

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 96
47 CFR FCC Part 2

Report No.: RFBCKS-WTW-P25110456-5

FCC ID: NKR-VMC-QSA525M

Product: 2G/3G/4G/5G module

Brand: WNC

Model No.: VMC-QSA525M

Received Date: 2025/10/29

Test Date: 2025/11/1 ~ 2026/1/13

Issued Date: 2026/5/21

Applicant: WNC Corporation

Address: 20 Park Ave. II, Hsinchu Science Park, Hsinchu 308, Taiwan

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: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration /
Designation Number: 788550 / TW0003

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2026/5/21

This test report consists of 87 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	9
3.3 Test Mode Applicability and Tested Channel Detail.....	10
3.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	10
3.4 Test Program Used and Operation Descriptions	12
3.5 Connection Diagram of EUT and Peripheral Devices	12
3.6 Configuration of Peripheral Devices and Cable Connections	12
4 Test Instruments	13
4.1 Maximum EIRP	13
4.2 Modulation Characteristics	13
4.3 Peak to Average Ratio	14
4.4 Bandwidth	14
4.5 Conducted Spurious Emissions	14
4.6 Radiated Spurious Emissions below 1GHz	15
4.7 Radiated Spurious Emissions above 1GHz	16
4.8 Frequency Stability	17
5 Limits of Test Items.....	18
5.1 Maximum EIRP	18
5.2 Modulation Characteristics	18
5.3 Peak to Average Ratio	18
5.4 Bandwidth	18
5.5 Conducted Spurious Emissions	18
5.6 Radiated Spurious Emissions below 1GHz	18
5.7 Radiated Spurious Emissions above 1GHz	18
5.8 Frequency Stability	18
6 Test Arrangements.....	19
6.1 Maximum EIRP	19
6.1.1 Test Setup	19
6.1.2 Test Procedure	19
6.2 Modulation Characteristics	20
6.2.1 Test Setup	20
6.2.2 Test Procedure	20
6.3 Peak to Average Ratio	20
6.3.1 Test Setup	20
6.3.2 Test Procedure	20
6.4 Bandwidth	21
6.4.1 Test Setup	21
6.4.2 Test Procedure	21
6.5 Conducted Spurious Emissions	23
6.5.1 Test Setup	23
6.5.2 Test Procedure	23
6.6 Radiated Spurious Emissions below 1GHz	24
6.6.1 Test Setup	24
6.6.2 Test Procedure	25
6.7 Radiated Spurious Emissions above 1GHz	26
6.7.1 Test Setup	26
6.7.2 Test Procedure	26
6.8 Frequency Stability	27

6.8.1	Test Setup	27
6.8.2	Test Procedure	27
7	Test Results of Test Item	28
7.1	Maximum EIRP	28
7.1.1	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	28
7.1.2	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	34
7.2	Modulation Characteristics	40
7.2.1	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	40
7.3	Peak to Average Ratio	41
7.3.1	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	41
7.3.2	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	42
7.4	Bandwidth	44
7.4.1	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	44
7.4.2	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	47
7.5	Conducted Spurious Emissions	53
7.5.1	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	53
7.6	Radiated Spurious Emissions below 1GHz	71
7.6.1	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	71
7.7	Radiated Spurious Emissions above 1GHz	73
7.7.1	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	73
7.7.2	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	79
7.8	Frequency Stability	85
7.8.1	NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)	85
8	Pictures of Test Arrangements	86
9	Information of the Testing Laboratories	87

Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P25110456-5	Original release.	2026/5/21

1 Certificate

Product: 2G/3G/4G/5G module

Brand: WNC

Test Model: VMC-QSA525M

Sample Status: Engineering sample

Applicant: WNC Corporation

Test Date: 2025/11/1 ~ 2026/1/13

Standard: 47 CFR FCC Part 96
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 940660 D01 Part 96 CBRS Eqpt v03
KDB 662911 D01 Multiple Transmitter Output v02r01

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 96.41(b)	Maximum EIRP	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
Part 2.1046 Part 96.41(b)	Maximum Power Spectral Density	N/A	This device is End User Device.
Part 96.41(g)	Peak to Average Ratio	Pass	Meet the requirement of limit.
Part 2.1049	Bandwidth	Pass	Meet the requirement of limit.
Part 2.1051 Part 96.41(e)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -5.03 dB at 73.65 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -3.30 dB at 7380.00 MHz
Part 2.1055	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	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 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	2G/3G/4G/5G module
Brand	WNC
Test Model	VMC-QSA525M
Status of EUT	Engineering sample
Power Supply Rating	3.8Vdc
EUT Category	End User Device
Modulation Type	DFT-s-OFDM, CP-OFDM

Note:

1. EUT Overview

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

Output Power: Full Power

1TX

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
20 MHz	3560.01 ~ 3690	BPSK	0.120	20.8	17M9G7D
		QPSK	0.123	20.9	18M2G7D
		16QAM	0.113	20.53	18M2D7W
		64QAM	0.111	20.47	18M2D7W
		256QAM	0.092	19.66	18M2D7W
30 MHz	3565.02 ~ 3684.99	BPSK	0.125	20.97	26M8G7D
		QPSK	0.128	21.07	27M9G7D
		16QAM	0.118	20.71	27M9D7W
		64QAM	0.116	20.64	27M9D7W
		256QAM	0.095	19.8	27M9D7W
40 MHz	3570 ~ 3679.98	BPSK	0.127	21.04	35M7G7D
		QPSK	0.131	21.16	37M9G7D
		16QAM	0.119	20.76	37M9D7W
		64QAM	0.117	20.68	37M9D7W
		256QAM	0.096	19.83	37M9D7W

MIMO

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
20 MHz	3560.01 ~ 3690	QPSK	0.126	21.02	18M2G7D
		16QAM	0.121	20.82	18M2D7W
		64QAM	0.119	20.76	18M2D7W
		256QAM	0.062	17.92	18M2D7W
30 MHz	3565.02 ~ 3684.99	QPSK	0.131	21.16	27M9G7D
		16QAM	0.124	20.92	27M9D7W
		64QAM	0.121	20.81	27M9D7W
		256QAM	0.063	17.97	27M9D7W
40 MHz	3570 ~ 3679.98	QPSK	0.133	21.23	37M9G7D
		16QAM	0.126	21.02	37M9D7W
		64QAM	0.124	20.94	37M9D7W
		256QAM	0.064	18.08	37M9D7W

Output Power: dBm/10 MHz

1TX

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
20 MHz	3560.01 ~ 3690	BPSK	0.118	20.72	17M9G7D
		QPSK	0.121	20.81	18M2G7D
		16QAM	0.112	20.48	18M2D7W
		64QAM	0.109	20.38	18M2D7W
		256QAM	0.090	19.53	18M2D7W
30 MHz	3565.02 ~ 3684.99	BPSK	0.124	20.92	26M8G7D
		QPSK	0.125	20.97	27M9G7D
		16QAM	0.116	20.63	27M9D7W
		64QAM	0.114	20.56	27M9D7W
		256QAM	0.095	19.77	27M9D7W
40 MHz	3570 ~ 3679.98	BPSK	0.125	20.98	35M7G7D
		QPSK	0.130	21.13	37M9G7D
		16QAM	0.116	20.65	37M9D7W
		64QAM	0.114	20.57	37M9D7W
		256QAM	0.094	19.73	37M9D7W

MIMO

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
20 MHz	3560.01 ~ 3690	QPSK	0.123	20.91	18M2G7D
		16QAM	0.117	20.69	18M2D7W
		64QAM	0.116	20.63	18M2D7W
		256QAM	0.060	17.81	18M2D7W
30 MHz	3565.02 ~ 3684.99	QPSK	0.126	21.02	27M9G7D
		16QAM	0.120	20.8	27M9D7W
		64QAM	0.117	20.69	27M9D7W
		256QAM	0.061	17.86	27M9D7W
40 MHz	3570 ~ 3679.98	QPSK	0.130	21.15	37M9G7D
		16QAM	0.123	20.9	37M9D7W
		64QAM	0.120	20.78	37M9D7W
		256QAM	0.062	17.91	37M9D7W

- The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
- For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.
- 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

Type	Dipole	
Connector	SMA	
Band	Freq. Range (MHz)	Gain (dBi)
5GNR B48	3550 ~ 3700	2.7

*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. 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. X-axis/ Y-axis/ Z-axis Worst Condition: Z-Axis

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

3.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

Test Item	Tx/Rx condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	1Tx, 2Tx	637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	BPSK* / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	BPSK* / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	BPSK* / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	1Tx	641666(3624.99 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	1Tx	638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	BPSK* / QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	1Tx	637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	BPSK	Full RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	BPSK	Full RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	BPSK	Full RB
	2Tx	637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

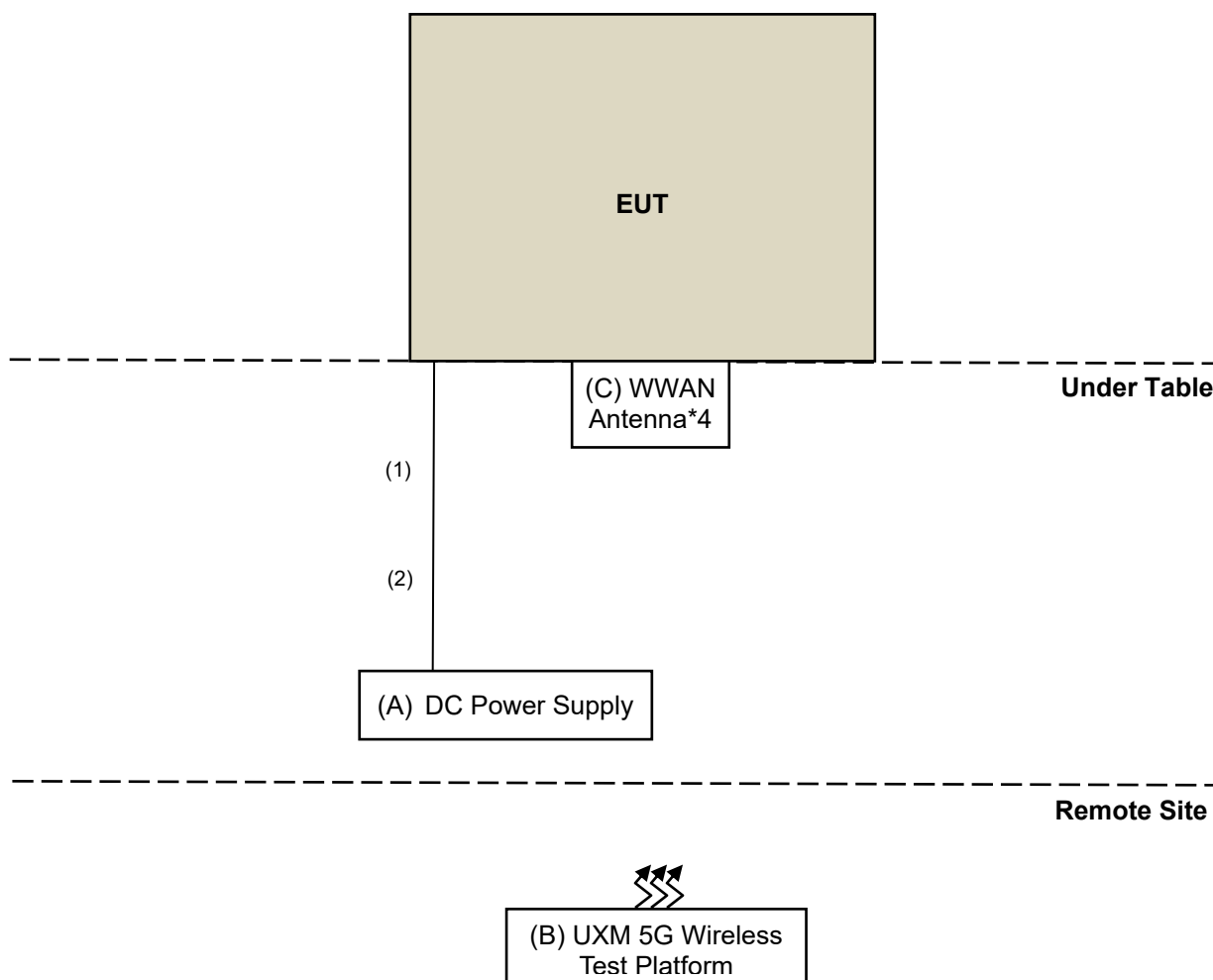
Test Item	Tx/Rx condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	2Tx	637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	QPSK	1 RB Full RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	QPSK	1 RB Full RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	2Tx	641666(3624.99 MHz)	40 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	1Tx, 2Tx	637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	QPSK	1 RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	1 RB
Frequency Stability	2Tx	638000(3570.00 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	Full RB

Note: * BPSK Modulation is not supported in the 5G NR MIMO specification.

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	DC Power Supply	OWON	ODP3122	ODP31222137036	NA	Provided by Lab
B	UXM 5G Wireless Test Platform	Keysight	E7515B	MY60102115	NA	Provided by Lab
C	WWAN Antenna	NA	NA	NA	NA	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1	No	0	Supplied by applicant
2	DC Cable	1	2.4	No	0	Provided by Lab

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 Maximum EIRP

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Power Divider MVE	MVE8546	20161123085	2025/1/6	2026/1/5
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2025/5/26	2026/5/25

Notes:

1. The test was performed in HY - Oven room.
2. Tested Date: 2025/11/1 ~ 2025/11/30

4.2 Modulation Characteristics

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2025/4/8	2026/4/7
Power Divider MVE	MVE8546	20161123085	2025/1/6	2026/1/5
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room.
2. Tested Date: 2025/11/1 ~ 2025/11/30

4.3 Peak to Average Ratio

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Power Divider MVE	MVE8546	20161123085	2025/1/6	2026/1/5
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2025/5/26	2026/5/25

Notes:

1. The test was performed in HY - Oven room.
2. Tested Date: 2025/11/1 ~ 2025/12/5

4.4 Bandwidth

Refer to section 4.3 to get the tested date and information of the instruments.

4.5 Conducted Spurious Emissions

Refer to section 4.3 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 & Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2025/9/16	2026/9/15
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Agilent	N9038A	MY51210203	2025/8/27	2026/8/26
Preamplifier Agilent	8447D	2944A10638	2025/4/27	2026/4/26
Preamplifier EMCI	EMC001340	980201	2025/9/21	2026/9/20
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2025/4/27	2026/4/26
Signal & Spectrum Analyzer R&S	FSW43	101582	2025/4/15	2026/4/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/11/26 ~ 2025/11/27

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170243	2025/11/9	2026/11/8
MXE EMI Receiver Agilent	N9038A	MY51210203	2025/8/27	2026/8/26
Preamplifier Agilent	8449B	3008A02367	2025/1/5	2026/1/4
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2025/1/5	2026/1/4
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2025/1/5	2026/1/4
Signal & Spectrum Analyzer R&S	FSW43	101582	2025/4/15	2026/4/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/11/24

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	2025/6/6	2026/6/5
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920842	2025/6/25	2026/6/24
Power Divider MVE	MVE8546	20161123085	2026/1/5	2027/1/4

Notes:

1. The test was performed in HY - Oven room.
2. Tested Date: 2026/1/13

5 Limits of Test Items

5.1 Maximum EIRP

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

Device Category	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD	47

5.2 Modulation Characteristics

Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.

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 n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed -25 dBm/MHz.

Additional protection levels: The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Note: This device can be implement MIMO function, so the limit of emission mask / conducted emissions needs to be reduced by $10 \cdot \log(\text{NumbersAnt})$ according to FCC KDB 662911 D01 guidance.

