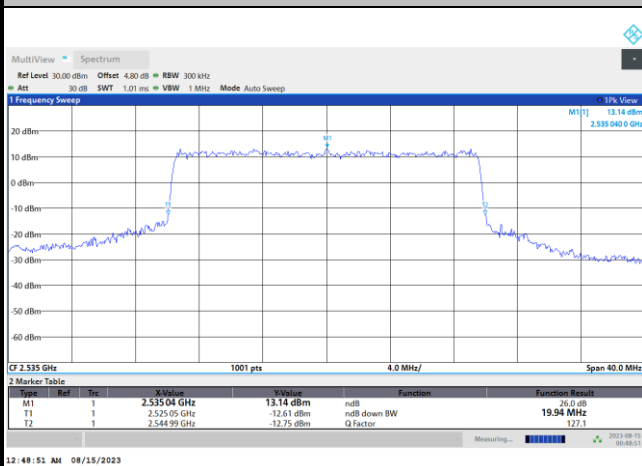
QPSK



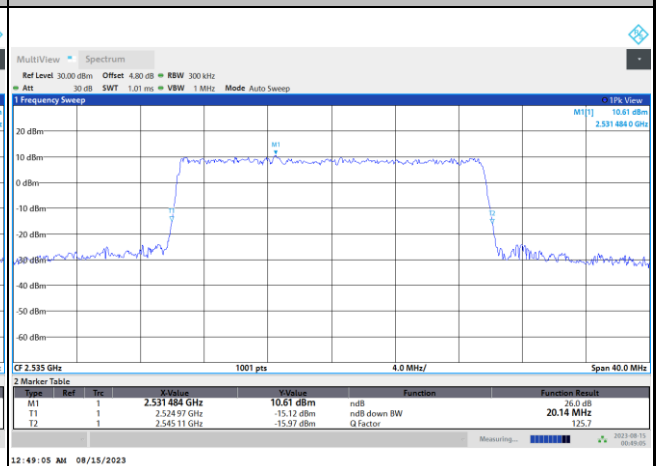
16QAM



64QAM

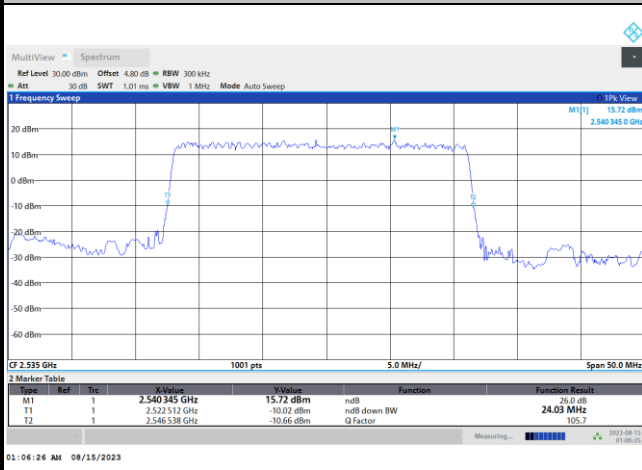


256QAM



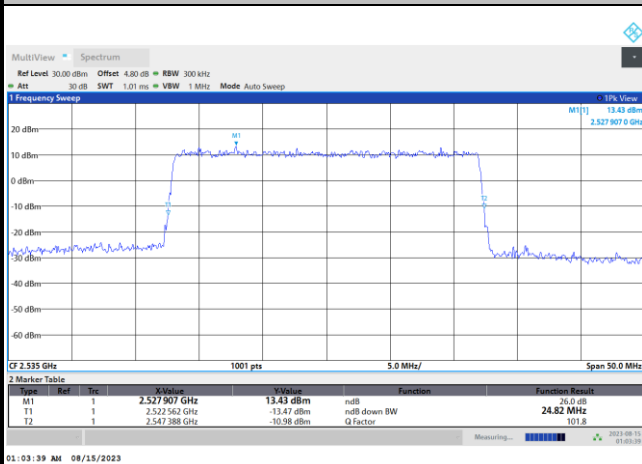
FR1 n7 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

