

FCC Testing of the

Resideo USA LLC.
ADT8AIO

FCC ID: CFS8DL8AIO

In accordance with:
FCC 47 CFR part 15.247

Prepared for: Resideo USA LLC.
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Golden Valley, Minnesota 55427 USA



COMMERCIAL-IN-CONFIDENCE

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Testing	Thierry Jean-Charles	2026-September-23	

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FCC Accreditation Designation Number US1148 New Brighton, MN Test Laboratory	Innovation, Science, and Economic Development Canada Accreditation Site Number 4512A New Brighton, MN Test Laboratory
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EXECUTIVE SUMMARY

Samples of this product were tested and found to be compliant with the standards listed above and the tests shown in Table 1.4-1 of this report.

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	2026-September-10
2	Corrected typos in the test summary of Sections 2.6.6 and 2.7.6.	2026-September-23

1.2 Introduction

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations Section 15.247 for the tests documented herein.



Applicant	Resideo USA LLC.
Manufacturer	Resideo USA LLC
Applicant's Email Address	Christian.Fouth@resideo.com
Model Number(s)	ADT8AIO
Serial Number(s)	ADT_DVT #69 (Radiated and Power Line Emissions Sample) ADT-GW-FCC-#02 (RF Conducted Sample)
FCC ID	CFS8DL8AIO
Hardware Version(s)	REV.C
Software Version(s)	01.34.0
Number of Samples Tested	2
Test Specification/Issue/Date	US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2025
Order Number	721020783
Date of Receipt of EUT	2026-April-01
Start of Test	2026-May-18
Finish of Test	2026-August-24
Name of Engineer(s)	Thierry Jean-Charles Duranta K. Barua Rafael Aguiar Cota
Related Document(s)	ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2025. FCC OET KDB Publication 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of the FCC Rules, April 2 2019 FCC OET KDB Publication 662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc), October 31, 2013.



1.3 Scope of Testing

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations Section 15.247 of the ADT8AIO for the tests documented herein.

1.4 Summary of Results

A summary of the tests carried out in accordance with FCC Part 15.247 is shown below.

Table 1.4-1 – Test Result Summary

Test Parameter	Test Plan (Yes/No)	Test Result	FCC 47 CFR Rule Part	Test Report Page No
Antenna Requirement	Yes	Pass	15.203, 15.204	10
6 dB Bandwidth	Yes	Pass	15.247(a)(2)	12
99% Bandwidth	Yes	Pass	-----	29
Peak Output Power	Yes	Pass	15.247(b)(3)	46
Band-Edge Compliance of RF Conducted Emissions	Yes	Pass	15.247(d)	71
RF Conducted Spurious Emissions	Yes	Pass	15.247(d)	121
Radiated Spurious Emissions into Restricted Frequency Bands	Yes	Pass	15.205, 15.209	141
Power Spectral Density	Yes	Pass	15.247(e)	596
Duty Cycle	Yes	-----	N/A	621
Power Line Conducted Emissions	Yes	Pass	15.207	632



1.5 Product Information

1.5.1 Technical Description

The Tomcat AIO (All-In-One) ADT8AIO 8" Panel is a security interface touch panel that contains four (4) separate on-board radios: a Bluetooth LE (2.4 GHz), a Wi-Fi(2.4GHz), a Z-Wave/Z-Wave LR(908.42/916/912/920MHz) and a RF6 (Zigbee-based, 2.4 GHz), as well as LTE plugin module (FCC ID: RI7LE910CXNF). The test report documents the evaluation results for the 2.4 GHz Wi-Fi radio.

Technical Details

Mode of Operation: IEEE 802.11b/g/n WLAN
Frequency Range: 2412 MHz - 2462 MHz
Number of Channels: 802.11b/g/n 20 MHz: 11
802.11n 40 MHz: 7
Channel Separation: 5 MHz
Data Rate: 802.11b: 1, 2, 5.5, 11 Mbps
802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65 Mbps
Modulations: 802.11b: DQPSK, DBPSK, CCK
802.11g/n: OFDM /64-QAM, 16-QAM, QPSK, BPSK
Antenna Type/Gain: 2x PCB Trace Antennas
Antenna 1 (3.99 dBi), Antenna 2 (2.45 dBi)
Input Power: 120V/60Hz

A full description and detailed product specification details are available from the manufacturer.

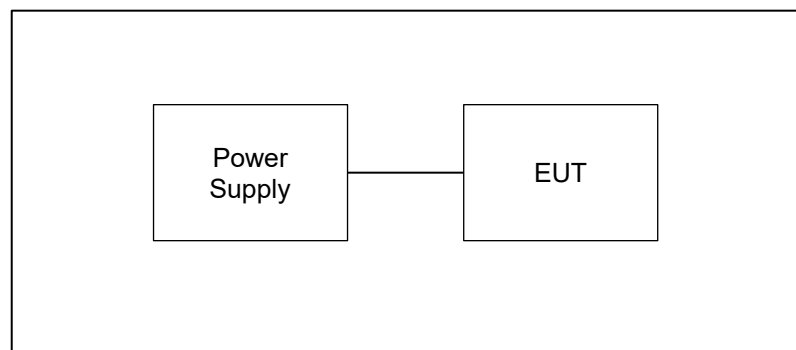


Figure 1.5.1-1 – Test Setup Block Diagram

**Table 1.5.1-1 – Cable Descriptions**

Cable/Port	Description
Power	2.5 m, EUT to Power Supply

Table 1.5.1-2 – Support Equipment Descriptions

Make/Model	Description
Resideo / ADS-25STA-12C	9V 2.5A Class 2 Power Supply

1.5.2 Modes of Operation

The EUT was evaluated for the 2.4 GHz Wi-Fi radio. The EUT was configured through a serial terminal using the output power settings defined by the equipment manufacturer. The EUT was configured to generate a continuously modulated signal on each channel evaluated.

Table 1.5.2-1: Frequencies Evaluated – 802.11b (Antenna Ports 1 and 2)

Channel	Channel Number	Frequency (MHz)	Power Setting	Data Rate
Low Channel	1	2412	13	1 Mbps
Middle Channel	6	2437	14	
High Channel	11	2462	13	

Table 1.5.2-2: Frequencies Evaluated – 802.11g (Antenna Ports 1 and 2)

Channel	Channel Number	Frequency (MHz)	Power Setting	Data Rate
Low Channel	1	2412	9	6 Mbps
Middle Channel	6	2437	15	
High Channel	11	2462	7	

Table 1.5.2-3: Frequencies Evaluated – 802.11n 20 MHz (Antenna Ports 1 and 2 + MIMO)

Channel	Channel Number	Frequency (MHz)	Power Setting	Data Rate
Low Channel	1	2412	7	MCS0 (antenna 1, antenna 2) MCS8 (MIMO)
Middle Channel	6	2437	15	
High Channel	11	2462	6	

**Table 1.5.2-4: Frequencies Evaluated – 802.11n 40 MHz (Antenna Ports 1 and 2 + MIMO)**

Channel	Channel Number	Frequency (MHz)	Power Setting	Data Rate
Low Channel	1	2422	5	MCS0 (antenna 1, antenna 2) MCS8 (MIMO)
Middle Channel	4	2437	9	
High Channel	7	2452	4	

Additional channels were also evaluated for radiated band-edge emissions in accordance to ANSI C63.10-2020 Subclause 5.6.3 to address the reduction of the power setting of the channels near the restricted bands.

1.5.3 Monitoring of Performance

The radiated and power line conducted emissions evaluations were performed on an unmodified sample. The sample was placed on the tabletop in its typical operating orientation. Refer to the test setup photos for more information.

For the RF conducted measurements, the EUT was configured with coaxial connectors at the antenna ports to allow direct coupling to the measurement equipment.

1.5.4 Performance Criteria

The EUT was evaluated for the performance criteria defined below.

Table 1.5.4-1: Performance Criteria

Parameter	Requirement
Antenna Requirement	FCC: Section 15.203. 15.204
6 dB Bandwidth	FCC: Section 15.247(a)(2)
99% Bandwidth	N/A
Peak Output Power	FCC: Section 15.247(b)(3)
Band-Edge Compliance of RF Conducted Emissions	FCC: Section 15.247(d)
RF Conducted Spurious Emissions	FCC: Section 15.247(d)
Radiated Spurious Emissions into Restricted Frequency Bands	FCC: Sections 15.205, 15.209
Power Spectral Density	FCC: Section 15.247(e)
Duty Cycle	N/A
Power Line Conducted Emissions	FCC Section 15.207



1.6 Deviations from the Standard

The EUT was evaluated without any deviation from the test standards.

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test program. The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	N/A	N/A	N/A

The equipment was tested as provided without any modifications.

1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our New Brighton, MN Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
AC Powered, Operating		
Antenna Requirement	Thierry Jean-Charles	A2LA
6 dB Bandwidth	Thierry Jean-Charles	A2LA
99% Bandwidth	Thierry Jean-Charles	A2LA
Peak Output Power	Thierry Jean-Charles	A2LA
Band-Edge Compliance of RF Conducted Emissions	Thierry Jean-Charles	A2LA
RF Conducted Spurious Emissions	Thierry Jean-Charles	A2LA
Radiated Spurious Emissions into Restricted Frequency Bands	Thierry Jean-Charles Rafael Aguiar Cota Duranta K. Barua Diego Reyes Olivares	A2LA
Power Spectral Density	Thierry Jean-Charles	A2LA
Duty Cycle	Thierry Jean-Charles	A2LA

Office Address:

TÜV SÜD America, Inc.
141 14th Street NW
New Brighton, MN 55112
USA



2 Test Details

2.1 Antenna Requirements

2.1.1 Specification Reference

FCC: Section 15.203, 15.204.

2.1.2 Equipment Under Test and Modification State

S/N: ADT_DVT #69, refer to Section 1.7.

2.1.3 Date of Test

5/18/2026

2.1.4 Test Method

N/A

2.1.5 Environmental Conditions

Ambient Temperature	N/A
Relative Humidity	N/A
Atmospheric Pressure	N/A

2.1.6 Test Results

Limit Clause FCC Sections: 15.203, 15.204

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ [15.211](#), [15.213](#), [15.217](#), [15.219](#), [15.221](#), or [§ 15.236](#). Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with [§ 15.31\(d\)](#), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Table 2.1.6-1 – Antenna Used In EUT

Antenna Number	Type	Connection Type	Antenna Gain (dBi)
1	PCB Trace Antenna	Integrated PCB Trace	3.99
2	PCB Trace Antenna	Integrated PCB Trace	2.45

**Directional Gain:**

The EUT uses independent antenna paths per the equipment manufacturer. The directional gain is calculated per the FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

The Directional Gain is calculated per Section F 2) d) (ii) where
Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/NANT]$ dBi

$$\begin{aligned}\text{Directional gain} &= 10 \log((10^{3.99/10} + 10^{2.45/10})/2) \\ &= 10 \log((10^{0.399} + 10^{0.245}) / 2) \\ &= 3.2879 \\ &\approx 3.29\end{aligned}$$

Test Summary:

The EUT uses two PCB trace antennas which are integral to the main board. The antennas are not removable and therefore meet the requirements of FCC section 15.203.

Test Result: Pass**2.1.7 Test Location and Test Equipment Used**

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

As this is a visual inspection, no test equipment was used.



2.2 6 dB Bandwidth

2.2.1 Specification Reference

FCC: Section 15.247(a)(2)

2.2.2 Equipment Under Test and Modification State

S/N: ADT-GW-FCC-#02

2.2.3 Date of Test

7/16/2026 to 8/24/2026

2.2.4 Test Method

The 6dB bandwidth was measured in accordance with ANSI C63.10 Subclause 11.8.1 Option 1. The RBW of the spectrum analyzer was set to 100 kHz and VBW 300 kHz. Span was set large enough to capture the emissions and $\gg$ RBW. A peak detector was used for the measurements. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.2.5 Environmental Conditions

Ambient Temperature	21.6 - 24.6°C
Relative Humidity	32 - 43 %
Atmospheric Pressure	976 - 990 mBar

2.2.6 Test Results

AC Powered, Operating

Limit Clause FCC Part 15.247(a)(2)

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Summary:

The minimum 6-dB Bandwidth was measured to be greater than the minimum bandwidth limit of 500 kHz.

Test Result: Pass



Table 2.2.6-1 - 6 dB Bandwidth – Test Results - 802.11b

Configuration	Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Bandwidth Requirement (kHz)	Result
Antenna 1	2412	10073.13	500.00	Pass
Antenna 1	2437	10063.18	500.00	Pass
Antenna 1	2462	10056.90	500.00	Pass
Antenna 2	2412	10065.86	500.00	Pass
Antenna 2	2437	10066.16	500.00	Pass
Antenna 2	2462	10066.71	500.00	Pass

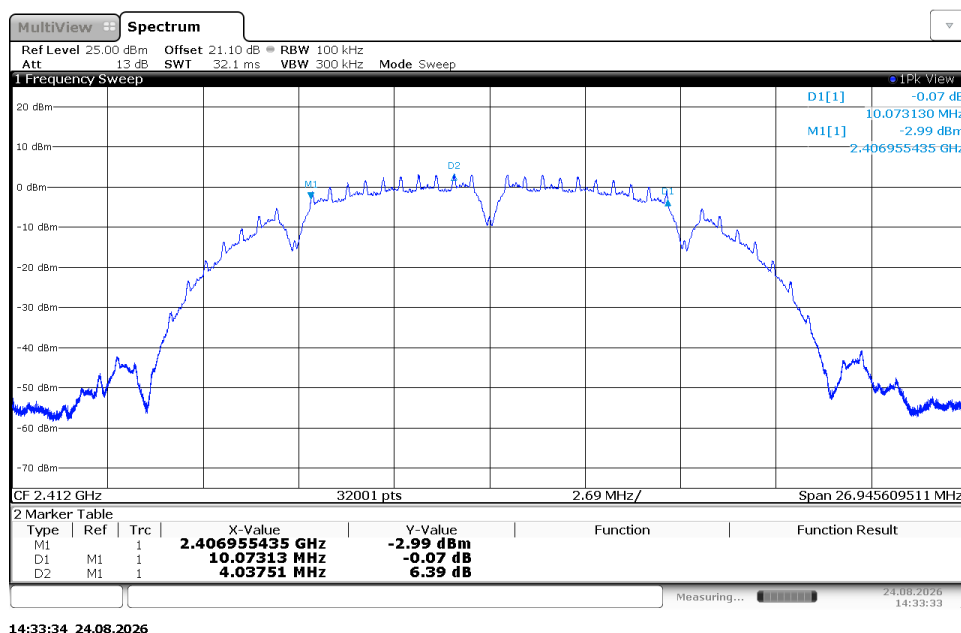


Figure 2.2.6-1 – 6 dB Bandwidth - Antenna 1 - 2412 MHz - 802.11b

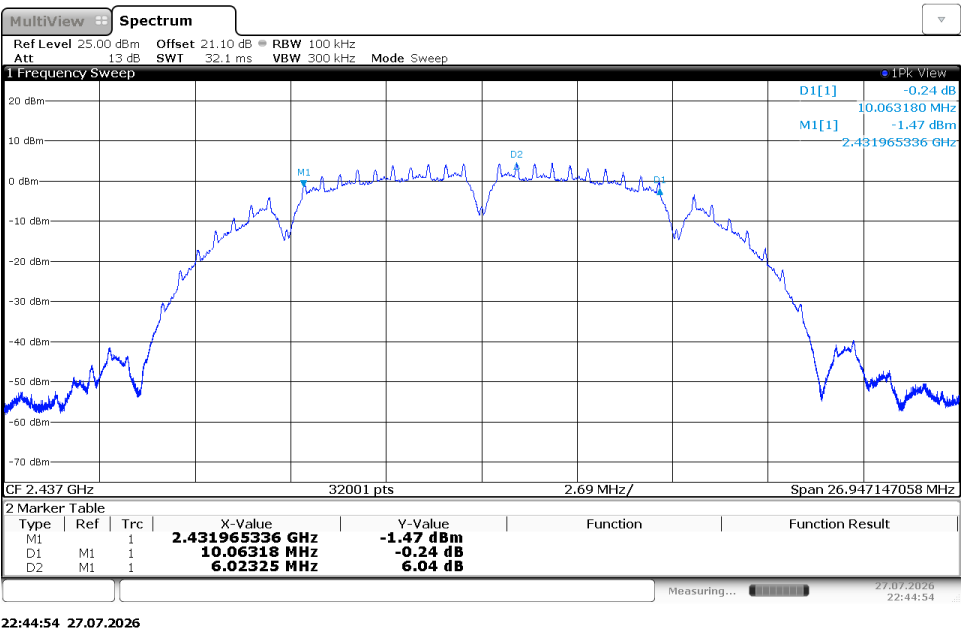


Figure 2.2.6-2 – 6 dB Bandwidth - Antenna 1 - 2437 MHz - 802.11b

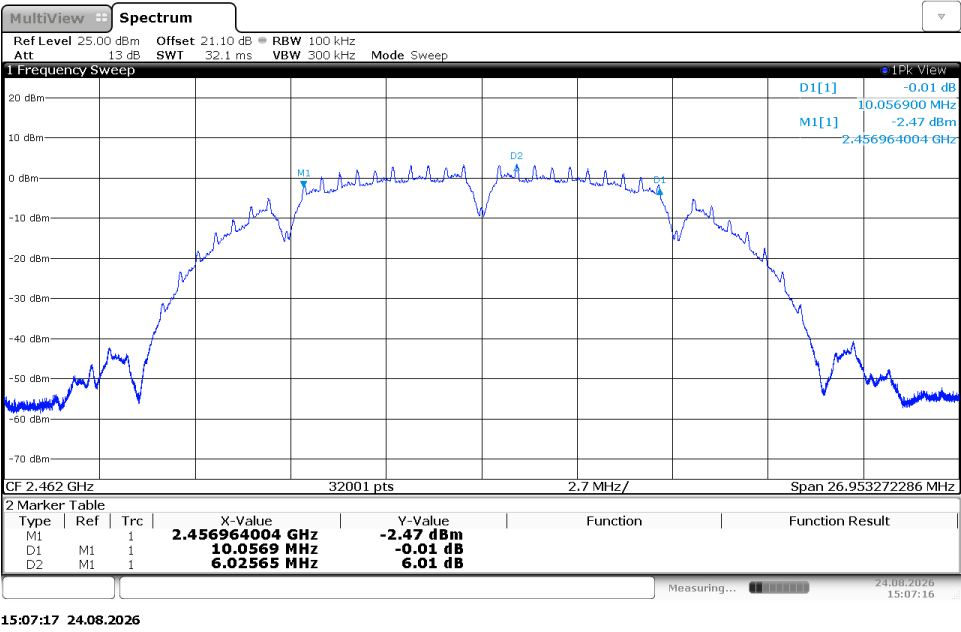
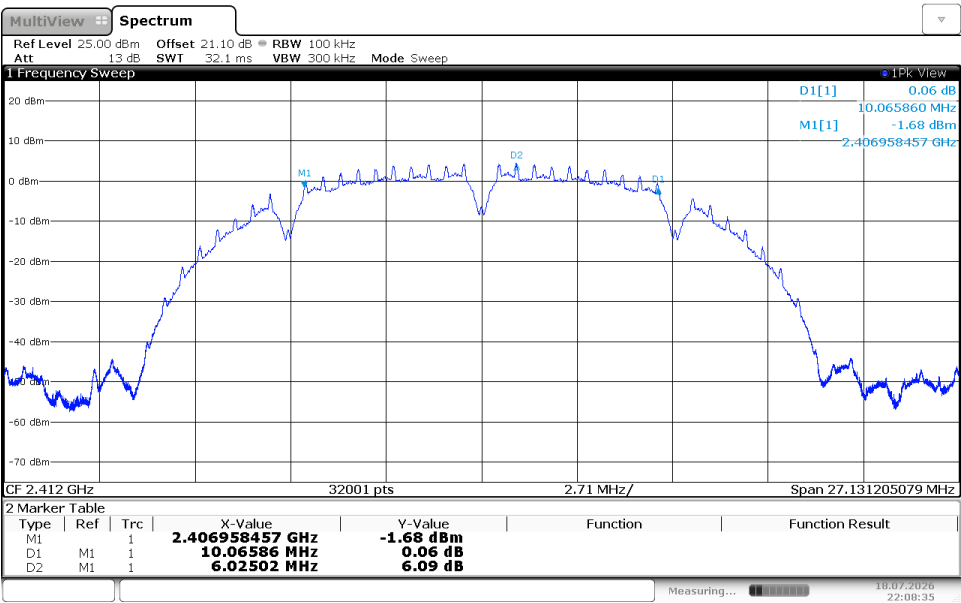
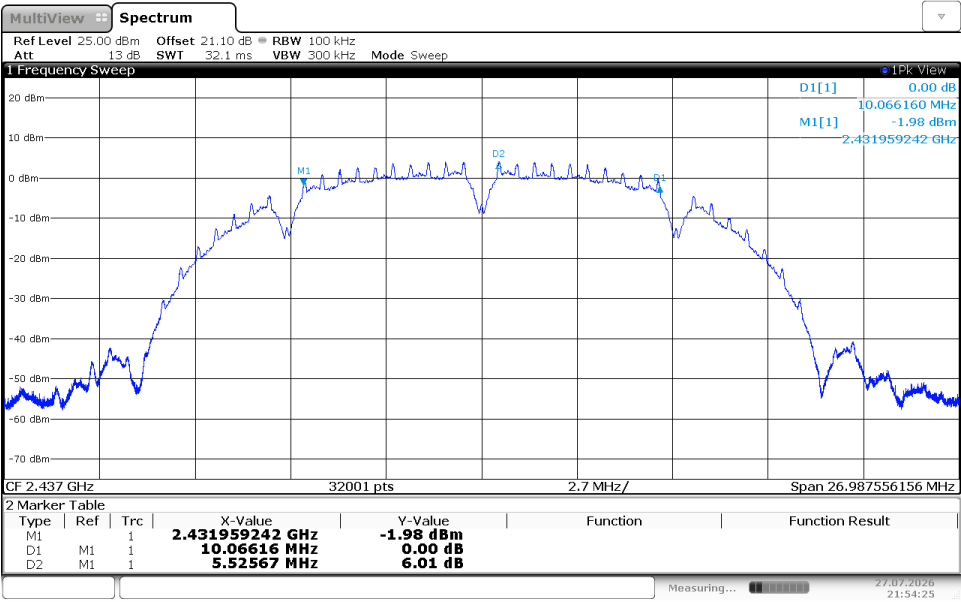


Figure 2.2.6-3 – 6 dB Bandwidth - Antenna 1 - 2462 MHz - 802.11b



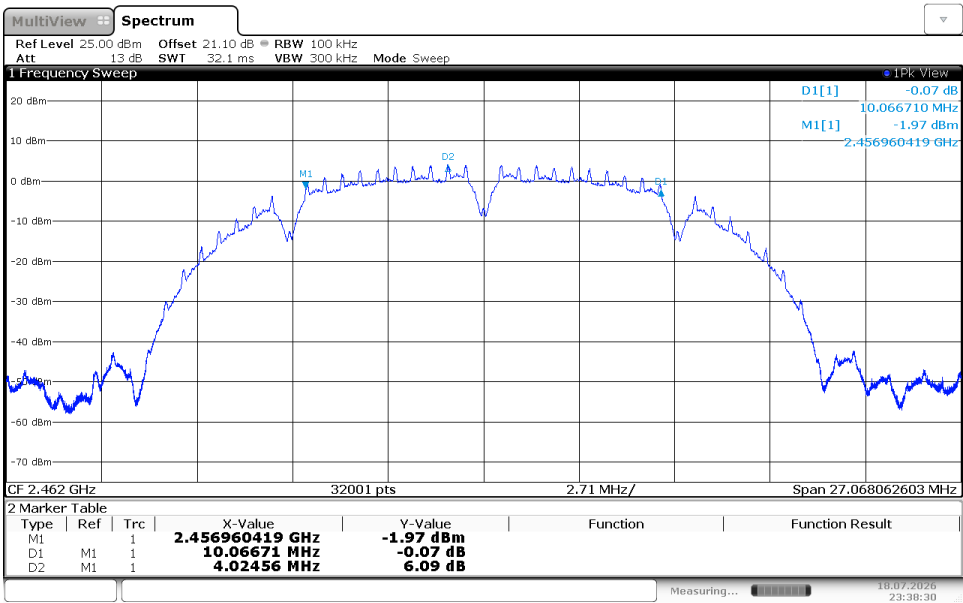
22:08:36 18.07.2026

Figure 2.2.6-4 – 6 dB Bandwidth - Antenna 2 - 2412 MHz - 802.11b



21:54:26 27.07.2026

Figure 2.2.6-5 – 6 dB Bandwidth - Antenna 2 - 2437 MHz - 802.11b



23:38:30 18.07.2026

Figure 2.2.6-6 – 6 dB Bandwidth - Antenna 2 - 2462 MHz - 802.11b



Table 2.2.6-2 - 6 dB Bandwidth Test Results - 802.11g

Configuration	Fundamental Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Bandwidth Requirement (kHz)	Result
Antenna 1	2412	16349.60	500.00	Pass
Antenna 1	2437	16352.60	500.00	Pass
Antenna 1	2462	16348.50	500.00	Pass
Antenna 2	2412	16351.80	500.00	Pass
Antenna 2	2437	16350.30	500.00	Pass
Antenna 2	2462	16352.40	500.00	Pass

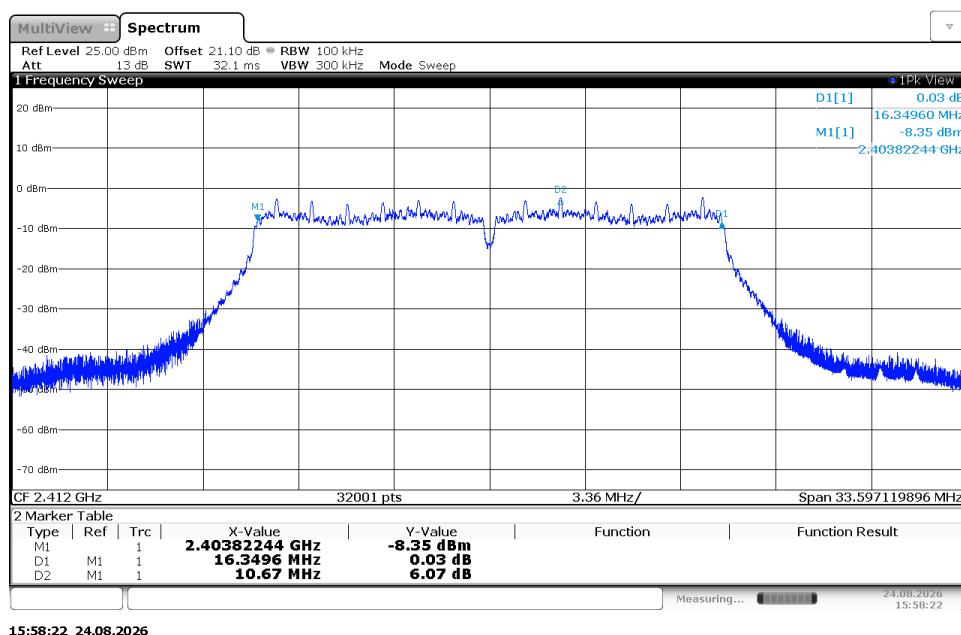


Figure 2.2.6-7 – 6 dB Bandwidth - Antenna 1 - 2412 MHz - 802.11g

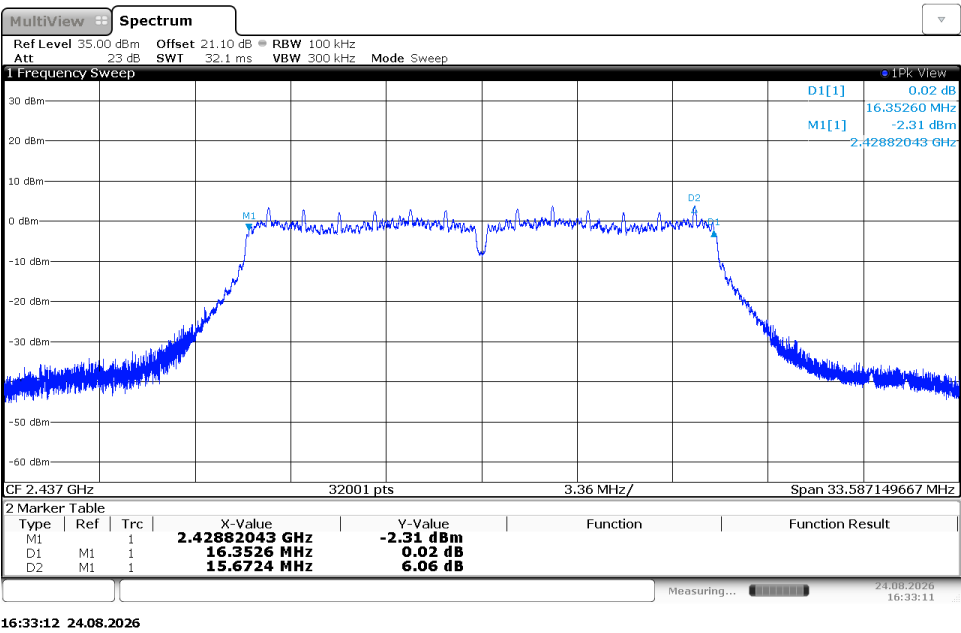


Figure 2.2.6-8 – 6 dB Bandwidth - Antenna 1 - 2437 MHz - 802.11g

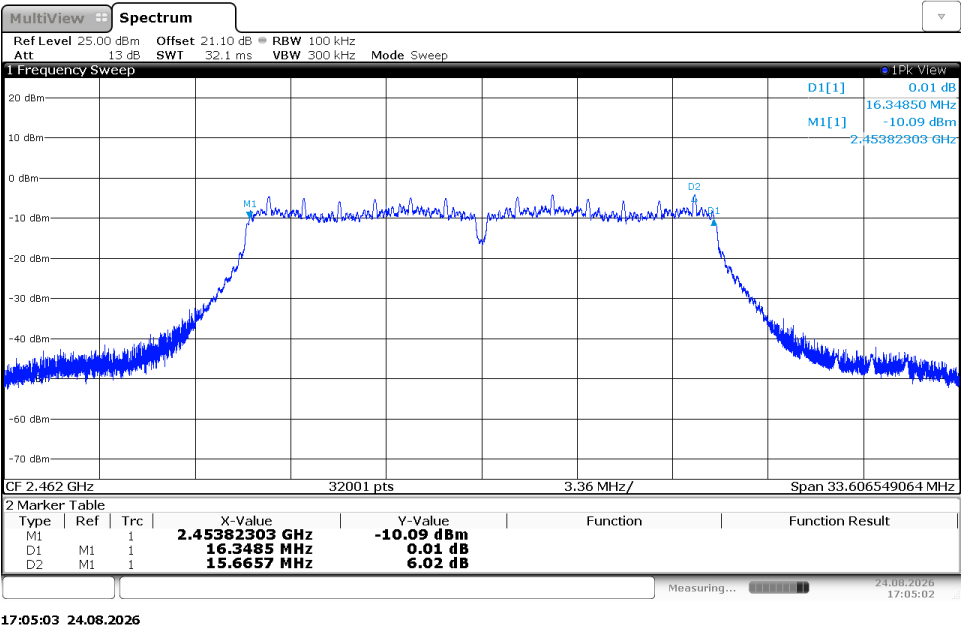


Figure 2.2.6-9 – 6 dB Bandwidth - Antenna 1 - 2462 MHz - 802.11g

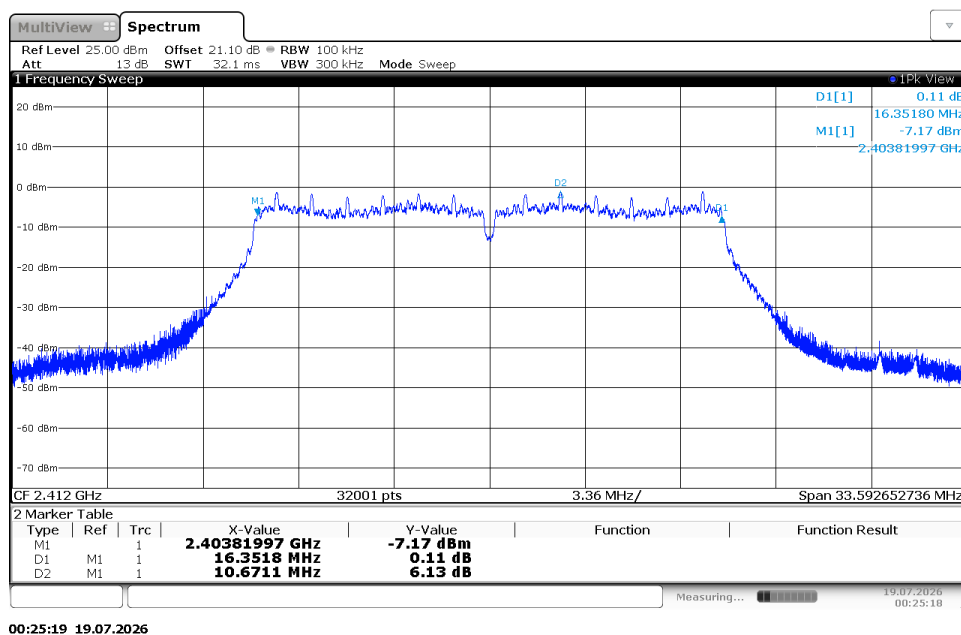


Figure 2.2.6-10 – 6 dB Bandwidth - Antenna 2 - 2412 MHz - 802.11g

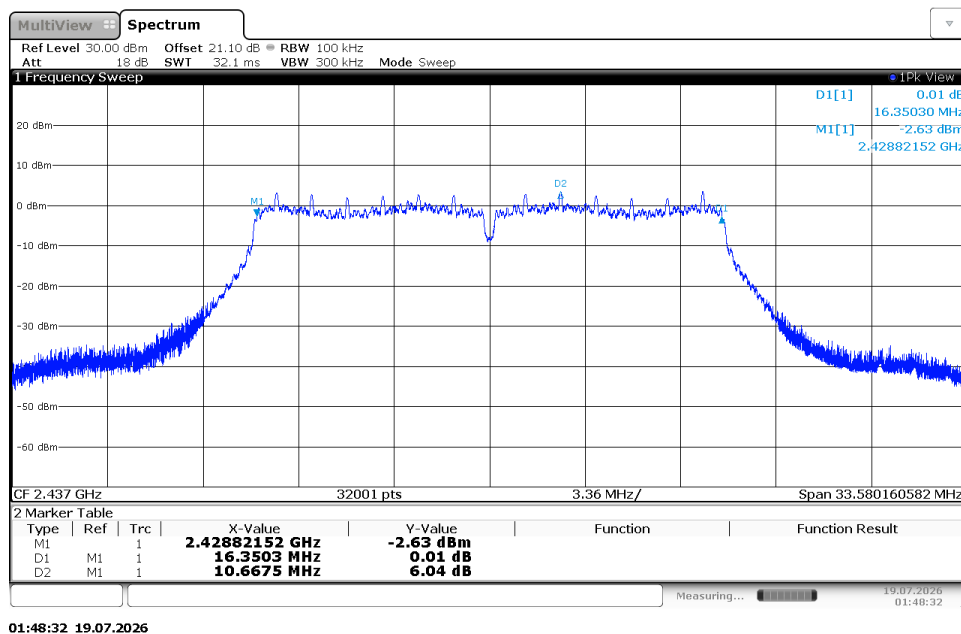
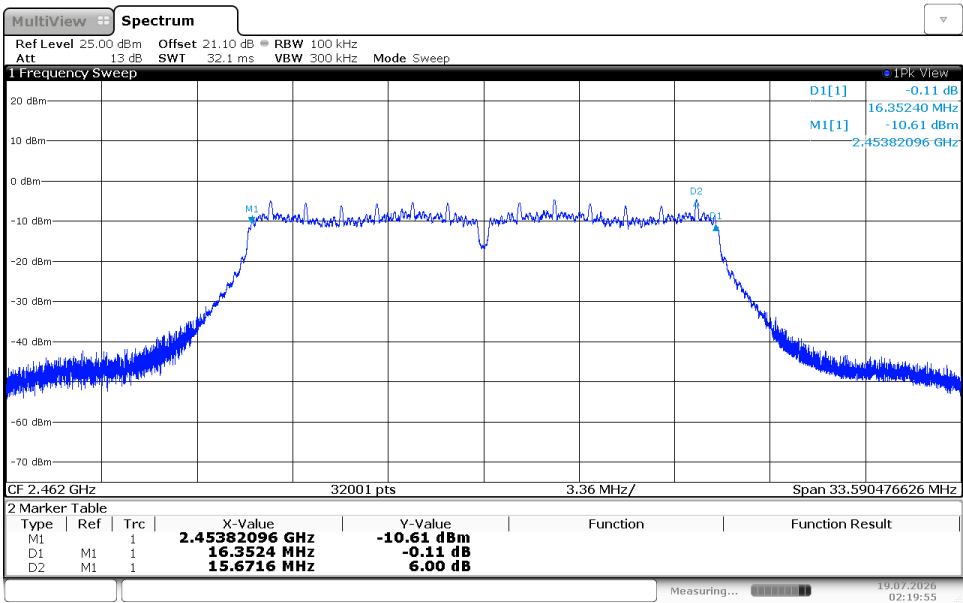


