

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFCVSF-WTW-P25090814A-3 R1

FCC ID: PKRISGM4010

Product: Wireless Hotspot

Brand: Inseego

Model No.: M4010

Received Date: 2026/4/20

Test Date: 2026/4/30 ~ 2026/6/5

Issued Date: 2026/6/17

Applicant: Inseego Corp.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number:

Approved by: _____

Jeremy Lin

, Date: _____

2026/6/17

Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFCVSF-WTW-P25090814A-3	Original Release	2026/6/11
RFCVSF-WTW-P25090814A-3 R1	Update MIMO mode 64QAM power	2026/6/17

1 Certificate

Product: Wireless Hotspot

Brand: Inseego

Test Model: M4010

Sample Status: Engineering sample

Applicant: Inseego Corp.

Test Date: 2026/4/30 ~ 2026/6/5

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 -3.39 dB at 53.28 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -1.09 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	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 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	Wireless Hotspot
Brand	Inseego
Test Model	M4010
Market Model Name	M4000, M4040
Model Difference	Marketing purpose
Status of EUT	Engineering sample
Power Supply Rating	5 Vdc or 9 Vdc or 12 Vdc from adapter 3.85 Vdc from battery
EUT Category	End User Device
Modulation Type	DFT-s-OFDM, CP-OFDM
5G NR support SISO bands	n48
5G NR support MIMO bands	n48
PC3 for Power Class	n48

Note:

1. This report is issued as a supplementary report to BV CPS report no.: RFCVSF-WTW-P25090814-8. The difference compared with original report is adding MIMO mode for NR n48. Therefore, for SISO mode, Maximum EIRP was verified. For MIMO mode, the EUT is performed on full test and recorded in this report.
2. The EUT uses following accessories.

Item	Brand	Model	Specification	P/N
AC Adapter	SUNUN	P181	AC Input: 100-240V, 50/60Hz, 0.5A MAX DC Output: 5V, 3A; 9V, 2A; 12V 1.5A	-
USB Cable	inseego	-	Signal Line: 1.0m, shielded	CAB-60723090
Battery	inseego	754685	3.85V, 5050mAh, 19.44Wh	-

3. There are WLAN (2.4 GHz & 5 GHz) and WWAN technology used for the EUT.

4. EUT Overview

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

SISO

Bandwidth	TX Frequency Range (MHz)	Modulation	Full Power		dBm/10 MHz	
			Max. EIRP (W)	Max. EIRP (dBm)	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3555 ~ 3694.98	BPSK	0.118	20.71	-	-
		QPSK	0.110	20.42	-	-
		16QAM	0.066	18.18	-	-
		64QAM	0.070	18.44	-	-
		256QAM	0.034	15.37	-	-
15 MHz	3557.52 ~ 3692.49	BPSK	0.121	20.82	0.119	20.75
		QPSK	0.108	20.32	0.107	20.28
		16QAM	0.065	18.16	0.064	18.08
		64QAM	0.068	18.34	0.068	18.34
		256QAM	0.034	15.37	0.034	15.26
20 MHz	3560.01 ~ 3690	BPSK	0.121	20.81	0.118	20.72
		QPSK	0.105	20.22	0.105	20.20
		16QAM	0.063	17.99	0.062	17.90
		64QAM	0.070	18.48	0.069	18.39
		256QAM	0.036	15.54	0.035	15.45
30 MHz	3565.02 ~ 3684.99	BPSK	0.120	20.80	0.118	20.71
		QPSK	0.105	20.23	0.105	20.21
		16QAM	0.064	18.08	0.063	17.98
		64QAM	0.072	18.55	0.071	18.53
		256QAM	0.034	15.36	0.034	15.36
40 MHz	3570 ~ 3679.98	BPSK	0.125	20.96	0.124	20.93
		QPSK	0.112	20.51	0.111	20.47
		16QAM	0.067	18.26	0.066	18.22
		64QAM	0.071	18.51	0.069	18.39
		256QAM	0.038	15.80	0.037	15.69

MIMO

Bandwidth	TX Frequency Range (MHz)	Modulation	Full Power		dBm/10 MHz		Emission Designator
			Max. EIRP (W)	Max. EIRP (dBm)	Max. EIRP (W)	Max. EIRP (dBm)	
10 MHz	3555 ~ 3694.98	QPSK	0.181	22.57	-	-	8M58G7D
		16QAM	0.119	20.75	-	-	8M60D7W
		64QAM	0.109	20.37	-	-	8M59D7W
		256QAM	0.061	17.83	-	-	8M60D7W
15 MHz	3557.52 ~ 3692.49	QPSK	0.179	22.53	0.178	22.50	13M6G7D
		16QAM	0.120	20.78	0.118	20.73	13M6D7W
		64QAM	0.109	20.37	0.107	20.30	13M6D7W
		256QAM	0.060	17.80	0.060	17.76	13M6D7W
20 MHz	3560.01 ~ 3690	QPSK	0.179	22.53	0.177	22.48	18M2G7D
		16QAM	0.117	20.70	0.116	20.66	18M3D7W
		64QAM	0.109	20.38	0.109	20.37	18M2D7W
		256QAM	0.060	17.81	0.060	17.77	18M2D7W
30 MHz	3565.02 ~ 3684.99	QPSK	0.181	22.58	0.180	22.55	27M9G7D
		16QAM	0.119	20.76	0.117	20.70	27M9D7W
		64QAM	0.109	20.38	0.109	20.39	27M9D7W
		256QAM	0.060	17.80	0.059	17.74	27M9D7W
40 MHz	3570 ~ 3679.98	QPSK	0.182	22.60	0.181	22.57	37M9G7D
		16QAM	0.120	20.80	0.119	20.77	37M8D7W
		64QAM	0.110	20.43	0.110	20.42	37M9D7W
		256QAM	0.061	17.86	0.060	17.79	37M9D7W

5. The EUT support n48 SA mode and SRS mode, after verification, SA mode was the worst case and chose for final test.
6. For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.
7. 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.

Type		PIFA		
Connector		Contact spring		
Band		Freq. Range (MHz)	Gain (dBi)	
			WWAN (A2-TX0)	WWAN (A3-TX1)
5GNR B48	1TX (Diversity), 2TX	3550 ~ 3700	0.31	0.97

* For 1TX (Diversity), the maximum antenna gain was chosen for final test.

* 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. 2. Pre-Scan has been conducted to determine the worst-case from all possible combinations of EUT configure mode (1TX or 2TX if available), channel, bandwidth, modulation and RB mode. See below table(s) for details.
Worst Case:	X-axis / Y-axis / Z-axis Worst Condition: Y-axis

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	PC3 (1TX) PC3 (2TX)	637000(3555.00 MHz) 641666(3624.99 MHz) 646332(3694.98 MHz)	10 MHz	*BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	*BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		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	PC3 (2TX)	641666(3624.99 MHz)	40 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

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

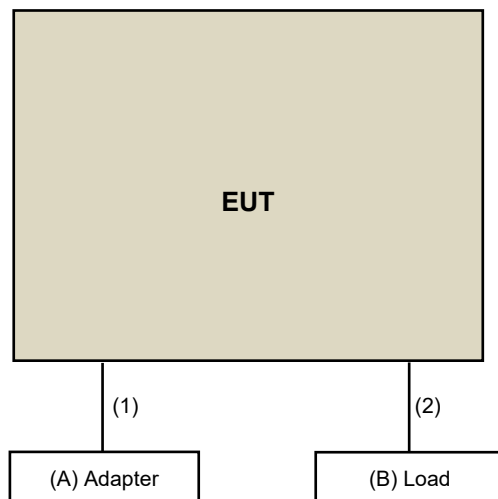
Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	PC3 (2TX)	637000(3555.00 MHz) 641666(3624.99 MHz) 646332(3694.98 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	PC3 (2TX)	637000(3555.00 MHz) 641666(3624.99 MHz) 646332(3694.98 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	PC3 (2TX)	637000(3555.00 MHz) 641666(3624.99 MHz) 646332(3694.98 MHz)	10 MHz	QPSK	1 RB Full RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	QPSK	1 RB Full RB
		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	PC3 (2TX)	646000(3690.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (2TX)	637000(3555.00 MHz) 641666(3624.99 MHz) 646332(3694.98 MHz)	10 MHz	QPSK	1 RB
		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	PC3 (2TX)	638000(3570.00 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	1 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



Remote Site



3.1 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	SUNUN	P181	N/A	N/A	Accessory of EUT
B	Load	N/A	N/A	N/A	N/A	Provided by Lab
C	Radio Communication Analyzer	Anritsu	MT8000A	6272278596	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB Cable	1	1.0	Yes	0	Accessory of EUT
2	RJ45 Cable	1	1.5	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 2026/5/21	2026/5/22 2027/5/20
PXA Signal Analyzer Keysight	N9030B	MY57140953	2025/7/31	2026/7/30
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2025/5/26	2026/5/25

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/4/30 ~ 2026/5/25

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 & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	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 EMCI	EMC 330H	980112	2025/9/21	2026/9/20
	EMC001340	980201	2025/9/21	2026/9/20
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2025/9/21	2026/9/20
Signal & Spectrum Analyzer R&S	FSVA3044	100904	2025/7/1	2026/6/30
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5(Hwaya).
2. Tested Date: 2026/5/29

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2025/11/9	2026/11/8
	BBHA 9170	148	2025/11/9	2026/11/8
MXE EMI Receiver Agilent	N9038A	MY51210203	2025/8/27	2026/8/26
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
	EMC118A45SE	980809	2026/4/18	2027/4/17
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
	EMC104-SM-SM- 8000+3000	171005	2025/9/21	2026/9/20
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2025/9/21	2026/9/20
Signal & Spectrum Analyzer R&S	FSVA3044	100904	2025/7/1	2026/6/30
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5(Hwaya).
2. Tested Date: 2026/5/23

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	2026/6/5	2027/6/4
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
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

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/6/5

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.

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).

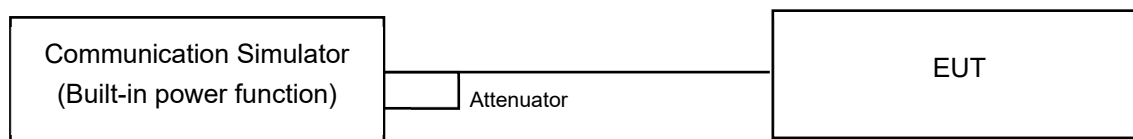
6 Test Arrangements

6.1 Maximum EIRP

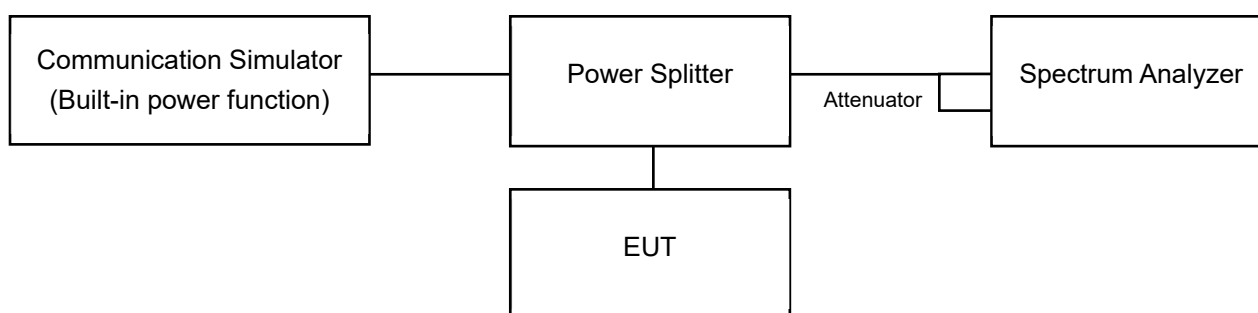
6.1.1 Test Setup

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

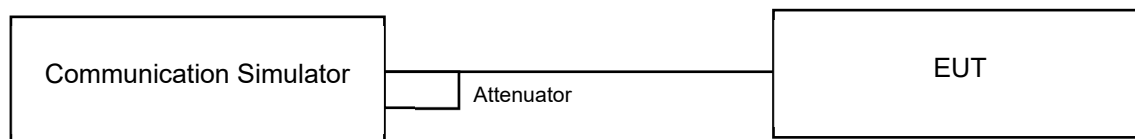
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

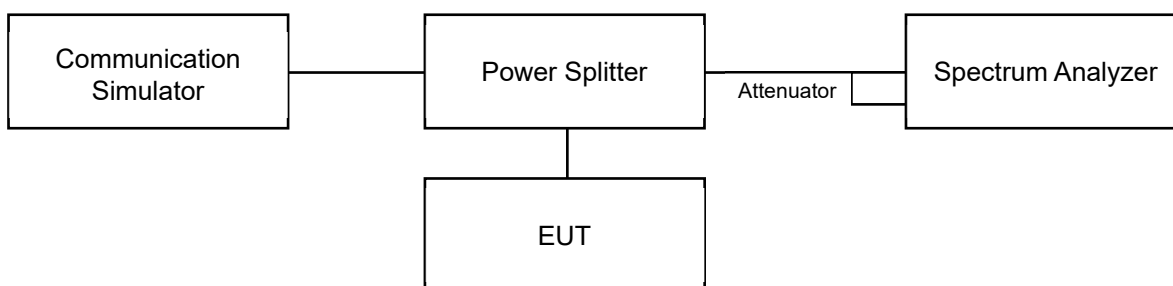


6.2.2 Test Procedure

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

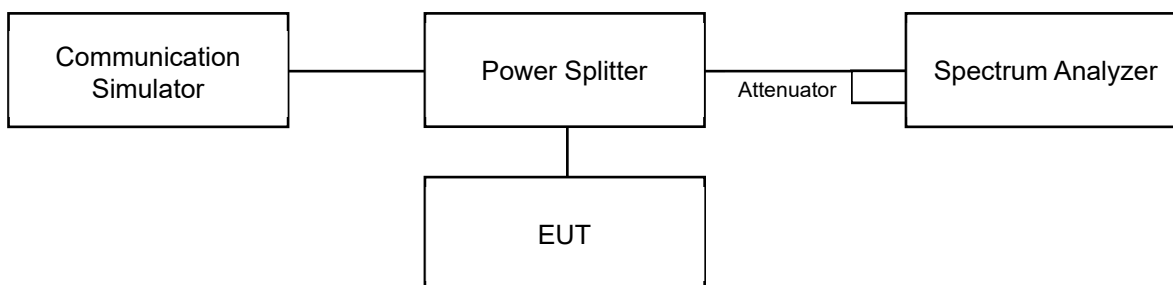


6.3.2 Test Procedure

- 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.