5.6 Radiated Spurious Emissions below 1GHz

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

5.7 Radiated Spurious Emissions above 1GHz

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

5.8 Frequency Stability

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

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

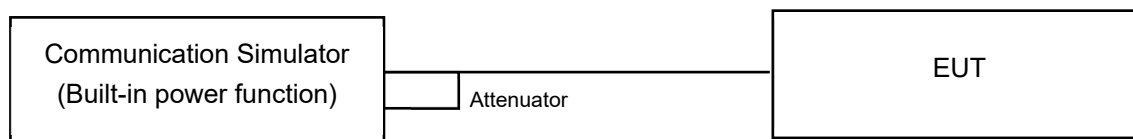
6 Test Arrangements

6.1 Maximum EIRP

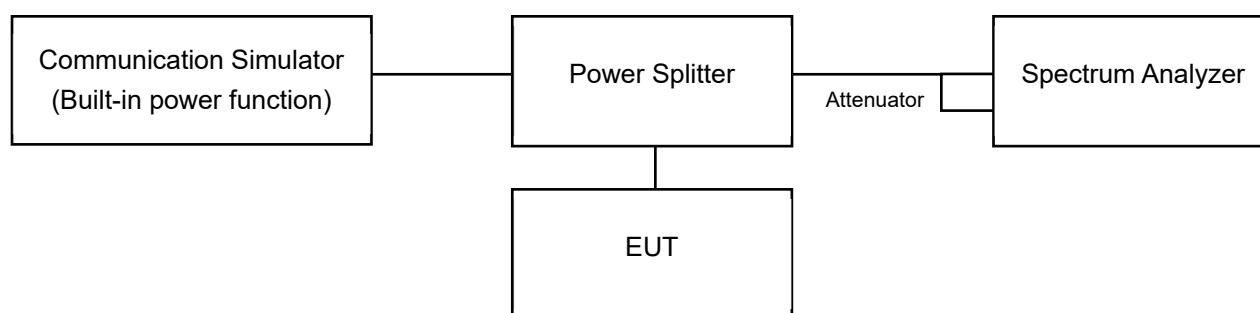
6.1.1 Test Setup

Conducted Power Measurement:

For full power measurement:



For per 10 MHz power measurement:



6.1.2 Test Procedure

Conducted Power Measurement:

For full 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.

For per 10 MHz power measurement:

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).

Measurement method refers to ANSI C63.26 section 5.2.4.4.

- a. Set span to $2 \times$ to $3 \times$ the OBW.
- b. Set RBW = 1% to 5% of the OBW.
- c. Set VBW $\geq 3 \times$ RBW.
- d. Set number of measurement points in sweep $\geq 2 \times$ 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. Use the Band/Channel Power function to determine the integrated power per 10 MHz bandwidth, according to the 47 CFR FCC Part 96 standard.
- j. If Duty cycle < 98%, Add $10 \log (1/\text{duty cycle})$ 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:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

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

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively

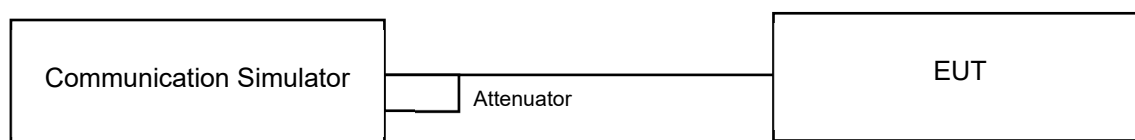
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

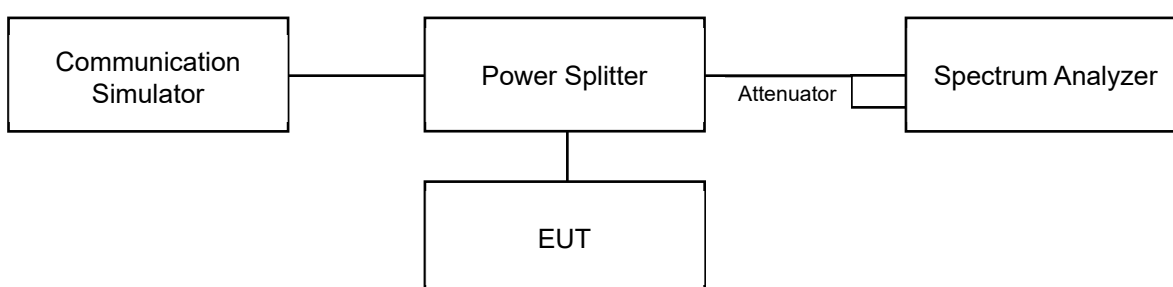


6.2.2 Test Procedure

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

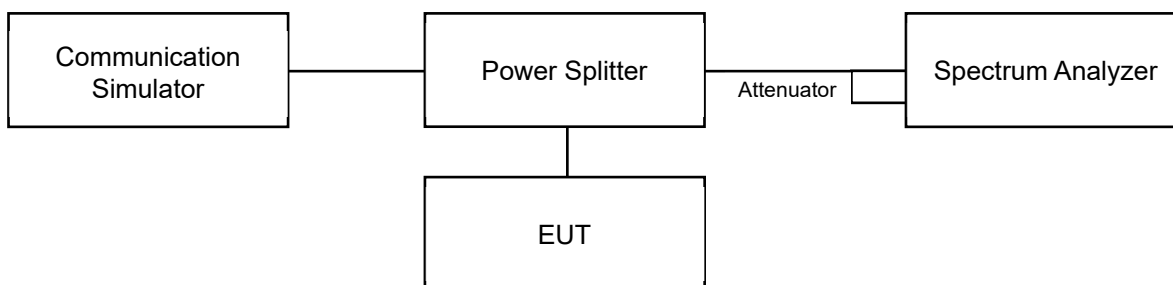


6.3.2 Test Procedure

- Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- 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.

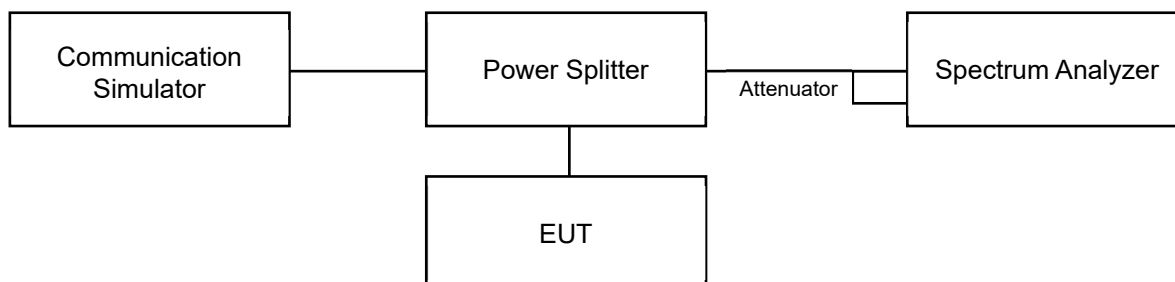
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- 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.
- 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.
- Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- 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).
- 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.
- 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 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 $\geq 3 \times$ 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. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- e. If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f. The OBW shall be reported by providing plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



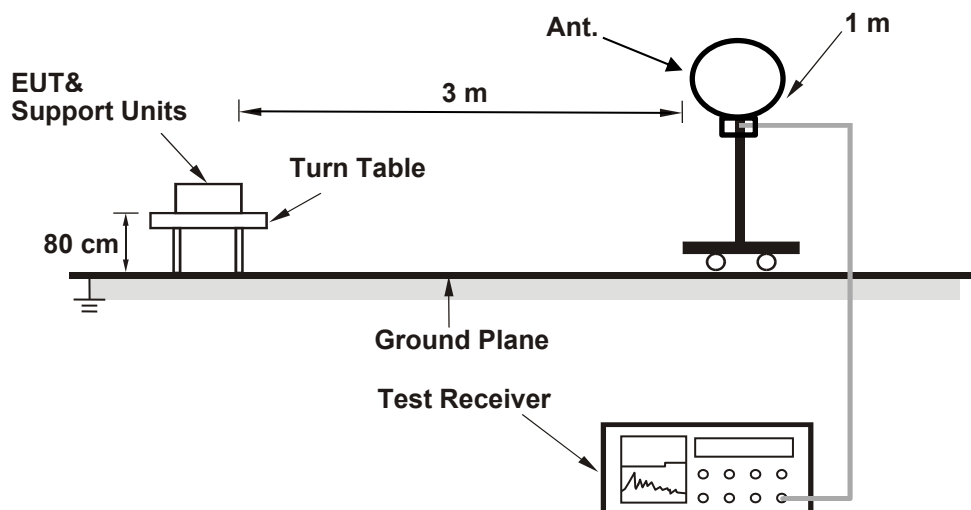
6.5.2 Test Procedure

- 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 highest fundamental frequency or to 40 GHz, whichever is lower. 10 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 $\geq$ 100 kHz, VBW $\geq$ 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] + $10 \cdot \log(1000/100)$. To compensate for this integration before comparison to the value, the adjusted reference level offset was increase by 10 dB accordingly.
- h. The device has MIMO function, so the limit of conducted spurious emissions need to be measurement add $10\log(\text{Numbers}_{\text{ANT}})$ according to FCC KDB 662911 D01 guidance. Therefore, the $10\log(\text{Numbers}_{\text{ANT}})$ value is added to the spectrum Ref. level offset during testing. For example, the band edge and conducted spurious emission plots for the MIMO (2TX) WWAN bands show that a reference level offset of 18.01 dB is used (15 dB includes attenuation and cable loss + $10 \cdot \log(2)$ to account for MIMO WWAN bands reference level = 15 + 3.01 = 18.01 dB).
- i. Record the maximum power value test plot.

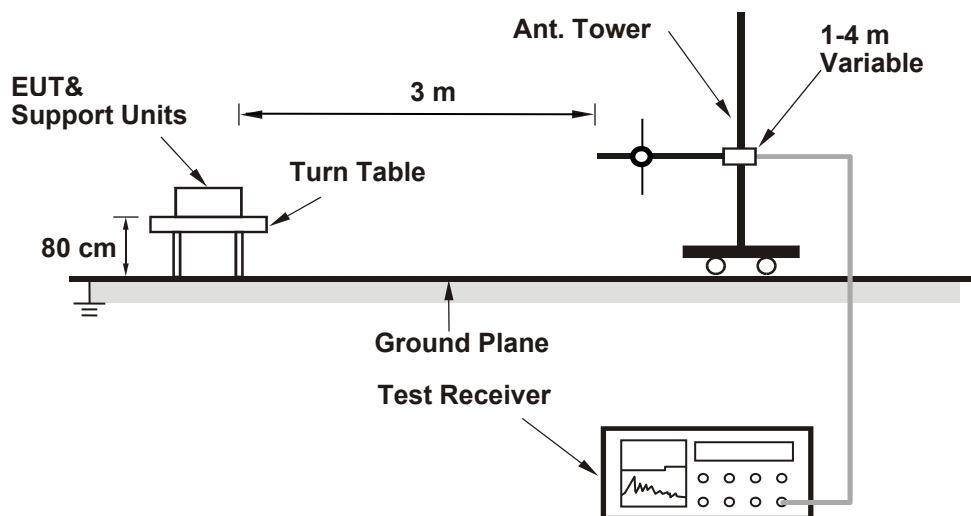
6.6 Radiated Spurious Emissions below 1GHz

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. $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- f. $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

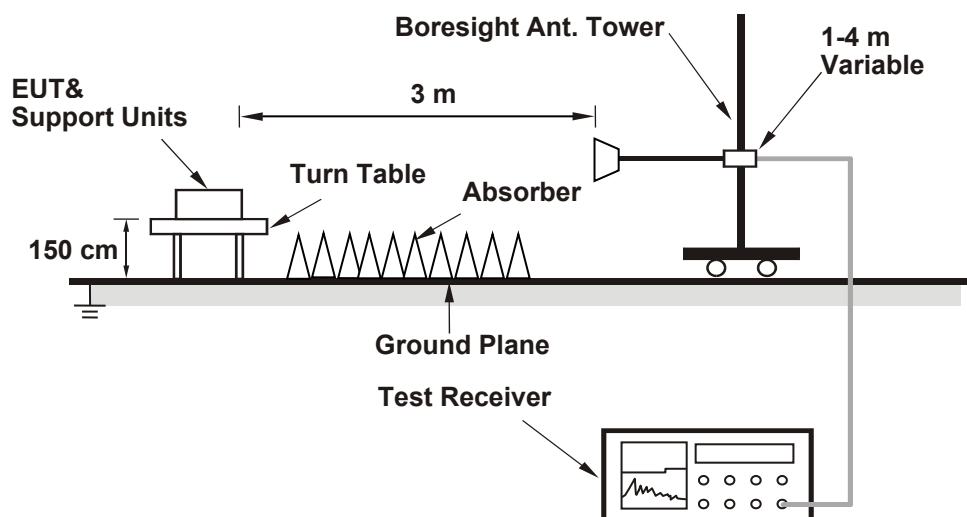
Note:

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

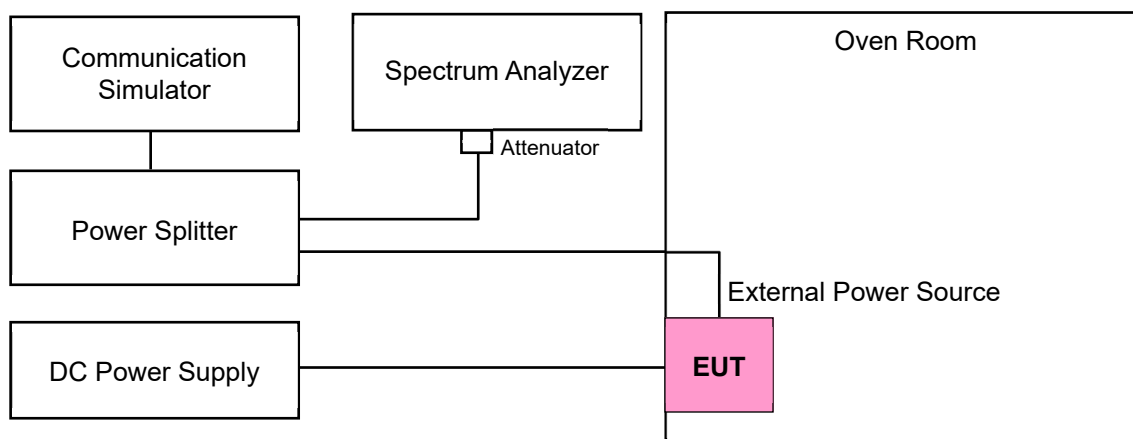
The EUT is configured to set data modulation and maximum power using WWAN technology.

- 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.
- 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.
- 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.
- Following ANSI C63.26 section 5.5 and 5.2.7
- $EIRP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15$; 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.

