TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: **47 CFR FCC Part 27**
47 CFR FCC Part 2

Report No.: RFBBQZ-WTW-P24030292A-2

FCC ID: PY324100618

Product: Nighthawk 5G Mobile Router

Brand: NETGEAR

Model No.: MR7400

Received Date: 2024/11/8

Test Date: 2024/12/2 ~ 2025/2/14

Issued Date: 2025/5/15

Applicant and Manufacturer: NETGEAR, INC.

Address: 350 East Plumeria Drive San Jose CA 95134

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location(1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

Test Location(2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / Designation Number: 788550 / TW0003 for Test Location(1)
281270 / TW0032 for Test Location(2)

Approved by: Jeremy Lin , **Date:** **2025/5/15**

Jeremy Lin / Project Engineer

This test report consists of 207 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.

Prepared by : Pettie Chen / Senior Specialist

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Table of Contents

Release Control Record **4**

1 Certificate **5**

2 Summary of Test Results **6**

2.1 Measurement Uncertainty 6
2.2 Supplementary Information 6

3 General Information **7**

3.1 General Description of EUT 7
3.2 Antenna Description of EUT 11
3.3 Test Mode Applicability and Tested Channel Detail 12
3.3.1 NR n7 SCS 15 kHz 12
3.3.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz) 15
3.3.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz) 16
3.3.4 NR n41 SCS 30 kHz 17
3.4 Test Program Used and Operation Descriptions 21
3.5 Connection Diagram of EUT and Peripheral Devices 21
3.6 Configuration of Peripheral Devices and Cable Connections 21

4 Test Instruments **22**

4.1 Effective Radiated Power and Equivalent Isotropically Radiated Power 22
4.2 Modulation Characteristics 22
4.3 Peak to Average Ratio 22
4.4 Bandwidth 22
4.5 Conducted Spurious Emissions 22
4.6 Radiated Spurious Emissions below 1GHz 23
4.7 Radiated Spurious Emissions above 1GHz 24
4.8 Frequency Stability 25

5 Limits of Test Items **26**

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power 26
5.2 Modulation Characteristics 26
5.3 Peak to Average Ratio 26
5.4 Bandwidth 26
5.5 Conducted Spurious Emissions 26
5.6 Radiated Spurious Emissions below 1GHz 27
5.7 Radiated Spurious Emissions above 1GHz 27
5.8 Frequency Stability 27

6 Test Arrangements **28**

6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power 28
6.1.1 Test Setup 28
6.1.2 Test Procedure 28
6.2 Modulation Characteristics 29
6.2.1 Test Setup 29
6.2.2 Test Procedure 29
6.3 Peak to Average Ratio 29
6.3.1 Test Setup 29
6.3.2 Test Procedure 29
6.4 Bandwidth 30
6.4.1 Test Setup 30
6.4.2 Test Procedure 30
6.5 Conducted Spurious Emissions 32
6.5.1 Test Setup 32
6.5.2 Test Procedure 32
6.6 Radiated Spurious Emissions below 1GHz 33
6.6.1 Test Setup 33
6.6.2 Test Procedure 34
6.7 Radiated Spurious Emissions above 1GHz 35

6.7.1 Test Setup 35
6.7.2 Test Procedure 35
6.8 Frequency Stability 36
6.8.1 Test Setup 36
6.8.2 Test Procedure 36

7 Test Results of Test Item 37

7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power 37
7.1.1 NR n7 SCS 15 kHz 37
7.1.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz) 44
7.1.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz) 45
7.1.4 NR n41 SCS 30 kHz 46
7.2 Modulation Characteristics 58
7.2.1 NR n7 SCS 15 kHz 58
7.2.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz) 59
7.2.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz) 60
7.2.4 NR n41 SCS 30 kHz 61
7.3 Peak to Average Ratio 62
7.3.1 NR n7 SCS 15 kHz 62
7.3.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz) 69
7.3.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz) 70
7.3.4 NR n41 SCS 30 kHz 71
7.4 Bandwidth 83
7.4.1 NR n7 SCS 15 kHz 83
7.4.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz) 90
7.4.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz) 91
7.4.4 NR n41 SCS 30 kHz 92
7.5 Conducted Spurious Emissions 104
7.5.1 NR n7 SCS 15 kHz 104
7.5.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz) 125
7.5.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz) 127
7.5.4 NR n41 SCS 30 kHz 129
7.6 Radiated Spurious Emissions below 1GHz 157
7.6.1 NR n7 SCS 15 kHz 157
7.6.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz) 159
7.6.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz) 161
7.6.4 NR n41 SCS 30kHz 163
7.7 Radiated Spurious Emissions above 1GHz 165
7.7.1 NR n7 SCS 15 kHz 165
7.7.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz) 174
7.7.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz) 175
7.7.4 NR n41 SCS 30 kHz 176
7.8 Frequency Stability 185
7.8.1 NR n7 SCS 15 kHz 185
7.8.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz) 192
7.8.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz) 193
7.8.4 NR n41 SCS 30 kHz 194

8 Pictures of Test Arrangements 206

9 Information of the Testing Laboratories 207

Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P24030292A-2	Original release.	2025/5/15

1 Certificate

Product:	Nighthawk 5G Mobile Router
Brand:	NETGEAR
Test Model:	MR7400
Sample Status:	Engineering sample
Applicant and Manufacturer:	NETGEAR, INC.
Test Date:	2024/12/2 ~ 2025/2/14
Standard:	47 CFR FCC Part 27 47 CFR FCC Part 2
Measurement Procedure:	ANSI/TIA/EIA-603-E 2016 ANSI C63.26-2015 KDB 971168 D01 Power Meas License Digital Systems v03r01 KDB 971168 D02 Misc Rev Approv License Devices v02r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
Part 2.1046 Part 27.50(h) Part 27.50(a)	Effective Radiated Power and Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
-	Peak to Average Ratio	-	Reference only.
Part 2.1049	Bandwidth	Pass	Meet the requirement of limit.
Part 2.1051 Part 27.53(m) Part 27.53(a)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
Part 2.1053 Part 27.53(m) Part 27.53(a)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -3.82 dB at 53.28 MHz
Part 2.1053 Part 27.53(m) Part 27.53(a)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -5.96 dB at 4620.00 MHz
Part 2.1055 Part 27.54	Frequency Stability	Pass	Meet the requirement of limit.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Specification	Uncertainty (±)
Effective Radiated Power and Equivalent Isotropically Radiated Power	-	1.371 dB
Peak to Average Ratio	-	0.920 dB
Bandwidth	-	960 Hz
Conducted Spurious Emissions	-	2.12 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB
Frequency Stability	-	0.176 ppm

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Nighthawk 5G Mobile Router
Brand	NETGEAR
Test Model	MR7400
Status of EUT	Engineering sample
Power Supply Rating	3.85Vdc from battery 5Vdc or 9Vdc or 12Vdc from adapter
EUT Category	Portable station

Note:

1. This report is a supplementary report to BV CPS report no.: RFBBQZ-WTW-P24030292-6. The differences compared with the original report are to enable LTE B8, B38, B41, B42 and NR n7, n40, n41 by software. Therefore, all tests for the added band had been an addendum test to this report. Refer to original report for the other test data.
2. EUT Overview

NR n7 SCS 15 kHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2502.5 ~ 2567.5	DFT-S BPSK	0.344	25.36	4M47G7D
		DFT-S QPSK	0.348	25.41	4M47G7D
		DFT-S 16QAM	0.213	23.29	4M47D7W
		DFT-S 64QAM	0.187	22.73	4M47D7W
		DFT-S 256QAM	0.124	20.93	4M47D7W
10 MHz	2505 ~ 2565	DFT-S BPSK	0.34	25.31	9M21G7D
		DFT-S QPSK	0.356	25.52	9M29G7D
		DFT-S 16QAM	0.213	23.28	9M29D7W
		DFT-S 64QAM	0.198	22.96	9M29D7W
		DFT-S 256QAM	0.129	21.09	9M29D7W
15 MHz	2507.5 ~ 2562.5	DFT-S BPSK	0.336	25.26	14M0G7D
		DFT-S QPSK	0.368	25.66	14M1G7D
		DFT-S 16QAM	0.222	23.46	14M1D7W
		DFT-S 64QAM	0.207	23.16	14M1D7W
		DFT-S 256QAM	0.135	21.29	14M1D7W
20 MHz	2510 ~ 2560	DFT-S BPSK	0.344	25.36	18M8G7D
		DFT-S QPSK	0.38	25.80	18M9G7D
		DFT-S 16QAM	0.228	23.57	18M9D7W
		DFT-S 64QAM	0.212	23.27	18M9D7W
		DFT-S 256QAM	0.138	21.39	18M9D7W
25 MHz	2512.5 ~ 2557.5	DFT-S BPSK	0.333	25.23	23M5G7D
		DFT-S QPSK	0.394	25.95	23M7G7D
		DFT-S 16QAM	0.241	23.82	23M7D7W
		DFT-S 64QAM	0.221	23.45	23M7D7W
		DFT-S 256QAM	0.14	21.46	23M7D7W

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
30 MHz	2515 ~ 2555	DFT-S BPSK	0.335	25.25	28M6G7D
		DFT-S QPSK	0.413	26.16	28M6G7D
		DFT-S 16QAM	0.252	24.01	28M6D7W
		DFT-S 64QAM	0.234	23.70	28M6D7W
		DFT-S 256QAM	0.145	21.60	28M6D7W
40 MHz	2520 ~ 2550	DFT-S BPSK	0.35	25.44	38M6G7D
		DFT-S QPSK	0.447	26.50	38M6G7D
		DFT-S 16QAM	0.272	24.35	38M6D7W
		DFT-S 64QAM	0.249	23.96	38M6D7W
		DFT-S 256QAM	0.159	22.01	38M6D7W

NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
10 MHz	2310	DFT-S BPSK	0.237	23.74	8M60G7D
		DFT-S QPSK	0.238	23.76	8M57G7D
		DFT-S 16QAM	0.19	22.79	8M58D7W
		DFT-S 64QAM	0.14	21.47	8M57D7W
		DFT-S 256QAM	0.079	18.95	8M58D7W
		CP QPSK	0.168	22.25	8M57G7D

NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
10 MHz	2355	DFT-S BPSK	0.23	23.62	8M58G7D
		DFT-S QPSK	0.236	23.72	8M57G7D
		DFT-S 16QAM	0.187	22.71	8M57D7W
		DFT-S 64QAM	0.136	21.35	8M60D7W
		DFT-S 256QAM	0.076	18.81	8M57D7W
		CP QPSK	0.173	22.39	8M57G7D

NR n41 SCS 30 kHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
10 MHz	2501.01 ~ 2685	DFT-S BPSK	0.528	27.23	8M57G7D
		DFT-S QPSK	0.542	27.34	8M58G7D
		DFT-S 16QAM	0.364	25.61	8M57D7W
		DFT-S 64QAM	0.368	25.66	8M58D7W
		DFT-S 256QAM	0.29	24.62	8M57D7W
15 MHz	2503.5 ~ 2682.48	DFT-S BPSK	0.532	27.26	13M5G7D
		DFT-S QPSK	0.543	27.35	13M6G7D
		DFT-S 16QAM	0.362	25.59	13M6D7W
		DFT-S 64QAM	0.367	25.65	13M6D7W
		DFT-S 256QAM	0.288	24.60	13M6D7W
20 MHz	2506.02 ~ 2679.99	DFT-S BPSK	0.531	27.25	18M1G7D
		DFT-S QPSK	0.55	27.40	18M2G7D
		DFT-S 16QAM	0.363	25.60	18M2D7W
		DFT-S 64QAM	0.366	25.64	18M2D7W
		DFT-S 256QAM	0.289	24.61	18M2D7W
25 MHz	2508.51 ~ 2677.5	DFT-S BPSK	0.536	27.29	22M9G7D
		DFT-S QPSK	0.548	27.39	23M2G7D
		DFT-S 16QAM	0.365	25.62	23M2D7W
		DFT-S 64QAM	0.361	25.58	23M2D7W
		DFT-S 256QAM	0.290	24.62	23M2D7W
30 MHz	2511 ~ 2674.98	DFT-S BPSK	0.526	27.21	27M6G7D
		DFT-S QPSK	0.547	27.38	27M9G7D
		DFT-S 16QAM	0.361	25.58	27M9D7W
		DFT-S 64QAM	0.366	25.64	27M9D7W
		DFT-S 256QAM	0.288	24.60	27M9D7W
40 MHz	2516.01 ~ 2670	DFT-S BPSK	0.53	27.24	37M6G7D
		DFT-S QPSK	0.55	27.40	37M8G7D
		DFT-S 16QAM	0.364	25.61	37M8D7W
		DFT-S 64QAM	0.367	25.65	37M9D7W
		DFT-S 256QAM	0.286	24.56	37M8D7W
50 MHz	2521.02 ~ 2664.99	DFT-S BPSK	0.532	27.26	47M2G7D
		DFT-S QPSK	0.546	27.37	47M5G7D
		DFT-S 16QAM	0.359	25.55	47M5D7W
		DFT-S 64QAM	0.361	25.57	47M5D7W
		DFT-S 256QAM	0.289	24.61	47M5D7W
60 MHz	2526 ~ 2659.98	DFT-S BPSK	0.531	27.25	57M9G7D
		DFT-S QPSK	0.548	27.39	57M9G7D
		DFT-S 16QAM	0.362	25.59	57M9D7W
		DFT-S 64QAM	0.362	25.59	57M9D7W
		DFT-S 256QAM	0.29	24.62	57M9D7W
70 MHz	2531.01 ~ 2655	DFT-S BPSK	0.532	27.26	67M0G7D
		DFT-S QPSK	0.548	27.39	67M5G7D
		DFT-S 16QAM	0.363	25.60	67M6D7W
		DFT-S 64QAM	0.365	25.62	67M6D7W
		DFT-S 256QAM	0.286	24.57	67M5D7W

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
80 MHz	2536.02 ~ 2649.99	DFT-S BPSK	0.528	27.23	77M2G7D
		DFT-S QPSK	0.548	27.39	77M5G7D
		DFT-S 16QAM	0.361	25.58	77M5D7W
		DFT-S 64QAM	0.368	25.66	77M5D7W
		DFT-S 256QAM	0.29	24.62	77M5D7W
90 MHz	2541 ~ 2644.98	DFT-S BPSK	0.532	27.26	87M2G7D
		DFT-S QPSK	0.55	27.40	87M6G7D
		DFT-S 16QAM	0.361	25.58	87M6D7W
		DFT-S 64QAM	0.368	25.66	87M5D7W
		DFT-S 256QAM	0.288	24.60	87M6D7W
100 MHz	2546.01 ~ 2640	DFT-S BPSK	0.533	27.27	97M0G7D
		DFT-S QPSK	0.551	27.41	97M7G7D
		DFT-S 16QAM	0.365	25.62	97M7D7W
		DFT-S 64QAM	0.369	25.67	97M6D7W
		DFT-S 256QAM	0.29	24.63	97M6D7W

3. The EUT uses following accessories.

AC Adapter 1			
Brand	Model	Part Number	Specification
NETGEAR	2AFH0183AA	332-11642-01	AC Input : 100-240Vac, 50/60Hz, 0.5A DC Output : 5.0V, 3.0A, 15.0W 9.0V, 2.0A, 18.0W 12.0V, 1.5A, 18.0W DC Output Cable : N/A Plug : US Manufacturer : CWT
AC Adapter 2			
Brand	Model	Part Number	Specification
NETGEAR	AD2122F20	332-11106-03	AC Input : 100-240V, 50/60Hz, 0.5A DC Output : 5V, 2.0A 9V, 1.8A DC Output Cable : N/A Plug : US Manufacturer : PIE
Battery			
Brand	Model	Part Number	Specification
NETGEAR	W-20b	308-10100-01	Power Rating : 3.85Vdc, 19.96Wh
USB Cable 1			
Brand		Model	Specification
HORTON		D0017100R37HR	Signal Line : 1m
USB Cable 2			
Brand		Model	Specification
LUXSHARE PRECISION INDUSTRY		LZZUC052-CS-H	Signal Line : 1m

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Type		Monopole				
5GNR Band						
Band	Freq. Range (MHz)	Gain (dBi)				
		Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 7
5GNR n2	1850 ~ 1910	3.25	2.99	-	-	-
5GNR n5	824 ~ 849	-1.31	-0.58	-	-	-
5GNR n7	2500 ~ 2570	3.8	3.18	-	-	-
5GNR n12	698 ~ 716	0.47	0.38	-	-	-
5GNR n14	788 ~ 798	0.88	0.66	-	-	-
5GNR n30	2305 ~ 2315	3.01	2.67	-	-	-
5GNR n40	2300 ~ 2400	3.01	2.88	-	-	-
5GNR n41	2496 ~ 2690	-	3.18	2.81	2.97	0.01
5GNR n66	1710 ~ 1780	2.19	3.09	-	-	-
5GNR n77	3300~4200	3.22	2.85	-	-	-
5GNR n78	3300~3800	3.22	2.85	-	-	-

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

Antenna Type		External		
External Connector		TS9		
5GNR Band				
Band	Freq. Range (MHz)	Gain (dBi)		
		Ant. 1	Ant. 2	Ant. 3
5GNR n2	1850 ~ 1910	0.67	0.45	-
5GNR n5	824 ~ 849	-1.32	-1.6	-
5GNR n7	2500 ~ 2570	0.67	0.45	-
5GNR n12	698 ~ 716	-0.83	-1.6	-
5GNR n14	788 ~ 798	-0.83	-1.6	-
5GNR n30	2305 ~ 2315	1.03	1.05	-
5GNR n40	2300 ~ 2400	1.03	1.05	-
5GNR n41	2496 ~ 2690	-	3.17	3.17
5GNR n66	1710 ~ 1780	0.67	0.54	-
5GNR n77	3300~4200	0.17	1.66	-
5GNR n78	3300~3800	0.17	1.66	-

Note:

1. TS9 connector is for the external antennas, while the external antennas are connected, RF outputs are switch from internal 1/2 to the external one.
2. The maximum antenna gain allowed for the external antenna is limited by the internal antenna gain, also illustrated in the user manual.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. For Unwanted Emission (below 1GHz) items: Battery/AC Adapter/USB Cable. Pre-scan these modes and find the worst case as a representative test condition. 2. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. AC Adapter 1 + USB Cable 1 2. Z-Axis

Following channel(s) was (were) selected for the final test as listed below:

3.3.1 NR n7 SCS 15 kHz

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	500500(2502.50 MHz) 507000(2535.00 MHz) 513500(2567.50 MHz)	5 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	501000(2505.00 MHz) 507000(2535.00 MHz) 513000(2565.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	501500(2507.50 MHz) 507000(2535.00 MHz) 512500(2562.50 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	502000(2510.00 MHz) 507000(2535.00 MHz) 512000(2560.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	502500(2512.50 MHz) 507000(2535.00 MHz) 511500(2557.50 MHz)	25 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	503000(2515.00 MHz) 507000(2535.00 MHz) 511000(2555.00 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	504000(2520.00 MHz) 507000(2535.00 MHz) 510000(2550.00 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	507000(2535.00 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	500500(2502.50 MHz) 507000(2535.00 MHz) 513500(2567.50 MHz)	5 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	501000(2505.00 MHz) 507000(2535.00 MHz) 513000(2565.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	501500(2507.50 MHz) 507000(2535.00 MHz) 512500(2562.50 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	502000(2510.00 MHz) 507000(2535.00 MHz) 512000(2560.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	502500(2512.50 MHz) 507000(2535.00 MHz) 511500(2557.50 MHz)	25 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	503000(2515.00 MHz) 507000(2535.00 MHz) 511000(2555.00 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	504000(2520.00 MHz) 507000(2535.00 MHz) 510000(2550.00 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	500500(2502.50 MHz) 507000(2535.00 MHz) 513500(2567.50 MHz)	5 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	501000(2505.00 MHz) 507000(2535.00 MHz) 513000(2565.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	501500(2507.50 MHz) 507000(2535.00 MHz) 512500(2562.50 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	502000(2510.00 MHz) 507000(2535.00 MHz) 512000(2560.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	502500(2512.50 MHz) 507000(2535.00 MHz) 511500(2557.50 MHz)	25 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	503000(2515.00 MHz) 507000(2535.00 MHz) 511000(2555.00 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	504000(2520.00 MHz) 507000(2535.00 MHz) 510000(2550.00 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	500500(2502.50 MHz) 507000(2535.00 MHz) 513500(2567.50 MHz)	5 MHz	QPSK	1 RB Full RB
	501000(2505.00 MHz) 507000(2535.00 MHz) 513000(2565.00 MHz)	10 MHz	QPSK	1 RB Full RB
	501500(2507.50 MHz) 507000(2535.00 MHz) 512500(2562.50 MHz)	15 MHz	QPSK	1 RB Full RB
	502000(2510.00 MHz) 507000(2535.00 MHz) 512000(2560.00 MHz)	20 MHz	QPSK	1 RB Full RB
	502500(2512.50 MHz) 507000(2535.00 MHz) 511500(2557.50 MHz)	25 MHz	QPSK	1 RB Full RB
	503000(2515.00 MHz) 507000(2535.00 MHz) 511000(2555.00 MHz)	30 MHz	QPSK	1 RB Full RB
	504000(2520.00 MHz) 507000(2535.00 MHz) 510000(2550.00 MHz)	40 MHz	QPSK	1 RB Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	513500(2567.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	500500(2502.50 MHz) 507000(2535.00 MHz) 513500(2567.50 MHz)	5 MHz	QPSK	1 RB
	502000(2510.00 MHz) 507000(2535.00 MHz) 512000(2560.00 MHz)	20 MHz	QPSK	1 RB
	504000(2520.00 MHz) 507000(2535.00 MHz) 510000(2550.00 MHz)	40 MHz	QPSK	1 RB
Frequency Stability	500500(2502.50 MHz) 513500(2567.50 MHz)	5 MHz	QPSK	Full RB
	501000(2505.00 MHz) 513000(2565.00 MHz)	10 MHz	QPSK	Full RB
	501500(2507.50 MHz) 512500(2562.50 MHz)	15 MHz	QPSK	Full RB
	502000(2510.00 MHz) 512000(2560.00 MHz)	20 MHz	QPSK	Full RB
	502500(2512.50 MHz) 511500(2557.50 MHz)	25 MHz	QPSK	Full RB
	503000(2515.00 MHz) 511000(2555.00 MHz)	30 MHz	QPSK	Full RB
	504000(2520.00 MHz) 510000(2550.00 MHz)	40 MHz	QPSK	Full RB

3.3.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	462000(2310.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	462000(2310.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	462000(2310.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	462000(2310.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	462000(2310.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	462000(2310.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	462000(2310.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	462000(2310.00 MHz)	10 MHz	QPSK	Full RB

3.3.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	471000(2355.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	471000(2355.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	471000(2355.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	471000(2355.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	471000(2355.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	471000(2355.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	471000(2355.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	471000(2355.00 MHz)	10 MHz	QPSK	Full RB

3.3.4 NR n41 SCS 30 kHz

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	500202(2501.01 MHz) 518598(2592.99 MHz) 537000(2685.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	500700(2503.50 MHz) 518598(2592.99 MHz) 536496(2682.48 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	501204(2506.02 MHz) 518598(2592.99 MHz) 535998(2679.99 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	501702(2508.51 MHz) 518598(2592.99 MHz) 535500(2677.50 MHz)	25 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	502200(2511.00 MHz) 518598(2592.99 MHz) 534996(2674.98 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	503202(2516.01 MHz) 518598(2592.99 MHz) 534000(2670.00 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	504204(2521.02 MHz) 518598(2592.99 MHz) 532998(2664.99 MHz)	50 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	505200(2526.00 MHz) 518598(2592.99 MHz) 531996(2659.98 MHz)	60 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	506202(2531.01 MHz) 518598(2592.99 MHz) 531000(2655.00 MHz)	70 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	507204(2536.02 MHz) 518598(2592.99 MHz) 529998(2649.99 MHz)	80 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	508200(2541.00 MHz) 518598(2592.99 MHz) 528996(2644.98 MHz)	90 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	509202(2546.01 MHz) 518598(2592.99 MHz) 528000(2640.00 MHz)	100 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	518598(2592.99 MHz)	100 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	500202(2501.01 MHz) 518598(2592.99 MHz) 537000(2685.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	500700(2503.50 MHz) 518598(2592.99 MHz) 536496(2682.48 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	501204(2506.02 MHz) 518598(2592.99 MHz) 535998(2679.99 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	501702(2508.51 MHz) 518598(2592.99 MHz) 535500(2677.50 MHz)	25 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	502200(2511.00 MHz) 518598(2592.99 MHz) 534996(2674.98 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	503202(2516.01 MHz) 518598(2592.99 MHz) 534000(2670.00 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	504204(2521.02 MHz) 518598(2592.99 MHz) 532998(2664.99 MHz)	50 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	505200(2526.00 MHz) 518598(2592.99 MHz) 531996(2659.98 MHz)	60 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	506202(2531.01 MHz) 518598(2592.99 MHz) 531000(2655.00 MHz)	70 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	507204(2536.02 MHz) 518598(2592.99 MHz) 529998(2649.99 MHz)	80 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	508200(2541.00 MHz) 518598(2592.99 MHz) 528996(2644.98 MHz)	90 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
	509202(2546.01 MHz) 518598(2592.99 MHz) 528000(2640.00 MHz)	100 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	500202(2501.01 MHz) 518598(2592.99 MHz) 537000(2685.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	500700(2503.50 MHz) 518598(2592.99 MHz) 536496(2682.48 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	501204(2506.02 MHz) 518598(2592.99 MHz) 535998(2679.99 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB