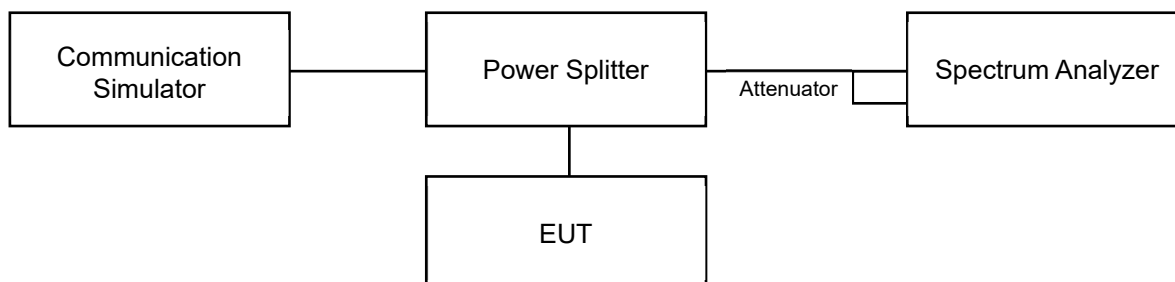
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and 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



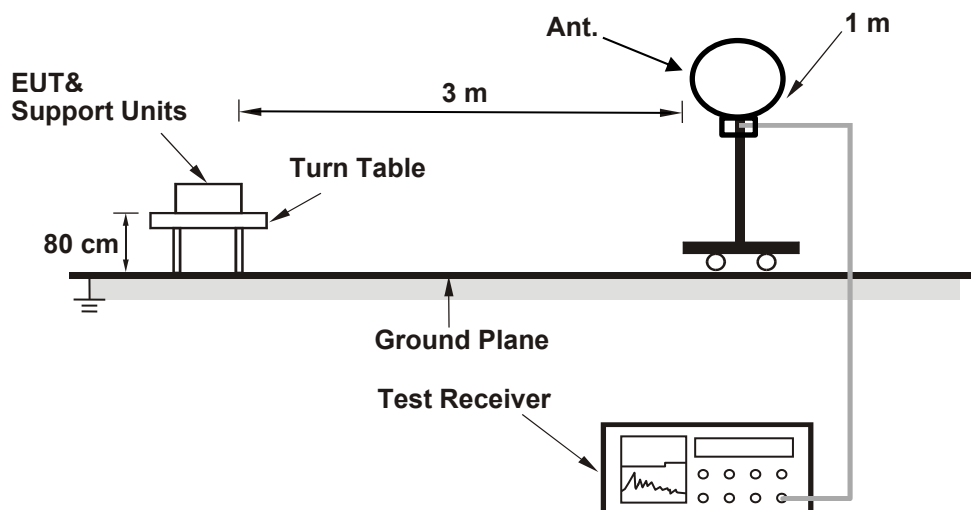
6.5.2 Test Procedure

- Measurement refer to ANSI C63.26 section 5.7.
- All measurements were done at 3 channels: low, middle and high operational frequency range.
- 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.
- The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
- The fundamental frequency below 1 GHz, the spectrum set RBW $\geq$ 100 kHz, VBW $\geq$ 3 x RBW, Detector = Average.
- Measuring frequency band edge, narrow RBW (no less than 1% of the OBW) is used for conducted emission measurement.
- 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.
- The device has MIMO function, so the limit of conducted spurious emissions need to be measurement add $10\log(\text{NumbersANT})$ according to FCC KDB 662911 D01 guidance. Therefore, the $10\log(\text{NumbersANT})$ 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).
- Record the maximum power value test plot.

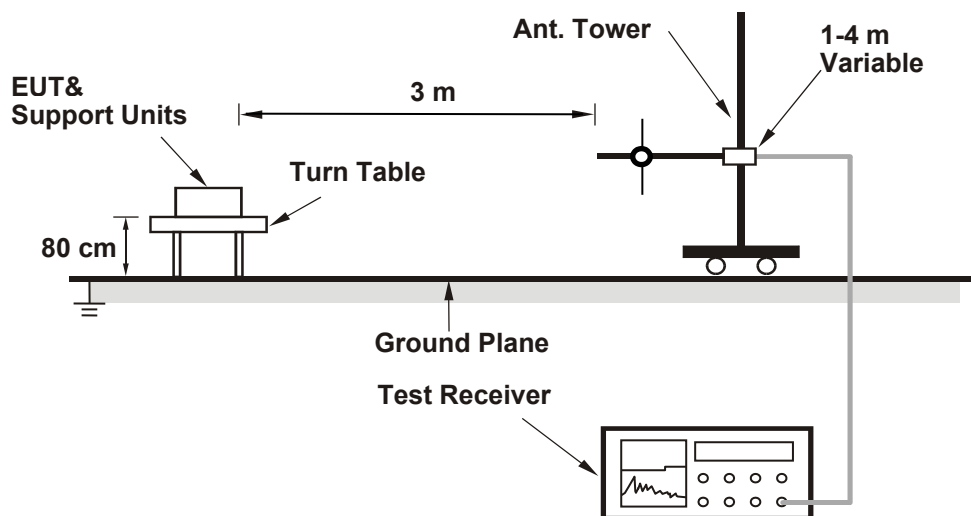
6.6 Radiated Spurious Emissions below 1GHz

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.

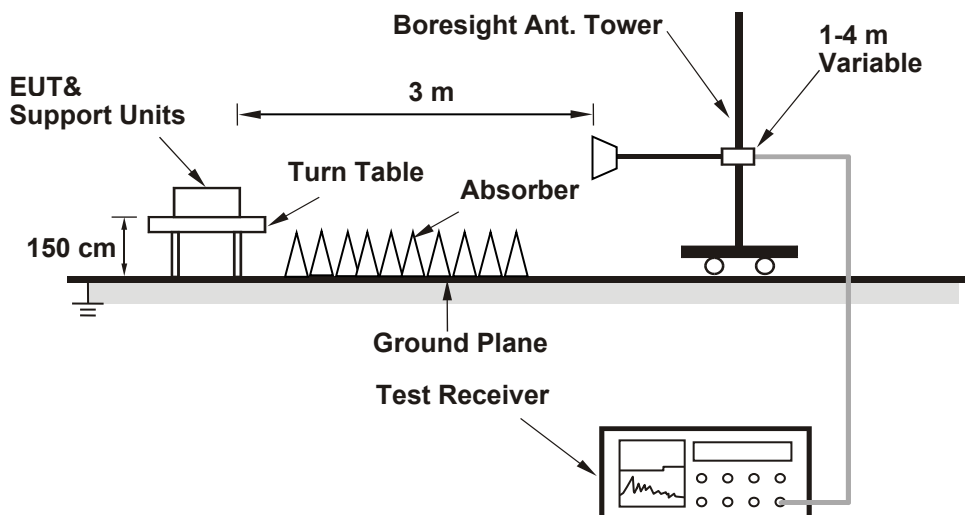
Note:

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

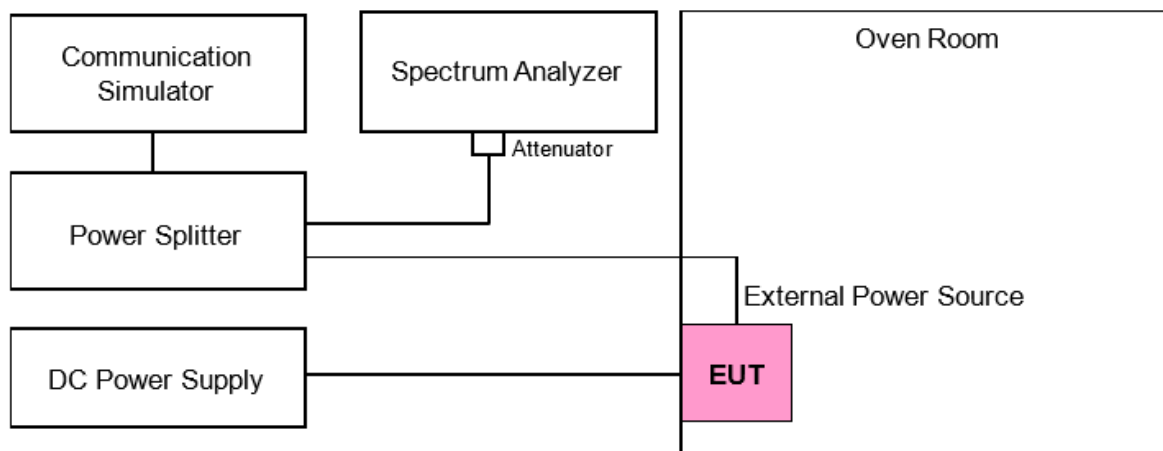
The EUT is configured to set data modulation and maximum power using WWAN technology.

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

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

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637000	CH 641666	CH 646332
			3555 MHz	3624.99 MHz	3694.98 MHz
BPSK	1	1	19.01	18.98	18.85
	1	0	19.54	19.74	19.58
QPSK	1	1	18.90	19.14	18.77
	1	0	18.97	19.11	18.97
	1	11	18.92	19.29	19.04
	1	22	19.11	19.18	19.02
	1	23	19.14	19.38	19.08
	12	0	15.71	15.76	15.76
	12	6	18.95	19.45	19.08
	12	12	15.82	15.99	15.61
	24	0	15.68	15.69	15.70
16QAM	1	0	16.79	17.21	16.67
64QAM	1	0	17.13	17.47	17.20
256QAM	1	0	14.31	14.40	14.16

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	18.85	19.74	19.82	20.71	23
QPSK	15.61	19.45	16.58	20.42	23
16QAM	16.67	17.21	17.64	18.18	23
64QAM	17.13	17.47	18.10	18.44	23
256QAM	14.16	14.40	15.13	15.37	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: 15 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	1	19.01	18.98	18.84
	1	0	19.50	19.85	19.55
QPSK	1	1	18.72	19.23	18.64
	1	0	18.99	19.22	18.74
	1	19	19.10	19.35	18.86
	1	36	19.04	19.23	19.21
	1	37	19.06	19.24	19.11
	18	0	15.65	15.77	15.50
	18	10	19.19	19.34	18.84
	18	20	15.72	15.90	15.57
	36	0	15.70	15.77	15.50
	38	0	17.86	17.87	17.59
16QAM	1	0	16.82	17.19	16.67
64QAM	1	0	17.06	17.37	17.03
256QAM	1	0	14.31	14.40	14.15

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	18.84	19.85	19.81	20.82	23
QPSK	15.50	19.35	16.47	20.32	23
16QAM	16.67	17.19	17.64	18.16	23
64QAM	17.03	17.37	18.00	18.34	23
256QAM	14.15	14.40	15.12	15.37	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: 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	18.91	19.20	18.86
	1	0	19.45	19.84	19.50
QPSK	1	1	18.73	19.21	18.70
	1	0	19.02	19.09	18.71
	1	26	19.15	19.19	18.85
	1	49	19.06	19.25	19.02
	1	50	18.98	19.23	19.14
	25	0	15.80	15.67	15.69
	25	13	18.98	19.23	19.19
	25	26	15.76	15.75	15.60
	50	0	15.63	15.80	15.48
	51	0	17.62	17.90	17.87
16QAM	1	0	16.76	17.02	16.84
64QAM	1	0	17.29	17.51	17.21
256QAM	1	0	14.32	14.57	14.00

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	18.86	19.84	19.83	20.81	23
QPSK	15.48	19.25	16.45	20.22	23
16QAM	16.76	17.02	17.73	17.99	23
64QAM	17.21	17.51	18.18	18.48	23
256QAM	14.00	14.57	14.97	15.54	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	19.01	19.07	18.91
	1	0	19.61	19.83	19.60
QPSK	1	1	18.81	19.15	18.85
	1	0	18.77	19.26	18.83
	1	39	19.01	19.26	18.96
	1	76	19.22	19.07	19.12
	1	77	19.03	19.14	19.00
	36	0	15.81	15.92	15.57
	36	21	19.01	19.11	18.92
	36	42	15.61	15.73	15.73
	75	0	15.63	15.81	15.52
	78	0	17.71	17.72	17.52
16QAM	1	0	16.78	17.11	16.80
64QAM	1	0	17.07	17.58	17.13
256QAM	1	0	14.26	14.39	14.06

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	18.91	19.83	19.88	20.80	23
QPSK	15.52	19.26	16.49	20.23	23
16QAM	16.78	17.11	17.75	18.08	23
64QAM	17.07	17.58	18.04	18.55	23
256QAM	14.06	14.39	15.03	15.36	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	19.12	19.42	19.08
	1	0	19.66	19.99	19.84
QPSK	1	1	18.99	19.35	18.94
	1	0	19.17	19.41	18.98
	1	53	19.25	19.48	19.33
	1	104	19.36	19.47	19.49
	1	105	19.35	19.46	19.24
	50	0	15.98	16.08	15.87
	50	28	19.32	19.54	19.24
	50	56	16.03	16.10	16.00
	100	0	15.79	16.10	15.95
	106	0	17.96	18.16	17.89
16QAM	1	0	17.09	17.29	17.12
64QAM	1	0	17.42	17.54	17.27
256QAM	1	0	14.54	14.83	14.37

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	19.08	19.99	20.05	20.96	23
QPSK	15.79	19.54	16.76	20.51	23
16QAM	17.09	17.29	18.06	18.26	23
64QAM	17.27	17.54	18.24	18.51	23
256QAM	14.37	14.83	15.34	15.80	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: 15 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	1	18.95	18.93	18.72
	1	0	19.48	19.78	19.46
QPSK	1	1	18.72	19.18	18.56
	1	0	18.89	19.13	18.65
	1	19	19.10	19.26	18.71
	1	36	19.03	19.22	19.20
	1	37	18.95	19.20	19.05
	18	0	15.54	15.72	15.37
	18	10	19.07	19.31	18.76
	18	20	15.72	15.76	15.47
	36	0	13.14	13.23	12.90
	38	0	15.34	15.26	15.04
16QAM	1	0	16.79	17.11	16.58
64QAM	1	0	16.99	17.37	16.90
256QAM	1	0	14.21	14.29	14.13

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	18.72	19.78	19.69	20.75	23
QPSK	12.90	19.31	13.87	20.28	23
16QAM	16.58	17.11	17.55	18.08	23
64QAM	16.90	17.37	17.87	18.34	23
256QAM	14.13	14.29	15.10	15.26	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	18.85	19.15	18.86
	1	0	19.39	19.75	19.43
QPSK	1	1	18.58	19.09	18.70
	1	0	19.02	18.94	18.60
	1	26	19.08	19.18	18.83
	1	49	18.98	19.11	18.92
	1	50	18.98	19.23	19.08
	25	0	15.70	15.53	15.54
	25	13	18.87	19.16	19.12
	25	26	15.75	15.63	15.55
	50	0	12.13	12.25	11.96
	51	0	14.06	14.26	14.26
16QAM	1	0	16.74	16.93	16.75
64QAM	1	0	17.26	17.42	17.21
256QAM	1	0	14.25	14.48	13.87

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	18.85	19.75	19.82	20.72	23
QPSK	11.96	19.23	12.93	20.20	23
16QAM	16.74	16.93	17.71	17.90	23
64QAM	17.21	17.42	18.18	18.39	23
256QAM	13.87	14.48	14.84	15.45	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	18.86	19.03	18.89
	1	0	19.54	19.74	19.57
QPSK	1	1	18.78	19.00	18.80
	1	0	18.68	19.24	18.79
	1	39	18.99	19.20	18.93
	1	76	19.09	18.95	19.06
	1	77	18.91	18.99	18.96
	36	0	15.81	15.90	15.43
	36	21	18.96	19.00	18.84
	36	42	15.50	15.72	15.72
	75	0	11.58	11.81	11.50
	78	0	13.66	13.58	13.41
16QAM	1	0	16.63	17.01	16.80
64QAM	1	0	17.05	17.56	17.07
256QAM	1	0	14.24	14.39	13.96

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	18.86	19.74	19.83	20.71	23
QPSK	11.50	19.24	12.47	20.21	23
16QAM	16.63	17.01	17.60	17.98	23
64QAM	17.05	17.56	18.02	18.53	23
256QAM	13.96	14.39	14.93	15.36	23

