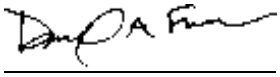
FCC Part 15.407
Certification Application Report

Test Lab:		Applicant:	
Rhein Tech Laboratories, Inc. Phone: 703-689 0368 360 Herndon Parkway www.rheintech.com Suite 1400 Herndon, VA 20170		L3Harris Technologies, Inc. 221 Jefferson Ridge Parkway Lynchburg, VA 24501 USA	
FCC ID	OWDTR-0179-E	**Test Report Date**	February 18, 2026
Platform	N/A	**RTL Work Order #**	2025003NII
Model	XL-200P	**RTL Quote Number**	QRTL25-003B

American National Standard Institute	ANSI C63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
FCC Classification	NII-Unlicensed National Information Infrastructure TX
FCC Rule Part(s)	Part 15, Subpart E—Unlicensed National Information Infrastructure Devices
Digital Interface Information	Digital Interface was found to be compliant
ISED Standards	RSS-247 Issue 4: Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands RSS-Gen Issue 5: General Requirements for Compliance of Radio Apparatus

Frequency Range (MHz)	Output Power (W) Peak Conducted	Frequency Tolerance	Emission Designator
5170 – 5240	0.107	N/A	18M8G7D
5745 – 5825	0.079	N/A	18M1G7D
5170 – 5240	0.200	N/A	36M2G7D
5745 – 5825	0.141	N/A	36M1G7D

I, the undersigned, hereby declare that the equipment tested and referenced in this report conforms to the identified standard(s) as described in this test report. No modifications were made to the equipment during testing in order to achieve compliance with these standards. Furthermore, there was no deviation from, additions to, or exclusions from the applicable parts of FCC Part 2, FCC Part 15, and ANSI C63.10.

Signature:  Date: February 18, 2026

Typed/Printed Name: Desmond A. Fraser Position: President

These tests are accredited and meet the requirements of ISO/IEC 17025 as verified by ANAB. Refer to the certificate and the scope of accreditation AT-1445. This report replaces R1.0.docx.

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1 General Information

1.1 Scope

Applicable Standards

FCC Rules Part 15.407: Unlicensed National Information Infrastructure Devices - General Technical Requirements

RSS-247 Issue 4: Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands

RSS-Gen Issue 5; General Requirements for Compliance of Radio Apparatus

1.2 Measurement Uncertainty

The measurement uncertainty complies with CISPR 16-4-2 limits and is not used to adjust measurements for compliance determination. Expanded uncertainty (U) for each scope, calculated per ANSI/NCSL Z540-2-1997 (R2002) with a type B evaluation, is provided in this RTL report. While this demonstrates RTL's commitment to transparency, compliance decisions are based solely on comparing measured values directly to the relevant standards' limits.

1.3 Description of EUT

The EUT is a client device that lacks the hardware components required to support DFS functionality.

Equipment Under Test	Portable Radio
Models	XL-200P
Power Supply	7.2 VDC
Modulation Type	OFDM (802.11 a)
Frequency Range	5170 – 5240 MHz; 5745 – 5825 MHz

1.4 Test Facility

The open area test site and the conducted measurement facility used to collect the radiated data are located at 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170.

CAB ID: US0079

1.5 Related Submittal(s)/Grant(s)

This is an original certification application for the L3Harris Technologies, Inc. Model XL-200P Multi-Band Portable Radio; FCC ID: OWDTR-0179-E, IC: 3636B-0179.

1.6 Modifications

No modifications were required for compliance.

2 Test Information

2.1 Description of Test Modes

In accordance with FCC 15.31(m), and because the EUT utilizes an operating band greater than 10 MHz, the following frequencies were tested.

Table 2-1: Channels Tested for Wi-Fi 802.11a

Channel (#)	Frequency (MHz)
34 (U-NII 1)	5170
36 (U-NII 1)	5180
38 (U-NII 1)	5190
40 (U-NII 1)	5200
42 (U-NII 1)	5210
44 (U-NII 1)	5220
46 (U-NII 1)	5230
48 (U-NII 1)	5240
149 (U-NII 3)	5745
151 (U-NII 3)	5755
153 (U-NII 3)	5765
155 (U-NII 3)	5775
157 (U-NII 3)	5785
159 (U-NII 3)	5795
161 (U-NII 3)	5805
165 (U-NII 3)	5825

2.2 Exercising the EUT

The EUT was tested in three orthogonal planes to determine worst-case emissions. EUT software version R18A03.0074 allows the tester to enable continuous transmit during testing. The carrier was also checked to verify that information was being transmitted. All modes were investigated, and the worst-case mode was used for final testing. There were no deviations from the test standard(s) and/or methods. The reported test results apply only to the item tested.

2.3 Test Result Summary

Table 2-2: Test Result Summary – FCC Part 15, Subpart C (Section 15.407)

FCC	ISED	Test	Result
FCC 15.207	RSS-Gen 8.8	AC Conducted Emissions	N/A
FCC 15.209	RSS-Gen 6.12/6.13 RSS-247 7.3.x	Radiated Emissions	Pass
FCC 15.407(a/1/3)	RSS-Gen 6.12 RSS-247 7.3.x	Maximum Peak Power Output	Pass
FCC 15.407(a/1/3)	RSS-247 7.3.x	Power Spectral Density	Pass
FCC 15.407(g)	RSS-Gen 6.11	Frequency Stability	N/A
FCC 15.407(b)(7)	RSS-247 7.3.x	Band Edge Measurement	Pass
FCC 15.407(b)(6)	RSS-247 7.3.x	Antenna Conducted Spurious Emissions	Pass
FCC 15.407(a) and (e)	RSS-247 7.3.x	26 dB and 6dB Bandwidth	Pass
N/A	RSS-Gen 6.7; TRC-43 (test method)	99% Bandwidth	Pass

2.4 Tested System Details

The test sample was received on January 21, 2025. Listed below are the identifiers and descriptions of all equipment, cables, and internal devices used with the EUT for this test, as applicable. The device was programmed for multiple modes of operation and modulation types. The EUT was tested at all available data rates, and the worst-case results are presented in this test report.

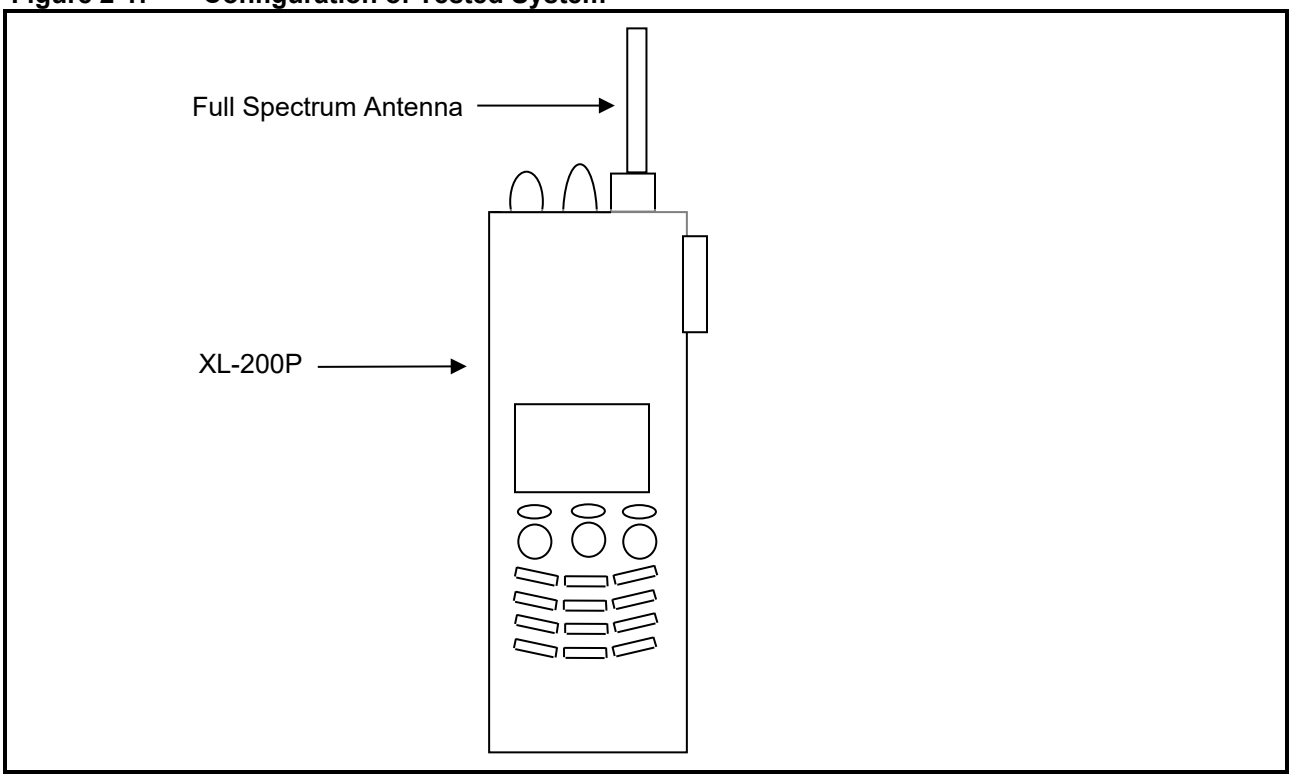
Table 2-3: Equipment Under Test (EUT)

Part	Manufacturer	Model	PN/SN	FCC ID	RTL Bar Code
Portable Radio (w/LTE)	L3Harris Technologies, Inc.	XL-200P	14038-1010-01	OWDTR-0179-E	24461
Portable Radio (conducted unit)	L3Harris Technologies, Inc.	XL-200P	14038-1010-01	OWDTR-0179-E	24497
LTE	Sierra Wireless	EM7595	N/A	N7NEM75Y	N/A

Table 2-4: EUT Auxiliary Equipment

Part	Manufacturer	Model	PN/SN	FCC ID	RTL Bar Code
Full Spectrum Antenna	L3Harris Technologies, Inc.	136-870 MHz	14035-4000-01	N/A	23499
7.2V Li-Ion Battery	Richcom Power	RXL200H-Li	B730R	N/A	24407
Microphone	L3Harris Technologies, Inc.	14050-6010-01 Rev AA00503	F2P22143	N/A	24462

Figure 2-1: Configuration of Tested System



3 Peak Output Power – FCC 15.407(a/1/3)

3.1 Power Output Test Procedure

For 20 MHz Bandwidth

ANSI C63.10 §11.9.1.1 RBW ≥ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ [3 × RBW].
c) Set span ≥ [3 × RBW].
d) Sweep time = auto couple.
e) Detector = peak.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use peak marker function to determine the peak amplitude level.

For 40 MHz BW's ANSI C63.10 § 11.9.1.2 Integrated band power method

The following procedure can be used when the maximum available RBW of the instrument is less than the DTS bandwidth:

a) Set the RBW = 1 MHz.
b) Set the VBW ≥ [3 × RBW].
c) Set the span ≥ [1.5 × DTS bandwidth].
d) Detector = peak.
e) Sweep time = auto couple
f) Trace mode = max hold.

Table 3-1: Power Output Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901773	Rohde & Schwarz	FSW50	Analyzer	101021	05/30/2027
901772	Pasternack	PE7087-10	10 dB 2 W 26 GHz Attenuator	1011	10/08/2027

3.2 Power Output Test Results

Table 3-2: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Pressure (kPa)
March 13, 2025	23.7	19	101.5

Table 3-3: Power Output Test Data – U-NII 1 – 802.11a (20 MHz BW)

Channel (#)	Frequency (MHz)	Conducted Peak Power (dBm)	Limit (dBm)	Margin (dB)
36	5180	20.0	30.0	-10.0
40	5200	20.3	30.0	-9.7
48	5240	20.0	30.0	-10.0

Table 3-4: Power Output Test Data – U-NII 3 – 802.11a (20 MHz BW)

Channel (#)	Frequency (MHz)	Conducted Peak Power (dBm)	Limit (dBm)	Margin (dB)
149	5745	19.0	30.0	-11.0
157	5785	19.0	30.0	-11.0
165	5825	18.9	30.0	-11.1

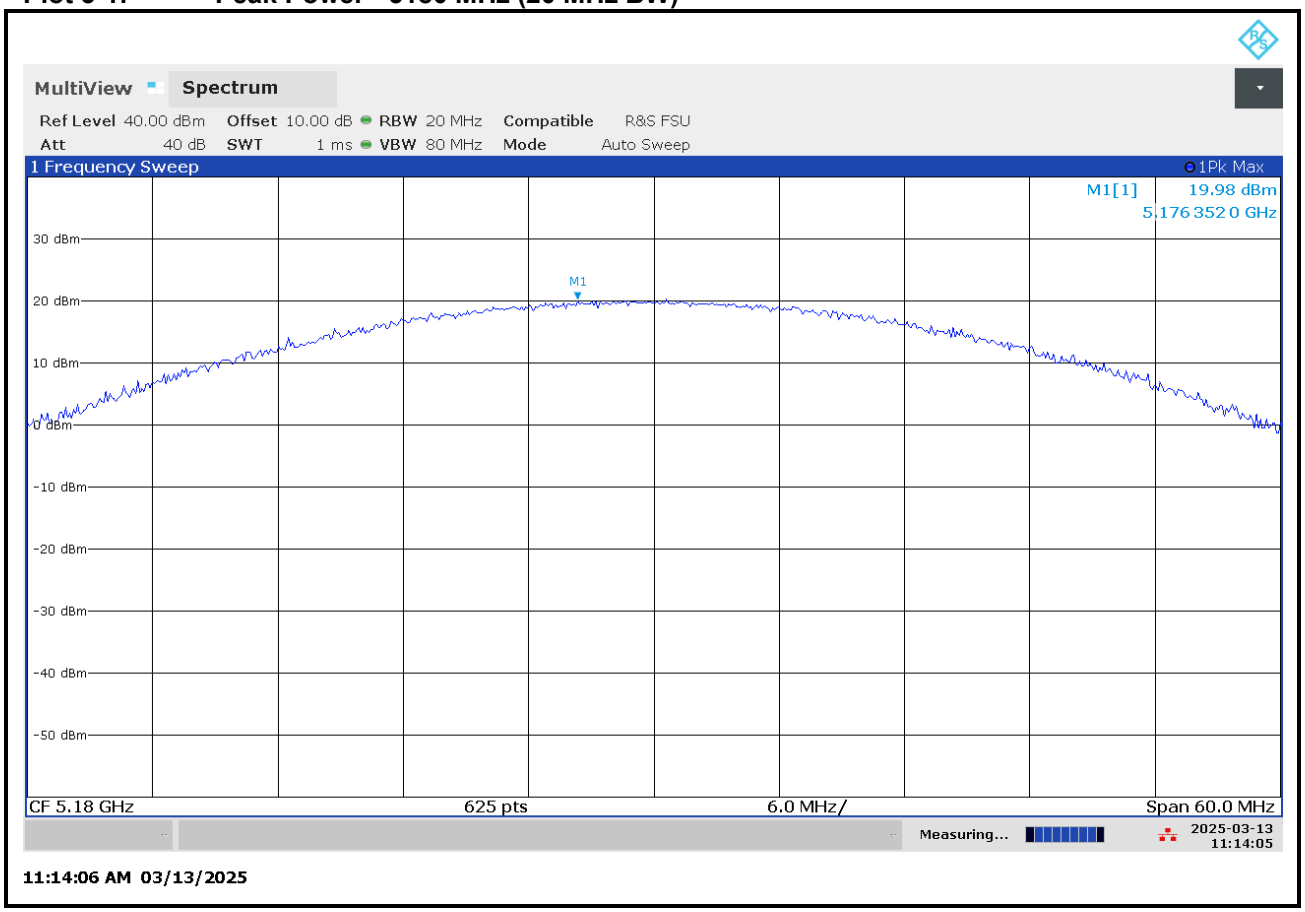
Table 3-5: Power Output Test Data – U-NII 1 – 802.11a (40 MHz BW)

Channel (#)	Frequency (MHz)	Conducted Peak Power (dBm)	Limit (dBm)	Margin (dB)
38	5190	23.0	30.0	-7.0
46	5230	23.0	30.0	-7.0

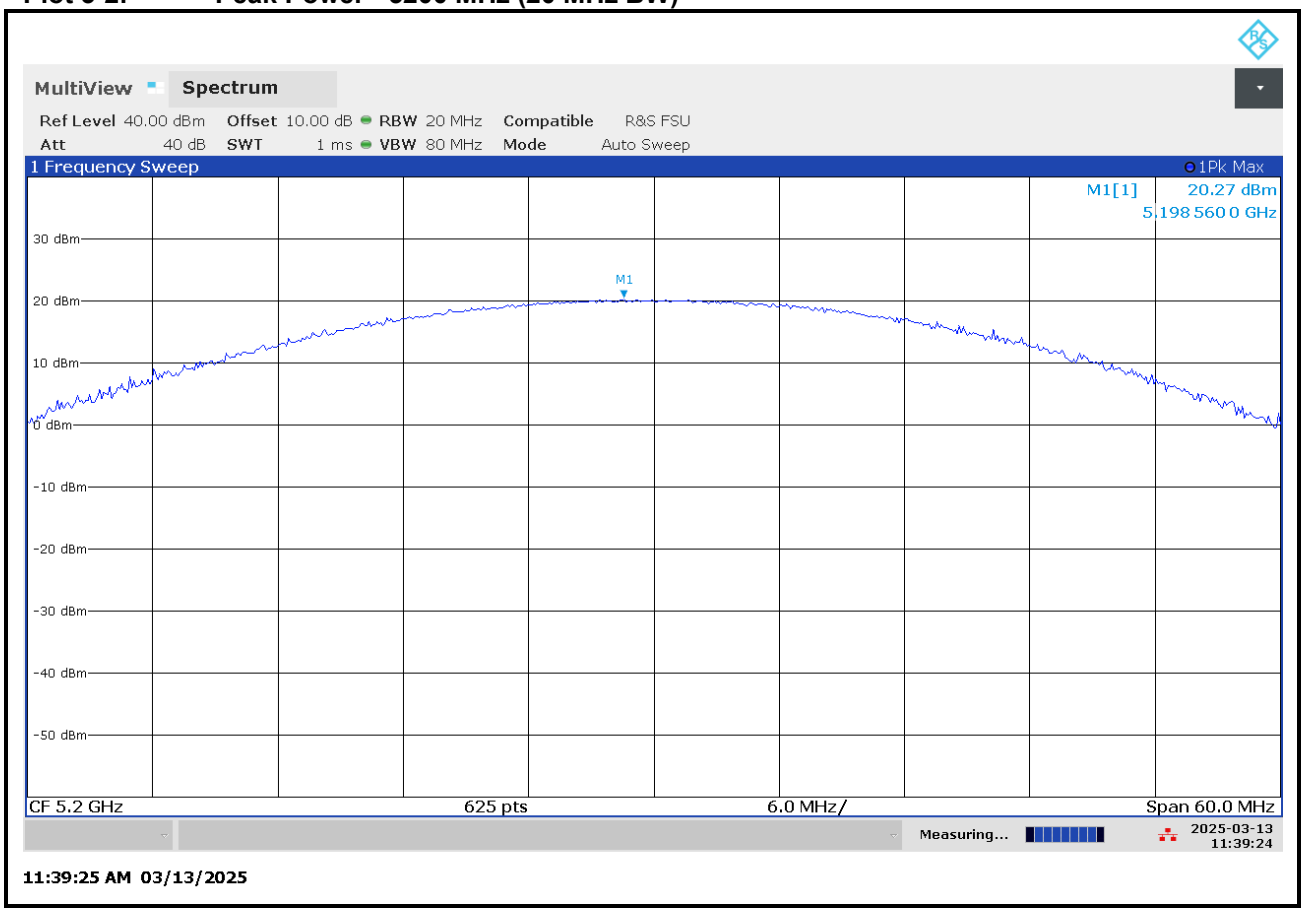
Table 3-6: Power Output Test Data – U-NII 3 – 802.11a (40 MHz BW)

Channel (#)	Frequency (MHz)	Conducted Peak Power (dBm)	Limit (dBm)	Margin (dB)
151	5755	21.5	30.0	-8.5
159	5795	21.0	30.0	-9.0

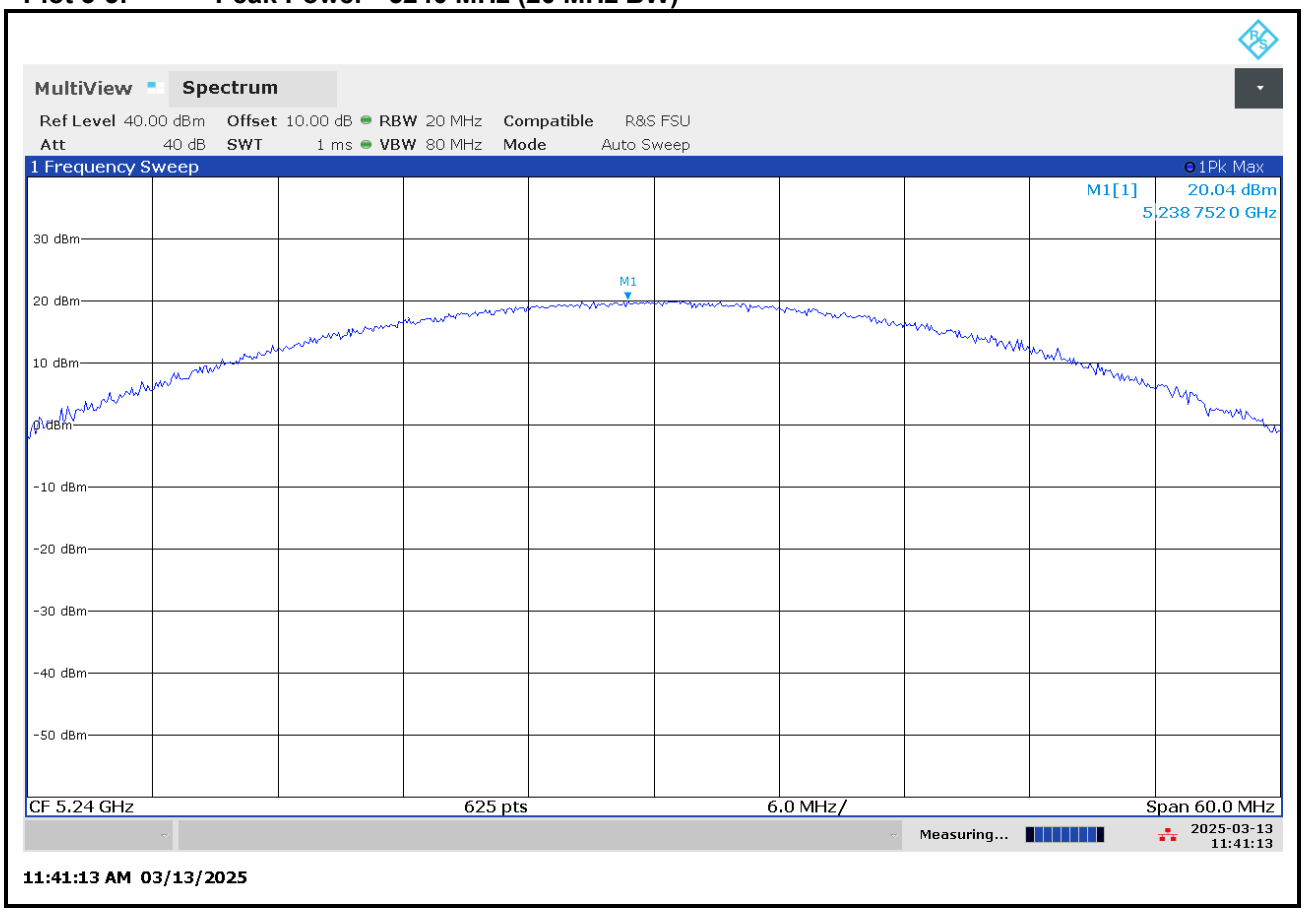
Plot 3-1: Peak Power - 5180 MHz (20 MHz BW)



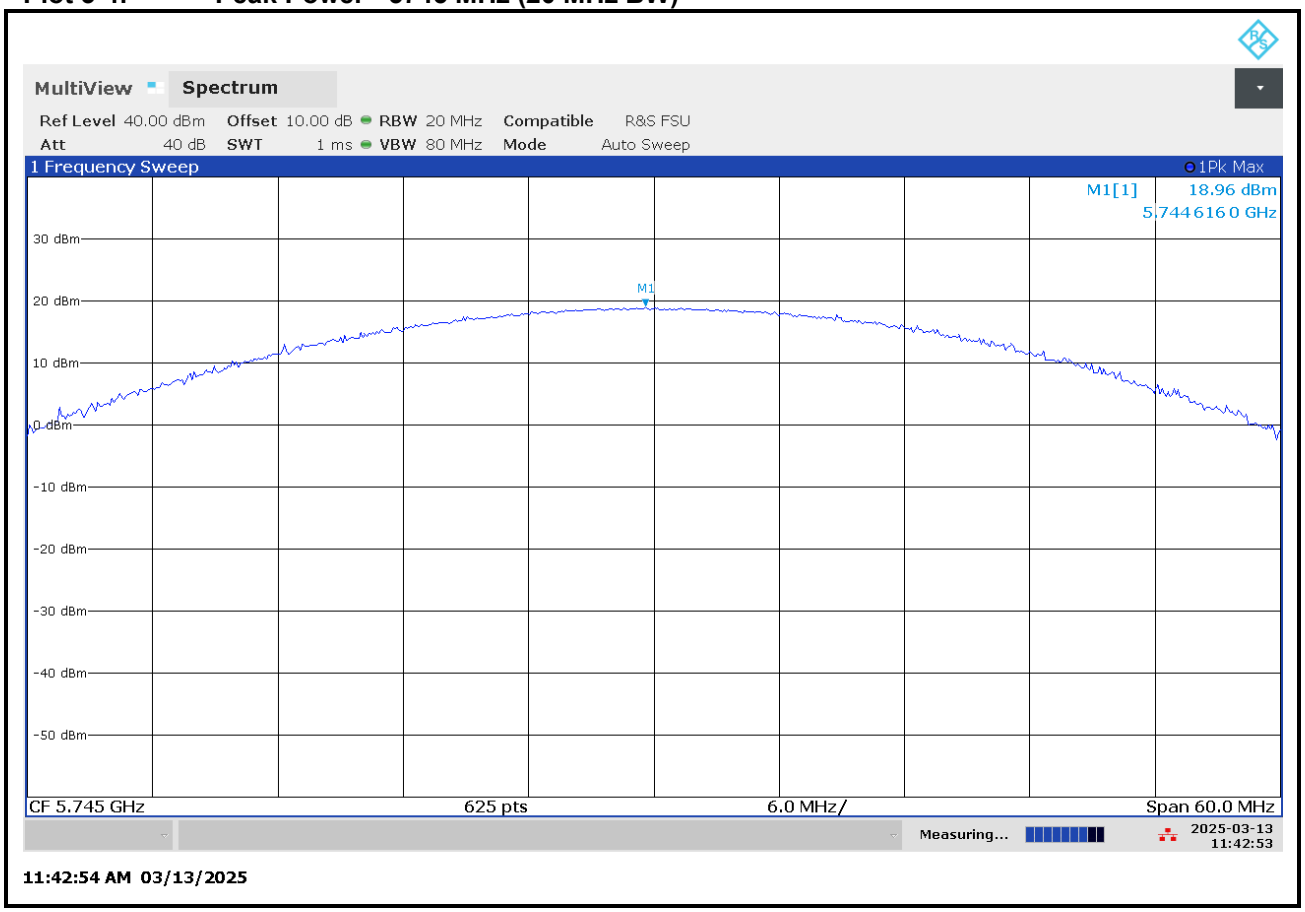
Plot 3-2: Peak Power - 5200 MHz (20 MHz BW)



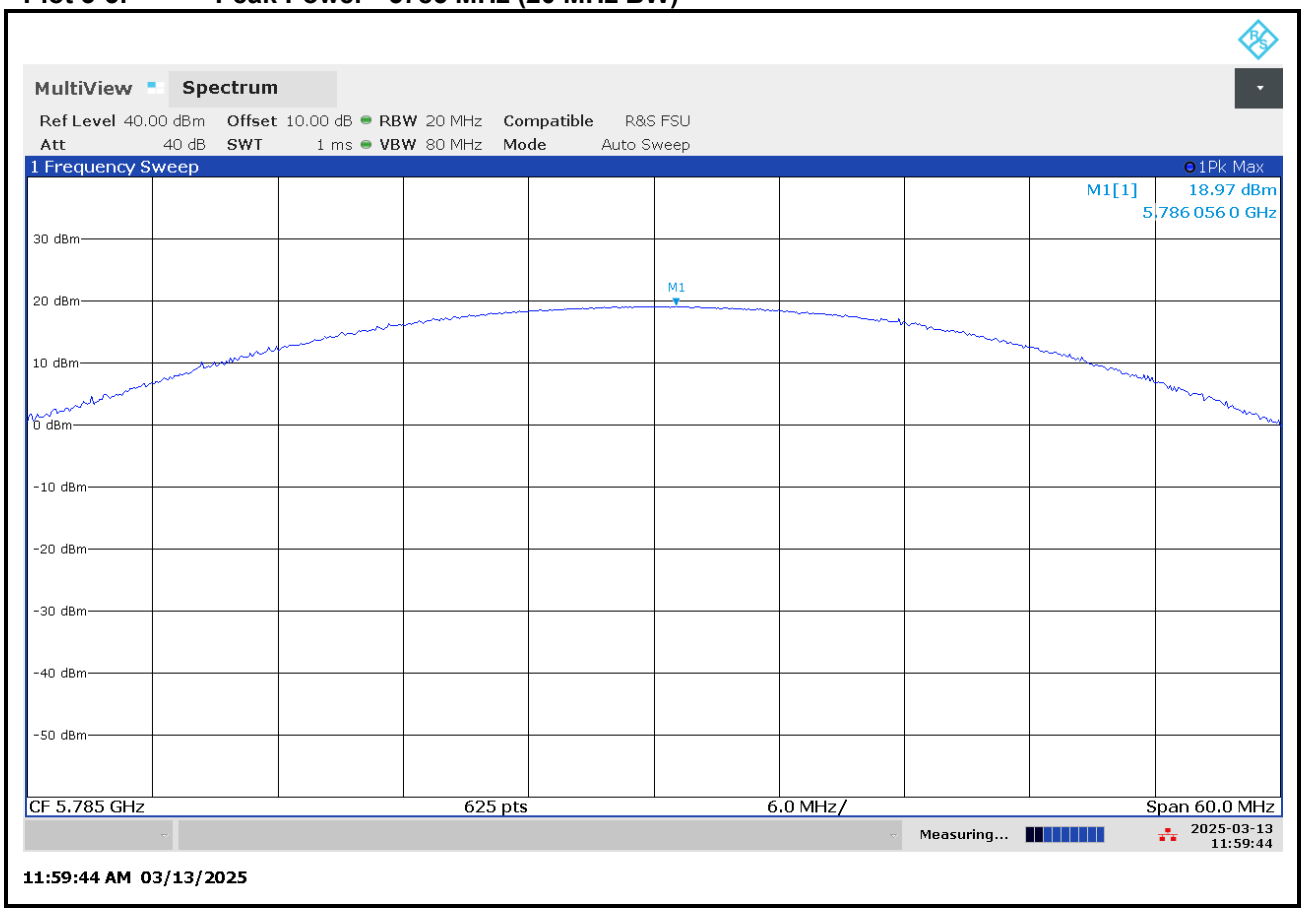
Plot 3-3: Peak Power - 5240 MHz (20 MHz BW)



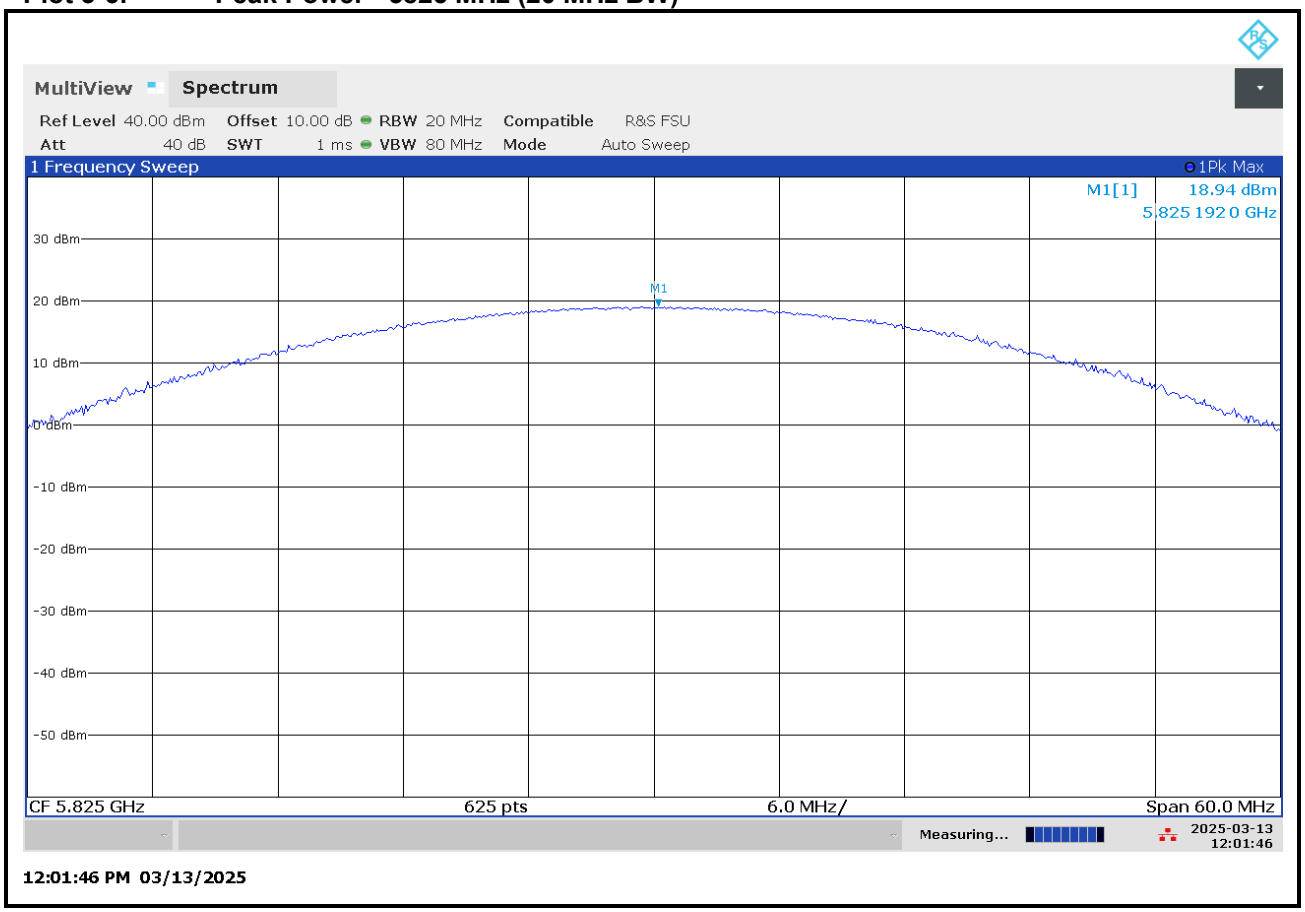
Plot 3-4: Peak Power - 5745 MHz (20 MHz BW)



