

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBBQZ-WTW-P25060387-10

FCC ID: PY325200649

Product: Nighthawk M7 Mobile Router

Brand: NETGEAR

Model No.: MH7150

Series Model: MH7110

Received Date: 2025/6/23

Test Date: 2025/8/8 ~ 2025/10/20

Issued Date: 2025/10/31

Applicant: NETGEAR, INC.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003 for Test Location(1)

Designation Number: 281270 / TW0032 for Test Location(2)

Approved by:



Jeremy Lin / Project Engineer

Date:

2025/10/31

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Prepared by : Celine Chou / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P25060387-10	Original release.	2025/10/31

1 Certificate

Product: Nighthawk M7 Mobile Router

Brand: NETGEAR

Test Model: MH7150

Series Model: MH7110

Sample Status: Engineering sample

Applicant: NETGEAR, INC.

Test Date: 2025/8/8 ~ 2025/10/20

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 -15.33 dB at 945.68 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -0.65 dB at 7110.00 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	18 GHz ~ 40 GHz	1.77 dB
	1 GHz ~ 18 GHz	1.76 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	3.00 dB
	30 MHz ~ 1 GHz	2.93 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB
Frequency Stability	-	0.176 ppm

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Nighthawk M7 Mobile Router
Brand	NETGEAR
Test Model	MH7150
Series Model	MH7110
Status of EUT	Engineering sample
Power Supply Rating	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
PC2 for Power Class	-
PC1.5 for Power Class	-
Band Covered Information	-

Note:

1. All models are listed as below.

Model	HW	FW	Difference
MH7150	Identical	Identical	SKU, Packing and labelling information Target retail markets
MH7110			SKU, Packing and labelling information Target service provider markets

2. The EUT uses following accessories.

Item	Brand	Model	Specification
Battery	NETGEAR	NW-1	Power Rating: 3.85 Vdc, 14.82 Wh, 3850 mAh
Type C Cable 1	JI-HAW ELECTRONICS CO., LTD	310-10091-01	0.95 m
Type C Cable 2	HUIZHOU BOHUI CONNECTION TECHNOLOGY CO., LTD	310-10089-01	0.95 m

3. EUT Overview

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	0.185	22.68	8M58G7D
		QPSK	0.189	22.77	8M58G7D
		16QAM	0.152	21.82	8M59D7W
		64QAM	0.12	20.8	8M59D7W
		256QAM	0.067	18.23	8M57D7W
15 MHz	3557.52 ~ 3692.49	BPSK	0.185	22.66	12M9G7D
		QPSK	0.189	22.76	13M6G7D
		16QAM	0.151	21.8	13M6D7W
		64QAM	0.121	20.82	13M6D7W
		256QAM	0.067	18.26	13M6D7W
20 MHz	3560.01 ~ 3690	BPSK	0.184	22.64	17M9G7D
		QPSK	0.188	22.75	18M2G7D
		16QAM	0.151	21.78	18M2D7W
		64QAM	0.119	20.77	18M2D7W
		256QAM	0.067	18.24	18M2D7W
30 MHz	3565.02 ~ 3684.99	BPSK	0.181	22.57	26M8G7D
		QPSK	0.186	22.69	27M9G7D
		16QAM	0.15	21.76	27M8D7W
		64QAM	0.12	20.78	27M9D7W
		256QAM	0.067	18.24	27M9D7W
40 MHz	3570 ~ 3679.98	BPSK	0.187	22.72	35M8G7D
		QPSK	0.191	22.81	37M9G7D
		16QAM	0.153	21.85	37M9D7W
		64QAM	0.122	20.86	37M9D7W
		256QAM	0.068	18.33	37M9D7W

- 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.

Type		Monopole				
Connector		NA				
Band		Freq. Range (MHz)	Gain (dBi)			
			Ant. 0	Ant. 1	Ant. 2	Ant. 3
5G NR n2	1TX (Ant. 0) 2TX (Ant. 0 + 3)	1850~1910	1.27	-	-	2.76
5G NR n5	1TX (Ant. 0)	824 ~ 849	-3.63	-	-	-0.98
5G NR n7	1TX (Ant. 3) 2TX (Ant. 0 + 3)	2500 ~ 2570	1.52	-	-	3.00
5G NR n12	1TX (Ant. 0)	698 ~ 716	-0.26	-	-	-1.36
5G NR n13	1TX (Ant. 0)	777 ~ 787	-0.26	-	-	-0.98
5G NR n14	1TX (Ant. 0)	788 ~ 798	-0.26	-	-	-0.98
5G NR n25	1TX (Ant. 0) 2TX (Ant. 0 + 3)	1850 ~ 1915	1.27	-	-	2.76
5G NR n26	1TX (Ant. 0)	814 ~ 849	-3.63	-	-	-0.98
5G NR n30	1TX (Ant. 3) 2TX (Ant. 0 + 3)	2305 ~ 2315	1.12	-	-	1.15
5G NR n38	1TX (Ant. 3) 2TX (Ant. 0 + 3)	2570 ~ 2620	1.52	-	-	3.00
5G NR n41	1TX (Ant. 3) 2TX (Ant. 0 + 3)	2496 ~ 2690	1.52	2.22	2.58	3.00
5G NR n48	1TX (Ant. 0) 2TX (Ant. 0 + 3)	3550 ~ 3700	1.18	-	-	2.00
5G NR n66	1TX (Ant. 0) 2TX (Ant. 0 + 3)	1710 ~ 1780	1.50	-	-	3.50
5G NR n70	1TX (Ant. 0) 2TX (Ant. 0 + 3)	1695 ~ 1720	1.50	-	-	3.50
5G NR n71	1TX (Ant. 3)	663 ~ 698	-0.26	-	-	-2.86
5G NR n77	1TX (Ant. 0) 2TX (Ant. 0 + 3)	3300 ~ 4200	4.00	1.88	4.00	3.09
5G NR n78	1TX (Ant. 0) 2TX (Ant. 0 + 3)	3300 ~ 3800	4.00	1.88	4.00	3.09

* 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.

* The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

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. EUT can be used in the following Type C cables: Type C Cable 1/ Type C Cable 2. Pre-scan these ways and find the worst case as a representative test condition. 3. 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:	1. X-axis/ Y-axis / Z-axis Worst Condition: X-axis 2. Type C Cable 1/ Type C Cable 2 Worst Condition: Type C Cable 1

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

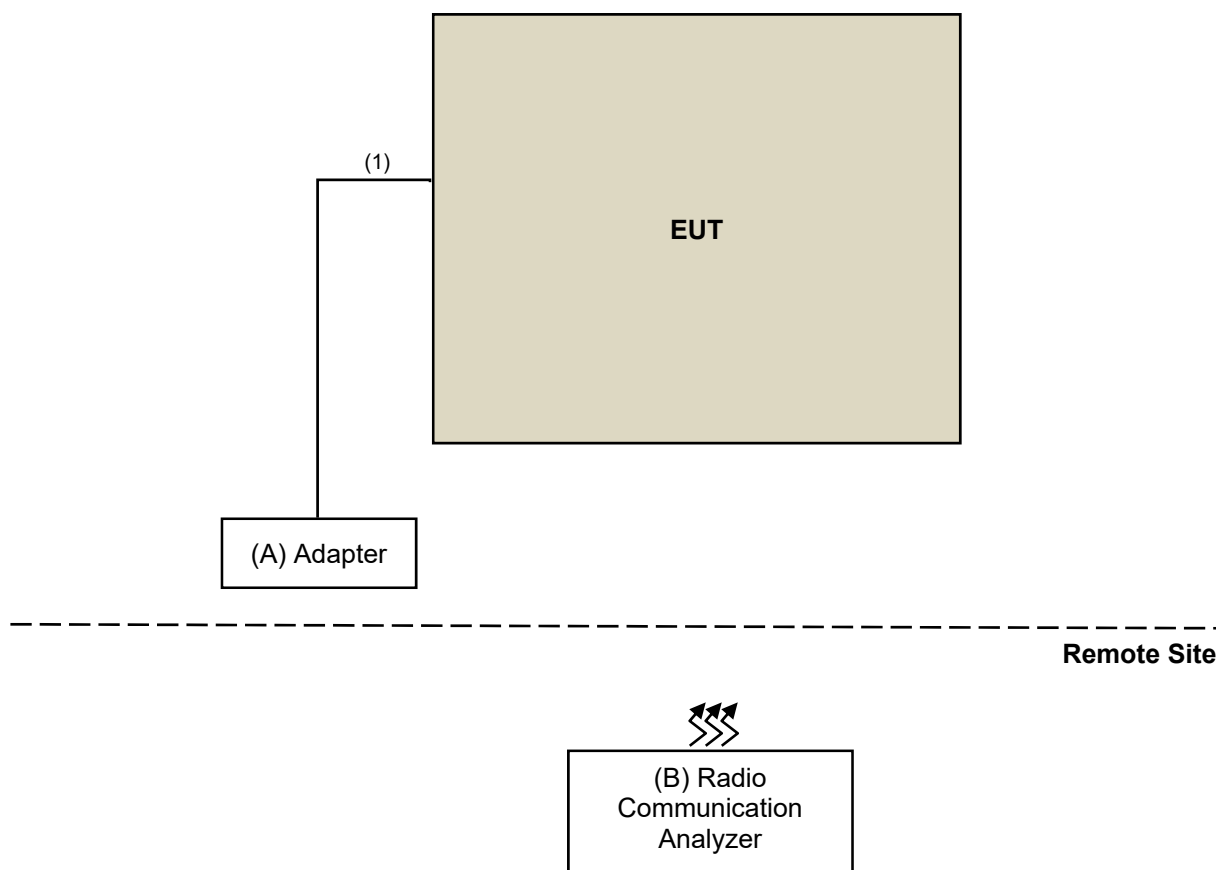
Test Item	Power Class	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	PC3	1TX (Ant. 0) 2TX (Ant. 0 + 3)	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
			637168(3557.52 MHz) 641666(3624.99 MHz) 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
Modulation Characteristics	PC3	2TX (Ant. 0 + 3)	641666(3624.99 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3	2TX (Ant. 0 + 3)	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
			637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
			637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
			637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
			638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Power Class	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	PC3	2TX (Ant. 0 + 3)	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
			637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
			637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
			637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
			638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3	2TX (Ant. 0 + 3)	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	PC3	2TX (Ant. 0 + 3)	637334(3560.01 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3	1TX (Ant. 0) 2TX (Ant. 0 + 3)	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	PC3	2TX (Ant. 0 + 3)	638000(3570.00 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	Full RB

3.4 Test Program Used and Operation Descriptions

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

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	belkin	WCB007dq	N/A	N/A	Provided by Lab
B	Radio Communication Test Station	Anritsu	MT8000A	6272278595	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type C Cable	1	0.95	No	0	Supplied by applicant

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
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna RFSPIN	DRH18-E	210104A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY52260177	2025/10/3	2026/10/2
Preamplifier Agilent	83017A	MY39501357	2025/6/11	2026/6/10
Preamplifier EMCI	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
	EMC101G-KM-KM-3000	201258	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210103	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201241	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201244	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/10/16 ~ 2025/10/17

4.2 Modulation Characteristics

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2025/4/8	2026/4/7
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 Oven room.
2. Tested Date: 2025/10/20

4.3 Peak to Average Ratio

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

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/8/8 ~ 2025/8/9

4.4 Bandwidth

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

4.5 Conducted Spurious Emissions

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

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/8/8 ~ 2025/10/8

4.6 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1214	2024/10/15	2025/10/14
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	64095	2024/10/17	2025/10/16
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier EMCI	EMC330N	980798	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201248	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-3000	201249	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-9000	201251(with PAD)	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/9/3

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna RFSPIN	DRH18-E	210104A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier Agilent	83017A	MY39501357	2025/6/11	2026/6/10
Preamplifier EMCI	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
	EMC101G-KM-KM-3000	201258	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210103	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201241	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201244	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/8/29 ~ 2025/9/1

4.8 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply OWON	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	8050A	4660081	2025/6/6	2026/6/5
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920842	2025/6/25	2026/6/24

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/10/18

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 -40dBm/MHz.

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

5.6 Radiated Spurious Emissions below 1GHz

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

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

5.7 Radiated Spurious Emissions above 1GHz

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

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

5.8 Frequency Stability

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

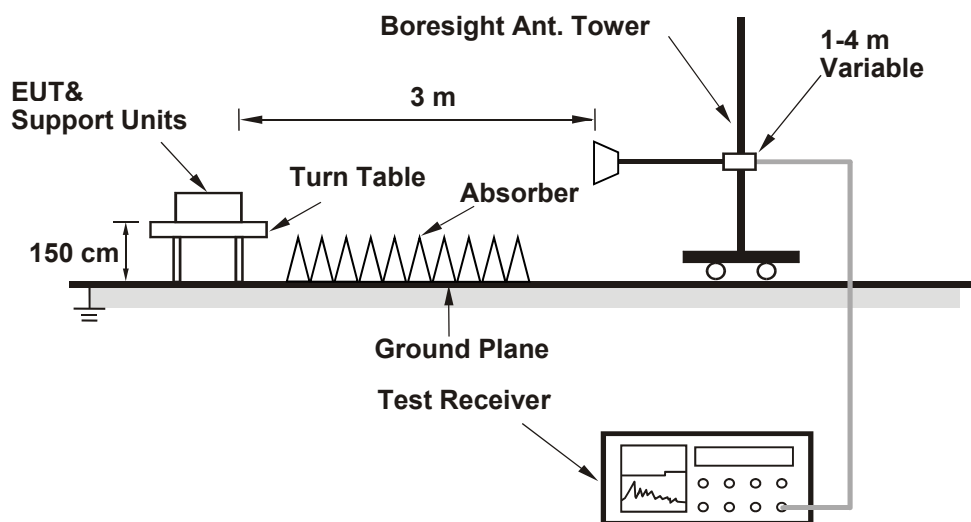
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation (authorized frequency block).

6 Test Arrangements

6.1 Maximum EIRP

6.1.1 Test Setup

Radiated Power EIRP / ERP Measurement:



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

6.1.2 Test Procedure

Radiated Power EIRP / ERP Measurement:

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

Set the EUT to transmit under low, middle and high channel and record the power level shown on spectrum analyzer.

