

Test report

REP111155-1R2TRFWL

Date of issue: December 10, 2025

Applicant:

Fujitsu Network Communications, Inc.

Product:

Dual Band Radio Unit

Model:

44R26-N25N66-AC

Model variant:

44R26-N25N66-DC

FCC ID:

CFDLN01FRUDB

Specifications:

◆ **FCC 47 CFR Part 27**

Miscellaneous Wireless Communications Services

Lab and test locations

Company name	Nemko USA Inc.
Address	2210 Faraday Ave, Suite 150
City	Carlsbad
Province	California
Postal code	92008
Country	USA
Telephone	+1 760 444 3500
Website	www.nemko.com

Tested by	Lan Sayasane, Sr. EMC Test Engineer
Reviewed by	James Cunningham, EMC/MIL/WL Supervisor
Review date	December 10, 2025
Reviewer signature	

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko USA's ISO/IEC 17025 accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by ANAB, NIST, or any agency of the U.S. Government.

Copyright notification

Nemko USA Inc. authorizes the applicant to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties.

Nemko USA Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

© Nemko USA Inc.

Table of contents

Table of contents	3
Section 1. Report summary	4
1.1 Test specifications	4
1.2 Exclusions	4
1.3 Statement of compliance	4
1.4 Test report revision history	4
Section 2. Summary of test results	5
2.1 Sample information	5
2.2 Testing period	5
2.3 FCC Part 27 test results	5
Section 3. Equipment under test (EUT) details	6
3.1 Sample information	6
3.2 Applicant and manufacturer	6
3.3 EUT information	6
3.4 EUT exercise details	6
3.5 EUT setup details	7
Section 4. Engineering considerations	8
4.1 Modifications incorporated in the EUT	8
4.2 Technical judgment	8
4.3 Deviations from laboratory tests procedures	8
Section 5. Test conditions	9
5.1 Atmospheric conditions	9
5.2 Power supply range	9
Section 6. Measurement uncertainty	10
6.1 Uncertainty of measurement	10
Section 7. Test equipment	11
7.1 Test equipment list	11
Section 8. Testing data	12
8.1 FCC §2.1033(c)(4) Modulation type	12
8.2 FCC §2.1049(h) 99% Occupied Bandwidth and frequency ranges	13
8.3 FCC §27.53 (h)(3) 26 dB Occupied Bandwidth	22
8.4 FCC 27.50(j)(2) Output power	31
8.5 FCC 27.50(B) Peak to Average Power Ratio	53
8.6 FCC 27.53(l)(1) Emission Limits	65
8.7 FCC 27.54 Frequency stability	197

Section 1. Report summary

1.1 Test specifications

FCC 47 CFR Part 27
ANSI C63.26: 2015

Miscellaneous Wireless Communications Services
American National Standard of Procedures for Compliance Testing of Licensed Wireless Devices

1.2 Exclusions

None.

1.3 Statement of compliance

Testing was performed against all relevant requirements of the test standard(s).

Results obtained indicate that the product under test complies in full with the tested requirements.

The test results relate only to the item(s) tested.

See "Section 2 Summary of test results" for full details.

1.4 Test report revision history

Revision #		Details of changes made to test report
REP111155-1TRFWL	October 7, 2025	Original report issued
REP111155-1R1TRFWL	December 5, 2025	Added LTE, multi-carrier and multi-RAT test data. Minor additional edits
REP111155-1R2TRFWL	December 10, 2025	Minor additional edit

Section 2. Summary of test results

2.1 Sample information

Receipt date	August 25, 2025
Nemko sample ID number	PRJ0083647

2.2 Testing period

Test start date	August 25, 2025
Test end date	December 5, 2025

2.3 FCC Part 27 test results

Part	Test description	Verdict
§2.1033(c)(4)	Modulation type	Pass
§2.1049(h)	99% Occupied bandwidth	Pass
§27.50(h)(j)	Frequency ranges	Pass
§27.50(d)(2)(ii)	Output power at RF antenna connector	Pass
§27.50(d)(5)	Peak to average power ratio	Pass
§27.53(h)(1)	Conducted spurious emissions	Pass
§27.53(h)(1)	Radiated spurious emissions	Pass
§27.53(h)(3)	26 dB Occupied bandwidth	Pass
§27.54	Frequency stability	Pass

Note: None

Section 3. Equipment under test (EUT) details

3.1 Sample information

This section contains information provided by the applicant and has been utilized to support the test plan. Inaccurate information provided by the applicant can affect the validity of the results within this test report. Nemko accepts no responsibility for the information contained within this section and the impact it may have on the test plan and resulting measurements.

3.2 Applicant and manufacturer

Company name	Fujitsu Networks Communications, Inc.
Address	2801 Telecom Parkway
City	Richardson
Province/State	TX
Postal/Zip code	75082
Country	United States of America

3.3 EUT information

Product name	Dual Band Radio unit
Model	44R26-N25N66-AC
Variant(s)	44R26-N25N66-DC
Serial number	A2256600352
Part number	TA08029-B586R
Power requirements	90-240 Vac, 60 Hz/6.4 Amps (44R26-N25N66-AC) 36-60 Vdc (44R26-N25N66-DC)
Description/theory of operation	5G/LTE ORAN dual band Radio Unit (RU) with 4T4R configuration.
Operational frequencies	Band 66: 2110-2200 MHz
Software details	Software Version: FJ-44R26-N25N66 1.2.14 Firmware Version: FJ-44R26-N25N66 0.1.4
Modulation	QPSK, 16QAM, 64QAM, 256QAM and 1024QAM
Operational bandwidth(s)	LTE: 5, 10, 15, 20 MHz 5G NR: 5, 10, 15, 20, 25, 30, 35, 40, 45 MHz
Antenna gain	18 dBi
Number of transmit antenna	4

3.4 EUT exercise details

EUT description of the methods used to exercise the EUT and all relevant ports:

- The Dual Band Radio Unit frequency, modulation and bandwidth was set before turning on RF signal.

EUT setup/configuration rationale:

- The EUT setup in a configuration that was expected to produce the highest amplitude emissions relative to the limit and that satisfy normal operation/installation practice by the end user.
- The type and construction of cables used in the measurement set-up were consistent with normal or typical use. Cables with mitigation features (for example, screening, tighter/more twists per length, ferrite beads) have been noted below:
 - None
- The EUT was setup in a manner that was consistent with its typical arrangement and use. The measurement arrangement of the EUT, local ancillary equipment and associated cabling was representative of normal practice. Any deviations from typical arrangements have been noted below:
 - None

3.5 EUT setup details

Table 3.5-1: EUT sub assemblies

Description	Brand name	Model/Part number	Serial number	Rev.
None	N/A	N/A	N/A	N/A

Table 3.5-2: EUT interface ports

Description	Qty.
Power (DC or AC connector)	1
Alarm (Not used)	1
Ethernet ports	2
Fiber (FH-IF) ports	2
RF connectors (Port A-D)	4

Table 3.5-3: Support equipment

Description	Brand name	Model/Part number	Serial number	Rev.
Laptop	Fujitsu	LIFEBook E-Series	N/A	--
DU Emulator	Fujitsu	THS 116 0001	TM1160001243900015	R1A

Table 3.5-4: Inter-connection cables

Cable description	From	To	Length (m)
Ethernet	Laptop	DU Emulator	2
Ethernet	Dual Band Radio Unit (EUT)	Laptop	3
Fiber	Dual Band Radio Unit (EUT)	DU Emulator	3

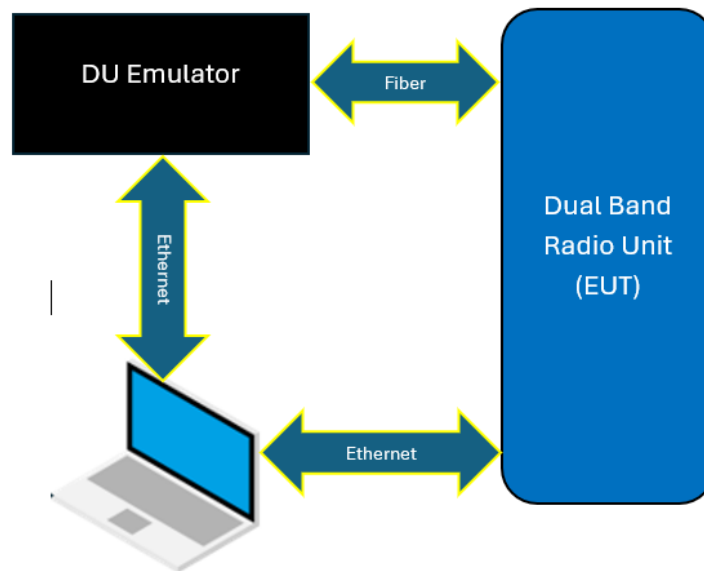


Figure 3.5-1: Test setup diagram

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

The equipment under test has 2 variants: the 44R26-N25N66-DC and the 44R26-N25N66-AC.

Both models are electrically and mechanically identical, and share the same antenna type and gain, with variations limited to main power sources either AC power 90 to 240VAC or DC power -36 to -60VDC.

Testing was performed on the AC powered variant. The test results are representative for the DC powered variant.

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

Temperature	15–30 °C
Relative humidity	20–75 %
Air pressure	860–1060 mbar

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages ± 5 %, for which the equipment was designed.

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

Measurement uncertainty budgets for the tests are detailed below. Measurement uncertainty calculations assume a coverage factor of $K = 2$ with 95% certainty.

Table 6.1-1: *Measurement uncertainty.*

Test name	Measurement uncertainty, dB
All antenna port measurements/ including OBW	0.55
Conducted spurious emissions	1.13
Radiated spurious emissions	3.78
AC power line conducted emissions	1.38
Supply Voltages	0.05%
Time	2.09%

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: Test equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV40	E1120	2 years	14-Dec-2025
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV3030	E1321	1 year	01-Oct-2025
Signal Generator	Rohde & Schwarz	SMB100A	E1128	3 years	04-Oct-2027
Attenuator, 40dB (100W)	Centric RF	C18N100-40	N/A	VOU	VOU
Attenuator, 10dB	Pasternack	PE7016-10	N/A	VOU	VOU
Attenuator, 10dB	Narda	776B-10	N/A	VOU	VOU
EMI Test Receiver	Rohde & Schwarz	ESU40	E1121	1 year	03-Oct-2025
System Controller	Sunol Sciences	SC104V	E1191	NCR	NCR
Antenna, Bilog	Schaffner	CBL 6111D	1763	2 years	16-Jul-2026
Antenna, DRG Horn	ETS-Lindgren	3117-PA	E1160	2 years	17-May-2026
Antenna, Standard Gain Horn	Eravant	SAZ-2410-42-S1	EW107	1 year	11-Feb-2026
Low Noise Amplifier	Eravant	SBL-1834034038-KFKF	EW111	NCR	NCR
High Pass Filter, 3.5GHz	N/A	N/A	E1214	NCR	NCR

Notes: N/A – not applicable
NCR – no calibration required
VOU – verify on use

Section 8. Testing data

8.1 FCC §2.1033(c)(4) Modulation type

8.1.1 Definitions and limits

(c) Applications for equipment other than that operating under parts 15, 11 and 18 of this chapter shall be accompanied by a technical report containing the following information:

(4) Type or types of emission

8.1.2 Test summary

Verdict	Pass		
Test date	August 26, 2025	Temperature	22 °C
Test engineer	Lan Sayasane, Sr. EMC Test Engineer	Air pressure	1005.0 mbar
Test location	☐ 10m semi anechoic chamber	Relative humidity	59 %
	☐ 3m semi anechoic chamber		
	☒ Wireless bench		
	☐ Other:		

8.1.3 Observations, settings and special notes

None

8.1.4 Setup details

EUT power input during test	120Vac/60Hz
EUT setup configuration	☒ Table-top ☐ Floor standing ☐ Other:

8.1.5 Test data

Table 8.1-1: FCC §2.1033(c)(4) Modulation type – LTE operation

Band	Bandwidth (MHz)	Emission type
Band 66	5	QPSK; 16QAM; 64QAM; 256QAM
Band 66	10	QPSK; 16QAM; 64QAM; 256QAM
Band 66	15	QPSK; 16QAM; 64QAM; 256QAM
Band 66	20	QPSK; 16QAM; 64QAM; 256QAM

Table 8.1-2: FCC §2.1033(c)(4) Modulation type – 5G NR operation

Band	Bandwidth (MHz)	Emission type
N66	5	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
N66	10	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
N66	15	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
N66	20	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
N66	25	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
N66	30	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
N66	35	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
N66	40	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
N66	45	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM

8.2 FCC §2.1049(h) 99% Occupied Bandwidth and frequency ranges

8.2.1 Definitions and limits

§2.1049 (h) Transmitters employing digital modulation techniques—when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter network, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the use.

8.2.2 Test summary

Verdict	Pass		
Test date	August 26, 2025	Temperature	22 °C
Test engineer	Lan Sayasane, Sr. EMC Test Engineer	Air pressure	1005.0 mbar
Test location	☐ 10m semi anechoic chamber ☐ 3m semi anechoic chamber ☒ Wireless bench ☐ Other:	Relative humidity	59 %

8.2.3 Observations, settings and special notes

None.

8.2.4 Test data – LTE operation

Table 8.2-1: 99% Occupied bandwidth test results – LTE operation

Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	99% OBW (MHz)
2112.5	QPSK	5	4.498
2155	QPSK	5	4.492
2197.5	QPSK	5	4.500
2112.5	16QAM	5	4.482
2155	16QAM	5	4.490
2197.5	16QAM	5	4.497
2112.5	64QAM	5	4.491
2155	64QAM	5	4.499
2197.5	64QAM	5	4.512
2115	QPSK	10	9.002
2155	QPSK	10	8.971
2195	QPSK	10	8.997
2115	16QAM	10	9.003
2155	16QAM	10	8.978
2195	16QAM	10	8.972
2115	64QAM	10	8.986
2155	64QAM	10	8.997
2195	64QAM	10	8.983
2117.5	QPSK	15	13.464
2155	QPSK	15	13.436
2192.5	QPSK	15	13.422
2117.5	16QAM	15	13.380
2155	16QAM	15	13.453
2192.5	16QAM	15	13.422
2117.5	64QAM	15	13.446
2155	64QAM	15	13.439
2192.5	64QAM	15	13.460
2120	QPSK	20	17.914
2155	QPSK	20	17.913
2190	QPSK	20	17.954
2120	16QAM	20	17.958

Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	99% OBW (MHz)
2155	16QAM	20	17.953
2190	16QAM	20	17.932
2120	64QAM	20	17.892
2155	64QAM	20	17.897
2190	64QAM	20	17.898

8.2.5 Test data – 5G NR operation

Table 8.2-2: 99% Occupied bandwidth test results – 5G NR operation

Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	99% OBW (MHz)
2112.5	QPSK	5	4.486
2155	QPSK	5	4.486
2197.5	QPSK	5	4.486
2112.5	16QAM	5	4.501
2155	16QAM	5	4.515
2197.5	16QAM	5	4.501
2112.5	64QAM	5	4.501
2155	64QAM	5	4.472
2197.5	64QAM	5	4.501
2112.5	256QAM	5	4.501
2155	256QAM	5	4.501
2197.5	256QAM	5	4.486
2112.5	1024QAM	5	4.501
2155	1024QAM	5	4.486
2197.5	1024QAM	5	4.501
2115	QPSK	10	9.291
2155	QPSK	10	9.32
2195	QPSK	10	9.291
2115	16QAM	10	9.291
2155	16QAM	10	9.233
2195	16QAM	10	9.262
2115	64QAM	10	9.32
2155	64QAM	10	9.32
2195	64QAM	10	9.32
2115	256QAM	10	9.291
2155	256QAM	10	9.32
2195	256QAM	10	9.32
2115	1024QAM	10	9.291
2155	1024QAM	10	9.349
2195	1024QAM	10	9.378
2117.5	QPSK	15	14.11
2155	QPSK	15	14.067
2192.5	QPSK	15	14.11
2117.5	16QAM	15	14.11
2155	16QAM	15	14.11
2192.5	16QAM	15	14.153
2117.5	64QAM	15	14.067
2155	64QAM	15	14.067
2192.5	64QAM	15	14.11
2117.5	256QAM	15	14.11
2155	256QAM	15	14.067
2192.5	256QAM	15	14.11
2117.5	1024QAM	15	14.153
2155	1024QAM	15	14.11
2192.5	1024QAM	15	14.067
2120	QPSK	20	18.929
2155	QPSK	20	18.871
2190	QPSK	20	18.871
2120	16QAM	20	18.987
2155	16QAM	20	19.045

Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	99% OBW (MHz)
2190	16QAM	20	18.987
2120	64QAM	20	18.987
2155	64QAM	20	18.871
2190	64QAM	20	18.929
2120	256QAM	20	18.929
2155	256QAM	20	18.871
2190	256QAM	20	18.929
2120	1024QAM	20	19.045
2155	1024QAM	20	18.929
2190	1024QAM	20	18.987
2122.5	QPSK	25	23.806
2155	QPSK	25	23.661
2187.5	QPSK	25	23.806
2122.5	16QAM	25	23.806
2155	16QAM	25	23.734
2187.5	16QAM	25	23.806
2122.5	64QAM	25	23.661
2155	64QAM	25	23.734
2187.5	64QAM	25	23.734
2122.5	256QAM	25	23.734
2155	256QAM	25	23.661
2187.5	256QAM	25	23.734
2122.5	1024QAM	25	23.734
2155	1024QAM	25	23.661
2187.5	1024QAM	25	23.734
2125	QPSK	30	28.567
2155	QPSK	30	28.48
2185	QPSK	30	28.567
2125	16QAM	30	28.394
2155	16QAM	30	28.22
2185	16QAM	30	28.394
2125	64QAM	30	28.567
2155	64QAM	30	28.654
2185	64QAM	30	28.567
2125	256QAM	30	28.567
2155	256QAM	30	28.567
2185	256QAM	30	28.567
2125	1024QAM	30	28.654
2155	1024QAM	30	28.567
2185	1024QAM	30	28.654
2127.5	QPSK	35	33.632
2155	QPSK	35	33.43
2182.5	QPSK	35	33.531
2127.5	16QAM	35	33.734
2155	16QAM	35	33.734
2182.5	16QAM	35	33.734
2127.5	64QAM	35	33.734
2155	64QAM	35	33.632
2182.5	64QAM	35	33.632
2127.5	256QAM	35	33.531
2155	256QAM	35	33.531
2182.5	256QAM	35	33.531
2127.5	1024QAM	35	33.531
2155	1024QAM	35	33.531
2182.5	1024QAM	35	33.632
2130	QPSK	40	38.553
2155	QPSK	40	38.553
2180	QPSK	40	38.669
2130	16QAM	40	38.669
2155	16QAM	40	38.669
2180	16QAM	40	38.784
2130	64QAM	40	38.553



Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	99% OBW (MHz)
2155	64QAM	40	38.553
2180	64QAM	40	38.669
2130	256QAM	40	38.553
2155	256QAM	40	38.437
2180	256QAM	40	38.669
2130	1024QAM	40	38.553
2155	1024QAM	40	38.669
2180	1024QAM	40	38.669
2132.5	QPSK	45	43.111
2155	QPSK	45	43.111
2177.5	QPSK	45	43.242
2132.5	16QAM	45	43.111
2155	16QAM	45	43.242
2177.5	16QAM	45	43.372
2132.5	64QAM	45	43.242
2155	64QAM	45	43.242
2177.5	64QAM	45	43.372
2132.5	256QAM	45	43.111
2155	256QAM	45	43.111
2177.5	256QAM	45	43.242
2132.5	1024QAM	45	43.111
2155	1024QAM	45	43.242
2177.5	1024QAM	45	43.242

Sample plots below for 1024QAM operation:

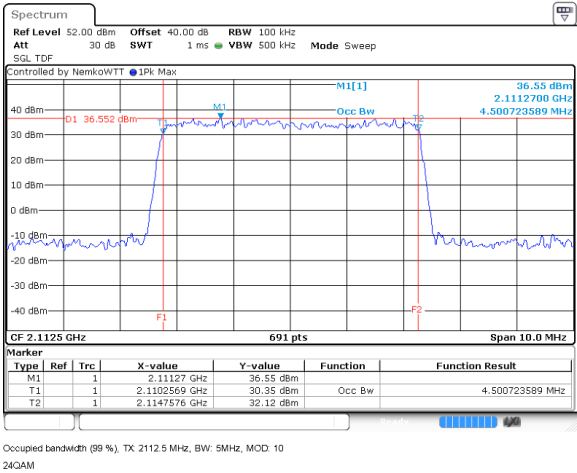


Figure 8.2-1: 99% OBW, Low CH 2112.5 MHz, 5 MHz, 1024QAM.

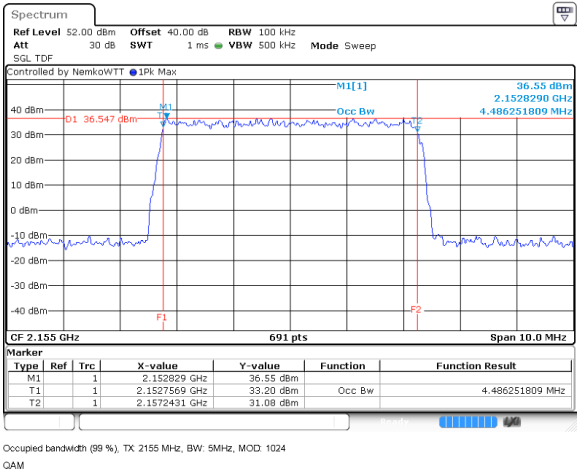


Figure 8.2-2: 99% OBW, Mid CH 2155 MHz, 5 MHz, 1024QAM.

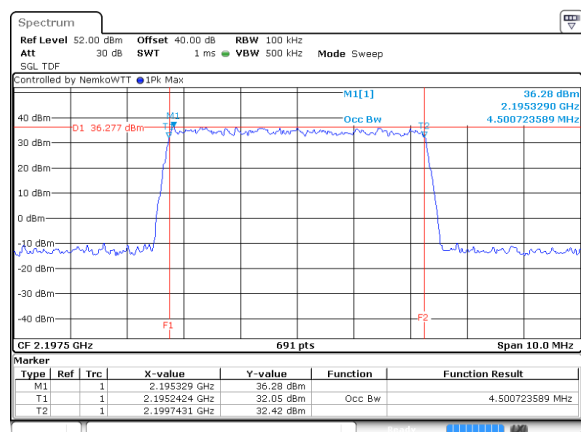


Figure 8.2-3: 99% OBW, High CH 2197.5 MHz, 5 MHz, 1024QAM.

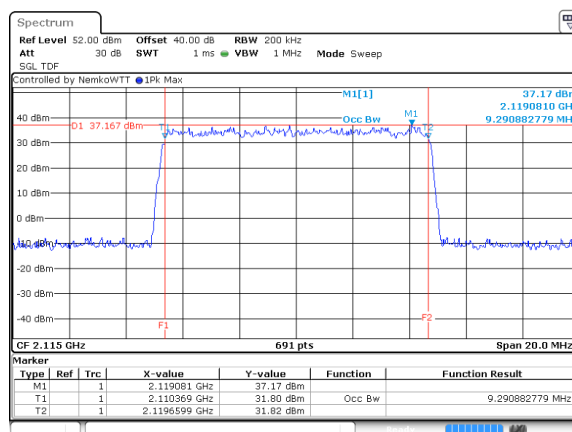


Figure 8.2-4: 99% OBW, Low CH 2115 MHz, 10 MHz, 1024QAM.

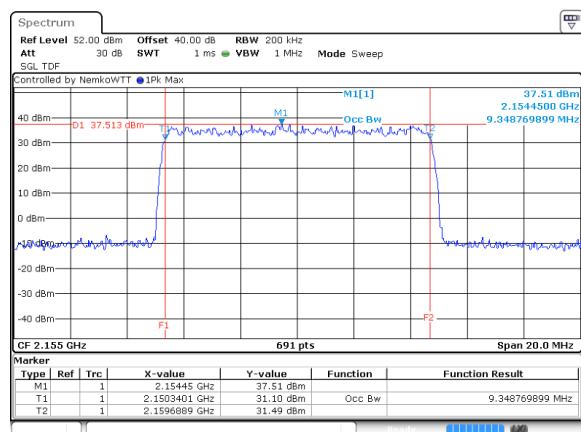


Figure 8.2-5: 99% OBW, Mid CH 2155 MHz, 10 MHz, 1024QAM.

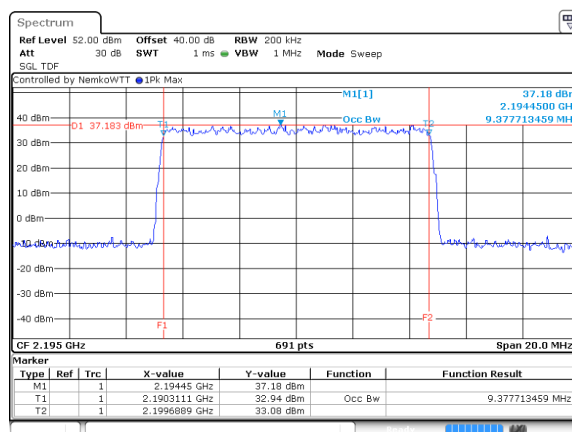


Figure 8.2-6: 99% OBW, High CH 2195 MHz, 10 MHz, 1024QAM.

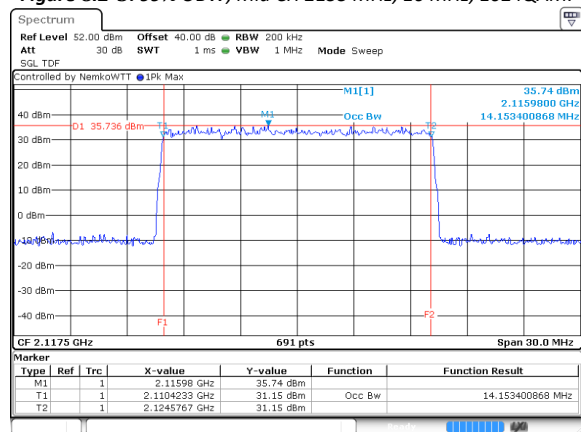


Figure 8.2-7: 99% OBW, Low CH 2117.5 MHz, 15 MHz, 1024QAM.

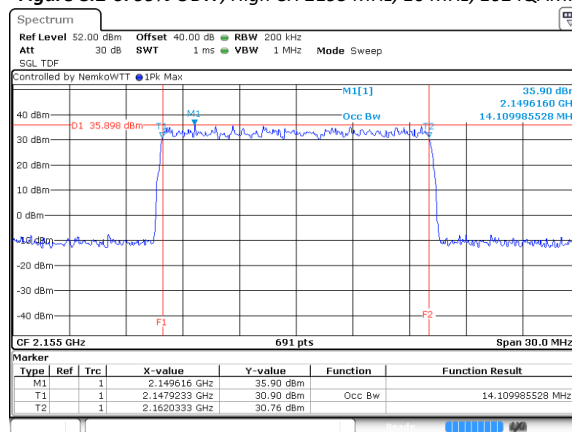


Figure 8.2-8: 99% OBW, Mid CH 2155 MHz, 15 MHz, 1024QAM.

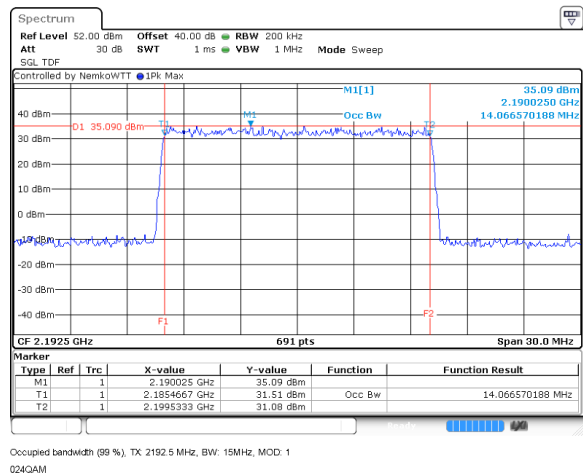


Figure 8.2-9: 99% OBW, High CH 2192.5 MHz, 15 MHz, 1024QAM.

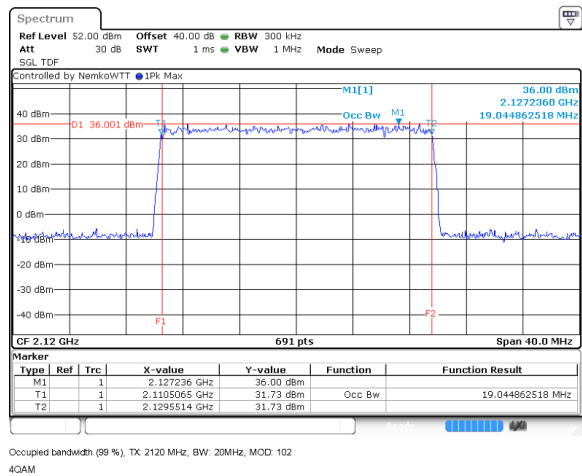


Figure 8.2-10: 99% OBW, Low CH 2120 MHz, 20 MHz, 1024QAM.

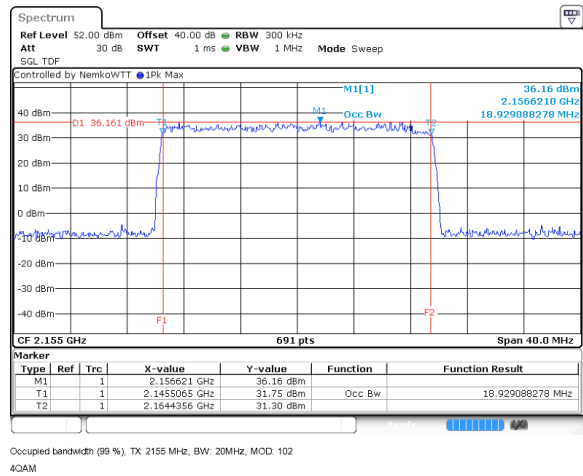


Figure 8.2-11: 99% OBW, Mid CH 2155 MHz, 20 MHz, 1024QAM.

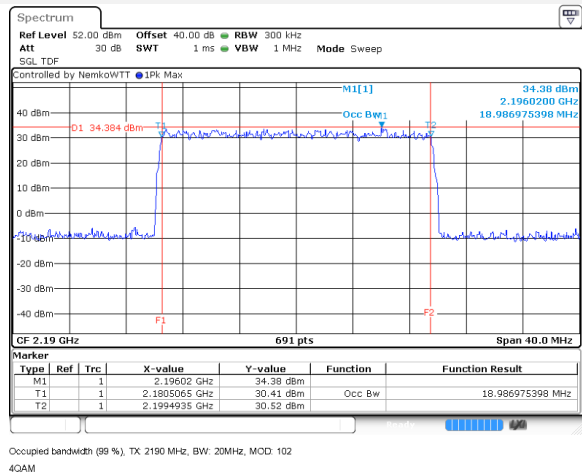


Figure 8.2-12: 99% OBW, High CH 2190 MHz, 20 MHz, 1024QAM.

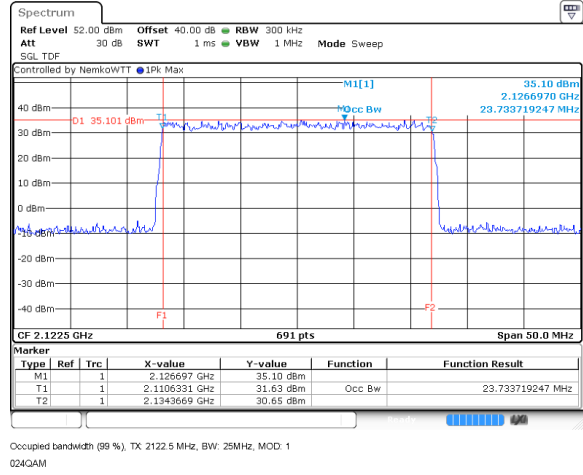


Figure 8.2-13: 99% OBW, Low CH 2122.5 MHz, 25 MHz, 1024QAM.

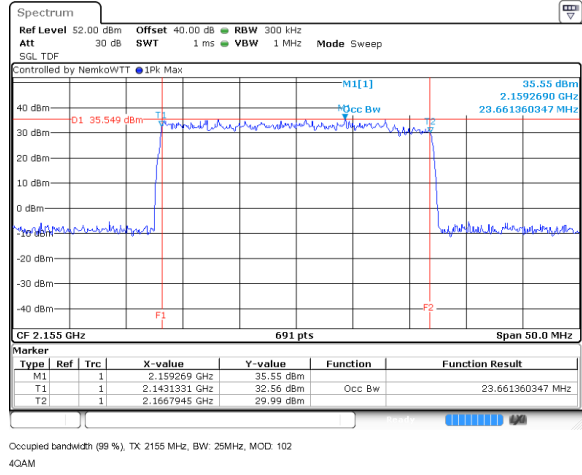


Figure 8.2-14: 99% OBW, Mid CH 2155 MHz, 25 MHz, 1024QAM.

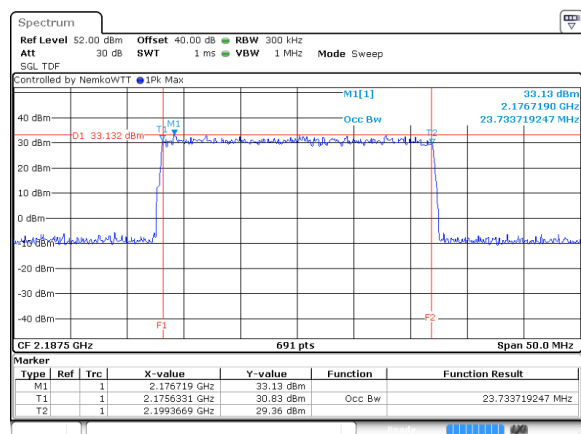


Figure 8.2-15: 99% OBW, High CH 2187.5 MHz, 25 MHz, 1024QAM.

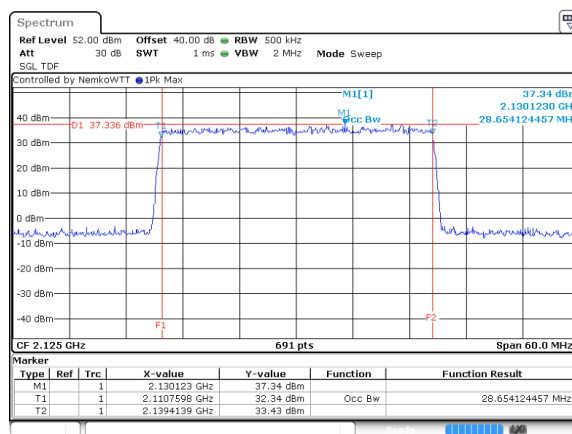


Figure 8.2-16: 99% OBW, Low CH 2125 MHz, 30 MHz, 1024QAM.