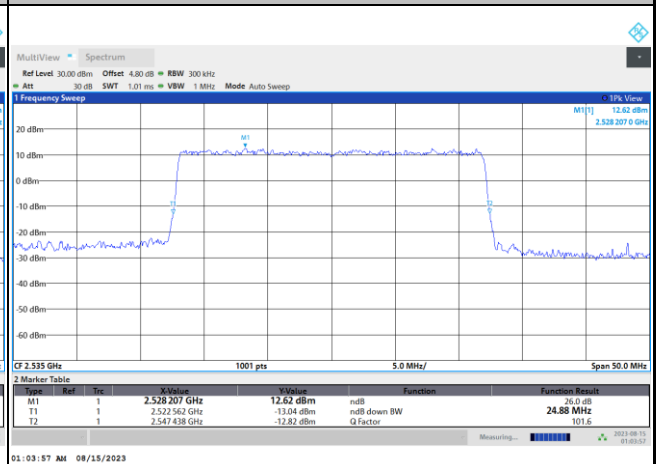


FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

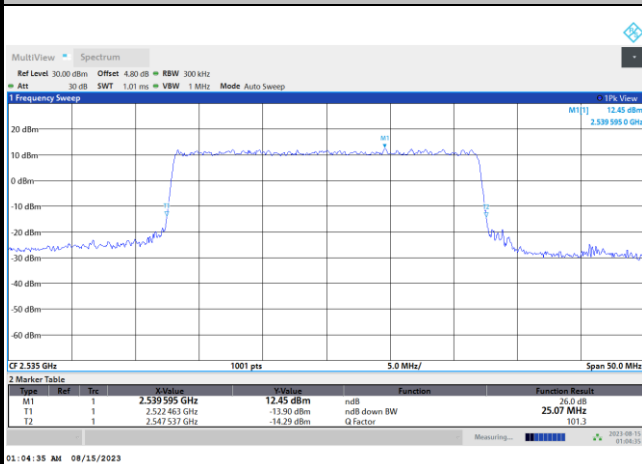
QPSK



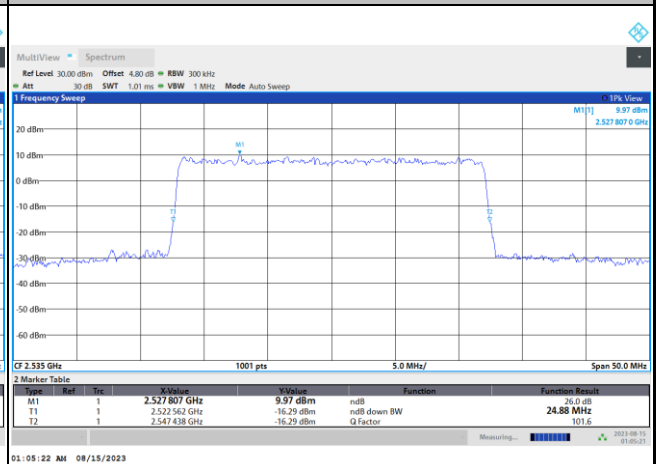
16QAM



64QAM

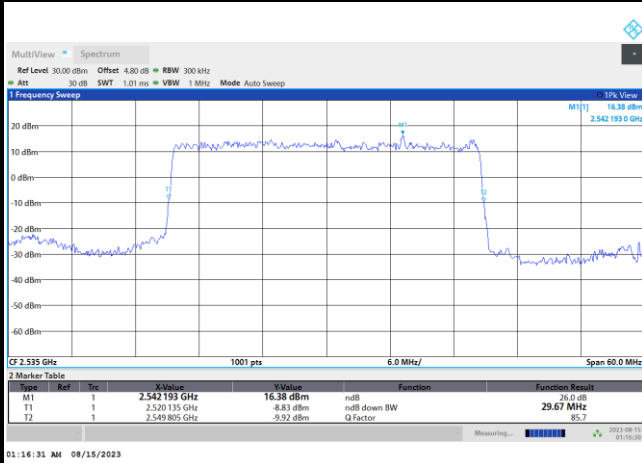


256QAM



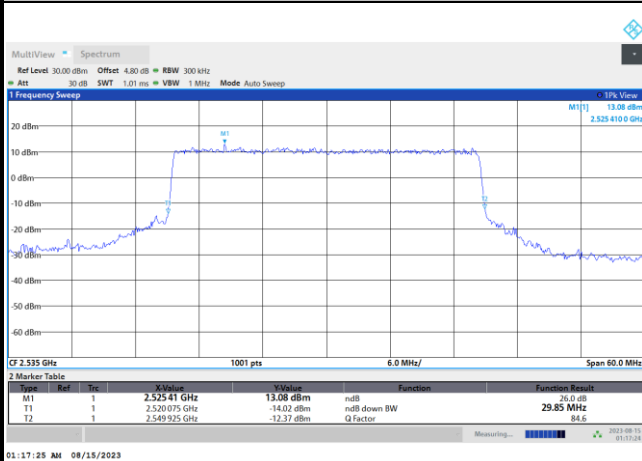
FR1 n7 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

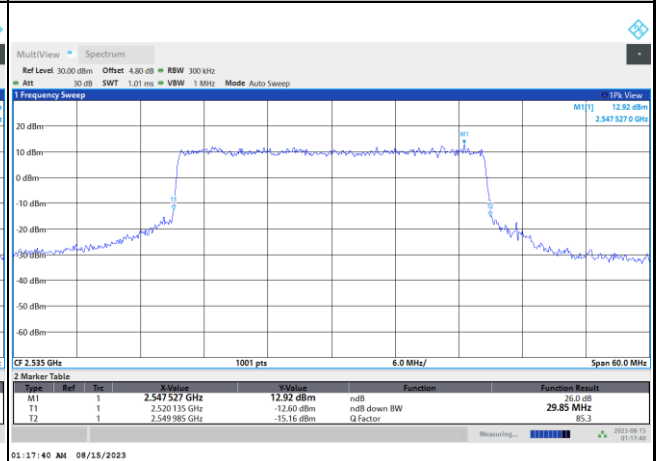


FR1 n7 / 30MHz / CP OFDM / Middle Channel / Full RB

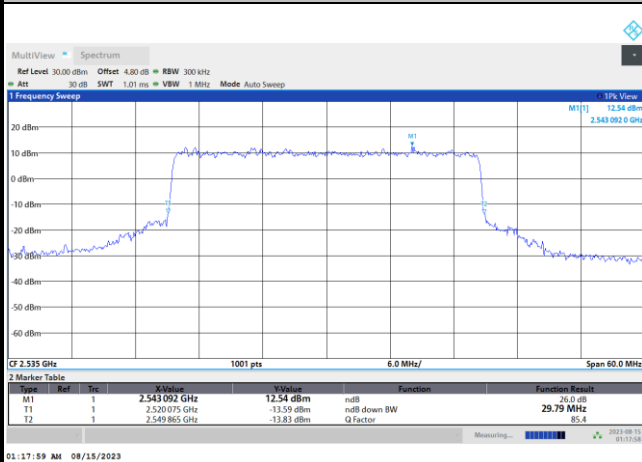
QPSK



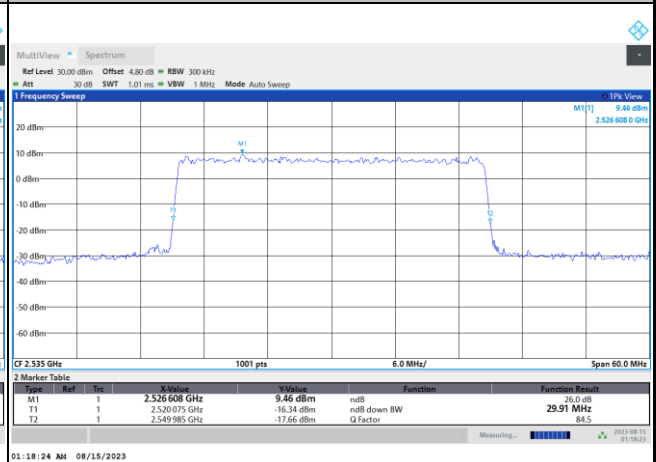
16QAM



64QAM

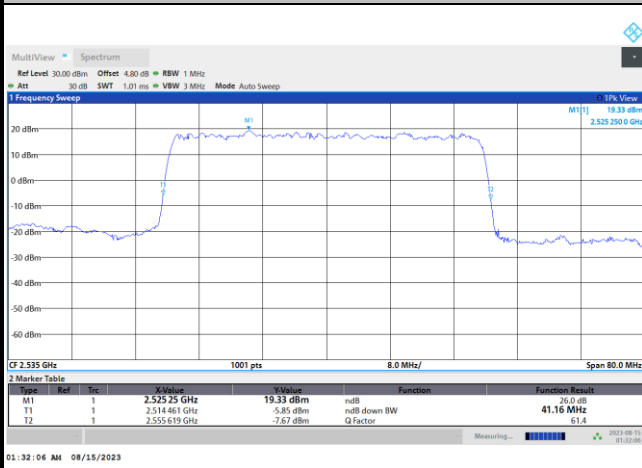


256QAM



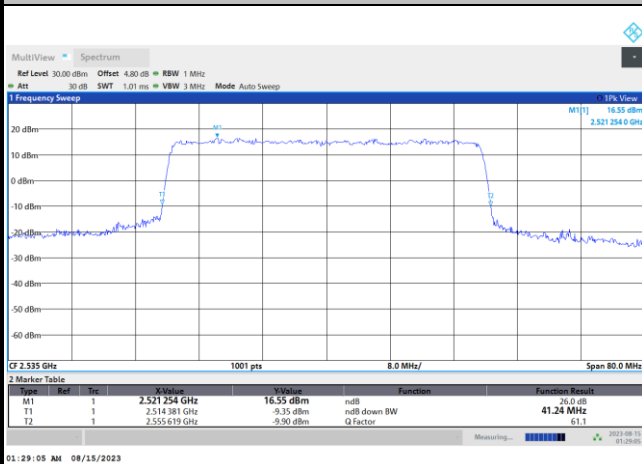
FR1 n7 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