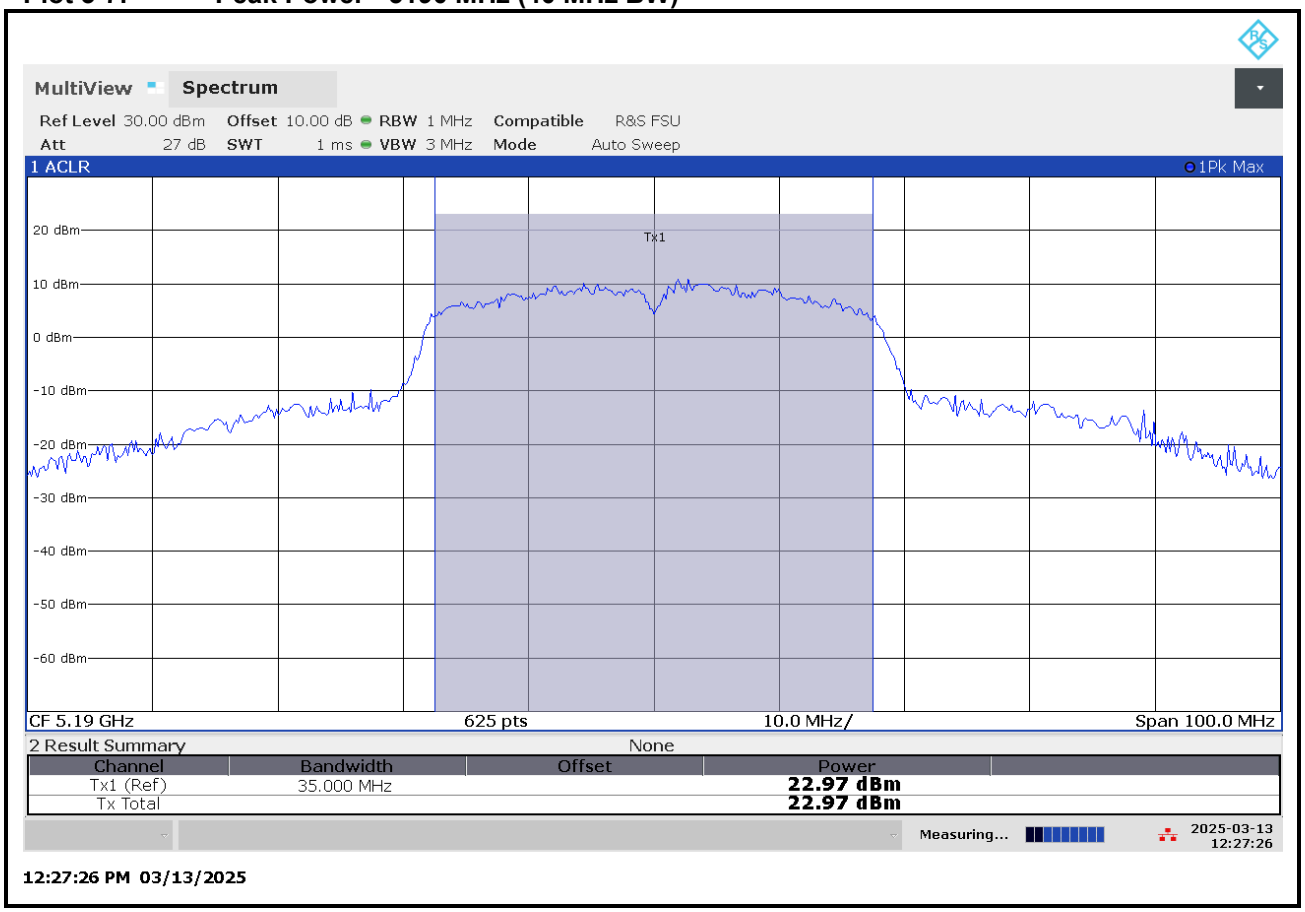
Plot 3-5: Peak Power - 5785 MHz (20 MHz BW)



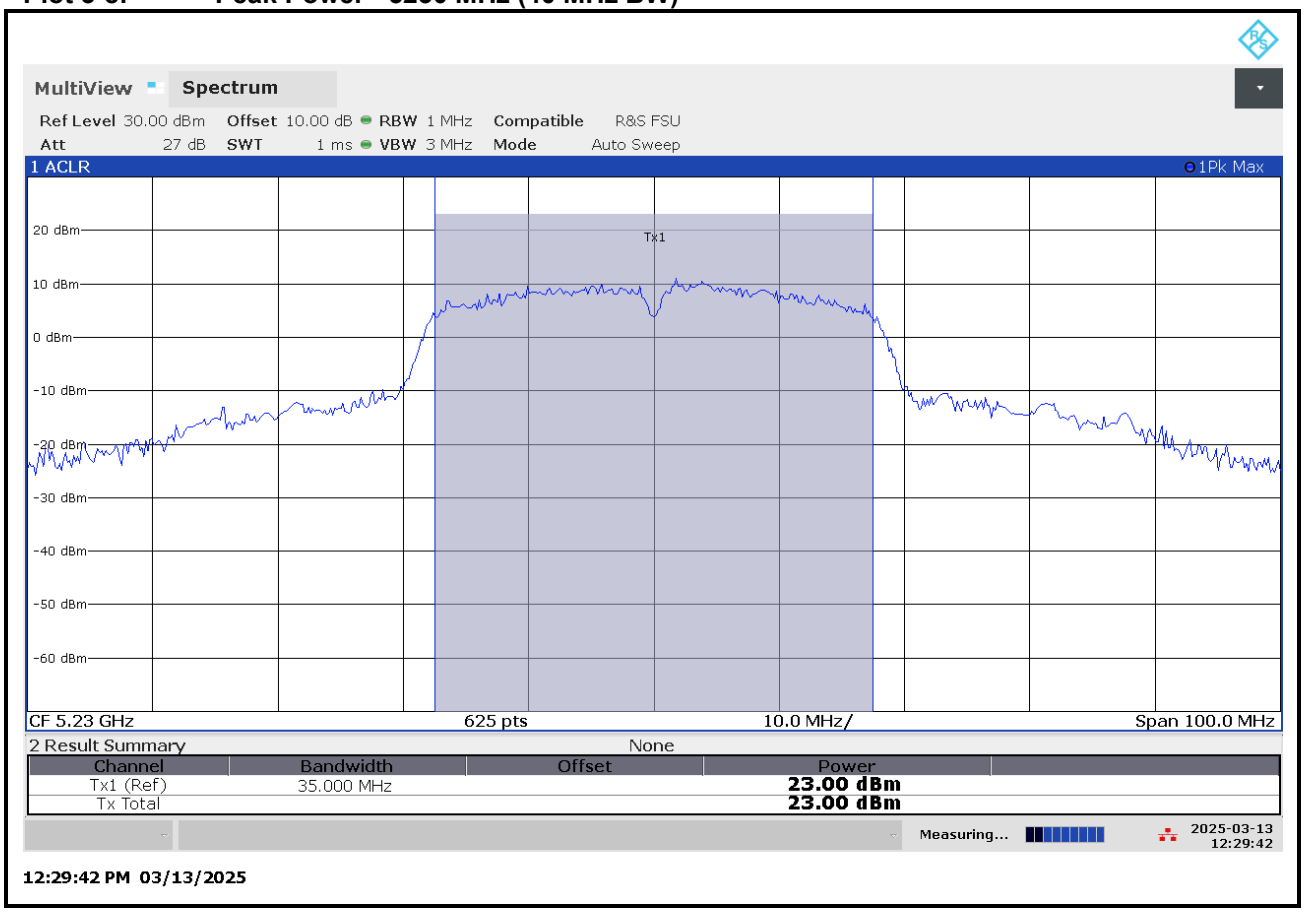
Plot 3-6: Peak Power - 5825 MHz (20 MHz BW)



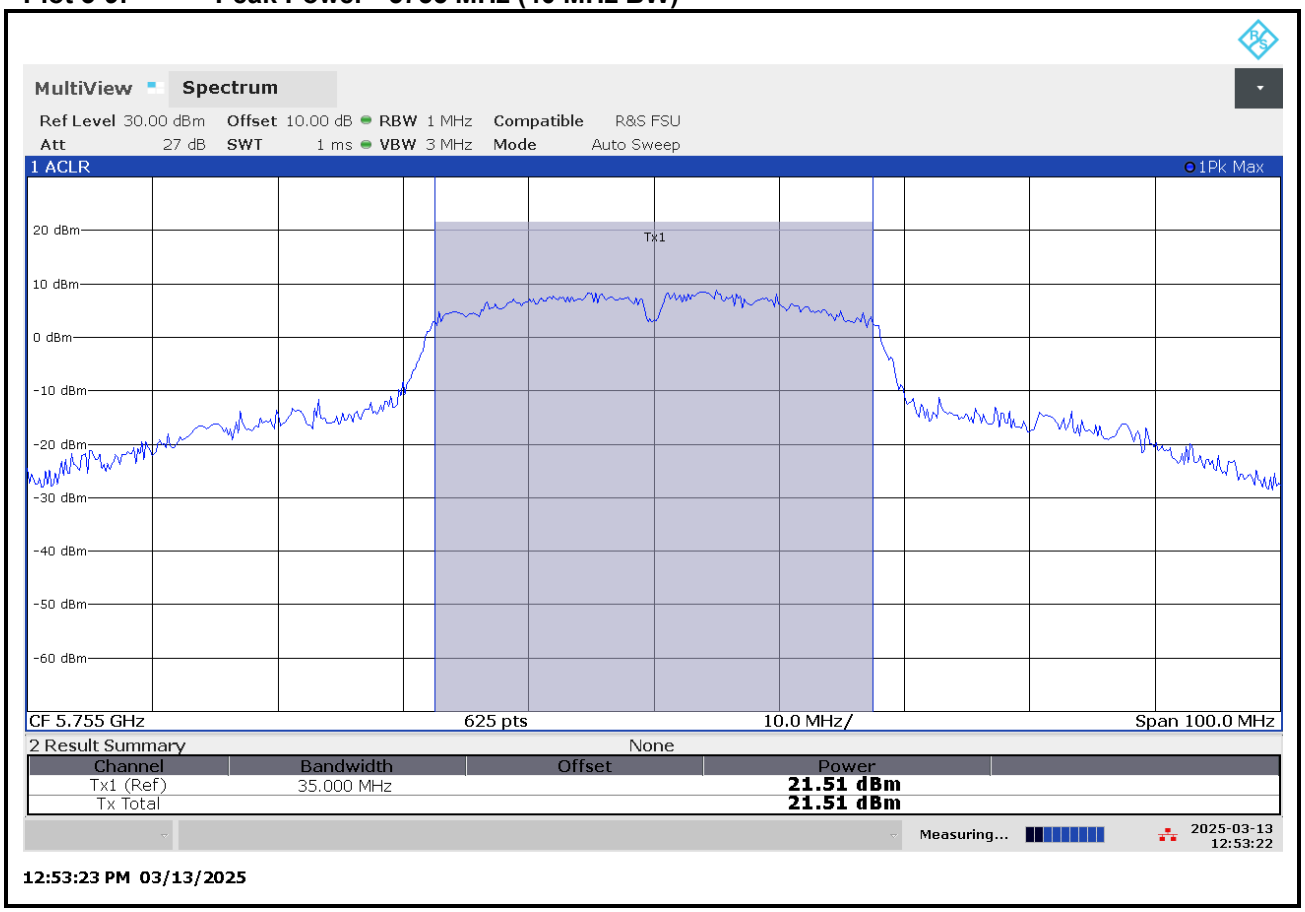
Plot 3-7: Peak Power - 5190 MHz (40 MHz BW)



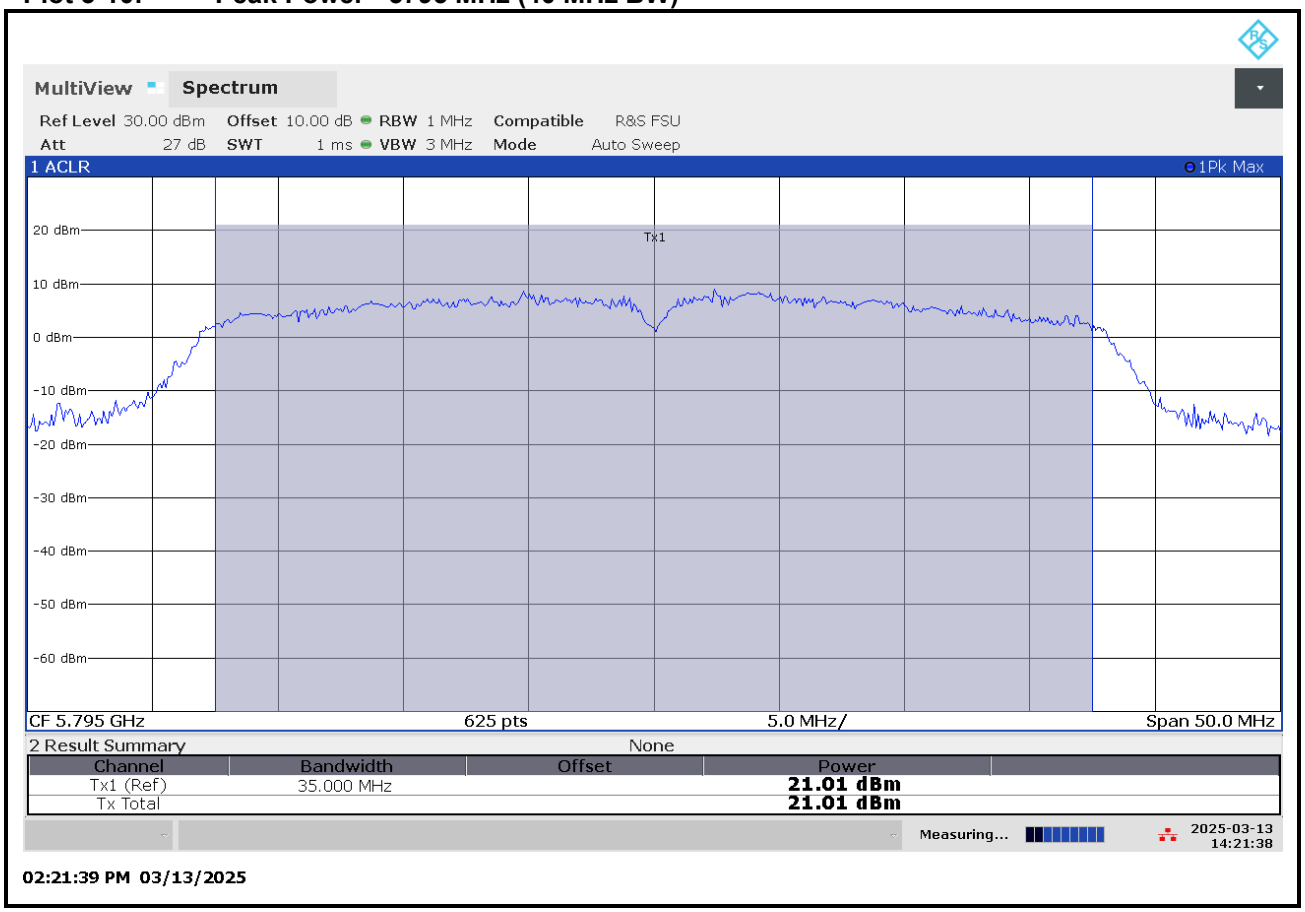
Plot 3-8: Peak Power - 5230 MHz (40 MHz BW)



Plot 3-9: Peak Power - 5755 MHz (40 MHz BW)



Plot 3-10: Peak Power - 5795 MHz (40 MHz BW)



Measurement uncertainty: ±0.5 dB. This measurement uncertainty is an expanded uncertainty at the 95% confidence level, with a coverage factor k=2.

Results: Pass

Test Personnel:

Daniel W. Baltzell		March 13, 2025
Test Engineer	Signature	Date of Test

4 Compliance with the Band Edge – FCC 15.407(b)(7)

4.1 Band Edge Test Procedure

The transmitter output was connected to its appropriate antenna. Corrected measurements at 1 MHz integrated peak (100 kHz RBW/300 kHz VBW) and 1 MHz integrated average (100 MHz RBW/300 kHz VBW) were taken within the restricted band to demonstrate compliance.

Table 4-1: Band Edge Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901773	Rohde & Schwarz	FSW50	Analyzer	101021	05/30/2027

4.2 Restricted Band Edge Test Results

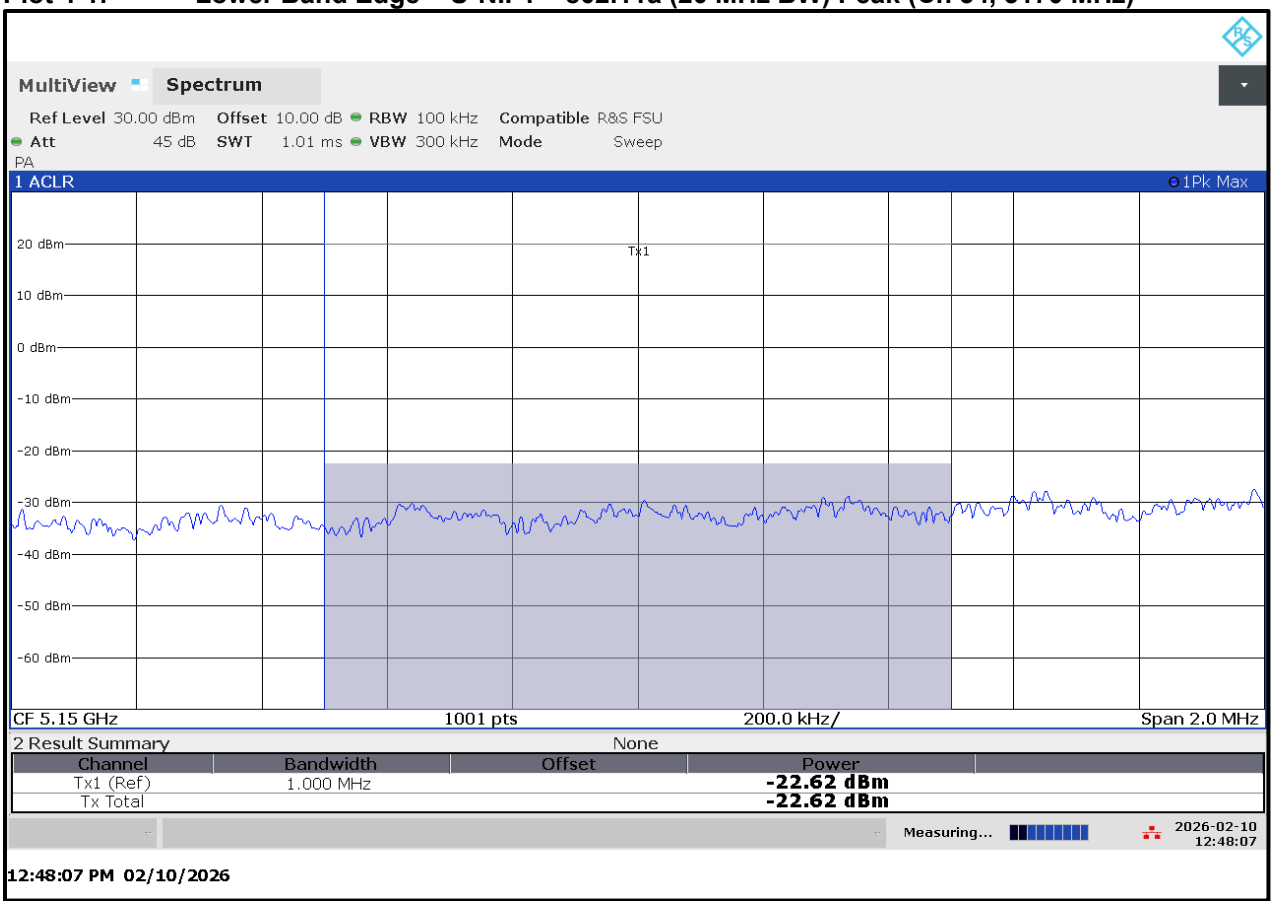
Table 4-2: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Pressure (kPa)
February 6, 2026	24.5	24	99.4
February 9, 2026	20.3	17	100.5
February 10, 2026	22.2	19	100.5

Conversion of dBm to dBµV/m at 3 m: dBµV/m = dBm + 104.7 – (20 * LOG(3m)) = dBm + 95.2

4.1 Band Edge Plots

Plot 4-1: Lower Band Edge – U-NII-1 – 802.11a (20 MHz BW) Peak (Ch 34, 5170 MHz)



Plot 4-2: Lower Band Edge – U-NII-1 – 802.11a (20 MHz BW) Average (Ch 34, 5170 MHz)

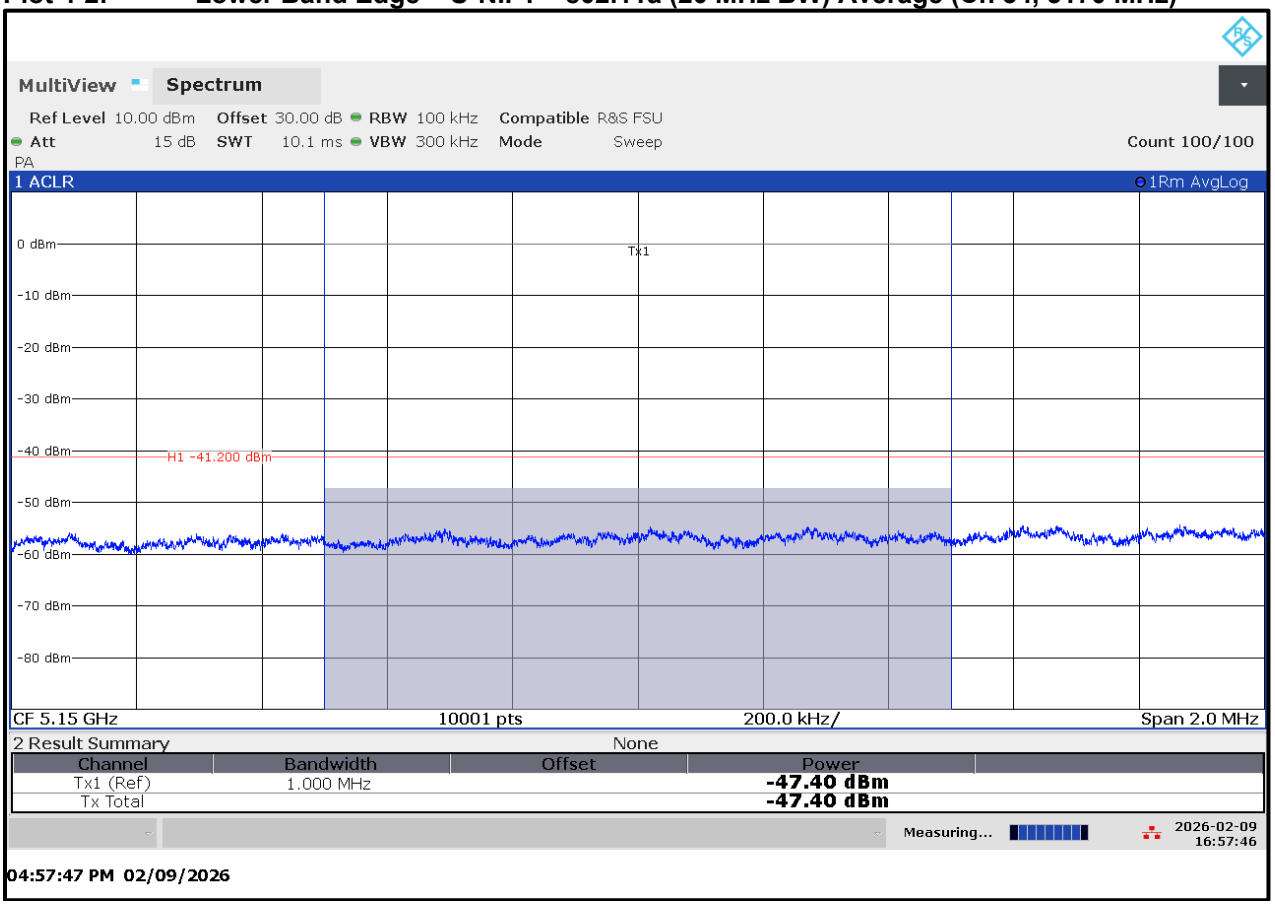
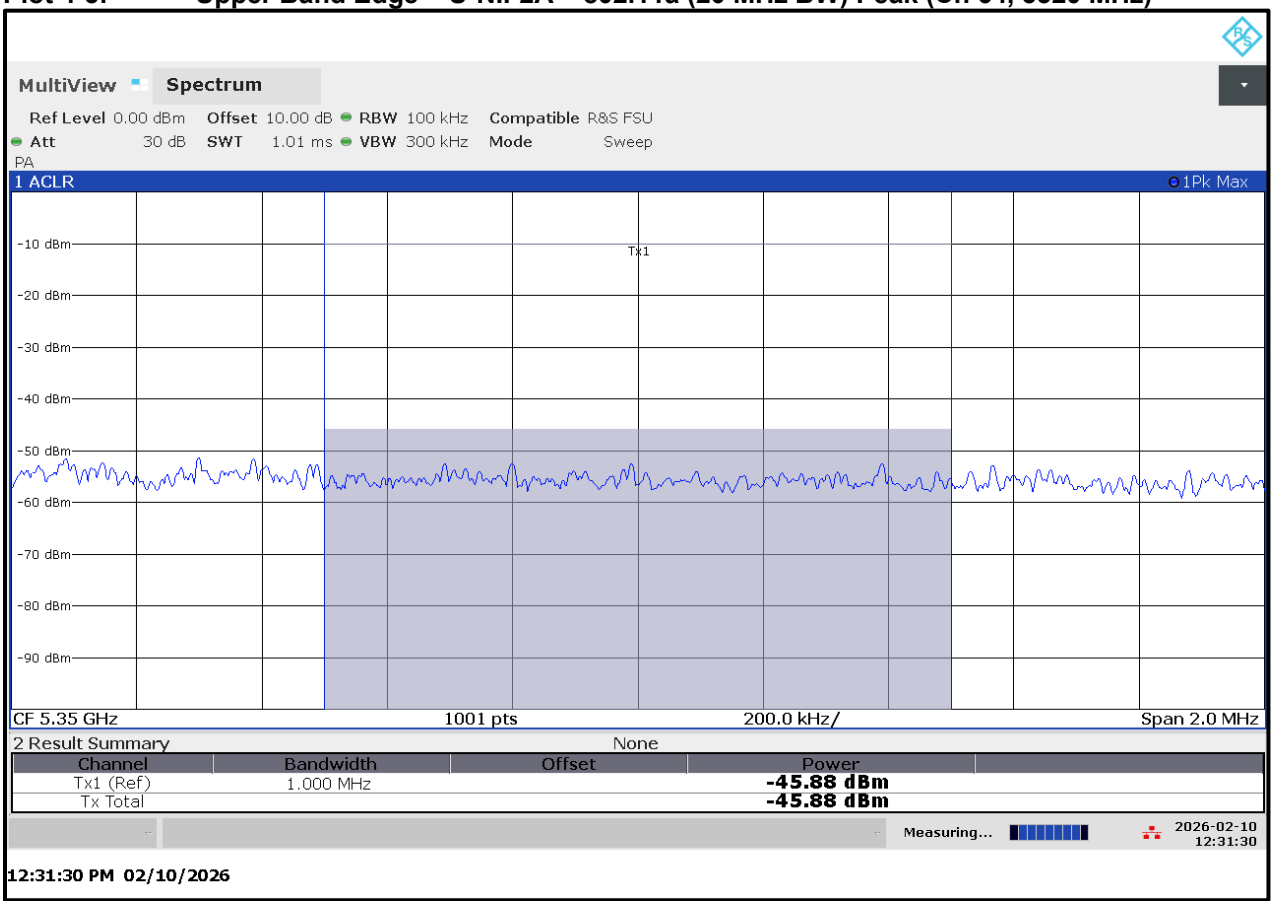


Table 4-3: Lower Band Edge – U-NII-1 – 802.11a (20 MHz BW)

Frequency (MHz)	Detector	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150	Peak	-22.6	72.6	74.0	-1.4
5150	RMS	-47.4	47.8	54.0	-6.2

Plot 4-3: Upper Band Edge – U-NII-2A – 802.11a (20 MHz BW) Peak (Ch 64, 5320 MHz)



Plot 4-4: Upper Band Edge – U-NII-1 – 802.11a (20 MHz BW) Average

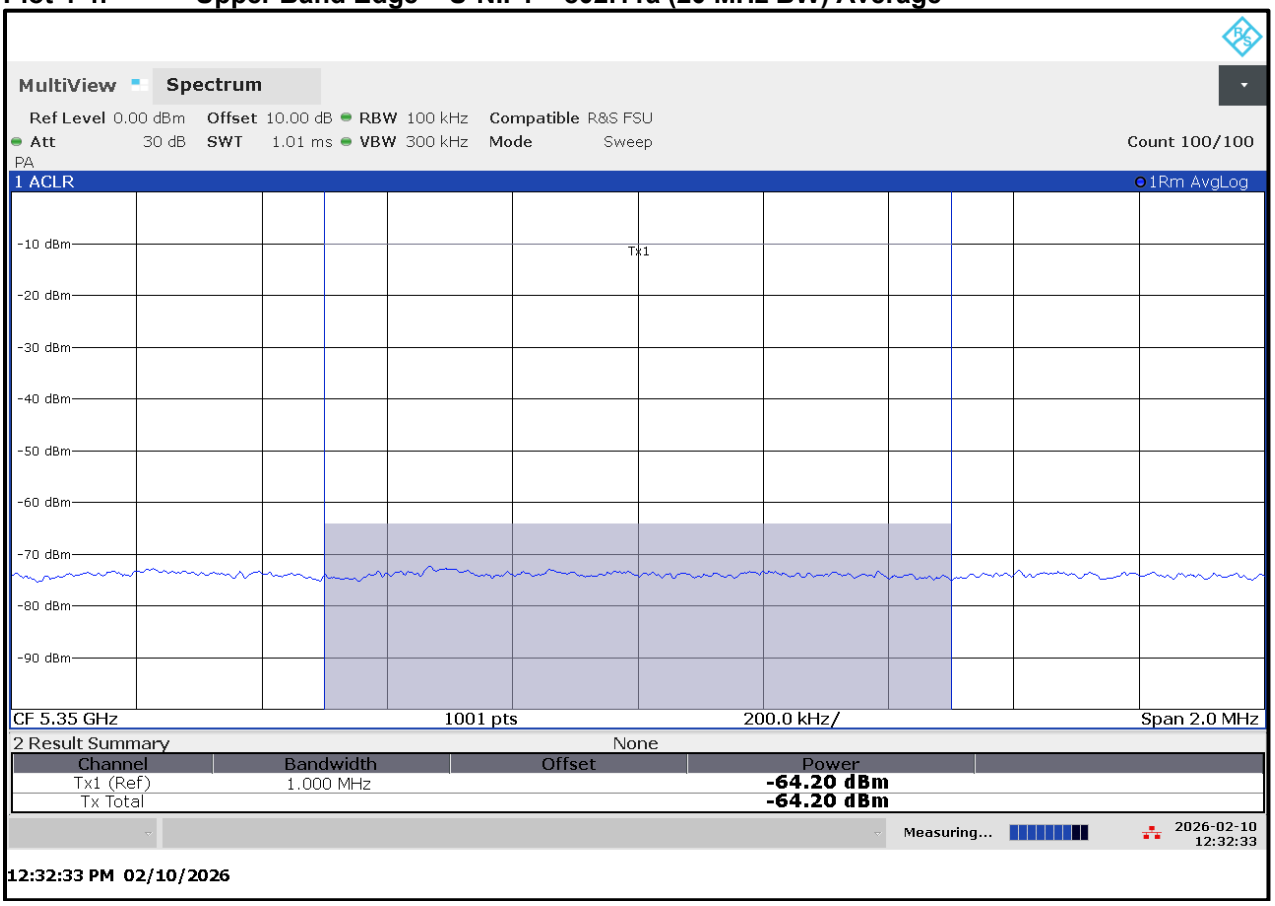
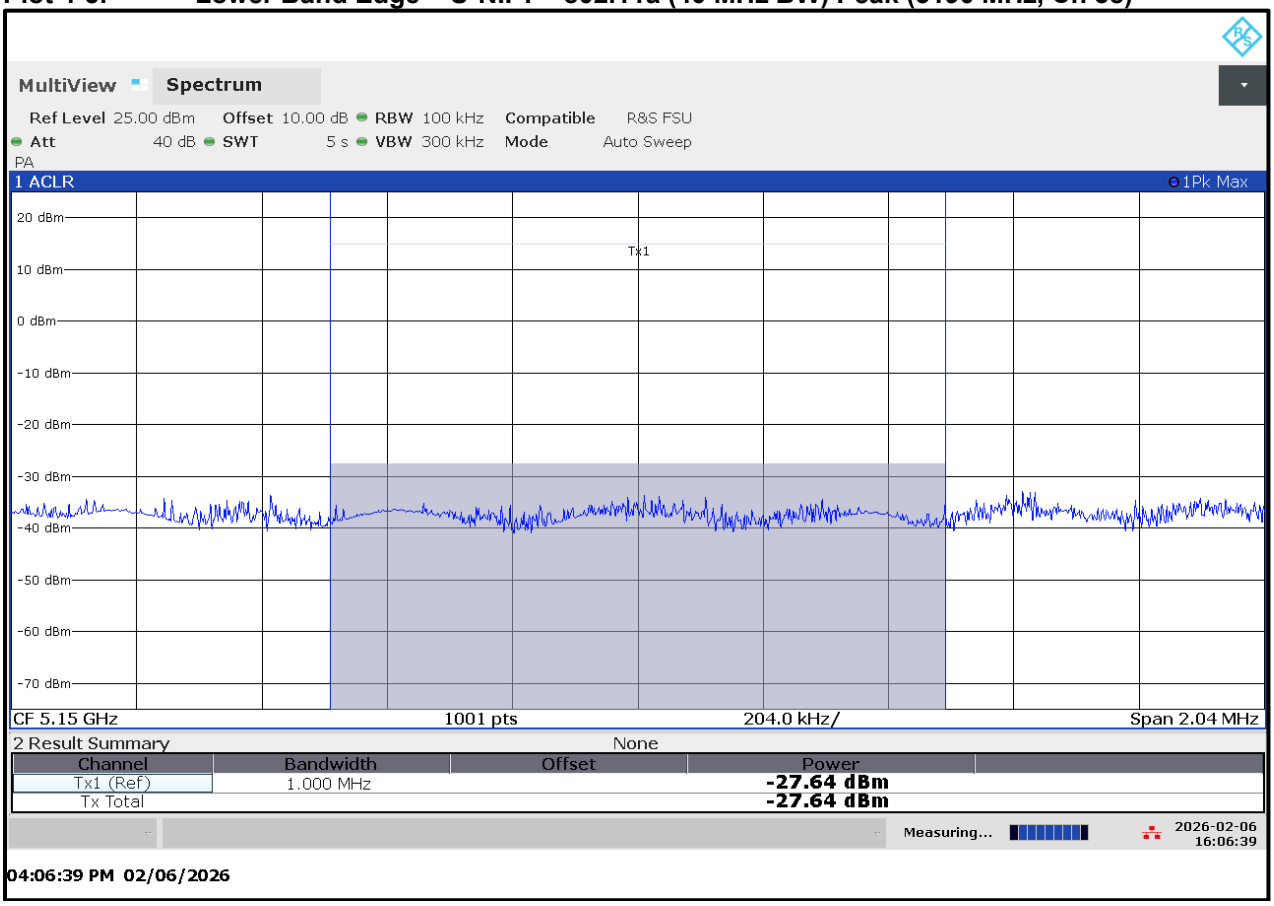


