

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCMA-WTW-P25030861-9

FCC ID: RAXTMOG5AR

Product: 5G Gateway

Brand: T-Mobile

Model No.: TMO-G5AR

Received Date: 2025/3/24

Test Date: 2025/4/22 ~ 2025/5/23

Issued Date: 2025/5/29

Applicant: Arcadyan Technology Corporation

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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:** 2025/5/29
Jeremy Lin / Project Engineer

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Prepared by : Celine Chou / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCMA-WTW-P25030861-9	Original release.	2025/5/29

1 Certificate

Product: 5G Gateway

Brand: T-Mobile

Test Model: TMO-G5AR

Sample Status: Engineering sample

Applicant: Arcadyan Technology Corporation

Test Date: 2025/4/22 ~ 2025/5/23

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

Measurement ANSI/TIA/EIA-603-E 2016

procedure: 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 -7.24 dB at 42.61 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -1.93 dB at 7249.98 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	3.64 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	5G Gateway
Brand	T-Mobile
Test Model	TMO-G5AR
Status of EUT	Engineering sample
Power Supply Rating	100-240 Vac
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. EUT Overview

1Tx

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

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
10 MHz	3555 ~ 3694.98	BPSK	0.198	22.96	8M57G7D
		QPSK	0.198	22.97	8M56G7D
		16QAM	0.132	21.19	8M60D7W
		64QAM	0.110	20.42	8M58D7W
		256QAM	0.069	18.41	8M56D7W
15 MHz	3557.52 ~ 3692.49	BPSK	0.196	22.92	12M9G7D
		QPSK	0.198	22.97	13M5G7D
		16QAM	0.134	21.26	13M5D7W
		64QAM	0.111	20.47	13M6D7W
		256QAM	0.068	18.35	13M5D7W
20 MHz	3560.01 ~ 3690	BPSK	0.198	22.97	17M9G7D
		QPSK	0.199	22.98	18M2G7D
		16QAM	0.132	21.21	18M1D7W
		64QAM	0.112	20.49	18M1D7W
		256QAM	0.068	18.35	18M2D7W
30 MHz	3565.02 ~ 3684.99	BPSK	0.198	22.97	26M8G7D
		QPSK	0.199	22.98	27M8G7D
		16QAM	0.134	21.26	27M8D7W
		64QAM	0.112	20.48	27M8D7W
		256QAM	0.070	18.45	27M7D7W
40 MHz	3570 ~ 3679.98	BPSK	0.198	22.97	35M7G7D
		QPSK	0.199	22.99	37M7G7D
		16QAM	0.134	21.27	37M8D7W
		64QAM	0.112	20.49	37M7D7W
		256QAM	0.070	18.45	37M8D7W

* The emission designator for QPSK, 16QAM, 64QAM, and 256QAM were based on the occupied bandwidth of the MIMO-Ant 2 mode

2Tx

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
10 MHz	3555 ~ 3694.98	QPSK	0.146	21.65	8M57G7D
		16QAM	0.109	20.39	8M60D7W
		64QAM	0.104	20.16	8M58D7W
		256QAM	0.077	18.88	8M57D7W
15 MHz	3557.52 ~ 3692.49	QPSK	0.146	21.64	13M5G7D
		16QAM	0.110	20.42	13M6D7W
		64QAM	0.107	20.29	13M6D7W
		256QAM	0.086	19.36	13M6D7W
20 MHz	3560.01 ~ 3690	QPSK	0.146	21.64	18M2G7D
		16QAM	0.111	20.44	18M2D7W
		64QAM	0.104	20.17	18M2D7W
		256QAM	0.077	18.88	18M2D7W
30 MHz	3565.02 ~ 3684.99	QPSK	0.148	21.69	27M8G7D
		16QAM	0.116	20.65	27M8D7W
		64QAM	0.108	20.32	27M8D7W
		256QAM	0.086	19.33	27M8D7W
40 MHz	3570 ~ 3679.98	QPSK	0.150	21.77	37M7G7D
		16QAM	0.108	20.34	37M8D7W
		64QAM	0.105	20.20	37M7D7W
		256QAM	0.080	19.03	37M8D7W

2. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	MOSO	P30-V3000R200-060Q0-US	AC Input: 100~240 Vac, 1.7 A, 50/60 Hz DC Output: 5.0 Vdc, 3.0 A; 9.0 Vdc, 3.0 A; 12.0 Vdc, 3.0 A; 15.0 Vdc, 3.0 A; 20.0 Vdc, 3.0 A DC Output Cable: 1.85 m, non-shielded cable, W/O ferrite core Plug: US
AC Adapter 2	MASS POWER	PD065E-D1C0AVU	AC Input: 100~240 Vac, 1.5 A, 50/60 Hz DC Output: 5.0 Vdc, 3.0 A; 9.0 Vdc, 3.0 A; 12.0 Vdc, 3.0 A; 15.0 Vdc, 3.0 A; 20.0 Vdc, 2.25 A DC Output Cable: 1.8 m, non-shielded cable, W/O ferrite core Plug: US

- 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

1. The antenna information is listed as below.

Antenna No.	Brand	Model	RF Chain No.	Antenna Net Gain (dBi)	Frequency Range	Antenna Type	Connector Type
ANT0	ARC	120800158700J	TX0	0.95	FDD B2	Monopole	MHF1
				1.02	FDD B4		
				2.06	FDD B5		
				2.46	FDD B12		
				0.95	FDD n25		
			RX	3.93	TDD n41		
				3.79	TDD n48		
				1.02	FDD B66/n66		
			TX0/ TX0	1.90	FDD B71/n71		
				3.79	TDD n77		
ANT1	ARC	120800158800J	RX	1.08	FDD B2	Monopole	MHF1
				0.95	FDD B4		
				1.68	FDD B5		
				1.55	FDD B12		
				1.08	FDD n25		
			TX1	1.04	TDD n41		
				1.00	TDD n48		
				0.95	FDD B66/n66		
			RX/ TX1	3.54	FDD B71/n71		
				0.79	TDD n77		
ANT2	ARC	120800158900J	RX	5.13	FDD B2	Monopole	MHF1
				4.51	FDD B4		
				2.14	FDD B5		
				2.36	FDD B12		
				5.13	FDD n25		
			TX0	1.05	TDD n41		
				0.72	TDD n48		
				4.51	FDD B66/n66		
			RX/ RX	2.16	FDD B71/n71		
				0.96	TDD n77		
ANT3	ARC	120800159000J	RX	1.63	FDD B2	Monopole	MHF1
				4.70	FDD B4		
				1.79	FDD B5		
				2.08	FDD B12		
				1.63	FDD n25		
				2.04	TDD n41		
				4.16	TDD n48		
				4.70	FDD B66/n66		
				2.87	FDD B71/n71		
				4.16	TDD n77		

Antenna No.	Antenna Type	Antenna Connector	RF Chain No.	Antenna Net Gain (dBi)	Frequency Range	Antenna Type	Connector Type
ANT4	ARC	120800159100J	RX	4.66	FDD B2	Dipole	MHF1
				3.77	FDD B4		
				4.66	FDD n25		
				3.45	TDD n41		
				4.32	TDD n48		
				3.77	FDD B66/n66		
				4.32	TDD n77		
ANT5	ARC	120800159200J	RX	3.95	FDD B2	Dipole	MHF1
				5.35	FDD B4		
				3.95	FDD n25		
				4.89	TDD n41		
				3.50	TDD n48		
				5.35	FDD B66/n66		
				3.50	TDD n77		
ANT6	ARC	120800159400J	RX	5.87	FDD B2	Dipole	MHF1
				4.40	FDD B4		
				5.87	FDD B25/n25		
				4.76	TDD n41		
				3.44	TDD n48		
				4.40	FDD B66/n66		
				3.44	TDD n77		
ANT7	ARC	120800159500J	RX	4.79	FDD B2	Dipole	MHF1
				4.62	FDD B4		
				4.79	FDD n25		
				5.64	TDD n41		
				3.88	TDD n48		
				4.62	FDD B66/n66		
				3.88	TDD n77		

* 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.

* For SISO mode:

1. n25 and n66 and n71 were fixed on ANT0.
2. n41 and n48 and n77 were fixed on ANT2.

* For MIMO mode:

1. n25 and n66 and n71 were fixed on ANT0 + ANT1.
2. n41 and n48 and n77 were fixed on ANT1 + ANT2.
3. The MIMO mode signal was uncorrelated signal.
4. Regarding EIRP/ERP calculation that we will use the maximum antenna gain/frequency band as calculation parameters.

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/2] \text{ dBi.}$$

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: MOSO P30-V3000R200-060Q0-US / MASS POWER PD065E-D1C0AVU. Pre-scan these models of AC Adapters and find the worst case as a representative test condition. 2. Pre-Scan has been conducted to determine the worst-case mode from all bandwidths, RB configurations and modulations.
Worst Case:	1. AC Adapter Worst Condition: MASS POWER PD065E-D1C0AVU 2. The EUT is designed to be positioned on the Z-axis only.

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

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	1Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(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

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	2Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	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

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	1Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	BPSK	1 RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	BPSK	1 RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	BPSK	1 RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	BPSK	1 RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	BPSK	1 RB
	2Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(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

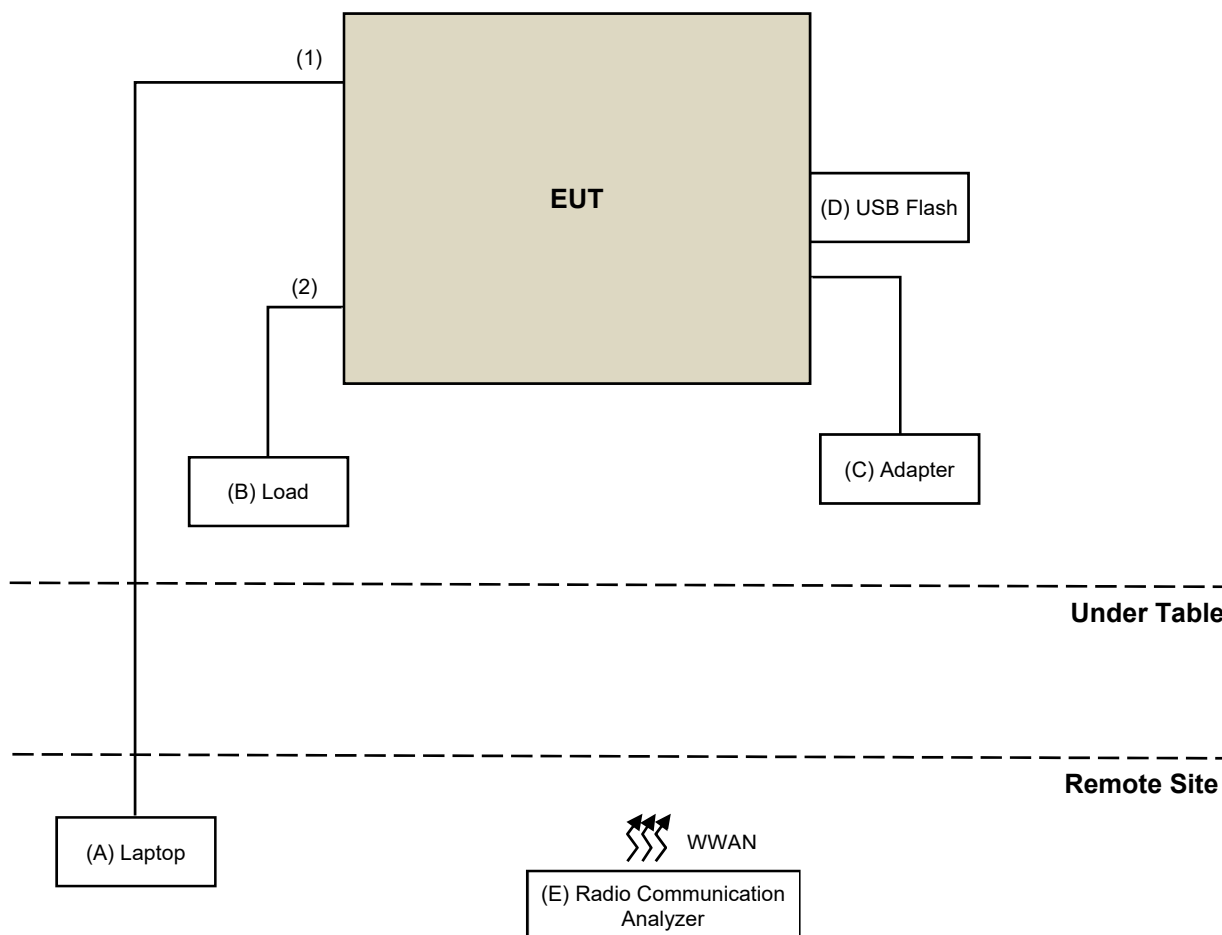
Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	1Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	BPSK	Full RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	BPSK	Full RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 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	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		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	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	2Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(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	2Tx	641666(3624.99 MHz)	40 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	2Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(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	1Tx	637000(3555.00 MHz) 646333(3694.98 MHz)	10 MHz	QPSK	Full RB
		637168(3557.52 MHz) 646166(3692.49 MHz)	15 MHz	QPSK	Full RB
		637334(3560.01 MHz) 646000(3690.00 MHz)	20 MHz	QPSK	Full RB
		637668(3565.02 MHz) 645666(3684.99 MHz)	30 MHz	QPSK	Full RB
		638000(3570.00 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	Full RB

3.4 Test Program Used and Operation Descriptions

EUT link Simulator has been activated to set the EUT under transmission condition continuously at specific channel frequency.