- a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 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 C63.26 section 5.5 and 5.2.7. Set the detector to power averaging (rms) detector.
- $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
 - $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

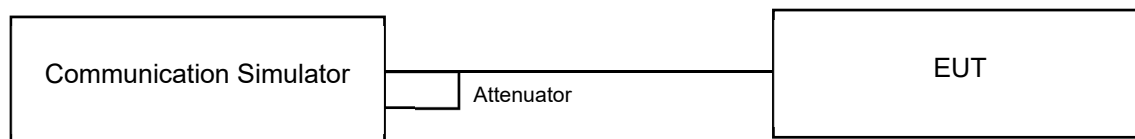
Spectrum analyzer setting as below:

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 and full bandwidth, according to the 47 CFR FCC Part 96 standard.
- j. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW band edges.
- k. If Duty cycle < 98%, Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

6.2 Modulation Characteristics

6.2.1 Test Setup

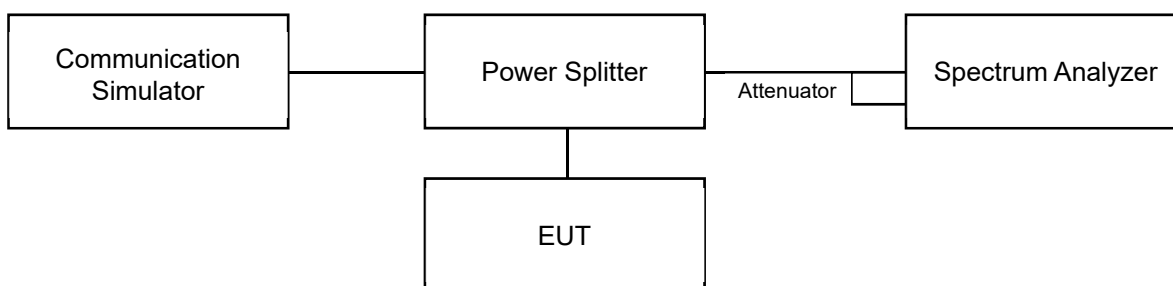


6.2.2 Test Procedure

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

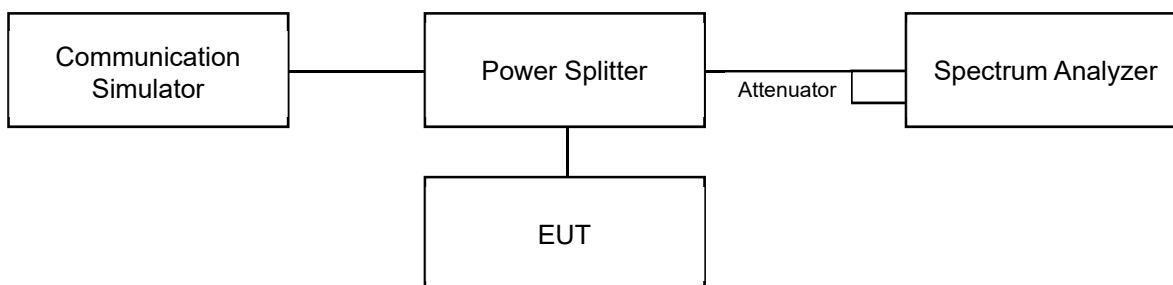


6.3.2 Test Procedure

- 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.

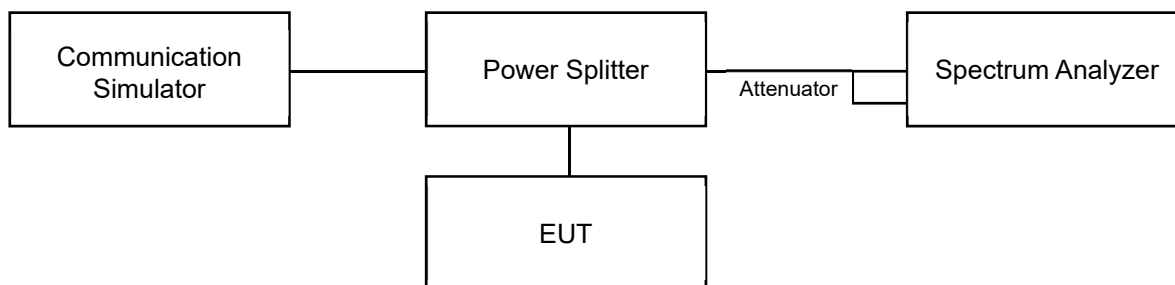
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and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



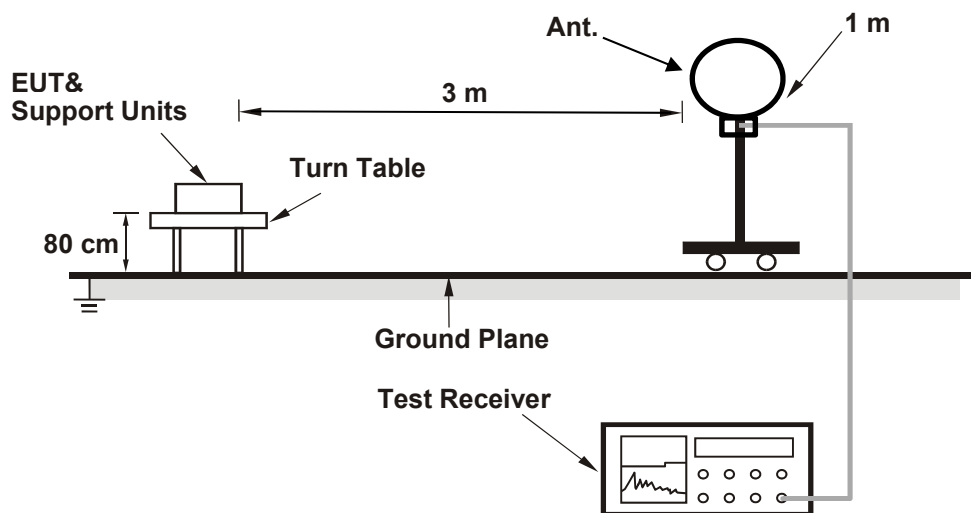
6.5.2 Test Procedure

- 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.

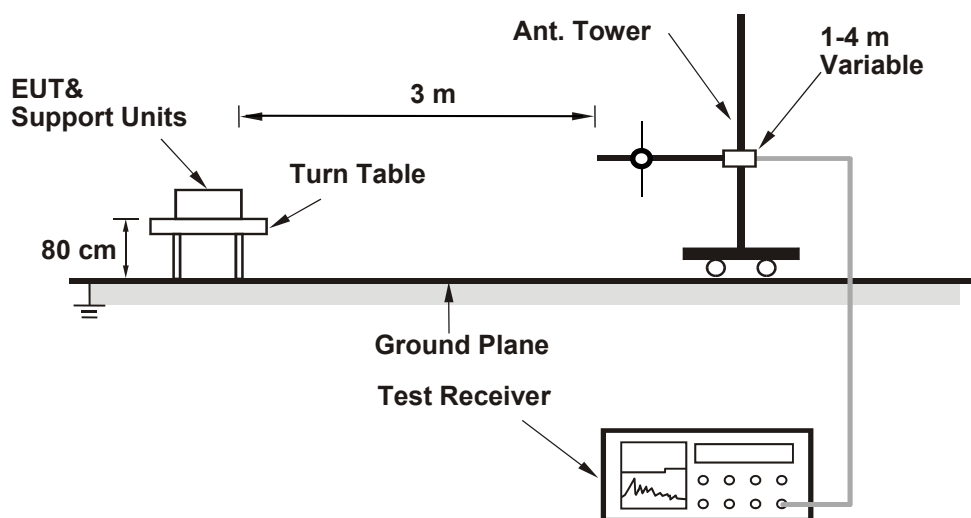
6.6 Radiated Spurious Emissions below 1GHz

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.

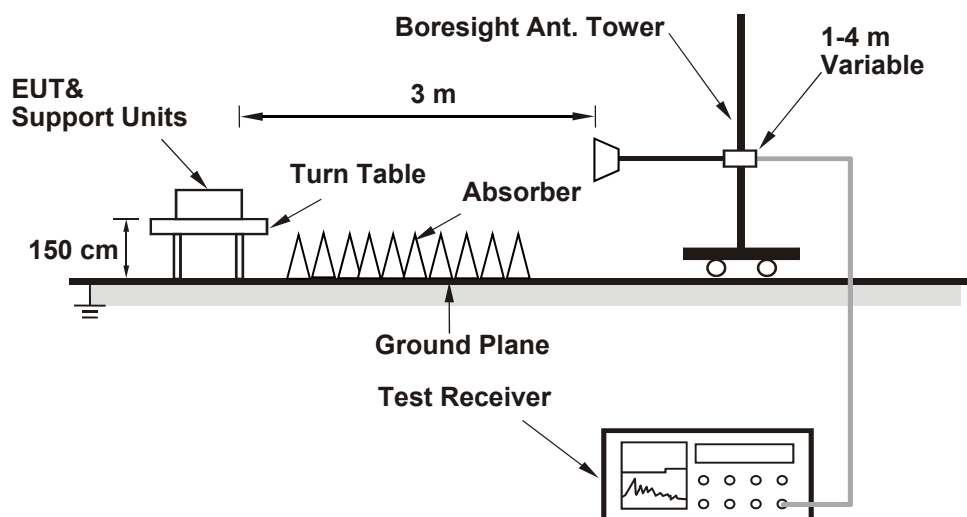
Note:

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

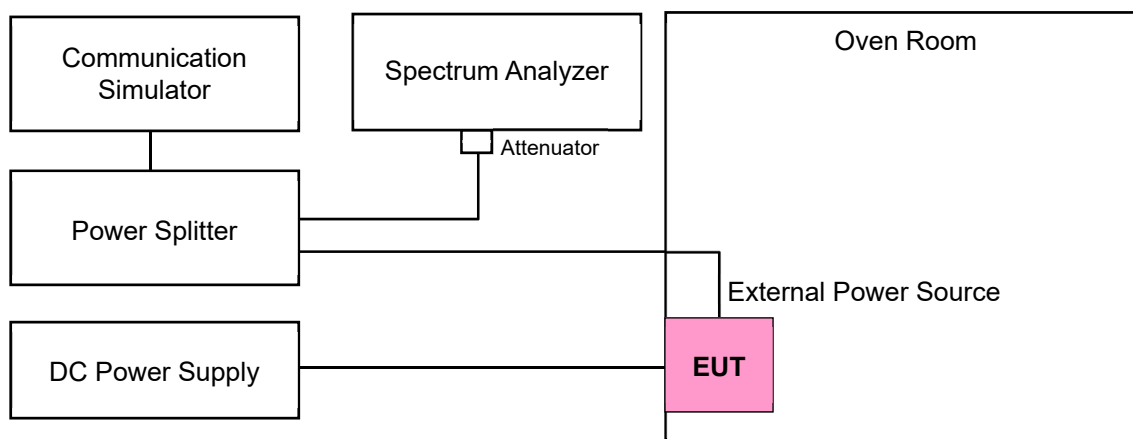
The EUT is configured to set data modulation and maximum power using WWAN technology.

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

Note: 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:	25°C, 60% RH	Tested By:	Greg Lin
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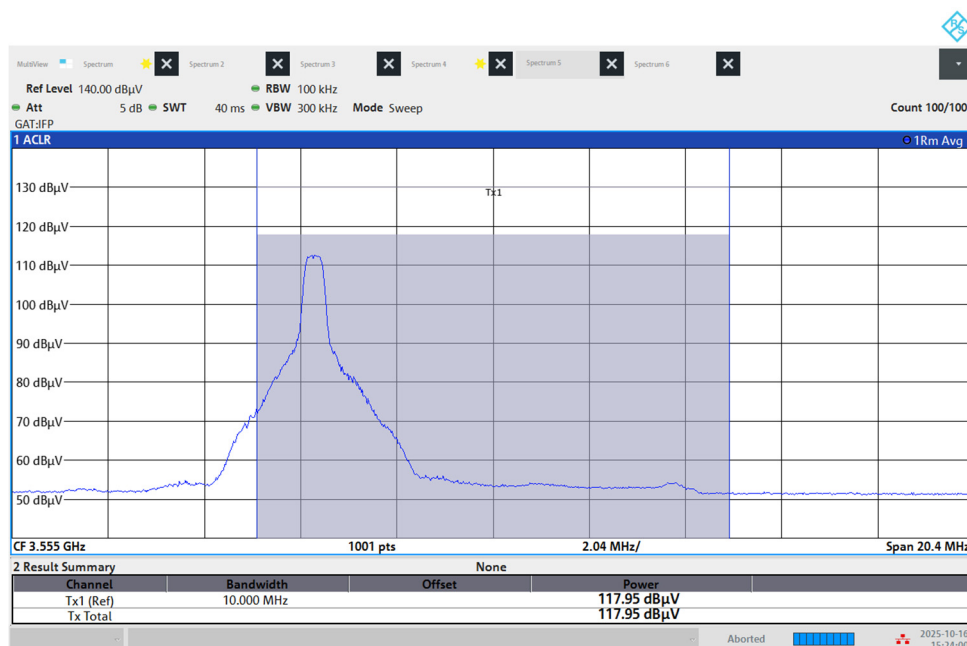
7.1.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - SISO

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637000	3555	117.84	-95.26	181.134	22.58	23
	641666	3624.99	117.68	-95.26	174.582	22.42	23
	646333	3694.98	117.83	-95.26	180.717	22.57	23
QPSK	637000	3555	117.95	-95.26	185.780	22.69	23
	641666	3624.99	117.79	-95.26	179.061	22.53	23
	646333	3694.98	117.94	-95.26	185.353	22.68	23
16QAM	637000	3555	117.02	-95.26	149.968	21.76	23
	641666	3624.99	116.85	-95.26	144.212	21.59	23
	646333	3694.98	116.97	-95.26	148.252	21.71	23
64QAM	637000	3555	116.00	-95.26	118.577	20.74	23
	641666	3624.99	115.86	-95.26	114.815	20.60	23
	646333	3694.98	115.97	-95.26	117.761	20.71	23
256QAM	637000	3555	113.44	-95.26	65.766	18.18	23
	641666	3624.99	113.31	-95.26	63.826	18.05	23
	646333	3694.98	113.41	-95.26	65.313	18.15	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), SISO, Channel Bandwidth: 15 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637168	3557.52	117.92	-95.26	184.502	22.66	23
	641666	3624.99	117.81	-95.26	179.887	22.55	23
	646166	3692.49	117.69	-95.26	174.985	22.43	23
QPSK	637168	3557.52	118.02	-95.26	188.799	22.76	23
	641666	3624.99	117.90	-95.26	183.654	22.64	23
	646166	3692.49	117.80	-95.26	179.473	22.54	23
16QAM	637168	3557.52	117.06	-95.26	151.356	21.80	23
	641666	3624.99	116.96	-95.26	147.911	21.70	23
	646166	3692.49	116.83	-95.26	143.549	21.57	23
64QAM	637168	3557.52	116.08	-95.26	120.781	20.82	23
	641666	3624.99	115.94	-95.26	116.950	20.68	23
	646166	3692.49	115.81	-95.26	113.501	20.55	23
256QAM	637168	3557.52	113.52	-95.26	66.988	18.26	23
	641666	3624.99	113.40	-95.26	65.163	18.14	23
	646166	3692.49	113.28	-95.26	63.387	18.02	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