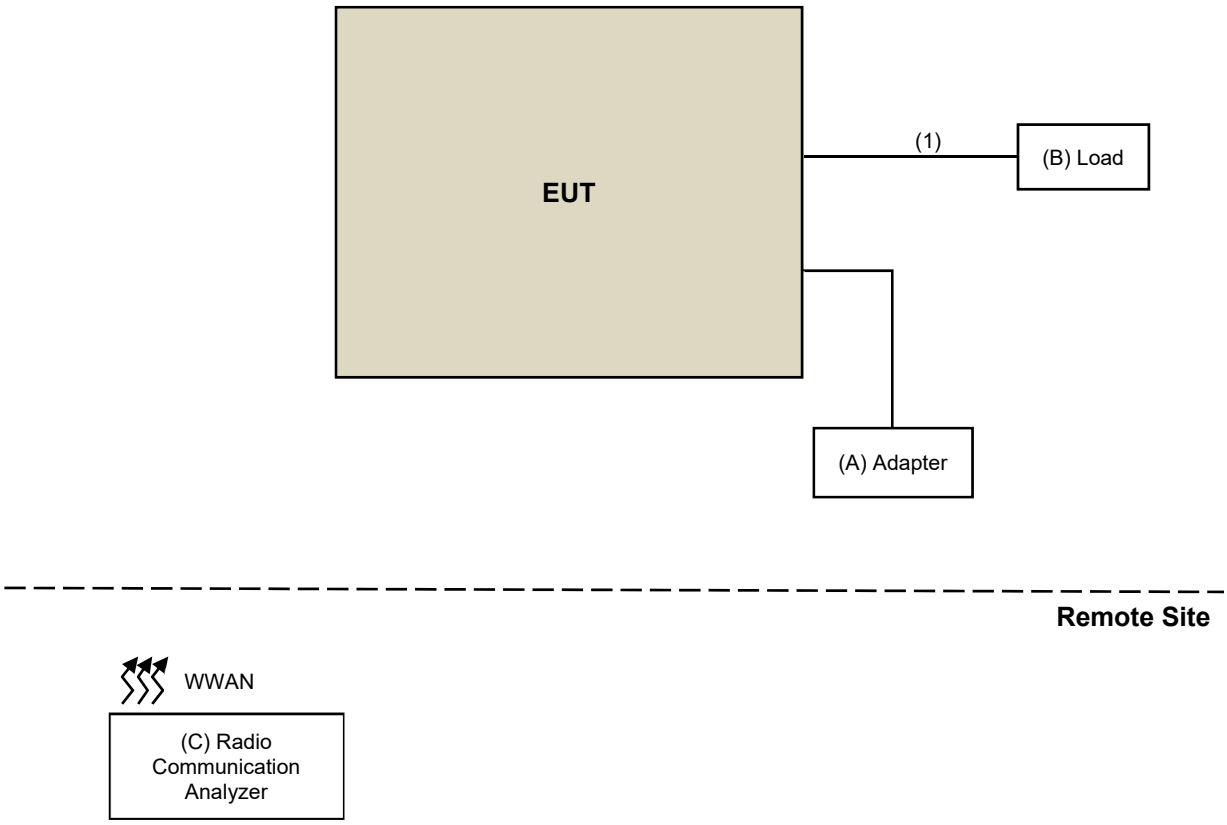
Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	501702(2508.51 MHz) 518598(2592.99 MHz) 535500(2677.50 MHz)	25 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	502200(2511.00 MHz) 518598(2592.99 MHz) 534996(2674.98 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	503202(2516.01 MHz) 518598(2592.99 MHz) 534000(2670.00 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	504204(2521.02 MHz) 518598(2592.99 MHz) 532998(2664.99 MHz)	50 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	505200(2526.00 MHz) 518598(2592.99 MHz) 531996(2659.98 MHz)	60 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	506202(2531.01 MHz) 518598(2592.99 MHz) 531000(2655.00 MHz)	70 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	507204(2536.02 MHz) 518598(2592.99 MHz) 529998(2649.99 MHz)	80 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	508200(2541.00 MHz) 518598(2592.99 MHz) 528996(2644.98 MHz)	90 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
	509202(2546.01 MHz) 518598(2592.99 MHz) 528000(2640.00 MHz)	100 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	500202(2501.01 MHz) 518598(2592.99 MHz) 537000(2685.00 MHz)	10 MHz	QPSK	1 RB Full RB
	500700(2503.50 MHz) 518598(2592.99 MHz) 536496(2682.48 MHz)	15 MHz	QPSK	1 RB Full RB
	501204(2506.02 MHz) 518598(2592.99 MHz) 535998(2679.99 MHz)	20 MHz	QPSK	1 RB Full RB
	501702(2508.51 MHz) 518598(2592.99 MHz) 535500(2677.50 MHz)	25 MHz	QPSK	1 RB Full RB
	502200(2511.00 MHz) 518598(2592.99 MHz) 534996(2674.98 MHz)	30 MHz	QPSK	1 RB Full RB
	503202(2516.01 MHz) 518598(2592.99 MHz) 534000(2670.00 MHz)	40 MHz	QPSK	1 RB Full RB
	504204(2521.02 MHz) 518598(2592.99 MHz) 532998(2664.99 MHz)	50 MHz	QPSK	1 RB Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	505200(2526.00 MHz) 518598(2592.99 MHz) 531996(2659.98 MHz)	60 MHz	QPSK	1 RB Full RB
	506202(2531.01 MHz) 518598(2592.99 MHz) 531000(2655.00 MHz)	70 MHz	QPSK	1 RB Full RB
	507204(2536.02 MHz) 518598(2592.99 MHz) 529998(2649.99 MHz)	80 MHz	QPSK	1 RB Full RB
	508200(2541.00 MHz) 518598(2592.99 MHz) 528996(2644.98 MHz)	90 MHz	QPSK	1 RB Full RB
	509202(2546.01 MHz) 518598(2592.99 MHz) 528000(2640.00 MHz)	100 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	518598(2592.99 MHz)	100 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	500202(2501.01 MHz) 518598(2592.99 MHz) 537000(2685.00 MHz)	10 MHz	QPSK	1 RB
	504204(2521.02 MHz) 518598(2592.99 MHz) 532998(2664.99 MHz)	50 MHz	QPSK	1 RB
	509202(2546.01 MHz) 518598(2592.99 MHz) 528000(2640.00 MHz)	100 MHz	QPSK	1 RB
Frequency Stability	500202(2501.01 MHz) 537000(2685.00 MHz)	10 MHz	QPSK	Full RB
	500700(2503.50 MHz) 536496(2682.48 MHz)	15 MHz	QPSK	Full RB
	501204(2506.02 MHz) 535998(2679.99 MHz)	20 MHz	QPSK	Full RB
	501702(2508.51 MHz) 535500(2677.50 MHz)	25 MHz	QPSK	Full RB
	502200(2511.00 MHz) 534996(2674.98 MHz)	30 MHz	QPSK	Full RB
	503202(2516.01 MHz) 534000(2670.00 MHz)	40 MHz	QPSK	Full RB
	504204(2521.02 MHz) 532998(2664.99 MHz)	50 MHz	QPSK	Full RB
	505200(2526.00 MHz) 531996(2659.98 MHz)	60 MHz	QPSK	Full RB
	506202(2531.01 MHz) 531000(2655.00 MHz)	70 MHz	QPSK	Full RB
	507204(2536.02 MHz) 529998(2649.99 MHz)	80 MHz	QPSK	Full RB
	508200(2541.00 MHz) 528996(2644.98 MHz)	90 MHz	QPSK	Full RB
	509202(2546.01 MHz) 528000(2640.00 MHz)	100 MHz	QPSK	Full RB

3.4 Test Program Used and Operation Descriptions

There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	NETGEAR	2AFH0183AA	N/A	N/A	Supplied by applicant
B	Load	N/A	N/A	N/A	N/A	Provided by Lab
C	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	N/A	Provided by Lab (for RF Setup)

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ45 Cable	1	1.5	No	0	Provided by Lab
2	USB Cable	1	1	Yes	0	Accessory of EUT

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030B	MY57140938	2024/3/20	2025/3/19
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2024/5/26	2025/5/25

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/12/3 ~ 2025/2/12

4.2 Modulation Characteristics

Refer to section 4.1 to get the tested date and information of the instruments.

4.3 Peak to Average Ratio

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Conducted Spurious Emissions

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1214	2024/10/15	2025/10/14
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier EMCI	EMC330N	980798	2024/1/15	2025/1/14
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201248	2024/1/15	2025/1/14
	EMCCFD400-NM-NM-3000	201249	2024/1/15	2025/1/14
	EMCCFD400-NM-NM-9000	201251(with PAD)	2024/1/15	2025/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2024/12/2 ~ 2024/12/12

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
Horn Antenna RFSPIN	DRH18-E	210104A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier Agilent	83017A	MY39501357	2024/6/12	2025/6/11
Preamplifier EMCI	EMC184045SE	980788	2024/1/15	2025/1/14
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2024/1/15	2025/1/14
	EMC101G-KM-KM-3000	201258	2024/1/15	2025/1/14
	EMC101G-KM-KM-5000	201261	2024/1/15	2025/1/14
	EMC104-SM-SM-1000	210103	2024/1/15	2025/1/14
	EMC104-SM-SM-3000	201241	2024/1/15	2025/1/14
	EMC104-SM-SM-9000	201244	2024/1/15	2025/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2024/12/12 ~ 2024/12/13

4.8 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply OWON	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	8050A	4660081	2024/6/14	2025/6/13
PXA Signal Analyzer Keysight	N9030B	MY57140938	2024/3/20	2025/3/19
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920842	2024/6/21	2025/6/20
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2024/5/26	2025/5/25

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/2/14

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz), NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz):

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

For NR n7 SCS 15 kHz, NR n41 SCS 30 kHz:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

5.2 Modulation Characteristics

A curve or equivalent data which shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.

5.3 Peak to Average Ratio

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.

5.4 Bandwidth

According to FCC 47 CFR part 2.1049, the occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission.

5.5 Conducted Spurious Emissions

For NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz), NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz):

According to FCC 47 CFR part 27.53(a)(4), for mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 MHz and 2320 MHz and on all frequencies between 2345 MHz and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 MHz and 2324 MHz and on all frequencies between 2341 MHz and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 MHz and 2328 MHz and on all frequencies between 2337 MHz and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 MHz and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 MHz and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 MHz and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 MHz and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 MHz and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 MHz and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

(iv) Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305 MHz, 2310 MHz, 2315 MHz, 2320 MHz, 2345 MHz, 2350 MHz, 2355 MHz, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

For NR n7 SCS 15 kHz, NR n41 SCS 30 kHz:

According to FCC 47 CFR part 27.53(m)(4) regulations, any transmit power outside of the channel edge must be attenuated below the transmitting power (P) by a 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. 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

5.6 Radiated Spurious Emissions below 1GHz

For NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz), NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz):

According to FCC 47 CFR part 27.53(a)(4)(ii)(iii), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 70 +10 log (P) dB. The limit of emission is equal to -40 dBm.

For NR n7 SCS 15 kHz, NR n41 SCS 30 kHz:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee’s frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least 55 + 10 log (P) dB. The emission limit equal to –25 dBm.

5.7 Radiated Spurious Emissions above 1GHz

For NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz), NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz):

According to FCC 47 CFR part 27.53(a)(4)(ii)(iii), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 70 +10 log (P) dB. The limit of emission is equal to -40 dBm.

For NR n7 SCS 15 kHz, NR n41 SCS 30 kHz:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee’s frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least 55 + 10 log (P) dB. The emission limit equal to –25 dBm.

5.8 Frequency Stability

For NR n7 SCS 15 kHz, NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz), NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz), NR n41 SCS 30 kHz:

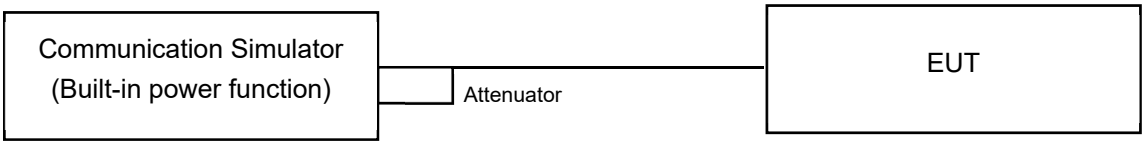
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation (authorized frequency block).

6 Test Arrangements

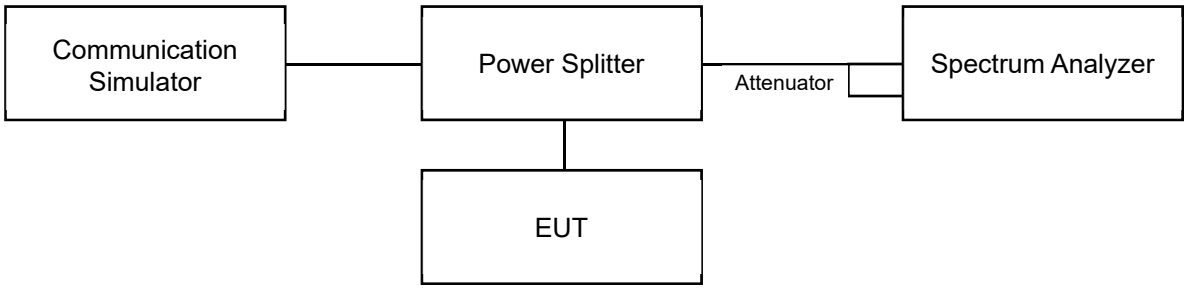
6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

6.1.1 Test Setup

Conducted Power Measurement:



Only available for 5G NR n40:



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology. The average (rms) power measurement was performed on emulator and power value was measured from power function on emulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.
The EUT is configured by emulator to set data modulation and maximum power using WWAN technology and link to spectrum analyzer measurements. Set the EUT to transmit under low, middle and high channel and record the power level shown on spectrum analyzer. Power measurements use detector average (rms).

Only available for 5G NR n40:

Measurement method refers to ANSI C63.26 section 5.2.4.4.

a. Set span to 2 × to 3 × the OBW.
b. Set RBW = 1% to 5% of the OBW.
c. Set VBW ≥ 3 × RBW.
d. Set number of measurement points in sweep ≥ 2 × span / RBW.
e. Set Sweep time = auto-couple.
f. Detector = power averaging (rms).
g. Set sweep trigger to “free run.”
h. Trace average at least 100 traces in power averaging (rms) mode.
i. Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band or channel power measurement function with band/channel limits set equal to the OBW band edges.
j. If Duty cycle < 98%, Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$EIRP = P_{Meas} + G_T$

$ERP = P_{Meas} + G_T - 2.15$

where

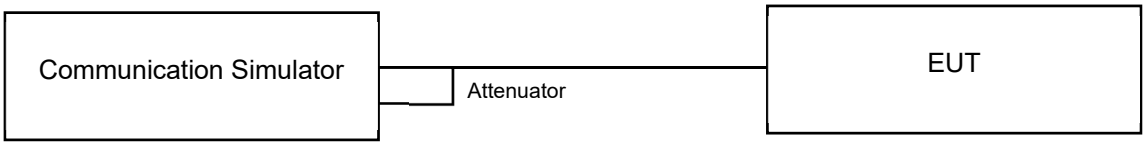
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

6.2 Modulation Characteristics

6.2.1 Test Setup

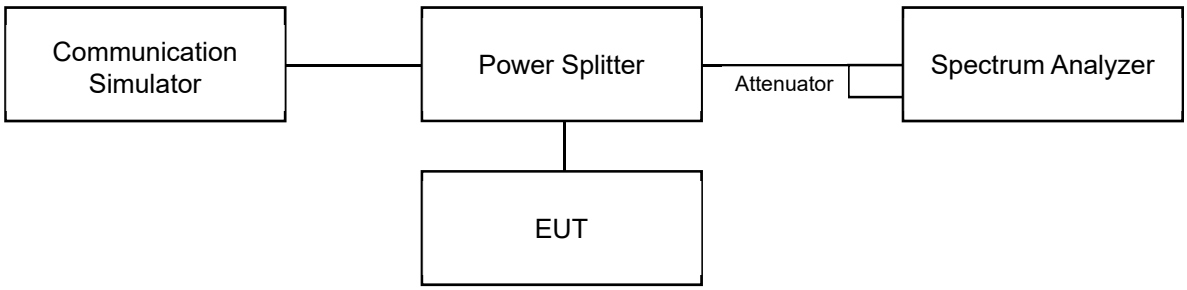


6.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, the frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

6.3 Peak to Average Ratio

6.3.1 Test Setup

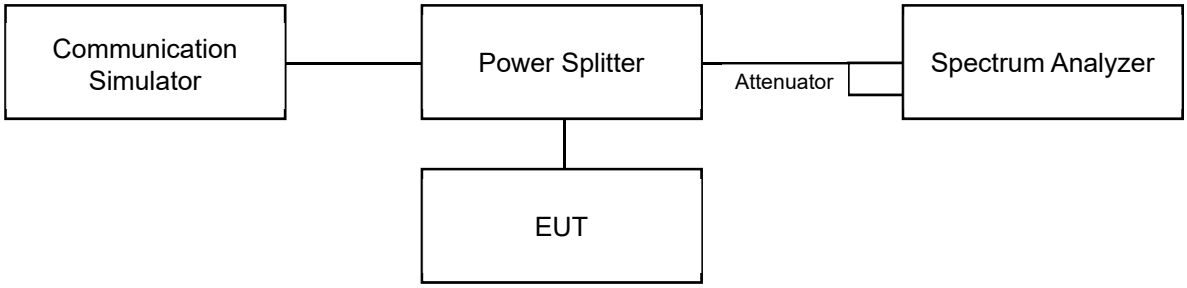


6.3.2 Test Procedure

a. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
b. Set the number of counts to a value that stabilizes the measured CCDF curve;
c. Record the maximum PAPR level associated with a probability of 0.1%.

6.4 Bandwidth

6.4.1 Test Setup



6.4.2 Test Procedure

For the 26 dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

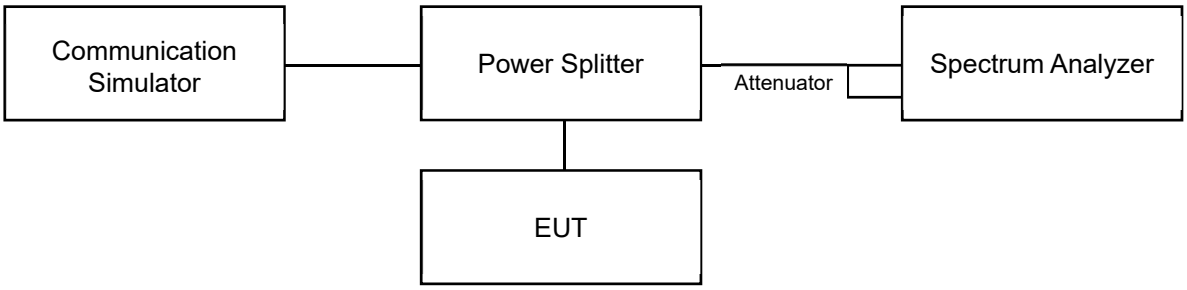
a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
d. The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target "−X dB" requirement, i.e., if the requirement calls for measuring the −26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
e. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
f. Determine the following reference values: 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).
g. Determine the "−X dB amplitude" as equal to (Reference Value − X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
h. 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 amplitude" determined in step f). If a marker is below this "−X dB amplitude" value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers.
i. The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

For the occupied bandwidth measurement method, please refer to section 5.4.4 of ANSI C63.26.

a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
d. The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target "−X dB" requirement, i.e., if the requirement calls for measuring the −26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
e. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
f. Determine the reference value by either of the following:
g. 1) 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).
h. 2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.
i. Determine the "−X dB amplitude" as equal to (Reference Value − X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
j. If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).
k. 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 amplitude" determined in step f). If a marker is below this "−X dB amplitude" value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers. The spectral envelope can cross the "−X dB amplitude" at multiple points. The lowest or highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the "−X dB amplitude."
l. The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



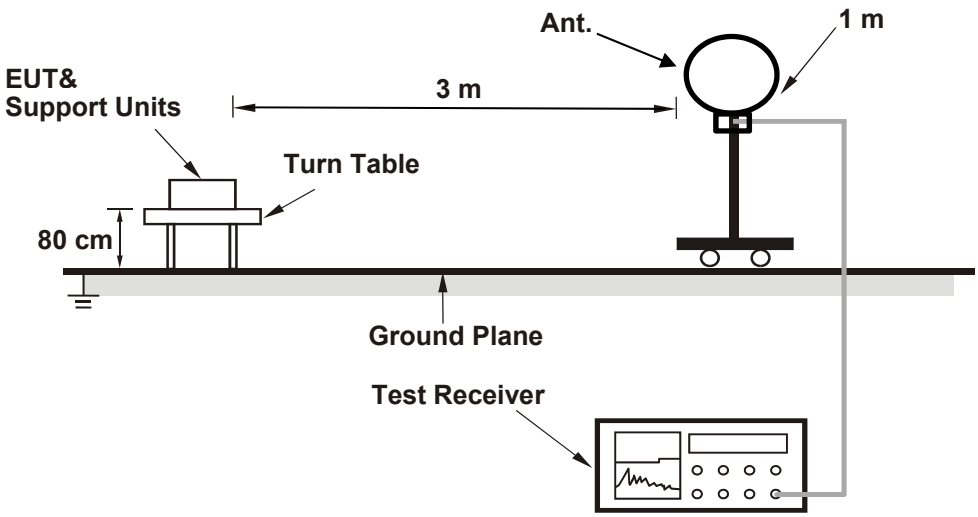
6.5.2 Test Procedure

a. Measurement refer to ANSI C63.26 section 5.7.
b. All measurements were done at 3 channels: low, middle and high operational frequency range.
c. Measuring frequency range is from 9 kHz up to the tenth harmonic of the hightest fundamental frequency or to 40 GHz, whichever is lower. 20 dB attenuation pad is connected with spectrum.
d. The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
e. The fundamental frequency below 1 GHz, the spectrum set RBW ≥ 100 kHz, VBW ≥ 3 x RBW, Detector = Average.
f. Measuring frequency band edge, narrow RBW (no less than 1% of the OBW) is used for conducted emission measurement.
g. For the emissions measurement method, certain channel BW modes demonstrate compliance by integrating with the smaller RBW allowed by the rule.
For example: Where Reference RBW = 1 MHz and a smaller RBW = 100 kHz is used, worst-case integrated BW power = [Max Measured Value (dBm) with RBW = 100 kHz] + 10* log(1000/100). To compensate for this integration before comparison to the value, the adjusted reference level offset was increase by 10 dB accordingly.
h. Record the maximum power value test plot.

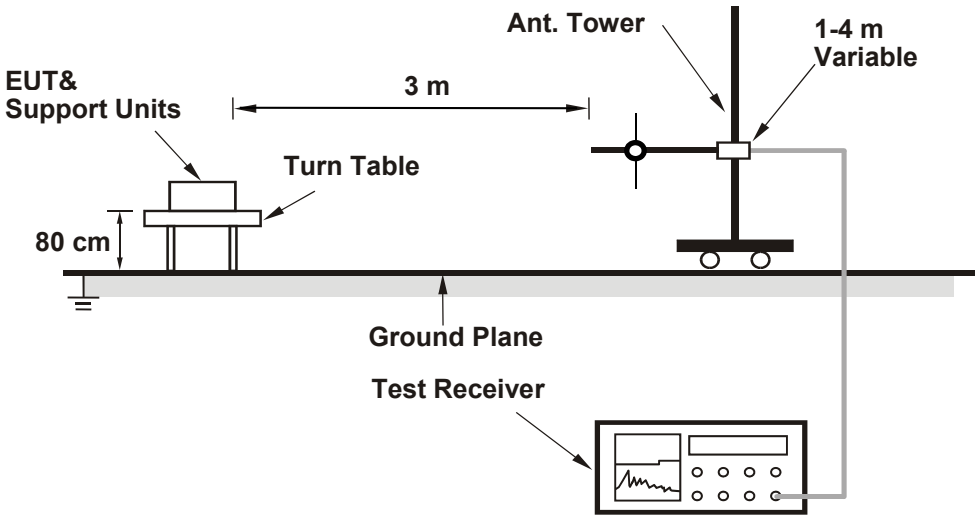
6.6 Radiated Spurious Emissions below 1GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.

d. Following ANSI C63.26 section 5.5 and 5.2.7

e. EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

f. ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

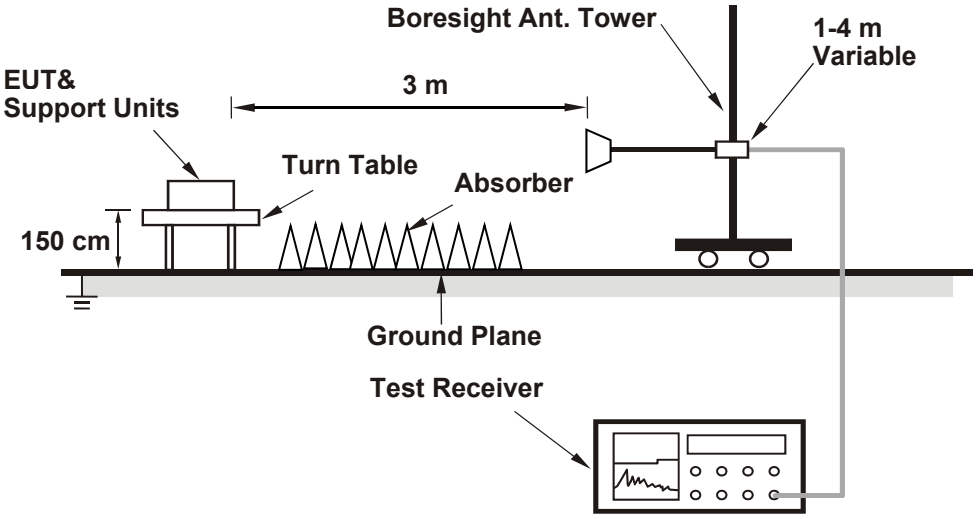
Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
2. The amplitude of spurious emissions in the range 9 kHz to 30 MHz which are attenuated more than 20 dB below the permissible value need not be reported.

6.7 Radiated Spurious Emissions above 1GHz

6.7.1 Test Setup

For radiated emission above 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

a. In the semi-anechoic chamber, EUT placed on the 1.5 m height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.

d. Following ANSI C63.26 section 5.5 and 5.2.7

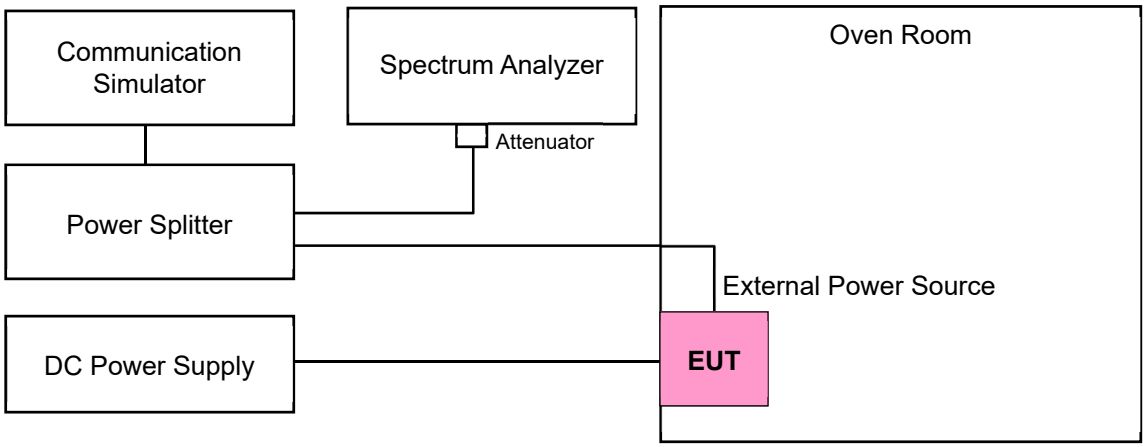
e. EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

f. ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.