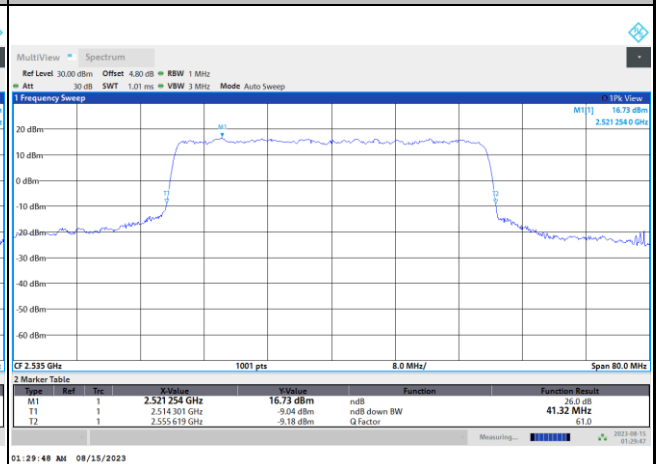


FR1 n7 / 40MHz / CP OFDM / Middle Channel / Full RB

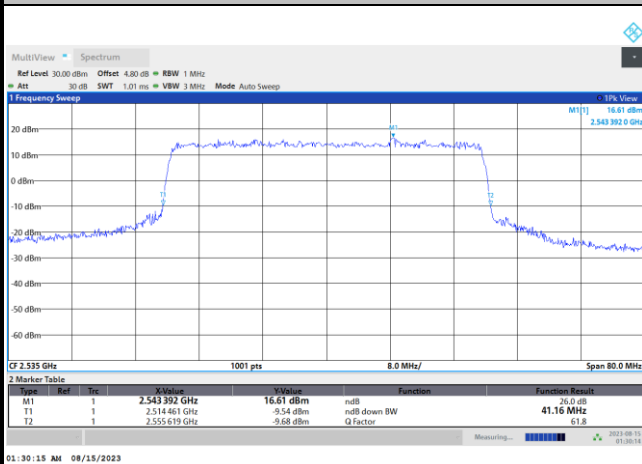
QPSK



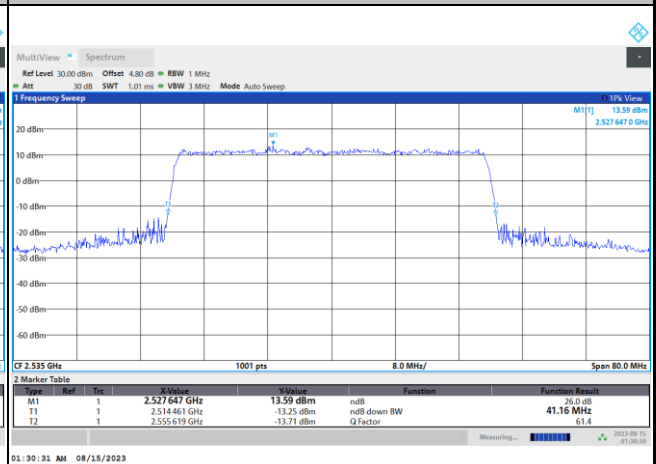
16QAM



64QAM



256QAM



Occupied Bandwidth

Mode	FR1 n7 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.47		8.92		13.47		17.91	
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	22.86		28.55		38.66		-	

Mode	FR1 n7 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.50	4.49	9.29	9.29	14.16	14.16	18.97	18.97
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.50	4.49	9.28	9.31	14.20	14.13	18.97	18.98
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	23.75	23.76	28.56	28.58	38.74	38.75	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	23.73	23.75	28.50	28.59	38.81	38.69	-	-



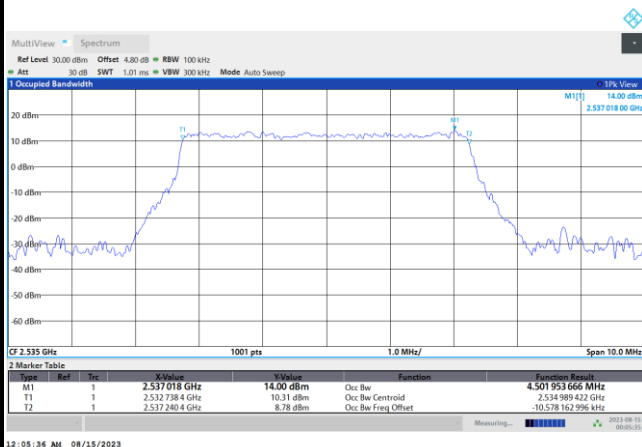
FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