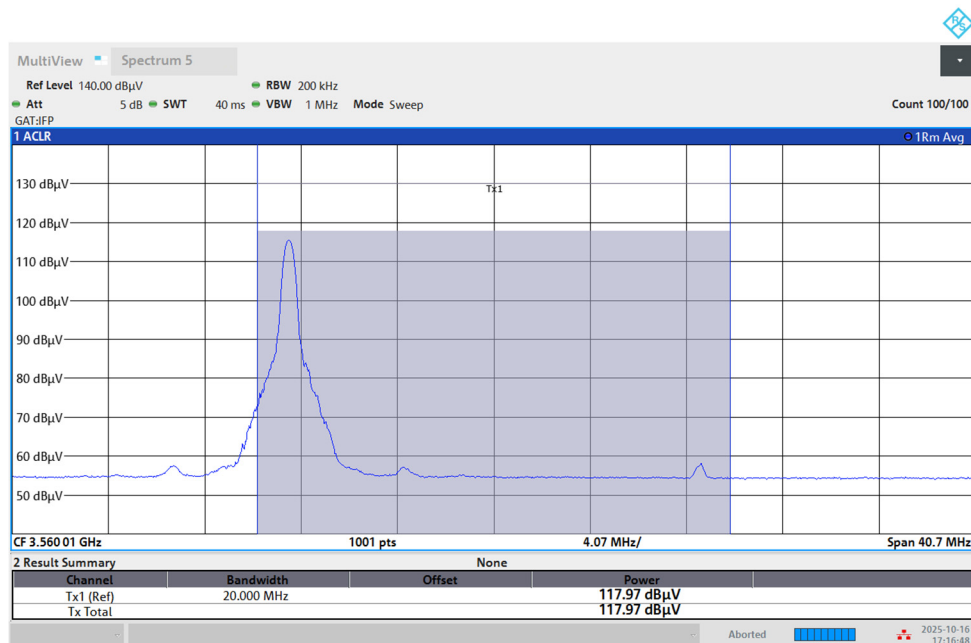


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), SISO, Channel Bandwidth: 20 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637334	3560.01	117.85	-95.26	181.552	22.59	23
	641666	3624.99	117.80	-95.26	179.473	22.54	23
	646000	3690	117.77	-95.26	178.238	22.51	23
QPSK	637334	3560.01	117.97	-95.26	186.638	22.71	23
	641666	3624.99	117.90	-95.26	183.654	22.64	23
	646000	3690	117.89	-95.26	183.231	22.63	23
16QAM	637334	3560.01	117.00	-95.26	149.279	21.74	23
	641666	3624.99	116.96	-95.26	147.911	21.70	23
	646000	3690	116.95	-95.26	147.571	21.69	23
64QAM	637334	3560.01	116.01	-95.26	118.850	20.75	23
	641666	3624.99	115.98	-95.26	118.032	20.72	23
	646000	3690	115.96	-95.26	117.490	20.70	23
256QAM	637334	3560.01	113.48	-95.26	66.374	18.22	23
	641666	3624.99	113.43	-95.26	65.615	18.17	23
	646000	3690	113.39	-95.26	65.013	18.13	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

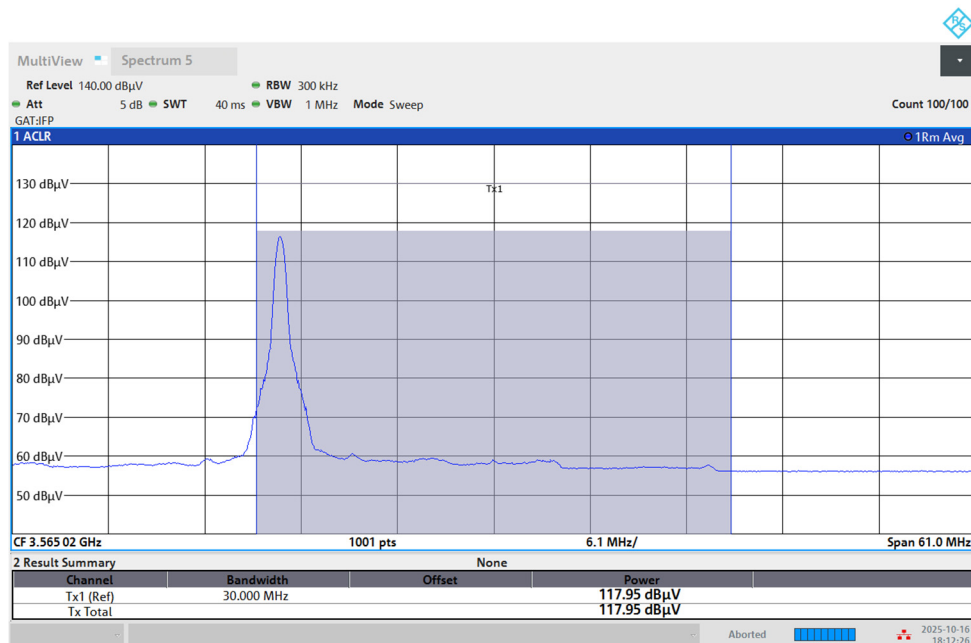


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), SISO, Channel Bandwidth: 30 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637668	3565.02	117.83	-95.26	180.717	22.57	23
	641666	3624.99	117.80	-95.26	179.473	22.54	23
	645666	3684.99	117.68	-95.26	174.582	22.42	23
QPSK	637668	3565.02	117.95	-95.26	185.780	22.69	23
	641666	3624.99	117.91	-95.26	184.077	22.65	23
	645666	3684.99	117.76	-95.26	177.828	22.50	23
16QAM	637668	3565.02	117.02	-95.26	149.968	21.76	23
	641666	3624.99	116.96	-95.26	147.911	21.70	23
	645666	3684.99	116.83	-95.26	143.549	21.57	23
64QAM	637668	3565.02	116.04	-95.26	119.674	20.78	23
	641666	3624.99	115.98	-95.26	118.032	20.72	23
	645666	3684.99	115.82	-95.26	113.763	20.56	23
256QAM	637668	3565.02	113.50	-95.26	66.681	18.24	23
	641666	3624.99	113.44	-95.26	65.766	18.18	23
	645666	3684.99	113.27	-95.26	63.241	18.01	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

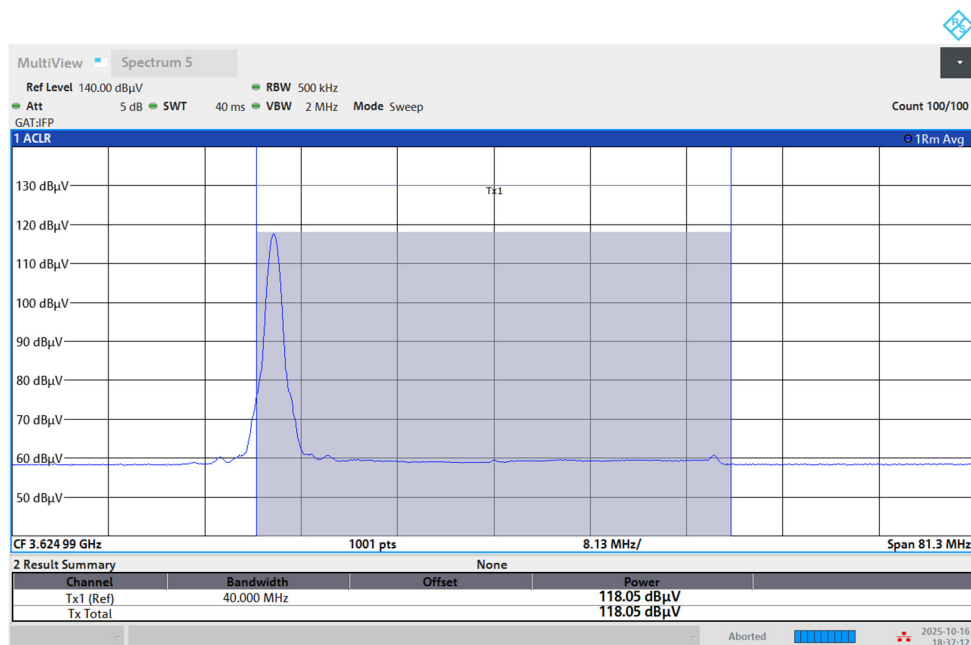


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), SISO, Channel Bandwidth: 40 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	638000	3570	117.81	-95.26	179.887	22.55	23
	641666	3624.99	117.98	-95.26	187.068	22.72	23
	645332	3679.98	117.89	-95.26	183.231	22.63	23
QPSK	638000	3570	117.93	-95.26	184.927	22.67	23
	641666	3624.99	118.05	-95.26	190.108	22.79	23
	645332	3679.98	117.97	-95.26	186.638	22.71	23
16QAM	638000	3570	116.96	-95.26	147.911	21.70	23
	641666	3624.99	117.10	-95.26	152.757	21.84	23
	645332	3679.98	117.02	-95.26	149.968	21.76	23
64QAM	638000	3570	115.96	-95.26	117.490	20.70	23
	641666	3624.99	116.12	-95.26	121.899	20.86	23
	645332	3679.98	116.01	-95.26	118.850	20.75	23
256QAM	638000	3570	113.40	-95.26	65.163	18.14	23
	641666	3624.99	113.59	-95.26	68.077	18.33	23
	645332	3679.98	113.44	-95.26	65.766	18.18	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

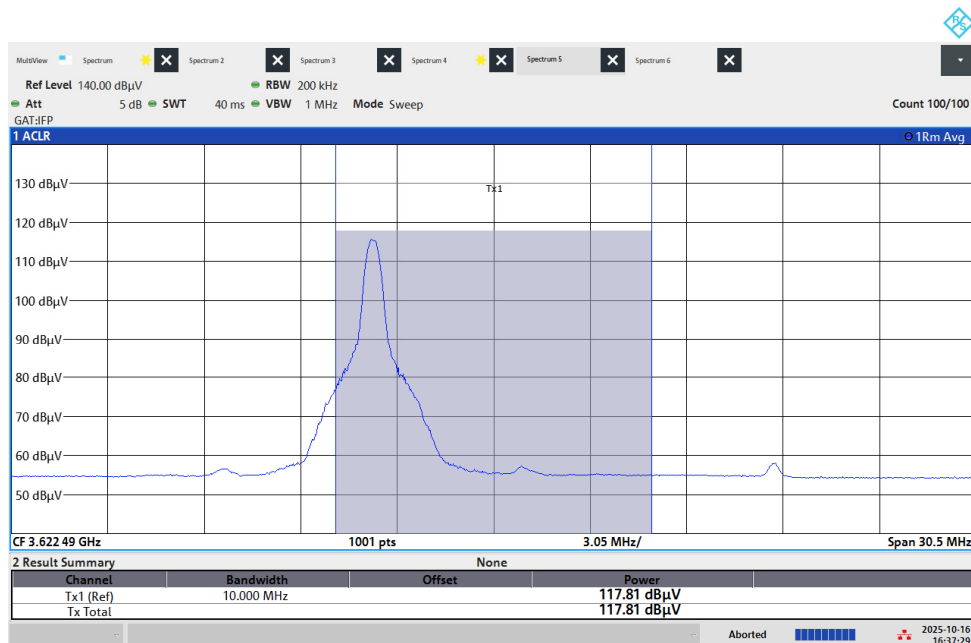


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), SISO, Channel Bandwidth: 15 MHz, Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637168	3557.52	117.63	-95.26	172.584	22.37	23
	641666	3624.99	117.73	-95.26	176.604	22.47	23
	646166	3692.49	117.46	-95.26	165.959	22.20	23
QPSK	637168	3557.52	117.74	-95.26	177.011	22.48	23
	641666	3624.99	117.81	-95.26	179.887	22.55	23
	646166	3692.49	117.55	-95.26	169.434	22.29	23
16QAM	637168	3557.52	116.78	-95.26	141.906	21.52	23
	641666	3624.99	116.87	-95.26	144.877	21.61	23
	646166	3692.49	116.58	-95.26	135.519	21.32	23
64QAM	637168	3557.52	115.79	-95.26	112.980	20.53	23
	641666	3624.99	115.89	-95.26	115.611	20.63	23
	646166	3692.49	115.58	-95.26	107.647	20.32	23
256QAM	637168	3557.52	113.23	-95.26	62.661	17.97	23
	641666	3624.99	113.36	-95.26	64.565	18.10	23
	646166	3692.49	113.03	-95.26	59.841	17.77	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.



