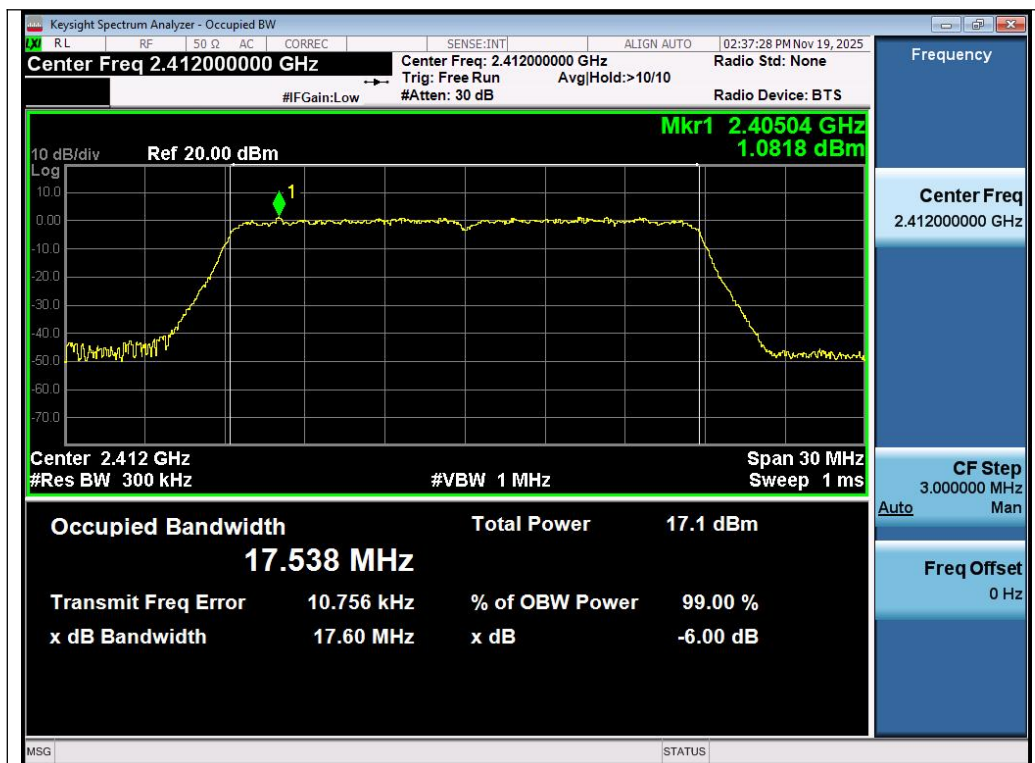
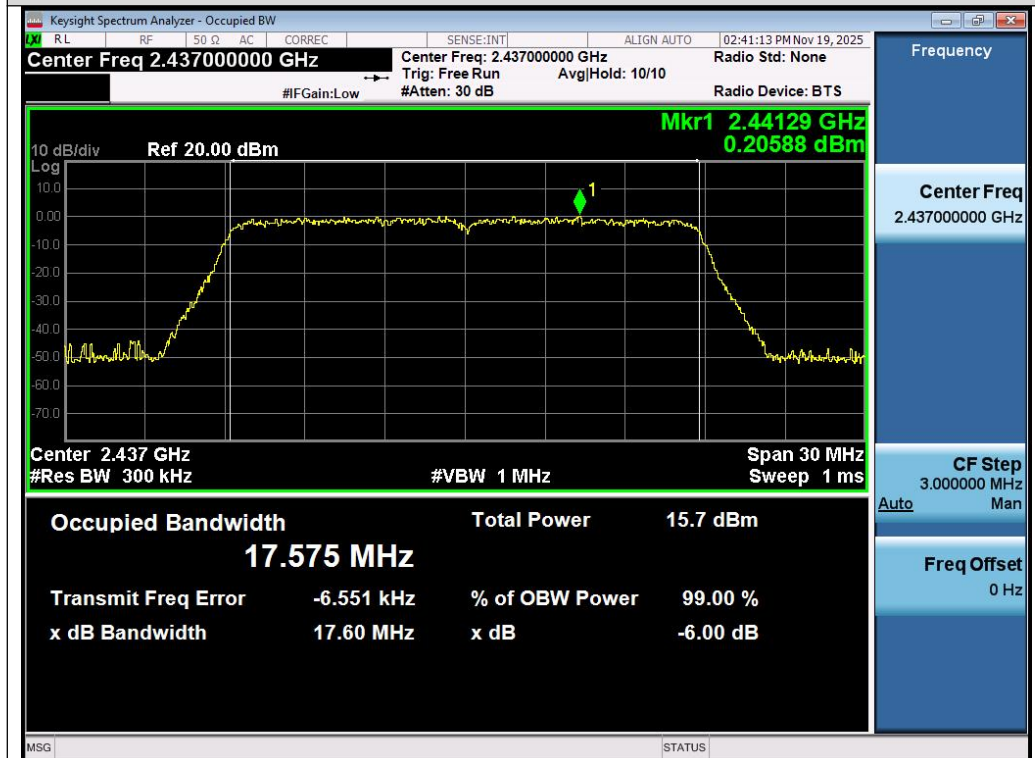


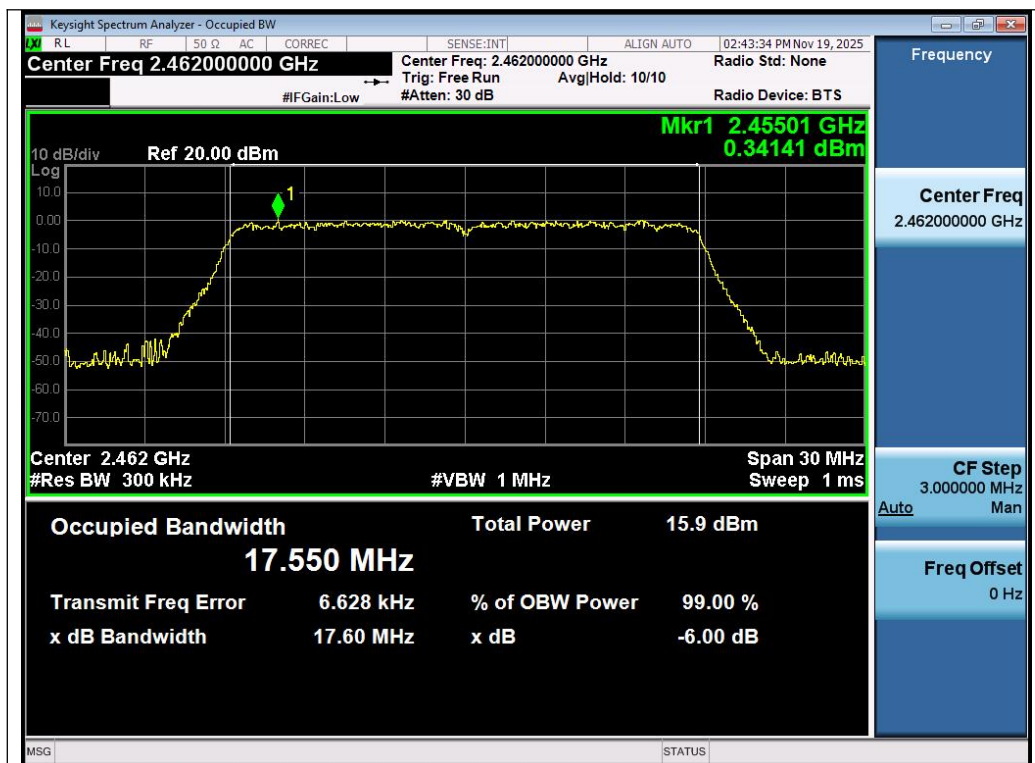


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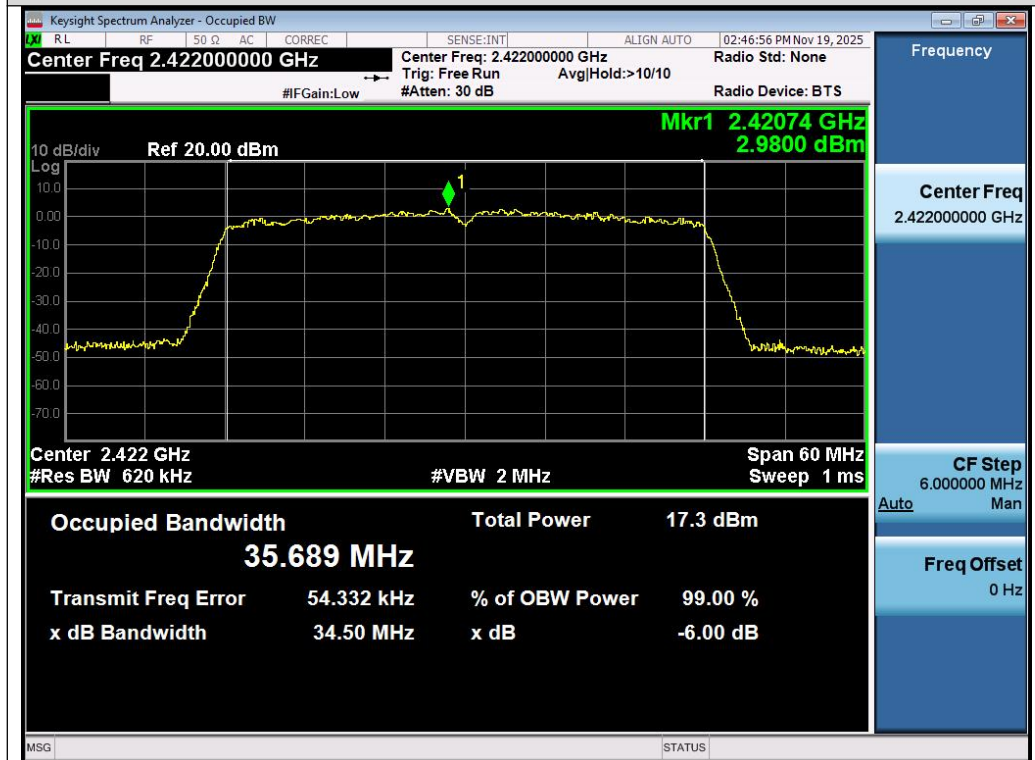


