

Test report

467685-1R2TRFWL

Date of issue: August 29, 2022

Applicant:

Fujitsu Network Communications, Inc.

Product:

Gen2 Dual Band RU for North America

Model:

G2_N70N66-RU

Model variant:

None

Specifications:

◆ **FCC 47 CFR Part 27**

Miscellaneous Wireless Communications Services

Lab and test locations

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Tested by	Lan Sayasane, EMC Test Engineer
Reviewed by	James Cunningham, EMC/MIL/WL Supervisor
Review date	August 29, 2022
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.

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Section 1. Report summary

1.1 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

1.2 Test specifications

FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services
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1.3 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was performed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See “Summary of test results” for full details.

1.4 Exclusions

None

1.5 Test report revision history

Revision #	Details of changes made to test report
467685-1TRFWL	Original report issued
467685-1R1TRFWL	Updated following TCB comments

Section 2. Summary of test results

2.1 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

Receipt date	July 15, 2022
Nemko sample ID number	NEx: 467685

3.2 EUT information

Product name	Gen2 Dual Band RU for North America
Model	G2_N70N66-RU
Part Number	TA08029-B213/01
Serial number	10003

3.3 Technical information

Frequency band	2110 – 2200 MHz (Band n66) 1995 – 2020 MHz (Band n70)
RF power Max (W), Conducted	Band n66: 45.86 dBm / 38.55 W (or 51.88 dBm / 154.17 Watts - Total power across all ports) Band n70: 44.30 dBm / 26.92 W (or 50.32 dBm / 107.65 Watts – Total power across all ports)
Supported bandwidths:	5, 10, 15, 20 MHz (Band n66) 5, 10, 20, 25 MHz (Band n70)
Type of modulation	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
Power requirements	DC 48 VDC
Antenna information	The EUT is professionally installed.

3.4 Product description and theory of operation

The radio unit (RU) is one of the components to configure the 5G RAN mobile communication system. The RU has two band frequencies: band n66 and band n70. Four antenna ports are shared across the frequency bands.

3.5 EUT exercise details

A laptop computer was used to send test commands to EUT to force it to transmit the appropriate signal. Unit transmit the selected signal at full power. The unit was tested using a conducted port. The antenna installation shall be done by professionals, and they are not within the scope of the tests evaluated on this document.

3.6 EUT setup diagram

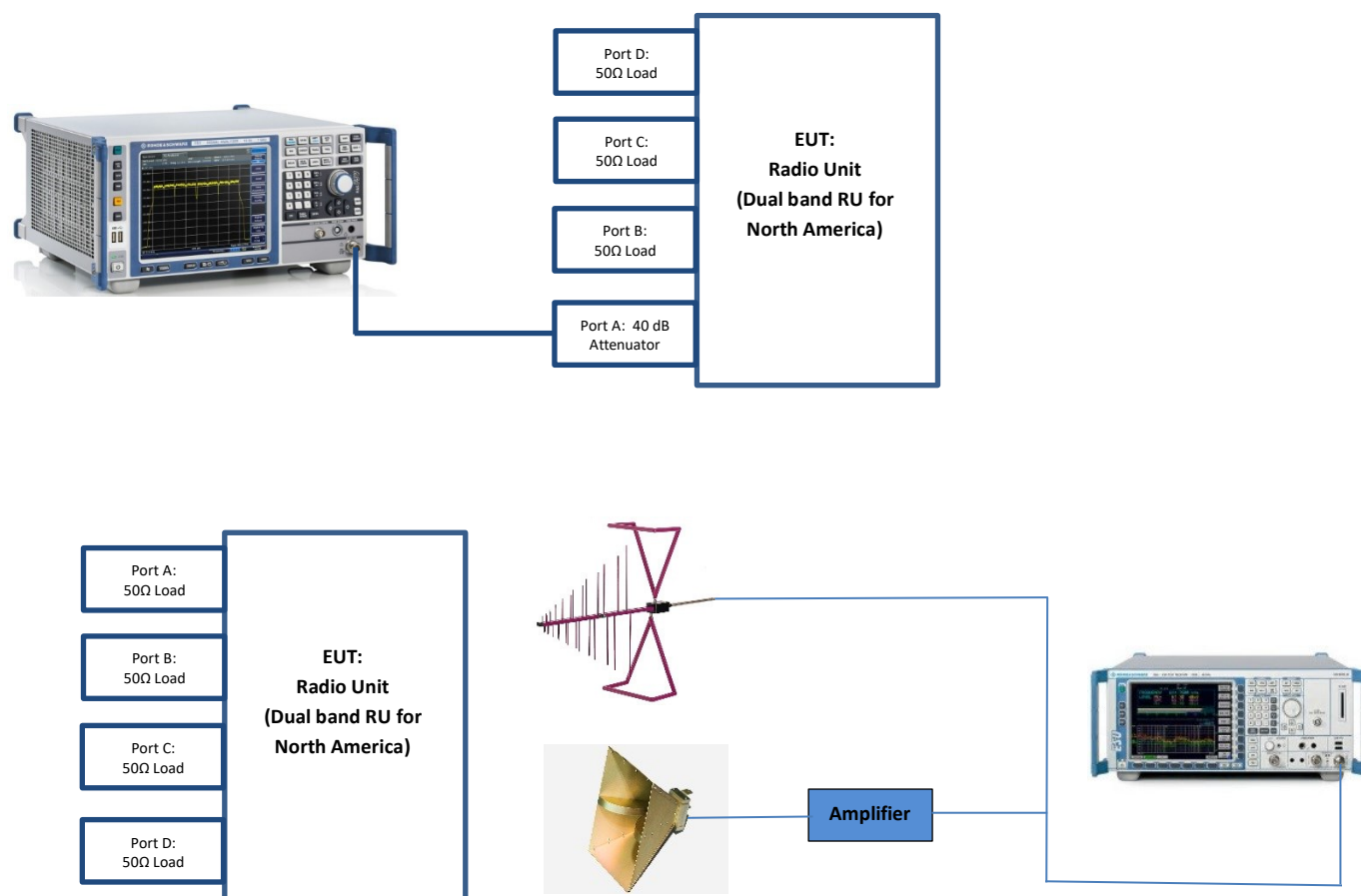


Figure 3.6-1: Setup diagram

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

None

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 $\pm 5\%$, 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: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
EMC Test Receiver	Rohde & Schwarz	ESU 40	E1121	1 year	31-May-2023
System Controller	Sunol Sciences	SC104V	E1191	NCR	NCR
Antenna, Bilog	Schaffner-Chase	CBL 6111D	1763	2 years	01-Apr-2024
Antenna, DRG Horn	ETS-Lindgren	3117-PA	E1139	2 years	19-Apr-2023
Signal Generator	Rohde & Schwarz	SMB100A	E1128	1 year	23-Dec-2022
Signal & Spectrum Analyzer	Rohde & Schwarz	FSW43	E1302	1 year	08-Nov-2022
Band Reject Filter	Micro-Tonics	BRM50702-02	E1141	NCR	NCR
Environmental Chamber	Cincinnati Sub-Zero	ZPH-32-2-2-H/AC	S1179	1 year	18-Aug-2022
Wireless pressure, humidity, and temperature data logger	OMEGA	RF2000A	S1170	1 year	30-Sep-2022

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

Test date	July 15, 2022	Temperature	22 °C
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1001 mbar
Verdict	Pass	Relative humidity	62 %

8.1.3 Observations, settings and special notes

None

8.1.4 Test data

Band n66:

Bandwidth (MHz)	Emission type
5	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
10	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
15	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
20	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM

Band n70:

Bandwidth (MHz)	Emission type
5	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
10	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
20	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM
25	QPSK; 16QAM; 64QAM; 256QAM; 1024QAM

Table 8.1-1: Types of emission

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 networks, 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

Test date	July 15, 2022	Temperature	22 °C
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1001 mbar
Verdict	Pass	Relative humidity	62%

8.2.3 Observations, settings and special notes

Selection of Port D (Band n66) and Port C (Band n70) was according to section 8.2.4 of this document.