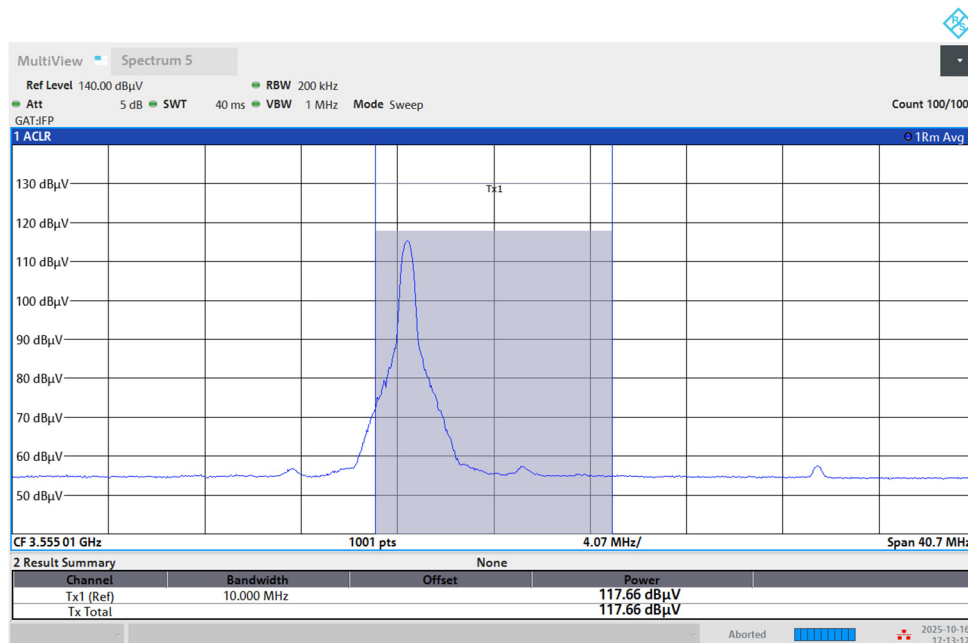
Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dB μ V/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637334	3560.01	117.55	-95.26	169.434	22.29	23
	641666	3624.99	117.44	-95.26	165.196	22.18	23
	646000	3690	117.45	-95.26	165.577	22.19	23
QPSK	637334	3560.01	117.66	-95.26	173.780	22.40	23
	641666	3624.99	117.55	-95.26	169.434	22.29	23
	646000	3690	117.57	-95.26	170.216	22.31	23
16QAM	637334	3560.01	116.72	-95.26	139.959	21.46	23
	641666	3624.99	116.61	-95.26	136.458	21.35	23
	646000	3690	116.63	-95.26	137.088	21.37	23
64QAM	637334	3560.01	115.71	-95.26	110.917	20.45	23
	641666	3624.99	115.60	-95.26	108.143	20.34	23
	646000	3690	115.61	-95.26	108.393	20.35	23
256QAM	637334	3560.01	113.14	-95.26	61.376	17.88	23
	641666	3624.99	113.06	-95.26	60.256	17.80	23
	646000	3690	113.08	-95.26	60.534	17.82	23

Notes:

1. EIRP (dBm) = Field Strength (dB μ V/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.



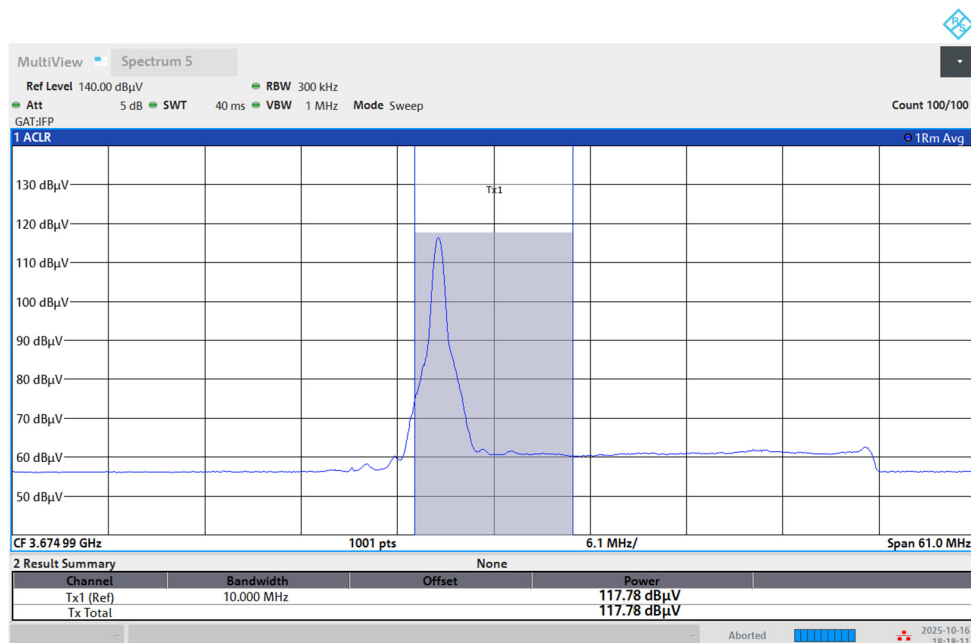
Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637668	3565.02	117.45	-95.26	165.577	22.19	23
	641666	3624.99	117.54	-95.26	169.044	22.28	23
	645666	3684.99	117.70	-95.26	175.388	22.44	23
QPSK	637668	3565.02	117.55	-95.26	169.434	22.29	23
	641666	3624.99	117.63	-95.26	172.584	22.37	23
	645666	3684.99	117.78	-95.26	178.649	22.52	23
16QAM	637668	3565.02	116.59	-95.26	135.831	21.33	23
	641666	3624.99	116.69	-95.26	138.995	21.43	23
	645666	3684.99	116.84	-95.26	143.880	21.58	23
64QAM	637668	3565.02	115.57	-95.26	107.399	20.31	23
	641666	3624.99	115.69	-95.26	110.408	20.43	23
	645666	3684.99	115.86	-95.26	114.815	20.60	23
256QAM	637668	3565.02	113.02	-95.26	59.704	17.76	23
	641666	3624.99	113.16	-95.26	61.660	17.90	23
	645666	3684.99	113.33	-95.26	64.121	18.07	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.



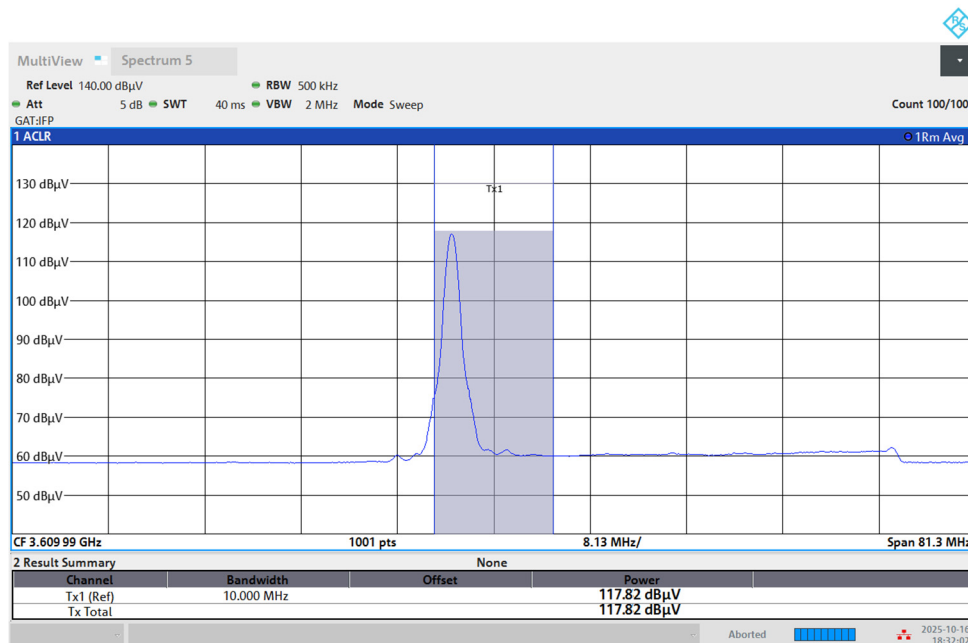
Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dB μ V/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	638000	3570	117.47	-95.26	166.341	22.21	23
	641666	3624.99	117.74	-95.26	177.011	22.48	23
	645332	3679.98	117.76	-95.26	177.828	22.50	23
QPSK	638000	3570	117.58	-95.26	170.608	22.32	23
	641666	3624.99	117.82	-95.26	180.302	22.56	23
	645332	3679.98	117.73	-95.26	176.604	22.47	23
16QAM	638000	3570	116.63	-95.26	137.088	21.37	23
	641666	3624.99	116.89	-95.26	145.546	21.63	23
	645332	3679.98	116.88	-95.26	145.211	21.62	23
64QAM	638000	3570	115.61	-95.26	108.393	20.35	23
	641666	3624.99	115.88	-95.26	115.345	20.62	23
	645332	3679.98	115.90	-95.26	115.878	20.64	23
256QAM	638000	3570	113.04	-95.26	59.979	17.78	23
	641666	3624.99	113.33	-95.26	64.121	18.07	23
	645332	3679.98	113.33	-95.26	64.121	18.07	23

Notes:

1. EIRP (dBm) = Field Strength (dB μ V/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.



Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

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	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637000	3555	117.94	-95.26	185.353	22.68	23
	641666	3624.99	117.79	-95.26	179.061	22.53	23
	646333	3694.98	117.80	-95.26	179.473	22.54	23
QPSK	637000	3555	118.03	-95.26	189.234	22.77	23
	641666	3624.99	117.87	-95.26	182.390	22.61	23
	646333	3694.98	117.88	-95.26	182.810	22.62	23
16QAM	637000	3555	117.08	-95.26	152.055	21.82	23
	641666	3624.99	116.93	-95.26	146.893	21.67	23
	646333	3694.98	116.95	-95.26	147.571	21.69	23
64QAM	637000	3555	116.06	-95.26	120.226	20.80	23
	641666	3624.99	115.95	-95.26	117.220	20.69	23
	646333	3694.98	115.97	-95.26	117.761	20.71	23
256QAM	637000	3555	113.49	-95.26	66.527	18.23	23
	641666	3624.99	113.41	-95.26	65.313	18.15	23
	646333	3694.98	113.40	-95.26	65.163	18.14	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

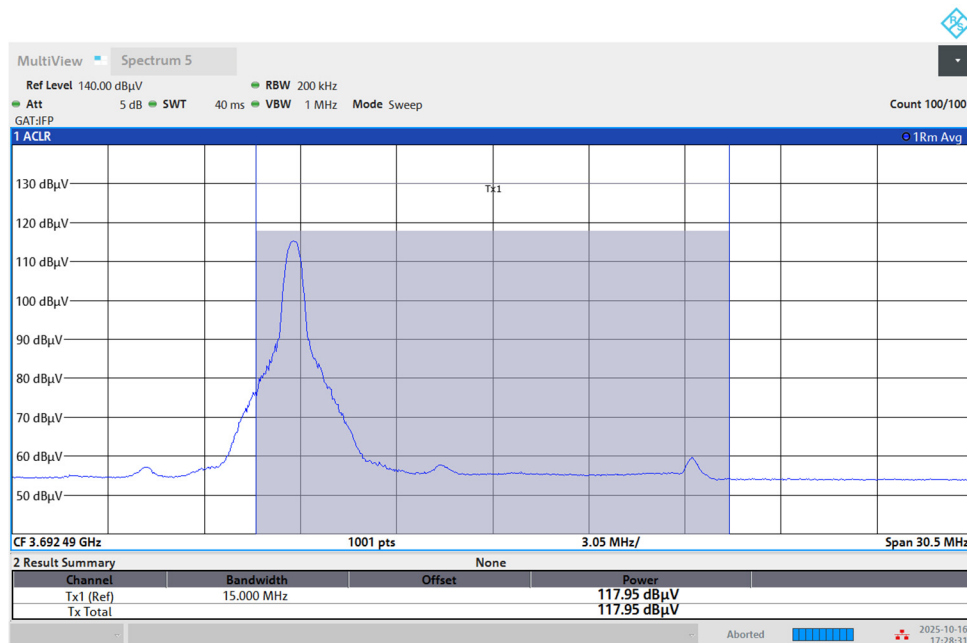


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 15 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637168	3557.52	117.75	-95.26	177.419	22.49	23
	641666	3624.99	117.68	-95.26	174.582	22.42	23
	646166	3692.49	117.86	-95.26	181.970	22.60	23
QPSK	637168	3557.52	117.83	-95.26	180.717	22.57	23
	641666	3624.99	117.80	-95.26	179.473	22.54	23
	646166	3692.49	117.95	-95.26	185.780	22.69	23
16QAM	637168	3557.52	116.87	-95.26	144.877	21.61	23
	641666	3624.99	116.87	-95.26	144.877	21.61	23
	646166	3692.49	116.98	-95.26	148.594	21.72	23
64QAM	637168	3557.52	115.85	-95.26	114.551	20.59	23
	641666	3624.99	115.88	-95.26	115.345	20.62	23
	646166	3692.49	115.98	-95.26	118.032	20.72	23
256QAM	637168	3557.52	113.30	-95.26	63.680	18.04	23
	641666	3624.99	113.35	-95.26	64.417	18.09	23
	646166	3692.49	113.43	-95.26	65.615	18.17	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

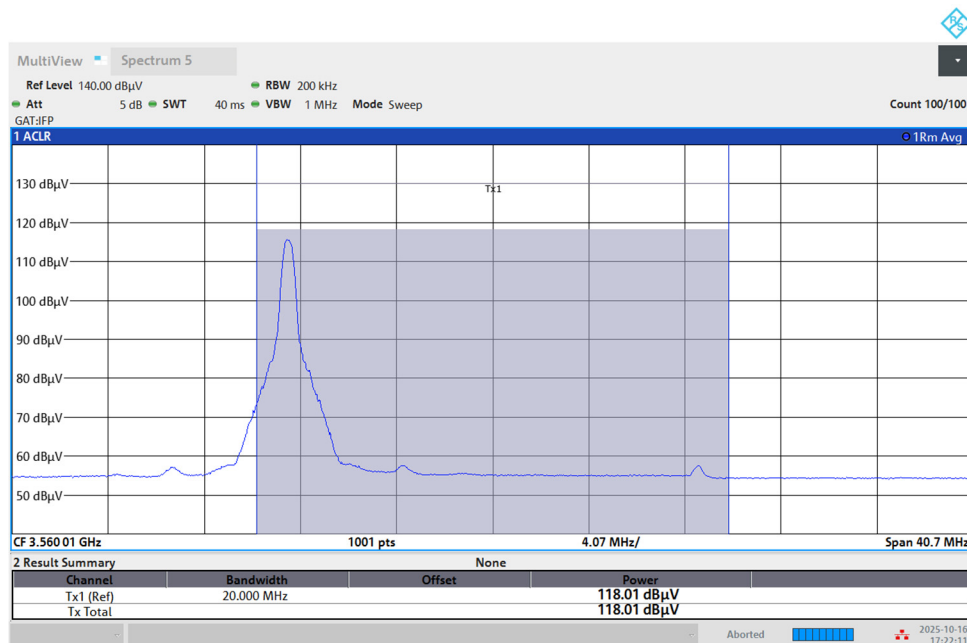


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 20 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637334	3560.01	117.90	-95.26	183.654	22.64	23
	641666	3624.99	117.71	-95.26	175.792	22.45	23
	646000	3690	117.68	-95.26	174.582	22.42	23
QPSK	637334	3560.01	118.01	-95.26	188.365	22.75	23
	641666	3624.99	117.79	-95.26	179.061	22.53	23
	646000	3690	117.78	-95.26	178.649	22.52	23
16QAM	637334	3560.01	117.04	-95.26	150.661	21.78	23
	641666	3624.99	116.86	-95.26	144.544	21.60	23
	646000	3690	116.84	-95.26	143.880	21.58	23
64QAM	637334	3560.01	116.03	-95.26	119.399	20.77	23
	641666	3624.99	115.85	-95.26	114.551	20.59	23
	646000	3690	115.85	-95.26	114.551	20.59	23
256QAM	637334	3560.01	113.50	-95.26	66.681	18.24	23
	641666	3624.99	113.29	-95.26	63.533	18.03	23
	646000	3690	113.30	-95.26	63.680	18.04	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