Table 4-4: Upper Band Edge - U-NII 1 – 802.11a (20 MHz BW)

Frequency (MHz)	Detector	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5350	Peak	-45.9	49.3	74.0	-24.7
5350	RMS	-64.2	31.0	54.0	-23.0

Plot 4-5: Lower Band Edge – U-NII 1 – 802.11a (40 MHz BW) Peak (5190 MHz, Ch 38)



Plot 4-6: Lower Band Edge – U-NII 1 – 802.11a (40 MHz BW) RMS (5190 MHz, Ch 38)

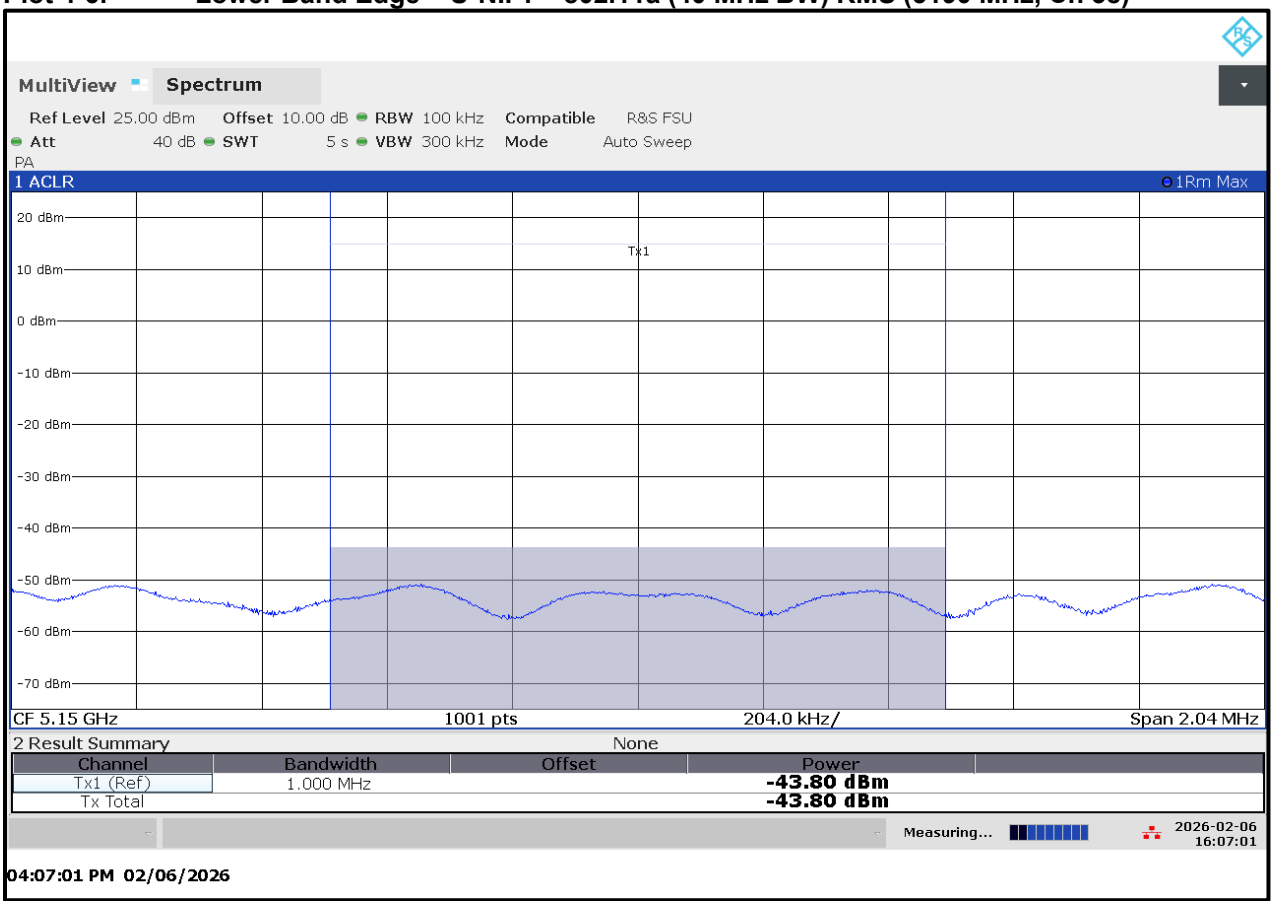
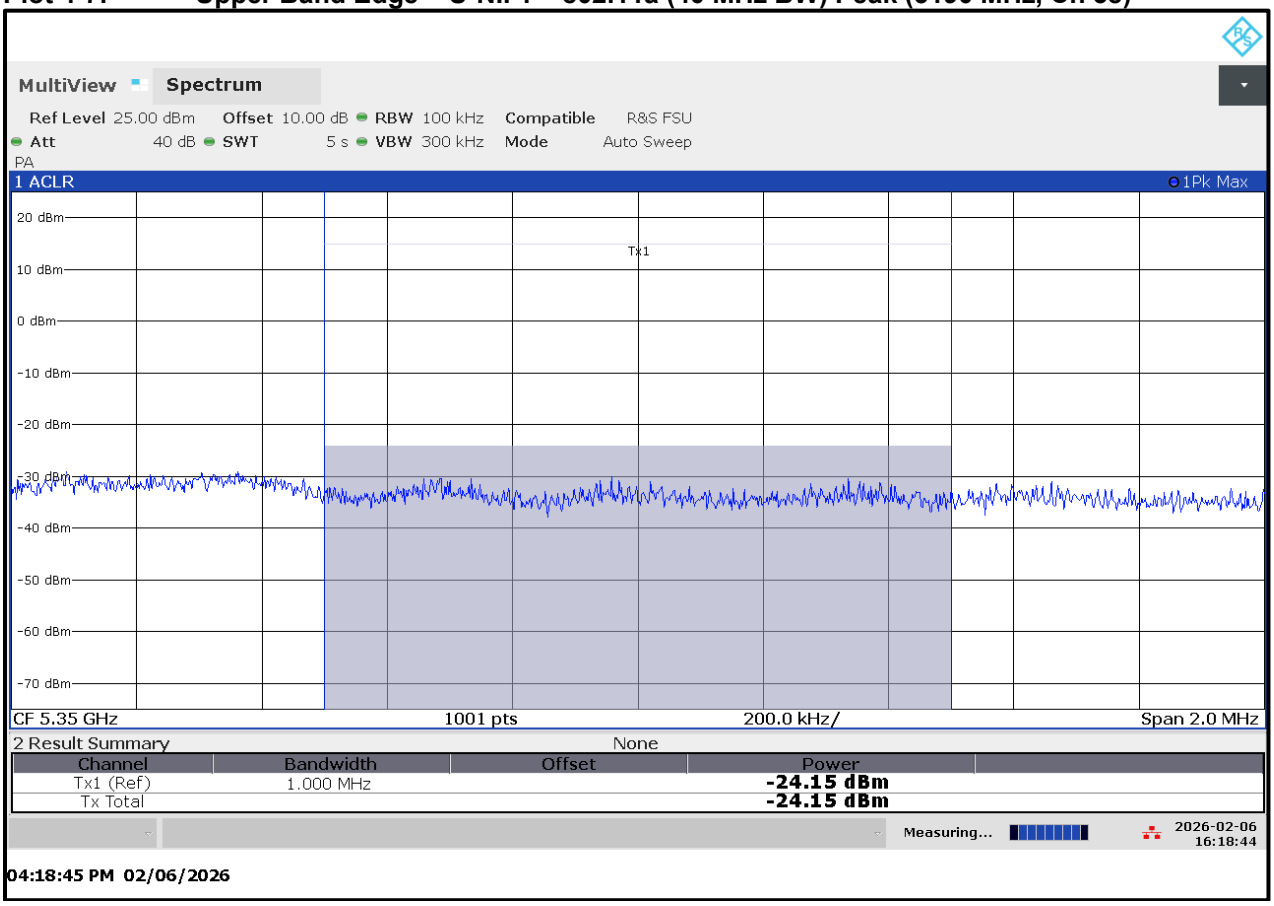


Table 4-5: Lower Band Edge – U-NII 1 – 802.11a (40 MHz BW)

Frequency (MHz)	Detector	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150	Peak	-27.6	67.7	74.0	-6.3
5150	RMS	-43.8	51.5	54.0	-2.5

Plot 4-7: Upper Band Edge – U-NII 1 – 802.11a (40 MHz BW) Peak (5190 MHz, Ch 38)



Plot 4-8: Upper Band Edge – U-NII 1 – 802.11a (40 MHz BW) Average (5310 MHz, Ch 62)

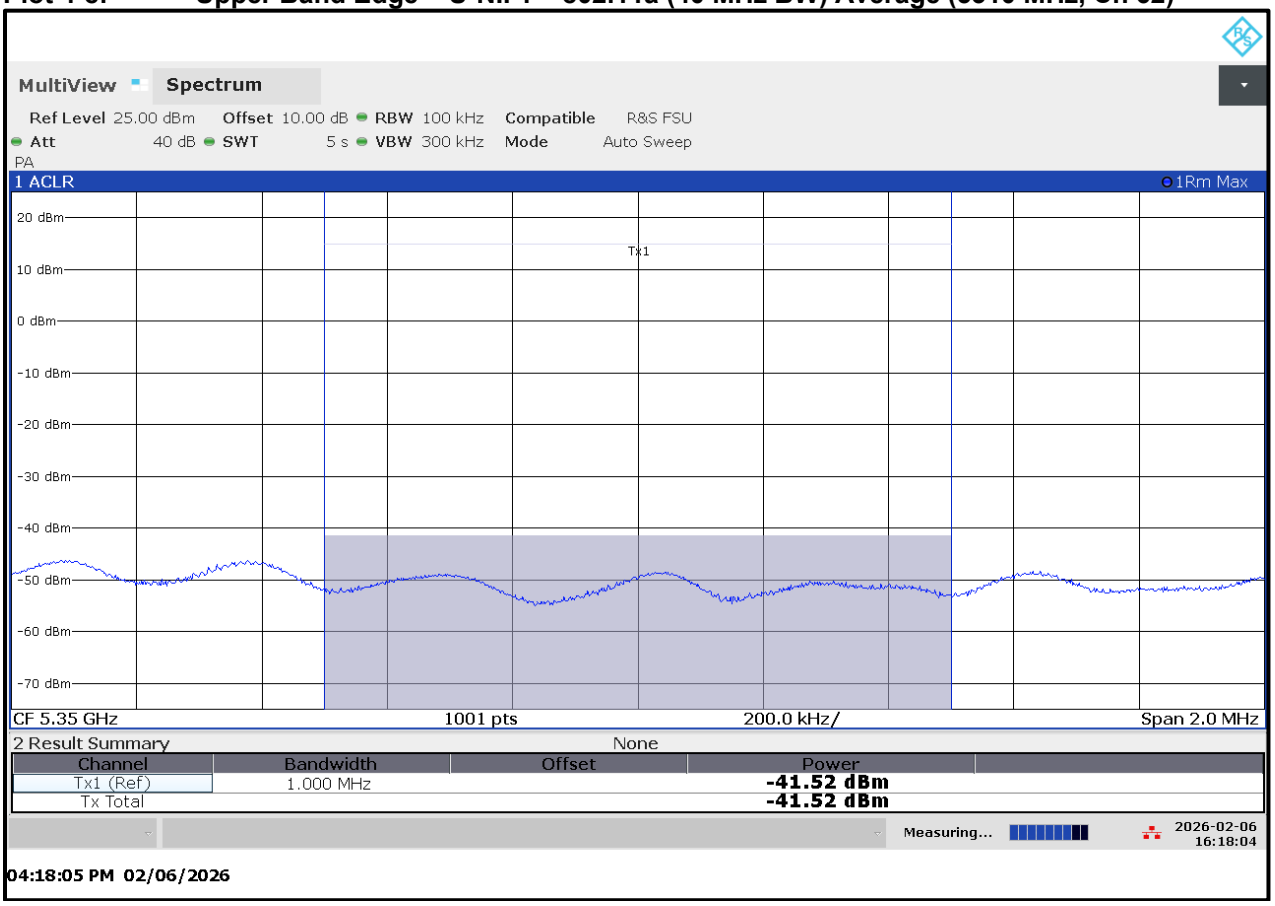
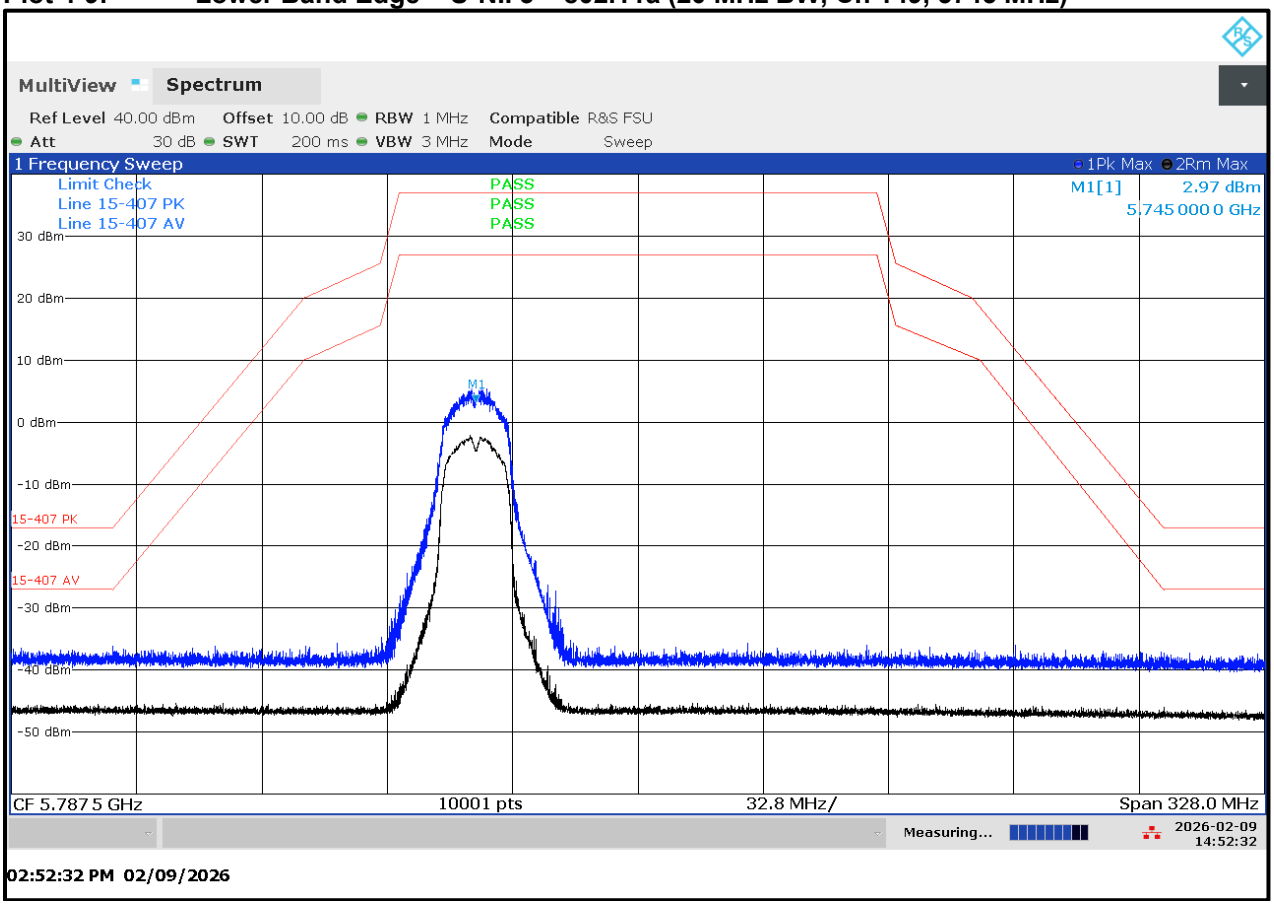


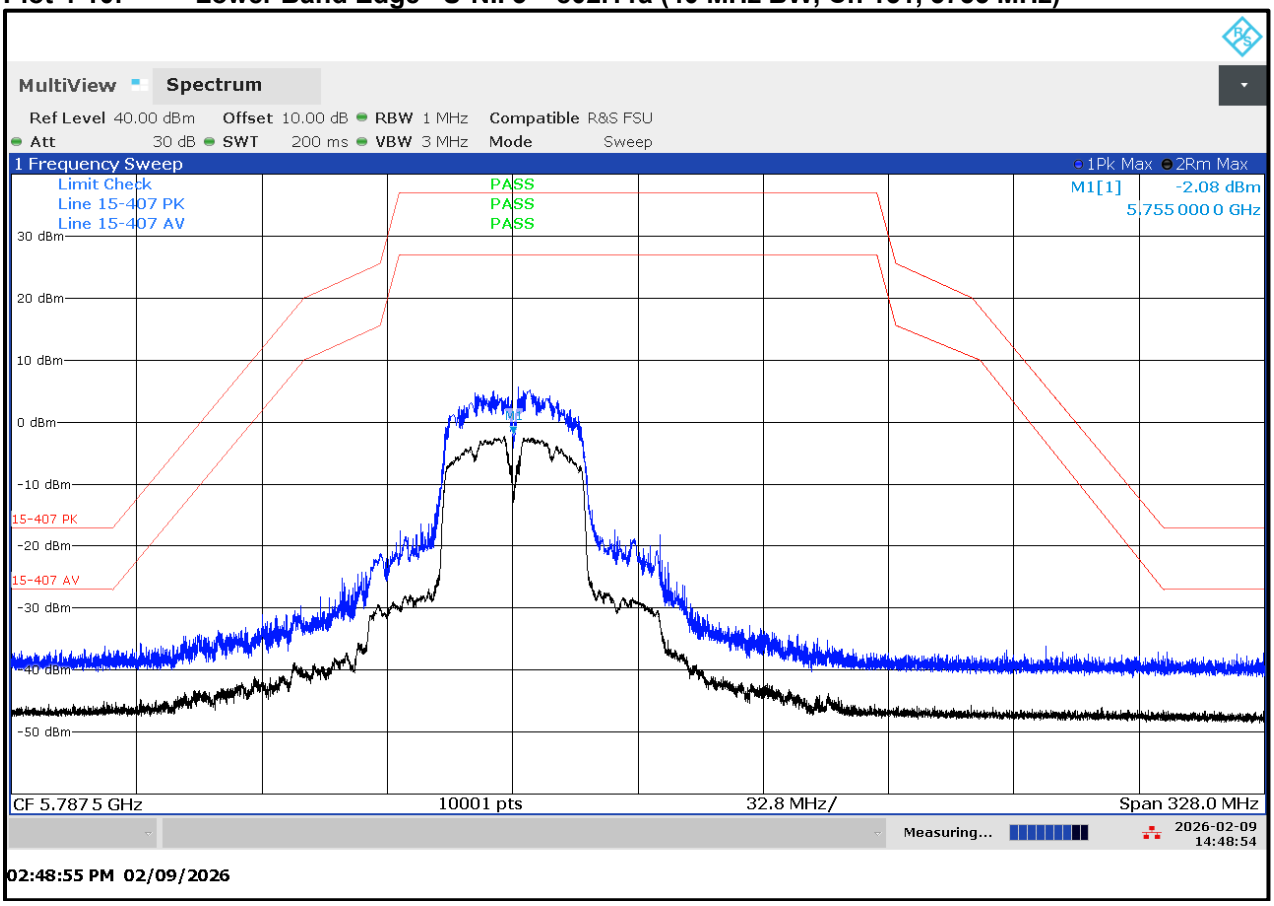
Table 4-6: Upper Band Edge - U-NII 1 – 802.11a (40 MHz BW)

Frequency (MHz)	Detector	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5350	Peak	-24.2	71.1	74.0	-2.9
5350	RMS	-41.5	53.8	54.0	-0.2

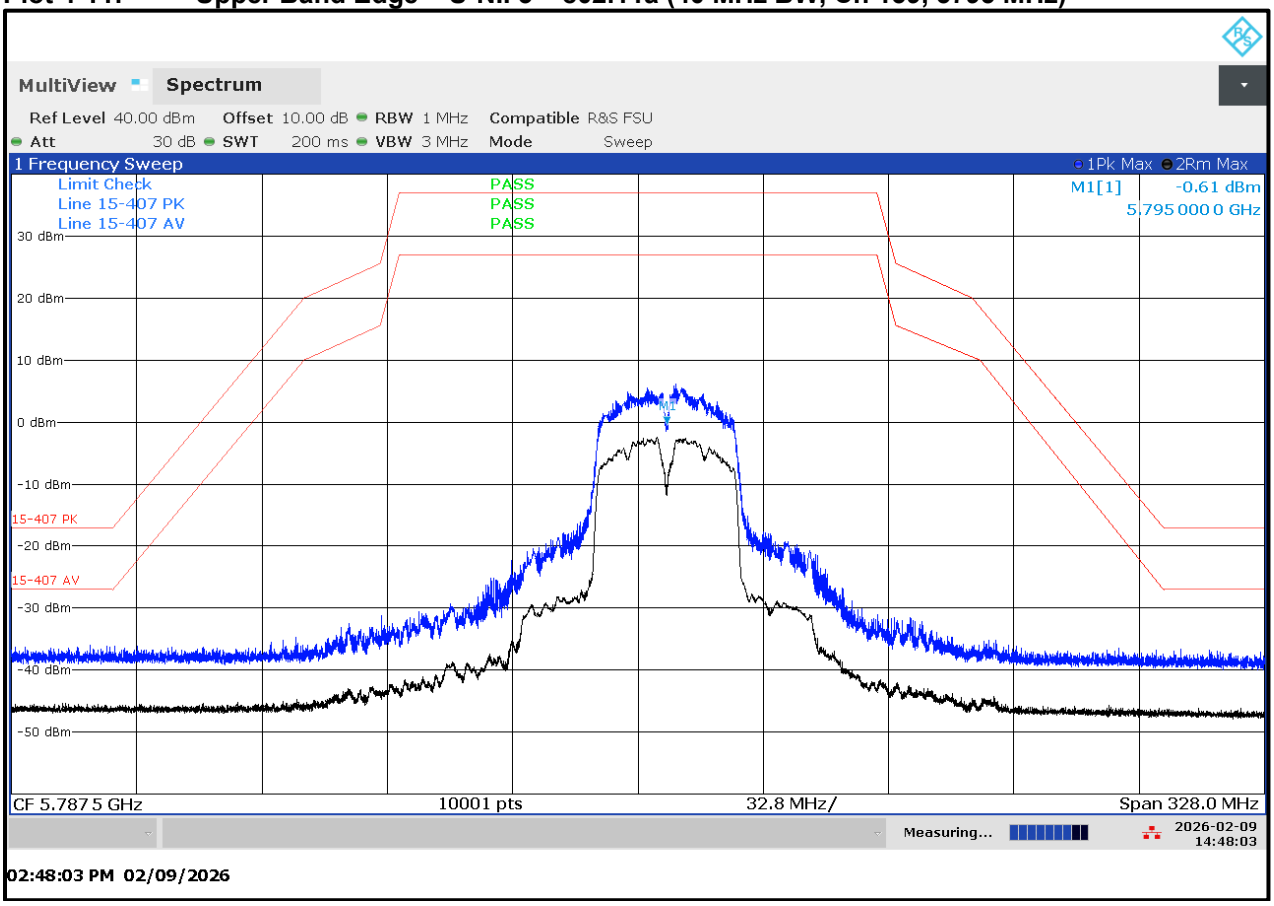
Plot 4-9: Lower Band Edge – U-NII 3 – 802.11a (20 MHz BW, Ch 149, 5745 MHz)



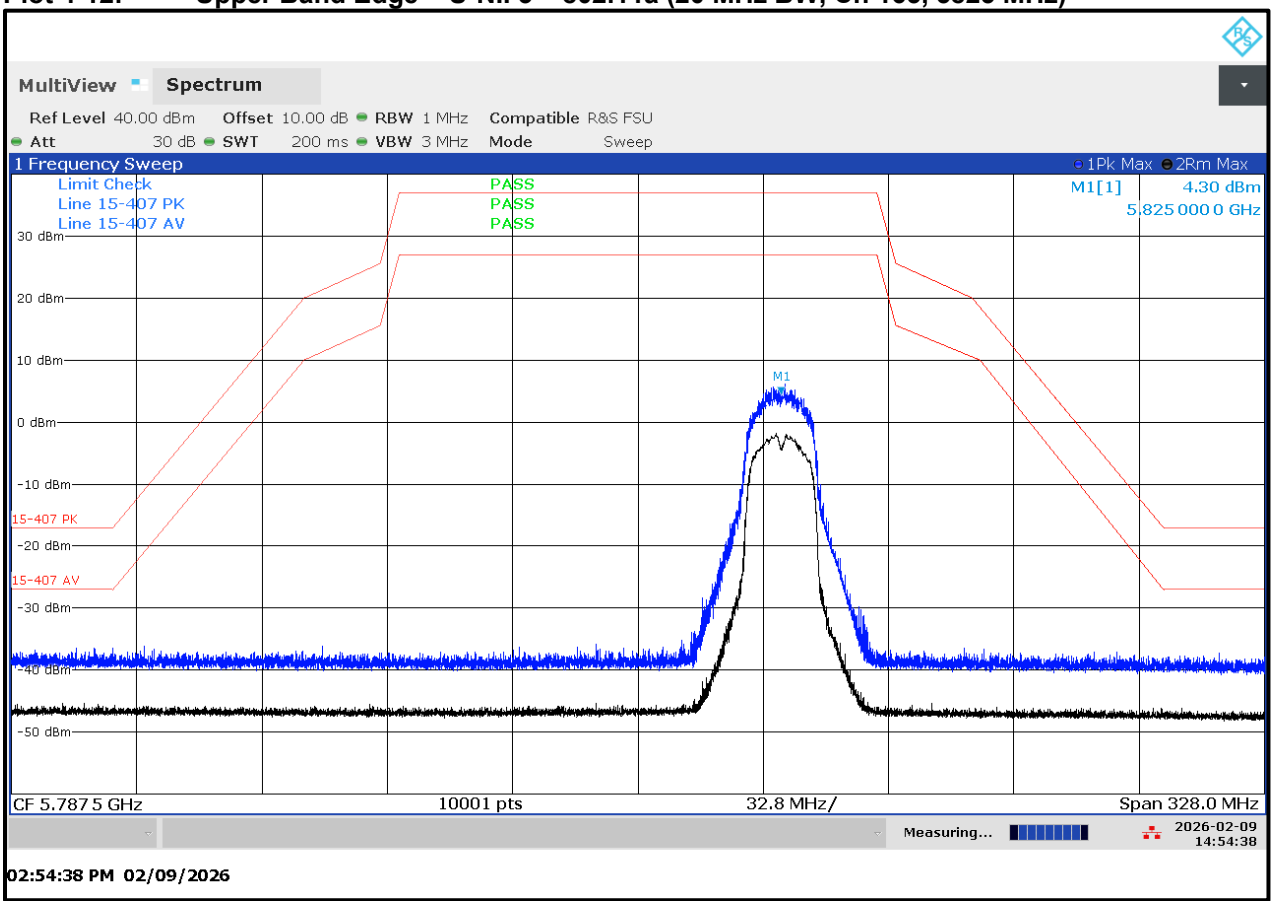
Plot 4-10: Lower Band Edge –U-NII 3 – 802.11a (40 MHz BW, Ch 151, 5755 MHz)



Plot 4-11: Upper Band Edge – U-NII 3 – 802.11a (40 MHz BW, Ch 159, 5795 MHz)



Plot 4-12: Upper Band Edge – U-NII 3 – 802.11a (20 MHz BW, Ch 165, 5825 MHz)



Measurement uncertainty: ±0.5 dB. This measurement uncertainty is an expanded uncertainty at the 95% confidence level, with a coverage factor k=2.

Results: Pass

Test Personnel:

Daniel W. Baltzell	Daniel W. Baltzell	February 6-10, 2026
Test Engineer	Signature	Dates of Test

5 Antenna Conducted Spurious Emissions – FCC 15.407(b)(6)

5.1 Antenna Conducted Spurious Emissions Test Procedures

Antenna-conducted spurious emissions per FCC 15.407(b)(6) were measured at the EUT antenna port using a 50-ohm spectrum analyzer with the resolution bandwidth set to 1 MHz and the video bandwidth set to>3x RBW.

5.2 Antenna Conducted Spurious Emissions Test Results

Table 5-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Pressure (kPa)
February 10, 2026	22.2	19	100.5

Table 5-2: Antenna Conducted Spurious Emissions Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901773	Rohde & Schwarz	FSW50	Analyzer	101021	05/30/2027

Plot 5-1: Antenna Conducted Spurious Emissions - Peak – 5170 MHz

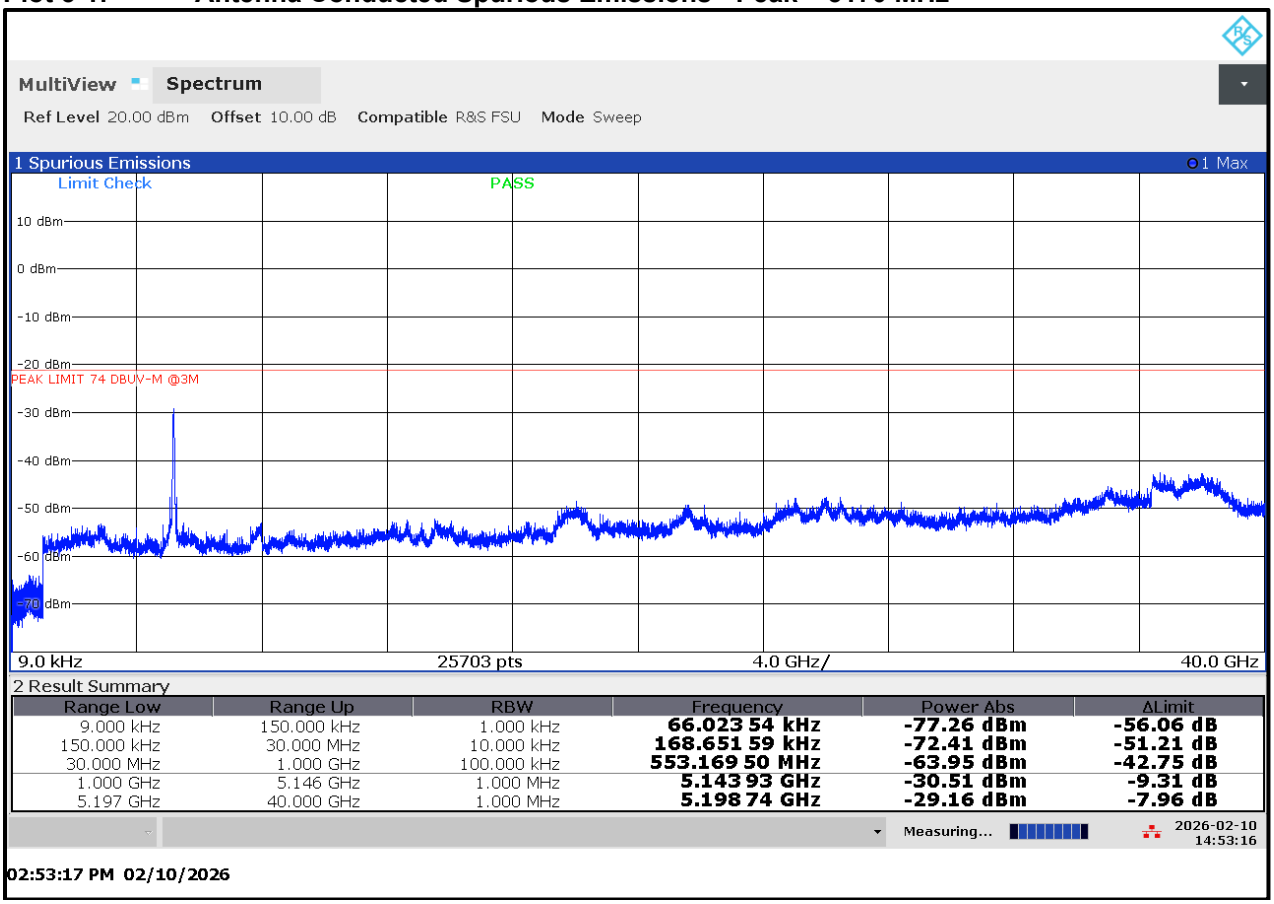


Table 5-3: Antenna Conducted Spurious Emissions – Peak - 5170 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
10340.0	-53.2	42.0	74.0	-32.0
15510.0	-55.3	39.9	74.0	-34.1
20680.0	-53.2	42.0	74.0	-32.0
25850.0	-49.4	45.8	74.0	-28.2
31020.0	-50.6	44.6	74.0	-29.4
36190.0	-46.9	48.3	74.0	-25.7

Plot 5-2: Antenna Conducted Spurious Emissions - Average – 5170 MHz

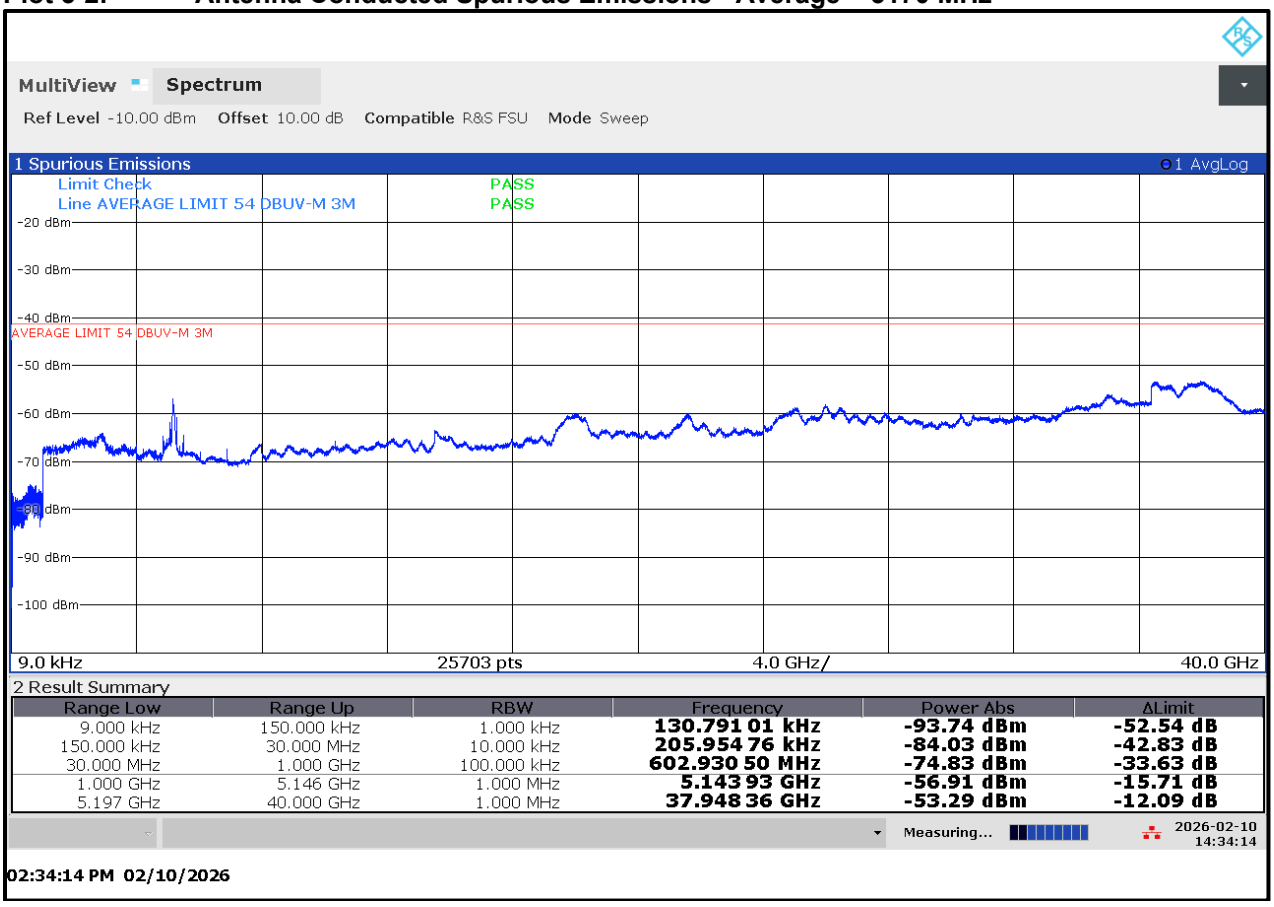


Table 5-4: Antenna Conducted Spurious - Average – 5170 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)
10340.0	-66.0	29.2	54.0	-24.8
15510.0	-66.8	28.4	54.0	-25.6
20680.0	-64.2	31.0	54.0	-23.0
25850.0	-60.6	34.6	54.0	-19.4
31020.0	-61.5	33.7	54.0	-20.3
36190.0	-57.6	37.6	54.0	-16.4