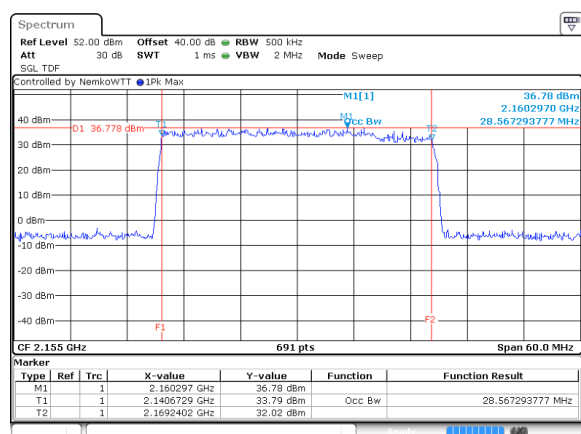


Figure 8.2-17: 99% OBW, Mid CH 2155 MHz, 30 MHz, 1024QAM.

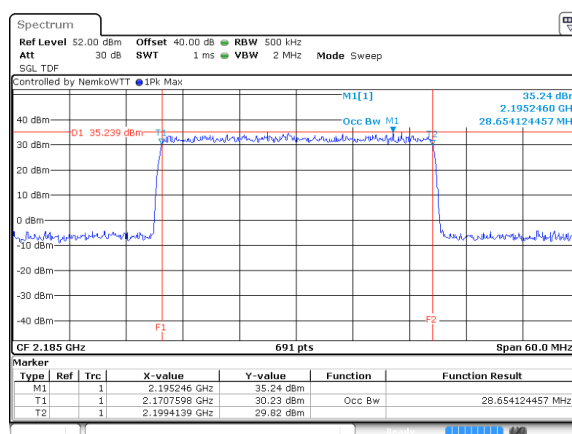


Figure 8.2-18: 99% OBW, High CH 2185 MHz, 30 MHz, 1024QAM.

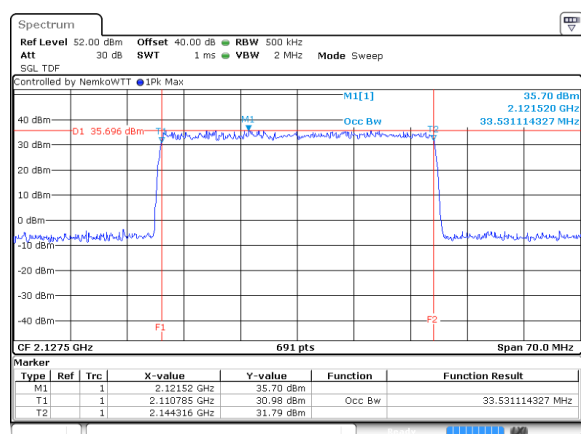


Figure 8.2-19: 99% OBW, Low CH 2127.5 MHz, 35 MHz, 1024QAM.

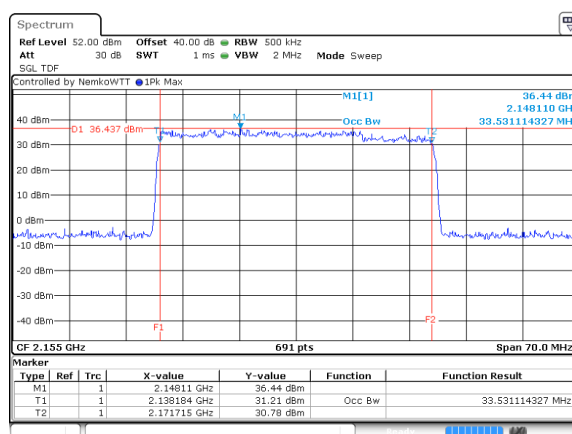
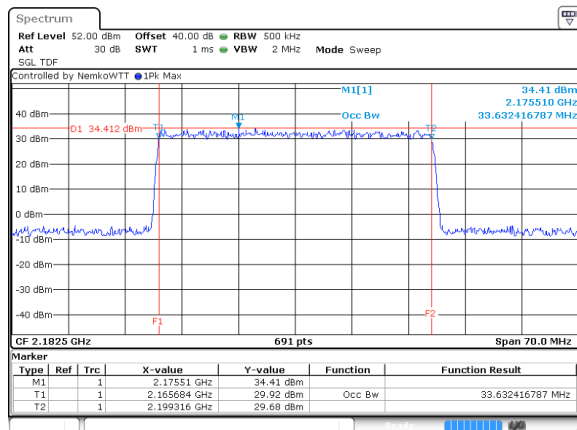
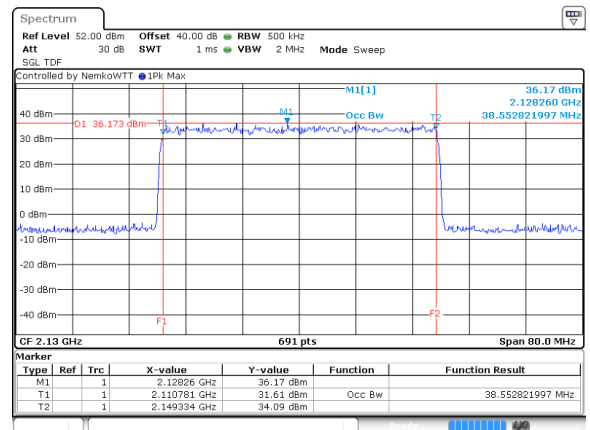


Figure 8.2-20: 99% OBW, Mid CH 2155 MHz, 35 MHz, 1024QAM.



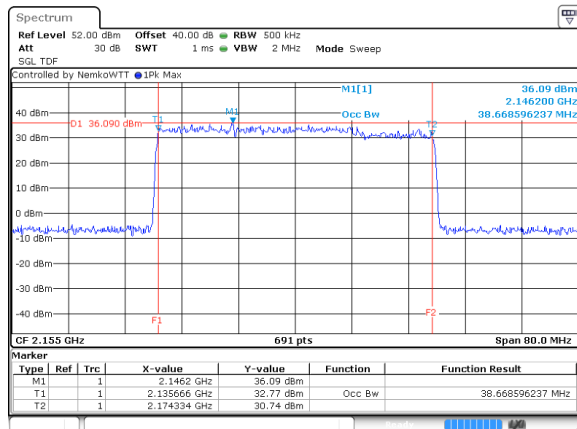
Occupied bandwidth (99 %), TX 2182.5 MHz, BW: 35MHz, MOD: 1
024QAM

Figure 8.2-21: 99% OBW, High CH 2182.5 MHz, 35 MHz, 1024QAM.



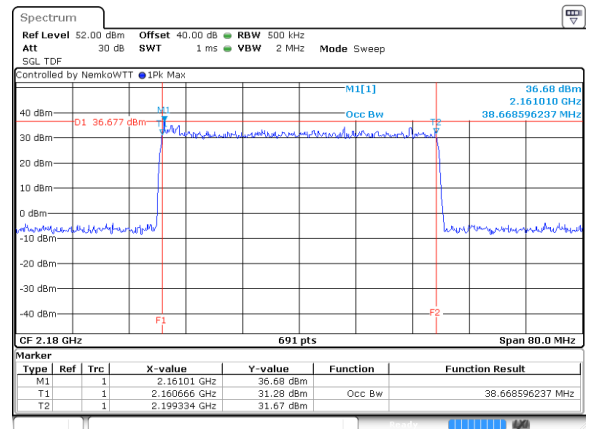
Occupied bandwidth (99 %), TX 2130 MHz, BW: 40MHz, MOD: 102
4QAM

Figure 8.2-22: 99% OBW, Low CH 2130 MHz, 40 MHz, 1024QAM.



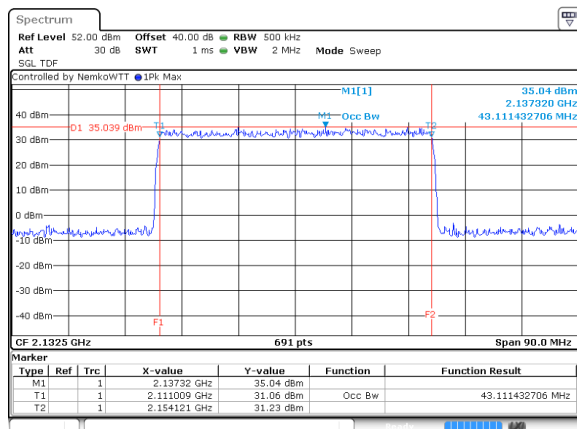
Occupied bandwidth (99 %), TX 2155 MHz, BW: 40MHz, MOD: 102
4QAM

Figure 8.2-23: 99% OBW, Mid CH 2155 MHz, 40 MHz, 1024QAM.



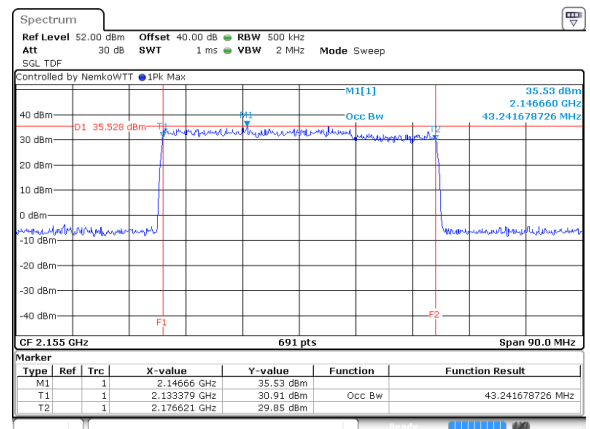
Occupied bandwidth (99 %), TX 2180 MHz, BW: 40MHz, MOD: 102
4QAM

Figure 8.2-24: 99% OBW, High CH 2180 MHz, 40 MHz, 1024QAM.



Occupied bandwidth (99 %), TX 2132.5 MHz, BW: 45MHz, MOD: 1
024QAM

Figure 8.2-25: 99% OBW, Low CH 2132.5 MHz, 45 MHz, 1024QAM.



Occupied bandwidth (99 %), TX 2155 MHz, BW: 45MHz, MOD: 102
4QAM

Figure 8.2-26: 99% OBW, Mid CH 2155 MHz, 45 MHz, 1024QAM.

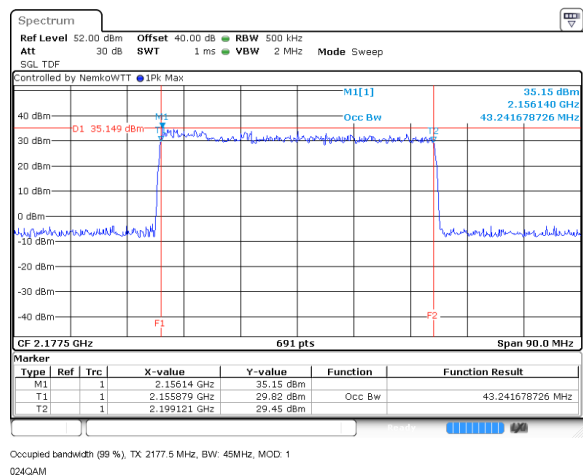


Figure 8.2-27: 99% OBW, High CH 2177.5 MHz, 45 MHz, 1024QAM.

8.3 FCC §27.53 (h)(3) 26 dB Occupied Bandwidth

8.3.1 Definitions and limits

(3) Measurement procedure. (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

8.3.2 Test summary

Test date	September 16, 2025	Temperature	22 °C
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1003.0 mbar
Verdict	Pass	Relative humidity	59 %

8.3.3 Observations, settings and special notes

None

8.3.3 Test data – LTE operation

Table 8.3-1: 26 dB Occupied bandwidth test results – LTE operation

Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	26 dB OBW (MHz)
2112.5	QPSK	5	4.845
2155	QPSK	5	4.815
2197.5	QPSK	5	4.845
2112.5	16QAM	5	4.860
2155	16QAM	5	4.815
2197.5	16QAM	5	4.785
2112.5	64QAM	5	4.845
2155	64QAM	5	4.770
2197.5	64QAM	5	4.830
2115	QPSK	10	9.630
2155	QPSK	10	9.540
2195	QPSK	10	9.510
2115	16QAM	10	9.450
2155	16QAM	10	9.570
2195	16QAM	10	9.600
2115	64QAM	10	9.540
2155	64QAM	10	9.630
2195	64QAM	10	9.510
2117.5	QPSK	15	14.310
2155	QPSK	15	14.355
2192.5	QPSK	15	14.400
2117.5	16QAM	15	14.355
2155	16QAM	15	14.220
2192.5	16QAM	15	14.085
2117.5	64QAM	15	14.220
2155	64QAM	15	14.445
2192.5	64QAM	15	14.400
2120	QPSK	20	19.260
2155	QPSK	20	19.320
2190	QPSK	20	19.080
2120	16QAM	20	18.900
2155	16QAM	20	19.440
2190	16QAM	20	19.140
2120	64QAM	20	19.320

Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	26 dB OBW (MHz)
2155	64QAM	20	19.380
2190	64QAM	20	19.440

8.3.4 Test data – 5G NR operation

Table 8.3-2: 26 dB Occupied bandwidth test results – 5G NR operation

Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	26 dB OBW (MHz)
2112.5	QPSK	5	4.845
2155	QPSK	5	4.785
2197.5	QPSK	5	4.845
2112.5	16QAM	5	4.8
2155	16QAM	5	4.815
2197.5	16QAM	5	4.815
2112.5	64QAM	5	4.845
2155	64QAM	5	4.785
2197.5	64QAM	5	4.86
2112.5	256QAM	5	4.815
2155	256QAM	5	4.83
2197.5	256QAM	5	4.77
2112.5	1024QAM	5	4.83
2155	1024QAM	5	4.86
2197.5	1024QAM	5	4.83
2115	QPSK	10	9.81
2155	QPSK	10	9.81
2195	QPSK	10	9.93
2115	16QAM	10	9.78
2155	16QAM	10	9.78
2195	16QAM	10	9.75
2115	64QAM	10	9.81
2155	64QAM	10	9.81
2195	64QAM	10	9.87
2115	256QAM	10	9.87
2155	256QAM	10	9.81
2195	256QAM	10	9.87
2115	1024QAM	10	9.81
2155	1024QAM	10	9.84
2195	1024QAM	10	9.81
2117.5	QPSK	15	14.715
2155	QPSK	15	14.76
2192.5	QPSK	15	14.805
2117.5	16QAM	15	14.67
2155	16QAM	15	14.76
2192.5	16QAM	15	14.76
2117.5	64QAM	15	14.715
2155	64QAM	15	14.76
2192.5	64QAM	15	14.715
2117.5	256QAM	15	14.805
2155	256QAM	15	14.76
2192.5	256QAM	15	14.715
2117.5	1024QAM	15	14.715
2155	1024QAM	15	14.67
2192.5	1024QAM	15	14.76
2120	QPSK	20	19.68
2155	QPSK	20	19.8
2190	QPSK	20	19.74
2120	16QAM	20	19.86
2155	16QAM	20	19.86
2190	16QAM	20	19.8
2120	64QAM	20	19.8
2155	64QAM	20	19.86

Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	26 dB OBW (MHz)
2190	64QAM	20	19.86
2120	256QAM	20	19.86
2155	256QAM	20	19.8
2190	256QAM	20	19.8
2120	1024QAM	20	19.8
2155	1024QAM	20	19.86
2190	1024QAM	20	19.92
2122.5	QPSK	25	24.6
2155	QPSK	25	24.675
2187.5	QPSK	25	24.675
2122.5	16QAM	25	24.75
2155	16QAM	25	24.75
2187.5	16QAM	25	24.675
2122.5	64QAM	25	24.6
2155	64QAM	25	24.675
2187.5	64QAM	25	24.675
2122.5	256QAM	25	24.75
2155	256QAM	25	24.75
2187.5	256QAM	25	24.675
2122.5	1024QAM	25	24.6
2155	1024QAM	25	24.6
2187.5	1024QAM	25	24.825
2125	QPSK	30	29.88
2155	QPSK	30	29.88
2185	QPSK	30	29.88
2125	16QAM	30	29.79
2155	16QAM	30	29.79
2185	16QAM	30	29.88
2125	64QAM	30	29.88
2155	64QAM	30	29.97
2185	64QAM	30	29.88
2125	256QAM	30	29.88
2155	256QAM	30	29.88
2185	256QAM	30	29.97
2125	1024QAM	30	29.97
2155	1024QAM	30	29.88
2185	1024QAM	30	29.97
2127.5	QPSK	35	34.86
2155	QPSK	35	34.965
2182.5	QPSK	35	34.86
2127.5	16QAM	35	34.965
2155	16QAM	35	34.965
2182.5	16QAM	35	34.86
2127.5	64QAM	35	34.965
2155	64QAM	35	35.07
2182.5	64QAM	35	34.965
2127.5	256QAM	35	34.965
2155	256QAM	35	34.86
2182.5	256QAM	35	34.965
2127.5	1024QAM	35	34.965
2155	1024QAM	35	34.965
2182.5	1024QAM	35	35.07
2130	QPSK	40	39.96
2155	QPSK	40	39.96
2180	QPSK	40	39.96
2130	16QAM	40	39.96
2155	16QAM	40	39.96
2180	16QAM	40	39.96
2130	64QAM	40	40.08
2155	64QAM	40	40.08
2180	64QAM	40	39.96
2130	256QAM	40	40.08

Frequency channel (MHz)	Modulation	Occupied Bandwidth Declared (MHz)	26 dB OBW (MHz)
2155	256QAM	40	39.96
2180	256QAM	40	39.96
2130	1024QAM	40	39.96
2155	1024QAM	40	40.08
2180	1024QAM	40	39.96
2132.5	QPSK	45	44.685
2155	QPSK	45	44.685
2177.5	QPSK	45	44.685
2132.5	16QAM	45	44.82
2155	16QAM	45	44.55
2177.5	16QAM	45	44.685
2132.5	64QAM	45	44.55
2155	64QAM	45	44.685
2177.5	64QAM	45	44.685
2132.5	256QAM	45	44.685
2155	256QAM	45	44.685
2177.5	256QAM	45	44.82
2132.5	1024QAM	45	44.685
2155	1024QAM	45	44.55
2177.5	1024QAM	45	44.685



Sample plots below for 1024QAM operation:

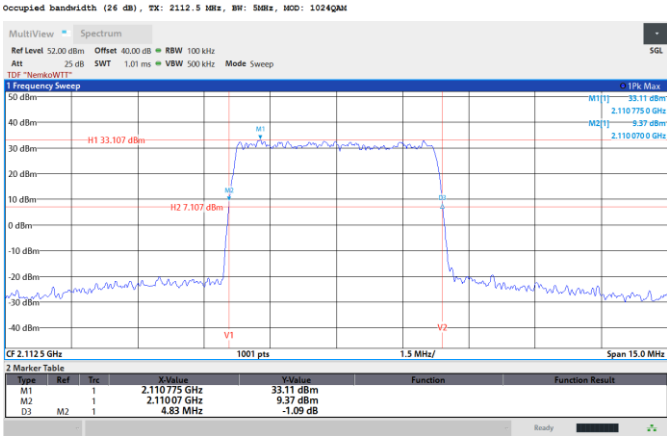


Figure 8.3-1: 26 dB OBW, Low CH 2112.5 MHz, 5 MHz, 1024QAM.