Figure 2.2.6-11 – 6 dB Bandwidth - Antenna 2 - 2437 MHz - 802.11g

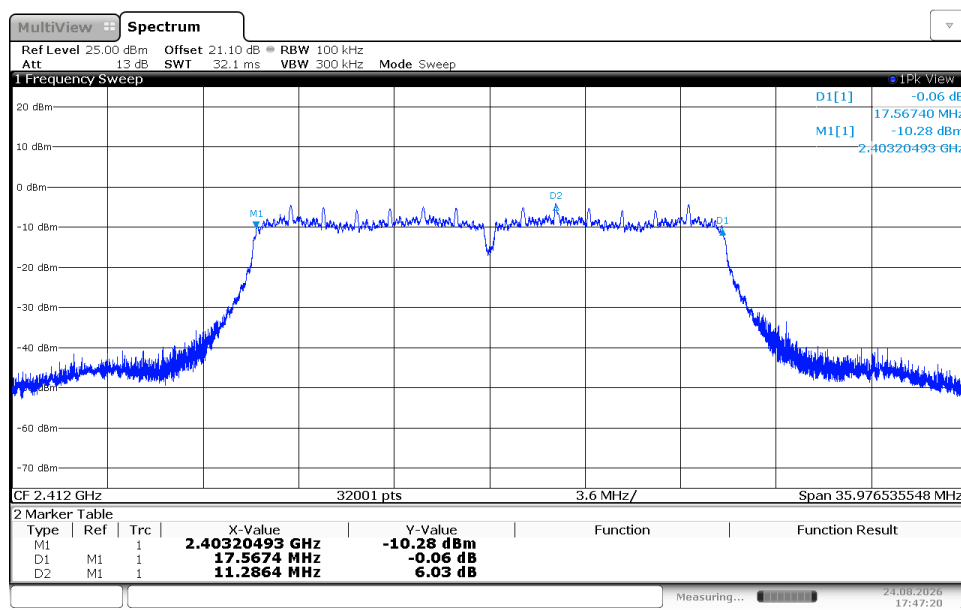


02:19:55 19.07.2026

Figure 2.2.6-12 – 6 dB Bandwidth - Antenna 2 - 2462 MHz - 802.11g

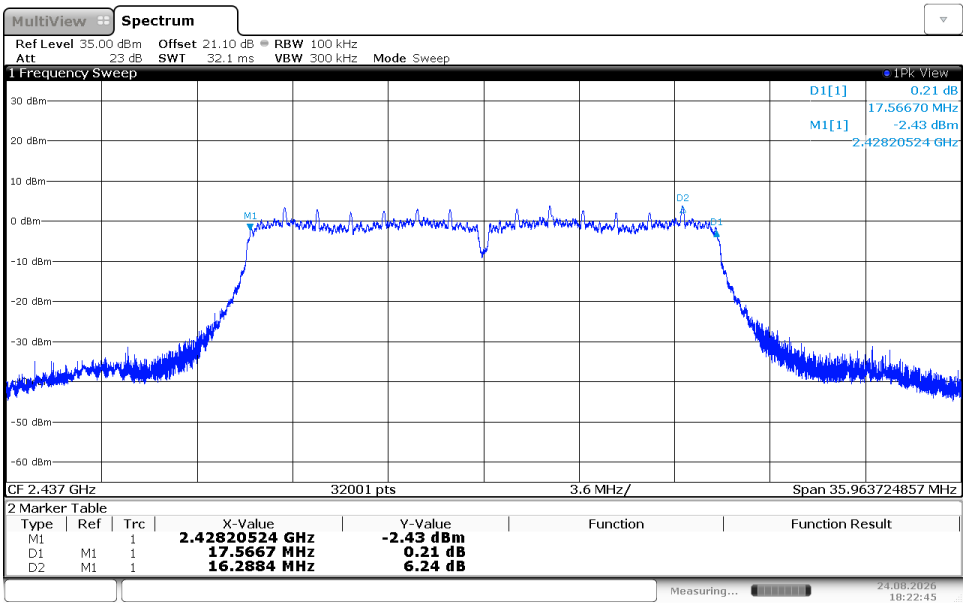
Table 2.2.6-3 - 6 dB Bandwidth - Test Results - 802.11n 20 MHz

Configuration	Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Bandwidth Requirement (kHz)	Result
Antenna 1	2412	17567.40	500.00	Pass
Antenna 1	2437	17566.70	500.00	Pass
Antenna 1	2462	17563.50	500.00	Pass
Antenna 2	2412	17564.50	500.00	Pass
Antenna 2	2437	17566.80	500.00	Pass
Antenna 2	2462	17568.00	500.00	Pass



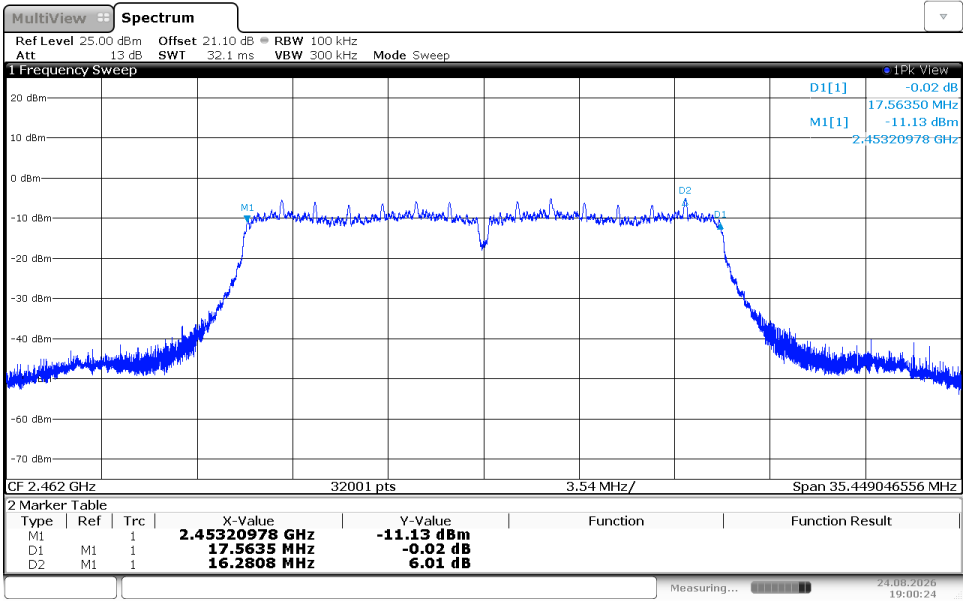
17:47:21 24.08.2026

Figure 2.2.6-13 - 6 dB Bandwidth – Antenna 1 - 2412 MHz - 802.11n20



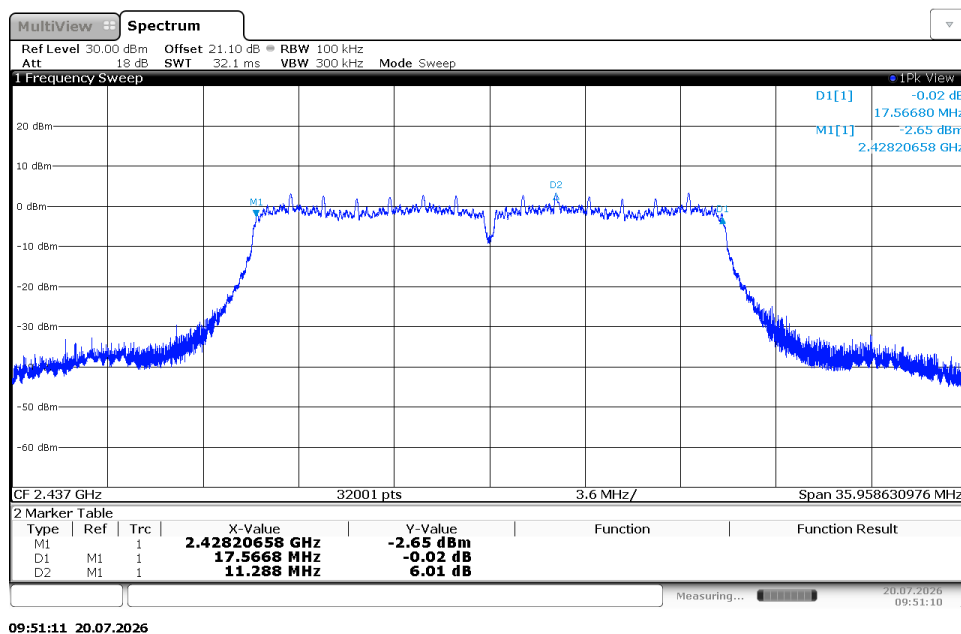
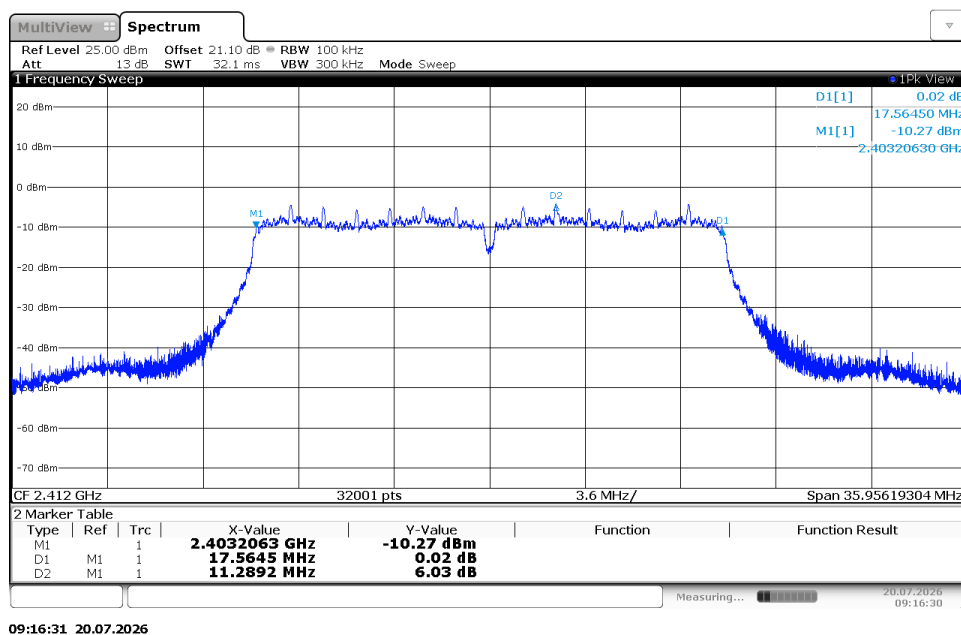
18:22:45 24.08.2026

Figure 2.2.6-14 - 6 dB Bandwidth – Antenna 1 - 2437 MHz - 802.11n20



19:00:25 24.08.2026

Figure 2.2.6-15 - 6 dB Bandwidth – Antenna 1 - 2462 MHz - 802.11n20



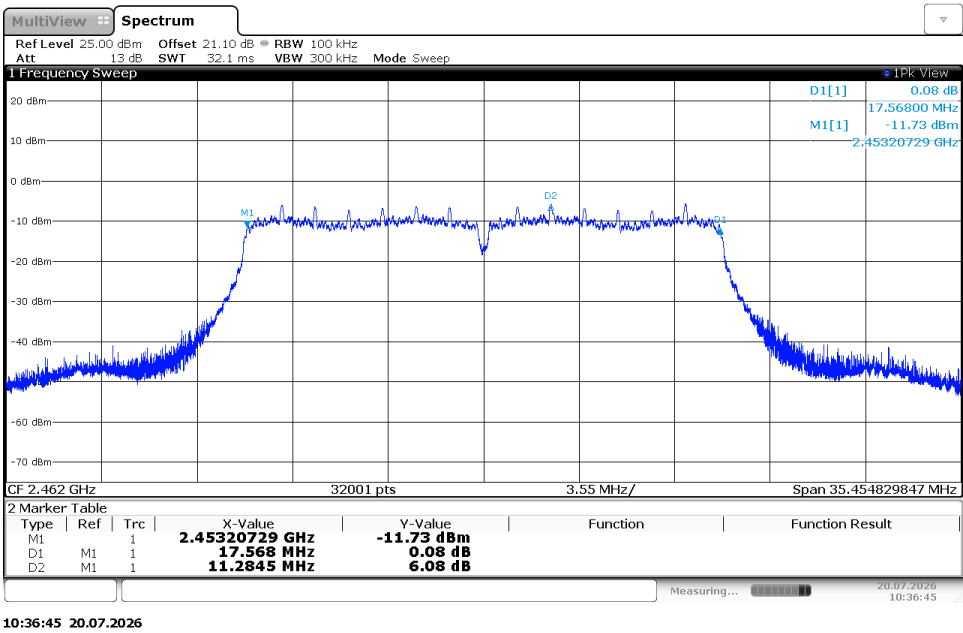


Figure 2.2.6-18 - 6 dB Bandwidth – Antenna 2 - 2462 MHz - 802.11n20

Table 2.2.6-4 – 6 dB Bandwidth Test Results - 802.11n 40 MHz

Configuration	Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Bandwidth Requirement (kHz)	Result
Antenna 1	2422	35808.10	500.00	Pass
Antenna 1	2437	35813.40	500.00	Pass
Antenna 1	2452	35811.10	500.00	Pass
Antenna 2	2422	35811.70	500.00	Pass
Antenna 2	2437	35799.20	500.00	Pass
Antenna 2	2452	35805.10	500.00	Pass

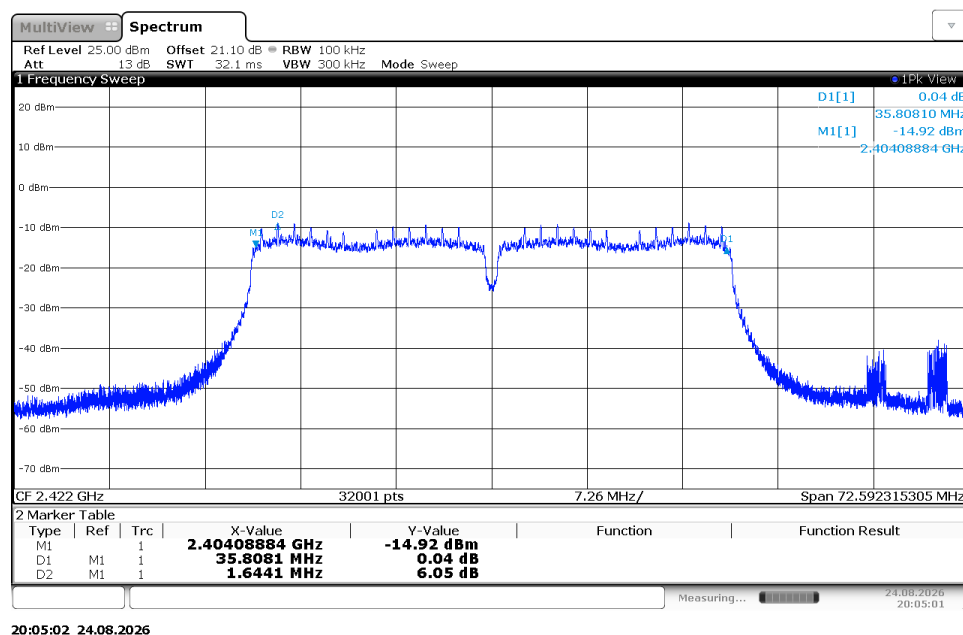


Figure 2.2.6-19 – 6 dB Bandwidth - Antenna 1- 2422 MHz - 802.11n 40 MHz

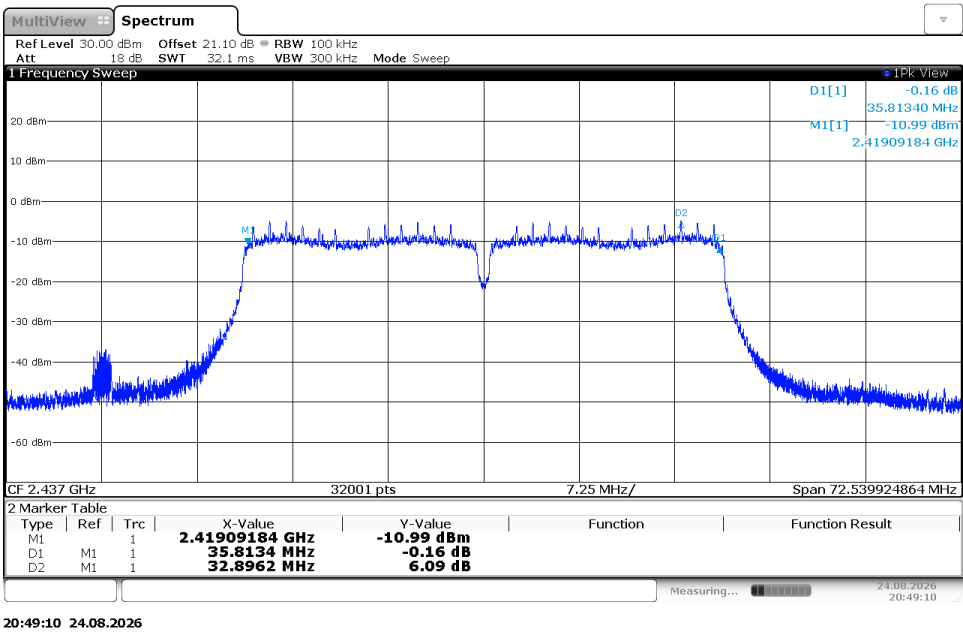


Figure 2.2.6-20 – 6 dB Bandwidth - Antenna 1- 2437 MHz

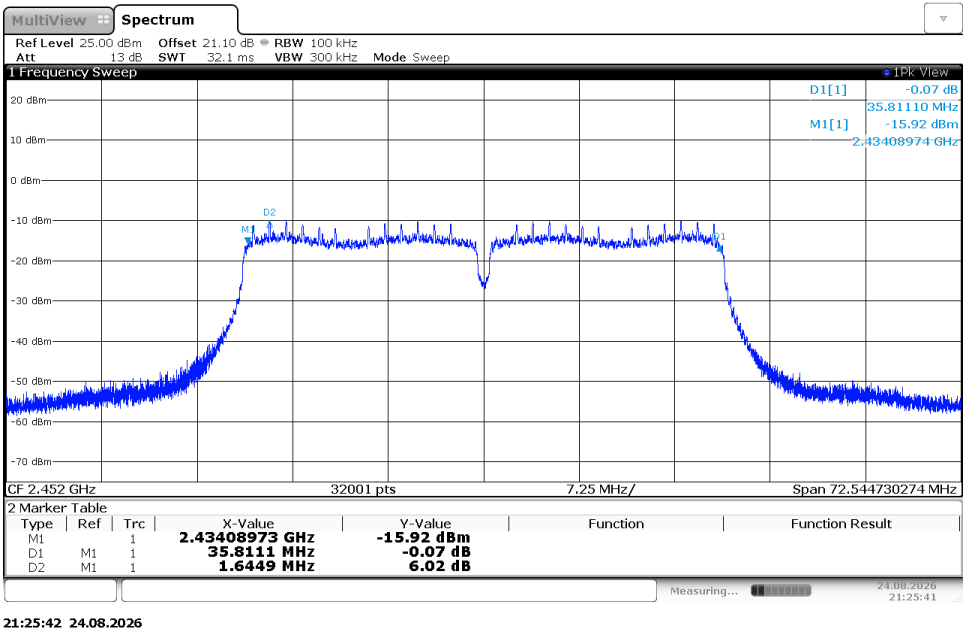
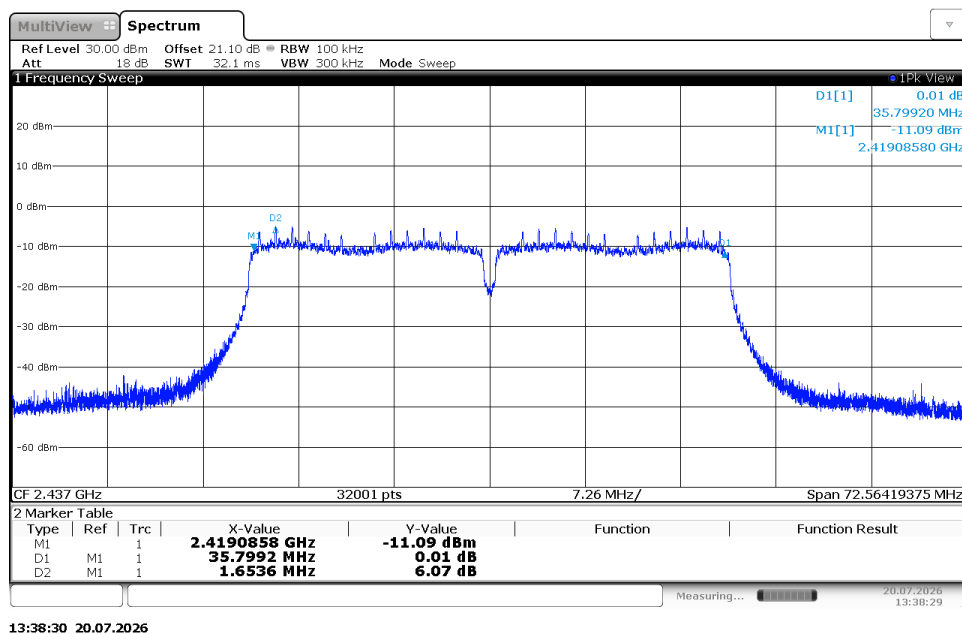
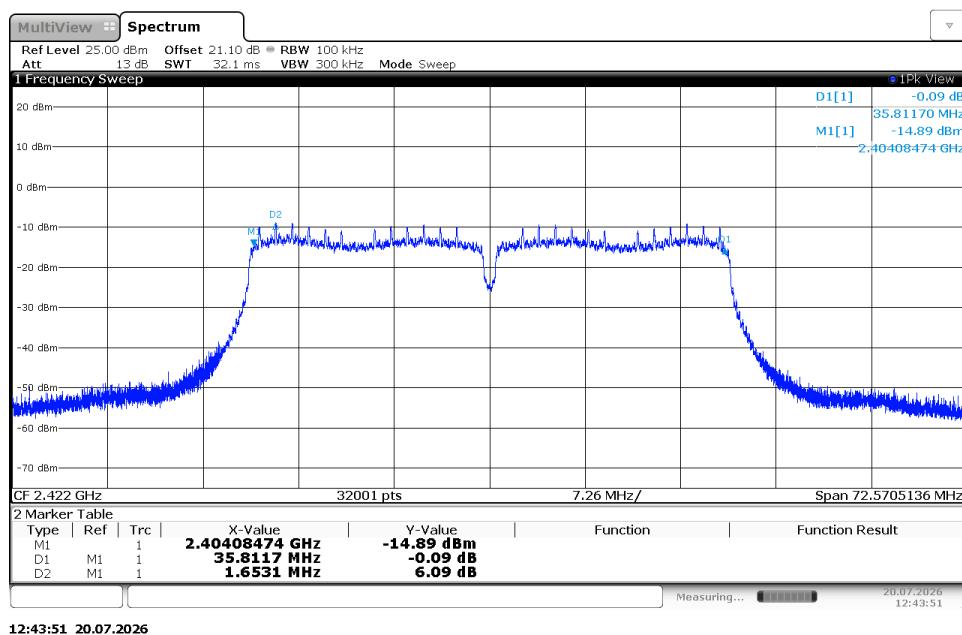


Figure 2.2.6-21 – 6 dB Bandwidth - Antenna 1- 2452 MHz



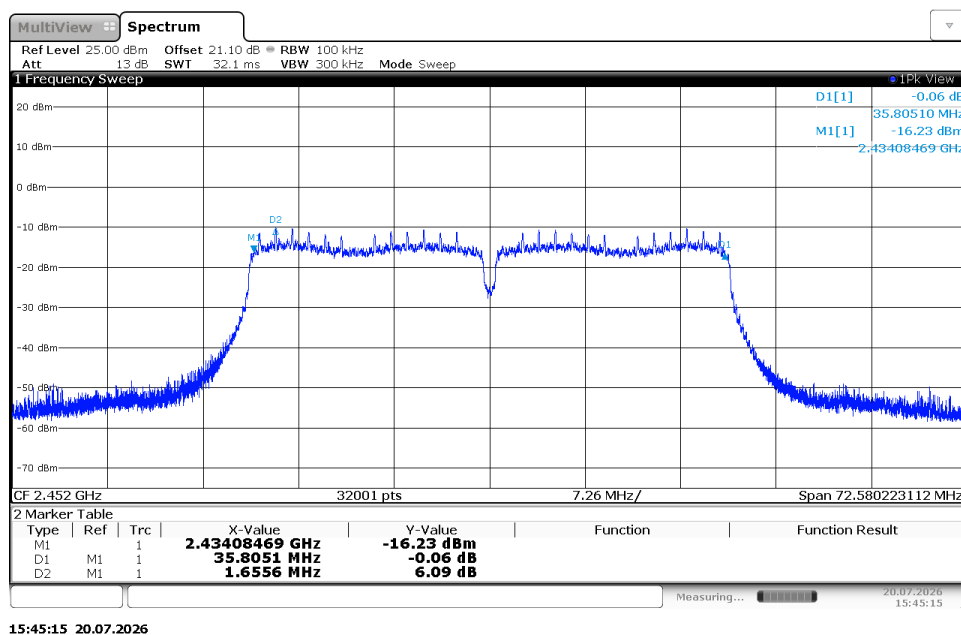


Figure 2.2.6-24 – 6 dB Bandwidth - Antenna 2- 2452 MHz

2.2.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

Device #	Manufacturer	Description	Model	Serial #	Cal Code	Cal Date	Cal Due
DEMC3049	Aeroflex Inmet	Atten 20dB 2.9mm-M/F, DC-26.5GH, 2W	26AH-20	1443	B	05/27/2025 06/12/2026	05/27/2026 06/12/2027
DEMC3085	Rohde & Schwarz	Signal & Spectrum Analyzer	FSW43	103997	G	08/29/2025	08/29/2026
BEMC02112	Teledyne Storm Products	Duratest 175 Cable 26.5GHz	921-0101-036	12-06-698	B	01/12/2026	01/12/2027

Cal Code G = Calibration performed by an accredited outside source.

Cal Code B = Calibration verification performed internally.

Cal Code Y = Passive Device, or Calibration not required when used with other calibrated equipment.

The test equipment was used only during the active cycle of the calibration period.



2.3 99% Bandwidth

2.3.1 Specification Reference

N/A

2.3.2 Equipment Under Test and Modification State

S/N: ADT-GW-FCC-#02

2.3.3 Date of Test

7/16/2026 to 8/24/2026

2.3.4 Test Method

The 99% occupied bandwidth was measured with the spectrum analyzer span set to fully display the emission. The RBW was set to 1% to 5% of the approximated bandwidth. The occupied 99% bandwidth was measured by using 99% bandwidth equipment function of the spectrum analyzer using a peak detector. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.3.5 Environmental Conditions

Ambient Temperature	21.9 to 23°C
Relative Humidity	36 to 41 %
Atmospheric Pressure	978 to 985 mBar

2.3.6 Test Results

AC Powered, Operating

Test Summary:

The 99% Bandwidth was measured and is provided for reference purposes.

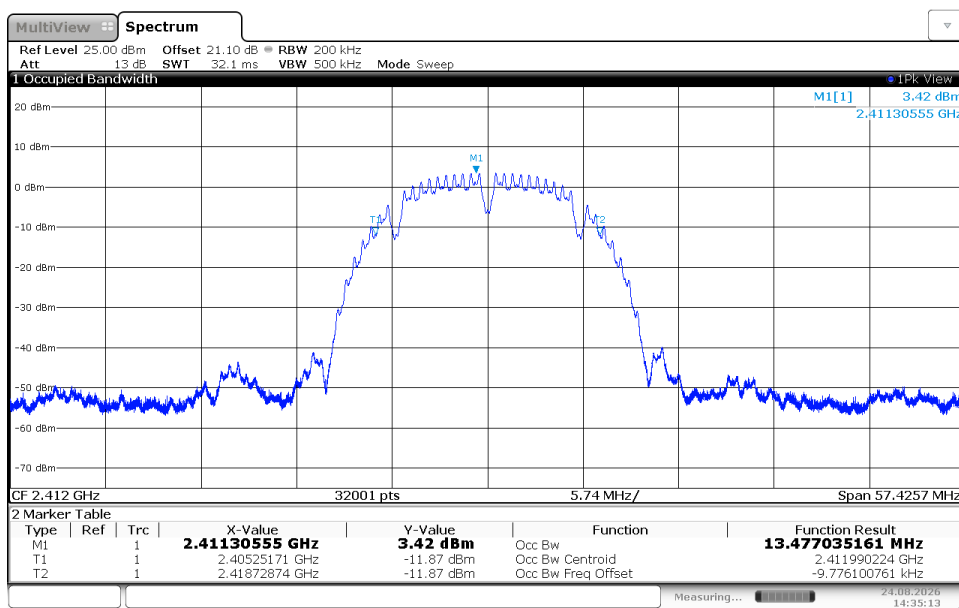
Test Result:

There are no standards limits for the bandwidth. The information is for reference purposes only.