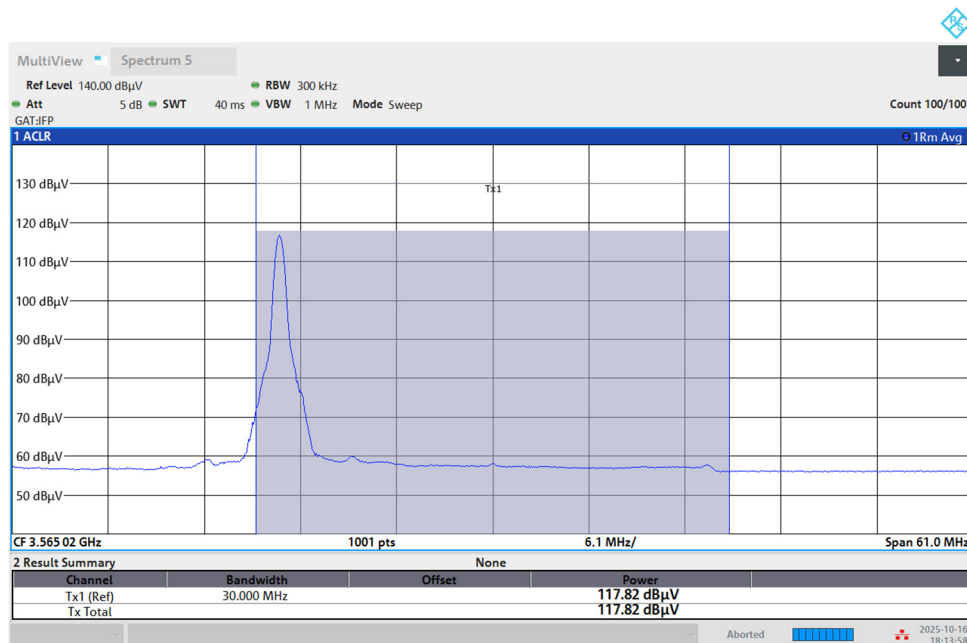


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 30 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637668	3565.02	117.73	-95.26	176.604	22.47	23
	641666	3624.99	117.72	-95.26	176.198	22.46	23
	645666	3684.99	117.64	-95.26	172.982	22.38	23
QPSK	637668	3565.02	117.82	-95.26	180.302	22.56	23
	641666	3624.99	117.81	-95.26	179.887	22.55	23
	645666	3684.99	117.73	-95.26	176.604	22.47	23
16QAM	637668	3565.02	116.85	-95.26	144.212	21.59	23
	641666	3624.99	116.87	-95.26	144.877	21.61	23
	645666	3684.99	116.80	-95.26	142.561	21.54	23
64QAM	637668	3565.02	115.83	-95.26	114.025	20.57	23
	641666	3624.99	115.87	-95.26	115.080	20.61	23
	645666	3684.99	115.79	-95.26	112.980	20.53	23
256QAM	637668	3565.02	113.30	-95.26	63.680	18.04	23
	641666	3624.99	113.33	-95.26	64.121	18.07	23
	645666	3684.99	113.25	-95.26	62.951	17.99	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

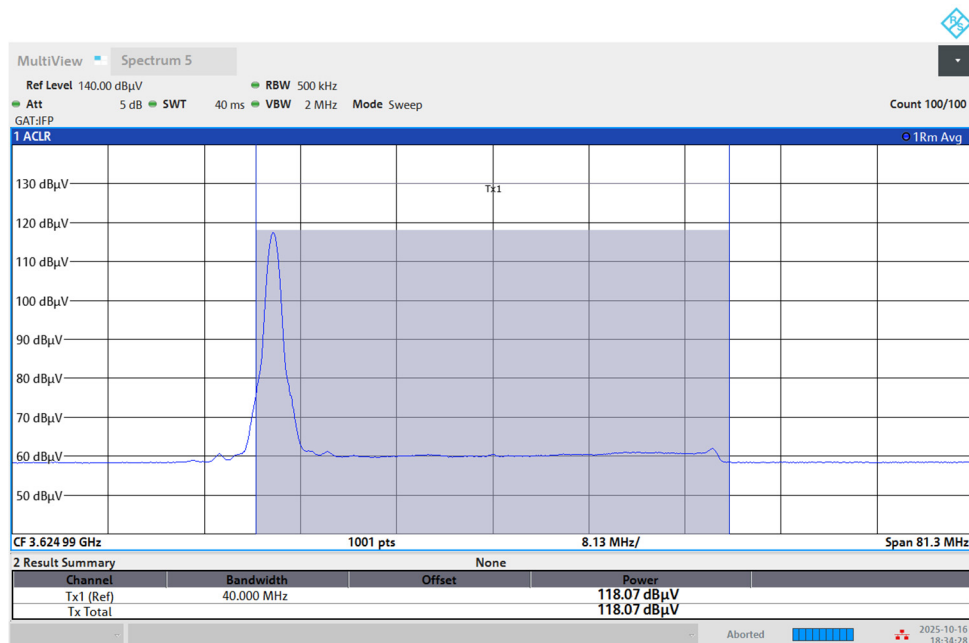


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 40 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	638000	3570	117.80	-95.26	179.473	22.54	23
	641666	3624.99	117.96	-95.26	186.209	22.70	23
	645332	3679.98	117.75	-95.26	177.419	22.49	23
QPSK	638000	3570	117.92	-95.26	184.502	22.66	23
	641666	3624.99	118.07	-95.26	190.985	22.81	23
	645332	3679.98	117.83	-95.26	180.717	22.57	23
16QAM	638000	3570	116.95	-95.26	147.571	21.69	23
	641666	3624.99	117.11	-95.26	153.109	21.85	23
	645332	3679.98	116.86	-95.26	144.544	21.60	23
64QAM	638000	3570	115.97	-95.26	117.761	20.71	23
	641666	3624.99	116.11	-95.26	121.619	20.85	23
	645332	3679.98	115.84	-95.26	114.288	20.58	23
256QAM	638000	3570	113.41	-95.26	65.313	18.15	23
	641666	3624.99	113.57	-95.26	67.764	18.31	23
	645332	3679.98	113.27	-95.26	63.241	18.01	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

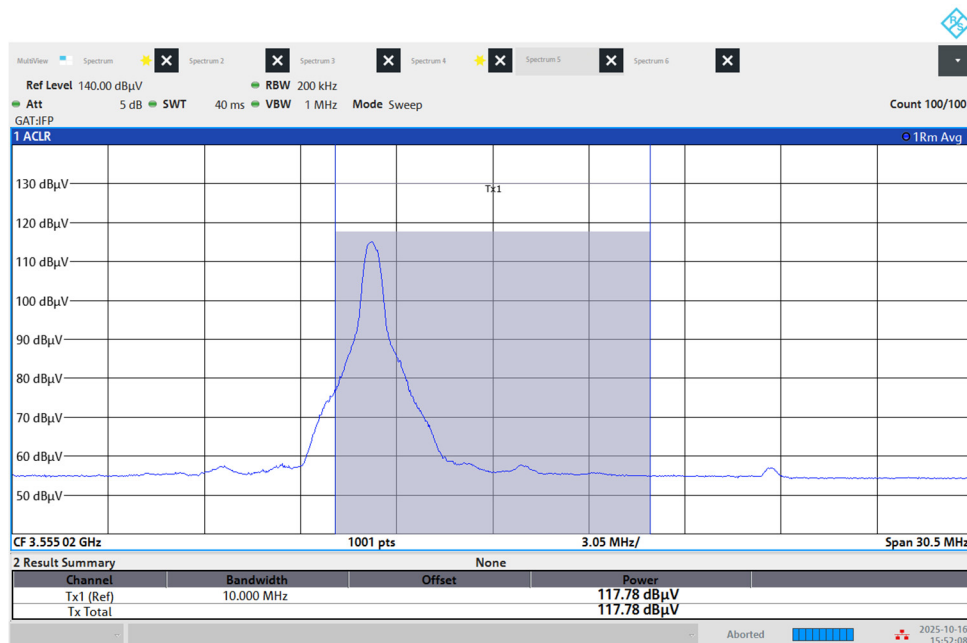


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO, Channel Bandwidth: 15 MHz, Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637168	3557.52	117.67	-95.26	174.181	22.41	23
	641666	3624.99	117.43	-95.26	164.816	22.17	23
	646166	3692.49	117.43	-95.26	164.816	22.17	23
QPSK	637168	3557.52	117.78	-95.26	178.649	22.52	23
	641666	3624.99	117.53	-95.26	168.655	22.27	23
	646166	3692.49	117.51	-95.26	167.880	22.25	23
16QAM	637168	3557.52	116.82	-95.26	143.219	21.56	23
	641666	3624.99	116.56	-95.26	134.896	21.30	23
	646166	3692.49	116.56	-95.26	134.896	21.30	23
64QAM	637168	3557.52	115.82	-95.26	113.763	20.56	23
	641666	3624.99	115.56	-95.26	107.152	20.30	23
	646166	3692.49	115.56	-95.26	107.152	20.30	23
256QAM	637168	3557.52	113.27	-95.26	63.241	18.01	23
	641666	3624.99	113.00	-95.26	59.429	17.74	23
	646166	3692.49	112.99	-95.26	59.293	17.73	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



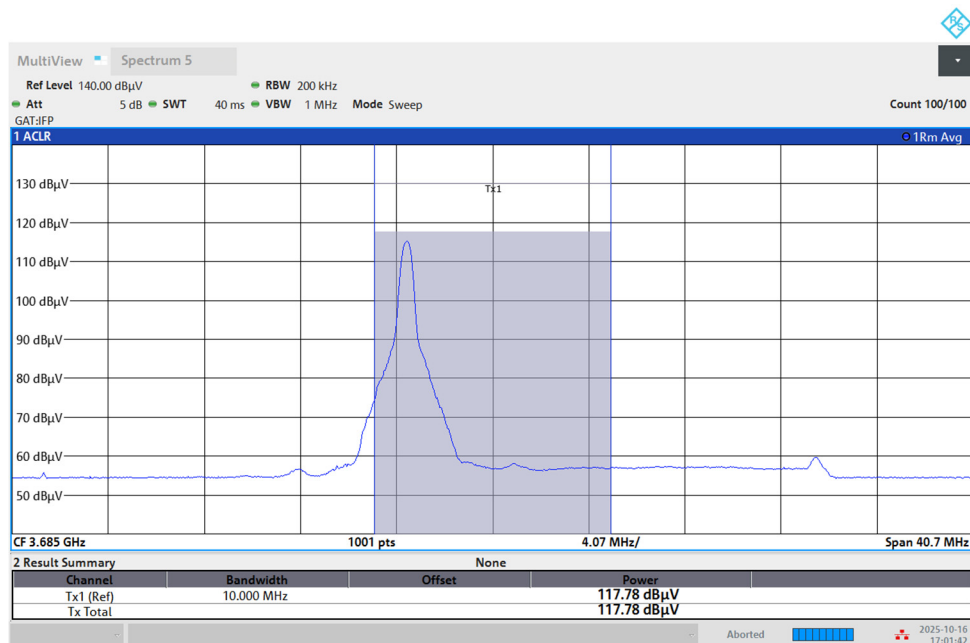
Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637334	3560.01	117.48	-95.26	166.725	22.22	23
	641666	3624.99	117.51	-95.26	167.880	22.25	23
	646000	3690	117.68	-95.26	174.582	22.42	23
QPSK	637334	3560.01	117.57	-95.26	170.216	22.31	23
	641666	3624.99	117.60	-95.26	171.396	22.34	23
	646000	3690	117.78	-95.26	178.649	22.52	23
16QAM	637334	3560.01	116.60	-95.26	136.144	21.34	23
	641666	3624.99	116.63	-95.26	137.088	21.37	23
	646000	3690	116.82	-95.26	143.219	21.56	23
64QAM	637334	3560.01	115.61	-95.26	108.393	20.35	23
	641666	3624.99	115.61	-95.26	108.393	20.35	23
	646000	3690	115.82	-95.26	113.763	20.56	23
256QAM	637334	3560.01	113.07	-95.26	60.395	17.81	23
	641666	3624.99	113.05	-95.26	60.117	17.79	23
	646000	3690	113.27	-95.26	63.241	18.01	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.



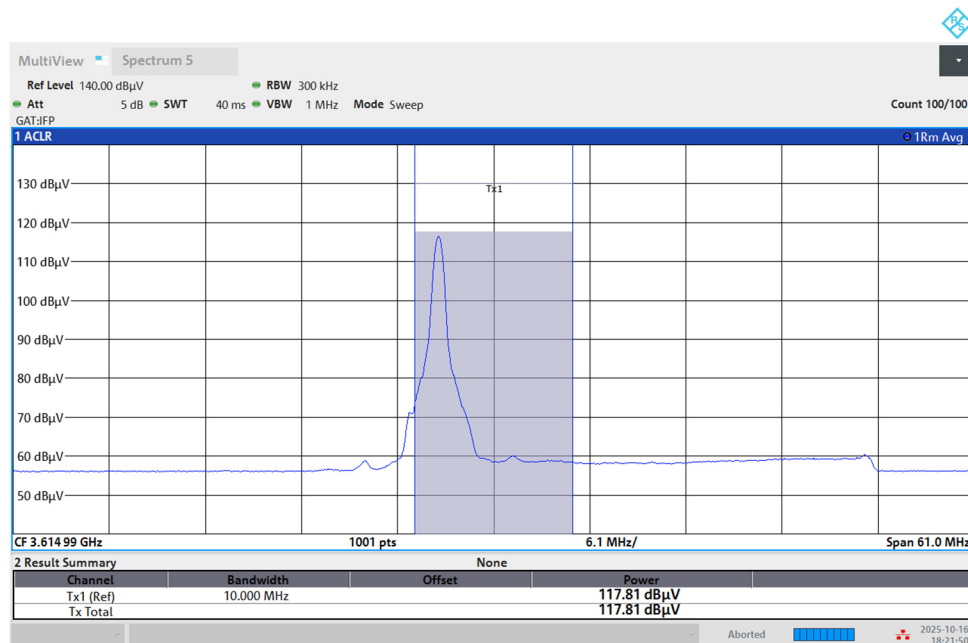
Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637668	3565.02	117.69	-95.26	174.985	22.43	23
	641666	3624.99	117.72	-95.26	176.198	22.46	23
	645666	3684.99	117.53	-95.26	168.655	22.27	23
QPSK	637668	3565.02	117.80	-95.26	179.473	22.54	23
	641666	3624.99	117.81	-95.26	179.887	22.55	23
	645666	3684.99	117.63	-95.26	172.584	22.37	23
16QAM	637668	3565.02	116.87	-95.26	144.877	21.61	23
	641666	3624.99	116.86	-95.26	144.544	21.60	23
	645666	3684.99	116.69	-95.26	138.995	21.43	23
64QAM	637668	3565.02	115.88	-95.26	115.345	20.62	23
	641666	3624.99	115.85	-95.26	114.551	20.59	23
	645666	3684.99	115.67	-95.26	109.901	20.41	23
256QAM	637668	3565.02	113.33	-95.26	64.121	18.07	23
	641666	3624.99	113.32	-95.26	63.973	18.06	23
	645666	3684.99	113.12	-95.26	61.094	17.86	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.