Plot 5-3: Antenna Conducted Spurious Emissions - Peak – 5200 MHz

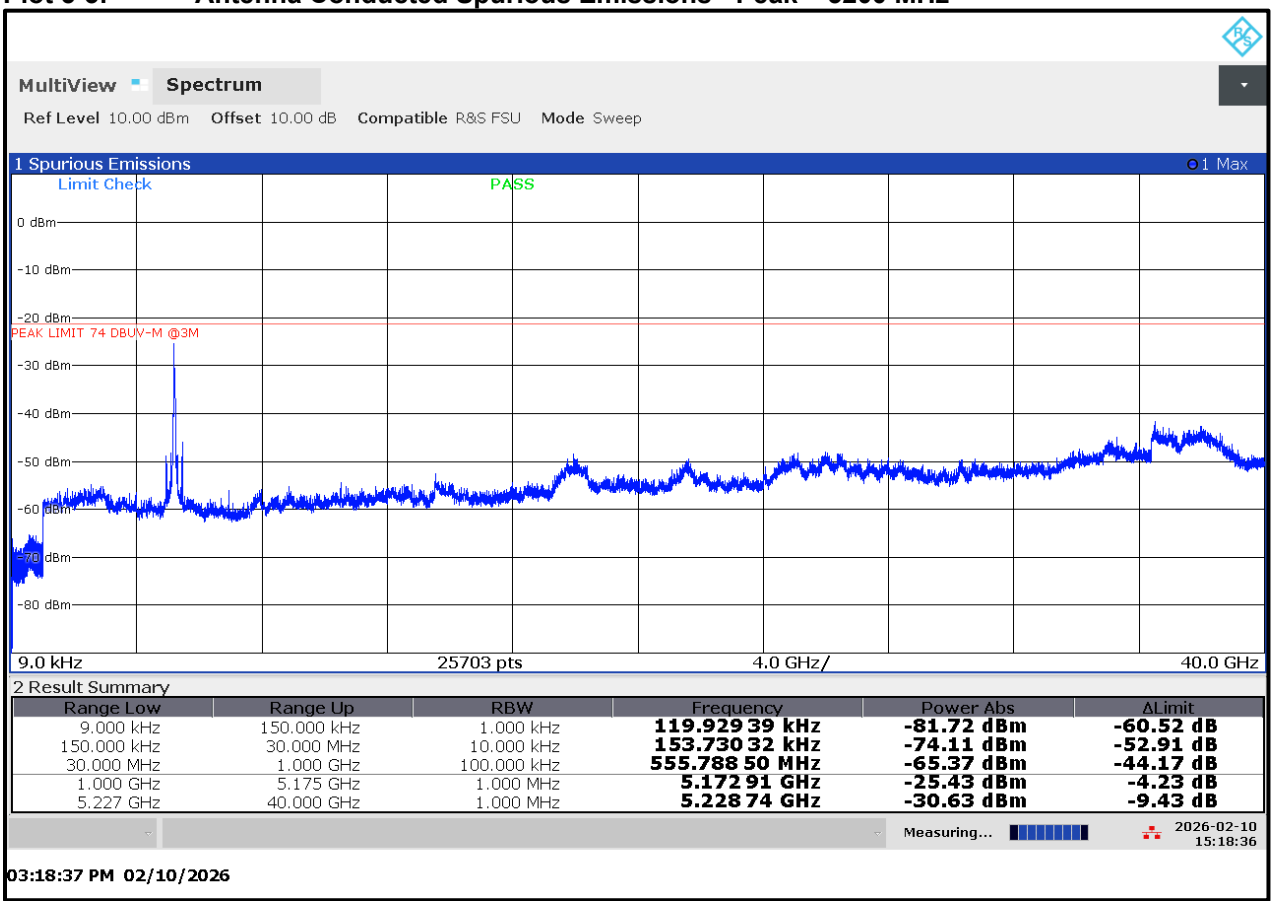


Table 5-5: Peak Antenna Conducted Spurious Emissions – 5200 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
10400.0	-55.5	39.7	74.0	-34.3
15600.0	-57.4	37.8	74.0	-36.2
20800.0	-54.3	40.9	74.0	-33.1
26000.0	-47.6	47.6	74.0	-26.4
31200.0	-51.3	43.9	74.0	-30.1
36400.0	-43.4	51.8	74.0	-22.2

Plot 5-4: Antenna Conducted Spurious Emissions - Average – 5200 MHz

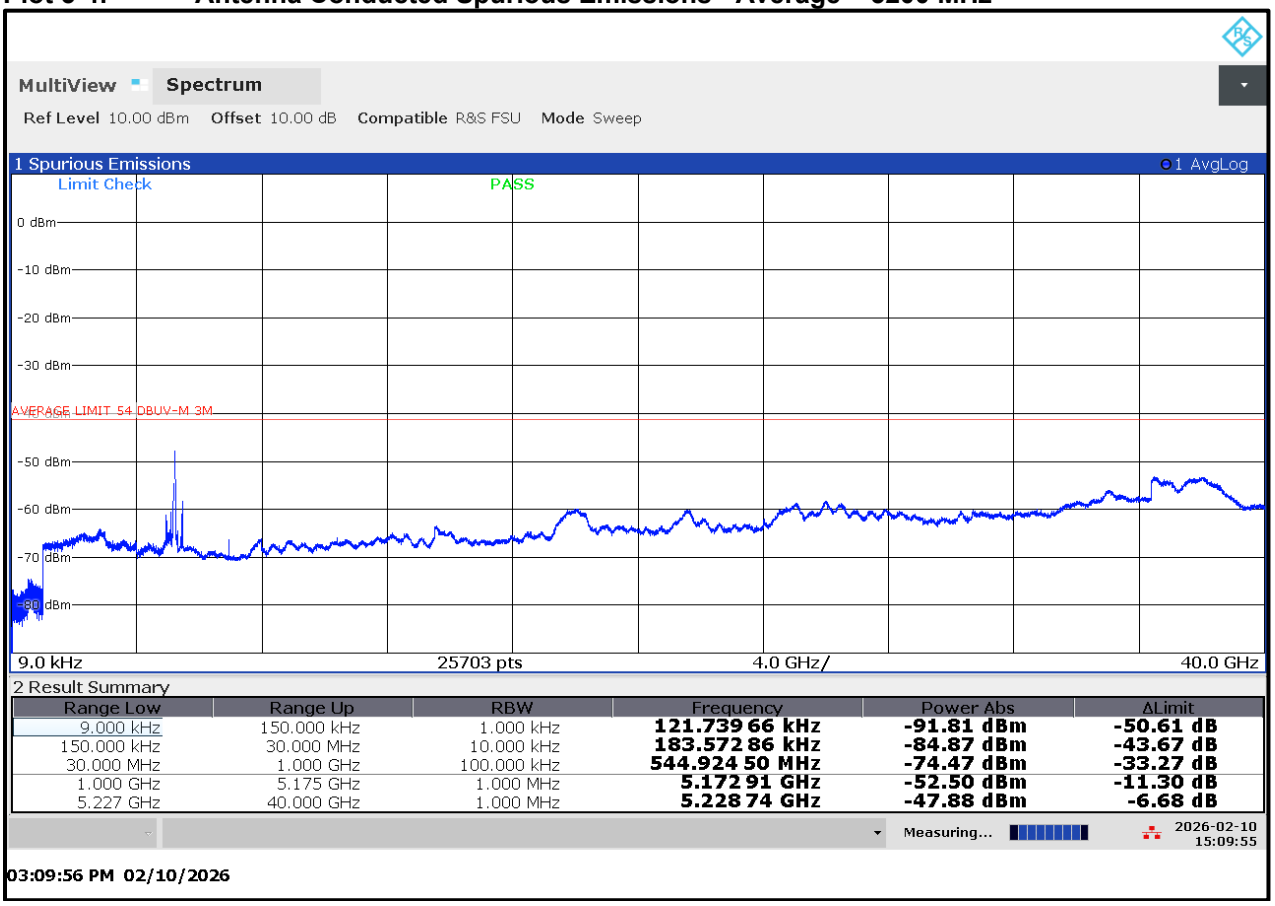


Table 5-6: Conducted Antenna Spurious - Average – 5200 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
10400.0	-66.2	29.0	54.0	-25.0
15600.0	-66.7	28.5	54.0	-25.5
20800.0	-63.9	31.3	54.0	-22.7
26000.0	-58.6	36.6	54.0	-17.4
31200.0	-61.8	33.4	54.0	-20.6
36400.0	-54.2	41.0	54.0	-13.0

Plot 5-5: Antenna Conducted Spurious Emissions - Peak – 5240 MHz

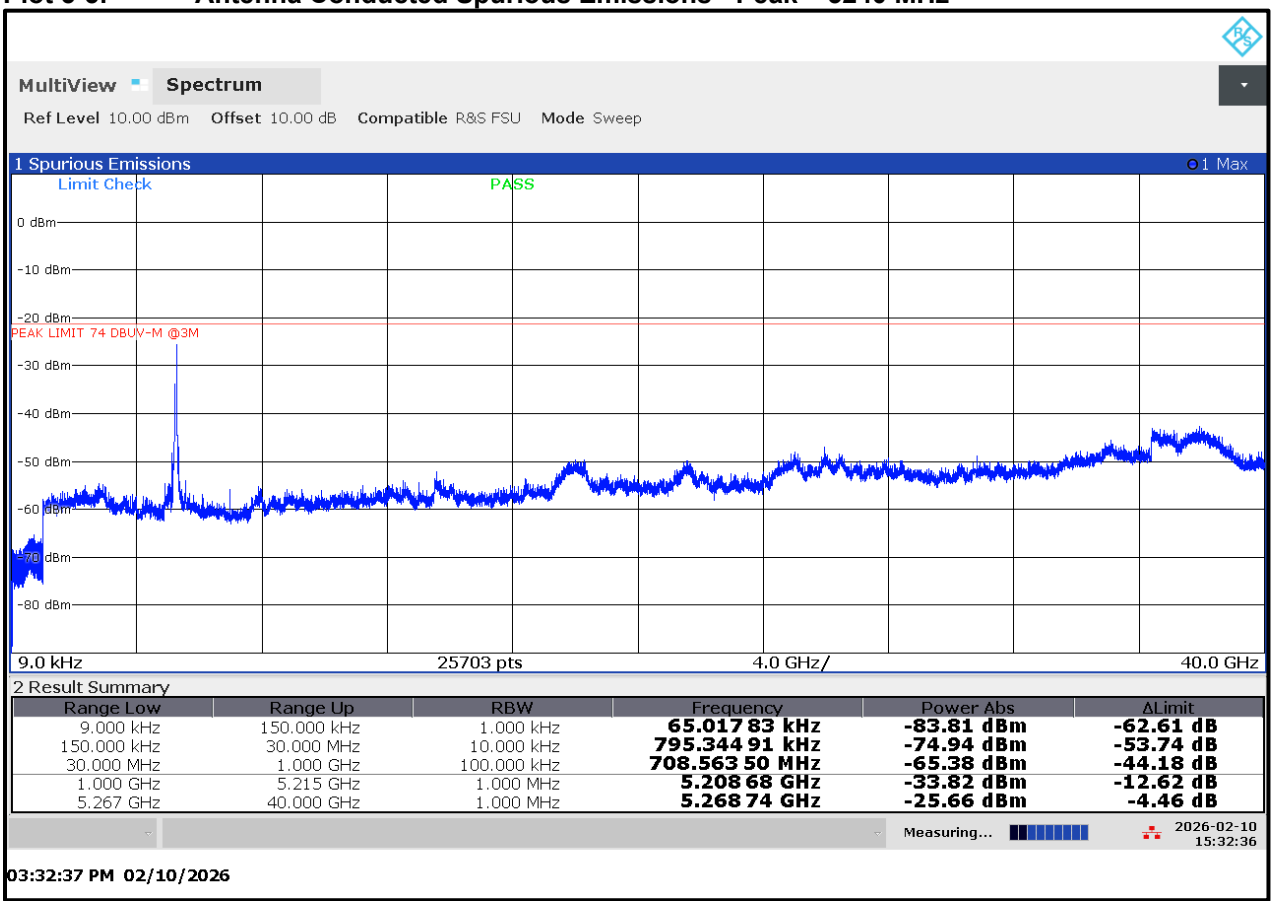


Table 5-7: Antenna Conducted Spurious Emissions – Peak - 5240 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
10480.0	-57.4	37.8	74.0	-36.2
15720.0	-57.2	38.0	74.0	-36.0
20960.0	-54.5	40.7	74.0	-33.3
26200.0	-50.9	44.3	74.0	-29.7
31440.0	-50.9	44.3	74.0	-29.7
36680.0	-44.7	50.5	74.0	-23.5

Plot 5-6: Antenna Conducted Spurious Emissions - Average – 5240 MHz

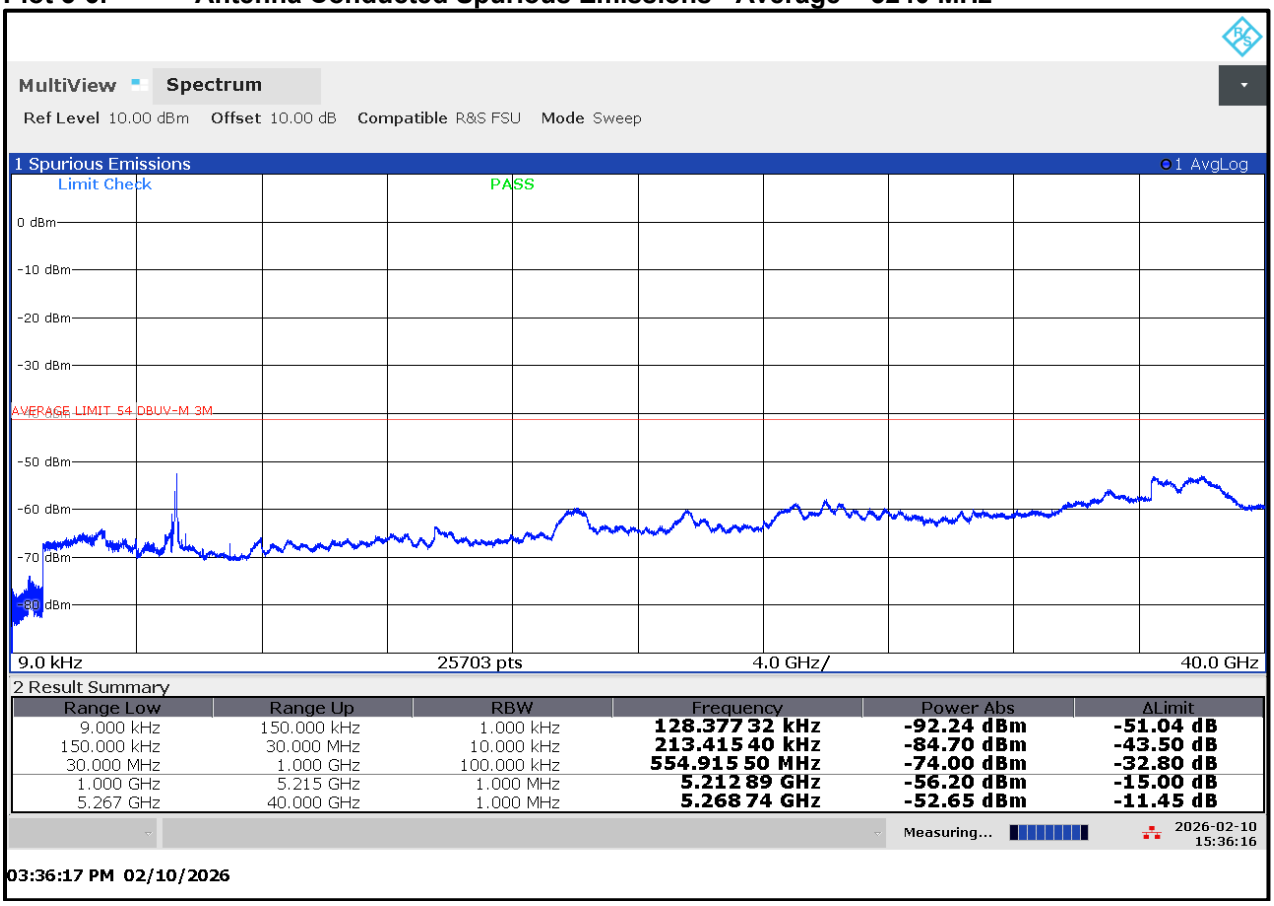


Table 5-8: Antenna Conducted Spurious Emissions – Average – 5240 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
10480.0	-66.6	28.6	54.0	-25.4
15720.0	-66.6	28.6	54.0	-25.4
20960.0	-64.7	30.5	54.0	-23.5
26200.0	-60.2	35.0	54.0	-19.0
31440.0	-61.6	33.6	54.0	-20.4
36680.0	-54.6	40.6	54.0	-13.4

Plot 5-7: Antenna Conducted Spurious Emissions - Peak – 5745 MHz

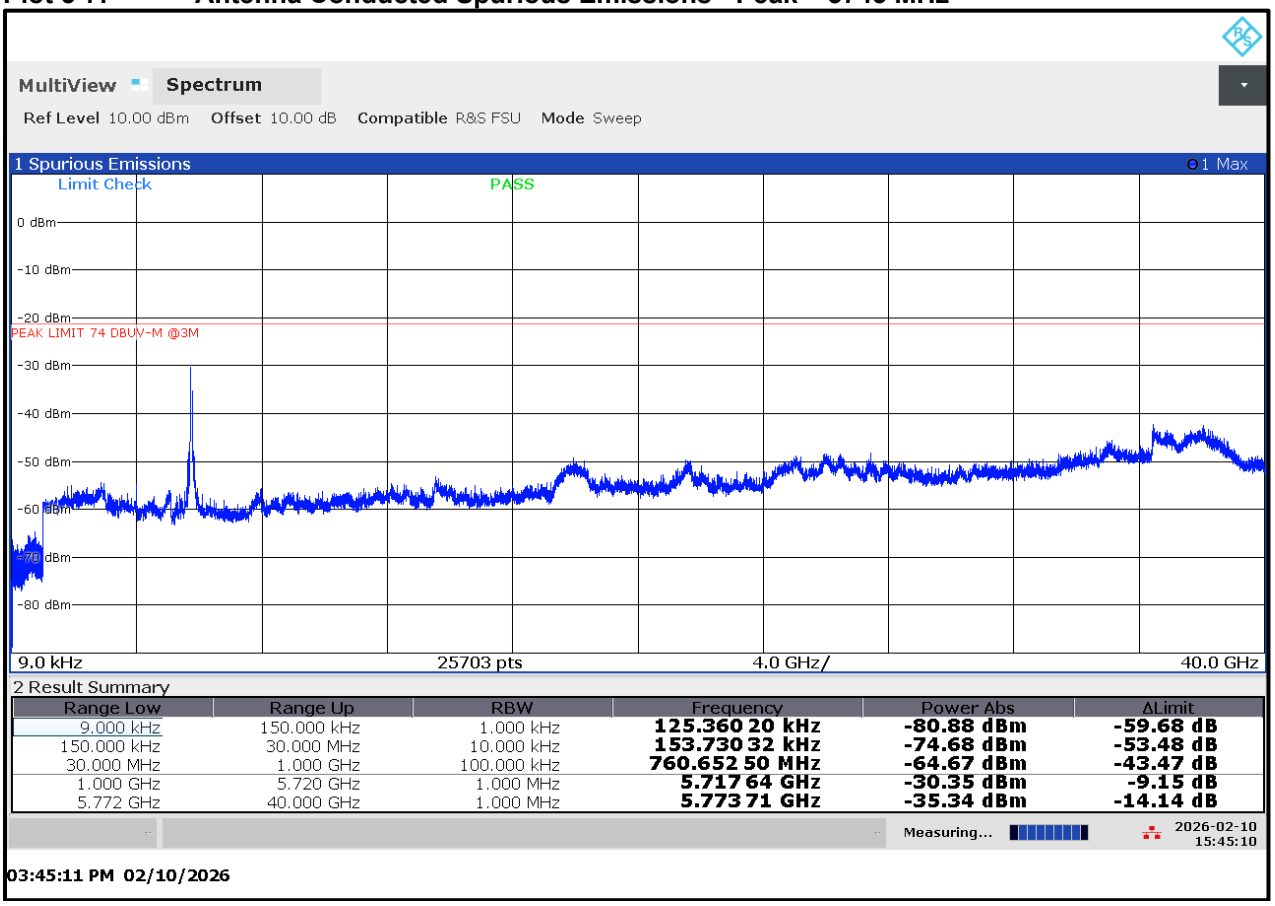


Table 5-9: Antenna Conducted Spurious Emissions – Peak - 5745 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
11490	-57.8	37.4	74.0	-36.6
17235	-56.8	38.4	74.0	-35.6
22980	-53.6	41.6	74.0	-32.4
28725	-51.9	43.3	74.0	-30.7
34470	-48.8	46.4	74.0	-27.6

Plot 5-8: Antenna Conducted Spurious Emissions - Average – 5745 MHz

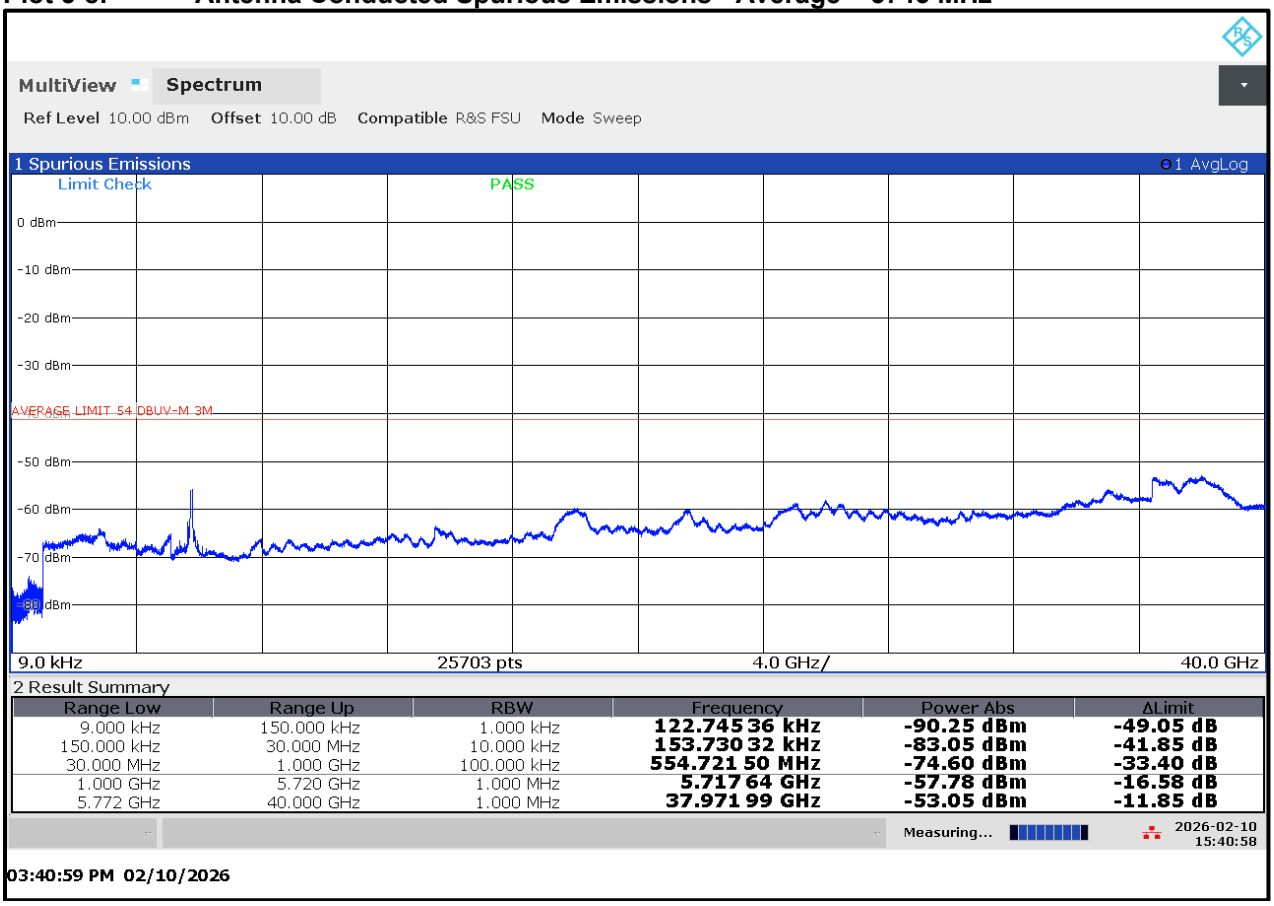


Table 5-10: Antenna Conducted Spurious Emissions – Average - 5745 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
11490	-66.6	28.6	54.0	-25.4
17235	-66.1	29.1	54.0	-24.9
22980	-64.1	31.1	54.0	-22.9
28725	-62.2	33.0	54.0	-21.0
34470	-58.3	36.9	54.0	-17.1

Plot 5-9: Antenna Conducted Spurious Emissions - Peak – 5785 MHz

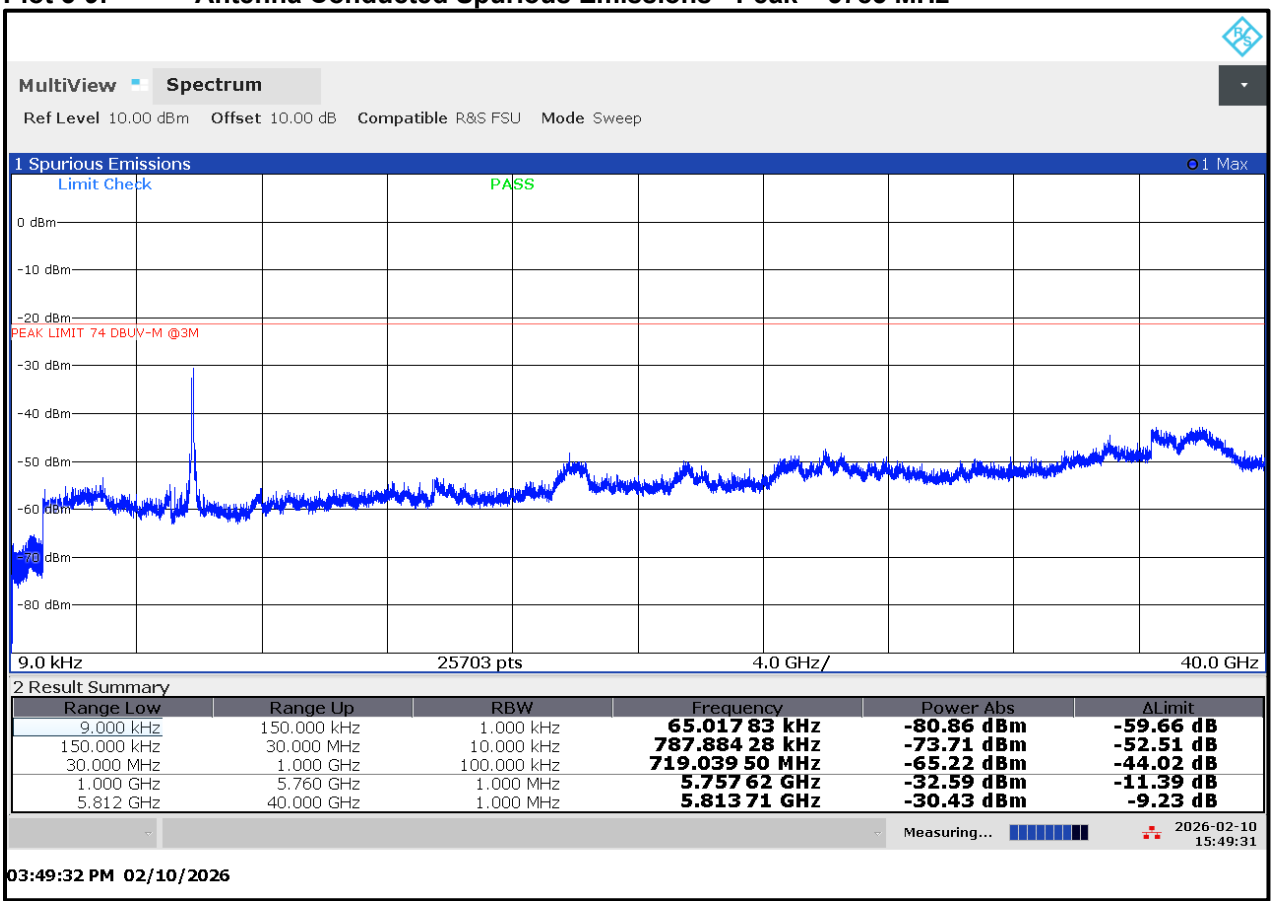


Table 5-11: Antenna Conducted Spurious Emissions – Peak – 5785 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
11570.0	-57.2	38.0	74.0	-36.0
17355.0	-54.7	40.5	74.0	-33.5
23140.0	-53.4	41.8	74.0	-32.2
28925.0	-51.4	43.8	74.0	-30.2
34710.0	-48.4	46.8	74.0	-27.2

Plot 5-10: Antenna Conducted Spurious Emissions - Average – 5785 MHz

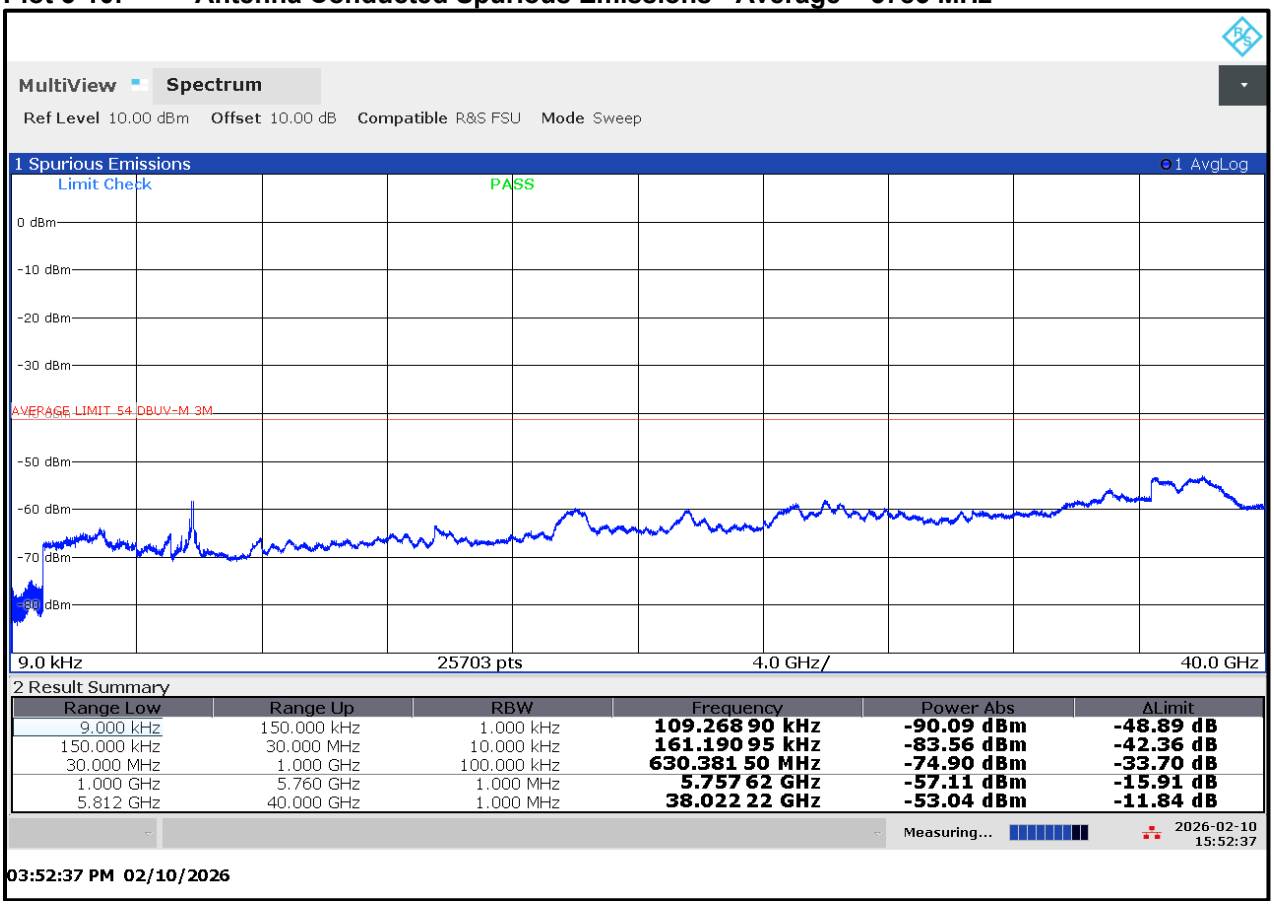


Table 5-12: Antenna Conducted Spurious Emissions – Average - 5785 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
11570.0	-66.7	28.5	54.0	-25.5
17355.0	-64.2	31.0	54.0	-23.0
23140.0	-63.7	31.5	54.0	-22.5
28925.0	-61.9	33.3	54.0	-20.7
34710.0	-58.3	36.9	54.0	-17.1