- 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.
- 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.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ 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 Maximum EIRP

Environmental Conditions:	23°C, 62% RH	Tested By:	Charles Hsiao
---------------------------	--------------	------------	---------------

7.1.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	1	17.93	18.10	17.92
	1	0	17.80	17.96	17.86
QPSK	1	1	18.11	18.18	18.10
	1	0	17.88	18.05	17.86
	1	26	17.97	18.12	17.94
	1	49	17.92	18.14	17.97
	1	50	17.82	18.03	17.79
	25	0	17.91	18.19	18.00
	25	13	18.08	18.20	18.05
	25	26	18.08	18.19	18.10
	50	0	18.07	18.20	18.06
	51	0	17.88	18.19	17.91
16QAM	1	0	17.65	17.83	17.68
64QAM	1	0	17.58	17.77	17.60
256QAM	1	0	16.76	16.96	16.77

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	17.8	18.1	20.5	20.8	23
QPSK	17.79	18.2	20.49	20.9	23
16QAM	17.65	17.83	20.35	20.53	23
64QAM	17.58	17.77	20.28	20.47	23
256QAM	16.76	16.96	19.46	19.66	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 30 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
BPSK	1	1	18.09	18.27	18.07
	1	0	17.98	18.17	17.91
QPSK	1	1	18.21	18.37	18.24
	1	0	17.99	18.21	17.93
	1	39	18.05	18.27	18.10
	1	76	18.12	18.31	18.07
	1	77	17.97	18.08	18.00
	36	0	18.06	18.30	18.07
	36	21	18.17	18.36	18.15
	36	42	18.20	18.36	18.08
	75	0	18.13	18.31	18.19
	78	0	18.03	18.29	18.14
16QAM	1	0	17.81	18.01	17.84
64QAM	1	0	17.73	17.94	17.82
256QAM	1	0	16.83	17.10	16.94

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	17.91	18.27	20.61	20.97	23
QPSK	17.93	18.37	20.63	21.07	23
16QAM	17.81	18.01	20.51	20.71	23
64QAM	17.73	17.94	20.43	20.64	23
256QAM	16.83	17.1	19.53	19.8	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 40 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
BPSK	1	1	18.15	18.34	18.15
	1	0	18.04	18.19	18.02
QPSK	1	1	18.28	18.46	18.30
	1	0	18.04	18.25	18.02
	1	53	18.14	18.32	18.16
	1	104	18.16	18.33	18.14
	1	105	17.97	18.18	18.03
	50	0	18.16	18.37	18.13
	50	28	18.28	18.42	18.21
	50	56	18.25	18.40	18.17
	100	0	18.22	18.40	18.23
	106	0	18.12	18.35	18.16
16QAM	1	0	17.84	18.06	17.89
64QAM	1	0	17.77	17.98	17.83
256QAM	1	0	16.93	17.13	16.97

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	18.02	18.34	20.72	21.04	23
QPSK	17.97	18.46	20.67	21.16	23
16QAM	17.84	18.06	20.54	20.76	23
64QAM	17.77	17.98	20.47	20.68	23
256QAM	16.93	17.13	19.63	19.83	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	1	17.86	18.02	17.86
	1	0	17.74	17.95	17.8
QPSK	1	1	18.08	18.11	18.01
	1	0	17.77	18	17.83
	1	26	17.86	18.04	17.92
	1	49	17.87	18.04	17.94
	1	50	17.81	17.99	17.78
	25	0	17.8	18.08	17.99
	25	13	18.05	18.11	17.97
	25	26	17.98	18.11	18.06
	50	0	15.18	15.33	15.16
	51	0	14.9	15.23	14.9
16QAM	1	0	17.63	17.78	17.61
64QAM	1	0	17.52	17.68	17.56
256QAM	1	0	16.73	16.83	16.7

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	17.74	18.02	20.44	20.72	23
QPSK	14.9	18.11	17.6	20.81	23
16QAM	17.61	17.78	20.31	20.48	23
64QAM	17.52	17.68	20.22	20.38	23
256QAM	16.7	16.83	19.4	19.53	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 30 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
BPSK	1	1	18.08	18.22	17.97
	1	0	17.92	18.1	17.8
QPSK	1	1	18.14	18.27	18.15
	1	0	17.97	18.16	17.86
	1	39	17.97	18.23	17.99
	1	76	18.05	18.25	17.96
	1	77	17.88	18.06	17.97
	36	0	16.86	17.15	16.96
	36	21	17.06	17.2	16.97
	36	42	17.03	17.18	16.96
	75	0	13.37	13.52	13.37
	78	0	13.12	13.44	13.24
16QAM	1	0	17.8	17.93	17.75
64QAM	1	0	17.64	17.86	17.77
256QAM	1	0	16.75	17.07	16.84

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	17.8	18.22	20.5	20.92	23
QPSK	13.12	18.27	15.82	20.97	23
16QAM	17.75	17.93	20.45	20.63	23
64QAM	17.64	17.86	20.34	20.56	23
256QAM	16.75	17.07	19.45	19.77	23

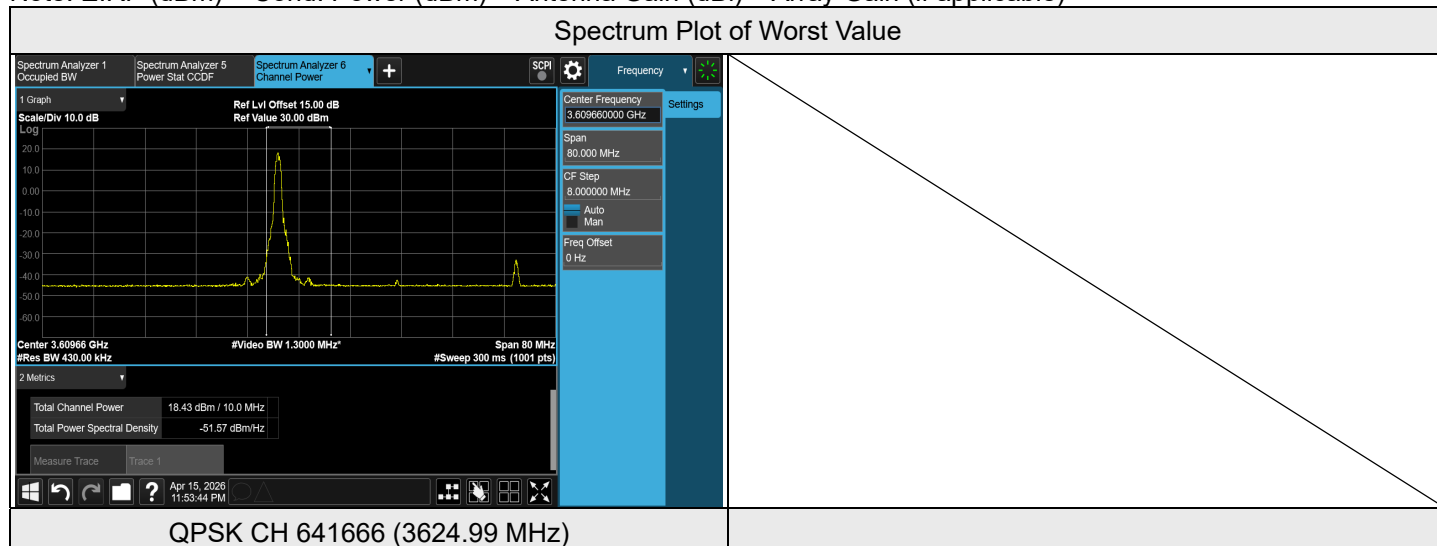
Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 40 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
BPSK	1	1	18.08	18.28	18.09
	1	0	17.93	18.09	17.97
QPSK	1	1	18.24	18.43	18.26
	1	0	17.99	18.23	18.01
	1	53	18.09	18.26	18.14
	1	104	18.11	18.24	18.13
	1	105	17.95	18.15	17.97
	50	0	15.73	15.87	15.68
	50	28	15.88	15.92	15.79
	50	56	15.76	15.92	15.77
	100	0	12.18	12.37	12.18
	106	0	12.05	12.29	12.08
16QAM	1	0	17.8	17.95	17.79
64QAM	1	0	17.66	17.87	17.76
256QAM	1	0	16.9	17.03	16.88

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	17.93	18.28	20.63	20.98	23
QPSK	12.05	18.43	14.75	21.13	23
16QAM	17.79	17.95	20.49	20.65	23
64QAM	17.66	17.87	20.36	20.57	23
256QAM	16.88	17.03	19.58	19.73	23

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



7.1.2 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 20 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637334			CH 641666			CH 646000		
			3560.01 MHz			3624.99 MHz			3690 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	15.18	15.06	18.13	15.23	15.35	18.30	15.28	14.91	18.11
	1	0	15.11	15.01	18.07	15.15	15.21	18.19	15.01	14.90	17.97
	1	26	15.21	15.02	18.13	15.43	15.18	18.32	15.26	15.10	18.19
	1	49	15.14	14.95	18.06	15.24	15.06	18.16	15.18	14.91	18.06
	1	50	15.20	14.84	18.03	15.22	14.92	18.08	15.14	14.84	18.00
	25	0	15.07	15.02	18.06	15.23	15.18	18.22	15.14	15.01	18.09
	25	13	15.08	15.05	18.08	15.27	15.09	18.19	15.08	14.97	18.04
	25	26	15.18	15.02	18.11	15.26	15.12	18.20	15.14	15.01	18.09
	51	0	15.13	15.02	18.09	15.25	15.19	18.23	15.14	14.96	18.06
16QAM	1	0	15.01	14.96	18.00	15.18	15.04	18.12	15.00	14.96	17.99
64QAM	1	0	14.90	14.85	17.89	15.08	15.02	18.06	14.89	14.79	17.85
256QAM	1	0	12.01	12.05	15.04	12.15	12.26	15.22	11.94	12.06	15.01

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	17.97	18.32	20.67	21.02	23
16QAM	17.99	18.12	20.69	20.82	23
64QAM	17.85	18.06	20.55	20.76	23
256QAM	15.01	15.22	17.71	17.92	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 30 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637668			CH 641666			CH 645666		
			3565.02 MHz			3624.99 MHz			3684.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	15.26	15.07	18.18	15.45	15.45	18.46	15.26	14.97	18.13
	1	0	15.16	15.03	18.11	15.33	15.26	18.31	15.15	15.04	18.11
	1	39	15.33	15.16	18.26	15.50	15.36	18.44	15.30	15.11	18.22
	1	76	15.24	15.04	18.15	15.35	15.21	18.29	15.20	15.07	18.15
	1	77	15.22	14.89	18.07	15.35	15.02	18.20	15.21	14.90	18.07
	36	0	15.15	15.13	18.15	15.34	15.26	18.31	15.18	15.08	18.14
	36	21	15.24	15.10	18.18	15.32	15.19	18.27	15.18	14.99	18.10
	36	42	15.22	15.08	18.16	15.44	15.20	18.33	15.27	15.05	18.17
	78	0	15.25	15.08	18.18	15.37	15.22	18.31	15.25	15.05	18.16
16QAM	1	0	15.10	15.04	18.08	15.29	15.12	18.22	15.06	15.05	18.07
64QAM	1	0	15.00	15.03	18.03	15.13	15.07	18.11	15.04	14.96	18.01
256QAM	1	0	12.14	12.23	15.20	12.22	12.30	15.27	12.06	12.14	15.11

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.07	18.46	20.77	21.16	23
16QAM	18.07	18.22	20.77	20.92	23
64QAM	18.01	18.11	20.71	20.81	23
256QAM	15.11	15.27	17.81	17.97	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 40 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 638000			CH 641666			CH 645332		
			3570 MHz			3624.99 MHz			3679.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	15.54	15.11	18.34	15.54	15.50	18.53	15.38	15.12	18.26
	1	0	15.33	15.22	18.29	15.42	15.32	18.38	15.23	15.12	18.19
	1	53	15.42	15.23	18.34	15.59	15.41	18.51	15.40	15.25	18.34
	1	104	15.38	15.15	18.28	15.47	15.27	18.38	15.32	15.12	18.23
	1	105	15.36	15.04	18.21	15.46	15.14	18.31	15.30	15.00	18.16
	50	0	15.26	15.26	18.27	15.42	15.39	18.42	15.31	15.18	18.26
	50	28	15.30	15.20	18.26	15.44	15.30	18.38	15.26	15.12	18.20
	50	56	15.36	15.23	18.31	15.48	15.32	18.41	15.35	15.16	18.27
	106	0	15.32	15.20	18.27	15.45	15.36	18.42	15.31	15.15	18.24
16QAM	1	0	15.19	15.16	18.19	15.35	15.27	18.32	15.16	15.14	18.16
64QAM	1	0	15.09	15.09	18.10	15.27	15.19	18.24	15.13	15.03	18.09
256QAM	1	0	12.2	12.29	15.26	12.33	12.41	15.38	12.12	12.21	15.18

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.16	18.53	20.86	21.23	23
16QAM	18.16	18.32	20.86	21.02	23
64QAM	18.09	18.24	20.79	20.94	23
256QAM	15.18	15.38	17.88	18.08	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 20 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637334			CH 641666			CH 646000		
			3560.01 MHz			3624.99 MHz			3690 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	15.12	14.91	18.03	15.16	15.24	18.21	15.09	14.74	17.93
	1	0	14.92	14.89	17.92	14.99	15.06	18.04	14.93	14.72	17.84
	1	26	15.11	14.89	18.01	15.27	14.99	18.14	15.12	14.98	18.06
	1	49	14.96	14.78	17.88	15.14	14.87	18.02	15.1	14.81	17.97
	1	50	15.15	14.66	17.92	15.1	14.86	17.99	15.03	14.76	17.91
	25	0	14.93	14.93	17.94	15.12	15.06	18.10	14.99	14.94	17.98
	25	13	14.94	14.89	17.93	15.21	14.93	18.08	14.96	14.83	17.91
	25	26	15.08	14.95	18.03	15.12	15.04	18.09	15.08	14.84	17.97
	50	0	12.11	12.07	15.10	12.19	12.13	15.17	12.06	11.99	15.04
16QAM	1	0	14.88	14.79	17.85	15.07	14.89	17.99	14.85	14.84	17.86
64QAM	1	0	14.79	14.8	17.81	14.91	14.93	17.93	14.84	14.6	17.73
256QAM	1	0	11.87	11.88	14.89	12.07	12.13	15.11	11.85	11.97	14.92

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	15.04	18.21	17.74	20.91	23
16QAM	17.85	17.99	20.55	20.69	23
64QAM	17.73	17.93	20.43	20.63	23
256QAM	14.89	15.11	17.59	17.81	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 30 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637668			CH 641666			CH 645666		
			3565.02 MHz			3624.99 MHz			3684.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	15.09	14.89	18.00	15.27	15.34	18.32	15.17	14.87	18.03
	1	0	15.06	14.96	18.02	15.24	15.07	18.17	15.09	14.99	18.05
	1	39	15.14	15.09	18.13	15.38	15.21	18.31	15.24	14.93	18.10
	1	76	15.07	14.92	18.01	15.2	15.11	18.17	15.09	15	18.06
	1	77	15.07	14.7	17.90	15.19	14.92	18.07	15.1	14.73	17.93
	36	0	13.98	14	17.00	14.13	14.08	17.12	14.08	13.91	17.01
	36	21	14.03	13.89	16.97	14.16	13.96	17.07	14.01	13.8	16.92
	36	42	14.06	13.91	17.00	14.3	14.1	17.21	14.14	13.92	17.04
	75	0	10.29	10.16	13.24	10.46	10.28	13.38	10.4	10.19	13.31
16QAM	1	0	14.92	14.99	17.97	15.17	15	18.10	14.95	14.99	17.98
64QAM	1	0	14.82	14.95	17.90	14.98	14.97	17.99	14.91	14.86	17.90
256QAM	1	0	11.95	12.15	15.06	12.08	12.21	15.16	12.01	11.99	15.01

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	13.24	18.32	15.94	21.02	23
16QAM	17.97	18.1	20.67	20.8	23
64QAM	17.9	17.99	20.6	20.69	23
256QAM	15.01	15.16	17.71	17.86	23

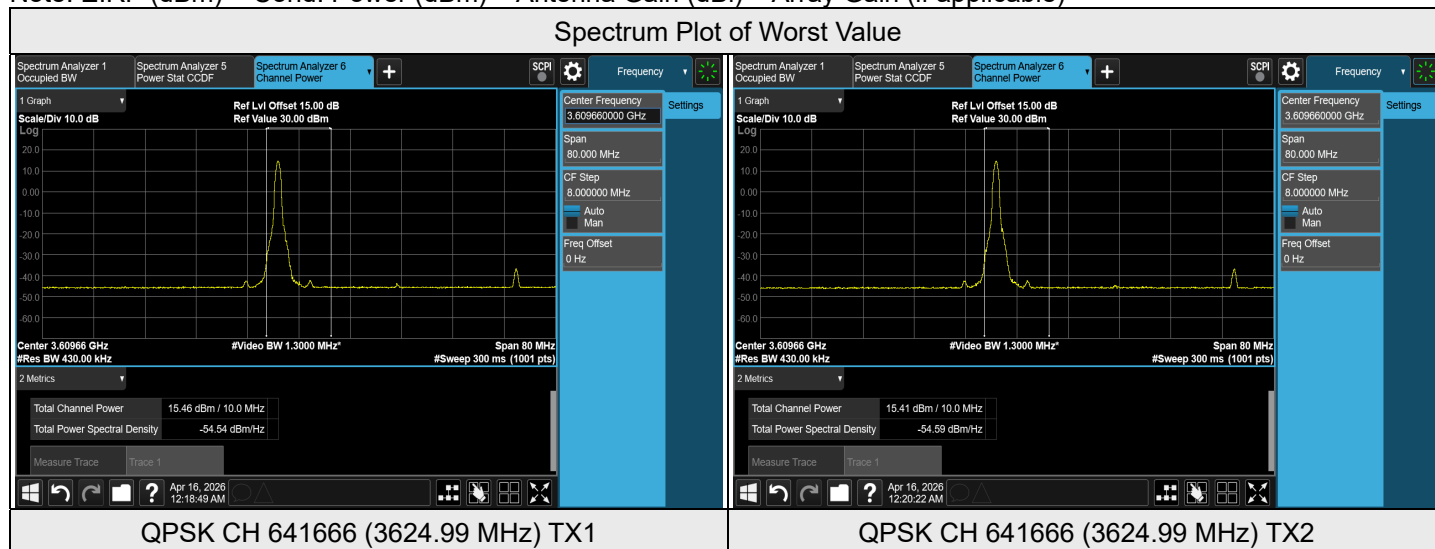
Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 40 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 638000			CH 641666			CH 645332		
			3570 MHz			3624.99 MHz			3679.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	15.49	15.03	18.28	15.46	15.41	18.45	15.32	14.96	18.15
	1	0	15.24	15.09	18.18	15.23	15.18	18.22	15.06	14.95	18.02
	1	53	15.29	15.05	18.18	15.43	15.33	18.39	15.33	15.13	18.24
	1	104	15.28	15	18.15	15.4	15.13	18.28	15.21	14.93	18.08
	1	105	15.18	14.88	18.04	15.36	15.09	18.24	15.16	14.95	18.07
	50	0	12.79	12.7	15.76	12.85	12.83	15.85	12.77	12.66	15.73
	50	28	12.83	12.73	15.79	12.88	12.82	15.86	12.75	12.66	15.72
	50	56	12.86	12.75	15.82	12.97	12.86	15.93	12.88	12.57	15.74
	100	0	9.35	9.25	12.31	9.37	9.36	12.38	9.33	9.16	12.26
16QAM	1	0	15.14	15.06	18.11	15.26	15.11	18.20	15.05	14.97	18.02
64QAM	1	0	15.01	15.04	18.04	15.14	15	18.08	15.04	14.94	18.00
256QAM	1	0	12.04	12.11	15.09	12.18	12.22	15.21	11.96	12.15	15.07