Test_Graph_802.11n20_Chain B_2437_MCS0_DTSBW

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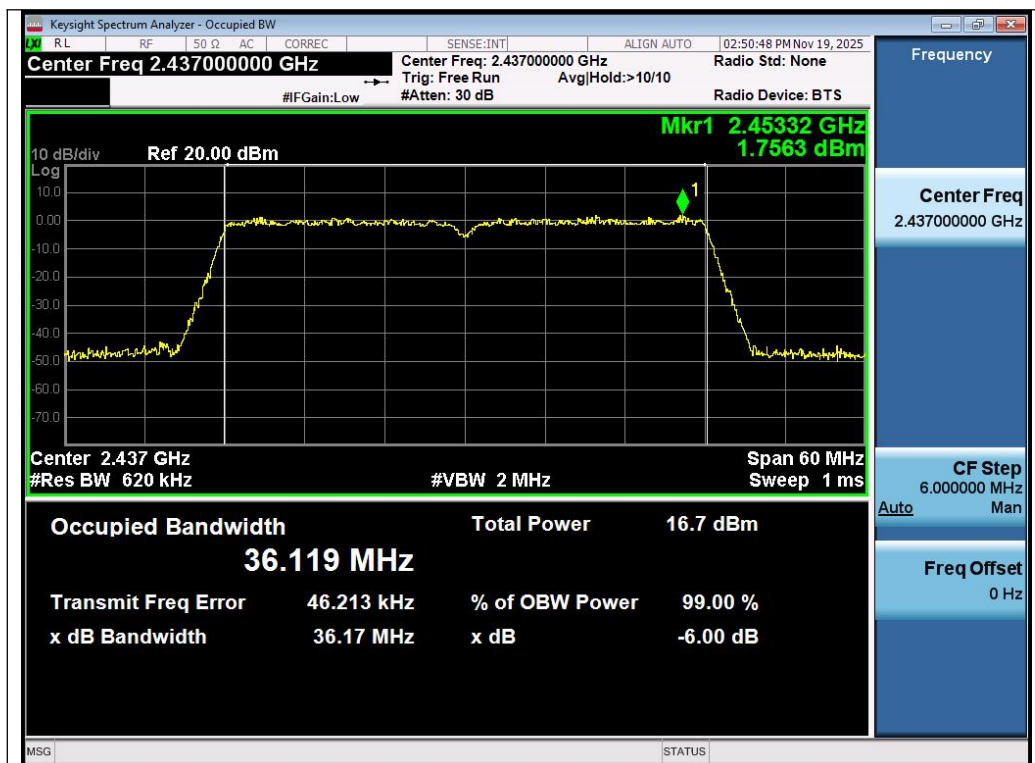


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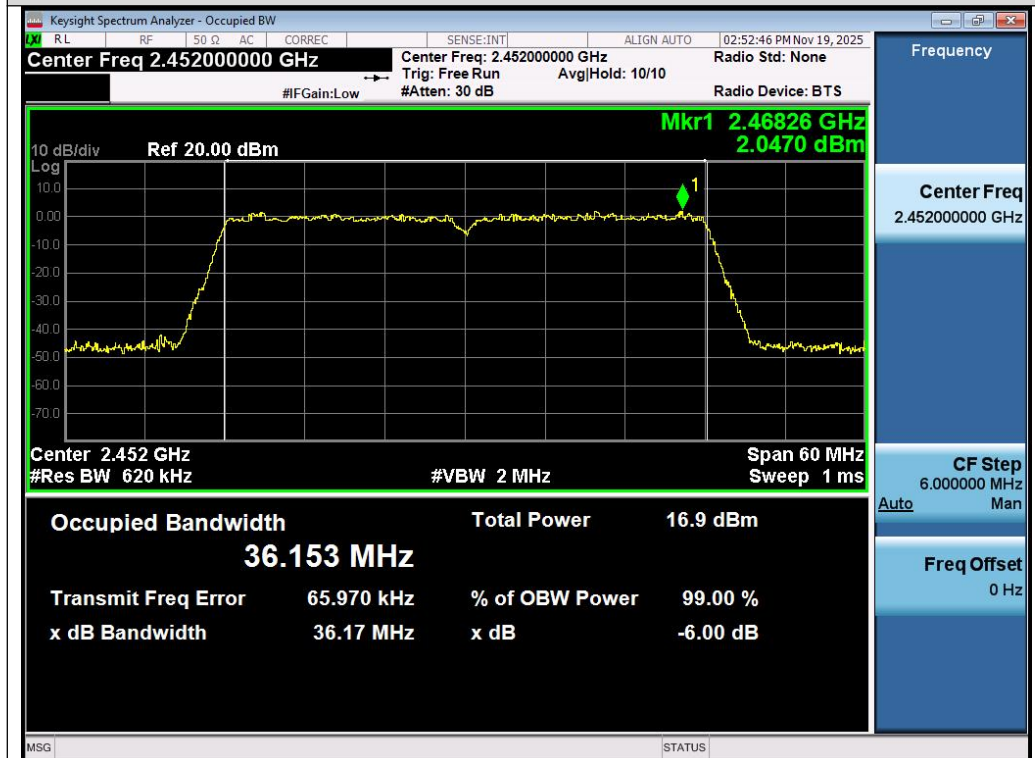


Test_Graph_802.11n40_Chain B_2422_MCS0_DTSBW

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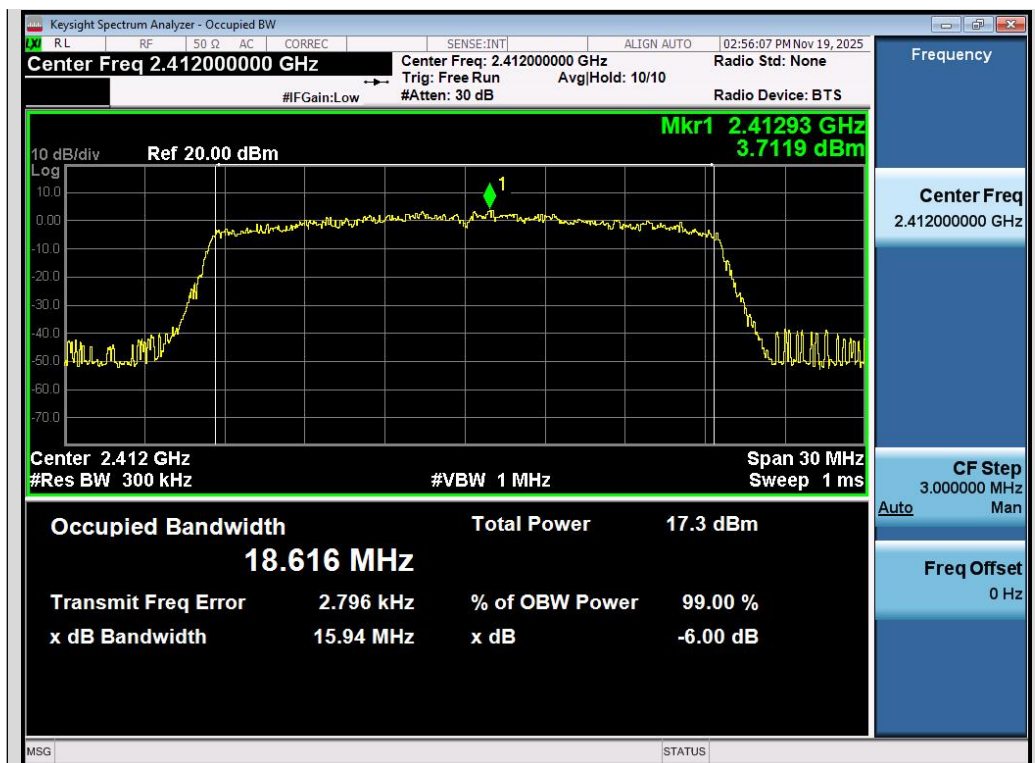


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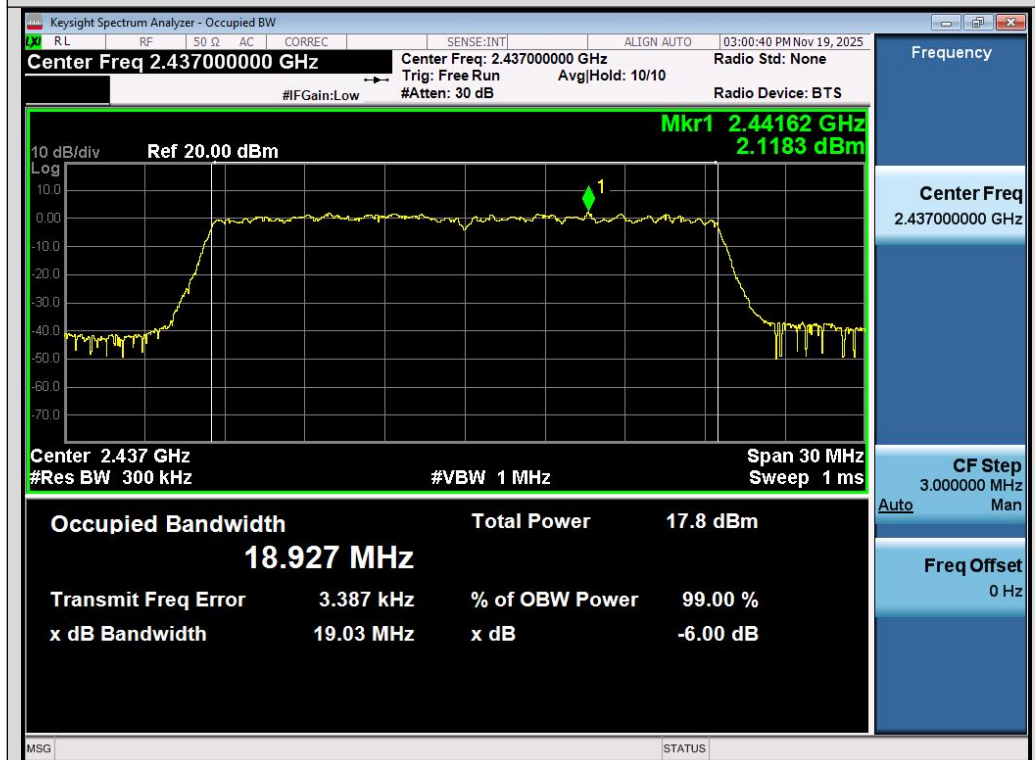


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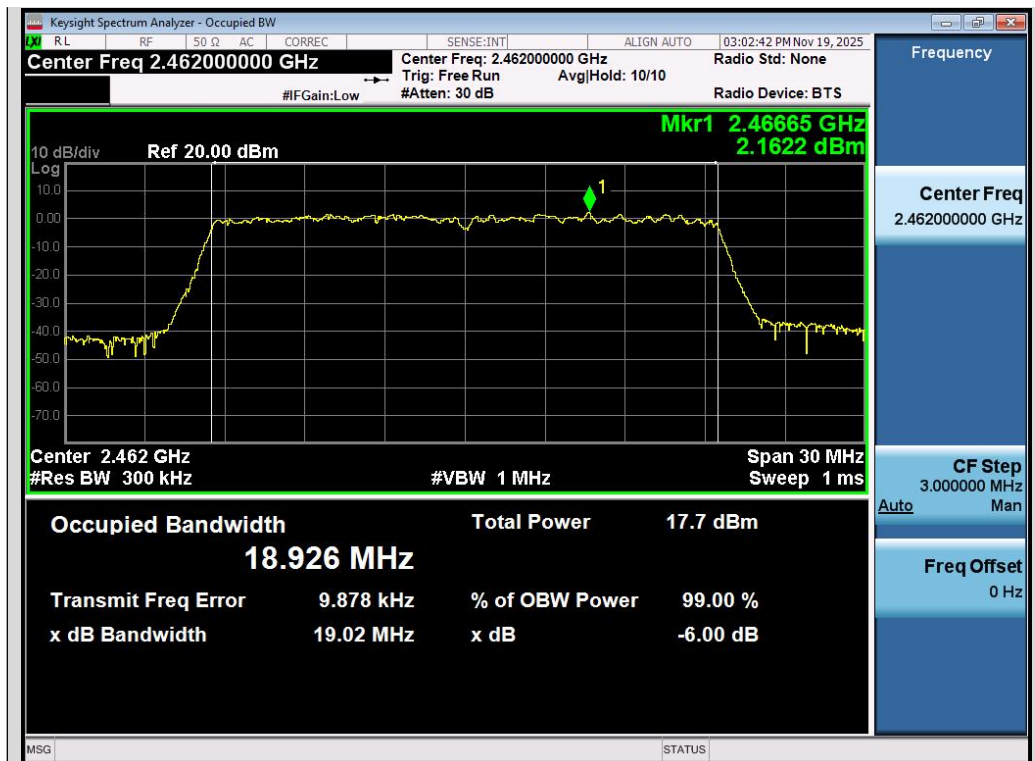


