



2.6 Band-Edge Compliance of RF Conducted Emissions

2.6.1 Specification Reference

FCC: Section 15.247(d)

2.6.2 Equipment Under Test and Modification State

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

2.6.3 Date of Test

7/16/2026 to 8/24/2026

2.6.4 Test Method

The RF Conducted Emissions at the Band-Edges were measured in accordance with Subclause 11.11 of ANSI C63.10. The RF output port of the EUT was connected to the input of the spectrum analyzer through suitable attenuation. The EUT was investigated at the lowest and highest channel available to determine band-edge compliance. For each measurement the spectrum analyzer's RBW was set to 100 kHz, and the VBW was set to ≥ 300 kHz. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.6.5 Environmental Conditions

Ambient Temperature	22.0 to 23.0 °C
Relative Humidity	40.0 to 41.0 %
Atmospheric Pressure	983.0 to 985.0 mbar

2.6.6 Test Results

AC Powered, Operating

Limit Clause FCC Section 15.247(d)

In any 100 kHz bandwidth outside of the frequency band the radio frequency power shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

Test Summary:

All the emissions at the band-edge were attenuated by at least 20 dB below the fundamental.

Test Result: Pass

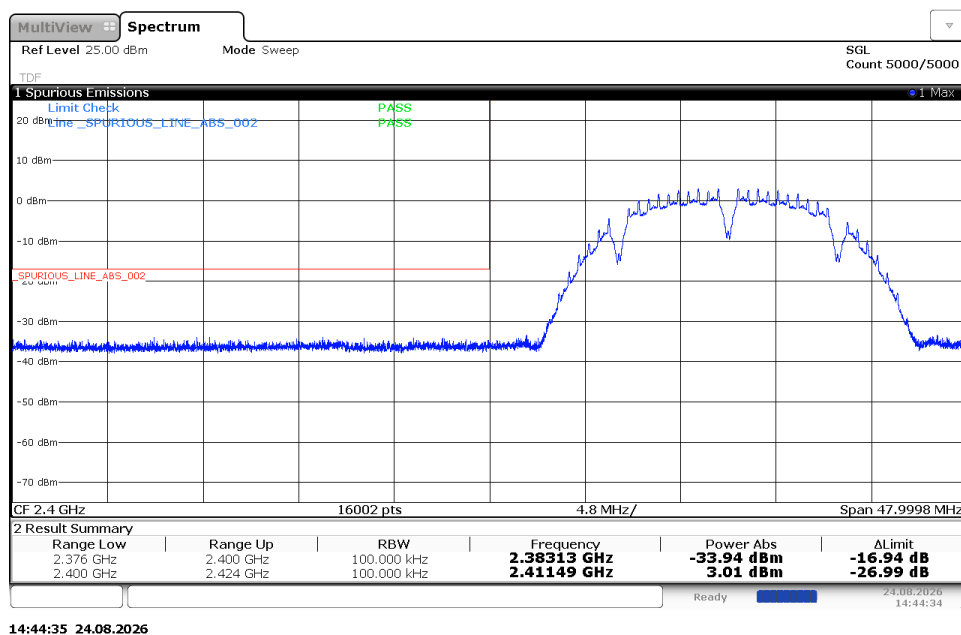


Figure 2.6.6-1 – Conducted Band Edge – Antenna 1 - 2412 MHz - 802.11b

Table 2.6.6-1 – Conducted Band-Edge Results - Antenna 1 - 2412 MHz – 802.11b

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2383.12568	-33.938	-17.00	-16.938	Pass

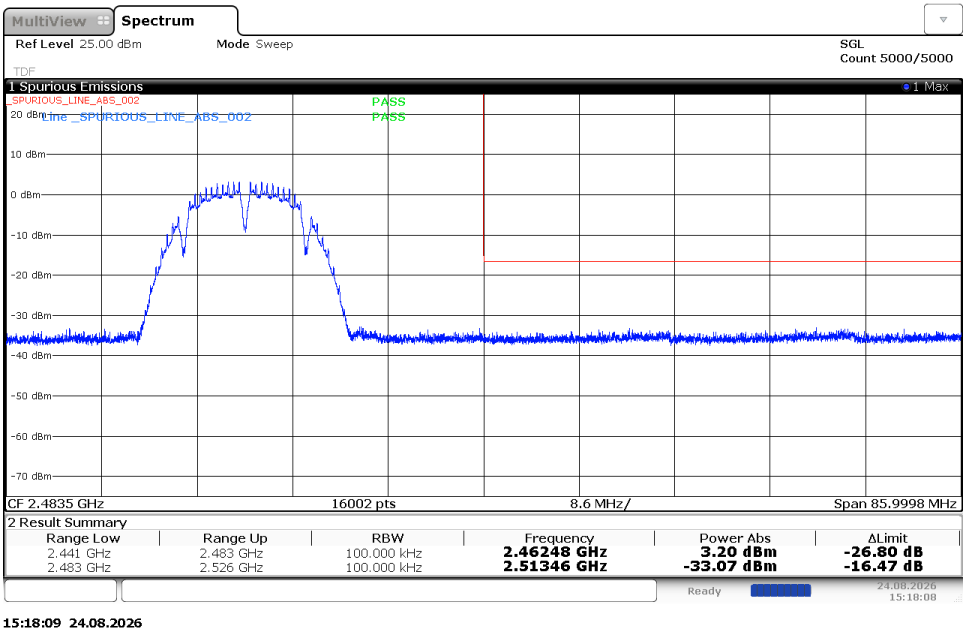


Figure 2.6.6-2 – Conducted Band Edge – Antenna 1 - 2462 MHz - 802.11b

Table 2.6.6-2 – Conducted Band-Edge Results - Antenna 1 - 2462 MHz – 802.11b

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2513.4645	-33.069	-16.600	-16.469	Pass

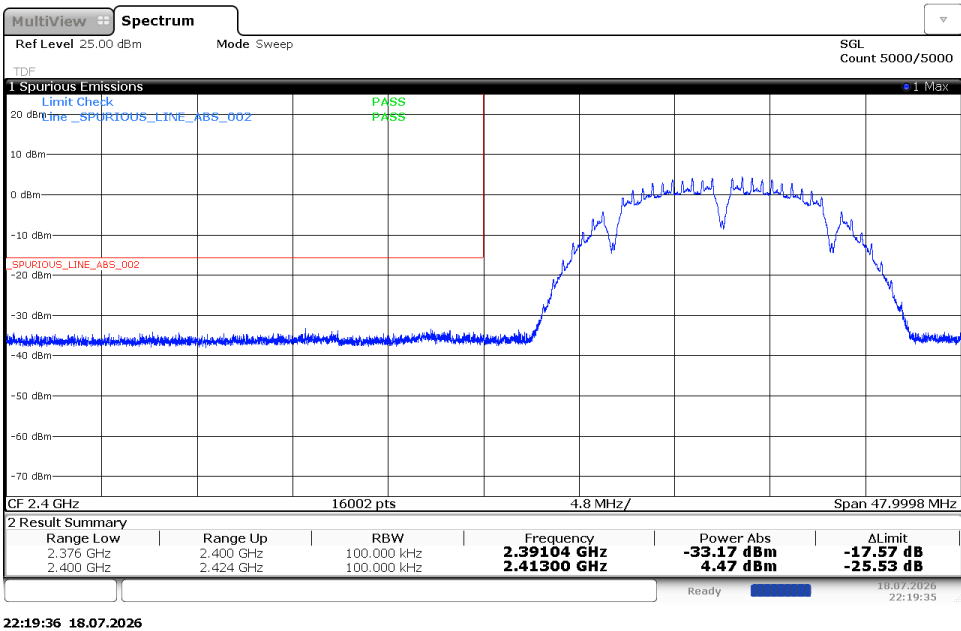


Figure 2.6.6-3 – Conducted Band Edge – Antenna 2 - 2412 MHz - 802.11b

Table 2.6.6-3 – Conducted Band-Edge Results - Antenna 2 - 2412 MHz – 802.11b

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2391.03866	-33.169	-15.600	-17.569	Pass

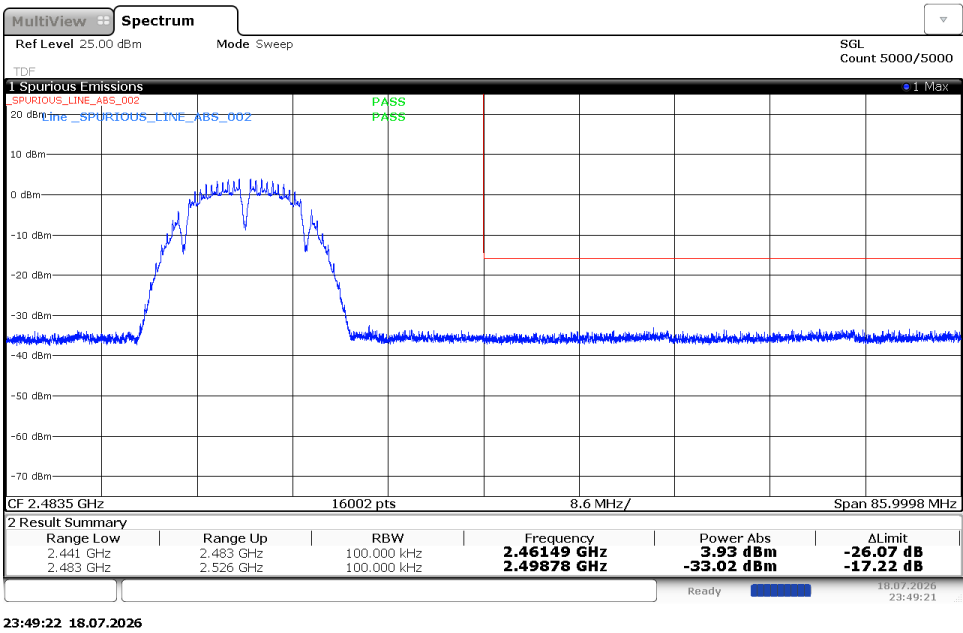


Figure 2.6.6-4 – Conducted Band Edge – Antenna 1 - 2462 MHz - 802.11b

Table 2.6.6-4 – Conducted Band-Edge Results - Antenna 2 - 2462 MHz – 802.11b

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2498.78187	-33.021	-15.800	-17.221	Pass

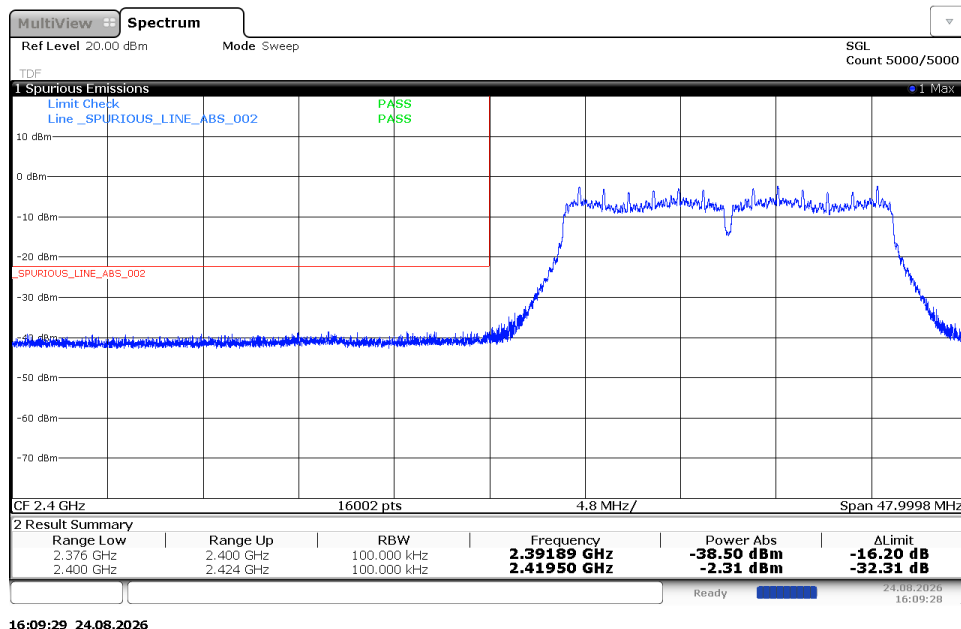


Figure 2.6.6-5 – Conducted Band Edge – Antenna 1 - 2412 MHz - 802.11g

Table 2.6.6-5 – Conducted Band-Edge Results - Antenna 1 - 2412 MHz - - 802.11g

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2391.89055	-38.498	-22.300	-16.198	Pass

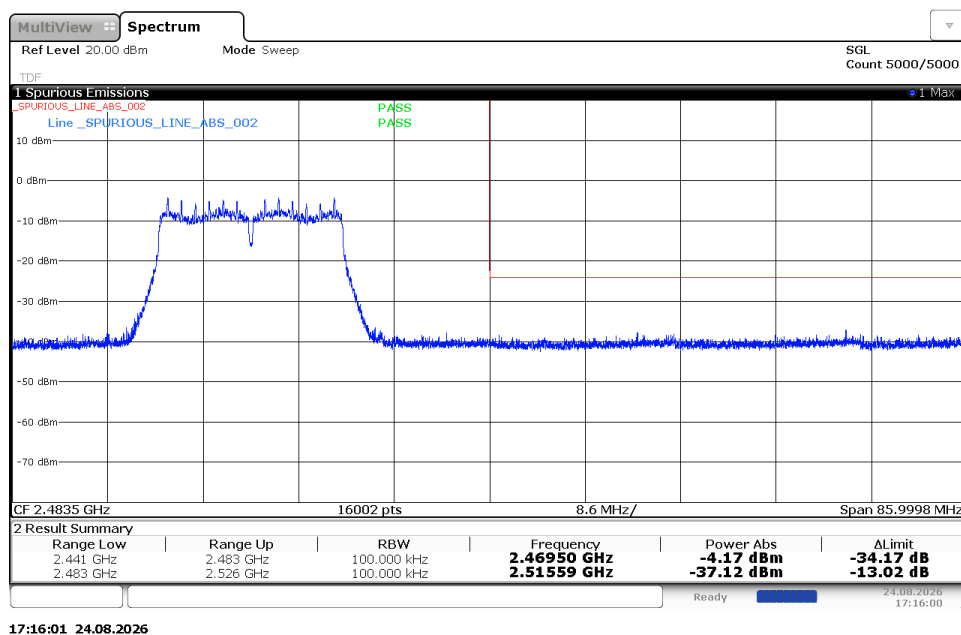


Figure 2.6.6-6 – Conducted Band Edge – Antenna 1 - 2462 MHz - 802.11g

Table 2.6.6-6 – Conducted Band-Edge Results - Antenna 1 - 2462 MHz - 802.11g

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2515.58735	-37.118	-24.100	-13.018	Pass

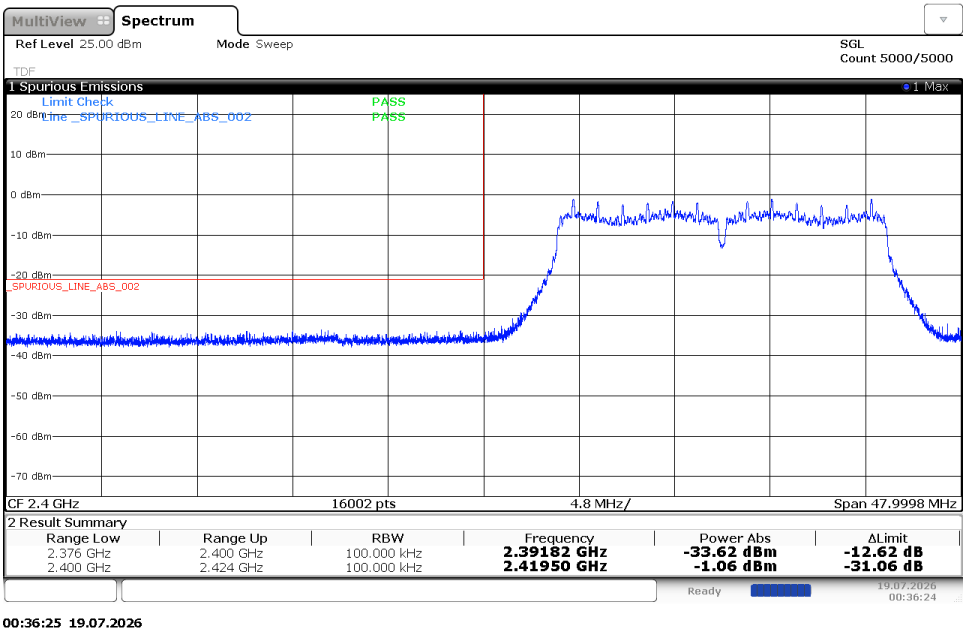


Figure 2.6.6-7 – Conducted Band Edge – Antenna 2 - 2412 MHz - 802.11g

Table 2.6.6-7 – Conducted Band-Edge Results - Antenna 2 - 2412 MHz - 802.11g

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2391.82156	-33.621	-21.00	-12.621	Pass