Plot 5-11: Antenna Conducted Spurious Emissions - Peak – 5825 MHz

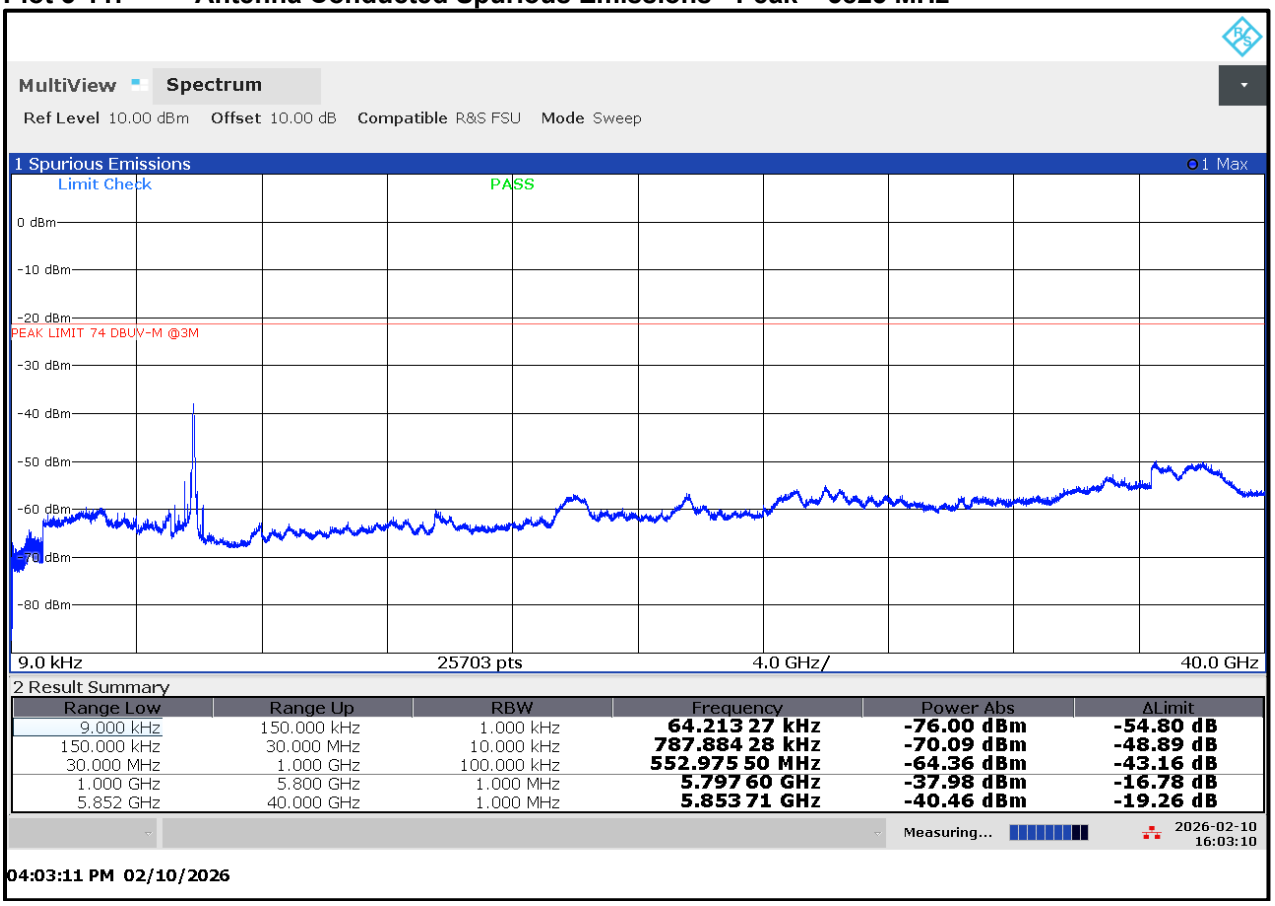


Table 5-13: Antenna Conducted Spurious Emissions – Peak - 5825 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
11650.0	-63.8	31.4	74.0	-42.6
17475.0	-60.2	35.0	74.0	-39.0
23300.0	-61.5	33.7	74.0	-40.3
29125.0	-59.8	35.4	74.0	-38.6
34950.0	-53.8	41.4	74.0	-32.6

Plot 5-12: Antenna Conducted Spurious Emissions - Average – 5825 MHz

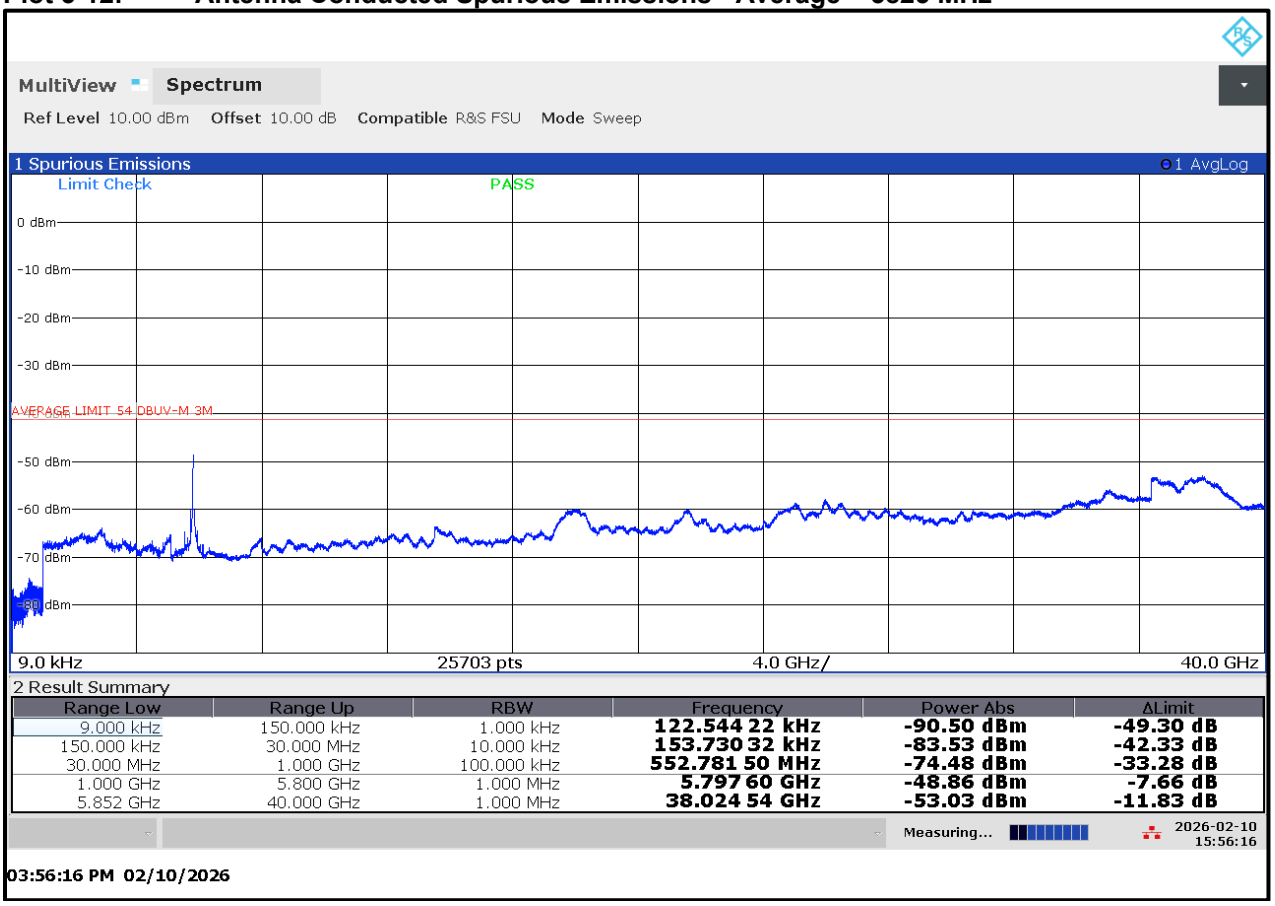


Table 5-14: Antenna Conducted Spurious Emissions – Average - 5825 MHz

Frequency (MHz)	Measured Level (dBm)	Field Strength Conversion (dBµV/m)	Limit (dBµV/m)	Margin (dB)
11650.0	-66.0	29.2	54.0	-24.8
17475.0	-63.1	32.1	54.0	-21.9
23300.0	-63.4	31.8	54.0	-22.2
29125.0	-62.9	32.3	54.0	-21.7
34950.0	-56.2	39.0	54.0	-15.0

Measurement uncertainty: ±0.5 dB. This measurement uncertainty is an expanded uncertainty for 95% confidence level received with a coverage factor k=2.

Results: Pass

Test Personnel:

Daniel W. Baltzell		February 10, 2026
Test Engineer	Signature	Date of Test

6 Bandwidths – FCC 15.407(a) and (e)

6.1 Bandwidth Test Procedure

The minimum 6 dB and 99% bandwidths per FCC 15.407(a) and (e) were measured using a 50-ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set at ≥3 x RBW. The device was modulated, (VBW) shall not be smaller than three times the RBW value.

Table 6-1: Bandwidth Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901773	Rohde & Schwarz	FSW50	Analyzer	101021	05/30/2027

6.2 Modulated Bandwidth Test Results

Statement on 6 dB Bandwidth Measurements on Notched Spectra

For modulated emissions exhibiting a spectral notch or local minimum at the channel center frequency, the spectrum analyzer's center-frequency marker may coincide with a point that is not representative of the peak emission level. In such cases, the peak spectral density occurs off-center within the occupied bandwidth.

To ensure accurate determination of the 6 dB bandwidth, the reference level is established relative to the true peak emission level observed within the emission envelope, rather than the center-frequency notch. A horizontal reference line is set at a level 6 dB below the peak emission. The lower and upper −6 dB crossing points are then identified on the spectral skirts using frequency markers. The 6 dB bandwidth is calculated as the frequency separation between these two −6 dB crossing points.

This method ensures that bandwidth measurements remain valid and representative of the actual occupied spectrum for waveforms with notched or spectrally shaped center-frequency characteristics and is consistent with standard regulatory measurement practice.

Table 6-2: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Pressure (kPa)
February 10, 2026	22.2	19	100.5

Table 6-3: Modulated Bandwidth Test Data – U-NII 1 – 802.11a (20 MHz BW)

Channel (#)	Frequency (MHz)	99% Bandwidth (MHz)
34	5170	18.8
40	5200	18.8
48	5240	18.5

Table 6-4: Modulated Bandwidth Test Data – U-NII 3 – 802.11a (20 MHz BW)

Channel (#)	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	15.2	18.1
157	5785	15.3	18.0
165	5825	15.2	17.7

Table 6-5: Modulated Bandwidth Test Data – U-NII 1 – 802.11a (40 MHz BW)

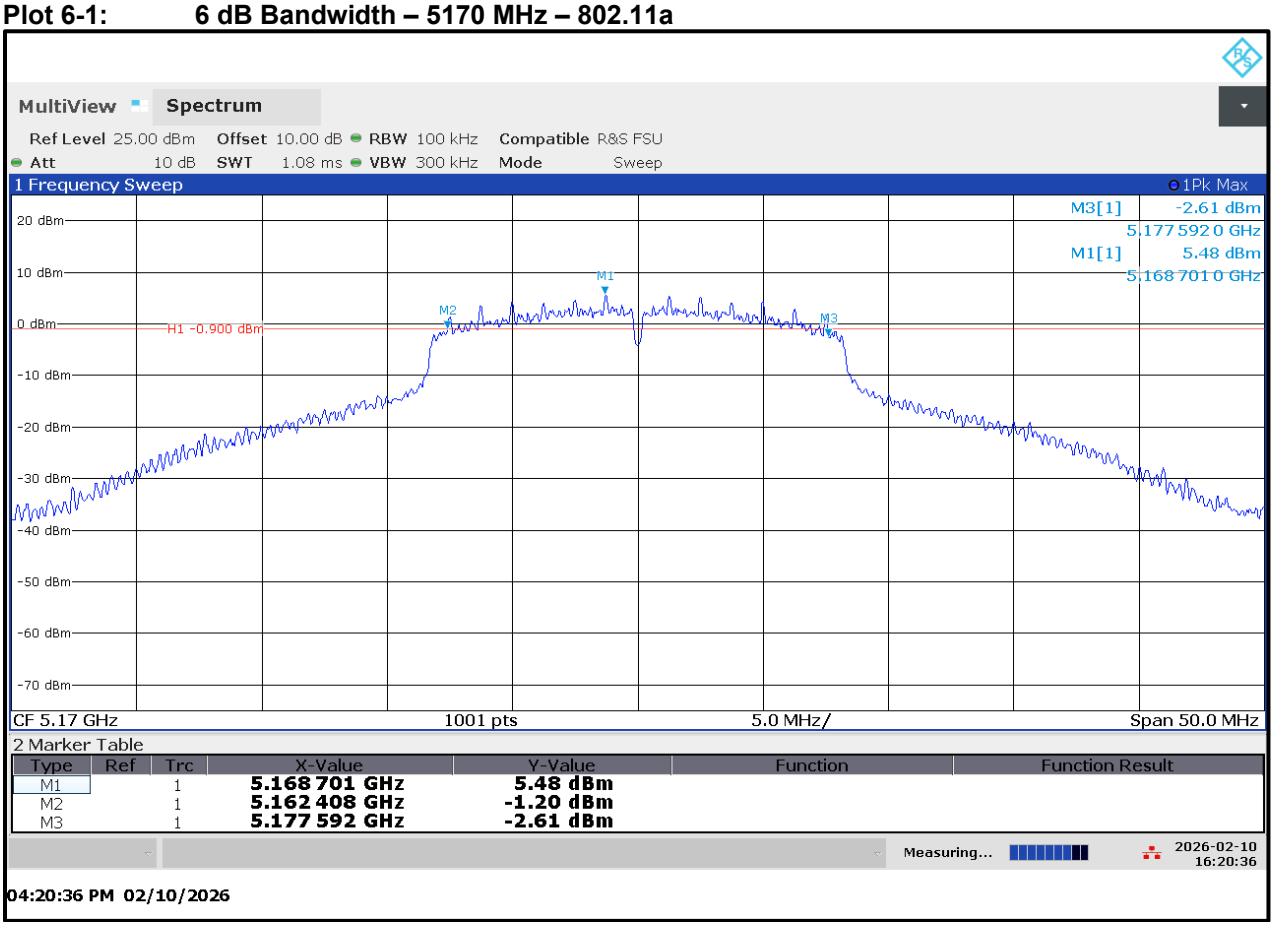
Channel (#)	Frequency (MHz)	99% Bandwidth (MHz)
38	5190	36.2
46	5230	36.1

Table 6-6: Modulated Bandwidth Test Data – U-NII 3 – 802.11a (40 MHz BW)

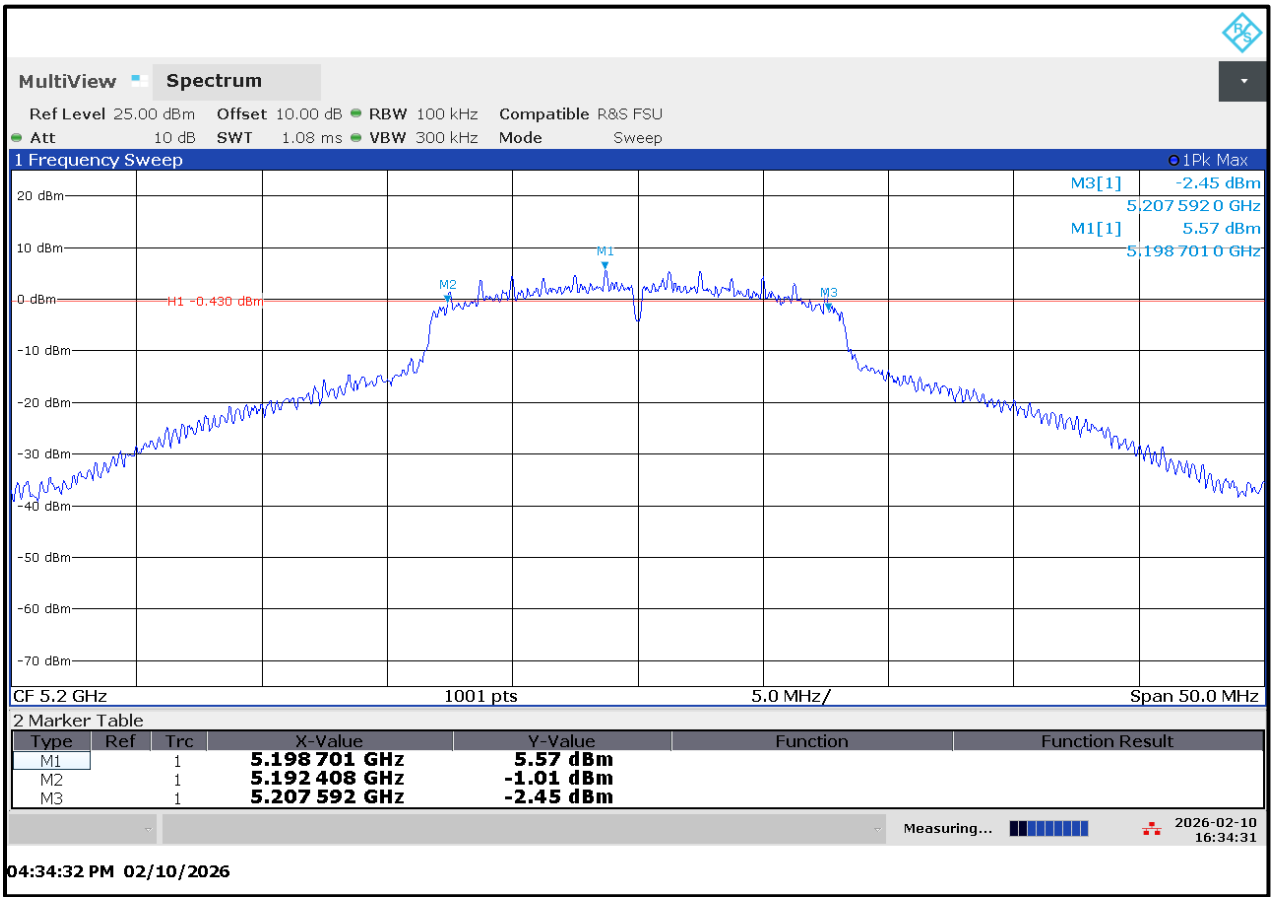
Channel (#)	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.3	36.1
159	5795	35.3	36.1

6.3 20 MHz Bandwidth Plots – U-NII 1

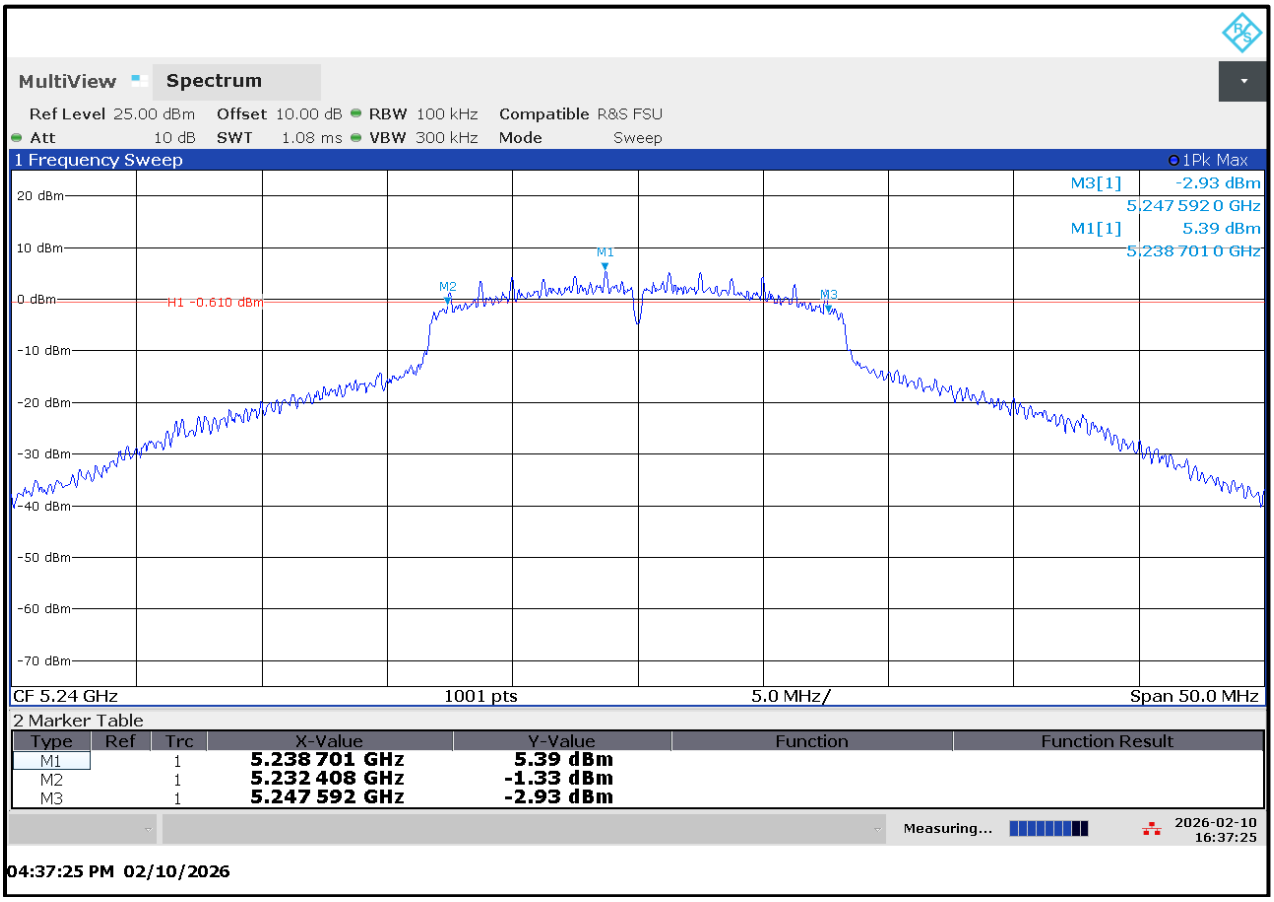
Plot 6-1: 6 dB Bandwidth – 5170 MHz – 802.11a



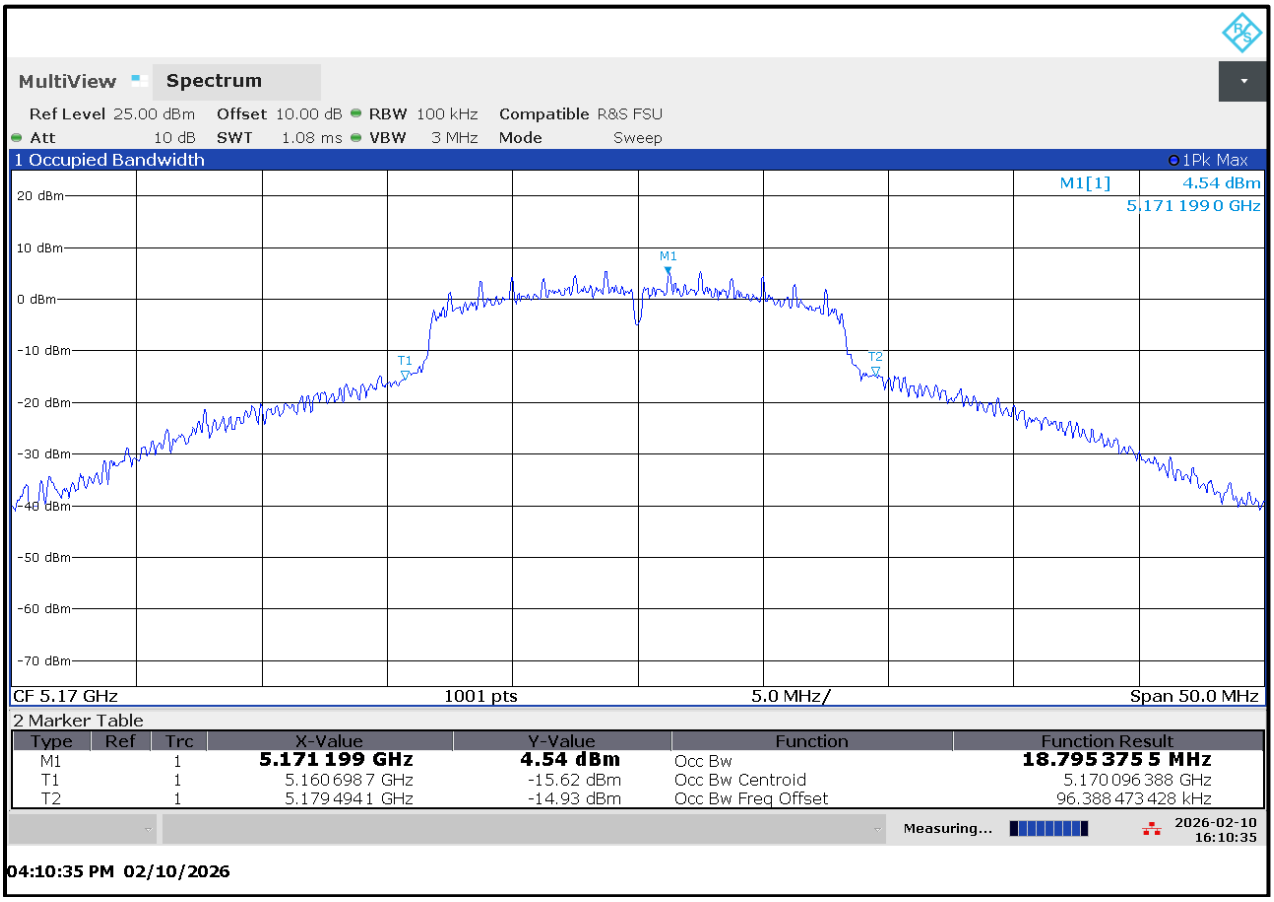
Plot 6-2: 6 dB Bandwidth – 5200 MHz – 802.11a



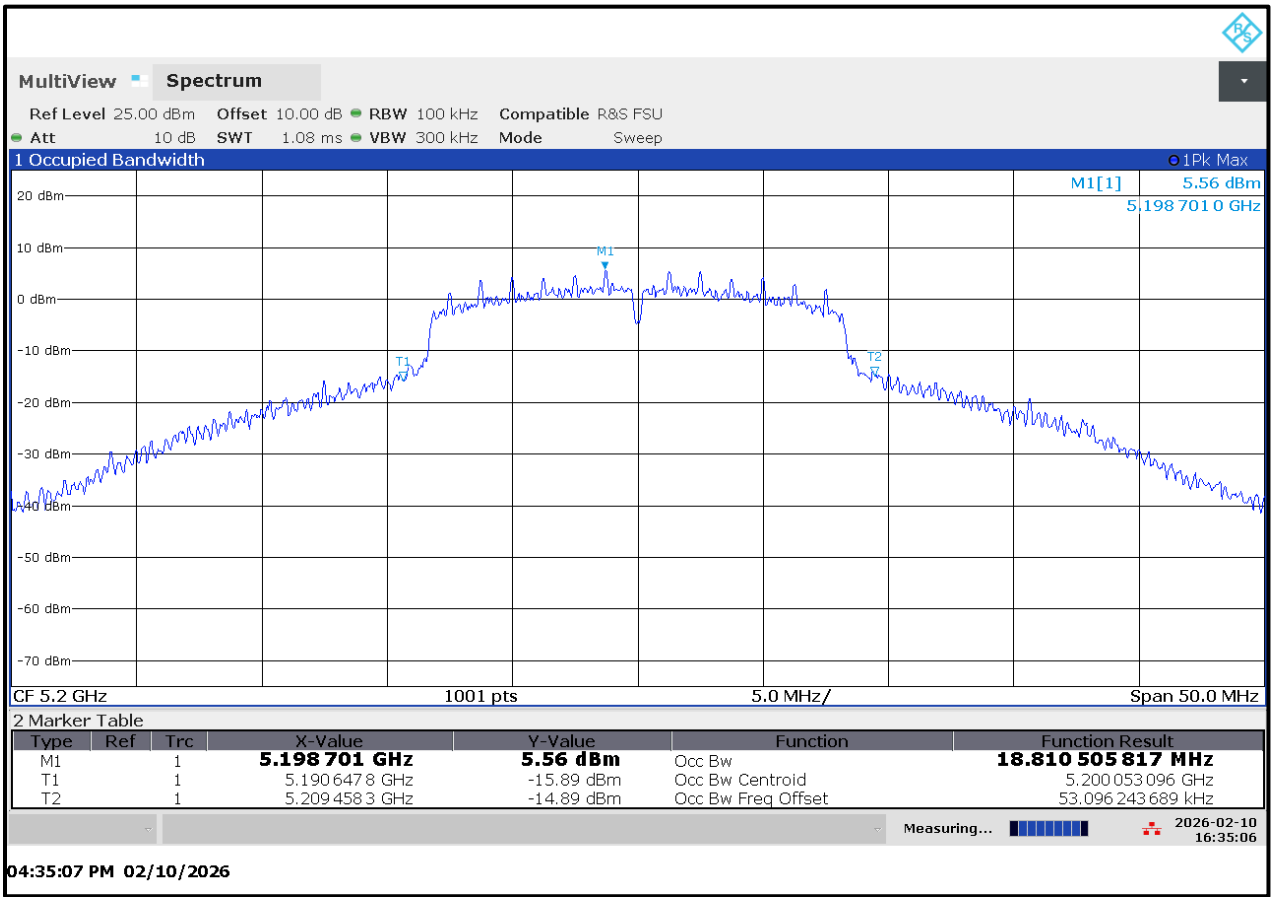
Plot 6-3: 6 dB Bandwidth – 5240 MHz – 802.11a



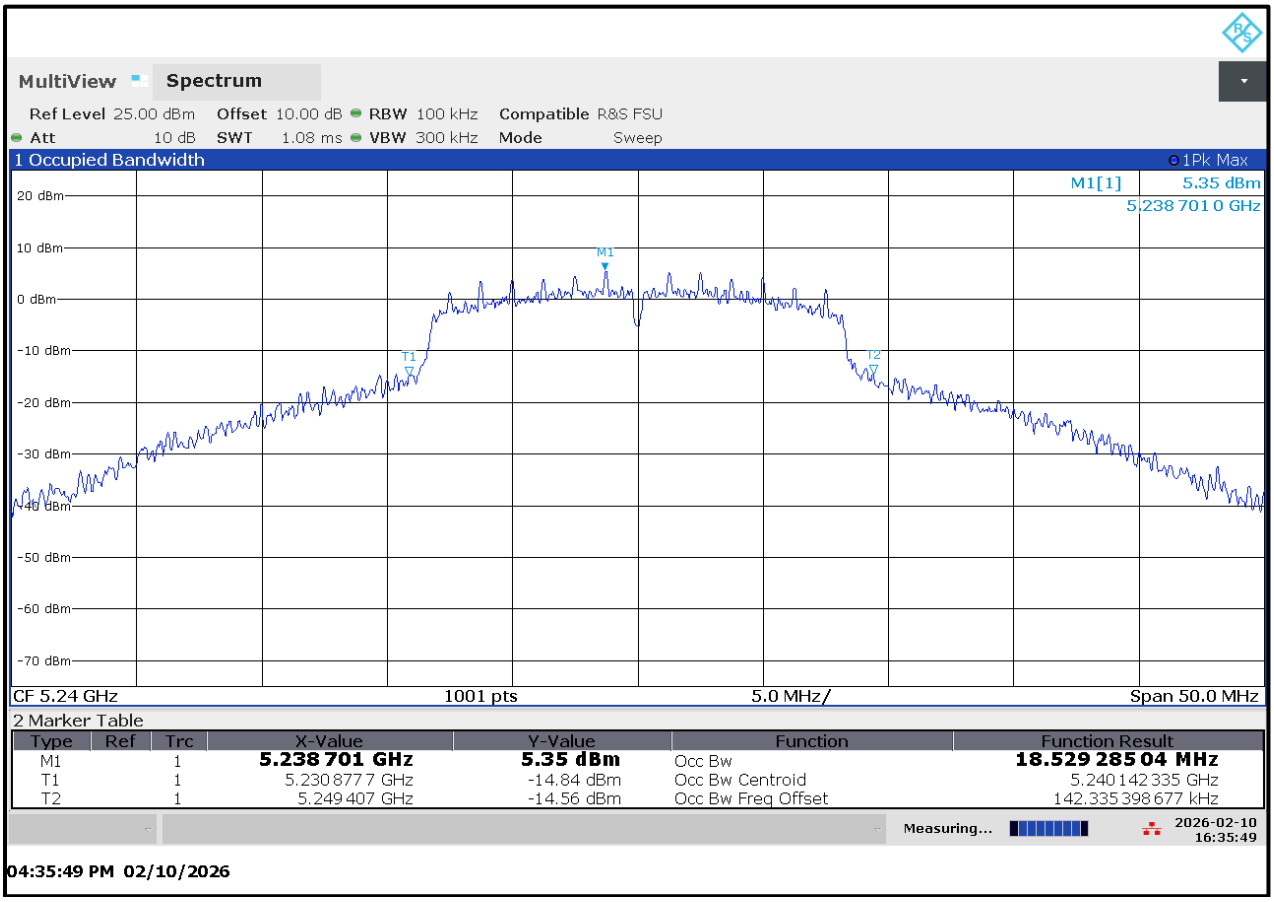
Plot 6-4: 99% Bandwidth – 5170 MHz – 802.11a



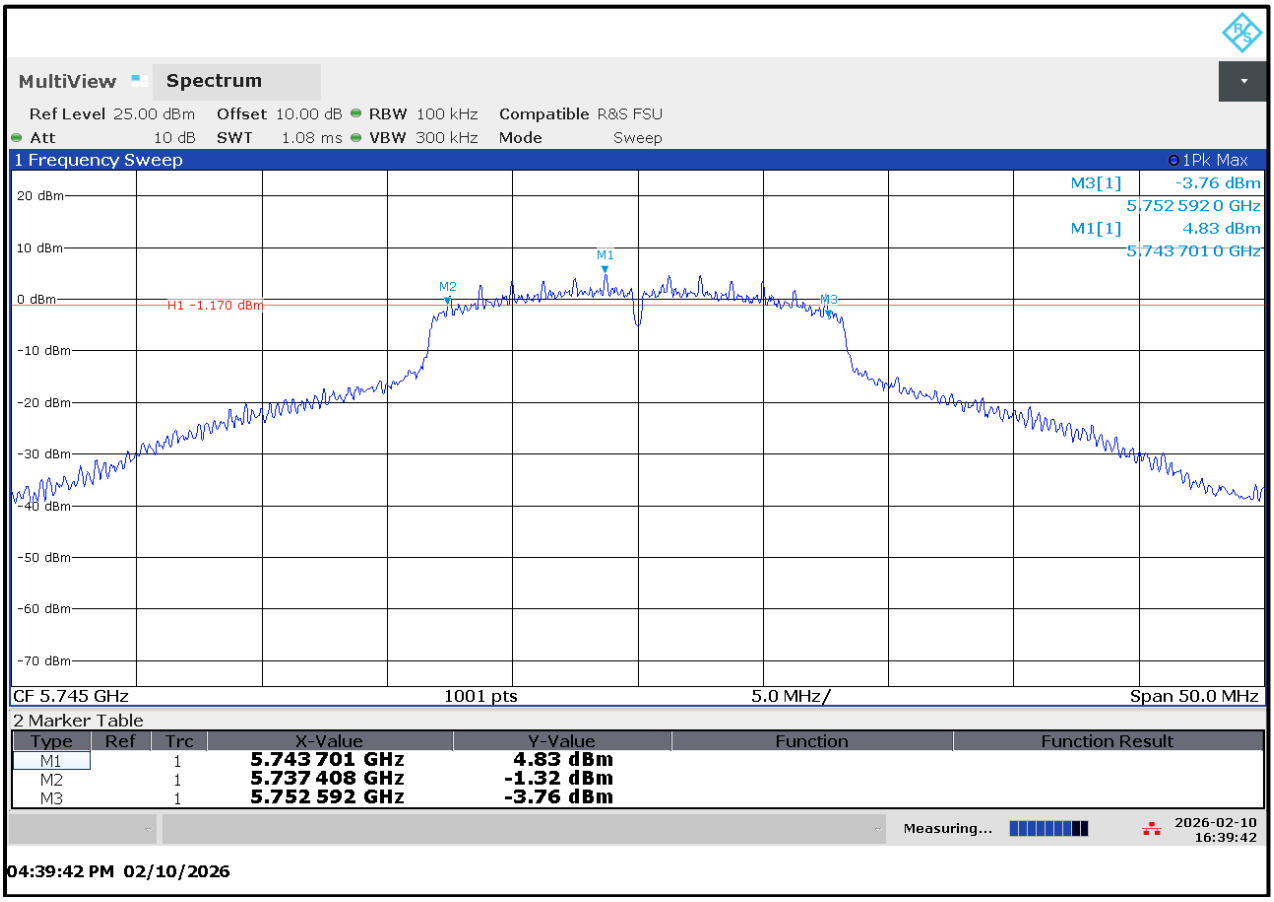
Plot 6-5: 99% Bandwidth – 5200 MHz – 802.11a