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	Laptop	DELL	E5430	2RL3YW1	N/A	Provided by Lab
B	Load	N/A	N/A	N/A	N/A	Provided by Lab
C	Adapter	MASS POWER	PD065E-D1C0AVU	N/A	N/A	Supplied by applicant
D	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
E	Radio Communication Analyzer	Keysight	E7515B	MY59321376	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	10	N	0	Provided by Lab
2	RJ-45 Cable	1	1.5	N	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
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
UXM 5G Wireless Test Platform Keysight	E7515B	MY59321376	2025/3/20	2026/3/19

Notes:

1. The test was performed in Oven room.
1. Tested Date: 2025/5/22 ~ 2025/5/23

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

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2024/5/26	2025/5/25

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/4/22 ~ 2025/5/23

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 4.1 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 inn-co GmbH	MA 4000	010303	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-155	2024/10/14	2025/10/13
EMI Test Receiver R&S	ESR3	102782	2024/12/10	2025/12/9
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
Preamplifier Agilent	8447D	2944A10631	2025/4/27	2026/4/26
RF Coaxial Cable Woken	8D-FB	Cable-CH4-01	2024/7/6	2025/7/5
Signal & Spectrum Analyzer R&S	FSV3044	101105	2025/2/25	2026/2/24
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 3.
2. Tested Date: 2025/5/12

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2024/12/10	2025/12/9
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-408	2024/11/10	2025/11/9
	BBHA 9170	9170-480	2024/11/10	2025/11/9
		BBHA9170241	2024/10/18	2025/10/17
		BBHA9170243	2024/11/10	2025/11/9
Preamplifier EMCI	EMC 184045	980116	2024/9/24	2025/9/23
Preamplifier Keysight	83017A	MY53270295	2025/4/27	2026/4/26
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2024/7/6	2025/7/5
	EMC102-KM-KM-3000	150929	2024/7/6	2025/7/5
RF Coaxial Cable HUBER+SUHNER	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4)	2025/4/27	2026/4/26
	SUCOFLEX 104	Cable-CH4-03(250724)	2025/4/27	2026/4/26
Signal & Spectrum Analyzer R&S	FSV3044	101105	2025/2/25	2026/2/24
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 3.
2. Tested Date: 2025/5/8

4.8 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Supply Extech Electronics Co.	6905S	1720444	N/A	N/A
Digital Multimeter Fluke	8050A	4660081	2024/6/14	2025/6/13
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
Temperature & Humidity Chamber Terchy	MHU-225AU	920842	2024/6/21	2025/6/20
UXM 5G Wireless Test Platform Keysight	E7515B	MY59321376	2025/3/20	2026/3/19
		MY60102115	2024/5/26	2025/5/25

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/5/22

5 Limits of Test Items

5.1 Maximum EIRP

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

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

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

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

5.8 Frequency Stability

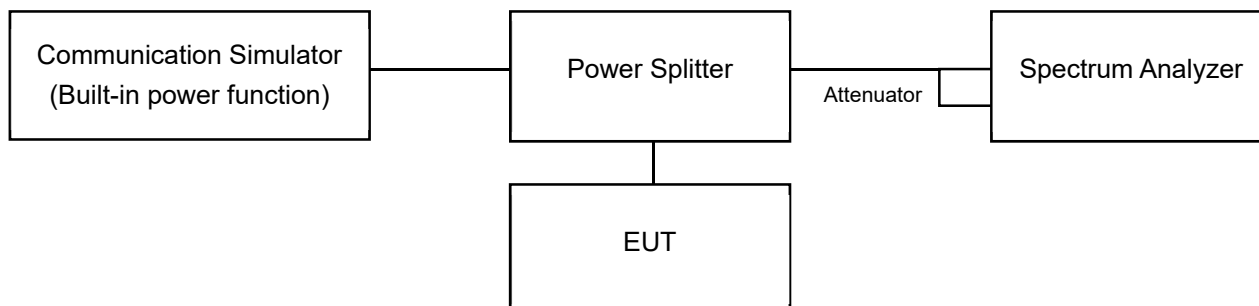
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation (authorized frequency block).

6 Test Arrangements

6.1 Maximum EIRP

6.1.1 Test Setup

Conducted Power Measurement:



6.1.2 Test Procedure

Conducted 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).

Power 10 MHz 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.

- Set span to 2 × to 3 × the OBW.
- Set RBW = 1% to 5% of the OBW.
- Set VBW ≥ 3 × RBW.
- Set number of measurement points in sweep ≥ 2 × span / RBW.
- Set Sweep time = auto-couple.
- Detector = power averaging (rms).
- Set sweep trigger to “free run.”
- Trace average at least 100 traces in power averaging (rms) mode.
- Use the Band/Channel Power function to determine the integrated power per 10 MHz bandwidth and full bandwidth, according to the 47 CFR FCC Part 96 standard.
- If Duty cycle < 98%, Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission.

Maximum EIRP / ERP

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

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

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

where

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

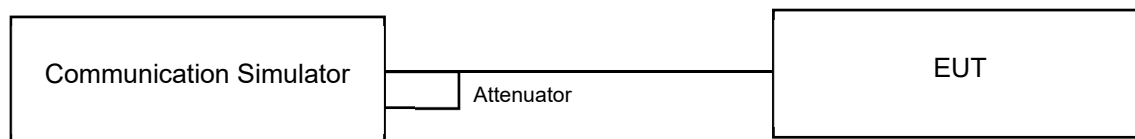
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

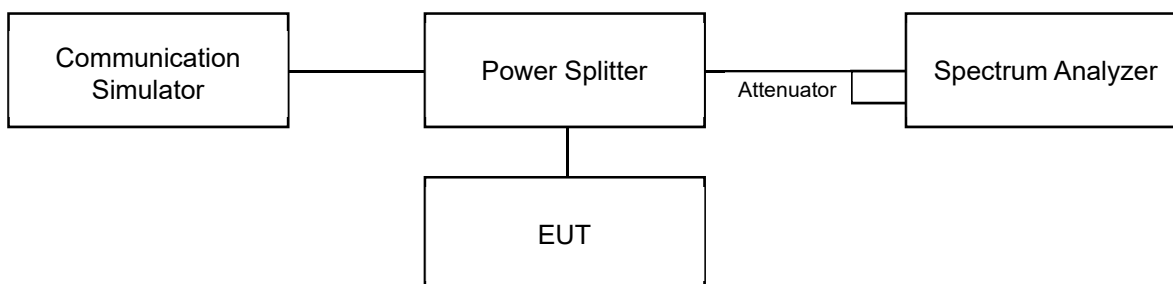


6.2.2 Test Procedure

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

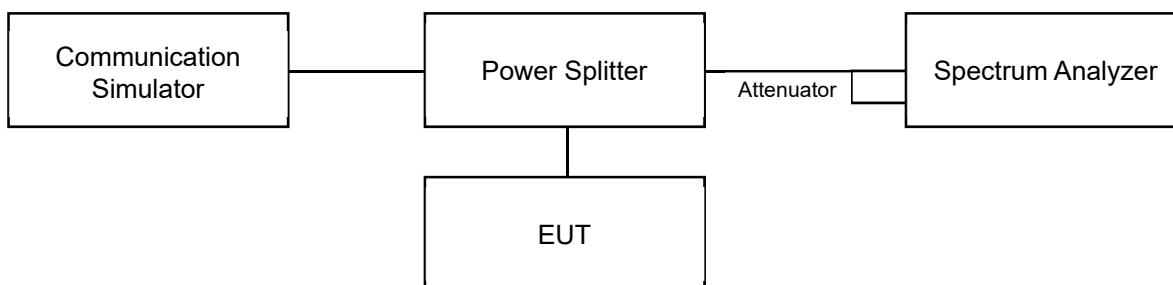


6.3.2 Test Procedure

- 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.

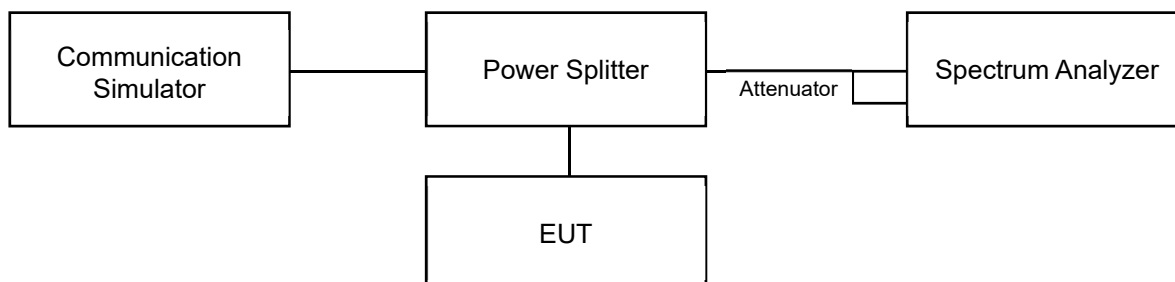
- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, 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. The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f. Determine the following reference values: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- g. Determine the “-X dB amplitude” as equal to (Reference Value - X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- h. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB amplitude” determined in step f). If a marker is below this “-X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- i. The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

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

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

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



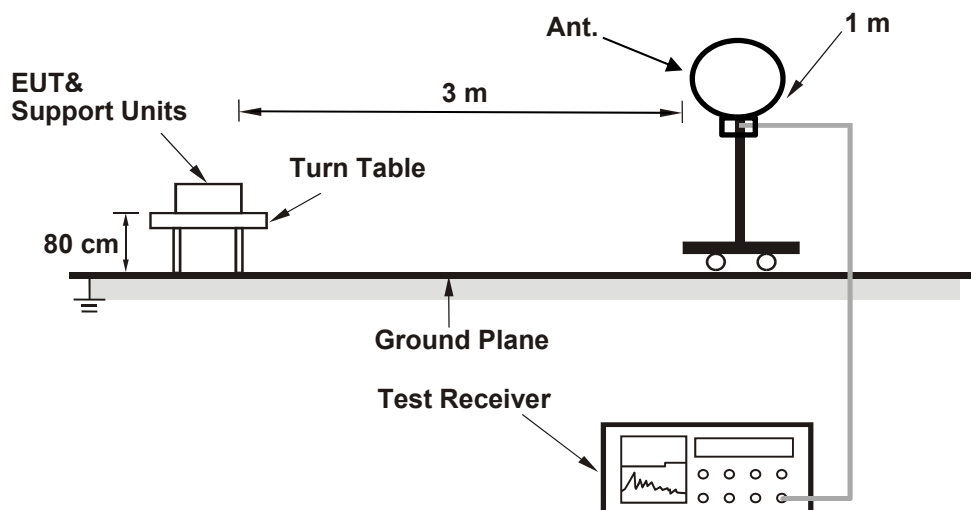
6.5.2 Test Procedure

- a. Measurement refer to ANSI C63.26 section 5.7.
- b. All measurements were done at 3 channels: low, middle and high operational frequency range.
- c. Measuring frequency range is from 9 kHz up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. 20 dB attenuation pad is connected with spectrum.
- d. The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
- e. The fundamental frequency below 1 GHz, the spectrum set RBW $\geq$ 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.
- a. 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).
- b. Record the maximum power value test plot.

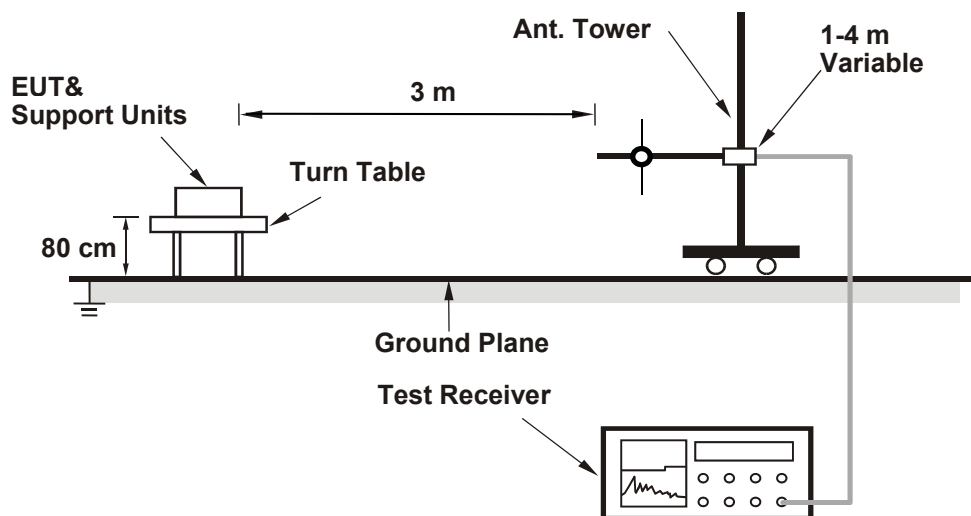
6.6 Radiated Spurious Emissions below 1GHz

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.