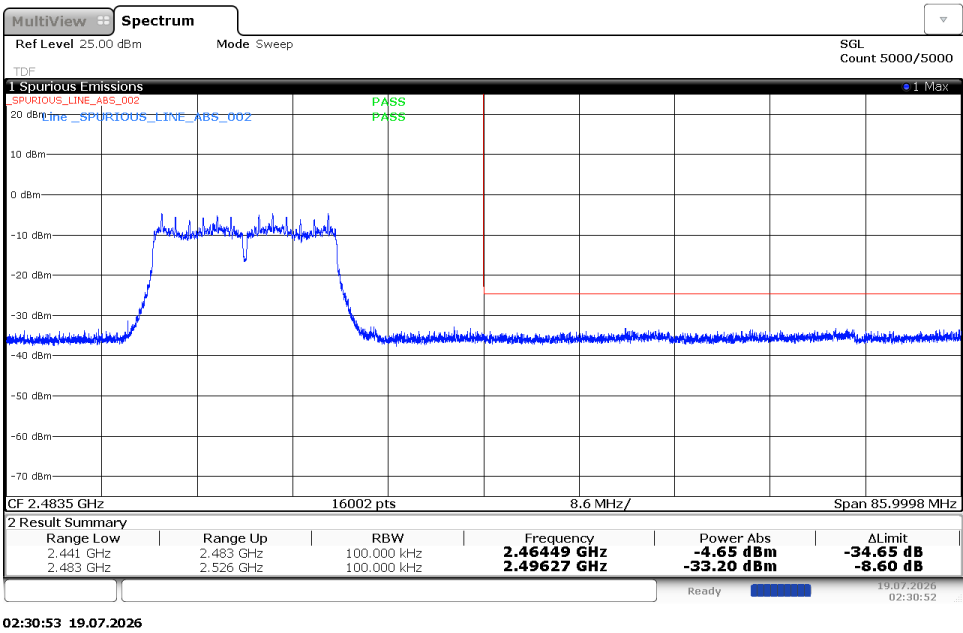


Figure 2.6.6-8 – Conducted Band Edge – Antenna 2- 2462 MHz - 802.11g

Table 2.6.6-8 – Conducted Band-Edge Results - Antenna 2 - 2462 MHz - 802.11g

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2496.27206	-33.196	-24.600	-8.596	Pass

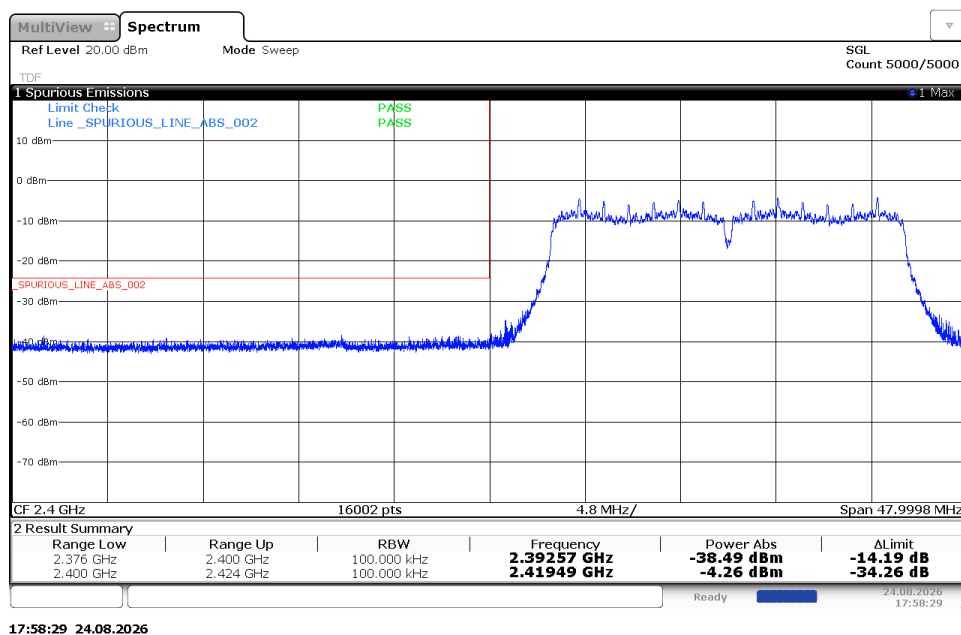


Figure 2.6.6-9 – Conducted Band Edge – Antenna 1- 2412 MHz - 802.11n 20 MHz

Table 2.6.6-9 – Conducted Band-Edge Results - Antenna 1 - 2412 MHz - 802.11n 20 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2392.56546	-38.486	-24.300	-14.186	Pass

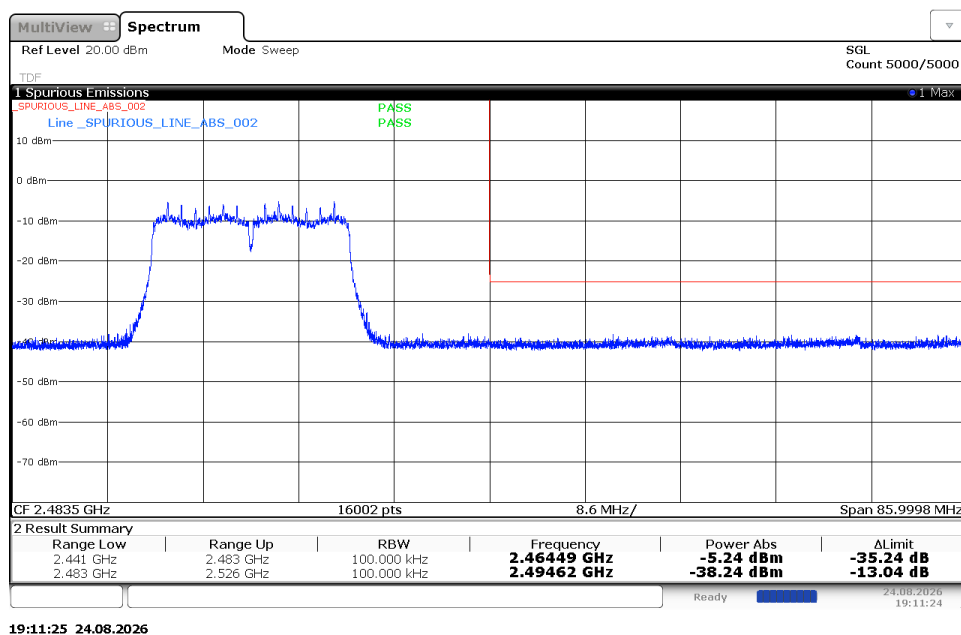


Figure 2.6.6-10 – Conducted Band Edge – Antenna 1- 2462 MHz - 802.11n 20 MHz

Table 2.6.6-10 – Conducted Band-Edge Results - Antenna 1 - 2462 MHz - 802.11n 20 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2494.62215	-38.242	-25.200	-13.042	Pass

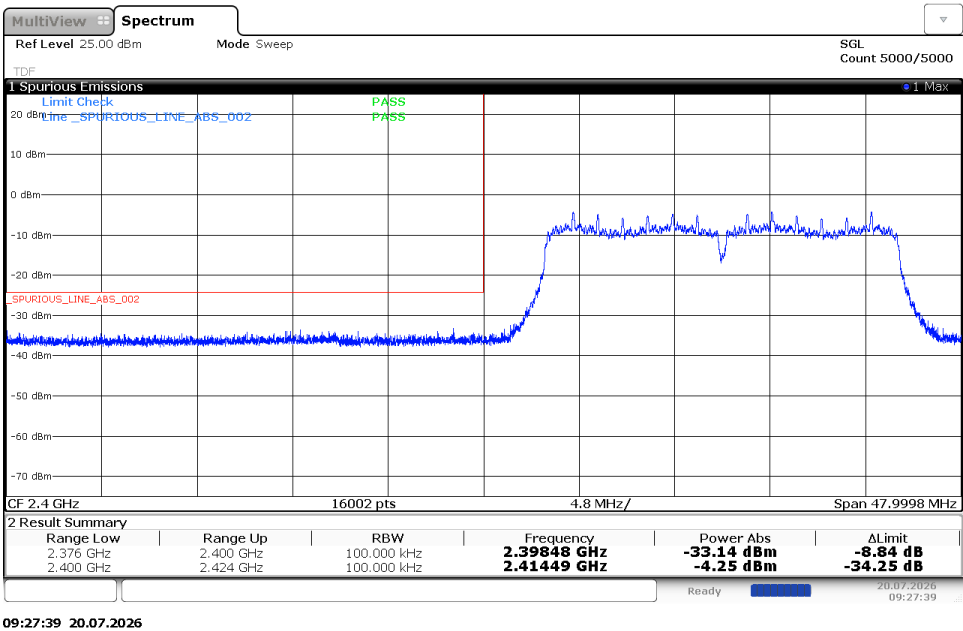


Figure 2.6.6-11 – Conducted Band Edge – Antenna 2 - 2412 MHz - 802.11n 20 MHz - 802.11n 20 MHz

Table 2.6.6-11 – Conducted Band-Edge Results - Antenna 2 - 2412 MHz - 802.11n 20 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2398.4777	-33.141	-24.300	-8.841	Pass

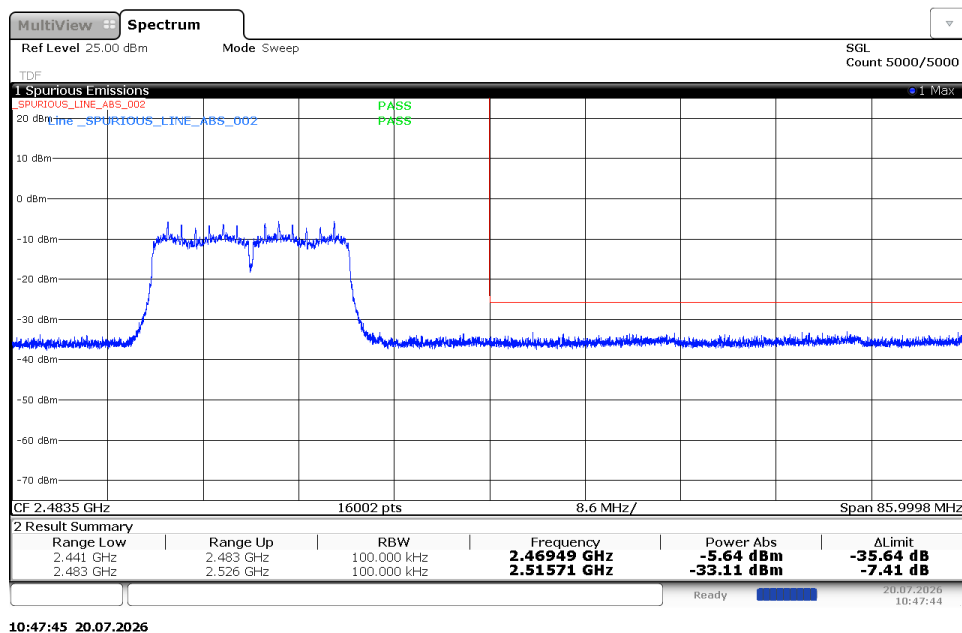


Figure 2.6.6-12 – Conducted Band Edge – Antenna 2- 2462 MHz - 802.11n 20 MHz

Table 2.6.6-12 – Conducted Band-Edge Results - Antenna 2 - 2462 MHz - 802.11n 20 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2515.71096	-33.106	-25.700	-7.406	Pass

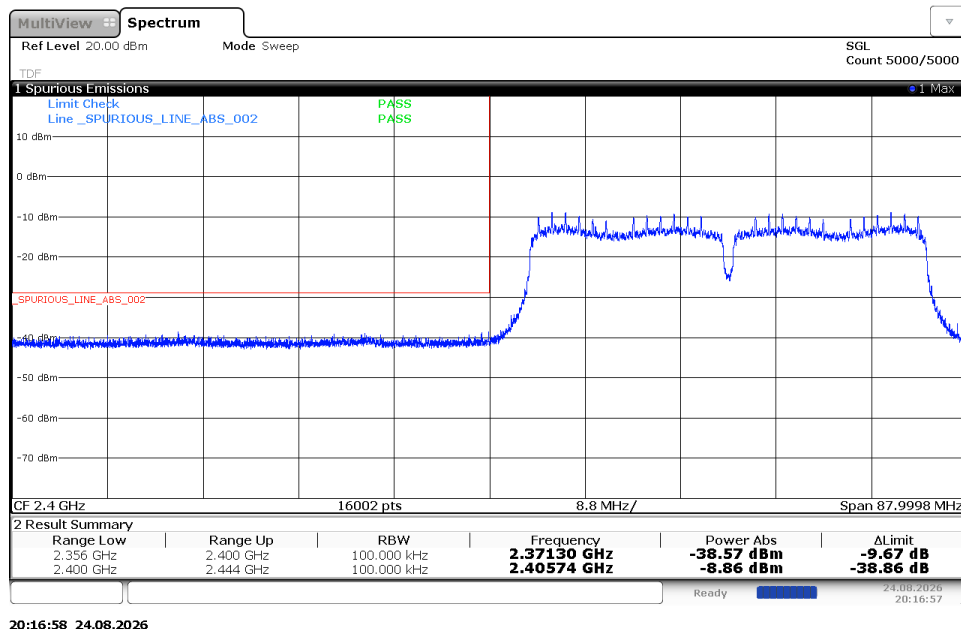


Figure 2.6.6-13 – Conducted Band Edge – Antenna 1- 2422 MHz - 802.11n 40 MHz

Table 2.6.6-13 – Conducted Band-Edge Results - Antenna 1 - 2422 MHz - 802.11n 40 MHz 2

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2371.3019	-38.574	-28.900	-9.674	Pass

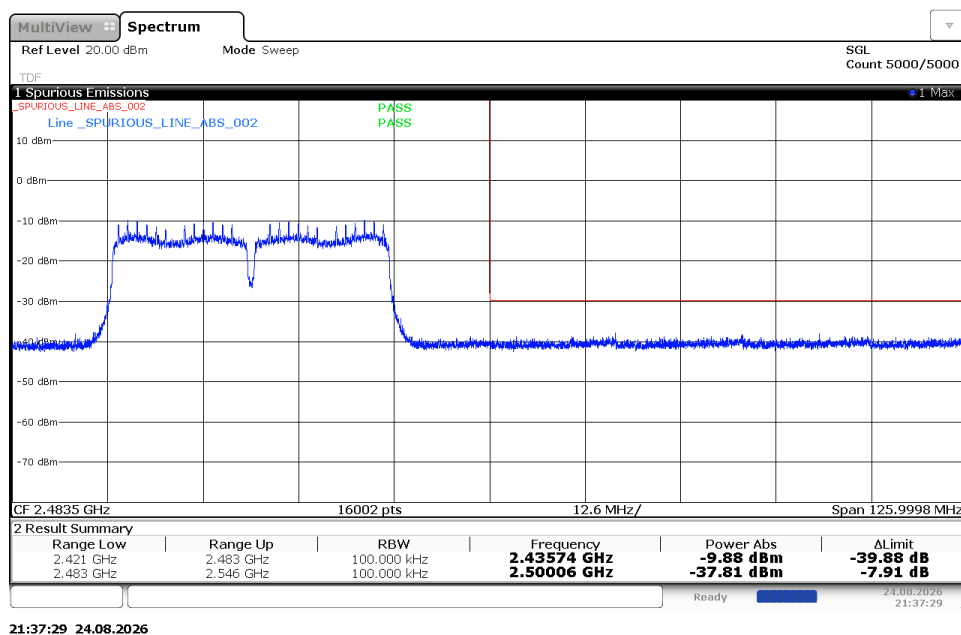


Figure 2.6.6-14 – Conducted Band Edge – Antenna 1- 2452 MHz - 802.11n 40 MHz

Table 2.6.6-14 – Conducted Band-Edge Results - Antenna 1 - 2452 MHz - 802.11n 40 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2500.06297	-37.809	-29.900	-7.909	Pass