Test method: ANSI C63.26 Section 5.4.4

Spectrum analyzer settings:

Resolution bandwidth	1% - 5% OBW
Video bandwidth	3*RBW
Frequency span	2*OBW
Detector mode	Peak
Trace mode	Max Hold

8.2.4 Test data

Band n66:

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	5 MHz	D	2112.5	4.489
n66	5 MHz	D	2155	4.480
n66	5 MHz	D	2197.5	4.499

Table 8.2-1: 99% Occupied bandwidth, QPSK Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	5 MHz	D	2112.5	4.504
n66	5 MHz	D	2155	4.501
n66	5 MHz	D	2197.5	4.514

Table 8.2-2: 99% Occupied bandwidth, 16QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	5 MHz	D	2112.5	4.497
n66	5 MHz	D	2155	4.517
n66	5 MHz	D	2197.5	4.493

Table 8.2-3: 99% Occupied bandwidth, 64QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	5 MHz	D	2112.5	4.487
n66	5 MHz	D	2155	4.498
n66	5 MHz	D	2197.5	4.507

Table 8.2-4: 99% Occupied bandwidth, 256QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	5 MHz	D	2112.5	4.486
n66	5 MHz	D	2155	4.491
n66	5 MHz	D	2197.5	4.493

Table 8.2-5: 99% Occupied bandwidth, 1024QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	10 MHz	D	2115	9.34
n66	10 MHz	D	2155	9.345
n66	10 MHz	D	2195	9.33

Table 8.2-6: 99% Occupied bandwidth, QPSK Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	10 MHz	D	2115	9.264
n66	10 MHz	D	2155	9.258
n66	10 MHz	D	2195	9.266

Table 8.2-7: 99% Occupied bandwidth, 16QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	10 MHz	D	2115	9.312
n66	10 MHz	D	2155	9.314
n66	10 MHz	D	2195	9.314

Table 8.2-8: 99% Occupied bandwidth, 64QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	10 MHz	D	2115	9.351
n66	10 MHz	D	2155	9.344
n66	10 MHz	D	2195	9.323

Table 8.2-9: 99% Occupied bandwidth, 256QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	10 MHz	D	2115	9.312
n66	10 MHz	D	2155	9.332
n66	10 MHz	D	2195	9.315

Table 8.2-10: 99% Occupied bandwidth, 1024QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	15 MHz	D	2117.5	14.127
n66	15 MHz	D	2155	14.111
n66	15 MHz	D	2192.5	14.122

Table 8.2-11: 99% Occupied bandwidth, QPSK Modulation, 15 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	15 MHz	D	2117.5	14.179
n66	15 MHz	D	2155	14.173
n66	15 MHz	D	2192.5	14.154

Table 8.2-12: 99% Occupied bandwidth, 16QAM Modulation, 15 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	15 MHz	D	2117.5	14.129
n66	15 MHz	D	2155	14.128
n66	15 MHz	D	2192.5	14.116

Table 8.2-13: 99% Occupied bandwidth, 64QAM Modulation, 15MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	15 MHz	D	2117.5	14.121
n66	15 MHz	D	2155	14.105
n66	15 MHz	D	2192.5	14.123

Table 8.2-14: 99% Occupied bandwidth, 256QAM Modulation, 15 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	15 MHz	D	2117.5	14.139
n66	15 MHz	D	2155	14.116
n66	15 MHz	D	2192.5	14.102

Table 8.2-15: 99% Occupied bandwidth, 1024QAM Modulation, 15MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	20 MHz	D	2120	18.96
n66	20 MHz	D	2155	18.945
n66	20 MHz	D	2190	18.908

Table 8.2-16: 99% Occupied bandwidth, QPSK Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	20 MHz	D	2120	19.051
n66	20 MHz	D	2155	19.008
n66	20 MHz	D	2190	19.024

Table 8.2-17: 99% Occupied bandwidth, 16QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	20 MHz	D	2120	18.927
n66	20 MHz	D	2155	18.949
n66	20 MHz	D	2190	18.966

Table 8.2-18: 99% Occupied bandwidth, 64QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	20 MHz	D	2120	18.964
n66	20 MHz	D	2155	18.974
n66	20 MHz	D	2190	18.965

Table 8.2-19: 99% Occupied bandwidth, 256QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n66	20 MHz	D	2120	18.914
n66	20 MHz	D	2155	19.01
n66	20 MHz	D	2190	18.933

Table 8.2-20: 99% Occupied bandwidth, 1024QAM Modulation, 20 MHz

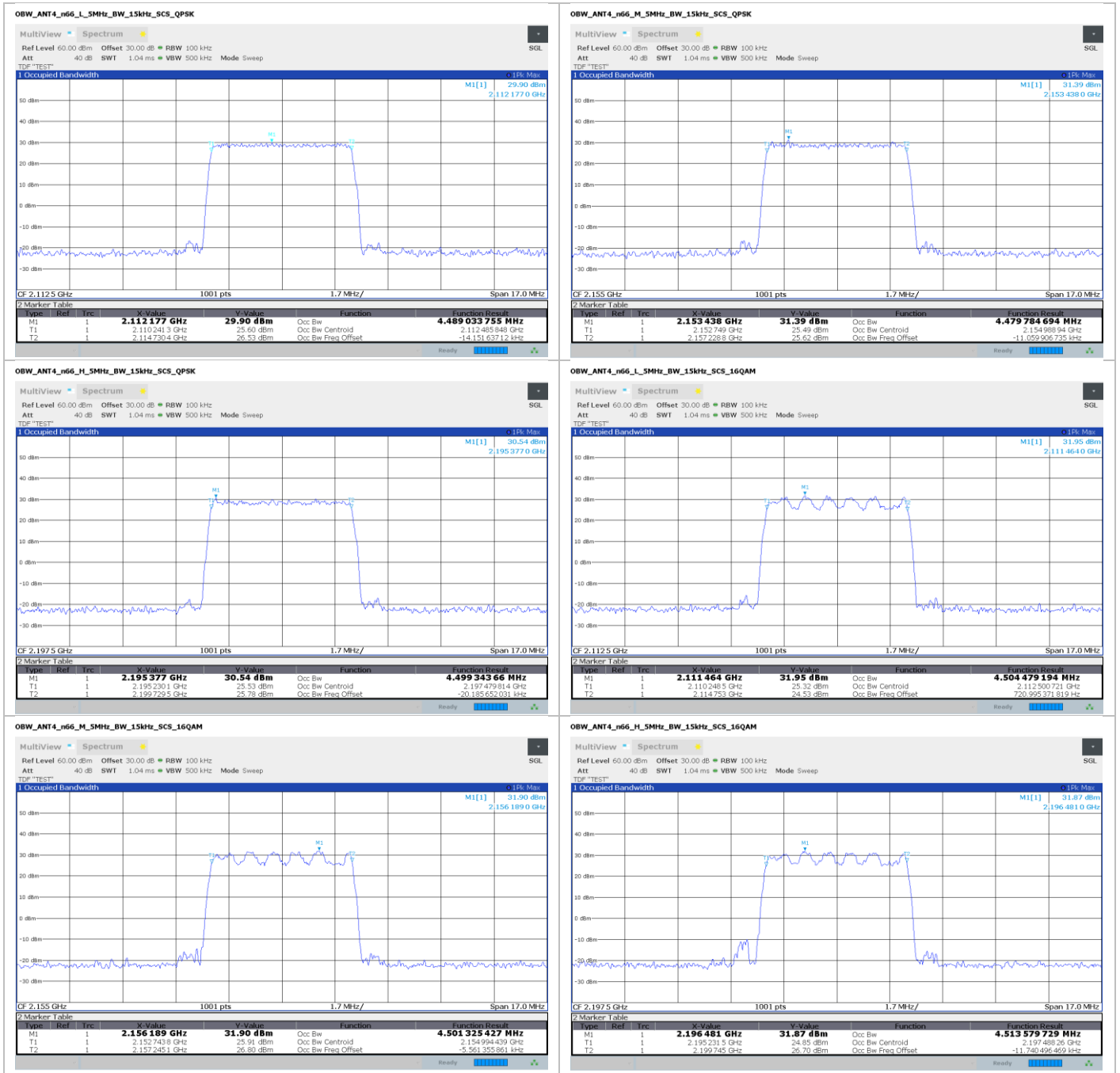
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FCC §2.1049(h) 99% Occupied Bandwidth
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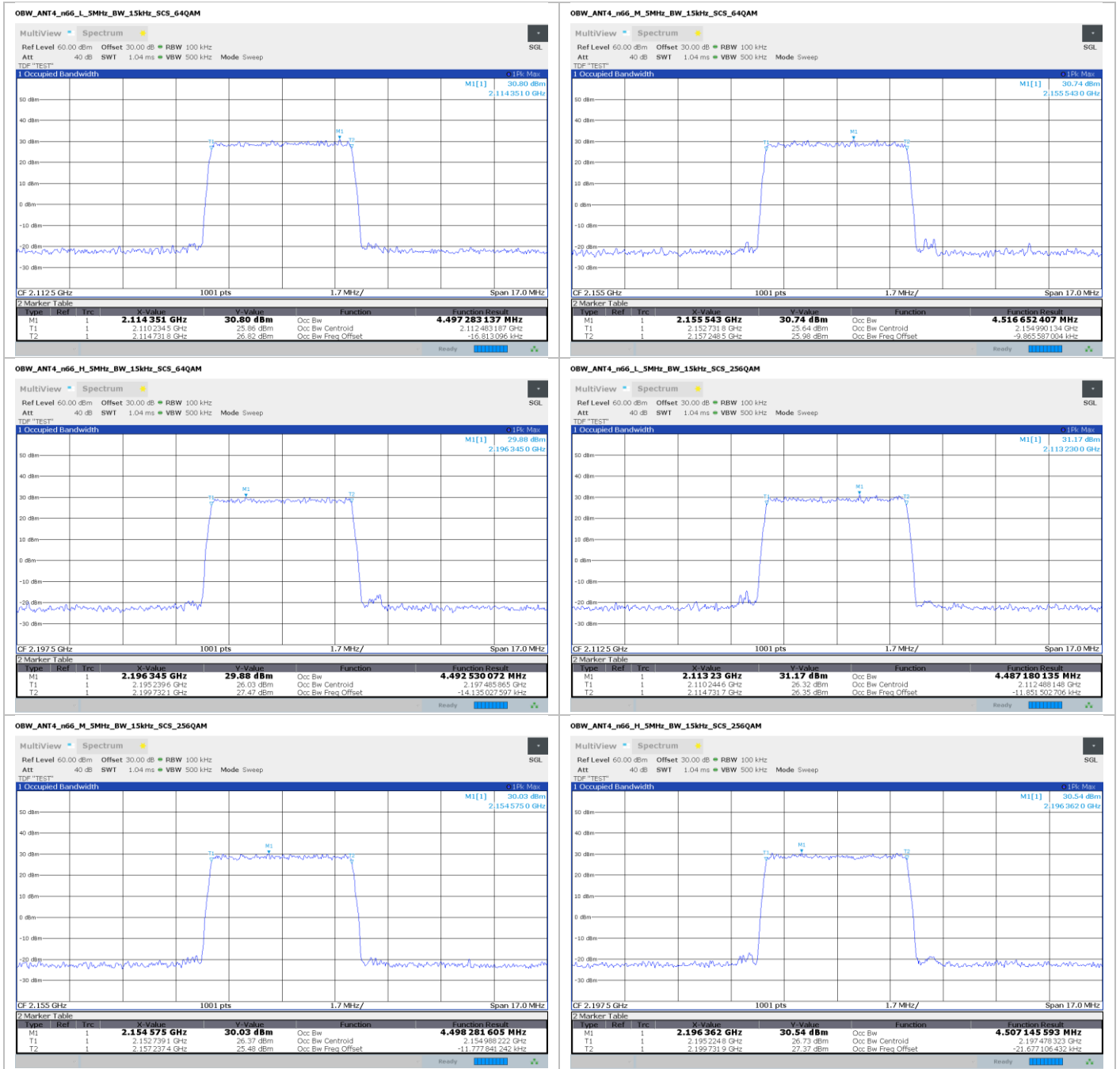
Band n66