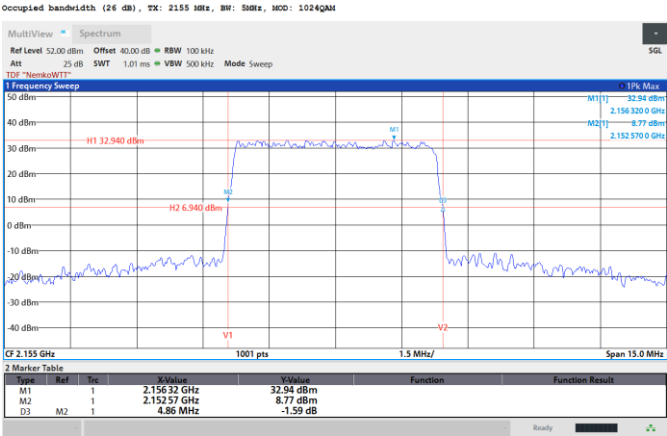


Figure 8.3-2: 26 dB OBW, Mid CH 2155 MHz, 5 MHz, 1024QAM.

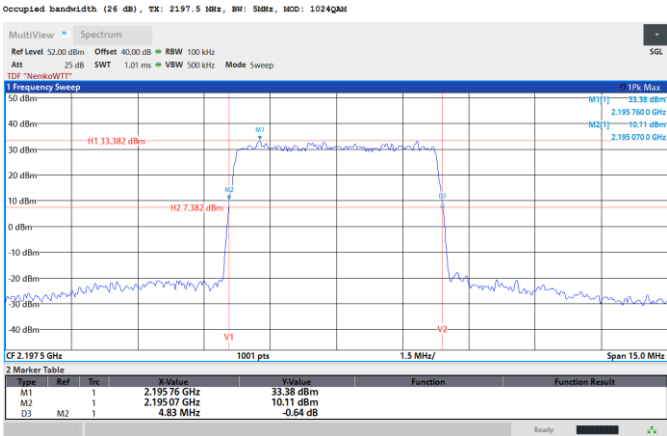


Figure 8.3-3: 26 dB OBW, High CH 2197.5 MHz, 5 MHz, 1024QAM.

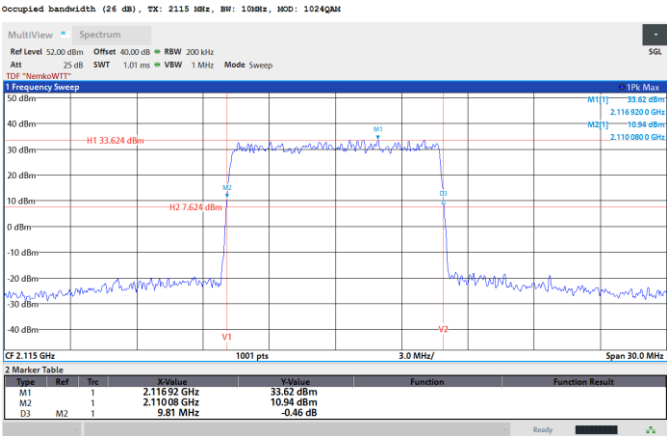


Figure 8.3-4: 26 dB OBW, Low CH 2115 MHz, 10 MHz, 1024QAM.

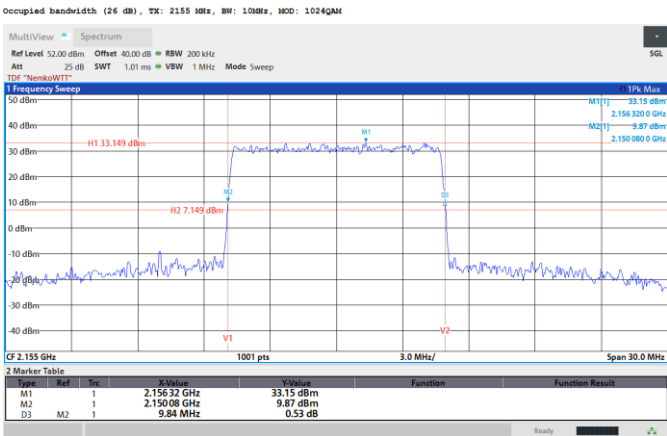


Figure 8.3-5: 26 dB OBW, Mid CH 2155 MHz, 10 MHz, 1024QAM.

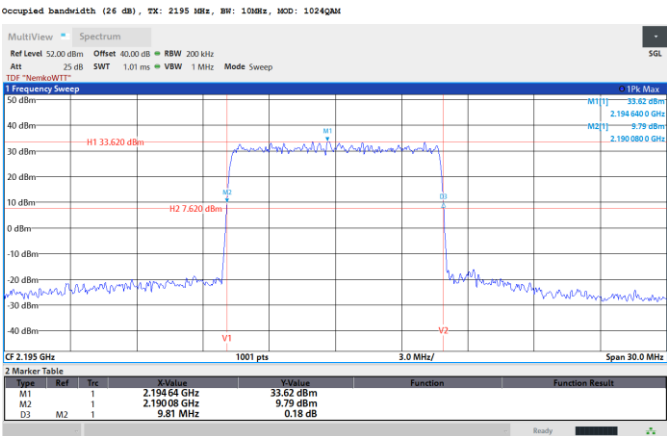


Figure 8.3-6: 26 dB OBW, High CH 2195 MHz, 10 MHz, 1024QAM.

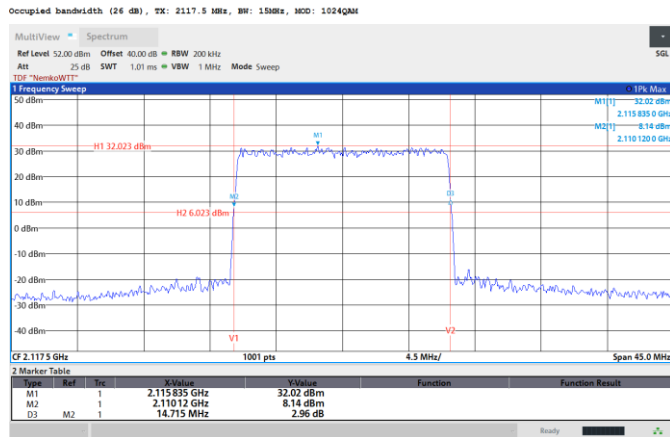


Figure 8.3-7: 26 dB OBW, Low CH 2117.5 MHz, 15 MHz, 1024QAM.

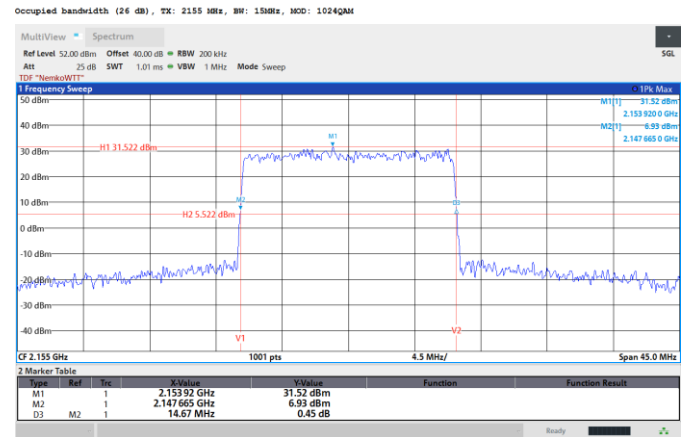


Figure 8.3-8: 26 dB OBW, Mid CH 2155 MHz, 15 MHz, 1024QAM.

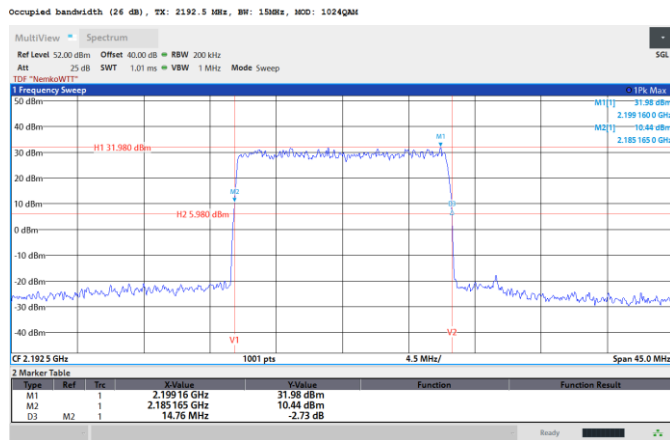


Figure 8.3-9: 26 dB OBW, High CH 2192.5 MHz, 15 MHz, 1024QAM.

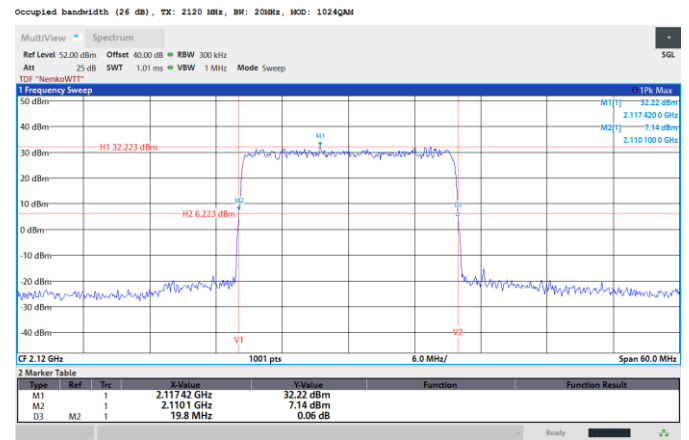


Figure 8.3-10: 26 dB OBW, Low CH 2120 MHz, 20 MHz, 1024QAM.



Figure 8.3-11: 26 dB OBW, Mid CH 2155 MHz, 20 MHz, 1024QAM.

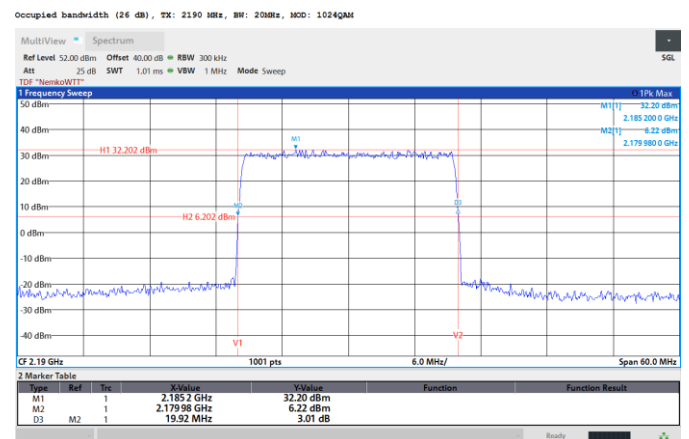


Figure 8.3-12: 26 dB OBW, High CH 2190 MHz, 20 MHz, 1024QAM.

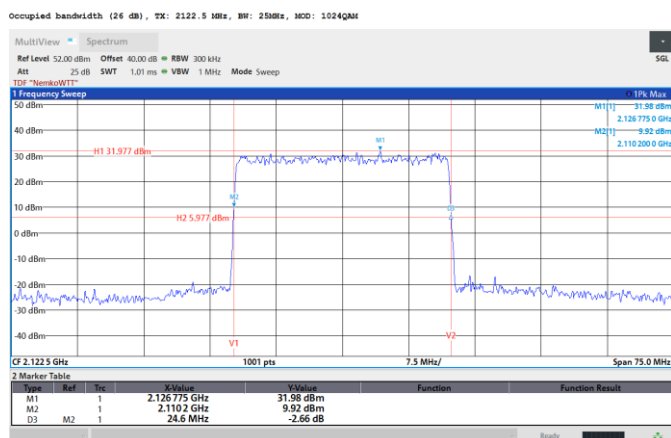


Figure 8.3-13: 26 dB OBW, Low CH 2122.5 MHz, 25 MHz, 1024QAM.

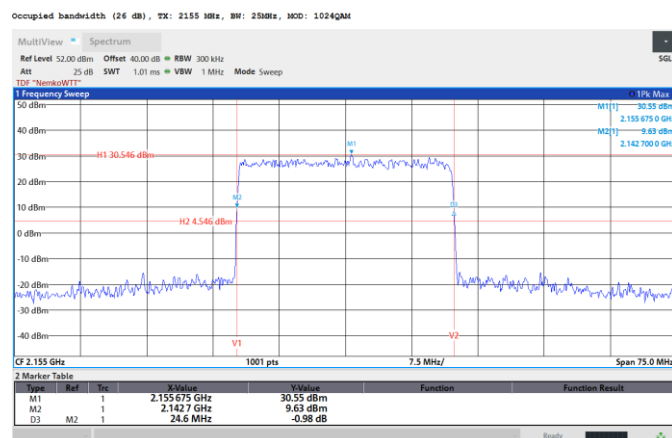


Figure 8.3-14: 26 dB OBW, Mid CH 2155 MHz, 25 MHz, 1024QAM.

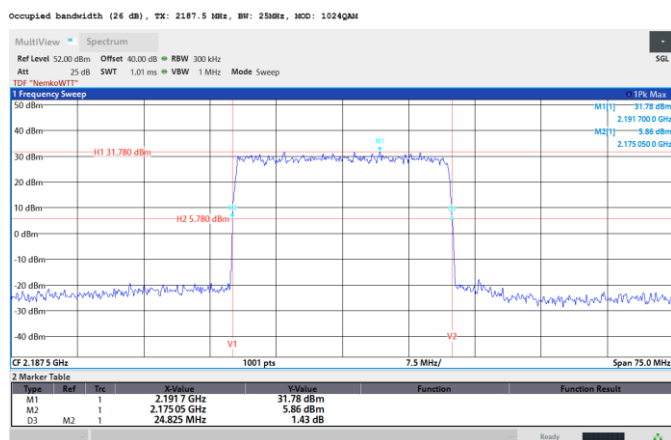


Figure 8.3-15: 26 dB OBW, High CH 2187.5 MHz, 25 MHz, 1024QAM.

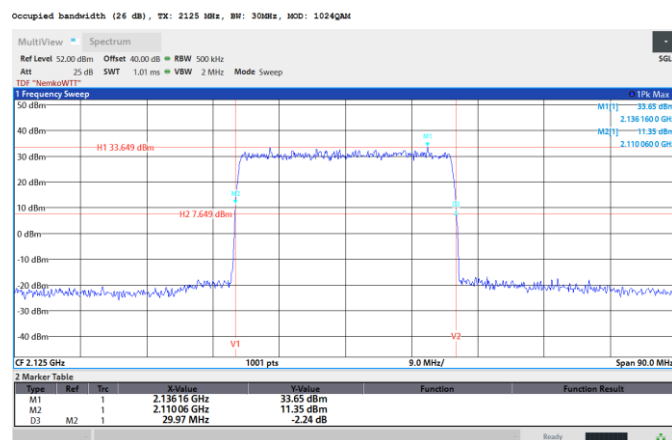


Figure 8.3-16: 26 dB OBW, Low CH 2125 MHz, 30 MHz, 1024QAM.