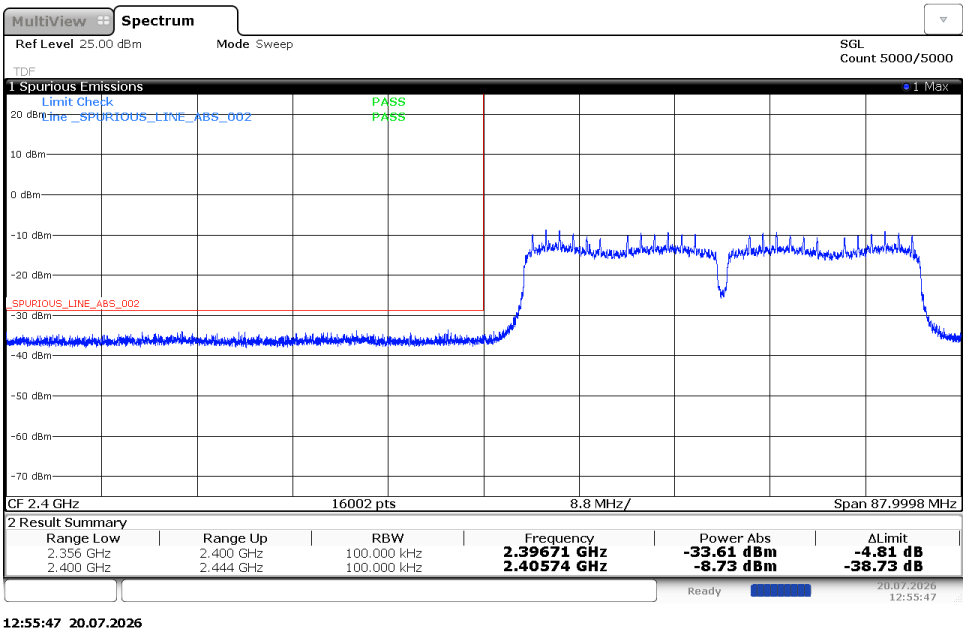


Figure 2.6.6-15 – Conducted Band Edge – Antenna 2- 2422 MHz - 802.11n 40 MHz

Table 2.6.6-15 – Conducted Band-Edge Results - Antenna 2 - 2422 MHz - 802.11n 40 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2396.71417	-33.611	-28.800	-4.811	Pass

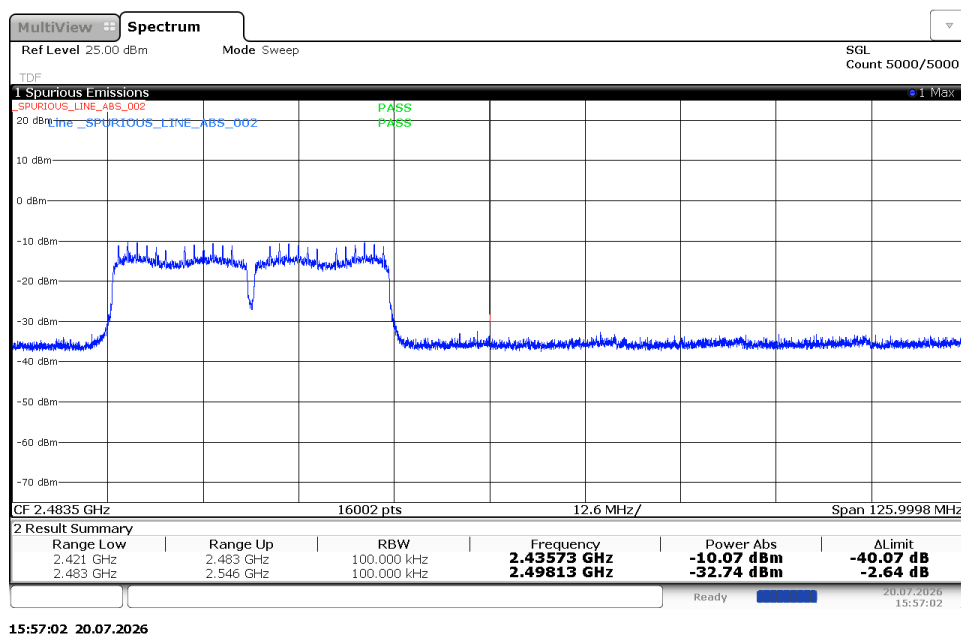


Figure 2.6.6-16 – Conducted Band Edge – Antenna 2- 2452 MHz - 802.11n 40 MHz

Table 2.6.6-16 – Conducted Band-Edge Results - Antenna 2 - 2452 MHz - 802.11n 40 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2498.13384	-32.741	-30.100	-2.641	Pass

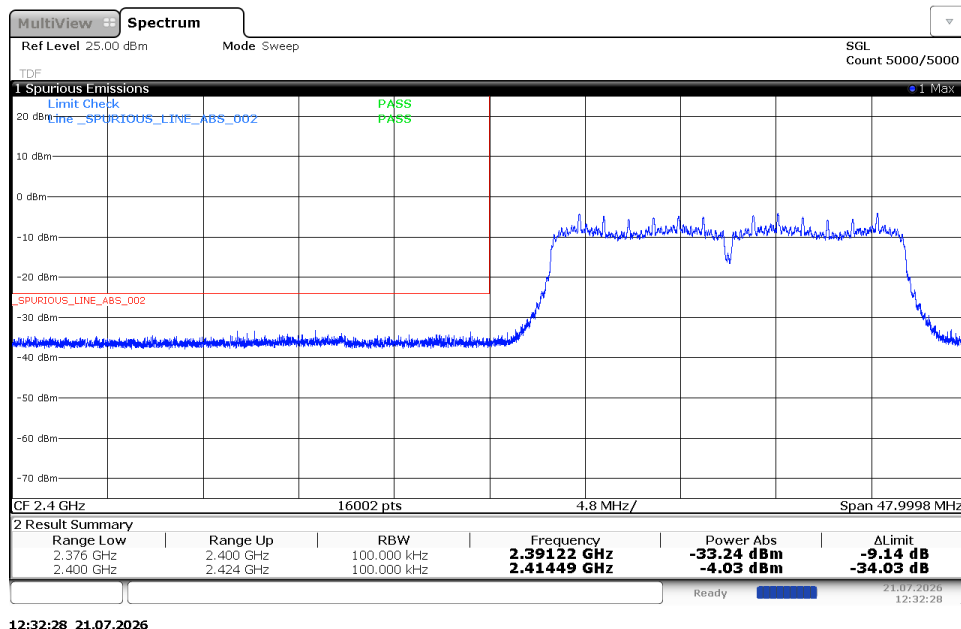


Figure 2.6.6-17 – Conducted Band Edge – Antenna 2- 2412 MHz - 802.11n 20 MHz - MIMO

Table 2.6.6-17 – Conducted Band-Edge Results – MIMO - Antenna 1 - 2412 MHz - 802.11n 20 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2391.22463	-33.243	-24.100	-9.143	Pass

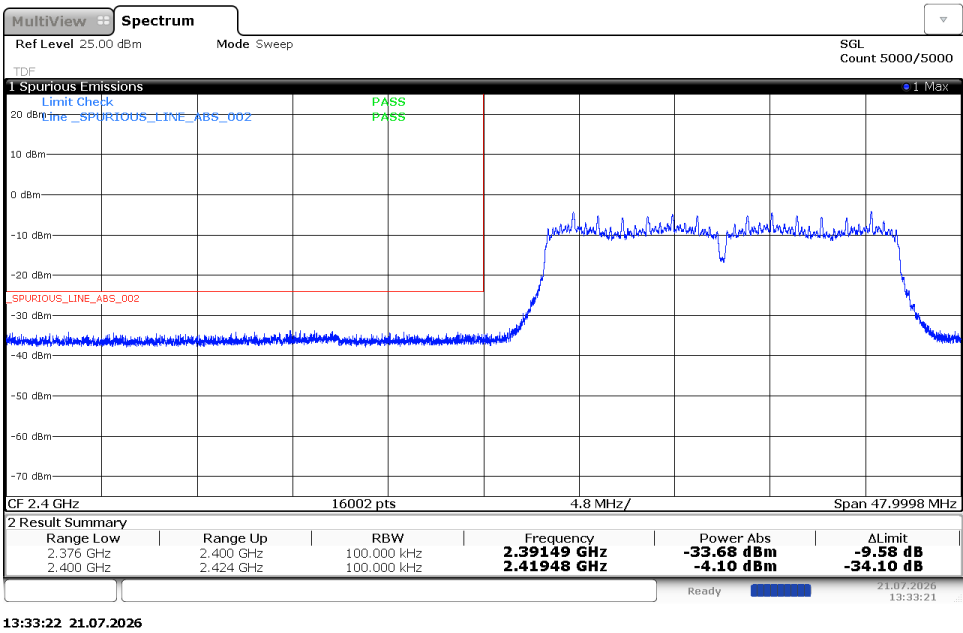


Figure 2.6.6-18 – Conducted Band Edge – Antenna 2- 2412 MHz - 802.11n 20 MHz - MIMO

Table 2.6.6-18 – Conducted Band-Edge Results – MIMO - Antenna 2 - 2412 MHz - 802.11n 20 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2391.4946	-33.676	-24.100	-9.576	Pass

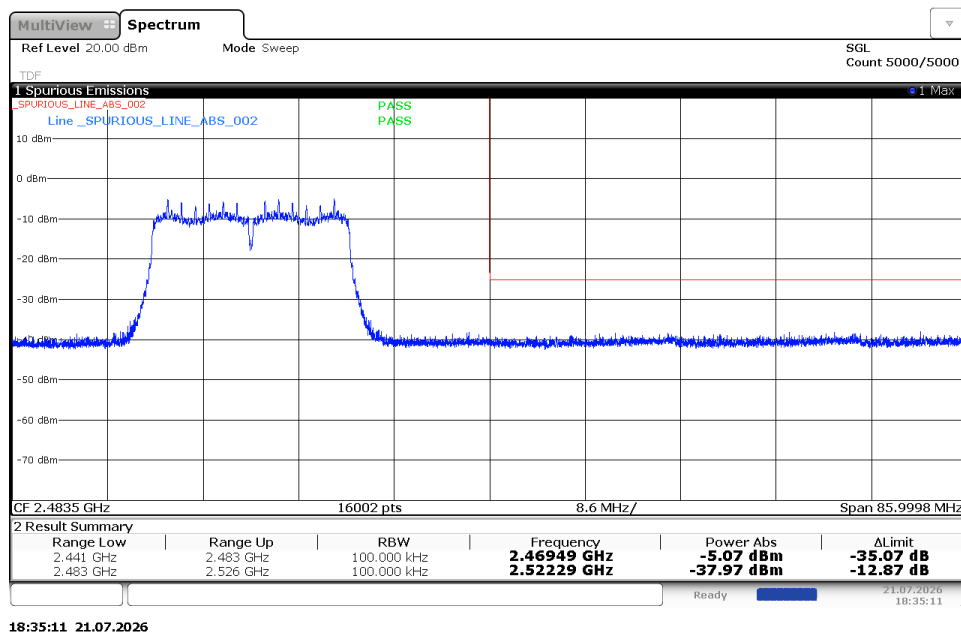


Figure 2.6.6-19 – Conducted Band Edge – Antenna 1- 2462 MHz - 802.11n 20 MHz - MIMO

Table 2.6.6-19 – Conducted Band-Edge Results – MIMO - Antenna 1 - 2462 MHz - 802.11n 20 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2522.2945	-37.966	-25.100	-12.866	Pass

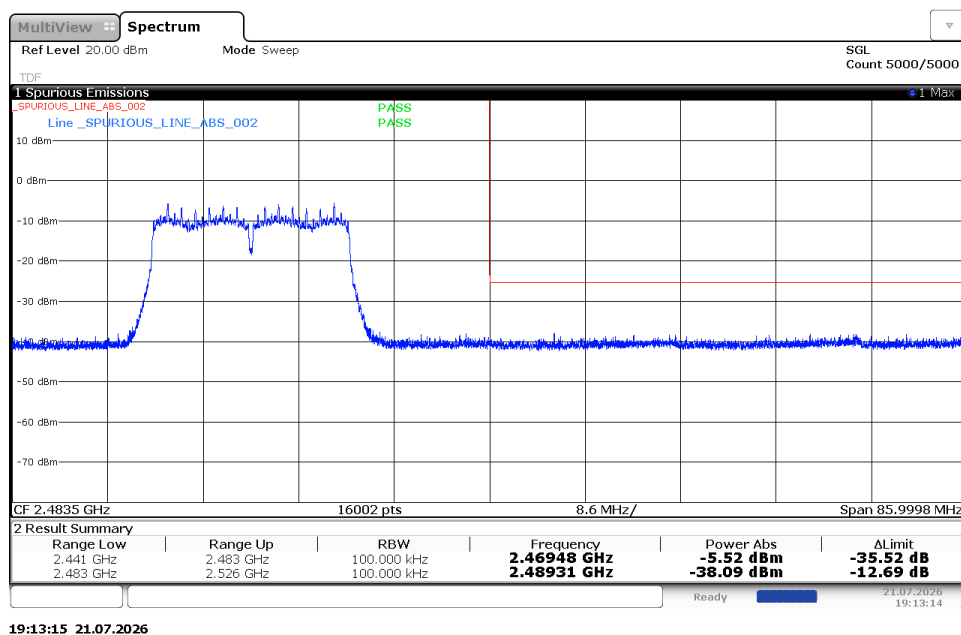


Figure 2.6.6-20 – Conducted Band Edge – Antenna 2- 2462 MHz - 802.11n 20 MHz - MIMO

Table 2.6.6-20 – Conducted Band-Edge Results – MIMO - Antenna 2 - 2462 MHz - 802.11n 20 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2489.31232	-38.091	-25.400	-12.691	Pass

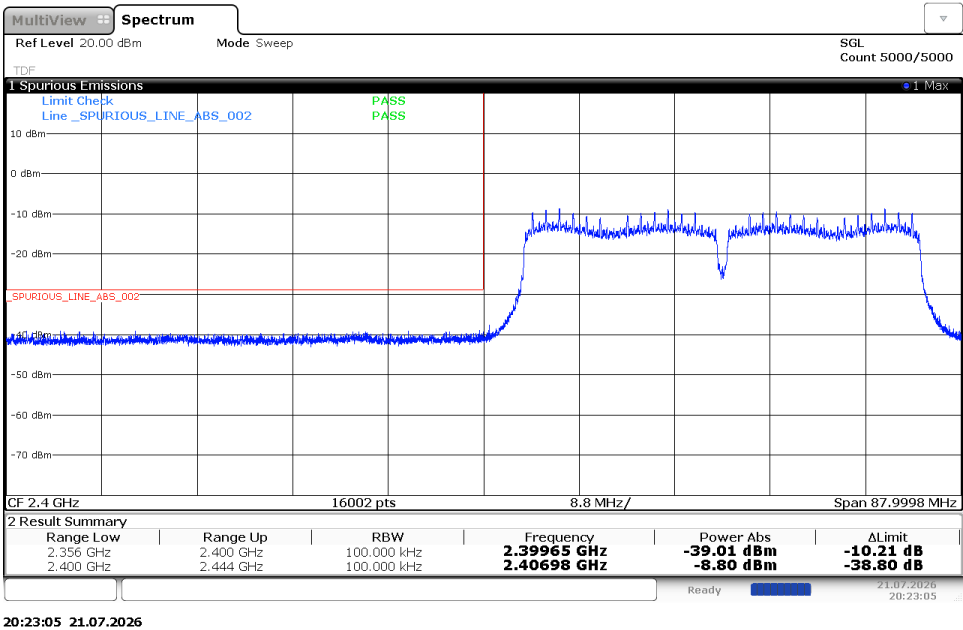


Figure 2.6.6-21 – Conducted Band Edge – Antenna 2- 2422 MHz - 802.11n 40 MHz - MIMO

Table 2.6.6-21 – Conducted Band-Edge Results - MIMO Antenna 2- 2422 MHz - 802.11n 40 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.6453	-39.007	-28.800	-10.207	Pass