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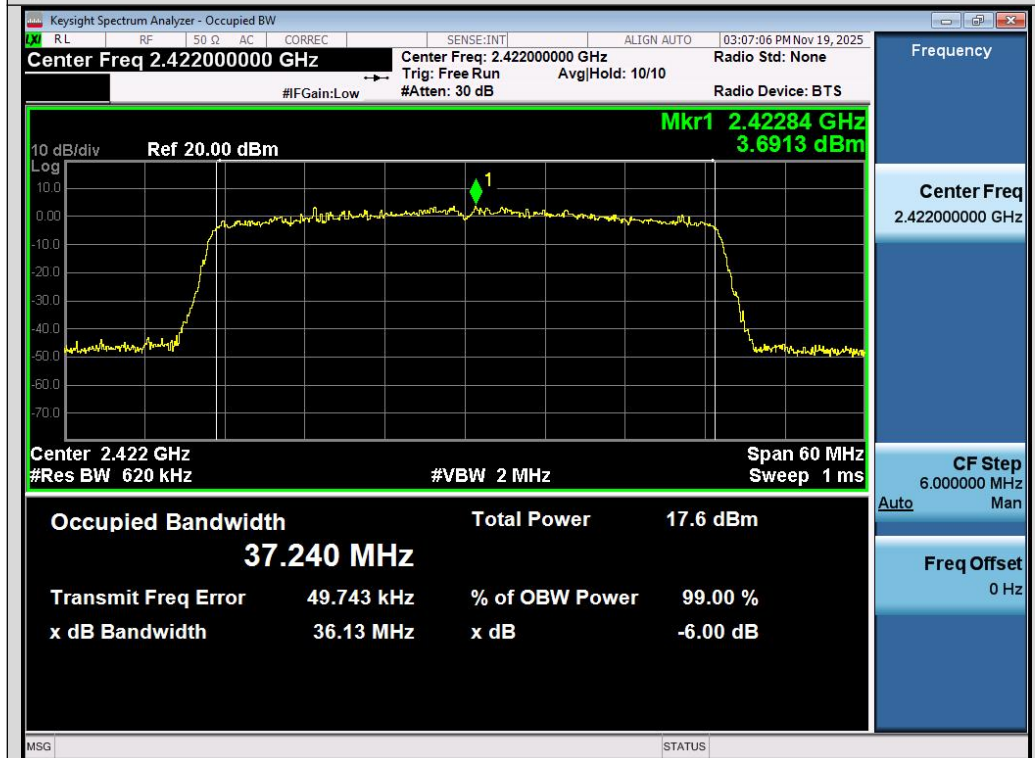


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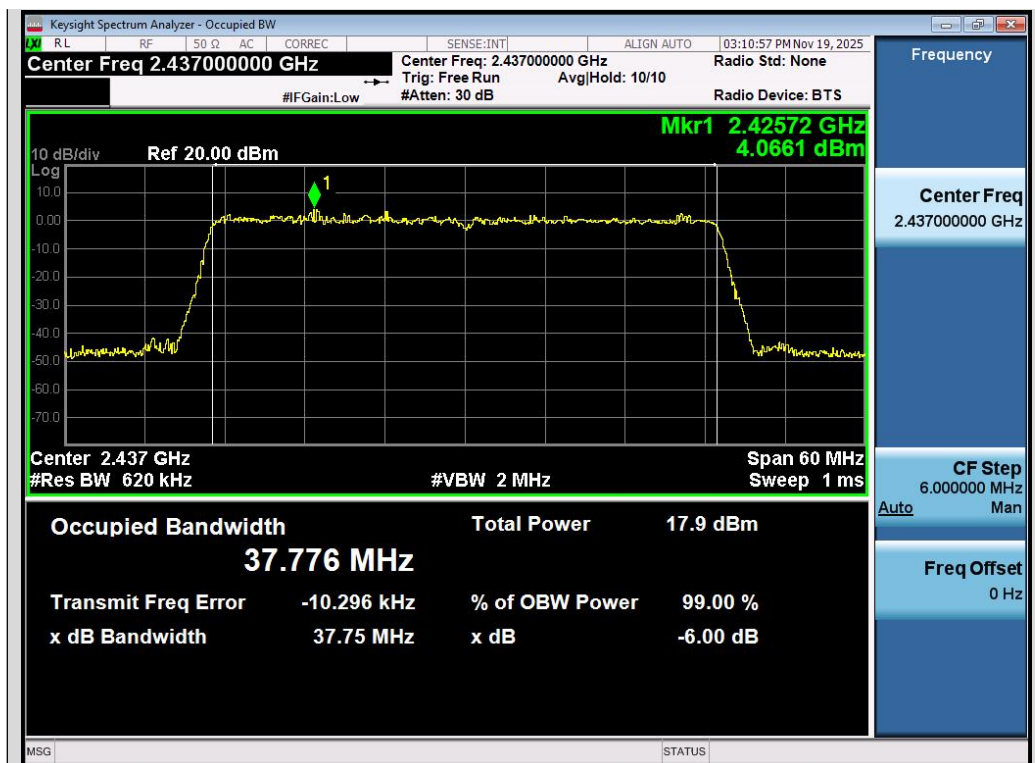


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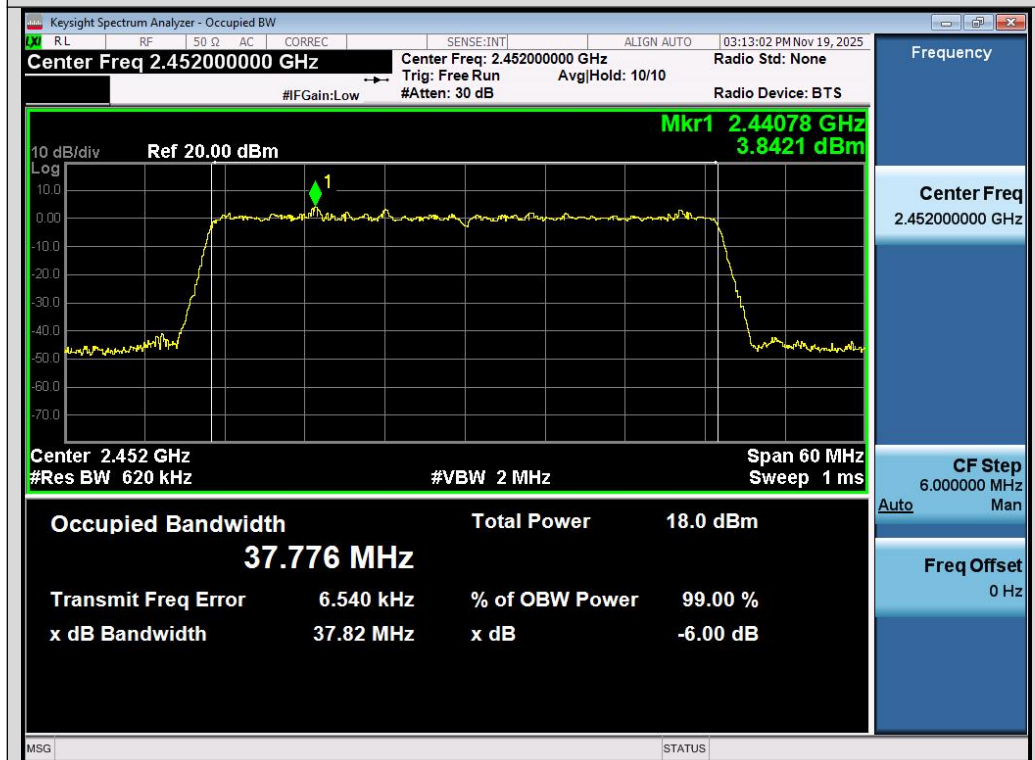


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Test_Graph_802.11ax40_Chain B_2437_MCS0_DTSBW



Test_Graph_802.11ax40_Chain B_2452_MCS0_DTSBW

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9. Power Spectral Density Measurement

9.1 Provisions Applicable

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

9.2 Measurement Procedure

☒ For Peak power spectral density test:

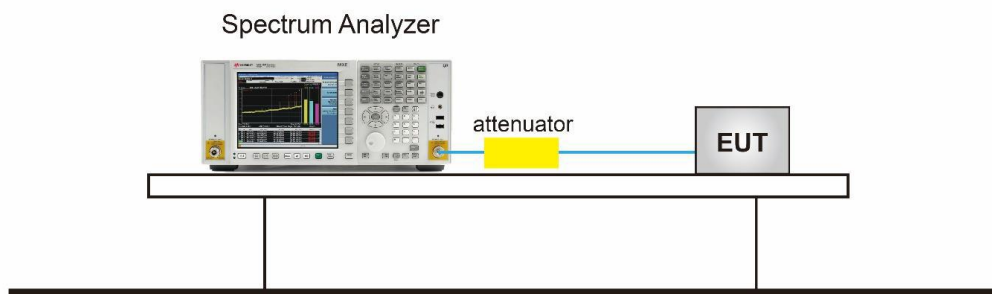
1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set the RBW = 3 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Set the Span $\geq [1.5 \times \text{DTS bandwidth}]$.
6. Sweep time=Auto couple.
7. Detector function=Peak.
8. Trace Mode=Max hold.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$ is added to the measurement result.
10. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
11. The indicated level is the peak output power, after any corrections for external attenuators and cables.

☐ For Average power spectral density test:

1. The testing follows the ANSI C63.10 Section 11.10.5 Method AVPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set Span to at least 1.5 times the OBW.
4. Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
5. Set VBW $\geq [3 \times \text{RBW}]$.
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$ is added to the measurement result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.
12. Record the test results in the report.

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9.3 Measurement Setup (Block Diagram of Configuration)



9.4 Measurement Result

Test Data of Conducted Output Power Spectral Density-Chain A				
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-9.835	≤8	Pass
	2437	-10.364	≤8	Pass
	2462	-11.391	≤8	Pass
802.11g	2412	-15.890	≤8	Pass
	2437	-16.197	≤8	Pass
	2462	-16.849	≤8	Pass
802.11n20	2412	-15.199	≤8	Pass
	2437	-15.486	≤8	Pass
	2462	-15.833	≤8	Pass
802.11n40	2422	-17.630	≤8	Pass
	2437	-18.845	≤8	Pass
	2452	-19.634	≤8	Pass
802.11ax20	2412	-14.466	≤8	Pass
	2437	-16.042	≤8	Pass
	2462	-16.753	≤8	Pass
802.11ax40	2422	-17.728	≤8	Pass
	2437	-18.789	≤8	Pass
	2452	-19.363	≤8	Pass

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Test Data of Conducted Output Power Spectral Density-Chain B				
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-10.808	≤8	Pass
	2437	-11.659	≤8	Pass
	2462	-11.555	≤8	Pass
802.11g	2412	-16.154	≤8	Pass
	2437	-17.416	≤8	Pass
	2462	-16.878	≤8	Pass
802.11n20	2412	-15.968	≤8	Pass
	2437	-16.858	≤8	Pass
	2462	-17.024	≤8	Pass
802.11n40	2422	-18.253	≤8	Pass
	2437	-18.546	≤8	Pass
	2452	-19.315	≤8	Pass
802.11ax20	2412	-15.001	≤8	Pass
	2437	-17.468	≤8	Pass
	2462	-17.191	≤8	Pass
802.11ax40	2422	-19.163	≤8	Pass
	2437	-19.757	≤8	Pass
	2452	-19.984	≤8	Pass

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Test Data of Conducted Output Power Spectral Density-MIMO				
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11n20	2412	-12.56	≤8	Pass
	2437	-13.11	≤8	Pass
	2462	-13.38	≤8	Pass
802.11n40	2422	-14.92	≤8	Pass
	2437	-15.68	≤8	Pass
	2452	-16.46	≤8	Pass
802.11ax20	2412	-11.71	≤8	Pass
	2437	-13.69	≤8	Pass
	2462	-13.96	≤8	Pass
802.11ax40	2422	-15.38	≤8	Pass
	2437	-16.24	≤8	Pass
	2452	-16.65	≤8	Pass

Note:

- The Total Power Spectral Density (dBm) = $10 \cdot \log \{10^{(\text{Ant1 PSD} / 10)} + 10^{(\text{Ant2 PSD} / 10)}\}$.

