

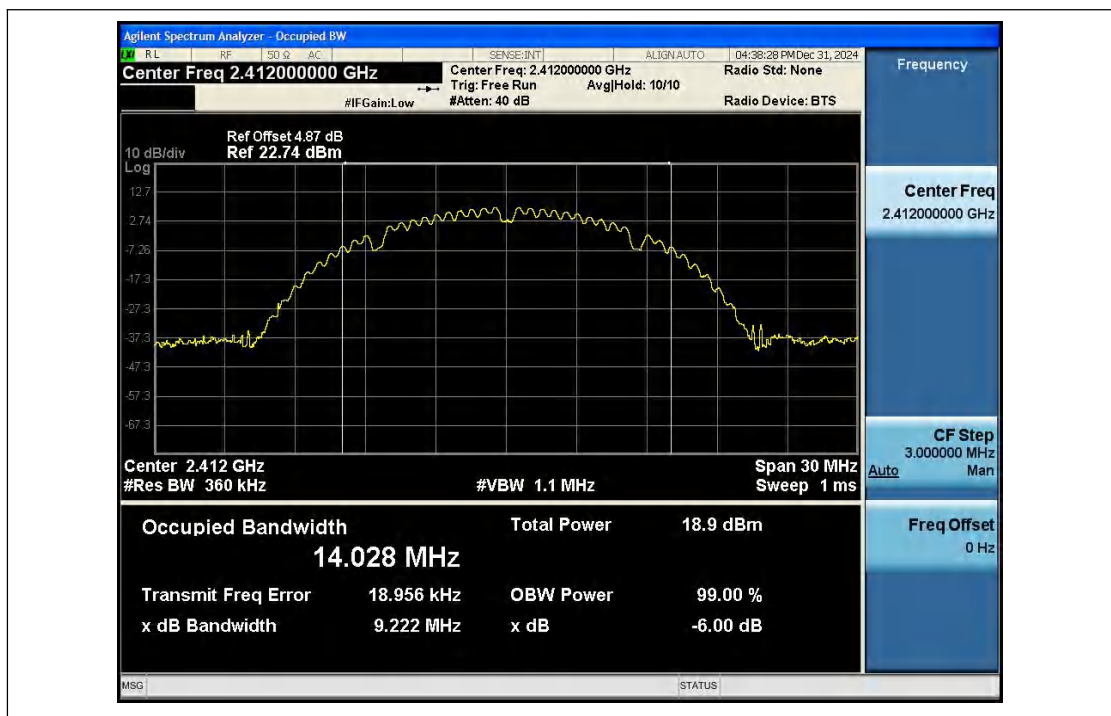
Appendix Test Data

Report No.:	1814C40201212502	Test Sample No.:	1-2-2
Start Test Date:	2024.12.24	Finish Test Date:	2025.1.6
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.4℃	Relative Humidity:	57%