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	12.26	18.45	14.96	21.15	23
16QAM	18.02	18.2	20.72	20.9	23
64QAM	18	18.08	20.7	20.78	23
256QAM	15.07	15.21	17.77	17.91	23

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

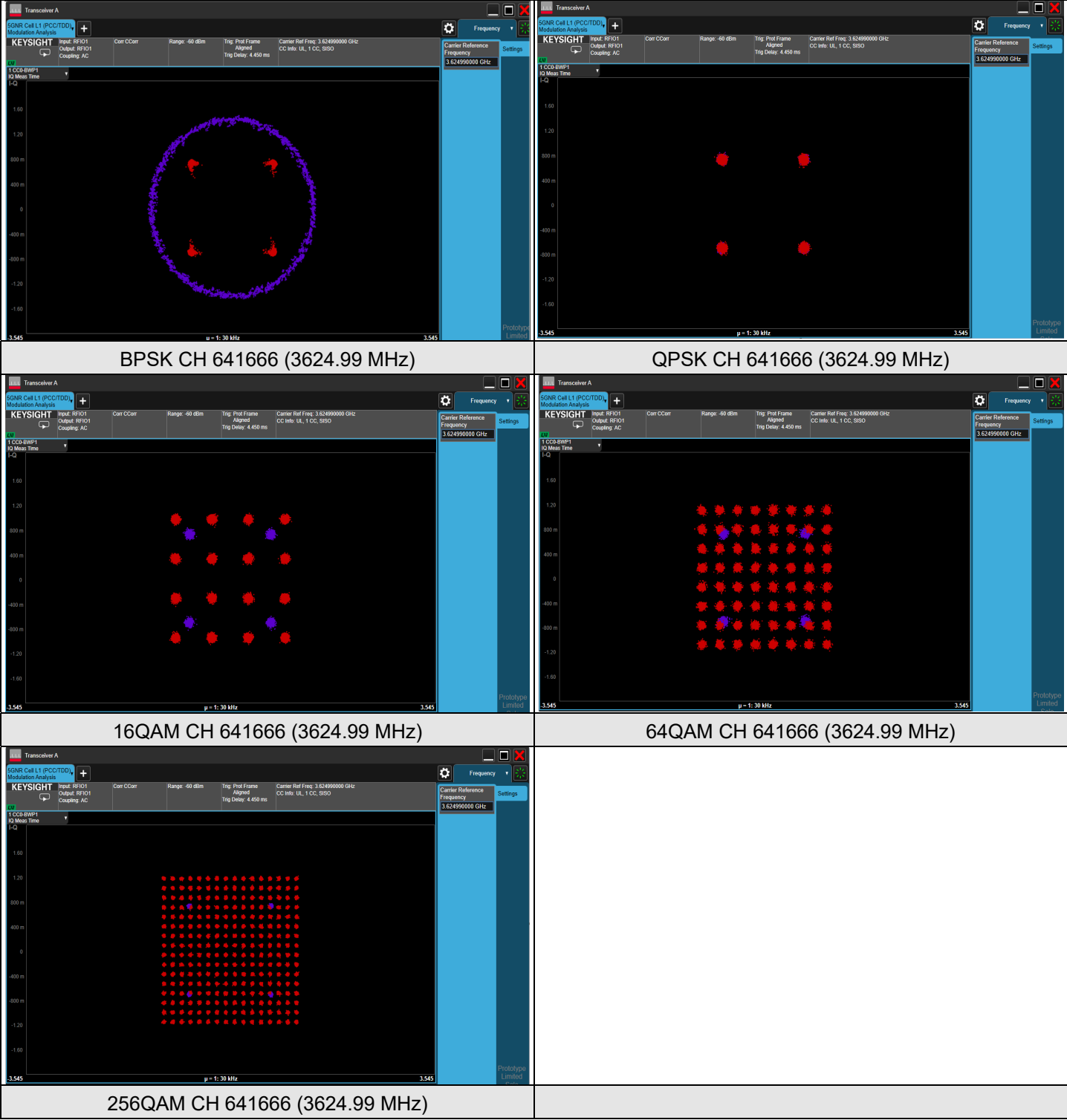


7.2 Modulation Characteristics

Environmental Conditions:	22°C, 73% RH	Tested By:	Willy Cheng
---------------------------	--------------	------------	-------------

7.2.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 40 MHz



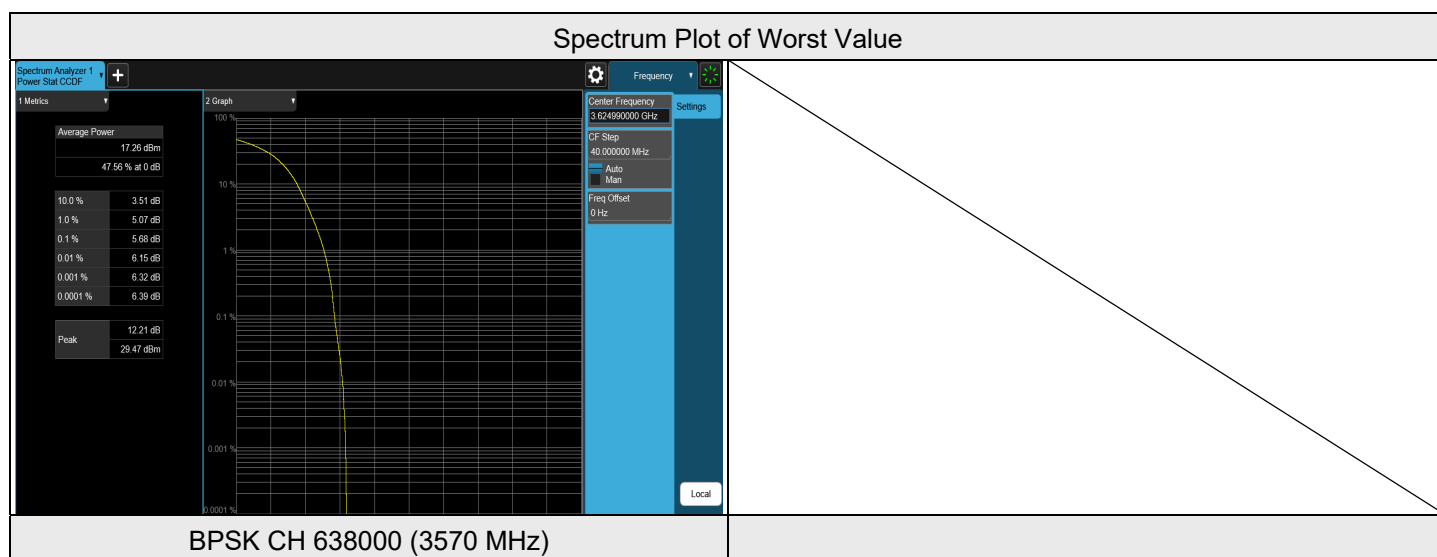
7.3 Peak to Average Ratio

Environmental Conditions:	25°C, 66% RH	Tested By:	James Yang
---------------------------	--------------	------------	------------

7.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 40 MHz

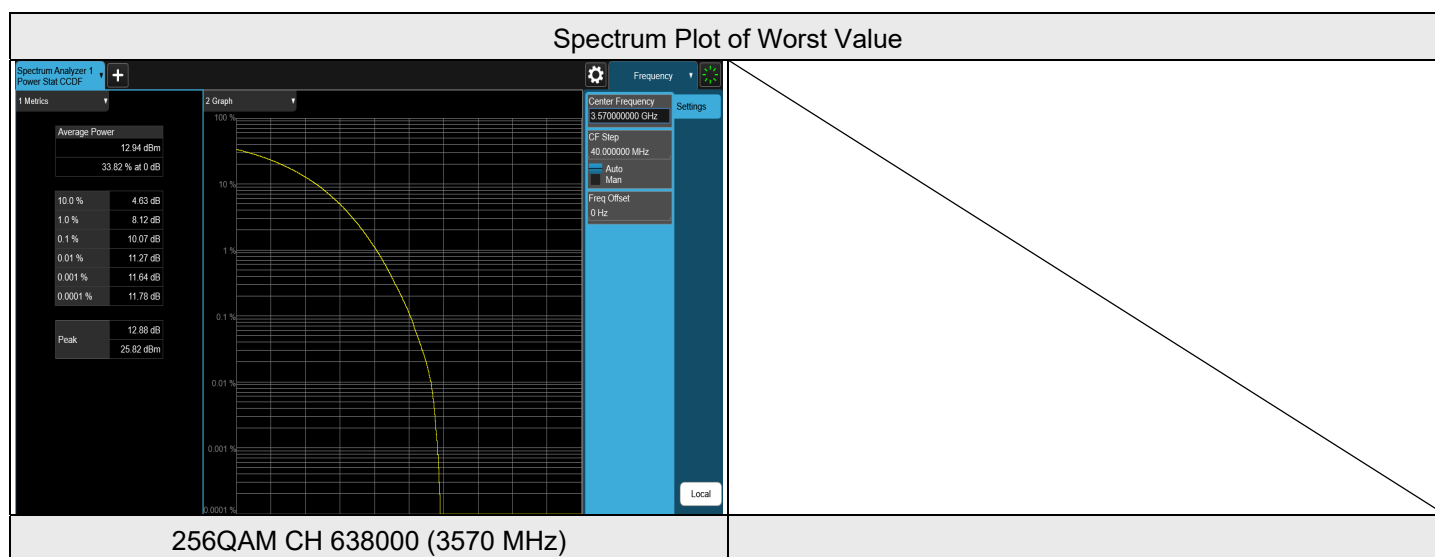
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	638000	3570	4.81	13	PASS
BPSK	641666	3624.99	5.68	13	PASS
BPSK	645332	3679.98	5.56	13	PASS



7.3.2 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

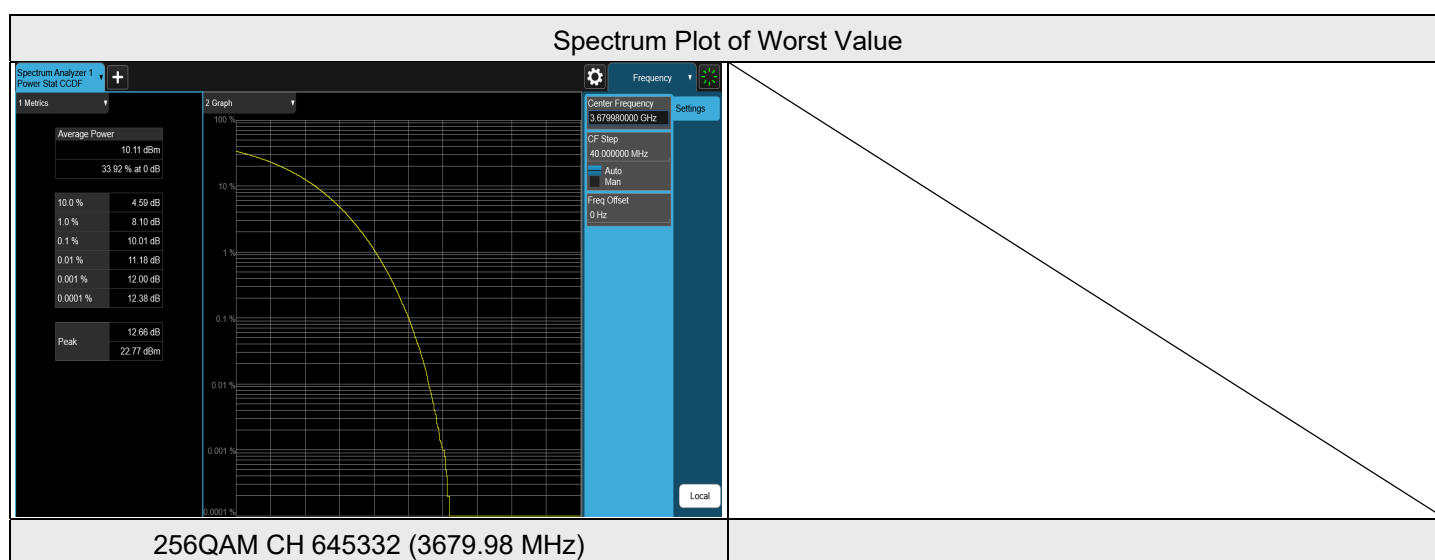
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	638000	3570	7.97	13	PASS
QPSK	641666	3624.99	8.71	13	PASS
QPSK	645332	3679.98	9.23	13	PASS
16QAM	638000	3570	8.23	13	PASS
16QAM	641666	3624.99	8.85	13	PASS
16QAM	645332	3679.98	9.26	13	PASS
64QAM	638000	3570	8.52	13	PASS
64QAM	641666	3624.99	8.80	13	PASS
64QAM	645332	3679.98	8.99	13	PASS
256QAM	638000	3570	10.07	13	PASS
256QAM	641666	3624.99	9.89	13	PASS
256QAM	645332	3679.98	9.36	13	PASS



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	638000	3570	7.89	13	PASS
QPSK	641666	3624.99	9.53	13	PASS
QPSK	645332	3679.98	9.05	13	PASS
16QAM	638000	3570	8.10	13	PASS
16QAM	641666	3624.99	9.79	13	PASS
16QAM	645332	3679.98	8.39	13	PASS
64QAM	638000	3570	8.43	13	PASS
64QAM	641666	3624.99	9.31	13	PASS
64QAM	645332	3679.98	8.95	13	PASS
256QAM	638000	3570	9.96	13	PASS
256QAM	641666	3624.99	9.57	13	PASS
256QAM	645332	3679.98	10.01	13	PASS



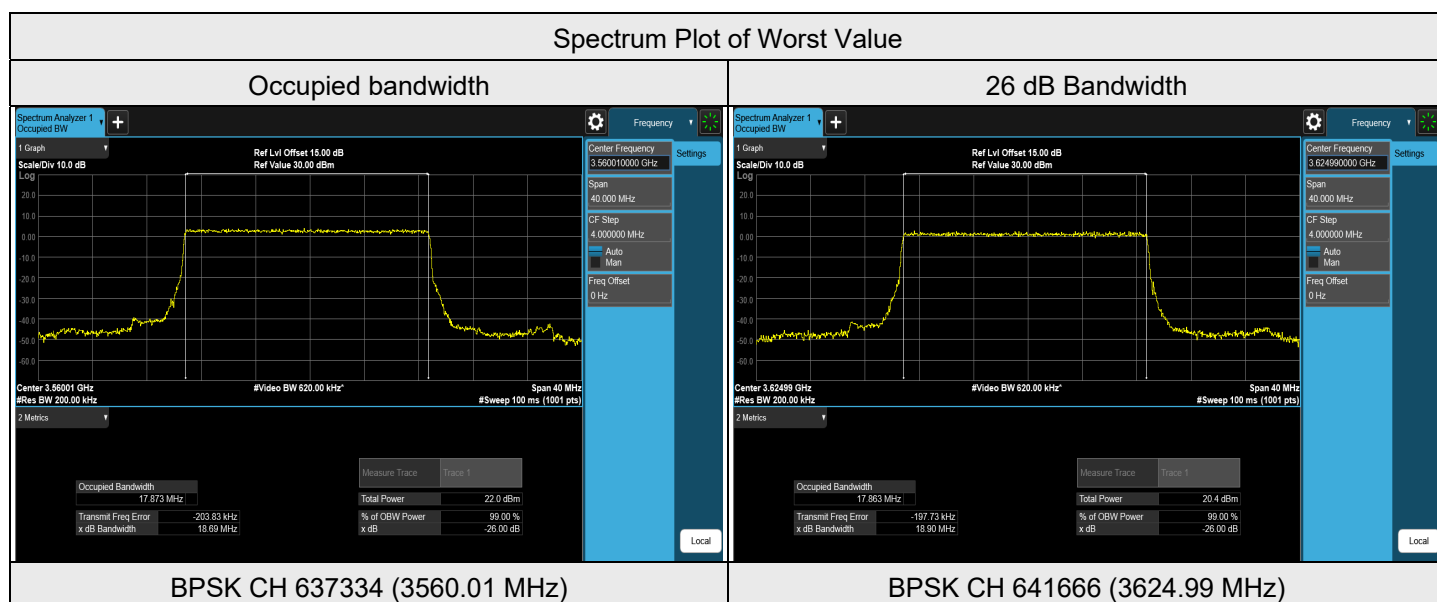
7.4 Bandwidth

Environmental Conditions:	25°C, 66% RH	Tested By:	James Yang
---------------------------	--------------	------------	------------