Table 2.3.6-1 - 99% Occupied Bandwidth Results - 802.11b

Configuration	Frequency (MHz)	99% Bandwidth (MHz)
Antenna 1	2412	13.4770
Antenna 1	2437	13.4759
Antenna 1	2462	13.4822
Antenna 2	2412	13.5682
Antenna 2	2437	13.4967
Antenna 2	2462	13.5359



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Figure 2.3.6-1 – 99% Occupied Bandwidth – Antenna 2 - 2412 MHz – 802.11b

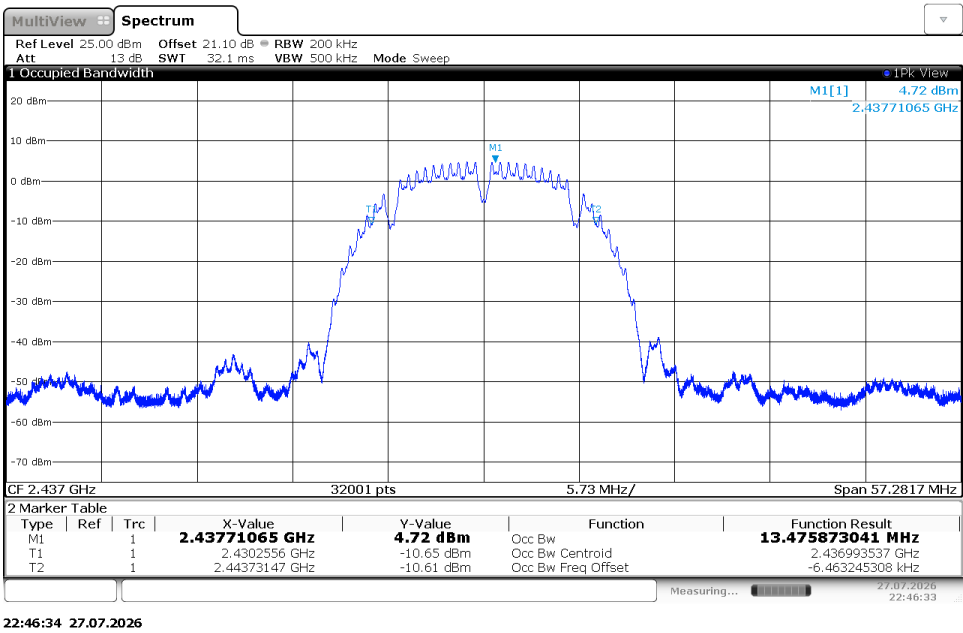


Figure 2.3.6-2 – 99% Occupied Bandwidth – Antenna 1 - 2437 MHz – 802.11b

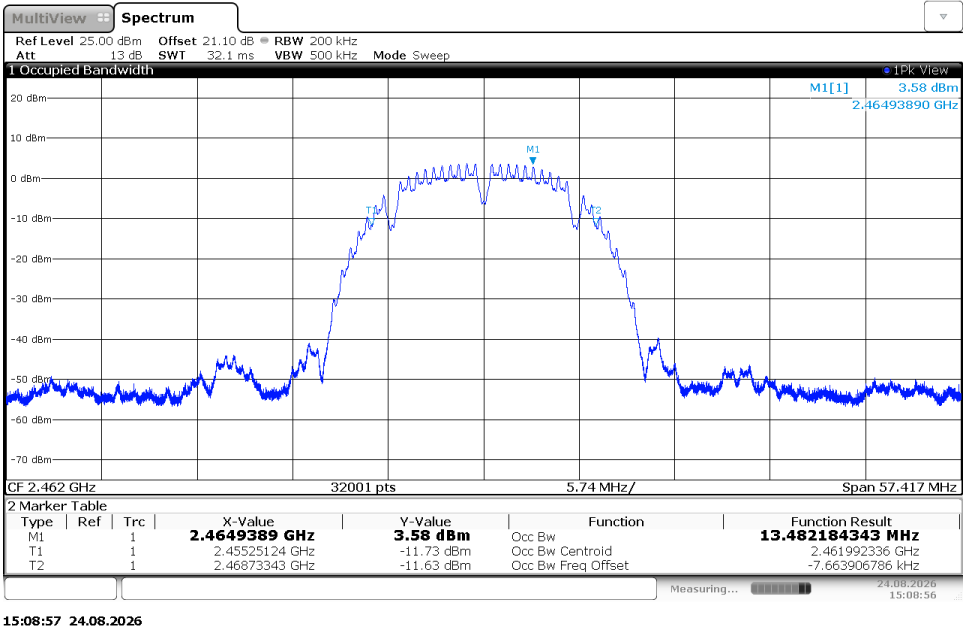


Figure 2.3.6-3 – 99% Occupied Bandwidth – Antenna 1 - 2462 MHz – 802.11b

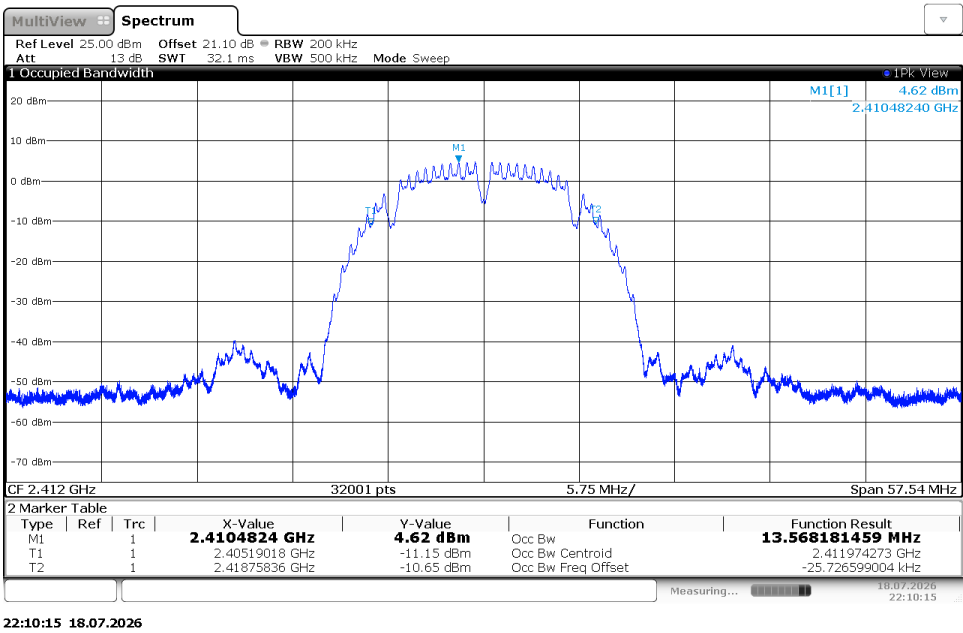


Figure 2.3.6-4 – 99% Occupied Bandwidth – Antenna 2 - 2412 MHz – 802.11b

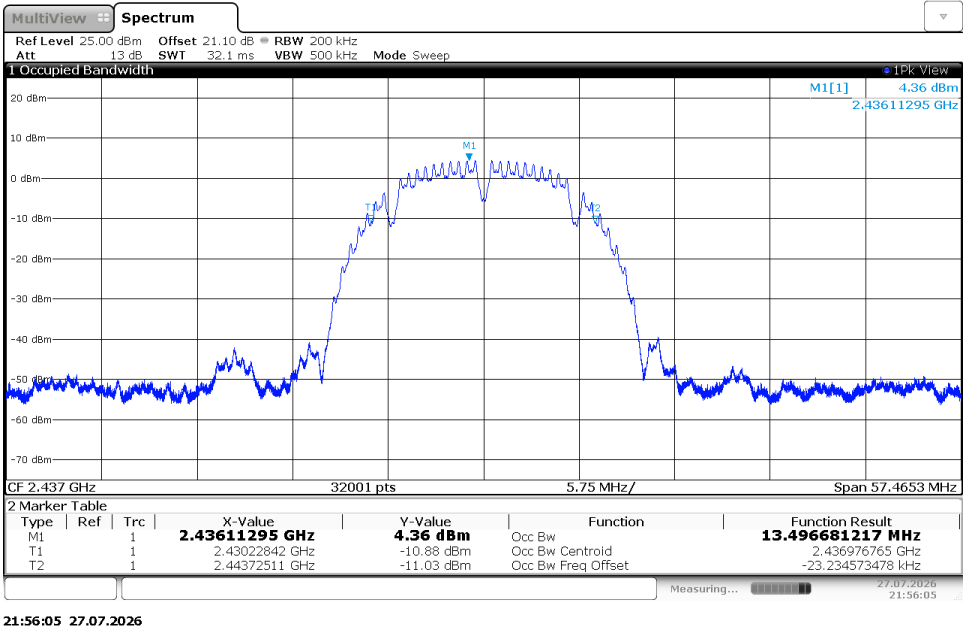
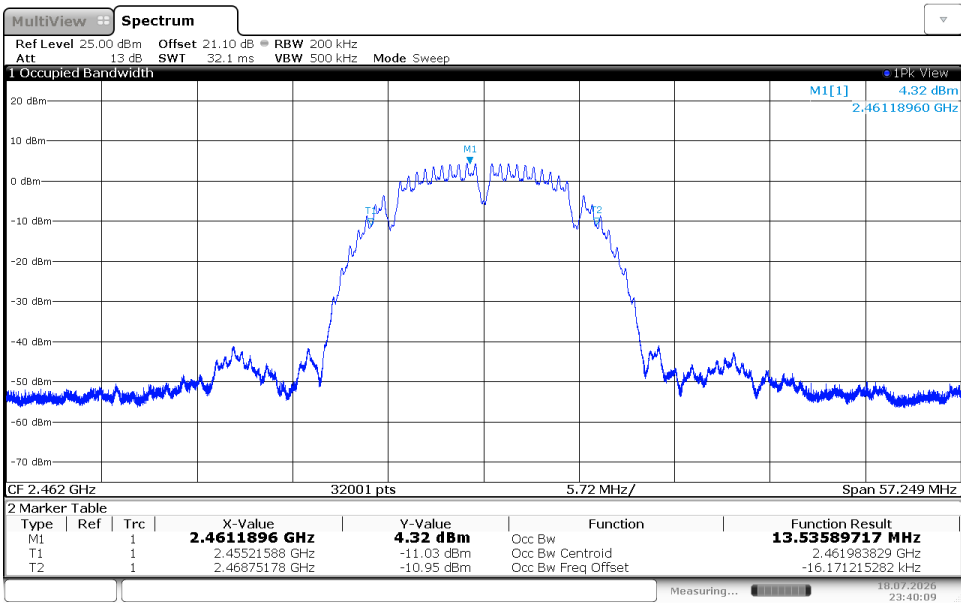


Figure 2.3.6-5 – 99% Occupied Bandwidth – Antenna 2 - 2437 MHz – 802.11b



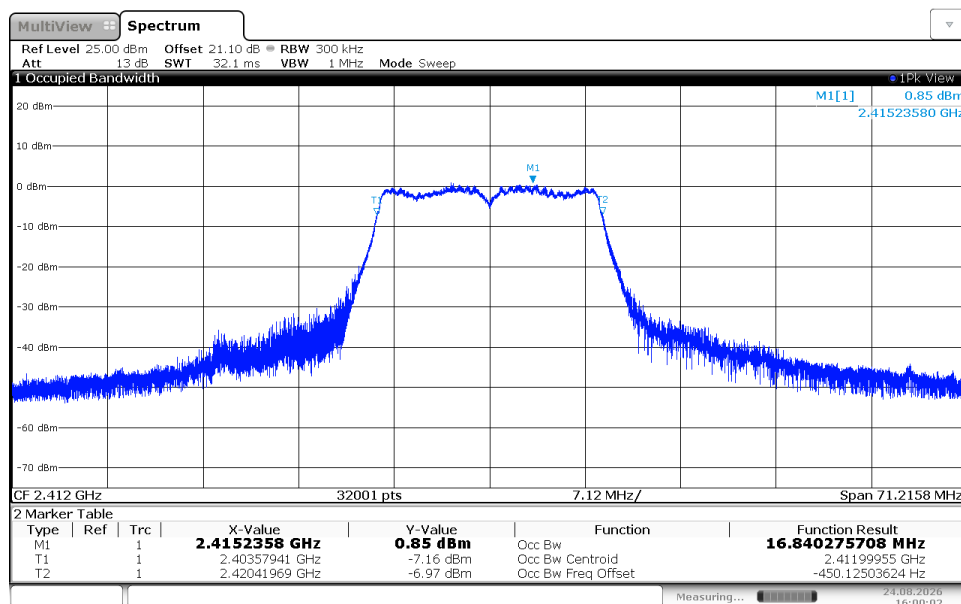
23:40:10 18.07.2026

Figure 2.3.6-6 – 99% Occupied Bandwidth – Antenna 2 - 2462 MHz – 802.11b



Table 2.3.6-2 - 99% Occupied Bandwidth Results – 802.11g

Configuration	Frequency (MHz)	99% Bandwidth (MHz)
Antenna 1	2412	16.8403
Antenna 1	2437	16.8455
Antenna 1	2462	16.8509
Antenna 2	2412	16.8445
Antenna 2	2437	16.8463
Antenna 2	2462	16.8407



16:00:02 24.08.2026

Figure 2.3.6-7 - 99% Occupied Bandwidth - Antenna 1 - 2412 MHz – 802.11g

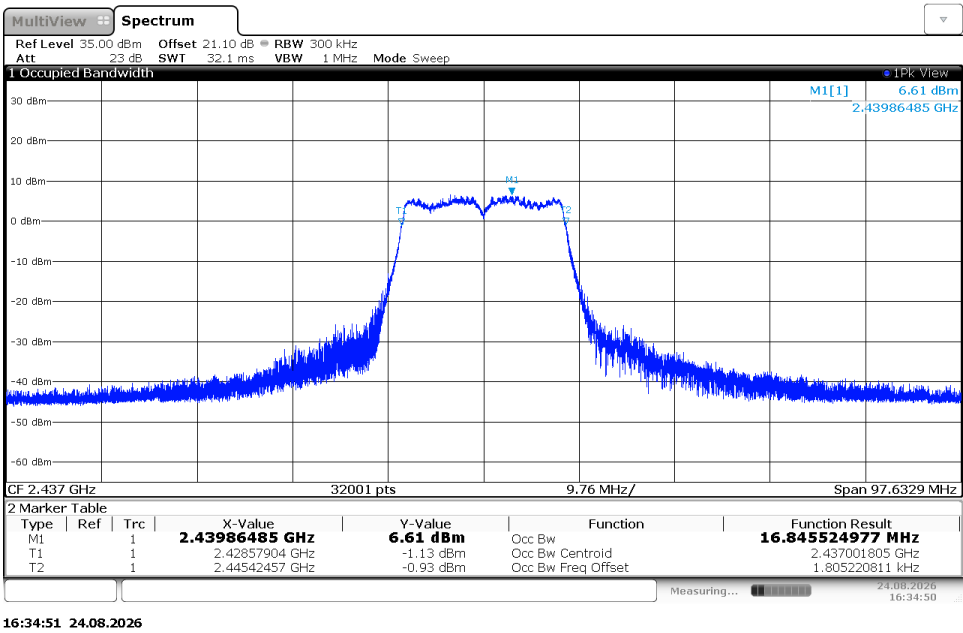


Figure 2.3.6-8 - 99% Occupied Bandwidth - Antenna 1 - 2437 MHz – 802.11g

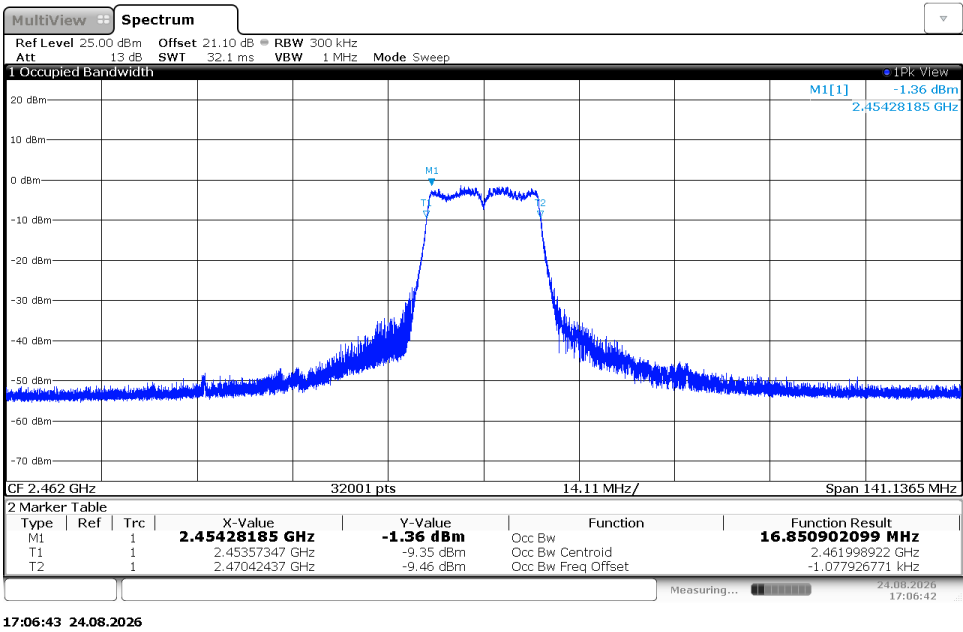


Figure 2.3.6-9 - 99% Occupied Bandwidth - Antenna 1 - 2462 MHz – 802.11g

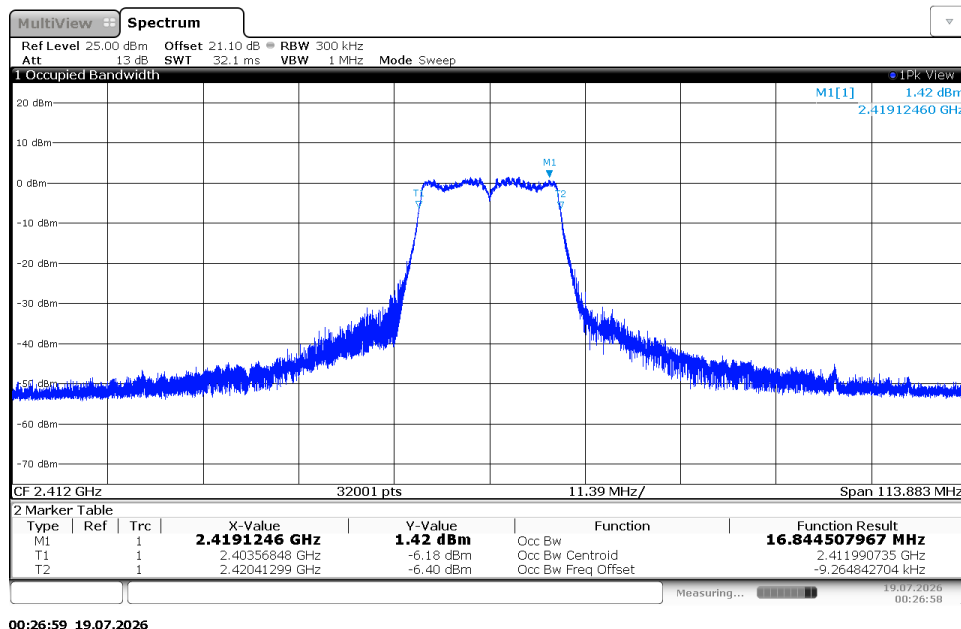


Figure 2.3.6-10 - 99% Occupied Bandwidth - Antenna 2 - 2412 MHz – 802.11g

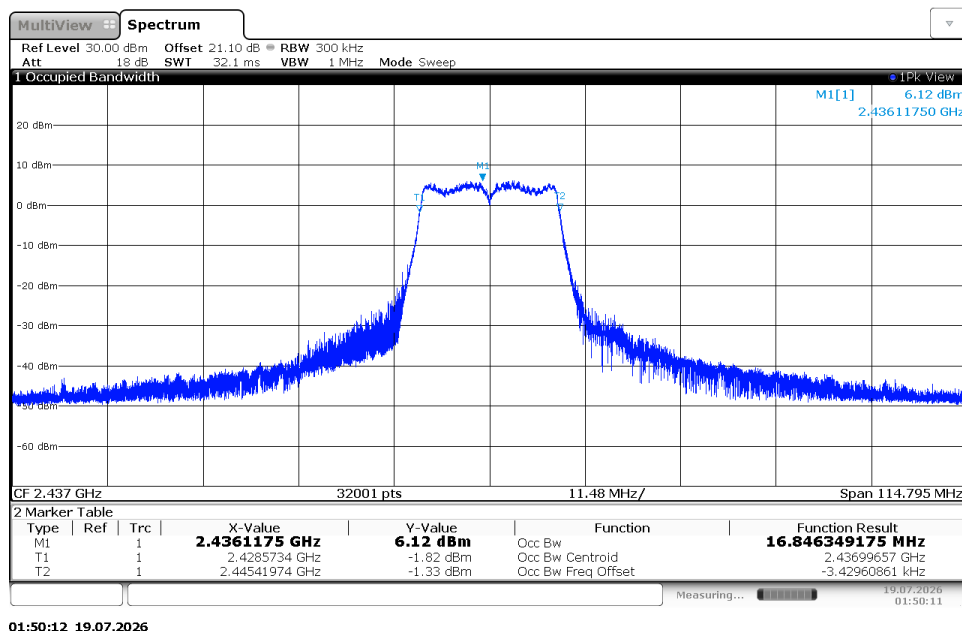
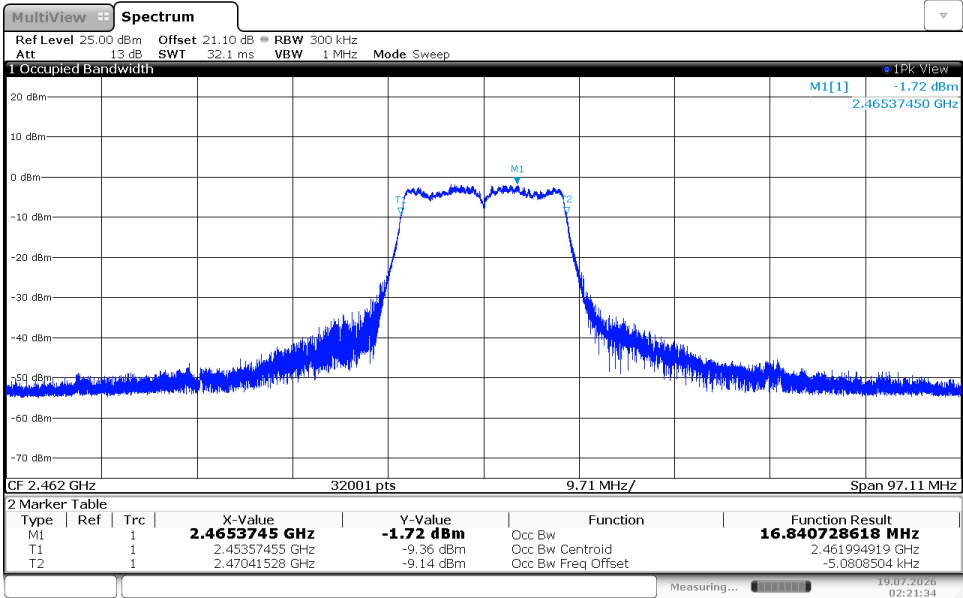


Figure 2.3.6-11 - 99% Occupied Bandwidth - Antenna 2 - 2437 MHz – 802.11g



02:21:35 19.07.2026

Figure 2.3.6-12 - 99% Occupied Bandwidth - Antenna 2 - 2462 MHz – 802.11g



Table 2.3.6-3 - 99% Occupied Bandwidth Results - 802.11n 20 MHz

Configuration	Frequency (MHz)	99% Bandwidth (MHz)
Antenna 1	2412	18.0393
Antenna 1	2437	18.0413
Antenna 1	2462	17.7435
Antenna 2	2412	18.0534
Antenna 2	2437	18.0467
Antenna 2	2462	17.7464

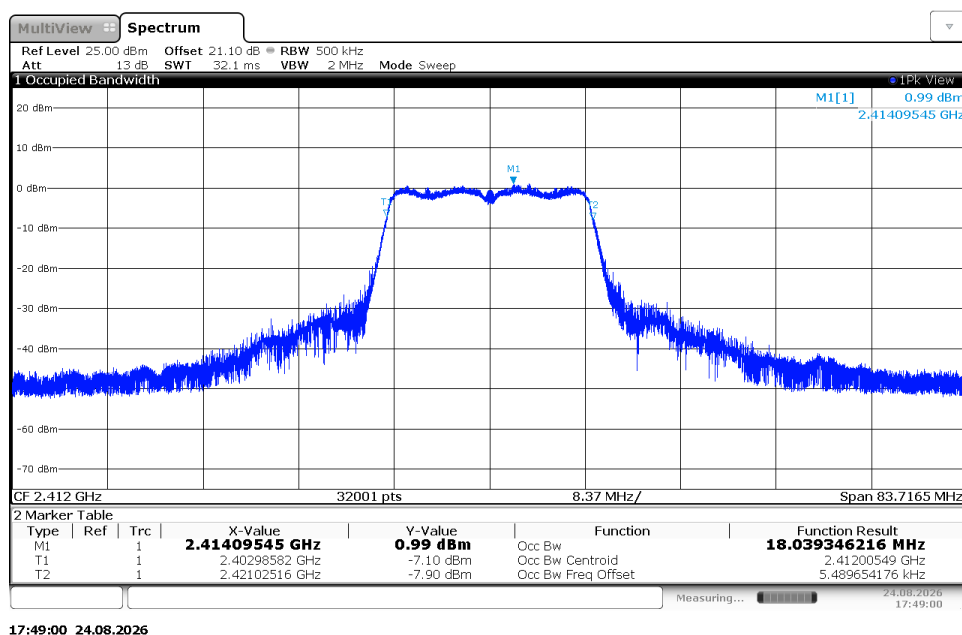


Figure 2.3.6-13 - 99% Occupied Bandwidth - Antenna 1 - 2412 MHz - 802.11n 20 MHz

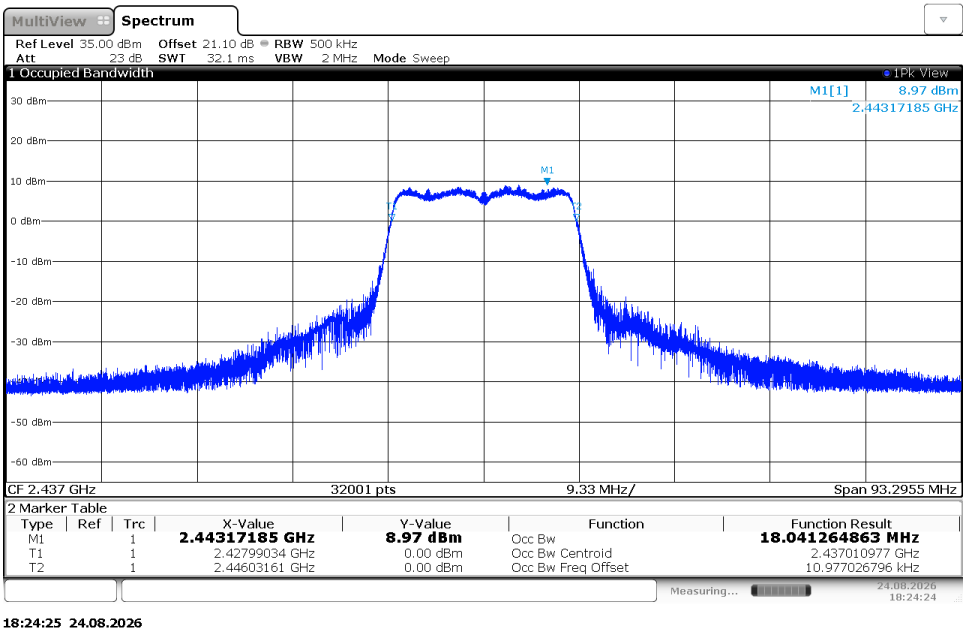


Figure 2.3.6-14 - 99% Occupied Bandwidth - Antenna 1 - 2437 MHz - 802.11n 20 MHz

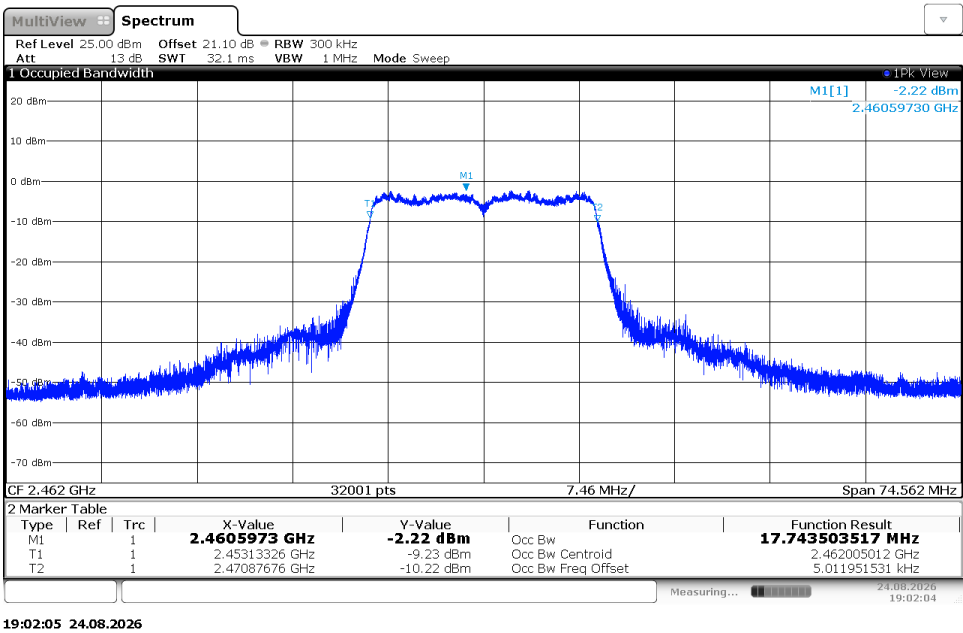


Figure 2.3.6-15 - 99% Occupied Bandwidth - Antenna 1 - 2462 MHz - 802.11n 20 MHz

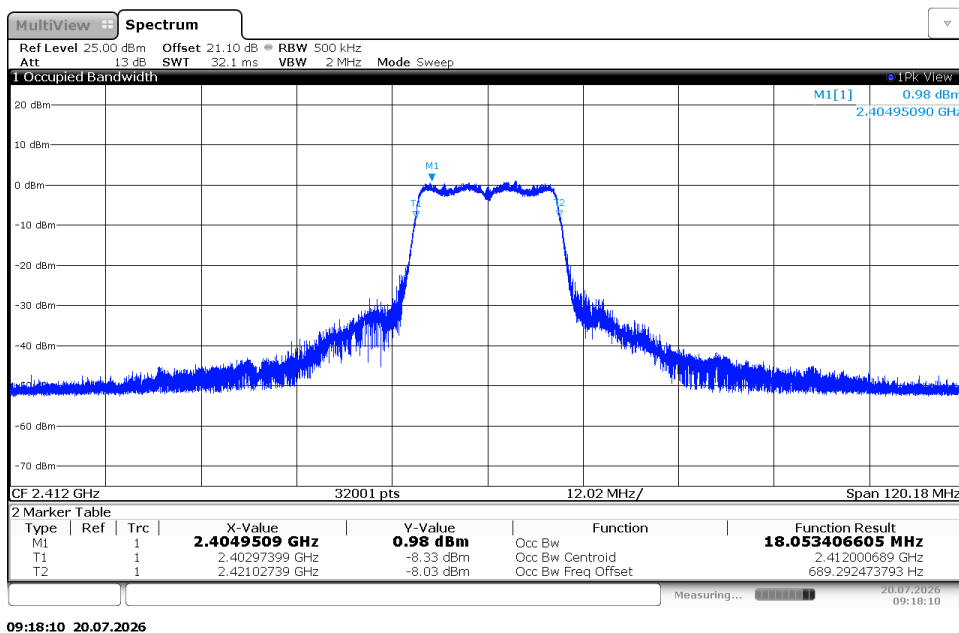


Figure 2.3.6-16 - 99% Occupied Bandwidth - Antenna 2 - 2412 MHz - 802.11n 20 MHz

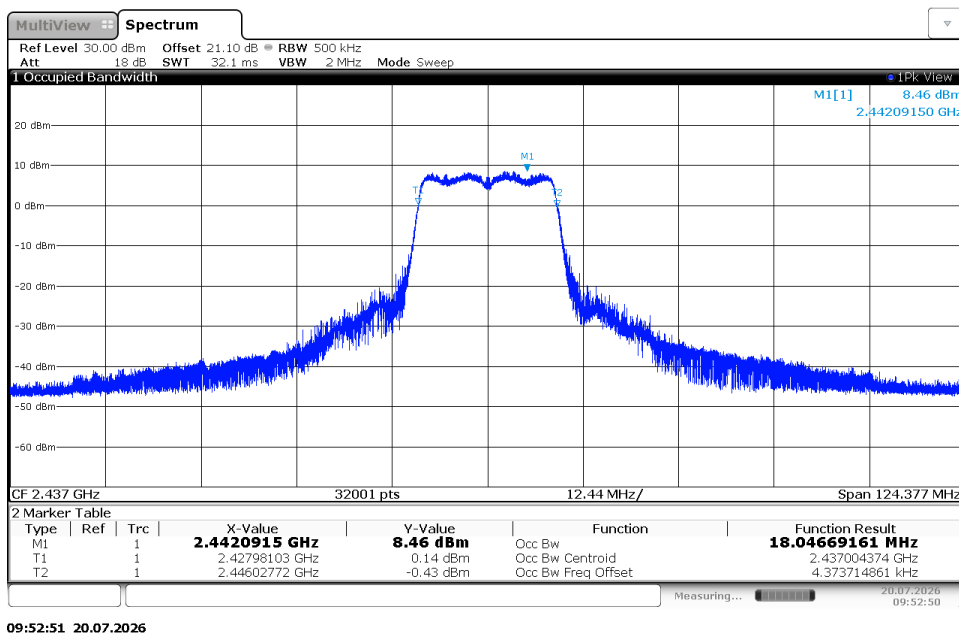


Figure 2.3.6-17 - 99% Occupied Bandwidth - Antenna 2 - 2437 MHz - 802.11n 20 MHz

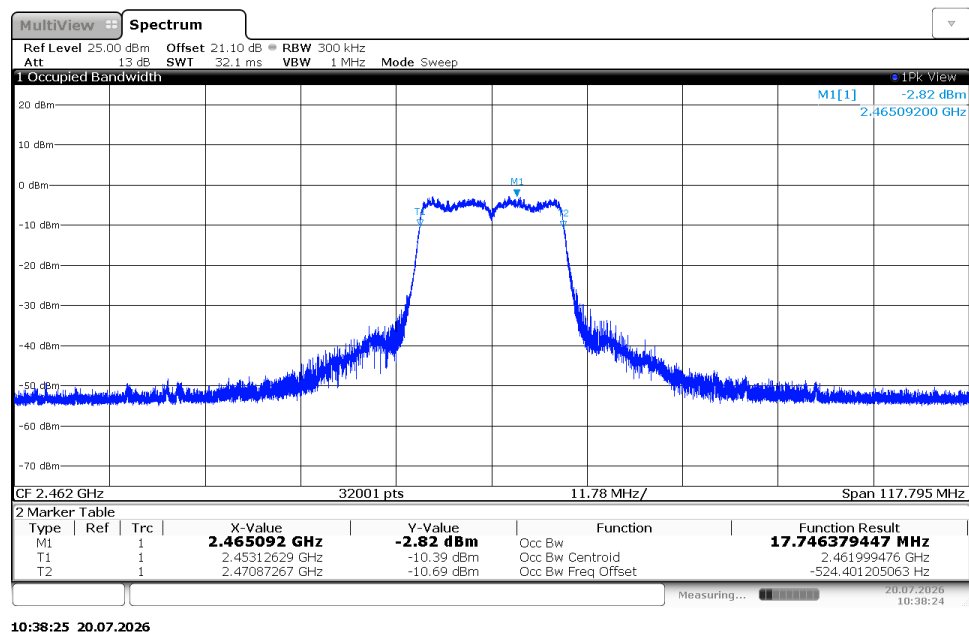


Figure 2.3.6-18 - 99% Occupied Bandwidth - Antenna 2 - 2462 MHz - 802.11n 20 MHz



Table 2.3.6-4 - 99% Occupied Bandwidth Results - 802.11n 40 MHz

Configuration	Frequency (MHz)	99% Bandwidth (MHz)
Antenna 1	2422	36.3175
Antenna 1	2437	36.3318
Antenna 1	2452	36.3149
Antenna 2	2422	36.3197
Antenna 2	2437	36.3144
Antenna 2	2452	36.3224