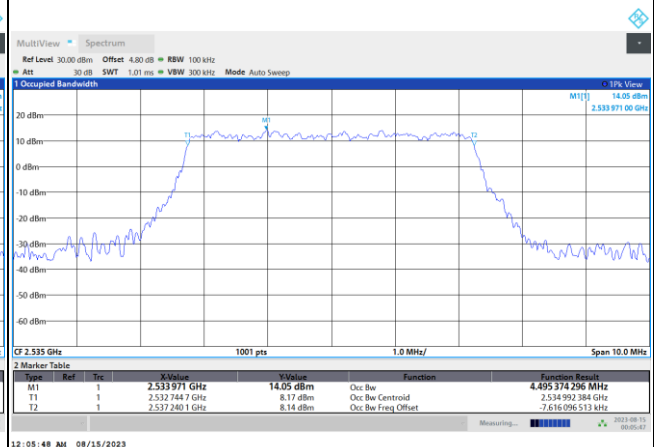


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

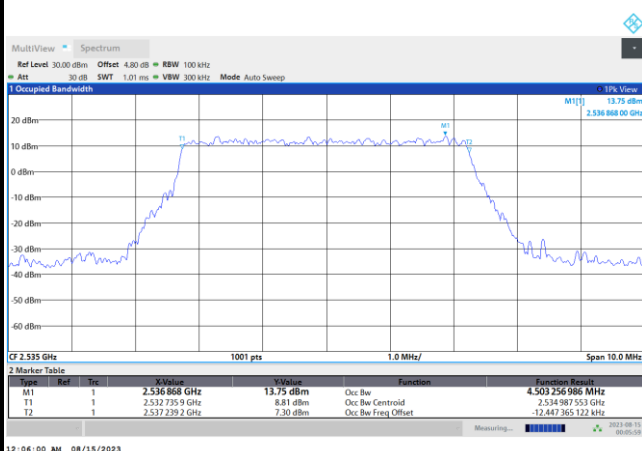
QPSK



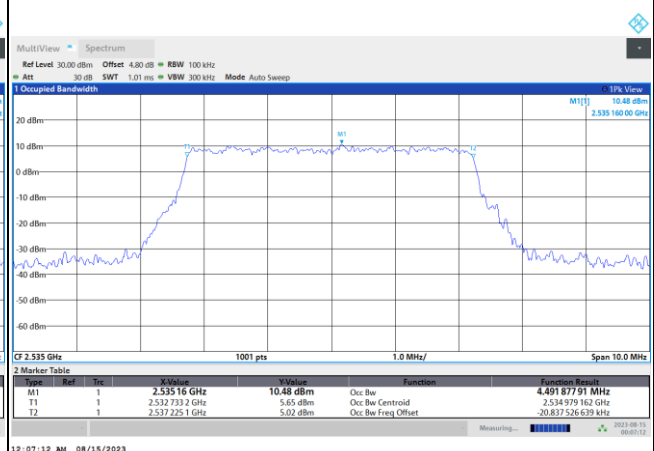
16QAM

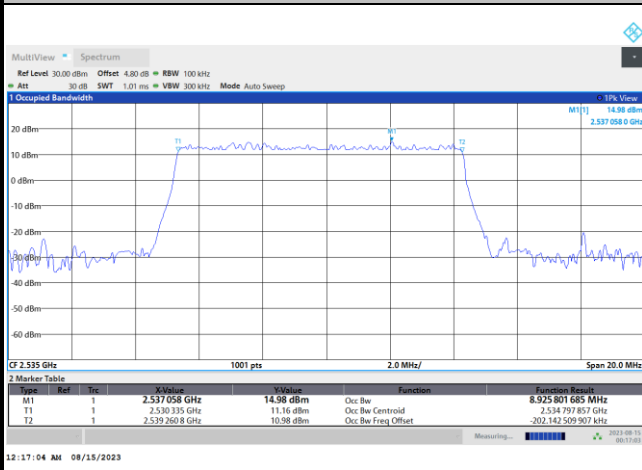
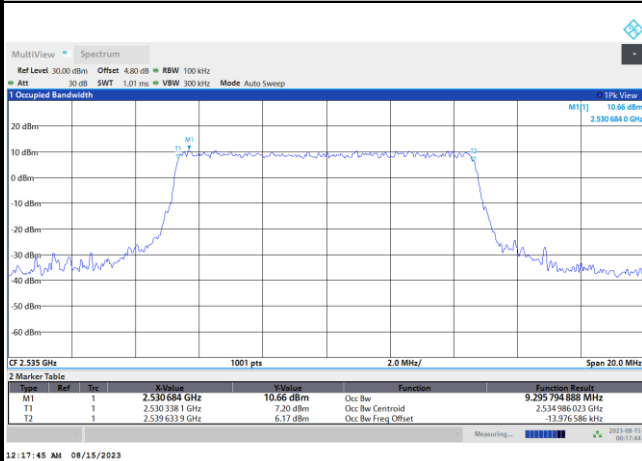
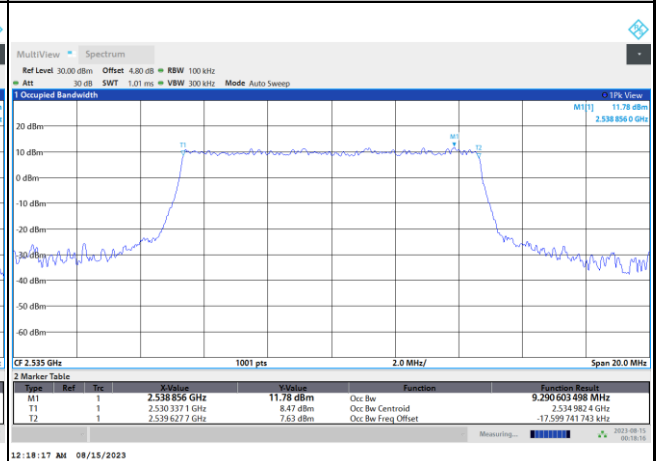
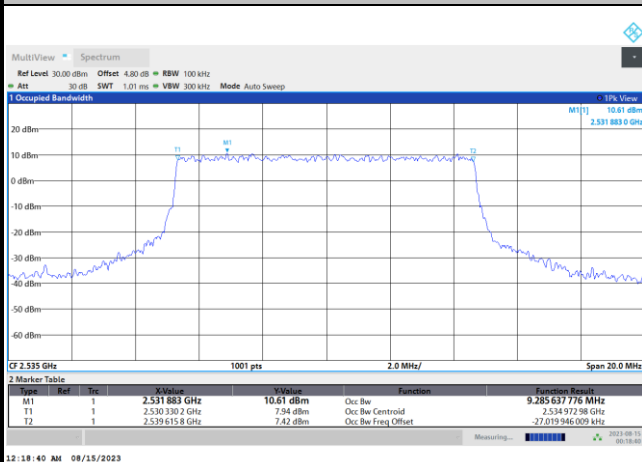
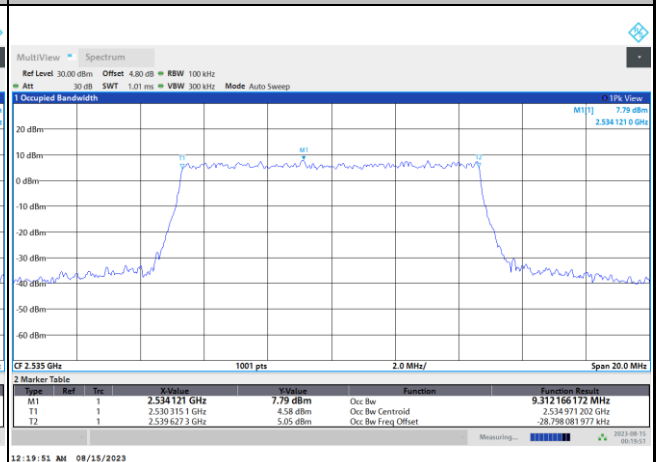