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

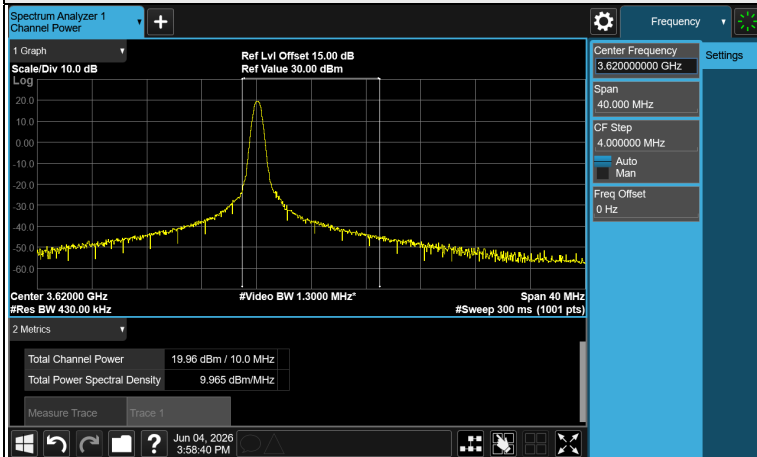
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 40 MHz, Output Power: dBm/10 MHz

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	18.98	19.40	18.98
	1	0	19.57	19.96	19.80
QPSK	1	1	18.90	19.29	18.86
	1	0	19.04	19.35	18.98
	1	53	19.23	19.47	19.31
	1	104	19.21	19.41	19.49
	1	105	19.26	19.34	19.24
	50	0	15.94	15.96	15.79
	50	28	19.30	19.50	19.18
	50	56	16.02	15.98	15.99
	100	0	9.69	10.03	9.81
	106	0	11.86	12.14	11.77
16QAM	1	0	16.96	17.25	17.04
64QAM	1	0	17.28	17.42	17.24
256QAM	1	0	14.48	14.72	14.29

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	18.98	19.96	19.95	20.93	23
QPSK	9.69	19.50	10.66	20.47	23
16QAM	16.96	17.25	17.93	18.22	23
64QAM	17.24	17.42	18.21	18.39	23
256QAM	14.29	14.72	15.26	15.69	23

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

Spectrum Plot of Worst Value



QPSK CH 641666 (3624.99 MHz)

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

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

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637000			CH 641666			CH 646332		
			3555 MHz			3624.99 MHz			3694.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	18.30	18.86	21.60	18.26	18.81	21.55	18.27	18.82	21.56
	1	0	16.06	17.01	19.57	15.98	17.00	19.53	15.99	16.98	19.52
	1	11	17.74	18.42	21.10	17.70	18.49	21.12	17.66	18.47	21.09
	1	22	17.81	18.68	21.28	17.83	18.70	21.30	17.77	18.65	21.24
	1	23	16.35	16.80	19.59	16.30	16.76	19.55	16.31	16.86	19.60
	12	0	16.41	17.05	19.75	16.41	16.94	19.69	16.49	16.94	19.73
	12	6	17.81	18.59	21.23	17.90	18.51	21.23	17.83	18.47	21.17
	12	12	16.49	17.01	19.77	16.44	16.89	19.68	16.50	16.91	19.72
	24	0	16.62	17.09	19.87	16.66	17.09	19.89	16.68	17.09	19.90
16QAM	1	0	16.63	16.85	19.75	16.77	16.77	19.78	16.67	16.75	19.72
64QAM	1	0	16.34	16.42	19.39	16.35	16.43	19.40	16.35	16.37	19.37
256QAM	1	0	13.78	13.91	16.86	13.79	13.88	16.85	13.70	13.83	16.78

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.52	21.60	20.49	22.57	23
16QAM	19.72	19.78	20.69	20.75	23
64QAM	16.34	19.40	17.31	20.37	23
256QAM	16.78	16.86	17.75	17.83	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), MIMO, Channel Bandwidth: 15 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637168			CH 641666			CH 646166		
			3557.52 MHz			3624.99 MHz			3692.49 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	18.26	18.82	21.56	18.31	18.78	21.56	18.22	18.83	21.55
	1	0	16.12	17.00	19.59	16.01	16.94	19.51	16.02	16.95	19.52
	1	19	17.72	18.46	21.12	17.81	18.52	21.19	17.69	18.47	21.11
	1	36	17.80	18.68	21.27	17.82	18.65	21.27	17.78	18.60	21.22
	1	37	16.36	16.78	19.59	16.43	16.76	19.61	16.31	16.78	19.56
	18	0	16.45	16.93	19.71	16.50	16.98	19.76	16.51	17.03	19.79
	18	10	17.86	18.44	21.17	17.87	18.55	21.23	17.90	18.57	21.26
	18	20	16.49	16.95	19.74	16.58	17.01	19.81	16.44	16.88	19.68
	36	0	16.69	16.94	19.83	16.56	16.96	19.77	16.60	17.01	19.82
16QAM	1	0	16.71	16.77	19.75	16.62	16.80	19.72	16.77	16.83	19.81
64QAM	1	0	16.27	16.48	19.39	16.33	16.44	19.40	16.27	16.45	19.37
256QAM	1	0	13.69	13.86	16.79	13.81	13.83	16.83	13.72	13.91	16.83

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.51	21.56	20.48	22.53	23
16QAM	19.72	19.81	20.69	20.78	23
64QAM	19.37	19.40	20.34	20.37	23
256QAM	16.79	16.83	17.76	17.80	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: 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	18.21	18.83	21.54	18.21	18.83	21.54	18.31	18.78	21.56
	1	0	15.98	16.92	19.49	15.98	16.92	19.49	16.10	16.94	19.55
	1	26	17.78	18.47	21.15	17.78	18.47	21.15	17.71	18.50	21.13
	1	49	17.73	18.61	21.20	17.73	18.61	21.20	17.76	18.70	21.27
	1	50	16.43	16.80	19.63	16.43	16.80	19.63	16.34	16.74	19.55
	25	0	16.44	17.05	19.77	16.44	17.05	19.77	16.47	17.02	19.76
	25	13	17.80	18.54	21.20	17.80	18.54	21.20	17.82	18.49	21.18
	25	26	16.58	16.87	19.74	16.58	16.87	19.74	16.58	17.00	19.81
	50	0	16.62	17.09	19.87	16.62	17.09	19.87	16.56	16.99	19.79
16QAM	1	0	16.66	16.78	19.73	16.66	16.78	19.73	16.63	16.75	19.70
64QAM	1	0	16.37	16.42	19.41	16.35	16.38	19.38	16.30	16.48	19.40
256QAM	1	0	13.69	13.83	16.77	13.69	13.83	16.77	13.78	13.87	16.84

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.49	21.56	20.46	22.53	23
16QAM	19.70	19.73	20.67	20.70	23
64QAM	19.38	19.41	20.35	20.38	23
256QAM	16.77	16.84	17.74	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: 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	18.29	18.82	21.57	18.36	18.83	21.61	18.32	18.81	21.58
	1	0	16.01	16.98	19.53	16.03	16.94	19.52	15.98	16.95	19.50
	1	39	17.70	18.52	21.14	17.68	18.43	21.08	17.78	18.50	21.17
	1	76	17.86	18.58	21.25	17.87	18.71	21.32	17.78	18.60	21.22
	1	77	16.37	16.76	19.58	16.41	16.72	19.58	16.44	16.80	19.63
	36	0	16.50	17.00	19.77	16.37	16.96	19.69	16.50	17.03	19.78
	36	21	17.88	18.55	21.24	17.81	18.50	21.18	17.84	18.54	21.21
	36	42	16.55	16.97	19.78	16.56	16.86	19.72	16.55	16.92	19.75
	75	0	16.62	17.03	19.84	16.60	17.07	19.85	16.66	17.00	19.84
16QAM	1	0	16.74	16.81	19.79	16.67	16.81	19.75	16.66	16.82	19.75
64QAM	1	0	16.33	16.39	19.37	16.37	16.42	19.41	16.31	16.47	19.40
256QAM	1	0	13.70	13.89	16.81	13.79	13.82	16.82	13.80	13.83	16.83

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.50	21.61	20.47	22.58	23
16QAM	19.75	19.79	20.72	20.76	23
64QAM	19.37	19.41	20.34	20.38	23
256QAM	16.81	16.83	17.78	17.80	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	18.27	18.71	21.51	18.36	18.86	21.63	18.35	18.75	21.56
	1	0	16.10	16.96	19.56	16.12	17.05	19.62	16.04	17.04	19.58
	1	53	17.66	18.42	21.07	17.81	18.56	21.21	17.68	18.48	21.11
	1	104	17.75	18.63	21.22	17.88	18.72	21.33	17.80	18.69	21.28
	1	105	16.37	16.84	19.62	16.44	16.86	19.67	16.40	16.74	19.58
	50	0	16.44	16.97	19.72	16.51	17.07	19.81	16.49	17.03	19.78
	50	28	17.85	18.55	21.22	17.95	18.59	21.29	17.83	18.50	21.19
	50	56	16.57	16.98	19.79	16.58	17.01	19.81	16.50	16.88	19.70
	100	0	16.62	17.00	19.82	16.70	17.09	19.91	16.69	17.05	19.88
16QAM	1	0	16.63	16.71	19.68	16.77	16.86	19.83	16.67	16.82	19.76
64QAM	1	0	16.42	16.45	19.45	16.44	16.45	19.46	16.32	16.52	19.43
256QAM	1	0	13.76	13.94	16.86	13.81	13.94	16.89	13.81	13.87	16.85

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.56	21.63	20.53	22.60	23
16QAM	19.68	19.83	20.65	20.80	23
64QAM	19.43	19.46	20.40	20.43	23
256QAM	16.85	16.89	17.82	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: 15 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637168			CH 641666			CH 646166		
			3557.52 MHz			3624.99 MHz			3692.49 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	18.23	18.79	21.53	18.26	18.74	21.52	18.18	18.77	21.50
	1	0	16.02	16.99	19.54	15.97	16.92	19.48	15.98	16.92	19.49
	1	19	17.7	18.43	21.09	17.71	18.48	21.12	17.63	18.44	21.06
	1	36	17.7	18.6	21.18	17.72	18.64	21.21	17.69	18.57	21.16
	1	37	16.28	16.74	19.53	16.4	16.68	19.55	16.24	16.69	19.48
	18	0	16.33	16.8	19.58	16.38	16.81	19.61	16.41	16.91	19.68
	18	10	17.68	18.26	20.99	17.74	18.43	21.11	17.77	18.39	21.10
	18	20	16.32	16.81	19.58	16.44	16.86	19.67	16.3	16.69	19.51
	36	0	14.23	14.51	17.38	14.13	14.51	17.33	14.2	14.59	17.41
16QAM	1	0	16.61	16.69	19.66	16.54	16.77	19.67	16.68	16.81	19.76
64QAM	1	0	16.26	16.36	19.32	16.22	16.42	19.33	16	16.57	19.30
256QAM	1	0	13.65	13.82	16.75	13.76	13.75	16.77	13.71	13.84	16.79

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	17.33	21.53	18.30	22.50	23
16QAM	19.66	19.76	20.63	20.73	23
64QAM	19.30	19.33	20.27	20.30	23
256QAM	16.75	16.79	17.72	17.76	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	18.15	18.79	21.49	18.14	18.8	21.49	18.22	18.77	21.51
	1	0	15.96	16.84	19.43	15.92	16.91	19.45	16.06	16.88	19.50
	1	26	17.7	18.37	21.06	17.74	18.46	21.13	17.66	18.41	21.06
	1	49	17.7	18.56	21.16	17.63	18.56	21.13	17.67	18.65	21.20
	1	50	16.34	16.72	19.54	16.35	16.75	19.56	16.3	16.69	19.51
	25	0	16.28	16.86	19.59	16.3	16.88	19.61	16.36	16.89	19.64
	25	13	17.67	18.36	21.04	17.62	18.43	21.05	17.69	18.31	21.02
	25	26	16.39	16.74	19.58	16.43	16.69	19.57	16.42	16.88	19.67
	50	0	13.56	14.04	16.82	13.6	14.07	16.85	13.48	13.99	16.75
16QAM	1	0	16.65	16.71	19.69	16.57	16.72	19.66	16.6	16.71	19.67
64QAM	1	0	16.37	16.38	19.39	16.35	16.43	19.40	16.32	16.42	19.38
256QAM	1	0	13.64	13.82	16.74	13.64	13.82	16.74	13.76	13.81	16.80

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	16.75	21.51	17.72	22.48	23
16QAM	19.66	19.69	20.63	20.66	23
64QAM	19.38	19.40	20.35	20.37	23
256QAM	16.74	16.8	17.71	17.77	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), 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	18.25	18.76	21.52	18.35	18.77	21.58	18.22	18.79	21.52
	1	0	15.97	16.97	19.51	16.02	16.93	19.51	15.9	16.94	19.46
	1	39	17.66	18.46	21.09	17.65	18.33	21.01	17.71	18.45	21.11
	1	76	17.78	18.5	21.17	17.82	18.66	21.27	17.72	18.55	21.17
	1	77	16.28	16.73	19.52	16.39	16.67	19.54	16.34	16.71	19.54
	36	0	16.35	16.88	19.63	16.2	16.77	19.50	16.35	16.85	19.62
	36	21	17.69	18.42	21.08	17.62	18.37	21.02	17.69	18.42	21.08
	36	42	16.37	16.81	19.61	16.39	16.74	19.58	16.39	16.76	19.59
	75	0	12.62	13.01	15.83	12.54	13.04	15.81	12.66	12.99	15.84
16QAM	1	0	16.73	16.71	19.73	16.6	16.74	19.68	16.62	16.8	19.72
64QAM	1	0	16.35	16.44	19.41	16.32	16.49	19.42	16.33	16.43	19.39
256QAM	1	0	13.62	13.86	16.75	13.72	13.76	16.75	13.72	13.8	16.77

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	15.81	21.58	16.78	22.55	23
16QAM	19.68	19.73	20.65	20.70	23
64QAM	19.39	19.42	20.36	20.39	23
256QAM	16.75	16.77	17.72	17.74	23

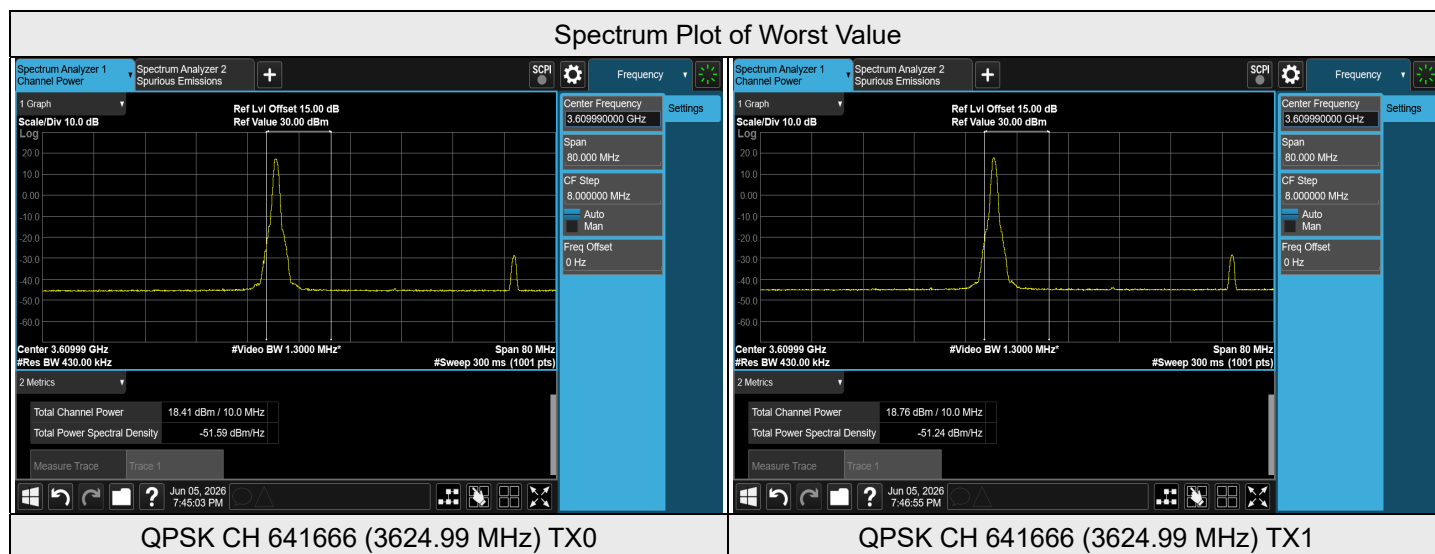
Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