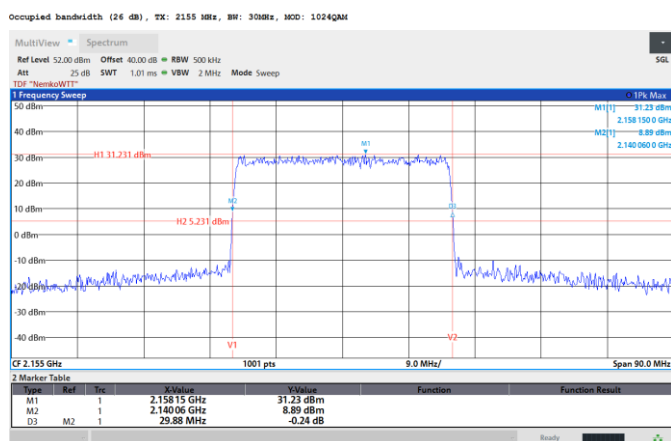


Figure 8.3-17: 26 dB OBW, Mid CH 2155 MHz, 30 MHz, 1024QAM.

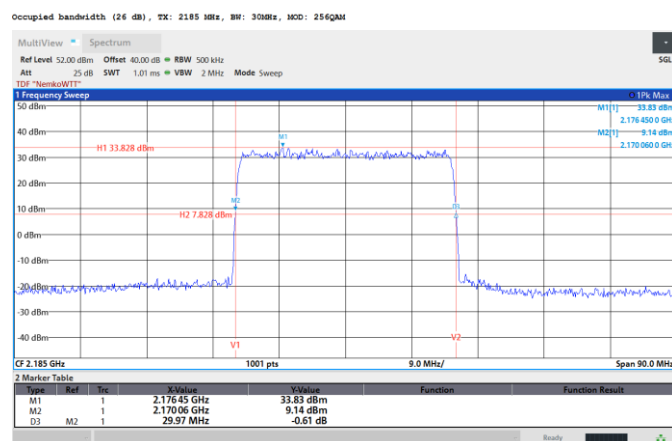


Figure 8.3-18: 26 dB OBW, High CH 2185 MHz, 30 MHz, 1024QAM.

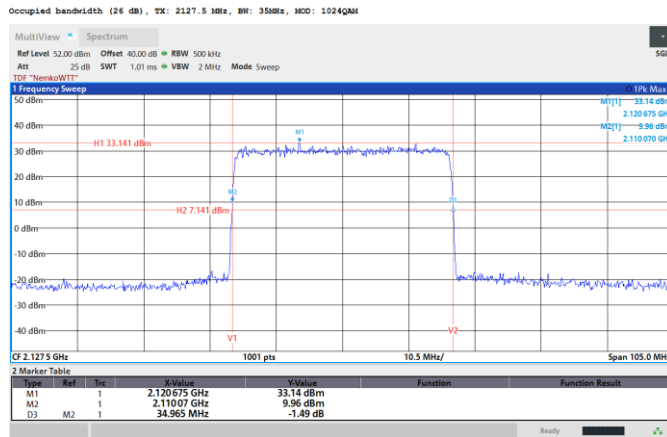


Figure 8.3-19: 26 dB OBW, Low CH 2127.5 MHz, 35 MHz, 1024QAM.

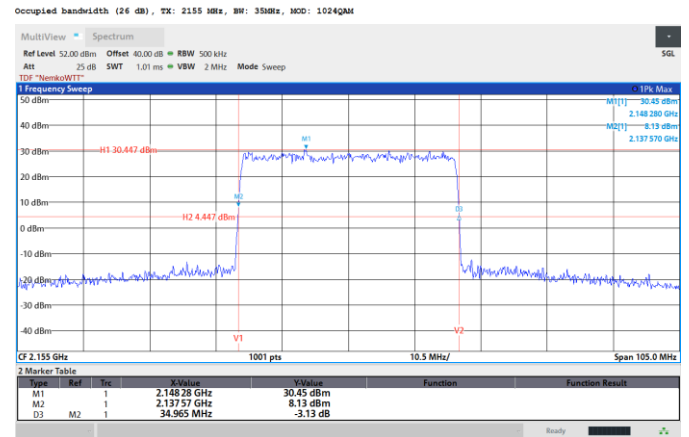


Figure 8.3-20: 26 dB OBW, Mid CH 2155 MHz, 35 MHz, 1024QAM.

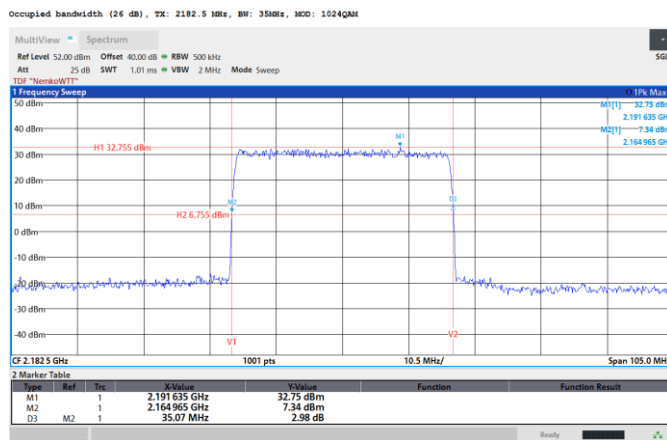


Figure 8.3-21: 26 dB OBW, High CH 2182.5 MHz, 35 MHz, 1024QAM.

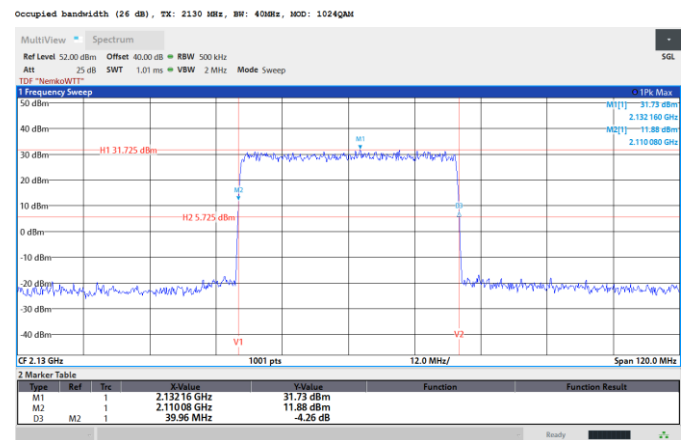


Figure 8.3-22: 26 dB OBW, Low CH 2130 MHz, 40 MHz, 1024QAM.



Figure 8.3-23: 26 dB OBW, Mid CH 2155 MHz, 40 MHz, 1024QAM.

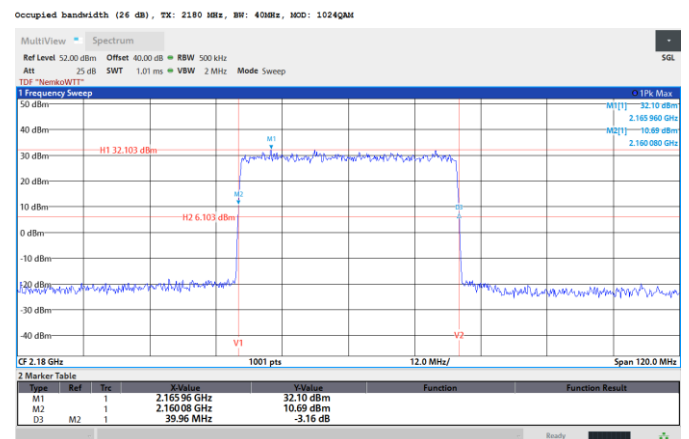


Figure 8.3-24: 26 dB OBW, High CH 2180 MHz, 40 MHz, 1024QAM.

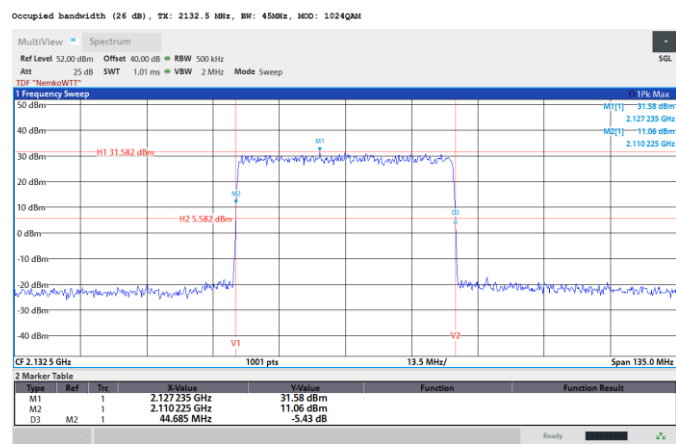


Figure 8.3-25: 26 dB OBW, Low CH 2132.5 MHz, 45 MHz, 1024QAM.

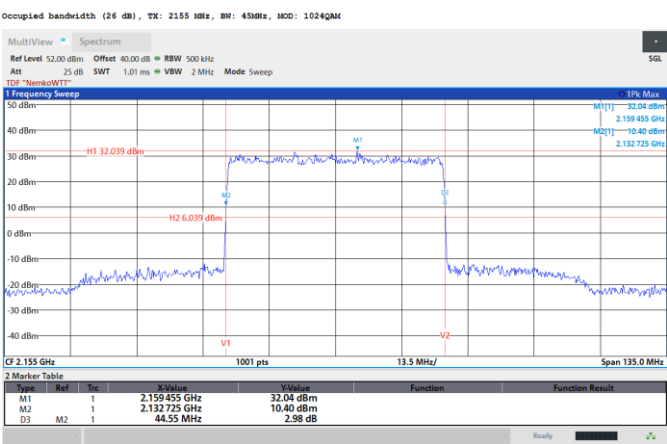


Figure 8.3-26: 26 dB OBW, Mid CH 2155 MHz, 45 MHz, 1024QAM.

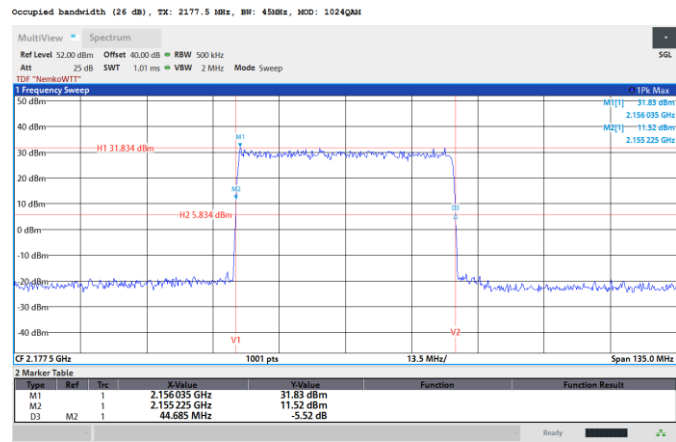


Figure 8.3-27: 26 dB OBW, High CH 2177.5 MHz, 45 MHz, 1024QAM.

8.4 FCC 27.50(j)(2) Output power

8.4.1 Definitions and limits

(j) The following power requirements apply to stations transmitting in the 3700-3980 MHz band:

(2) The power of each fixed or base station transmitting in the 3700-3980 MHz band and situated in any geographic location other than that described in paragraph (j)(1) of this section is limited to an EIRP of 1640 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.

8.4.2 Test summary

Test date	August 26, 2025	Temperature	22 °C; 20 °C
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1005.0 mbar; 1005 mbar
Verdict	Pass	Relative humidity	59 %; 53 %

8.4.3 Observations, settings and special notes

EIRP limits are deployment-dependent. To ensure compliance with legal limits, radio setup and carrier configurations are addressed during site commissioning. Reported results reflect maximum rated output power for worst-case emission assessment. EIRP values, based on possible beam configurations, represent worst-case scenarios using ideal antenna parameters. Customer configurations will be limited to comply with the legal limit of 1640 W/MHz during site setup. Non-compliant configurations will be restricted to lower carrier power. Refer to RF exposure report for information regarding maximum permissible antenna gain.

This test was made across the conducted port and using a spectrum analyzer and transmitting at full power. An offset was added via transducer factor to compensate for the losses from the cable and attenuator (40 dB) used.

EUT has four antenna ports which can be transmit at the same time in a correlated way. This correlation permits to make the measurement in one port, getting as a result the total power from the four ports adding a factor calculated from the next equation:

$$\text{Correlation factor} = 10\text{Log}(N)$$

Where N is the number of ports. In this specific case, $N = 4$,

$$\text{Correlation factor} = 10\text{Log}(4) = 6.02 \text{ dB}$$

To select the measurement port, a quick power test was done. The four ports are similar, however, the port with maximum power was chosen to make all the remaining tests.

Table 8.4-1: Power evaluation per port.

Band	Modulation	OBW	Channel	Power Port A	Power Port B	Power Port C	Power Port D
N66	16QAM	5 MHz	2155 MHz	41.68 dBm	41.80 dBm	41.80 dBm	41.78 dBm

8.4.4 Test data – LTE operation

Table 8.4-2: FCC 27.50(j)(2) Output power (EIRP) results (for information only)

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2112.5	QPSK	5	43.41	18.00	61.41	6.02	67.43
2155	QPSK	5	43.85	18.00	61.85	6.02	67.87
2197.5	QPSK	5	43.36	18.00	61.36	6.02	67.38
2112.5	16QAM	5	41.44	18.00	59.44	6.02	65.46
2155	16QAM	5	42.17	18.00	60.17	6.02	66.19
2197.5	16QAM	5	42.55	18.00	60.55	6.02	66.57
2112.5	64QAM	5	43.48	18.00	61.48	6.02	67.50
2155	64QAM	5	42.20	18.00	60.20	6.02	66.22
2197.5	64QAM	5	41.72	18.00	59.72	6.02	65.74
2115	QPSK	10	43.56	18.00	61.56	6.02	67.58
2155	QPSK	10	43.88	18.00	61.88	6.02	67.90

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2195	QPSK	10	41.99	18.00	59.99	6.02	66.01
2115	16QAM	10	43.24	18.00	61.24	6.02	67.26
2155	16QAM	10	43.09	18.00	61.09	6.02	67.11
2195	16QAM	10	42.59	18.00	60.59	6.02	66.61
2115	64QAM	10	43.65	18.00	61.65	6.02	67.67
2155	64QAM	10	43.97	18.00	61.97	6.02	67.99
2195	64QAM	10	43.52	18.00	61.52	6.02	67.54
2117.5	QPSK	15	43.54	18.00	61.54	6.02	67.56
2155	QPSK	15	43.95	18.00	61.95	6.02	67.97
2192.5	QPSK	15	43.72	18.00	61.72	6.02	67.74
2117.5	16QAM	15	40.50	18.00	58.50	6.02	64.52
2155	16QAM	15	43.95	18.00	61.95	6.02	67.97
2192.5	16QAM	15	43.47	18.00	61.47	6.02	67.49
2117.5	64QAM	15	43.60	18.00	61.60	6.02	67.62
2155	64QAM	15	41.49	18.00	59.49	6.02	65.51
2192.5	64QAM	15	41.03	18.00	59.03	6.02	65.05
2120	QPSK	20	43.68	18.00	61.68	6.02	67.70
2155	QPSK	20	43.96	18.00	61.96	6.02	67.98
2190	QPSK	20	43.76	18.00	61.76	6.02	67.78
2120	16QAM	20	42.89	18.00	60.89	6.02	66.91
2155	16QAM	20	43.99	18.00	61.99	6.02	68.01
2190	16QAM	20	43.68	18.00	61.68	6.02	67.70
2120	64QAM	20	43.78	18.00	61.78	6.02	67.80
2155	64QAM	20	43.91	18.00	61.91	6.02	67.93
2190	64QAM	20	41.20	18.00	59.20	6.02	65.22

Table 8.4-3: FCC 27.50(j)(2) Output power density results

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power density (dBm/MHz)	Antenna gain (dBi)	EIRP density (dBm/MHz)	MIMO Correction (dB)	EIRP density (4 ports) (dBm/MHz)	EIRP density (4 ports) (W/MHz)
2112.5	QPSK	5	37.86	18.00	55.86	6.02	61.88	1541.70
2155	QPSK	5	38.49	18.00	56.49	6.02	62.51	1782.38
2197.5	QPSK	5	37.85	18.00	55.85	6.02	61.87	1538.15
2112.5	16QAM	5	35.15	18.00	53.15	6.02	59.17	826.04
2155	16QAM	5	37.44	18.00	55.44	6.02	61.46	1399.59
2197.5	16QAM	5	37.87	18.00	55.87	6.02	61.89	1545.25
2112.5	64QAM	5	36.98	18.00	54.98	6.02	61.00	1258.93
2155	64QAM	5	38.22	18.00	56.22	6.02	62.24	1674.94
2197.5	64QAM	5	37.60	18.00	55.60	6.02	61.62	1452.11
2115	QPSK	10	35.05	18.00	53.05	6.02	59.07	807.24
2155	QPSK	10	32.07	18.00	50.07	6.02	56.09	406.44
2195	QPSK	10	34.96	18.00	52.96	6.02	58.98	790.68
2115	16QAM	10	33.02	18.00	51.02	6.02	57.04	505.82
2155	16QAM	10	34.81	18.00	52.81	6.02	58.83	763.84
2195	16QAM	10	31.72	18.00	49.72	6.02	55.74	374.97
2115	64QAM	10	35.11	18.00	53.11	6.02	59.13	818.46
2155	64QAM	10	35.30	18.00	53.30	6.02	59.32	855.07
2195	64QAM	10	34.84	18.00	52.84	6.02	58.86	769.13
2117.5	QPSK	15	32.78	18.00	50.78	6.02	56.80	478.63
2155	QPSK	15	33.43	18.00	51.43	6.02	57.45	555.90
2192.5	QPSK	15	33.17	18.00	51.17	6.02	57.19	523.60
2117.5	16QAM	15	33.14	18.00	51.14	6.02	57.16	520.00
2155	16QAM	15	34.21	18.00	52.21	6.02	58.23	665.27
2192.5	16QAM	15	32.78	18.00	50.78	6.02	56.80	478.63
2117.5	64QAM	15	31.02	18.00	49.02	6.02	55.04	319.15
2155	64QAM	15	30.31	18.00	48.31	6.02	54.33	271.02
2192.5	64QAM	15	33.36	18.00	51.36	6.02	57.38	547.02
2120	QPSK	20	32.10	18.00	50.10	6.02	56.12	409.26
2155	QPSK	20	32.38	18.00	50.38	6.02	56.40	436.52
2190	QPSK	20	32.10	18.00	50.10	6.02	56.12	409.26
2120	16QAM	20	31.48	18.00	49.48	6.02	55.50	354.81
2155	16QAM	20	32.12	18.00	50.12	6.02	56.14	411.15
2190	16QAM	20	32.54	18.00	50.54	6.02	56.56	452.90
2120	64QAM	20	32.33	18.00	50.33	6.02	56.35	431.52
2155	64QAM	20	32.30	18.00	50.30	6.02	56.32	428.55
2190	64QAM	20	32.22	18.00	50.22	6.02	56.24	420.73