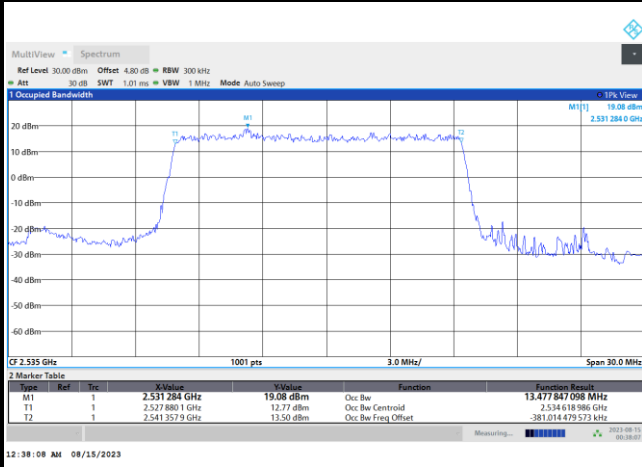
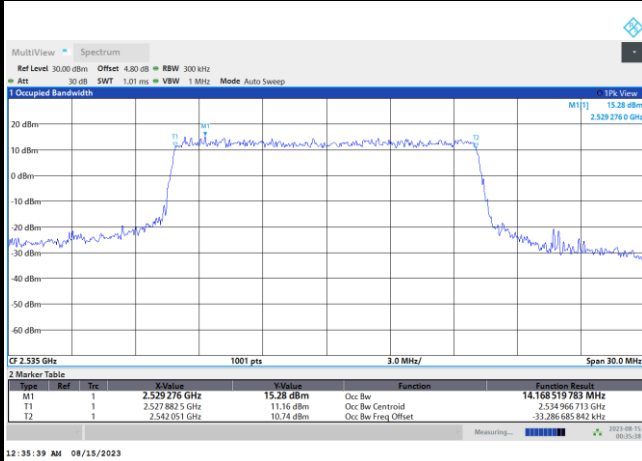
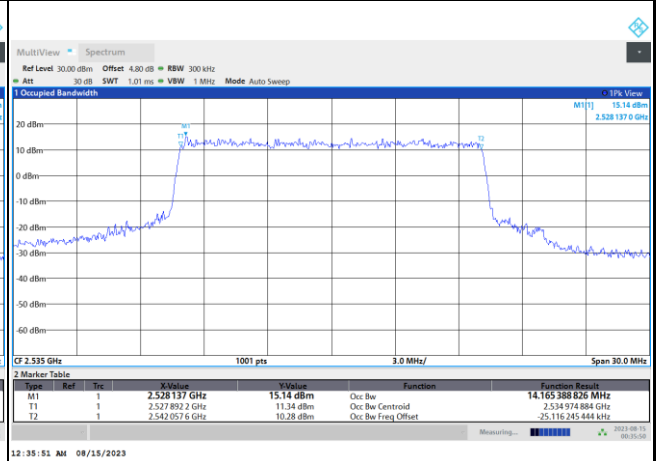
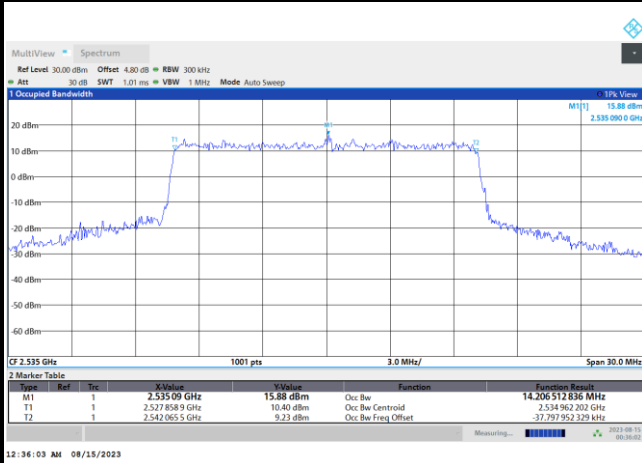
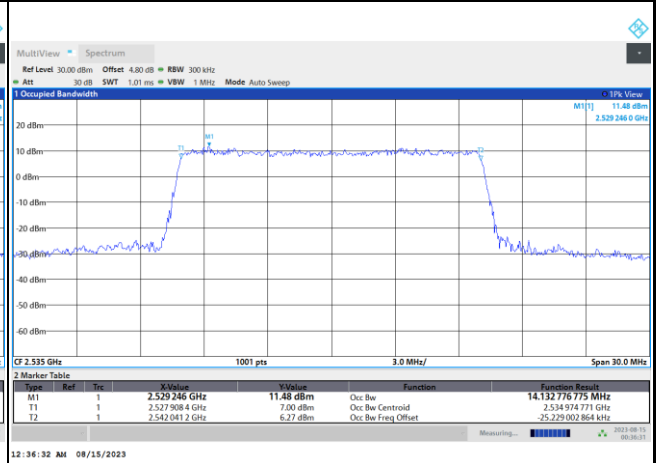
64QAM