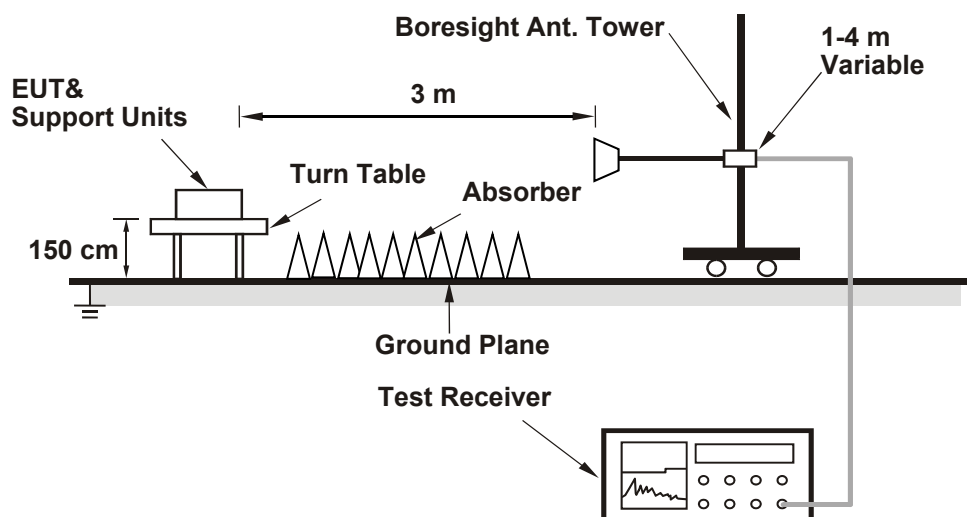
Note:

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

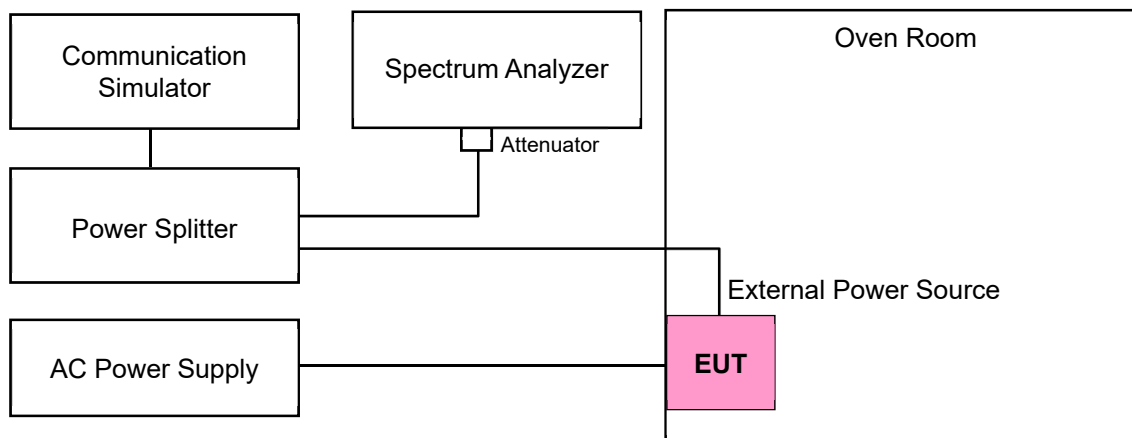
The EUT is configured to set data modulation and maximum power using WWAN technology.

- 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

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	23°C, 71% RH	Tested By:	Willy Cheng
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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), Ant 2, Channel Bandwidth: 10 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 10M					
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	22.24	22.00	21.47
	1	0	21.87	21.50	21.46
QPSK	1	1	22.25	21.99	21.87
	1	0	21.31	20.96	20.88
	1	11	22.01	21.69	21.74
	1	22	21.90	21.53	21.53
	1	23	20.90	20.62	20.55
	12	0	21.11	20.79	20.74
	12	6	22.06	21.64	21.61
	12	12	20.79	20.49	20.51
	24	0	20.90	20.21	20.10
16QAM	1	0	20.47	20.13	20.10
64QAM	1	0	19.70	19.39	19.29
256QAM	1	0	17.69	17.37	17.33

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.46	22.24	22.18	22.96	23
QPSK	20.1	22.25	20.82	22.97	23
16QAM	20.1	20.47	20.82	21.19	23
64QAM	19.29	19.7	20.01	20.42	23
256QAM	17.33	17.69	18.05	18.41	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), Ant 2, Channel Bandwidth: 15 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 15M					
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	22.20	22.00	21.44
	1	0	21.91	21.48	21.49
QPSK	1	1	22.25	21.94	21.86
	1	0	21.28	21.01	20.94
	1	19	21.95	21.66	21.67
	1	36	21.93	21.60	21.55
	1	37	20.87	20.63	20.51
	18	0	21.19	20.80	20.74
	18	10	21.99	21.62	21.58
	18	20	20.82	20.59	20.51
	36	0	20.95	20.65	20.65
	38	0	19.20	18.81	18.77
16QAM	1	0	20.54	20.15	20.15
64QAM	1	0	19.75	19.33	19.29
256QAM	1	0	17.63	17.39	17.33

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.44	22.2	22.16	22.92	23
QPSK	18.77	22.25	19.49	22.97	23
16QAM	20.15	20.54	20.87	21.26	23
64QAM	19.29	19.75	20.01	20.47	23
256QAM	17.33	17.63	18.05	18.35	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), Ant 2, Channel Bandwidth: 20 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 20M					
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	22.25	21.97	21.48
	1	0	21.89	21.50	21.46
QPSK	1	1	22.26	21.93	21.95
	1	0	21.33	20.93	20.93
	1	26	21.95	21.71	21.72
	1	49	21.89	21.58	21.52
	1	50	20.90	20.62	20.52
	25	0	21.20	20.79	20.79
	25	13	21.98	21.66	21.66
	25	26	20.81	20.57	20.58
	50	0	20.95	20.67	20.62
	51	0	19.13	18.82	18.76
16QAM	1	0	20.49	20.19	20.13
64QAM	1	0	19.77	19.36	19.32
256QAM	1	0	17.63	17.43	17.33

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.46	22.25	22.18	22.97	23
QPSK	18.76	22.26	19.48	22.98	23
16QAM	20.13	20.49	20.85	21.21	23
64QAM	19.32	19.77	20.04	20.49	23
256QAM	17.33	17.63	18.05	18.35	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), Ant 2, Channel Bandwidth: 30 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 30M					
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	22.25	22.01	21.45
	1	0	21.87	21.51	21.46
QPSK	1	1	22.26	22.00	21.86
	1	0	21.24	20.99	20.92
	1	39	22.02	21.68	21.72
	1	76	21.89	21.57	21.59
	1	77	20.84	20.63	20.52
	36	0	21.12	20.84	20.72
	36	21	22.07	21.64	21.57
	36	42	20.79	20.51	20.48
	75	0	20.89	20.70	20.67
	78	0	19.19	18.81	18.72
16QAM	1	0	20.54	20.17	20.17
64QAM	1	0	19.76	19.41	19.33
256QAM	1	0	17.65	17.39	17.32

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.45	22.25	22.17	22.97	23
QPSK	18.72	22.26	19.44	22.98	23
16QAM	20.17	20.54	20.89	21.26	23
64QAM	19.33	19.76	20.05	20.48	23
256QAM	17.4	17.73	18.12	18.45	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), Ant 2, Channel Bandwidth: 40 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 40M					
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	22.25	22.01	21.51
	1	0	21.92	21.57	21.53
QPSK	1	1	22.27	22.03	21.95
	1	0	21.34	21.03	20.95
	1	53	22.05	21.75	21.75
	1	104	21.94	21.63	21.60
	1	105	20.93	20.66	20.60
	50	0	21.20	20.84	20.79
	50	28	22.08	21.72	21.67
	50	56	20.86	20.59	20.58
	100	0	20.99	20.70	20.67
	106	0	19.21	18.87	18.79
16QAM	1	0	20.55	20.22	20.18
64QAM	1	0	19.77	19.41	19.38
256QAM	1	0	17.73	17.47	17.40

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.51	22.25	22.23	22.97	23
QPSK	18.79	22.27	19.51	22.99	23
16QAM	20.18	20.55	20.9	21.27	23
64QAM	19.38	19.77	20.1	20.49	23
256QAM	17.4	17.73	18.12	18.45	23

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

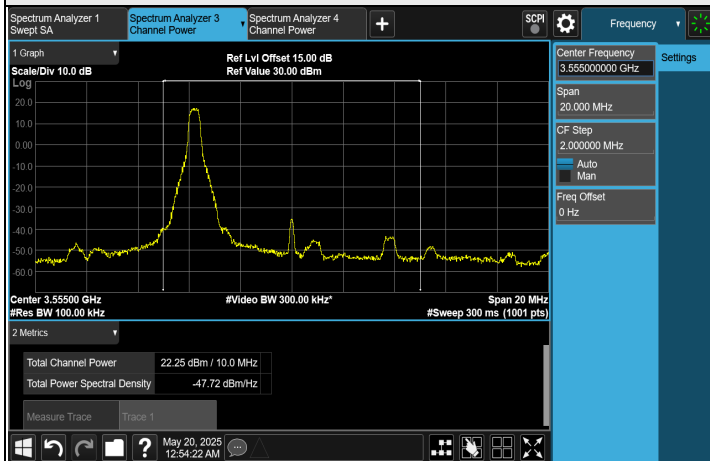
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 10 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 10M					
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	22.24	22.00	21.47
	1	0	21.87	21.50	21.46
QPSK	1	1	22.25	21.99	21.87
	1	0	21.31	20.96	20.88
	1	11	22.01	21.69	21.74
	1	22	21.90	21.53	21.53
	1	23	20.90	20.62	20.55
	12	0	21.11	20.79	20.74
	12	6	22.06	21.64	21.61
	12	12	20.79	20.49	20.51
	24	0	20.90	20.21	20.10
16QAM	1	0	20.47	20.13	20.10
64QAM	1	0	19.70	19.39	19.29
256QAM	1	0	17.69	17.37	17.33

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.46	22.24	22.18	22.96	23
QPSK	20.1	22.25	20.82	22.97	23
16QAM	20.1	20.47	20.82	21.19	23
64QAM	19.29	19.7	20.01	20.42	23
256QAM	17.33	17.69	18.05	18.41	23

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

Spectrum Plot of Worst Value



QPSK CH 637000 (3555 MHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 15 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 15M					
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	22.15	21.99	21.43
	1	0	21.90	21.45	21.46
QPSK	1	1	22.23	21.92	21.83
	1	0	21.25	20.98	20.92
	1	19	21.90	21.61	21.64
	1	36	21.92	21.55	21.52
	1	37	20.83	20.58	20.49
	18	0	21.14	20.78	20.69
	18	10	21.96	21.59	21.54
	18	20	20.81	20.58	20.48
	36	0	19.93	19.63	19.65
	38	0	17.88	17.47	17.46
16QAM	1	0	20.50	20.13	20.14
64QAM	1	0	19.74	19.30	19.25
256QAM	1	0	17.58	17.38	17.30

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.43	22.15	22.15	22.87	23
QPSK	17.46	22.23	18.18	22.95	23
16QAM	20.13	20.5	20.85	21.22	23
64QAM	19.25	19.74	19.97	20.46	23
256QAM	17.3	17.58	18.02	18.3	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), Ant 2, Channel Bandwidth: 20 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 20M					
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	22.20	21.95	21.46
	1	0	21.85	21.46	21.43
QPSK	1	1	22.24	21.90	21.93
	1	0	21.29	20.91	20.90
	1	26	21.90	21.67	21.70
	1	49	21.87	21.54	21.50
	1	50	20.86	20.61	20.47
	25	0	20.89	20.46	20.47
	25	13	21.67	21.32	21.32
	25	26	20.49	20.25	20.28
	50	0	18.75	18.44	18.39
	51	0	16.54	16.27	16.19
16QAM	1	0	20.47	20.17	20.12
64QAM	1	0	19.76	19.31	19.29
256QAM	1	0	17.58	17.40	17.30

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.43	22.2	22.15	22.92	23
QPSK	16.19	22.24	16.91	22.96	23
16QAM	20.12	20.47	20.84	21.19	23
64QAM	19.29	19.76	20.01	20.48	23
256QAM	17.3	17.58	18.02	18.3	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), Ant 2, Channel Bandwidth: 30 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 30M					
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	22.21	22.00	21.41
	1	0	21.83	21.46	21.44
QPSK	1	1	22.23	21.97	21.84
	1	0	21.23	20.98	20.90
	1	39	21.98	21.64	21.69
	1	76	21.86	21.53	21.58
	1	77	20.80	20.59	20.51
	36	0	20.11	19.83	19.68
	36	21	21.05	20.62	20.53
	36	42	19.77	19.49	19.45
	75	0	16.56	16.37	16.37
	78	0	14.68	14.31	14.18
16QAM	1	0	20.50	20.15	20.12
64QAM	1	0	19.75	19.36	19.32
256QAM	1	0	17.64	17.35	17.29

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.41	22.21	22.13	22.93	23
QPSK	14.18	22.23	14.9	22.95	23
16QAM	20.12	20.5	20.84	21.22	23
64QAM	19.32	19.75	20.04	20.47	23
256QAM	17.29	17.64	18.01	18.36	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), Ant 2, Channel Bandwidth: 40 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 40M					
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	22.24	21.98	21.46
	1	0	21.91	21.54	21.50
QPSK	1	1	22.00	21.98	21.92
	1	0	21.32	21.01	20.91
	1	53	22.04	21.72	21.70
	1	104	21.92	21.60	21.58
	1	105	20.92	20.65	20.59
	50	0	18.68	18.33	18.28
	50	28	19.54	19.21	19.17
	50	56	18.33	18.09	18.06
	100	0	15.47	15.18	15.16
	106	0	13.19	12.83	12.79
16QAM	1	0	20.50	20.19	20.15
64QAM	1	0	19.73	19.40	19.33
256QAM	1	0	17.71	17.46	17.38

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.46	22.24	22.18	22.96	23
QPSK	12.79	22.04	13.51	22.76	23
16QAM	20.15	20.5	20.87	21.22	23
64QAM	19.33	19.73	20.05	20.45	23
256QAM	17.38	17.71	18.1	18.43	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: 10 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 10M											
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	17.67	17.27	20.48	17.64	17.26	20.46	17.64	17.28	20.47
	1	0	16.74	16.14	19.46	16.73	16.17	19.47	16.71	16.14	19.44
	1	11	17.71	17.24	20.49	17.69	17.31	20.51	17.69	17.28	20.50
	1	22	16.56	16.53	19.56	16.49	16.59	19.55	16.49	16.56	19.54
	1	23	15.93	16.00	18.98	15.85	16.00	18.94	15.89	15.96	18.94
	12	0	17.20	16.67	19.95	17.11	16.66	19.90	17.20	16.66	19.95
	12	6	17.55	17.27	20.42	17.54	17.27	20.42	17.58	17.22	20.41
	12	12	16.13	15.88	19.02	16.10	15.92	19.02	16.09	15.89	19.00
	24	0	18.11	17.11	20.65	18.06	17.03	20.59	18.10	17.12	20.65
16QAM	1	0	16.57	16.01	19.31	16.67	16.07	19.39	16.33	16.22	19.29
64QAM	1	0	16.35	15.95	19.16	16.32	15.85	19.10	16.23	16.00	19.13
256QAM	1	0	15.32	14.31	17.85	15.37	14.31	17.88	15.34	14.28	17.85