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Test Graphs of Conducted Output Power Spectral Density

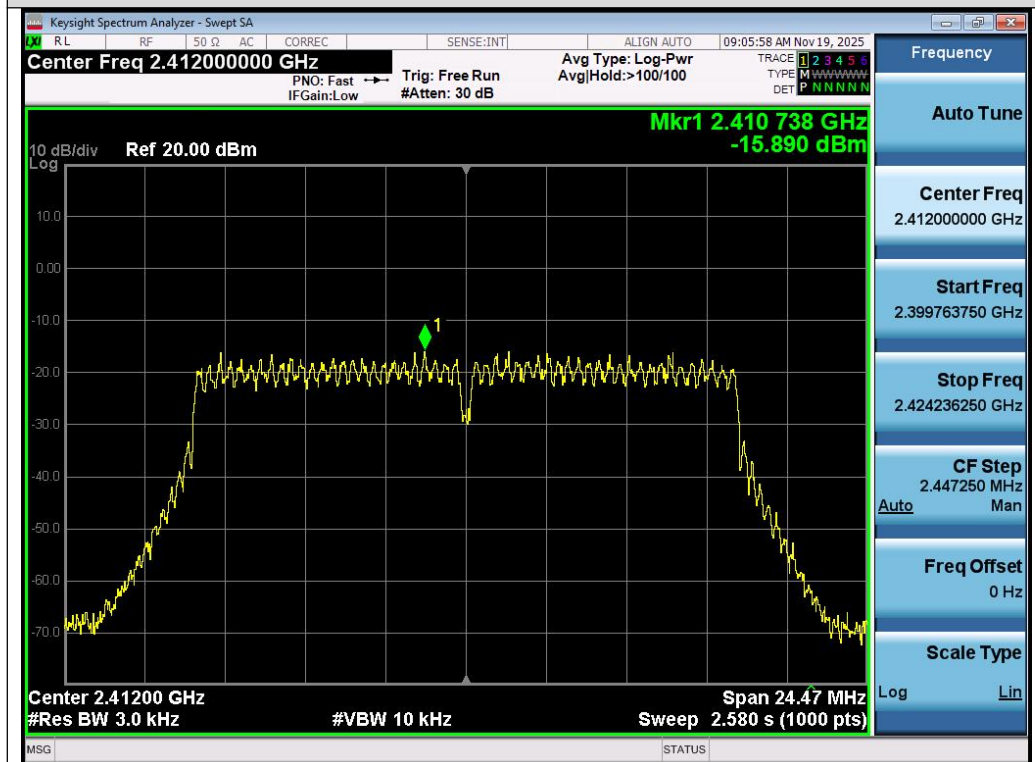


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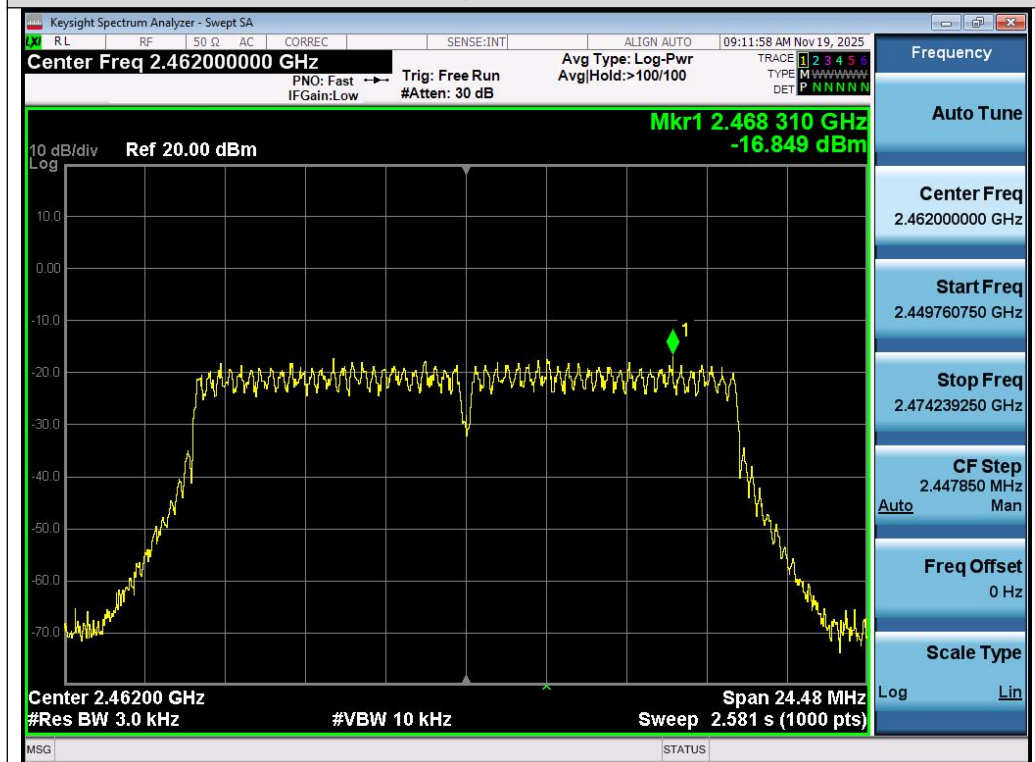
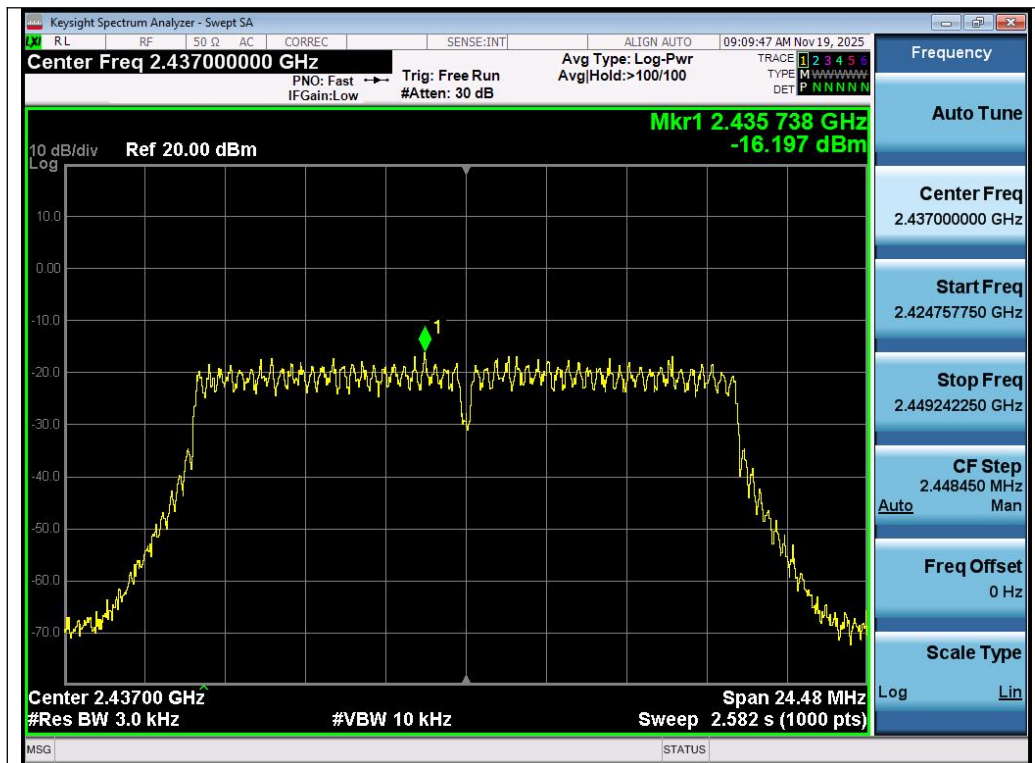


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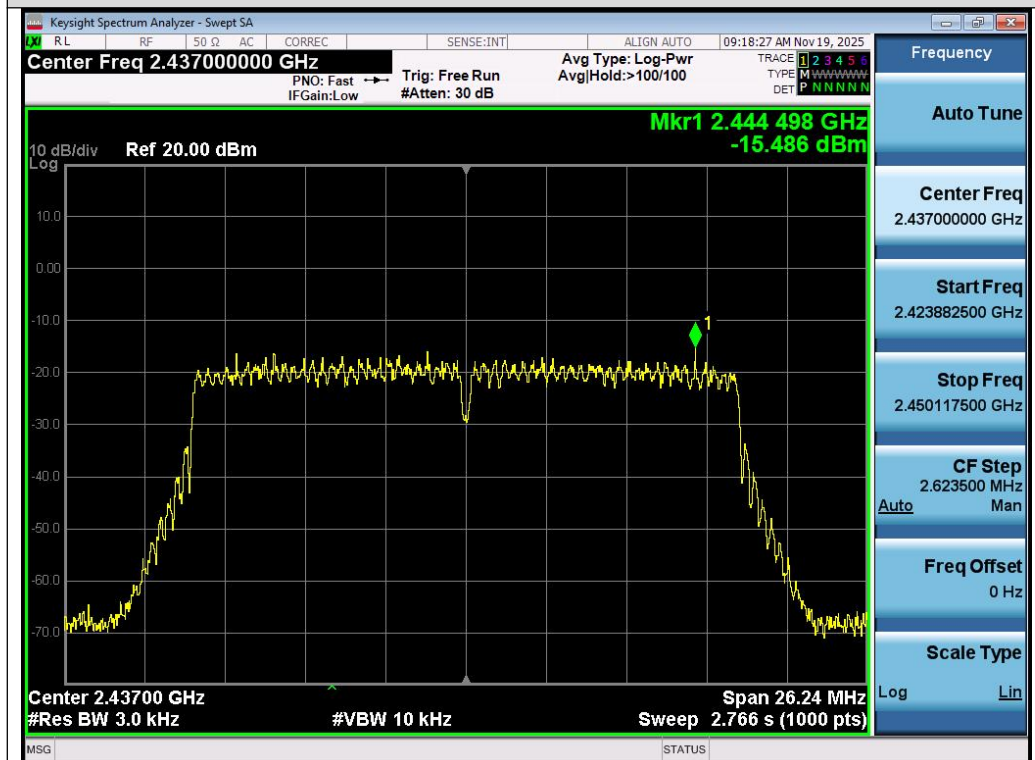
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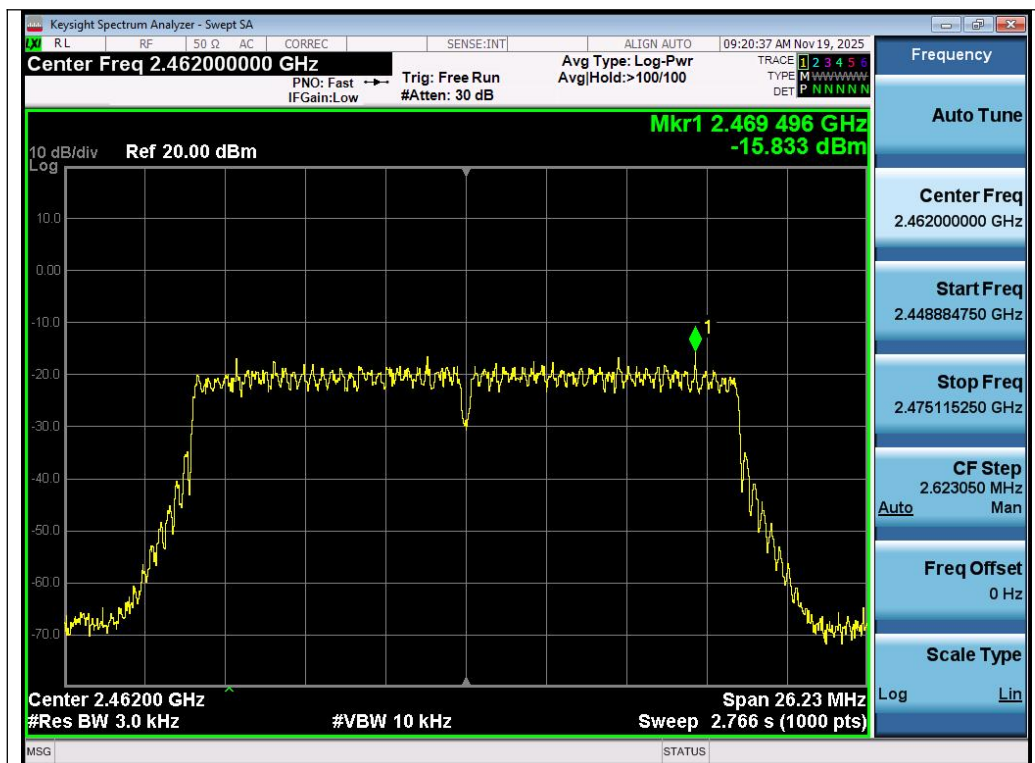