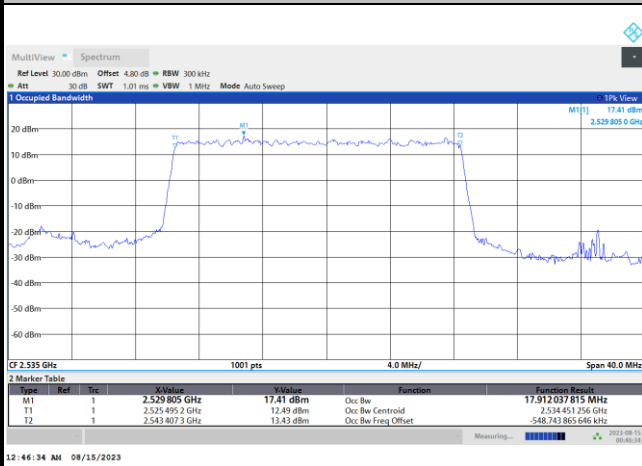
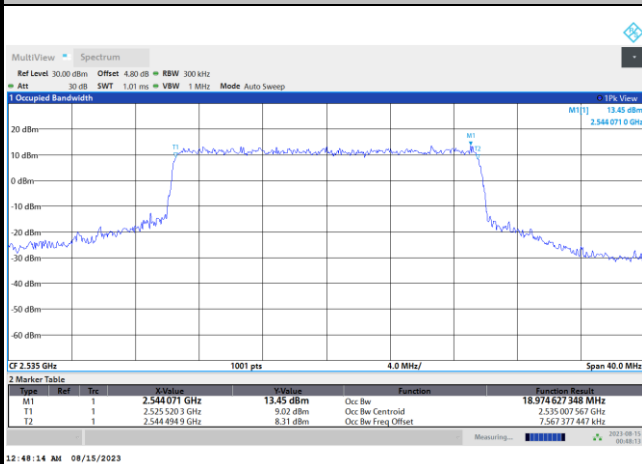
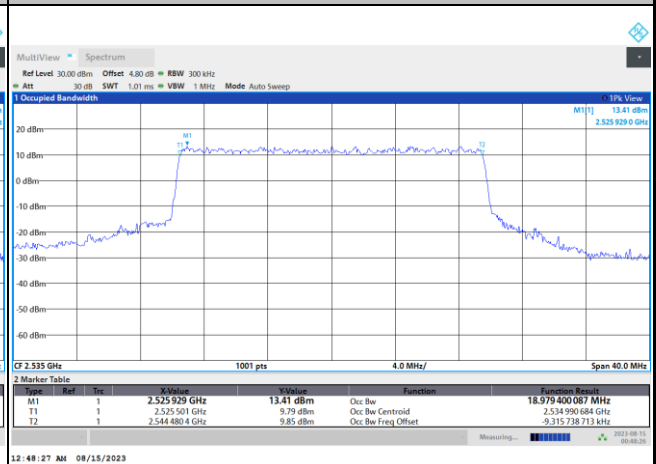
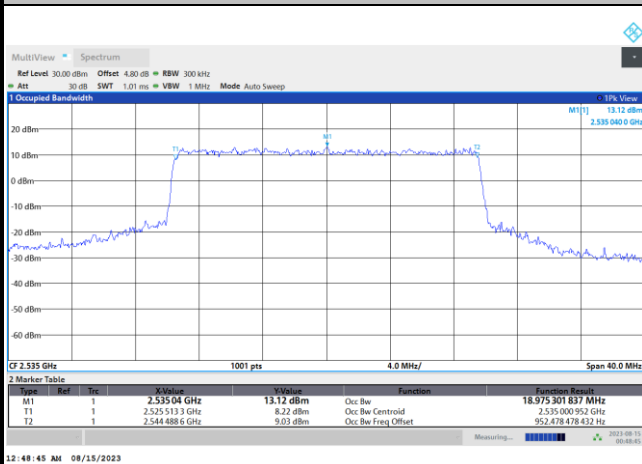
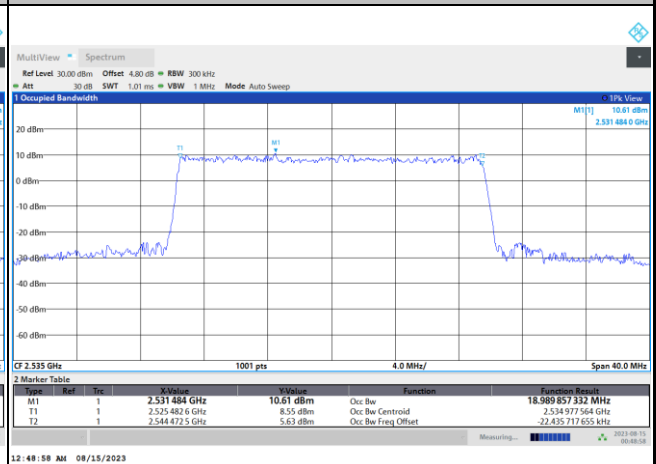


256QAM



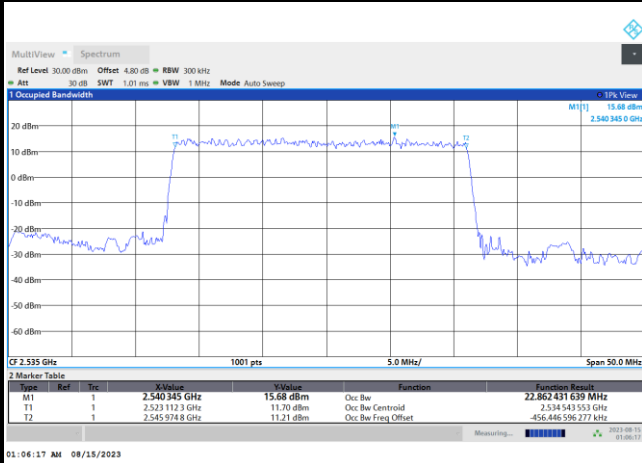
FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


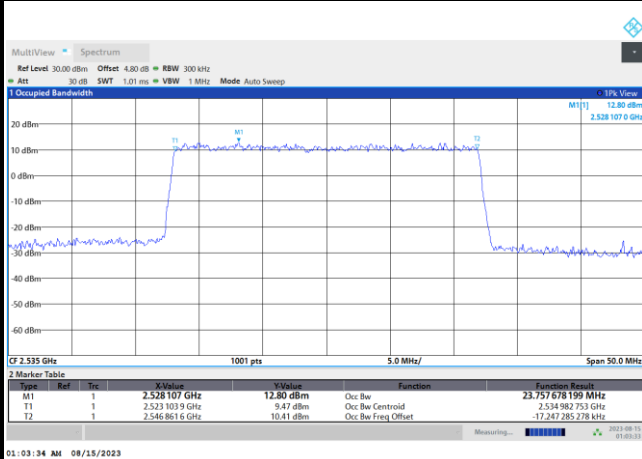
FR1 n7 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