7.4.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz

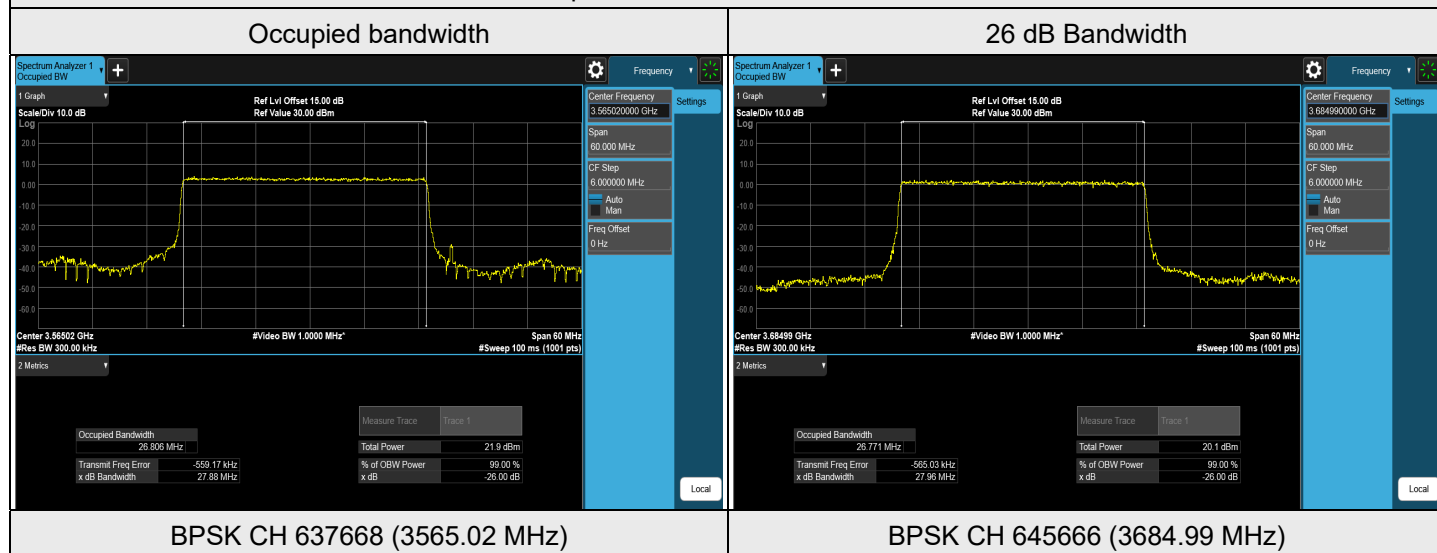
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637334	3560.01	17.8728	18.691
BPSK	641666	3624.99	17.8634	18.902
BPSK	646000	3690	17.8543	18.621



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637668	3565.02	26.8058	27.883
BPSK	641666	3624.99	26.7790	27.863
BPSK	645666	3684.99	26.7710	27.960

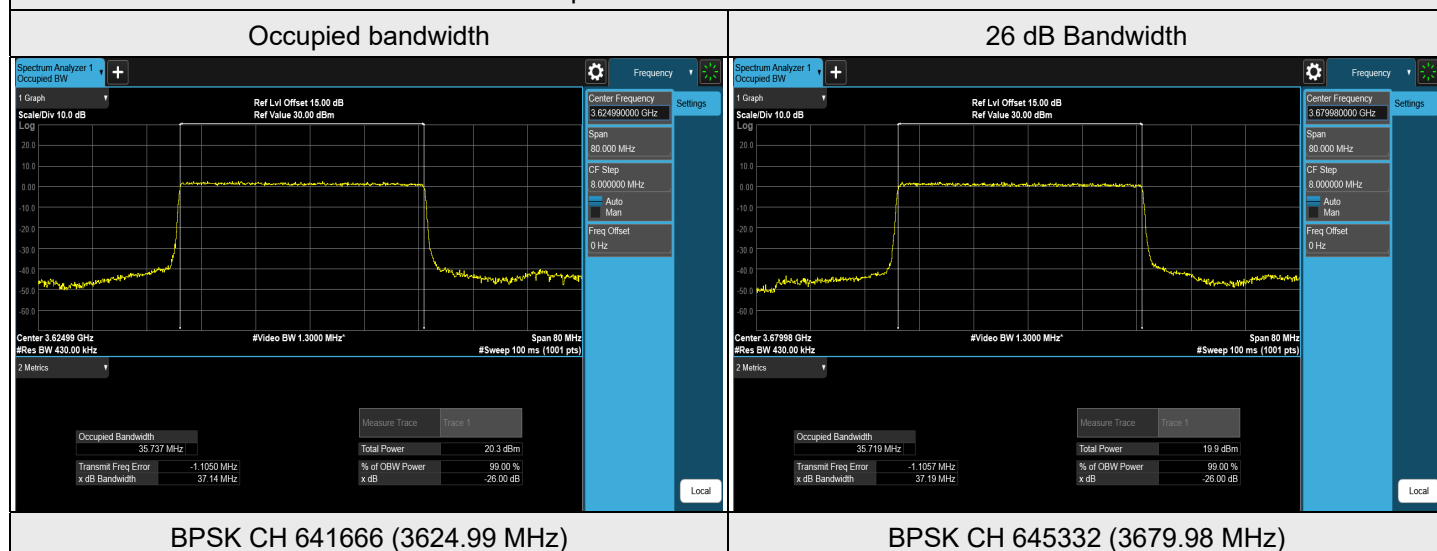
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	638000	3570	35.7159	37.071
BPSK	641666	3624.99	35.7370	37.136
BPSK	645332	3679.98	35.7189	37.194

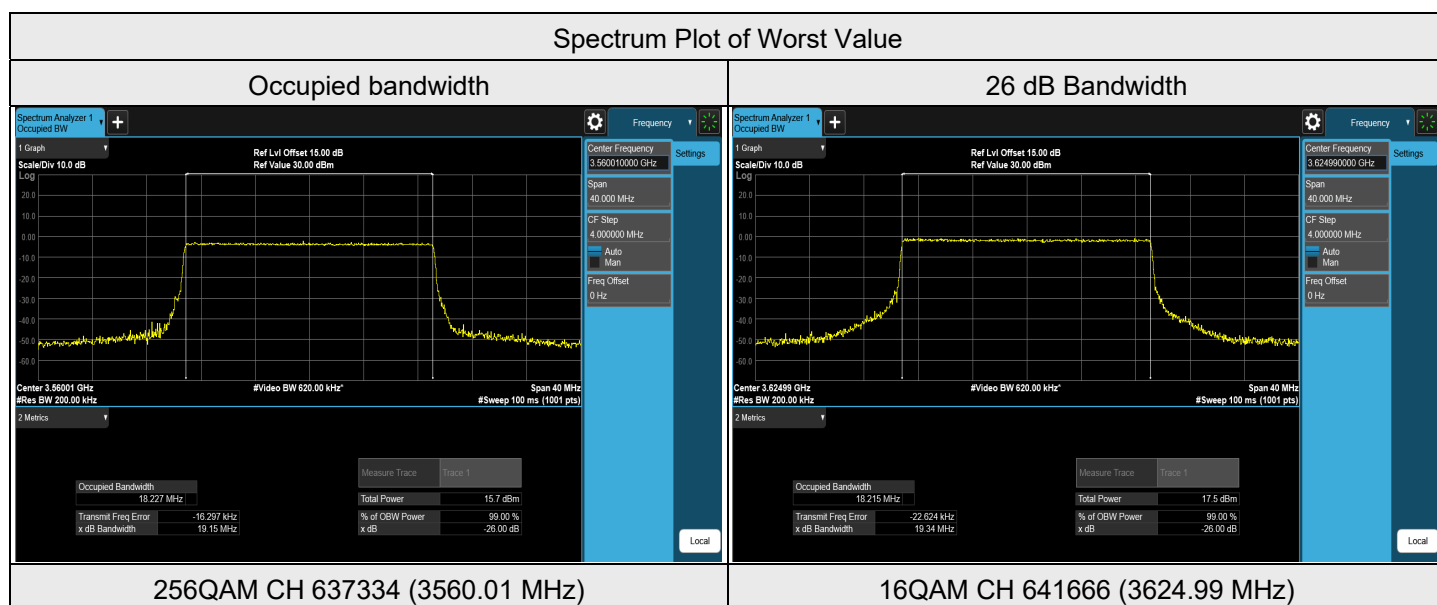
Spectrum Plot of Worst Value



7.4.2 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 20 MHz

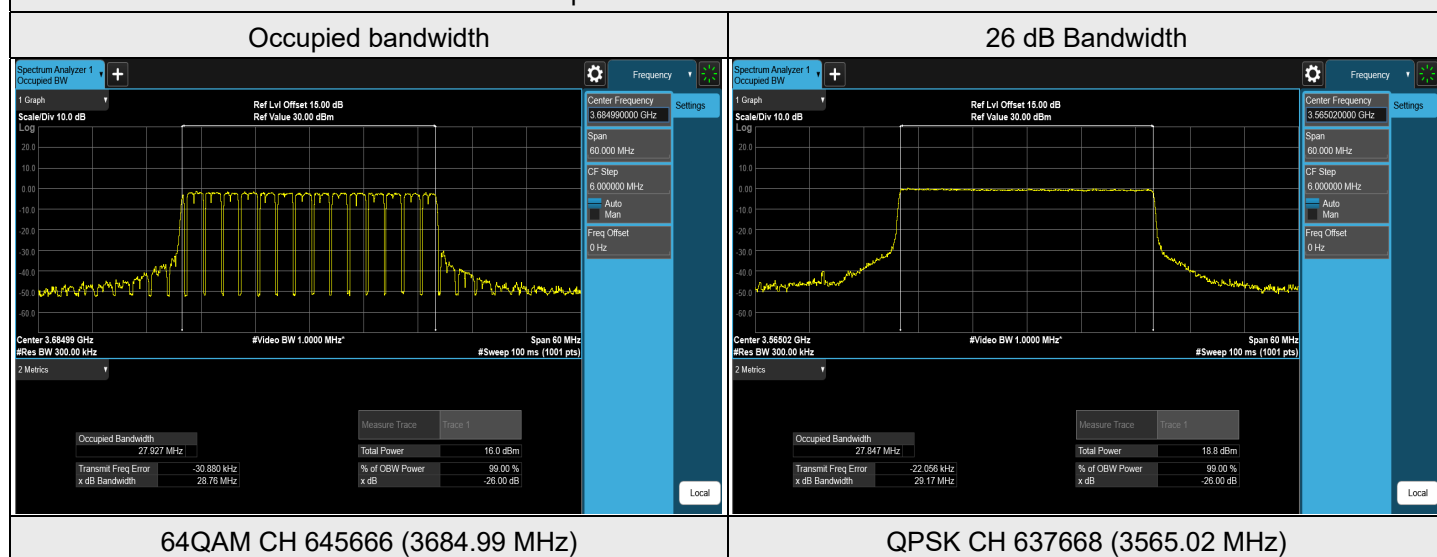
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637334	3560.01	18.2168	19.315
QPSK	641666	3624.99	18.2120	19.300
QPSK	646000	3690	18.2095	19.225
16QAM	637334	3560.01	18.2170	19.239
16QAM	641666	3624.99	18.2149	19.335
16QAM	646000	3690	18.2131	19.178
64QAM	637334	3560.01	18.2124	19.170
64QAM	641666	3624.99	18.2077	19.124
64QAM	646000	3690	18.2179	19.232
256QAM	637334	3560.01	18.2271	19.154
256QAM	641666	3624.99	18.2040	19.051
256QAM	646000	3690	18.2108	19.126



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637668	3565.02	27.8472	29.171
QPSK	641666	3624.99	27.8543	29.113
QPSK	645666	3684.99	27.8281	29.080
16QAM	637668	3565.02	27.8612	29.063
16QAM	641666	3624.99	27.8470	29.127
16QAM	645666	3684.99	27.8724	28.991
64QAM	637668	3565.02	27.8482	29.107
64QAM	641666	3624.99	27.8399	29.113
64QAM	645666	3684.99	27.9270	28.760
256QAM	637668	3565.02	27.8433	29.074
256QAM	641666	3624.99	27.8413	28.966
256QAM	645666	3684.99	27.8753	28.872

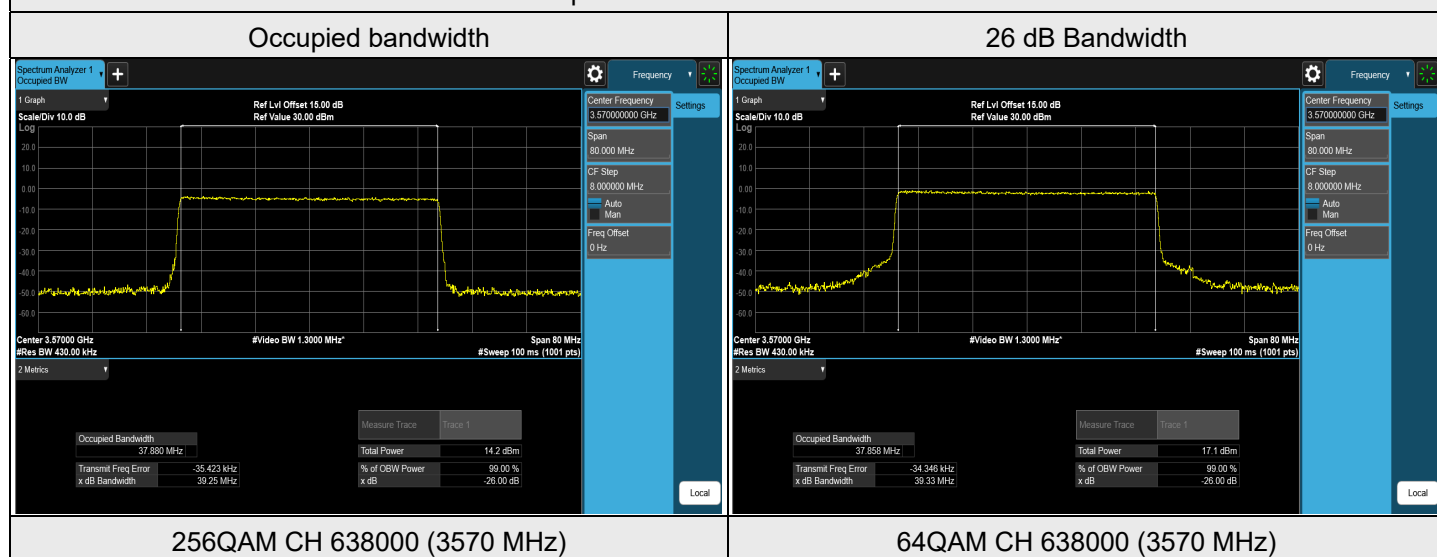
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	638000	3570	37.8422	39.276
QPSK	641666	3624.99	37.8504	39.319
QPSK	645332	3679.98	37.8528	39.292
16QAM	638000	3570	37.8719	39.270
16QAM	641666	3624.99	37.8336	39.296
16QAM	645332	3679.98	37.8404	39.283
64QAM	638000	3570	37.8580	39.333
64QAM	641666	3624.99	37.8461	39.317
64QAM	645332	3679.98	37.8607	39.329
256QAM	638000	3570	37.8799	39.249
256QAM	641666	3624.99	37.8488	39.297
256QAM	645332	3679.98	37.8561	39.249