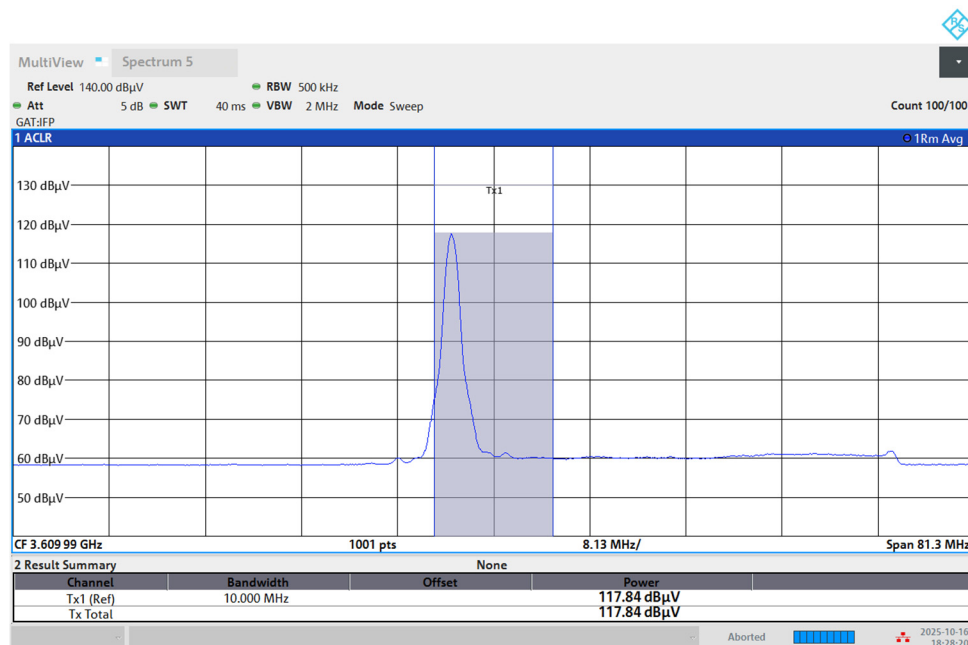
Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	638000	3570	117.44	-95.26	165.196	22.18	23
	641666	3624.99	117.71	-95.26	175.792	22.45	23
	645332	3679.98	117.53	-95.26	168.655	22.27	23
QPSK	638000	3570	117.53	-95.26	168.655	22.27	23
	641666	3624.99	117.84	-95.26	181.134	22.58	23
	645332	3679.98	117.65	-95.26	173.380	22.39	23
16QAM	638000	3570	116.57	-95.26	135.207	21.31	23
	641666	3624.99	116.88	-95.26	145.211	21.62	23
	645332	3679.98	116.69	-95.26	138.995	21.43	23
64QAM	638000	3570	115.56	-95.26	107.152	20.30	23
	641666	3624.99	115.88	-95.26	115.345	20.62	23
	645332	3679.98	115.69	-95.26	110.408	20.43	23
256QAM	638000	3570	113.00	-95.26	59.429	17.74	23
	641666	3624.99	113.32	-95.26	63.973	18.06	23
	645332	3679.98	113.16	-95.26	61.660	17.90	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.



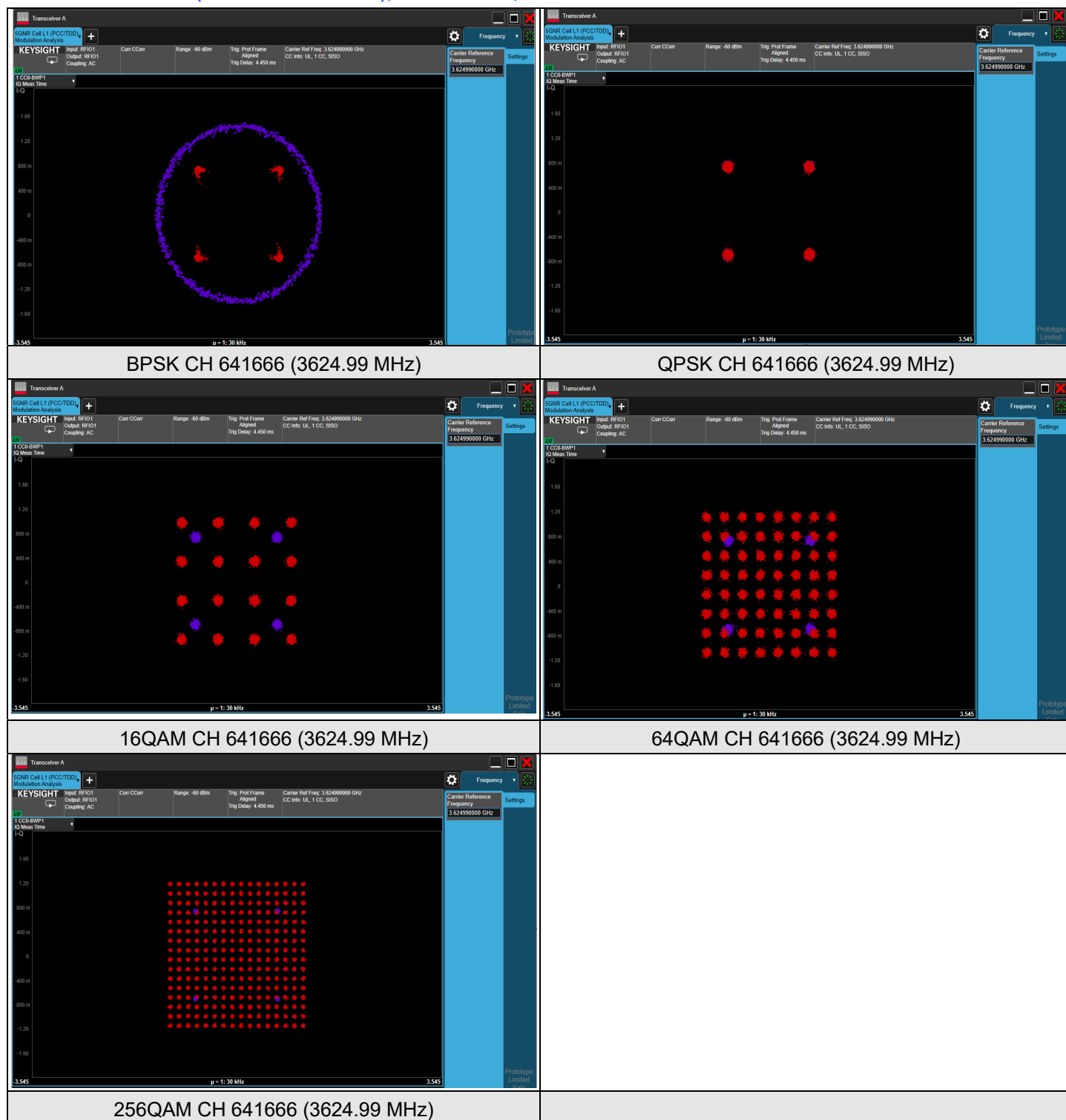
Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

7.2 Modulation Characteristics

Input Power:	3.85 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	Willy Cheng
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7.2.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO

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



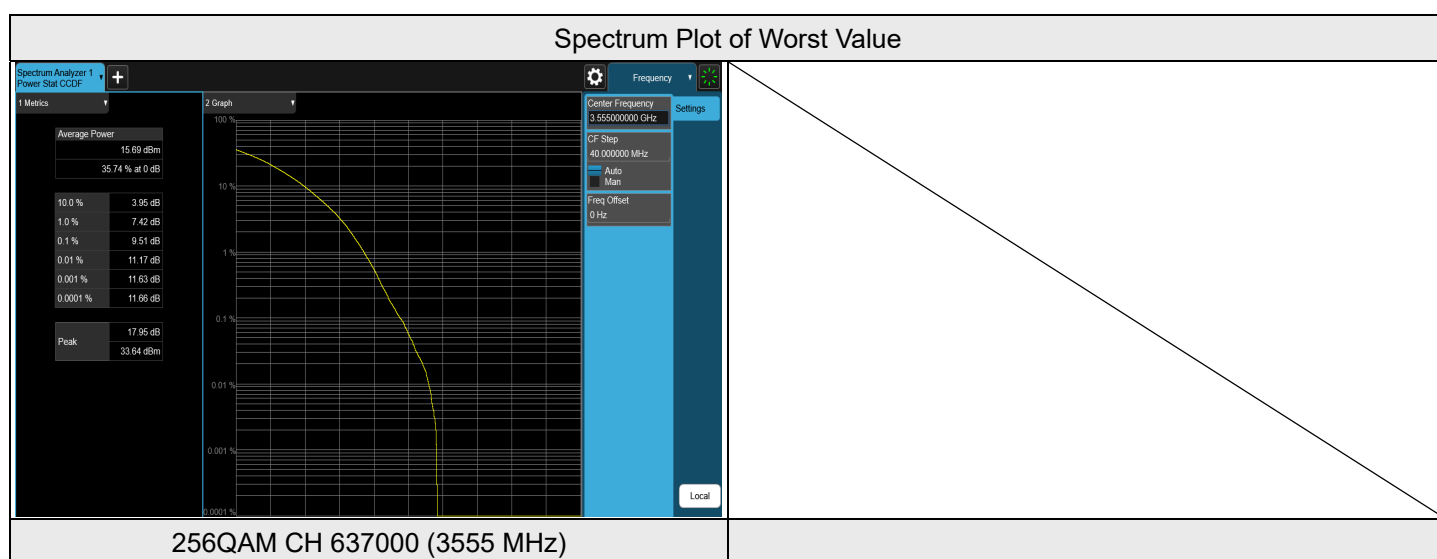
7.3 Peak to Average Ratio

Input Power:	3.85 Vdc	Environmental Conditions:	23°C, 66% RH	Tested By:	James Yang
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7.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO

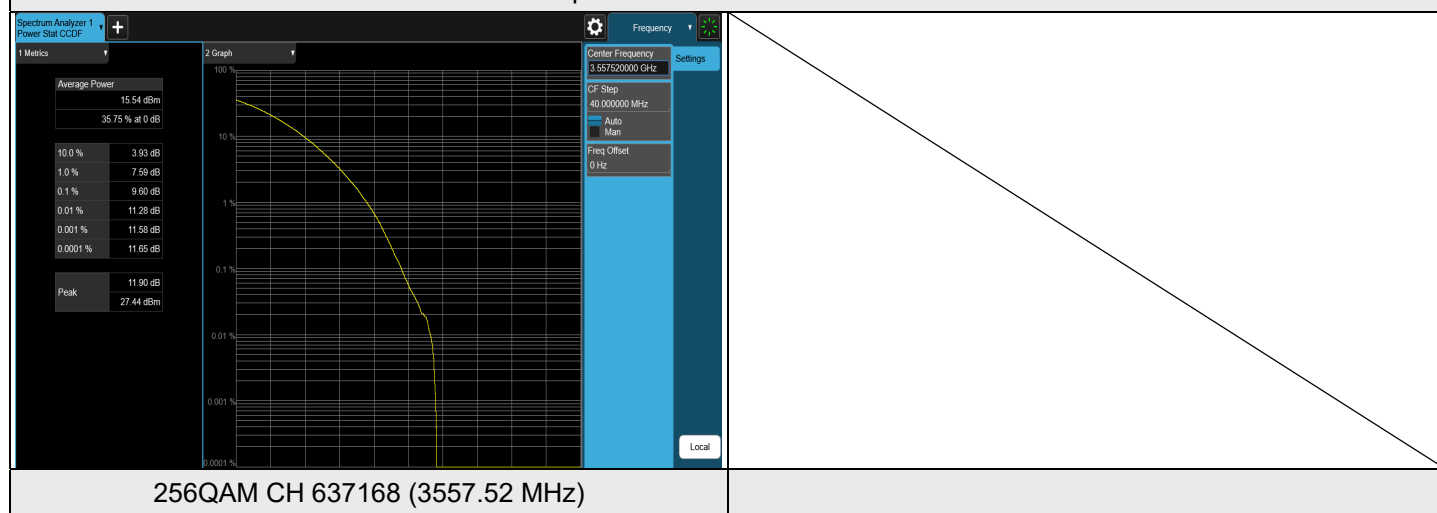
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant. 0, Channel Bandwidth: 10 MHz

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	4.99	5.73	5.68
	1	0	5.04	5.76	5.71
	24	0	5.01	5.71	5.68
QPSK	1	23	7.00	7.83	7.74
	1	0	7.05	7.87	7.80
	24	0	6.97	7.82	7.75
16QAM	1	23	7.65	7.37	7.74
	1	0	7.72	7.45	7.77
	24	0	7.69	7.40	7.69
64QAM	1	23	8.45	8.19	8.22
	1	0	8.49	8.24	8.27
	24	0	8.40	8.18	8.20
256QAM	1	23	9.42	8.95	8.53
	1	0	9.51	9.04	8.59
	24	0	9.48	8.97	8.56