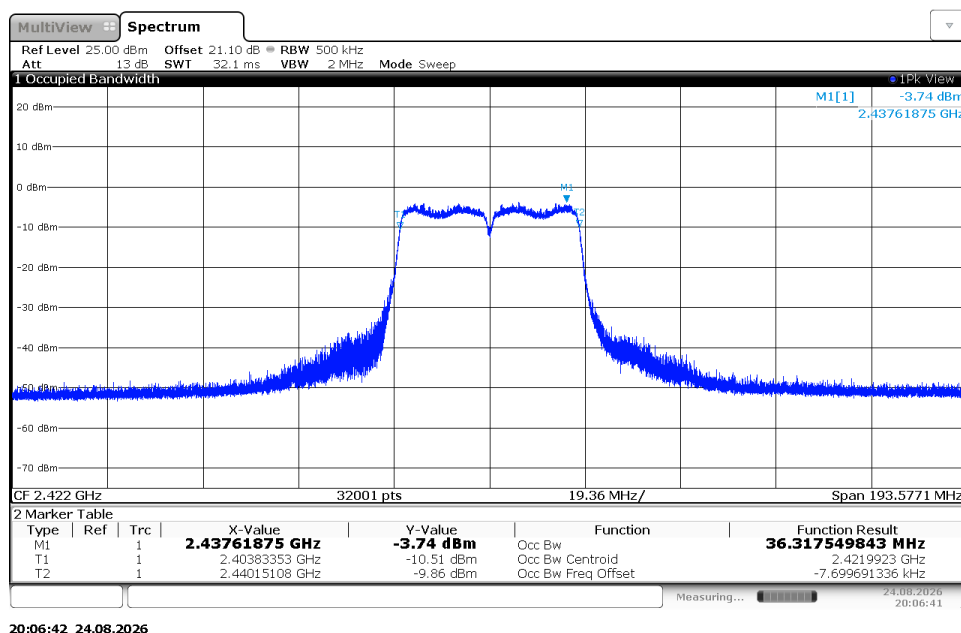


Figure 2.3.6-19 - 99% Occupied Bandwidth - Antenna 1 - 2422 MHz - 802.11n 40 MHz

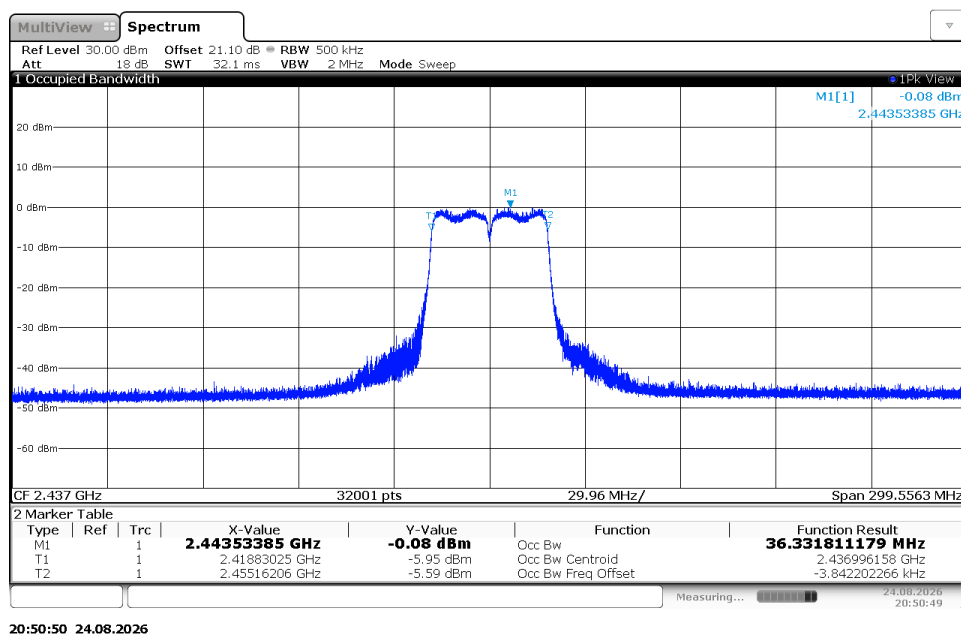


Figure 2.3.6-20 - 99% Occupied Bandwidth - Antenna 1 - 2437 MHz - 802.11n 40 MHz

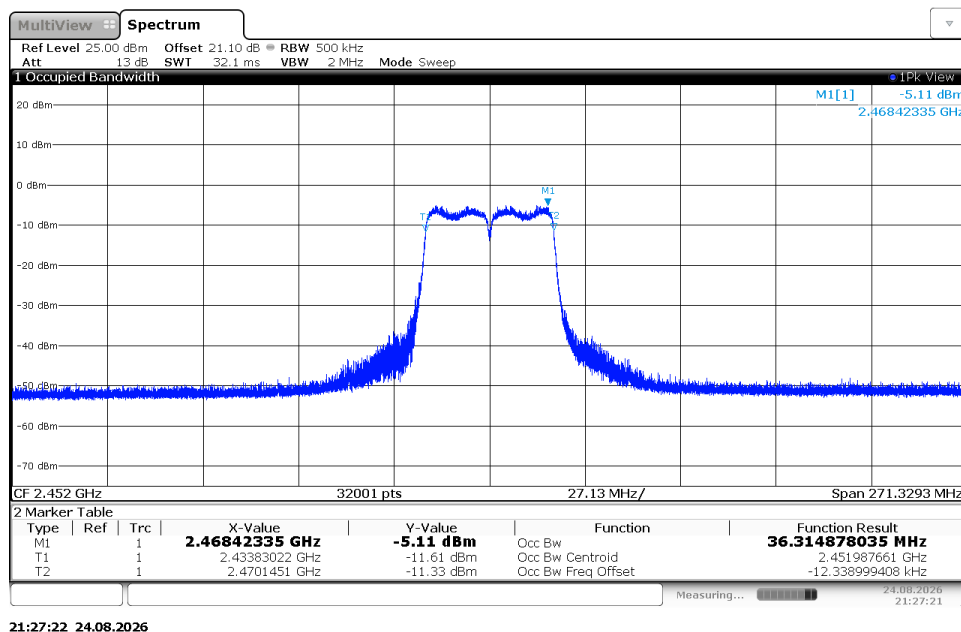


Figure 2.3.6-21 - 99% Occupied Bandwidth - Antenna 1 - 2452 MHz - 802.11n 40 MHz

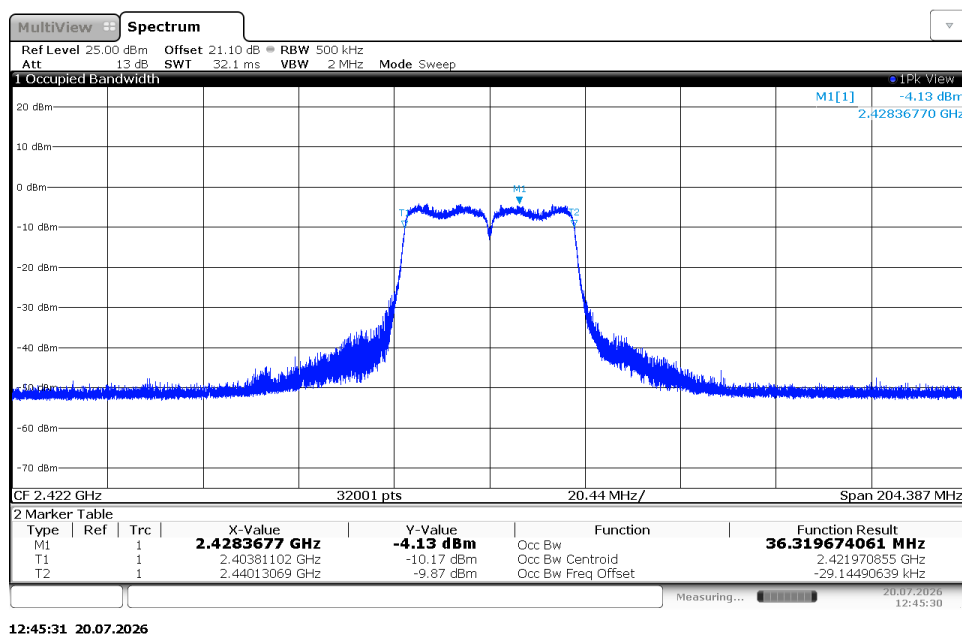


Figure 2.3.6-22 - 99% Occupied Bandwidth - Antenna 2 - 2422 MHz - 802.11n 40 MHz

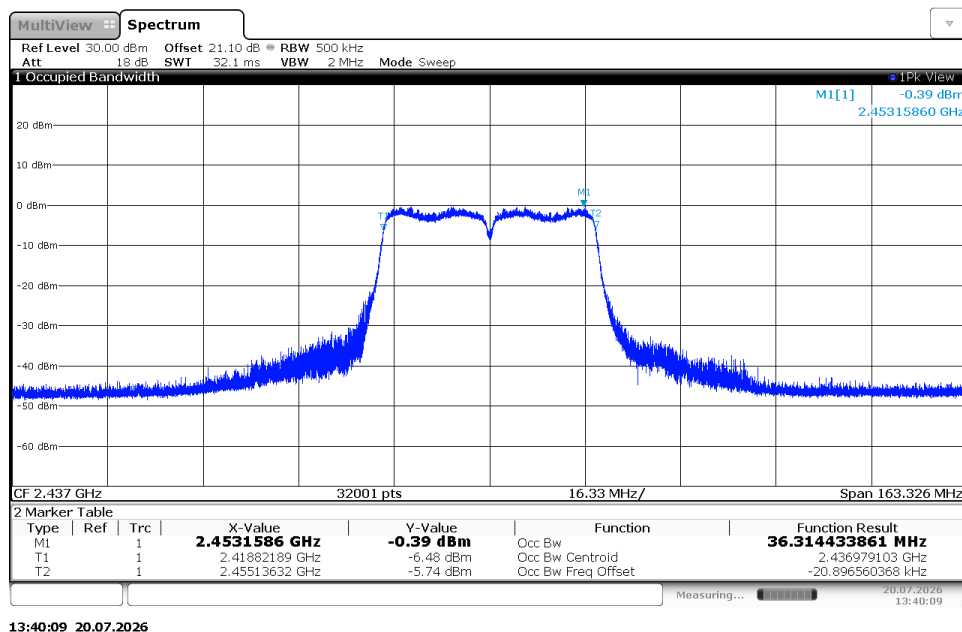


Figure 2.3.6-23 - 99% Occupied Bandwidth - Antenna 2 - 2437 MHz - 802.11n 40 MHz

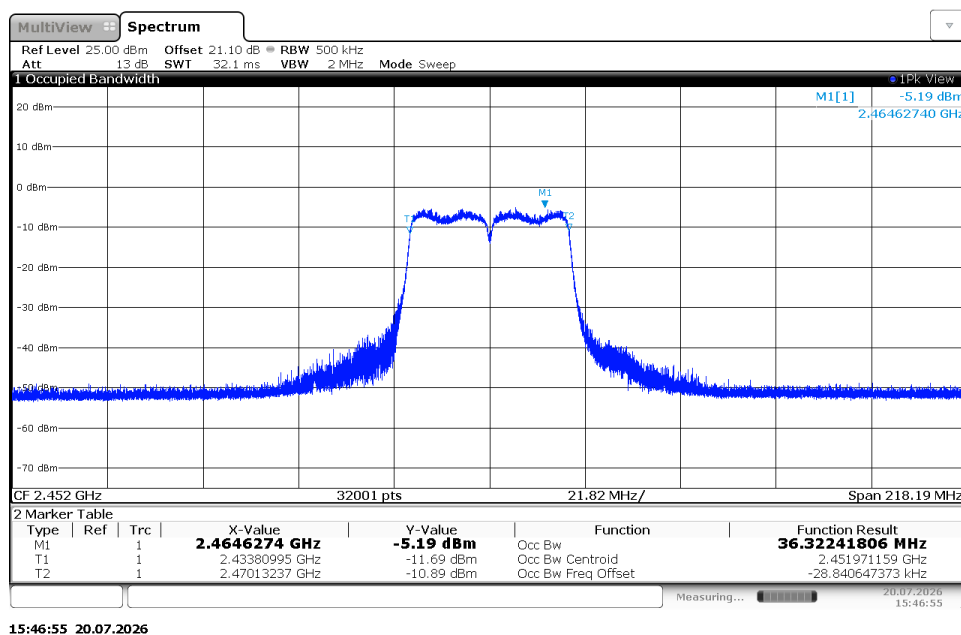


Figure 2.3.6-24 - 99% Occupied Bandwidth - Antenna 2 - 2452 MHz - 802.11n 40 MHz

2.3.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

Device #	Manufacturer	Description	Model	Serial #	Cal Code	Cal Date	Cal Due
DEMC3049	Aeroflex Inmet	Atten 20dB 2.9mm-M/F, DC-26.5GH, 2W	26AH-20	1443	B	05/27/2025 06/12/2026	05/27/2026 06/12/2027
DEMC3085	Rohde & Schwarz	Signal & Spectrum Analyzer	FSW43	103997	G	08/29/2025	08/29/2026
BEMC02112	Teledyne Storm Products	Duratest 175 Cable 26.5GHz	921-0101-036	12-06-698	B	01/12/2026	01/12/2027

Cal Code G = Calibration performed by an accredited outside source.

Cal Code B = Calibration verification performed internally.

Cal Code Y = Passive Device, or Calibration not required when used with other calibrated equipment.

The test equipment was used only during the active cycle of the calibration period.



2.4 Peak Output Power

2.4.1 Specification Reference

FCC Section 15.247(b)(3)

2.4.2 Equipment Under Test and Modification State

S/N: ADT-GW-FCC-#02

2.4.3 Date of Test

7/16/2026 to 8/24/2026

2.4.4 Test Method

The fundamental emission output power was measured in accordance with ANSI C63.10 Subclause 11.9.1.1 RBW $\geq$ DTS bandwidth. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer through suitable attenuation. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.4.5 Environmental Conditions

Ambient Temperature	22.2 to 23.4°C
Relative Humidity	35 to 41 %
Atmospheric Pressure	981 to 985 mbar

2.4.6 Test Results

AC Powered, Operating

Limit Clause FCC Part 15.247(b)(3)

The Maximum Output Power allowed for systems using digital modulation is 1 Watt (30 dBm)

Test Summary:

The maximum output power was measured to be 27.946 dBm.

Test Result: Pass



Table 2.4.6-1 - Peak Conducted Output Power Results - 802.11b

Configuration	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Margin (dB)	Result
Antenna 1	2412	15.179	30.00	14.821	Pass
Antenna 1	2437	16.410	30.00	13.590	Pass
Antenna 1	2462	15.336	30.00	14.664	Pass
Antenna 2	2412	16.299	30.00	13.701	Pass
Antenna 2	2437	16.080	30.00	13.92	Pass
Antenna 2	2462	16.022	30.00	13.978	Pass

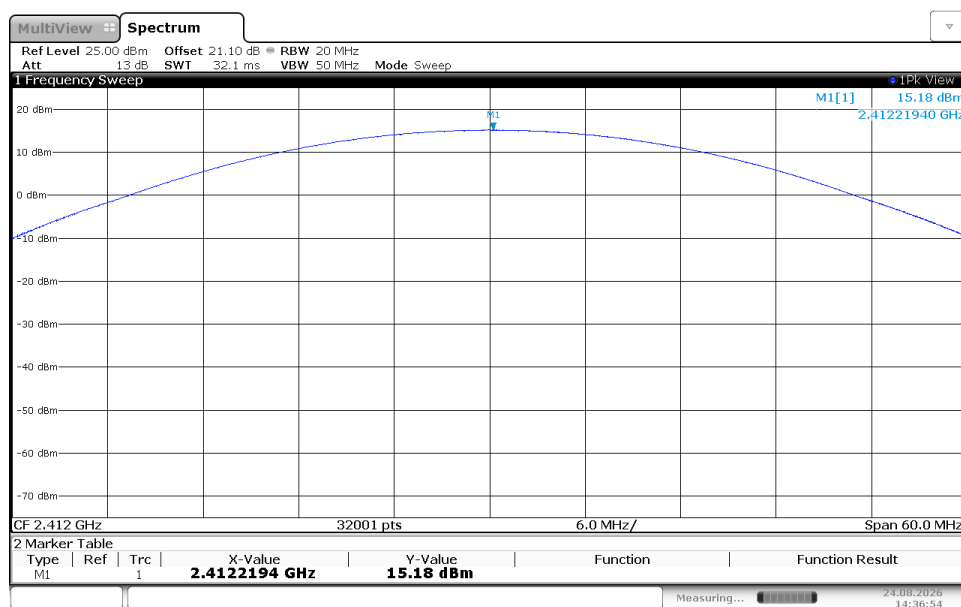


Figure 2.4.6-1 - Peak Conducted Output Power - Antenna 1 - 2412 MHz - 802.11b

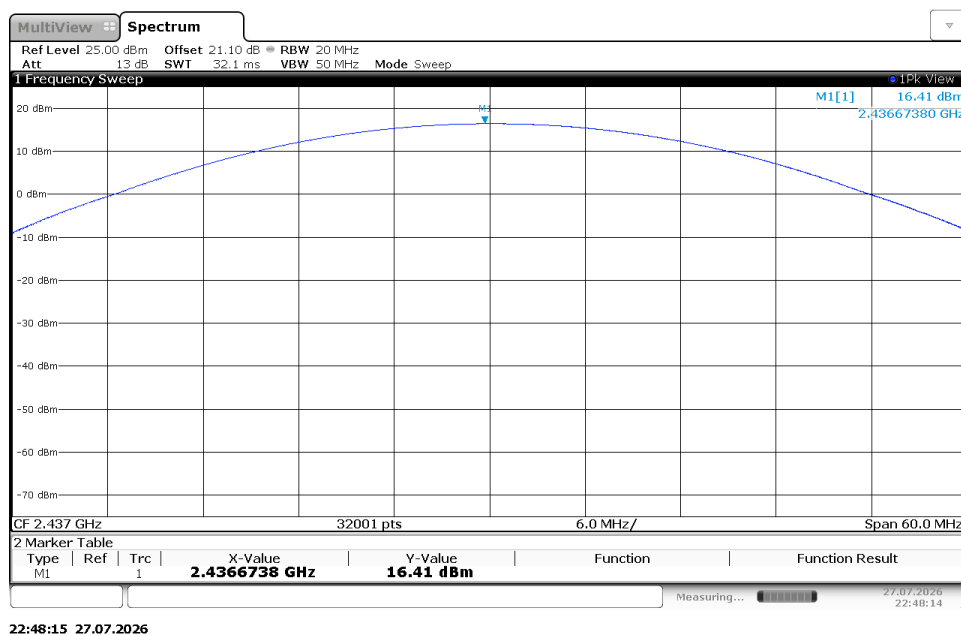


Figure 2.4.6-2 - Peak Conducted Output Power - Antenna 1 - 2437 MHz - 802.11b

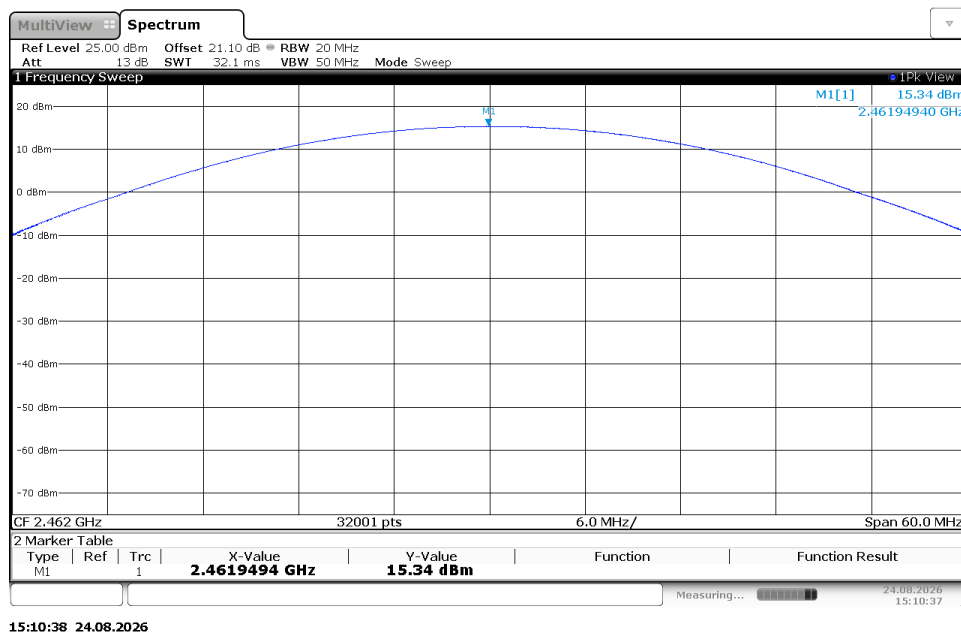


Figure 2.4.6-3 - Peak Conducted Output Power - Antenna 1 - 2462 MHz - 802.11b

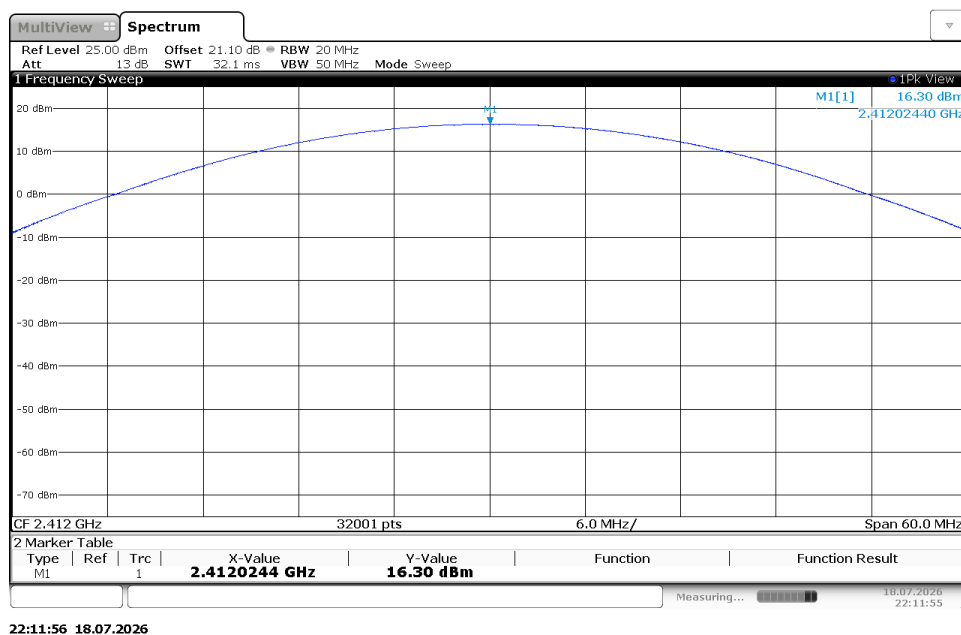


Figure 2.4.6-4 - Peak Conducted Output Power - Antenna 2 - 2412 MHz - 802.11b

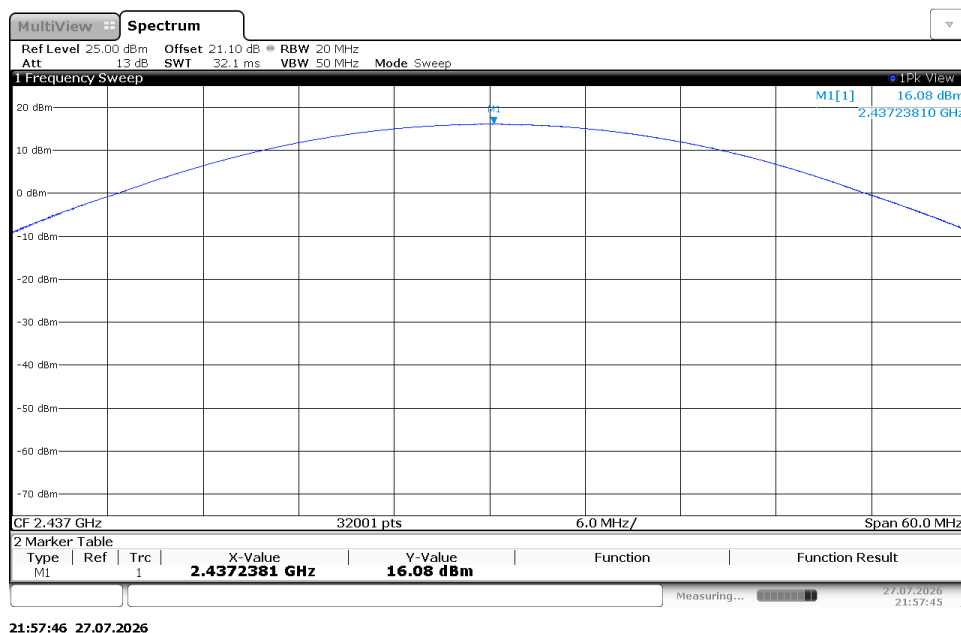


Figure 2.4.6-5 - Peak Conducted Output Power - Antenna 2 - 2437 MHz - 802.11b

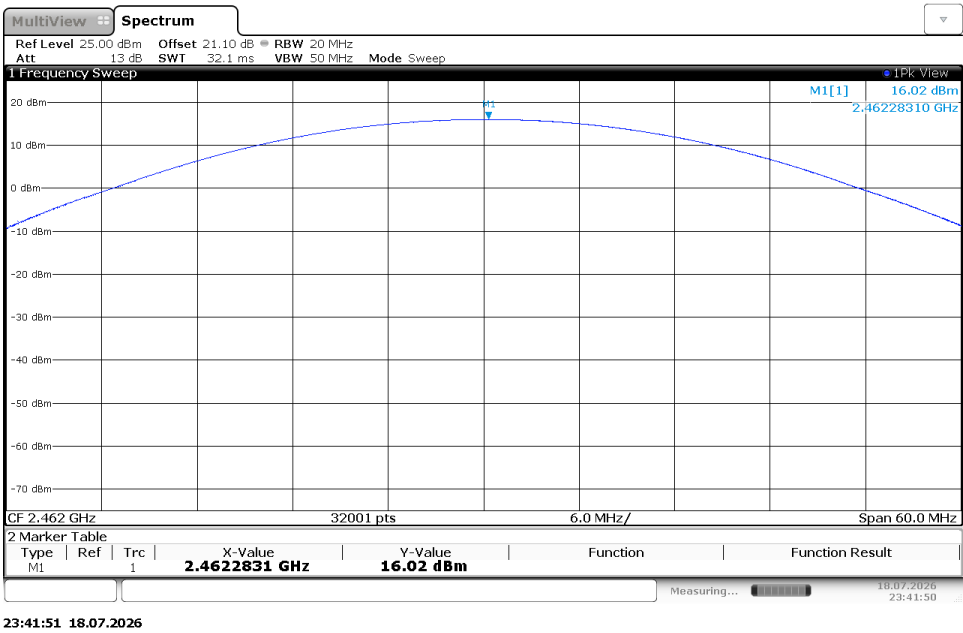


Figure 2.4.6-6 - Peak Conducted Output Power - Antenna 2 - 2462 MHz - 802.11b



Table 2.4.6-2 - Peak Conducted Output Power Results - 802.11g

Configuration	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Margin (dB)	Result
Antenna 1	2412	18.855	30.00	11.145	Pass
Antenna 1	2437	24.969	30.00	5.031	Pass
Antenna 1	2462	17.058	30.00	12.942	Pass
Antenna 2	2412	19.800	30.00	10.200	Pass
Antenna 2	2437	24.620	30.00	5.380	Pass
Antenna 2	2462	16.722	30.00	13.278	Pass