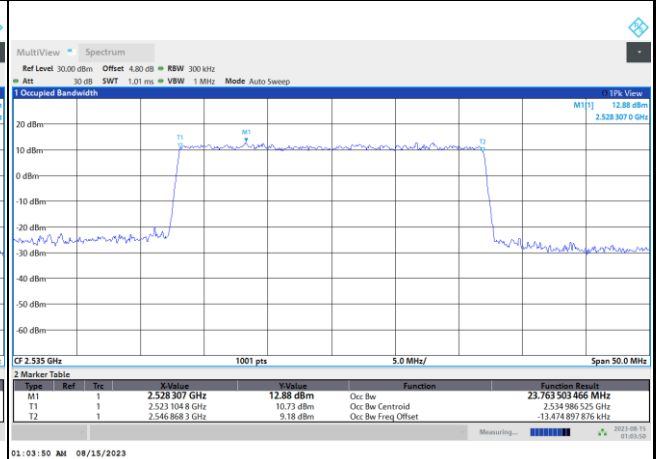


FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

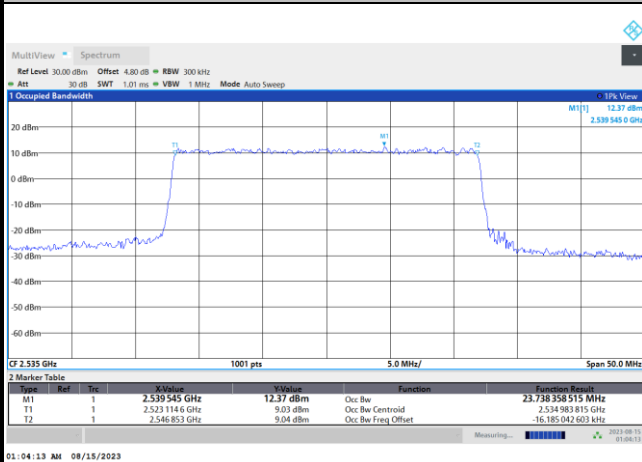
QPSK



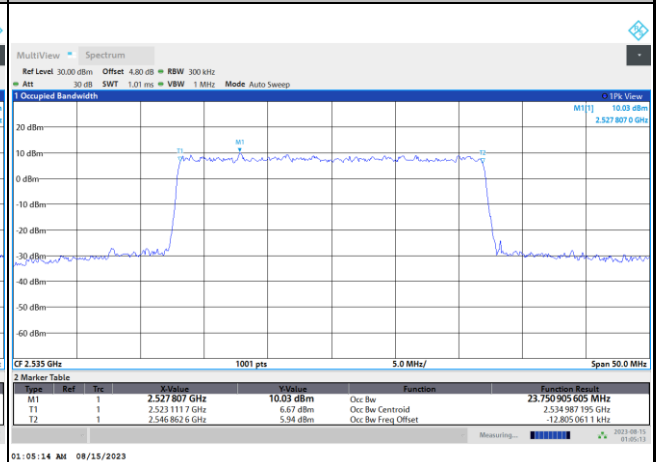
16QAM



64QAM

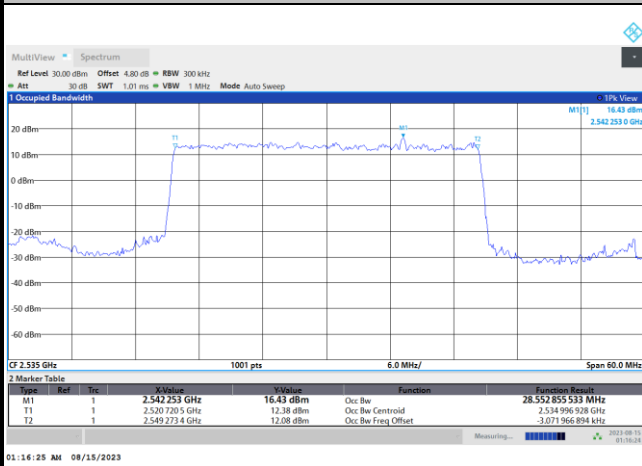


256QAM



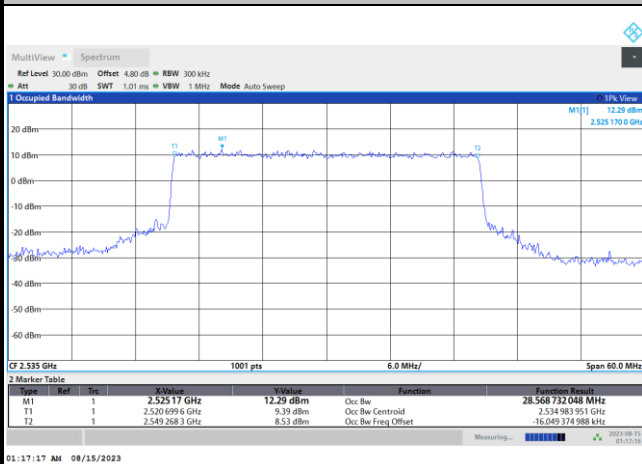
FR1 n7 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