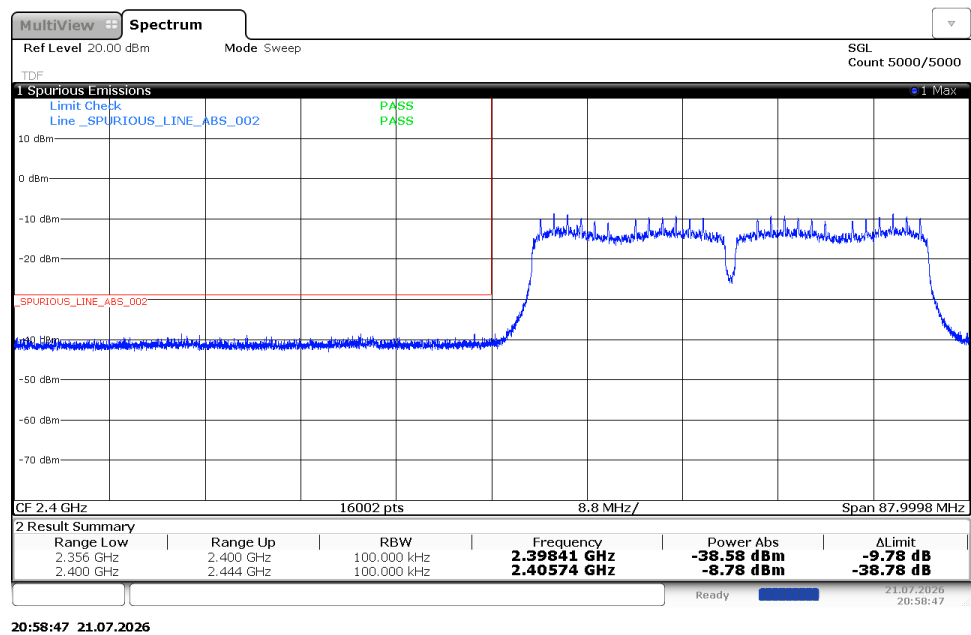


Figure 2.6.6-22 – Conducted Band Edge – Antenna 1- 2422 MHz - 802.11n 40 MHz - MIMO

Table 2.6.6-22 – Conducted Band-Edge Results - MIMO Antenna 1- 2422 MHz - 802.11n 40 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2398.41345	-38.578	-28.800	-9.778	Pass

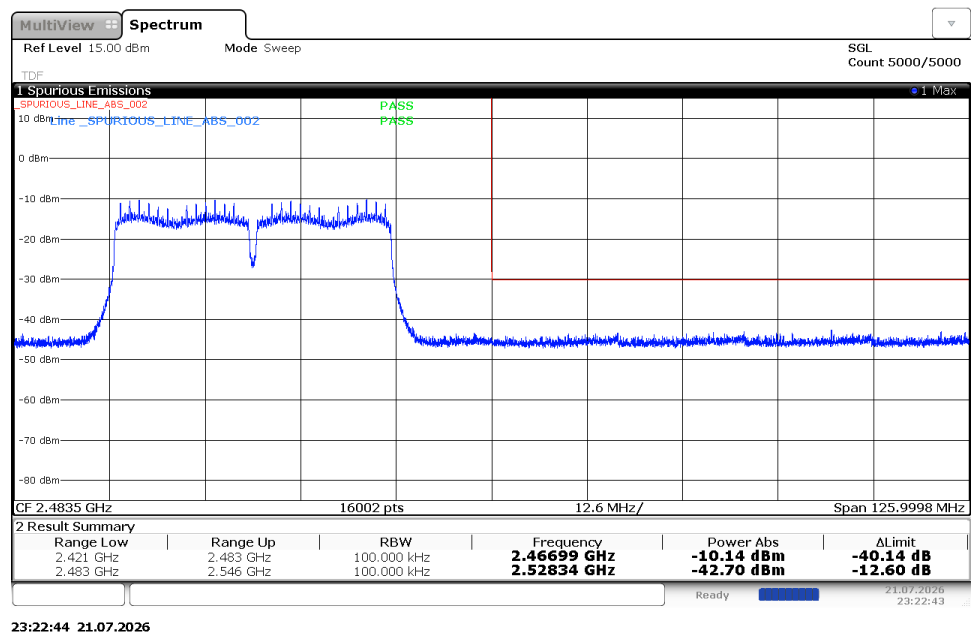


Figure 2.6.6-23 – Conducted Band Edge – Antenna 2- 2452 MHz - 802.11n 40 MHz - MIMO

Table 2.6.6-23 – Conducted Band-Edge Results - MIMO Antenna 2- 2452 MHz - 802.11n 40 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2528.33851	-42.697	-30.100	-12.597	Pass

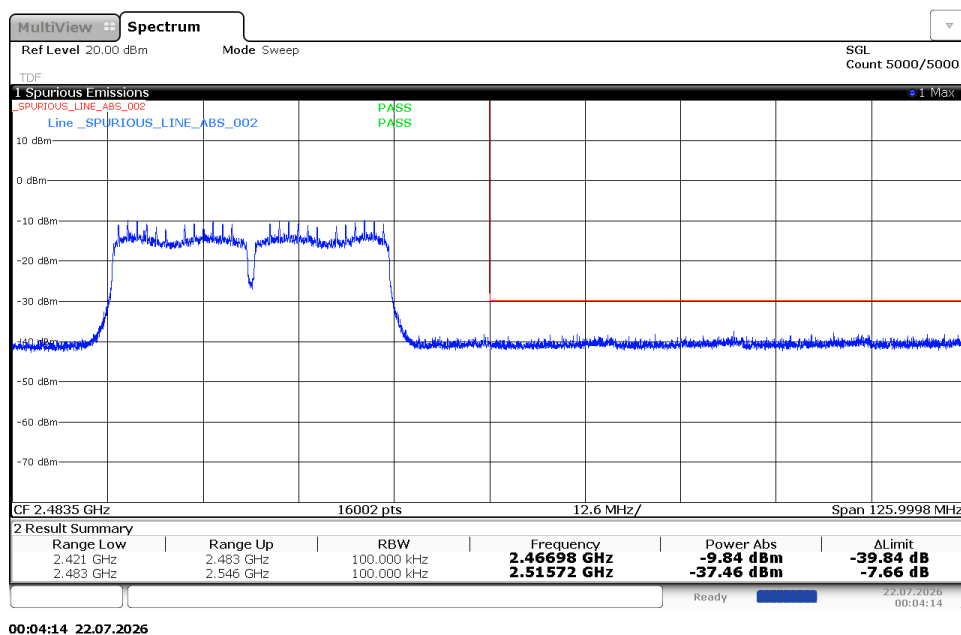


Figure 2.6.6-24 – Conducted Band Edge – Antenna 1- 2452 MHz - 802.11n 40 MHz - MIMO

Table 2.6.6-24 – Conducted Band-Edge Results - MIMO Antenna 1- 2452 MHz - 802.11n 40 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2515.72436	-37.464	-29.800	-7.664	Pass

2.6.7 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.



2.7 RF Conducted Spurious Emissions

2.7.1 Specification Reference

FCC: Section 15.247(d)

2.7.2 Equipment Under Test and Modification State

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

2.7.3 Date of Test

7/16/2026 to 8/24/2026

2.7.4 Test Method

The RF Conducted Spurious Emissions were measured in accordance with Subclause 11.11 of ANSI C63.10. The RF output port of the equipment under test was directly connected to the input of the spectrum analyzer. The EUT was investigated for conducted spurious emissions from 30 MHz to 25 GHz, 10 times the highest fundamental frequency. Measurements were made at the low, center and high channels of the EUT. For each measurement, the spectrum analyzer's RBW was set to 100 kHz and the VBW was set to 300 kHz. The peak Max Hold function of the analyzer was utilized. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.7.5 Environmental Conditions

Ambient Temperature	22.0 to 23.0 °C
Relative Humidity	40.0 to 41.0 %
Atmospheric Pressure	983.0 to 985.0 mBar

2.7.6 Test Results

AC Powered, Operating

Limit Clause FCC Section 15.247(d)

In any 100 kHz bandwidth outside of the frequency band the radio frequency power shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

Test Summary:

All the emissions at the band-edge were attenuated by at least 20 dB below the fundamental.