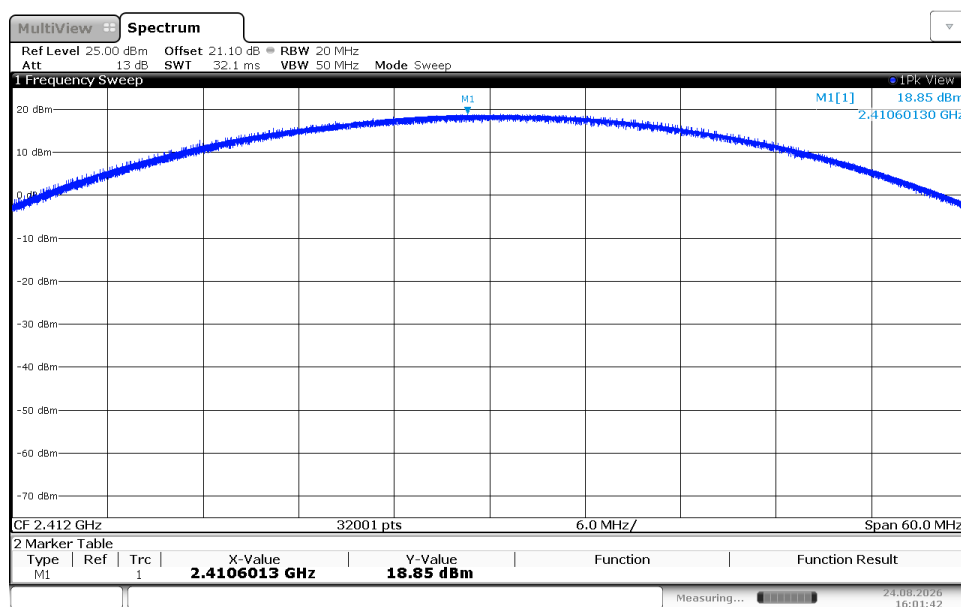


Figure 2.4.6-7 - Peak Conducted Output Power - Antenna 1 - 2412 MHz - 802.11g

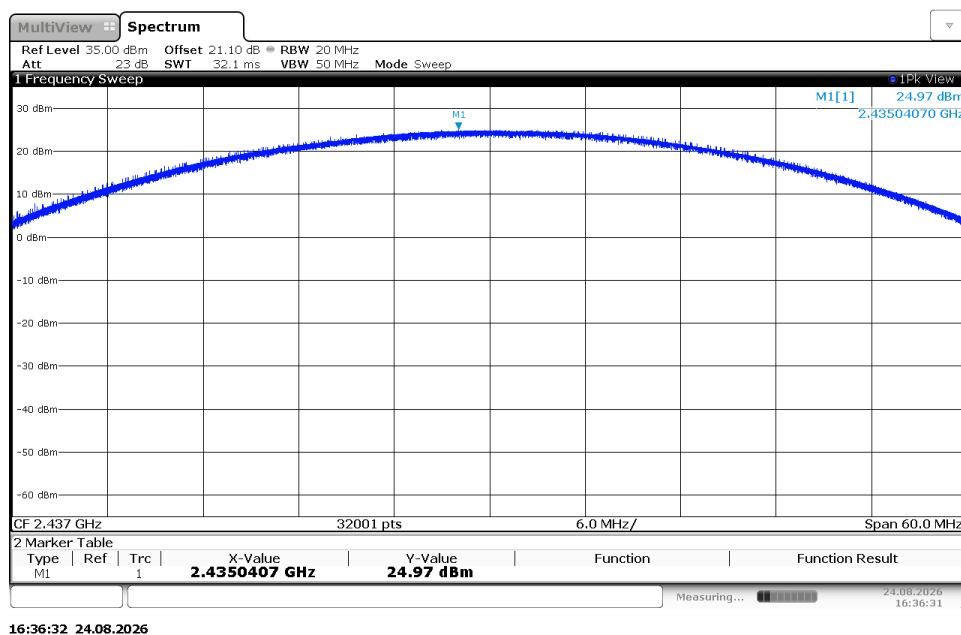


Figure 2.4.6-8 - Peak Conducted Output Power - Antenna 1 - 2437 MHz - 802.11g

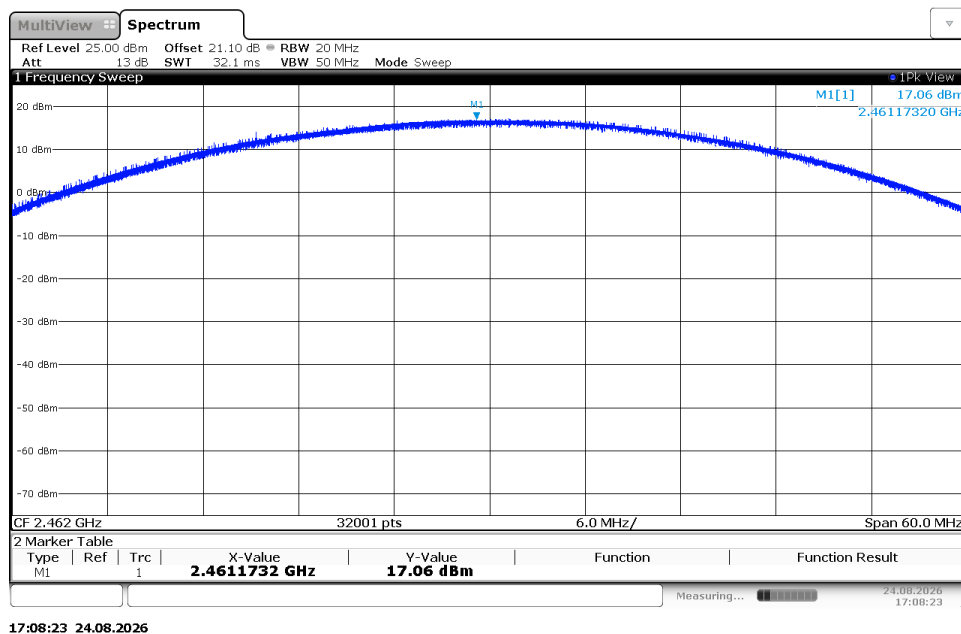


Figure 2.4.6-9 - Peak Conducted Output Power - Antenna 1 - 2462 MHz - 802.11g

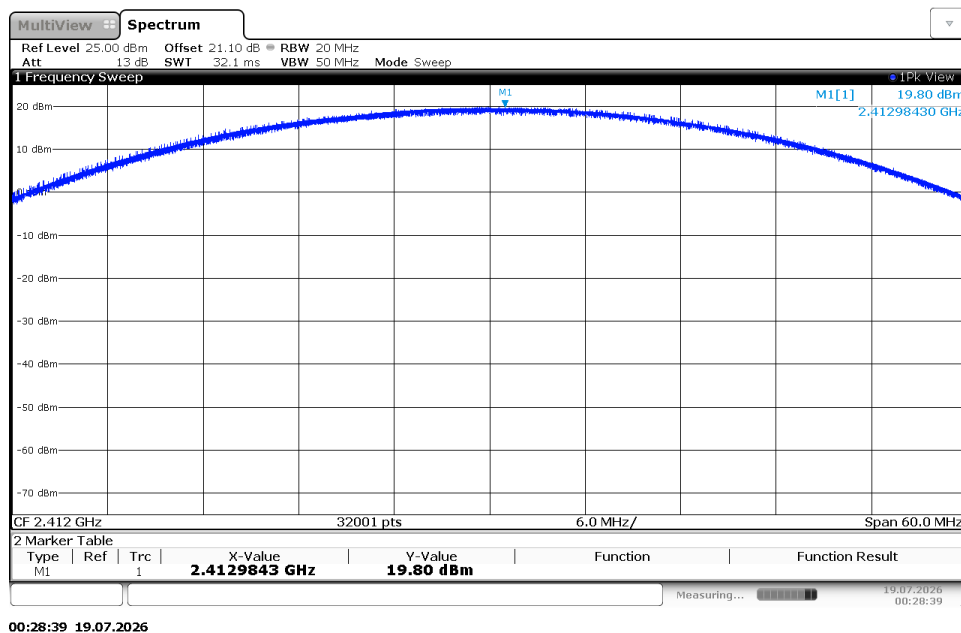


Figure 2.4.6-10 - Peak Conducted Output Power - Antenna 2 - 2412 MHz

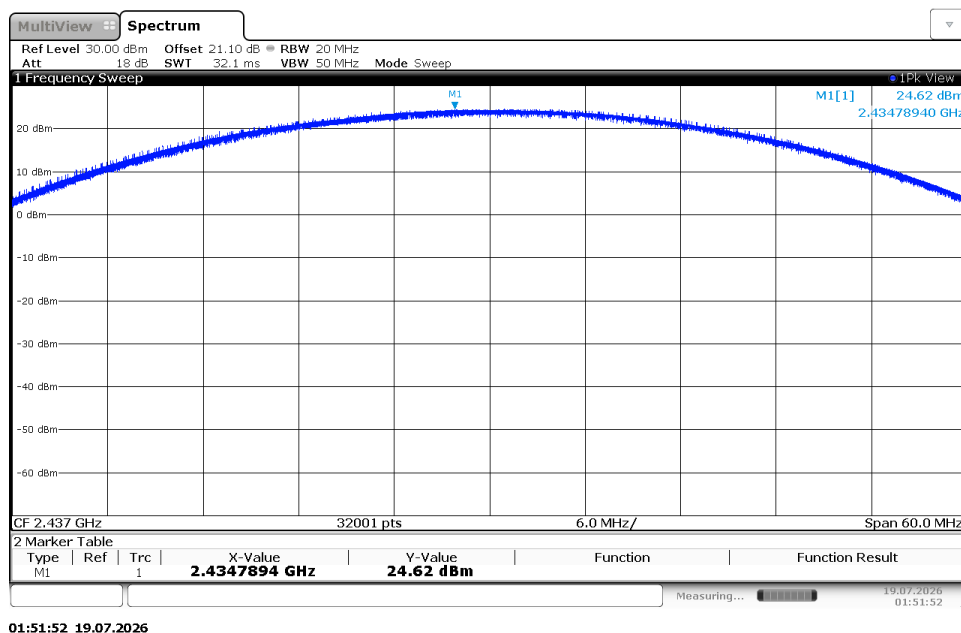


Figure 2.4.6-11 - Peak Conducted Output Power - Antenna 2 - 2437 MHz - 802.11g

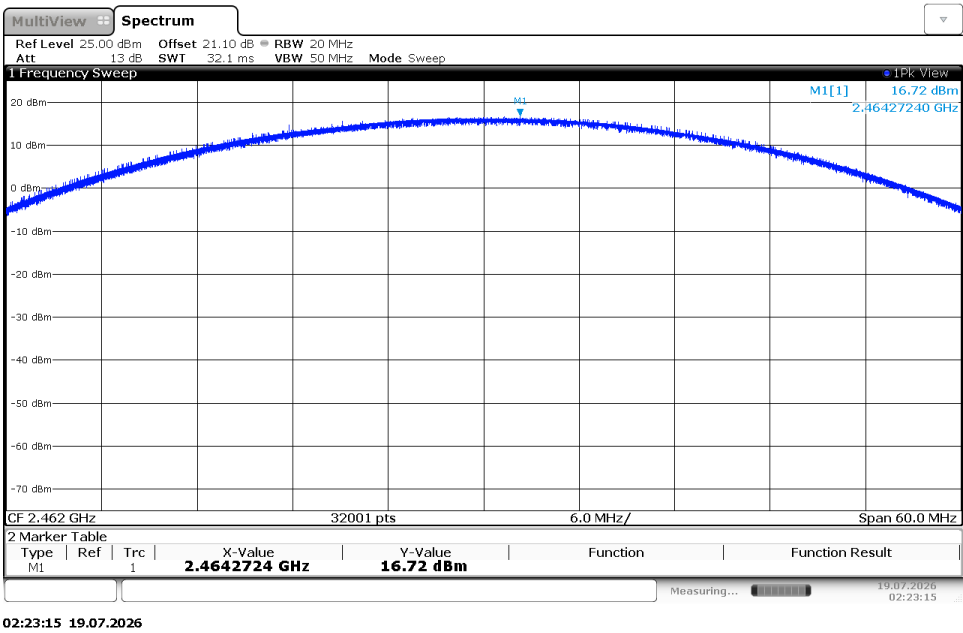


Figure 2.4.6-12 - Peak Conducted Output Power - Antenna 2 - 2462 MHz



Table 2.4.6-3 - Peak Conducted Output Power Results – 802.11n 20 MHz

Configuration	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Margin (dB)	Result
Antenna 1	2412	17.116	30.00	12.884	Pass
Antenna 1	2437	25.295	30.00	4.705	Pass
Antenna 1	2462	15.960	30.00	14.040	Pass
Antenna 2	2412	16.825	30.00	13.175	Pass
Antenna 2	2437	24.604	30.00	5.396	Pass
Antenna 2	2462	15.818	30.00	14.182	Pass

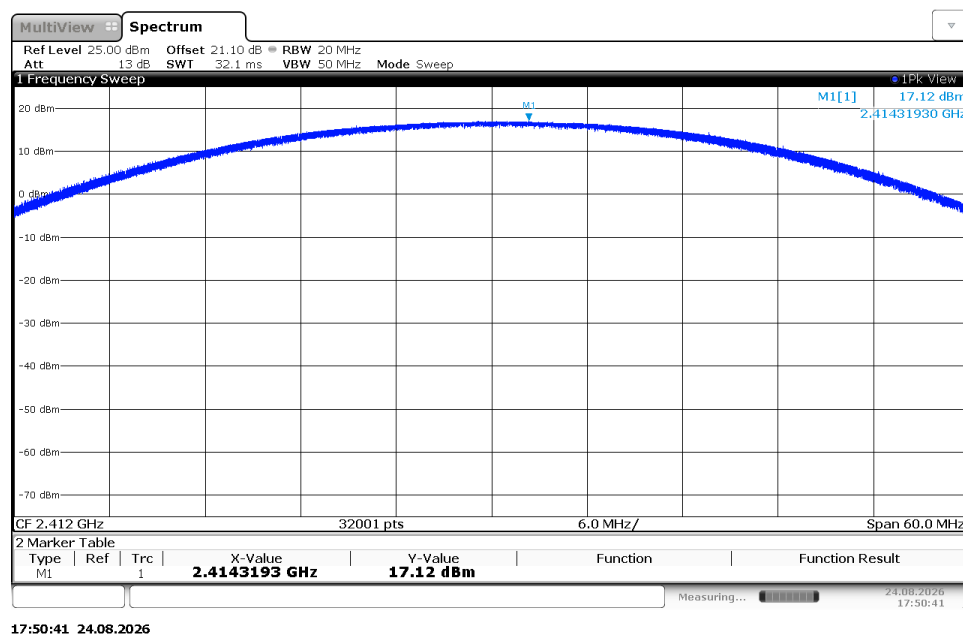


Figure 2.4.6-13 - Peak Conducted Output Power - Antenna 1 - 2412 MHz – 802.11n 20 MHz

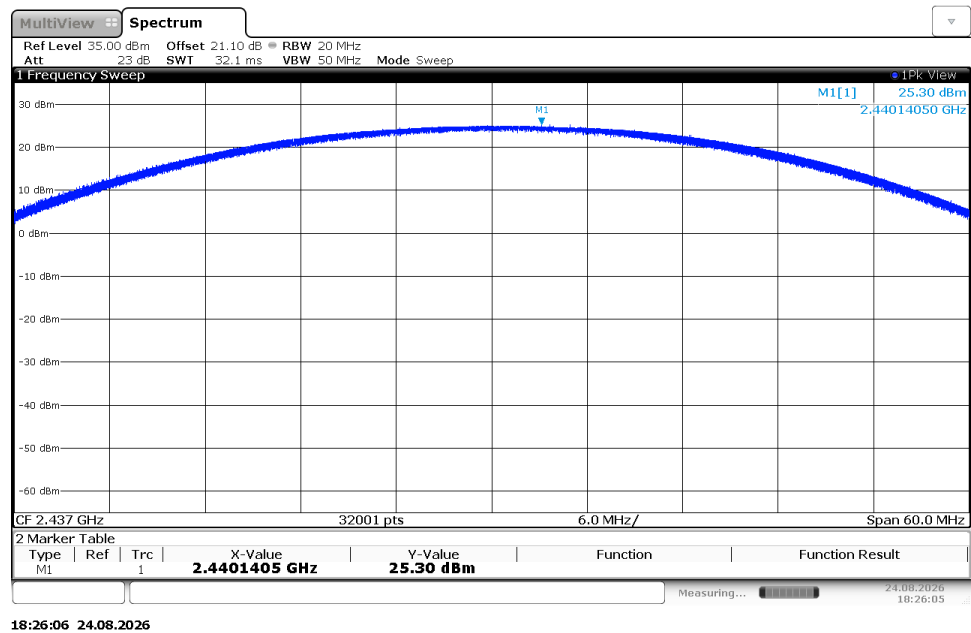


Figure 2.4.6-14 - Peak Conducted Output Power - Antenna 1 - 2437 MHz – 802.11n 20 MHz

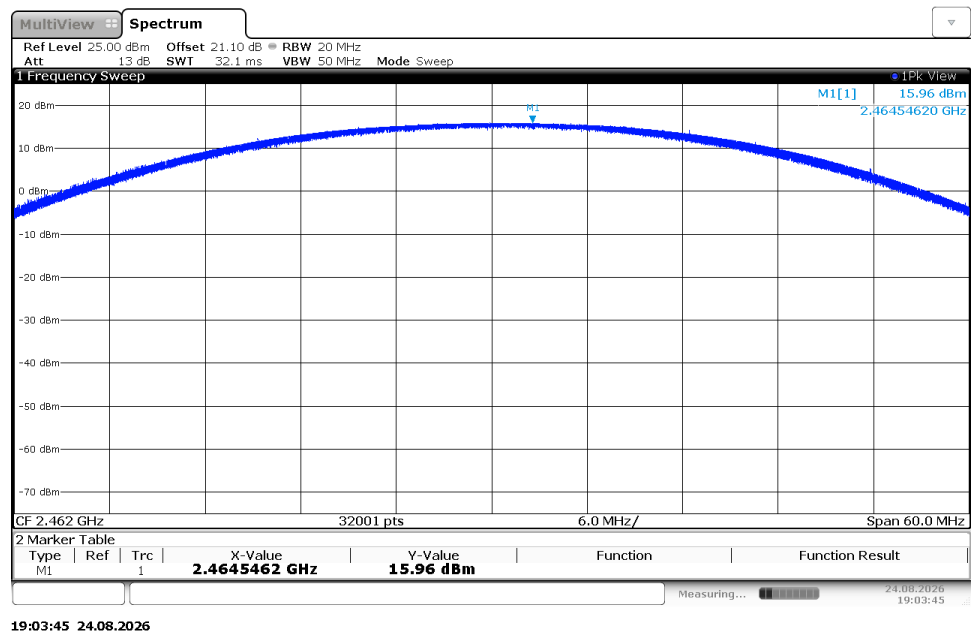


Figure 2.4.6-15 - Peak Conducted Output Power - Antenna 1 - 2462 MHz – 802.11n 20 MHz

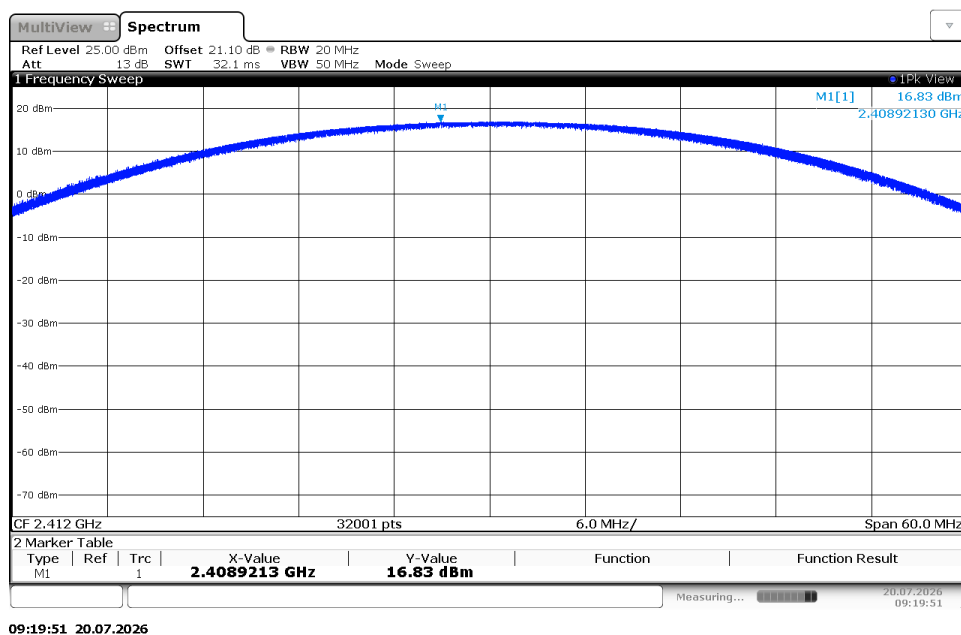


Figure 2.4.6-16 - Peak Conducted Output Power - Antenna 2 - 2412 MHz – 802.11n 20 MHz

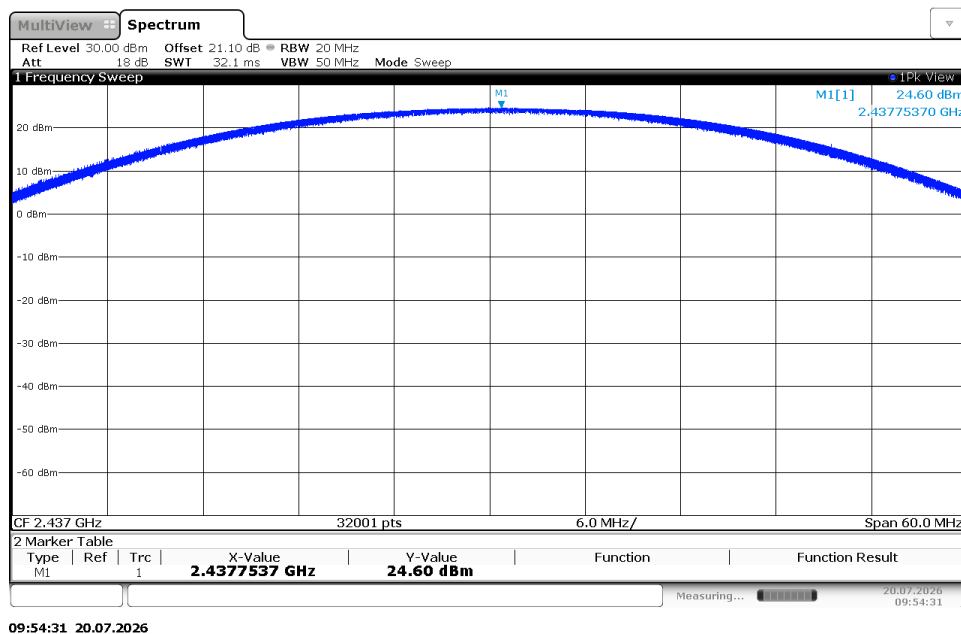


Figure 2.4.6-17 - Peak Conducted Output Power - Antenna 2 - 2437 MHz – 802.11n 20 MHz

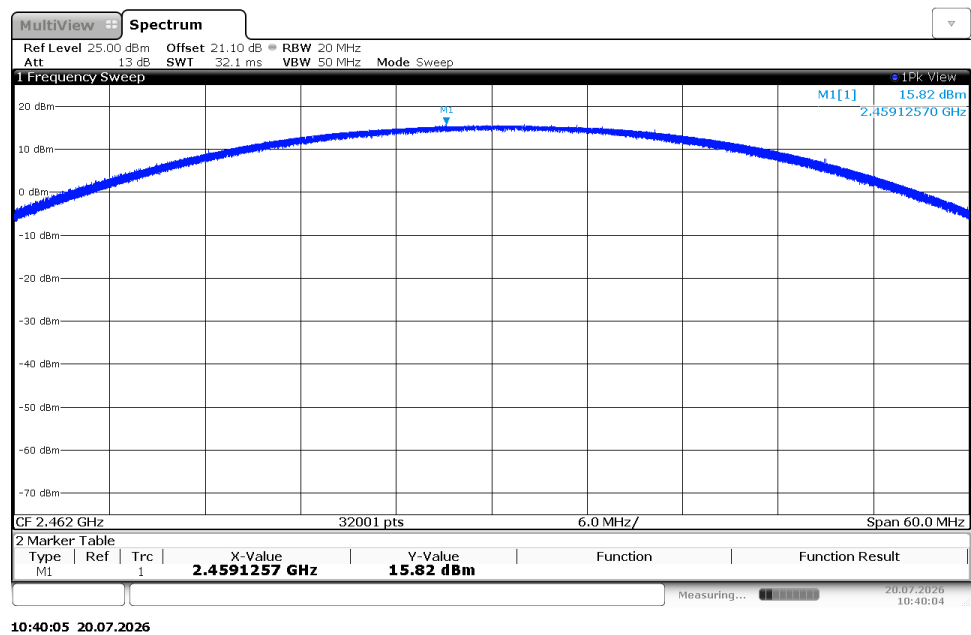


Figure 2.4.6-18 - Peak Conducted Output Power - Antenna 2 - 2462 MHz – 802.11n 20 MHz



Table 2.4.6-4 - Peak Conducted Output Power Results - 802.11n 40 MHz

Configuration	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Margin (dB)	Result
Antenna 1	2422	16.672	30.00	13.328	Pass
Antenna 1	2437	20.652	30.00	9.348	Pass
Antenna 1	2452	15.691	30.00	14.309	Pass
Antenna 2	2422	16.529	30.00	13.471	Pass
Antenna 2	2437	20.344	30.00	9.656	Pass
Antenna 2	2452	15.303	30.00	14.697	Pass

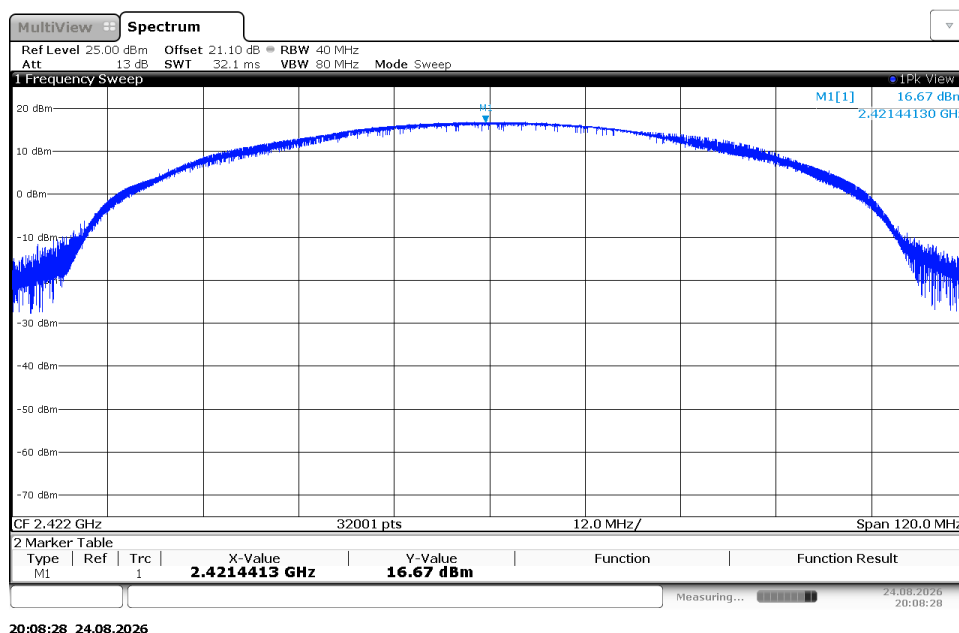


Figure 2.4.6-19 - Peak Conducted Output Power - Antenna 1 - 2422 MHz - 802.11n 40 MHz

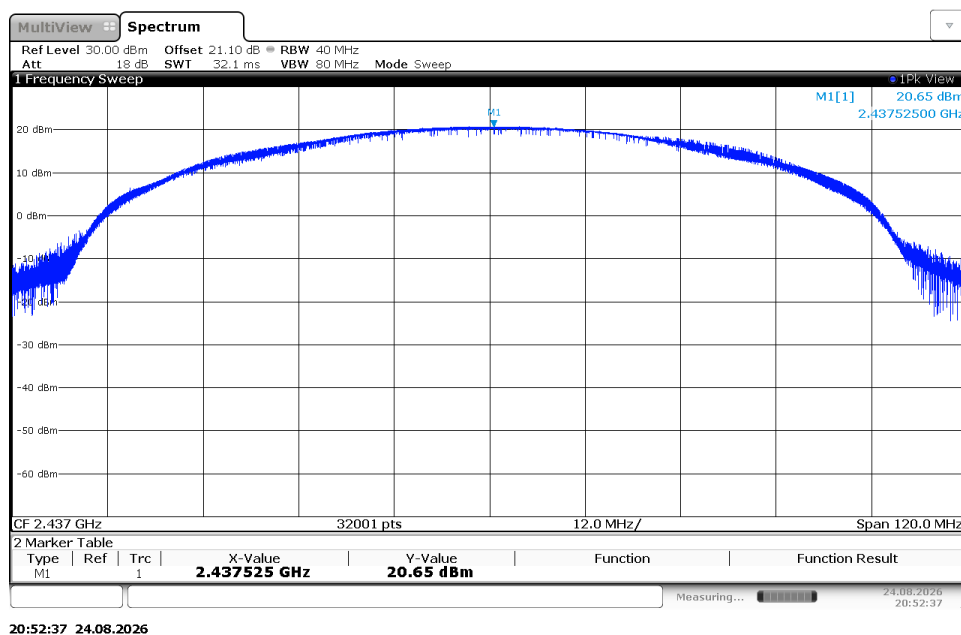


Figure 2.4.6-20 - Peak Conducted Output Power - Antenna 1 - 2437 MHz - 802.11n 40 MHz

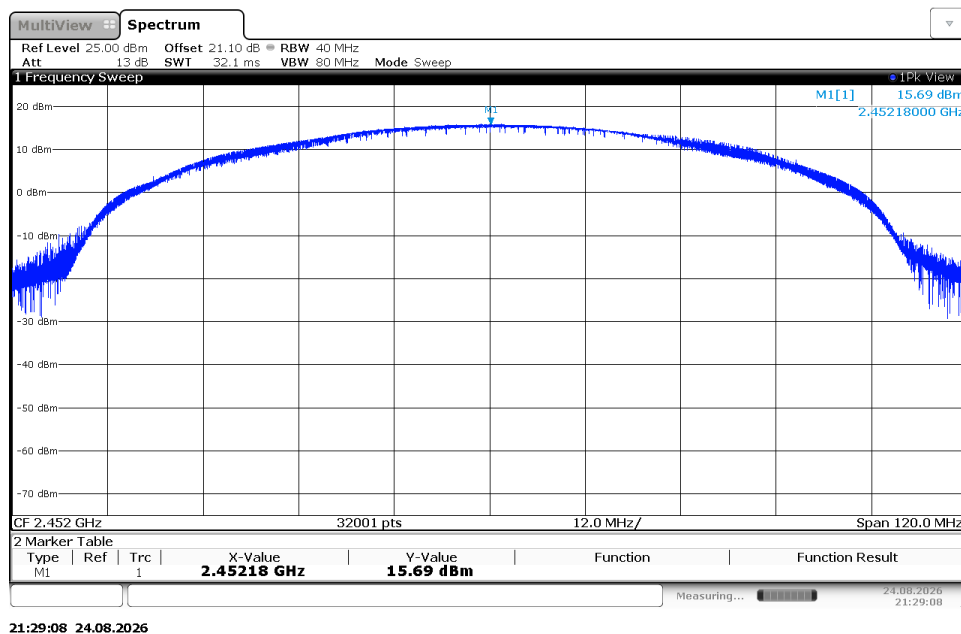


Figure 2.4.6-21 - Peak Conducted Output Power - Antenna 1 - 2452 MHz - 802.11n 40 MHz

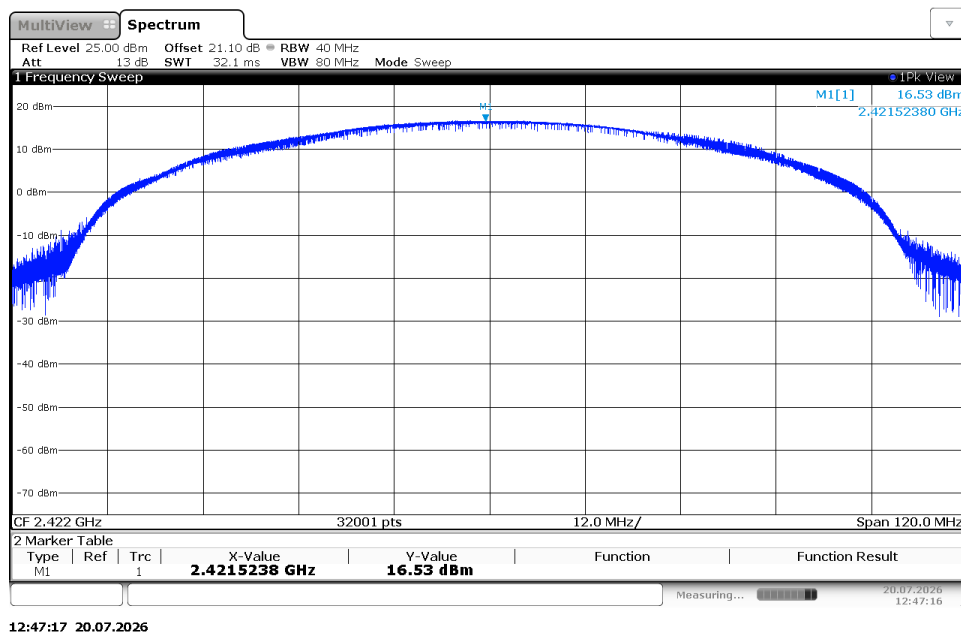


Figure 2.4.6-22 - Peak Conducted Output Power - Antenna 2 - 2422 MHz - 802.11n 40 MHz

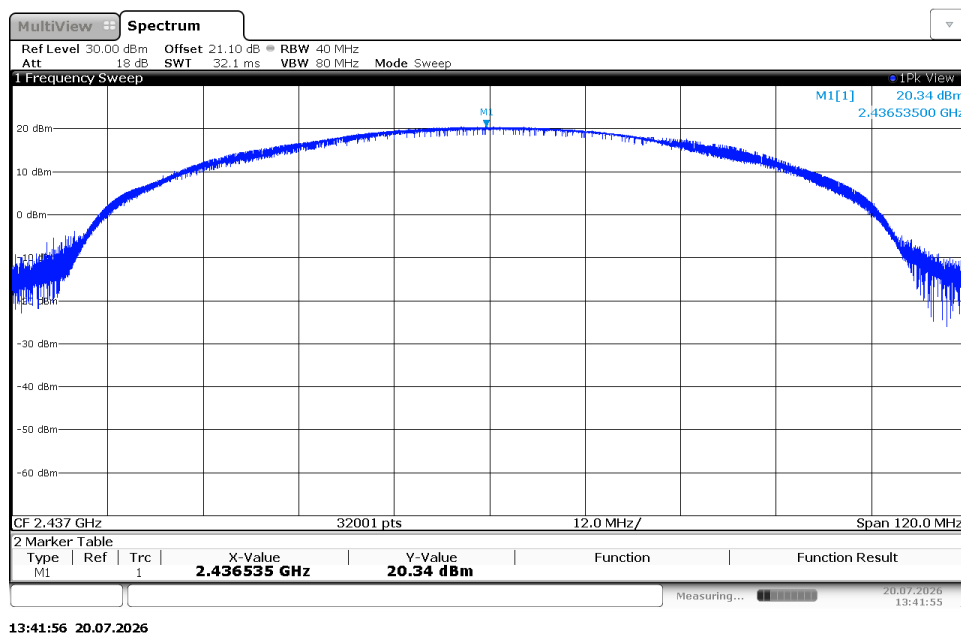


Figure 2.4.6-23 - Peak Conducted Output Power - Antenna 2 - 2437 MHz - 802.11n 40 MHz

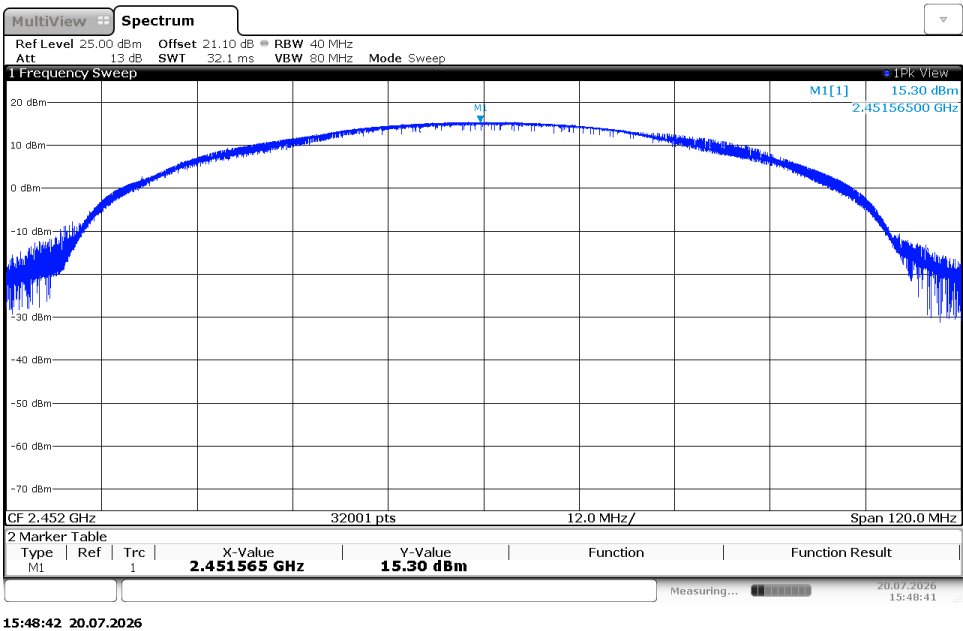


Figure 2.4.6-24 - Peak Conducted Output Power - Antenna 2 - 2452 MHz - 802.11n 40 MHz



Table 2.4.6-5 - Peak Conducted Output Power Results - 802.11n 20 MHz - MIMO

Frequency (MHz)	Antenna 1	Antenna 2	Combined Peak Output Power (mW)	Combined Peak Output Power (dBm)	Limit (dBm)	Margin (dB)	Result
2412	16.944	16.757	96.8681	19.862	30.0-	10.138	Pass
2437	25.155	24.705	623.1787	27.946	30.0	2.054	Pass
2462	16.101	15.59	76.9717	18.863	30.0	11.137	Pass

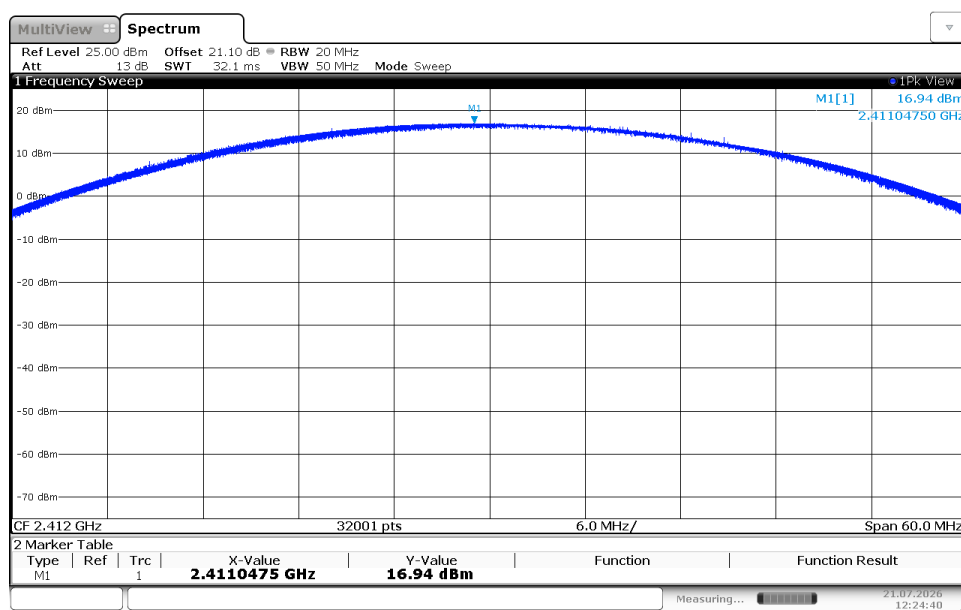


Figure 2.4.6-25 - Peak Conducted Output Power - Antenna 1 - MIMO - 2412 MHz – 802.11n 20 MHz