6.8 Frequency Stability

6.8.1 Test Setup



6.8.2 Test Procedure

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology.

a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded frequency error from the communication simulator.

7 Test Results of Test Item

7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Input Power:	3.85 Vdc	Environmental Conditions:	23°C, 71% RH	Tested By:	Willy Cheng

7.1.1 NR n7 SCS 15 kHz

NR n7 SCS 15 kHz, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 500500	CH 507000	CH 513500
			2502.5 MHz	2535 MHz	2567.5 MHz
DFT-S BPSK	1	1	22.17	22.18	22.11
DFT-S QPSK	1	1	22.22	22.23	22.20
	1	12	22.17	22.21	22.16
	1	23	22.06	22.11	22.08
	12	0	21.24	21.27	21.21
	12	6	22.01	22.11	22.08
	12	13	21.12	21.15	21.11
	24	0	21.07	21.06	21.02
DFT-S 16QAM	1	1	20.06	20.11	20.08
DFT-S 64QAM	1	1	19.51	19.55	19.52
DFT-S 256QAM	1	1	17.67	17.75	17.70

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.11	22.18	25.29	25.36	33.01
DFT-S QPSK	21.02	22.23	24.20	25.41	33.01
DFT-S 16QAM	20.06	20.11	23.24	23.29	33.01
DFT-S 64QAM	19.51	19.55	22.69	22.73	33.01
DFT-S 256QAM	17.67	17.75	20.85	20.93	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n7 SCS 15 kHz, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 501000	CH 507000	CH 513000
			2505 MHz	2535 MHz	2565 MHz
DFT-S BPSK	1	1	22.11	22.13	22.08
DFT-S QPSK	1	1	22.28	22.34	22.22
	1	12	22.15	22.18	22.11
	1	23	22.25	22.26	22.13
	12	0	21.40	21.45	21.43
	12	6	22.00	22.10	22.07
	12	13	21.21	21.25	21.23
	24	0	21.16	21.24	21.16
DFT-S 16QAM	1	1	20.09	20.10	20.04
DFT-S 64QAM	1	1	19.76	19.78	19.73
DFT-S 256QAM	1	1	17.87	17.91	17.90

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.08	22.13	25.26	25.31	33.01
DFT-S QPSK	21.16	22.34	24.34	25.52	33.01
DFT-S 16QAM	20.04	20.10	23.22	23.28	33.01
DFT-S 64QAM	19.73	19.78	22.91	22.96	33.01
DFT-S 256QAM	17.87	17.91	21.05	21.09	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n7 SCS 15 kHz, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 501500	CH 507000	CH 512500
			2507.5 MHz	2535 MHz	2562.5 MHz
DFT-S BPSK	1	1	22.03	22.08	22.04
DFT-S QPSK	1	1	22.46	22.48	22.40
	1	19	22.11	22.18	22.15
	1	36	22.33	22.36	22.35
	18	0	22.09	22.11	22.09
	18	10	21.47	21.58	21.56
	18	20	22.15	22.23	22.12
	36	0	21.07	21.09	21.02
DFT-S 16QAM	1	1	21.30	21.38	21.29
DFT-S 64QAM	1	1	20.20	20.28	20.26
DFT-S 256QAM	1	1	19.87	19.98	19.96

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.03	22.08	25.21	25.26	33.01
DFT-S QPSK	21.02	22.48	24.20	25.66	33.01
DFT-S 16QAM	20.20	20.28	23.38	23.46	33.01
DFT-S 64QAM	19.87	19.98	23.05	23.16	33.01
DFT-S 256QAM	18.00	18.11	21.18	21.29	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n7 SCS 15 kHz, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 502000	CH 507000	CH 512000
			2510 MHz	2535 MHz	2560 MHz
DFT-S BPSK	1	1	22.15	22.18	22.06
DFT-S QPSK	1	1	22.59	22.62	22.61
	1	26	22.25	22.36	22.35
	1	49	22.48	22.50	22.49
	25	0	21.65	21.66	21.62
	25	13	22.35	22.36	22.30
	25	26	21.19	21.22	21.21
	50	0	21.48	21.52	21.48
DFT-S 16QAM	1	1	20.30	20.39	20.37
DFT-S 64QAM	1	1	20.04	20.09	20.06
DFT-S 256QAM	1	1	18.05	18.21	18.14

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.06	22.18	25.24	25.36	33.01
DFT-S QPSK	21.19	22.62	24.37	25.80	33.01
DFT-S 16QAM	20.30	20.39	23.48	23.57	33.01
DFT-S 64QAM	20.04	20.09	23.22	23.27	33.01
DFT-S 256QAM	18.05	18.21	21.23	21.39	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n7 SCS 15 kHz, Channel Bandwidth: 25 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 502500	CH 507000	CH 511500
			2512.5 MHz	2535 MHz	2557.5 MHz
DFT-S BPSK	1	1	22.03	22.05	22.03
DFT-S QPSK	1	1	22.76	22.77	22.75
	1	33	22.61	22.49	22.63
	1	63	22.60	22.60	22.55
	32	0	21.79	21.77	21.80
	32	17	22.55	22.55	22.53
	32	33	21.43	21.35	21.40
	64	0	21.60	21.67	21.58
DFT-S 16QAM	1	1	20.64	20.51	20.60
DFT-S 64QAM	1	1	20.27	20.22	20.23
DFT-S 256QAM	1	1	18.19	18.28	18.27

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.03	22.05	25.21	25.23	33.01
DFT-S QPSK	21.35	22.77	24.53	25.95	33.01
DFT-S 16QAM	20.51	20.64	23.69	23.82	33.01
DFT-S 64QAM	20.22	20.27	23.40	23.45	33.01
DFT-S 256QAM	18.19	18.28	21.37	21.46	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n7 SCS 15 kHz, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 503000	CH 507000	CH 511000
			2515 MHz	2535 MHz	2555 MHz
DFT-S BPSK	1	1	22.07	22.03	22.06
DFT-S QPSK	1	1	22.97	22.98	22.97
	1	39	22.67	22.74	22.76
	1	76	22.67	22.72	22.73
	36	0	21.83	21.92	21.90
	36	21	22.89	22.78	22.91
	36	42	21.68	21.57	21.59
	75	0	21.67	21.79	21.71
DFT-S 16 QAM	1	1	20.81	20.76	20.83
DFT-S 64QAM	1	1	20.49	20.46	20.52
DFT-S 256QAM	1	1	18.42	18.38	18.41

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.03	22.07	25.21	25.25	33.01
DFT-S QPSK	21.57	22.98	24.75	26.16	33.01
DFT-S 16QAM	20.76	20.83	23.94	24.01	33.01
DFT-S 64QAM	20.46	20.52	23.64	23.70	33.01
DFT-S 256QAM	18.38	18.42	21.56	21.60	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n7 SCS 15 kHz, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 504000	CH 507000	CH 510000
			2520 MHz	2535 MHz	2550 MHz
DFT-S BPSK	1	1	22.25	22.26	22.20
DFT-S QPSK	1	1	23.23	23.32	23.25
	1	53	23.06	23.16	23.07
	1	104	23.10	23.08	23.15
	50	0	22.26	22.23	22.23
	50	28	23.20	23.23	23.16
	50	56	22.16	22.04	22.03
	100	0	22.06	22.12	22.07
DFT-S 16QAM	1	1	21.15	21.17	21.11
DFT-S 64QAM	1	1	20.75	20.69	20.78
DFT-S 256QAM	1	1	18.83	18.75	18.72

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.20	22.26	25.38	25.44	33.01
DFT-S QPSK	22.03	23.32	25.21	26.50	33.01
DFT-S 16QAM	21.11	21.17	24.29	24.35	33.01
DFT-S 64QAM	20.69	20.78	23.87	23.96	33.01
DFT-S 256QAM	18.72	18.83	21.90	22.01	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz)

NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 462000
			2310 MHz
DFT-S BPSK	1	1	20.86
DFT-S QPSK	1	1	20.88
	1	11	20.86
	1	22	20.87
	12	0	19.95
	12	6	20.82
	12	12	19.90
	24	0	19.86
DFT-S 16QAM	1	1	18.99
DFT-S 64QAM	1	1	18.42
DFT-S 256QAM	1	1	16.07
CP QPSK	1	1	19.37

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm/MHz)
DFT-S BPSK	20.86	20.86	23.74	23.74	24
DFT-S QPSK	19.86	20.88	22.74	23.76	24
DFT-S 16QAM	19.91	19.91	22.79	22.79	24
DFT-S 64QAM	18.59	18.59	21.47	21.47	24
DFT-S 256QAM	16.07	16.07	18.95	18.95	24
CP QPSK	19.37	19.37	22.25	22.25	24

Note: EIRP (dBm/5MHz) = Cond. Power (dBm/5MHz) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz)

NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 471000
			2355 MHz
DFT-S BPSK	1	1	20.74
DFT-S QPSK	1	1	20.84
	1	11	20.72
	1	22	20.77
	12	0	19.90
	12	6	20.79
	12	12	19.85
	24	0	19.81
DFT-S 16QAM	1	1	18.97
DFT-S 64QAM	1	1	18.47
DFT-S 256QAM	1	1	15.93
CP QPSK	1	1	19.51

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm/MHz)
DFT-S BPSK	20.74	20.74	23.62	23.62	24
DFT-S QPSK	19.81	20.84	22.69	23.72	24
DFT-S 16QAM	19.83	19.83	22.71	22.71	24
DFT-S 64QAM	18.47	18.47	21.35	21.35	24
DFT-S 256QAM	15.93	15.93	18.81	18.81	24
CP QPSK	19.51	19.51	22.39	22.39	24

Note: EIRP (dBm/5MHz) = Cond. Power (dBm/5MHz) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.4 NR n41 SCS 30 kHz

NR n41 SCS 30 kHz, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 500202	CH 518598	CH 537000
			2501.01 MHz	2592.99 MHz	2685 MHz
DFT-S BPSK	1	1	24.00	24.05	24.00
DFT-S QPSK	1	1	24.16	24.14	24.14
	1	12	24.12	24.09	24.11
	1	23	24.03	24.04	24.03
	12	0	23.07	23.09	23.08
	12	6	24.01	24.02	24.03
	12	13	23.52	23.55	23.52
	24	0	23.46	23.44	23.47
DFT-S 16QAM	1	1	22.41	22.43	22.36
DFT-S 64QAM	1	1	22.45	22.44	22.48
DFT-S 256QAM	1	1	21.38	21.44	21.43

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.00	24.05	27.18	27.23	33.01
DFT-S QPSK	23.07	24.16	26.25	27.34	33.01
DFT-S 16QAM	22.36	22.43	25.54	25.61	33.01
DFT-S 64QAM	22.44	22.48	25.62	25.66	33.01
DFT-S 256QAM	21.38	21.44	24.56	24.62	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 500700	CH 518598	CH 536496
			2503.5 MHz	2592.99 MHz	2682.48 MHz
DFT-S BPSK	1	1	24.01	24.08	24.05
DFT-S QPSK	1	1	24.15	24.16	24.17
	1	19	24.14	24.09	24.14
	1	36	24.09	24.07	24.07
	18	0	23.09	23.03	23.03
	18	10	24.00	24.06	24.06
	18	20	23.53	23.55	23.47
	36	0	23.46	23.47	23.49
DFT-S 16QAM	1	1	22.40	22.41	22.38
DFT-S 64QAM	1	1	22.47	22.47	22.45
DFT-S 256QAM	1	1	21.38	21.41	21.42

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.01	24.08	27.19	27.26	33.01
DFT-S QPSK	23.03	24.17	26.21	27.35	33.01
DFT-S 16QAM	22.38	22.41	25.56	25.59	33.01
DFT-S 64QAM	22.45	22.47	25.63	25.65	33.01
DFT-S 256QAM	21.38	21.42	24.56	24.60	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 501204	CH 518598	CH 535998
			2506.02 MHz	2592.99 MHz	2679.99 MHz
DFT-S BPSK	1	1	24.05	24.04	24.07
DFT-S QPSK	1	1	24.14	24.21	24.22
	1	26	24.09	24.07	24.11
	1	49	24.10	24.02	24.04
	25	0	23.09	23.03	23.01
	25	13	24.06	24.04	24.00
	25	26	23.56	23.55	23.50
	50	0	23.45	23.44	23.52
DFT-S 16QAM	1	1	22.41	22.42	22.37
DFT-S 64QAM	1	1	22.44	22.39	22.46
DFT-S 256QAM	1	1	21.36	21.43	21.36

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.04	24.07	27.22	27.25	33.01
DFT-S QPSK	23.01	24.22	26.19	27.40	33.01
DFT-S 16QAM	22.37	22.42	25.55	25.60	33.01
DFT-S 64QAM	22.39	22.46	25.57	25.64	33.01
DFT-S 256QAM	21.36	21.43	24.54	24.61	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 25 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 501702	CH 518598	CH 535500
			2508.51 MHz	2592.99 MHz	2677.5 MHz
DFT-S BPSK	1	1	24.11	24.06	24.08
DFT-S QPSK	1	1	24.12	24.21	24.09
	1	33	24.08	24.1	24.05
	1	63	24.02	24.02	24.01
	32	0	23.52	23.03	23.49
	32	17	24.01	24.06	24
	32	33	23.57	23.59	23.54
	64	0	23.53	23.46	23.5
DFT-S 16QAM	1	1	21.96	22.44	21.93
DFT-S 64QAM	1	1	21.94	22.4	21.91
DFT-S 256QAM	1	1	20.92	21.44	20.89

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.06	24.11	27.24	27.29	33.01
DFT-S QPSK	23.03	24.21	26.21	27.39	33.01
DFT-S 16QAM	21.93	22.44	25.11	25.62	33.01
DFT-S 64QAM	21.91	22.4	25.09	25.58	33.01
DFT-S 256QAM	20.89	21.44	24.07	24.62	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 502200	CH 518598	CH 534996
			2511 MHz	2592.99 MHz	2674.98 MHz
DFT-S BPSK	1	1	24.03	24.01	24.01
DFT-S QPSK	1	1	24.16	24.14	24.20
	1	39	24.06	24.13	24.09
	1	76	24.06	24.06	24.05
	36	0	23.03	23.03	23.03
	36	21	24.04	24.00	24.01
	36	42	23.49	23.51	23.55
	75	0	23.50	23.45	23.49
DFT-S 16 QAM	1	1	22.40	22.35	22.37
DFT-S 64QAM	1	1	22.43	22.43	22.46
DFT-S 256QAM	1	1	21.38	21.35	21.42

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.01	24.03	27.19	27.21	33.01
DFT-S QPSK	23.03	24.20	26.21	27.38	33.01
DFT-S 16QAM	22.35	22.40	25.53	25.58	33.01
DFT-S 64QAM	22.43	22.46	25.61	25.64	33.01
DFT-S 256QAM	21.35	21.42	24.53	24.60	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 503202	CH 518598	CH 534000
			2516.01 MHz	2592.99 MHz	2670 MHz
DFT-S BPSK	1	1	24.01	24.06	24.01
DFT-S QPSK	1	1	24.22	24.14	24.14
	1	53	24.06	24.07	24.14
	1	104	24.07	24.03	24.11
	50	0	23.02	23.08	23.07
	50	28	24.01	24.02	24.05
	50	56	23.47	23.47	23.51
	100	0	23.46	23.48	23.49
DFT-S 16QAM	1	1	22.43	22.37	22.36
DFT-S 64QAM	1	1	22.47	22.47	22.44
DFT-S 256QAM	1	1	21.38	21.38	21.35

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.01	24.06	27.19	27.24	33.01
DFT-S QPSK	23.02	24.22	26.20	27.40	33.01
DFT-S 16QAM	22.36	22.43	25.54	25.61	33.01
DFT-S 64QAM	22.44	22.47	25.62	25.65	33.01
DFT-S 256QAM	21.35	21.38	24.53	24.56	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 50 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 504204	CH 518598	CH 532998
			2521.02 MHz	2592.99 MHz	2664.99 MHz
DFT-S BPSK	1	1	24.03	24.04	24.08
DFT-S QPSK	1	1	24.14	24.19	24.14
	1	67	24.06	24.08	24.07
	1	131	24.06	24.08	24.11
	64	0	23.07	23.07	23.00
	64	35	24.00	24.03	24.02
	64	69	23.48	23.50	23.49
	128	0	23.50	23.51	23.47
DFT-S 16QAM	1	1	22.37	22.30	22.31
DFT-S 64QAM	1	1	22.35	22.39	22.34
DFT-S 256QAM	1	1	21.43	21.38	21.34

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.03	24.08	27.21	27.26	33.01
DFT-S QPSK	23.00	24.19	26.18	27.37	33.01
DFT-S 16QAM	22.30	22.37	25.48	25.55	33.01
DFT-S 64QAM	22.34	22.39	25.52	25.57	33.01
DFT-S 256QAM	21.34	21.43	24.52	24.61	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 60 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 505200	CH 518598	CH 531996
			2526 MHz	2592.99 MHz	2659.98 MHz
DFT-S BPSK	1	1	24.04	24.07	24.02
DFT-S QPSK	1	1	24.13	24.15	24.21
	1	81	24.08	24.10	24.15
	1	160	24.10	24.09	24.05
	81	0	23.08	23.06	23.02
	81	41	24.01	24.01	24.00
	81	81	23.55	23.53	23.54
	162	0	23.50	23.50	23.51
DFT-S 16QAM	1	1	22.41	22.34	22.41
DFT-S 64QAM	1	1	22.41	22.41	22.39
DFT-S 256QAM	1	1	21.44	21.40	21.35

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.02	24.07	27.20	27.25	33.01
DFT-S QPSK	23.02	24.21	26.20	27.39	33.01
DFT-S 16QAM	22.34	22.41	25.52	25.59	33.01
DFT-S 64QAM	22.39	22.41	25.57	25.59	33.01
DFT-S 256QAM	21.35	21.44	24.53	24.62	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 70 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 506202	CH 518598	CH 531000
			2531.01 MHz	2592.99 MHz	2655 MHz
DFT-S BPSK	1	1	24.03	24.08	24.07
DFT-S QPSK	1	1	24.20	24.19	24.21
	1	95	24.15	24.12	24.09
	1	187	24.11	24.08	24.10
	90	0	23.06	23.08	23.00
	90	50	24.01	24.01	24.04
	90	99	23.56	23.50	23.56
	180	0	23.52	23.45	23.51
DFT-S 16QAM	1	1	22.37	22.37	22.42
DFT-S 64QAM	1	1	22.41	22.44	22.40
DFT-S 256QAM	1	1	21.39	21.35	21.36

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.03	24.08	27.21	27.26	33.01
DFT-S QPSK	23.00	24.21	26.18	27.39	33.01
DFT-S 16QAM	22.37	22.42	25.55	25.60	33.01
DFT-S 64QAM	22.40	22.44	25.58	25.62	33.01
DFT-S 256QAM	21.35	21.39	24.53	24.57	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 80 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 507204	CH 518598	CH 529998
			2536.02 MHz	2592.99 MHz	2649.99 MHz
DFT-S BPSK	1	1	24.05	24.04	24.05
DFT-S QPSK	1	1	24.14	24.21	24.13
	1	109	24.06	24.13	24.09
	1	215	24.08	24.10	24.02
	108	0	23.06	23.05	23.02
	108	55	24.04	24.00	24.04
	108	109	23.54	23.48	23.55
	216	0	23.44	23.47	23.49
DFT-S 16QAM	1	1	22.40	22.39	22.40
DFT-S 64QAM	1	1	22.47	22.48	22.44
DFT-S 256QAM	1	1	21.39	21.44	21.41

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.04	24.05	27.22	27.23	33.01
DFT-S QPSK	23.02	24.21	26.20	27.39	33.01
DFT-S 16QAM	22.39	22.40	25.57	25.58	33.01
DFT-S 64QAM	22.44	22.48	25.62	25.66	33.01
DFT-S 256QAM	21.39	21.44	24.57	24.62	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 90 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 508200	CH 518598	CH 528996
			2541 MHz	2592.99 MHz	2644.98 MHz
DFT-S BPSK	1	1	24.00	24.08	24.06
DFT-S QPSK	1	1	24.14	24.22	24.16
	1	123	24.08	24.06	24.14
	1	243	24.05	24.09	24.10
	120	0	23.08	23.06	23.06
	120	63	24.01	24.02	24.06
	120	125	23.56	23.53	23.53
	243	0	23.45	23.50	23.44
DFT-S 16QAM	1	1	22.40	22.39	22.38
DFT-S 64QAM	1	1	22.47	22.48	22.42
DFT-S 256QAM	1	1	21.41	21.42	21.36

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.00	24.08	27.18	27.26	33.01
DFT-S QPSK	23.06	24.22	26.24	27.40	33.01
DFT-S 16QAM	22.38	22.40	25.56	25.58	33.01
DFT-S 64QAM	22.42	22.48	25.60	25.66	33.01
DFT-S 256QAM	21.36	21.42	24.54	24.60	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n41 SCS 30 kHz, Channel Bandwidth: 100 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 509202	CH 518598	CH 528000
			2546.01 MHz	2592.99 MHz	2640 MHz
DFT-S BPSK	1	1	24.01	24.09	24.07
DFT-S QPSK	1	1	24.22	24.23	24.16
	1	137	24.08	24.16	24.08
	1	271	24.06	24.12	24.01
	135	0	23.03	23.10	23.02
	135	69	24.02	24.08	24.01
	135	138	23.41	23.57	23.43
	270	0	23.33	23.54	23.34
DFT-S 16QAM	1	1	22.27	22.44	22.30
DFT-S 64QAM	1	1	22.28	22.49	22.33
DFT-S 256QAM	1	1	21.26	21.45	21.21

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	24.01	24.09	27.19	27.27	33.01
DFT-S QPSK	23.02	24.23	26.20	27.41	33.01
DFT-S 16QAM	22.27	22.44	25.45	25.62	33.01
DFT-S 64QAM	22.28	22.49	25.46	25.67	33.01
DFT-S 256QAM	21.21	21.45	24.39	24.63	33.01

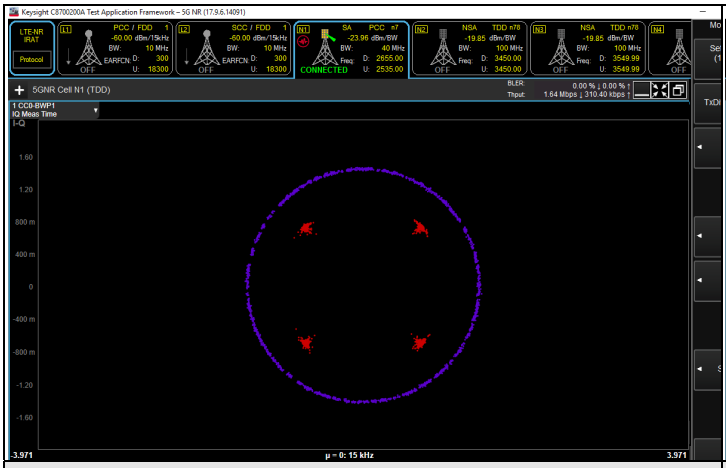
Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.2 Modulation Characteristics

Input Power:	3.85 Vdc	Environmental Conditions:	21°C, 70% RH	Tested By:	Willy Cheng

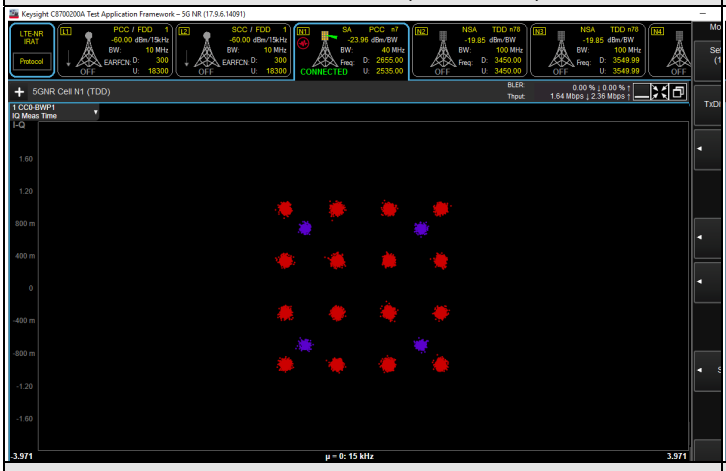
7.2.1 NR n7 SCS 15 kHz

NR n7 SCS 15 kHz, Channel Bandwidth: 40 MHz

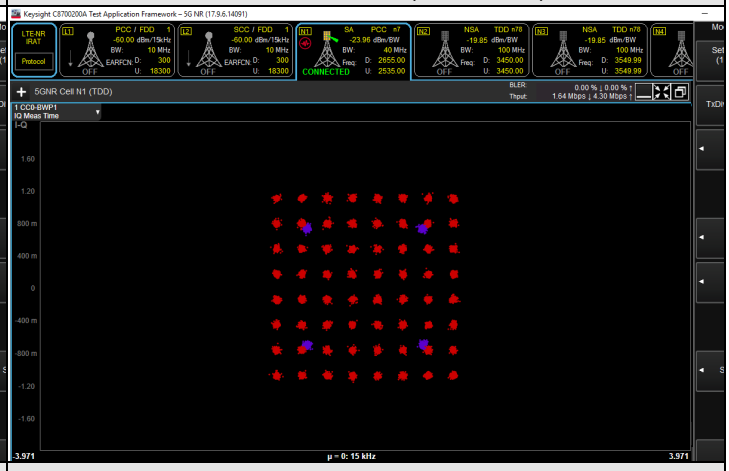


BPSK CH 507000 (2535 MHz)

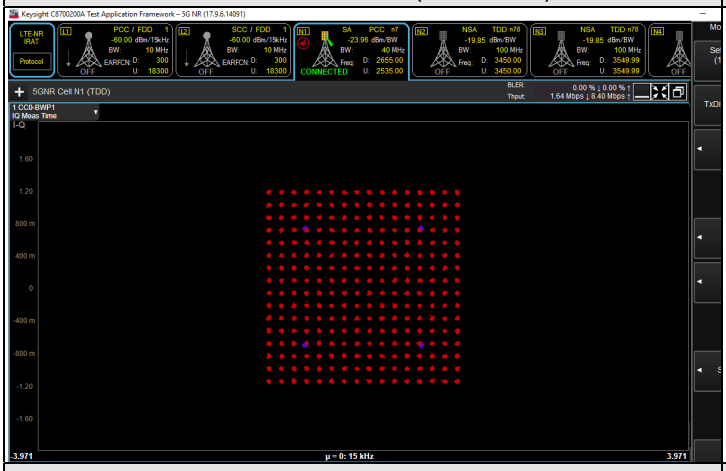
QPSK CH 507000 (2535 MHz)