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	18.17	18.62	21.41	18.41	18.76	21.60	18.29	18.65	21.48
	1	0	16.04	16.89	19.50	16.09	17.03	19.60	15.95	17	19.52
	1	53	17.65	18.41	21.06	17.79	18.54	21.19	17.67	18.45	21.09
	1	104	17.71	18.55	21.16	17.85	18.62	21.26	17.76	18.68	21.25
	1	105	16.35	16.78	19.58	16.42	16.76	19.60	16.36	16.71	19.55
	50	0	16.3	16.81	19.57	16.4	16.92	19.68	16.36	16.84	19.62
	50	28	17.73	18.41	21.09	17.85	18.42	21.15	17.66	18.35	21.03
	50	56	16.44	16.8	19.63	16.4	16.86	19.65	16.37	16.69	19.54
	100	0	10.54	10.99	13.78	10.7	11.08	13.90	10.62	10.96	13.80
16QAM	1	0	16.61	16.62	19.63	16.75	16.82	19.80	16.62	16.73	19.69
64QAM	1	0	16.38	16.48	19.44	16.4	16.48	19.45	16.35	16.48	19.43
256QAM	1	0	13.7	13.92	16.82	13.74	13.87	16.82	13.79	13.77	16.79

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	13.78	21.6	14.75	22.57	23
16QAM	19.63	19.8	20.60	20.77	23
64QAM	19.43	19.45	20.40	20.42	23
256QAM	16.79	16.82	17.76	17.79	23

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



7.2 Modulation Characteristics

Environmental Conditions:	24°C, 62% RH	Tested By:	Willy Cheng
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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



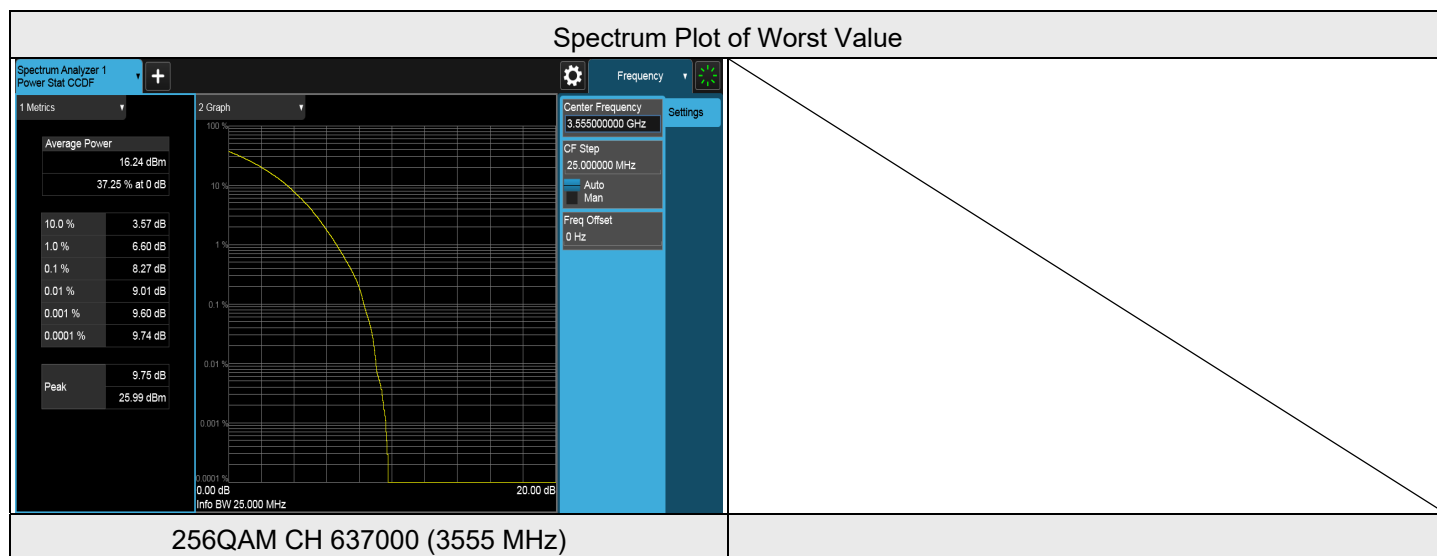
7.3 Peak to Average Ratio

Environmental Conditions:	23°C, 59% RH	Tested By:	Willy Cheng
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7.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

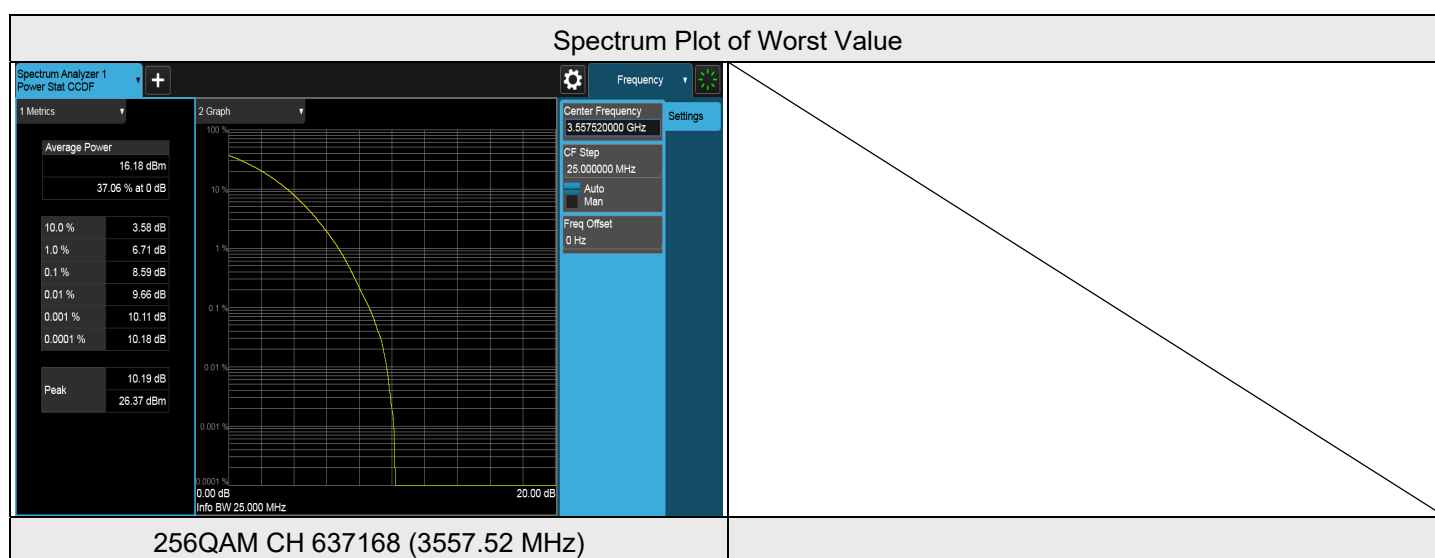
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	637000	3555	7.18	13	PASS
QPSK	641666	3624.99	7.36	13	PASS
QPSK	646332	3694.98	6.86	13	PASS
16QAM	637000	3555	7.14	13	PASS
16QAM	641666	3624.99	7.34	13	PASS
16QAM	646332	3694.98	6.88	13	PASS
64QAM	637000	3555	7.82	13	PASS
64QAM	641666	3624.99	8.04	13	PASS
64QAM	646332	3694.98	7.55	13	PASS
256QAM	637000	3555	8.27	13	PASS
256QAM	641666	3624.99	8.26	13	PASS
256QAM	646332	3694.98	8.27	13	PASS



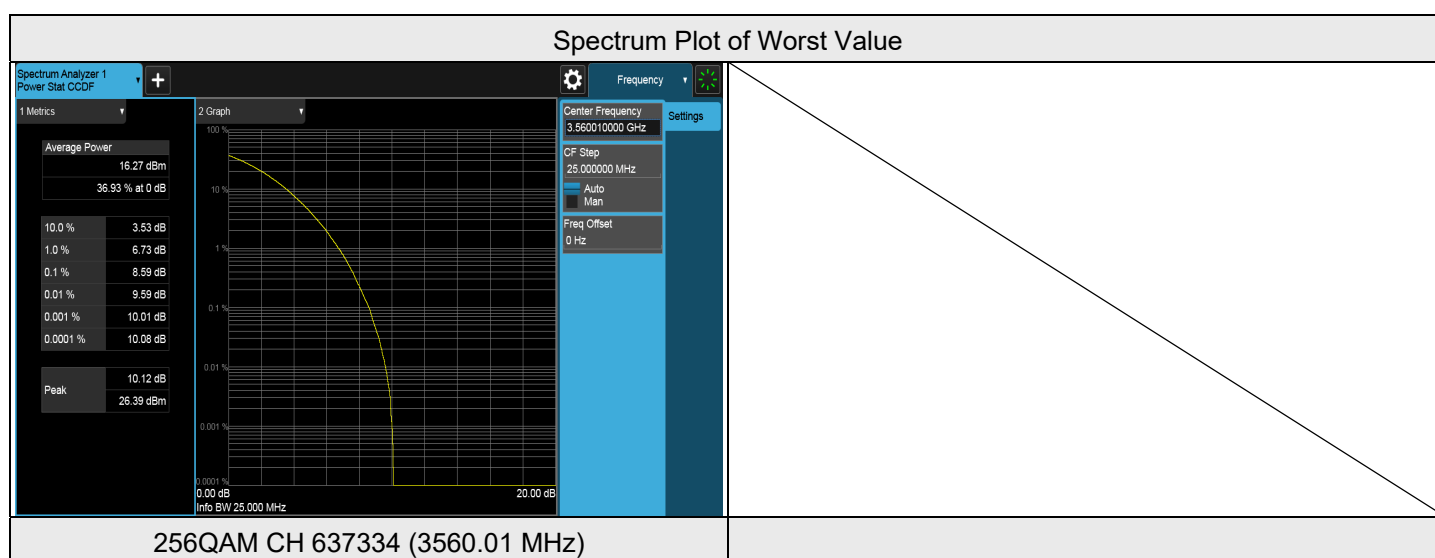
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	637168	3557.52	7.32	13	PASS
QPSK	641666	3624.99	7.58	13	PASS
QPSK	646166	3692.49	7.05	13	PASS
16QAM	637168	3557.52	7.32	13	PASS
16QAM	641666	3624.99	7.57	13	PASS
16QAM	646166	3692.49	7.04	13	PASS
64QAM	637168	3557.52	7.93	13	PASS
64QAM	641666	3624.99	8.12	13	PASS
64QAM	646166	3692.49	7.63	13	PASS
256QAM	637168	3557.52	8.59	13	PASS
256QAM	641666	3624.99	8.49	13	PASS
256QAM	646166	3692.49	8.35	13	PASS



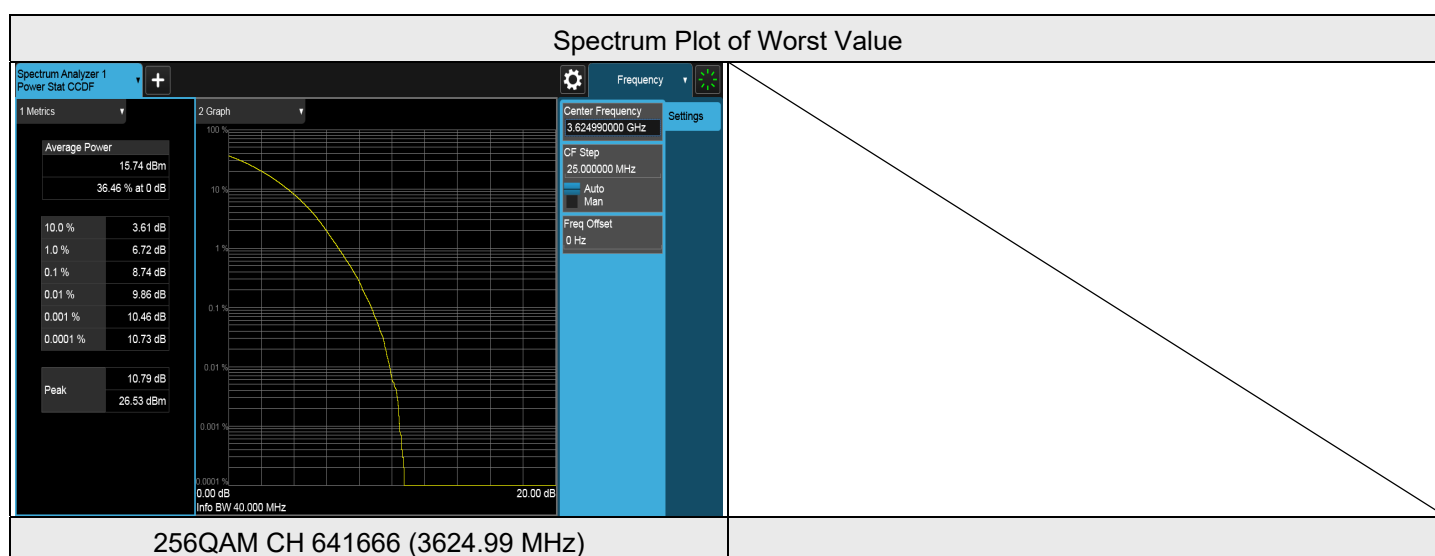
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	637334	3560.01	7.09	13	PASS
QPSK	641666	3624.99	7.32	13	PASS
QPSK	646000	3690	6.87	13	PASS
16QAM	637334	3560.01	7.22	13	PASS
16QAM	641666	3624.99	7.43	13	PASS
16QAM	646000	3690	6.99	13	PASS
64QAM	637334	3560.01	7.74	13	PASS
64QAM	641666	3624.99	7.97	13	PASS
64QAM	646000	3690	7.54	13	PASS
256QAM	637334	3560.01	8.59	13	PASS
256QAM	641666	3624.99	8.56	13	PASS
256QAM	646000	3690	8.53	13	PASS