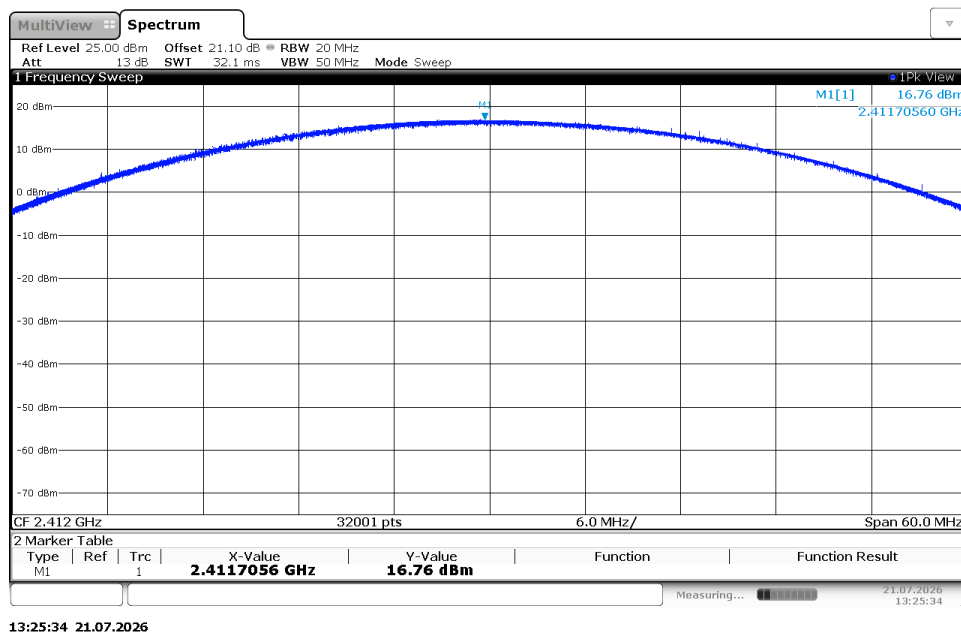


Figure 2.4.6-26 - Peak Conducted Output Power - Antenna 2 - MIMO - 2412 MHz – 802.11n 20 MHz

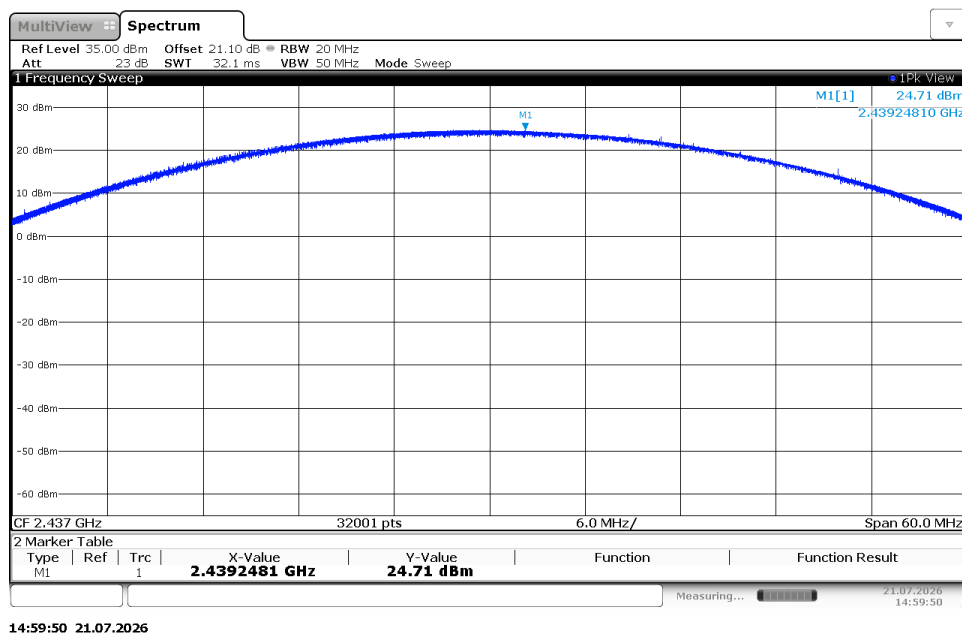


Figure 2.4.6-27 - Peak Conducted Output Power - Antenna 2 - MIMO - 2437 MHz – 802.11n 20 MHz

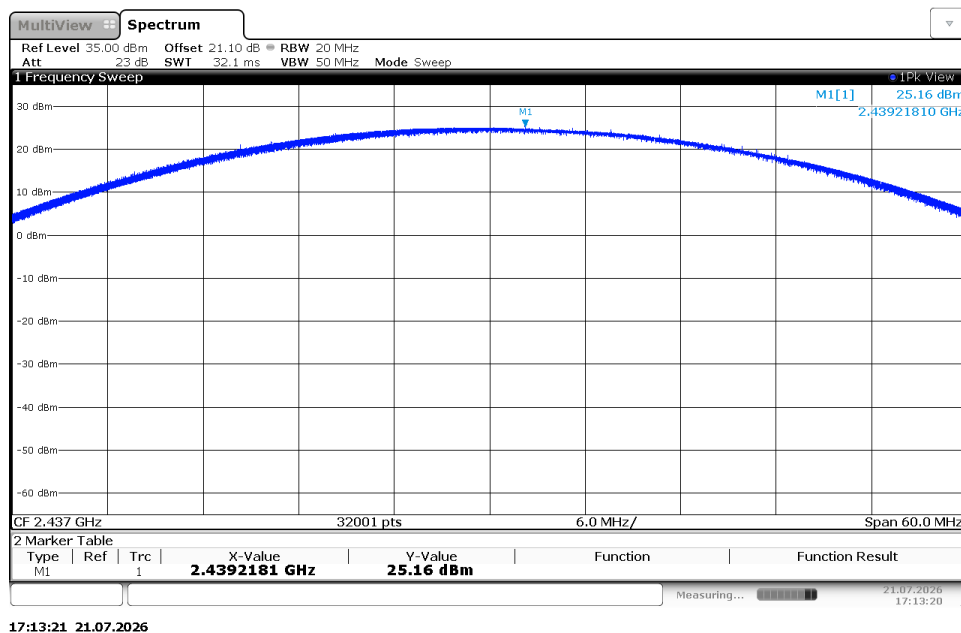


Figure 2.4.6-28 - Peak Conducted Output Power - Antenna 1 - MIMO - 2437 MHz – 802.11n 20 MHz

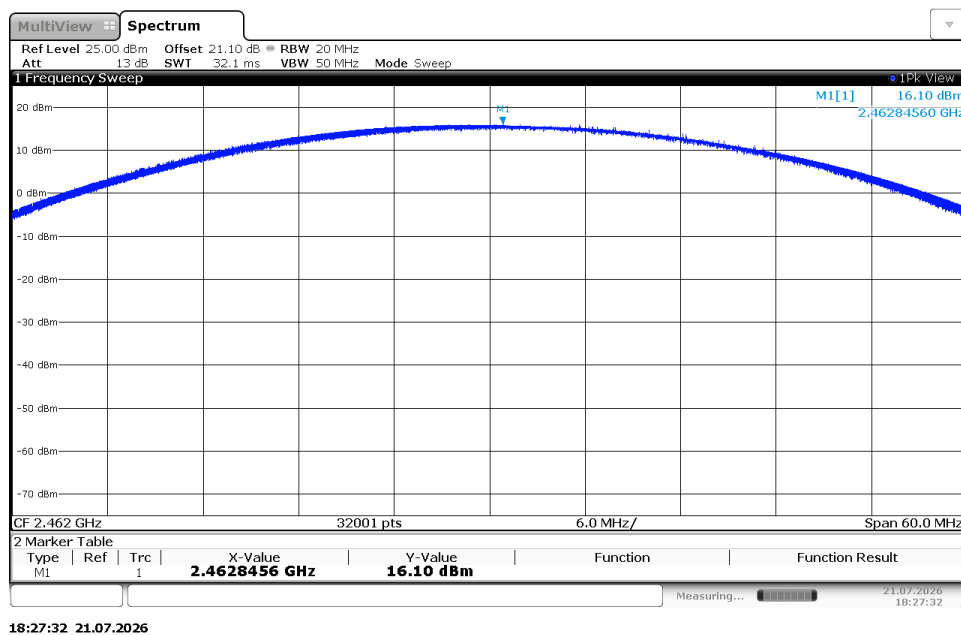


Figure 2.4.6-29 - Peak Conducted Output Power - Antenna 1 - MIMO - 2462 MHz – 802.11n 20 MHz

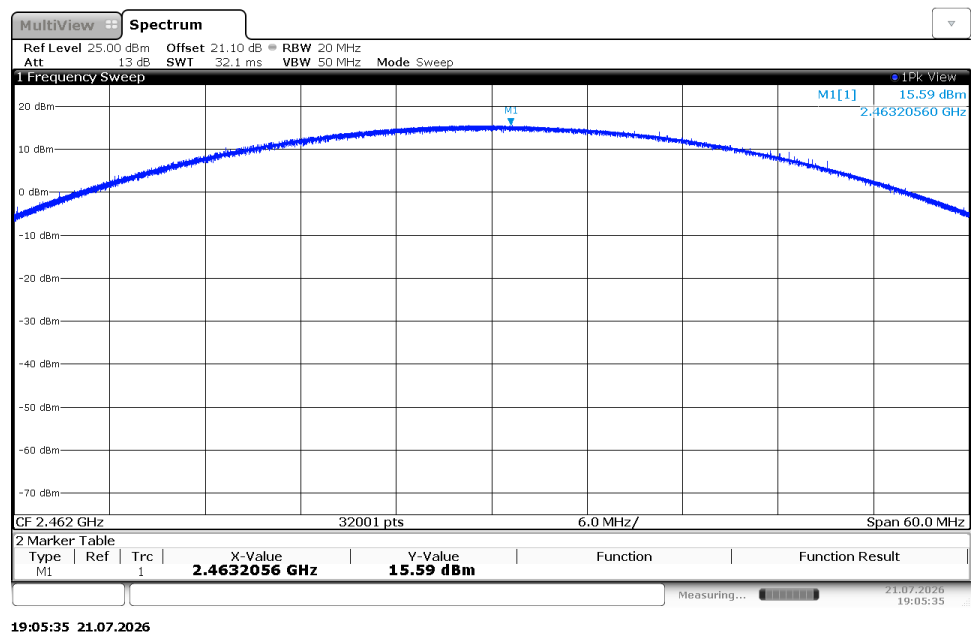


Figure 2.4.6-30 - Peak Conducted Output Power - Antenna 2 - MIMO - 2462 MHz – 802.11n 20 MHz



Table 2.4.6-6 - Peak Conducted Output Power Results - 802.11n 40 MHz - MIMO

Frequency (MHz)	Antenna 1	Antenna 2	Combined Peak Output Power (mW)	Combined Peak Output Power (dBm)	Limit (dBm)	Margin (dB)	Result
2422	16.063	15.651	77.12912	18.872	30	11.128	Pass
2437	20.201	19.57	195.3102	22.907	30	7.093	Pass
2452	14.596	14.479	56.86164	17.548	30	12.452	Pass

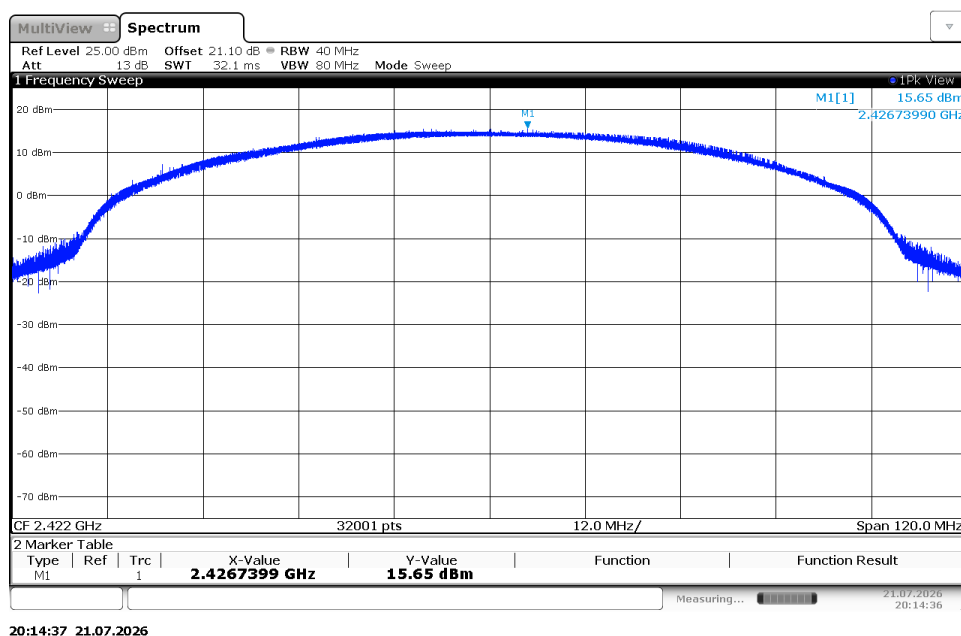
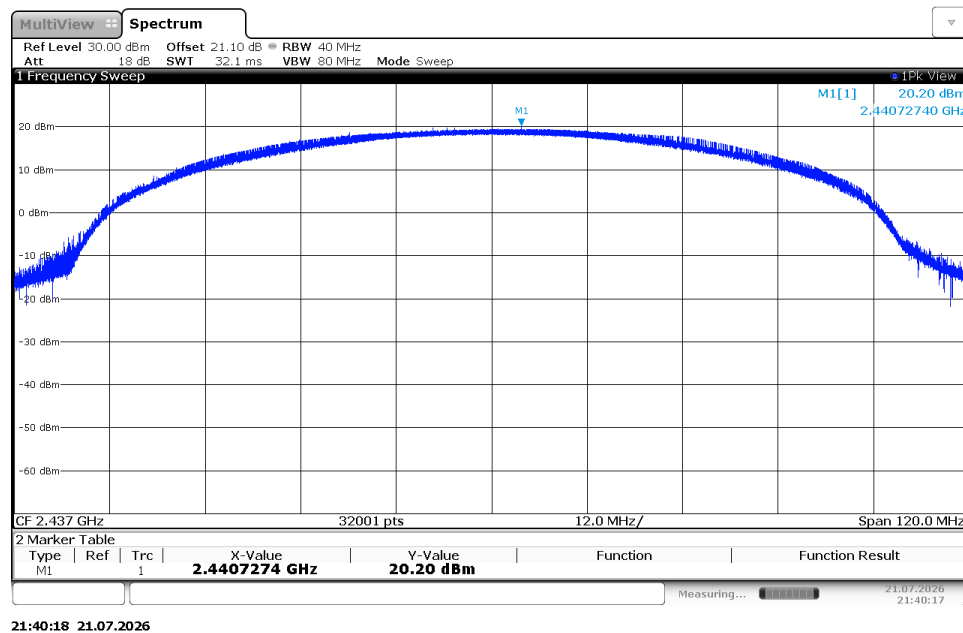
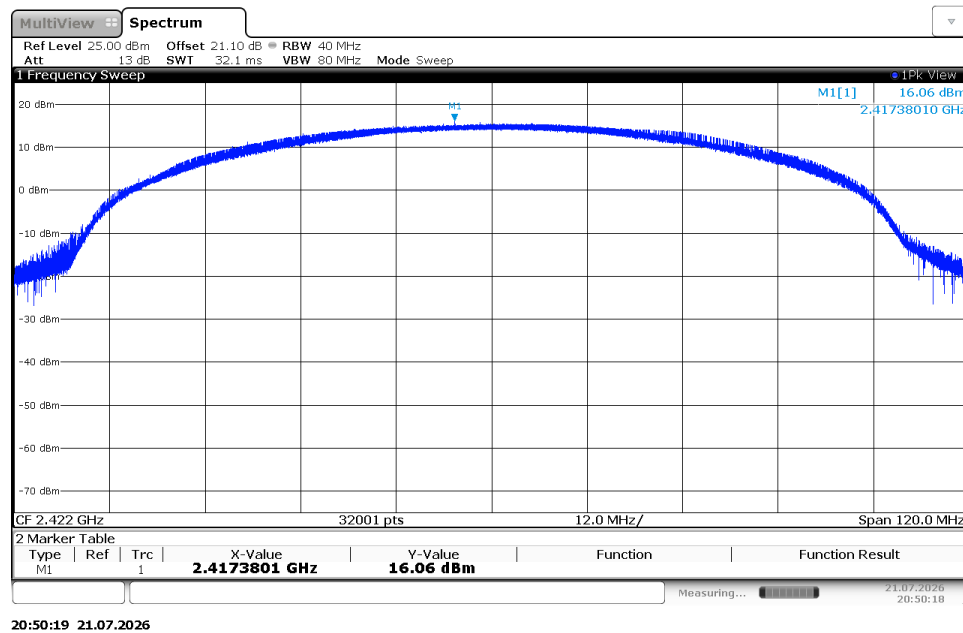


Figure 2.4.6-31 - Peak Conducted Output Power - Antenna 2 - MIMO - 2422 MHz - 802.11n 40 MHz



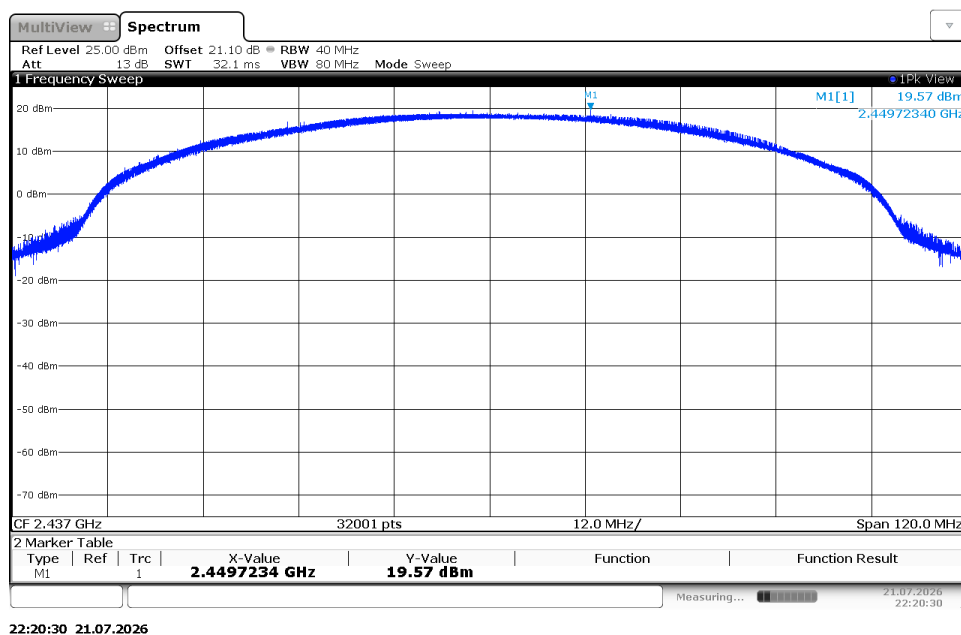


Figure 2.4.6-34 - Peak Conducted Output Power - Antenna 2 - MIMO - 2437 MHz - 802.11n 40 MHz

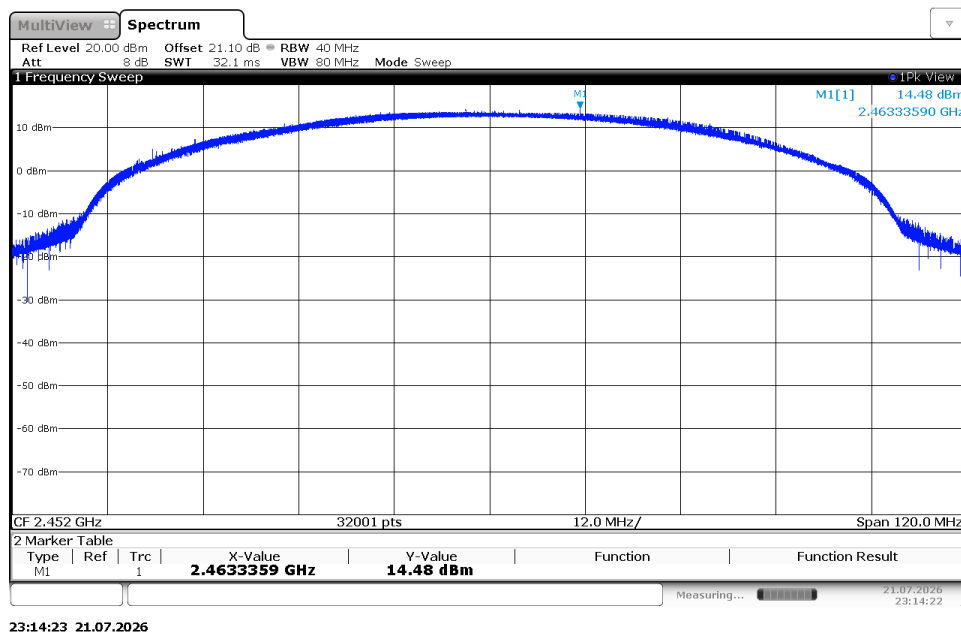


Figure 2.4.6-35 - Peak Conducted Output Power - Antenna 2 - MIMO - 2452 MHz - 802.11n 40 MHz

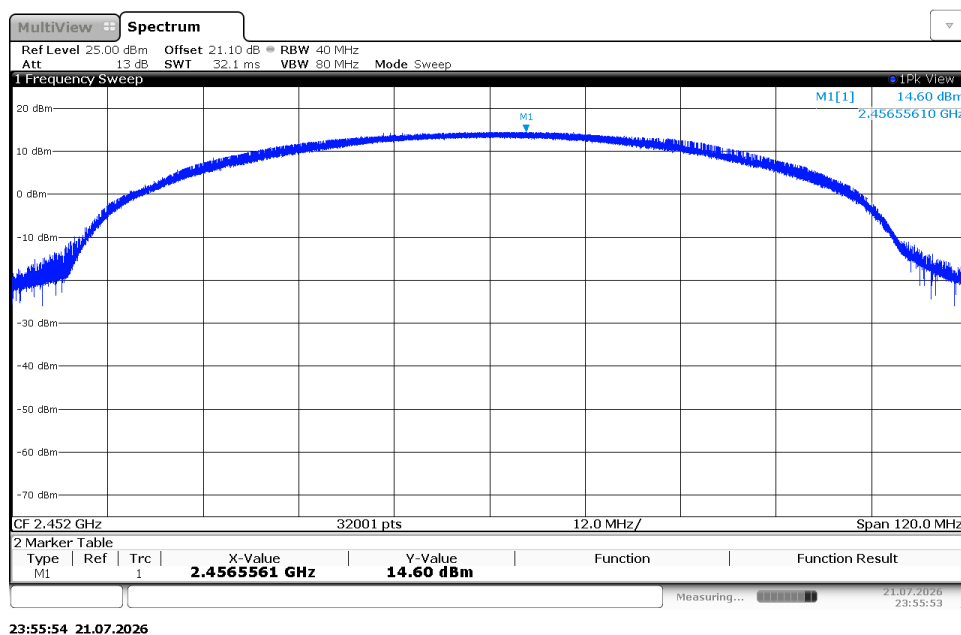


Figure 2.4.6-36 - Peak Conducted Output Power - Antenna 1 - MIMO - 2452 MHz - 802.11n 40 MHz

2.4.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

Device #	Manufacturer	Description	Model	Serial #	Cal Code	Cal Date	Cal Due
DEMC3049	Aeroflex Inmet	Atten 20dB 2.9mm-M/F, DC-26.5GH, 2W	26AH-20	1443	B	05/27/2025 06/12/2026	05/27/2026 06/12/2027
DEMC3085	Rohde & Schwarz	Signal & Spectrum Analyzer	FSW43	103997	G	08/29/2025	08/29/2026
BEMC02112	Teledyne Storm Products	Duratest 175 Cable 26.5GHz	921-0101-036	12-06-698	B	01/12/2026	01/12/2027

Cal Code G = Calibration performed by an accredited outside source.

Cal Code B = Calibration verification performed internally.

Cal Code Y = Passive Device, or Calibration not required when used with other calibrated equipment.

The test equipment was used only during the active cycle of the calibration period.



2.5 Average Output Power (For Information Purposes Only)

2.5.1 Specification Reference

FCC Section 15.247(b)(3)

2.5.2 Equipment Under Test and Modification State

S/N: ADT-GW-FCC-#02

2.5.3 Date of Test

7/16/2026 to 8/24/2026

2.5.4 Test Method

The fundamental emission output power was measured in accordance with ANSI C63.10 Subclause 11.9.2.2.2 Method AVGSA-1. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer through suitable attenuation. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.5.5 Environmental Conditions

Ambient Temperature	22.2 to 23.4°C
Relative Humidity	35 to 41 %
Atmospheric Pressure	981 to 985 mbar

2.5.6 Test Results

AC Powered, Operating

Limit Clause FCC Part 15.247(b)(3)
N/A

Test Summary:

The Peak conducted output power is used to determine compliance to the requirements of FCC 15.247(b)(3). The average power levels are provided for reference purposes only.



Table 2.5.6-1 - Average Conducted Output Power Results - 802.11b

Configuration	Frequency (MHz)	Average Output Power (dBm)
Antenna 1	2412	12.495
Antenna 1	2437	13.724
Antenna 1	2462	12.655
Antenna 2	2412	13.673
Antenna 2	2437	13.376
Antenna 2	2462	13.346

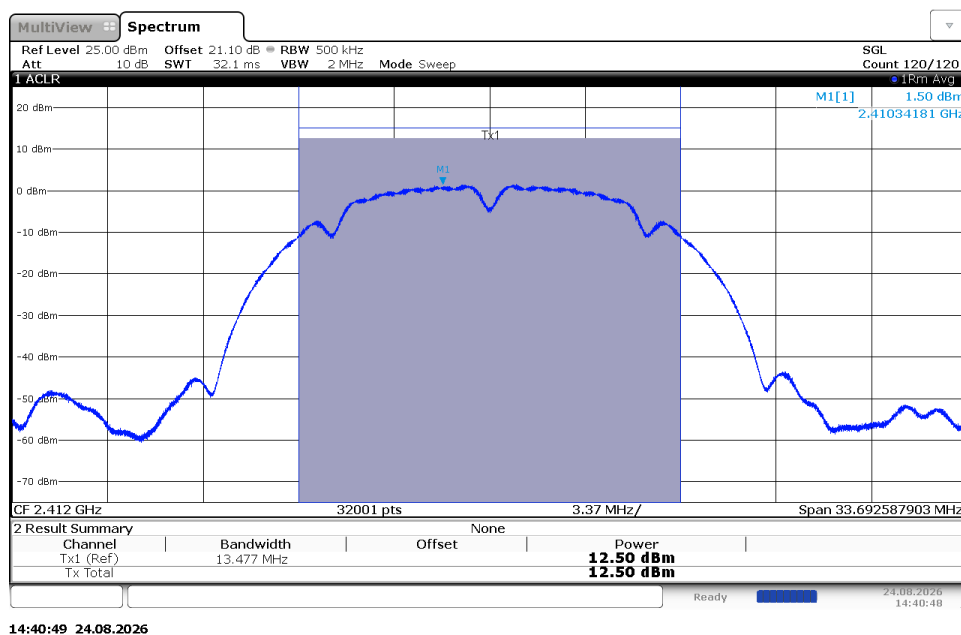


Figure 2.5.6-1 - Average Conducted Output Power - Antenna 1 - 2412 MHz - 802.11b

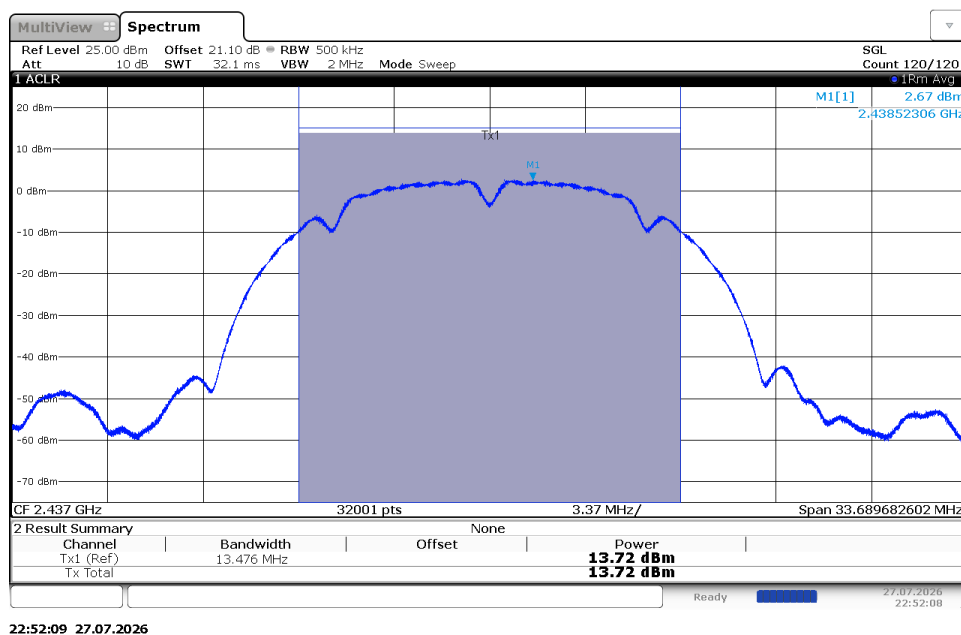


Figure 2.5.6-2 - Average Conducted Output Power - Antenna 1 - 2437 MHz - 802.11b

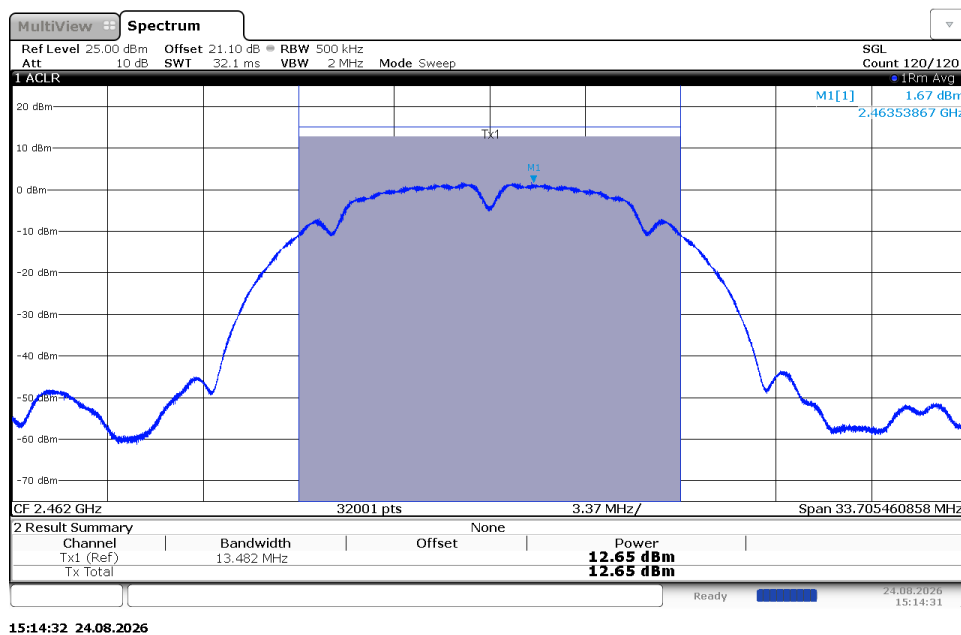


Figure 2.5.6-3 - Average Conducted Output Power - Antenna 1 - 2462 MHz - 802.11b

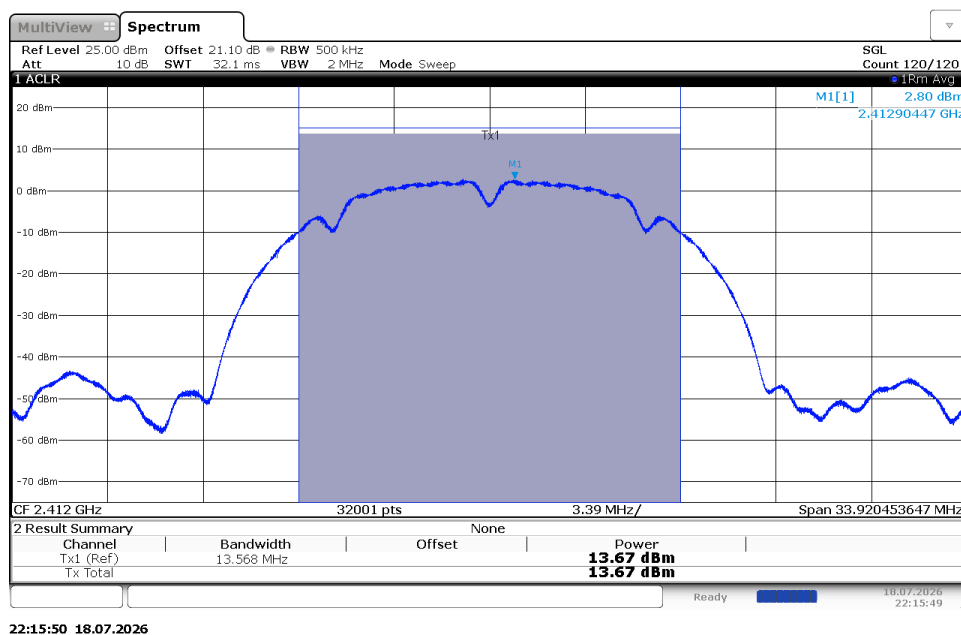


Figure 2.5.6-4 - Average Conducted Output Power - Antenna 2 - 2412 MHz - 802.11b

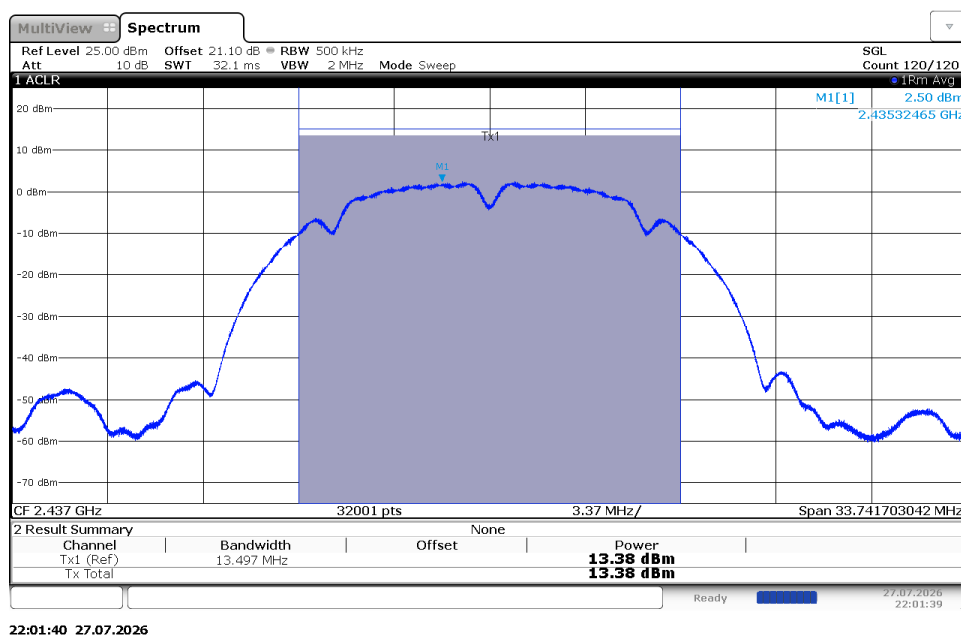


Figure 2.5.6-5 - Average Conducted Output Power - Antenna 2 - 2437 MHz - 802.11b

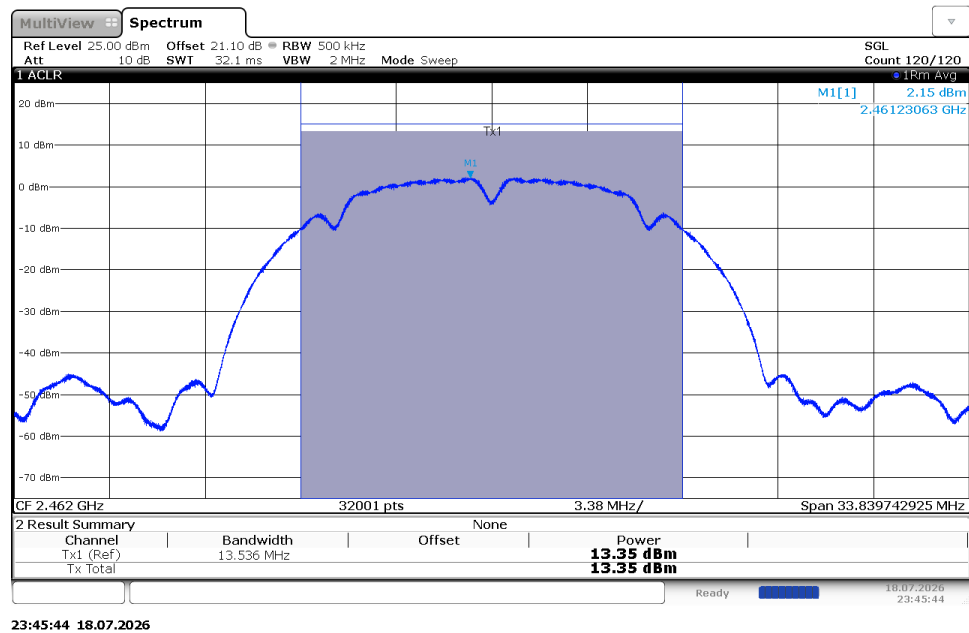


Figure 2.5.6-6 - Average Conducted Output Power - Antenna 2 - 2462 MHz - 802.11b



Table 2.5.6-2 – Average Conducted Output Power Results - 802.11g

Configuration	Frequency (MHz)	Average Output Power (dBm)
Antenna 1	2412	8.423
Antenna 1	2437	14.417
Antenna 1	2462	6.591
Antenna 2	2412	9.708
Antenna 2	2437	14.160
Antenna 2	2462	6.106