5 MHz



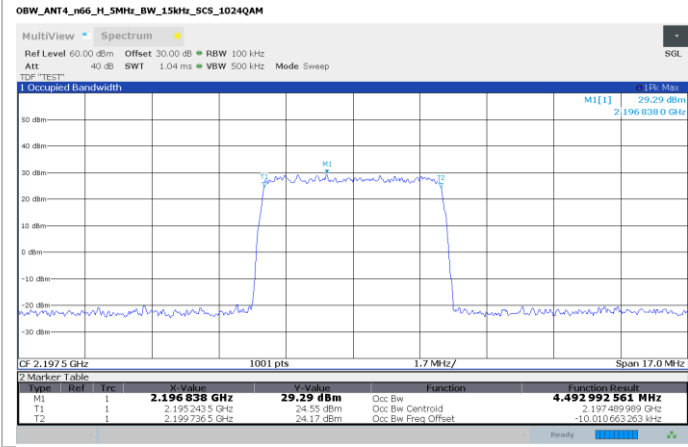
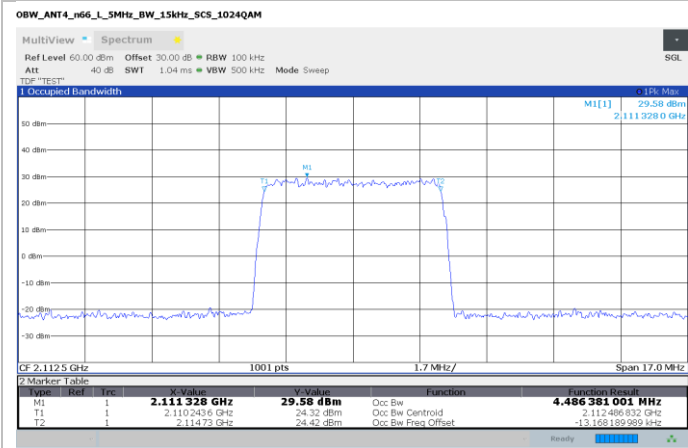
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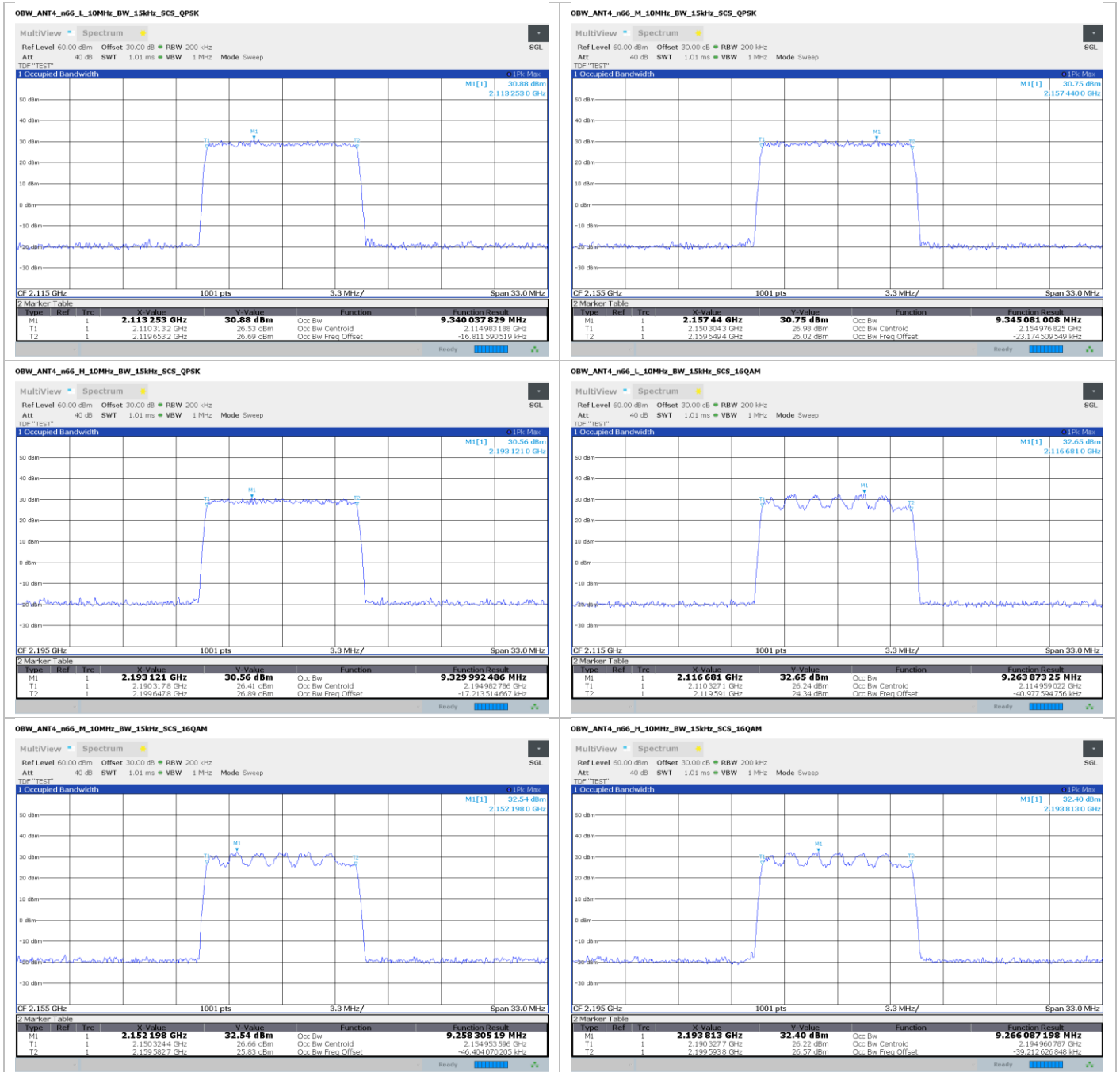
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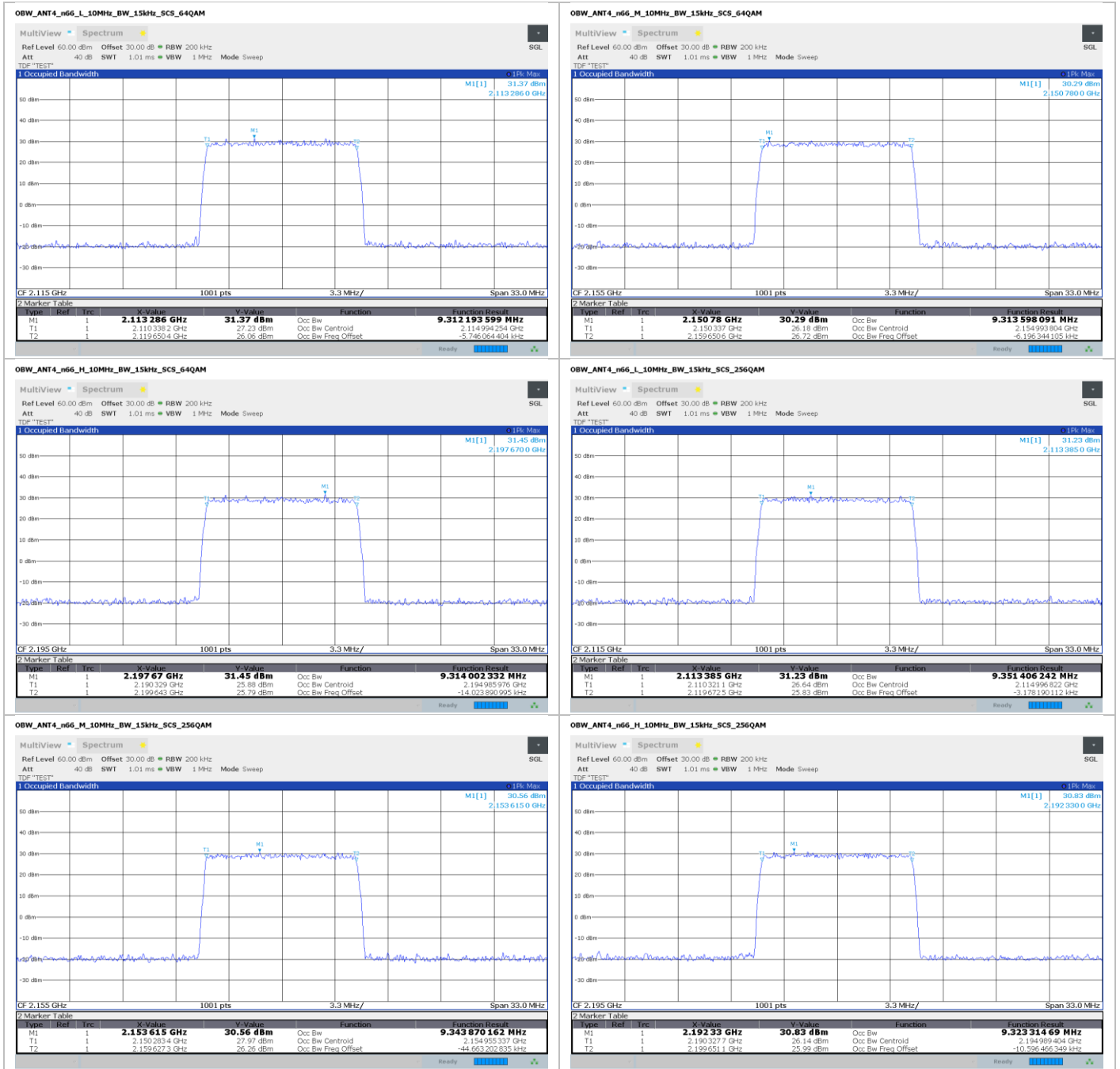
Band n66