Pressure:	101kPa		

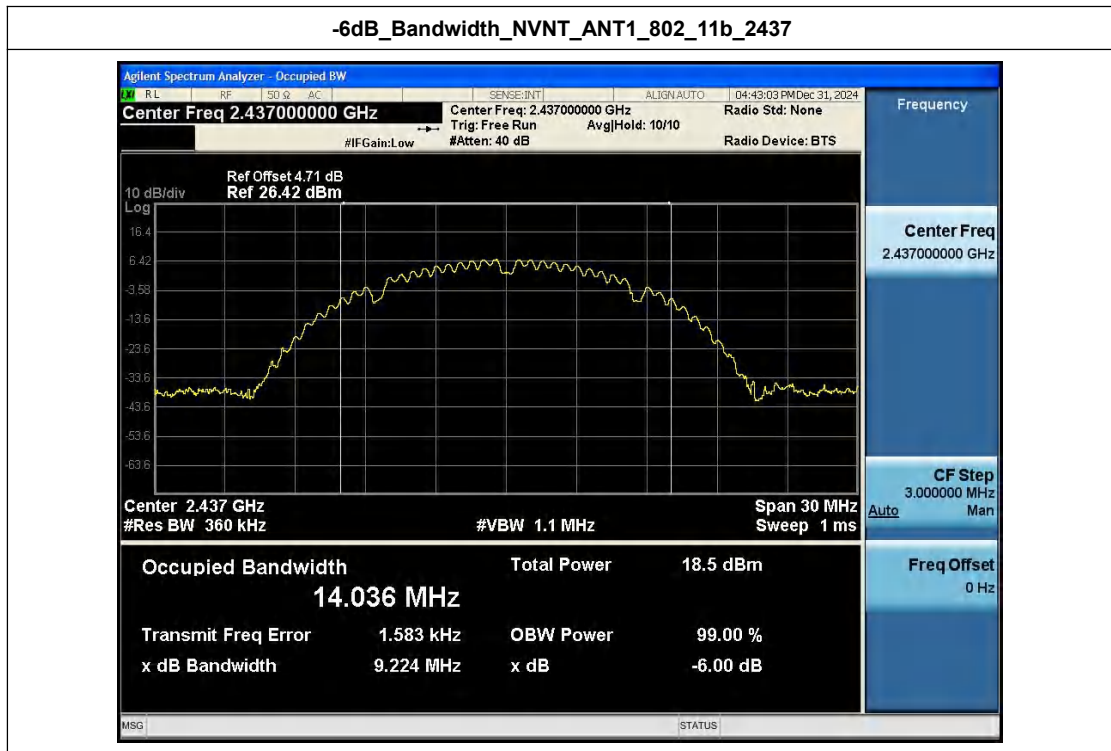
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.22	500	Pass
NVNT	ANT1	802.11b	2437.00	9.22	500	Pass
NVNT	ANT1	802.11b	2462.00	9.24	500	Pass
NVNT	ANT1	802.11g	2412.00	16.46	500	Pass