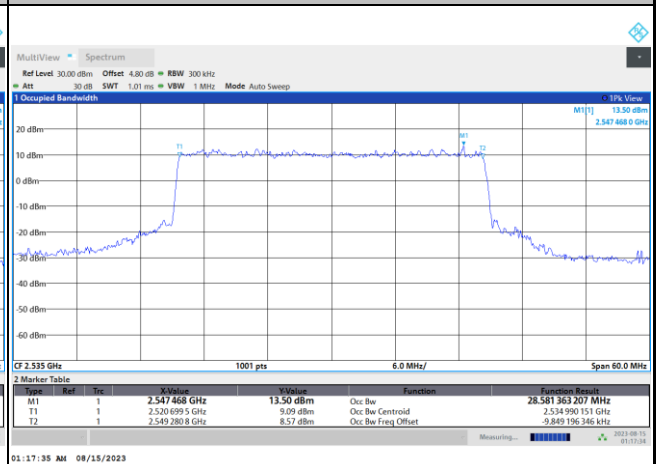


FR1 n7 / 30MHz / CP OFDM / Middle Channel / Full RB

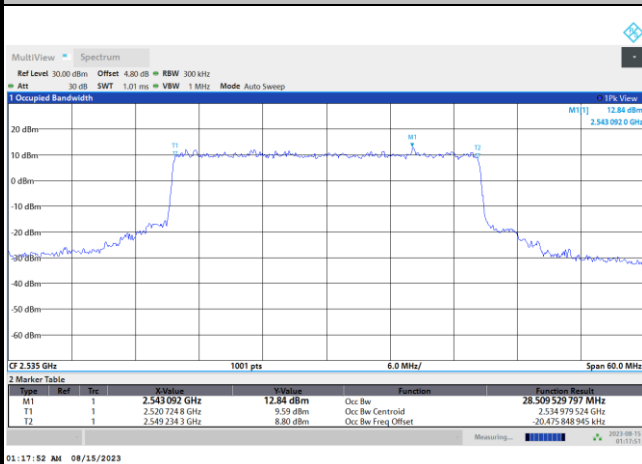
QPSK



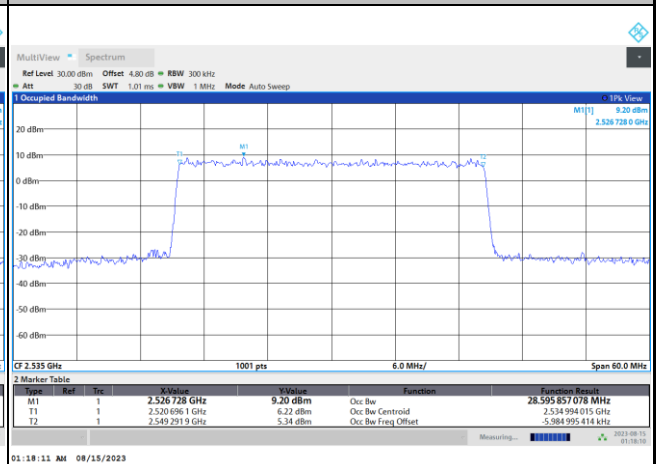
16QAM



64QAM

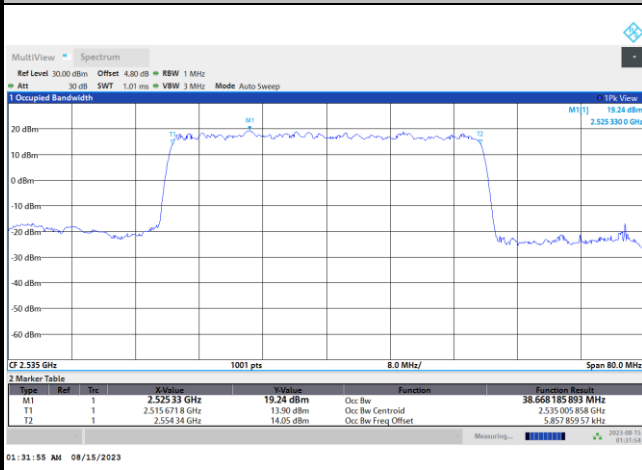


256QAM



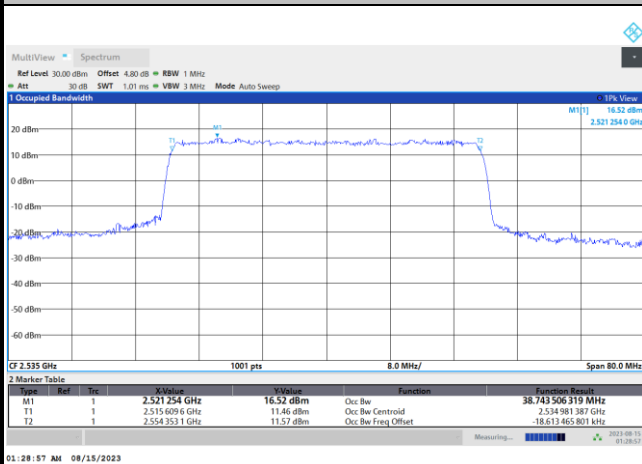
FR1 n7 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

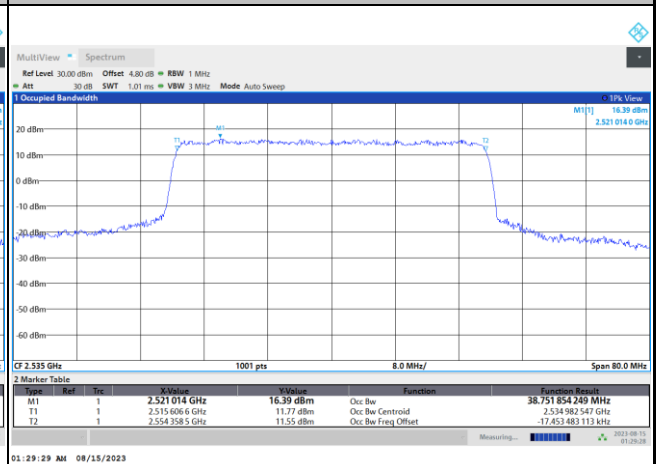


FR1 n7 / 40MHz / CP OFDM / Middle Channel / Full RB

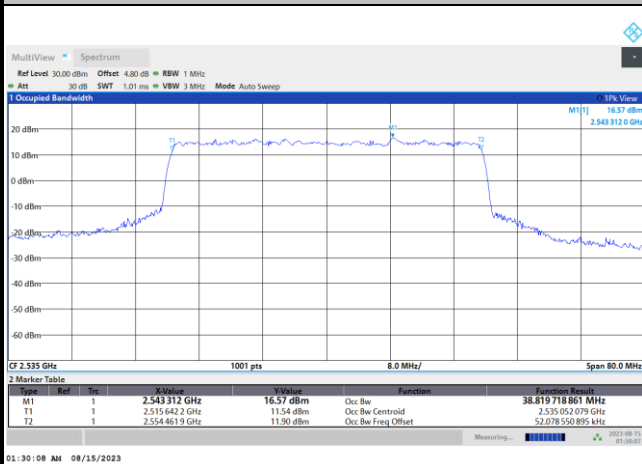
QPSK



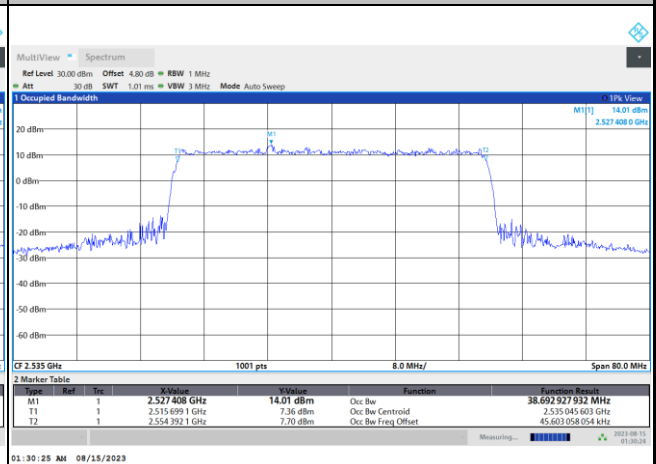
16QAM



64QAM



256QAM



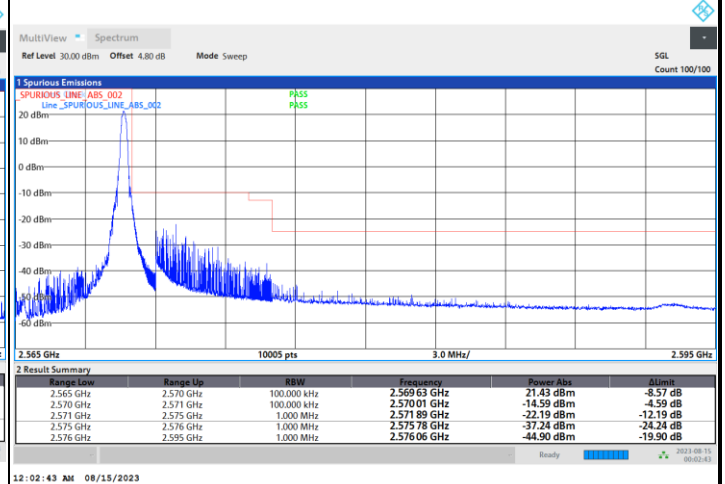
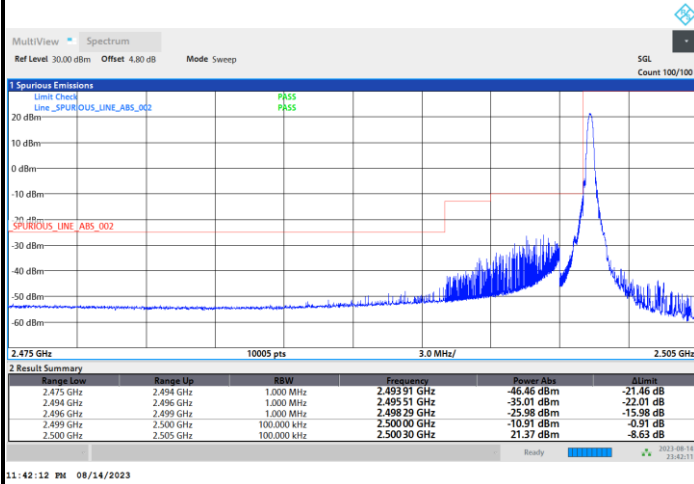


Conducted Band Edge

FR1 n7 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