10 MHz



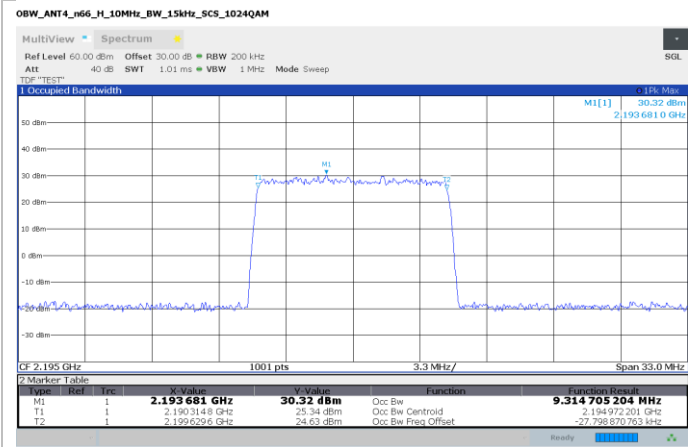
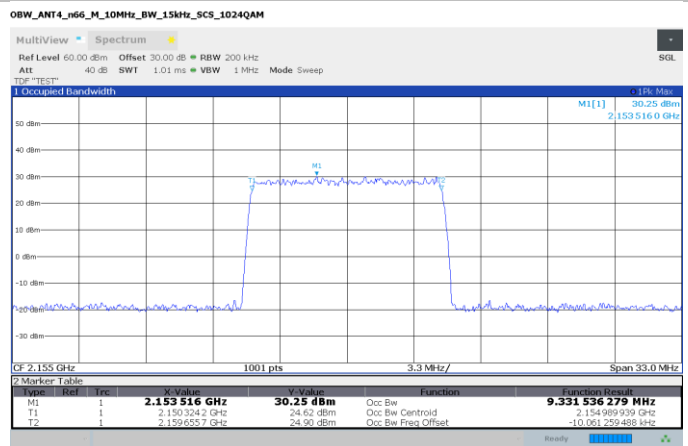
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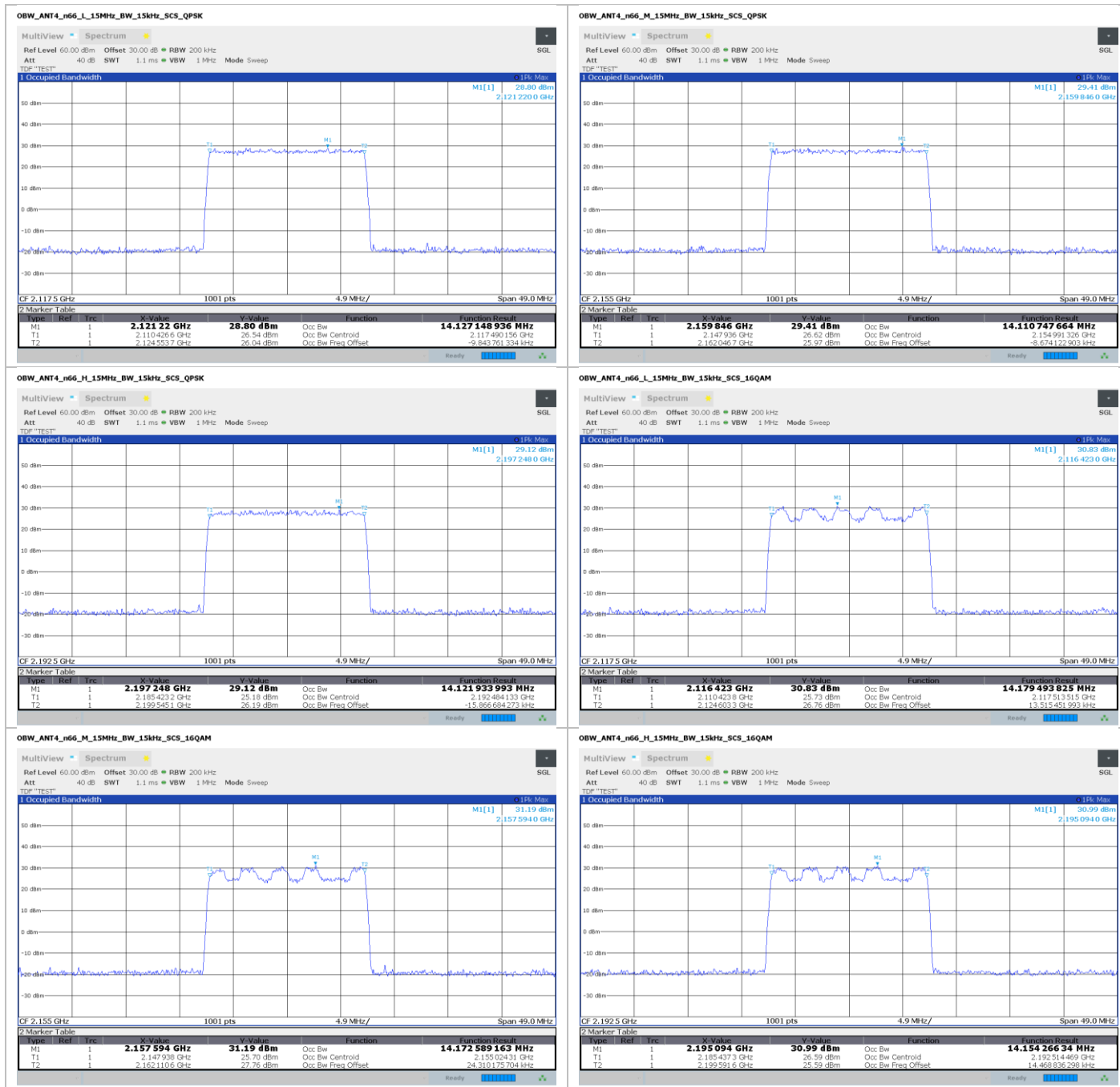