NVNT	ANT1	802.11g	2437.00	16.44	500	Pass
NVNT	ANT1	802.11g	2462.00	16.49	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.71	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.72	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.66	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



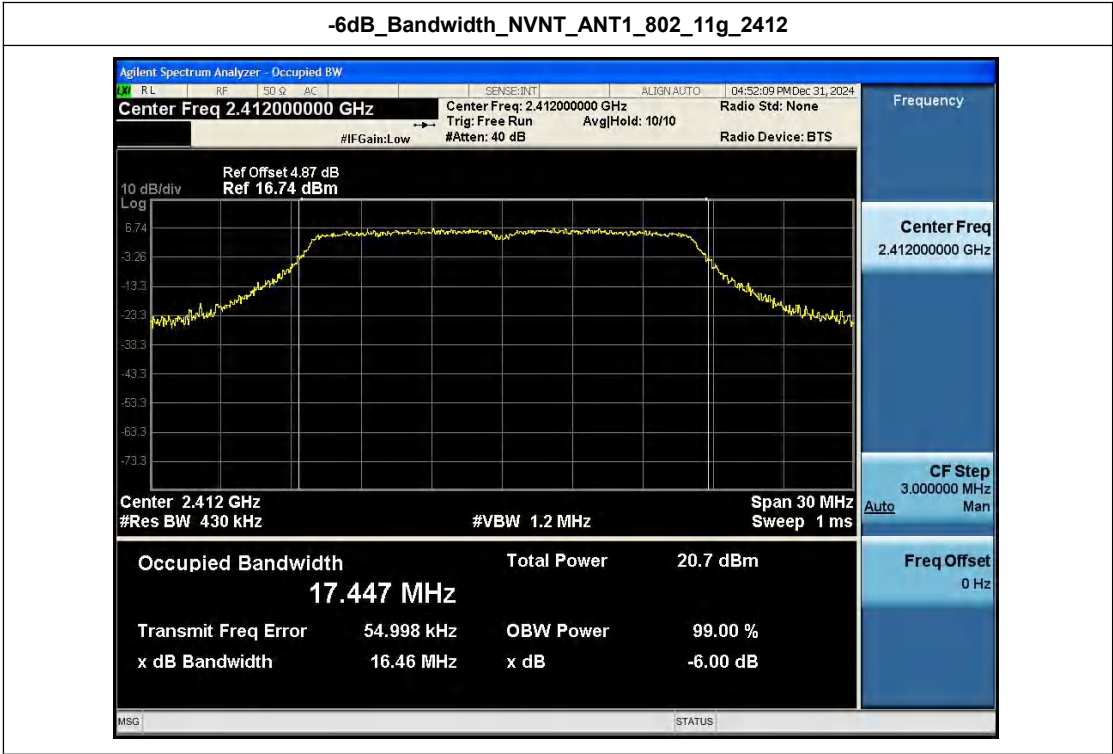
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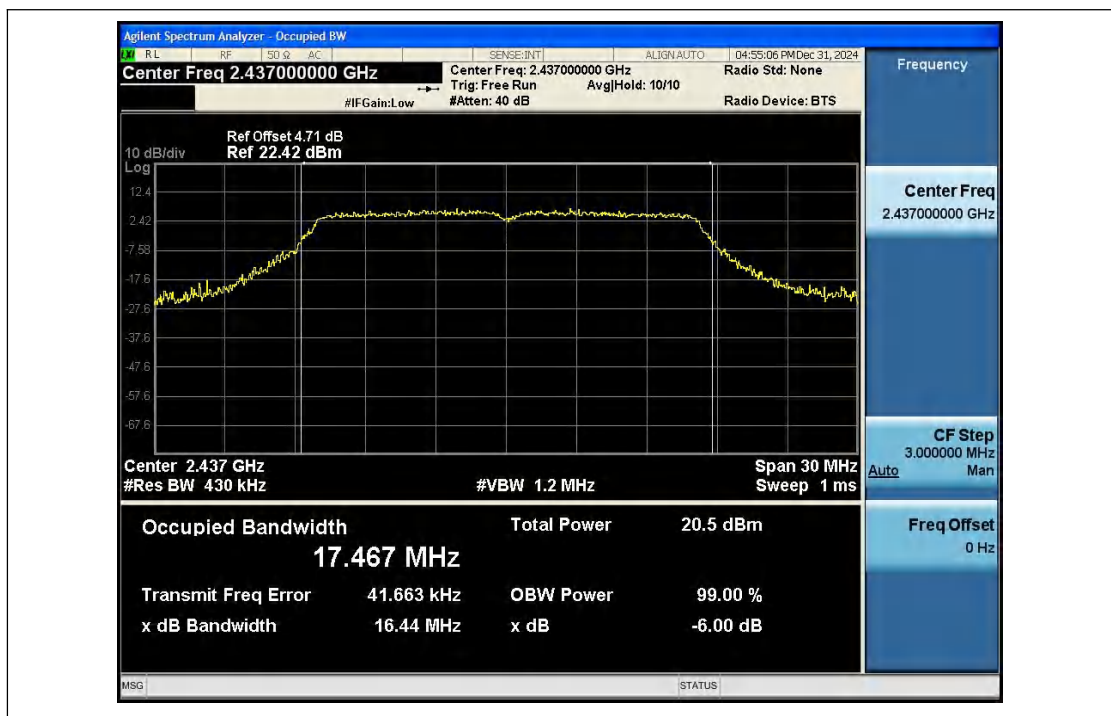
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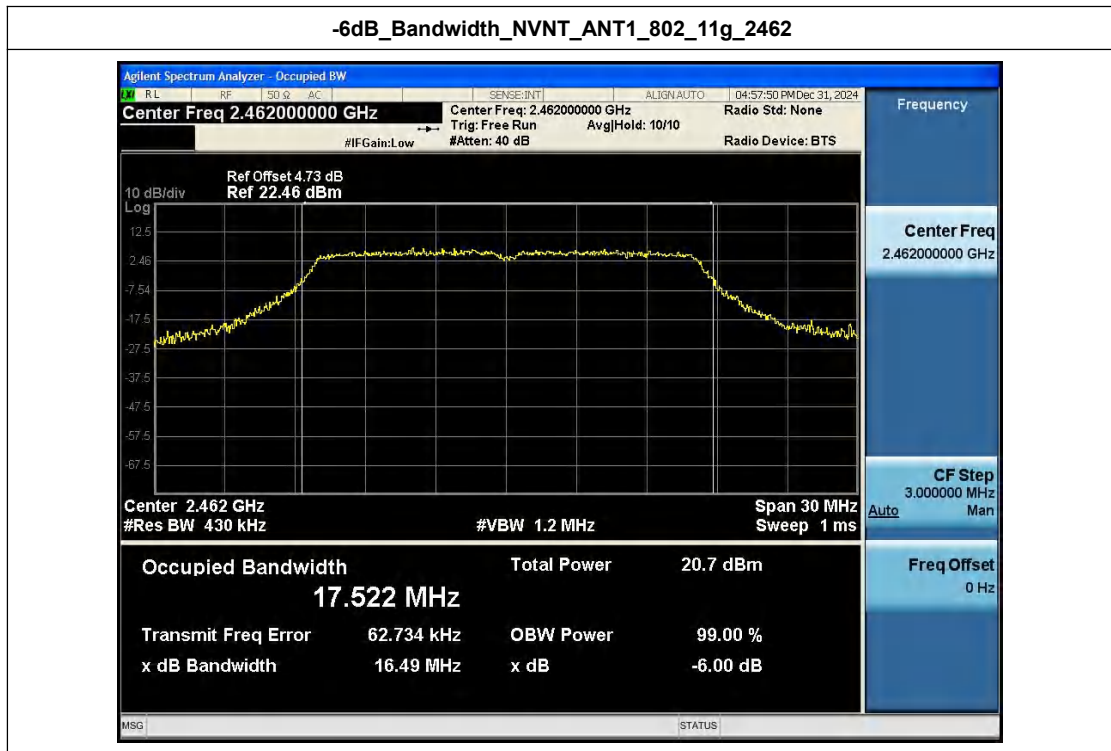