16QAM CH 507000 (2535 MHz)



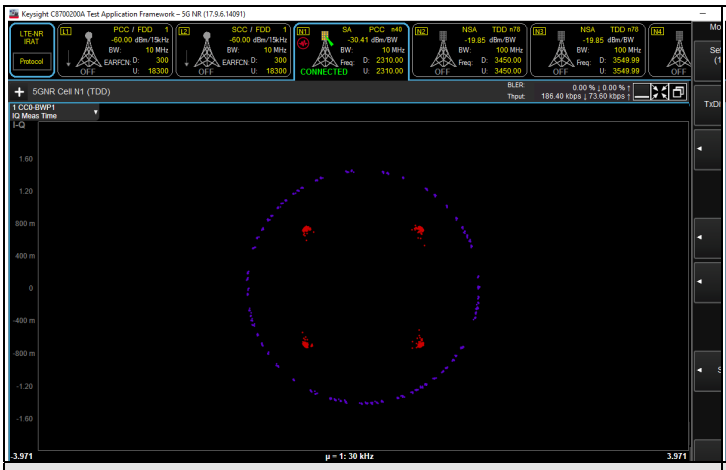
64QAM CH 507000 (2535 MHz)



256QAM CH 507000 (2535 MHz)

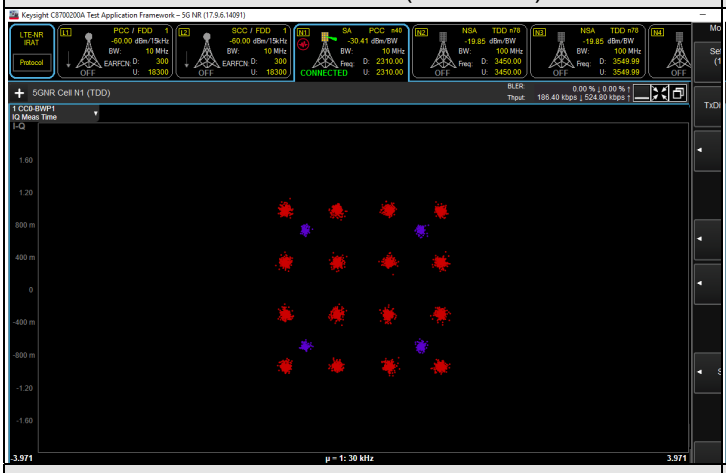
7.2.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz)

NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz), Channel Bandwidth: 10 MHz

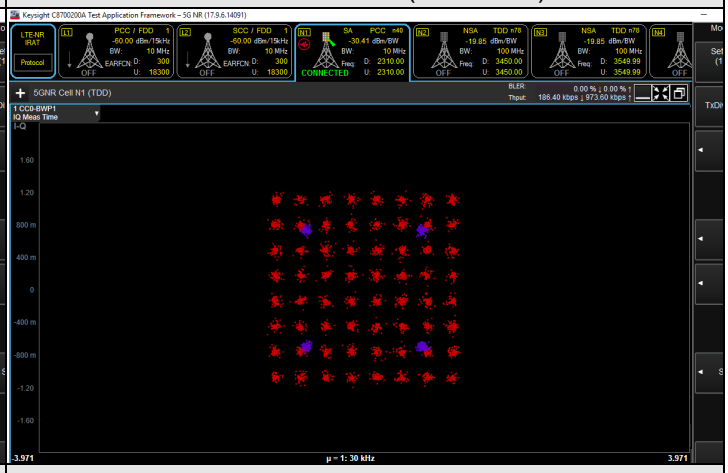


BPSK CH 462000 (2310 MHz)

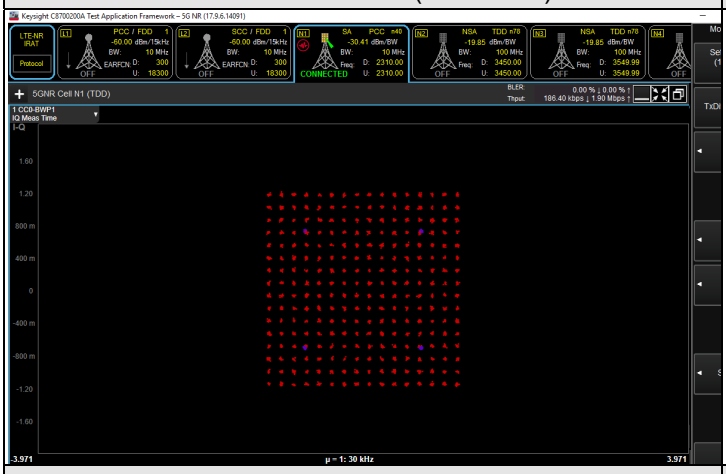
QPSK CH 462000 (2310 MHz)



16QAM CH 462000 (2310 MHz)



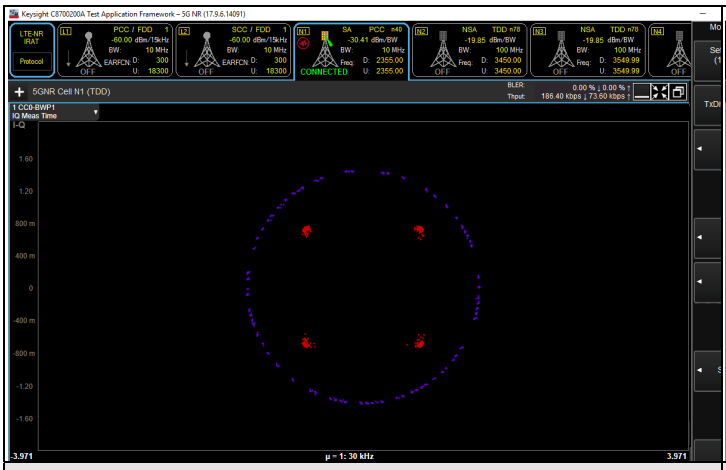
64QAM CH 462000 (2310 MHz)



256QAM CH 462000 (2310 MHz)

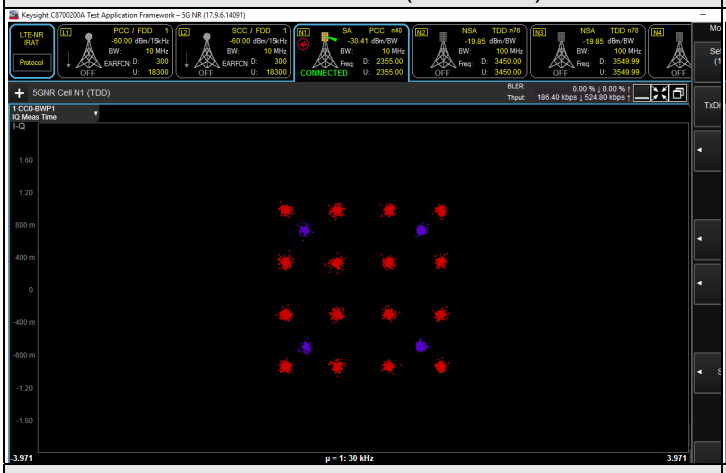
7.2.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz)

NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz), Channel Bandwidth: 10 MHz

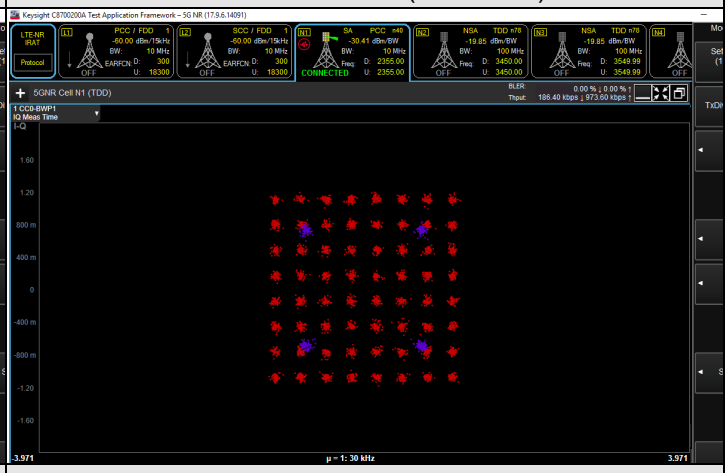


BPSK CH 471000 (2355 MHz)

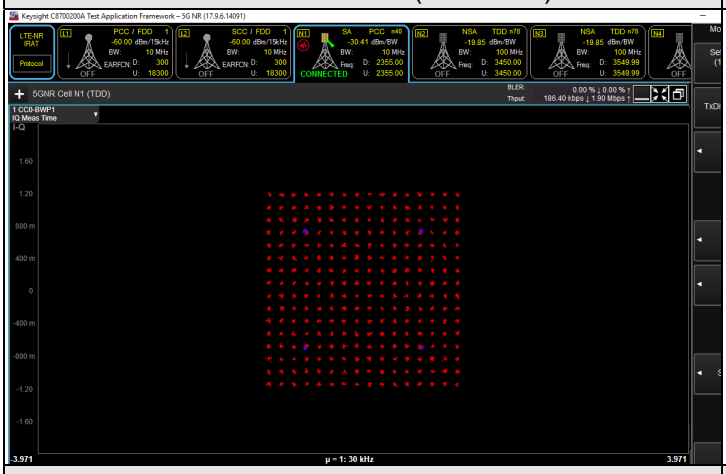
QPSK CH 471000 (2355 MHz)



16QAM CH 471000 (2355 MHz)



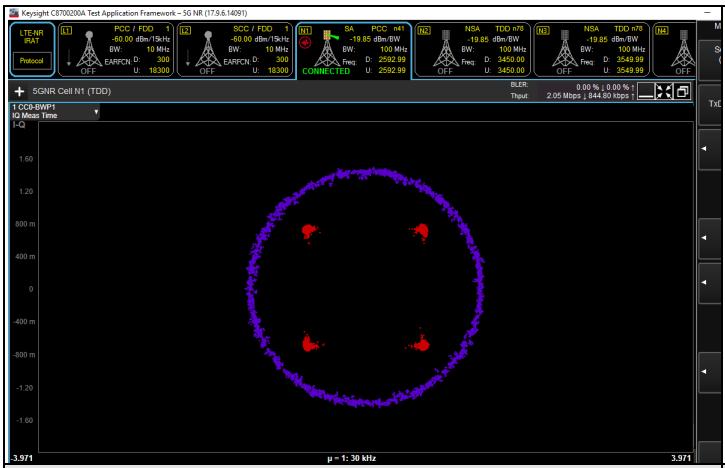
64QAM CH 471000 (2355 MHz)



256QAM CH 471000 (2355 MHz)

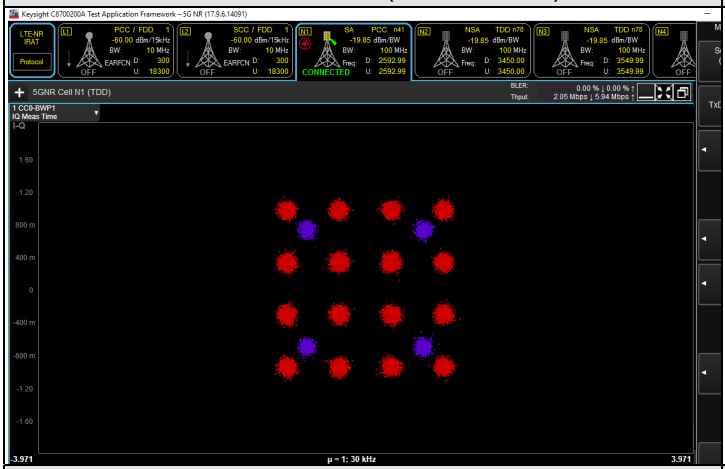
7.2.4 NR n41 SCS 30 kHz

NR n41 SCS 30 kHz, Channel Bandwidth: 100 MHz

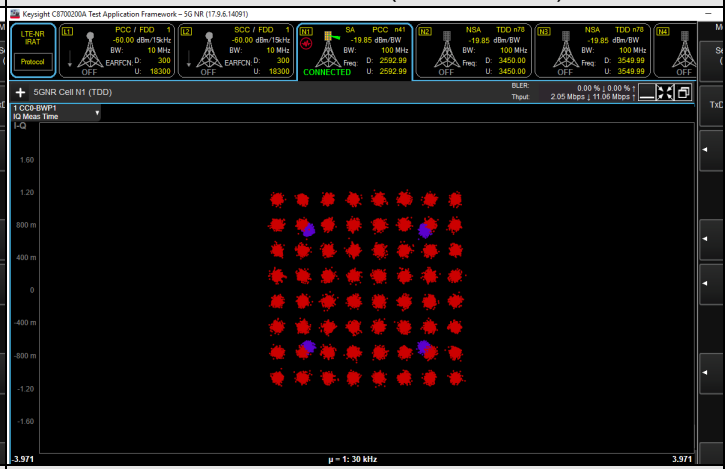


BPSK CH 518598 (2592.99 MHz)

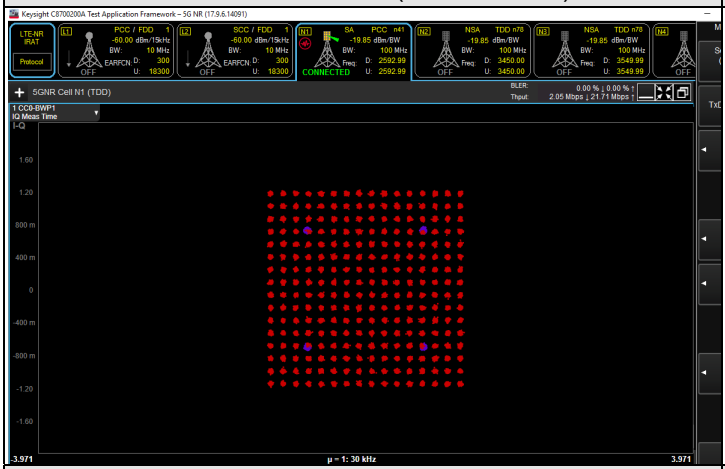
QPSK CH 518598 (2592.99 MHz)



16QAM CH 518598 (2592.99 MHz)



64QAM CH 518598 (2592.99 MHz)



256QAM CH 518598 (2592.99 MHz)

7.3 Peak to Average Ratio

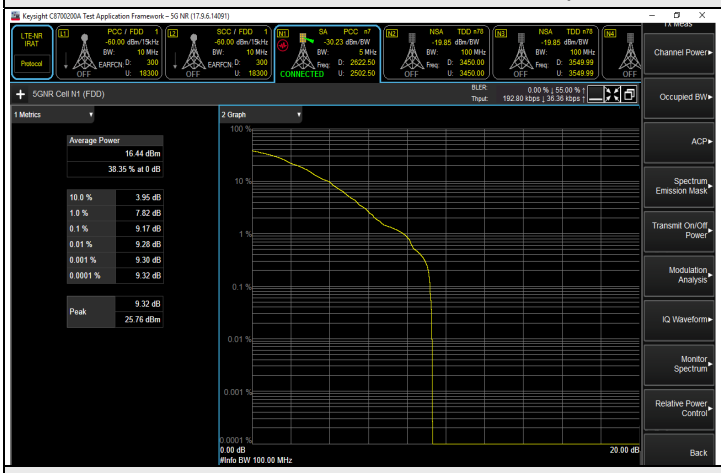
Input Power:	3.85 Vdc	Environmental Conditions:	21°C, 70% RH	Tested By:	Willy Cheng

7.3.1 NR n7 SCS 15 kHz

NR n7 SCS 15 kHz, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 500500	CH 507000	CH 513500
			2502.5 MHz	2535 MHz	2567.5 MHz
BPSK	1	64	4.22	3.25	4.09
	1	0	4.31	3.32	4.17
	65	0	4.24	3.27	4.09
QPSK	1	64	6.16	5.86	6.88
	1	0	6.19	5.94	6.93
	65	0	6.11	5.88	6.90
16QAM	1	64	7.08	6.70	6.78
	1	0	7.16	6.79	6.87
	65	0	7.07	6.73	6.78
64QAM	1	64	7.31	6.92	6.99
	1	0	7.40	6.96	7.06
	65	0	7.36	6.92	6.97
256QAM	1	64	9.11	7.91	8.61
	1	0	9.17	7.95	8.64
	65	0	9.10	7.89	8.60

Spectrum Plot of Worst Value

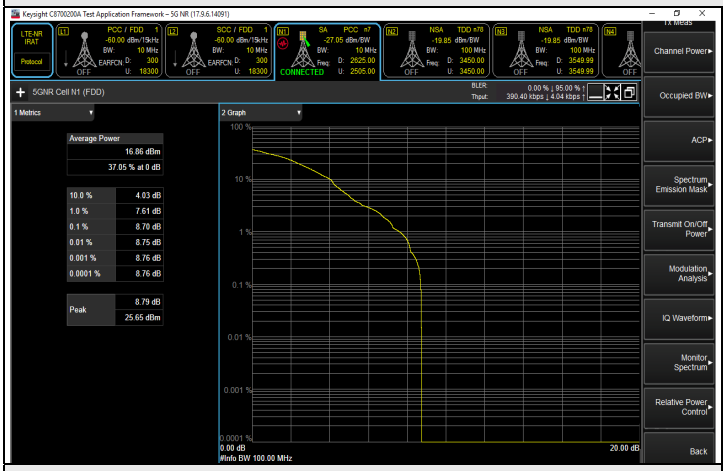


256QAM CH 500500 (2502.5 MHz)

NR n7 SCS 15 kHz, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 501000	CH 507000	CH 513000
			2505 MHz	2535 MHz	2565 MHz
BPSK	1	23	3.46	4.44	3.25
	1	0	3.53	4.53	3.28
	24	0	3.47	4.45	3.23
QPSK	1	23	6.12	7.07	6.37
	1	0	6.18	7.10	6.45
	24	0	6.12	7.03	6.39
16QAM	1	23	7.05	6.68	6.33
	1	0	7.14	6.72	6.41
	24	0	7.05	6.66	6.37
64QAM	1	23	7.34	6.90	6.73
	1	0	7.43	6.97	6.76
	24	0	7.40	6.94	6.72
256QAM	1	23	8.64	8.43	7.31
	1	0	8.70	8.46	7.34
	24	0	8.67	8.41	7.28

Spectrum Plot of Worst Value

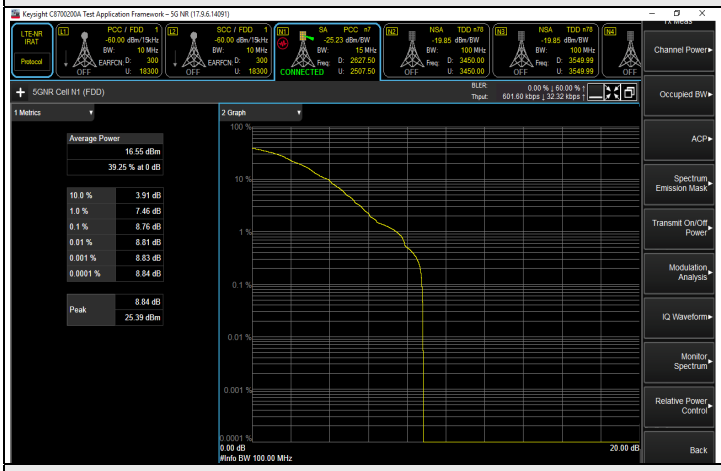


256QAM CH 501000 (2505 MHz)

NR n7 SCS 15 kHz, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 501500	CH 507000	CH 512500
			2507.5 MHz	2535 MHz	2562.5 MHz
BPSK	1	37	4.58	3.20	4.29
	1	0	4.62	3.27	4.37
	36	0	4.53	3.21	4.31
QPSK	1	37	7.22	5.79	6.89
	1	0	7.30	5.87	6.96
	38	0	7.22	5.83	6.88
16QAM	1	37	6.83	6.70	6.32
	1	0	6.89	6.73	6.37
	38	0	6.85	6.67	6.28
64QAM	1	37	7.11	6.84	6.77
	1	0	7.15	6.88	6.86
	38	0	7.12	6.82	6.77
256QAM	1	37	8.67	7.80	7.74
	1	0	8.76	7.88	7.77
	38	0	8.67	7.85	7.74

Spectrum Plot of Worst Value

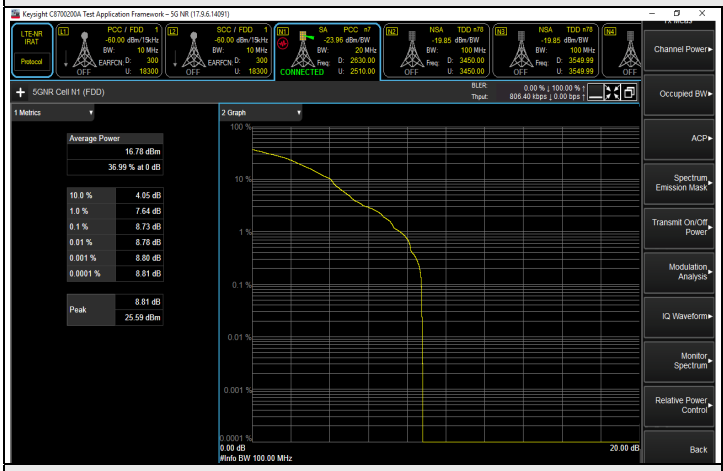


256QAM CH 501500 (2507.5 MHz)

NR n7 SCS 15 kHz, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 502000	CH 507000	CH 512000
			2510 MHz	2535 MHz	2560 MHz
BPSK	1	50	3.46	4.20	3.19
	1	0	3.50	4.24	3.24
	50	0	3.44	4.19	3.17
QPSK	1	50	6.09	7.02	6.39
	1	0	6.18	7.05	6.46
	51	0	6.11	7.01	6.41
16QAM	1	50	7.11	6.42	6.27
	1	0	7.17	6.49	6.32
	51	0	7.11	6.45	6.28
64QAM	1	50	7.35	6.57	6.82
	1	0	7.40	6.60	6.87
	51	0	7.33	6.51	6.83
256QAM	1	50	8.64	7.68	7.77
	1	0	8.73	7.75	7.84
	51	0	8.68	7.66	7.79

Spectrum Plot of Worst Value

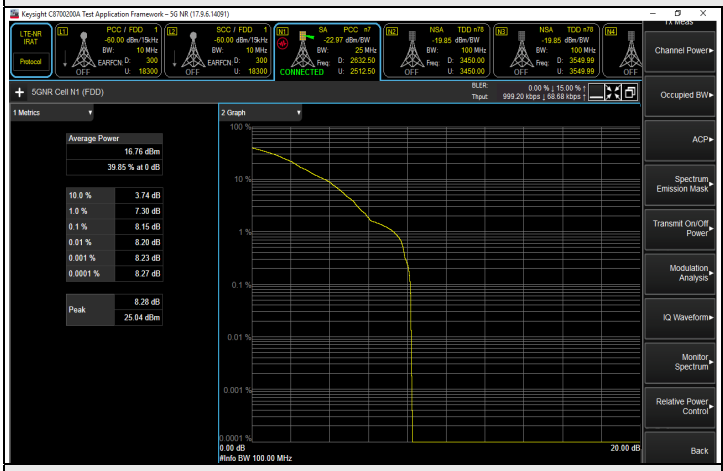


256QAM CH 502000 (2510 MHz)

NR n7 SCS 15 kHz, Channel Bandwidth: 25 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 502500	CH 507000	CH 511500
			2512.5 MHz	2535 MHz	2557.5 MHz
BPSK	1	77	4.40	3.18	4.51
	1	0	4.43	3.25	4.56
	75	0	4.36	3.22	4.47
QPSK	1	77	7.16	5.83	7.20
	1	0	7.20	5.92	7.27
	78	0	7.12	5.87	7.19
16QAM	1	77	6.70	6.82	6.36
	1	0	6.79	6.88	6.42
	78	0	6.73	6.79	6.35
64QAM	1	77	6.64	6.84	6.78
	1	0	6.73	6.90	6.81
	78	0	6.68	6.81	6.72
256QAM	1	77	8.12	7.99	7.90
	1	0	8.15	8.05	7.99
	78	0	8.06	7.98	7.92

Spectrum Plot of Worst Value

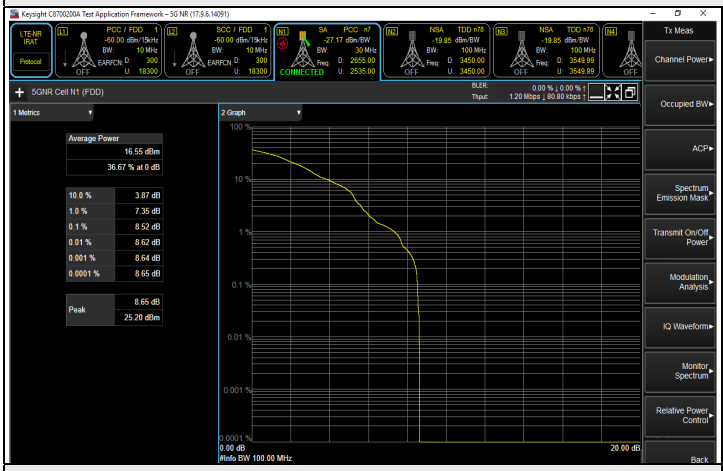


256QAM CH 502500 (2512.5 MHz)

NR n7 SCS 15 kHz, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 503000	CH 507000	CH 511000
			2515 MHz	2535 MHz	2555 MHz
BPSK	1	77	3.41	4.40	3.05
	1	0	3.49	4.43	3.10
	75	0	3.46	4.40	3.05
QPSK	1	77	6.11	7.09	6.25
	1	0	6.14	7.18	6.29
	78	0	6.11	7.13	6.25
16QAM	1	77	7.18	6.69	6.21
	1	0	7.22	6.76	6.27
	78	0	7.17	6.73	6.20
64QAM	1	77	7.30	6.95	6.53
	1	0	7.37	7.00	6.58
	78	0	7.31	6.91	6.55
256QAM	1	77	8.44	8.45	7.31
	1	0	8.47	8.52	7.37
	78	0	8.38	8.43	7.34