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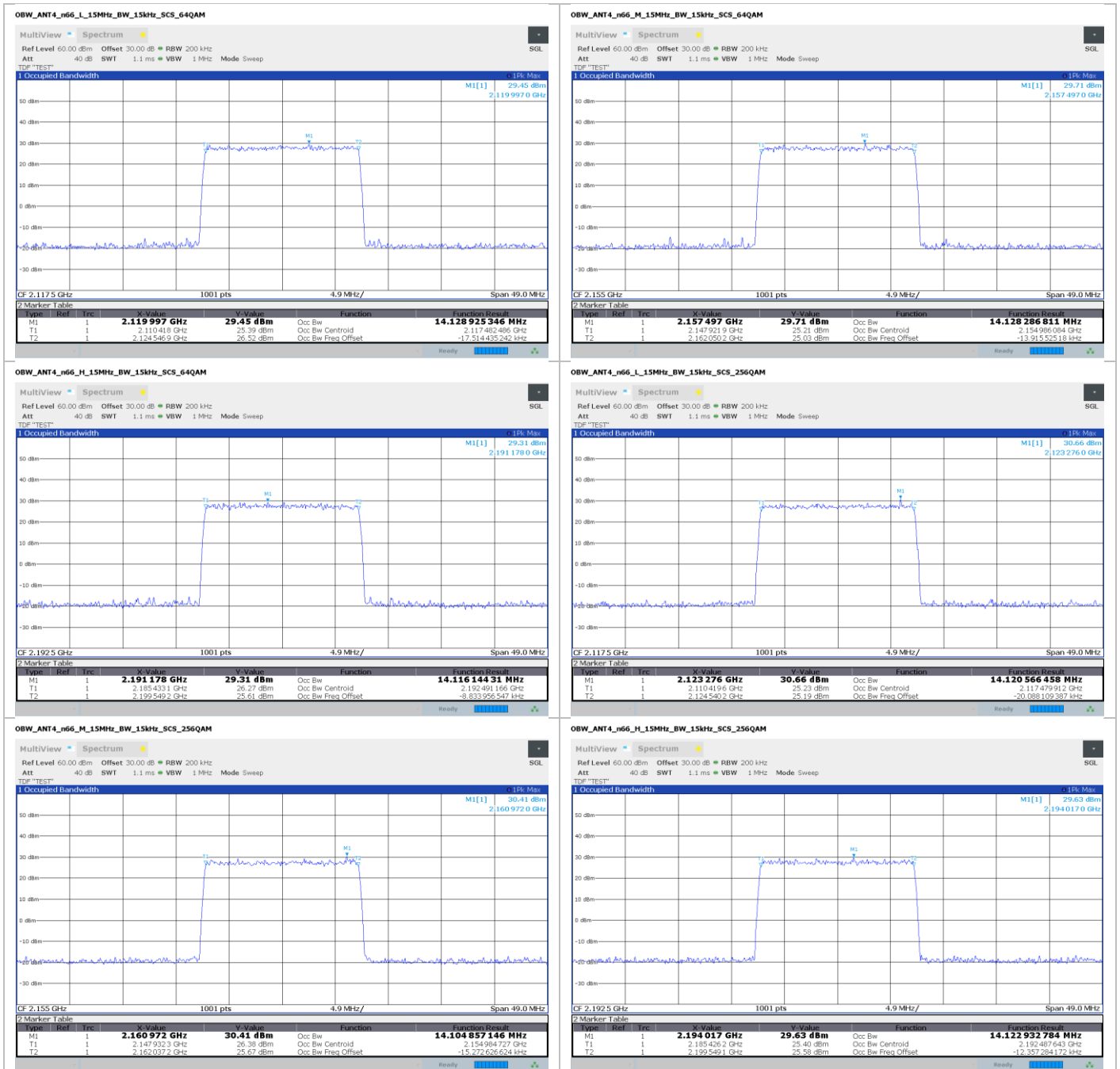
Band n66:

15 MHz



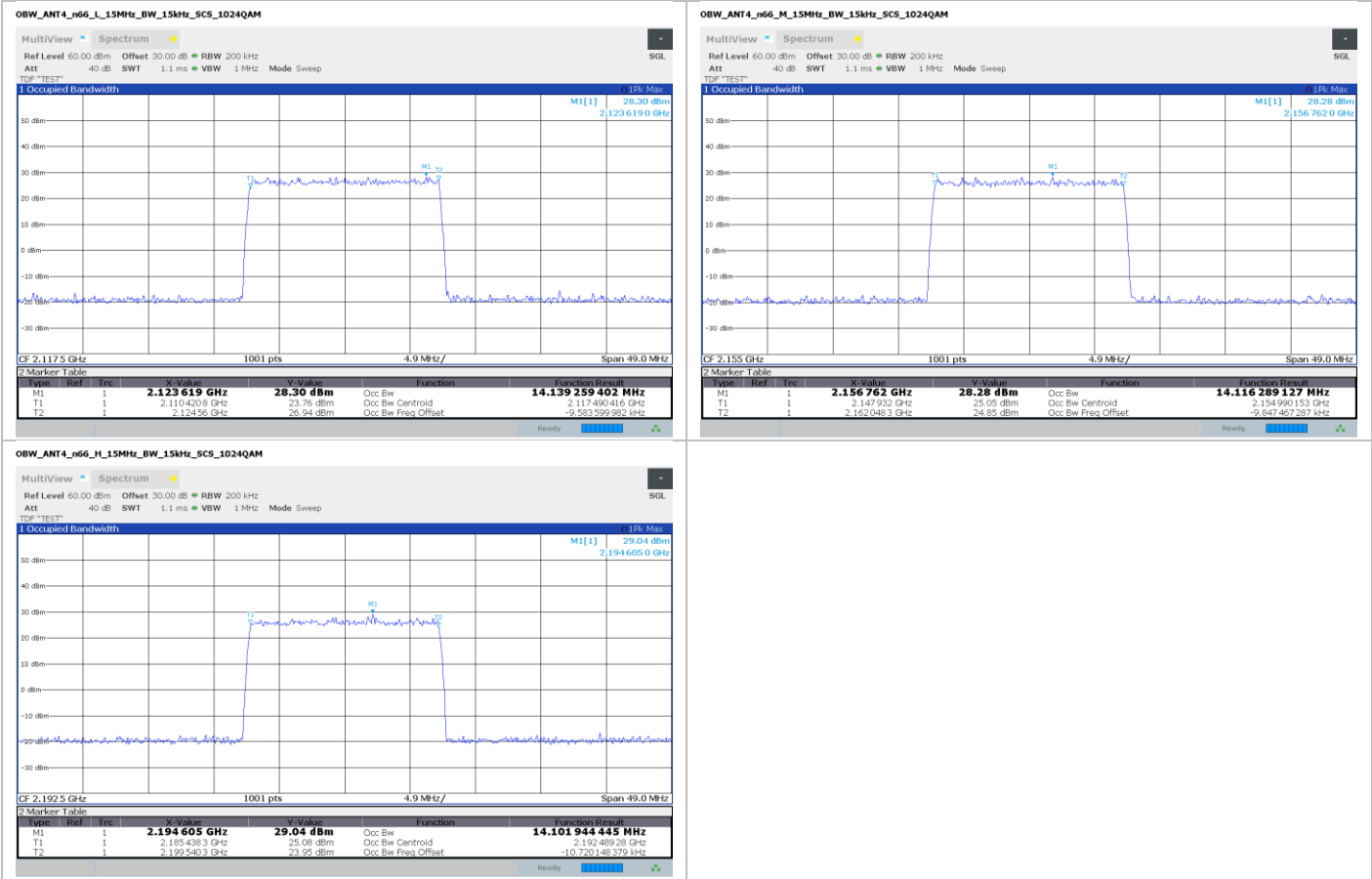
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FCC Part 27