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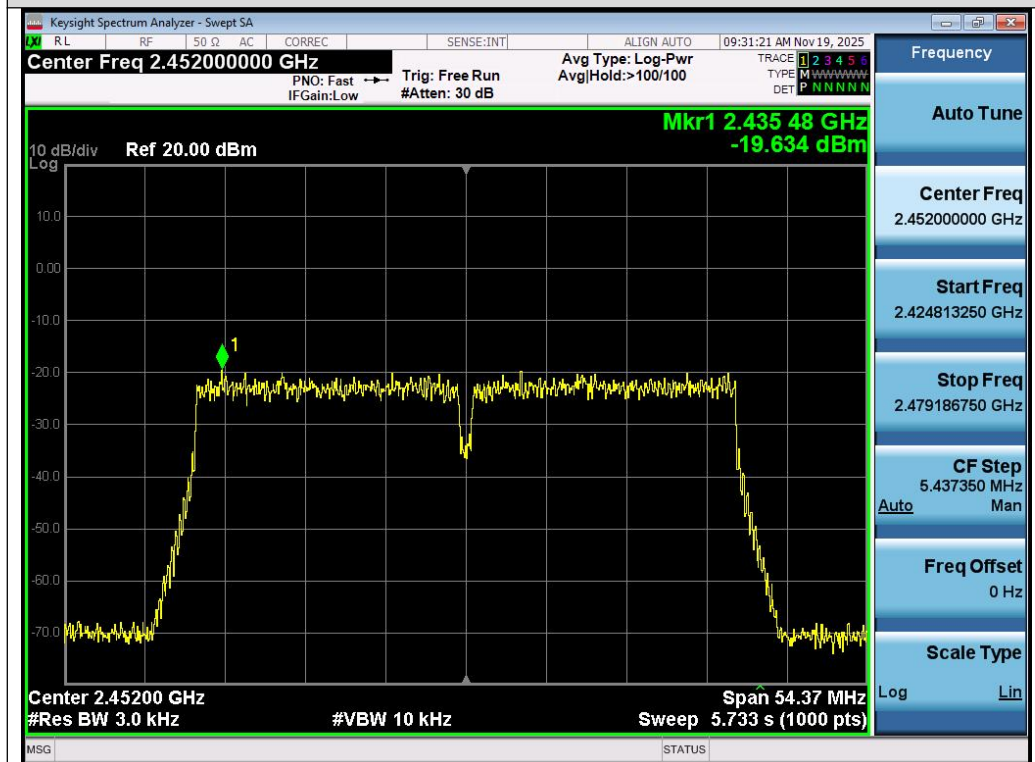
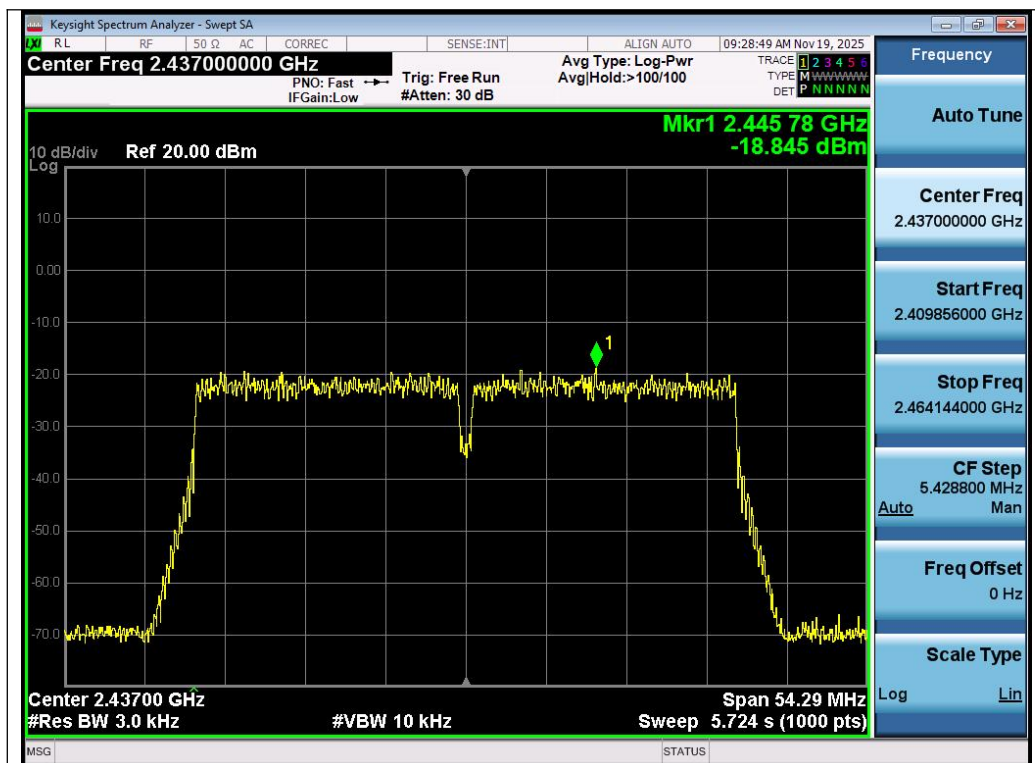
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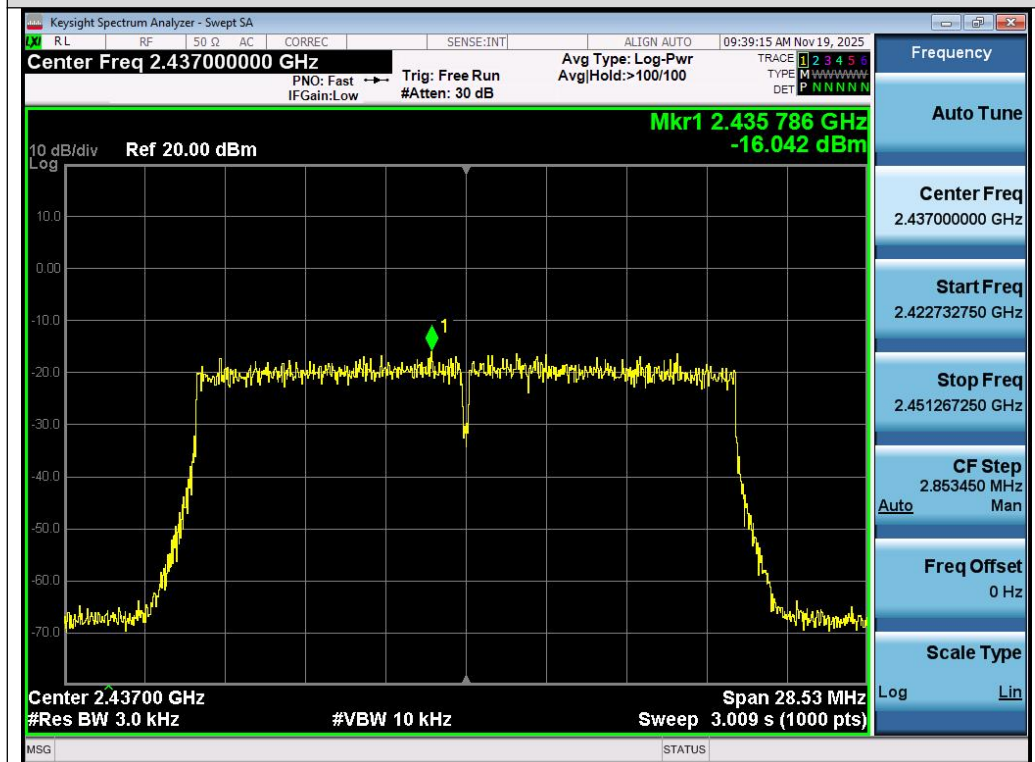
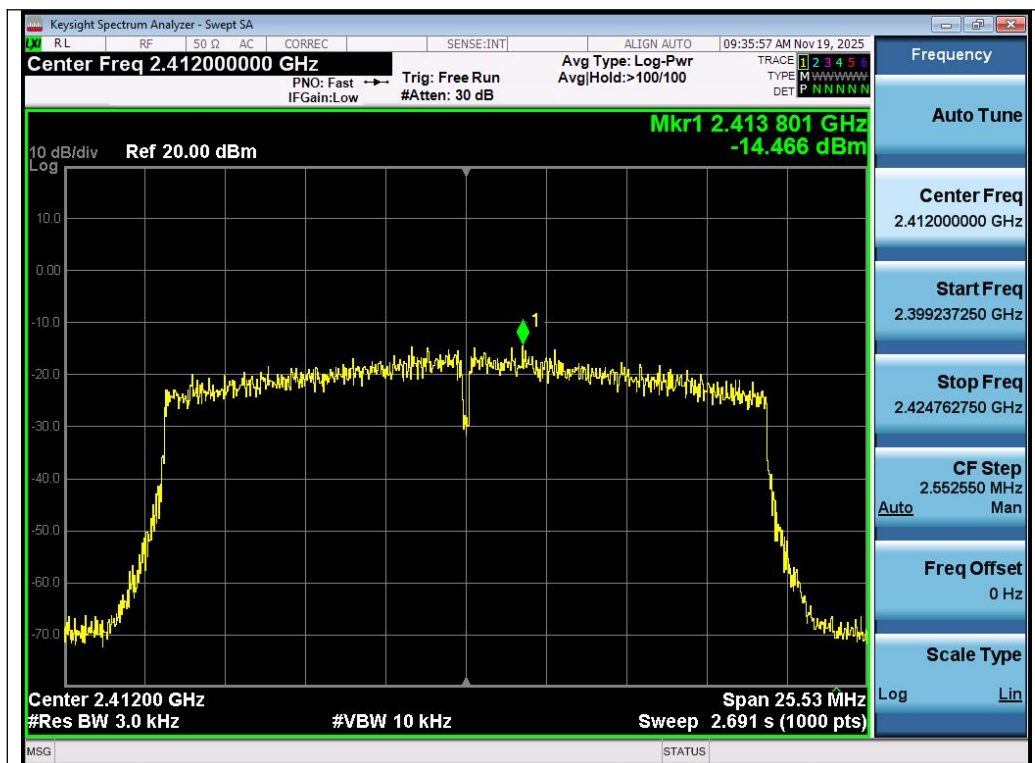
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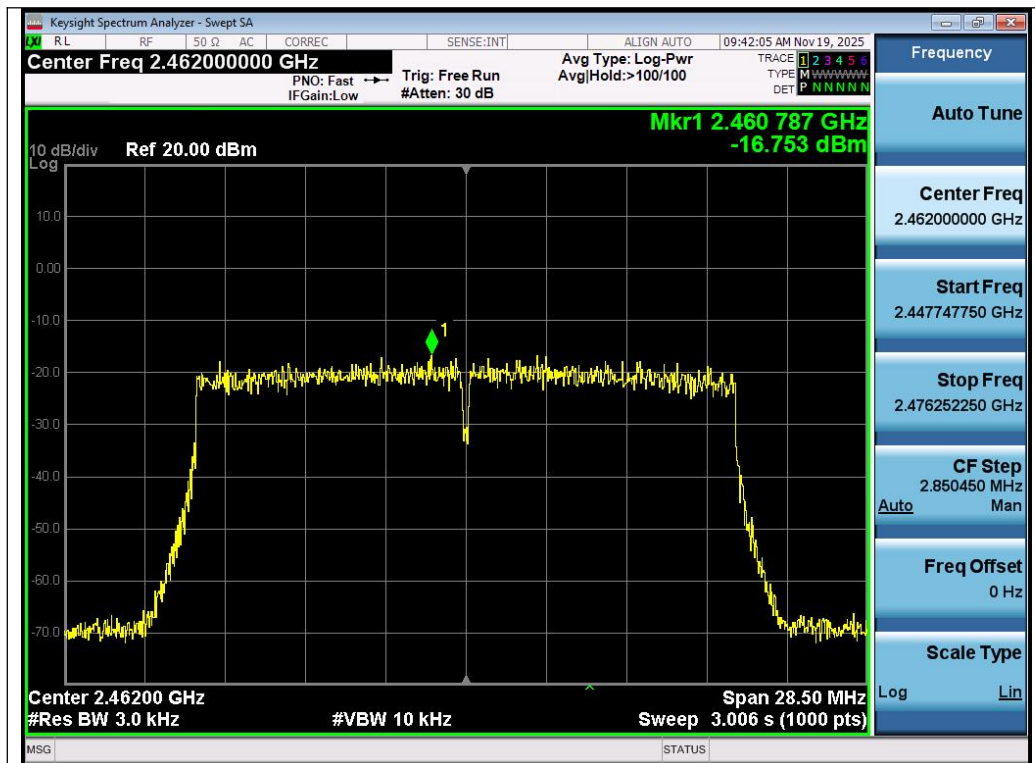
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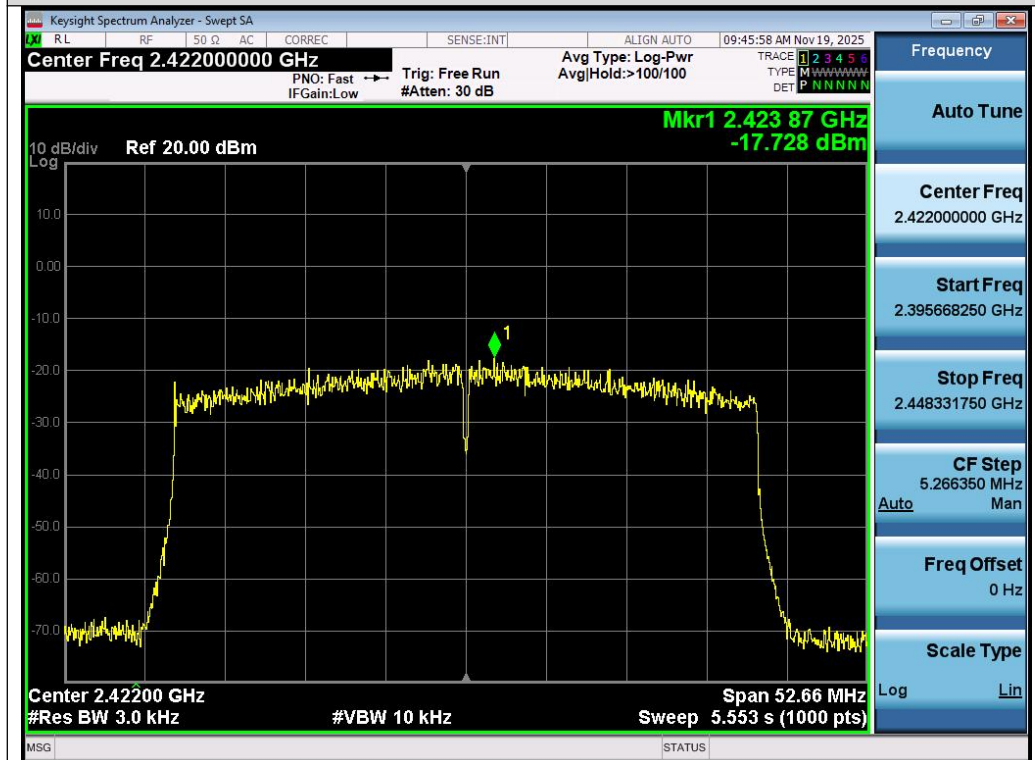