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.94	20.65	19.94	21.65	23
16QAM	19.29	19.39	20.29	20.39	23
64QAM	19.1	19.16	20.1	20.16	23
256QAM	17.85	17.88	18.85	18.88	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

NR n48 SCS 30 kHz 15M											
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	17.62	17.25	20.45	17.67	17.26	20.48	17.65	17.29	20.48
	1	0	16.81	16.22	19.54	16.77	16.20	19.50	16.75	16.16	19.48
	1	19	17.69	17.24	20.48	17.68	17.26	20.49	17.73	17.25	20.51
	1	36	16.51	16.53	19.53	16.47	16.59	19.54	16.47	16.58	19.54
	1	37	15.85	15.97	18.92	15.90	15.95	18.94	15.83	15.96	18.91
	18	0	17.14	16.70	19.94	17.12	16.62	19.89	17.16	16.72	19.96
	18	10	17.62	17.23	20.44	17.62	17.25	20.45	17.53	17.26	20.41
	18	20	16.09	15.92	19.02	16.13	15.83	18.99	16.09	15.85	18.98
	36	0	17.16	18.02	20.62	17.06	18.04	20.59	17.12	18.09	20.64
	38	0	16.25	18.03	20.24	16.26	18.04	20.25	16.20	18.12	20.28
16QAM	1	0	16.74	16.05	19.42	16.55	16.07	19.33	16.70	16.05	19.40
64QAM	1	0	16.31	15.88	19.11	16.15	15.93	19.05	16.54	16.00	19.29
256QAM	1	0	15.28	15.30	18.30	15.36	15.29	18.34	15.35	15.34	18.36

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.91	20.64	19.91	21.64	23
16QAM	19.33	19.42	20.33	20.42	23
64QAM	19.05	19.29	20.05	20.29	23
256QAM	18.3	18.36	19.3	19.36	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), MIMO, Channel Bandwidth: 20 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 20M											
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	17.69	17.25	20.49	17.68	17.30	20.50	17.69	17.34	20.53
	1	0	16.81	16.22	19.54	16.81	16.13	19.49	16.81	16.20	19.53
	1	26	17.71	17.26	20.50	17.72	17.32	20.53	17.72	17.26	20.51
	1	49	16.47	16.56	19.53	16.56	16.58	19.58	16.48	16.57	19.54
	1	50	15.83	15.96	18.91	15.89	16.03	18.97	15.91	16.01	18.97
	25	0	17.16	16.72	19.96	17.19	16.69	19.96	17.15	16.70	19.94
	25	13	17.57	17.23	20.41	17.53	17.19	20.37	17.58	17.21	20.41
	25	26	16.13	15.83	18.99	16.11	15.92	19.03	16.16	15.83	19.01
	50	0	17.09	18.09	20.63	17.14	18.05	20.63	17.13	18.08	20.64
	51	0	16.22	18.06	20.25	16.30	18.04	20.27	16.21	18.03	20.22
16QAM	1	0	16.78	15.93	19.39	16.66	16.00	19.35	16.77	16.05	19.44
64QAM	1	0	16.31	15.90	19.12	16.51	15.77	19.17	16.33	15.98	19.17
256QAM	1	0	15.31	14.34	17.86	15.36	14.31	17.88	15.36	14.29	17.87

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.91	20.64	19.91	21.64	23
16QAM	19.35	19.44	20.35	20.44	23
64QAM	19.12	19.17	20.12	20.17	23
256QAM	17.86	17.88	18.86	18.88	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

NR n48 SCS 30 kHz 30M											
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	17.67	17.69	20.69	17.64	17.24	20.45	17.62	17.32	20.48
	1	0	16.71	16.73	19.73	16.76	16.13	19.47	16.80	16.22	19.53
	1	39	17.65	17.55	20.61	17.73	17.30	20.53	17.66	17.24	20.47
	1	76	16.47	16.56	19.53	16.56	16.61	19.60	16.47	16.59	19.54
	1	77	15.90	15.90	18.91	15.89	16.04	18.98	15.88	16.03	18.97
	36	0	17.15	17.18	20.18	17.11	16.64	19.89	17.11	16.69	19.92
	36	21	17.55	17.59	20.58	17.56	17.19	20.39	17.59	17.29	20.45
	36	42	16.09	16.08	19.10	16.06	15.86	18.97	16.11	15.90	19.02
	75	0	17.10	17.13	20.13	17.09	18.12	20.65	17.06	18.08	20.61
	78	0	16.28	16.21	19.26	16.23	18.06	20.25	16.20	18.08	20.25
16QAM	1	0	16.62	16.66	19.65	16.70	15.93	19.34	16.66	16.10	19.40
64QAM	1	0	16.30	16.32	19.32	16.37	15.84	19.12	16.27	15.99	19.14
256QAM	1	0	15.34	15.30	18.33	15.29	14.27	17.82	15.30	14.34	17.86

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.91	20.69	19.91	21.69	23
16QAM	19.34	19.65	20.34	20.65	23
64QAM	19.12	19.32	20.12	20.32	23
256QAM	17.82	18.33	18.82	19.33	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

NR n48 SCS 30 kHz 40M											
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	17.89	16.69	20.34	17.71	17.81	20.77	17.13	17.59	20.38
	1	0	16.73	16.21	19.49	16.31	15.72	19.04	16.72	16.17	19.46
	1	53	17.66	17.27	20.48	17.75	17.34	20.56	17.73	17.25	20.51
	1	104	16.46	16.61	19.55	17.56	17.62	20.60	16.55	16.58	19.58
	1	105	15.90	15.98	18.95	15.93	16.04	19.00	15.92	15.96	18.95
	50	0	17.14	16.63	19.90	16.21	15.72	18.98	17.21	16.72	19.98
	50	28	17.53	17.22	20.39	17.63	17.29	20.47	17.56	17.26	20.42
	50	56	16.10	15.86	18.99	16.16	15.93	19.06	16.08	15.86	18.98
	100	0	17.16	16.68	19.94	16.16	15.75	18.97	17.13	16.75	19.95
	106	0	16.21	15.79	19.02	16.30	15.81	19.07	16.26	15.75	19.02
16QAM	1	0	16.53	16.11	19.34	15.87	15.81	18.85	16.55	16.1	19.34
64QAM	1	0	16.33	16.04	19.20	15.8	15.37	18.60	16.22	15.94	19.09
256QAM	1	0	15.36	14.61	18.01	15.11	14.22	17.70	15.36	14.65	18.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.95	20.77	19.95	21.77	23
16QAM	18.85	19.34	19.85	20.34	23
64QAM	18.6	19.2	19.6	20.2	23
256QAM	17.7	18.03	18.7	19.03	23

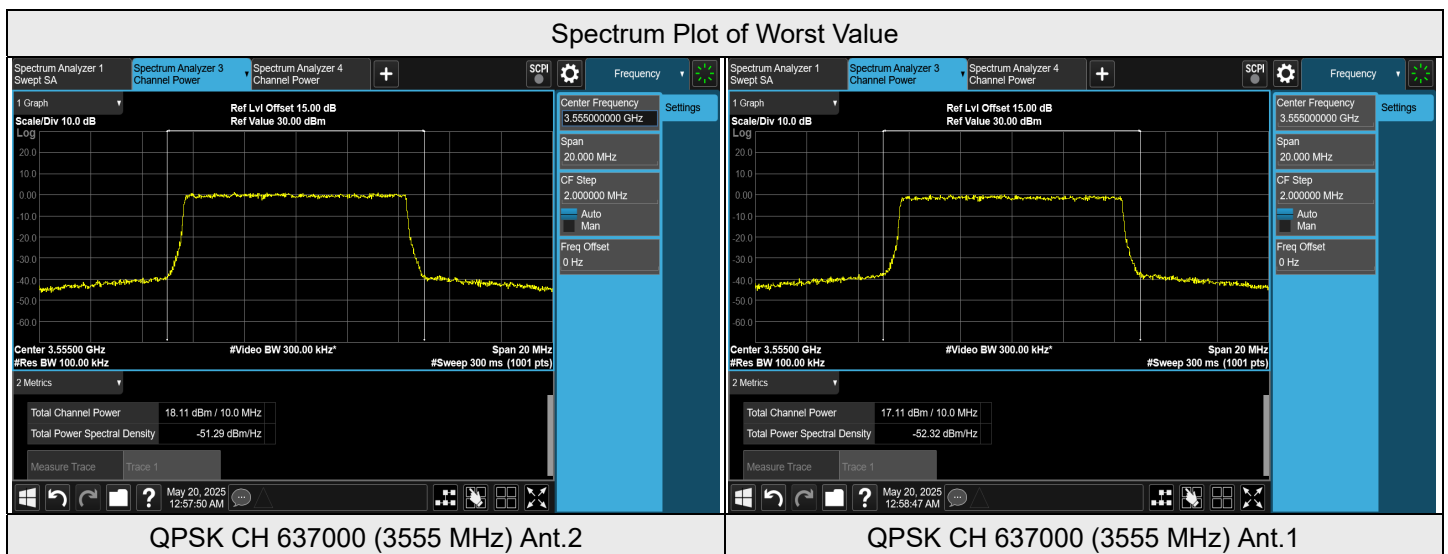
Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

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

NR n48 SCS 30 kHz 10M											
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	17.67	17.27	20.48	17.64	17.26	20.46	17.64	17.28	20.47
	1	0	16.74	16.14	19.46	16.73	16.17	19.47	16.71	16.14	19.44
	1	11	17.71	17.24	20.49	17.69	17.31	20.51	17.69	17.28	20.50
	1	22	16.56	16.53	19.56	16.49	16.59	19.55	16.49	16.56	19.54
	1	23	15.93	16.00	18.98	15.85	16.00	18.94	15.89	15.96	18.94
	12	0	17.20	16.67	19.95	17.11	16.66	19.90	17.20	16.66	19.95
	12	6	17.55	17.27	20.42	17.54	17.27	20.42	17.58	17.22	20.41
	12	12	16.13	15.88	19.02	16.10	15.92	19.02	16.09	15.89	19.00
	24	0	18.11	17.11	20.65	18.06	17.03	20.59	18.10	17.12	20.65
16QAM	1	0	16.57	16.01	19.31	16.67	16.07	19.39	16.33	16.22	19.29
64QAM	1	0	16.35	15.95	19.16	16.32	15.85	19.10	16.23	16.00	19.13
256QAM	1	0	15.32	14.31	17.85	15.37	14.31	17.88	15.34	14.28	17.85

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.94	20.65	19.94	21.65	23
16QAM	19.29	19.39	20.29	20.39	23
64QAM	19.1	19.16	20.1	20.16	23
256QAM	17.85	17.88	18.85	18.88	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

NR n48 SCS 30 kHz 15M											
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	17.61	17.21	20.42	17.63	17.22	20.44	17.64	17.28	20.47
	1	0	16.76	16.19	19.49	16.73	16.16	19.46	16.72	16.12	19.44
	1	19	17.66	17.20	20.45	17.66	17.24	20.47	17.71	17.21	20.48
	1	36	16.48	16.50	19.50	16.45	16.56	19.52	16.45	16.53	19.50
	1	37	15.81	15.93	18.88	15.89	15.93	18.92	15.82	15.93	18.89
	18	0	17.09	16.67	19.90	17.07	16.61	19.86	17.11	16.70	19.92
	18	10	17.61	17.18	20.41	17.61	17.20	20.42	17.49	17.24	20.38
	18	20	16.04	15.91	18.99	16.12	15.82	18.98	16.05	15.82	18.95
	36	0	16.15	17.02	19.62	16.06	17.00	19.57	16.12	17.07	19.63
	38	0	14.94	16.71	18.92	14.92	16.73	18.93	14.89	16.81	18.97
16QAM	1	0	16.73	16.00	19.39	16.51	16.04	19.29	16.65	16.02	19.36
64QAM	1	0	16.26	15.85	19.07	16.11	15.92	19.03	16.52	15.98	19.27
256QAM	1	0	15.23	15.26	18.26	15.31	15.25	18.29	15.32	15.33	18.34

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.88	20.48	19.88	21.48	23
16QAM	19.29	19.39	20.29	20.39	23
64QAM	19.03	19.27	20.03	20.27	23
256QAM	18.26	18.34	19.26	19.34	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

NR n48 SCS 30 kHz 20M											
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	17.67	17.23	20.47	17.63	17.25	20.45	17.63	17.30	20.48
	1	0	16.79	16.18	19.51	16.8	16.10	19.47	16.78	16.18	19.50
	1	26	17.67	17.25	20.48	17.69	17.30	20.51	17.67	17.24	20.47
	1	49	16.46	16.52	19.50	16.53	16.55	19.55	16.47	16.54	19.52
	1	50	15.78	15.94	18.87	15.86	16.02	18.95	15.90	16.00	18.96
	25	0	16.83	16.42	19.64	16.88	16.35	19.63	16.83	16.36	19.61
	25	13	17.25	16.93	20.10	17.21	16.86	20.05	17.28	16.89	20.10
	25	26	15.80	15.53	18.68	15.8	15.58	18.70	15.85	15.52	18.70
	50	0	14.88	15.89	18.42	14.91	15.82	18.40	14.89	15.88	18.42
	51	0	13.65	15.50	17.68	13.74	15.45	17.69	13.64	15.47	17.66
16QAM	1	0	16.76	15.89	19.36	16.64	15.97	19.33	16.76	16.04	19.43
64QAM	1	0	16.29	15.86	19.09	16.48	15.72	19.13	16.30	15.95	19.14
256QAM	1	0	15.26	14.31	17.82	15.33	14.26	17.84	15.35	14.28	17.86