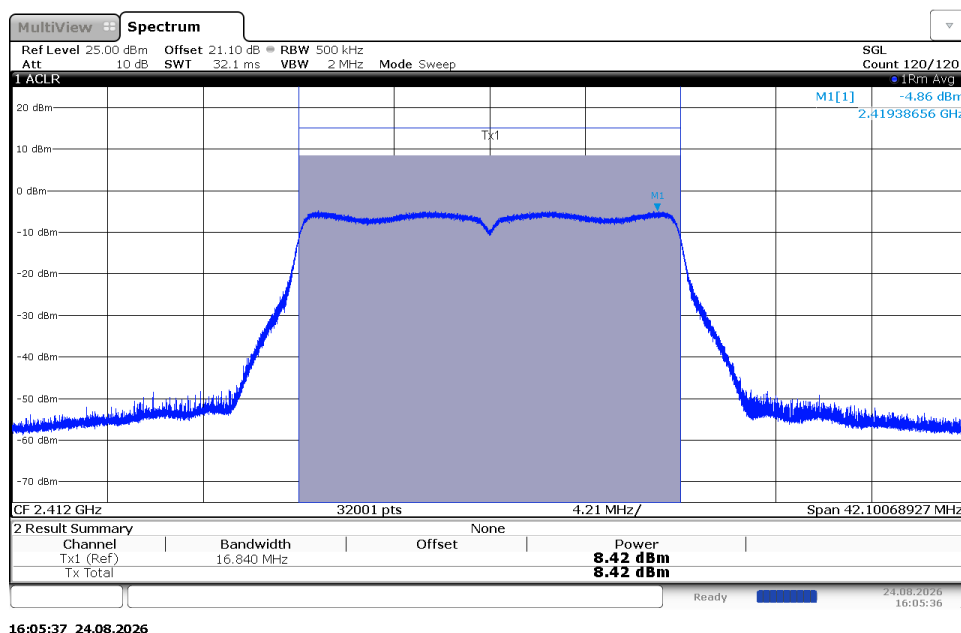


Figure 2.5.6-7 - Average Conducted Output Power - Antenna 1 - 2412 MHz - 802.11g

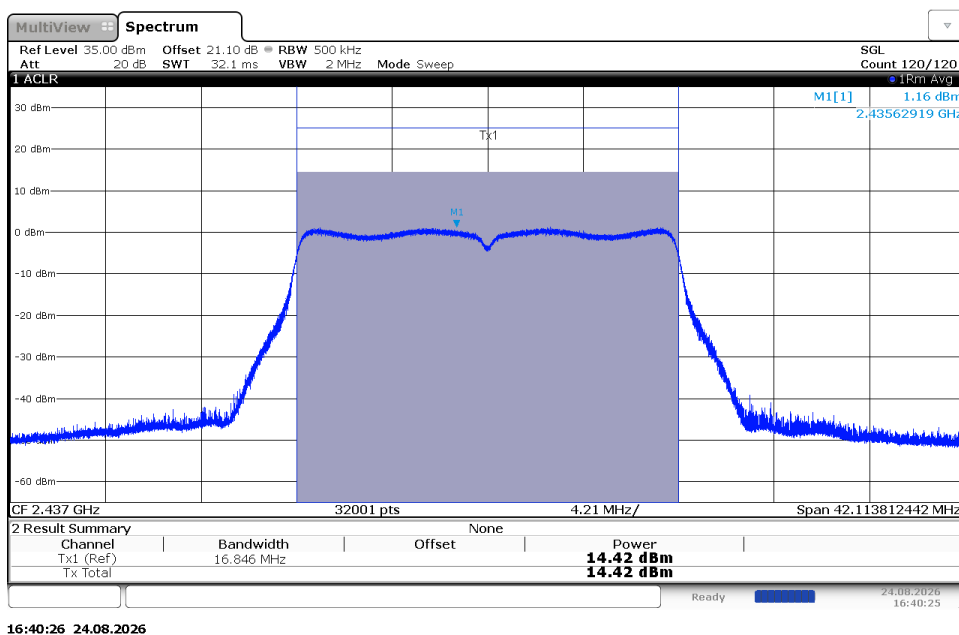


Figure 2.5.6-8 - Average Conducted Output Power - Antenna 1 - 2437 MHz - 802.11g

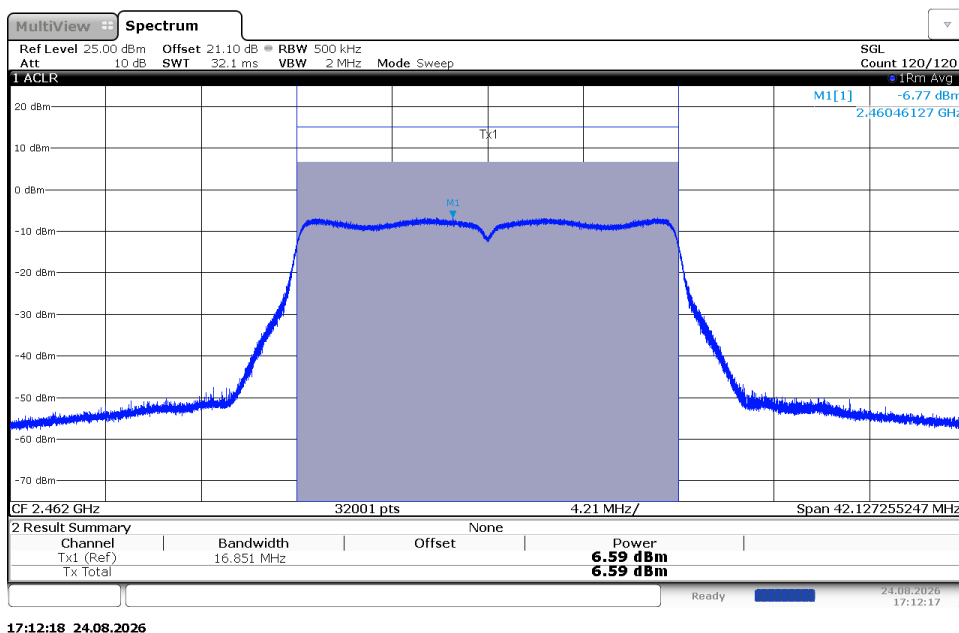


Figure 2.5.6-9 - Average Conducted Output Power - Antenna 1 - 2462 MHz - 802.11g

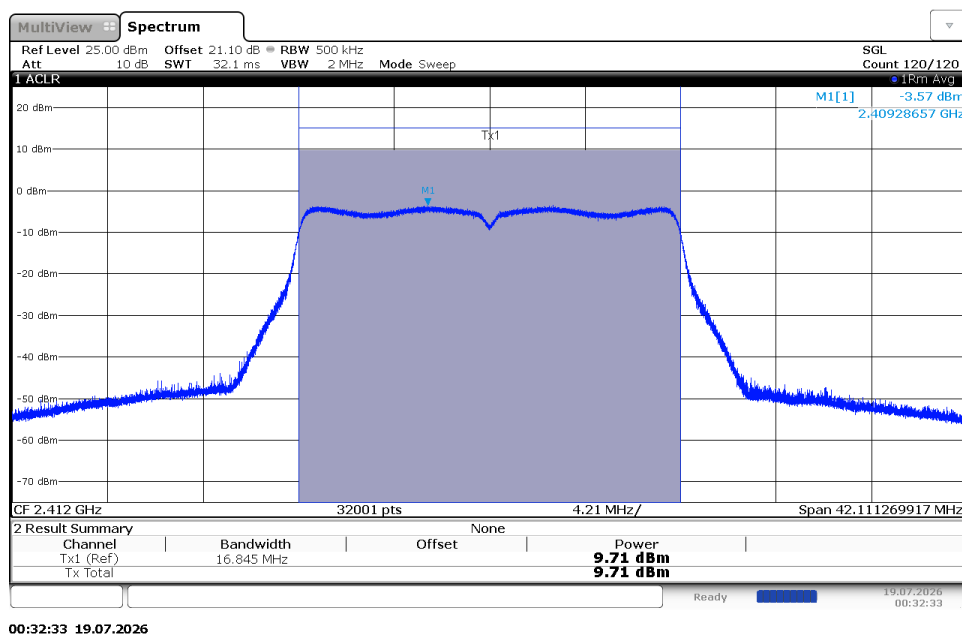


Figure 2.5.6-10 - Average Conducted Output Power - Antenna 2 - 2412 MHz - 802.11g

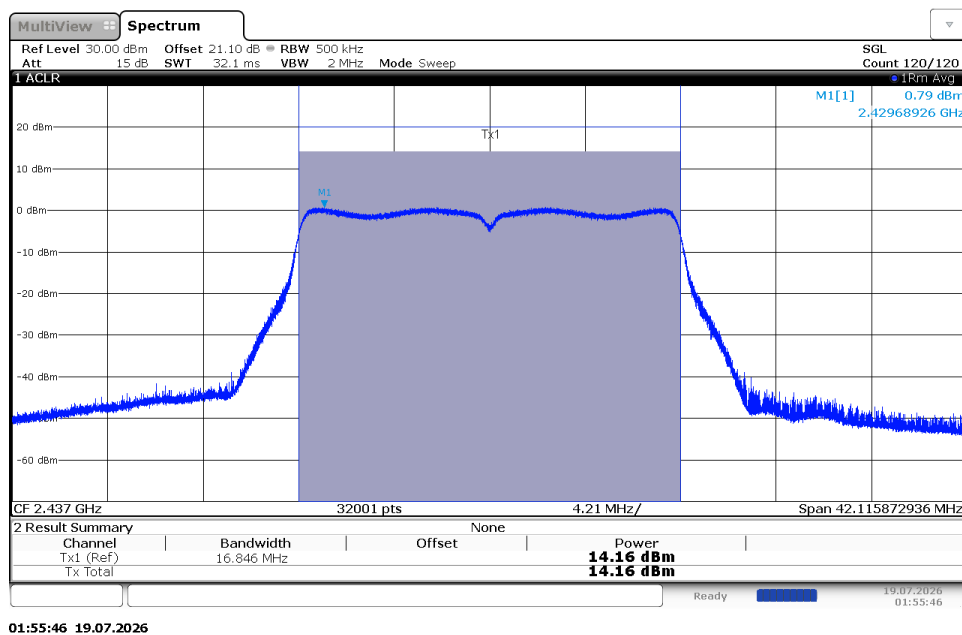


Figure 2.5.6-11 - Average Conducted Output Power - Antenna 2 - 2437 MHz - 802.11g

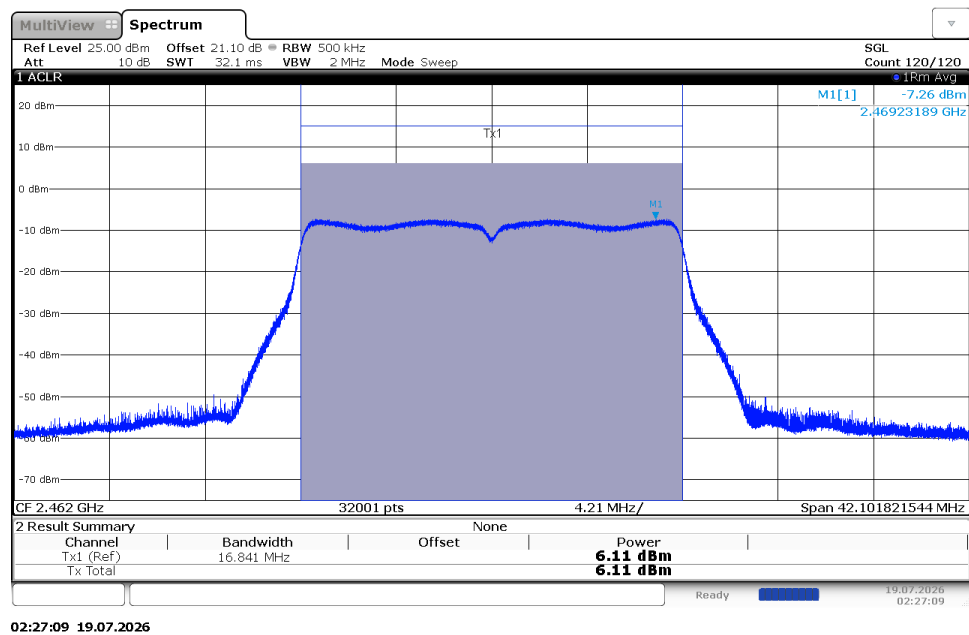
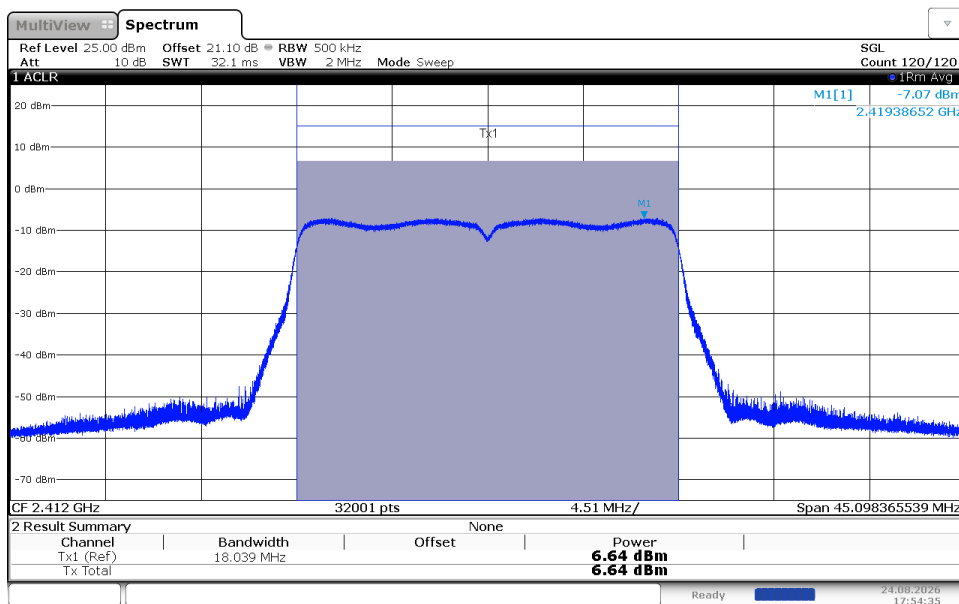


Figure 2.5.6-12 - Average Conducted Output Power - Antenna 2 - 2462 MHz - 802.11g



Table 2.5.6-3 – Average Conducted Output Power Results – 802.11n 20 MHz

Configuration	Frequency (MHz)	Average Output Power (dBm)
Antenna 1	2412	6.643
Antenna 1	2437	14.596
Antenna 1	2462	5.634
Antenna 2	2412	6.693
Antenna 2	2437	14.318
Antenna 2	2462	5.235



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Figure 2.5.6-13 - Average Conducted Output Power - Antenna 1 - 2412 MHz – 802.11n 20 MHz

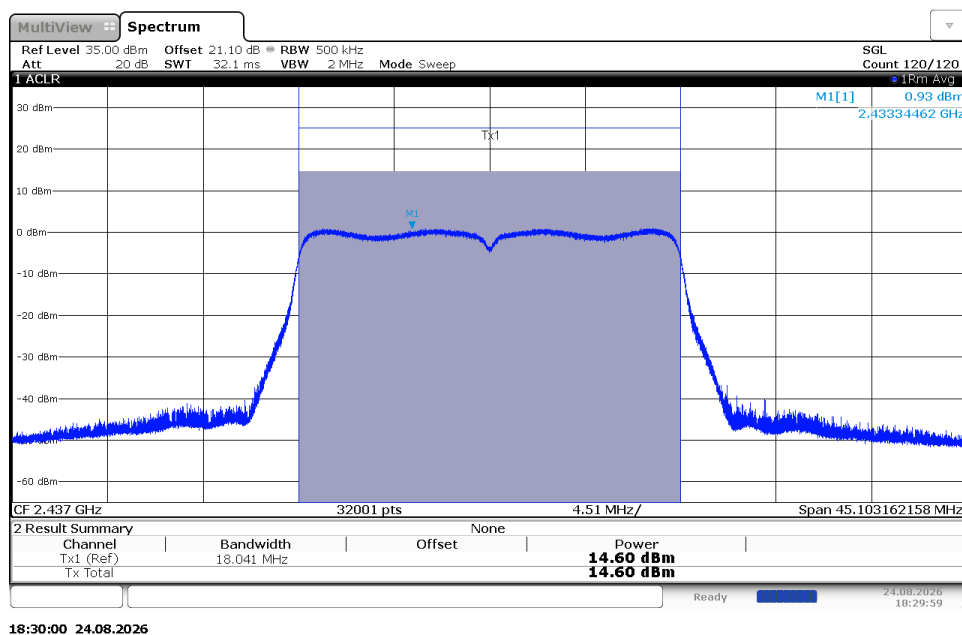


Figure 2.5.6-14 - Average Conducted Output Power - Antenna 1 - 2437 MHz – 802.11n 20 MHz

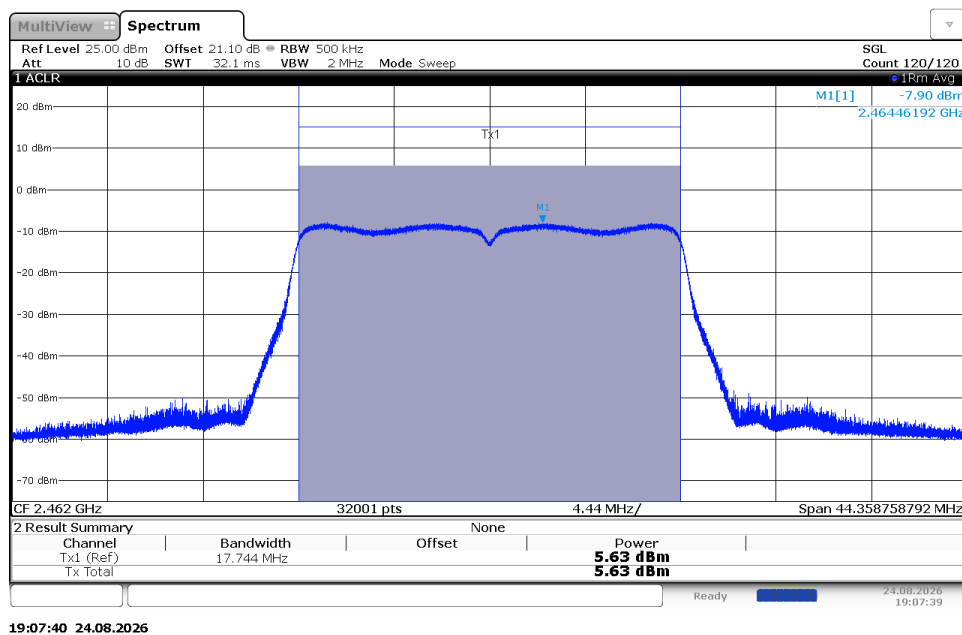


Figure 2.5.6-15 - Average Conducted Output Power - Antenna 1 - 2462 MHz – 802.11n 20 MHz

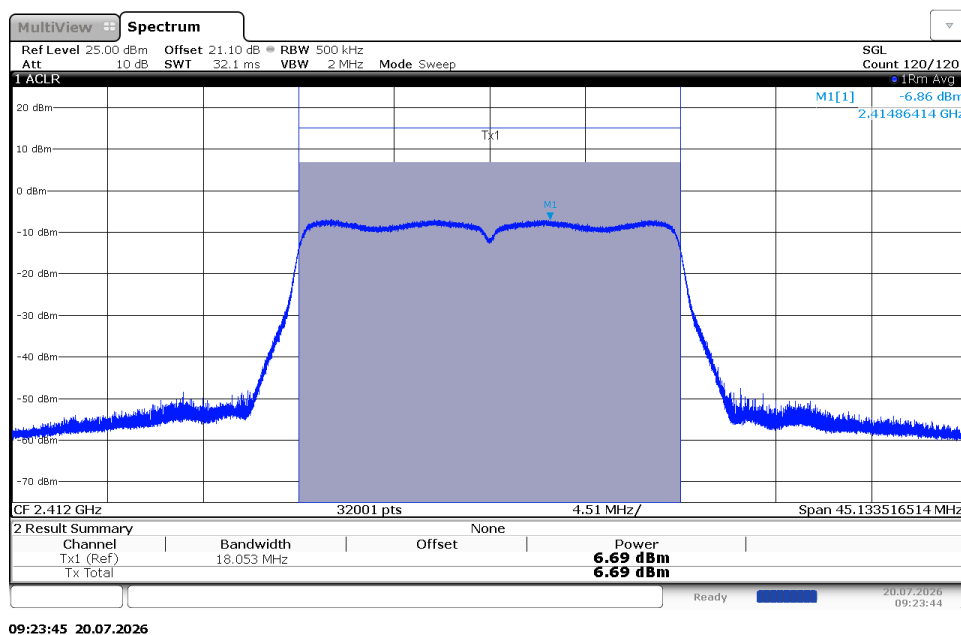


Figure 2.5.6-16 - Average Conducted Output Power - Antenna 2 - 2412 MHz – 802.11n 20 MHz

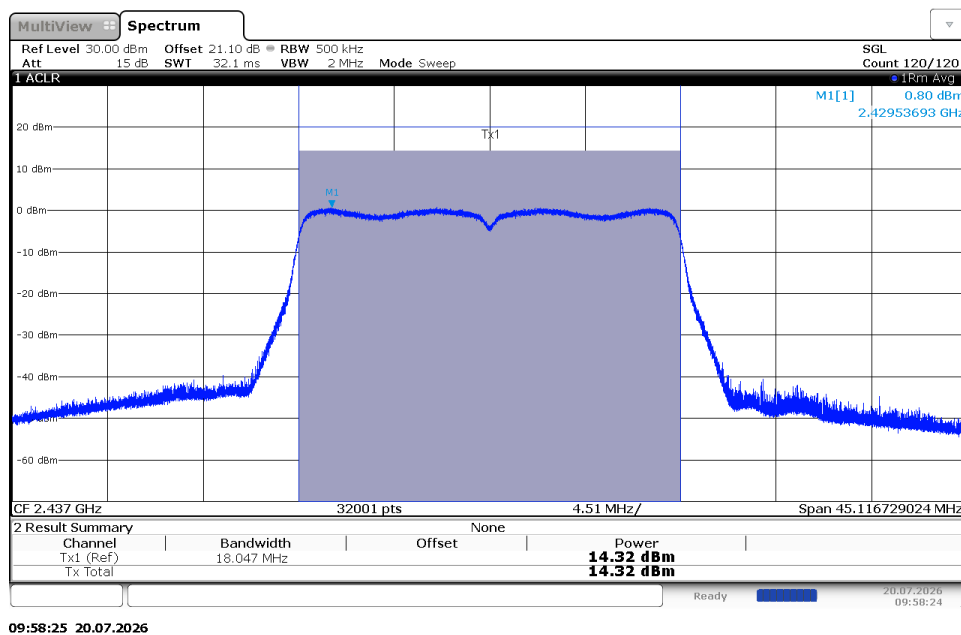


Figure 2.5.6-17 - Average Conducted Output Power - Antenna 2 - 2437 MHz – 802.11n 20 MHz

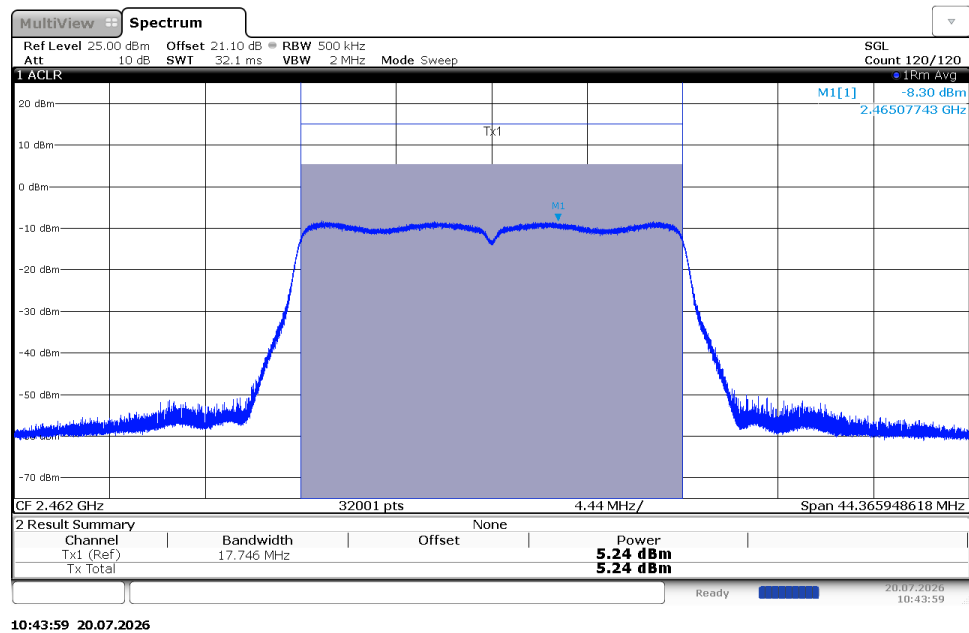


Figure 2.5.6-18 - Average Conducted Output Power - Antenna 2 - 2462 MHz – 802.11n 20 MHz



Table 2.5.6-4 – Average Conducted Output Power Results - 802.11n 40MHz

Configuration	Frequency (MHz)	Measured Output Power (dBm)	Duty Cycle Factor (dB)	Average Power (dBm)
Antenna 1	2422	4.563	0.11	4.673
Antenna 1	2437	8.549	0.11	8.659
Antenna 1	2452	3.588	0.11	3.698
Antenna 2	2422	4.437	0.11	4.547
Antenna 2	2437	8.258	0.11	8.368
Antenna 2	2452	3.168	0.11	3.278

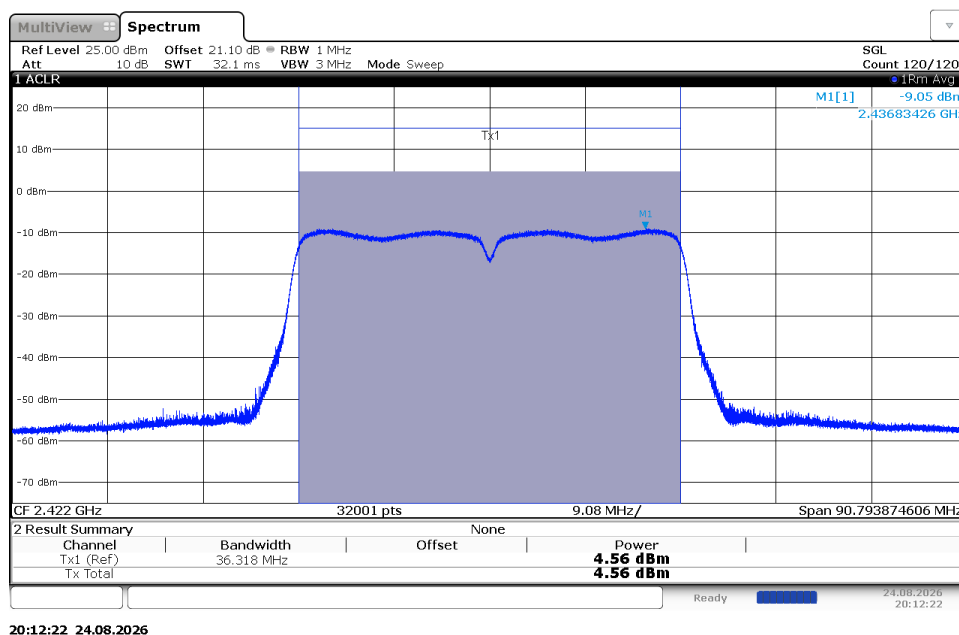


Figure 2.5.6-19 - Average Conducted Output Power - Antenna 1 - 2422 MHz - 802.11n 40MHz

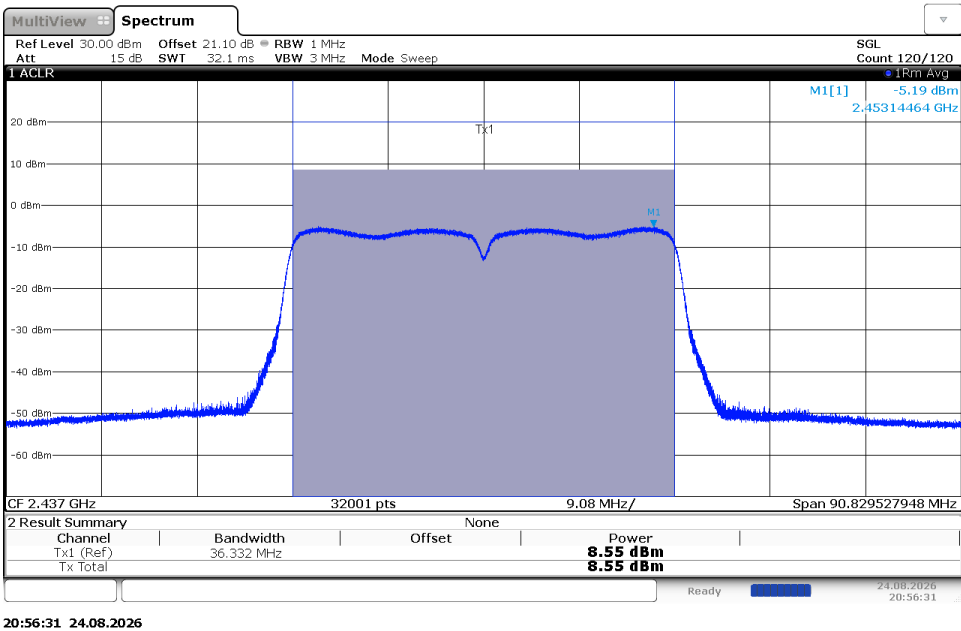


Figure 2.5.6-20 - Average Conducted Output Power - Antenna 1 - 2437 MHz - 802.11n 40MHz