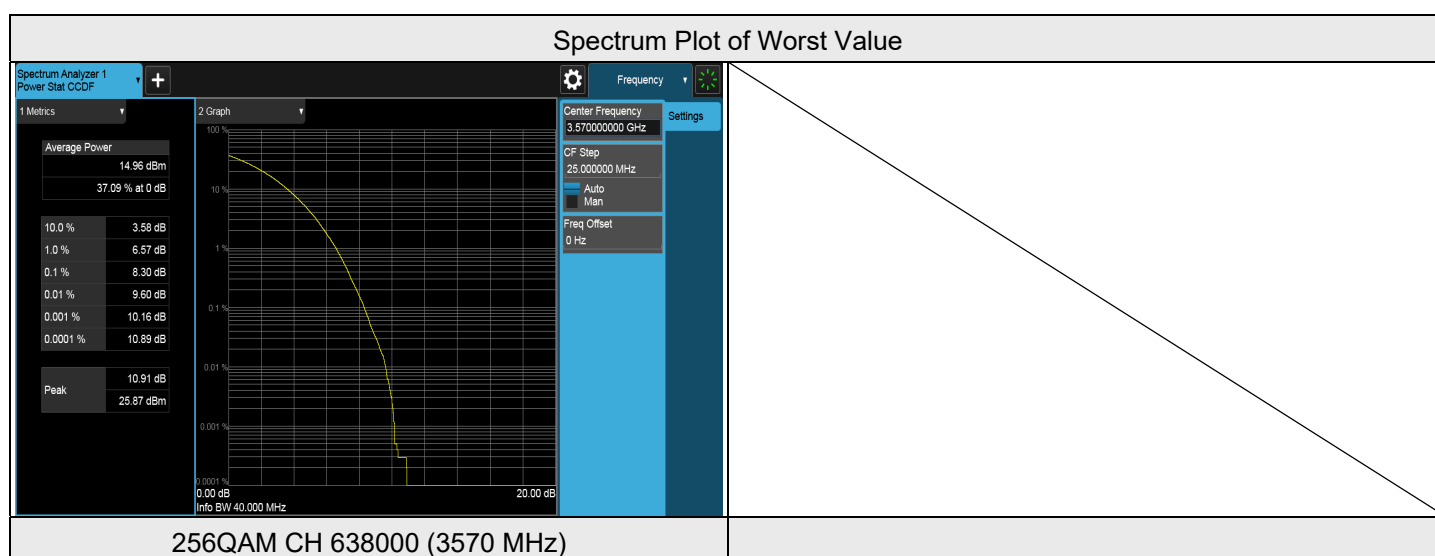
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	637668	3565.02	7.29	13	PASS
QPSK	641666	3624.99	7.55	13	PASS
QPSK	645666	3684.99	7.07	13	PASS
16QAM	637668	3565.02	7.47	13	PASS
16QAM	641666	3624.99	7.71	13	PASS
16QAM	645666	3684.99	7.23	13	PASS
64QAM	637668	3565.02	7.84	13	PASS
64QAM	641666	3624.99	8.01	13	PASS
64QAM	645666	3684.99	7.56	13	PASS
256QAM	637668	3565.02	8.69	13	PASS
256QAM	641666	3624.99	8.74	13	PASS
256QAM	645666	3684.99	8.71	13	PASS



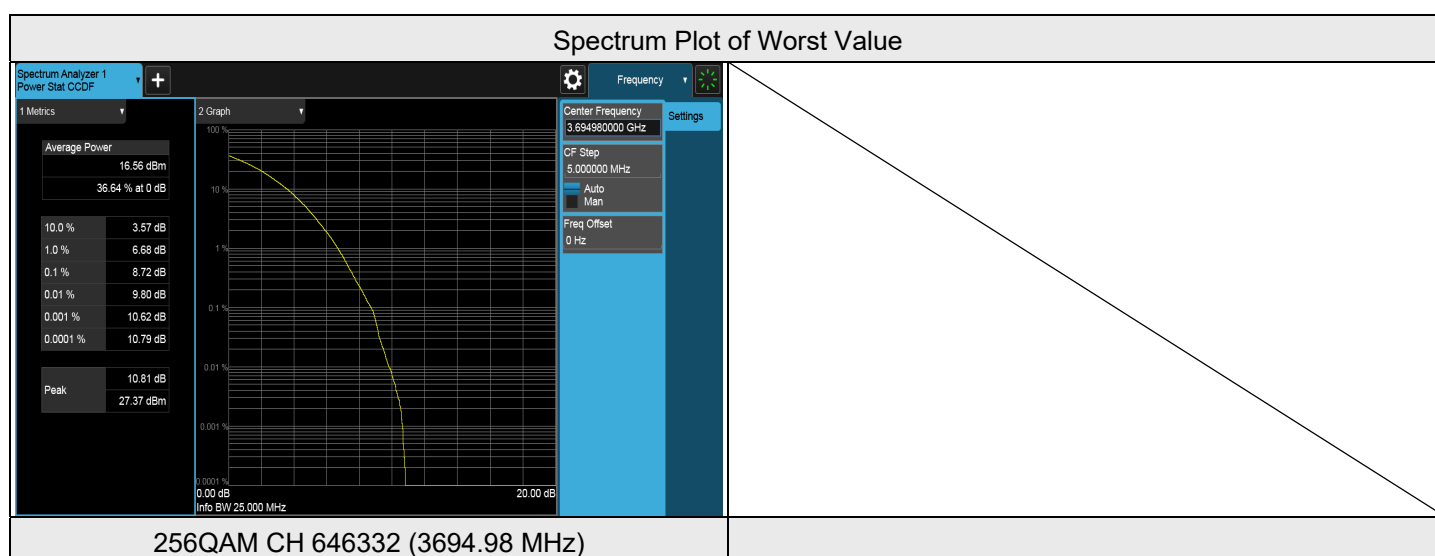
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	638000	3570	7.83	13	PASS
QPSK	641666	3624.99	7.99	13	PASS
QPSK	645332	3679.98	7.73	13	PASS
16QAM	638000	3570	7.94	13	PASS
16QAM	641666	3624.99	8.04	13	PASS
16QAM	645332	3679.98	7.78	13	PASS
64QAM	638000	3570	8.10	13	PASS
64QAM	641666	3624.99	8.21	13	PASS
64QAM	645332	3679.98	7.99	13	PASS
256QAM	638000	3570	8.30	13	PASS
256QAM	641666	3624.99	8.29	13	PASS
256QAM	645332	3679.98	8.27	13	PASS



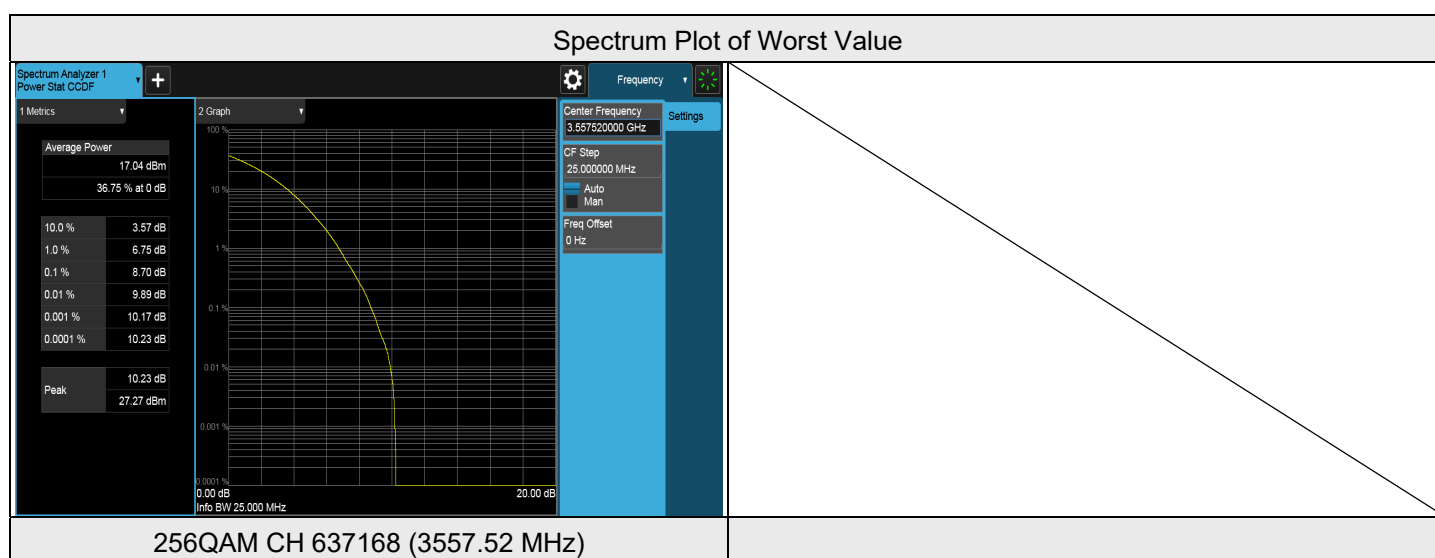
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	637000	3555	8.40	13	PASS
QPSK	641666	3624.99	6.74	13	PASS
QPSK	646332	3694.98	6.95	13	PASS
16QAM	637000	3555	7.26	13	PASS
16QAM	641666	3624.99	6.76	13	PASS
16QAM	646332	3694.98	6.99	13	PASS
64QAM	637000	3555	7.89	13	PASS
64QAM	641666	3624.99	7.47	13	PASS
64QAM	646332	3694.98	7.64	13	PASS
256QAM	637000	3555	8.72	13	PASS
256QAM	641666	3624.99	8.69	13	PASS
256QAM	646332	3694.98	8.72	13	PASS



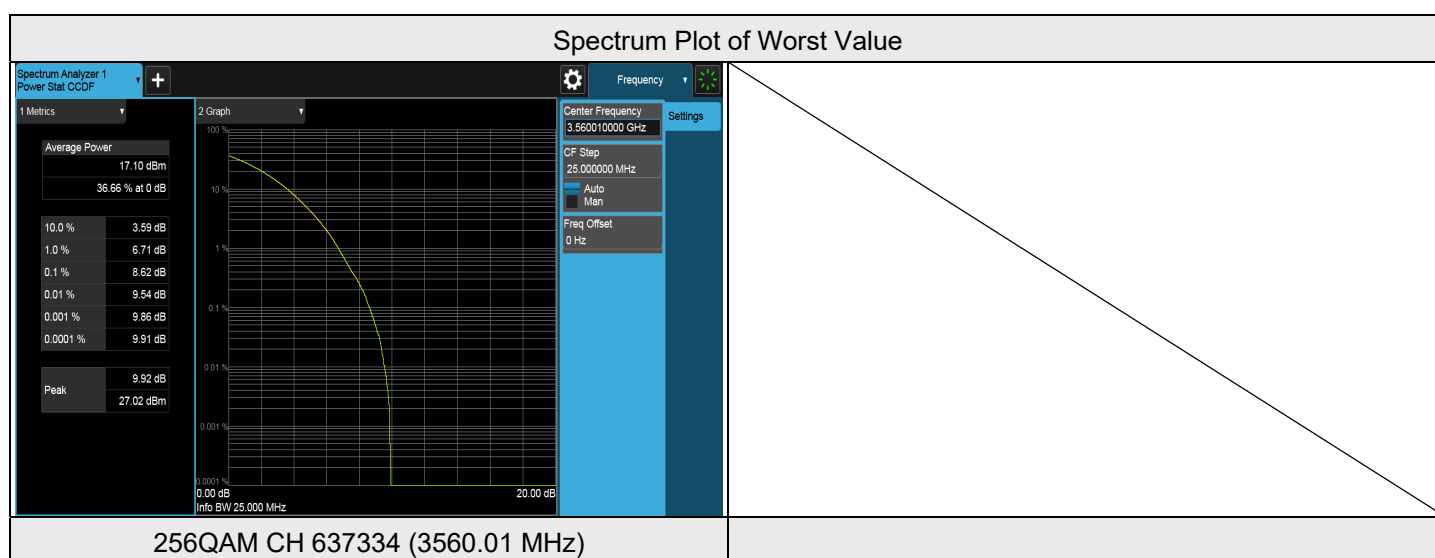
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	637168	3557.52	7.47	13	PASS
QPSK	641666	3624.99	6.95	13	PASS
QPSK	646166	3692.49	7.06	13	PASS
16QAM	637168	3557.52	7.39	13	PASS
16QAM	641666	3624.99	6.92	13	PASS
16QAM	646166	3692.49	7.01	13	PASS
64QAM	637168	3557.52	8.04	13	PASS
64QAM	641666	3624.99	7.57	13	PASS
64QAM	646166	3692.49	7.65	13	PASS
256QAM	637168	3557.52	8.70	13	PASS
256QAM	641666	3624.99	8.57	13	PASS
256QAM	646166	3692.49	8.63	13	PASS



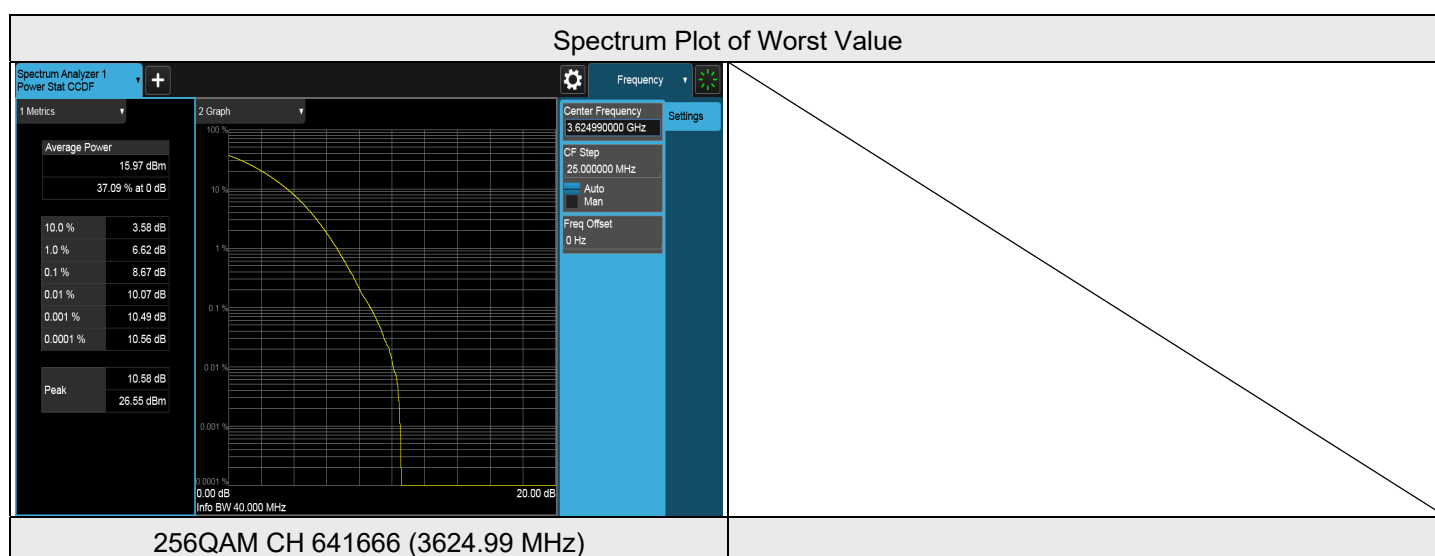
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	637334	3560.01	7.15	13	PASS
QPSK	641666	3624.99	6.78	13	PASS
QPSK	646000	3690	6.94	13	PASS
16QAM	637334	3560.01	7.24	13	PASS
16QAM	641666	3624.99	6.87	13	PASS
16QAM	646000	3690	7.05	13	PASS
64QAM	637334	3560.01	7.78	13	PASS
64QAM	641666	3624.99	7.45	13	PASS
64QAM	646000	3690	7.61	13	PASS
256QAM	637334	3560.01	8.62	13	PASS
256QAM	641666	3624.99	8.57	13	PASS
256QAM	646000	3690	8.58	13	PASS