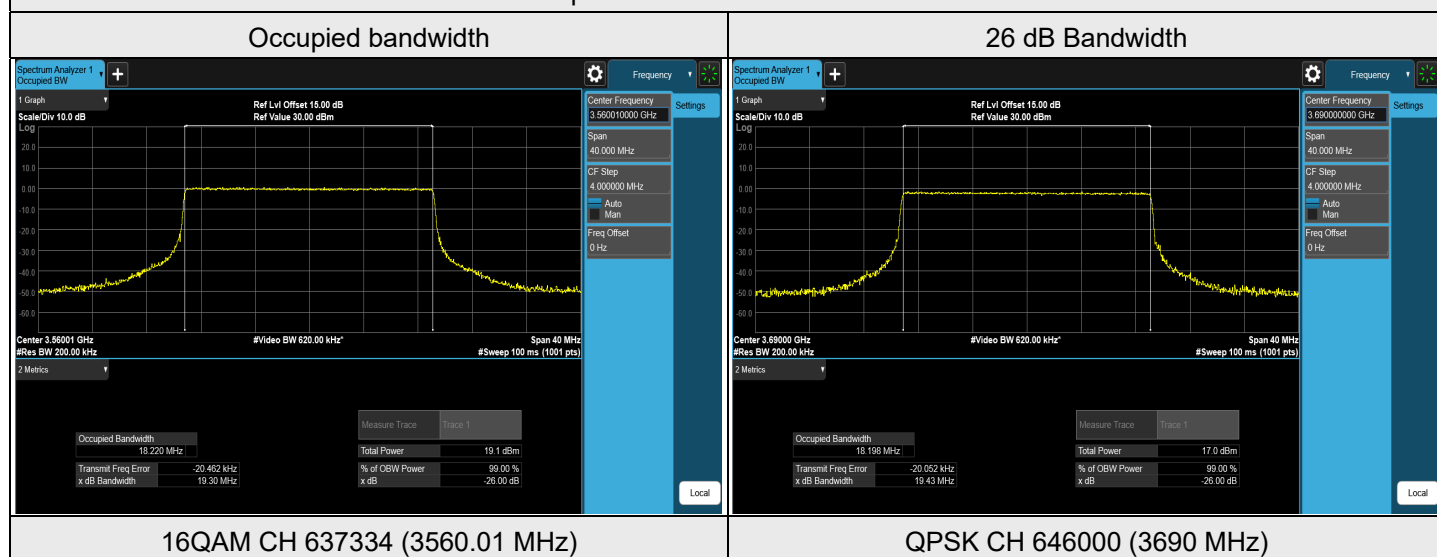
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637334	3560.01	18.2142	19.368
QPSK	641666	3624.99	18.2044	19.203
QPSK	646000	3690	18.1984	19.432
16QAM	637334	3560.01	18.2200	19.302
16QAM	641666	3624.99	18.2119	19.308
16QAM	646000	3690	18.2056	19.260
64QAM	637334	3560.01	18.2194	19.246
64QAM	641666	3624.99	18.2184	19.209
64QAM	646000	3690	18.1973	19.217
256QAM	637334	3560.01	18.2101	19.279
256QAM	641666	3624.99	18.2108	19.280
256QAM	646000	3690	18.2181	19.191

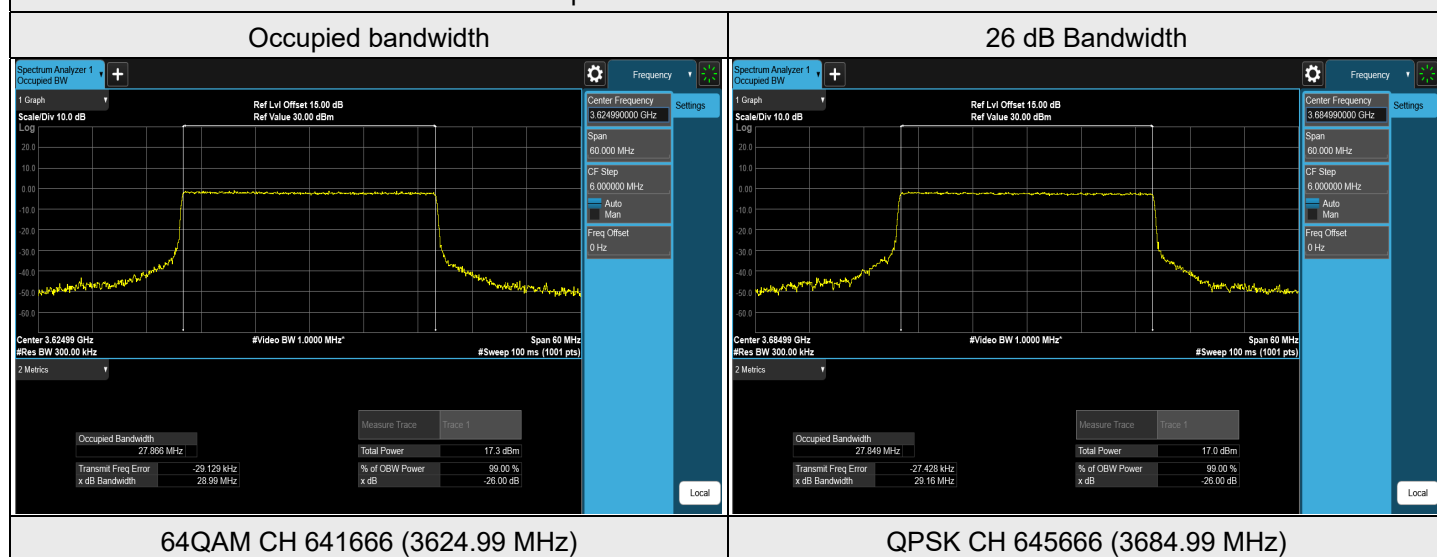
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637668	3565.02	27.8513	29.086
QPSK	641666	3624.99	27.8484	29.007
QPSK	645666	3684.99	27.8493	29.162
16QAM	637668	3565.02	27.8456	29.050
16QAM	641666	3624.99	27.8332	29.042
16QAM	645666	3684.99	27.8202	28.980
64QAM	637668	3565.02	27.8577	28.988
64QAM	641666	3624.99	27.8657	28.987
64QAM	645666	3684.99	27.8288	29.078
256QAM	637668	3565.02	27.8473	29.104
256QAM	641666	3624.99	27.8385	29.102
256QAM	645666	3684.99	27.8398	28.934

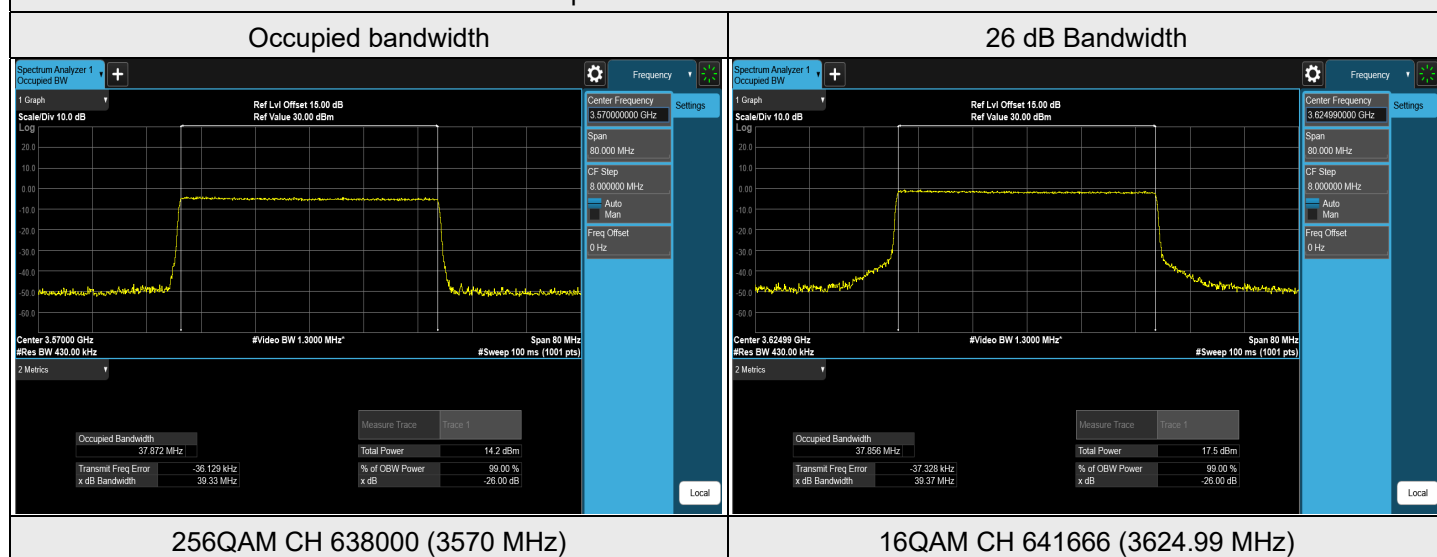
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	638000	3570	37.8531	39.286
QPSK	641666	3624.99	37.8425	39.302
QPSK	645332	3679.98	37.8585	39.356
16QAM	638000	3570	37.8534	39.297
16QAM	641666	3624.99	37.8563	39.372
16QAM	645332	3679.98	37.8360	39.363
64QAM	638000	3570	37.8359	39.248
64QAM	641666	3624.99	37.8490	39.261
64QAM	645332	3679.98	37.8567	39.265
256QAM	638000	3570	37.8716	39.328
256QAM	641666	3624.99	37.8480	39.236
256QAM	645332	3679.98	37.8203	39.268

Spectrum Plot of Worst Value

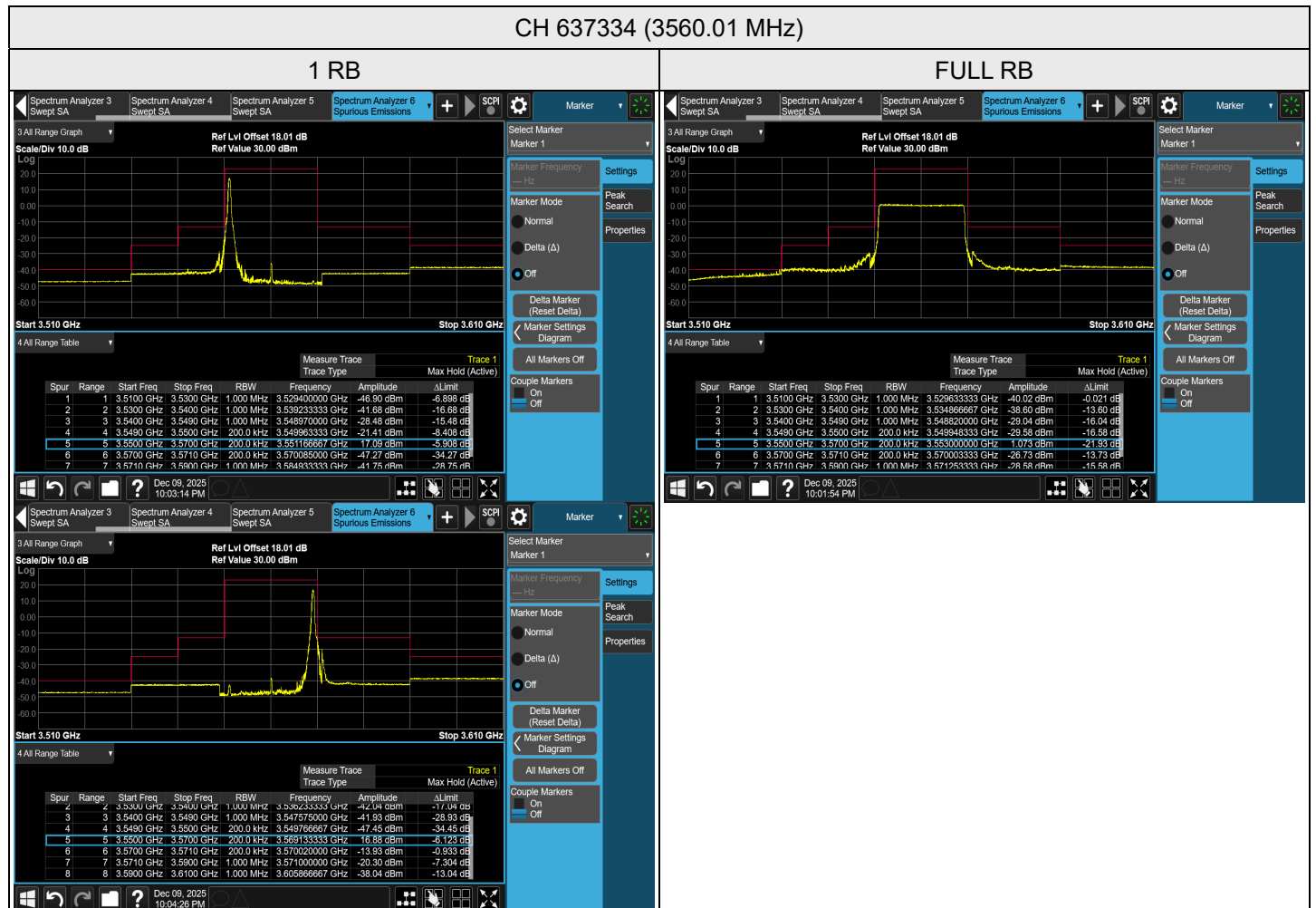


7.5 Conducted Spurious Emissions

Environmental Conditions:	25°C, 66% RH	Tested By:	James Yang
---------------------------	--------------	------------	------------

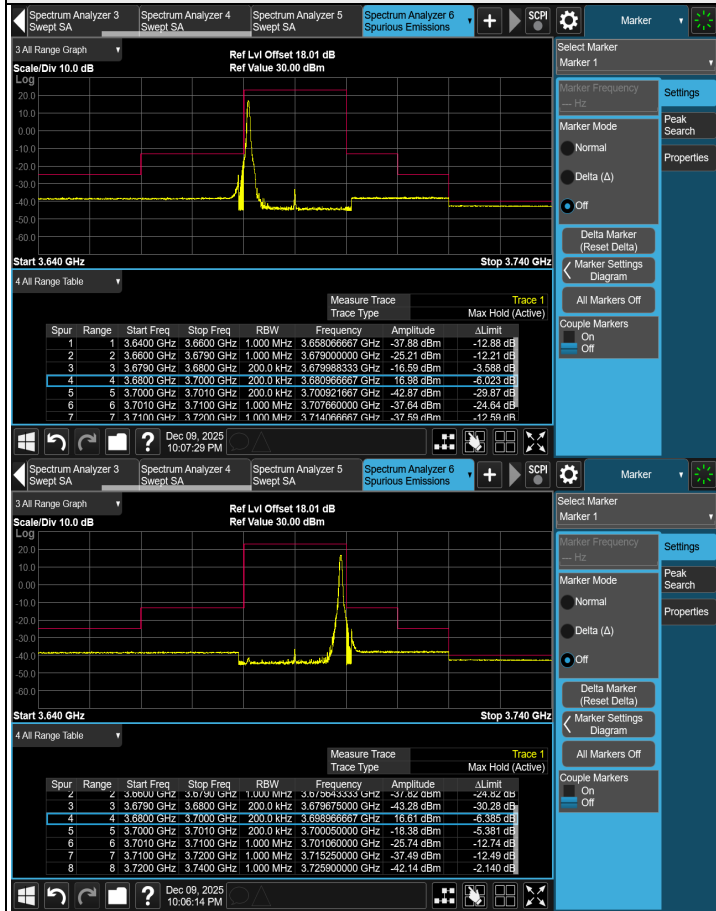
7.5.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 20 MHz