Spectrum Plot of Worst Value

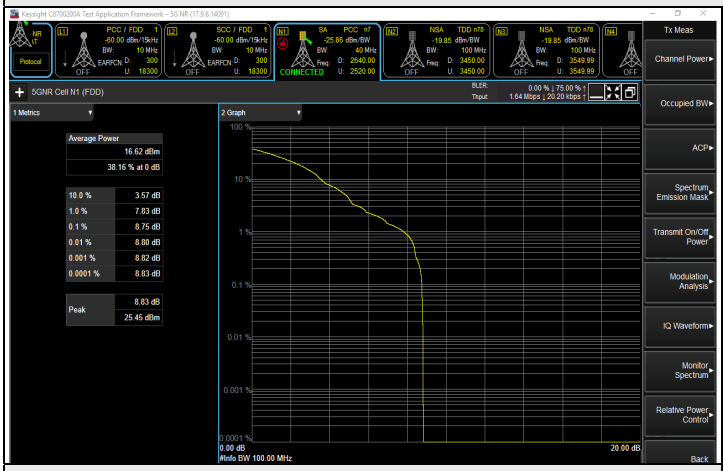


256QAM CH 507000 (2535 MHz)

NR n7 SCS 15 kHz, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 504000	CH 507000	CH 510000
			2520 MHz	2535 MHz	2550 MHz
BPSK	1	105	4.49	3.09	4.41
	1	0	4.53	3.12	4.46
	100	0	4.44	3.06	4.37
QPSK	1	105	7.18	5.63	7.26
	1	0	7.25	5.72	7.32
	106	0	7.17	5.63	7.29
16QAM	1	105	6.38	6.24	6.29
	1	0	6.47	6.32	6.33
	106	0	6.42	6.24	6.27
64QAM	1	105	6.90	6.50	6.89
	1	0	6.99	6.56	6.94
	106	0	6.96	6.53	6.88
256QAM	1	105	8.71	7.22	8.08
	1	0	8.75	7.28	8.12
	106	0	8.66	7.25	8.03

Spectrum Plot of Worst Value

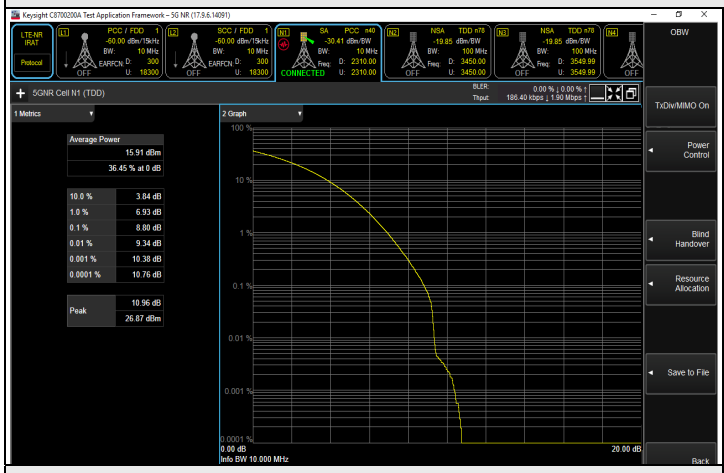


256QAM CH 504000 (2520 MHz)

7.3.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz)

NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz), Channel Bandwidth: 10 MHz

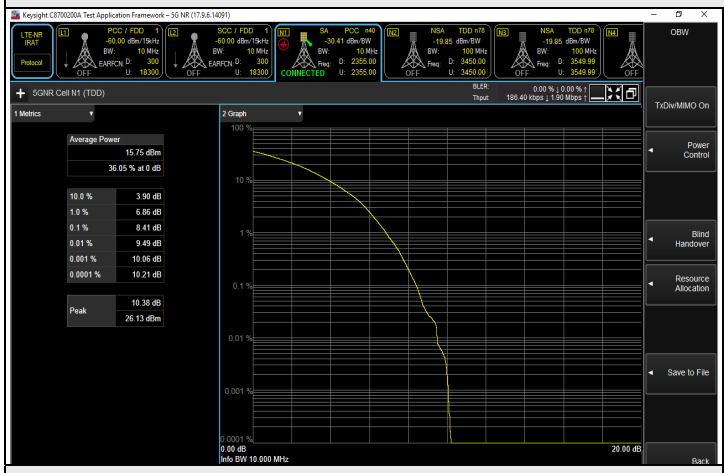
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)
			CH 462000
			2310 MHz
BPSK	1	23	4.03
	1	0	4.09
	24	0	4.05
QPSK	1	23	6.90
	1	0	6.93
	24	0	6.89
16QAM	1	23	6.91
	1	0	6.94
	24	0	6.86
64QAM	1	23	7.33
	1	0	7.36
	24	0	7.29
256QAM	1	23	8.72
	1	0	8.80
	24	0	8.71

Spectrum Plot of Worst Value	
	
256QAM CH 462000 (2310 MHz)	

7.3.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz)

NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)
			CH 471000
			2355 MHz
BPSK	1	23	4.01
	1	0	4.09
	24	0	4.06
QPSK	1	23	6.85
	1	0	6.92
	24	0	6.89
16QAM	1	23	6.87
	1	0	6.91
	24	0	6.84
64QAM	1	23	7.31
	1	0	7.36
	24	0	7.27
256QAM	1	23	8.33
	1	0	8.41
	24	0	8.34

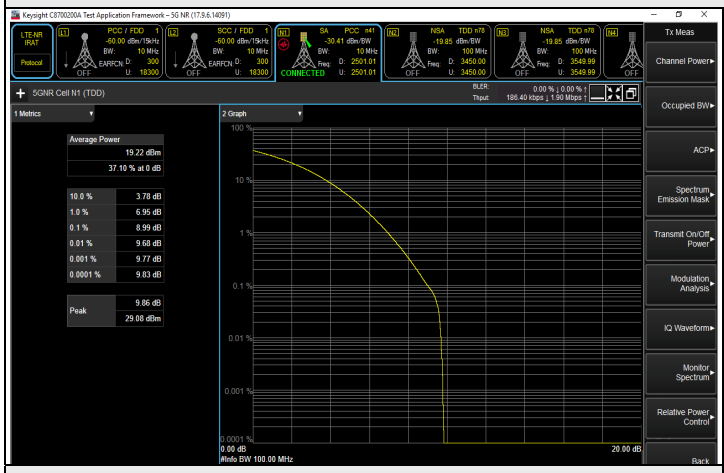
Spectrum Plot of Worst Value	
	
256QAM CH 471000 (2355 MHz)	

7.3.4 NR n41 SCS 30 kHz

NR n41 SCS 30 kHz, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 500202	CH 518598	CH 537000
			2501.01 MHz	2592.99 MHz	2685 MHz
BPSK	1	23	4.22	3.99	4.11
	1	0	4.27	4.06	4.17
	24	0	4.23	4.01	4.11
QPSK	1	23	6.83	6.86	6.91
	1	0	6.90	6.91	6.96
	24	0	6.85	6.85	6.92
16QAM	1	23	6.86	6.81	6.85
	1	0	6.94	6.89	6.94
	24	0	6.86	6.8	6.91
64QAM	1	23	7.24	7.29	7.35
	1	0	7.28	7.33	7.40
	24	0	7.25	7.24	7.35
256QAM	1	23	8.91	8.59	8.49
	1	0	8.99	8.62	8.54
	24	0	8.94	8.59	8.48

Spectrum Plot of Worst Value

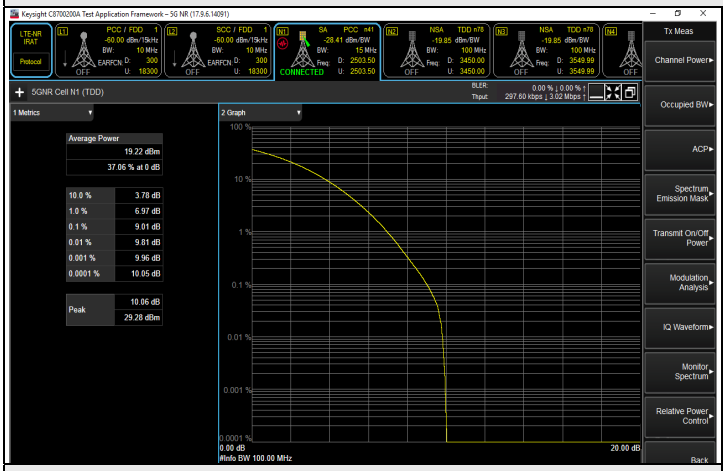


256QAM CH 500202 (2501.01 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 500700	CH 518598	CH 536496
			2503.5 MHz	2592.99 MHz	2682.48 MHz
BPSK	1	37	4.27	4.09	4.1
	1	0	4.35	4.15	4.18
	36	0	4.3	4.06	4.14
QPSK	1	37	6.83	6.8	6.84
	1	0	6.89	6.84	6.89
	38	0	6.8	6.77	6.85
16QAM	1	37	6.8	6.81	6.83
	1	0	6.89	6.89	6.87
	38	0	6.86	6.82	6.82
64QAM	1	37	7.3	7.3	7.39
	1	0	7.39	7.39	7.45
	38	0	7.3	7.31	7.36
256QAM	1	37	8.93	8.63	8.51
	1	0	9.01	8.68	8.55
	38	0	8.97	8.63	8.46

Spectrum Plot of Worst Value

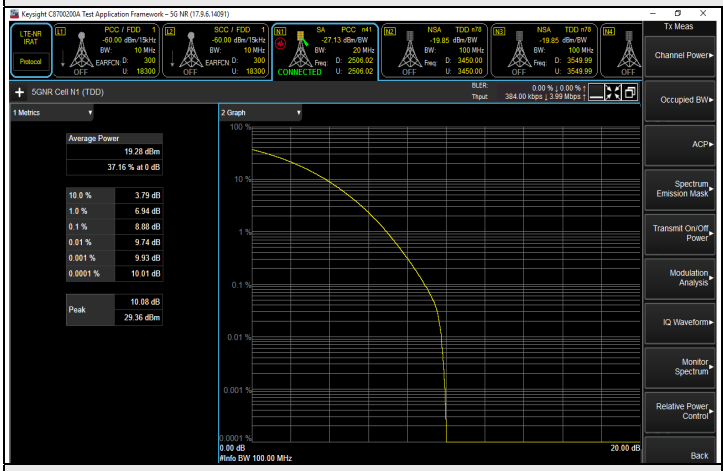


256QAM CH 500700 (2503.5 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 501204	CH 518598	CH 535998
			2506.02 MHz	2592.99 MHz	2679.99 MHz
BPSK	1	50	4.28	3.97	4.09
	1	0	4.33	4.05	4.13
	50	0	4.25	3.98	4.09
QPSK	1	50	6.83	6.73	6.84
	1	0	6.87	6.77	6.88
	51	0	6.84	6.71	6.8
16QAM	1	50	6.82	6.73	6.83
	1	0	6.85	6.77	6.92
	51	0	6.79	6.74	6.88
64QAM	1	50	7.32	7.25	7.4
	1	0	7.41	7.32	7.44
	51	0	7.33	7.24	7.39
256QAM	1	50	8.84	8.44	8.52
	1	0	8.88	8.52	8.60
	51	0	8.84	8.44	8.53

Spectrum Plot of Worst Value

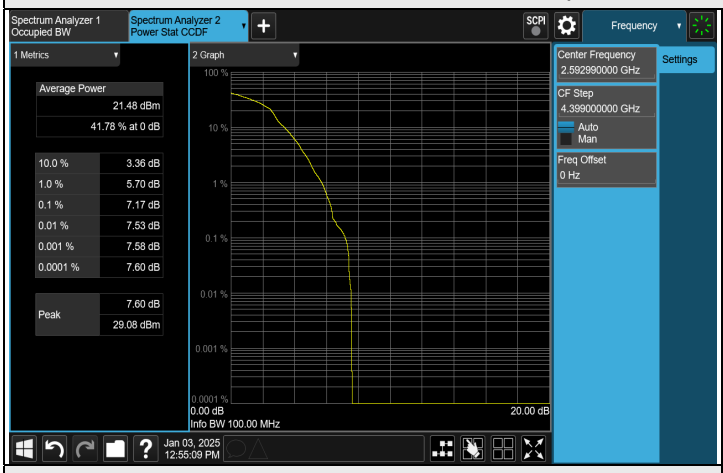


256QAM CH 501204 (2506.02 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 25 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 501702	CH 518598	CH 535500
			2508.51 MHz	2592.99 MHz	2677.5 MHz
BPSK	1	64	4.69	4.65	4.26
	1	0	4.75	4.69	4.29
	65	0	4.71	4.65	4.23
QPSK	1	64	4.67	4.79	4.57
	1	0	4.70	4.85	4.62
	65	0	4.64	4.76	4.56
16QAM	1	64	6.26	6.06	6.44
	1	0	6.30	6.13	6.47
	65	0	6.23	6.07	6.39
64QAM	1	64	6.75	6.41	6.48
	1	0	6.79	6.44	6.57
	65	0	6.71	6.41	6.51
256QAM	1	64	7.08	7.13	6.71
	1	0	7.15	7.17	6.79
	65	0	7.06	7.08	6.75

Spectrum Plot of Worst Value

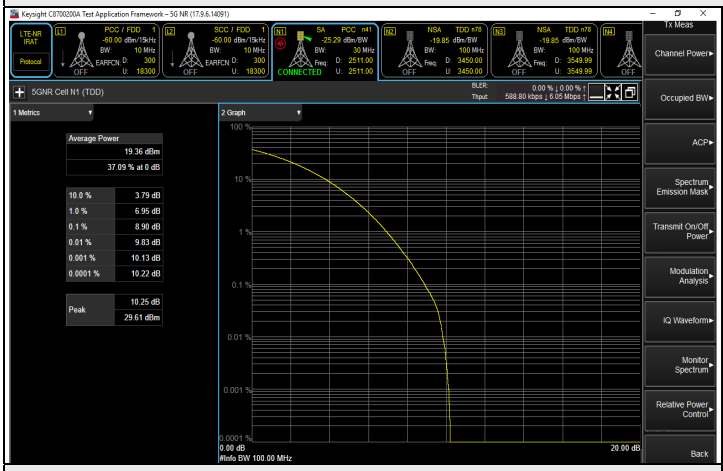


256QAM CH 518598 (2592.99 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 502200	CH 518598	CH 534996
			2511 MHz	2592.99 MHz	2674.98 MHz
BPSK	1	77	4.17	4.15	4.18
	1	0	4.26	4.20	4.25
	75	0	4.18	4.12	4.22
QPSK	1	77	6.78	6.75	6.86
	1	0	6.87	6.83	6.93
	78	0	6.78	6.78	6.85
16QAM	1	77	6.96	6.9	7.04
	1	0	7.02	6.97	7.09
	78	0	6.94	6.93	7.01
64QAM	1	77	7.37	7.3	7.47
	1	0	7.41	7.39	7.56
	78	0	7.38	7.33	7.49
256QAM	1	77	8.81	8.6	8.47
	1	0	8.90	8.66	8.55
	78	0	8.84	8.61	8.52

Spectrum Plot of Worst Value

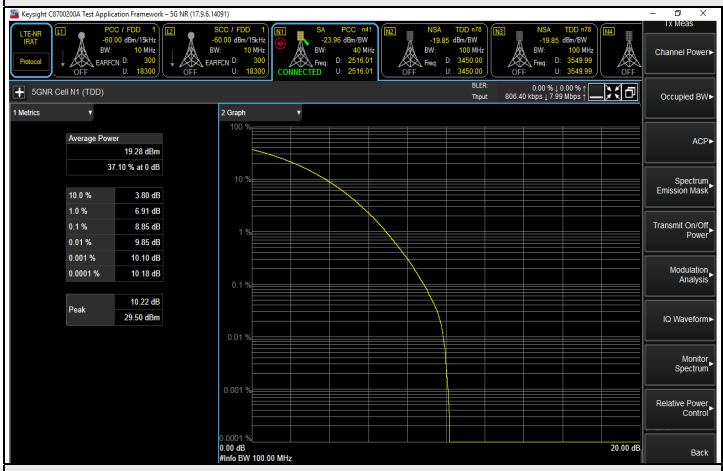


256QAM CH 502200 (2511 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 503202	CH 518598	CH 534000
			2516.01 MHz	2592.99 MHz	2670 MHz
BPSK	1	105	4.09	4.09	4.32
	1	0	4.15	4.17	4.40
	100	0	4.11	4.10	4.32
QPSK	1	105	6.76	6.76	6.87
	1	0	6.80	6.83	6.96
	106	0	6.77	6.76	6.90
16QAM	1	105	6.88	6.93	7.03
	1	0	6.96	6.96	7.07
	106	0	6.91	6.91	7.01
64QAM	1	105	7.28	7.24	7.41
	1	0	7.35	7.33	7.47
	106	0	7.31	7.24	7.40
256QAM	1	105	8.77	8.59	8.51
	1	0	8.85	8.64	8.57
	106	0	8.81	8.60	8.52

Spectrum Plot of Worst Value

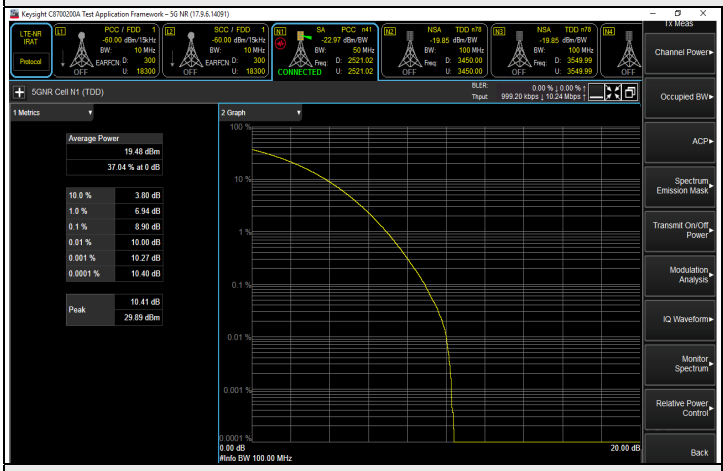


256QAM CH 503202 (2516.01 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 50 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 504204	CH 518598	CH 532998
			2521.02 MHz	2592.99 MHz	2664.99 MHz
BPSK	1	132	4.38	4.34	4.57
	1	0	4.45	4.42	4.65
	128	0	4.39	4.36	4.61
QPSK	1	132	6.93	6.90	6.96
	1	0	6.96	6.93	7.05
	133	0	6.92	6.84	6.97
16QAM	1	132	6.91	6.92	6.97
	1	0	6.94	6.98	7.05
	133	0	6.85	6.91	6.99
64QAM	1	132	7.40	7.42	7.50
	1	0	7.48	7.49	7.58
	133	0	7.45	7.46	7.51
256QAM	1	132	8.84	8.58	8.51
	1	0	8.90	8.63	8.57
	133	0	8.84	8.58	8.49

Spectrum Plot of Worst Value

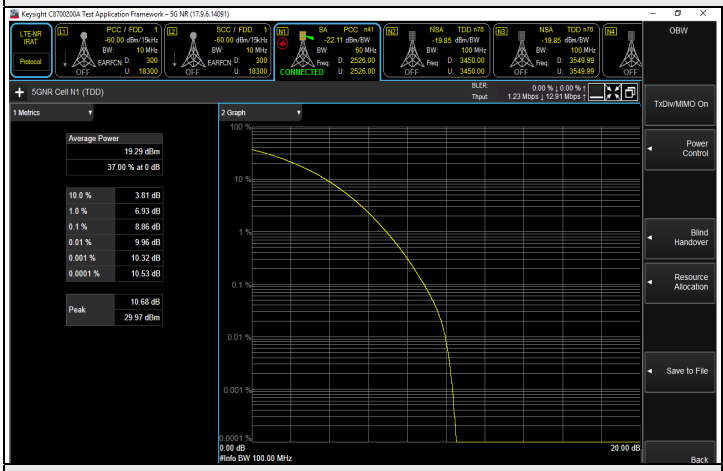


256QAM CH 504204 (2521.02 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 60 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 505200	CH 518598	CH 531996
			2526 MHz	2592.99 MHz	2659.98 MHz
BPSK	1	161	4.07	4.17	4.40
	1	0	4.10	4.23	4.47
	162	0	4.04	4.15	4.39
QPSK	1	161	7.03	6.96	7.07
	1	0	7.07	6.99	7.13
	162	0	7.03	6.94	7.10
16QAM	1	161	7.07	6.95	7.04
	1	0	7.11	7.00	7.13
	162	0	7.02	6.97	7.10
64QAM	1	161	7.47	7.46	7.53
	1	0	7.56	7.53	7.60
	162	0	7.51	7.48	7.51
256QAM	1	161	8.79	8.66	8.47
	1	0	8.86	8.70	8.56
	162	0	8.78	8.64	8.50

Spectrum Plot of Worst Value

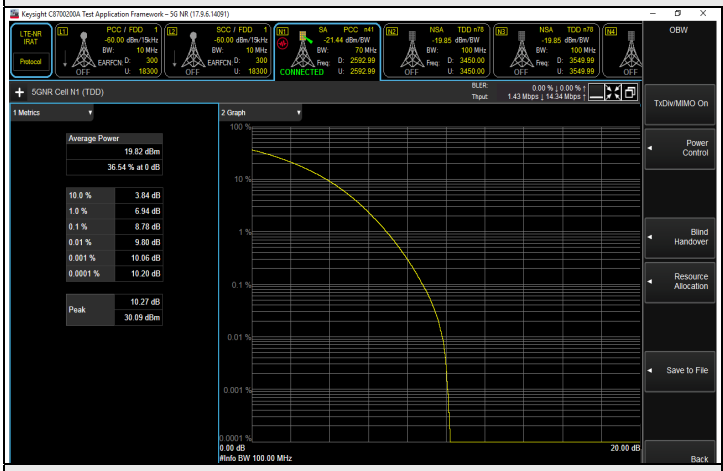


256QAM CH 505200 (2526 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 70 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 506202	CH 518598	CH 531000
			2531.01 MHz	2592.99 MHz	2655 MHz
BPSK	1	188	4.43	4.34	4.45
	1	0	4.47	4.40	4.52
	180	0	4.42	4.32	4.47
QPSK	1	188	7.09	6.97	7.08
	1	0	7.15	7.06	7.17
	189	0	7.10	7.01	7.13
16QAM	1	188	7.12	7.06	7.14
	1	0	7.20	7.09	7.21
	189	0	7.13	7.05	7.14
64QAM	1	188	7.57	7.54	7.55
	1	0	7.64	7.60	7.58
	189	0	7.59	7.57	7.52
256QAM	1	188	8.61	8.75	8.72
	1	0	8.68	8.78	8.75
	189	0	8.59	8.72	8.67

Spectrum Plot of Worst Value

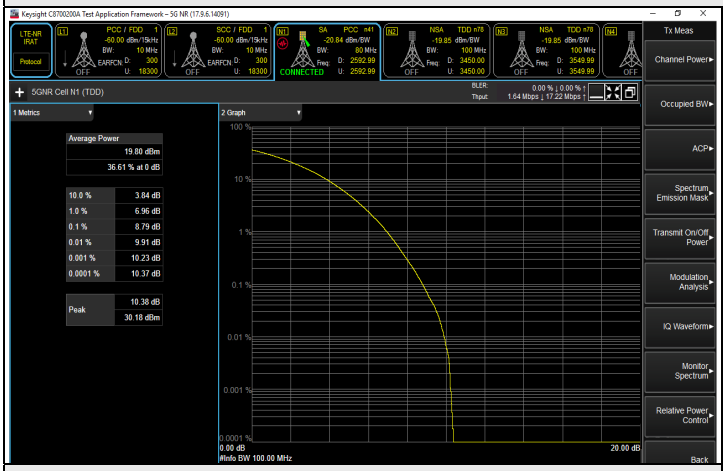


256QAM CH 518598 (2592.99 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 80 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 507204	CH 518598	CH 529998
			2536.02 MHz	2592.99 MHz	2649.99 MHz
BPSK	1	216	4.45	4.48	4.85
	1	0	4.51	4.54	4.89
	216	0	4.43	4.50	4.80
QPSK	1	216	7.18	7.13	7.17
	1	0	7.25	7.17	7.24
	217	0	7.19	7.13	7.20
16QAM	1	216	7.23	7.11	7.23
	1	0	7.26	7.17	7.30
	217	0	7.20	7.11	7.21
64QAM	1	216	7.53	7.48	7.56
	1	0	7.61	7.57	7.63
	217	0	7.55	7.48	7.55
256QAM	1	216	8.58	8.74	8.70
	1	0	8.65	8.79	8.76
	217	0	8.59	8.76	8.68

Spectrum Plot of Worst Value

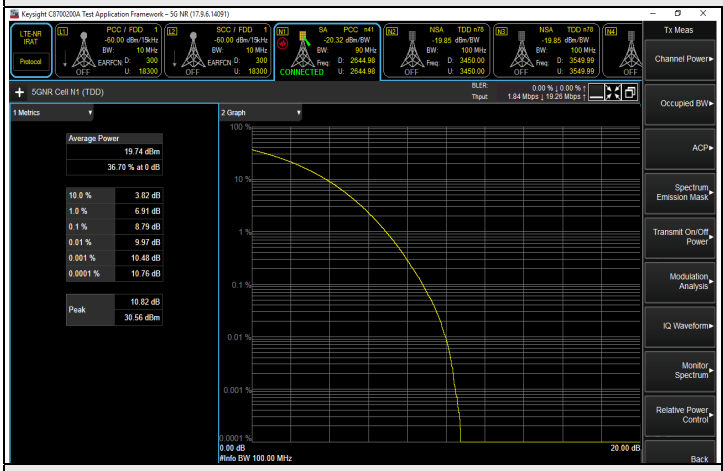


256QAM CH 518598 (2592.99 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 90 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 508200	CH 518598	CH 528996
			2541 MHz	2592.99 MHz	2644.98 MHz
BPSK	1	244	4.41	4.29	4.56
	1	0	4.50	4.34	4.63
	243	0	4.41	4.26	4.56
QPSK	1	244	7.15	7.11	7.23
	1	0	7.19	7.14	7.28
	245	0	7.10	7.09	7.25
16QAM	1	244	7.13	7.14	7.21
	1	0	7.22	7.20	7.28
	245	0	7.14	7.15	7.20
64QAM	1	244	7.66	7.57	7.62
	1	0	7.70	7.65	7.66
	245	0	7.65	7.57	7.59
256QAM	1	244	8.64	8.67	8.70
	1	0	8.69	8.73	8.79
	245	0	8.64	8.64	8.75