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

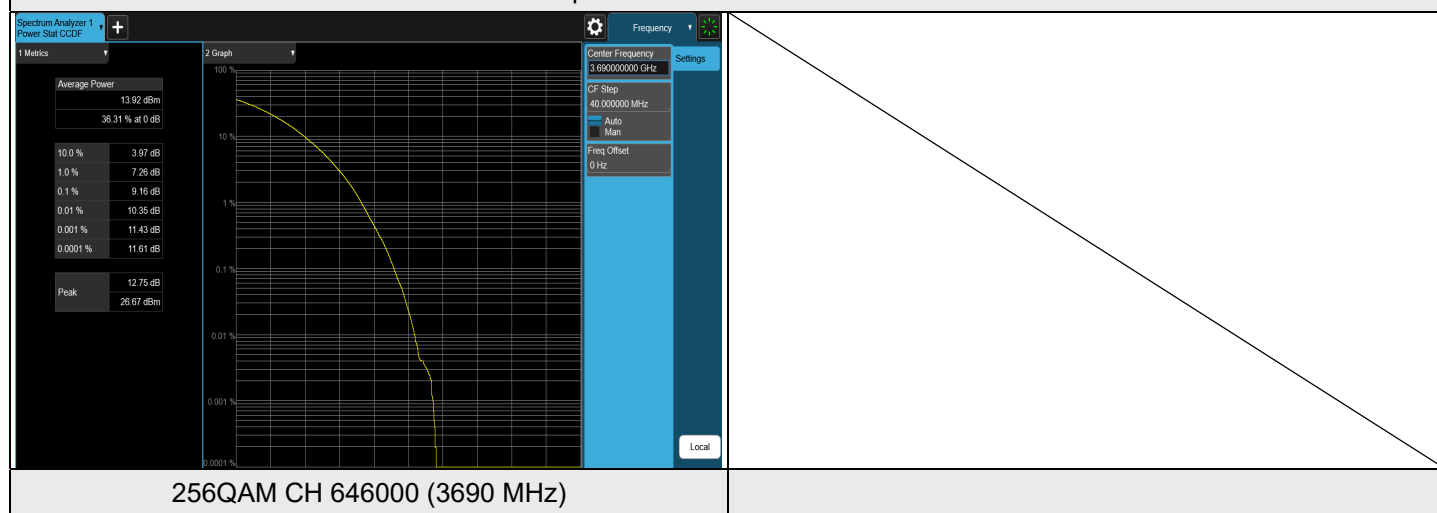
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	37	5.46	6.14	5.59
	1	0	5.51	6.23	5.62
	36	0	5.48	6.17	5.54
QPSK	1	37	7.62	7.65	7.91
	1	0	7.65	7.73	7.94
	38	0	7.58	7.70	7.88
16QAM	1	37	7.72	7.77	7.57
	1	0	7.76	7.82	7.64
	38	0	7.72	7.79	7.55
64QAM	1	37	8.16	8.47	8.15
	1	0	8.24	8.52	8.21
	38	0	8.21	8.48	8.15
256QAM	1	37	9.53	8.90	8.98
	1	0	9.60	8.93	9.05
	38	0	9.52	8.87	8.98

Spectrum Plot of Worst Value

256QAM CH 637168 (3557.52 MHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant. 0, 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	5.29	5.32	5.41
	1	0	5.35	5.37	5.47
	50	0	5.27	5.28	5.39
QPSK	1	50	7.12	7.70	7.43
	1	0	7.16	7.76	7.48
	51	0	7.12	7.67	7.40
16QAM	1	50	7.36	7.90	7.18
	1	0	7.43	7.98	7.26
	51	0	7.39	7.91	7.18
64QAM	1	50	8.34	8.42	7.92
	1	0	8.38	8.47	7.96
	51	0	8.30	8.43	7.92
256QAM	1	50	8.97	8.83	9.10
	1	0	9.01	8.92	9.16
	51	0	8.93	8.83	9.07

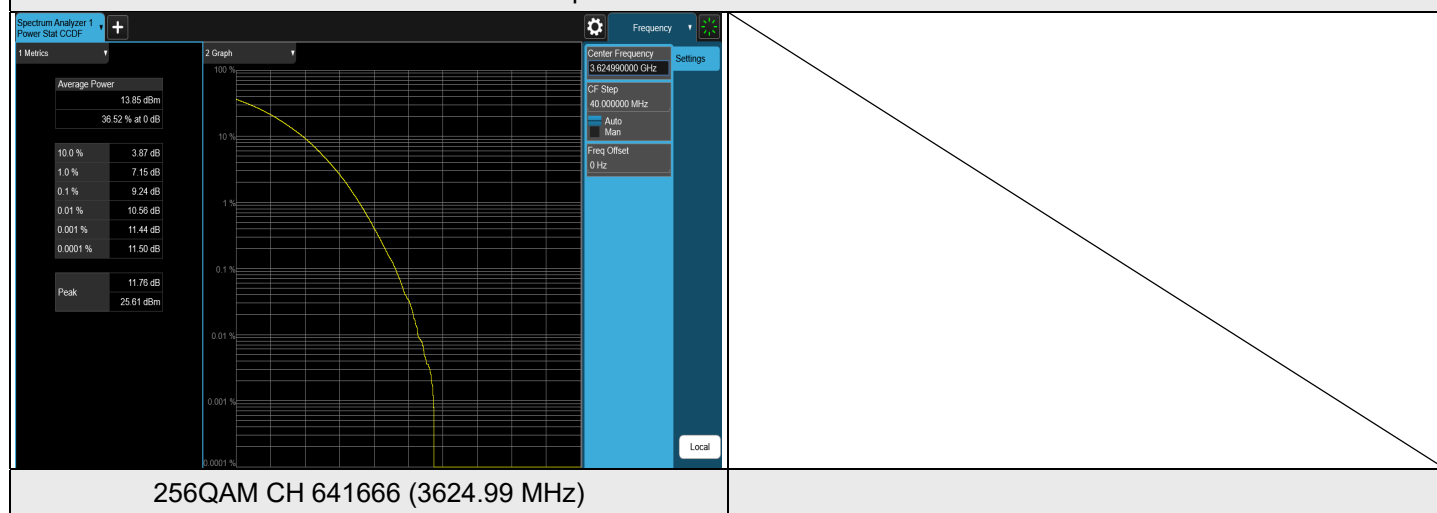
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant. 0, 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	5.32	5.24	5.46
	1	0	5.41	5.28	5.51
	75	0	5.35	5.19	5.45
QPSK	1	77	7.27	7.95	7.72
	1	0	7.33	8.00	7.81
	78	0	7.26	7.91	7.76
16QAM	1	77	7.36	8.51	7.80
	1	0	7.43	8.55	7.86
	78	0	7.37	8.51	7.78
64QAM	1	77	8.08	8.48	8.08
	1	0	8.12	8.55	8.15
	78	0	8.03	8.50	8.08
256QAM	1	77	9.16	9.21	9.10
	1	0	9.20	9.24	9.14
	78	0	9.15	9.17	9.11

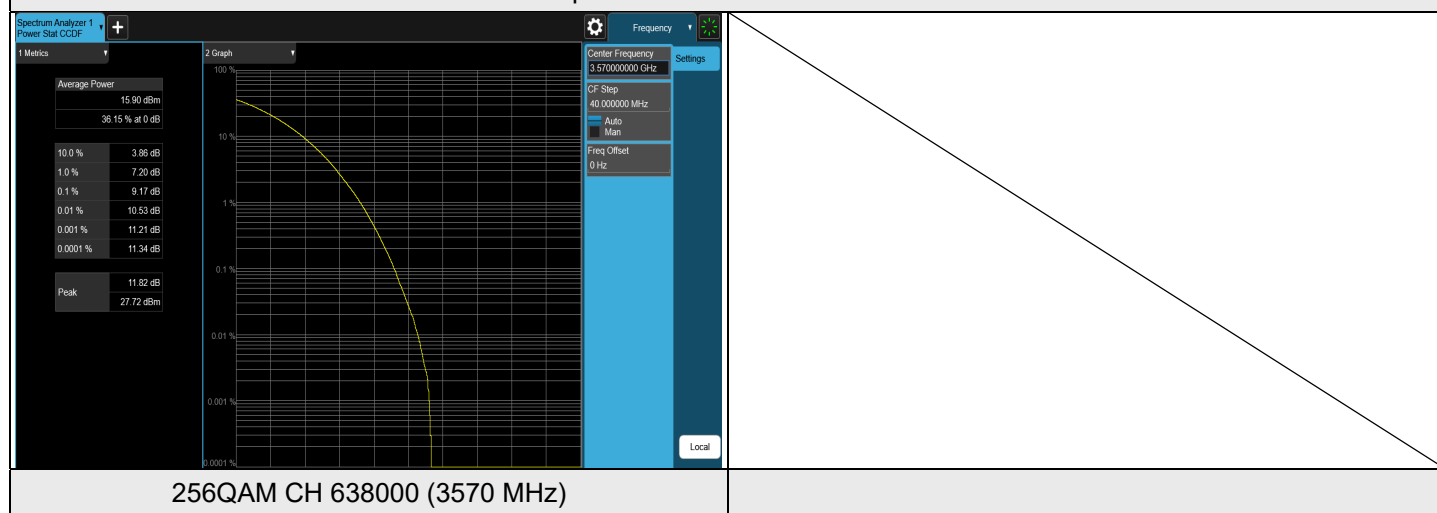
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant. 0, 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	5.61	5.26	5.55
	1	0	5.64	5.35	5.59
	100	0	5.57	5.32	5.55
QPSK	1	105	7.05	7.90	7.56
	1	0	7.08	7.93	7.65
	106	0	7.03	7.84	7.61
16QAM	1	105	7.59	7.83	8.30
	1	0	7.68	7.92	8.34
	106	0	7.63	7.87	8.29
64QAM	1	105	8.04	8.75	8.34
	1	0	8.11	8.80	8.40
	106	0	8.02	8.75	8.35
256QAM	1	105	9.13	8.92	8.59
	1	0	9.17	9.00	8.66
	106	0	9.09	8.97	8.61

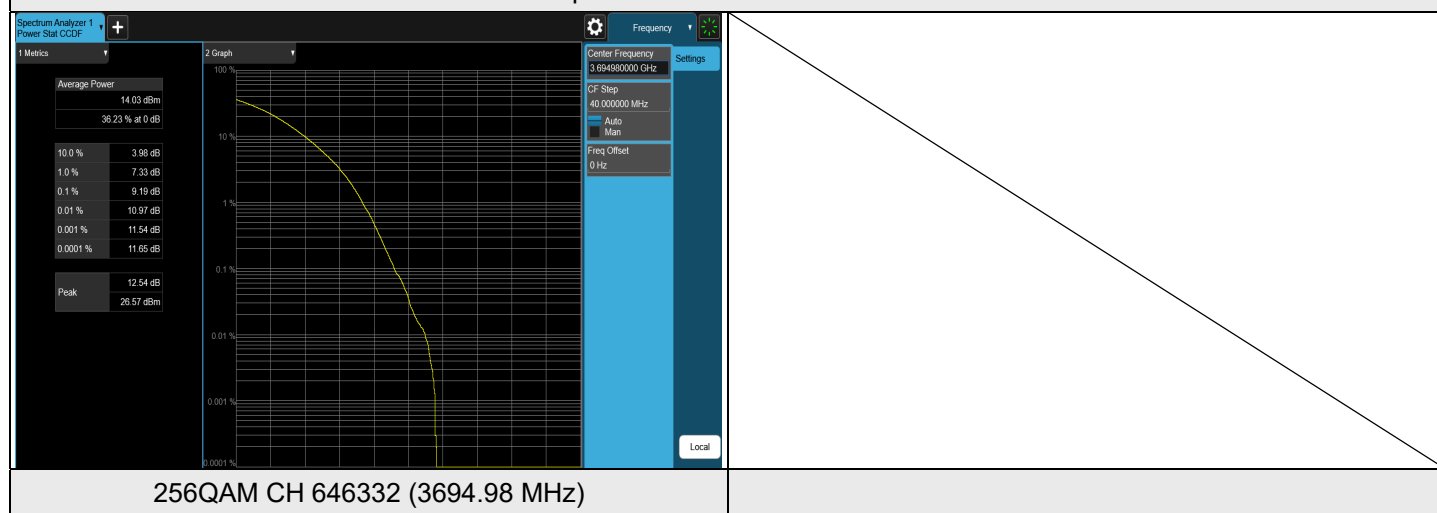
Spectrum Plot of Worst Value



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
BPSK	1	23	5.43	6.30	5.96
	1	0	5.47	6.34	6.05
	24	0	5.43	6.26	5.97
QPSK	1	23	7.55	7.52	7.60
	1	0	7.60	7.58	7.65
	24	0	7.57	7.51	7.61
16QAM	1	23	7.36	7.89	7.69
	1	0	7.45	7.93	7.78
	24	0	7.42	7.90	7.71
64QAM	1	23	8.09	8.42	8.21
	1	0	8.13	8.49	8.27
	24	0	8.06	8.44	8.18
256QAM	1	23	8.82	8.97	9.11
	1	0	8.91	9.06	9.19
	24	0	8.85	8.98	9.10