Test Result: Pass

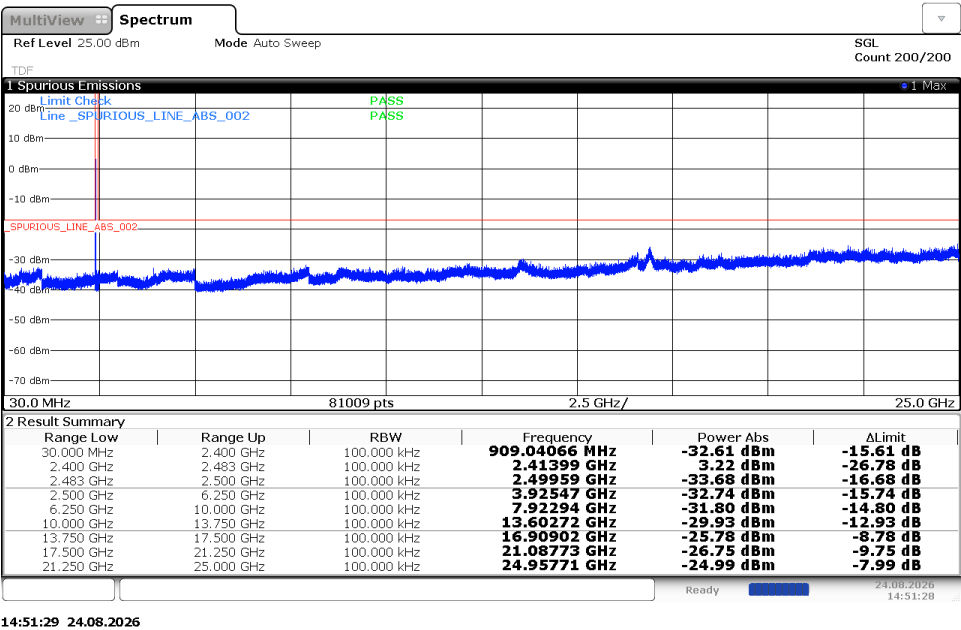


Figure 2.7.6-1 – Conducted Spurious Emission – Antenna 1- 2412 MHz - 802.11b

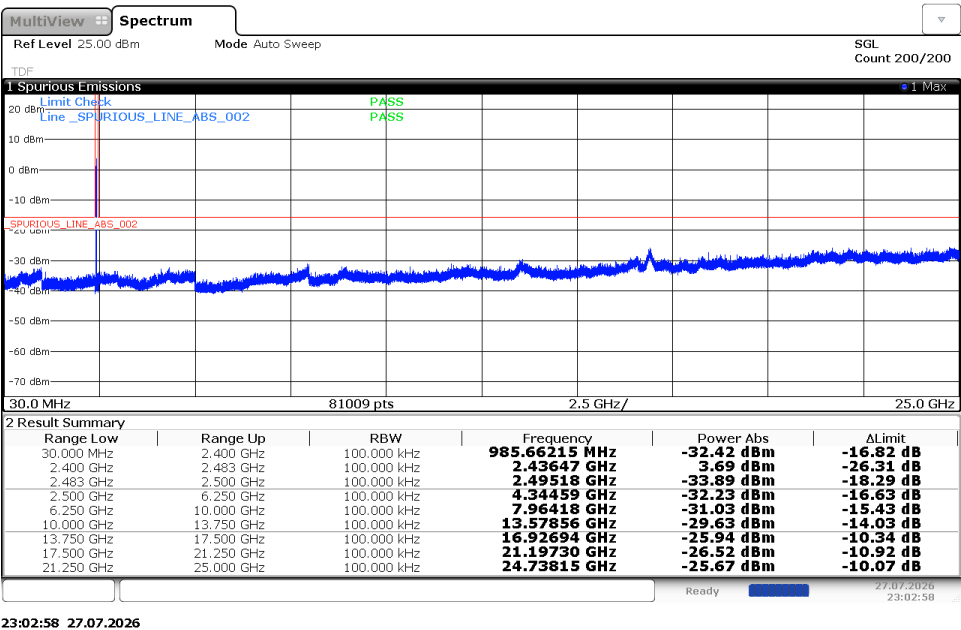


Figure 2.7.6-2 – Conducted Spurious Emission – Antenna 1- 2437 MHz - 802.11b

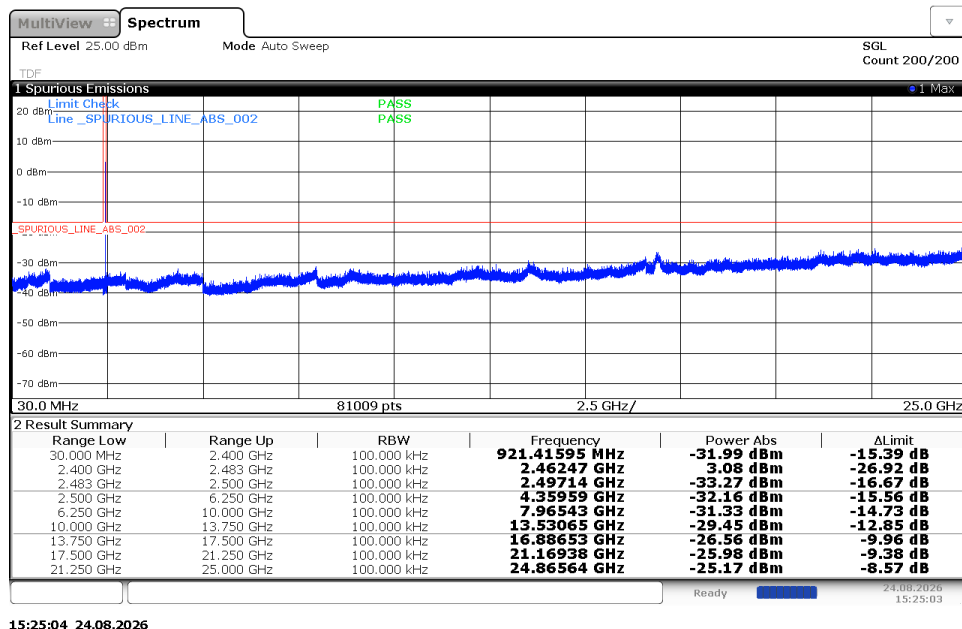


Figure 2.7.6-3 – Conducted Spurious Emission – Antenna 1- 2462 MHz - 802.11b

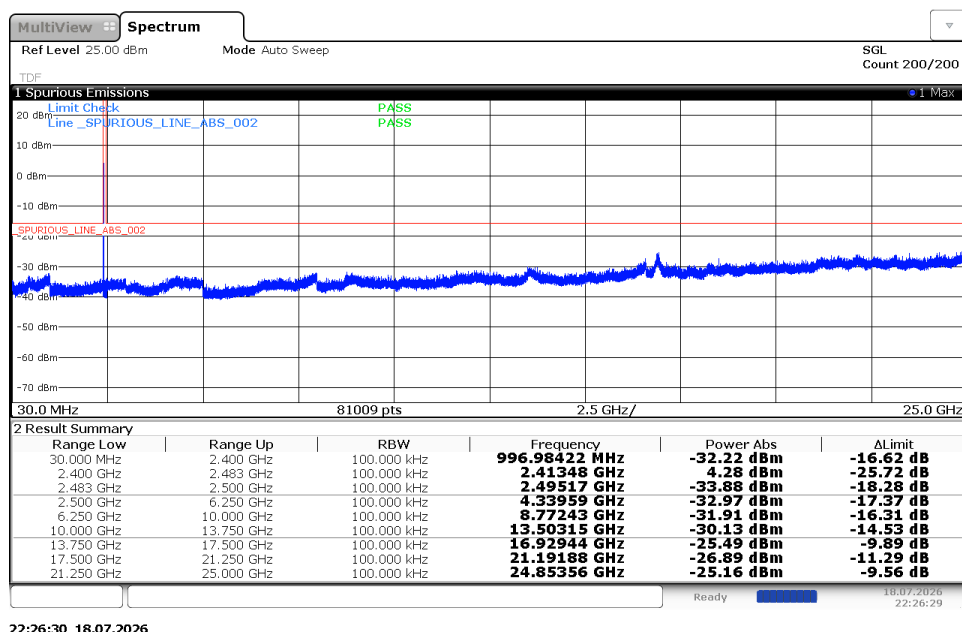
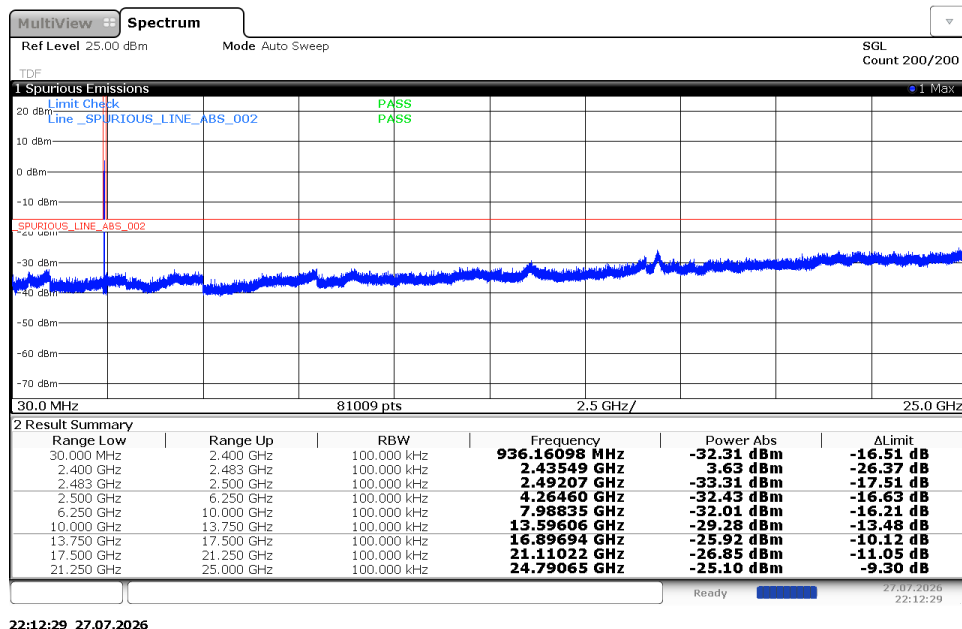
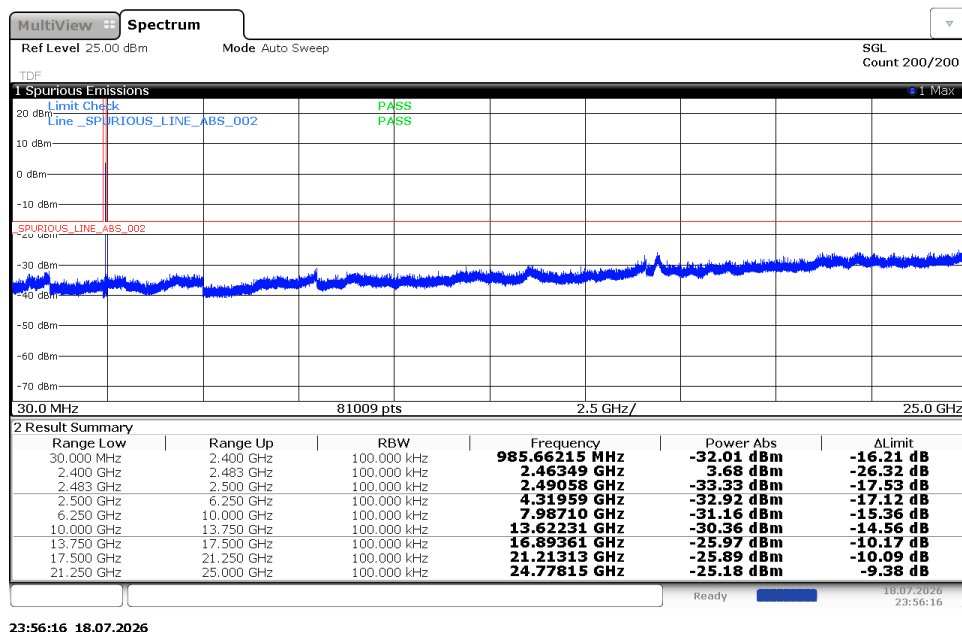


Figure 2.7.6-4 – Conducted Spurious Emission – Antenna 2- 2412 MHz - 802.11b



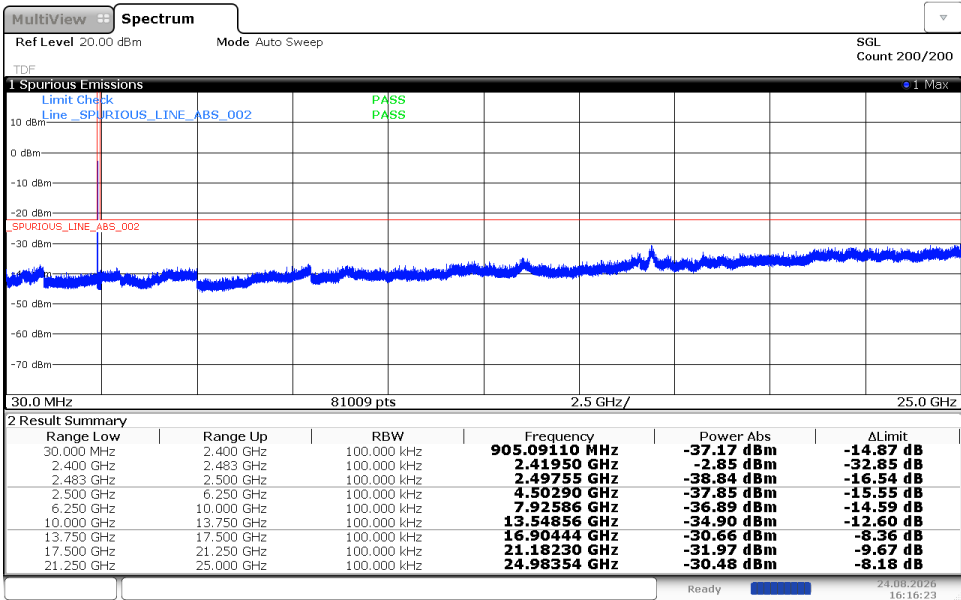
22:12:29 27.07.2026

Figure 2.7.6-5 – Conducted Spurious Emission – Antenna 2- 2437 MHz - 802.11b



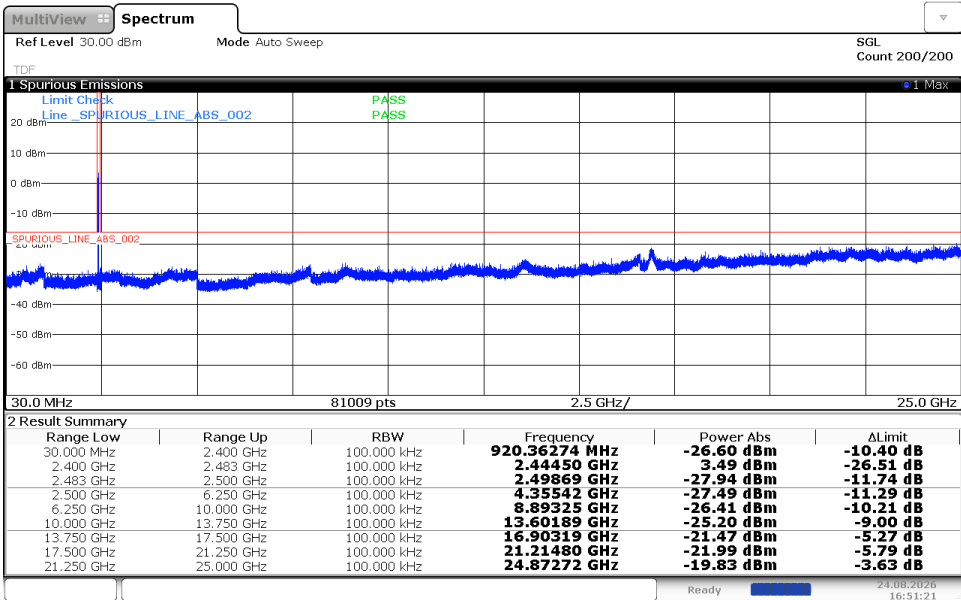
23:56:16 18.07.2026

Figure 2.7.6-6 – Conducted Spurious Emission – Antenna 2 - 2462 MHz - 802.11b



16:16:23 24.08.2026

Figure 2.7.6-7 – Conducted Spurious Emissions Results - Antenna 1 - 2412 MHz - 802.11g



16:51:21 24.08.2026

Figure 2.7.6-8 – Conducted Spurious Emissions Results - Antenna 1 - 2437 MHz - 802.11g

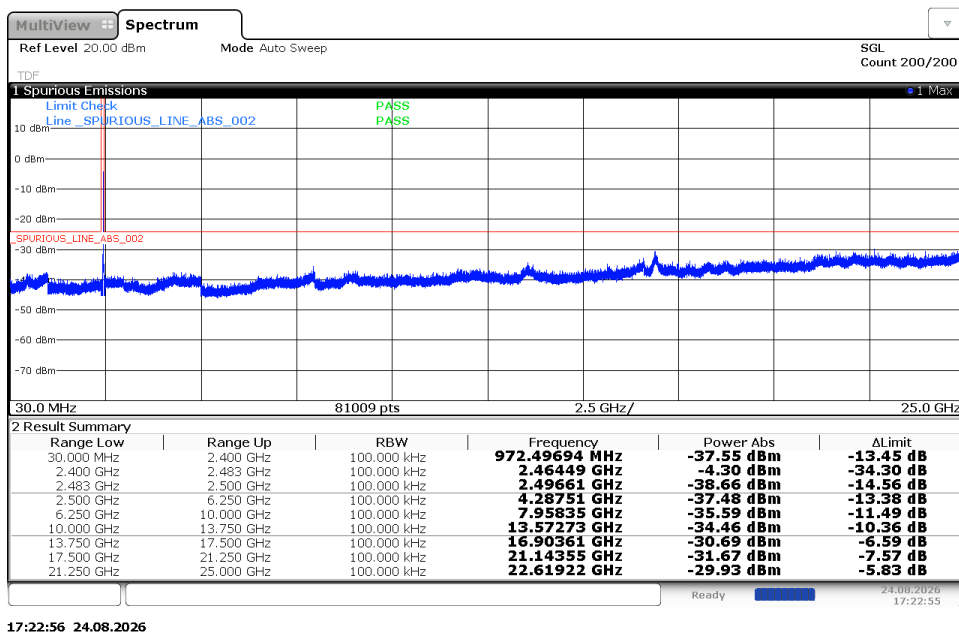


Figure 2.7.6-9 – Conducted Spurious Emissions Results - Antenna 1 - 2462 MHz - 802.11g

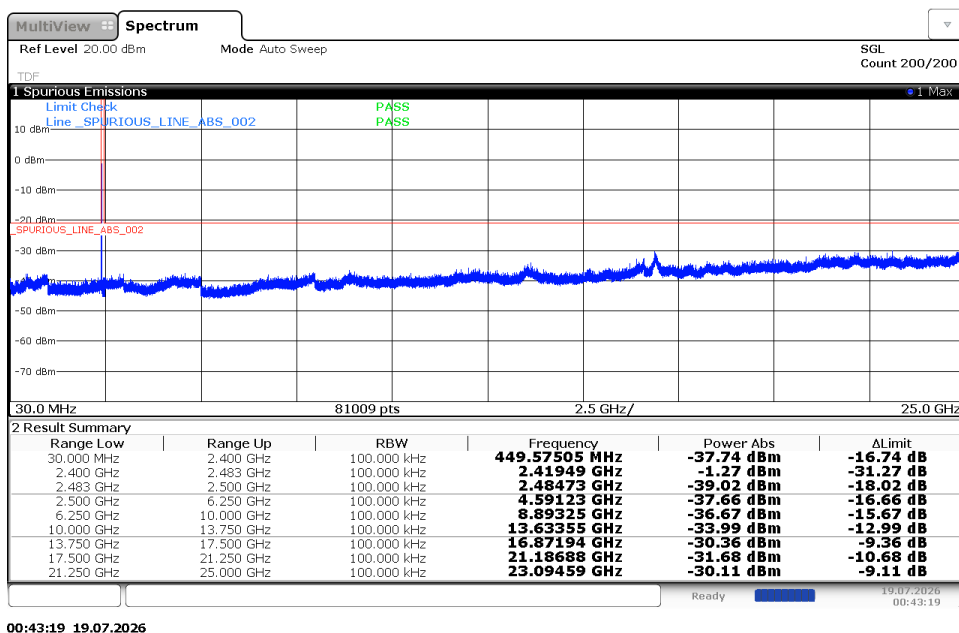


Figure 2.7.6-10 – Conducted Spurious Emissions Results - Antenna 2 - 2412 MHz - 802.11g

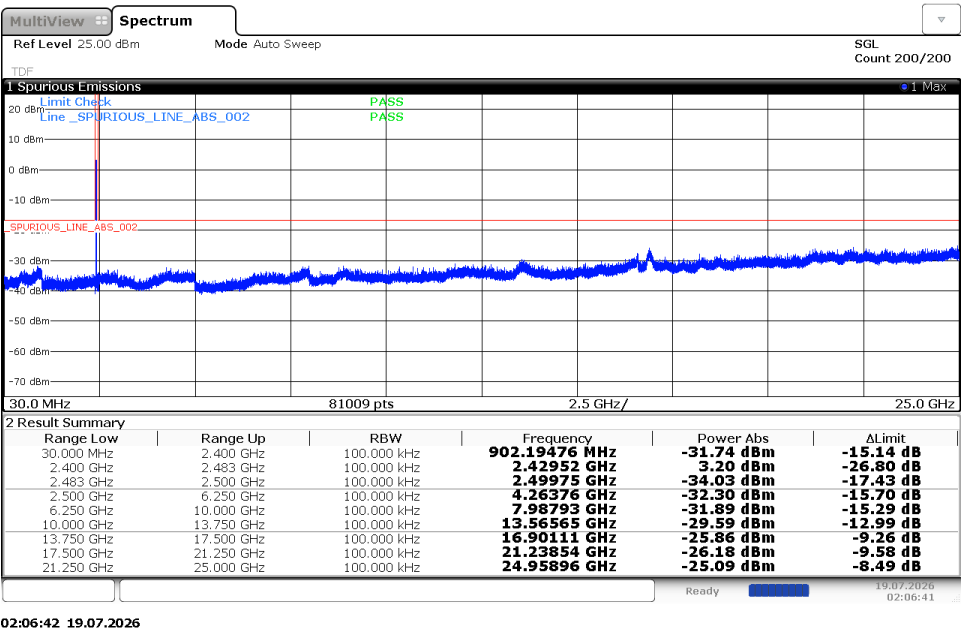


Figure 2.7.6-11 – Conducted Spurious Emissions Results - Antenna 2 - 2437 MHz - 802.11g

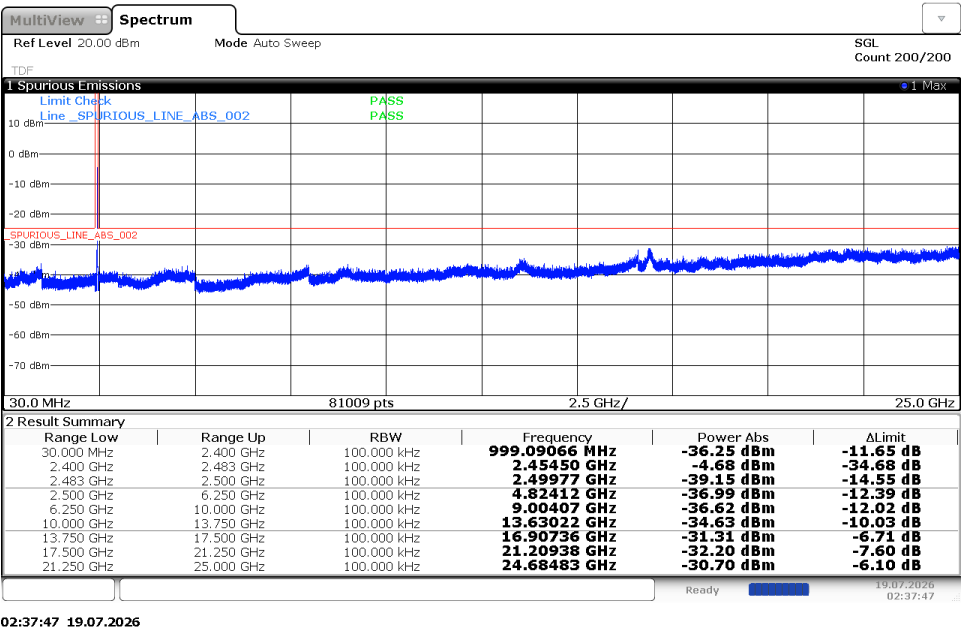


Figure 2.7.6-12 – Conducted Spurious Emissions Results - Antenna 2 - 2462 MHz - 802.11g