Spectrum Plot of Worst Value

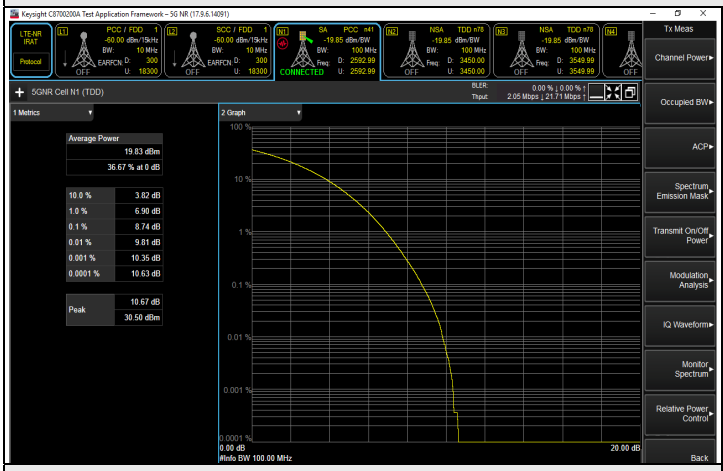


256QAM CH 528996 (2644.98 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 100 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 509202	CH 518598	CH 528000
			2546.01 MHz	2592.99 MHz	2640 MHz
BPSK	1	272	4.35	4.70	5.11
	1	0	4.39	4.76	5.17
	270	0	4.35	4.67	5.10
QPSK	1	272	7.30	7.23	7.37
	1	0	7.38	7.29	7.43
	273	0	7.33	7.22	7.37
16QAM	1	272	7.28	7.18	7.36
	1	0	7.36	7.27	7.44
	273	0	7.32	7.21	7.35
64QAM	1	272	7.78	7.75	7.71
	1	0	7.83	7.78	7.79
	273	0	7.76	7.70	7.73
256QAM	1	272	8.64	8.69	8.67
	1	0	8.72	8.74	8.70
	273	0	8.64	8.68	8.64

Spectrum Plot of Worst Value



256QAM CH 518598 (2592.99 MHz)

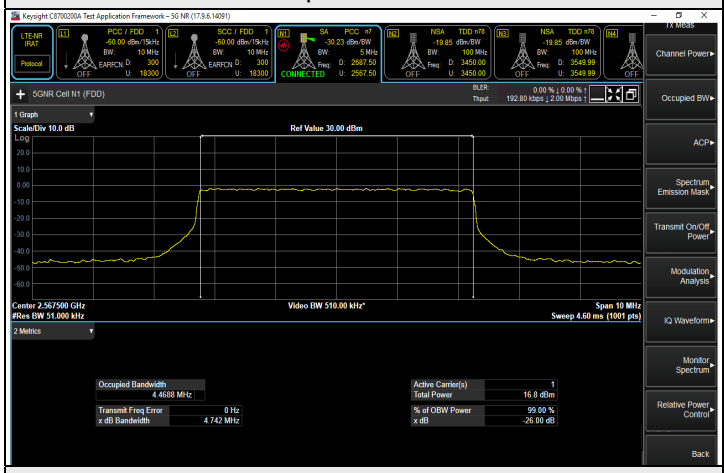
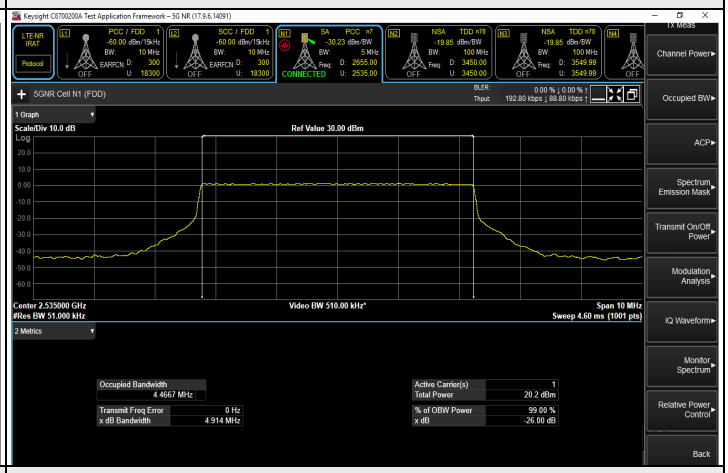
7.4 Bandwidth

Input Power:	3.85 Vdc	Environmental Conditions:	21°C, 70% RH	Tested By:	Willy Cheng

7.4.1 NR n7 SCS 15 kHz

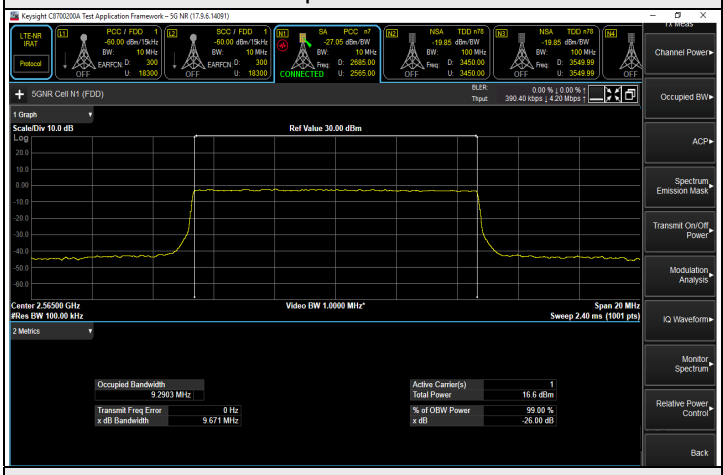
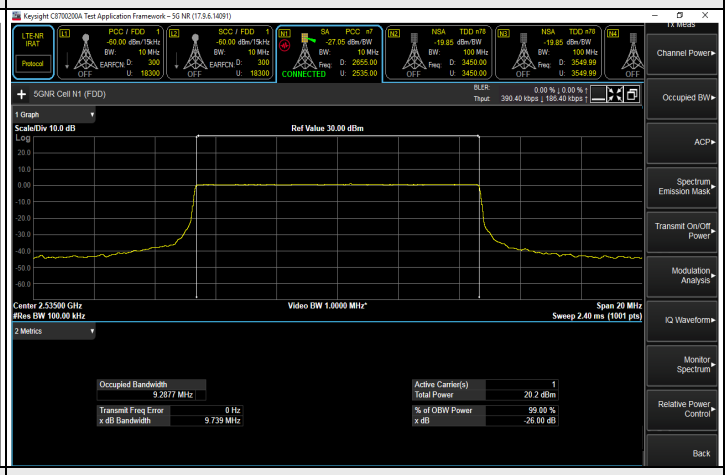
NR n7 SCS 15 kHz, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	500500	2502.5	4.4655	4.764
BPSK	507000	2535	4.4672	4.790
BPSK	513500	2567.5	4.4683	4.796
QPSK	500500	2502.5	4.4650	4.875
QPSK	507000	2535	4.4667	4.914
QPSK	513500	2567.5	4.4656	4.841
16QAM	500500	2502.5	4.4653	4.830
16QAM	507000	2535	4.4668	4.853
16QAM	513500	2567.5	4.4667	4.789
64QAM	500500	2502.5	4.4662	4.745
64QAM	507000	2535	4.4681	4.784
64QAM	513500	2567.5	4.4677	4.756
256QAM	500500	2502.5	4.4674	4.744
256QAM	507000	2535	4.4681	4.745
256QAM	513500	2567.5	4.4688	4.742

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 513500 (2567.5 MHz)	QPSK CH 507000 (2535 MHz)

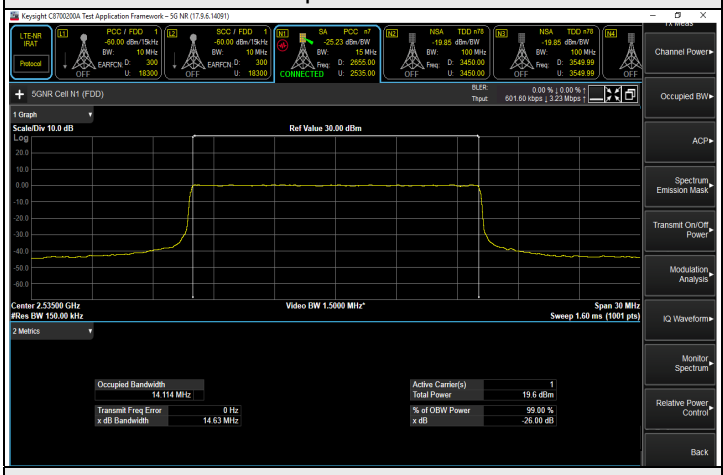
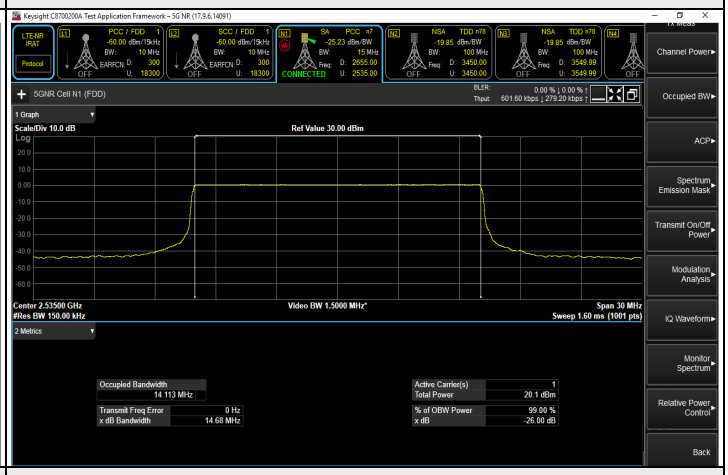
NR n7 SCS 15 kHz, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	501000	2505	9.1777	9.263
BPSK	507000	2535	9.2057	9.332
BPSK	513000	2565	9.2096	9.300
QPSK	501000	2505	9.2830	9.688
QPSK	507000	2535	9.2877	9.739
QPSK	513000	2565	9.2877	9.668
16QAM	501000	2505	9.2844	9.732
16QAM	507000	2535	9.2879	9.679
16QAM	513000	2565	9.2889	9.677
64QAM	501000	2505	9.2826	9.701
64QAM	507000	2535	9.2866	9.678
64QAM	513000	2565	9.2863	9.713
256QAM	501000	2505	9.2866	9.677
256QAM	507000	2535	9.2898	9.668
256QAM	513000	2565	9.2903	9.671

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 513000 (2565 MHz)	QPSK CH 507000 (2535 MHz)

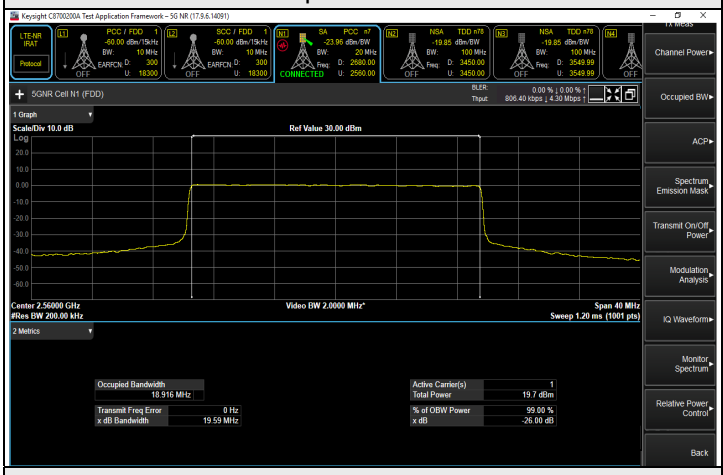
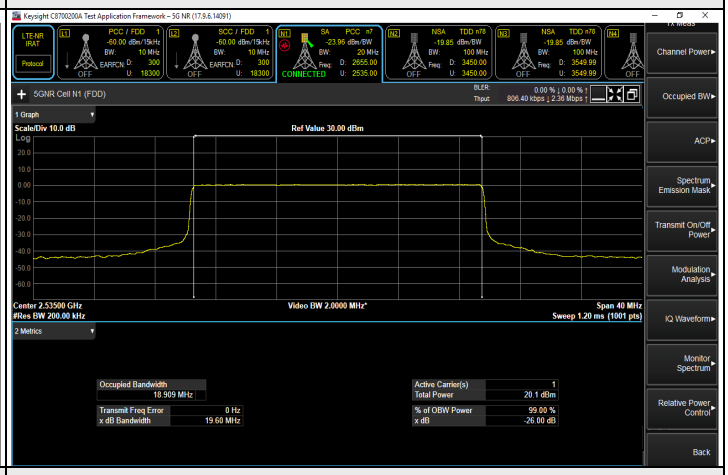
NR n7 SCS 15 kHz, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	501500	2507.5	13.982	13.90
BPSK	507000	2535	14.000	13.89
BPSK	512500	2562.5	14.041	13.92
QPSK	501500	2507.5	14.110	14.65
QPSK	507000	2535	14.113	14.68
QPSK	512500	2562.5	14.113	14.64
16QAM	501500	2507.5	14.103	14.64
16QAM	507000	2535	14.108	14.66
16QAM	512500	2562.5	14.105	14.64
64QAM	501500	2507.5	14.107	14.64
64QAM	507000	2535	14.114	14.63
64QAM	512500	2562.5	14.113	14.61
256QAM	501500	2507.5	14.107	14.62
256QAM	507000	2535	14.112	14.61
256QAM	512500	2562.5	14.112	14.60

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 507000 (2535 MHz)	QPSK CH 507000 (2535 MHz)

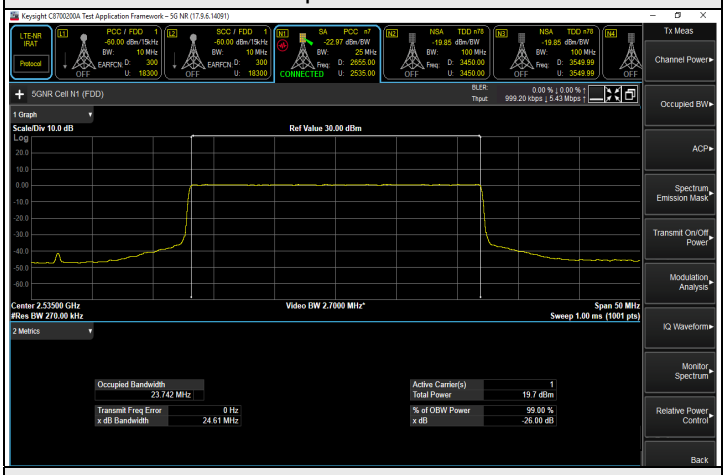
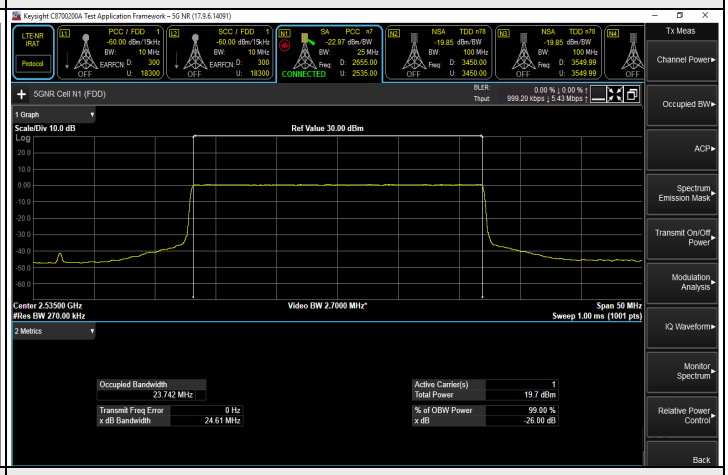
NR n7 SCS 15 kHz, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	502000	2510	18.730	18.52
BPSK	507000	2535	18.741	18.51
BPSK	512000	2560	18.753	18.50
QPSK	502000	2510	18.910	19.59
QPSK	507000	2535	18.913	19.59
QPSK	512000	2560	18.912	19.59
16QAM	502000	2510	18.908	19.59
16QAM	507000	2535	18.909	19.60
16QAM	512000	2560	18.908	19.60
64QAM	502000	2510	18.912	19.59
64QAM	507000	2535	18.913	19.58
64QAM	512000	2560	18.916	19.59
256QAM	502000	2510	18.910	19.57
256QAM	507000	2535	18.916	19.58
256QAM	512000	2560	18.916	19.58

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 512000 (2560 MHz)	16QAM CH 507000 (2535 MHz)

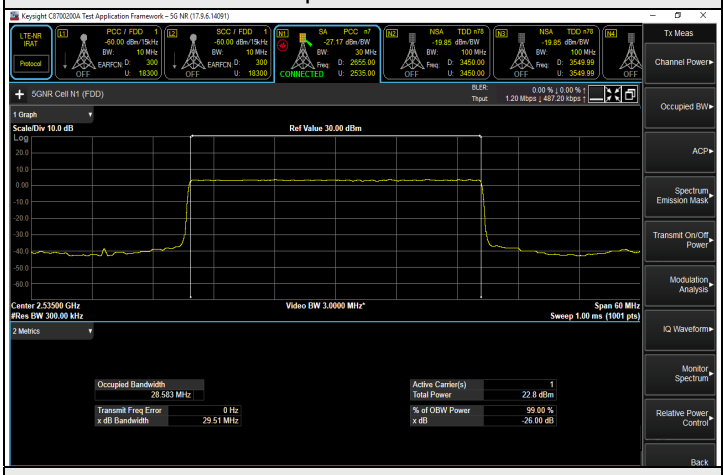
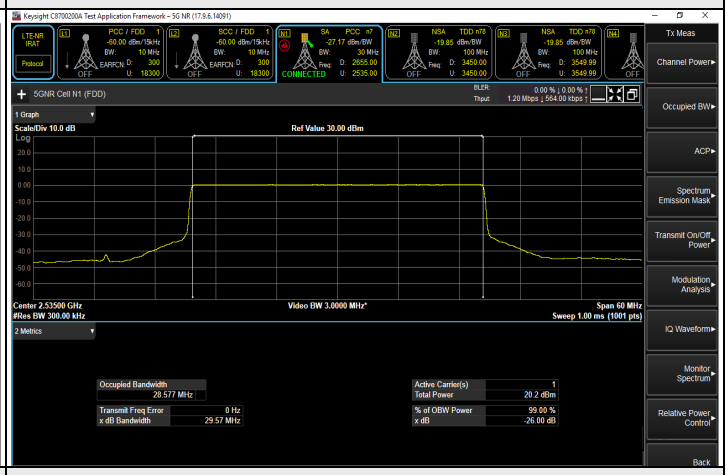
NR n7 SCS 15 kHz, Channel Bandwidth: 25 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	502500	2512.5	23.447	23.69
BPSK	507000	2535	23.503	23.68
BPSK	511500	2557.5	23.538	23.69
QPSK	502500	2512.5	23.737	24.61
QPSK	507000	2535	23.740	24.61
QPSK	511500	2557.5	23.738	24.59
16QAM	502500	2512.5	23.735	24.61
16QAM	507000	2535	23.736	24.60
16QAM	511500	2557.5	23.736	24.60
64QAM	502500	2512.5	23.736	24.60
64QAM	507000	2535	23.742	24.61
64QAM	511500	2557.5	23.741	24.60
256QAM	502500	2512.5	23.734	24.58
256QAM	507000	2535	23.739	24.60
256QAM	511500	2557.5	23.738	24.58

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 507000 (2535 MHz)	64QAM CH 507000 (2535 MHz)

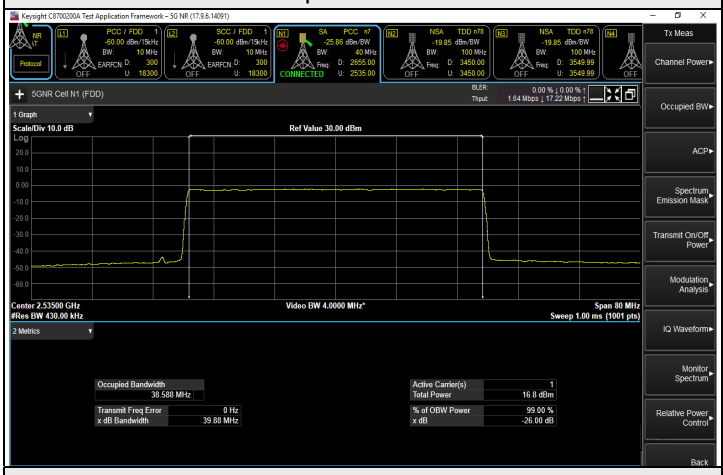
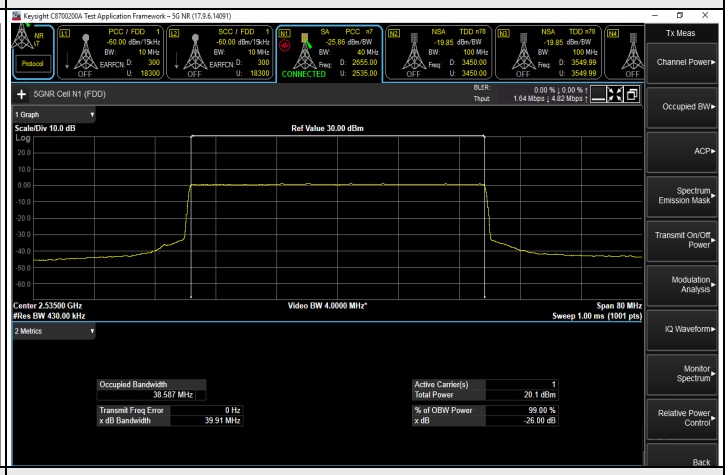
NR n7 SCS 15 kHz, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	503000	2515	28.579	29.50
BPSK	507000	2535	28.583	29.51
BPSK	511000	2555	28.580	29.50
QPSK	503000	2515	28.577	29.54
QPSK	507000	2535	28.577	29.57
QPSK	511000	2555	28.577	29.54
16QAM	503000	2515	28.580	29.51
16QAM	507000	2535	28.582	29.51
16QAM	511000	2555	28.581	29.51
64QAM	503000	2515	28.562	29.51
64QAM	507000	2535	28.568	29.52
64QAM	511000	2555	28.564	29.51
256QAM	503000	2515	28.571	29.50
256QAM	507000	2535	28.575	29.51
256QAM	511000	2555	28.573	29.50

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
BPSK CH 507000 (2535 MHz)	QPSK CH 507000 (2535 MHz)

NR n7 SCS 15 kHz, Channel Bandwidth: 40 MHz

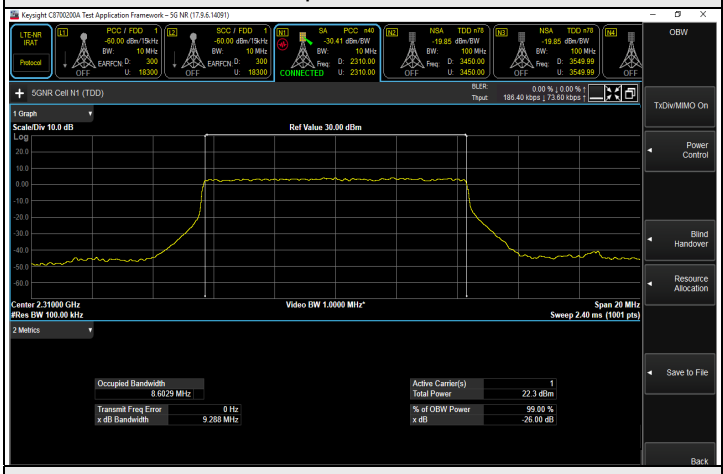
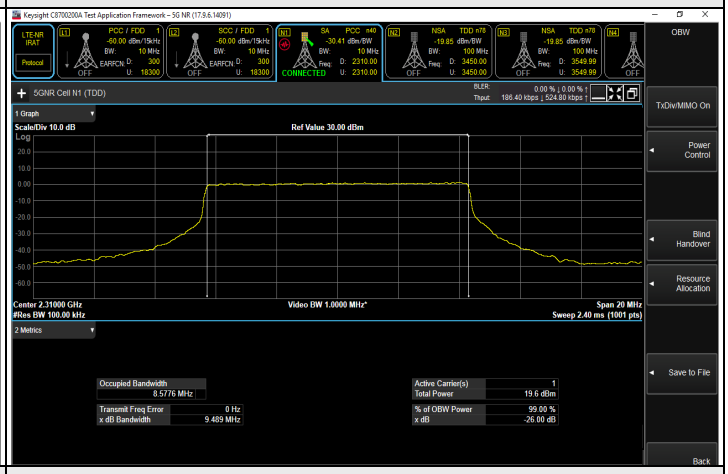
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	504000	2520	38.577	39.88
BPSK	507000	2535	38.568	39.85
BPSK	510000	2550	38.586	39.88
QPSK	504000	2520	38.578	39.90
QPSK	507000	2535	38.585	39.91
QPSK	510000	2550	38.575	39.90
16QAM	504000	2520	38.584	39.89
16QAM	507000	2535	38.587	39.91
16QAM	510000	2550	38.573	39.88
64QAM	504000	2520	38.571	39.89
64QAM	507000	2535	38.576	39.89
64QAM	510000	2550	38.579	39.88
256QAM	504000	2520	38.576	39.86
256QAM	507000	2535	38.588	39.88
256QAM	510000	2550	38.569	39.86

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 507000 (2535 MHz)	16QAM CH 507000 (2535 MHz)

7.4.2 NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz)

NR n40 SCS 30 kHz (2.305 GHz ~ 2.315 GHz), Channel Bandwidth: 10 MHz

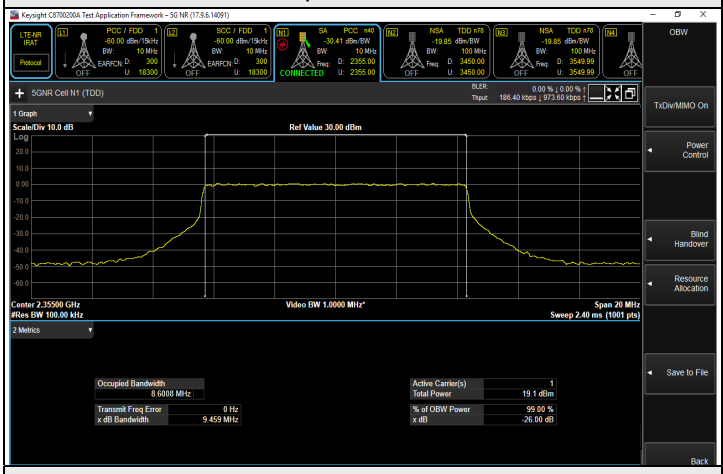
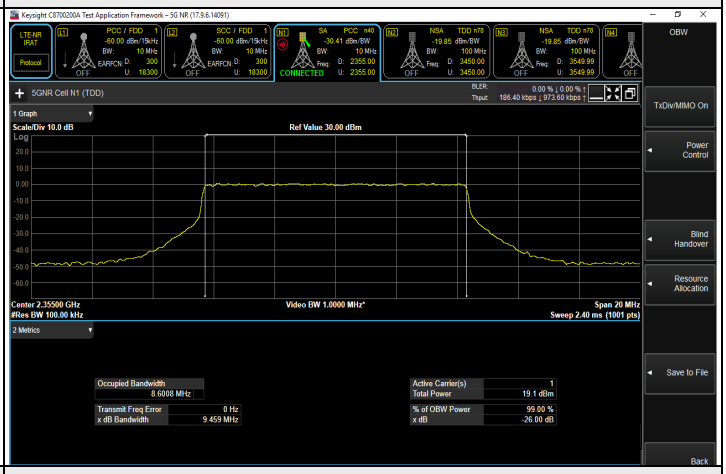
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	462000	2310	8.6029	9.288
QPSK	462000	2310	8.5744	9.309
16QAM	462000	2310	8.5776	9.489
64QAM	462000	2310	8.5721	9.284
256QAM	462000	2310	8.5775	9.174