Sample plots; EIRP density, 64QAM:

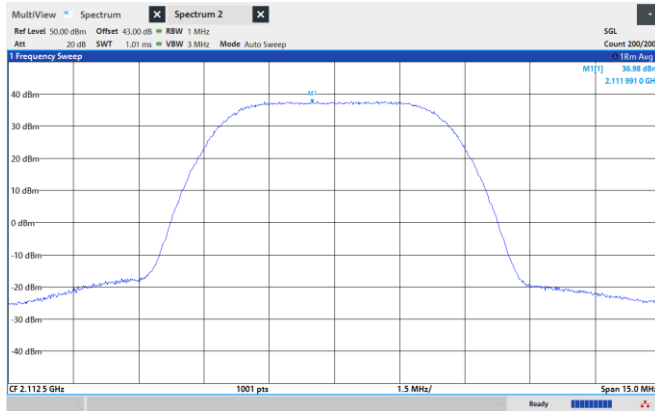


Figure 8.4-1: 64QAM, 5 MHz BW, 2112.5 MHz

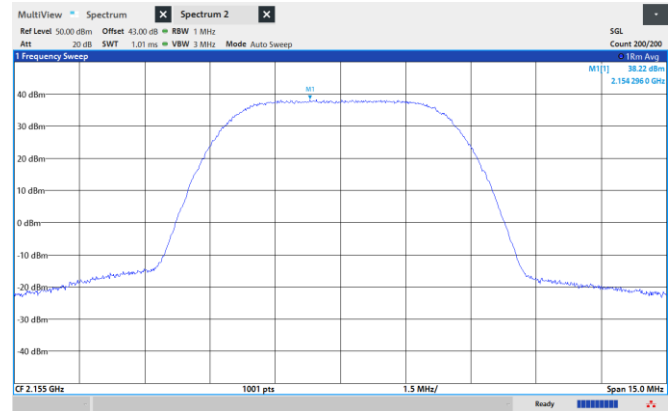


Figure 8.4-2: 64QAM, 5 MHz BW, 2155 MHz

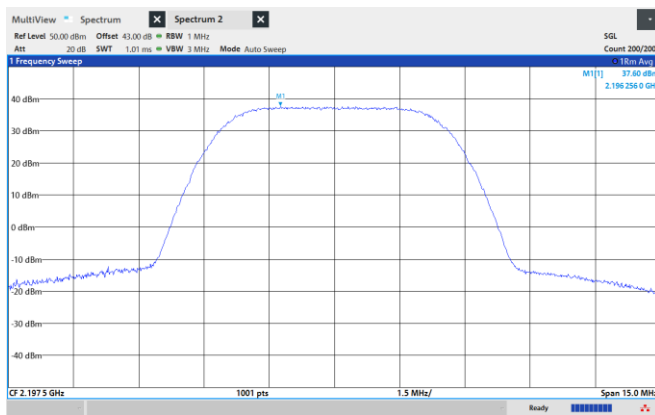


Figure 8.4-3: 64QAM, 5 MHz BW, 2197.5 MHz

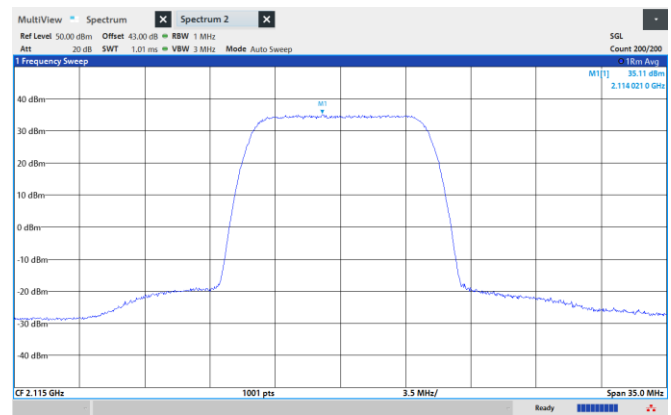


Figure 8.4-4: 64QAM, 10 MHz BW, 2115 MHz

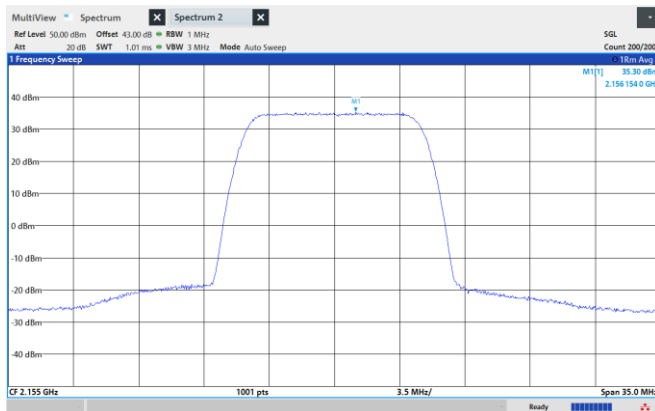


Figure 8.4-5: 64QAM, 10 MHz BW, 2155 MHz

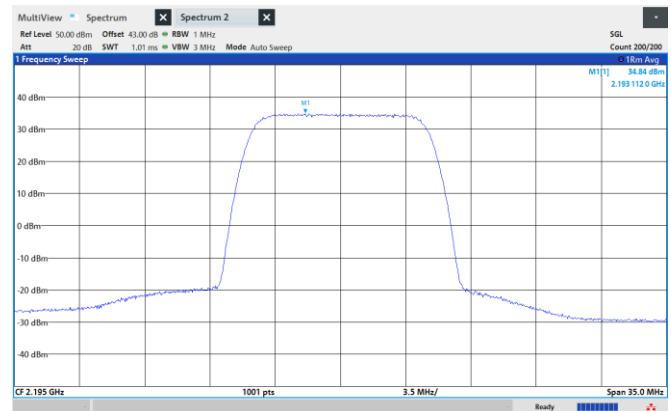


Figure 8.4-6: 64QAM, 10 MHz BW, 2195 MHz

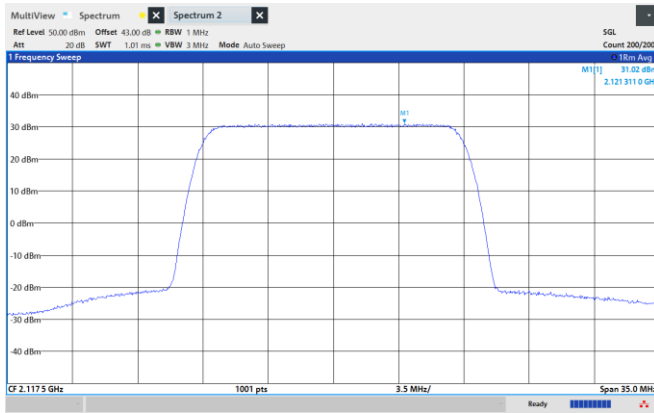


Figure 8.4-7: 64QAM, 15 MHz BW, 2117.5 MHz

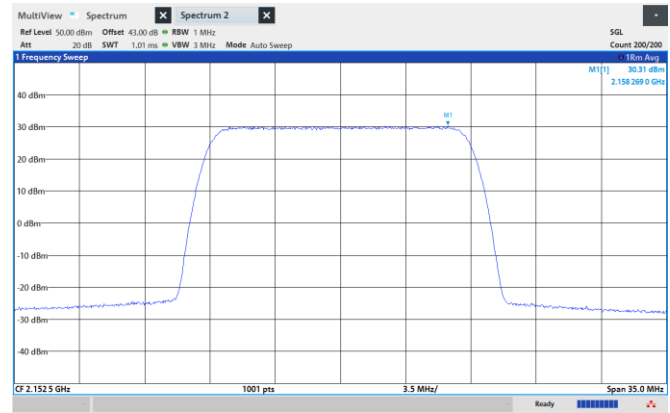


Figure 8.4-8: 64QAM, 15 MHz BW, 2125.5 MHz

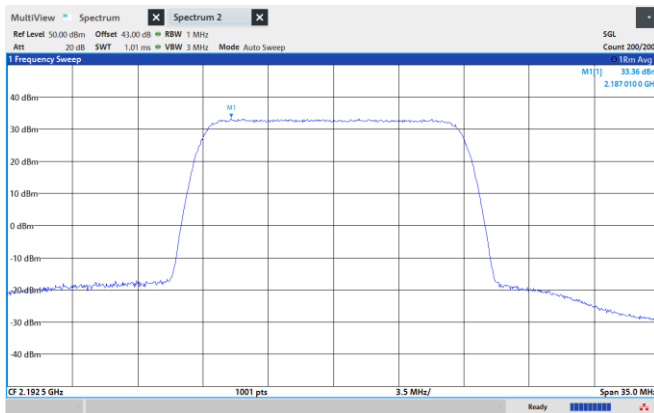


Figure 8.4-9: 64QAM, 15 MHz BW, 2192.5 MHz

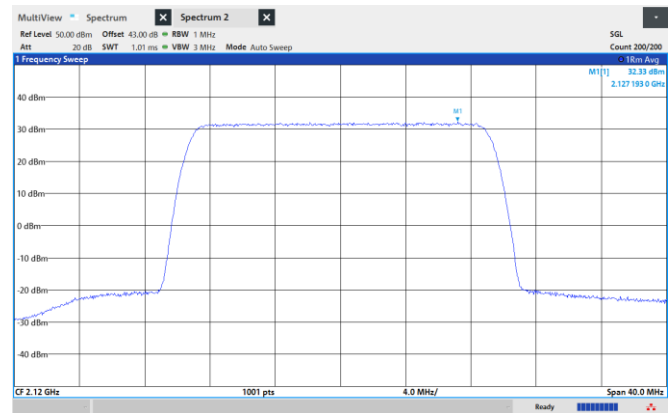


Figure 8.4-10: 64QAM, 20 MHz BW, 2120 MHz

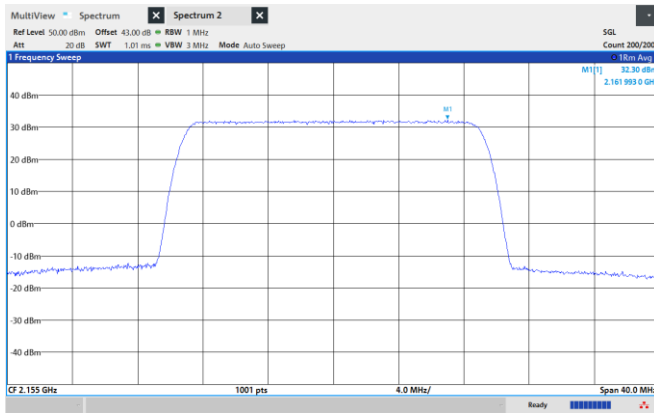


Figure 8.4-11: 64QAM, 20 MHz BW, 2155 MHz

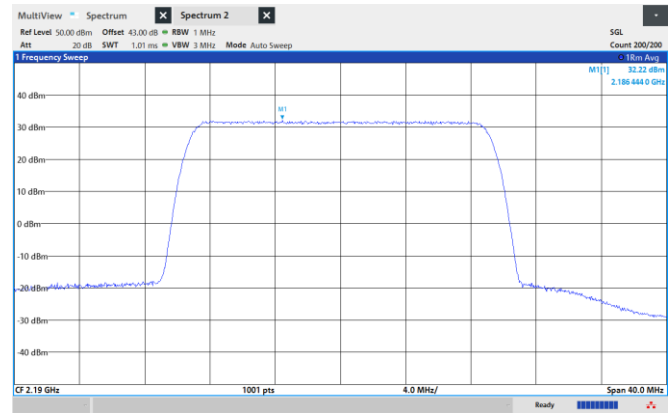


Figure 8.4-12: 64QAM, 20 MHz BW, 2190 MHz

8.4.5 Test data – LTE multi-carrier operation

LTE multi-carrier operation was verified in the following operational modes:

Table 8.4-4: LTE multi-carrier operating modes

Scenario	# Carrier	Bandwidth (MHz)	F1 (DL MHz)	F2 (DL MHz)	F3 (DL MHz)	Comments
1	2	5/5	2112.5	2117.5	N/A	QPSK modulation, 2 contiguous carriers at lowest channels
2	2	5/5	2192.5	2197.5	N/A	QPSK modulation, 2 contiguous carriers at highest channels
3	2	5/5	2112.5	2197.5	N/A	QPSK modulation, 2 non-contiguous carriers; one at lowest channel, one at highest channel
4	3	5/5/5	2112.5	2117.5	2122.5	QPSK modulation, 3 contiguous carriers at lowest channels
5	3	5/5/5	2112.5	2155.0	2197.5	QPSK modulation, 3 non-contiguous channels; one at lowest channel, one at middle channel, one at highest channel

(5 MHz channel bandwidth selected to maximize the power spectral density)

Table 8.4-5: Scenario 1 – Total channel power / EIRP

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2115.0	QPSK	5/5	38.05	18.00	56.05	6.02	61.07

Table 8.4-6: Scenario 1 – Power spectral density

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power density (dBm/MHz)	Antenna gain (dBi)	EIRP density (dBm/MHz)	MIMO Correction (dB)	EIRP density (4 ports) (dBm/MHz)	EIRP density (4 ports) (W/MHz)
2115.0	QPSK	5/5	25.93	18.00	43.93	6.02	49.95	98.86

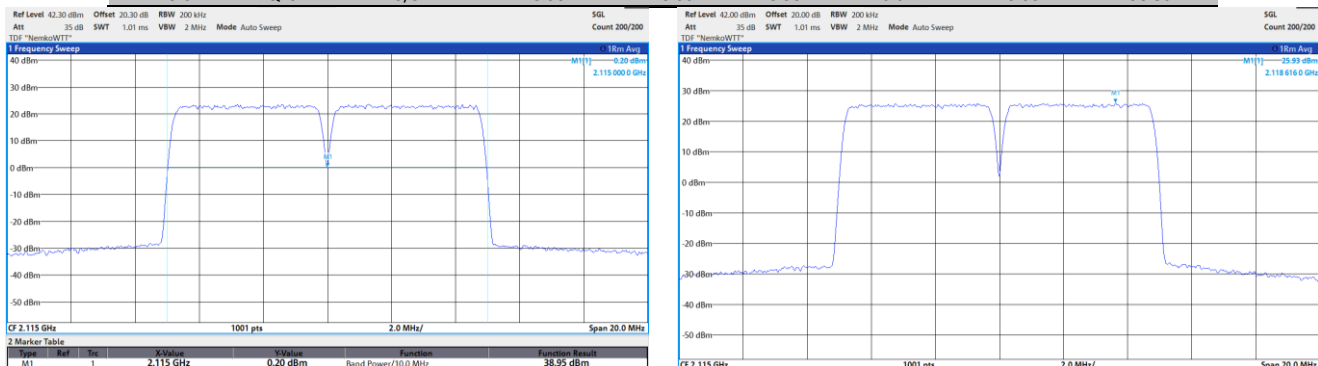


Figure 8.4-13: Scenario 1 – Total channel power / power spectral density

Table 8.4-7: Scenario 2 – Total channel power / EIRP

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2195.0	QPSK	5/5	39.43	18.00	57.43	6.02	63.45

Table 8.4-8: Scenario 2 – Power spectral density

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power density (dBm/MHz)	Antenna gain (dBi)	EIRP density (dBm/MHz)	MIMO Correction (dB)	EIRP density (4 ports) (dBm/MHz)	EIRP density (4 ports) (W/MHz)
2195.0	QPSK	5/5	23.18	18.00	41.18	6.02	47.20	52.48

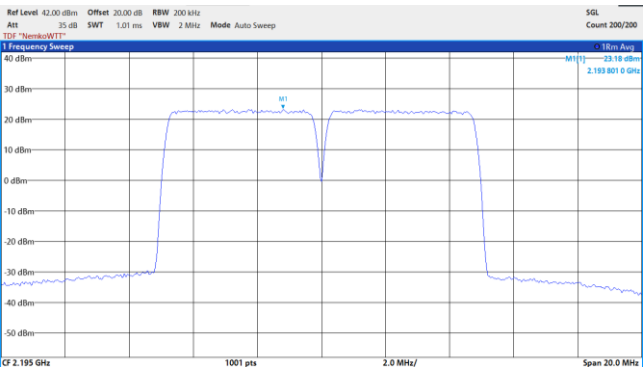
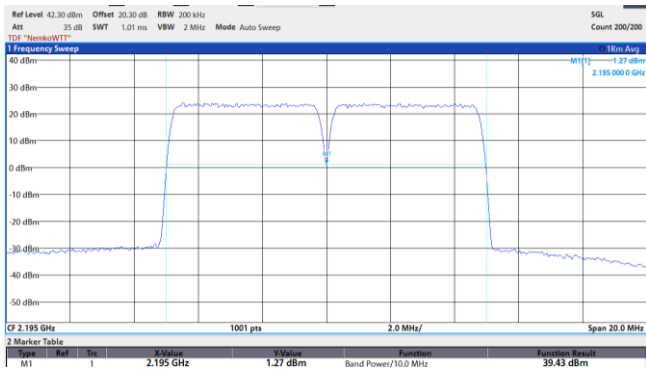