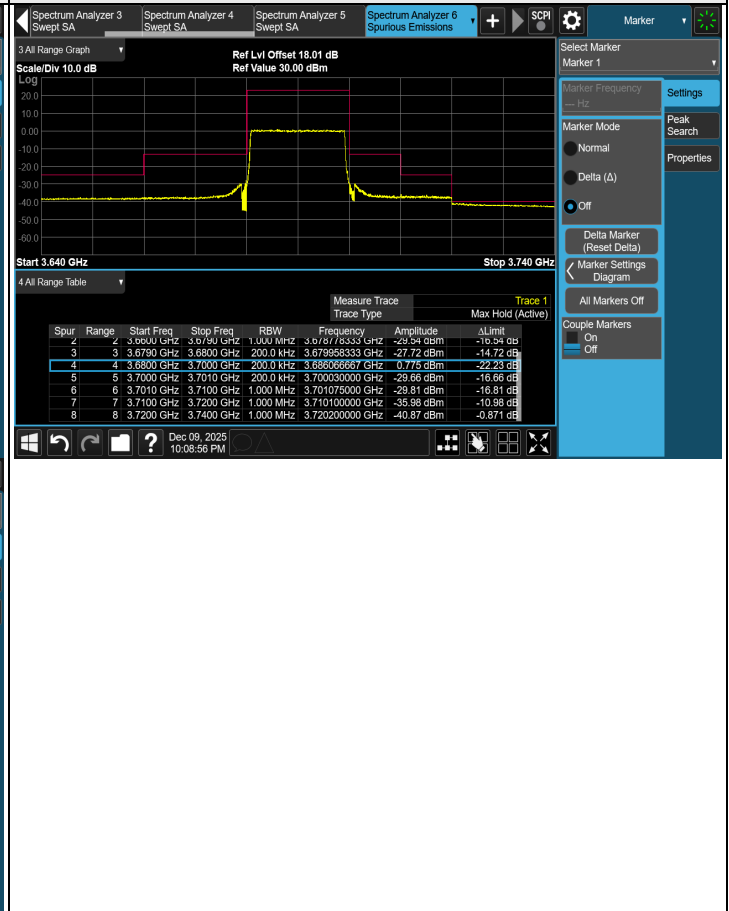


CH 646000 (3690 MHz)

1 RB

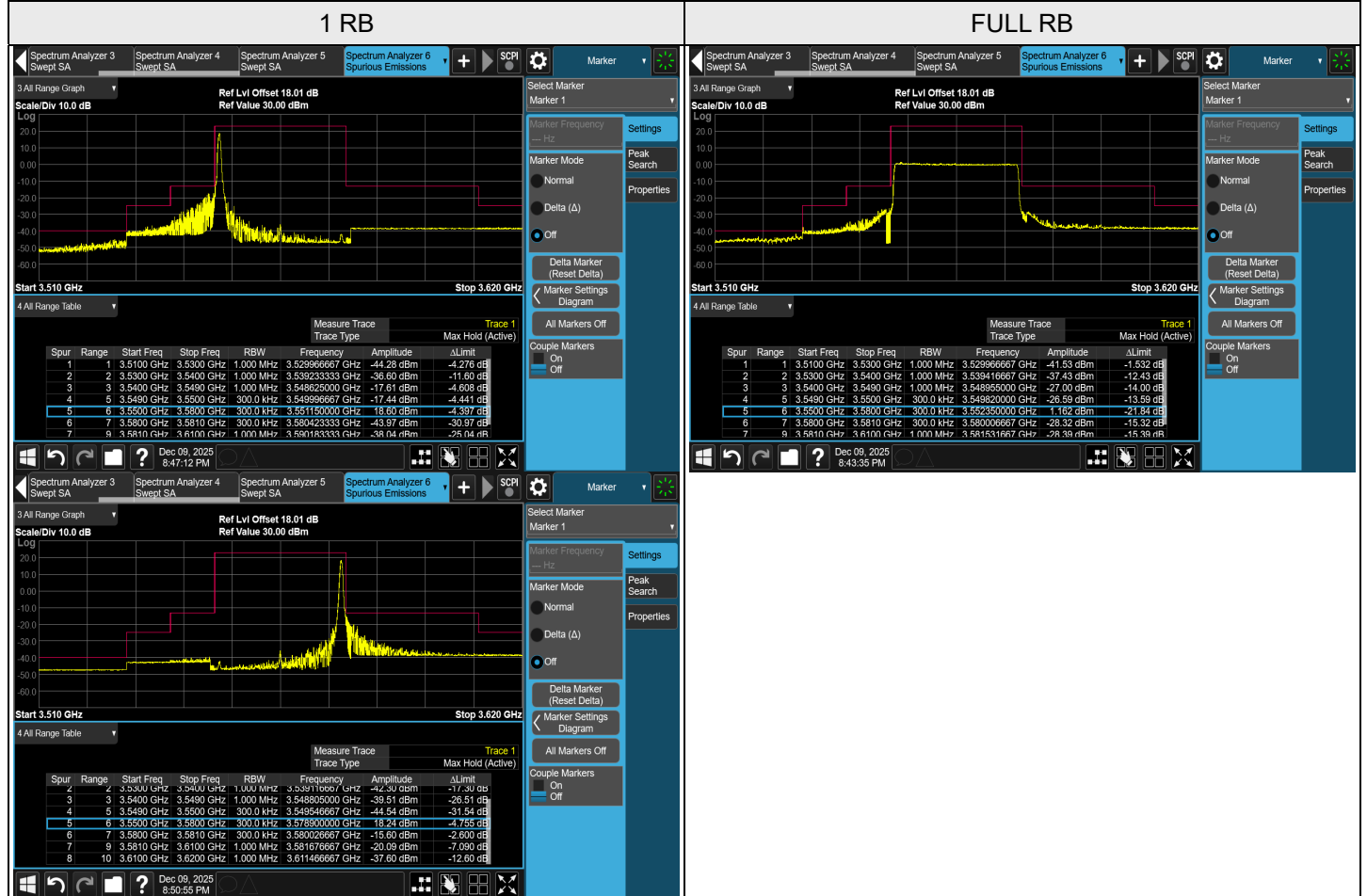


FULL RB



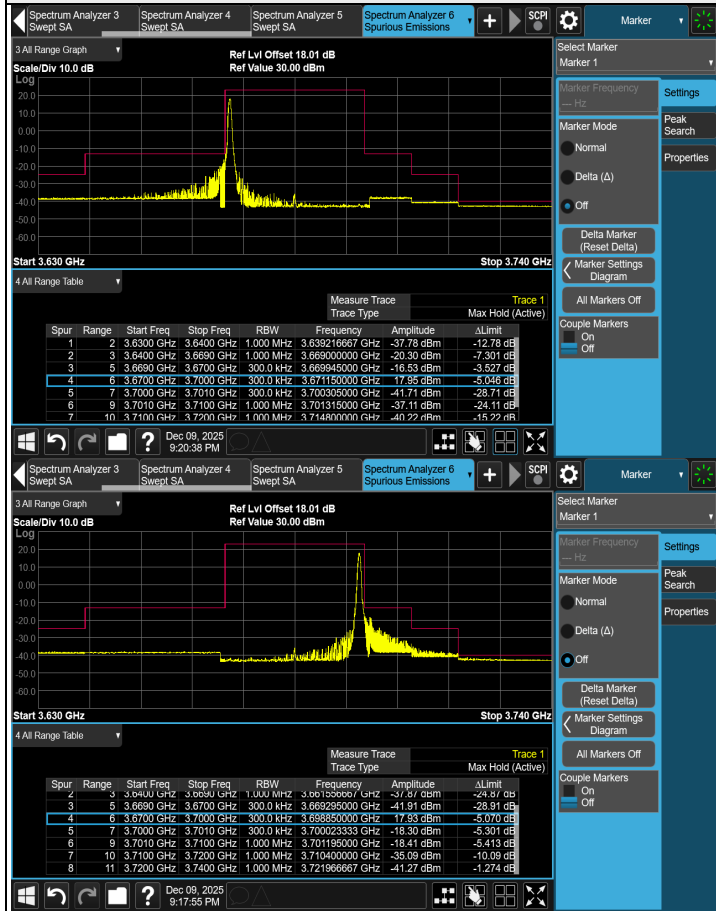
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 30 MHz

CH 637668 (3565.02 MHz)

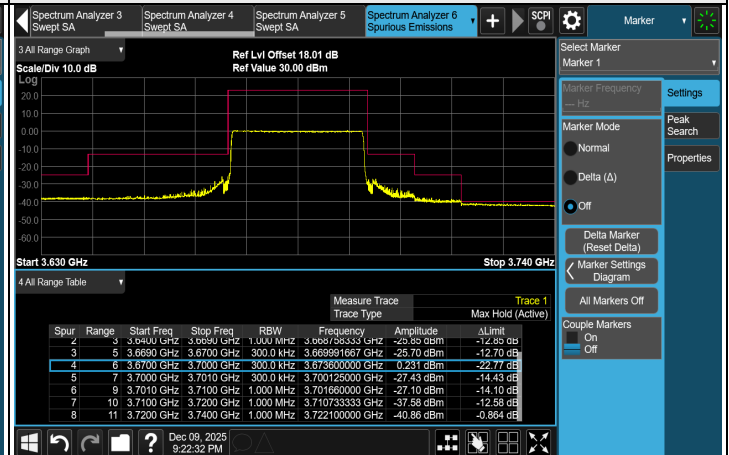


CH 645666 (3684.99 MHz)

1 RB

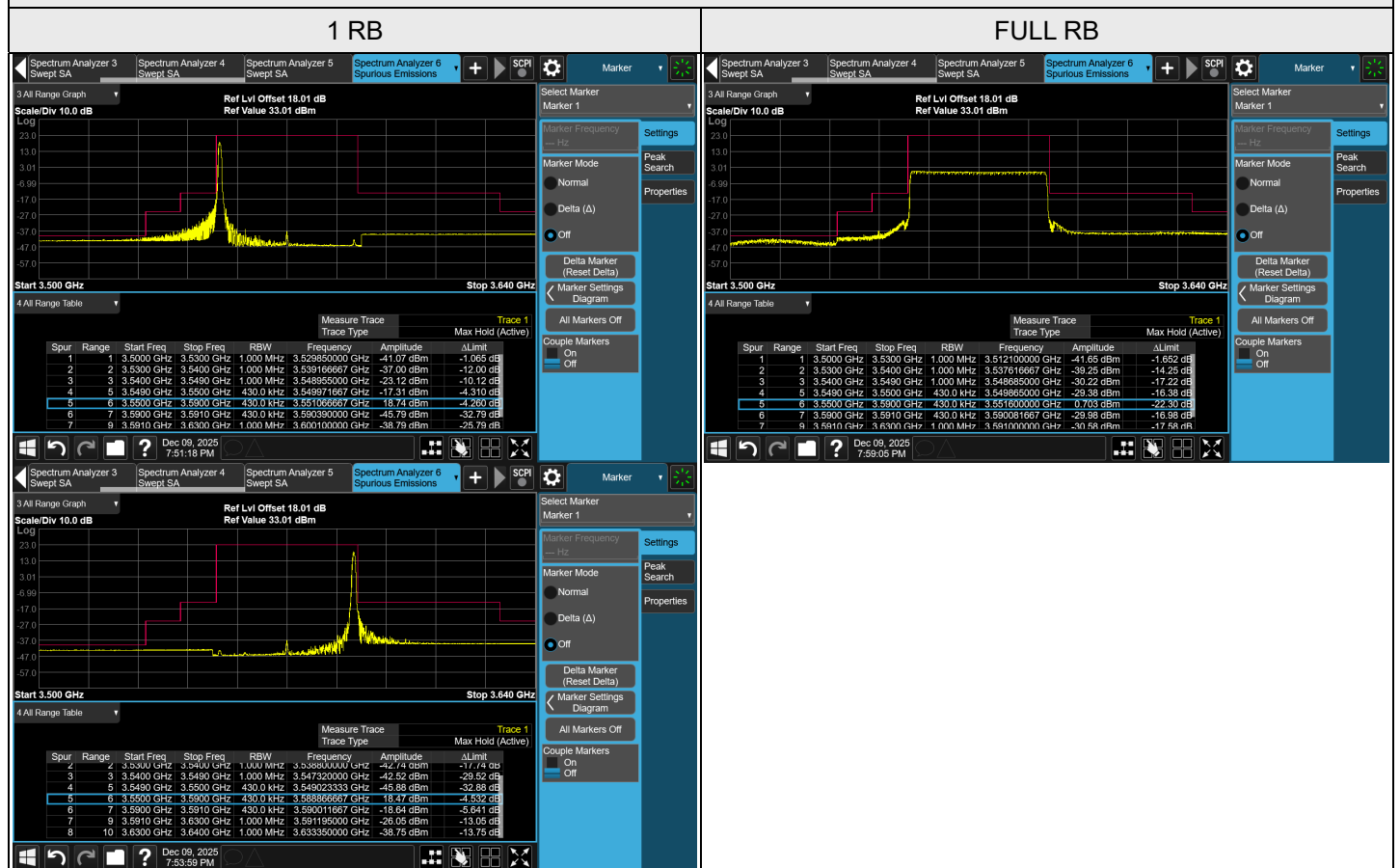


FULL RB



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 40 MHz

CH 638000 (3570 MHz)

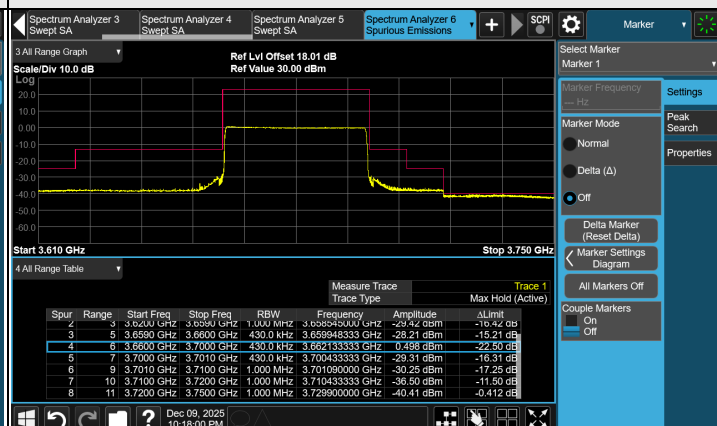


CH 645332 (3679.98 MHz)