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
BPSK CH 462000 (2310 MHz)	16QAM CH 462000 (2310 MHz)

7.4.3 NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz)

NR n40 SCS 30 kHz (2.35 GHz ~ 2.36 GHz), Channel Bandwidth: 10 MHz

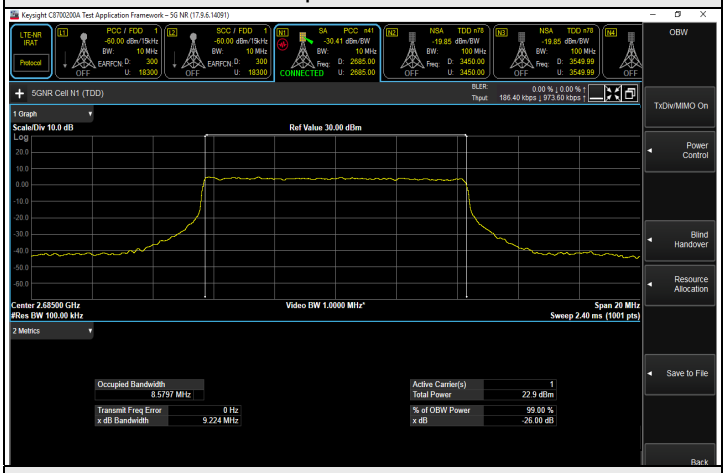
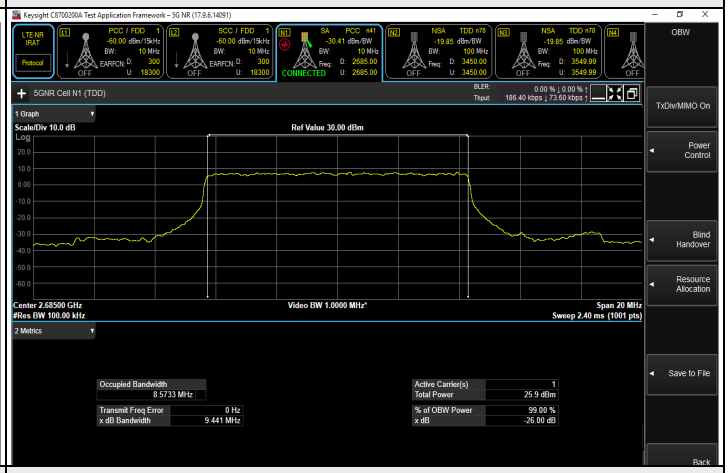
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	471000	2355	8.5780	9.267
QPSK	471000	2355	8.5749	9.258
16QAM	471000	2355	8.5730	9.349
64QAM	471000	2355	8.6008	9.459
256QAM	471000	2355	8.5715	9.159

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 471000 (2355 MHz)	64QAM CH 471000 (2355 MHz)

7.4.4 NR n41 SCS 30 kHz

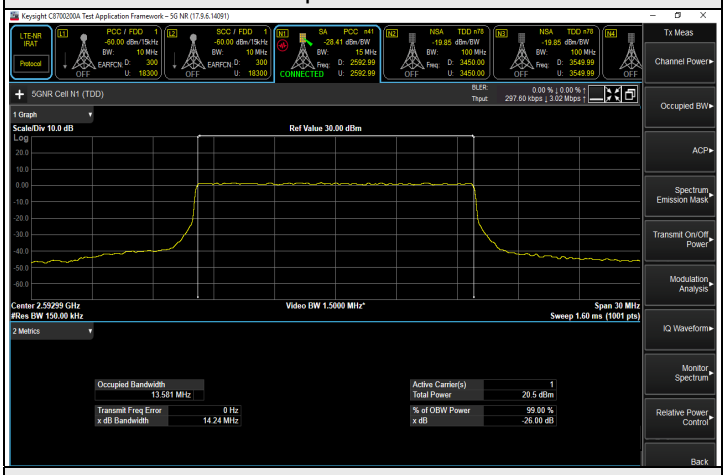
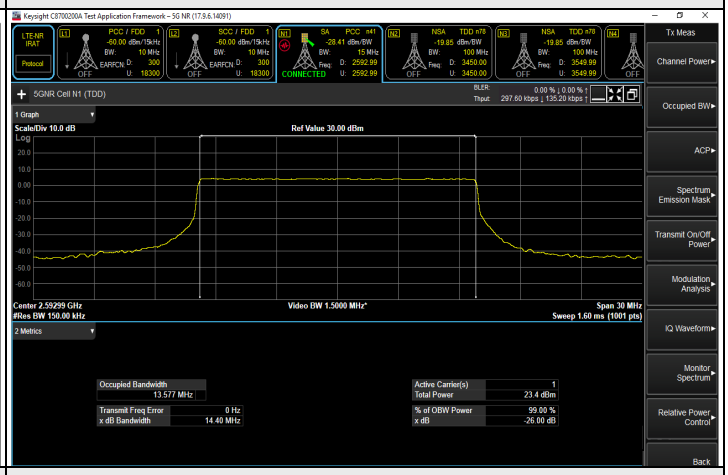
NR n41 SCS 30 kHz, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	500202	2501.01	8.5671	9.120
BPSK	518598	2592.99	8.5733	9.371
BPSK	537000	2685	8.5733	9.441
QPSK	500202	2501.01	8.5739	9.288
QPSK	518598	2592.99	8.5744	9.219
QPSK	537000	2685	8.5758	9.204
16QAM	500202	2501.01	8.5728	9.264
16QAM	518598	2592.99	8.5733	9.297
16QAM	537000	2685	8.5733	9.195
64QAM	500202	2501.01	8.5757	9.274
64QAM	518598	2592.99	8.5773	9.394
64QAM	537000	2685	8.5797	9.224
256QAM	500202	2501.01	8.5713	9.098
256QAM	518598	2592.99	8.5690	9.294
256QAM	537000	2685	8.5709	9.194

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 537000 (2685 MHz)	BPSK CH 537000 (2685 MHz)

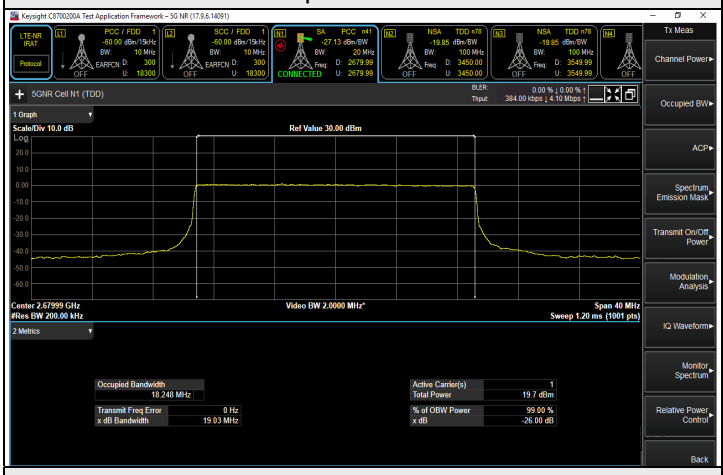
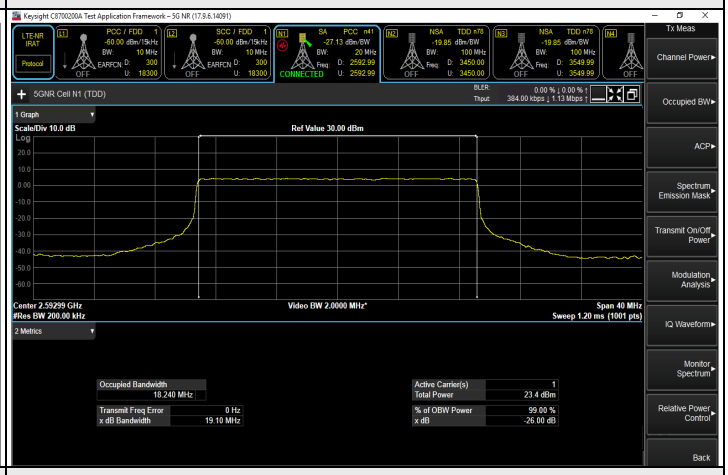
NR n41 SCS 30 kHz, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	500700	2503.5	13.456	13.61
BPSK	518598	2592.99	13.510	13.58
BPSK	536496	2682.48	13.517	13.59
QPSK	500700	2503.5	13.573	14.32
QPSK	518598	2592.99	13.577	14.40
QPSK	536496	2682.48	13.579	14.28
16QAM	500700	2503.5	13.570	14.30
16QAM	518598	2592.99	13.579	14.31
16QAM	536496	2682.48	13.577	14.38
64QAM	500700	2503.5	13.575	14.26
64QAM	518598	2592.99	13.575	14.28
64QAM	536496	2682.48	13.579	14.28
256QAM	500700	2503.5	13.571	14.25
256QAM	518598	2592.99	13.581	14.24
256QAM	536496	2682.48	13.575	14.28

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 518598 (2592.99 MHz)	QPSK CH 518598 (2592.99 MHz)

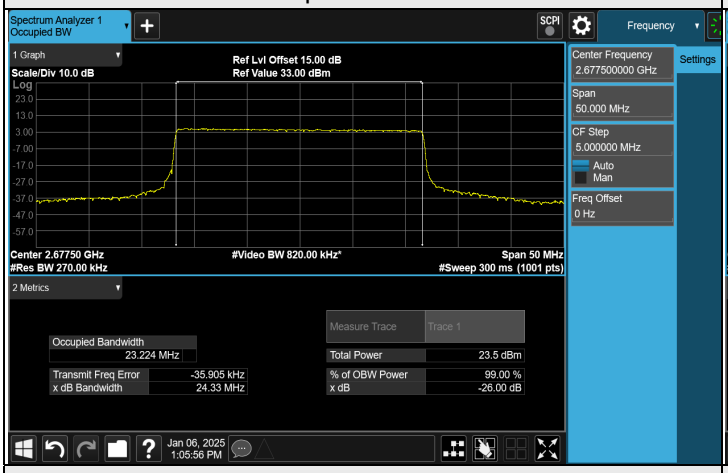
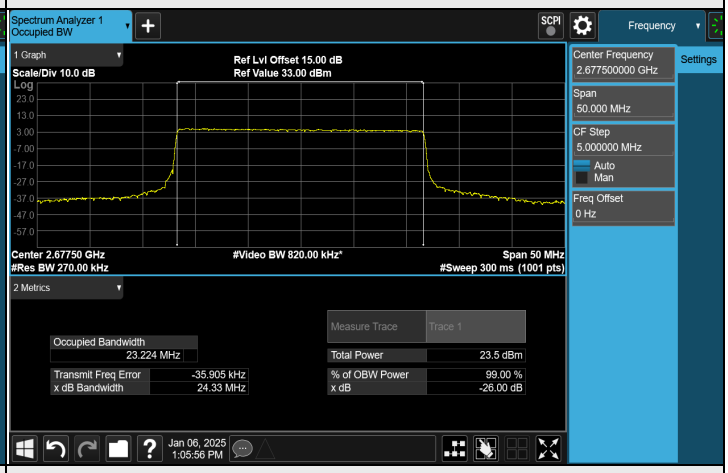
NR n41 SCS 30 kHz, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	501204	2506.02	18.021	18.61
BPSK	518598	2592.99	18.095	18.71
BPSK	535998	2679.99	18.119	18.62
QPSK	501204	2506.02	18.195	18.98
QPSK	518598	2592.99	18.200	19.07
QPSK	535998	2679.99	18.241	19.08
16QAM	501204	2506.02	18.196	19.02
16QAM	518598	2592.99	18.240	19.10
16QAM	535998	2679.99	18.247	19.06
64QAM	501204	2506.02	18.192	18.99
64QAM	518598	2592.99	18.247	19.00
64QAM	535998	2679.99	18.244	19.02
256QAM	501204	2506.02	18.188	19.01
256QAM	518598	2592.99	18.195	19.05
256QAM	535998	2679.99	18.248	19.03

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 535998 (2679.99 MHz)	16QAM CH 518598 (2592.99 MHz)

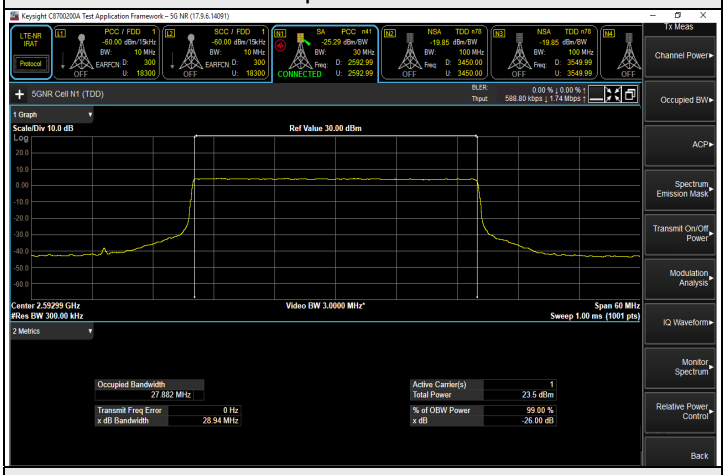
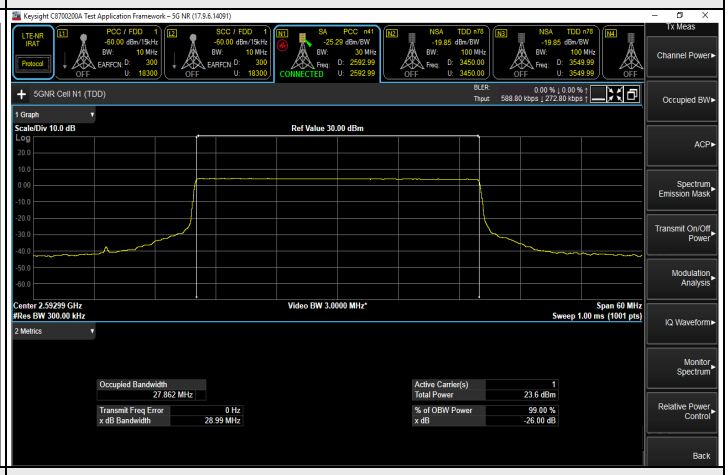
NR n41 SCS 30 kHz, Channel Bandwidth: 25 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	501702	2508.51	22.838	23.83
BPSK	518598	2592.99	22.864	23.80
BPSK	535500	2677.5	22.851	23.80
QPSK	501702	2508.51	23.197	24.32
QPSK	518598	2592.99	23.196	24.28
QPSK	535500	2677.5	23.210	24.20
16QAM	501702	2508.51	23.211	24.29
16QAM	518598	2592.99	23.216	24.29
16QAM	535500	2677.5	23.224	24.33
64QAM	501702	2508.51	23.195	24.16
64QAM	518598	2592.99	23.216	24.24
64QAM	535500	2677.5	23.220	24.28
256QAM	501702	2508.51	23.221	24.20
256QAM	518598	2592.99	23.224	24.20
256QAM	535500	2677.5	23.221	24.21

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 535500 (2677.5 MHz)	16QAM CH 535500 (2677.5 MHz)

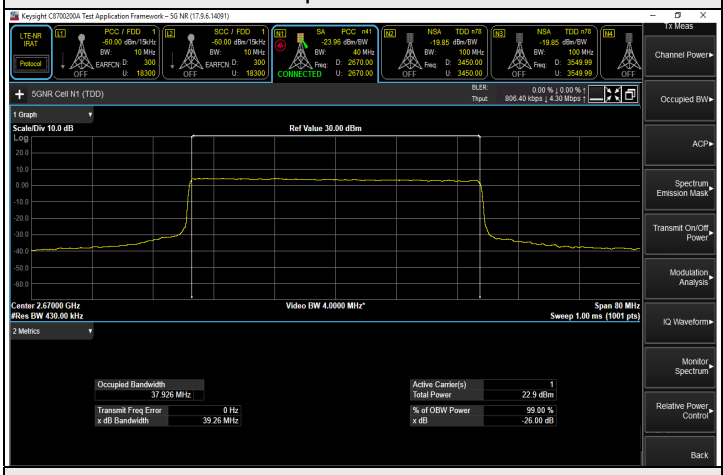
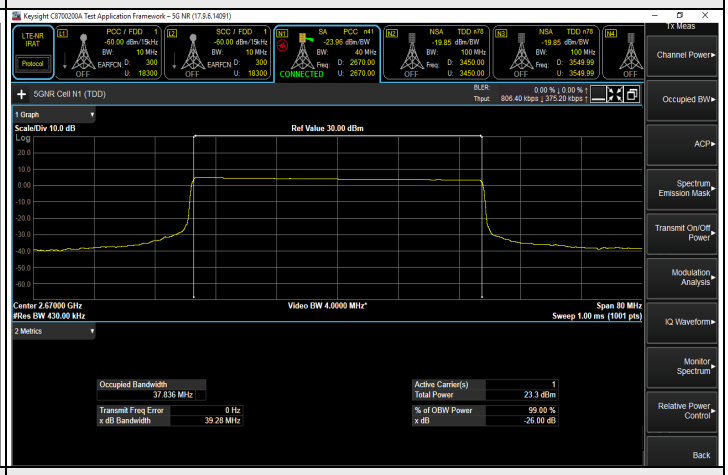
NR n41 SCS 30 kHz, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	502200	2511	27.396	27.77
BPSK	518598	2592.99	27.637	27.81
BPSK	534996	2674.98	27.643	27.85
QPSK	502200	2511	27.854	28.89
QPSK	518598	2592.99	27.862	28.99
QPSK	534996	2674.98	27.869	28.92
16QAM	502200	2511	27.855	28.96
16QAM	518598	2592.99	27.882	28.94
16QAM	534996	2674.98	27.868	28.90
64QAM	502200	2511	27.853	28.89
64QAM	518598	2592.99	27.867	28.90
64QAM	534996	2674.98	27.865	28.87
256QAM	502200	2511	27.859	28.86
256QAM	518598	2592.99	27.870	28.90
256QAM	534996	2674.98	27.869	28.85

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 518598 (2592.99 MHz)	QPSK CH 518598 (2592.99 MHz)

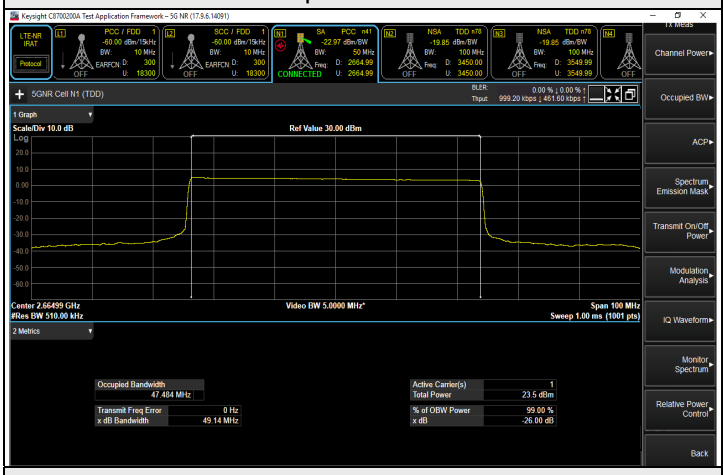
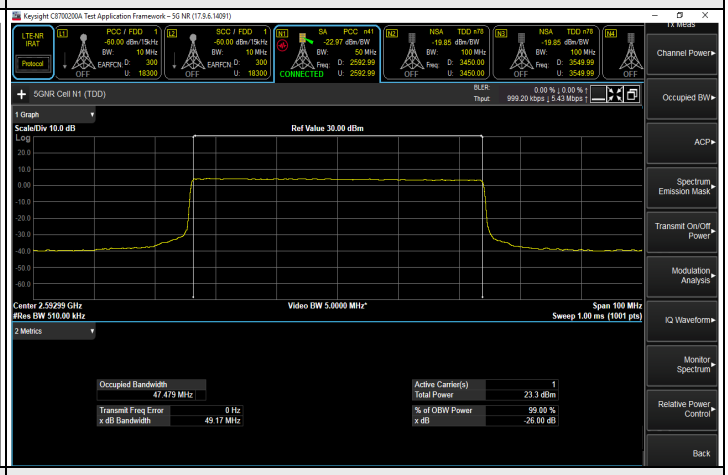
NR n41 SCS 30 kHz, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	503202	2516.01	37.293	37.04
BPSK	518598	2592.99	37.607	37.06
BPSK	534000	2670	37.612	37.08
QPSK	503202	2516.01	37.810	39.23
QPSK	518598	2592.99	37.825	39.23
QPSK	534000	2670	37.836	39.28
16QAM	503202	2516.01	37.813	39.21
16QAM	518598	2592.99	37.831	39.25
16QAM	534000	2670	37.829	39.23
64QAM	503202	2516.01	37.803	39.21
64QAM	518598	2592.99	37.834	39.23
64QAM	534000	2670	37.926	39.26
256QAM	503202	2516.01	37.819	39.18
256QAM	518598	2592.99	37.832	39.19
256QAM	534000	2670	37.836	39.23

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 534000 (2670 MHz)	QPSK CH 534000 (2670 MHz)

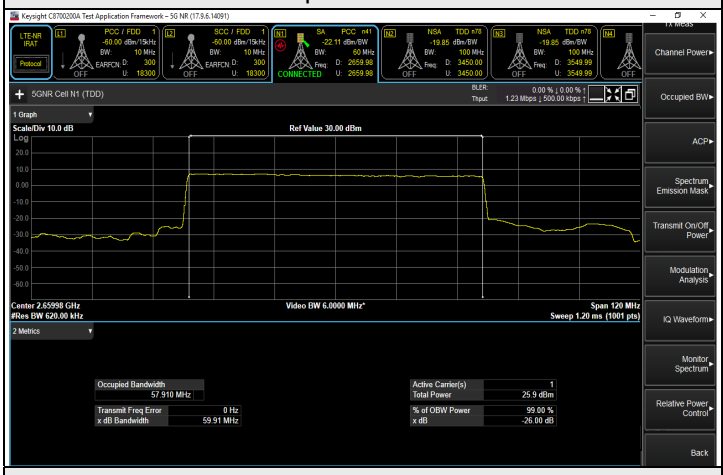
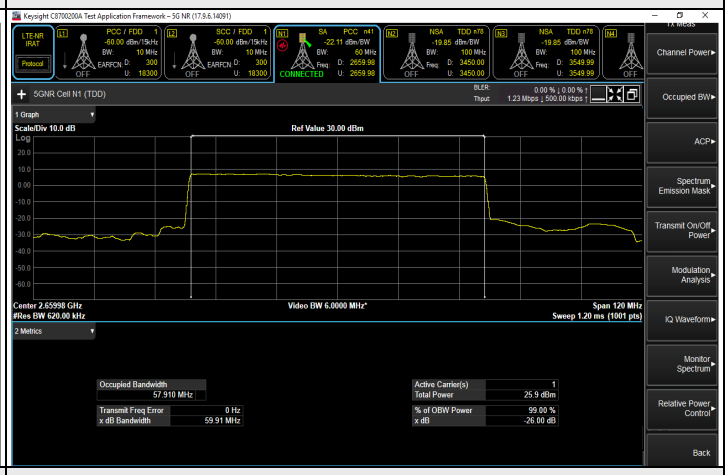
NR n41 SCS 30 kHz, Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	504204	2521.02	46.827	47.28
BPSK	518598	2592.99	47.062	47.32
BPSK	532998	2664.99	47.236	47.29
QPSK	504204	2521.02	47.437	49.12
QPSK	518598	2592.99	47.465	49.13
QPSK	532998	2664.99	47.484	49.14
16QAM	504204	2521.02	47.445	49.12
16QAM	518598	2592.99	47.462	49.15
16QAM	532998	2664.99	47.471	49.13
64QAM	504204	2521.02	47.431	49.12
64QAM	518598	2592.99	47.479	49.17
64QAM	532998	2664.99	47.478	49.14
256QAM	504204	2521.02	47.441	49.11
256QAM	518598	2592.99	47.464	49.11
256QAM	532998	2664.99	47.479	49.11

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 532998 (2664.99 MHz)	64QAM CH 518598 (2592.99 MHz)

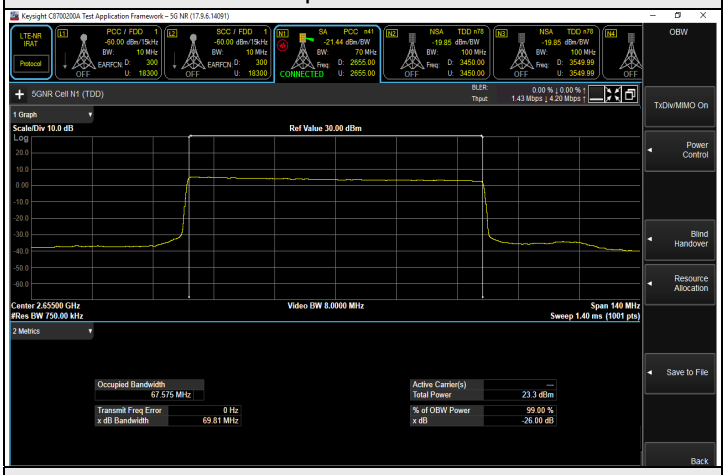
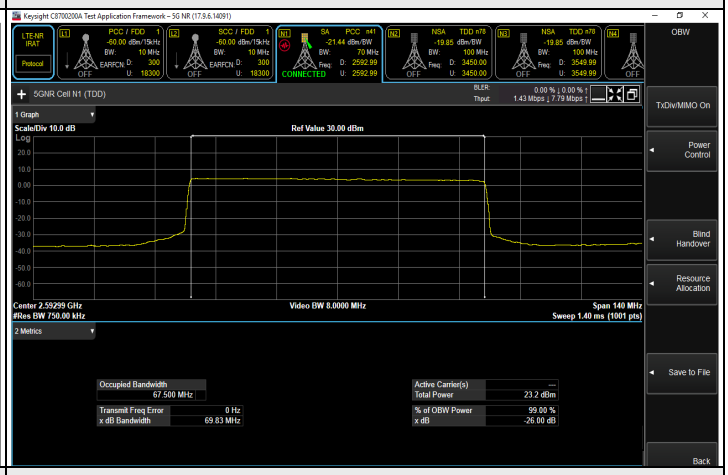
NR n41 SCS 30 kHz, Channel Bandwidth: 60 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	505200	2526	57.844	59.79
BPSK	518598	2592.99	57.885	59.76
BPSK	531996	2659.98	57.910	59.91
QPSK	505200	2526	57.708	59.81
QPSK	518598	2592.99	57.864	59.81
QPSK	531996	2659.98	57.895	59.82
16QAM	505200	2526	57.712	59.81
16QAM	518598	2592.99	57.863	59.82
16QAM	531996	2659.98	57.886	59.81
64QAM	505200	2526	57.699	59.76
64QAM	518598	2592.99	57.864	59.78
64QAM	531996	2659.98	57.882	59.81
256QAM	505200	2526	57.710	59.74
256QAM	518598	2592.99	57.868	59.79
256QAM	531996	2659.98	57.884	59.76