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	17.66	20.51	18.66	21.51	23
16QAM	19.33	19.43	20.33	20.43	23
64QAM	19.09	19.14	20.09	20.14	23
256QAM	17.82	17.86	18.82	18.86	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: 30 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 30M											
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	17.60	17.65	20.64	17.60	17.20	20.41	17.59	17.27	20.44
	1	0	16.68	16.69	19.70	16.75	16.09	19.44	16.77	16.18	19.50
	1	39	17.62	17.53	20.59	17.72	17.25	20.50	17.63	17.22	20.44
	1	76	16.46	16.53	19.51	16.54	16.57	19.57	16.45	16.56	19.52
	1	77	15.85	15.87	18.87	15.88	16.00	18.95	15.85	15.98	18.93
	36	0	16.13	16.18	19.17	16.09	15.64	18.88	16.11	15.66	18.90
	36	21	16.54	16.55	19.56	16.55	16.18	19.38	16.59	16.28	19.45
	36	42	15.08	15.04	18.07	15.03	14.86	17.96	15.08	14.88	17.99
	75	0	12.79	12.83	15.82	12.77	13.79	16.32	12.75	13.76	16.29
	78	0	11.77	11.69	14.74	11.72	13.56	15.75	11.70	13.55	15.73
16QAM	1	0	16.60	16.62	19.62	16.65	15.90	19.30	16.61	16.09	19.37
64QAM	1	0	16.27	16.29	19.29	16.33	15.83	19.10	16.22	15.95	19.10
256QAM	1	0	15.30	15.25	18.29	15.27	14.23	17.79	15.28	14.32	17.84

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	14.74	20.64	15.74	21.64	23
16QAM	19.3	19.62	20.3	20.62	23
64QAM	19.1	19.29	20.1	20.29	23
256QAM	17.79	18.29	18.79	19.29	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

NR n48 SCS 30 kHz 40M											
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	17.86	16.67	20.32	17.60	17.63	20.63	17.10	17.57	20.35
	1	0	16.68	16.17	19.44	16.27	15.68	19.00	16.69	16.16	19.44
	1	53	17.63	17.26	20.46	17.73	17.30	20.53	17.68	17.23	20.47
	1	104	16.43	16.57	19.51	17.50	17.44	20.48	16.51	16.53	19.53
	1	105	15.88	15.93	18.92	15.92	16.02	18.98	15.87	15.92	18.91
	50	0	14.61	14.13	17.39	13.71	13.18	16.46	14.68	14.20	17.46
	50	28	15.02	14.69	17.87	15.09	14.78	17.95	15.04	14.73	17.90
	50	56	13.59	13.32	16.47	13.62	13.42	16.53	13.54	13.35	16.46
	100	0	11.62	11.17	14.41	10.62	10.24	13.44	11.62	11.24	14.44
	106	0	10.20	9.77	13.00	10.27	9.81	13.06	10.23	9.72	12.99
16QAM	1	0	16.48	16.06	19.29	15.83	15.77	18.81	16.51	16.05	19.30
64QAM	1	0	16.29	16	19.16	15.79	15.32	18.57	16.17	15.92	19.06
256QAM	1	0	15.31	14.6	17.98	15.08	14.2	17.67	15.34	14.62	18.01

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	12.99	20.63	13.99	21.63	23
16QAM	18.81	19.3	19.81	20.3	23
64QAM	18.57	19.16	19.57	20.16	23
256QAM	17.67	18.01	18.67	19.01	23

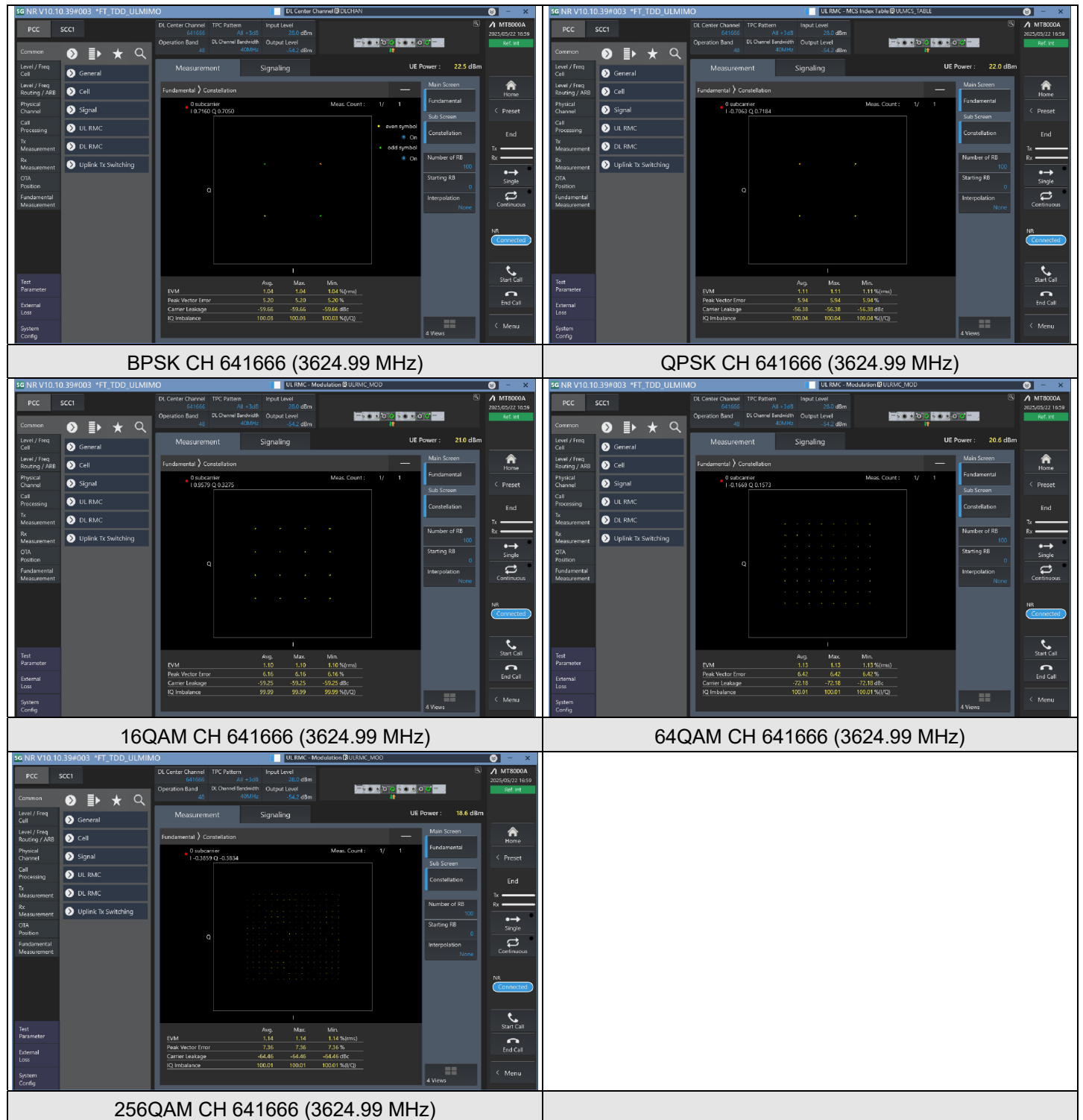
Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.2 Modulation Characteristics

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 70% 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), Ant 2, Channel Bandwidth: 40 MHz



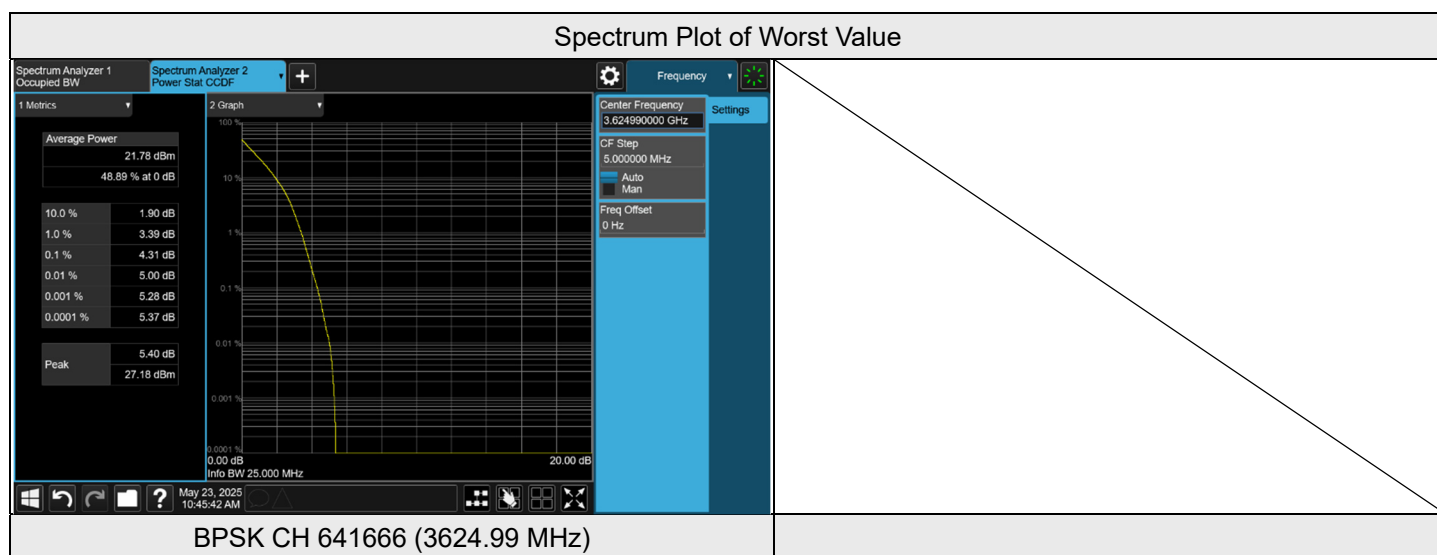
7.3 Peak to Average Ratio

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 70% RH	Tested By:	Willy Cheng
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7.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

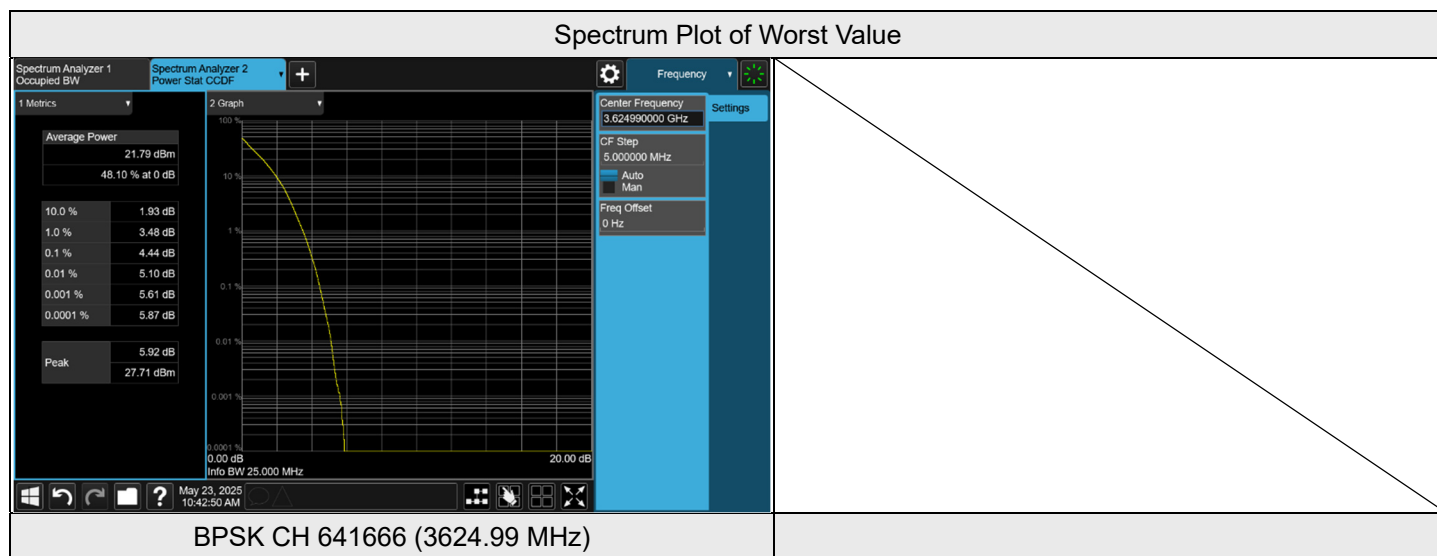
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637000	CH 641666	CH 646332
			3555 MHz	3624.99 MHz	3694.98 MHz
BPSK	1	23	4.19	4.22	4.20
	1	0	4.27	4.31	4.28
	24	0	4.19	4.25	4.22