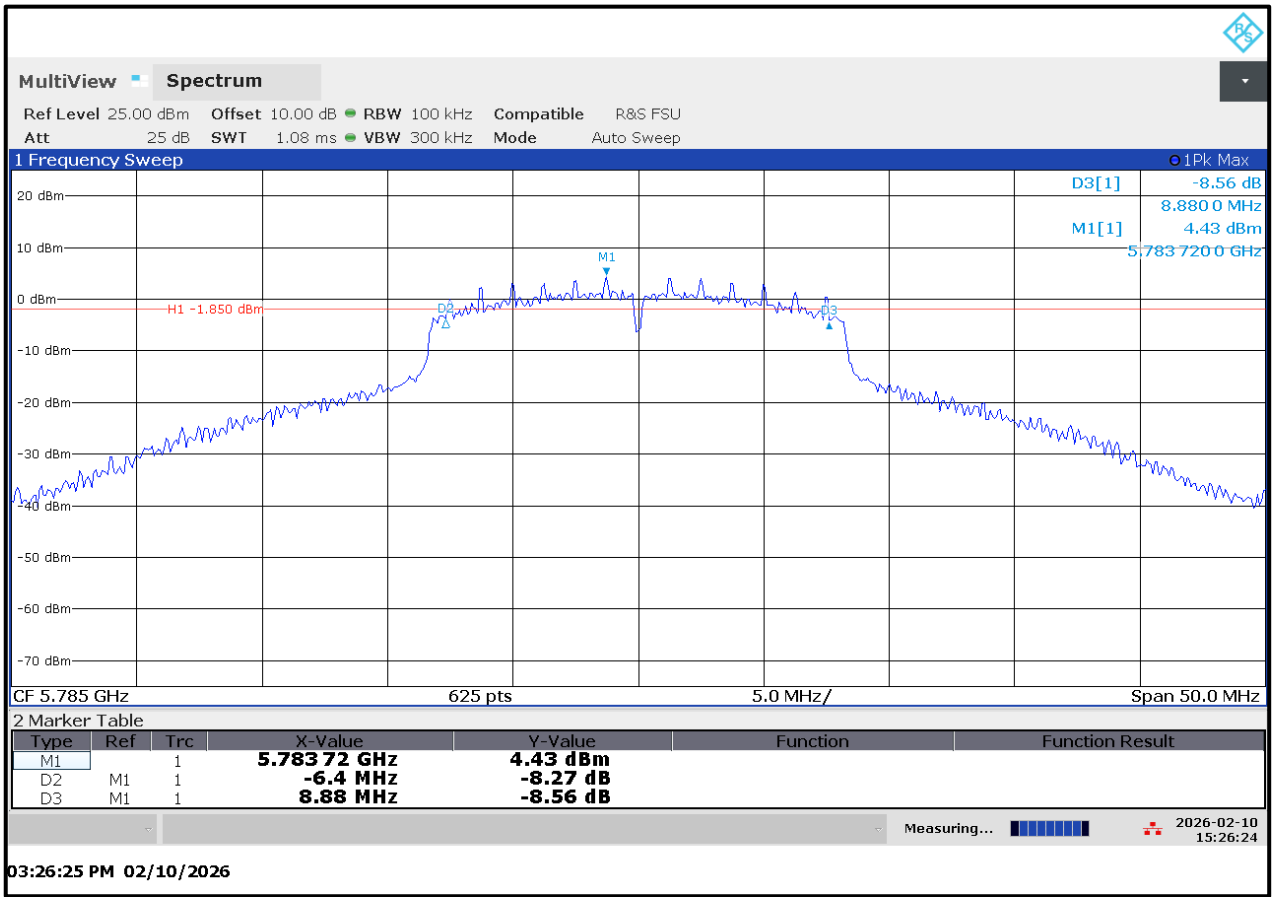
Plot 6-6: 99% Bandwidth – 5240 MHz – 802.11a



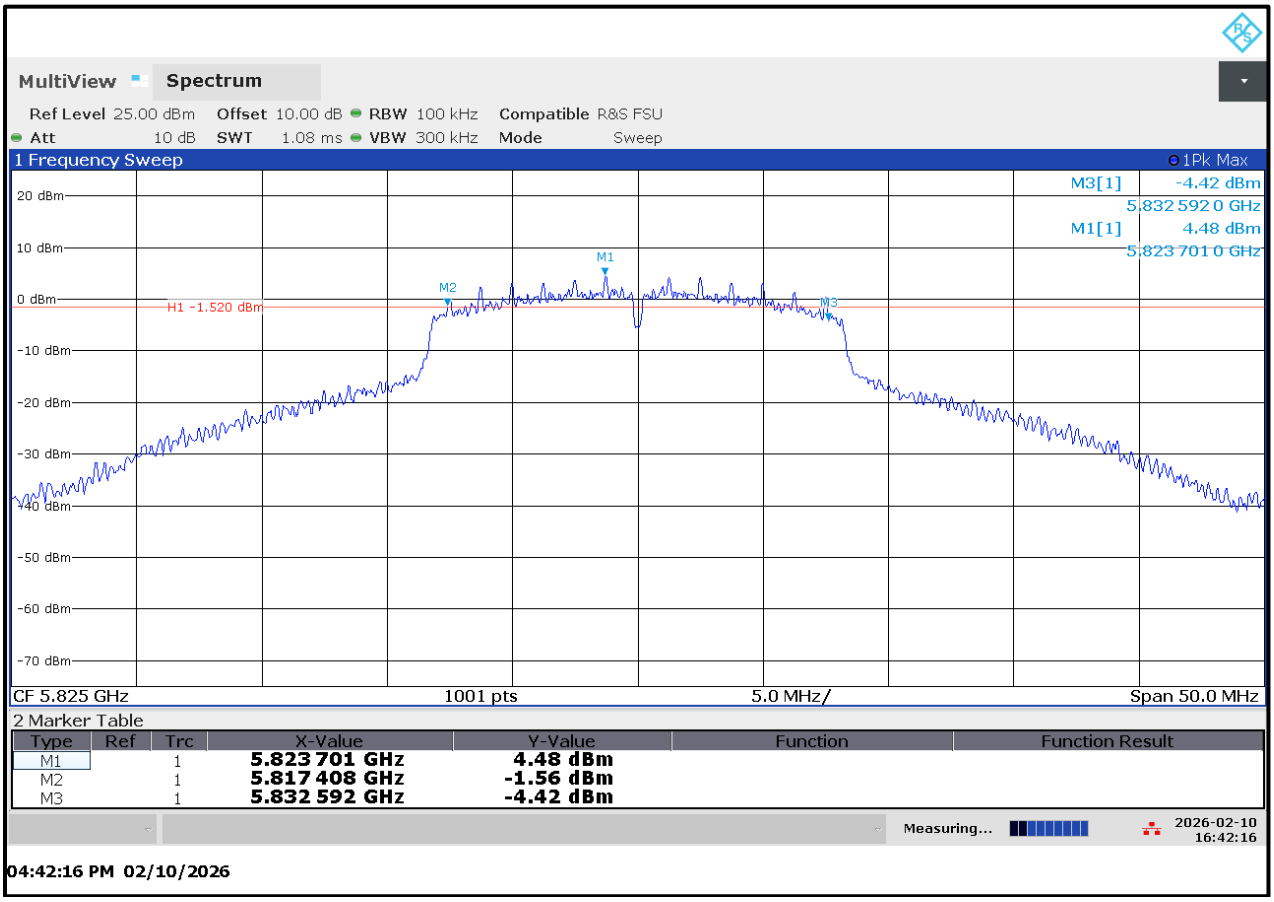
Plot 6-7: 6 dB Bandwidth – 5745 MHz – 802.11a



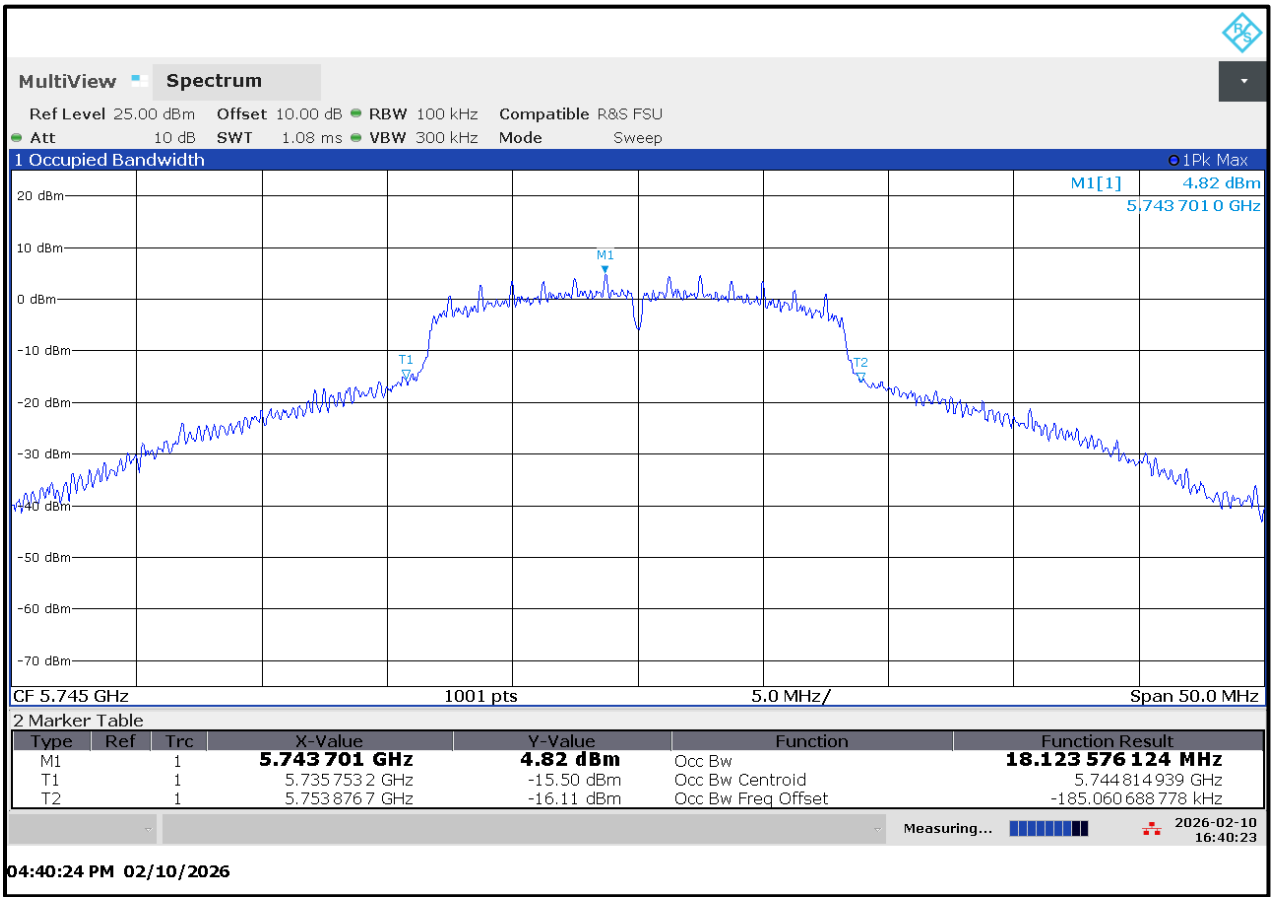
Plot 6-8: 6 dB Bandwidth – 5785 MHz – 802.11a



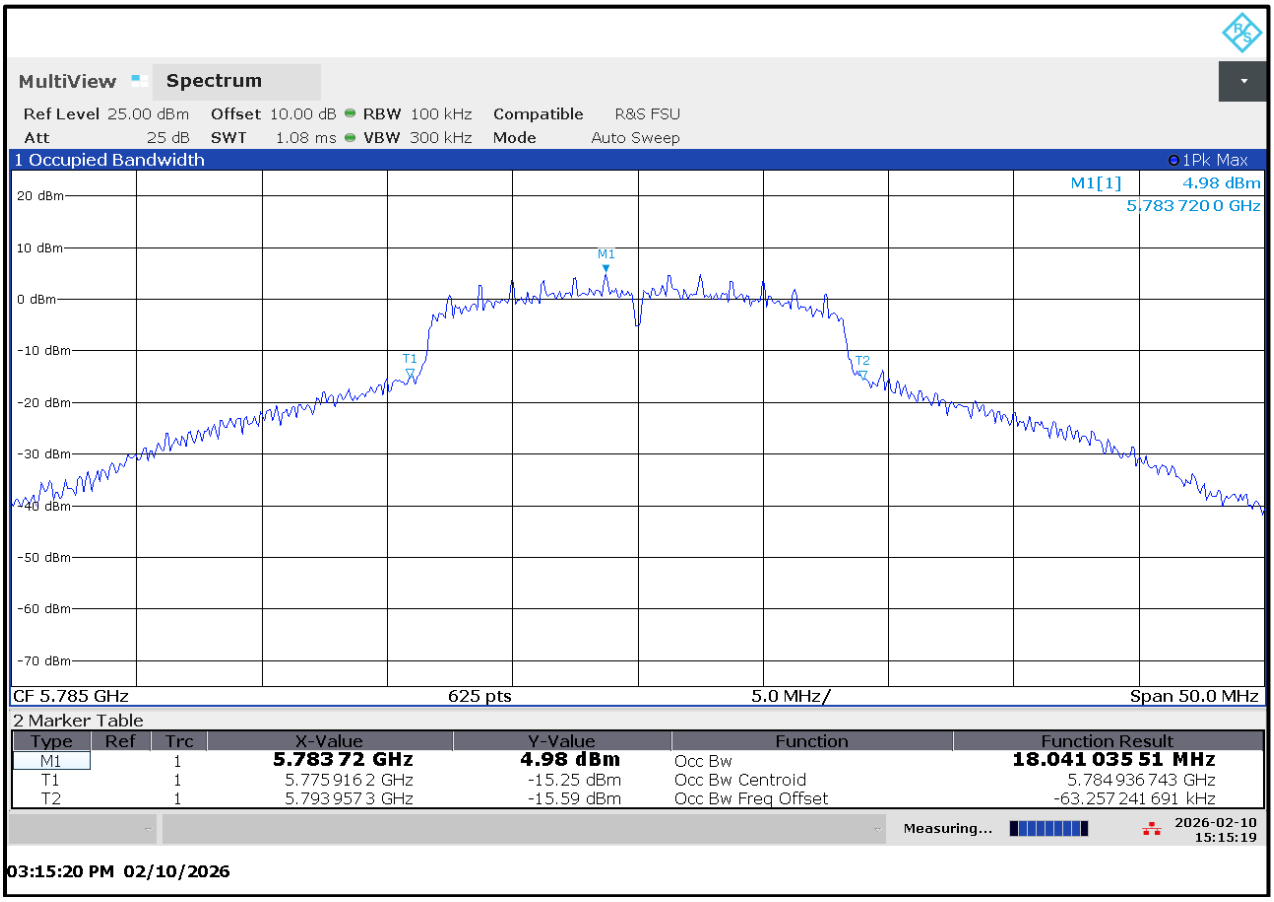
Plot 6-9: 6 dB Bandwidth – 5825 MHz – 802.11a



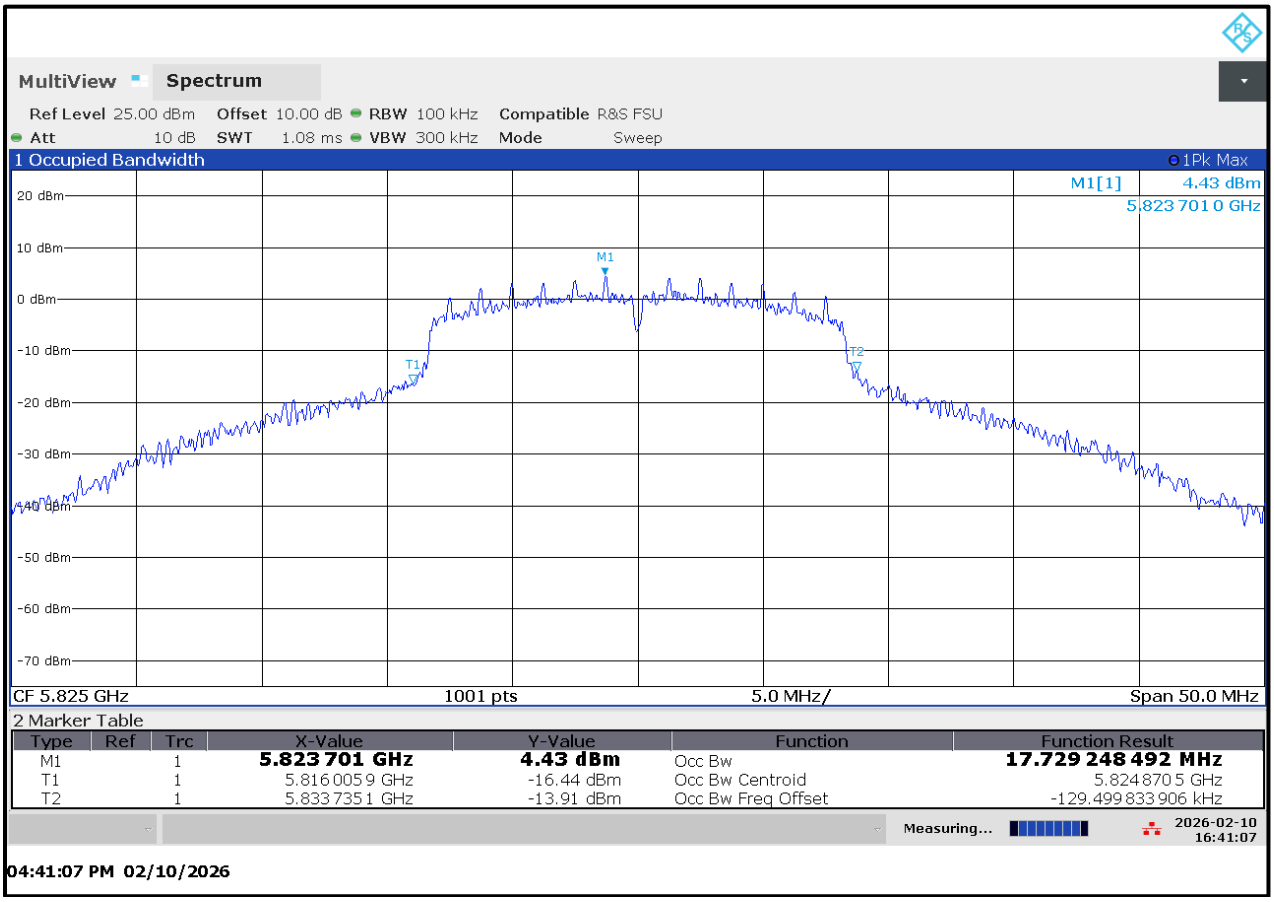
Plot 6-10: 99% Bandwidth – 5745 MHz – 802.11a



Plot 6-11: 99% Bandwidth – 5785 MHz – 802.11a

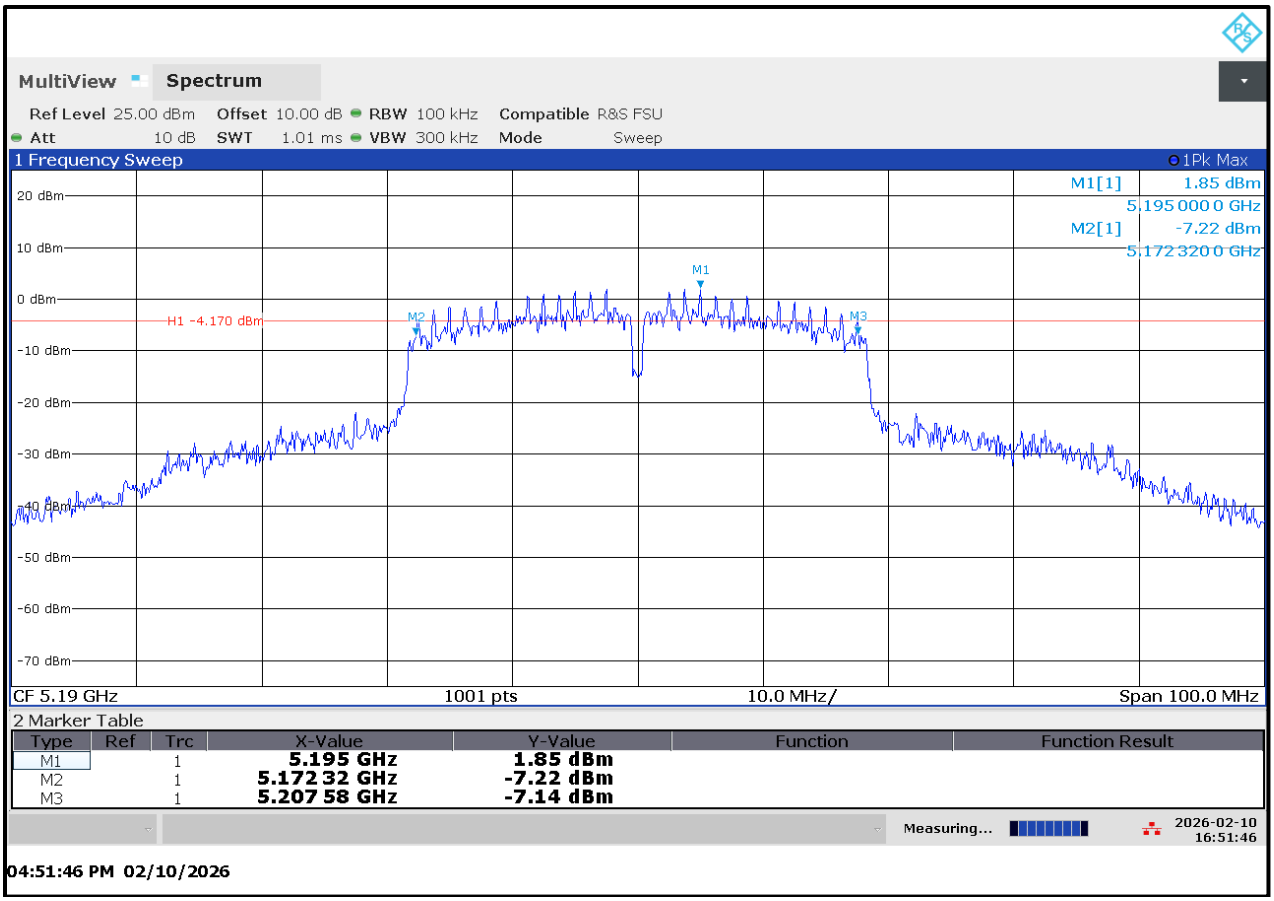


Plot 6-12: 99% Bandwidth – 5825 MHz – 802.11a

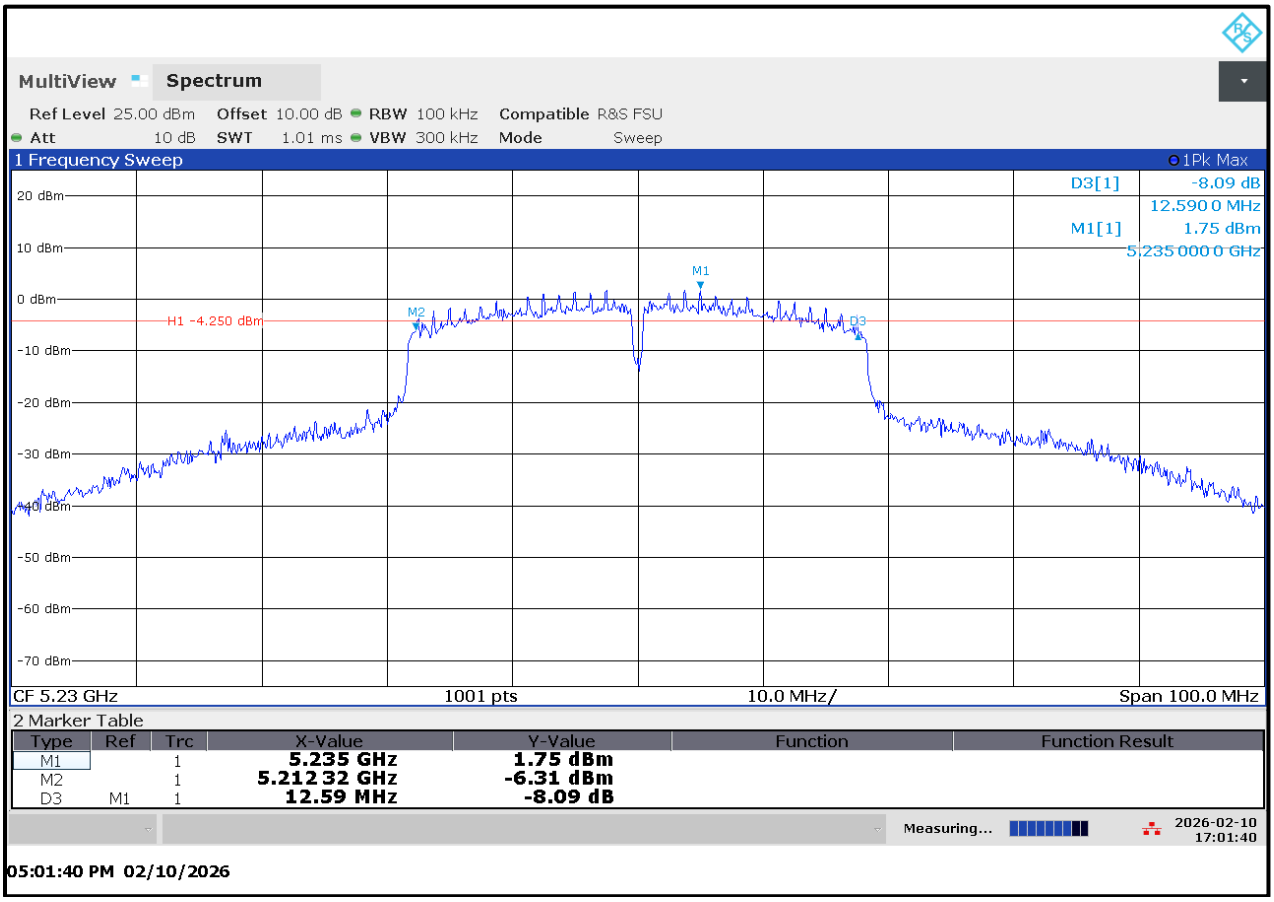


6.4 40 MHz Bandwidth Plots – U-NII 1

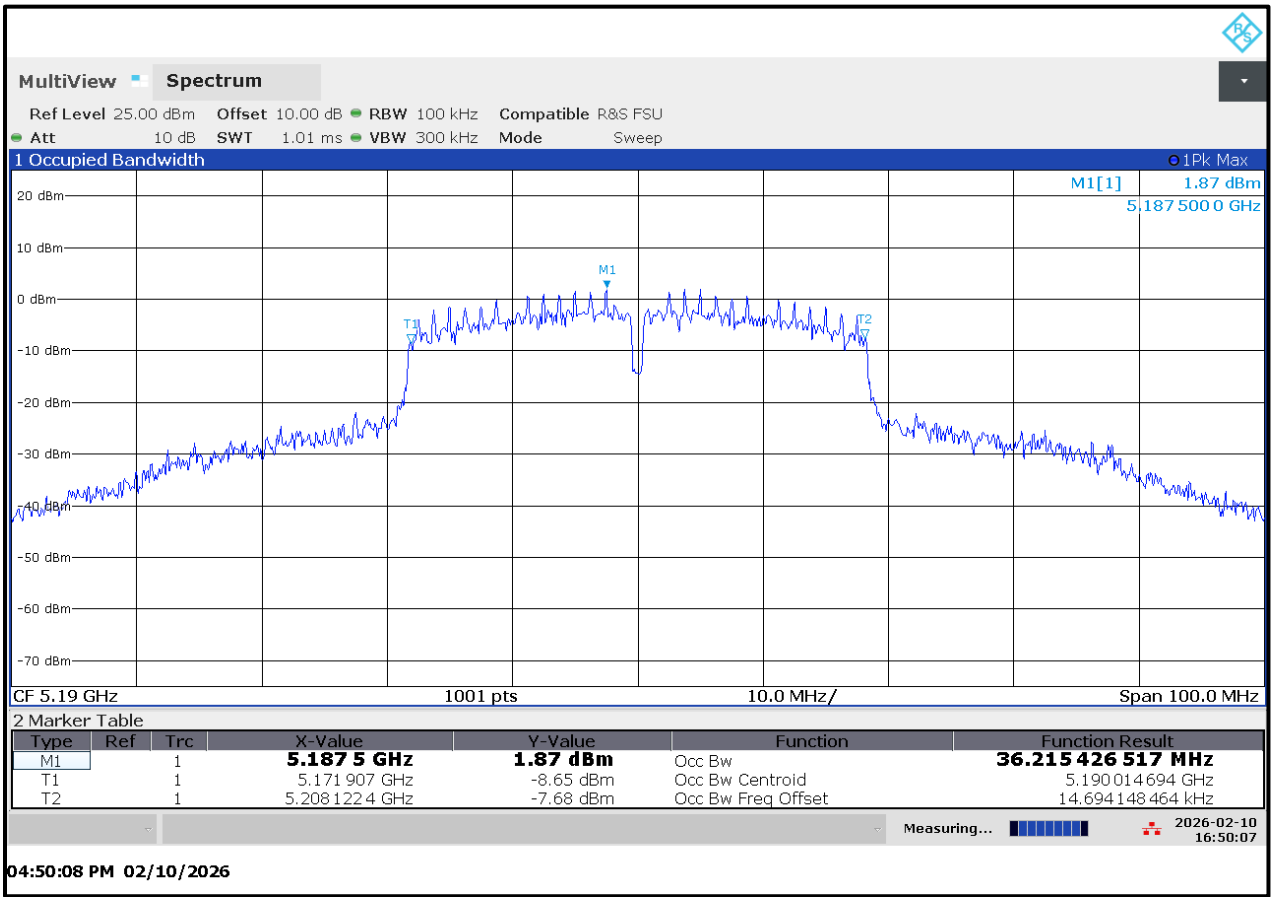
Plot 6-13: 6 dB Bandwidth – 5190 MHz – 802.11a



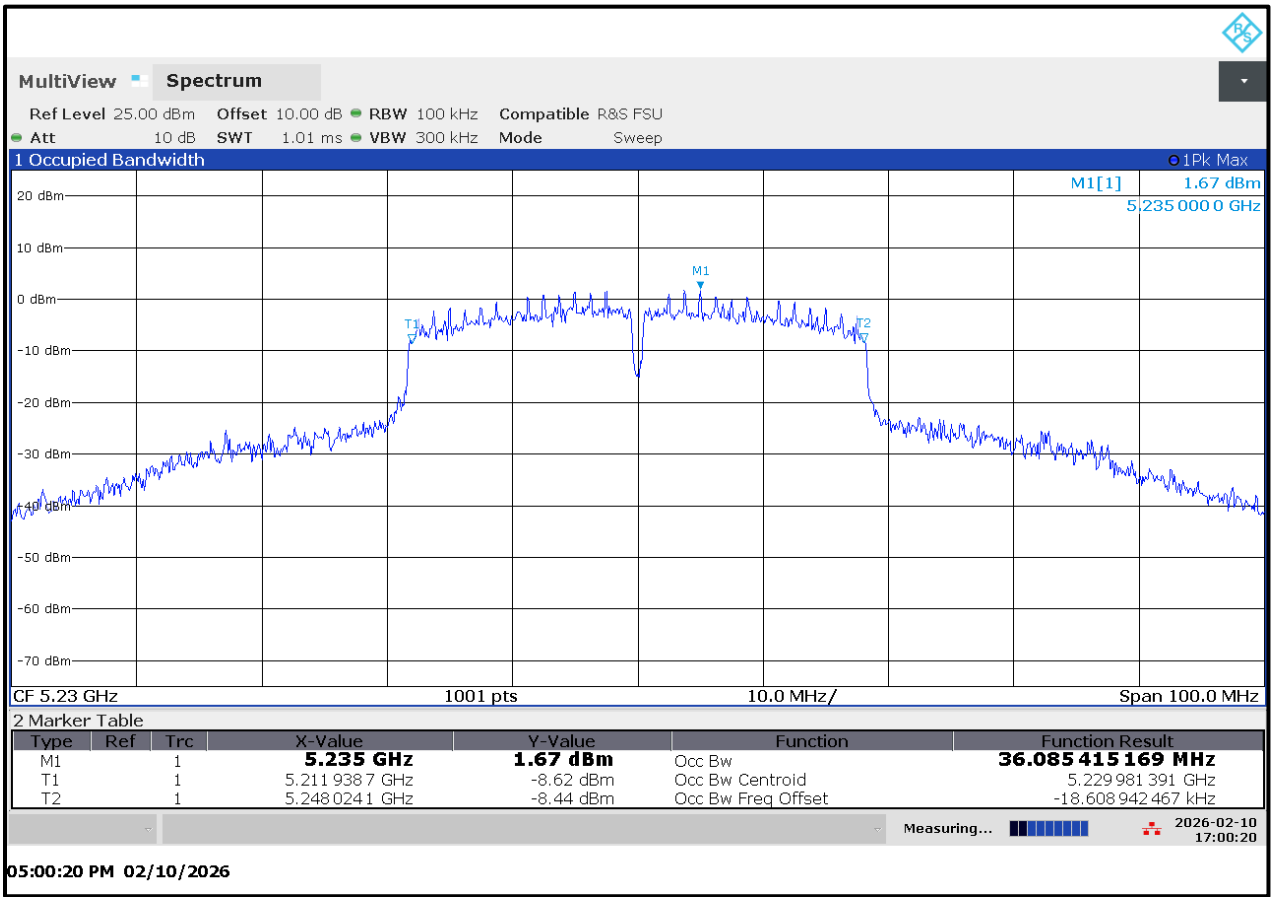
Plot 6-14: 6 dB Bandwidth – 5230 MHz – 802.11a