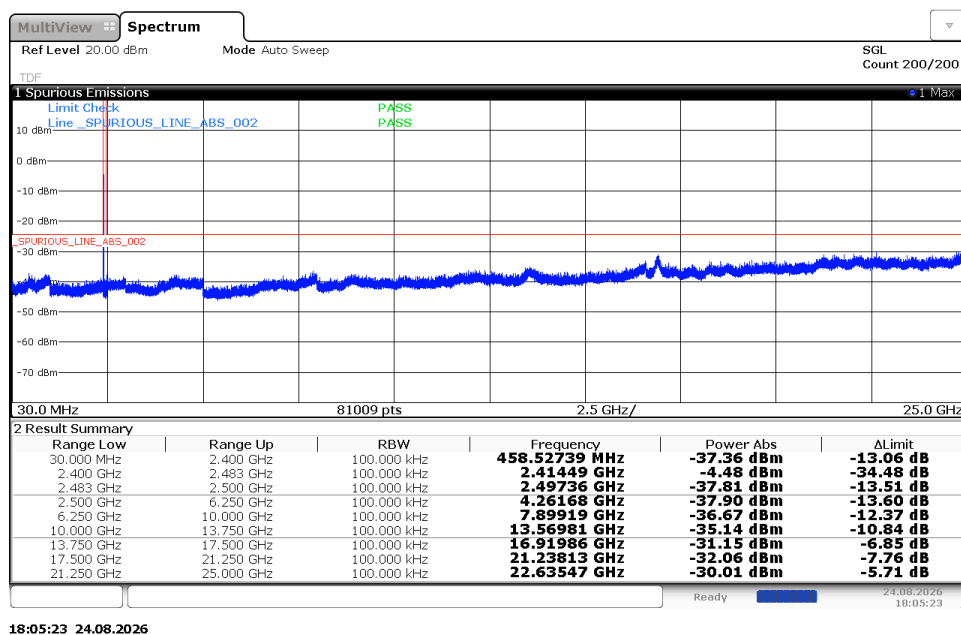


Figure 2.7.6-13 – Conducted Spurious Emissions Results - Antenna 1 - 2412 MHz - 802.11n20

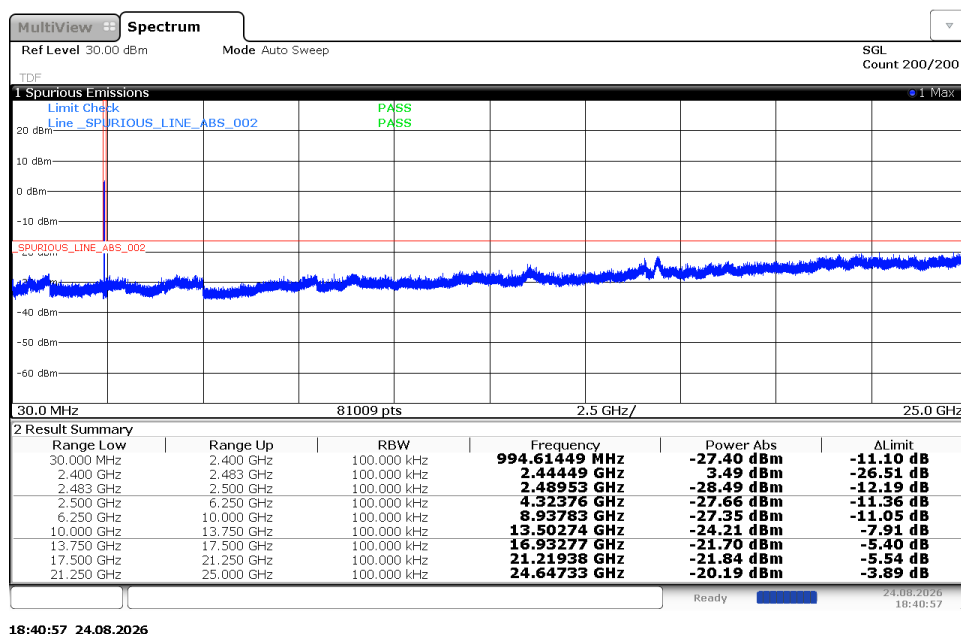


Figure 2.7.6-14 – Conducted Spurious Emissions Results - Antenna 1 - 2437 MHz - 802.11n20

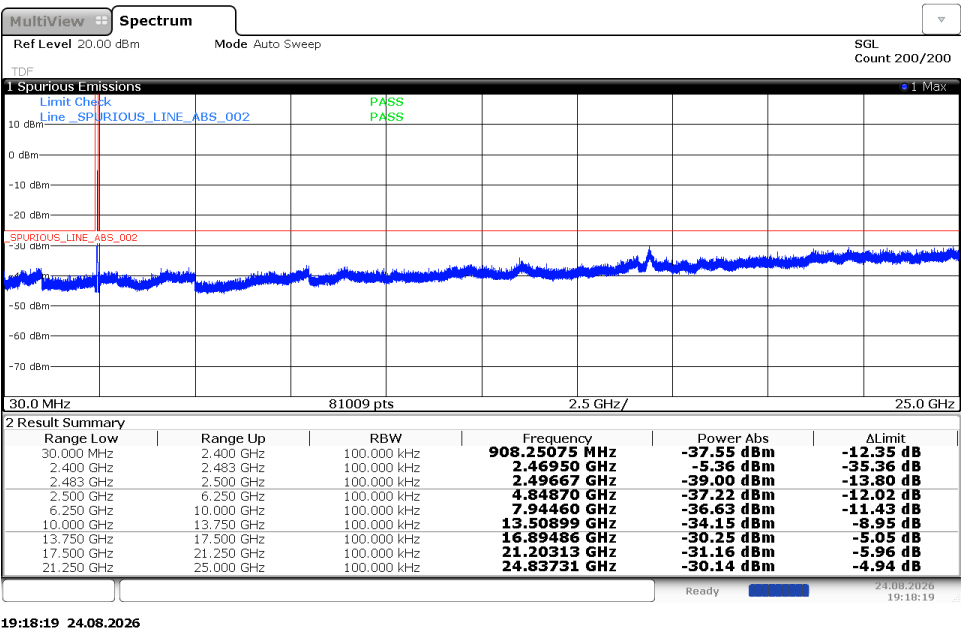


Figure 2.7.6-15 – Conducted Spurious Emissions Results - Antenna 1 - 2462 MHz - 802.11n20

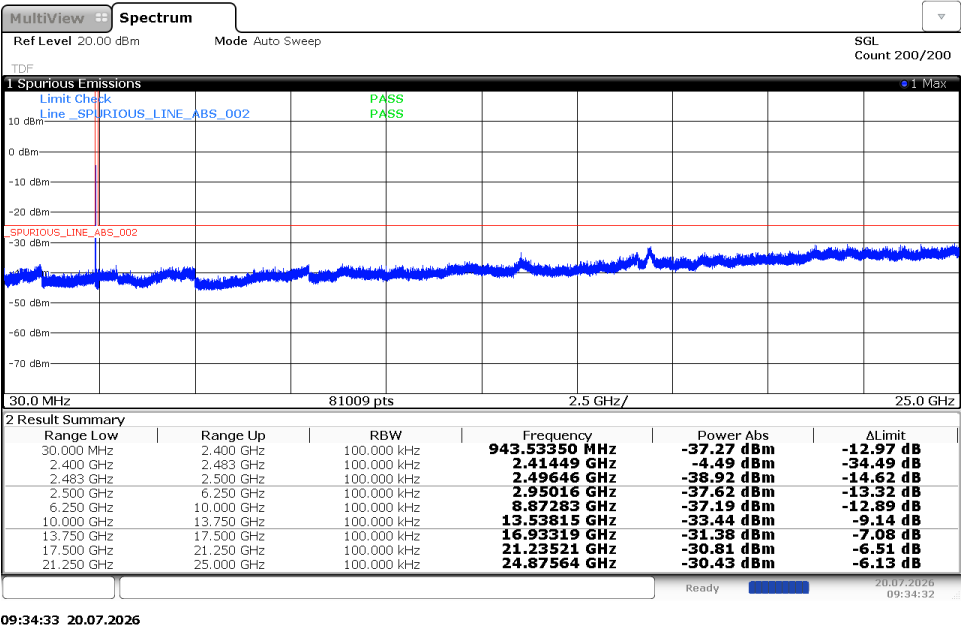


Figure 2.7.6-16 – Conducted Spurious Emissions Results - Antenna 2 - 2412 MHz - 802.11n20

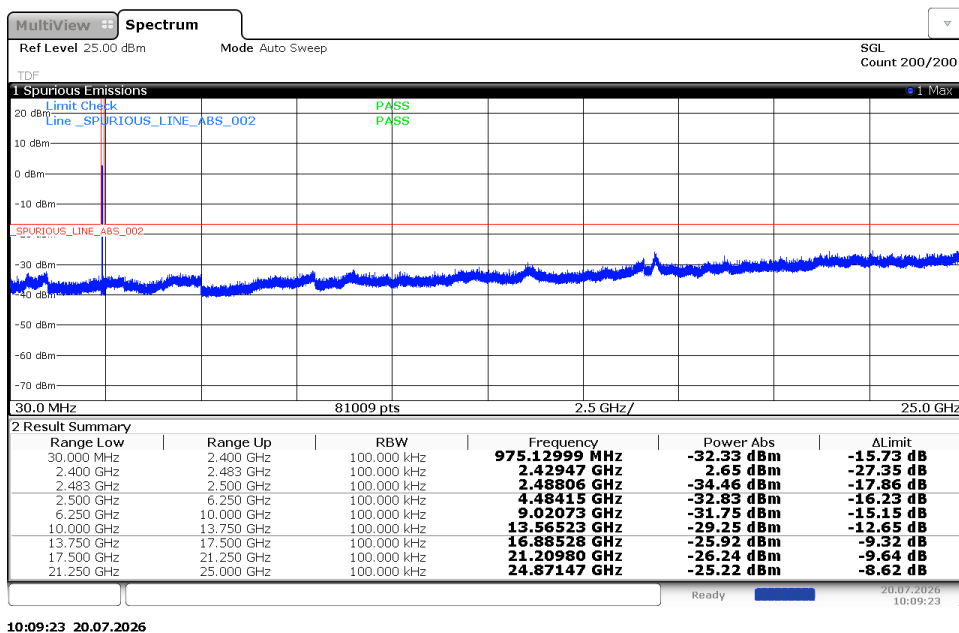


Figure 2.7.6-17 – Conducted Spurious Emissions Results - Antenna 2 - 2437 MHz - 802.11n20

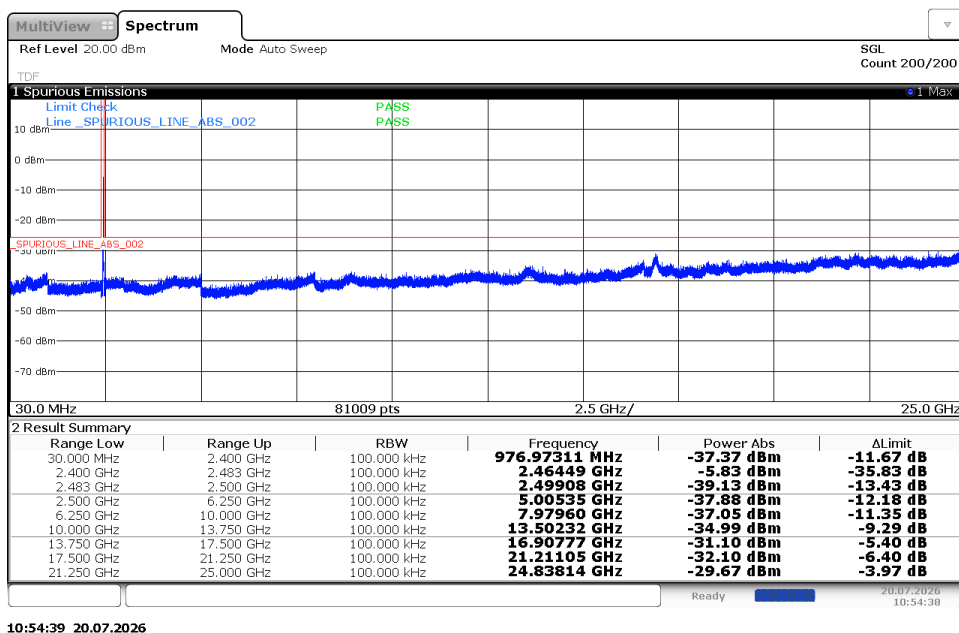


Figure 2.7.6-18 – Conducted Spurious Emissions Results - Antenna 2 - 2462 MHz - 802.11n20

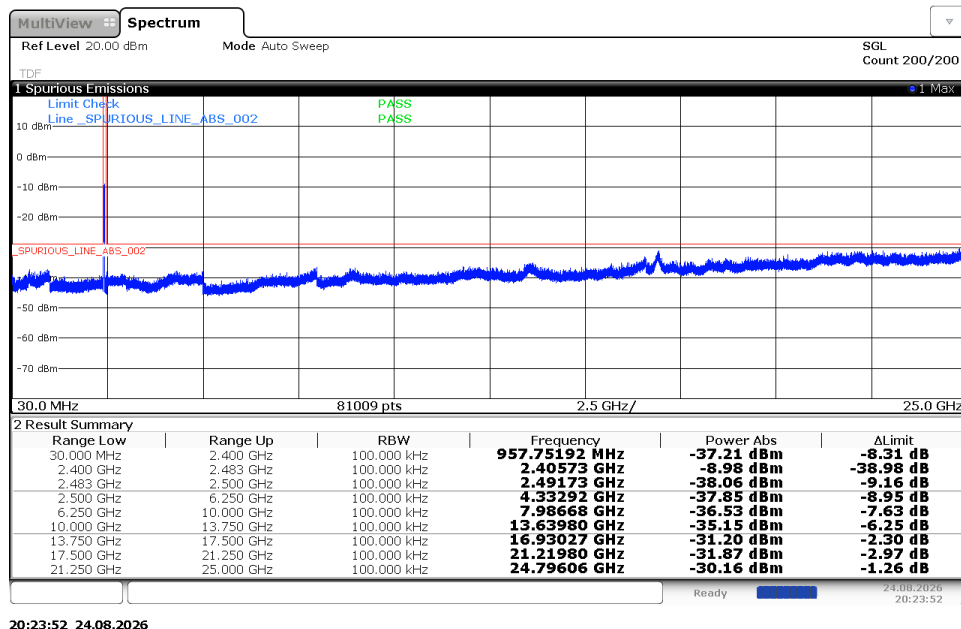


Figure 2.7.6-19 – Conducted Spurious Emissions Results - Antenna 1 - 2422 MHz - 802.11n 40 MHz

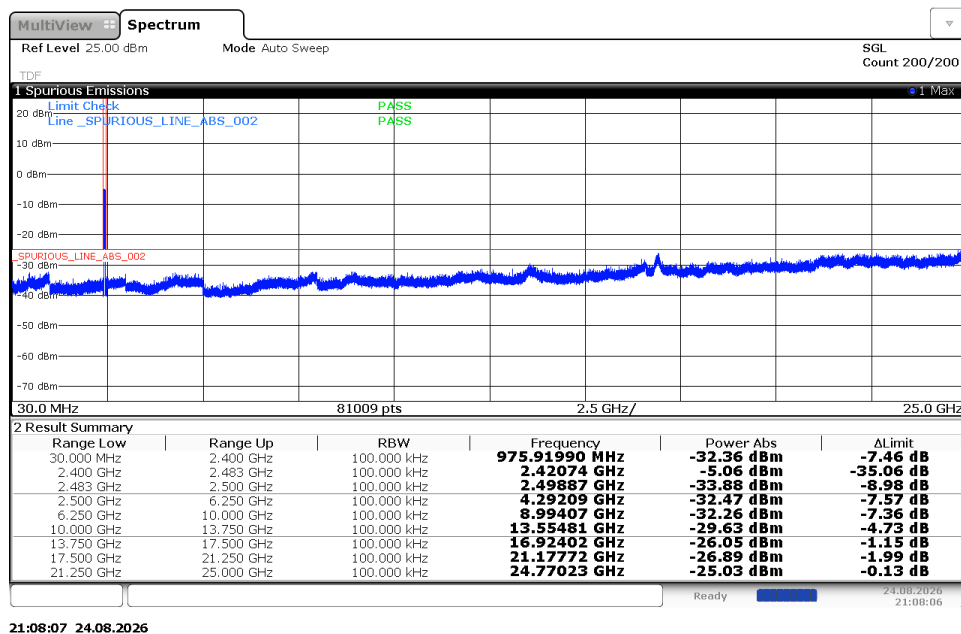


Figure 2.7.6-20 – Conducted Spurious Emissions Results - Antenna 1 - 2437 MHz - 802.11n 40 MHz