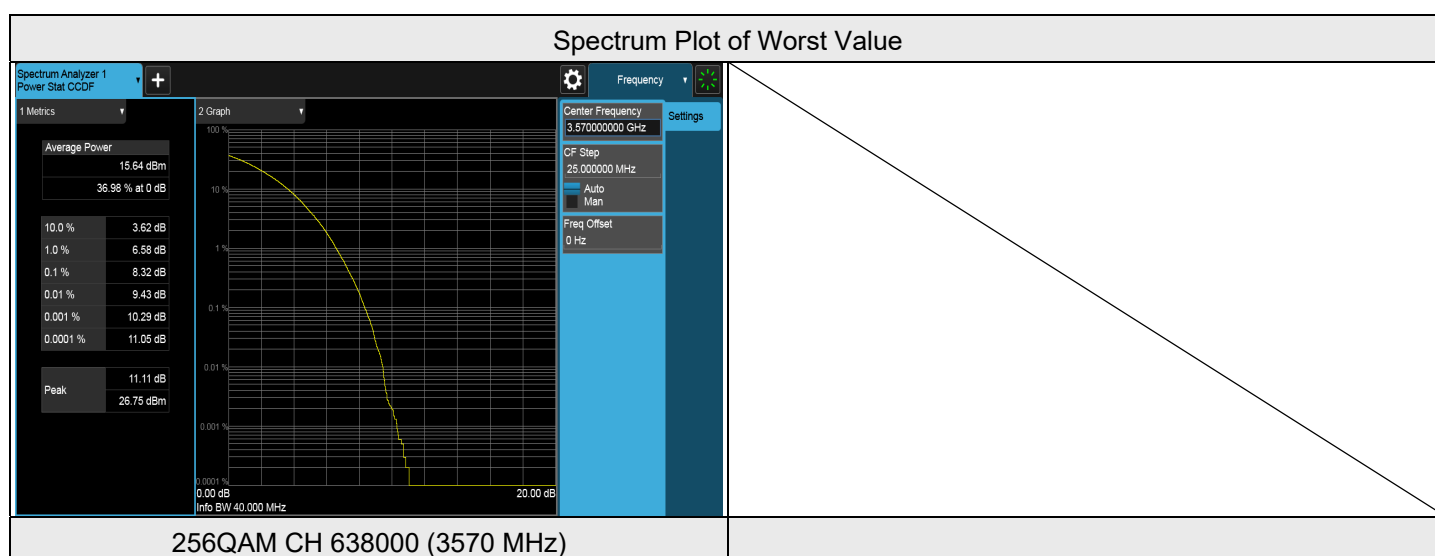
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	637668	3565.02	7.40	13	PASS
QPSK	641666	3624.99	7.09	13	PASS
QPSK	645666	3684.99	7.35	13	PASS
16QAM	637668	3565.02	7.58	13	PASS
16QAM	641666	3624.99	7.26	13	PASS
16QAM	645666	3684.99	7.46	13	PASS
64QAM	637668	3565.02	7.98	13	PASS
64QAM	641666	3624.99	7.65	13	PASS
64QAM	645666	3684.99	7.85	13	PASS
256QAM	637668	3565.02	8.57	13	PASS
256QAM	641666	3624.99	8.67	13	PASS
256QAM	645666	3684.99	8.58	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	7.97	13	PASS
QPSK	641666	3624.99	7.79	13	PASS
QPSK	645332	3679.98	7.92	13	PASS
16QAM	638000	3570	8.09	13	PASS
16QAM	641666	3624.99	7.91	13	PASS
16QAM	645332	3679.98	8.01	13	PASS
64QAM	638000	3570	8.27	13	PASS
64QAM	641666	3624.99	8.10	13	PASS
64QAM	645332	3679.98	8.14	13	PASS
256QAM	638000	3570	8.32	13	PASS
256QAM	641666	3624.99	8.28	13	PASS
256QAM	645332	3679.98	8.24	13	PASS



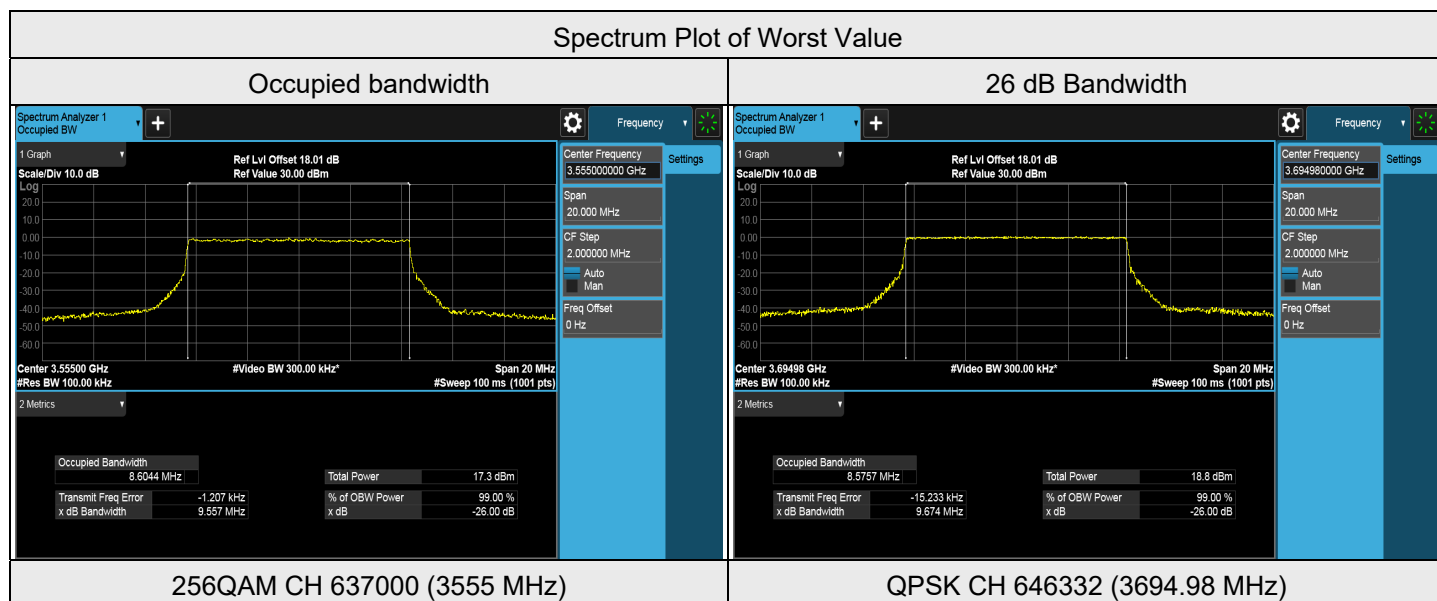
7.4 Bandwidth

Environmental Conditions:	23°C, 59% RH	Tested By:	Willy Cheng
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7.4.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

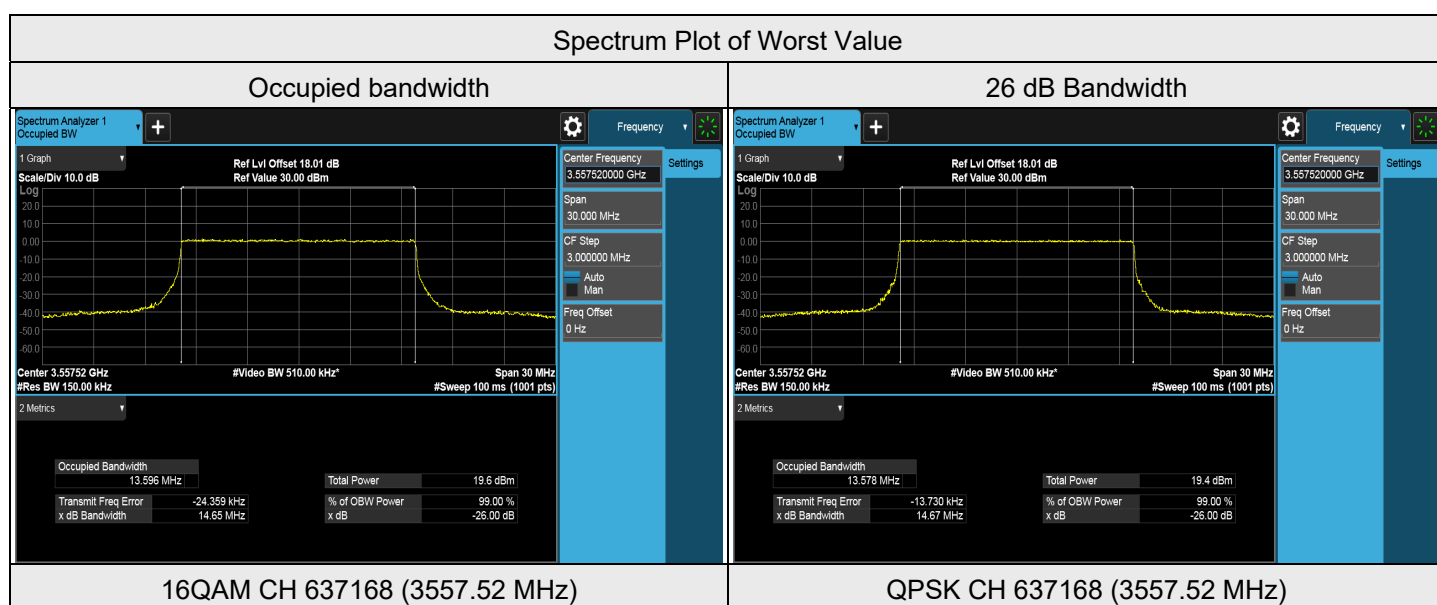
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637000	3555	8.5834	9.479
QPSK	641666	3624.99	8.5791	9.534
QPSK	646332	3694.98	8.5757	9.674
16QAM	637000	3555	8.5998	9.458
16QAM	641666	3624.99	8.5848	9.445
16QAM	646332	3694.98	8.5781	9.419
64QAM	637000	3555	8.5875	9.374
64QAM	641666	3624.99	8.5867	9.294
64QAM	646332	3694.98	8.5784	9.364
256QAM	637000	3555	8.6044	9.557
256QAM	641666	3624.99	8.6024	9.483
256QAM	646332	3694.98	8.5941	9.446



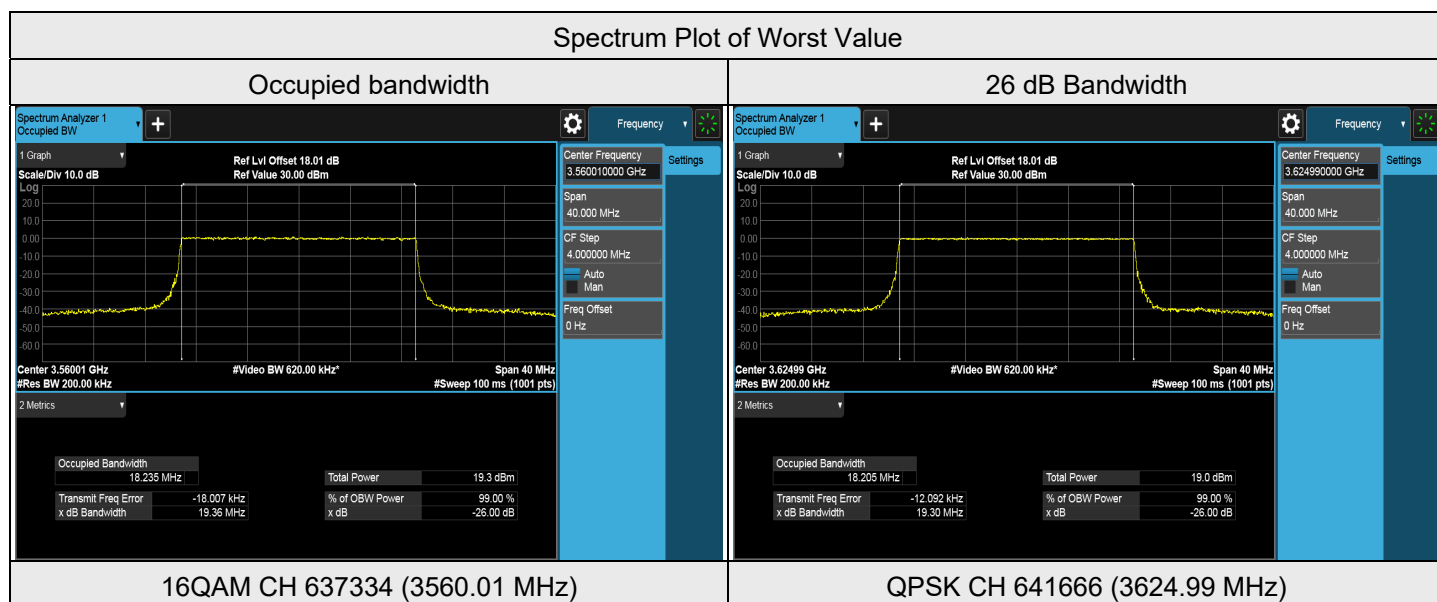
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637168	3557.52	13.5783	14.668
QPSK	641666	3624.99	13.5655	14.392
QPSK	646166	3692.49	13.5641	14.468
16QAM	637168	3557.52	13.5960	14.654
16QAM	641666	3624.99	13.5815	14.662
16QAM	646166	3692.49	13.5889	14.645
64QAM	637168	3557.52	13.5779	14.542
64QAM	641666	3624.99	13.5862	14.623
64QAM	646166	3692.49	13.5775	14.366
256QAM	637168	3557.52	13.5638	14.336
256QAM	641666	3624.99	13.5634	14.410
256QAM	646166	3692.49	13.5651	14.455



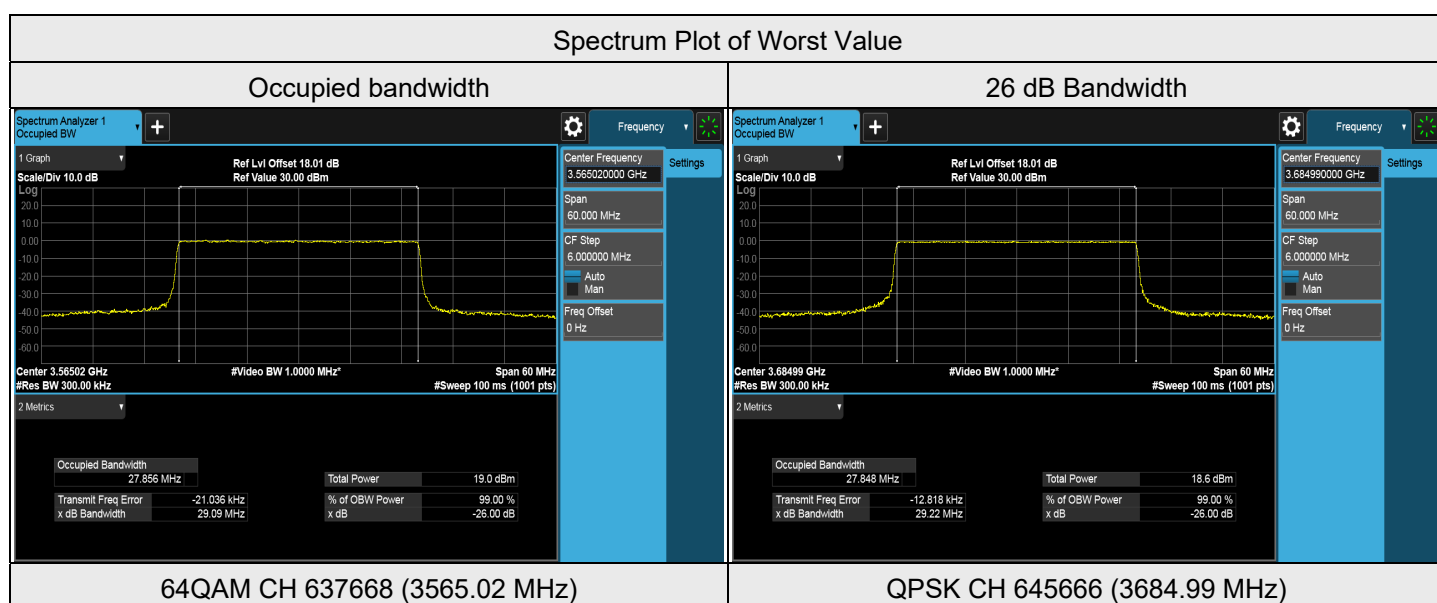
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637334	3560.01	18.2055	19.286
QPSK	641666	3624.99	18.2049	19.302
QPSK	646000	3690	18.2032	19.236
16QAM	637334	3560.01	18.3150	18.745
16QAM	641666	3624.99	18.2289	19.194
16QAM	646000	3690	18.2267	19.234
64QAM	637334	3560.01	18.2354	19.238
64QAM	641666	3624.99	18.2234	19.107
64QAM	646000	3690	18.2294	19.250
256QAM	637334	3560.01	18.2302	19.155
256QAM	641666	3624.99	18.2281	19.180
256QAM	646000	3690	18.2284	19.101