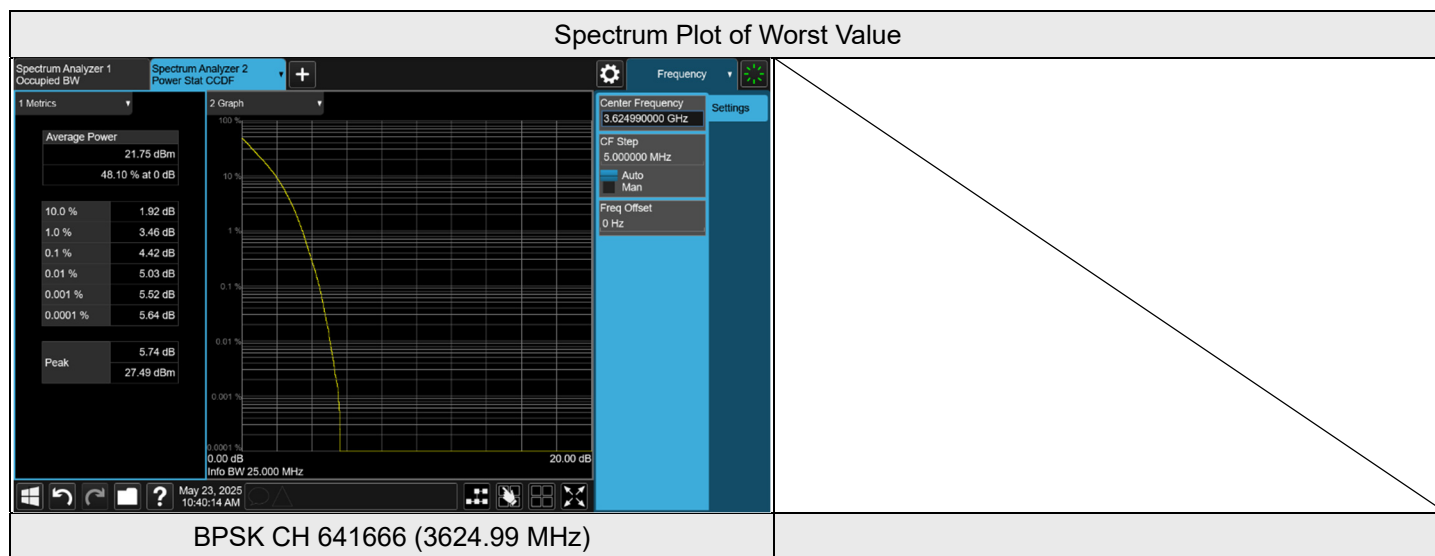
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	37	4.32	4.35	4.36
	1	0	4.38	4.44	4.43
	38	0	4.30	4.35	4.34



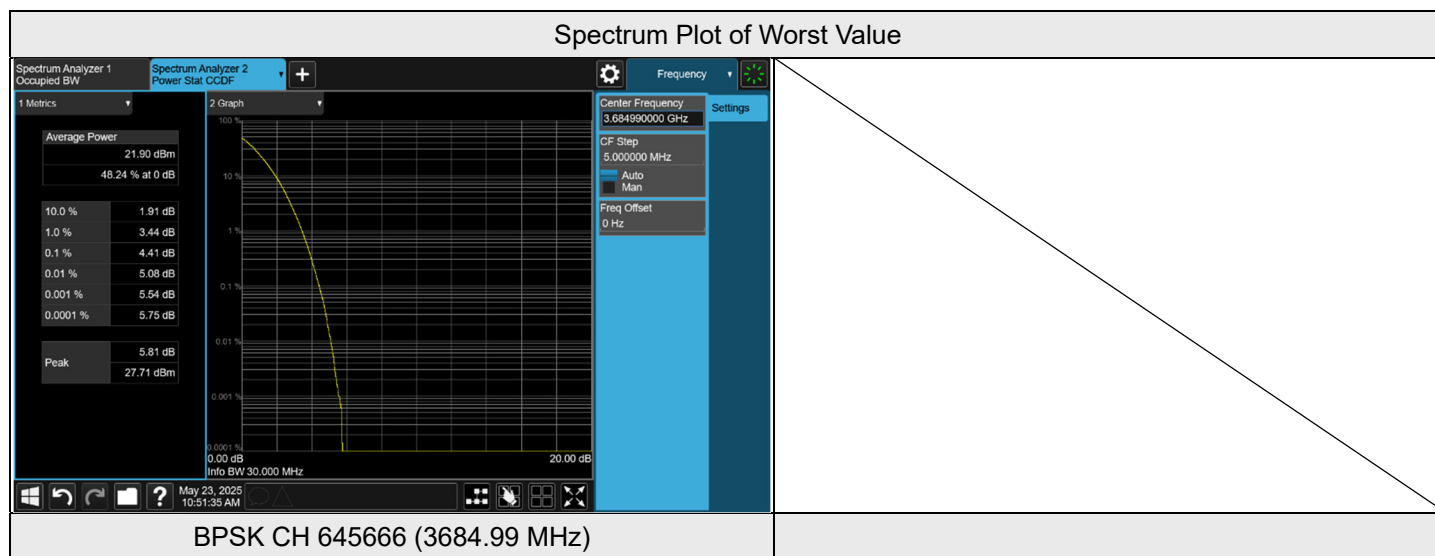
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	50	4.28	4.33	4.33
	1	0	4.32	4.42	4.41
	51	0	4.24	4.35	4.35



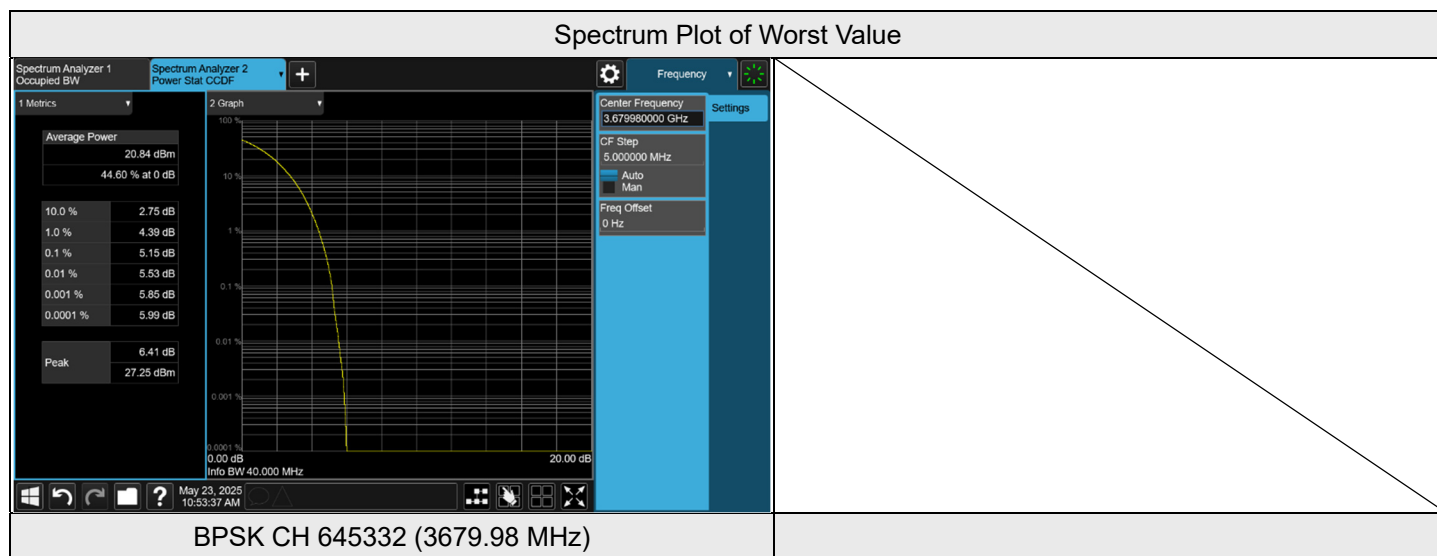
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
BPSK	1	77	4.31	4.33	4.36
	1	0	4.39	4.38	4.41
	78	0	4.33	4.32	4.34



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 40 MHz

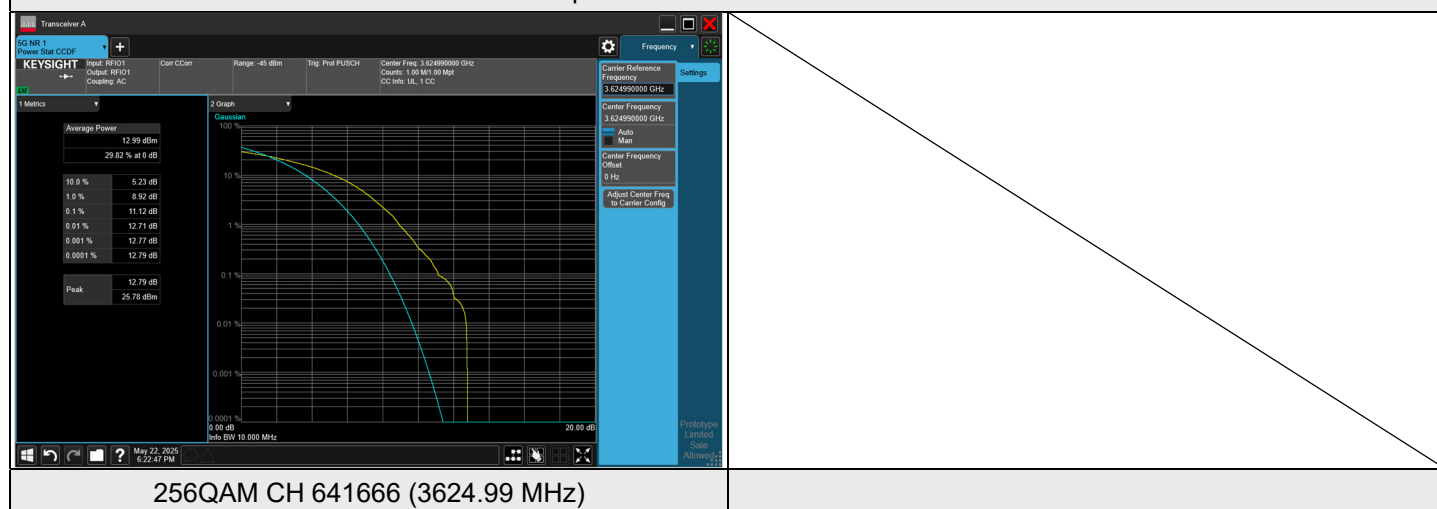
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
BPSK	1	105	5.08	5.03	5.07
	1	0	5.12	5.08	5.15
	106	0	5.07	5.00	5.10



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

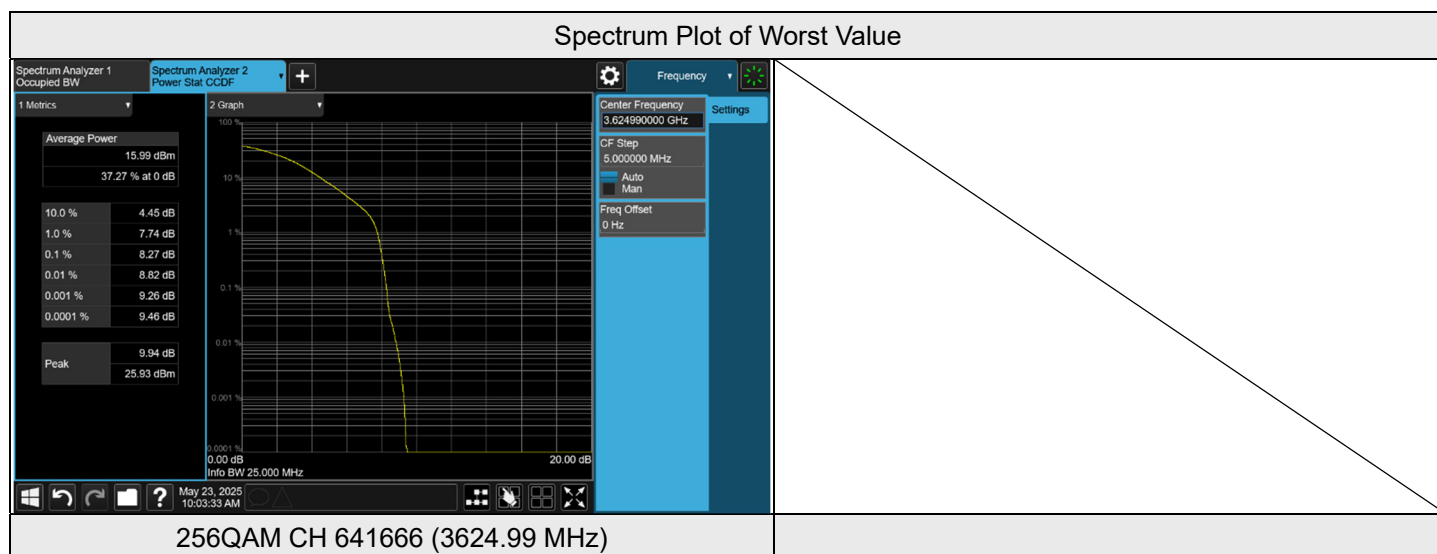
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637000	CH 641666	CH 646332
			3555 MHz	3624.99 MHz	3694.98 MHz
QPSK	1	23	7.44	7.42	9.93
	1	0	7.73	7.77	10.08
	24	0	8.18	8.24	8.59
16QAM	1	23	6.86	7.05	9.65
	1	0	6.94	7.07	10.03
	24	0	7.83	8.22	8.09
64QAM	1	23	10.12	7.72	7.73
	1	0	10.31	7.92	8.06
	24	0	10.85	8.09	8.21
256QAM	1	23	8.79	11.12	10.93
	1	0	8.20	8.15	11.04
	24	0	8.36	8.37	8.57