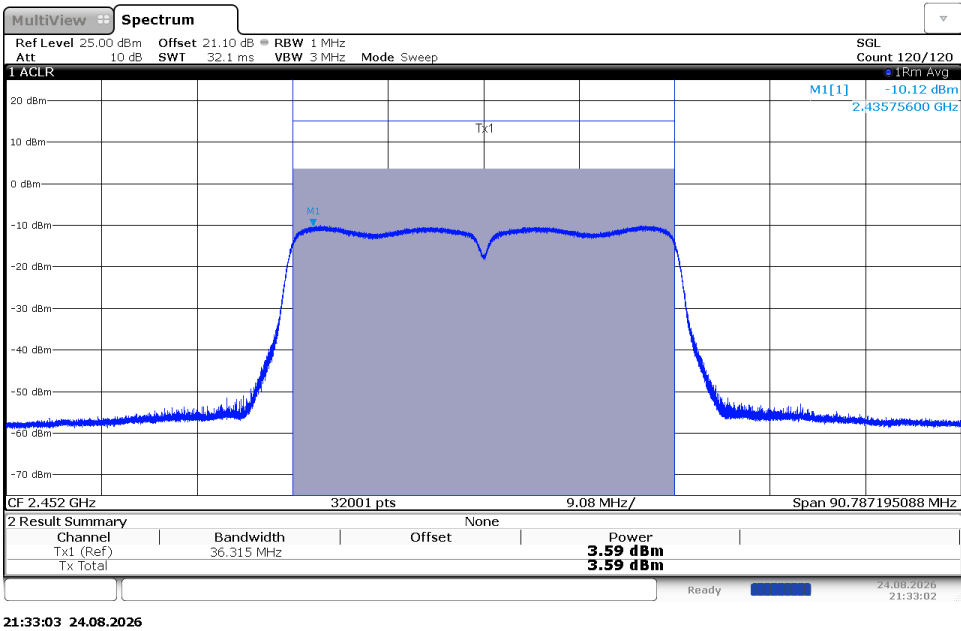


Figure 2.5.6-21 - Average Conducted Output Power - Antenna 1 - 2452 MHz - 802.11n 40MHz

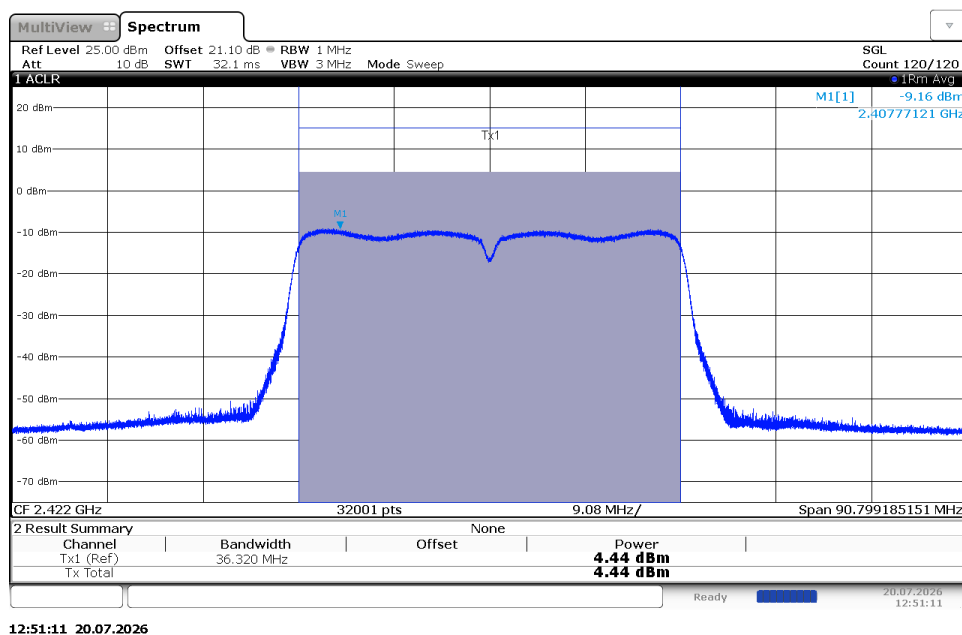


Figure 2.5.6-22 - Average Conducted Output Power - Antenna 2 - 2422 MHz - 802.11n 40MHz

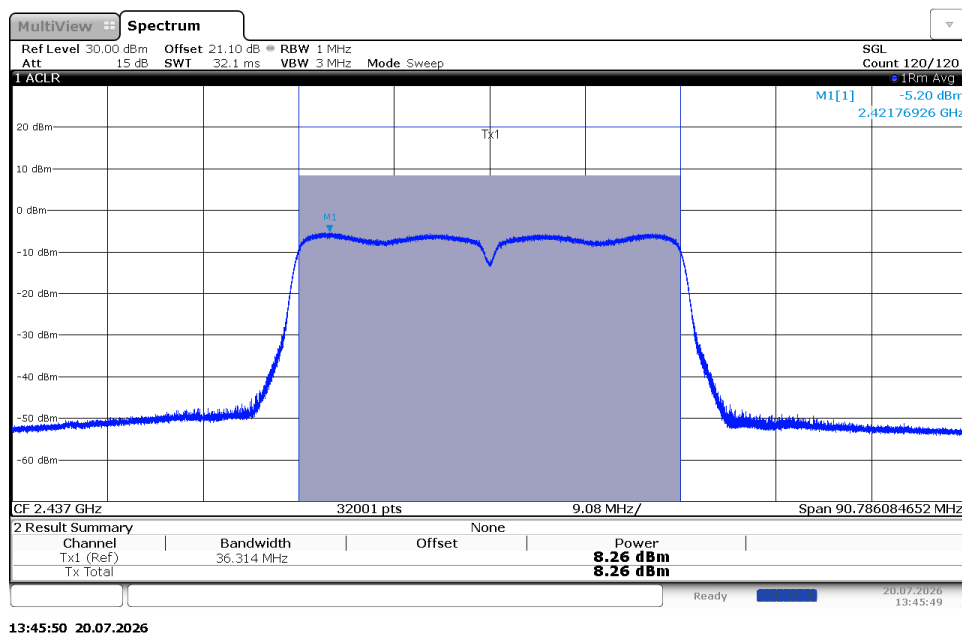


Figure 2.5.6-23 - Average Conducted Output Power - Antenna 2 - 2437 MHz - 802.11n 40MHz

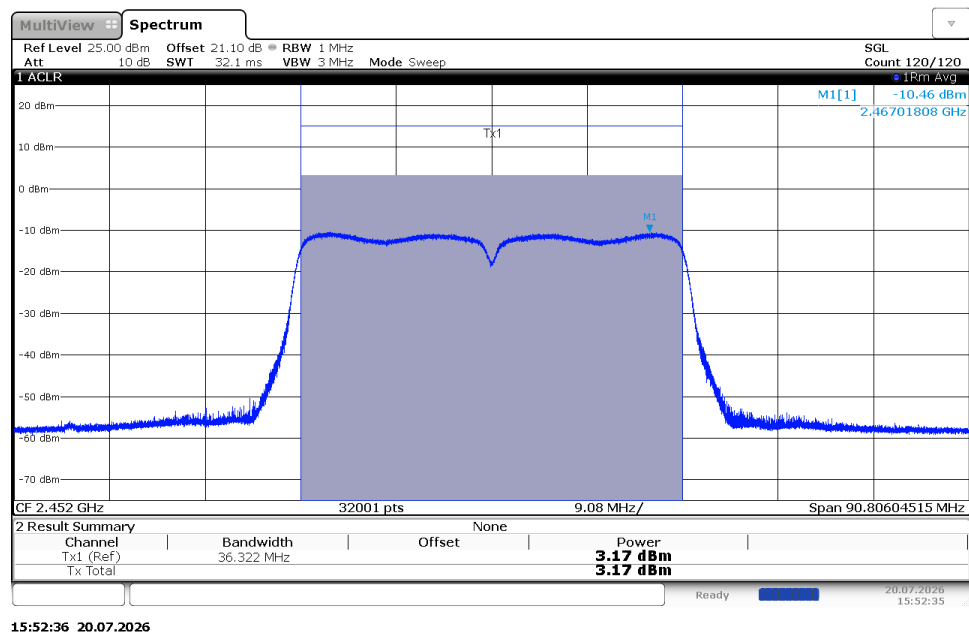
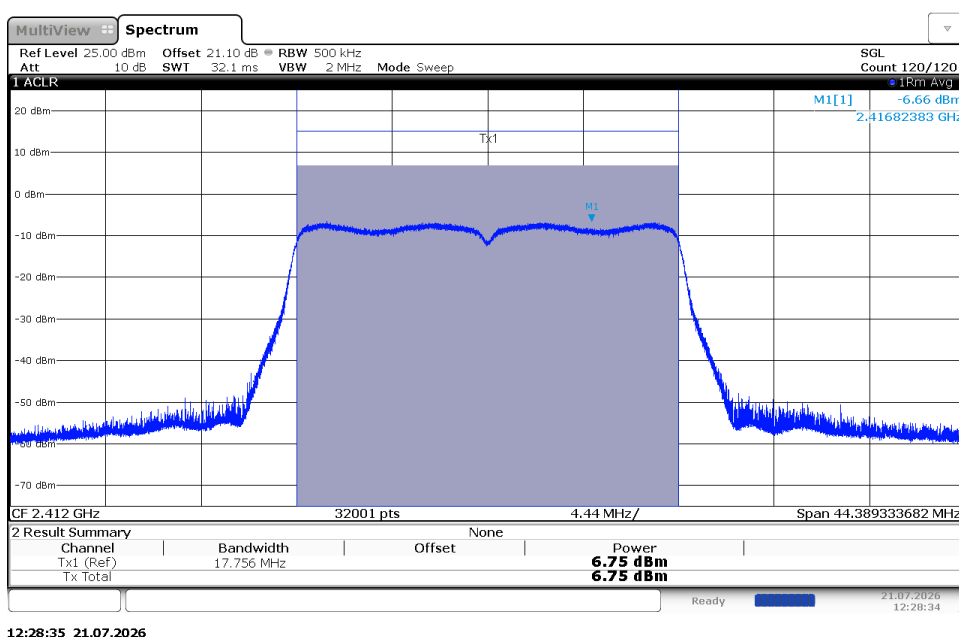


Figure 2.5.6-24 - Average Conducted Output Power - Antenna 2 - 2452 MHz - 802.11n 40MHz


Table 2.5.6-5 – Average Conducted Output Power Results - 802.11n 20MHz - MIMO

Frequency (MHz)	Antenna 1	Antenna 2	Average Output Power (mW)	Average Output Power (dBm)	Duty Cycle Factor (dB)	Average Power (dBm)
2412	6.75	6.514	9.212771	9.644	0.11	9.754
2437	14.605	14.177	55.03729	17.407	0.11	17.517
2462	5.721	5.159	7.013559	8.459	0.11	8.569


Figure 2.5.6-25 - Average Conducted Output Power - Antenna 1 - 2412 MHz - 802.11n 20MHz MIMO

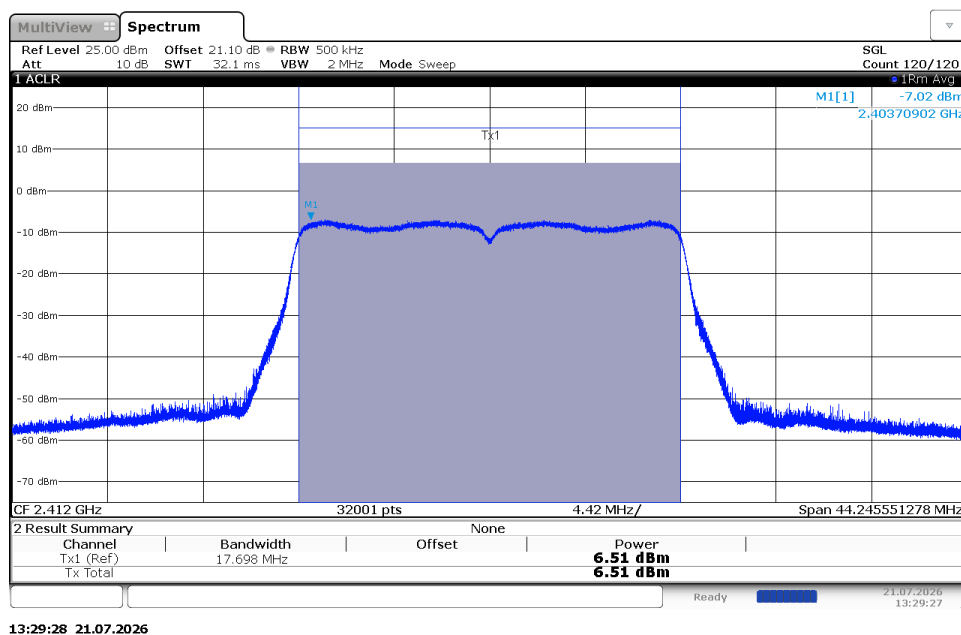


Figure 2.5.6-26 - Average Conducted Output Power - Antenna 2 - 2412 MHz - 802.11n 20MHz MIMO

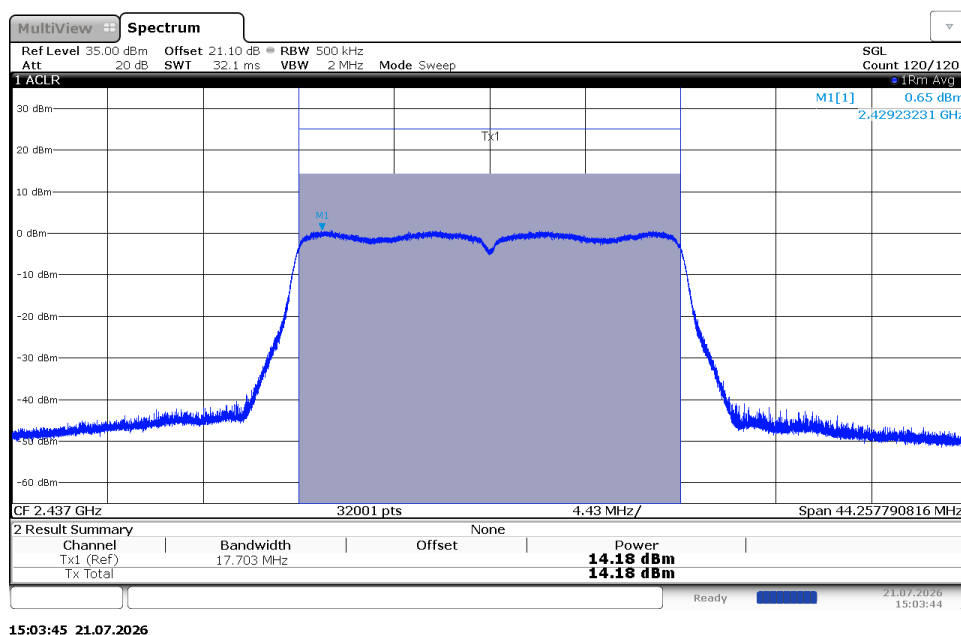


Figure 2.5.6-27 - Average Conducted Output Power - Antenna 2 - 2437 MHz - 802.11n 20MHz MIMO

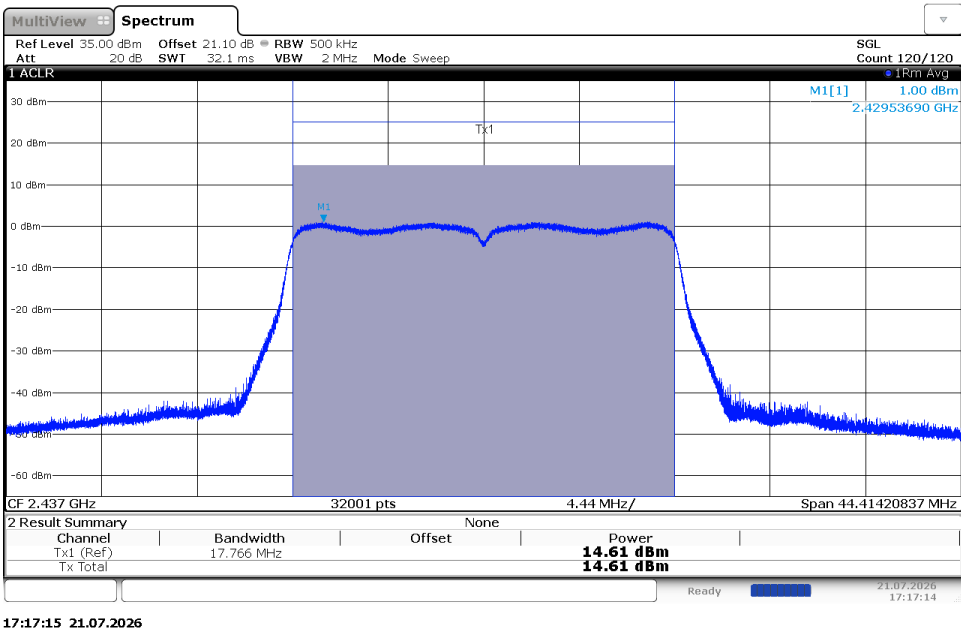


Figure 2.5.6-28 - Average Conducted Output Power - Antenna 1 - 2437 MHz - 802.11n 20MHz MIMO

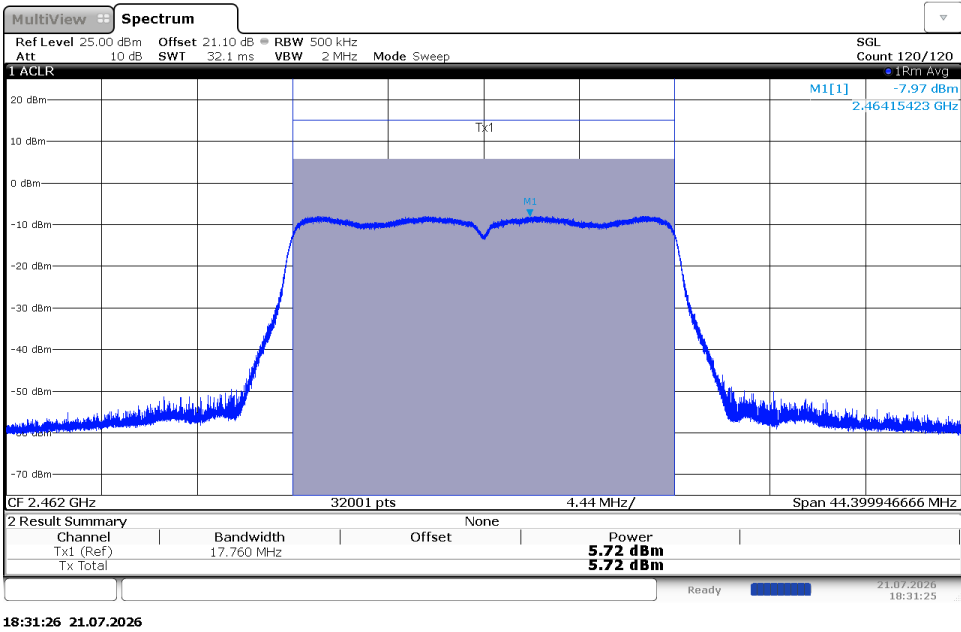


Figure 2.5.6-29 - Average Conducted Output Power - Antenna 1 - 2462 MHz - 802.11n 20MHz MIMO

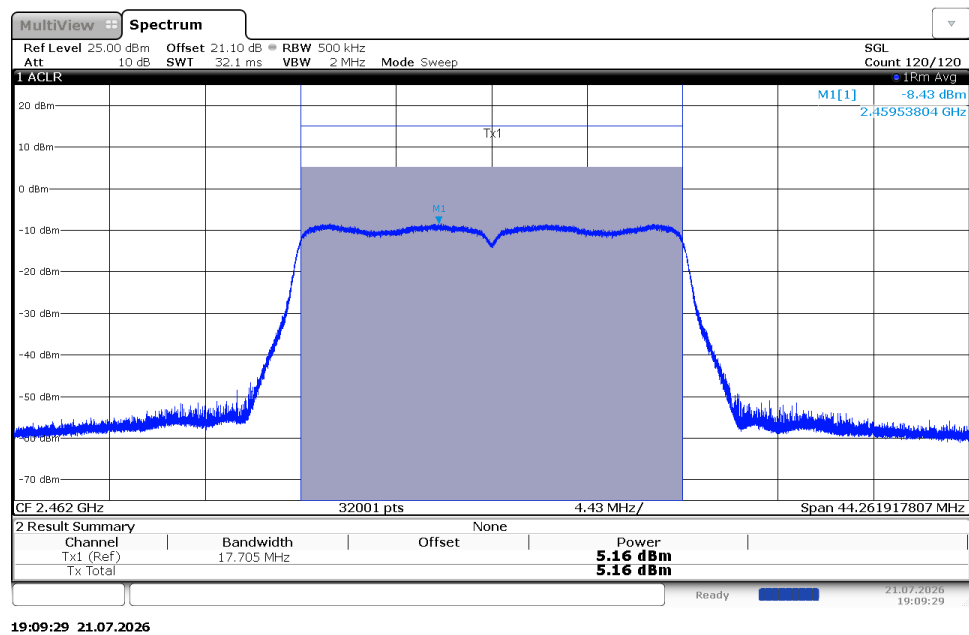
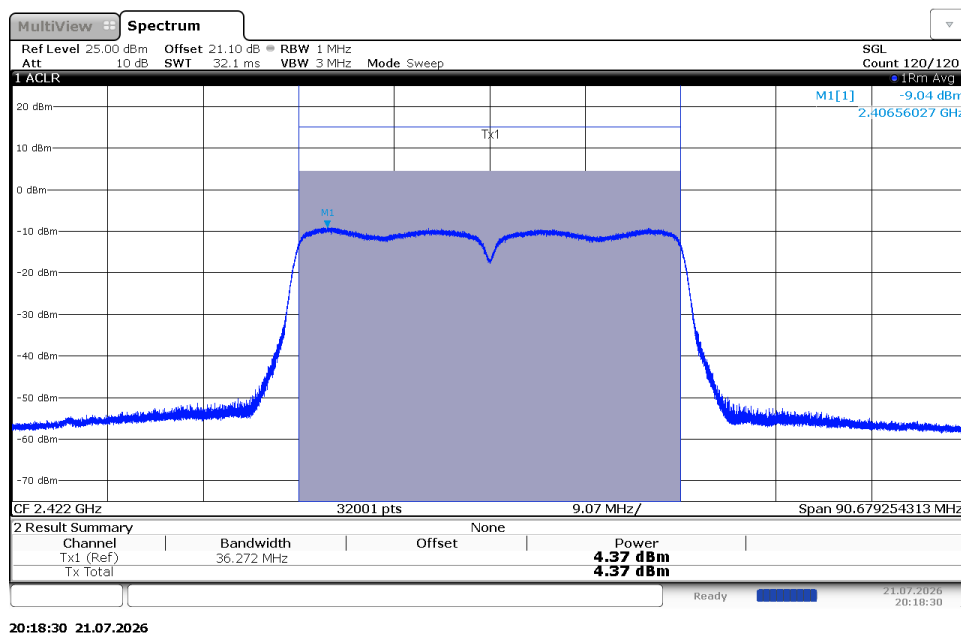


Figure 2.5.6-30 - Average Conducted Output Power - Antenna 2 - 2462 MHz - 802.11n 20MHz MIMO

**Table 2.5.6-6 – Average Conducted Output Power Results - 802.11n 40MHz - MIMO**

Frequency (MHz)	Antenna 1	Antenna 2	Peak Output Power (mW)	Peak Output Power (dBm)	Duty Cycle Factor (dB)	Average Power (dBm)
2422	4.494	4.37	5.549761	7.443	0.21	7.653
2437	8.564	8.204	13.79758	11.398	0.21	11.608
2452	3.526	3.068	4.278913	6.313	0.21	6.523

**Figure 2.5.6-31 - Average Conducted Output Power - MIMO Antenna 2 - 2422 MHz - 802.11n 40 MHz**

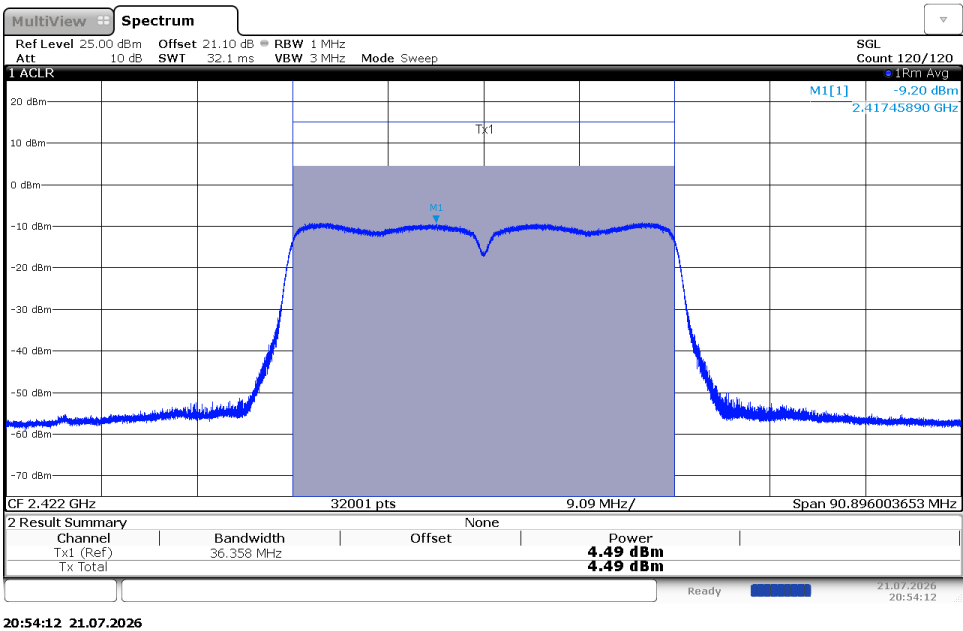


Figure 2.5.6-32 - Average Conducted Output Power - MIMO Antenna 1 - 2422 MHz - 802.11n 40 MHz

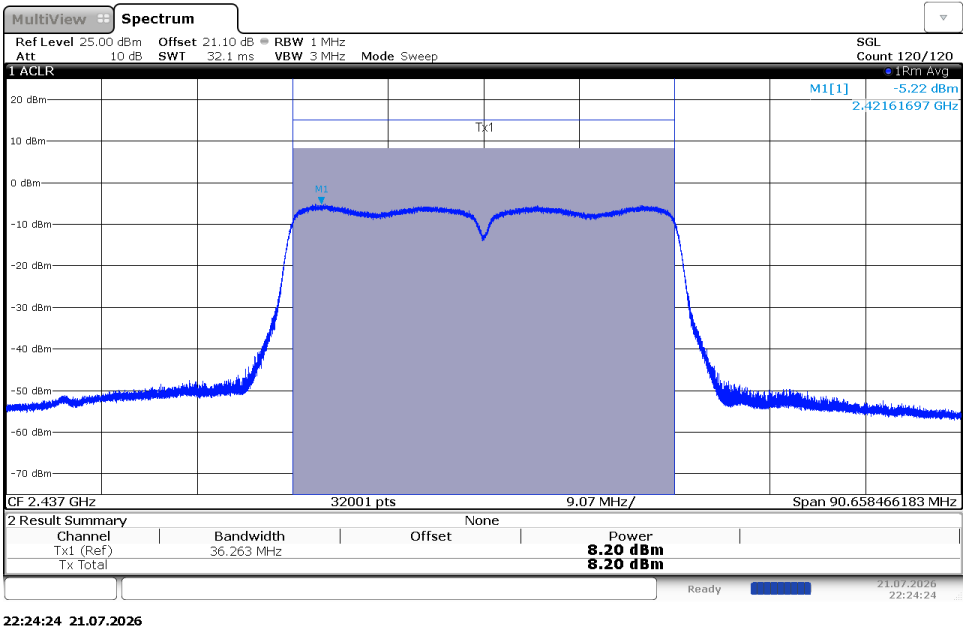


Figure 2.5.6-33 - Average Conducted Output Power - MIMO Antenna 2 - 2437 MHz - 802.11n 40 MHz

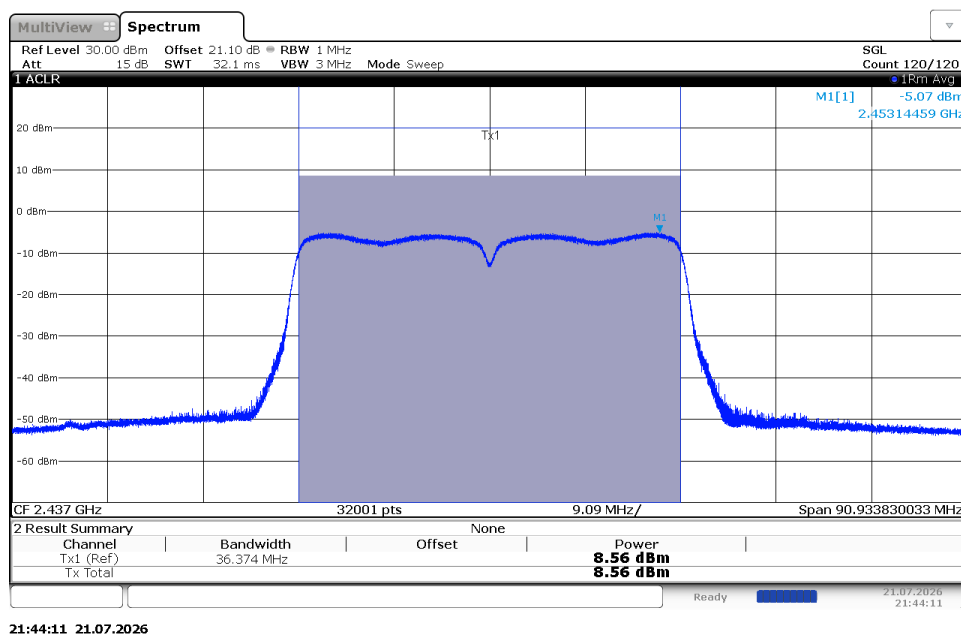


Figure 2.5.6-34 - Average Conducted Output Power - MIMO Antenna 1 - 2437 MHz - 802.11n 40 MHz

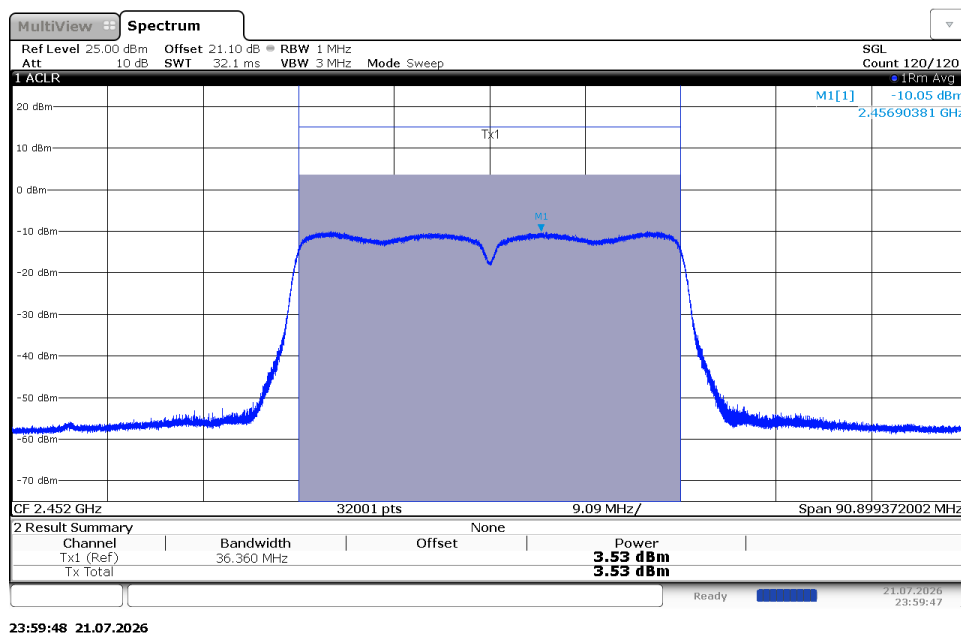


Figure 2.5.6-35 - Average Conducted Output Power - MIMO Antenna 1 - 2452 MHz - 802.11n 40 MHz

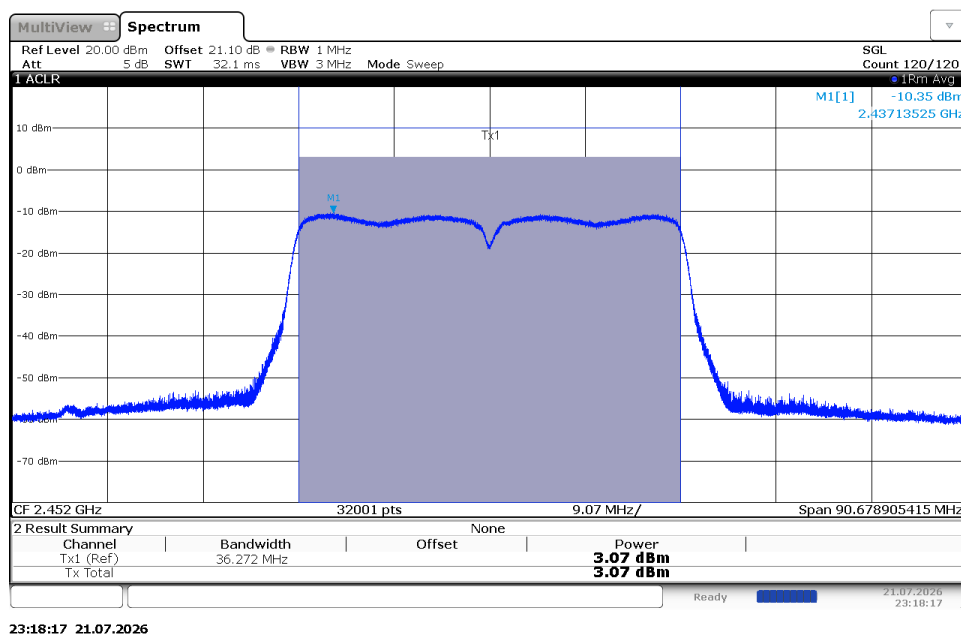


Figure 2.5.6-36 - Average Conducted Output Power - MIMO Antenna 2 - 2452 MHz - 802.11n 40 MHz

2.5.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

Device #	Manufacturer	Description	Model	Serial #	Cal Code	Cal Date	Cal Due
DEMC3049	Aeroflex Inmet	Atten 20dB 2.9mm-M/F, DC-26.5GH, 2W	26AH-20	1443	B	05/27/2025 06/12/2026	05/27/2026 06/12/2027
DEMC3085	Rohde & Schwarz	Signal & Spectrum Analyzer	FSW43	103997	G	08/29/2025	08/29/2026
BEMC02112	Teledyne Storm Products	Duratest 175 Cable 26.5GHz	921-0101-036	12-06-698	B	01/12/2026	01/12/2027

Cal Code G = Calibration performed by an accredited outside source.

Cal Code B = Calibration verification performed internally.

Cal Code Y = Passive Device, or Calibration not required when used with other calibrated equipment.

The test equipment was used only during the active cycle of the calibration period.