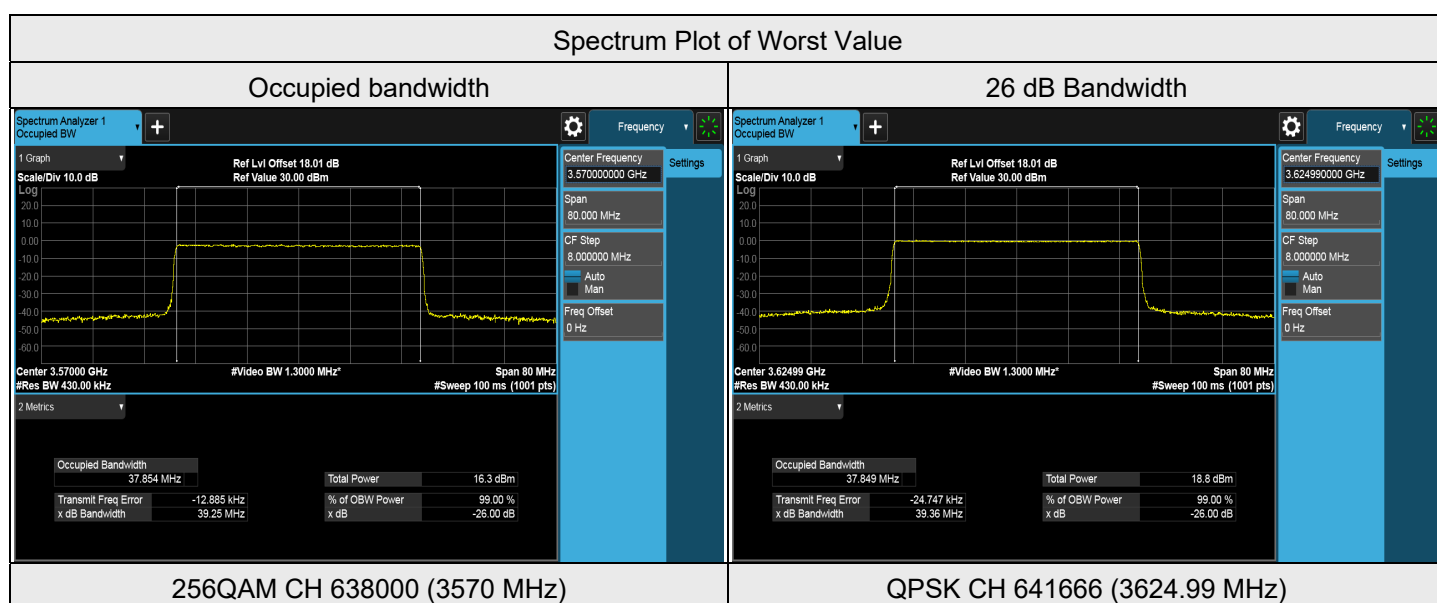
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637668	3565.02	27.8542	29.077
QPSK	641666	3624.99	27.8401	29.111
QPSK	645666	3684.99	27.8478	29.215
16QAM	637668	3565.02	27.8513	29.001
16QAM	641666	3624.99	27.8344	28.928
16QAM	645666	3684.99	27.8355	29.053
64QAM	637668	3565.02	27.8564	29.089
64QAM	641666	3624.99	27.8496	28.996
64QAM	645666	3684.99	27.8450	28.963
256QAM	637668	3565.02	27.8469	29.082
256QAM	641666	3624.99	27.8564	29.065
256QAM	645666	3684.99	27.8564	28.900



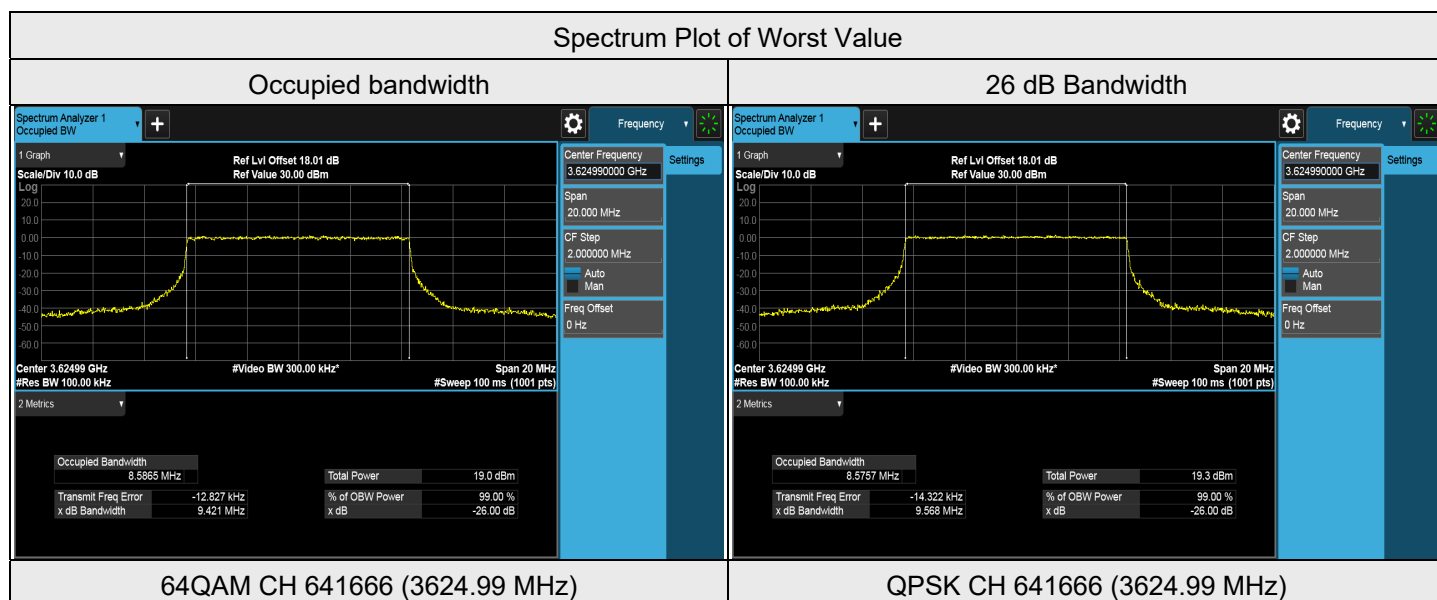
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	638000	3570	37.8461	39.319
QPSK	641666	3624.99	37.8493	39.358
QPSK	645332	3679.98	37.8350	39.331
16QAM	638000	3570	37.8415	39.264
16QAM	641666	3624.99	37.8258	39.274
16QAM	645332	3679.98	37.8398	39.263
64QAM	638000	3570	37.8474	39.296
64QAM	641666	3624.99	37.8269	39.297
64QAM	645332	3679.98	37.8127	39.299
256QAM	638000	3570	37.8536	39.246
256QAM	641666	3624.99	37.8134	39.298
256QAM	645332	3679.98	37.8288	39.277



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 10 MHz

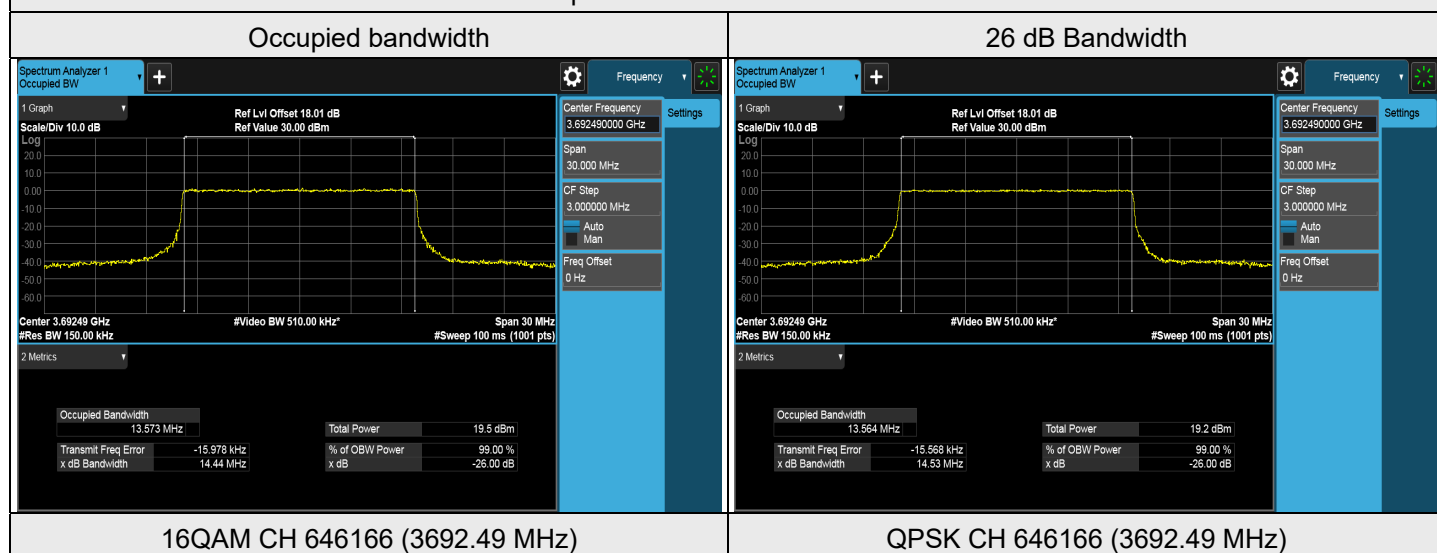
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637000	3555	8.5807	9.532
QPSK	641666	3624.99	8.5757	9.568
QPSK	646332	3694.98	8.5713	9.486
16QAM	637000	3555	8.5776	9.359
16QAM	641666	3624.99	8.5777	9.354
16QAM	646332	3694.98	8.5782	9.463
64QAM	637000	3555	8.5854	9.371
64QAM	641666	3624.99	8.5865	9.421
64QAM	646332	3694.98	8.5764	9.428
256QAM	637000	3555	8.5822	9.527
256QAM	641666	3624.99	8.5755	9.457
256QAM	646332	3694.98	8.5836	9.468



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 15 MHz

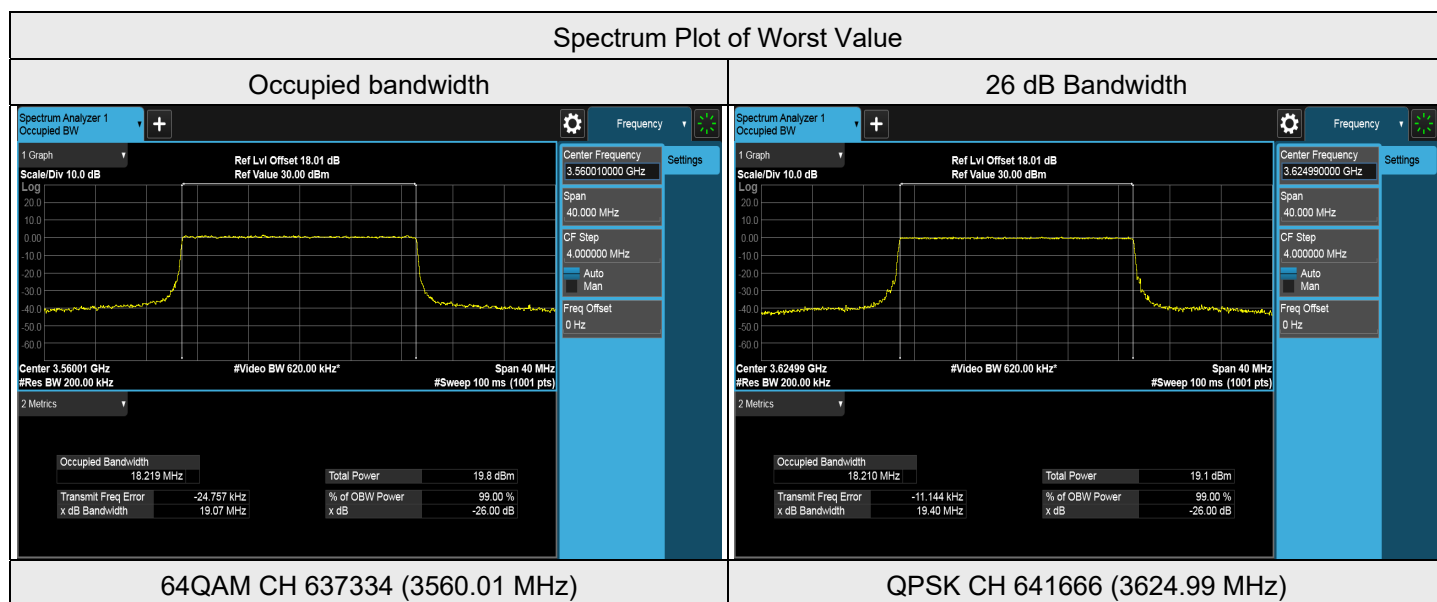
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637168	3557.52	13.5679	14.490
QPSK	641666	3624.99	13.5654	14.487
QPSK	646166	3692.49	13.5643	14.531
16QAM	637168	3557.52	13.5705	14.506
16QAM	641666	3624.99	13.5642	14.458
16QAM	646166	3692.49	13.5733	14.442
64QAM	637168	3557.52	13.5664	14.481
64QAM	641666	3624.99	13.5601	14.325
64QAM	646166	3692.49	13.5702	14.508
256QAM	637168	3557.52	13.5701	14.413
256QAM	641666	3624.99	13.5707	14.330
256QAM	646166	3692.49	13.5634	14.388