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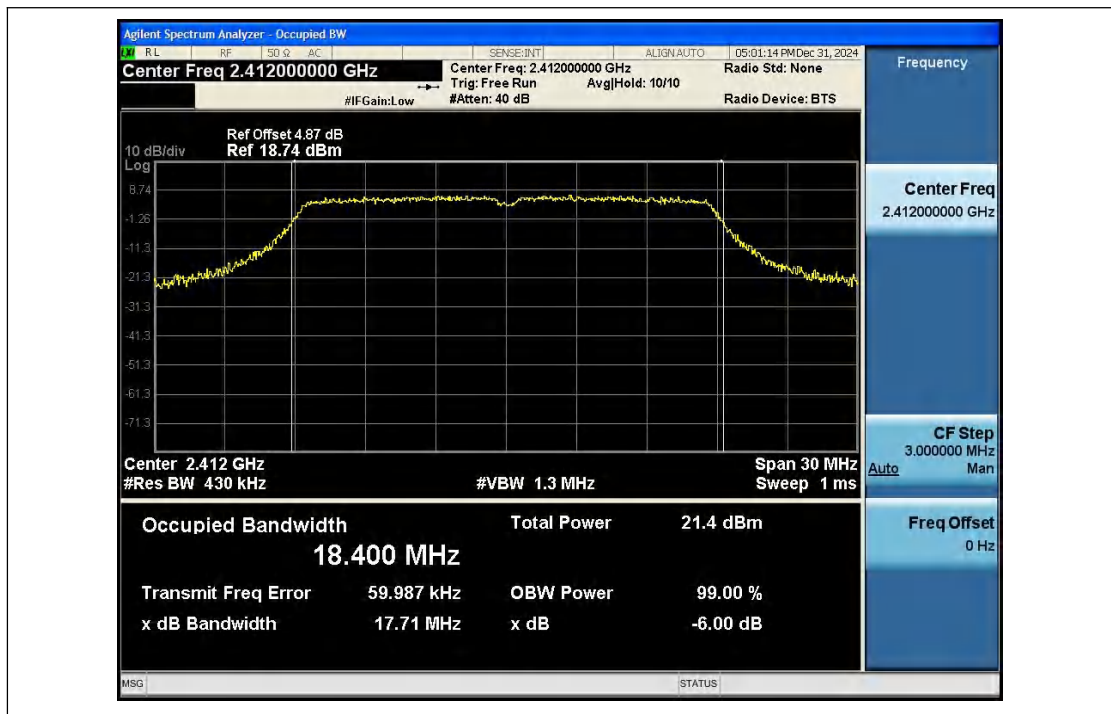
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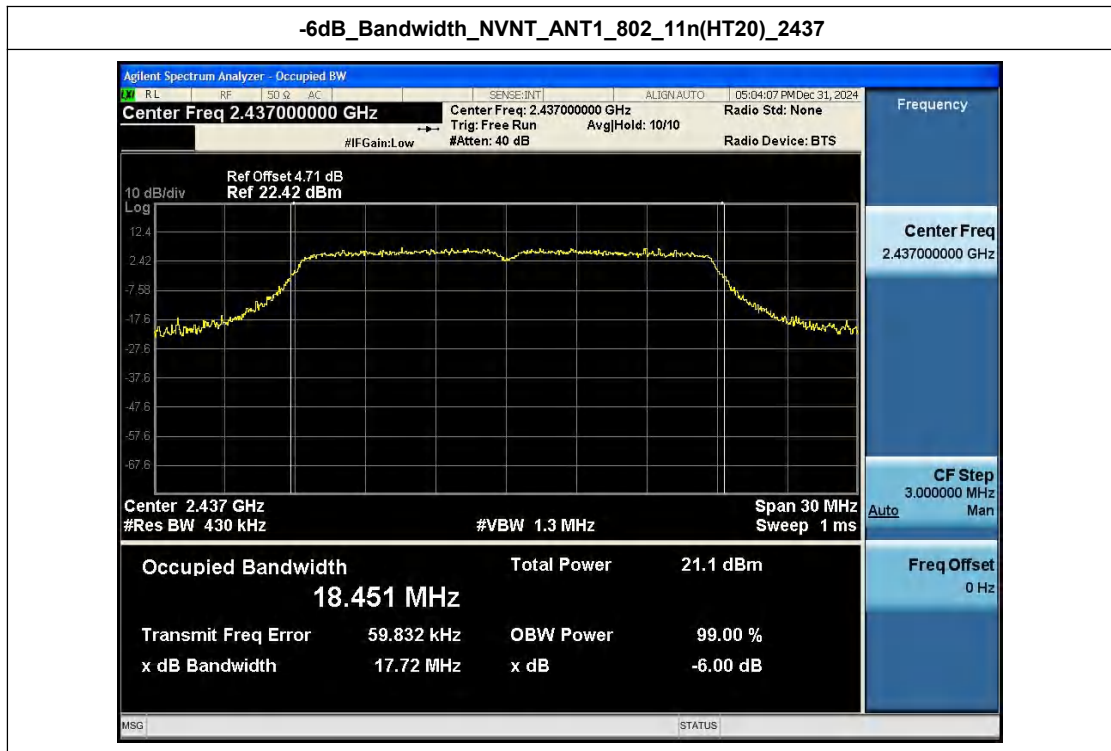
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