Spectrum Plot of Worst Value



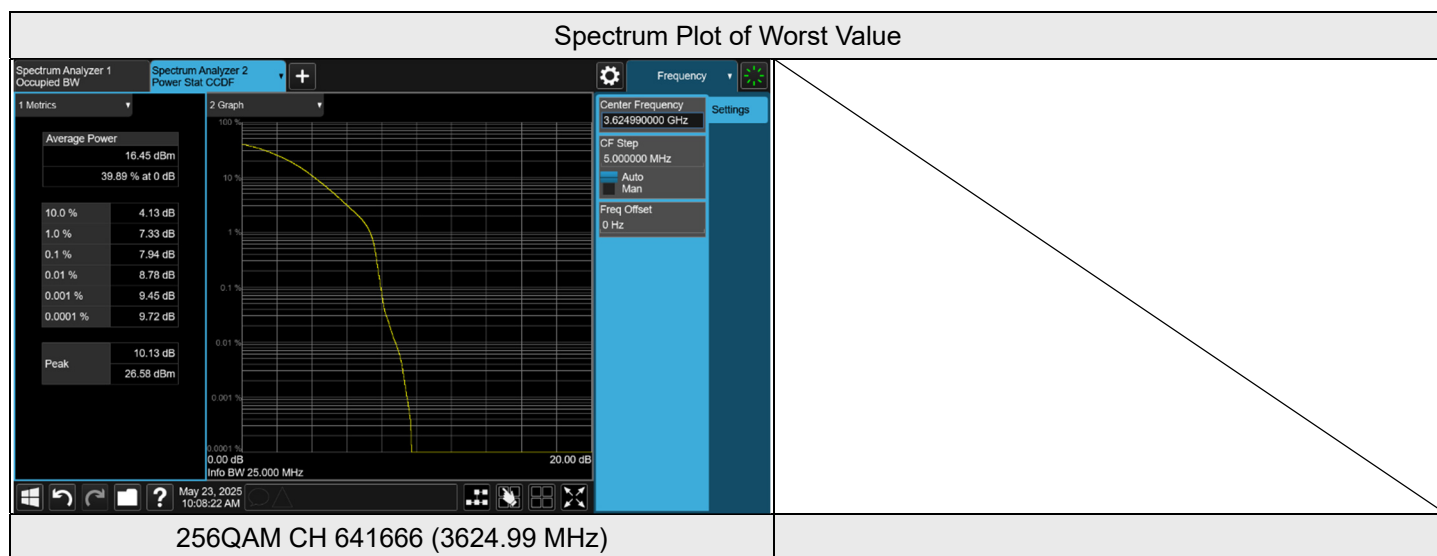
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 1, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
QPSK	1	37	6.91	6.67	6.73
	1	0	6.97	6.76	6.82
	38	0	6.93	6.70	6.73
16QAM	1	37	8.15	7.72	7.46
	1	0	8.24	7.79	7.54
	38	0	8.19	7.74	7.48
64QAM	1	37	7.43	8.00	7.51
	1	0	7.46	8.04	7.58
	38	0	7.39	7.97	7.54
256QAM	1	37	6.80	8.22	7.86
	1	0	6.88	8.27	7.90
	38	0	6.79	8.23	7.85



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

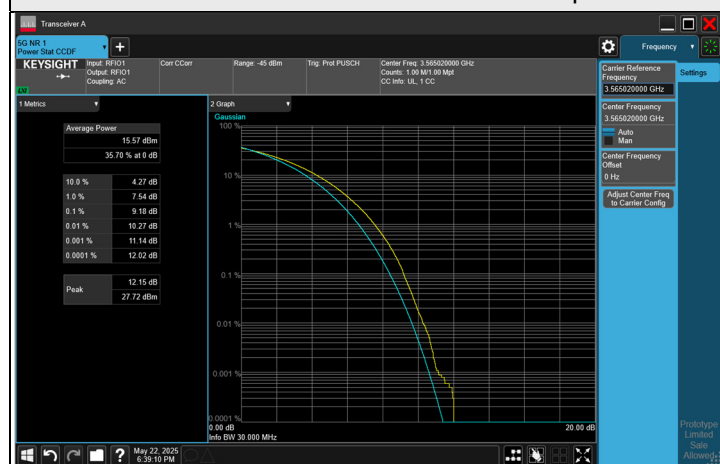
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
QPSK	1	50	6.67	6.10	6.66
	1	0	6.73	6.15	6.70
	51	0	6.65	6.07	6.65
16QAM	1	50	7.60	7.40	7.15
	1	0	7.65	7.46	7.22
	51	0	7.60	7.42	7.17
64QAM	1	50	6.79	7.62	7.71
	1	0	6.86	7.69	7.80
	51	0	6.82	7.63	7.71
256QAM	1	50	7.33	7.88	7.69
	1	0	7.42	7.94	7.76
	51	0	7.36	7.88	7.68



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

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
QPSK	1	77	7.54	7.71	7.09
	1	0	7.89	7.76	7.62
	78	0	7.87	7.97	7.96
16QAM	1	77	7.34	8.40	8.11
	1	0	7.59	8.30	8.41
	78	0	7.97	8.41	8.21
64QAM	1	77	8.42	7.82	8.48
	1	0	7.69	8.26	8.39
	78	0	8.19	8.47	8.68
256QAM	1	77	8.97	8.94	8.82
	1	0	8.37	8.39	8.37
	78	0	9.18	8.36	9.09

Spectrum Plot of Worst Value

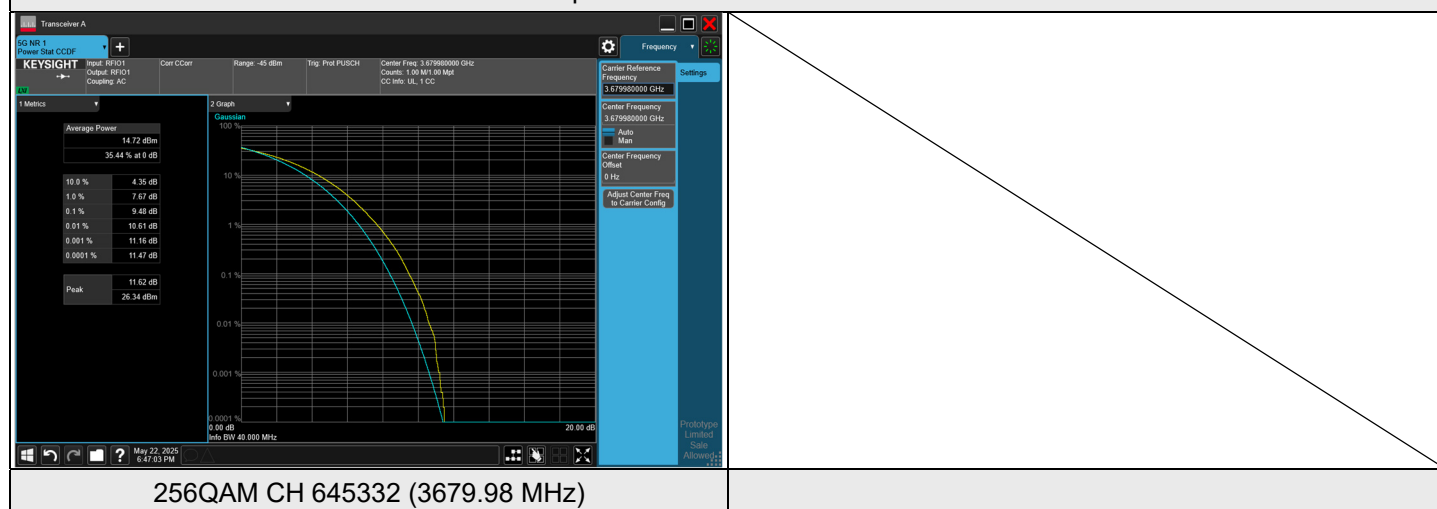


256QAM CH 637668 (3565.02 MHz)

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

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
QPSK	1	105	7.33	7.77	7.66
	1	0	7.74	8.40	7.60
	106	0	8.30	8.68	8.42
16QAM	1	105	6.97	7.18	8.00
	1	0	6.84	7.22	8.41
	106	0	8.19	8.30	8.23
64QAM	1	105	7.99	8.38	7.72
	1	0	7.77	8.42	8.18
	106	0	8.27	8.54	8.65
256QAM	1	105	8.40	8.35	8.62
	1	0	8.96	8.07	8.40
	106	0	8.39	8.57	9.48

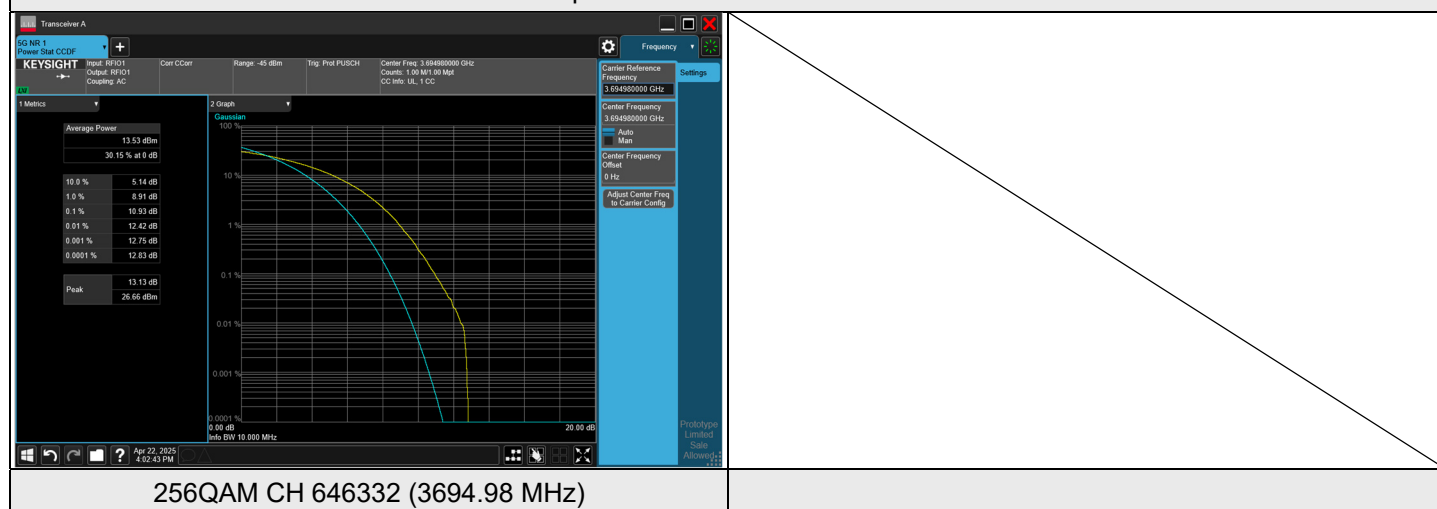
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637000	CH 641666	CH 646332
			3555 MHz	3624.99 MHz	3694.98 MHz
QPSK	1	23	7.57	7.67	8.24
	1	0	7.63	8.12	8.36
	24	0	8.29	8.21	8.04
16QAM	1	23	7.82	7.91	7.96
	1	0	8.05	8.16	7.98
	24	0	7.89	8.20	8.26
64QAM	1	23	7.86	7.80	7.75
	1	0	7.74	7.79	7.88
	24	0	8.19	8.42	8.26
256QAM	1	23	8.53	10.55	10.75
	1	0	8.32	10.54	10.75
	24	0	8.30	8.48	10.93

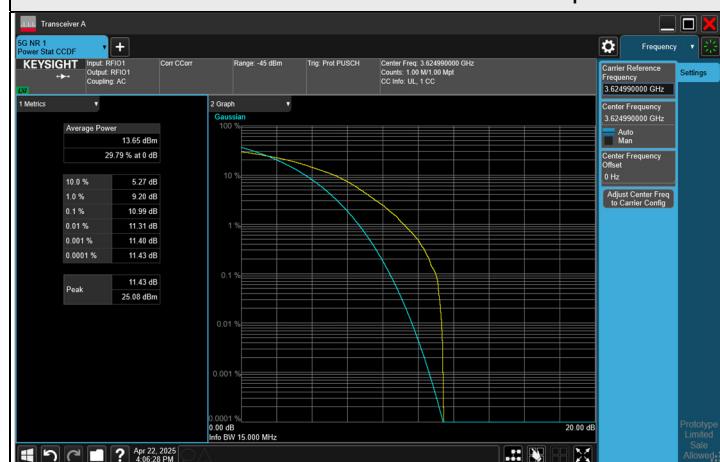
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
QPSK	1	37	8.26	8.21	8.28
	1	0	8.17	7.85	8.55
	38	0	8.03	8.20	8.21
16QAM	1	37	8.17	7.05	7.94
	1	0	7.58	7.14	7.51
	38	0	8.26	8.40	8.14
64QAM	1	37	7.95	7.77	7.92
	1	0	7.91	7.71	7.99
	38	0	8.19	8.48	8.31
256QAM	1	37	10.21	10.53	8.29
	1	0	10.86	10.99	8.49
	38	0	8.60	8.62	8.69