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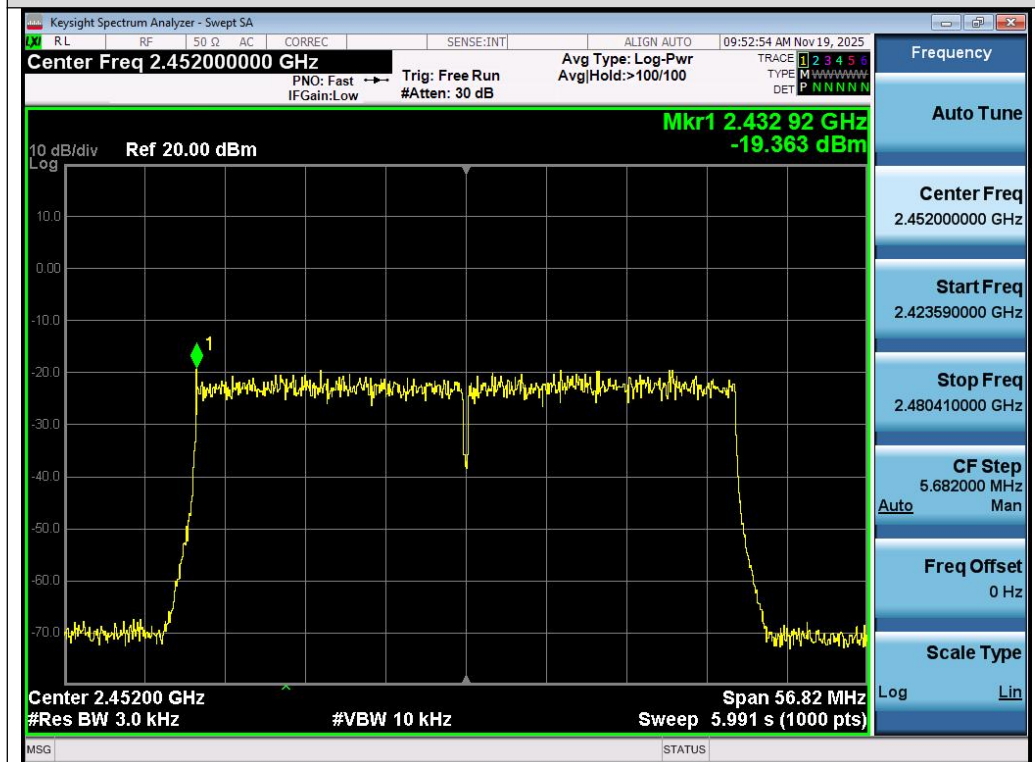
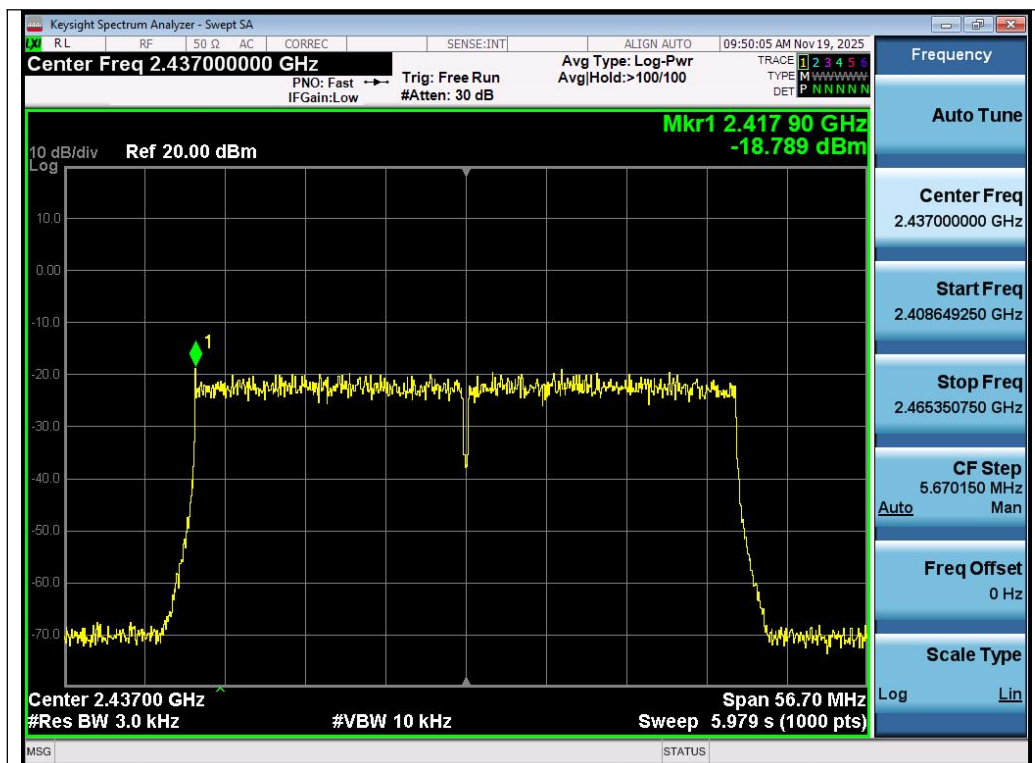
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Test_Graph_802.11ax40_Chain A_2422_MCS0_PSD

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Test_Graph_802.11b_Chain B_2412_1Mbps_PSD