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Testing data
FCC §2.1049(h) 99% Occupied Bandwidth
FCC Part 27



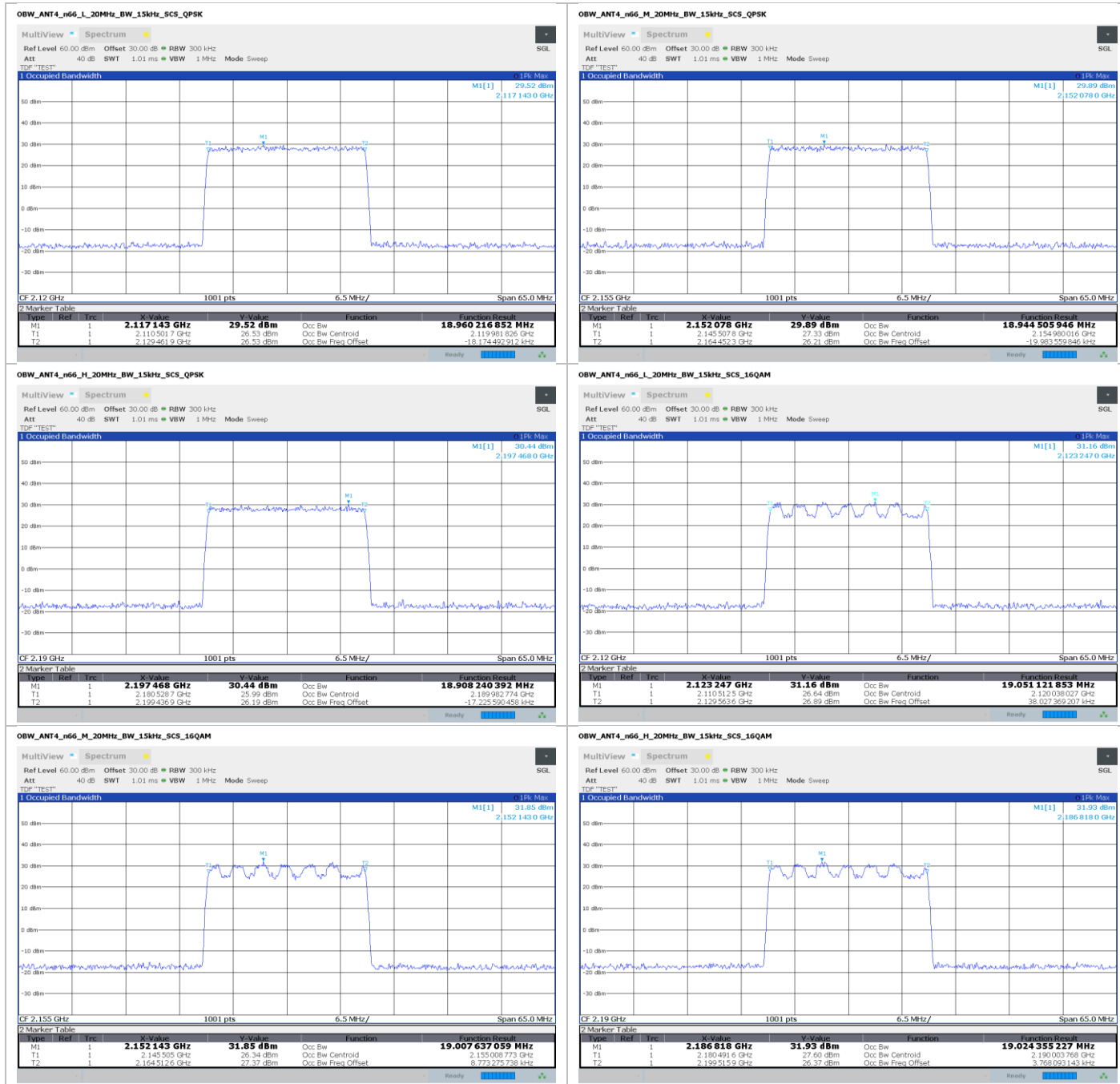
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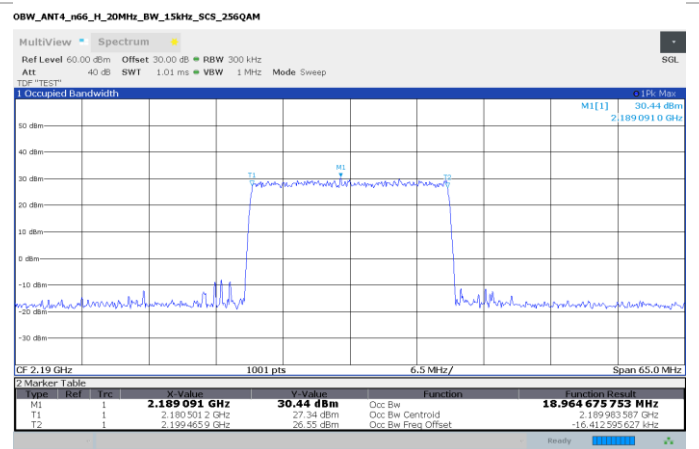
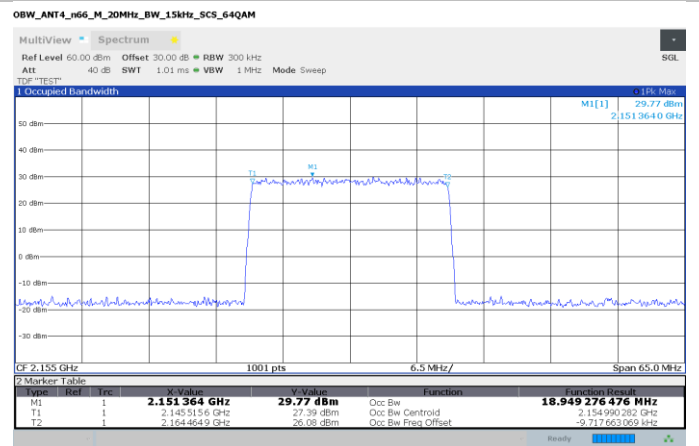
Band n66:

20 MHz



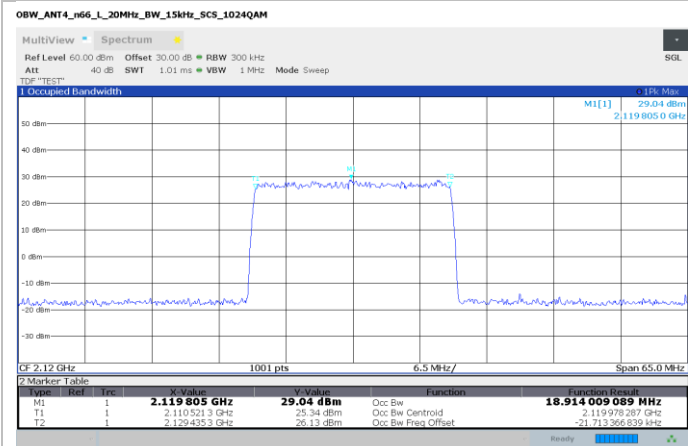
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Testing data
FCC §2.1049(h) 99% Occupied Bandwidth
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Section 8
Test name
Specification

Testing data
FCC §2.1049(h) 99% Occupied Bandwidth
FCC Part 27



Band n70:

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	5 MHz	C	1997.5	4.516
n70	5 MHz	C	2007.5	4.495
n70	5 MHz	C	2017.5	4.489

Table 8.2-21: 99% Occupied bandwidth, QPSK Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	5 MHz	C	1997.5	4.514
n70	5 MHz	C	2007.5	4.493
n70	5 MHz	C	2017.5	4.497

Table 8.2-22: 99% Occupied bandwidth, 16QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	5 MHz	C	1997.5	4.493
n70	5 MHz	C	2007.5	4.51
n70	5 MHz	C	2017.5	4.492

Table 8.2-23: 99% Occupied bandwidth, 64QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	5 MHz	C	1997.5	4.491
n70	5 MHz	C	2007.5	4.495
n70	5 MHz	C	2017.5	4.494

Table 8.2-24: 99% Occupied bandwidth, 256QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	5 MHz	C	1997.5	4.489
n70	5 MHz	C	2007.5	4.497
n70	5 MHz	C	2017.5	4.493

Table 8.2-25: 99% Occupied bandwidth, 1024QAM Modulation, 5 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	10 MHz	C	2000	9.339
n70	10 MHz	C	2007.5	9.316
n70	10 MHz	C	2015	9.313