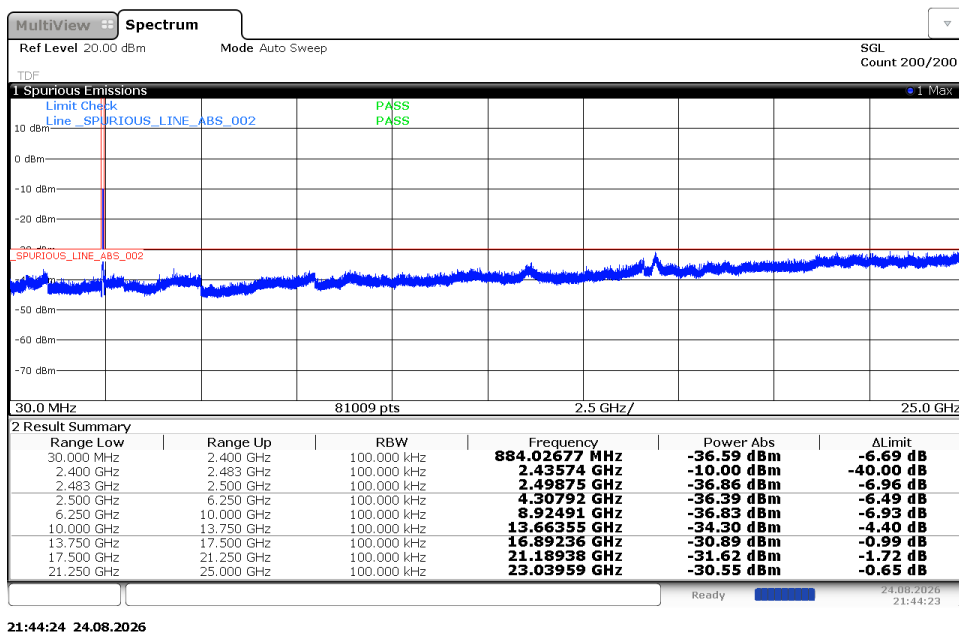


Figure 2.7.6-21 – Conducted Spurious Emissions Results - Antenna 1 - 2452 MHz - 802.11n 40 MHz

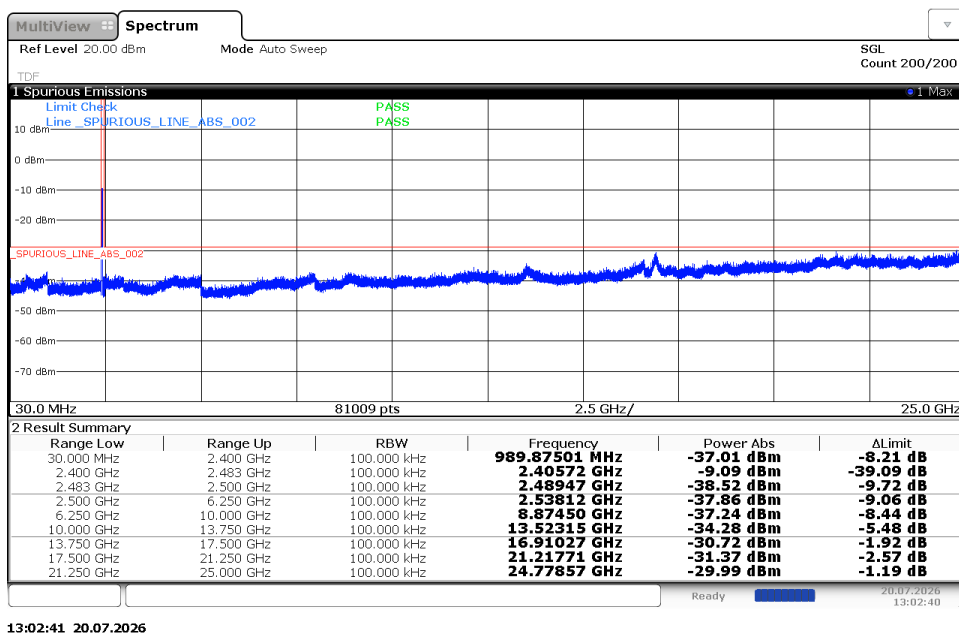


Figure 2.7.6-22 – Conducted Spurious Emissions Results - Antenna 2 - 2422 MHz - 802.11n 40 MHz

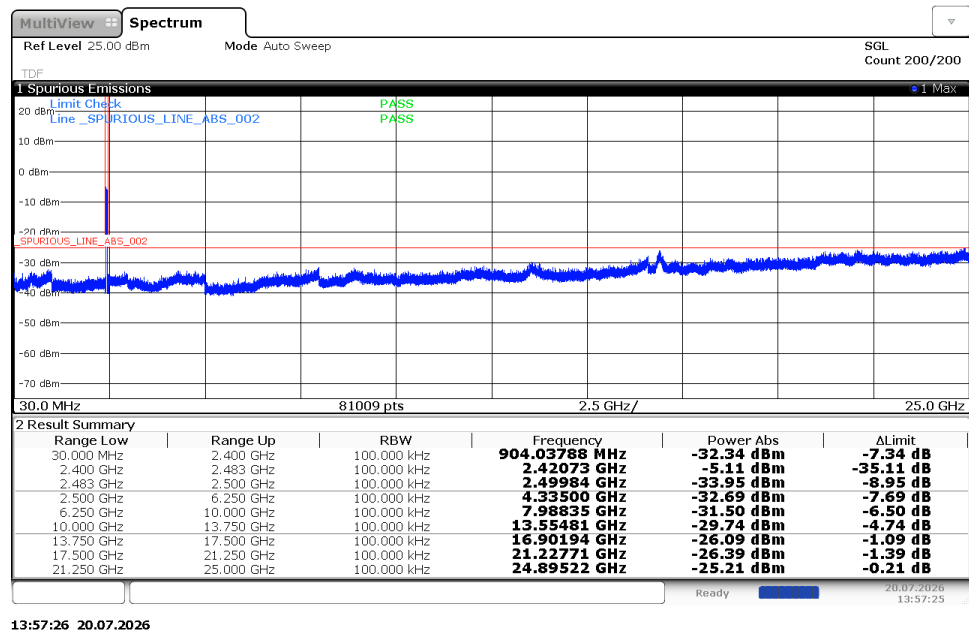


Figure 2.7.6-23 – Conducted Spurious Emissions Results - Antenna 2 - 2437 MHz - 802.11n 40 MHz

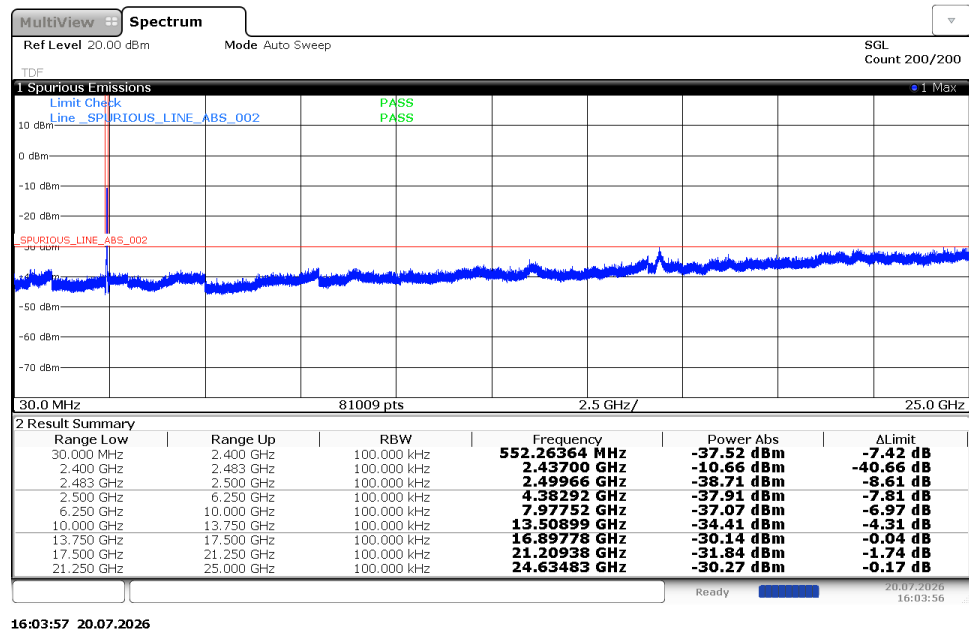
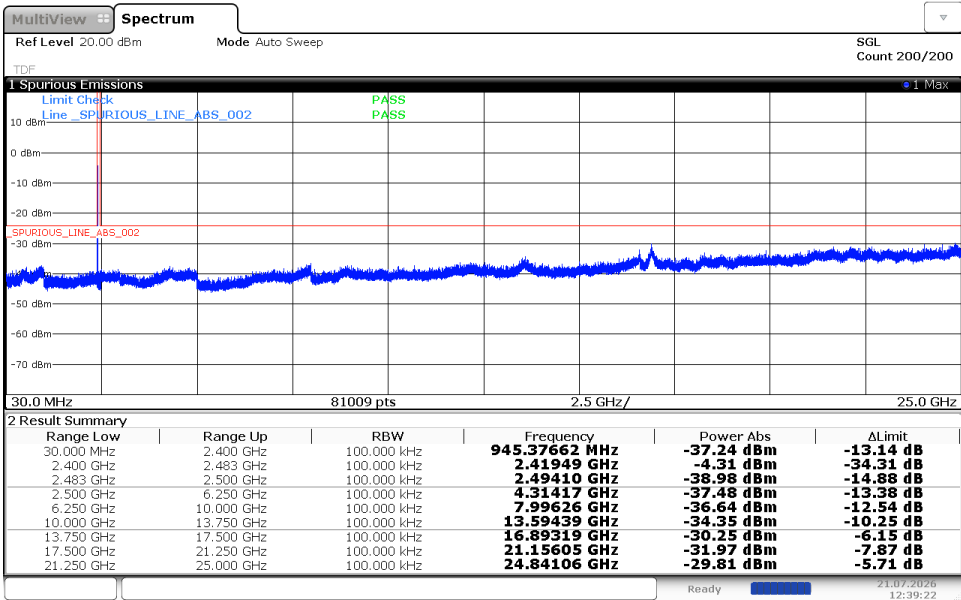
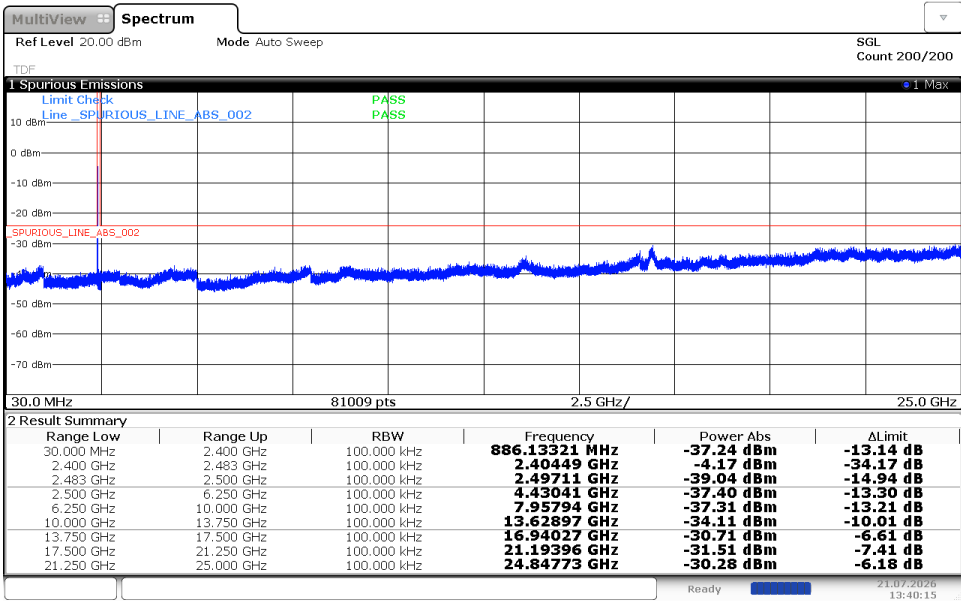


Figure 2.7.6-24 – Conducted Spurious Emissions Results - Antenna 2 - 2452 MHz - 802.11n 40 MHz



12:39:23 21.07.2026

Figure 2.7.6-25 - Conducted Spurious Emissions Results - MIMO Antenna 1 - 2412 MHz - 802.11n 20 MHz



13:40:16 21.07.2026

Figure 2.7.6-26 - Conducted Spurious Emissions Results - MIMO Antenna 2 - 2412 MHz - 802.11n 20 MHz

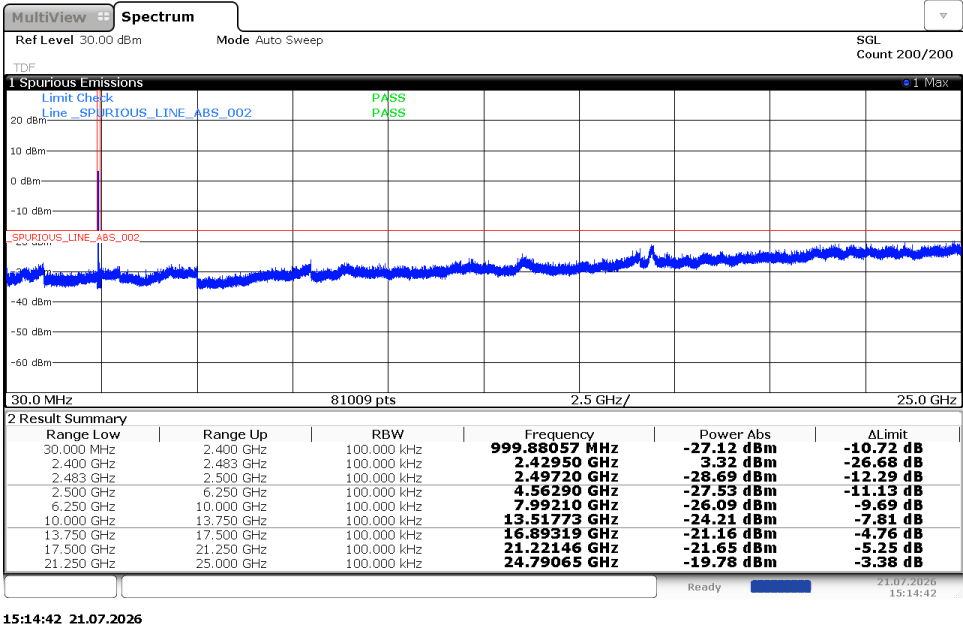


Figure 2.7.6-27 - Conducted Spurious Emissions Results - MIMO Antenna 2 - 2437 MHz - 802.11n 20 MHz

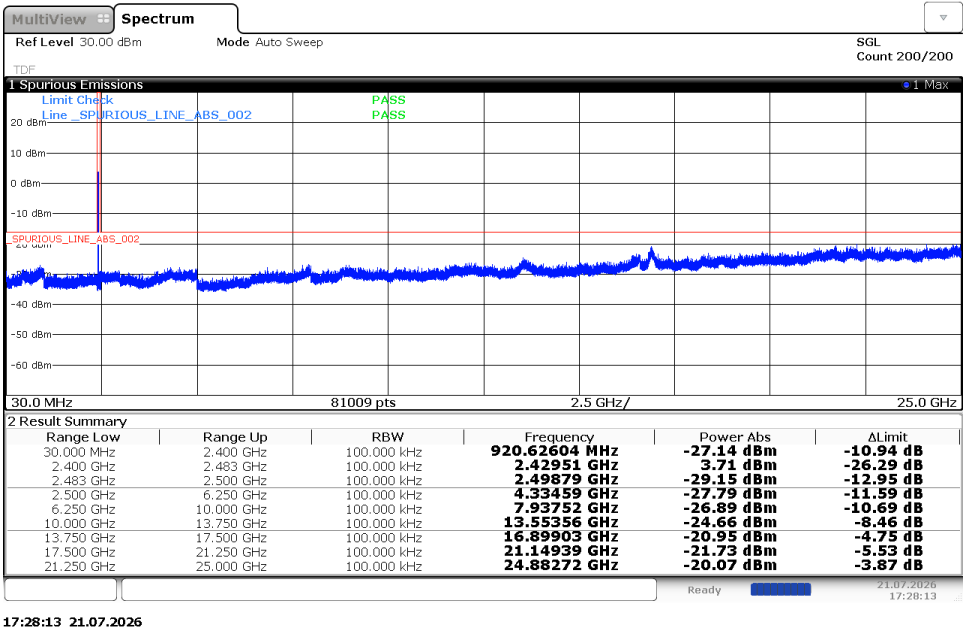


Figure 2.7.6-28 - Conducted Spurious Emissions Results - MIMO Antenna 1 - 2437 MHz - 802.11n 20 MHz