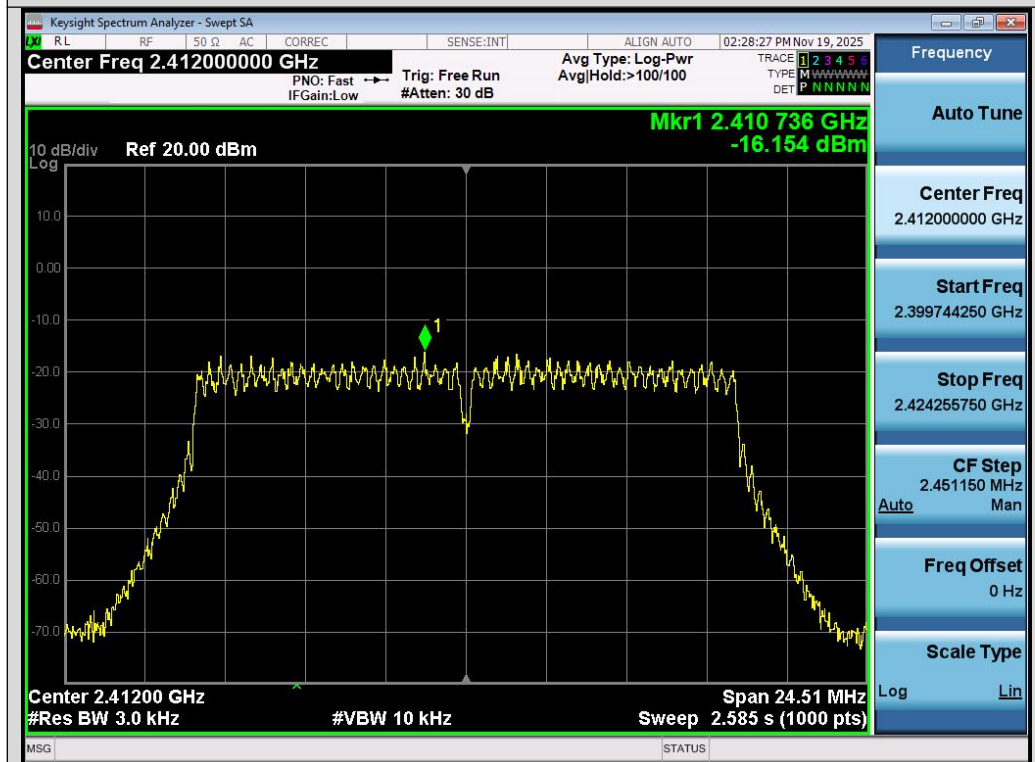


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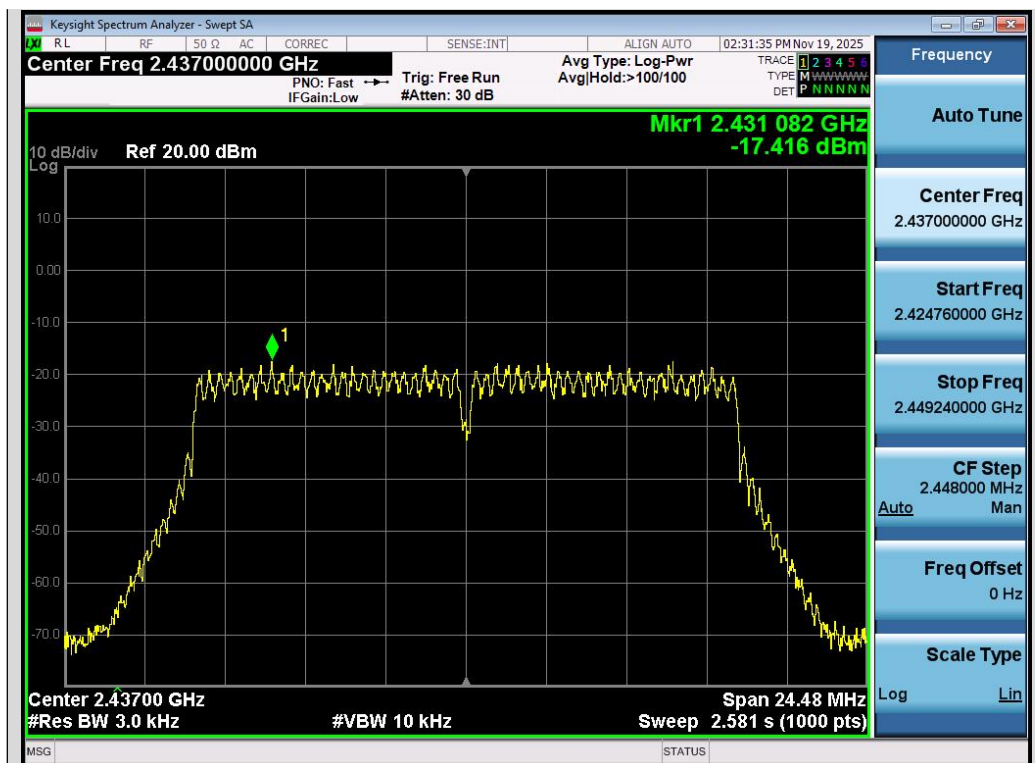
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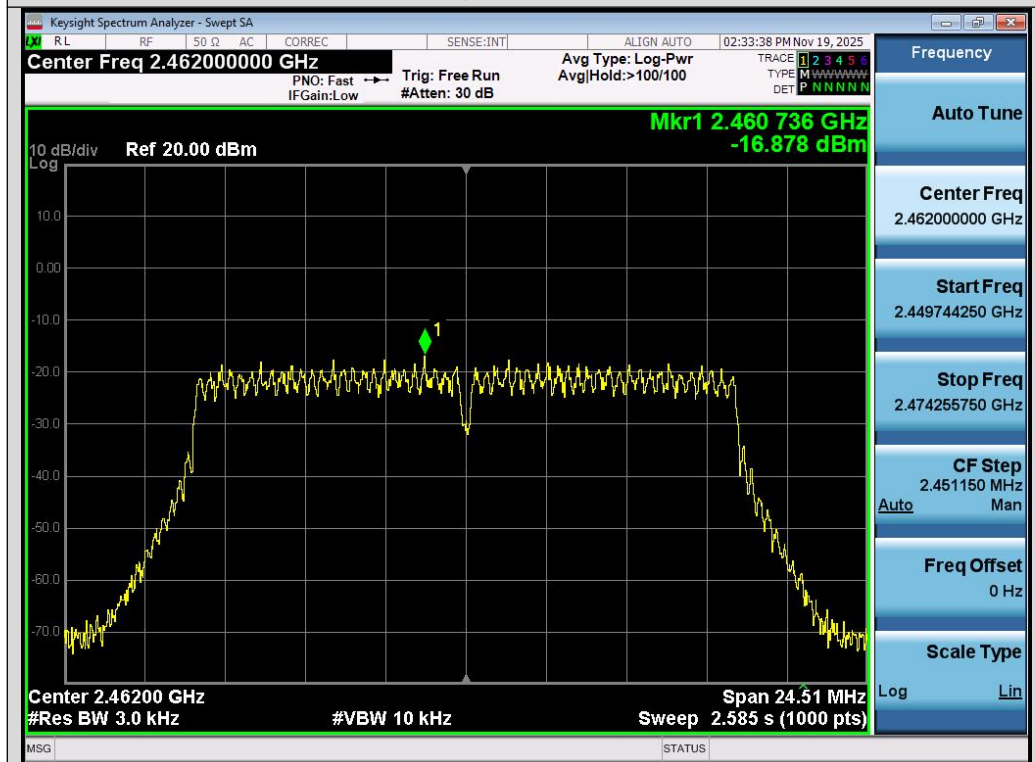
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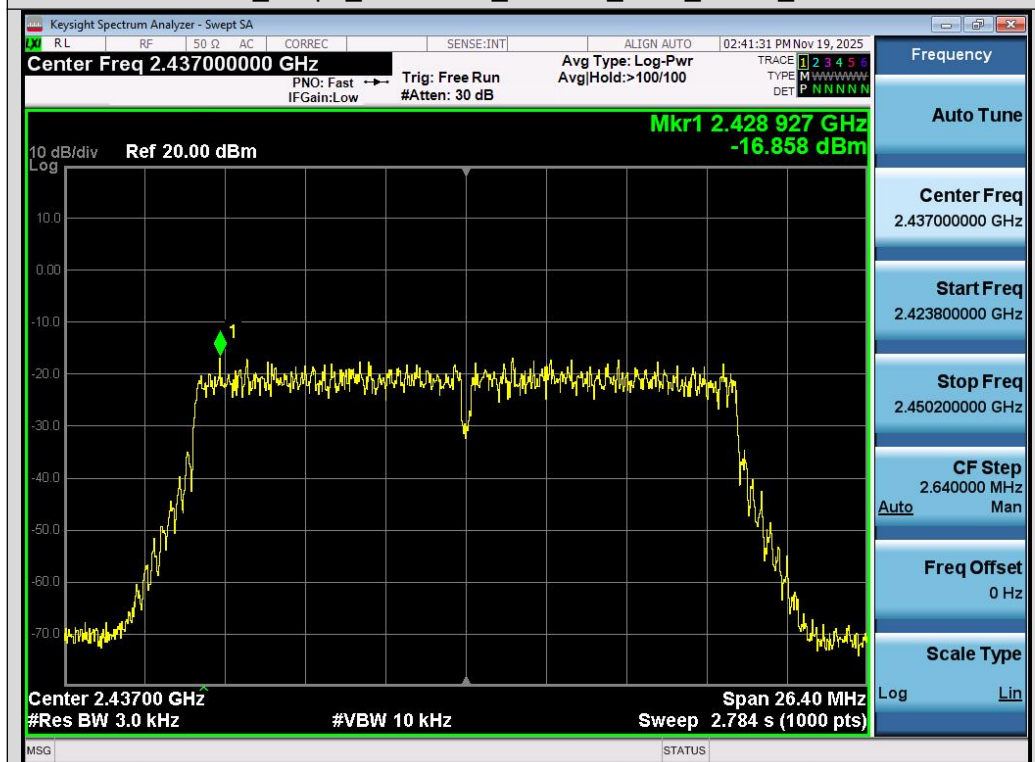
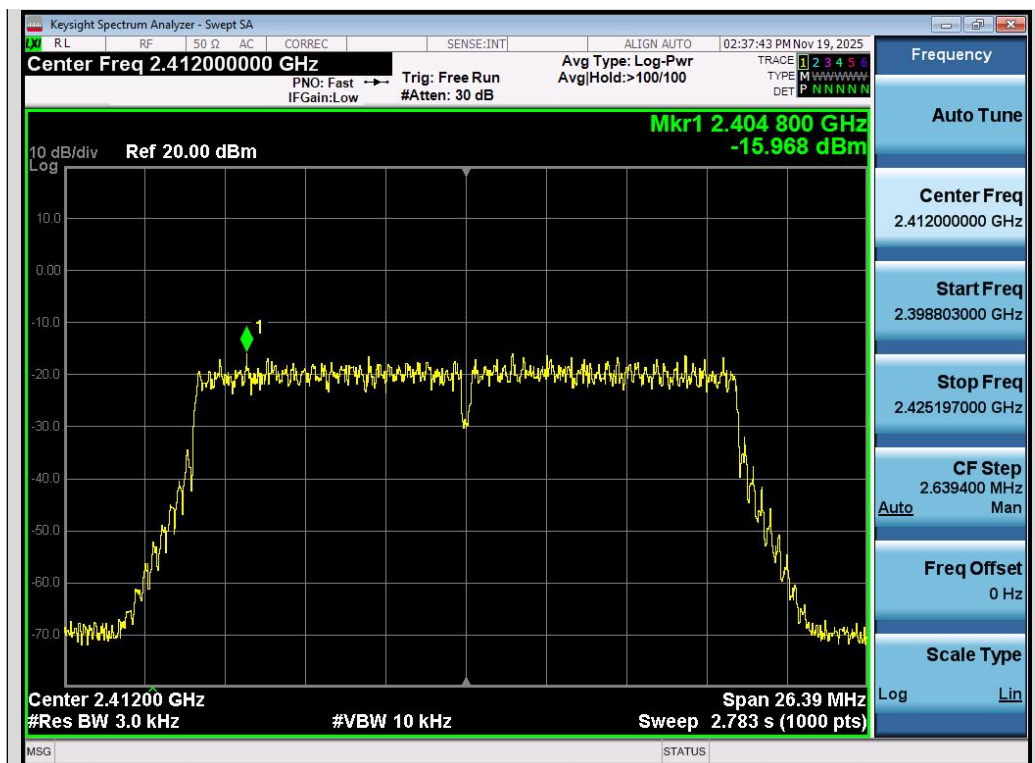
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Test_Graph_802.11g_Chain B_2462_6Mbps_PSD