Plot 6-15: 99% dB Bandwidth – 5190 MHz – 802.11a

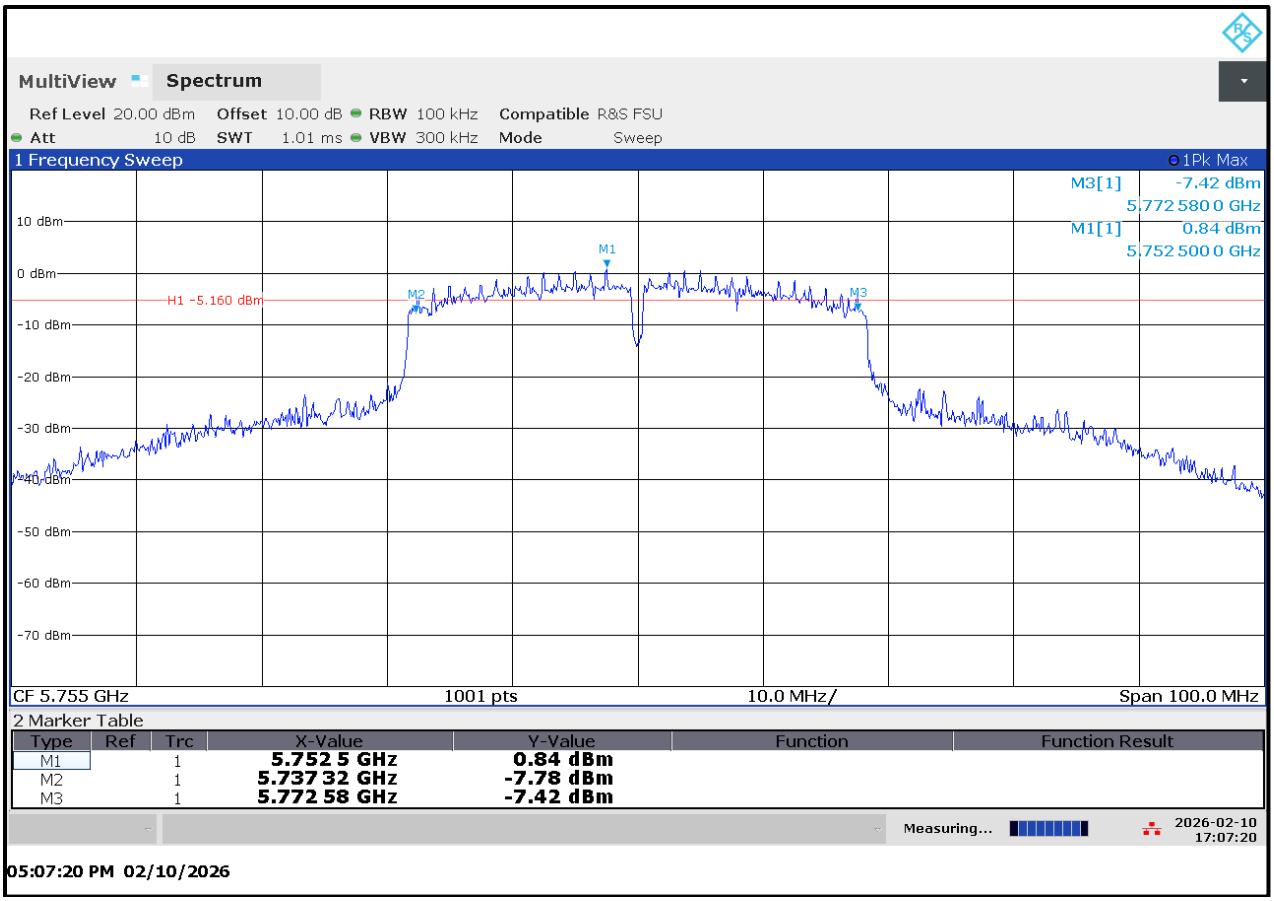


Plot 6-16: 99% dB Bandwidth – 5230 MHz – 802.11a

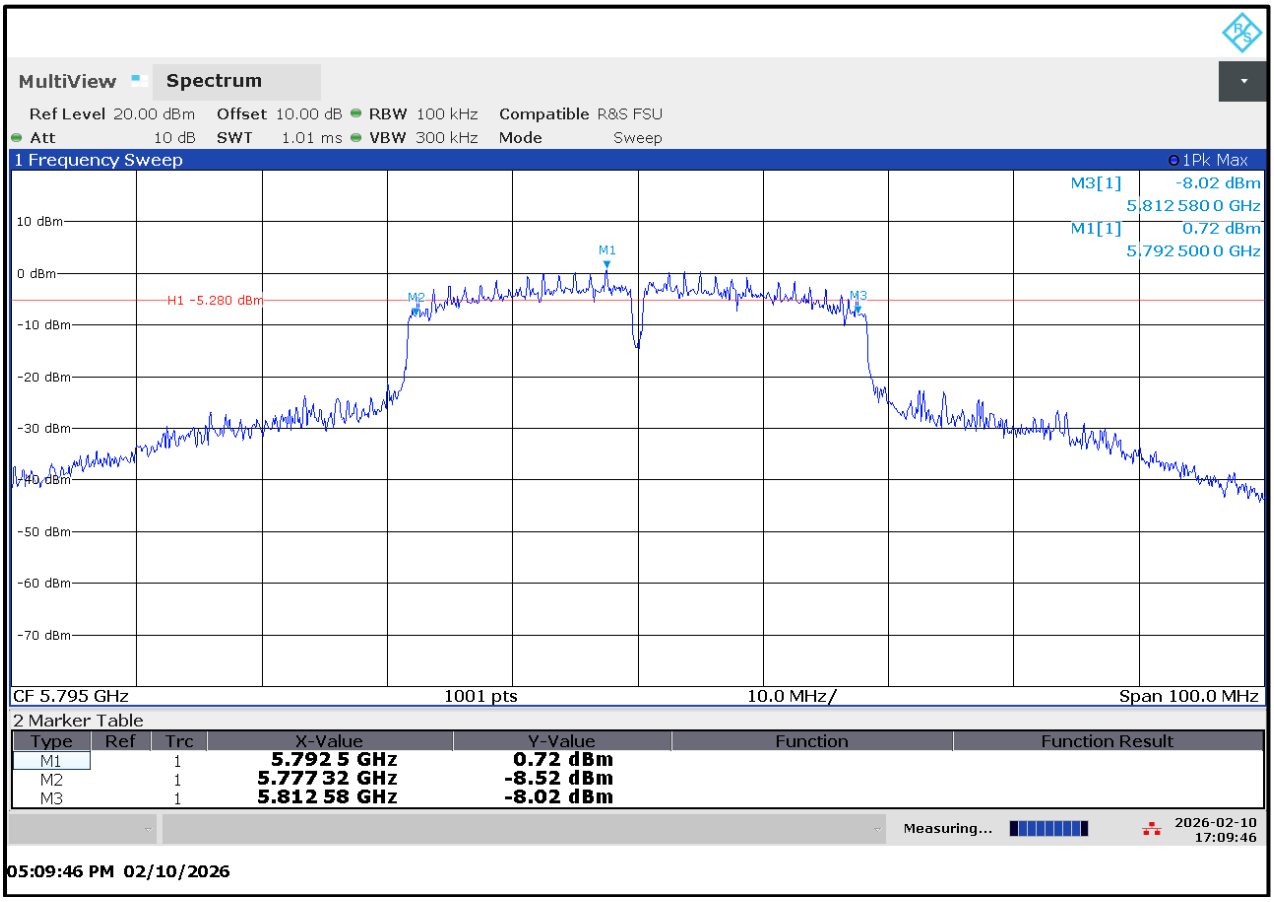


6.5 40 MHz Bandwidth Plots – U-NII 3

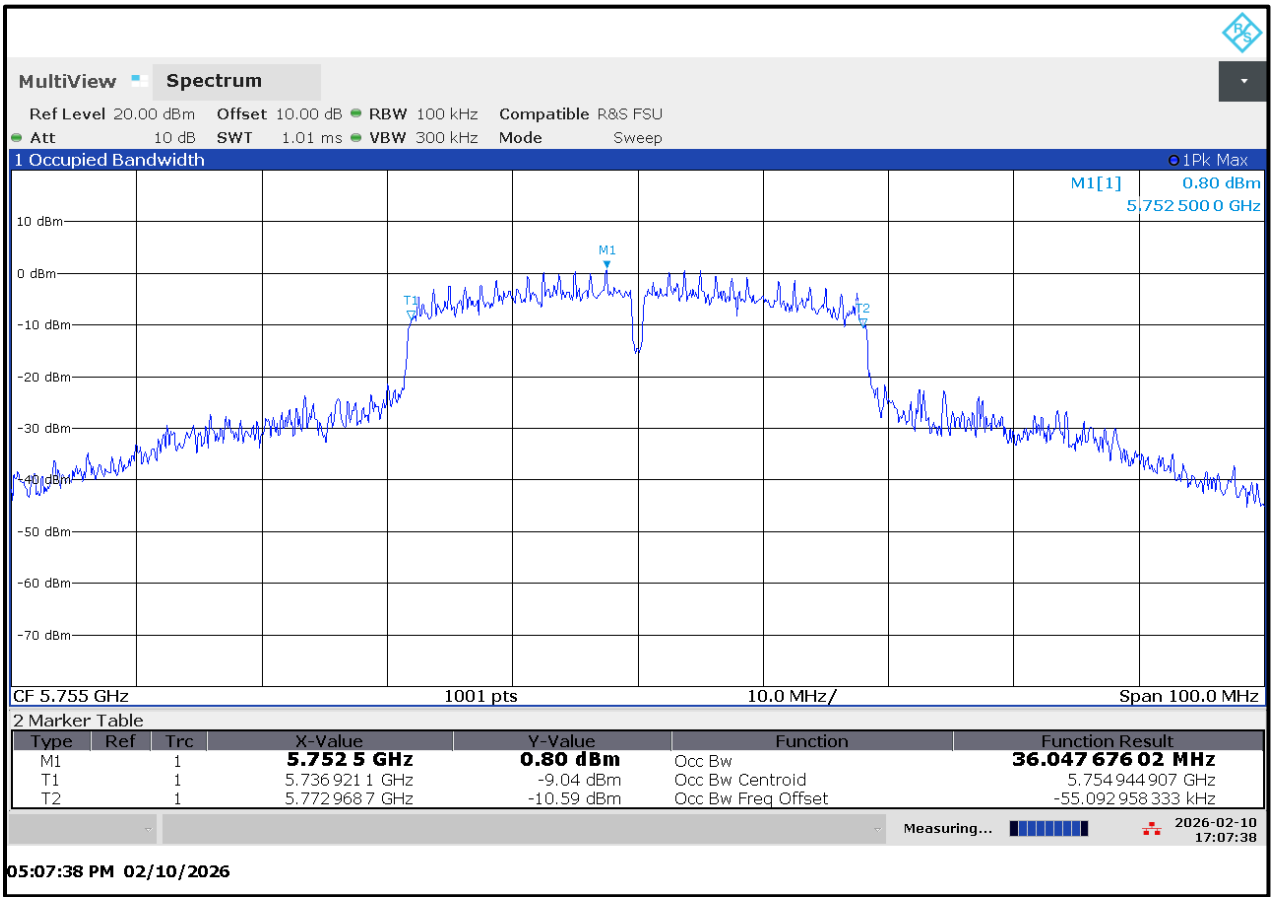
Plot 6-17: 6 dB Bandwidth – 5755 MHz – 802.11a



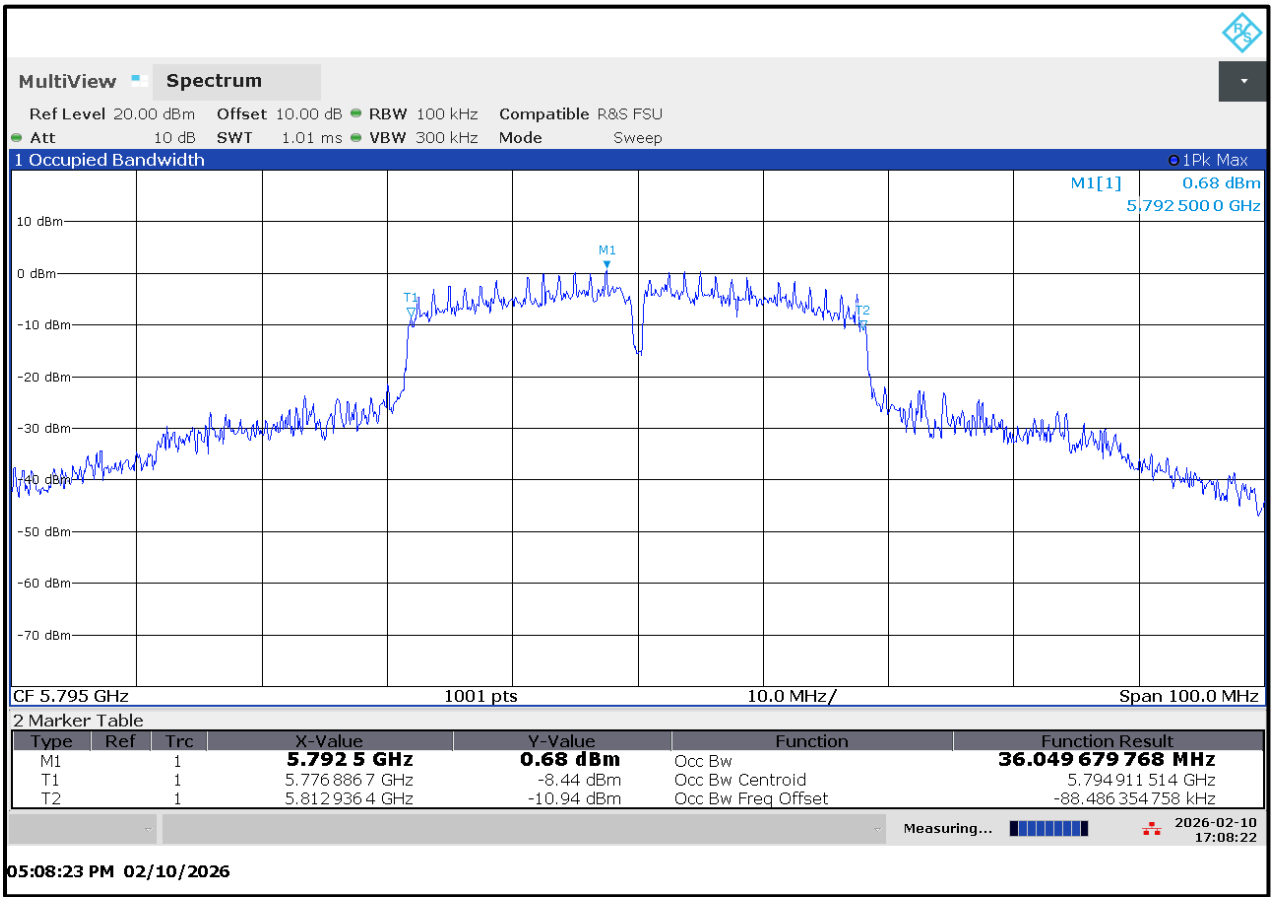
Plot 6-18: 6 dB Bandwidth – 5795 MHz – 802.11a



Plot 6-19: 99% Bandwidth – 5755 MHz – 802.11a



Plot 6-20: 99% Bandwidth – 5795 MHz – 802.11a



Measurement uncertainty: ±1 x 10^{-6} Hz. This measurement uncertainty is an expanded uncertainty at the 95% confidence level, with a coverage factor k=2.

Test Personnel:

Daniel W. Baltzell		February 10, 2026
Test Engineer	Signature	Date of Test

7 Power Spectral Density – FCC 15.407(a1/3)

7.1 Power Spectral Density Test Procedure

The power spectral density per FCC 15.407(a)(1)(3) was measured using a 50-ohm spectrum analyzer. The spectral lines were resolved for the modulated carriers. These levels are below the limits. See the power spectral density table and plots.

7.2 Power Spectral Density Test Results

Table 7-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Pressure (kPa)
May 12, 2024	23.4	18	100.9

Table 7-2: Power Spectral Density Test Data – U-NII 1 – 802.11a (20 MHz BW)

Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)	Result (Pass / Fail)
5180	8.5	17.0	-8.5	Pass
5200	13.1	17.0	-3.9	Pass
5240	12.9	17.0	-4.1	Pass

Table 7-3: Power Spectral Density Test Data – U-NII 3 – 802.11a (20 MHz BW)

Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)	Result (Pass / Fail)
5745	11.9	30.0	-18.1	Pass
5785	12.0	30.0	-18.0	Pass
5825	16.6	30.0	-13.4	Pass

Table 7-4: Power Spectral Density Test Data – U-NII 1 – 802.11a (40 MHz BW)

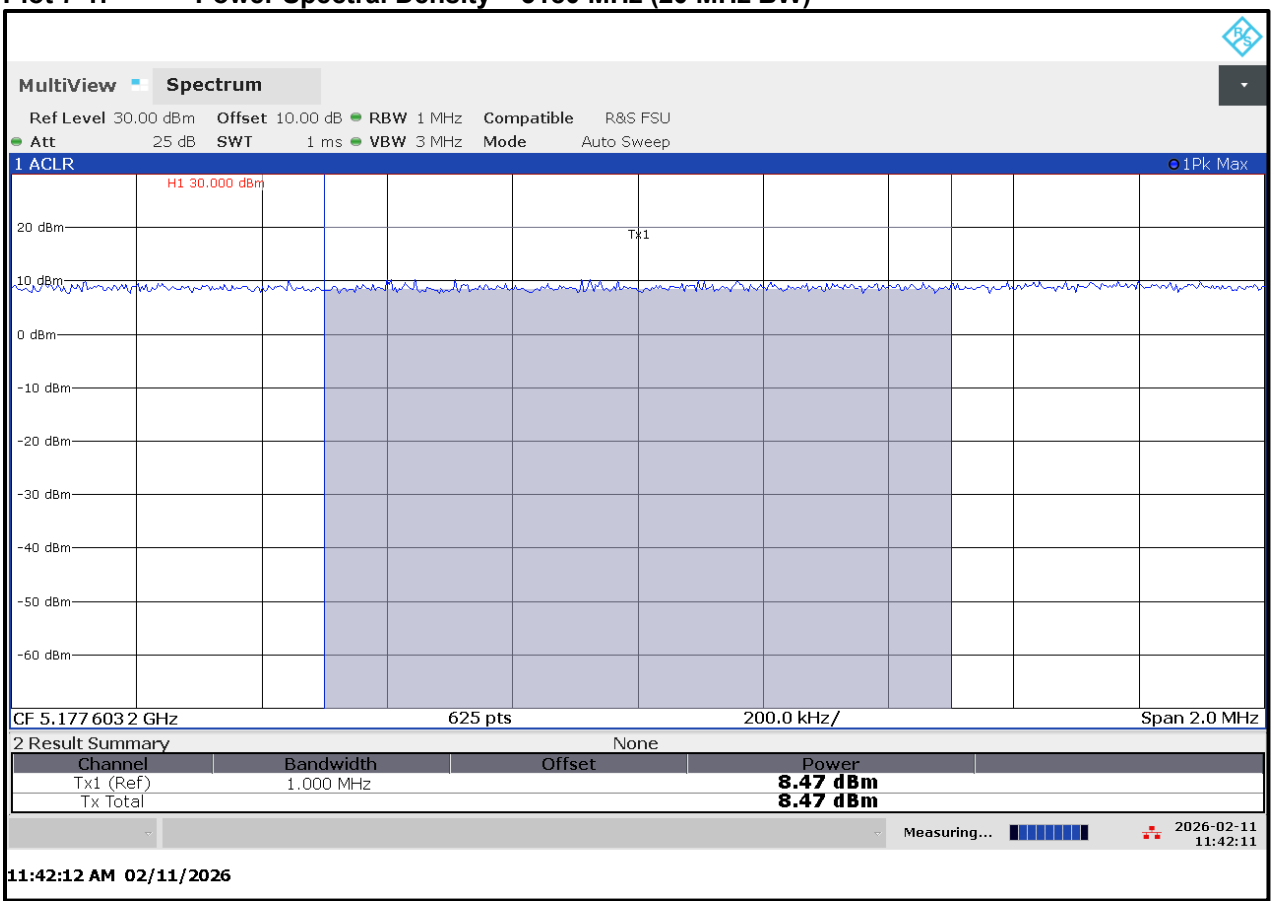
Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)	Result (Pass / Fail)
5190	7.5	17.0	-9.5	Pass
5230	7.2	17.0	-9.8	Pass

Table 7-5: Power Spectral Density Test Data – U-NII 3 – 802.11a (40 MHz BW)

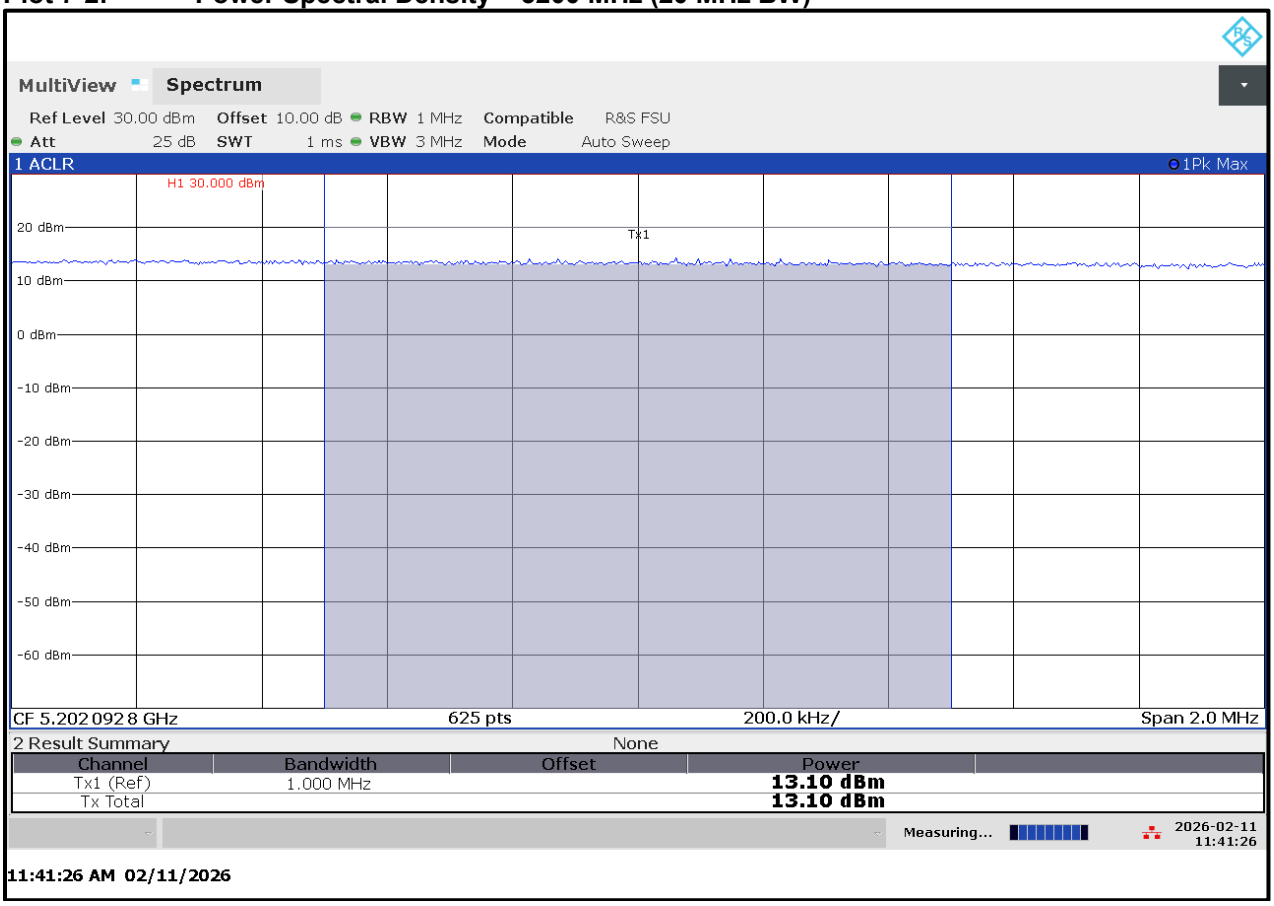
Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)	Result (Pass / Fail)
5755	6.4	30.0	-23.6	Pass
5795	6.9	30.0	-23.1	Pass

7.3 Power Spectral Density Plots – U-NII 1

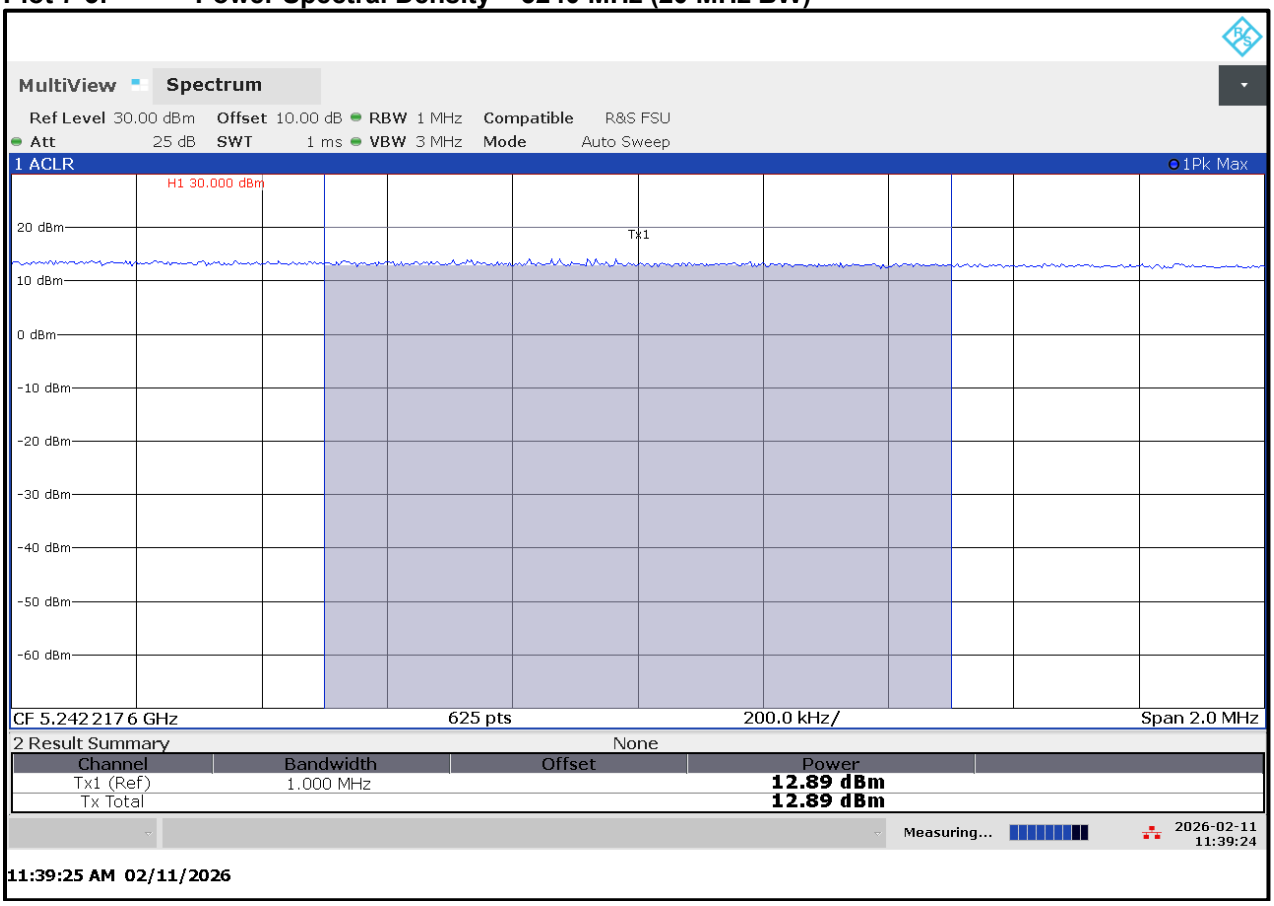
Plot 7-1: Power Spectral Density – 5180 MHz (20 MHz BW)



Plot 7-2: Power Spectral Density – 5200 MHz (20 MHz BW)

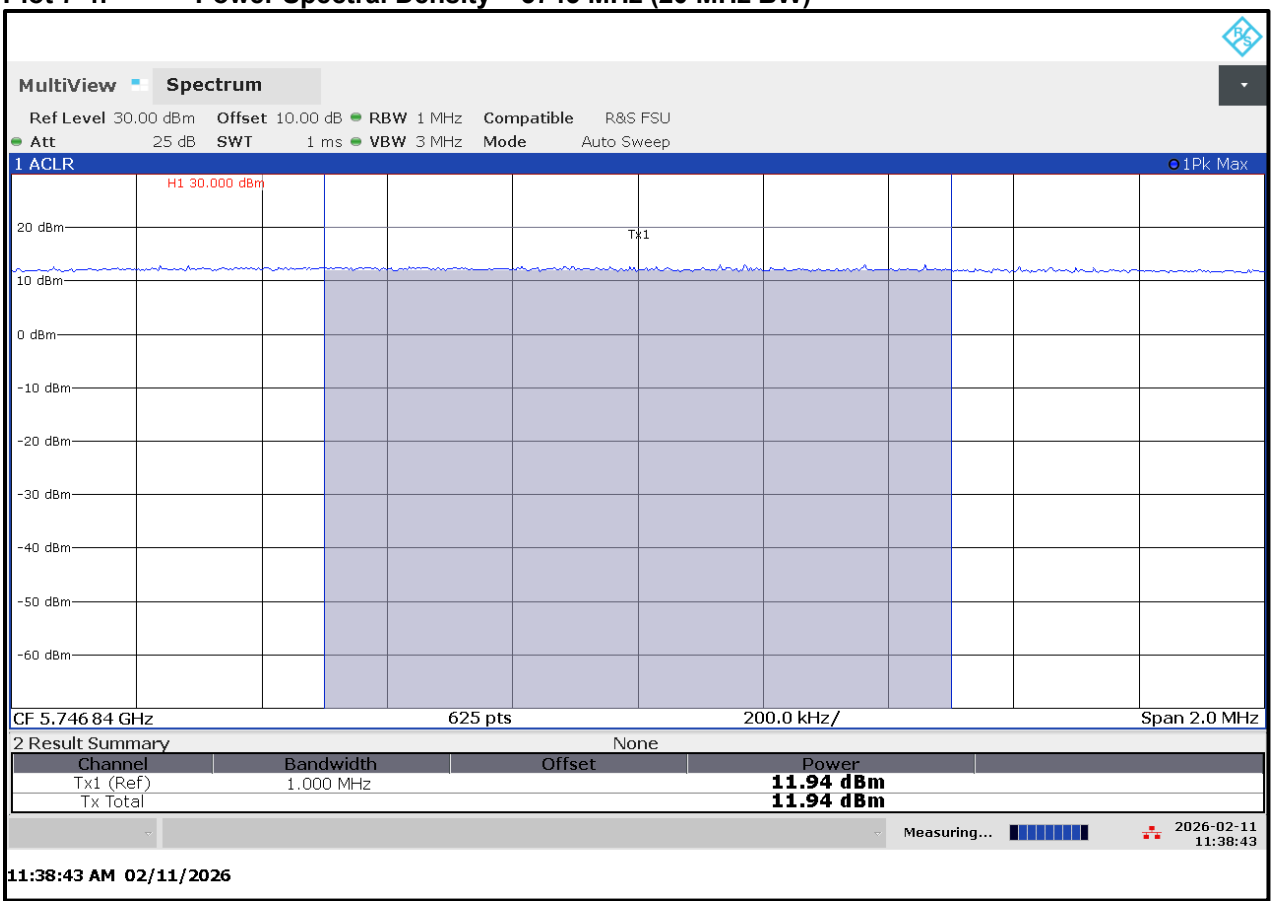


Plot 7-3: Power Spectral Density – 5240 MHz (20 MHz BW)

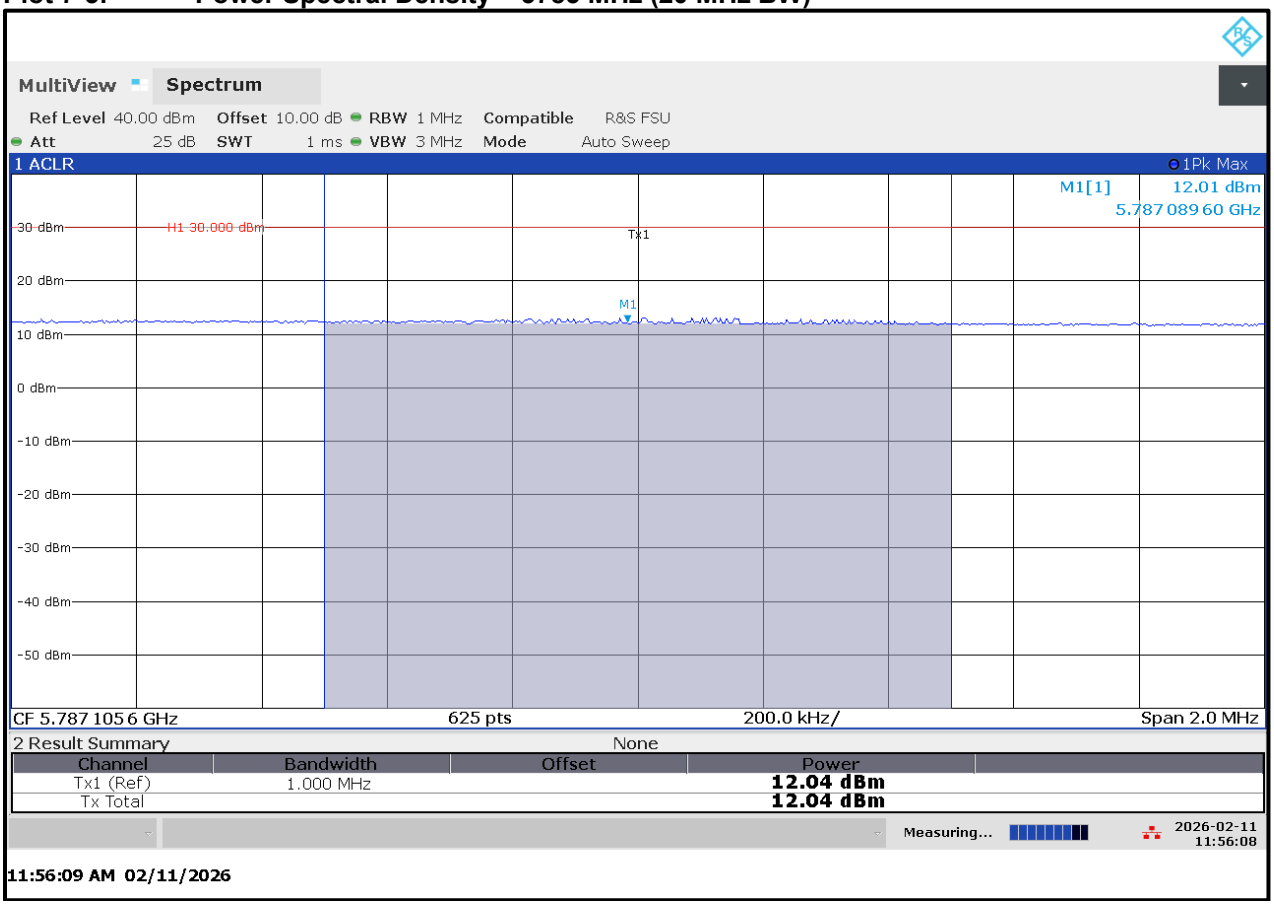


7.4 Power Spectral Density Plots – U-NII 3

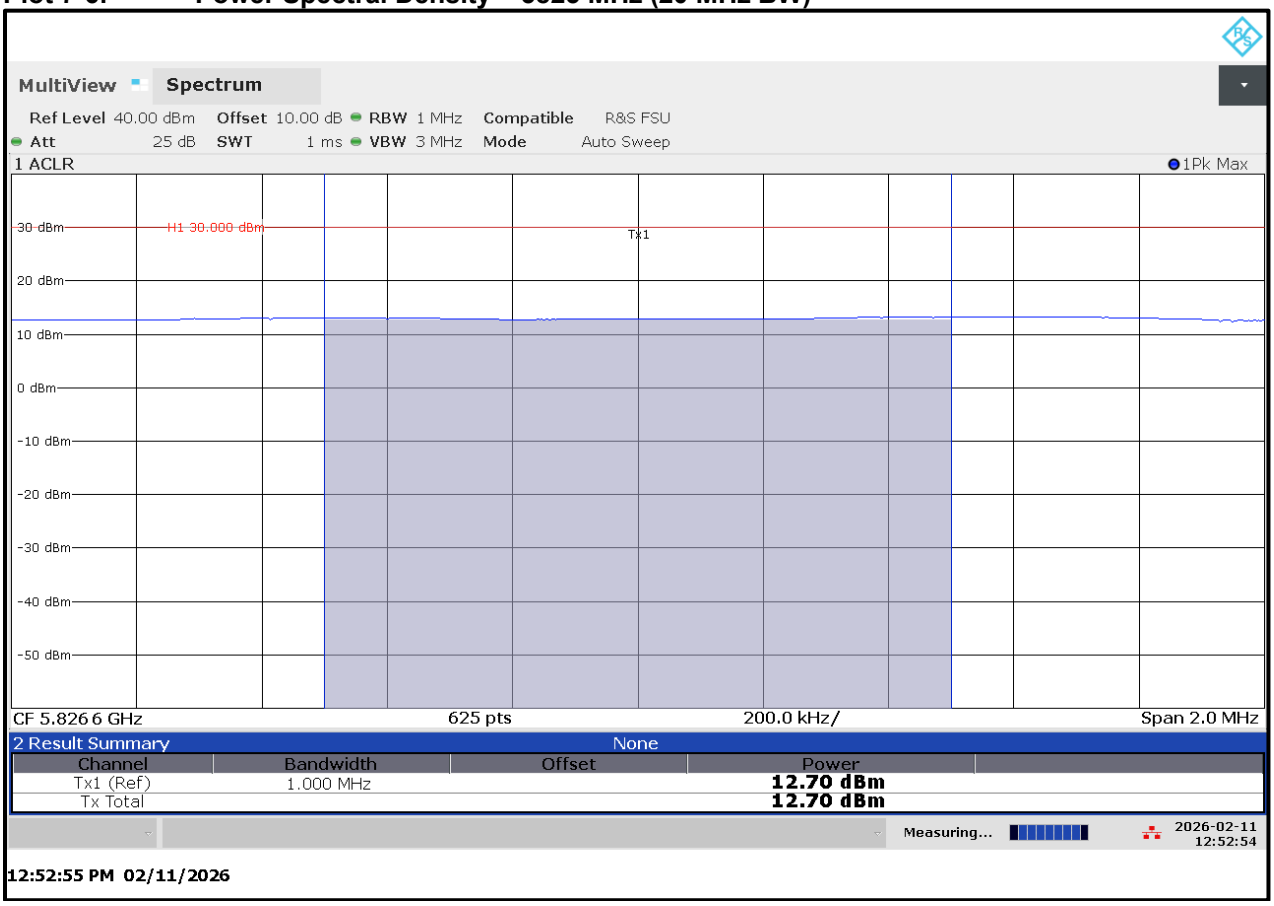
Plot 7-4: Power Spectral Density – 5745 MHz (20 MHz BW)