Figure 8.4-14: Scenario 2 – Total channel power / power spectral density

Table 8.4-9: Scenario 3 – Total channel power / EIRP

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2112.5	QPSK	5	35.56	18.00	53.56	6.02	59.56
2197.5	QPSK	5	36.25	18.00	54.25	6.02	60.27

Table 8.4-10: Scenario 3 – Power spectral density

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power density (dBm/MHz)	Antenna gain (dBi)	EIRP density (dBm/MHz)	MIMO Correction (dB)	EIRP density (4 ports) (dBm/MHz)	EIRP density (4 ports) (W/MHz)
2112.5	QPSK	5	25.72	18.00	43.72	6.02	49.74	94.2
2197.5	QPSK	5	25.74	18.00	43.74	6.02	49.76	94.6

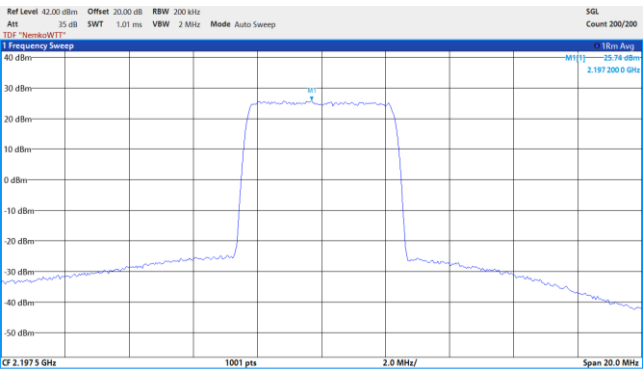
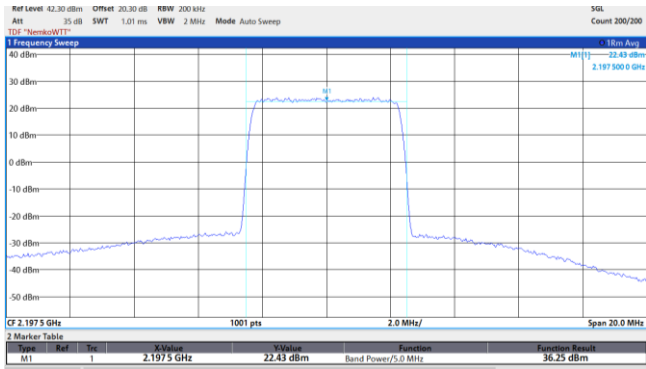
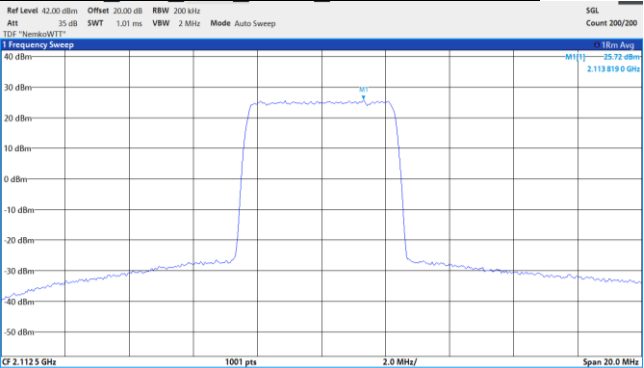
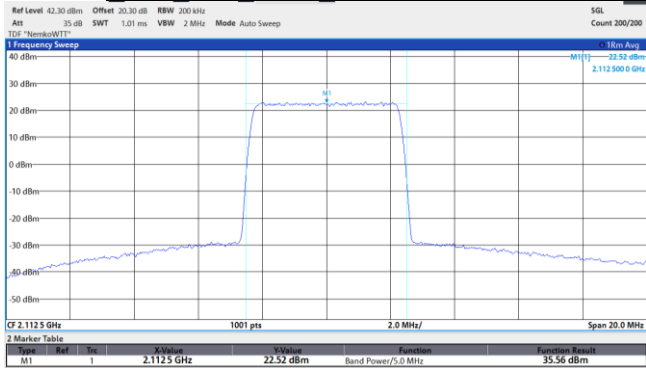


Figure 8.4-15: Scenario 3 – Total channel power / power spectral density

Table 8.4-11: Scenario 4 – Total channel power / EIRP

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2117.5	QPSK	5/5/5	39.58	18.00	57.58	6.02	63.60

Table 8.4-12: Scenario 4 – Power spectral density

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power density (dBm/MHz)	Antenna gain (dBi)	EIRP density (dBm/MHz)	MIMO Correction (dB)	EIRP density (4 ports) (dBm/MHz)	EIRP density (4 ports) (W/MHz)
2117.5	QPSK	5/5/5	22.02	18.00	40.02	6.02	46.04	40.2

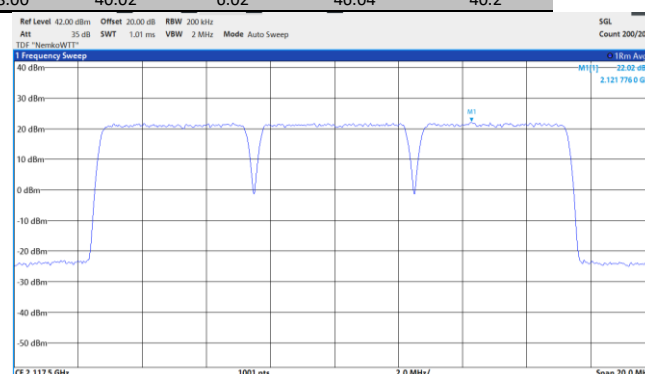
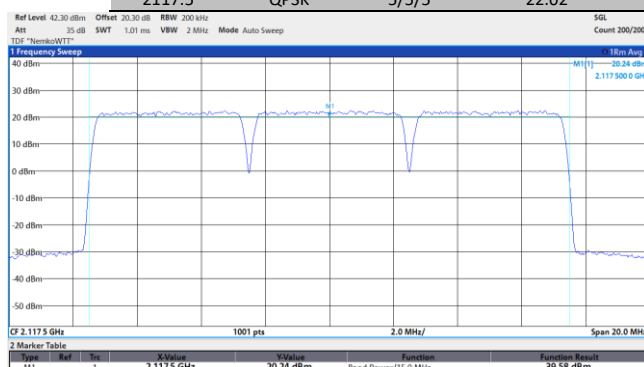


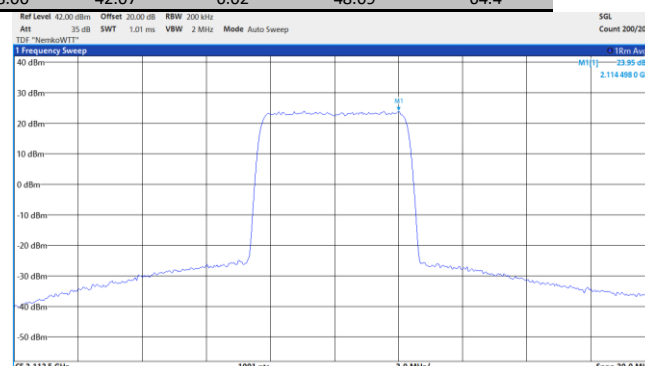
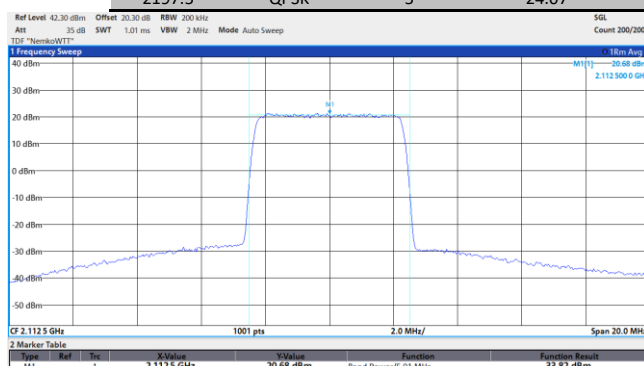
Figure 8.4-16: Scenario 4 – Total channel power / power spectral density

Table 8.4-13: Scenario 5 – Total channel power / EIRP

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2112.5	QPSK	5	33.82	18.00	51.82	6.02	57.90
2155.0	QPSK	5	34.99	18.00	52.99	6.02	59.01
2197.5	QPSK	5	34.60	18.00	52.60	6.02	58.62

Table 8.4-14: Scenario 5 – Power spectral density

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power density (dBm/MHz)	Antenna gain (dBi)	EIRP density (dBm/MHz)	MIMO Correction (dB)	EIRP density (4 ports) (dBm/MHz)	EIRP density (4 ports) (W/MHz)
2112.5	QPSK	5	23.95	18.00	43.95	6.02	49.97	99.3
2155.0	QPSK	5	24.21	18.00	42.21	6.02	48.23	66.5
2197.5	QPSK	5	24.07	18.00	42.07	6.02	48.09	64.4



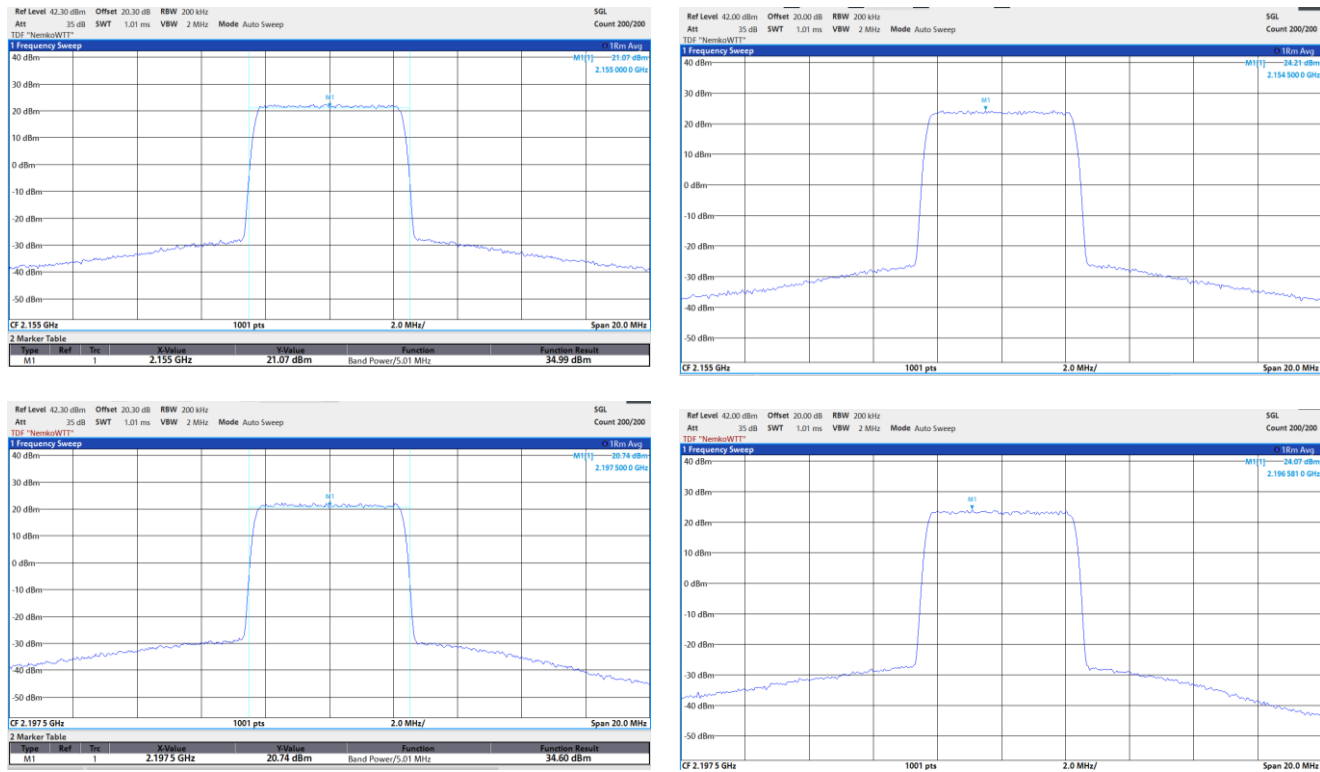


Figure 8.4-17: Scenario 5 – Total channel power / power spectral density

8.4.6 Test data – 5G NR operation

Table 8.4-15: FCC 27.50(j)(2) Output power (EIRP) results (for information only)

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2112.5	QPSK	5	43.35	18.00	61.35	6.02	67.37
2155	QPSK	5	43.85	18.00	61.85	6.02	67.87
2197.5	QPSK	5	43.40	18.00	61.40	6.02	67.42
2112.5	16QAM	5	43.35	18.00	61.35	6.02	67.37
2155	16QAM	5	43.94	18.00	61.94	6.02	67.96
2197.5	16QAM	5	43.34	18.00	61.34	6.02	67.36
2112.5	64QAM	5	43.39	18.00	61.39	6.02	67.41
2155	64QAM	5	43.80	18.00	61.8	6.02	67.82
2197.5	64QAM	5	43.46	18.00	61.46	6.02	67.48
2112.5	256QAM	5	43.38	18.00	61.38	6.02	67.40
2155	256QAM	5	43.78	18.00	61.78	6.02	67.80
2197.5	256QAM	5	43.25	18.00	61.25	6.02	67.27
2112.5	1024QAM	5	43.53	18.00	61.53	6.02	67.55
2155	1024QAM	5	43.85	18.00	61.85	6.02	67.87
2197.5	1024QAM	5	43.43	18.00	61.43	6.02	67.45
2115	QPSK	10	43.55	18.00	61.55	6.02	67.57
2155	QPSK	10	43.81	18.00	61.81	6.02	67.83
2195	QPSK	10	43.59	18.00	61.59	6.02	67.61
2115	16QAM	10	43.52	18.00	61.52	6.02	67.54
2155	16QAM	10	43.80	18.00	61.8	6.02	67.82
2195	16QAM	10	43.53	18.00	61.53	6.02	67.55
2115	64QAM	10	43.48	18.00	61.48	6.02	67.50
2155	64QAM	10	43.82	18.00	61.82	6.02	67.84
2195	64QAM	10	43.52	18.00	61.52	6.02	67.54
2115	256QAM	10	43.48	18.00	61.48	6.02	67.50

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2155	256QAM	10	43.75	18.00	61.75	6.02	67.77
2195	256QAM	10	43.45	18.00	61.45	6.02	67.47
2115	1024QAM	10	43.47	18.00	61.47	6.02	67.49
2155	1024QAM	10	43.87	18.00	61.87	6.02	67.89
2195	1024QAM	10	43.48	18.00	61.48	6.02	67.50
2117.5	QPSK	15	43.64	18.00	61.64	6.02	67.66
2155	QPSK	15	43.93	18.00	61.93	6.02	67.95
2192.5	QPSK	15	43.64	18.00	61.64	6.02	67.66
2117.5	16QAM	15	43.58	18.00	61.58	6.02	67.60
2155	16QAM	15	43.84	18.00	61.84	6.02	67.86
2192.5	16QAM	15	43.67	18.00	61.67	6.02	67.69
2117.5	64QAM	15	43.56	18.00	61.56	6.02	67.58
2155	64QAM	15	43.79	18.00	61.79	6.02	67.81
2192.5	64QAM	15	43.61	18.00	61.61	6.02	67.63
2117.5	256QAM	15	43.52	18.00	61.52	6.02	67.54
2155	256QAM	15	43.82	18.00	61.82	6.02	67.84
2192.5	256QAM	15	43.59	18.00	61.59	6.02	67.61
2117.5	1024QAM	15	43.58	18.00	61.58	6.02	67.60
2155	1024QAM	15	43.73	18.00	61.73	6.02	67.75
2192.5	1024QAM	15	43.62	18.00	61.62	6.02	67.64
2120	QPSK	20	43.68	18.00	61.68	6.02	67.70
2155	QPSK	20	43.81	18.00	61.81	6.02	67.83
2190	QPSK	20	43.68	18.00	61.68	6.02	67.70
2120	16QAM	20	43.68	18.00	61.68	6.02	67.70
2155	16QAM	20	43.84	18.00	61.84	6.02	67.86
2190	16QAM	20	43.78	18.00	61.78	6.02	67.80
2120	64QAM	20	43.70	18.00	61.70	6.02	67.72
2155	64QAM	20	43.86	18.00	61.86	6.02	67.88
2190	64QAM	20	43.73	18.00	61.73	6.02	67.75
2120	256QAM	20	43.68	18.00	61.68	6.02	67.70
2155	256QAM	20	43.68	18.00	61.68	6.02	67.70
2190	256QAM	20	43.59	18.00	61.59	6.02	67.61
2120	1024QAM	20	43.69	18.00	61.69	6.02	67.71
2155	1024QAM	20	43.75	18.00	61.75	6.02	67.77
2190	1024QAM	20	43.65	18.00	61.65	6.02	67.67
2122.5	QPSK	25	43.82	18.00	61.82	6.02	67.84
2155	QPSK	25	43.54	18.00	61.54	6.02	67.56
2187.5	QPSK	25	41.81	18.00	59.81	6.02	65.83
2122.5	16QAM	25	43.73	18.00	61.73	6.02	67.75
2155	16QAM	25	43.52	18.00	61.52	6.02	67.54
2187.5	16QAM	25	41.72	18.00	59.72	6.02	65.74
2122.5	64QAM	25	43.61	18.00	61.61	6.02	67.63
2155	64QAM	25	43.56	18.00	61.56	6.02	67.58
2187.5	64QAM	25	41.77	18.00	59.77	6.02	65.79
2122.5	256QAM	25	43.69	18.00	61.69	6.02	67.71
2155	256QAM	25	43.58	18.00	61.58	6.02	67.60
2187.5	256QAM	25	41.69	18.00	59.69	6.02	65.71
2122.5	1024QAM	25	43.68	18.00	61.68	6.02	67.70
2155	1024QAM	25	43.62	18.00	61.62	6.02	67.64
2187.5	1024QAM	25	41.75	18.00	59.75	6.02	65.77
2125	QPSK	30	43.74	18.00	61.74	6.02	67.76
2155	QPSK	30	43.36	18.00	61.36	6.02	67.38
2185	QPSK	30	41.71	18.00	59.71	6.02	65.73
2125	16QAM	30	43.70	18.00	61.70	6.02	67.72
2155	16QAM	30	43.38	18.00	61.38	6.02	67.40
2185	16QAM	30	41.81	18.00	59.81	6.02	65.83
2125	64QAM	30	43.72	18.00	61.72	6.02	67.74
2155	64QAM	30	43.39	18.00	61.39	6.02	67.41
2185	64QAM	30	41.73	18.00	59.73	6.02	65.75
2125	256QAM	30	43.67	18.00	61.67	6.02	67.69
2155	256QAM	30	43.37	18.00	61.37	6.02	67.39