Spectrum Plot of Worst Value



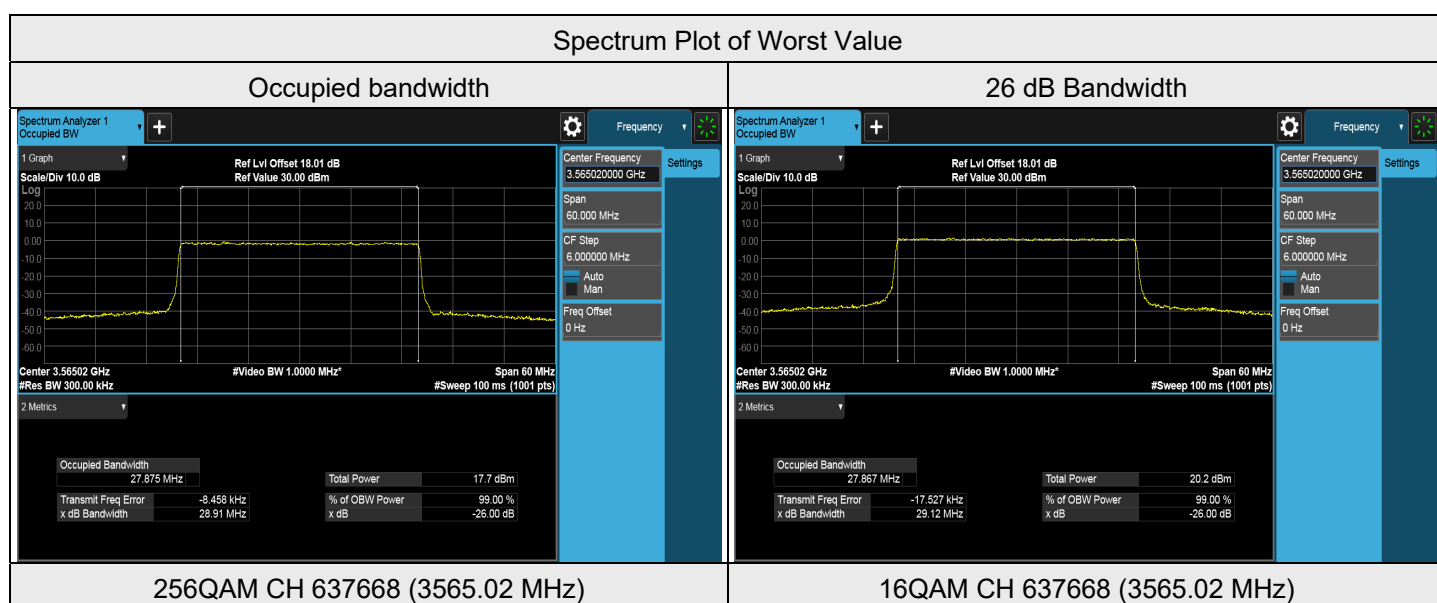
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637334	3560.01	18.2029	19.262
QPSK	641666	3624.99	18.2101	19.400
QPSK	646000	3690	18.2143	19.203
16QAM	637334	3560.01	18.2084	19.300
16QAM	641666	3624.99	18.1970	19.249
16QAM	646000	3690	18.2029	19.173
64QAM	637334	3560.01	18.2188	19.074
64QAM	641666	3624.99	18.2087	19.156
64QAM	646000	3690	18.2139	19.182
256QAM	637334	3560.01	18.2178	19.109
256QAM	641666	3624.99	18.1999	19.006
256QAM	646000	3690	18.2094	19.283



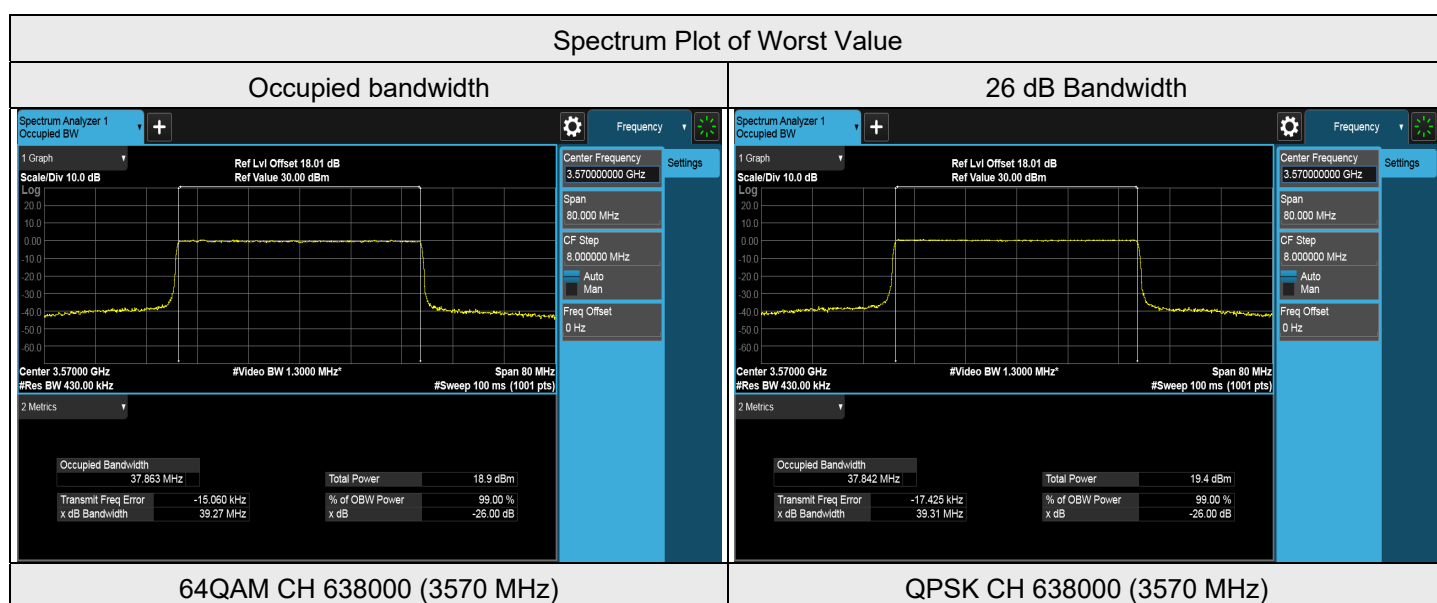
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	637668	3565.02	27.8416	29.094
QPSK	641666	3624.99	27.8451	29.075
QPSK	645666	3684.99	27.8407	29.038
16QAM	637668	3565.02	27.8669	29.123
16QAM	641666	3624.99	27.8506	28.980
16QAM	645666	3684.99	27.8622	29.012
64QAM	637668	3565.02	27.8286	28.932
64QAM	641666	3624.99	27.8361	28.908
64QAM	645666	3684.99	27.8395	28.897
256QAM	637668	3565.02	27.8752	28.913
256QAM	641666	3624.99	27.8733	28.980
256QAM	645666	3684.99	27.8585	28.915



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	37.8415	39.313
QPSK	641666	3624.99	37.8349	39.309
QPSK	645332	3679.98	37.8331	39.299
16QAM	638000	3570	37.8434	39.269
16QAM	641666	3624.99	37.8419	39.274
16QAM	645332	3679.98	37.8294	39.310
64QAM	638000	3570	37.8629	39.267
64QAM	641666	3624.99	37.8493	39.289
64QAM	645332	3679.98	37.8331	39.258
256QAM	638000	3570	37.8238	39.264
256QAM	641666	3624.99	37.8334	39.284
256QAM	645332	3679.98	37.8267	39.237

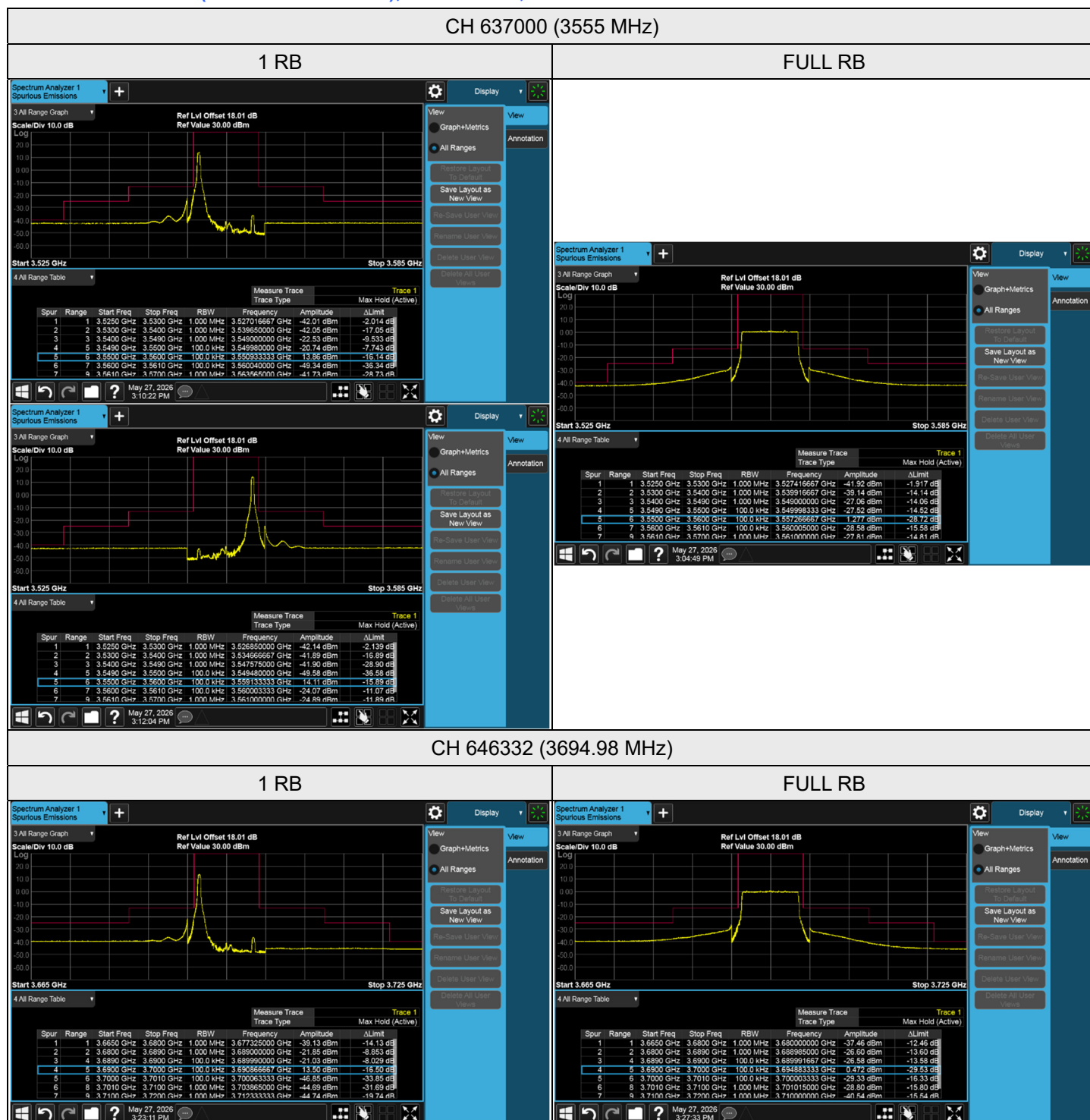


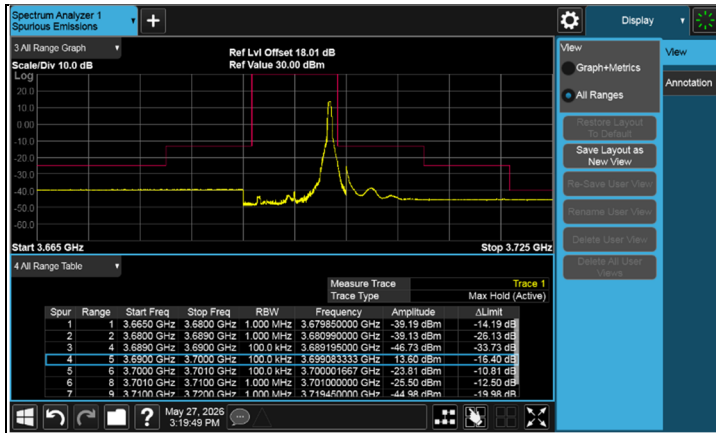
7.5 Conducted Spurious Emissions

Environmental Conditions:	23°C, 59% RH	Tested By:	Willy Cheng
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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: 10 MHz

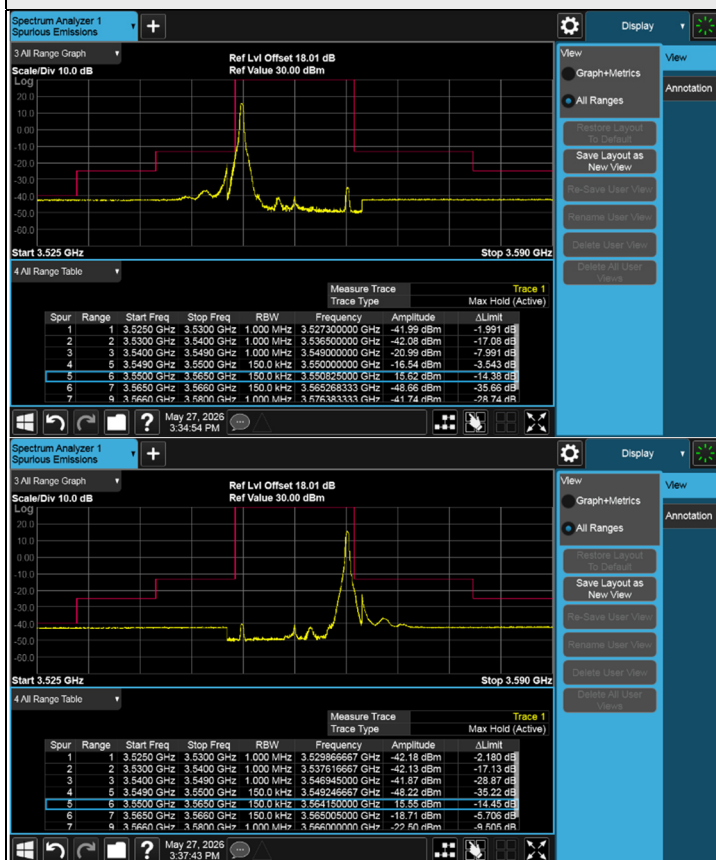




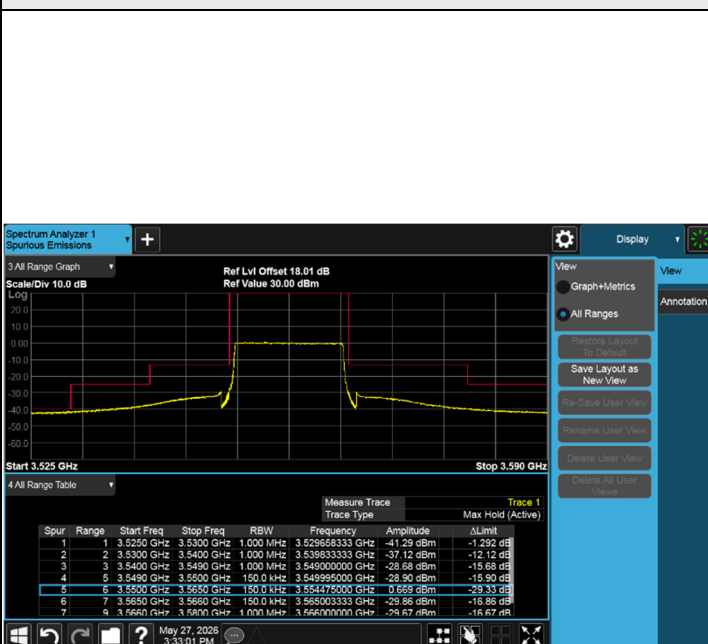
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 0, Channel Bandwidth: 15 MHz

CH 637168 (3557.52 MHz)

1 RB

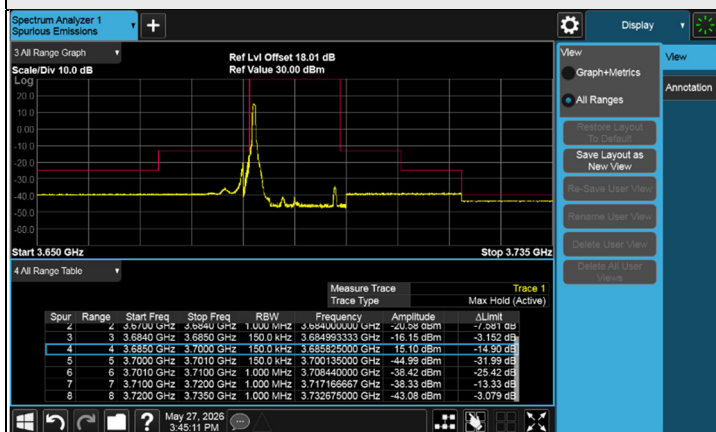


FULL RB



CH 646166 (3692.49 MHz)

1 RB



FULL RB