Plot 7-5: Power Spectral Density – 5785 MHz (20 MHz BW)

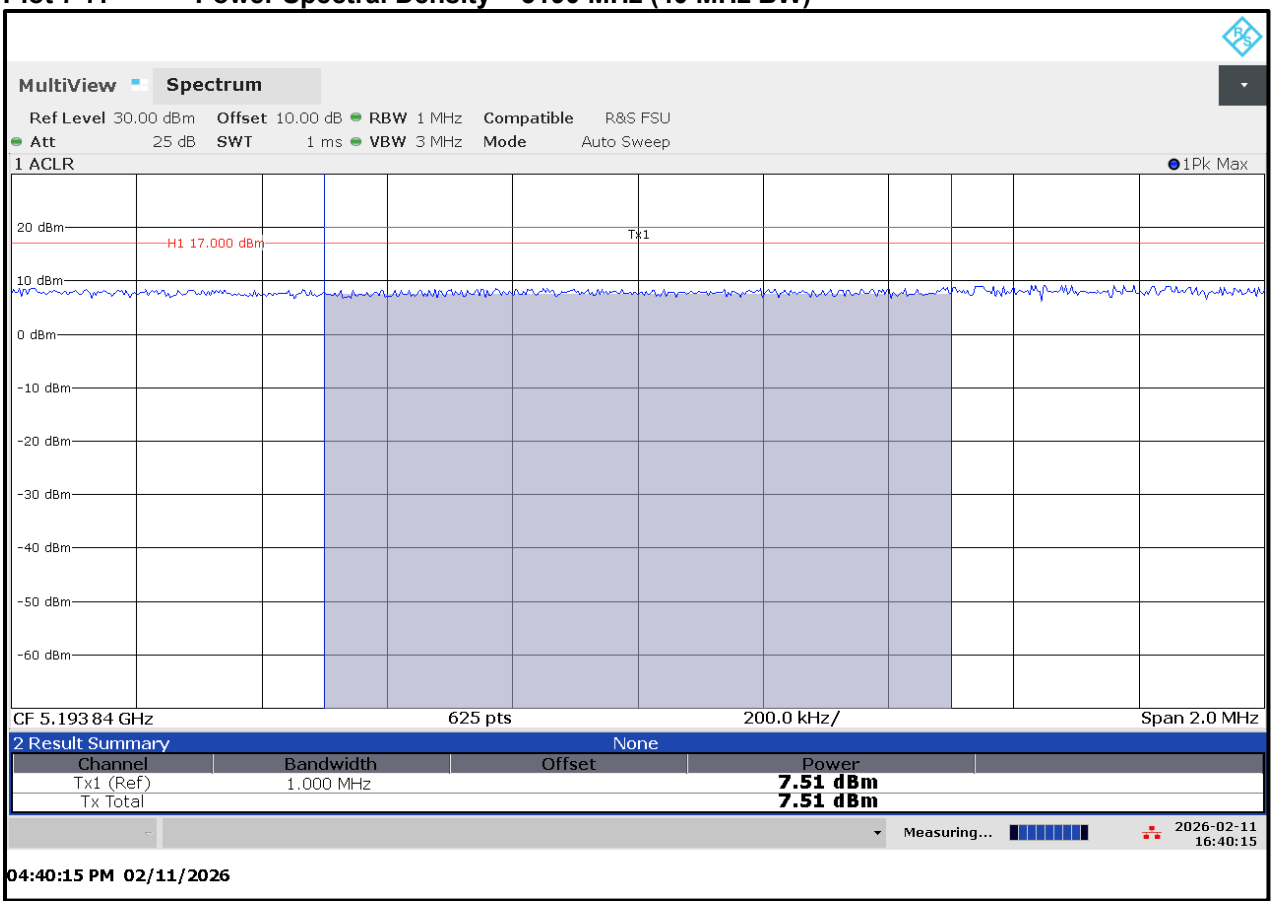


Plot 7-6: Power Spectral Density – 5825 MHz (20 MHz BW)

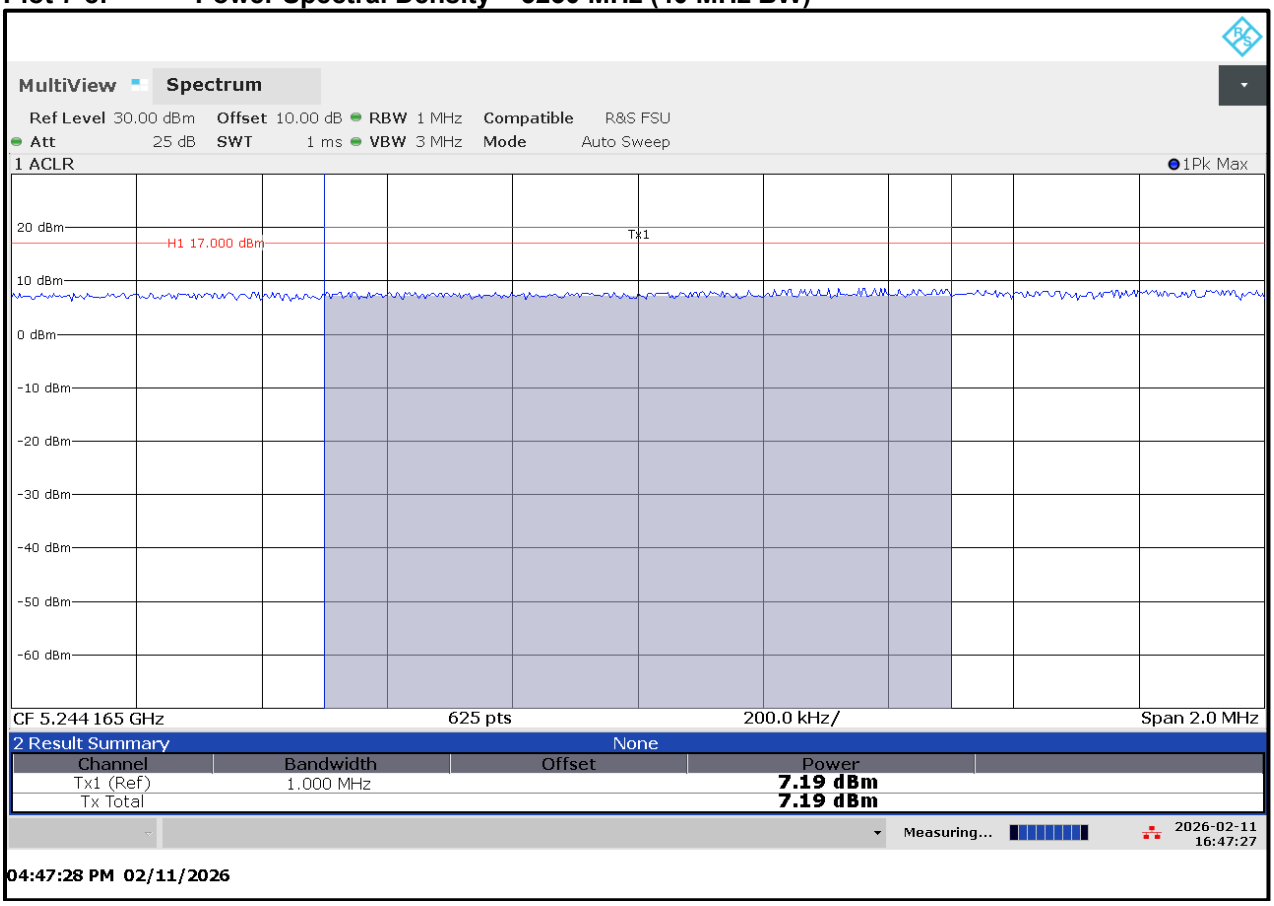


7.5 Power Spectral Density Plots – U-NII 1

Plot 7-7: Power Spectral Density – 5190 MHz (40 MHz BW)

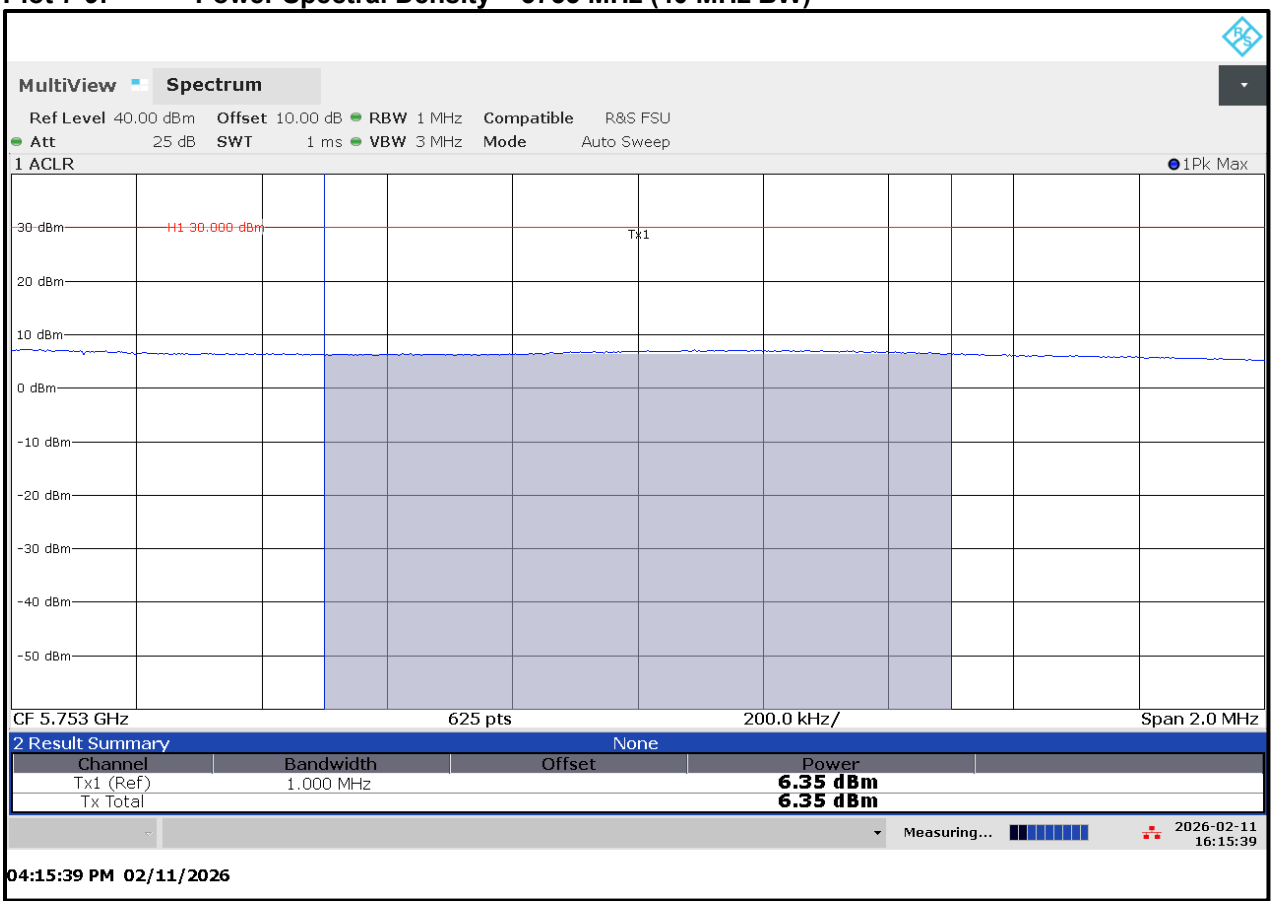


Plot 7-8: Power Spectral Density – 5230 MHz (40 MHz BW)

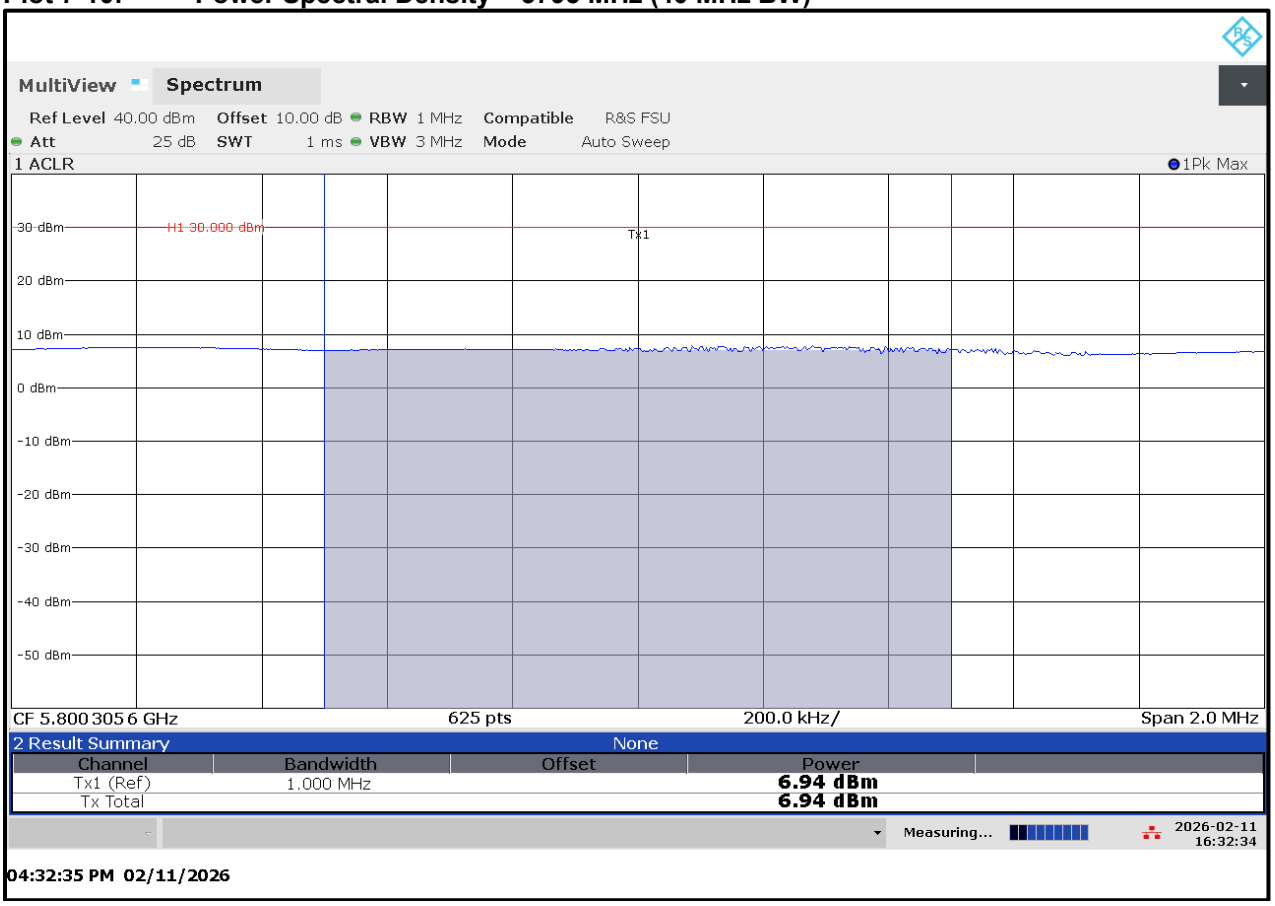


7.6 Power Spectral Density Plots – U-NII 3

Plot 7-9: Power Spectral Density – 5755 MHz (40 MHz BW)



Plot 7-10: Power Spectral Density – 5795 MHz (40 MHz BW)



Measurement uncertainty: ±0.5 dB. This measurement uncertainty is an expanded uncertainty at the 95% confidence level, with a coverage factor k=2.

Results: Pass

Test Personnel:

Daniel W. Baltzell		February 11, 2026
Test Engineer	Signature	Date of Test

8 Frequency Stability – FCC 15.407(g)

8.1 Frequency Stability Test Procedure

The EUT was placed inside the temperature chamber and supplied by a nominal 7.2 VDC. The EUT was connected to an analyzer located outside the chamber. The temperature was set to the lowest level of -30.0°C, and the EUT was allowed to stabilize with power off for 1 hour. The EUT was then powered up, and the frequency was measured. This was continued at +20.0°C and +50.0°C. The chamber was allowed to stabilize between measurements for approximately 30 minutes. At +20.0°C, the EUT supply voltage was adjusted to 85% (6.12 VDC) and 115% (8.28 VDC) of the nominal voltage, and the frequency was recorded.

Per 15.407(g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

8.2 Frequency Stability Test Results

Table 8-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Pressure (kPa)
February 13, 2026	23.1	36	101.7

Table 8-2: Frequency Stability at Extreme Temperatures

Temperature (°C)	Measured Frequency (MHz)	ppm
-30.0	5199.997837	-0.43
+20.0 (reference)	5200.002804	0.52
+50.0	5200.003686	0.70

Table 8-3: Frequency Stability at Extreme Voltage Levels

Voltage (VDC)	Measured Frequency (MHz)	ppm
(Battery End Point) 5.6	5200.002564	0.47
6.12	5200.002804	0.56
7.2 (reference)	5200.002885	0.53
8.28	5200.002564	0.48

Measurement uncertainty: ±0.5 dB. This measurement uncertainty is an expanded uncertainty at the 95% confidence level, obtained with a coverage factor k=2.

Results: Pass

Test Personnel:

Daniel W. Baltzell		February 13, 2026
Test Engineer	Signature	Date of Test

9 AC Conducted Emissions – FCC 15.207

The device is a portable 7.2 VDC device; AC line-conducted emissions measurements are not required.

10 Radiated Emissions – FCC 15.209

10.1 Limits of Radiated Emissions Measurement

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009-0.490	2400/f (kHz)	300
0.490-1.705	2400/f (kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on the average detector; however, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any circumstances of modulation.

10.2 Radiated Emissions Measurement Test Procedure

Before final measurements of radiated emissions were made on the open-field three/ten meter range, the EUT was scanned indoors at one and three meter distances. This was done to determine its emission spectrum signature. The physical arrangement of the test system and associated cabling was varied to determine the effects on the EUT's emissions in amplitude, direction, and frequency. This process was repeated during final radiated emissions measurements on the open-field range at each frequency to ensure that maximum emission amplitudes were achieved.

Final radiated emissions measurements were made on the three/ten-meter, open-field test site. The EUT was placed on a nonconductive turntable 0.8 meters above the ground plane. The spectrum was examined from 9 kHz to the 10^{th} harmonic of the highest fundamental frequency of the transmitter (24.8 GHz).

At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the emission's maximum level. Measurements were taken using both horizontal and vertical antenna polarizations. For frequencies between 30 and 1000 MHz, the spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. For emissions above 1000 MHz, emissions are measured using the average detector function with a minimum resolution bandwidth of 1 MHz. No video filter, less than 10 times the resolution bandwidth was used. The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

10.3 Field Strength to EIRP Conversion and Margin Calculation

Radiated spurious and harmonic emissions were measured in units of field strength (dBµV/m) at a separation distance of 3 meters using a peak detector. The measured analyzer level was corrected using the applicable site correction factor (including antenna factor, preamplifier gain, and cable loss) to obtain the final radiated field strength at the measurement distance, expressed in dBµV/m:

$$Peak_{\text{corr}}\ (\text{dBµV/m}) = Peak_{\text{Analyzer}}\ (\text{dBµV/m}) + SCF\ (\text{dB})$$

The corrected field strength was converted to equivalent radiated power (EIRP) in dBm using the free-space relationship between electric field strength and radiated power at the measurement distance:

$$\text{EIRP (dBm)} = Peak_{\text{corr}}\ (\text{dBµV/m}) - 95.2 +$$

where d is the measurement distance in meters ($d = 3$m for this evaluation). All measurements were performed using a resolution bandwidth (RBW) of 1 MHz, or the measured power was integrated and normalized to a 1 MHz reference bandwidth, as required by FCC §15.407 for out-of-band and spurious emissions. Accordingly, the resulting EIRP values are expressed in dBm/MHz. Compliance margins were calculated as the difference between the measured EIRP and the applicable FCC §15.407 out-of-band emission limit:

$$\text{Margin (dB)} = \text{Measured EIRP (dBm/MHz)} - \text{Limit (dBm/MHz)}$$

Negative margin values indicate compliance with the applicable FCC §15.407 radiated spurious emission limits.

Table 10-1: Radiated Emissions Test Equipment

RTL Asset Number	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900772	EMCO	3161-02	Horn Antenna (2.0–4.0 GHz)	9804-1044	08/05/2027
900321	EMCO	3161-03	Horn Antennas (4.0–8.2 GHz)	9508-1020	08/05/2027
900323	EMCO	3160-7	Horn Antennas (8.2–12.4 GHz)	9605-1054	08/05/2027
900356	EMCO	3160-08	Horn Antenna (12.4–18.0 GHz)	9607-1044	08/05/2027
901218	EMCO	3160-09	Horn Antenna (18.0–26.5 GHz)	960281-003	08/05/2027
901303	EMCO	3160-10	Horn Antenna (26.5-40.0 GHz) WR-28	960452-007	08/05/2027
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	03/27/2026
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz-22 GHz)	9009303138A07771	03/27/2027
901669	ETS-Lindgren	3142E	Biconilog Antenna (30 MHz–6000 MHz)	00166065	07/11/2027
900932	Hewlett Packard	8449B OPT H02	Preamplifier 1-26.5 GHz	3008A00505	01/30/2027
901727	Insulated Wire Inc.	KPS-1503-360-KPR	SMK RF Cables 36"	NA	11/30/2027
901729	Insulated Wire Inc.	KPS-1503-3150-KPR	SMK RF Cables 20'	NA	12/29/2027
901477	Micro-Coax	UFA210A-0-0360-300300	RF cable 0.04-18 GHz	212349-002	09/01/2027
900905	Rhein Tech Laboratories	PR-1040	OATS 1 Preamplifier 40dB (30 MHz–2 GHz)	1006	01/30/2027
901672	Rohde & Schwarz	FSEM30	Spectrum Analyzer	FSEM30	03/29/2027
900913	Hewlett Packard	85462A	EMI Receiver RF Section (9 kHz–6.5 GHz)	3325A00159	9/16/2027
900914	Hewlett Packard	8546OA	RF Filter Section 100 kHz-6.5 GHz	3330A00107	9/16/2027

10.4 Radiated Emissions Test Results

Table 10-2: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Pressure (kPa)
February 13, 2026	40	42	102.5

Per FCC §15.407, the average EIRP limit for emissions outside the band is −27 dBm/MHz. Peak emissions are evaluated using the peak detector with a peak limit of 20 dB above the average limit (i.e., −7 dBm/MHz) in accordance with §15.35. Results are expressed in dBm/MHz using 1 MHz RBW or equivalent normalization to a 1 MHz reference bandwidth.

Table 10-3: Radiated Emissions Harmonics/Spurious – 5180 MHz, Peak Detector

Frequency (MHz)	Peak Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Peak Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Peak Limit (dBm/MHz)	Peak Margin (dB)
10400	34	9.3	43.3	-51.9	-7	-44.9
15600	34	14.9	48.9	-46.3	-7	-39.3
20800	34	20.9	54.9	-40.3	-7	-33.3
26000	24.5	26.1	50.6	-44.6	-7	-37.6
31200	14.4	61.3	75.7	-19.5	-7	-12.5
36400	13	63.5	76.5	-18.7	-7	-11.7

Table 10-4: Radiated Emissions Harmonics/Spurious – 5200 MHz, Peak Detector

Frequency (MHz)	Peak Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Peak Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Peak Limit (dBm/MHz)	Peak Margin (dB)
10480	34	9.3	43.3	-51.9	-7	-44.9
15720	34	15.1	49.1	-46.1	-7	-39.1
20960	34	20.9	54.9	-40.3	-7	-33.3
26200	24.5	26.8	51.3	-43.9	-7	-36.9
31440	14.5	63.9	78.4	-16.8	-7	-9.8
36680	13.9	66.7	80.6	-14.6	-7	-7.6

Table 10-5: Radiated Emissions Harmonics/Spurious – 5240 MHz, Peak Detector

Frequency (MHz)	Peak Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Peak Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Peak Limit (dBm/MHz)	Peak Margin (dB)
10480	34	9.3	43.3	-51.9	-7	-44.9
15720	34	15.1	49.1	-46.1	-7	-39.1
20960	34	20.9	54.9	-40.3	-7	-33.3
26200	24.5	26.8	51.3	-43.9	-7	-36.9
31440	14.5	63.9	78.4	-16.8	-7	-9.8
36680	13.9	66.7	80.6	-14.6	-7	-7.6

Table 10-6: Radiated Emissions Harmonics/Spurious – 5745 MHz, Peak Detector

Frequency (MHz)	Peak Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Peak Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Peak Limit (dBm/MHz)	Peak Margin (dB)
11490	34	9.8	43.8	-51.4	-7	-44.4
17235	34	15.4	49.4	-45.8	-7	-38.8
22980	34	22.6	56.6	-38.6	-7	-31.6
28725	15.3	60.3	75.6	-19.6	-7	-12.6
34470	8.9	64.9	73.8	-21.4	-7	-14.4

Table 10-7: Radiated Emissions Harmonics/Spurious – 5785 MHz, Peak Detector

Frequency (MHz)	Peak Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Peak Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Peak Limit (dBm/MHz)	Peak Margin (dB)
11570	34	10	44	-51.2	-7	-44.2
17355	34	15.6	49.6	-45.6	-7	-38.6
23140	34	22.8	56.8	-38.4	-7	-31.4
28925	15.9	60.2	76.1	-19.1	-7	-12.1
34710	10	65.2	75.2	-20	-7	-13

Table 10-8: Radiated Emissions Harmonics/Spurious – 5825 MHz, Peak Detector

Frequency (MHz)	Peak Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Peak Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Peak Limit (dBm/MHz)	Peak Margin (dB)
11650	34	10	44	-51.2	-7	-44.2
17475	34	15.8	49.8	-45.4	-7	-38.4
23300	34	22.7	56.7	-38.5	-7	-31.5
29125	15.3	60	75.3	-19.9	-7	-12.9
34950	12.9	65.8	78.7	-16.5	-7	-9.5

Table 10-9: Radiated Emissions Harmonics/Spurious – 5180 MHz, Average Detector

Frequency (MHz)	Average Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Average Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Average Limit (dBm/MHz)	Average Margin (dB)
10360	31.4	9.3	40.7	-54.5	-27	-27.5
15540	30.4	15	45.4	-49.8	-27	-22.8
20720	32.2	20.8	53	-42.2	-27	-15.2
25900	22.2	25.7	47.9	-47.3	-27	-20.3
31080	4.3	61.1	65.4	-29.8	-27	-2.8
36260	0.4	62.8	63.2	-32	-27	-5

Table 10-10: Radiated Emissions Harmonics/Spurious – 5200 MHz, Average Detector

Frequency (MHz)	Average Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Average Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Average Limit (dBm/MHz)	Average Margin (dB)
10400	31.1	9.3	40.4	-54.8	-27	-27.8
15600	32.3	14.9	47.2	-48	-27	-21
20800	32.7	20.9	53.6	-41.6	-27	-14.6
26000	21.8	26.1	47.9	-47.3	-27	-20.3
31200	0.9	61.3	62.2	-33	-27	-6
36400	0.4	63.5	63.9	-31.3	-27	-4.3

Table 10-11: Radiated Emissions Harmonics/Spurious – 5240 MHz, Average Detector

Frequency (MHz)	Average Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Average Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Average Limit (dBm/MHz)	Average Margin (dB)
10480	29.9	9.3	39.2	-56	-27	-29
15720	31.1	15.1	46.2	-49	-27	-22
20960	32.4	20.9	53.3	-41.9	-27	-14.9
26200	30.2	26.8	57	-38.2	-27	-11.2
31440	-0.2	63.9	63.7	-31.5	-27	-4.5
36680	-1.6	66.7	65.1	-30.1	-27	-3.1

Table 10-12: Radiated Emissions Harmonics/Spurious – 5745 MHz, Average Detector

Frequency (MHz)	Average Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Average Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Average Limit (dBm/MHz)	Average Margin (dB)
11490	30.7	9.8	40.5	-54.7	-27	-27.7
17235	30.4	15.4	45.8	-49.4	-27	-22.4
22980	31.9	22.6	54.5	-40.7	-27	-13.7
28725	2.3	60.3	62.6	-32.6	-27	-5.6
34470	2.2	64.9	67.1	-28.1	-27	-1.1

Table 10-13: Radiated Emissions Harmonics/Spurious – 5785 MHz, Average Detector

Frequency (MHz)	Average Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Average Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Average Limit (dBm/MHz)	Average Margin (dB)
11570	31	10	41	-54.2	-27	-27.2
17355	31.4	15.6	47	-48.2	-27	-21.2
23140	31.1	22.8	53.9	-41.3	-27	-14.3
28925	5.4	60.2	65.6	-29.6	-27	-2.6
34710	2.4	65.2	67.6	-27.6	-27	-0.6

Table 10-14: Radiated Emissions Harmonics/Spurious – 5825 MHz, Average Detector

Frequency (MHz)	Average Analyzer (dBµV/m)	Site Correction Factor (dB/m)	Average Corrected (dBµV/m)	EIRP @ 3 m (dBm)	Average Limit (dBm/MHz)	Average Margin (dB)
11650	30.4	10	40.4	-54.8	-27	-27.8
17475	30.7	15.8	46.5	-48.7	-27	-21.7
23300	31.2	22.7	53.9	-41.3	-27	-14.3
29125	-3	60	57	-38.2	-27	-11.2
34950	-5.7	65.8	60.1	-35.1	-27	-8.1

Table 10-15: Unintentional Emissions Test Data

Temperature: 40.0°F Humidity: 42% Barometric Pressure: 102.5 kPa										
Emission Frequency (MHz)	**Test Detector**	**Antenna Polarity (H/V)**	**Turntable Azimuth (°)**	**Antenna Height (m)**	**Analyzer Reading (dBµV)**	**Site Correction Factor (dB/m)**	**Emission Level (dBµV/m)**	**Limit (dBµV/m)**	**Margin (dB)**	**Pass/ Fail**
30.400	QP	V	260	1.0	47.1	-19.4	27.7	40.0	-12.3	Pass
32.886	QP	H	40	1.0	46.2	-15.2	31.0	40.0	-9.0	Pass
35.411	QP	V	220	1.0	43.3	-16.6	26.7	40.0	-13.3	Pass
37.996	QP	V	80	1.0	48.8	-18.0	30.8	40.0	-9.2	Pass
50.024	QP	V	190	1.0	52.8	-22.8	30.0	40.0	-10.0	Pass
81.062	QP	H	120	1.5	45.6	-28.5	17.1	40.0	-22.9	Pass
144.483	QP	V	230	1.0	51.9	-26.3	25.6	43.5	-17.9	Pass
147.000	QP	V	140	1.0	50.3	-26.0	24.3	43.5	-19.2	Pass
149.543	QP	V	30	1.0	46.5	-25.5	21.0	43.5	-22.5	Pass
240.053	QP	H	70	1.4	57.1	-20.1	37.0	46.0	-9.0	Pass
250.013	QP	V	80	1.0	55.8	-19.5	36.3	46.0	-9.7	Pass
400.000	QP	H	125	1.5	50.1	-17.4	32.7	46.0	-13.3	Pass
681.200	QP	H	320	1.4	34.5	-11.4	23.2	46.0	-22.8	Pass
994.000	QP	V	325	1.0	33.5	-8.0	25.5	54.0	-28.5	Pass
1042.084	AV	H	90	1.5	42.7	-7.3	35.4	54.0	-18.6	Pass
1050.013	AV	H	330	1.1	35.2	-7.0	28.2	54.0	-25.8	Pass
1114.228	AV	H	339	1.0	32.8	-7.2	25.6	54.0	-28.4	Pass

Measurement uncertainty: ±4.7 dB. This measurement uncertainty is an expanded uncertainty at the 95% confidence level, with a coverage factor k=2.

Results: Pass

Test Personnel:

Daniel W. Baltzell		February 13, 2026
Test Engineer	Signature	Date of Test

11 Conclusion

The data in this measurement report show that the L3Harris Technologies, Inc. XL-200P Multi-Band Portable Radio, VHF/UHF/700/800 MHz, FCC ID: OWDTR-0179-E, IC: 3636B-0179, complies with the applicable requirements of FCC Part 15.407 and ISED RSS-247.

THIS IS THE END OF THE TEST REPORT