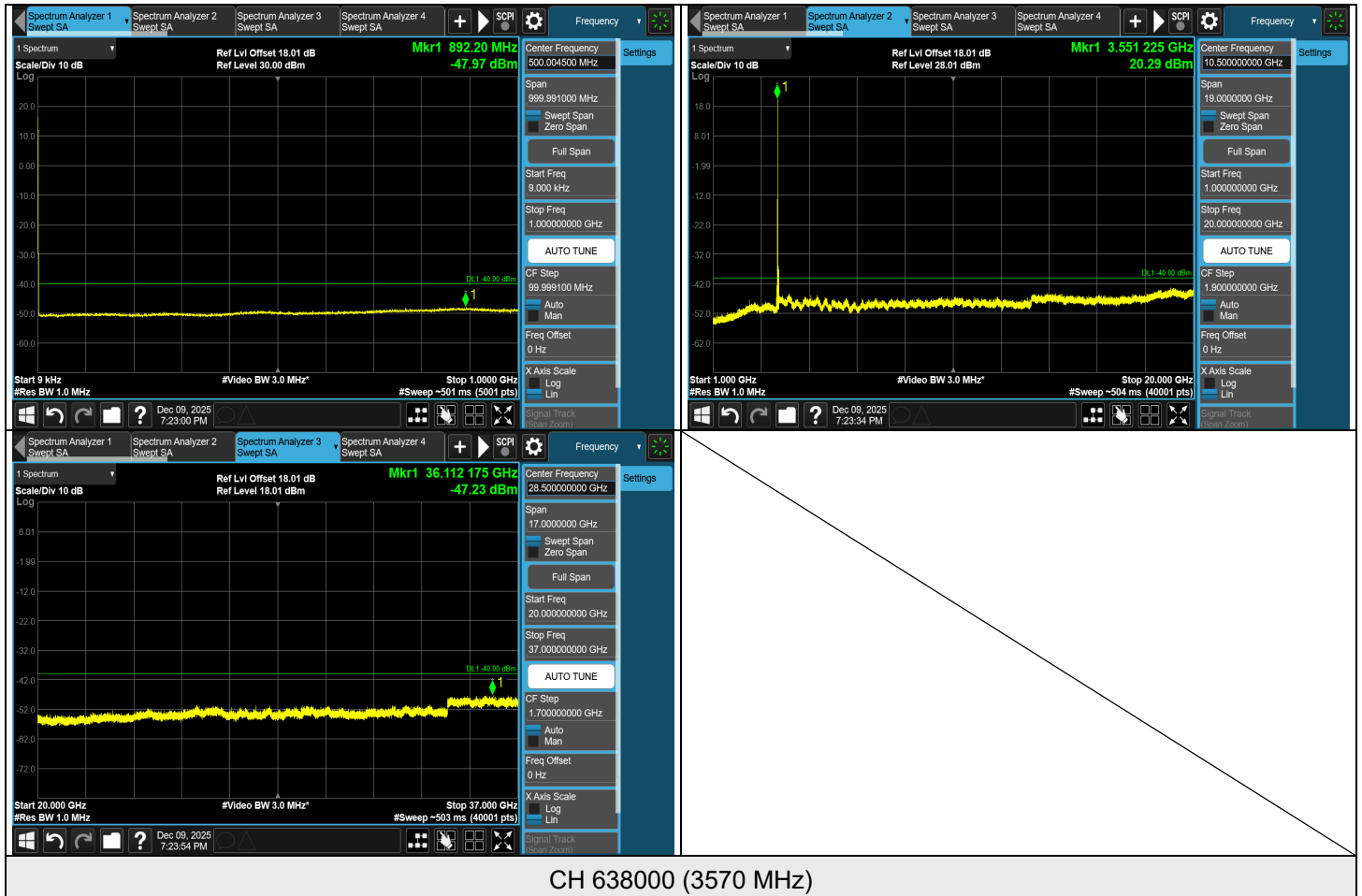
1 RB

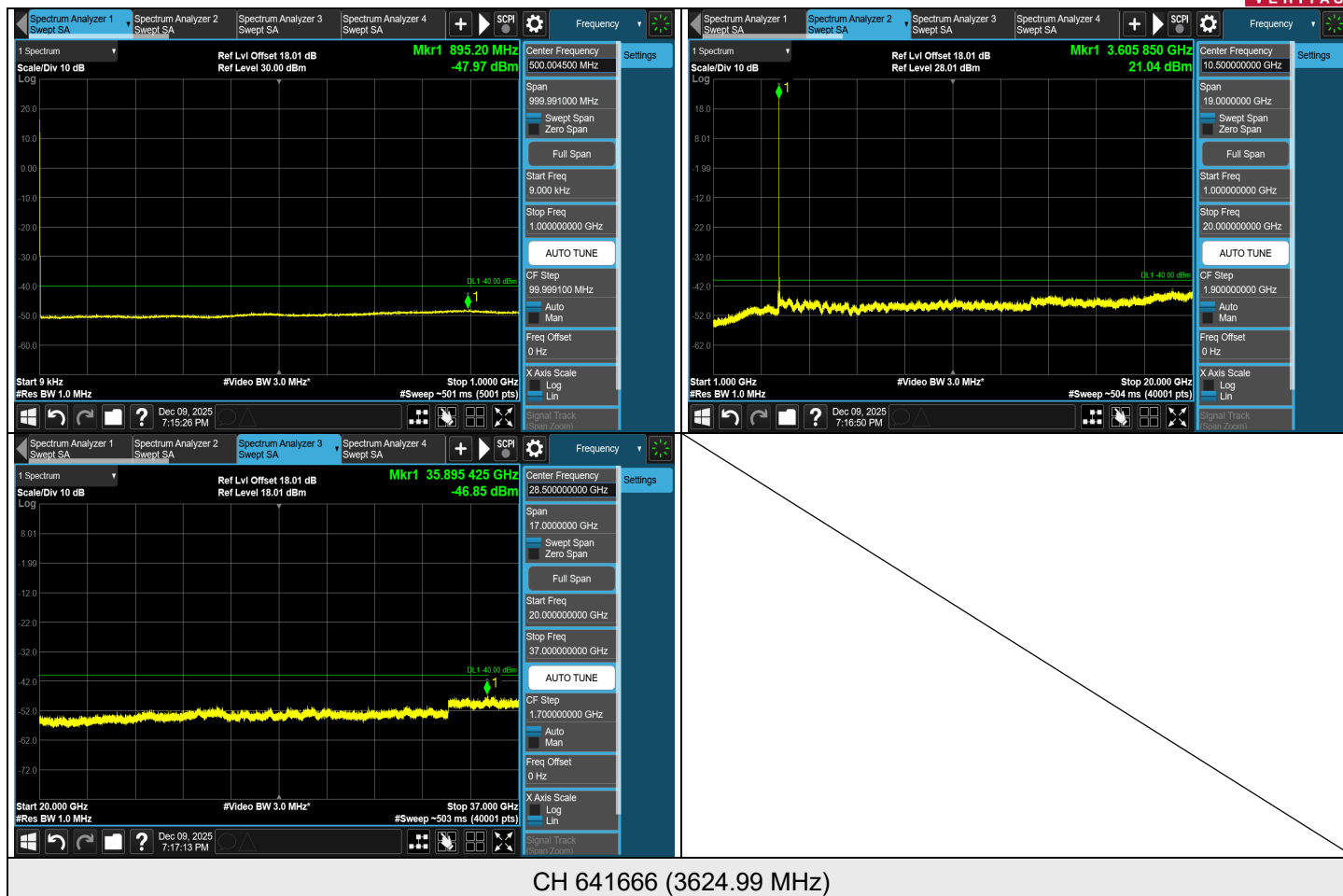


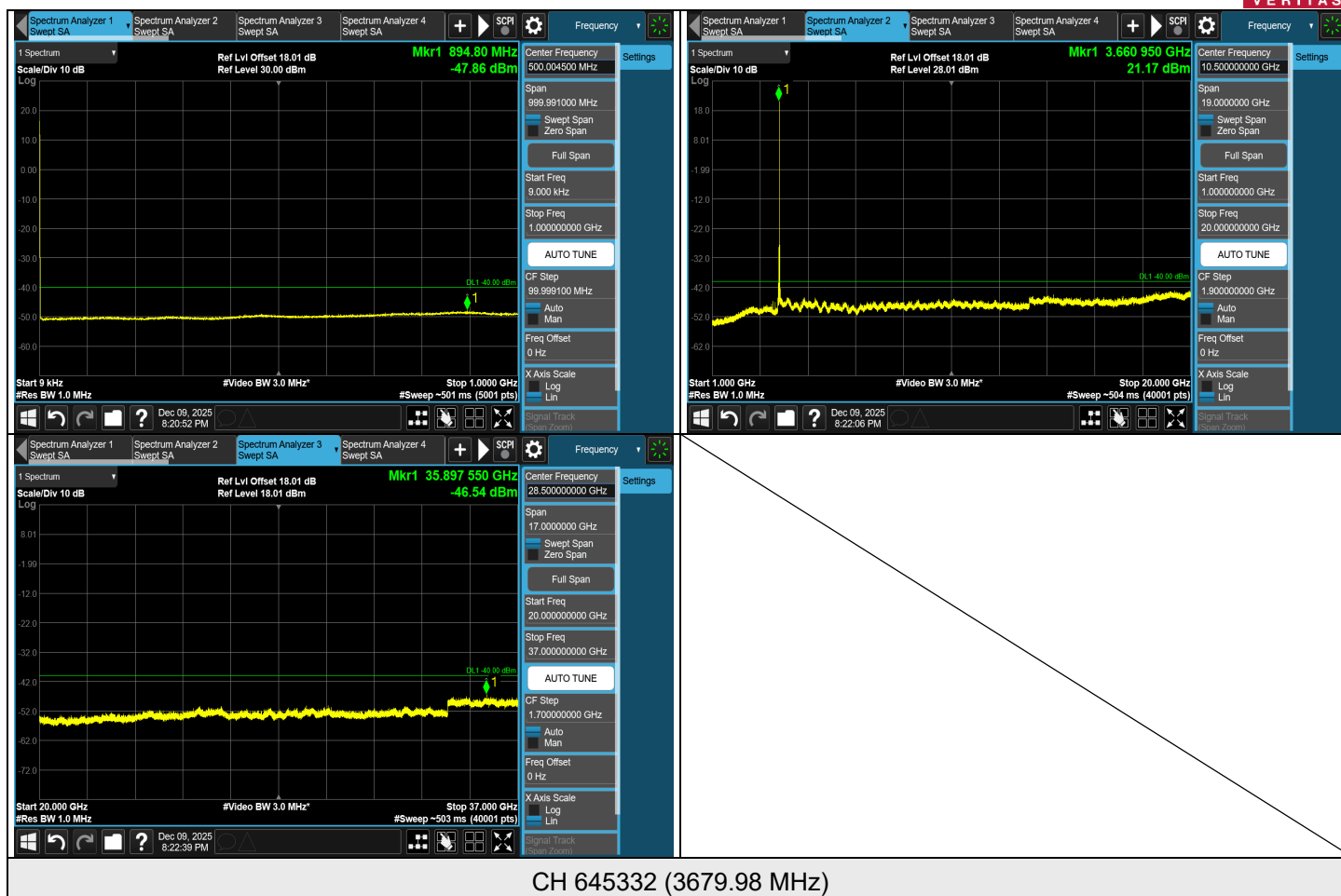
FULL RB



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 40 MHz



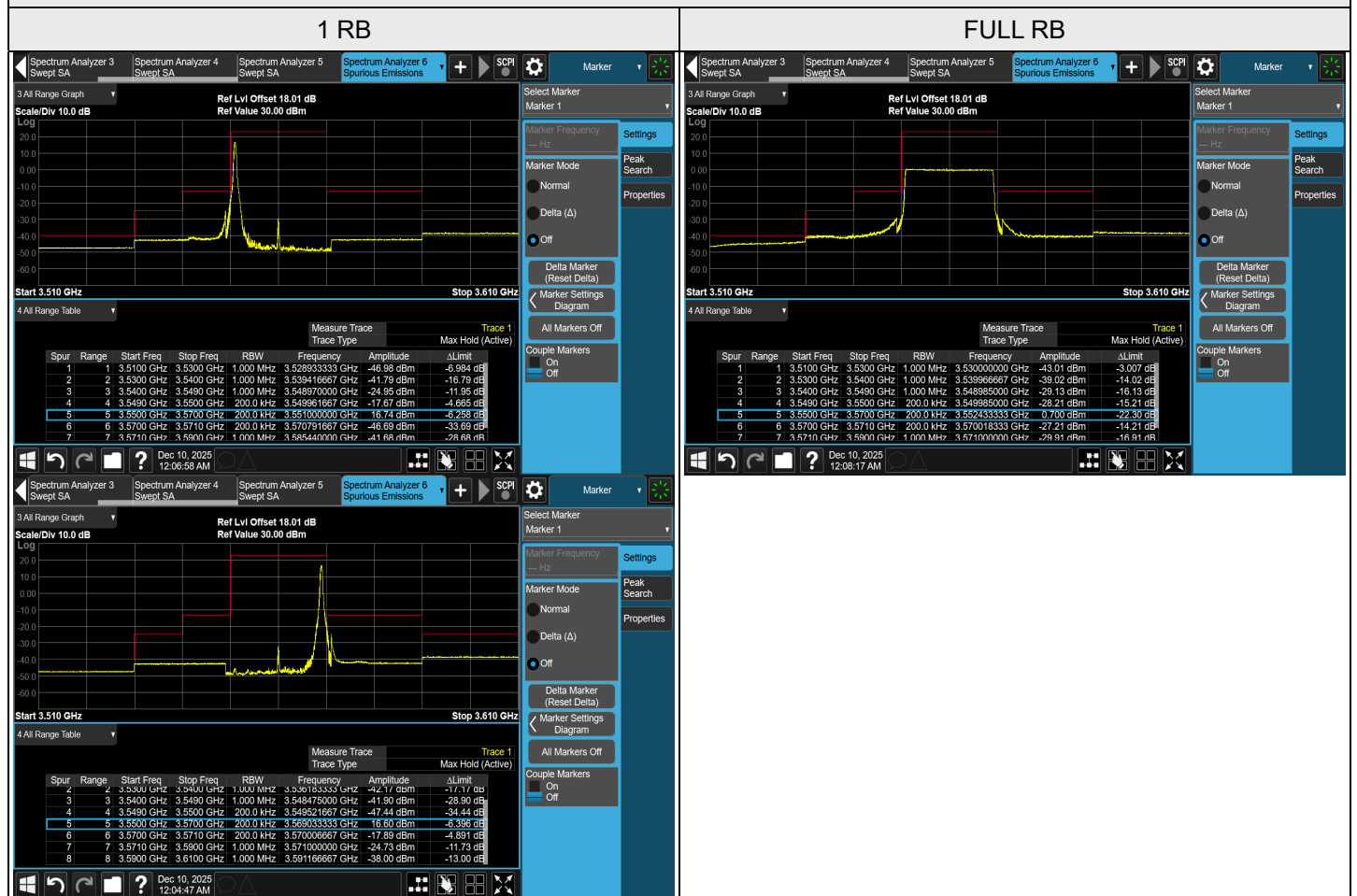




Note: The signal at 9 kHz is IF signal from spectrum analyzer.

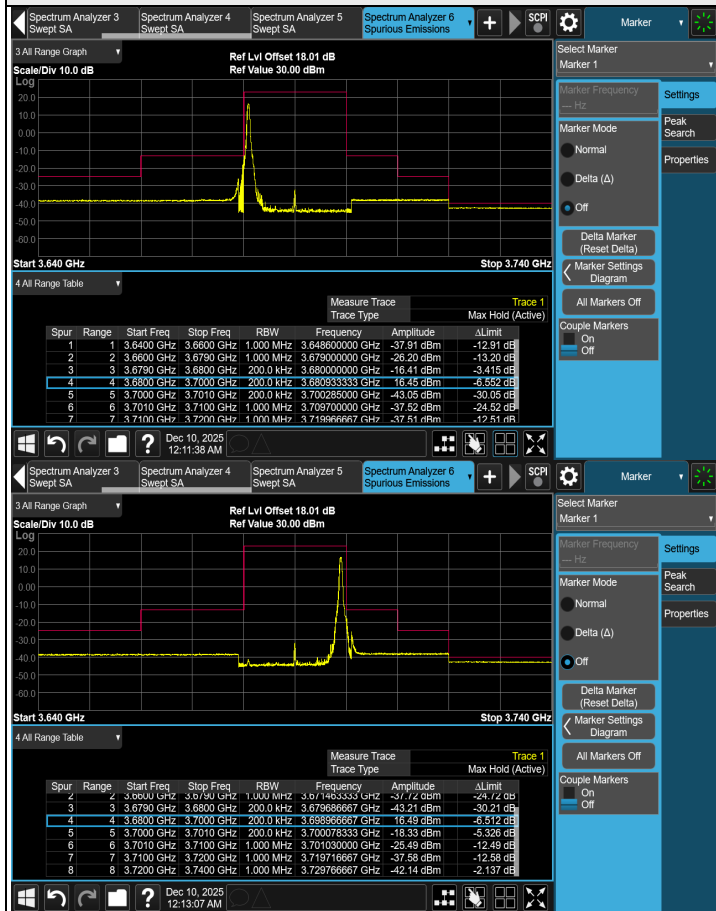
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 20 MHz

CH 637334 (3560.01 MHz)

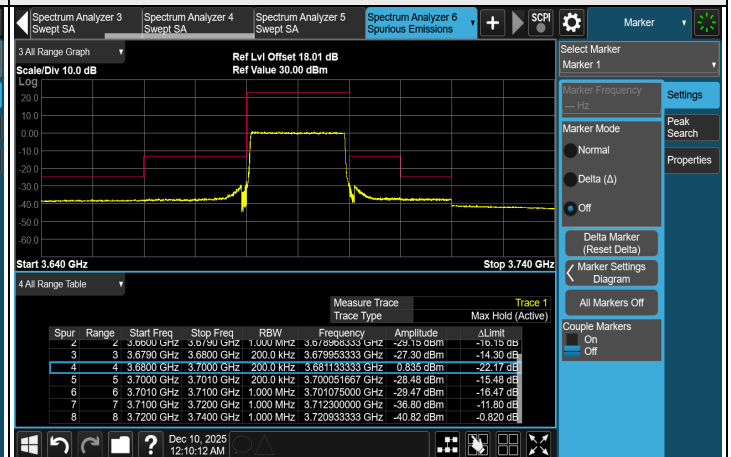


CH 646000 (3690 MHz)

1 RB



FULL RB



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 30 MHz

CH 637668 (3565.02 MHz)