Table 8.2-26: 99% Occupied bandwidth, QPSK Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	10 MHz	C	2000	9.264
n70	10 MHz	C	2007.5	9.27
n70	10 MHz	C	2015	9.267

Table 8.2-27: 99% Occupied bandwidth, 16QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	10 MHz	C	2000	9.348
n70	10 MHz	C	2007.5	9.341
n70	10 MHz	C	2015	9.329

Table 8.2-28: 99% Occupied bandwidth, 64QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	10 MHz	C	2000	9.333
n70	10 MHz	C	2007.5	9.354
n70	10 MHz	C	2015	9.356

Table 8.2-29: 99% Occupied bandwidth, 256QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	10 MHz	C	2000	9.311
n70	10 MHz	C	2007.5	9.31
n70	10 MHz	C	2015	9.292

Table 8.2-30: 99% Occupied bandwidth, 1024QAM Modulation, 10 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	20 MHz	C	2005	18.941
n70	20 MHz	C	2007.5	18.941
n70	20 MHz	C	2010	19.011

Table 8.2-31: 99% Occupied bandwidth, QPSK Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	20 MHz	C	2005	19.003
n70	20 MHz	C	2007.5	19.071
n70	20 MHz	C	2010	19.045

Table 8.2-32: 99% Occupied bandwidth, 16QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	20 MHz	C	2005	18.961
n70	20 MHz	C	2007.5	18.981
n70	20 MHz	C	2010	18.965

Table 8.2-33: 99% Occupied bandwidth, 64QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	20 MHz	C	2005	18.99
n70	20 MHz	C	2007.5	18.966
n70	20 MHz	C	2010	18.957

Table 8.2-34: 99% Occupied bandwidth, 256QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	20 MHz	C	2005	18.945
n70	20 MHz	C	2007.5	19.008
n70	20 MHz	C	2010	18.938

Table 8.2-35: 99% Occupied bandwidth, 1024QAM Modulation, 20 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	25 MHz	C	2007.5	23.767

Table 8.2-36: 99% Occupied bandwidth, QPSK Modulation, 25 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	25 MHz	C	2007.5	23.839

Table 8.2-37: 99% Occupied bandwidth, 16QAM Modulation, 25 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	25 MHz	C	2007.5	23.768

Table 8.2-38: 99% Occupied bandwidth, 64QAM Modulation, 25 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	25 MHz	C	2007.5	23.74

Table 8.2-39: 99% Occupied bandwidth, 256QAM Modulation, 25 MHz

Band	OBW Declared	Port	Channel (MHz)	99% OBW (MHz)
n70	25 MHz	C	2007.5	23.784

Table 8.2-40: 99% Occupied bandwidth, 1024QAM Modulation, 25 MHz

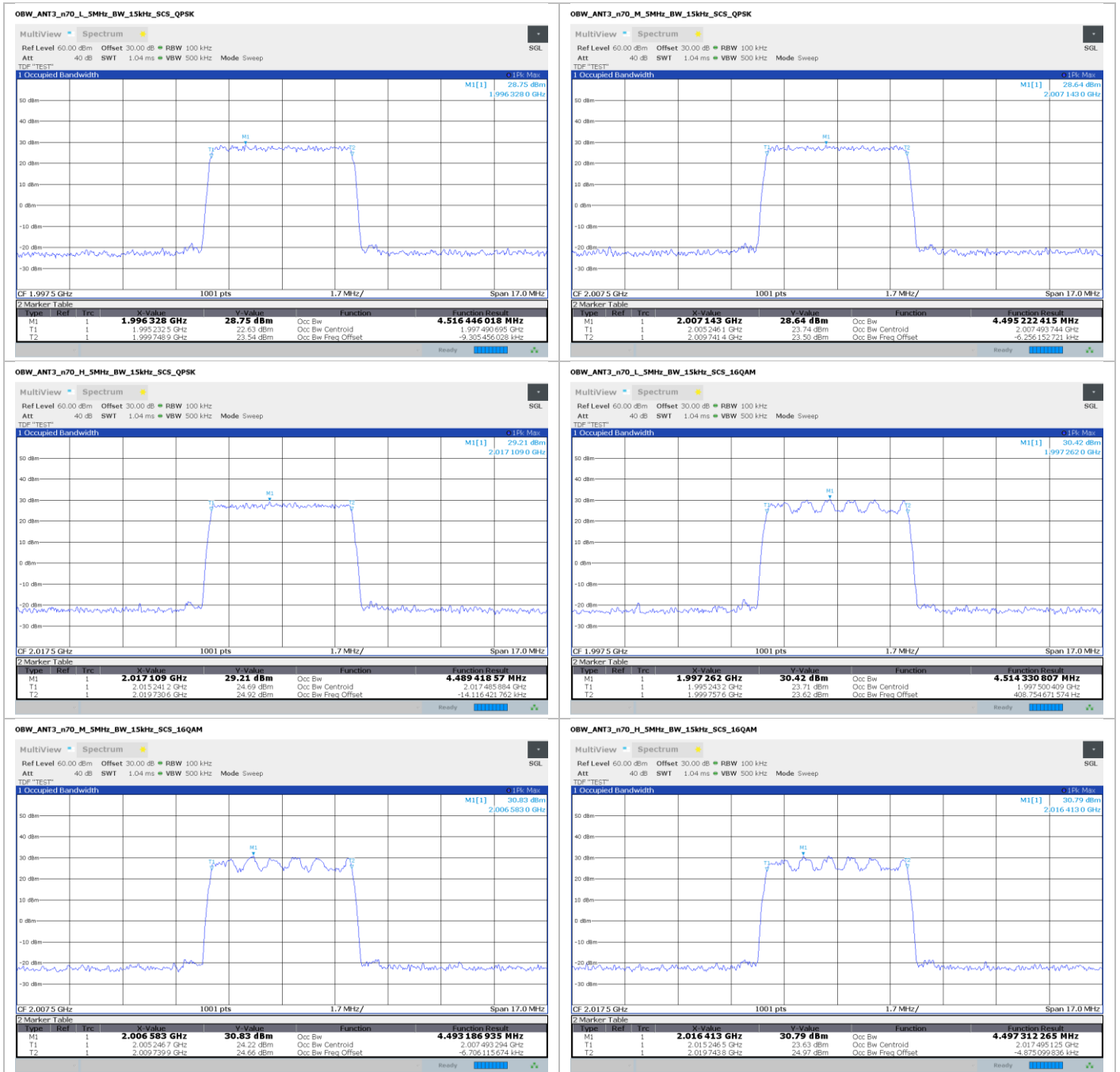
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Testing data
FCC §2.1049(h) 99% Occupied Bandwidth
FCC Part 27