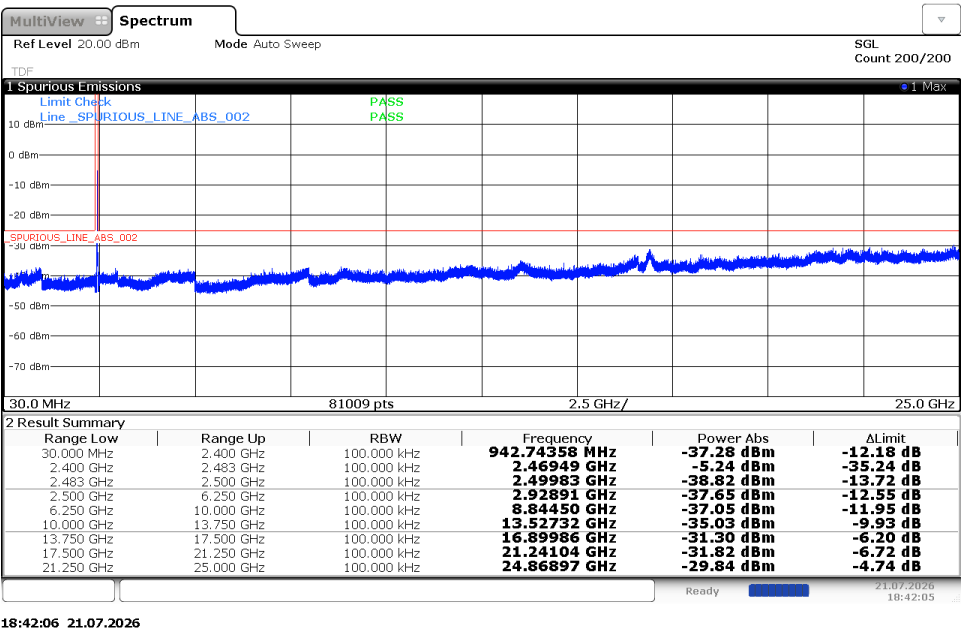


Figure 2.7.6-29 - Conducted Spurious Emissions Results - MIMO Antenna 1 - 2462 MHz - 802.11n 20 MHz

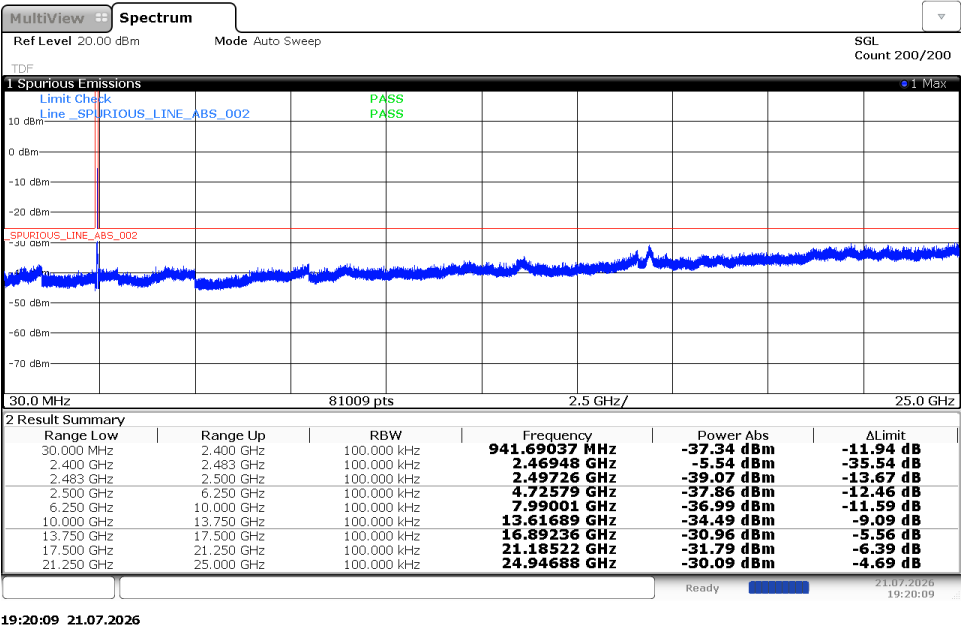


Figure 2.7.6-30 - Conducted Spurious Emissions Results - MIMO Antenna 2 - 2462 MHz - 802.11n 20 MHz

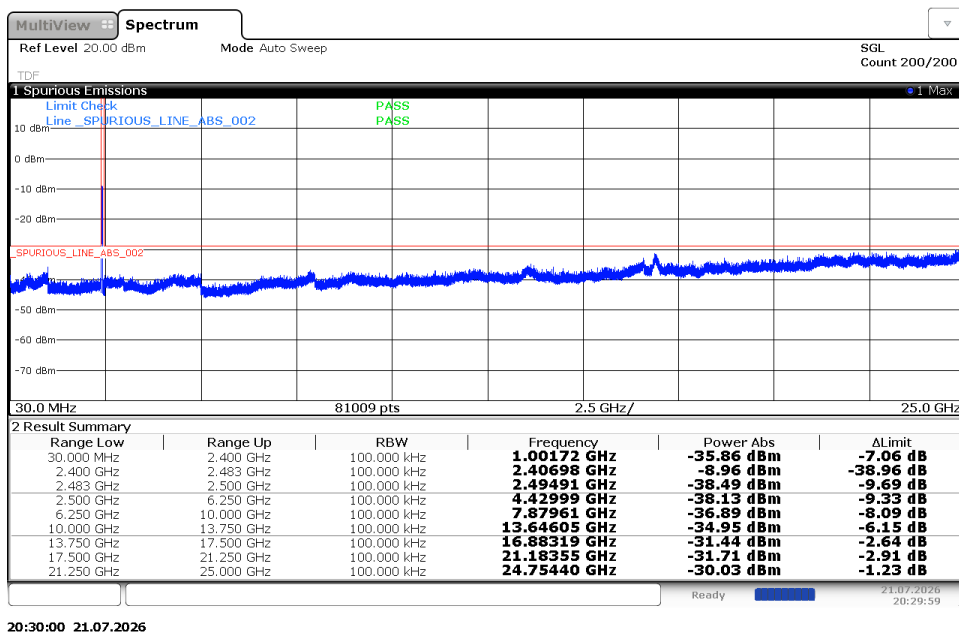


Figure 2.7.6-31 - Conducted Spurious Emissions Results - MIMO Antenna 2 - 2422 MHz - 802.11n 40 MHz

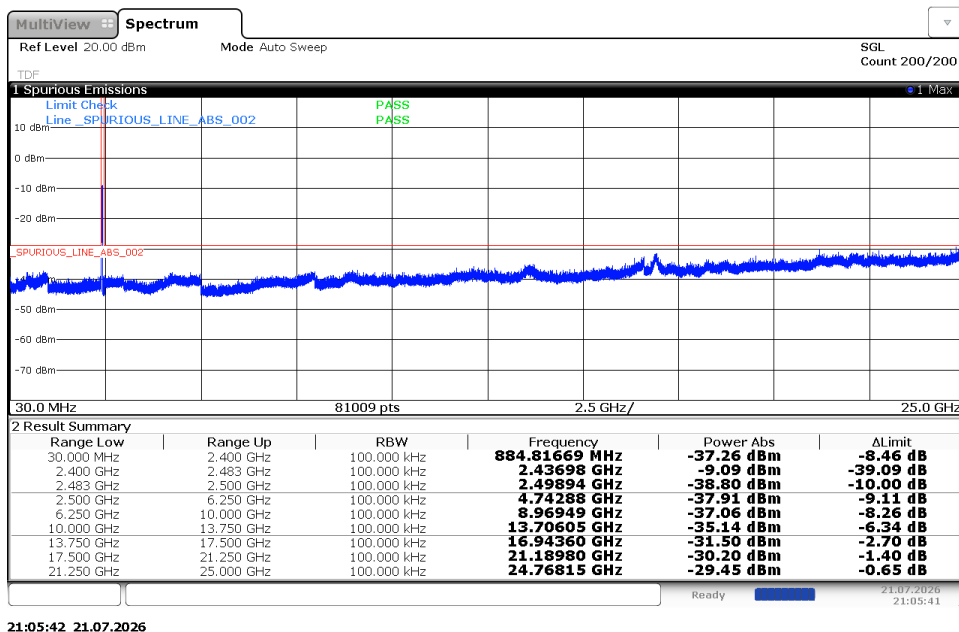


Figure 2.7.6-32 - Conducted Spurious Emissions Results - MIMO Antenna 1 - 2422 MHz - 802.11n 40 MHz

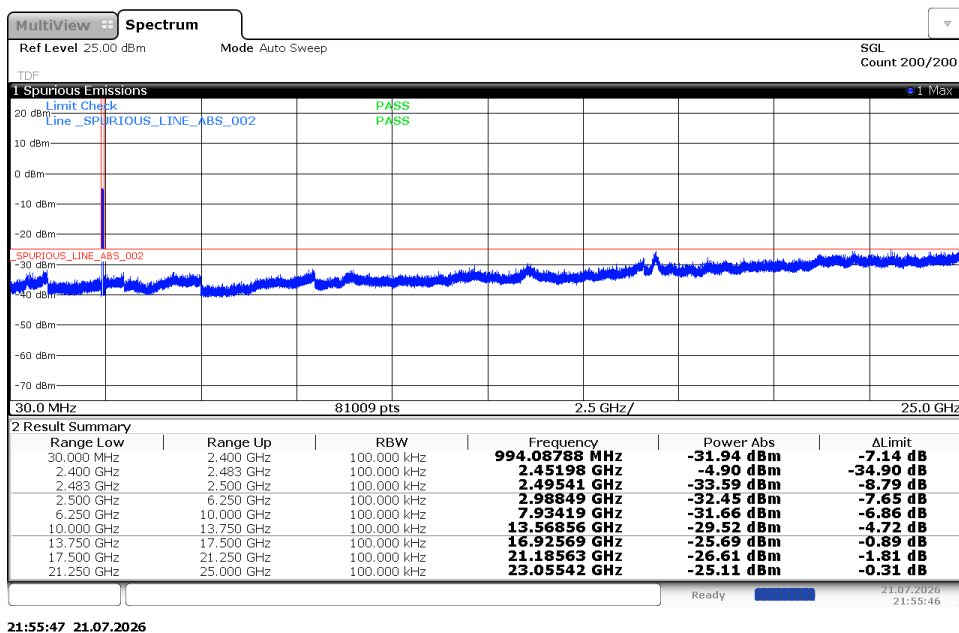


Figure 2.7.6-33 - Conducted Spurious Emissions Results - MIMO Antenna 1 - 2437 MHz - 802.11n 40 MHz

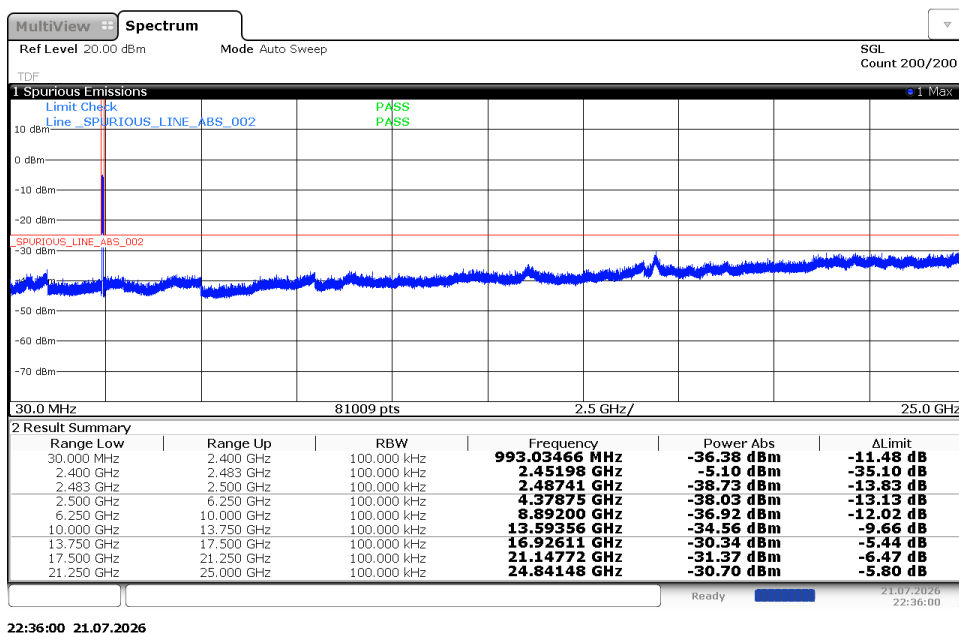


Figure 2.7.6-34 - Conducted Spurious Emissions Results - MIMO Antenna 2 - 2437 MHz - 802.11n 40 MHz

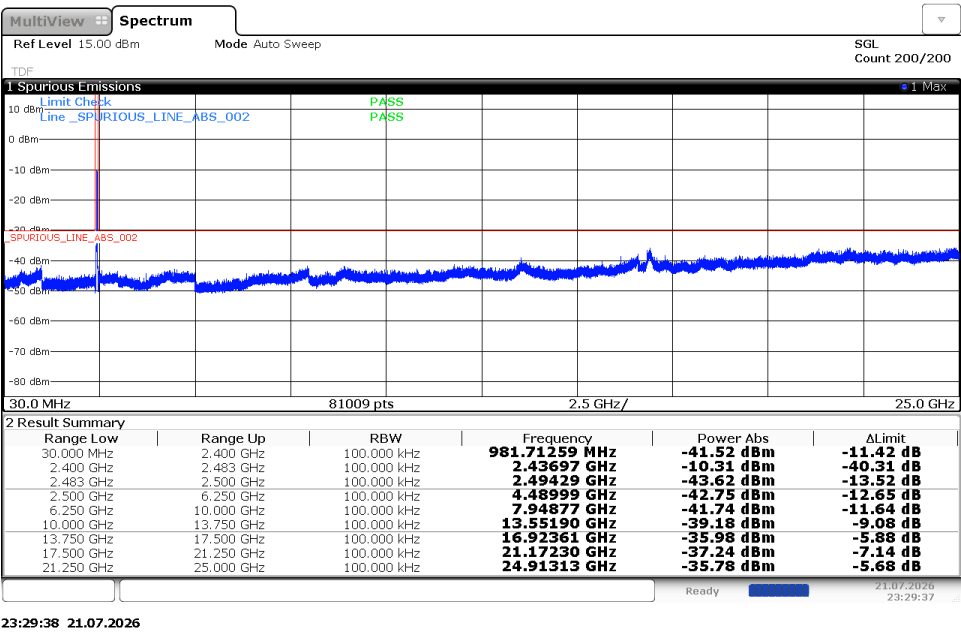


Figure 2.7.6-35 - Conducted Spurious Emissions Results - MIMO Antenna 2 - 2452 MHz - 802.11n 40 MHz

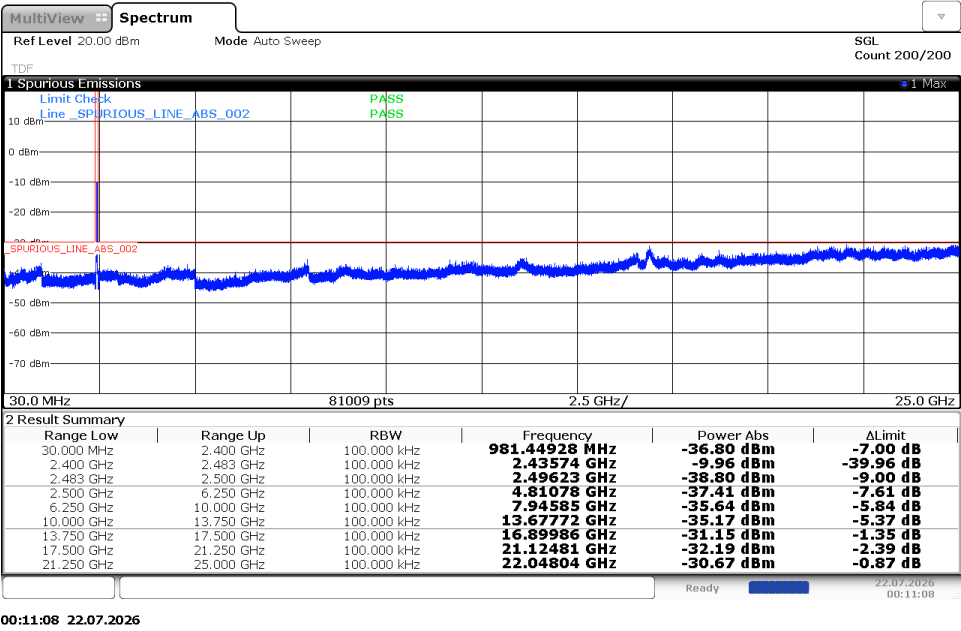


Figure 2.7.6-36 - Conducted Spurious Emissions Results - MIMO Antenna 1 - 2452 MHz - 802.11n 40 MHz



2.7.7 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.