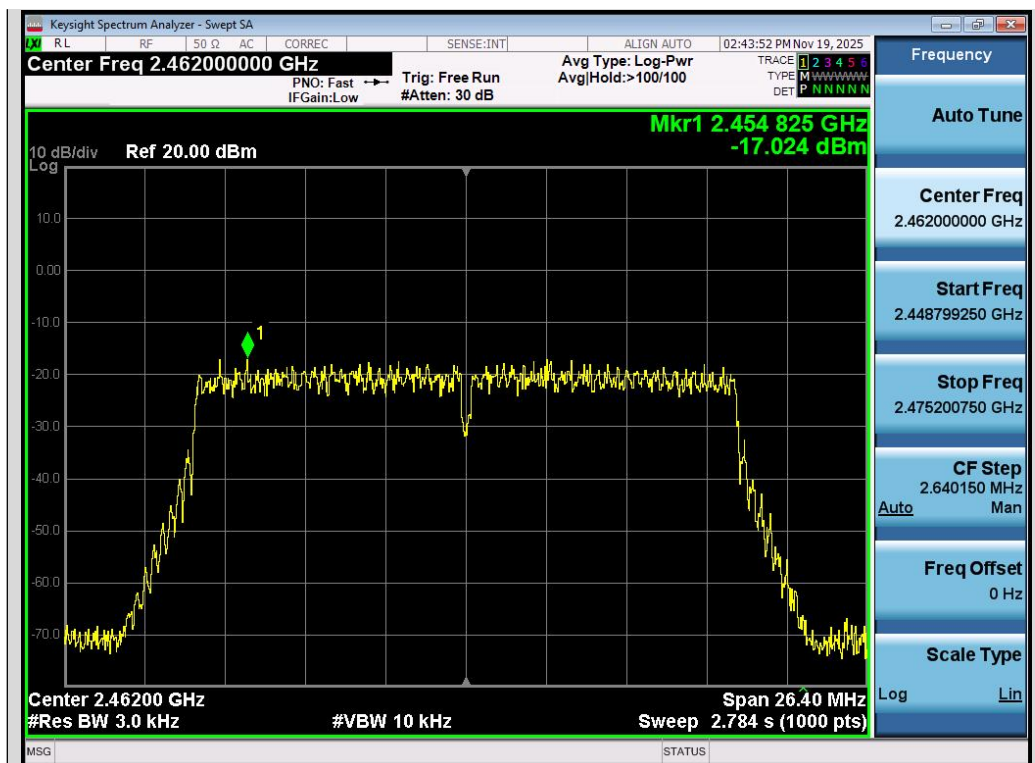
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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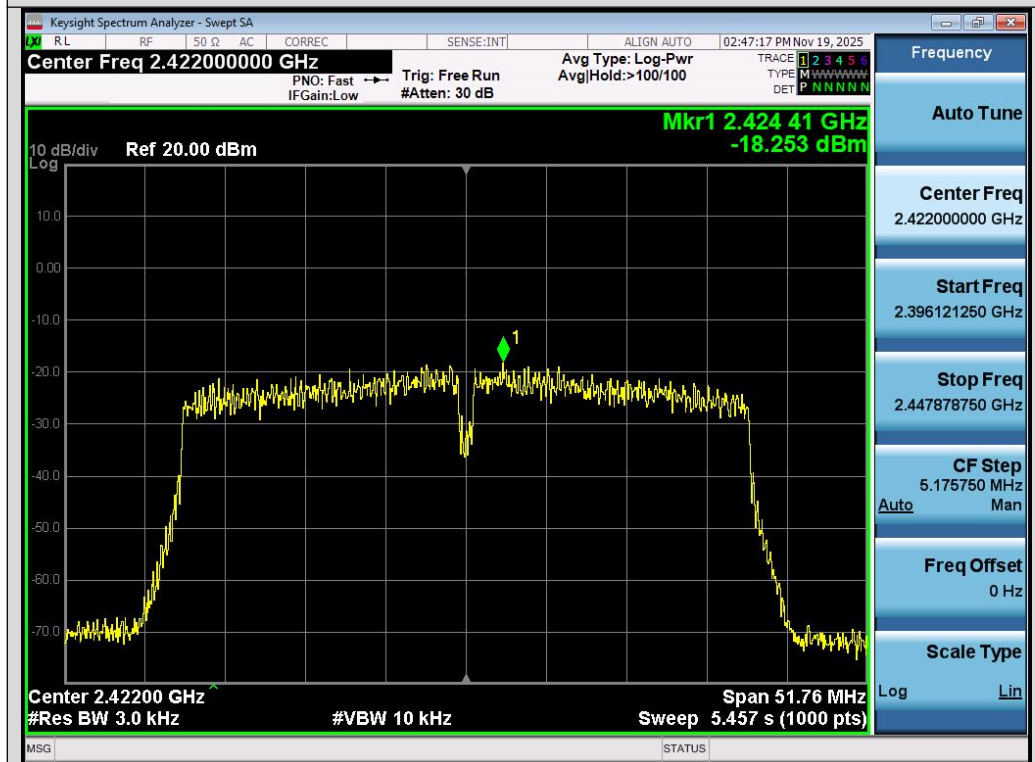


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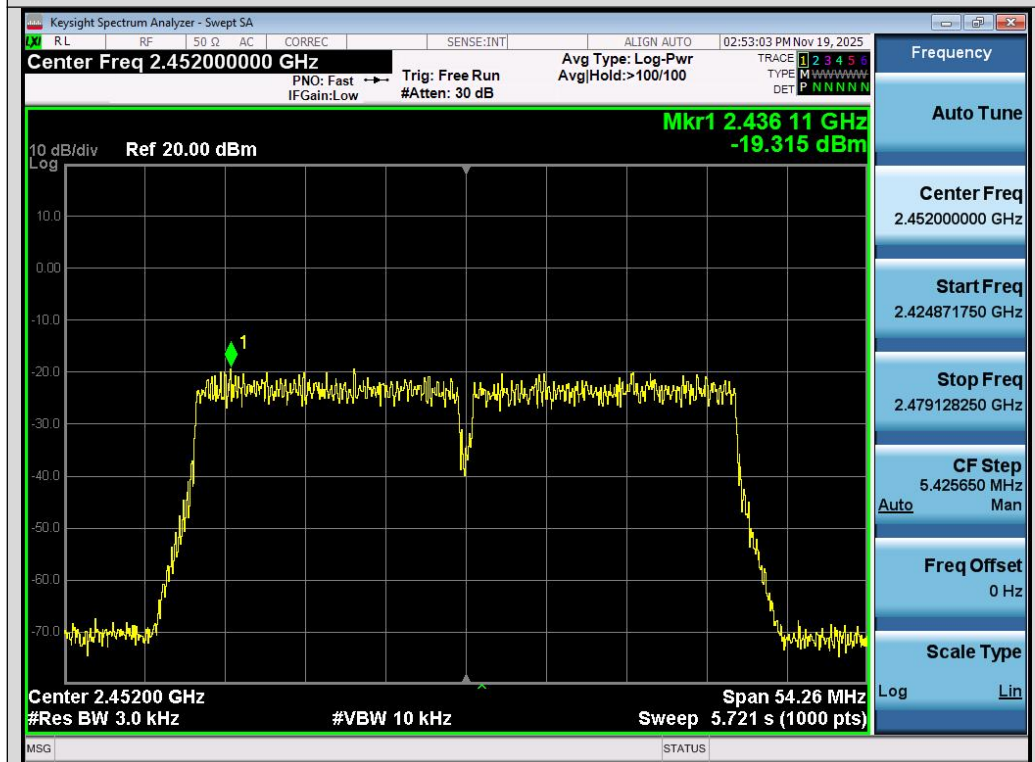
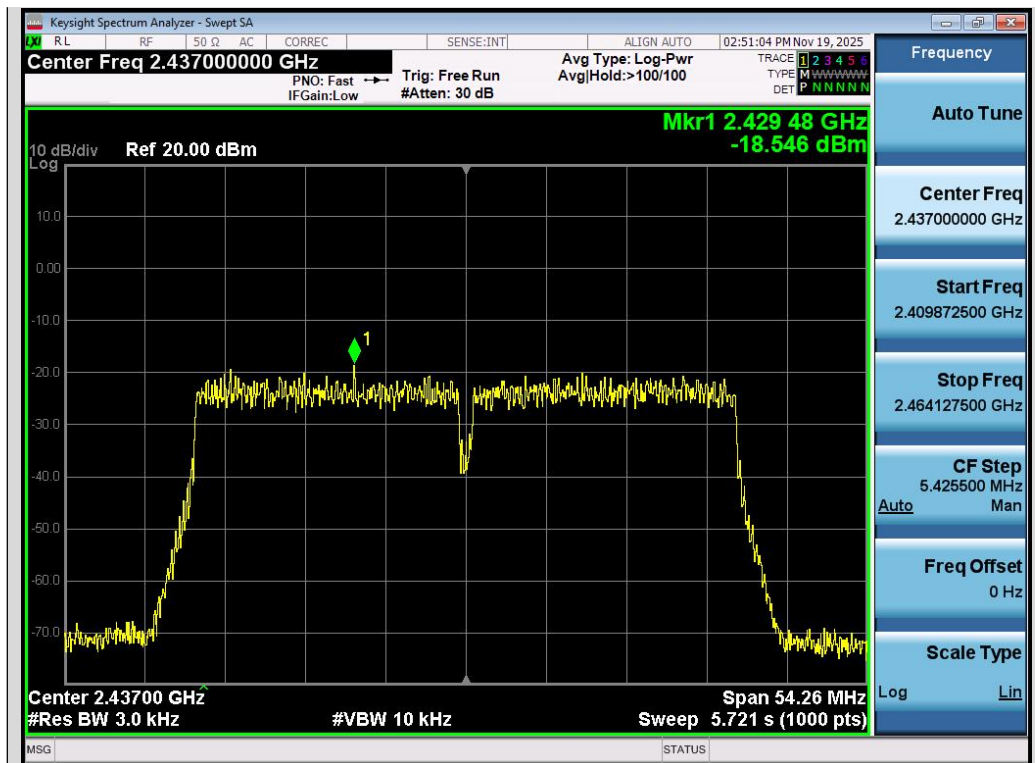
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Test_Graph_802.11n40_Chain B_2422_MCS0_PSD

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