Spectrum Plot of Worst Value

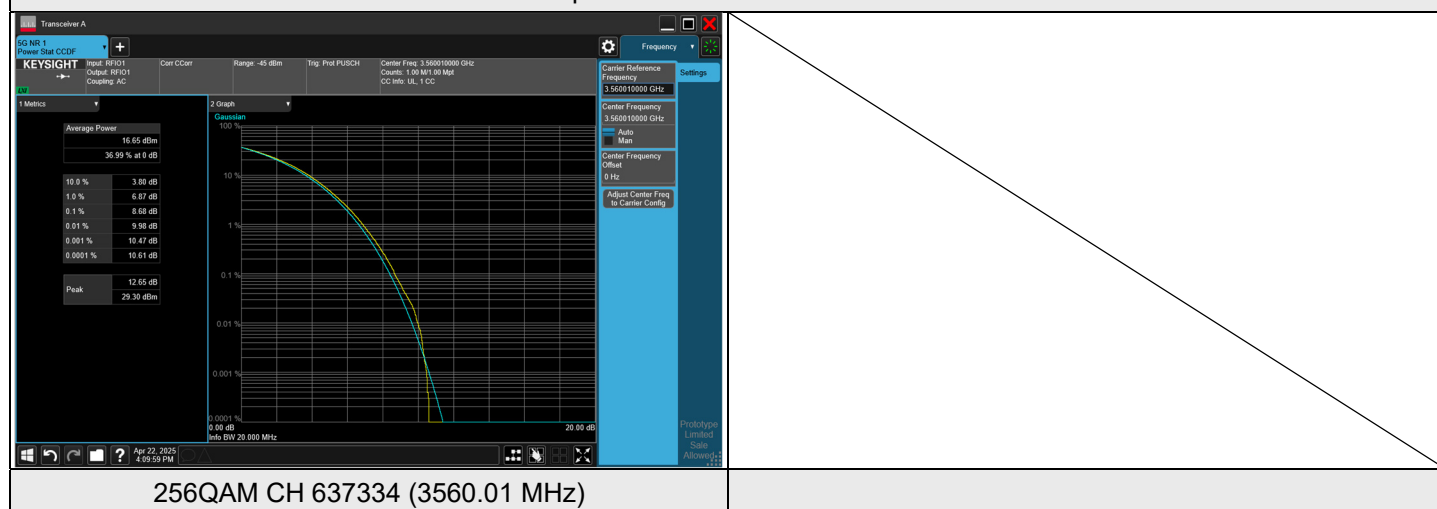


256QAM CH 641666 (3624.99 MHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
QPSK	1	50	8.25	7.59	7.64
	1	0	7.64	7.77	7.62
	51	0	8.19	8.33	8.25
16QAM	1	50	8.08	7.99	7.96
	1	0	7.89	8.09	8.10
	51	0	8.31	8.50	8.61
64QAM	1	50	8.06	7.80	7.91
	1	0	7.91	7.64	7.99
	51	0	8.25	8.44	8.20
256QAM	1	50	8.43	8.50	8.57
	1	0	8.47	8.42	8.39
	51	0	8.68	8.61	8.54

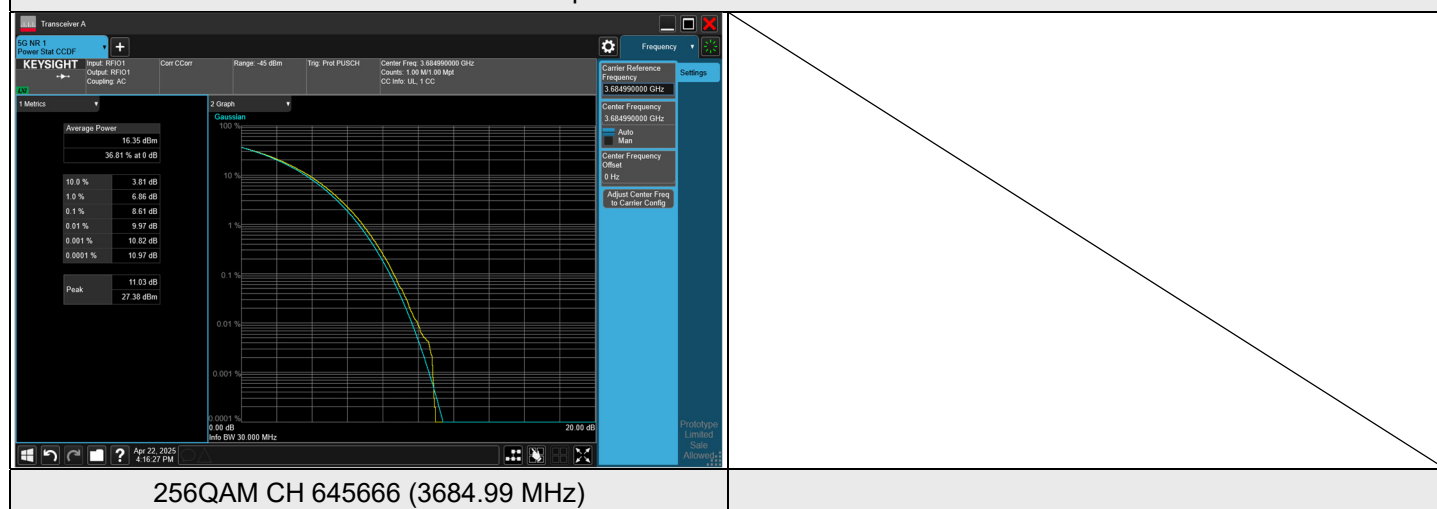
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
QPSK	1	77	7.80	7.29	7.51
	1	0	7.71	8.03	7.45
	78	0	7.97	8.10	8.42
16QAM	1	77	8.02	8.11	8.05
	1	0	7.65	8.23	7.98
	78	0	8.15	8.13	8.33
64QAM	1	77	8.05	7.90	7.87
	1	0	7.68	7.89	7.91
	78	0	8.07	8.17	8.11
256QAM	1	77	8.19	8.34	7.71
	1	0	8.43	8.37	8.21
	78	0	8.39	8.30	8.61

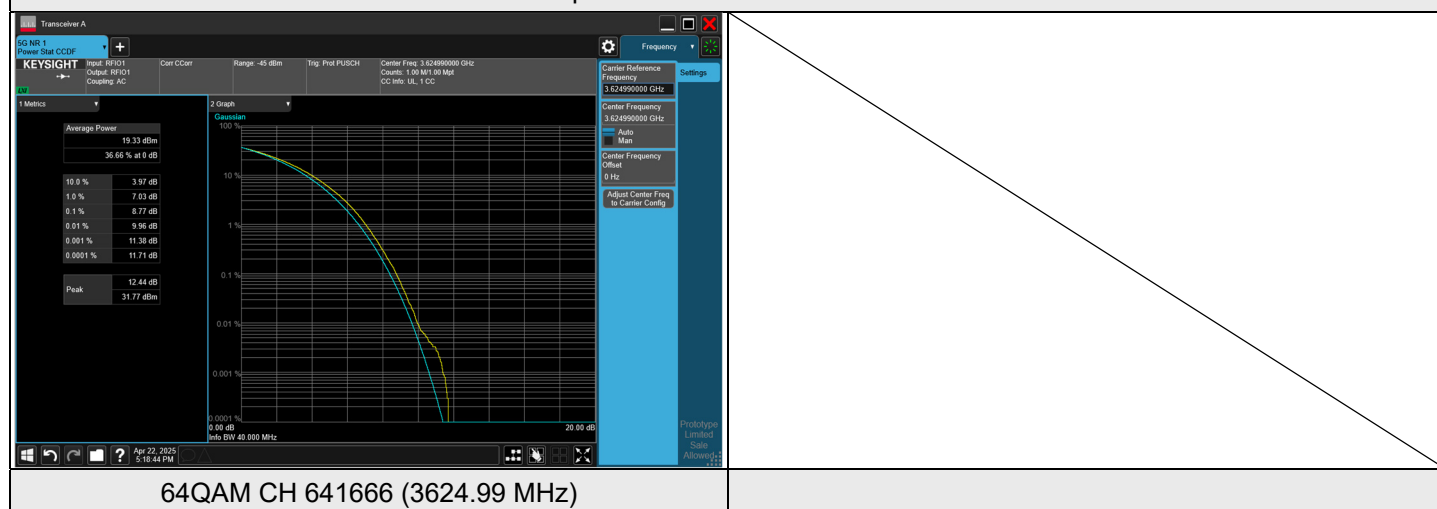
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
QPSK	1	105	7.94	7.96	8.01
	1	0	8.27	8.02	8.37
	106	0	8.10	8.33	8.29
16QAM	1	105	6.97	7.32	6.99
	1	0	7.28	6.89	6.86
	106	0	8.51	8.47	8.21
64QAM	1	105	7.74	7.73	7.74
	1	0	7.68	7.85	7.77
	106	0	8.30	8.77	8.32
256QAM	1	105	7.91	8.15	7.75
	1	0	7.74	7.90	8.04
	106	0	8.31	8.41	8.59

Spectrum Plot of Worst Value



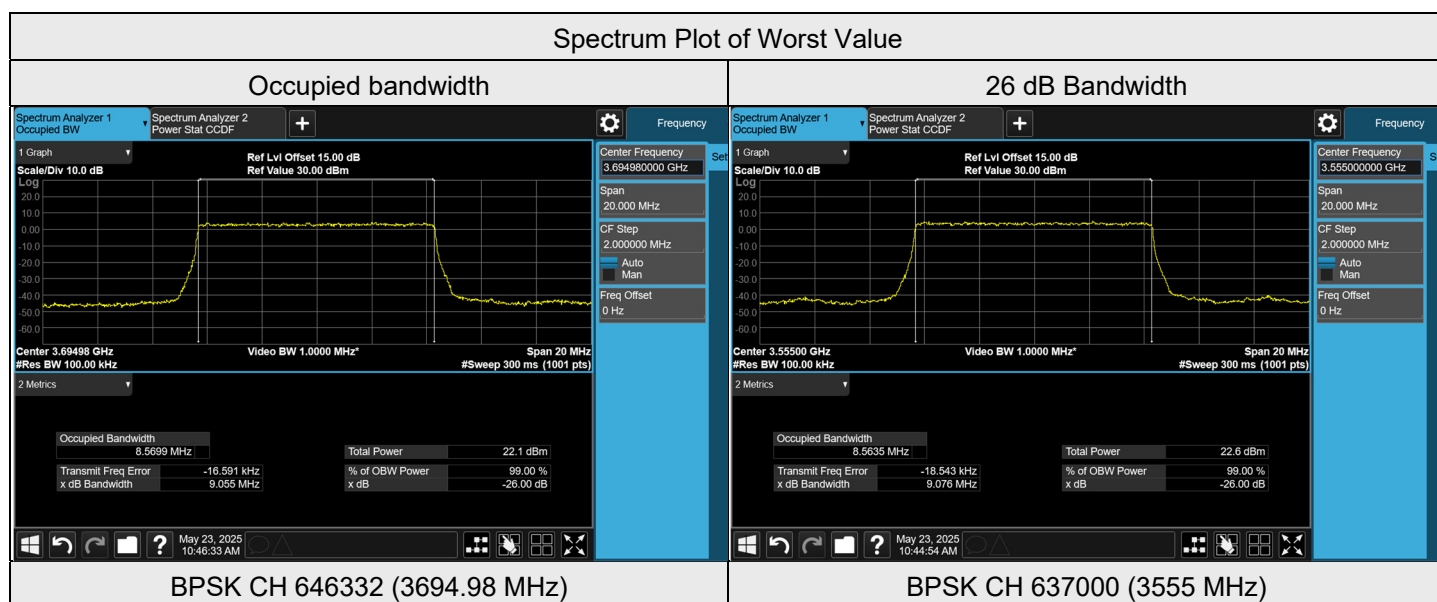
7.4 Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 70% RH	Tested By:	Willy Cheng
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7.4.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

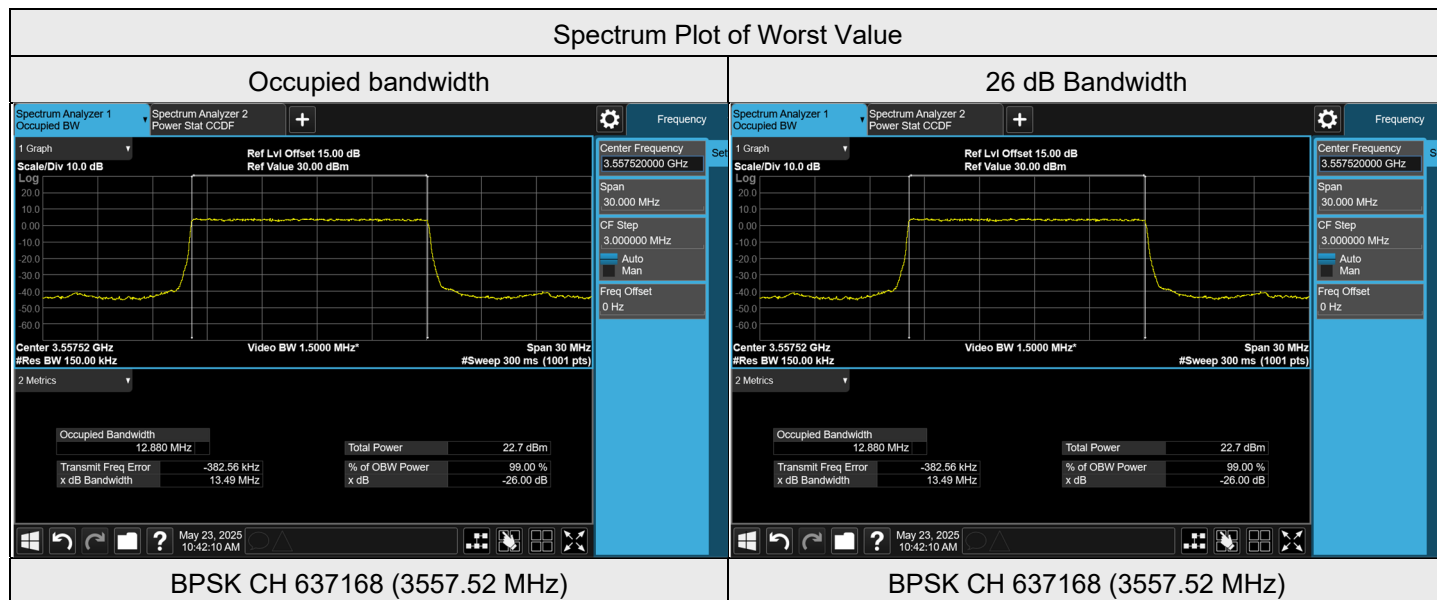
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637000	3555	8.5635	9.076
BPSK	641666	3624.99	8.5532	9.054
BPSK	646332	3694.98	8.5699	9.055



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637168	3557.52	12.880	13.49
BPSK	641666	3624.99	12.880	13.44
BPSK	646166	3692.49	12.870	13.47



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Ant 2, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637334	3560.01	17.828	18.55
BPSK	641666	3624.99	17.829	18.54
BPSK	646000	3690	17.854	18.55