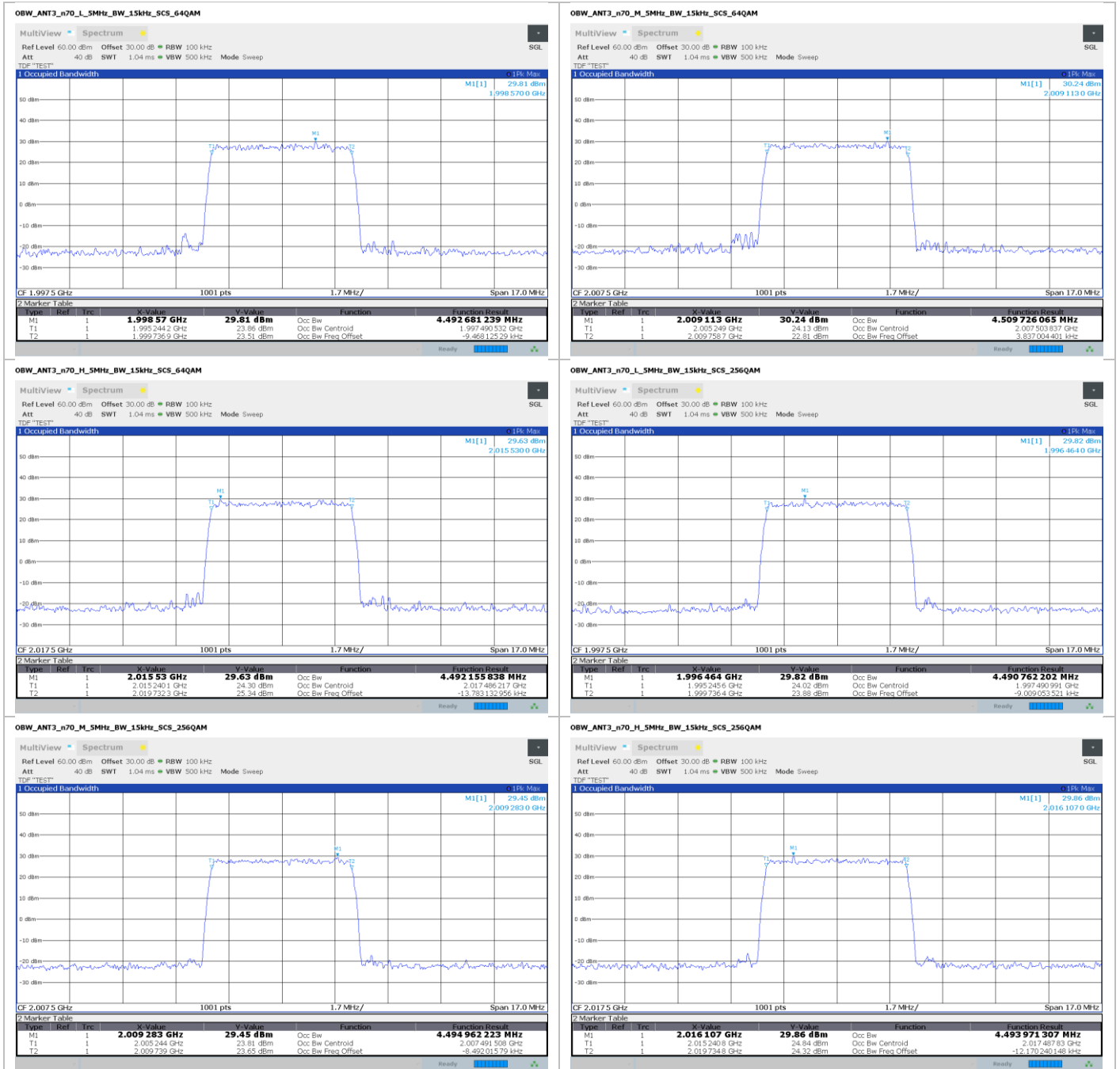
Band n70

5 MHz



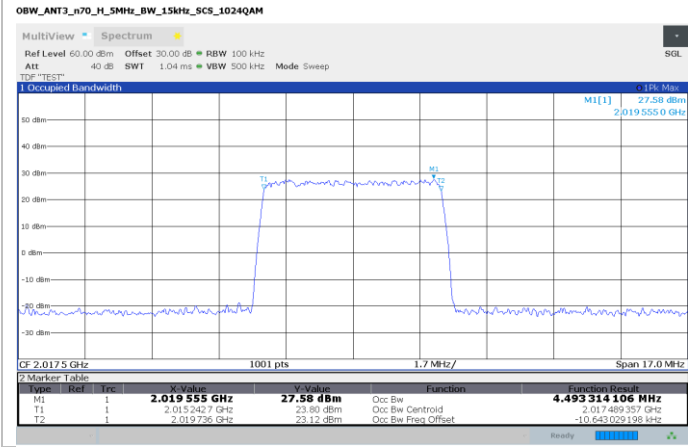
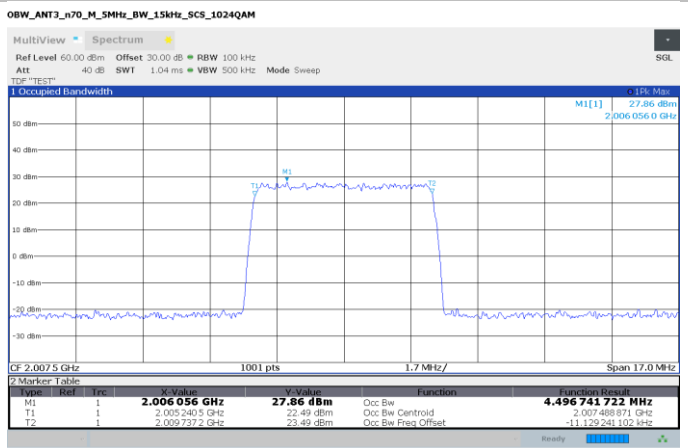
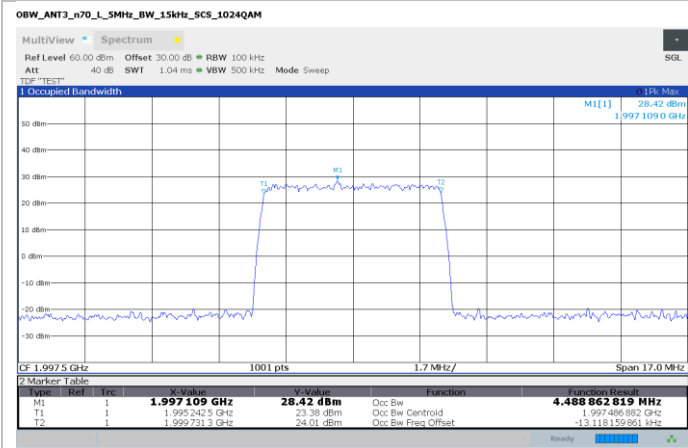
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FCC §2.1049(h) 99% Occupied Bandwidth
FCC Part 27



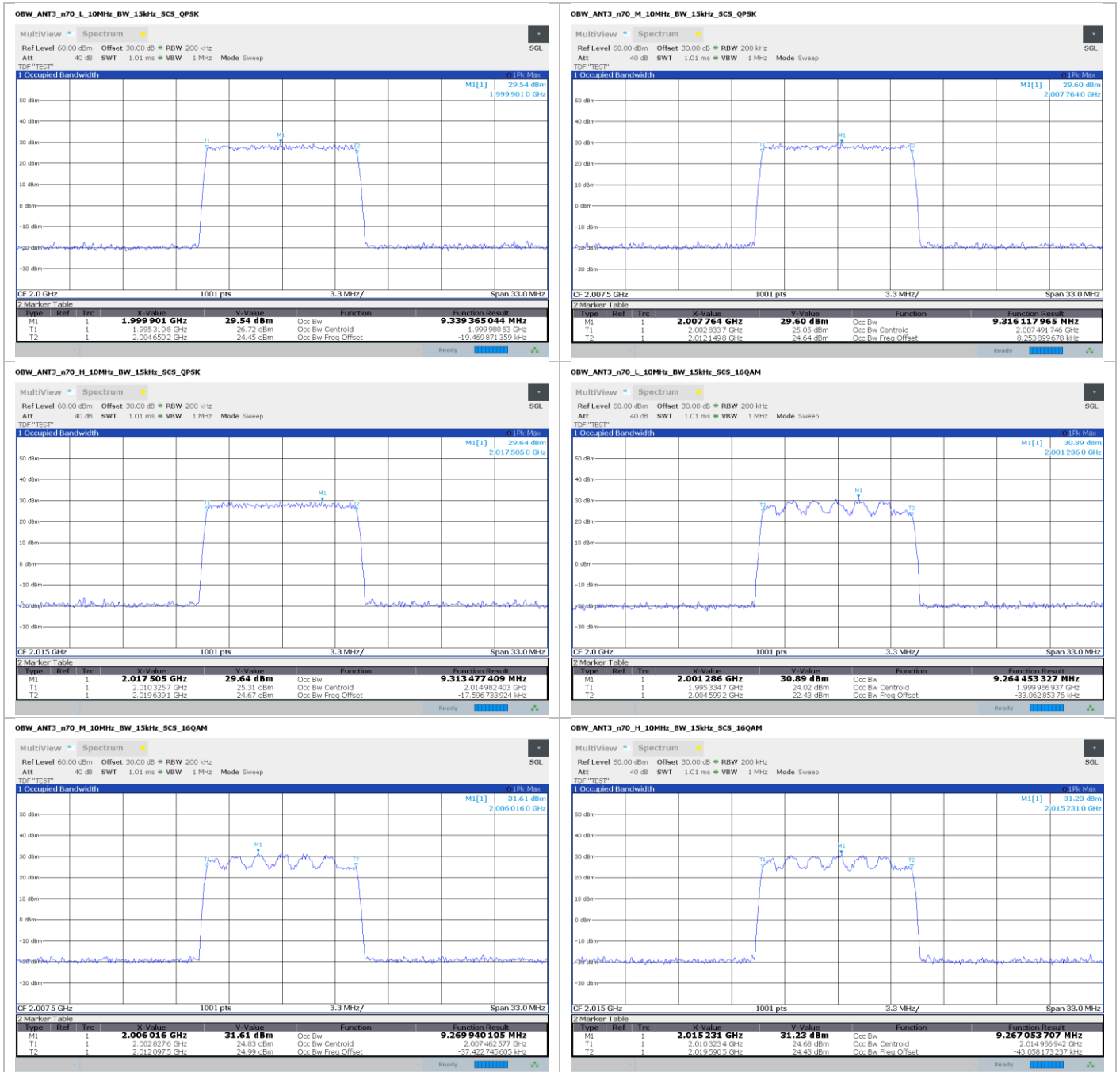
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Band n70

10 MHz



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