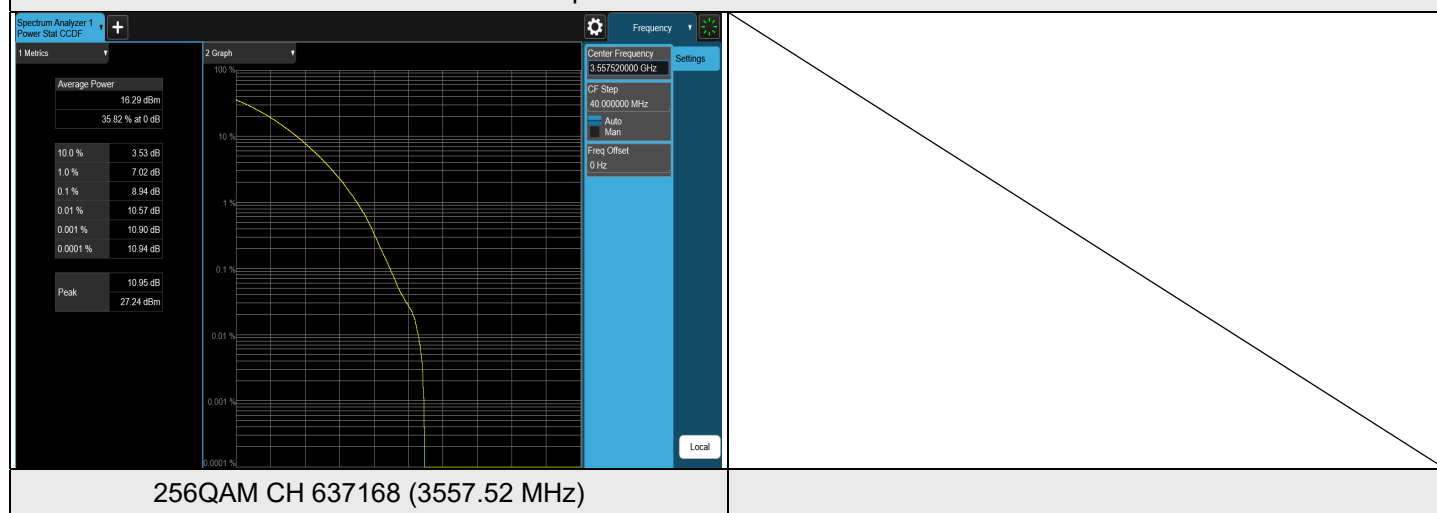
Spectrum Plot of Worst Value



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

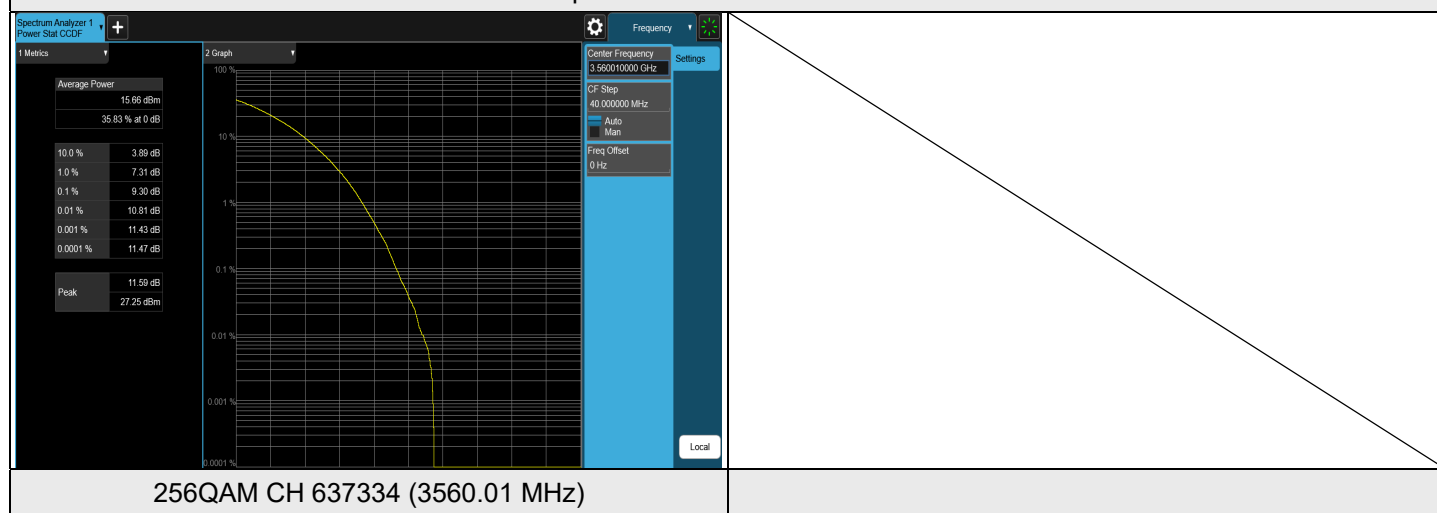
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	37	5.85	5.46	5.37
	1	0	5.94	5.51	5.46
	36	0	5.89	5.45	5.40
QPSK	1	37	7.62	7.73	7.59
	1	0	7.68	7.82	7.65
	38	0	7.59	7.75	7.58
16QAM	1	37	7.70	8.00	7.46
	1	0	7.73	8.05	7.55
	38	0	7.66	8.02	7.48
64QAM	1	37	8.23	8.30	8.20
	1	0	8.32	8.39	8.26
	38	0	8.25	8.35	8.17
256QAM	1	37	8.88	8.79	8.86
	1	0	8.94	8.82	8.92
	38	0	8.91	8.74	8.86

Spectrum Plot of Worst Value



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

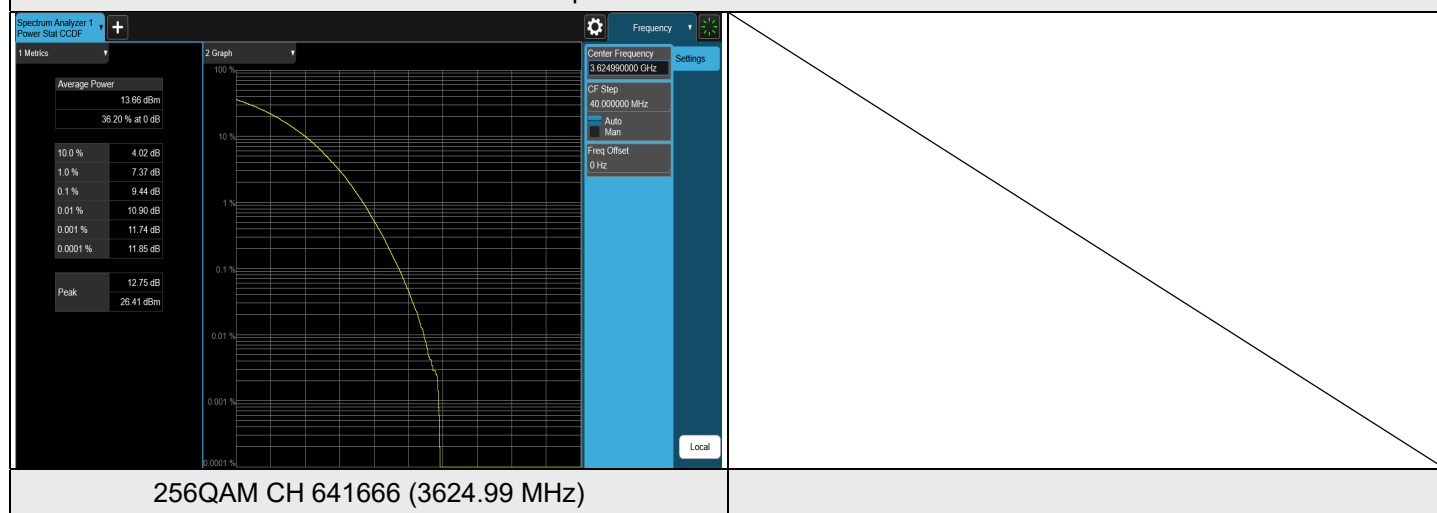
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	50	5.44	4.90	5.30
	1	0	5.50	4.95	5.38
	50	0	5.45	4.92	5.29
QPSK	1	50	7.81	7.83	7.33
	1	0	7.86	7.87	7.38
	51	0	7.80	7.82	7.32
16QAM	1	50	7.32	8.17	7.59
	1	0	7.39	8.25	7.67
	51	0	7.34	8.18	7.62
64QAM	1	50	8.33	8.69	8.33
	1	0	8.38	8.78	8.40
	51	0	8.31	8.72	8.33
256QAM	1	50	9.25	9.05	8.78
	1	0	9.30	9.10	8.85
	51	0	9.27	9.01	8.82

Spectrum Plot of Worst Value


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
BPSK	1	77	5.61	5.56	5.29
	1	0	5.65	5.61	5.34
	75	0	5.59	5.58	5.29
QPSK	1	77	7.83	8.08	8.03
	1	0	7.91	8.17	8.08
	78	0	7.87	8.08	8.01
16QAM	1	77	7.52	8.01	8.04
	1	0	7.60	8.09	8.11
	78	0	7.57	8.00	8.02
64QAM	1	77	8.54	8.33	8.24
	1	0	8.58	8.41	8.29
	78	0	8.49	8.36	8.23
256QAM	1	77	9.24	9.40	9.16
	1	0	9.28	9.44	9.23
	78	0	9.19	9.36	9.20

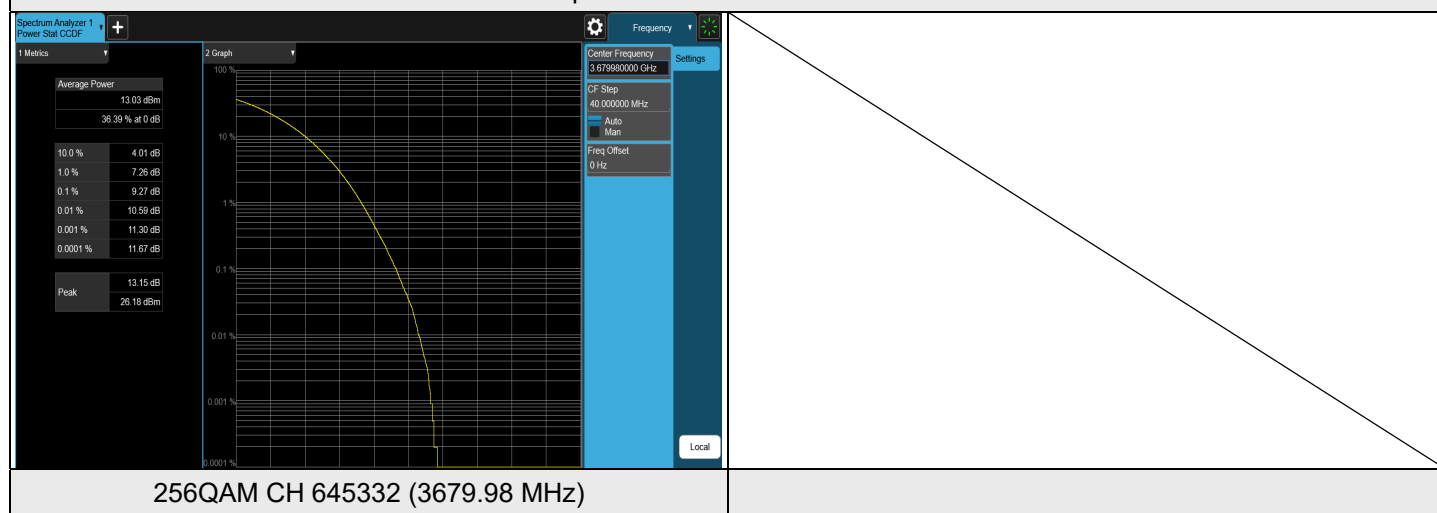
Spectrum Plot of Worst Value



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
BPSK	1	105	5.26	5.70	5.62
	1	0	5.32	5.77	5.65
	100	0	5.24	5.74	5.56
QPSK	1	105	7.35	8.25	7.57
	1	0	7.41	8.33	7.66
	106	0	7.33	8.29	7.59
16QAM	1	105	7.93	8.30	8.44
	1	0	8.02	8.36	8.48
	106	0	7.98	8.32	8.44
64QAM	1	105	8.37	8.37	8.36
	1	0	8.46	8.41	8.40
	106	0	8.39	8.37	8.31
256QAM	1	105	9.11	9.06	9.21
	1	0	9.19	9.12	9.27
	106	0	9.16	9.08	9.23

Spectrum Plot of Worst Value



7.4 Bandwidth

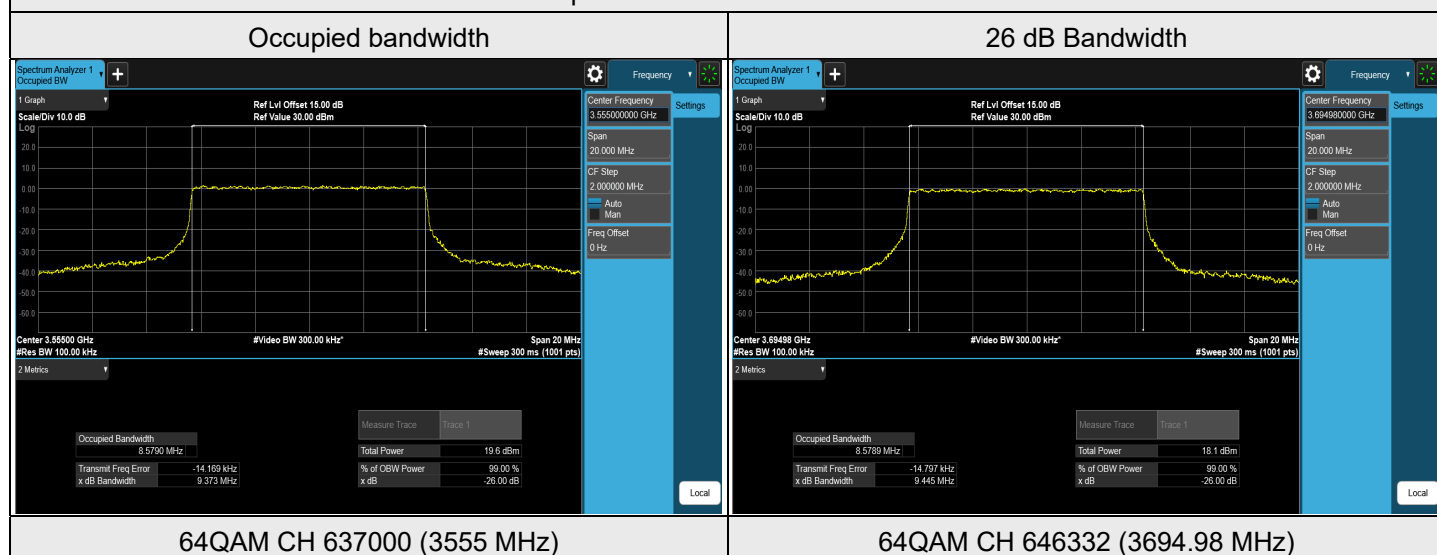
Input Power:	3.85 Vdc	Environmental Conditions:	23°C, 66% RH	Tested By:	James Yang
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7.4.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO

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)
BPSK	637000	3555	8.5704	9.276
BPSK	641666	3624.99	8.5785	9.304
BPSK	646332	3694.98	8.5750	9.228
QPSK	637000	3555	8.5694	9.300
QPSK	641666	3624.99	8.5712	9.429
QPSK	646332	3694.98	8.5686	9.302
16QAM	637000	3555	8.5761	9.394
16QAM	641666	3624.99	8.5734	9.362
16QAM	646332	3694.98	8.5777	9.291
64QAM	637000	3555	8.5790	9.373
64QAM	641666	3624.99	8.5780	9.386
64QAM	646332	3694.98	8.5789	9.445
256QAM	637000	3555	8.5640	9.267
256QAM	641666	3624.99	8.5685	9.221
256QAM	646332	3694.98	8.5563	9.213

Spectrum Plot of Worst Value



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)
BPSK	637168	3557.52	12.898	13.72
BPSK	641666	3624.99	12.857	13.67
BPSK	646166	3692.49	12.880	13.69
QPSK	637168	3557.52	13.574	14.61
QPSK	641666	3624.99	13.564	14.35
QPSK	646166	3692.49	13.566	14.40
16QAM	637168	3557.52	13.573	14.50
16QAM	641666	3624.99	13.565	14.47
16QAM	646166	3692.49	13.569	14.51
64QAM	637168	3557.52	13.591	14.59
64QAM	641666	3624.99	13.580	14.50
64QAM	646166	3692.49	13.598	14.60
256QAM	637168	3557.52	13.578	14.59
256QAM	641666	3624.99	13.564	14.53
256QAM	646166	3692.49	13.562	14.47