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
BPSK CH 531996 (2659.98 MHz)	BPSK CH 531996 (2659.98 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 70 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	506202	2531.01	66.714	66.51
BPSK	518598	2592.99	66.956	66.54
BPSK	531000	2655	67.045	66.53
QPSK	506202	2531.01	67.485	69.78
QPSK	518598	2592.99	67.519	69.78
QPSK	531000	2655	67.545	69.78
16QAM	506202	2531.01	67.493	69.79
16QAM	518598	2592.99	67.528	69.79
16QAM	531000	2655	67.575	69.81
64QAM	506202	2531.01	67.328	69.79
64QAM	518598	2592.99	67.500	69.83
64QAM	531000	2655	67.553	69.80
256QAM	506202	2531.01	67.336	69.78
256QAM	518598	2592.99	67.528	69.78
256QAM	531000	2655	67.533	69.73

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 531000 (2655 MHz)	64QAM CH 518598 (2592.99 MHz)

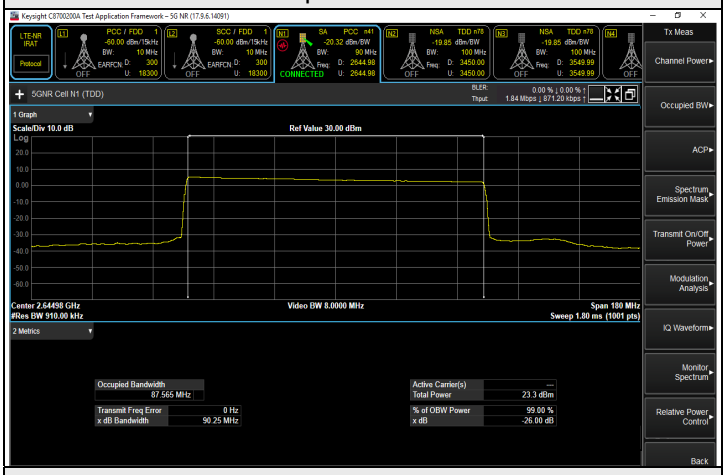
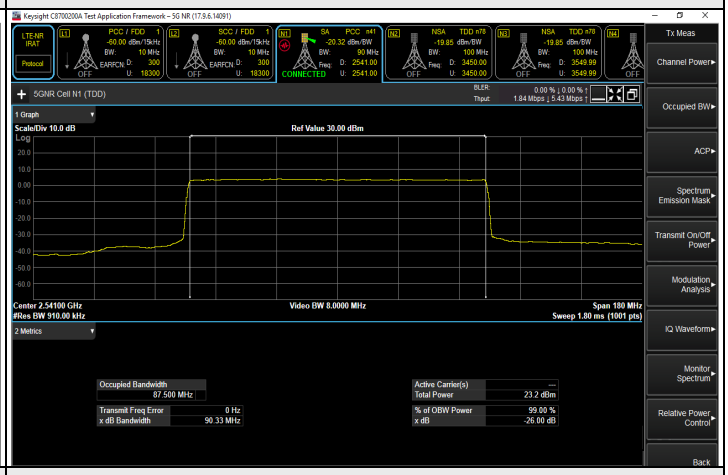
NR n41 SCS 30 kHz, Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	507204	2536.02	77.156	79.64
BPSK	518598	2592.99	77.211	79.60
BPSK	529998	2649.99	77.248	79.64
QPSK	507204	2536.02	77.462	79.99
QPSK	518598	2592.99	77.498	80.03
QPSK	529998	2649.99	77.530	80.02
16QAM	507204	2536.02	77.468	79.99
16QAM	518598	2592.99	77.505	80.01
16QAM	529998	2649.99	77.545	80.02
64QAM	507204	2536.02	77.441	79.99
64QAM	518598	2592.99	77.489	80.01
64QAM	529998	2649.99	77.525	79.99
256QAM	507204	2536.02	77.464	79.98
256QAM	518598	2592.99	77.507	80.02
256QAM	529998	2649.99	77.519	79.98

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
16QAM CH 529998 (2649.99 MHz)	QPSK CH 518598 (2592.99 MHz)

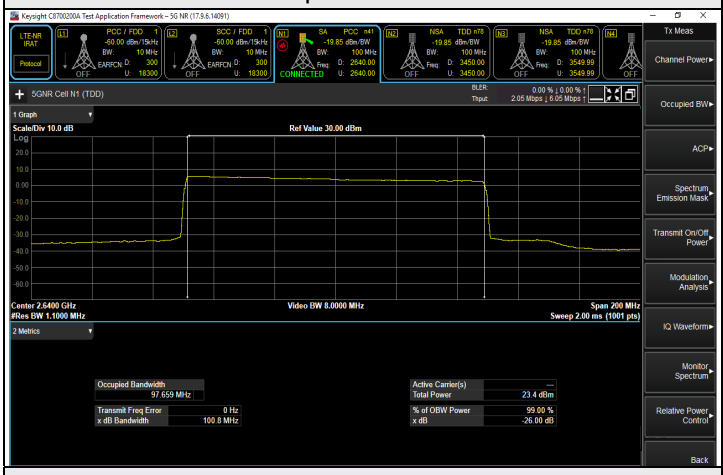
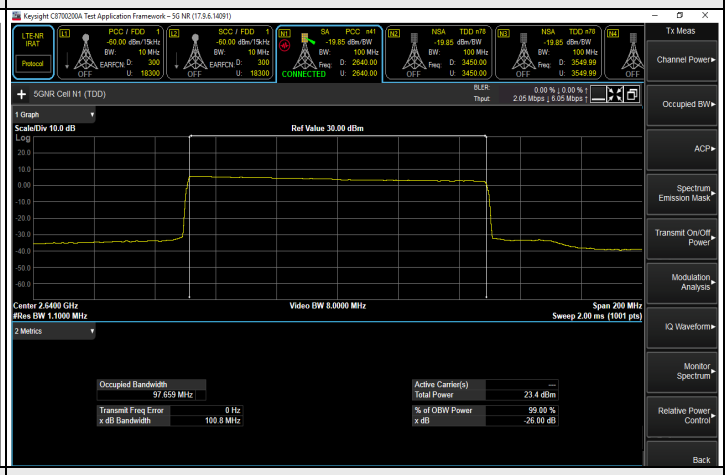
NR n41 SCS 30 kHz, Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	508200	2541	86.819	89.61
BPSK	518598	2592.99	86.919	89.56
BPSK	528996	2644.98	87.207	89.54
QPSK	508200	2541	87.496	90.33
QPSK	518598	2592.99	87.531	90.32
QPSK	528996	2644.98	87.565	90.25
16QAM	508200	2541	87.500	90.33
16QAM	518598	2592.99	87.535	90.32
16QAM	528996	2644.98	87.560	90.28
64QAM	508200	2541	87.509	90.32
64QAM	518598	2592.99	87.546	90.32
64QAM	528996	2644.98	87.546	90.25
256QAM	508200	2541	87.493	90.31
256QAM	518598	2592.99	87.524	90.25
256QAM	528996	2644.98	87.553	90.19

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 528996 (2644.98 MHz)	16QAM CH 508200 (2541 MHz)

NR n41 SCS 30 kHz, Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	509202	2546.01	96.537	99.72
BPSK	518598	2592.99	96.974	99.67
BPSK	528000	2640	96.947	99.59
QPSK	509202	2546.01	97.355	100.8
QPSK	518598	2592.99	97.604	100.8
QPSK	528000	2640	97.652	100.7
16QAM	509202	2546.01	97.351	100.8
16QAM	518598	2592.99	97.619	100.8
16QAM	528000	2640	97.659	100.8
64QAM	509202	2546.01	97.371	100.8
64QAM	518598	2592.99	97.617	100.7
64QAM	528000	2640	97.643	100.8
256QAM	509202	2546.01	97.347	100.8
256QAM	518598	2592.99	97.607	100.8
256QAM	528000	2640	97.637	100.7

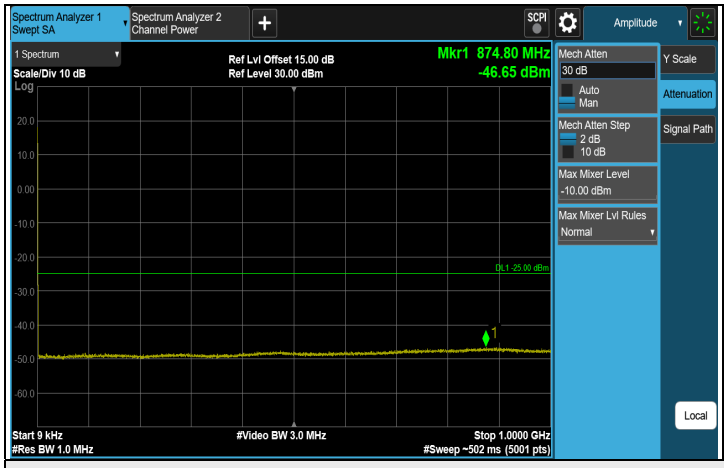
Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 528000 (2640 MHz)	16QAM CH 528000 (2640 MHz)

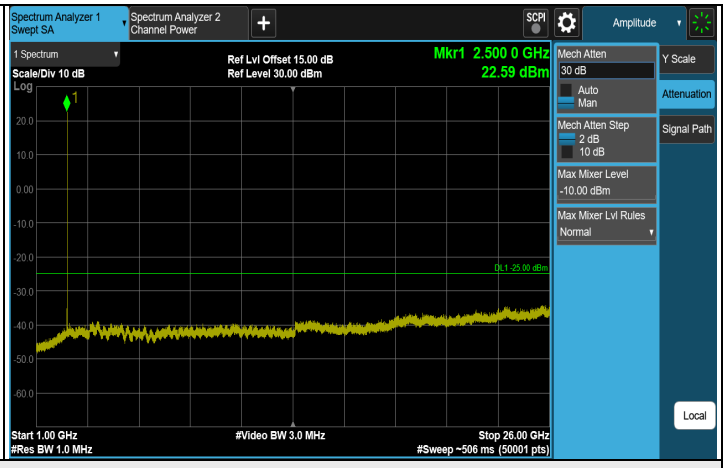
7.5 Conducted Spurious Emissions

Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 68% RH	Tested By:	Noah Chang

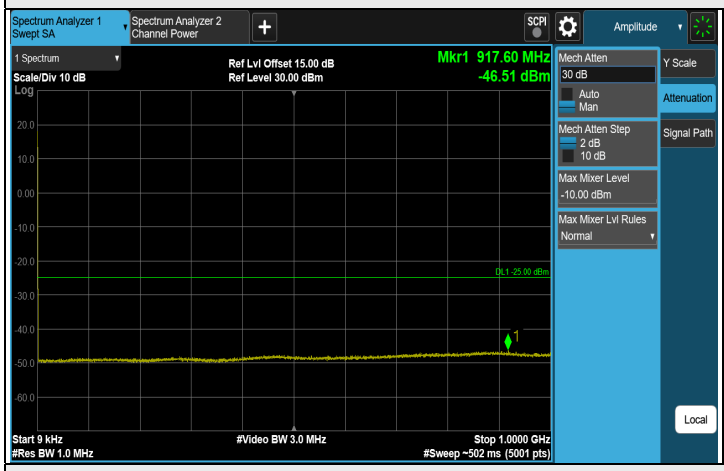
7.5.1 NR n7 SCS 15 kHz

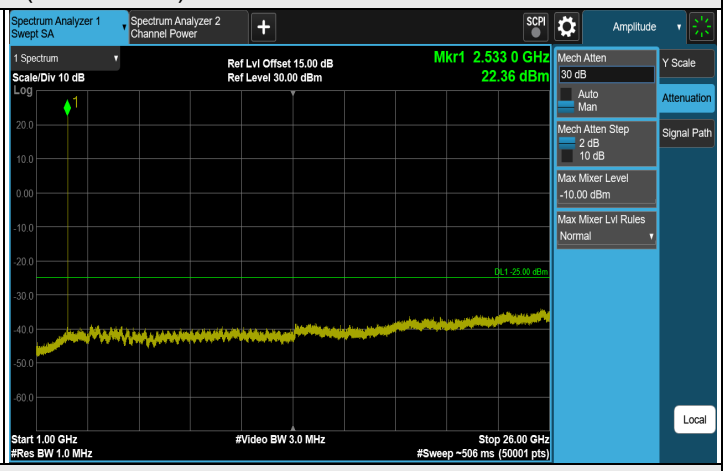
NR n7 SCS 15 kHz, Channel Bandwidth: 5 MHz



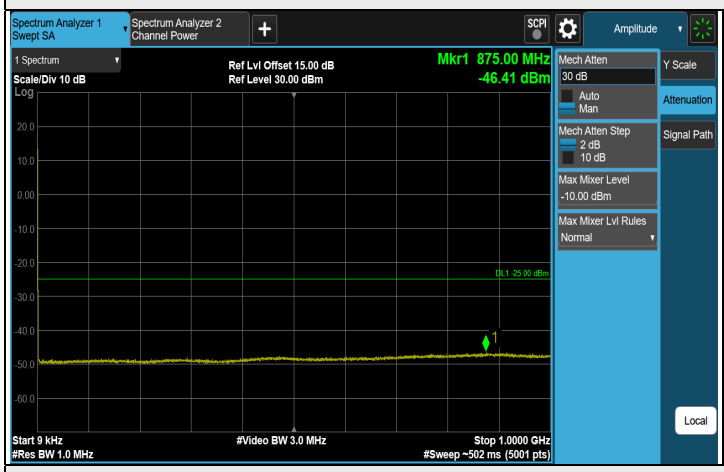


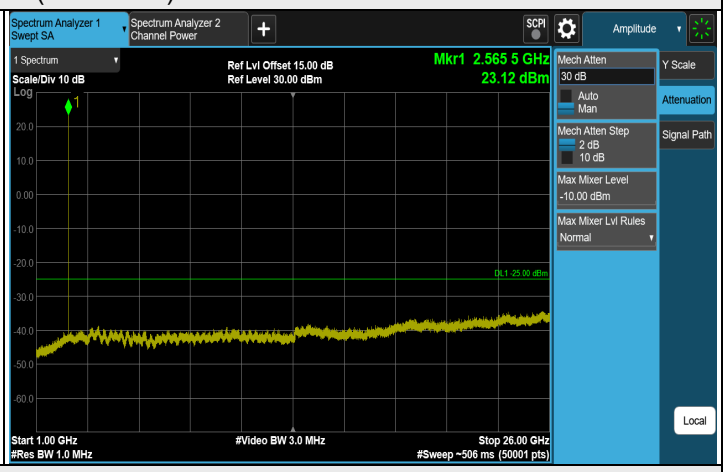
Channel 500500 (2502.5 MHz)





Channel 507000 (2535 MHz)



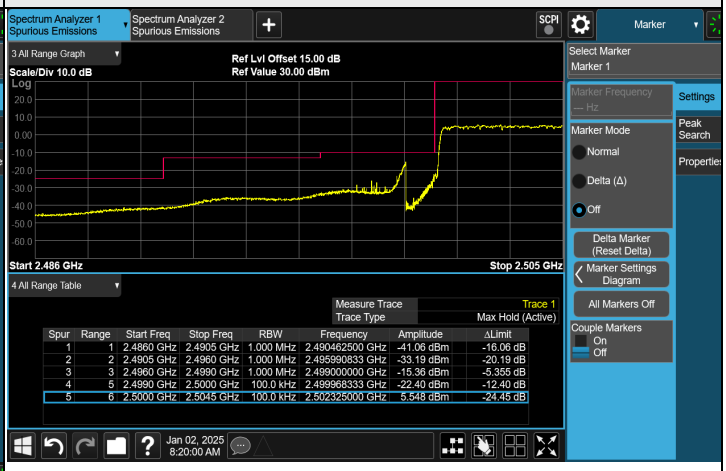


Channel 513500 (2567.5 MHz)

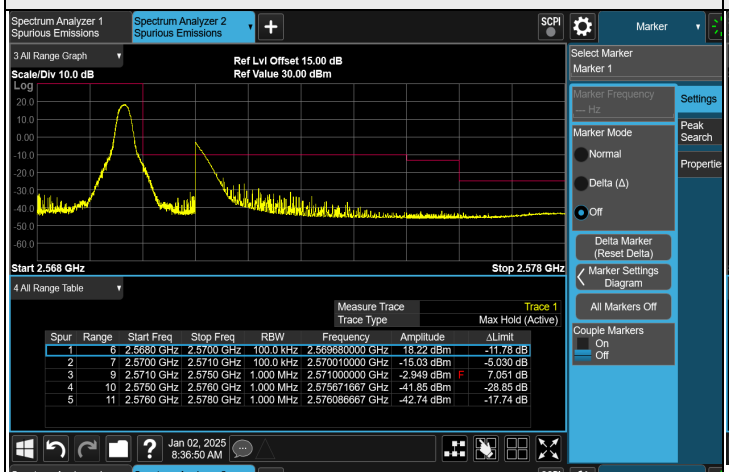
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

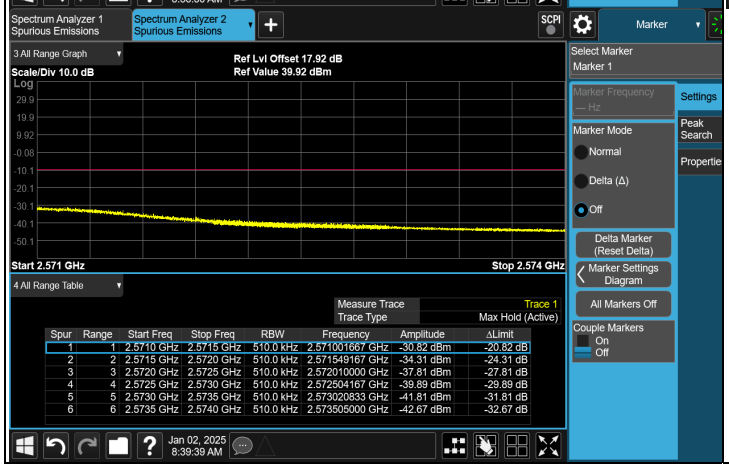
NR n7 SCS 15 kHz, Channel Bandwidth: 5 MHz

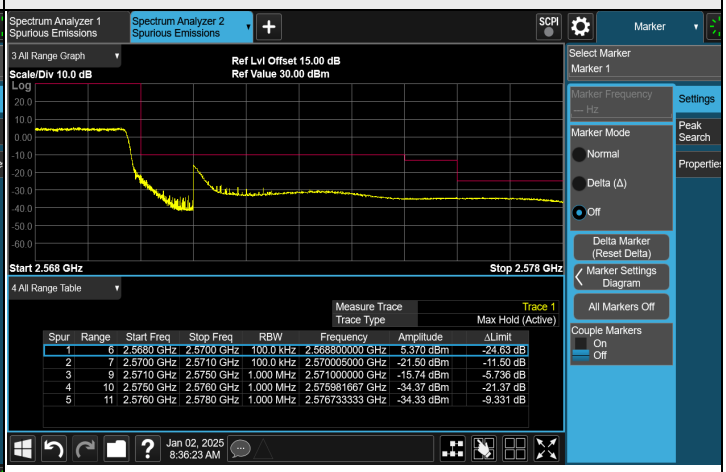
CH 500500 (2502.5 MHz)	
1 RB	FULL RB



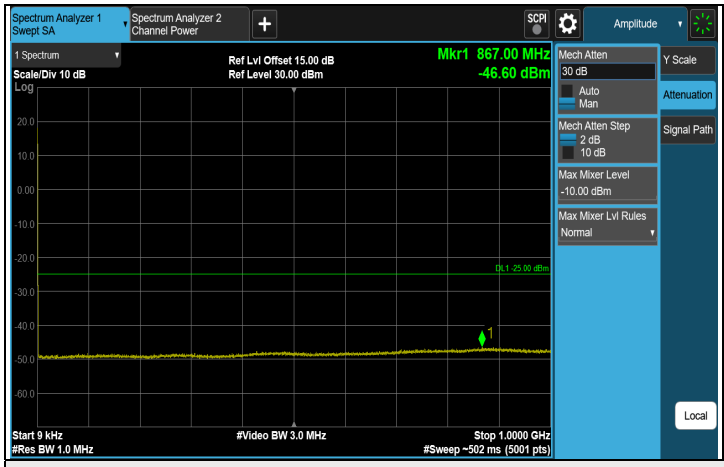
CH 513500 (2567.5 MHz)	
1 RB	FULL RB

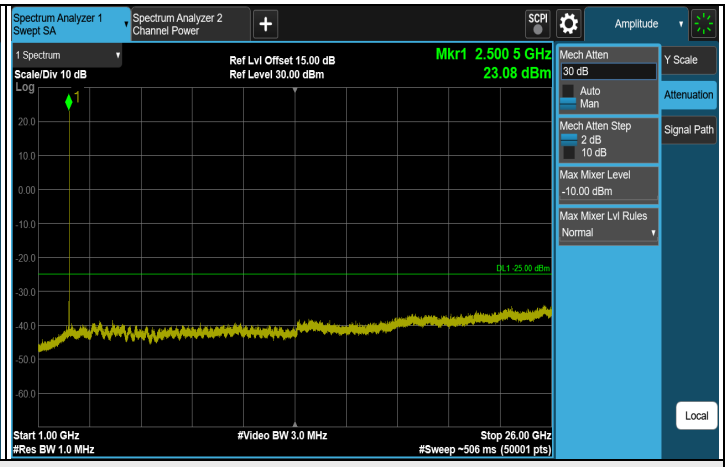




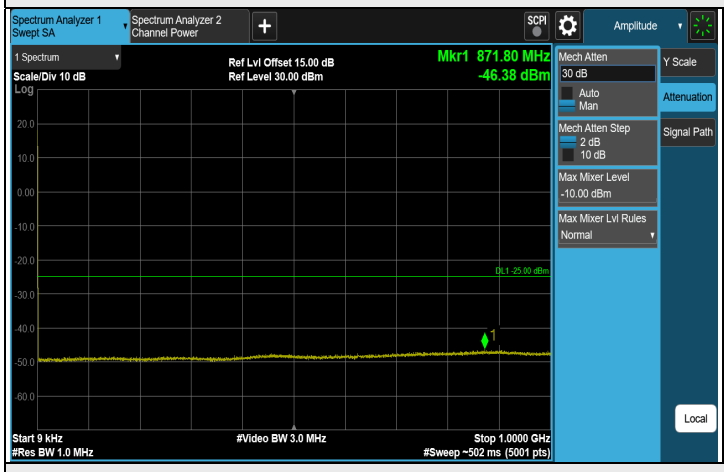


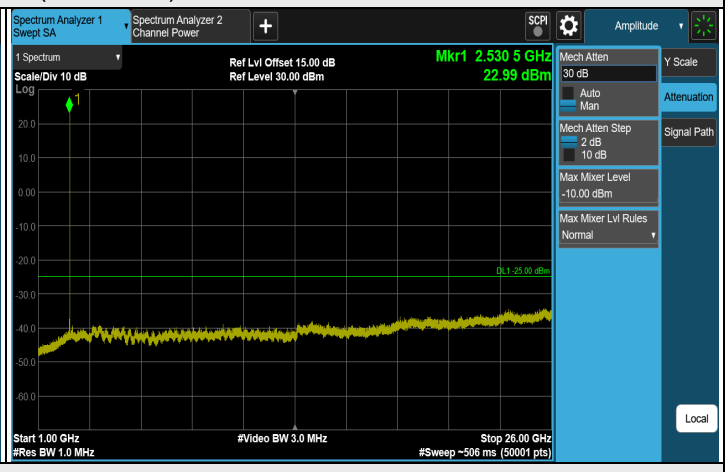
NR n7 SCS 15 kHz, Channel Bandwidth: 10 MHz



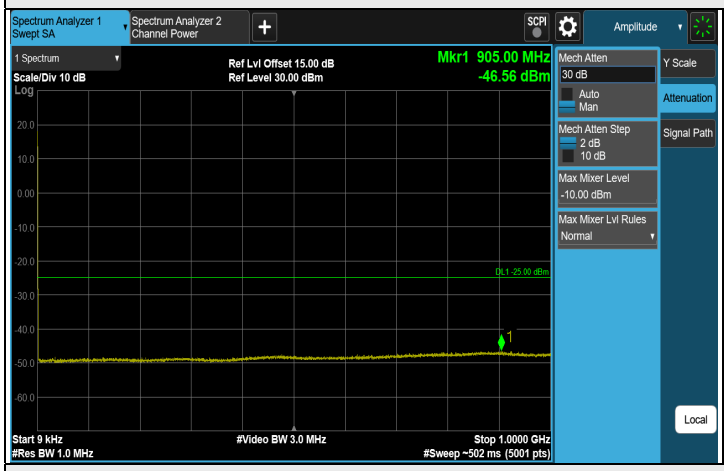


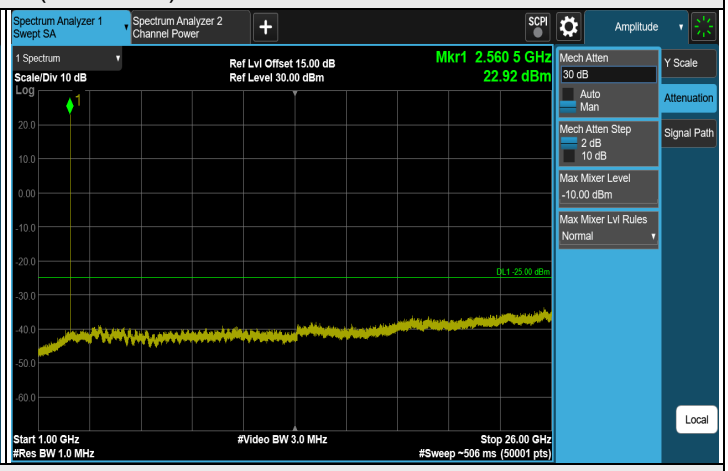
Channel 501000 (2505 MHz)





Channel 507000 (2535 MHz)





Channel 513000 (2565 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.