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power (dBm)	Antenna gain (dBi)	EIRP (dBm)	MIMO Correction (dB)	EIRP (4 ports) (dBm)
2185	256QAM	30	41.74	18.00	59.74	6.02	65.76
2125	1024QAM	30	43.65	18.00	61.65	6.02	67.67
2155	1024QAM	30	43.45	18.00	61.45	6.02	67.47
2185	1024QAM	30	41.75	18.00	59.75	6.02	65.77
2127.5	QPSK	35	43.90	18.00	61.90	6.02	67.92
2155	QPSK	35	43.46	18.00	61.46	6.02	67.48
2182.5	QPSK	35	41.92	18.00	59.92	6.02	65.94
2127.5	16QAM	35	43.93	18.00	61.93	6.02	67.95
2155	16QAM	35	43.50	18.00	61.50	6.02	67.52
2182.5	16QAM	35	41.89	18.00	59.89	6.02	65.91
2127.5	64QAM	35	43.93	18.00	61.93	6.02	67.95
2155	64QAM	35	43.49	18.00	61.49	6.02	67.51
2182.5	64QAM	35	41.86	18.00	59.86	6.02	65.88
2127.5	256QAM	35	43.83	18.00	61.83	6.02	67.85
2155	256QAM	35	43.37	18.00	61.37	6.02	67.39
2182.5	256QAM	35	41.82	18.00	59.82	6.02	65.84
2127.5	1024QAM	35	43.84	18.00	61.84	6.02	67.86
2155	1024QAM	35	43.49	18.00	61.49	6.02	67.51
2182.5	1024QAM	35	41.94	18.00	59.94	6.02	65.96
2130	QPSK	40	43.75	18.00	61.75	6.02	67.77
2155	QPSK	40	43.40	18.00	61.40	6.02	67.42
2180	QPSK	40	41.68	18.00	59.68	6.02	65.70
2130	16QAM	40	43.79	18.00	61.79	6.02	67.81
2155	16QAM	40	43.48	18.00	61.48	6.02	67.50
2180	16QAM	40	42.03	18.00	60.03	6.02	66.05
2130	64QAM	40	43.81	18.00	61.81	6.02	67.83
2155	64QAM	40	43.28	18.00	61.28	6.02	67.30
2180	64QAM	40	41.99	18.00	59.99	6.02	66.01
2130	256QAM	40	43.75	18.00	61.75	6.02	67.77
2155	256QAM	40	43.27	18.00	61.27	6.02	67.29
2180	256QAM	40	41.99	18.00	59.99	6.02	66.01
2130	1024QAM	40	43.77	18.00	61.77	6.02	67.79
2155	1024QAM	40	43.32	18.00	61.32	6.02	67.34
2180	1024QAM	40	41.94	18.00	59.94	6.02	65.96
2132.5	QPSK	45	43.75	18.00	61.75	6.02	67.77
2155	QPSK	45	43.42	18.00	61.42	6.02	67.44
2177.5	QPSK	45	42.11	18.00	60.11	6.02	66.13
2132.5	16QAM	45	43.69	18.00	61.69	6.02	67.71
2155	16QAM	45	43.41	18.00	61.41	6.02	67.43
2177.5	16QAM	45	42.24	18.00	60.24	6.02	66.26
2132.5	64QAM	45	43.78	18.00	61.78	6.02	67.80
2155	64QAM	45	43.36	18.00	61.36	6.02	67.38
2177.5	64QAM	45	42.17	18.00	60.17	6.02	66.19
2132.5	256QAM	45	43.65	18.00	61.65	6.02	67.67
2155	256QAM	45	43.37	18.00	61.37	6.02	67.39
2177.5	256QAM	45	42.23	18.00	60.23	6.02	66.25
2132.5	1024QAM	45	43.73	18.00	61.73	6.02	67.75
2155	1024QAM	45	43.41	18.00	61.41	6.02	67.43
2177.5	1024QAM	45	42.12	18.00	60.12	6.02	66.14

Table 8.4-16: FCC 27.50(j)(2) Output power density results

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power density (dBm/MHz)	Antenna gain (dBi)	EIRP density (dBm/MHz)	MIMO Correction (dB)	EIRP density (4 ports) (dBm/MHz)	EIRP density (4 ports) (W/MHz)
2112.5	QPSK	5	37.18	18.00	55.18	6.02	61.20	1318.44
2155	QPSK	5	37.69	18.00	55.69	6.02	61.71	1482.72
2197.5	QPSK	5	35.30	18.00	53.30	6.02	59.32	855.18
2112.5	16QAM	5	37.42	18.00	55.42	6.02	61.44	1393.35
2155	16QAM	5	37.90	18.00	55.90	6.02	61.92	1556.18
2197.5	16QAM	5	35.52	18.00	53.52	6.02	59.54	899.62

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power density (dBm/MHz)	Antenna gain (dBi)	EIRP density (dBm/MHz)	MIMO Correction (dB)	EIRP density (4 ports) (dBm/MHz)	EIRP density (4 ports) (W/MHz)
2112.5	64QAM	5	37.29	18.00	55.29	6.02	61.31	1352.26
2155	64QAM	5	37.67	18.00	55.67	6.02	61.69	1475.91
2197.5	64QAM	5	35.44	18.00	53.44	6.02	59.46	883.20
2112.5	256QAM	5	37.10	18.00	55.10	6.02	61.12	1294.37
2155	256QAM	5	37.45	18.00	55.45	6.02	61.47	1403.01
2197.5	256QAM	5	35.16	18.00	53.16	6.02	59.18	828.06
2112.5	1024QAM	5	37.34	18.00	55.34	6.02	61.36	1367.92
2155	1024QAM	5	37.61	18.00	55.61	6.02	61.63	1455.66
2197.5	1024QAM	5	35.43	18.00	53.43	6.02	59.45	881.17
2115	QPSK	10	34.22	18.00	52.22	6.02	58.24	666.90
2155	QPSK	10	34.49	18.00	52.49	6.02	58.51	709.68
2195	QPSK	10	32.39	18.00	50.39	6.02	56.41	437.58
2115	16QAM	10	34.89	18.00	52.89	6.02	58.91	778.14
2155	16QAM	10	35.28	18.00	53.28	6.02	59.30	851.26
2195	16QAM	10	33.13	18.00	51.13	6.02	57.15	518.87
2115	64QAM	10	34.29	18.00	52.29	6.02	58.31	677.74
2155	64QAM	10	34.52	18.00	52.52	6.02	58.54	714.60
2195	64QAM	10	32.41	18.00	50.41	6.02	56.43	439.60
2115	256QAM	10	34.16	18.00	52.16	6.02	58.18	657.75
2155	256QAM	10	34.40	18.00	52.40	6.02	58.42	695.12
2195	256QAM	10	32.28	18.00	50.28	6.02	56.30	426.64
2115	1024QAM	10	34.15	18.00	52.15	6.02	58.17	656.24
2155	1024QAM	10	34.49	18.00	52.49	6.02	58.51	709.68
2195	1024QAM	10	32.39	18.00	50.39	6.02	56.41	437.58
2117.5	QPSK	15	32.58	18.00	50.58	6.02	56.60	457.15
2155	QPSK	15	32.73	18.00	50.73	6.02	56.75	473.22
2192.5	QPSK	15	30.74	18.00	48.74	6.02	54.76	299.27
2117.5	16QAM	15	34.05	18.00	52.05	6.02	58.07	641.30
2155	16QAM	15	34.22	18.00	52.22	6.02	58.24	666.90
2192.5	16QAM	15	32.31	18.00	50.31	6.02	56.33	429.60
2117.5	64QAM	15	32.54	18.00	50.54	6.02	56.56	452.96
2155	64QAM	15	32.83	18.00	50.83	6.02	56.85	484.24
2192.5	64QAM	15	30.75	18.00	48.75	6.02	54.77	299.96
2117.5	256QAM	15	32.61	18.00	50.61	6.02	56.63	460.32
2155	256QAM	15	32.78	18.00	50.78	6.02	56.80	478.70
2192.5	256QAM	15	30.69	18.00	48.69	6.02	54.71	295.84
2117.5	1024QAM	15	32.59	18.00	50.59	6.02	56.61	458.21
2155	1024QAM	15	32.75	18.00	50.75	6.02	56.77	475.40
2192.5	1024QAM	15	30.68	18.00	48.68	6.02	54.70	295.16
2120	QPSK	20	31.32	18.00	49.32	6.02	55.34	342.03
2155	QPSK	20	31.54	18.00	49.54	6.02	55.56	359.80
2190	QPSK	20	29.47	18.00	47.47	6.02	53.49	223.39
2120	16QAM	20	32.96	18.00	50.96	6.02	56.98	498.95
2155	16QAM	20	33.03	18.00	51.03	6.02	57.05	507.06
2190	16QAM	20	31.12	18.00	49.12	6.02	55.14	326.63
2120	64QAM	20	31.57	18.00	49.57	6.02	55.59	362.29
2155	64QAM	20	31.57	18.00	49.57	6.02	55.59	362.29
2190	64QAM	20	29.62	18.00	47.62	6.02	53.64	231.24
2120	256QAM	20	31.36	18.00	49.36	6.02	55.38	345.19
2155	256QAM	20	31.56	18.00	49.56	6.02	55.58	361.46
2190	256QAM	20	29.53	18.00	47.53	6.02	53.55	226.50
2120	1024QAM	20	31.32	18.00	49.32	6.02	55.34	342.03
2155	1024QAM	20	31.42	18.00	49.42	6.02	55.44	349.99
2190	1024QAM	20	29.53	18.00	47.53	6.02	53.55	226.50
2122.5	QPSK	25	30.43	18.00	48.43	6.02	54.45	278.65
2155	QPSK	25	30.50	18.00	48.50	6.02	54.52	283.18
2187.5	QPSK	25	28.62	18.00	46.62	6.02	52.64	183.68
2122.5	16QAM	25	31.79	18.00	49.79	6.02	55.81	381.12
2155	16QAM	25	31.80	18.00	49.80	6.02	55.82	382.00
2187.5	16QAM	25	29.95	18.00	47.95	6.02	53.97	249.49

Frequency (MHz)	Modulation	Channel Bandwidth (MHz)	Conducted power density (dBm/MHz)	Antenna gain (dBi)	EIRP density (dBm/MHz)	MIMO Correction (dB)	EIRP density (4 ports) (dBm/MHz)	EIRP density (4 ports) (W/MHz)
2122.5	64QAM	25	30.42	18.00	48.42	6.02	54.44	278.01
2155	64QAM	25	30.57	18.00	48.57	6.02	54.59	287.78
2187.5	64QAM	25	28.62	18.00	46.62	6.02	52.64	183.68
2122.5	256QAM	25	30.47	18.00	48.47	6.02	54.49	281.23
2155	256QAM	25	30.54	18.00	48.54	6.02	54.56	285.80
2187.5	256QAM	25	28.51	18.00	46.51	6.02	52.53	179.09
2122.5	1024QAM	25	30.44	18.00	48.44	6.02	54.46	279.29
2155	1024QAM	25	30.59	18.00	48.59	6.02	54.61	289.11
2187.5	1024QAM	25	28.55	18.00	46.55	6.02	52.57	180.74
2125	QPSK	30	29.62	18.00	47.62	6.02	53.64	231.24
2155	QPSK	30	29.79	18.00	47.79	6.02	53.81	240.47
2185	QPSK	30	27.9	18.00	45.9	6.02	51.92	155.62
2125	16QAM	30	31.37	18.00	49.37	6.02	55.39	345.99
2155	16QAM	30	31.40	18.00	49.40	6.02	55.42	348.39
2185	16QAM	30	29.50	18.00	47.50	6.02	53.52	224.94
2125	64QAM	30	29.59	18.00	47.59	6.02	53.61	229.65
2155	64QAM	30	29.67	18.00	47.67	6.02	53.69	233.92
2185	64QAM	30	27.75	18.00	45.75	6.02	51.77	150.33
2125	256QAM	30	29.73	18.00	47.73	6.02	53.75	237.17
2155	256QAM	30	29.60	18.00	47.60	6.02	53.62	230.18
2185	256QAM	30	27.86	18.00	45.86	6.02	51.88	154.19
2125	1024QAM	30	29.65	18.00	47.65	6.02	53.67	232.84
2155	1024QAM	30	29.77	18.00	47.77	6.02	53.79	239.36
2185	1024QAM	30	27.82	18.00	45.82	6.02	51.84	152.78
2127.5	QPSK	35	29.27	18.00	47.27	6.02	53.29	213.33
2155	QPSK	35	29.13	18.00	47.13	6.02	53.15	206.57
2182.5	QPSK	35	27.23	18.00	45.23	6.02	51.25	133.37
2127.5	16QAM	35	30.83	18.00	48.83	6.02	54.85	305.53
2155	16QAM	35	30.95	18.00	48.95	6.02	54.97	314.09
2182.5	16QAM	35	29.07	18.00	47.07	6.02	53.09	203.73
2127.5	64QAM	35	29.19	18.00	47.19	6.02	53.21	209.44
2155	64QAM	35	29.14	18.00	47.14	6.02	53.16	207.04
2182.5	64QAM	35	27.18	18.00	45.18	6.02	51.20	131.84
2127.5	256QAM	35	29.21	18.00	47.21	6.02	53.23	210.41
2155	256QAM	35	29.23	18.00	47.23	6.02	53.25	211.38
2182.5	256QAM	35	27.21	18.00	45.21	6.02	51.23	132.76
2127.5	1024QAM	35	29.22	18.00	47.22	6.02	53.24	210.89
2155	1024QAM	35	29.21	18.00	47.21	6.02	53.23	210.41
2182.5	1024QAM	35	27.32	18.00	45.32	6.02	51.34	136.16
2130	QPSK	40	28.49	18.00	46.49	6.02	52.51	178.26
2155	QPSK	40	28.53	18.00	46.53	6.02	52.55	179.91
2180	QPSK	40	28.28	18.00	46.28	6.02	52.30	169.85
2130	16QAM	40	30.26	18.00	48.26	6.02	54.28	267.95
2155	16QAM	40	30.35	18.00	48.35	6.02	54.37	273.56
2180	16QAM	40	30.22	18.00	48.22	6.02	54.24	265.50
2130	64QAM	40	28.51	18.00	46.51	6.02	52.53	179.09
2155	64QAM	40	28.59	18.00	46.59	6.02	52.61	182.41
2180	64QAM	40	28.22	18.00	46.22	6.02	52.24	167.52
2130	256QAM	40	28.53	18.00	46.53	6.02	52.55	179.91
2155	256QAM	40	28.44	18.00	46.44	6.02	52.46	176.22
2180	256QAM	40	28.13	18.00	46.13	6.02	52.15	164.08
2130	1024QAM	40	28.45	18.00	46.45	6.02	52.47	176.63
2155	1024QAM	40	28.46	18.00	46.46	6.02	52.48	177.04
2180	1024QAM	40	28.03	18.00	46.03	6.02	52.05	160.35
2132.5	QPSK	45	28.05	18.00	46.05	6.02	52.07	161.09
2155	QPSK	45	28.1	18.00	46.1	6.02	52.12	162.95
2177.5	QPSK	45	27.99	18.00	45.99	6.02	52.01	158.88
2132.5	16QAM	45	29.79	18.00	47.79	6.02	53.81	240.47
2155	16QAM	45	29.86	18.00	47.86	6.02	53.88	244.38
2177.5	16QAM	45	29.78	18.00	47.78	6.02	53.80	239.92