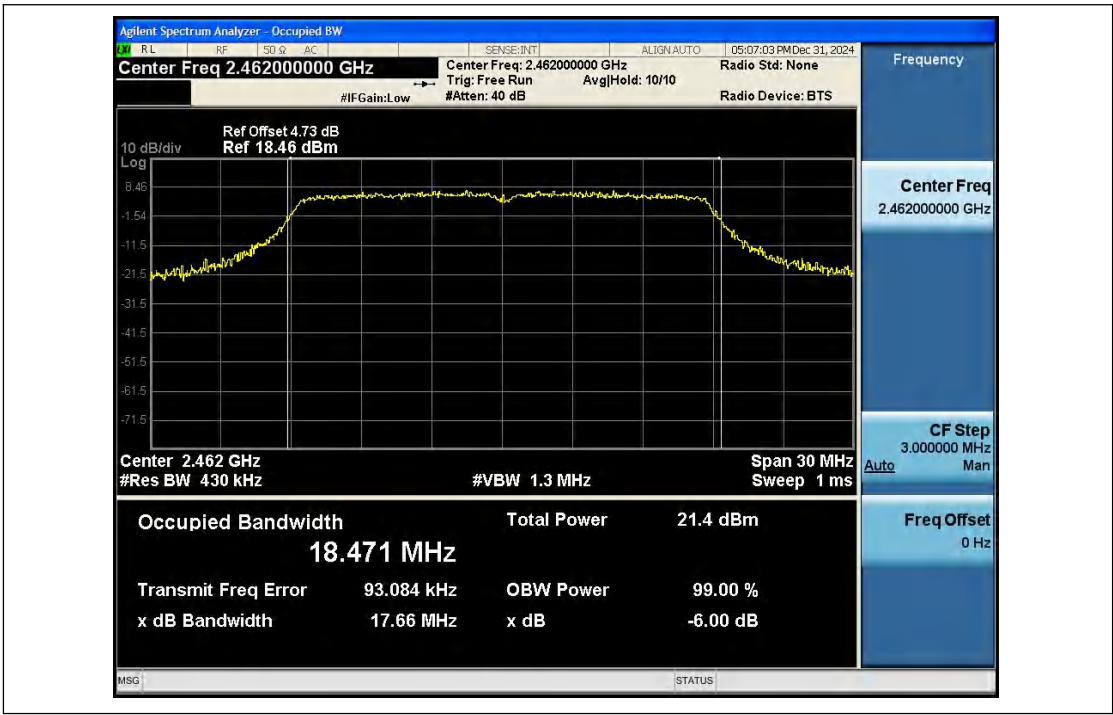
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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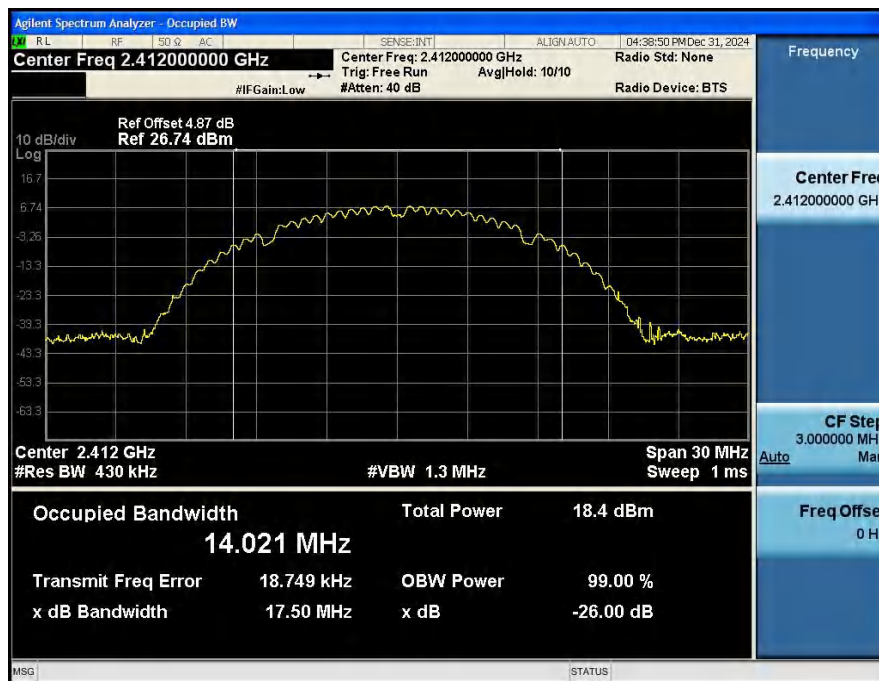
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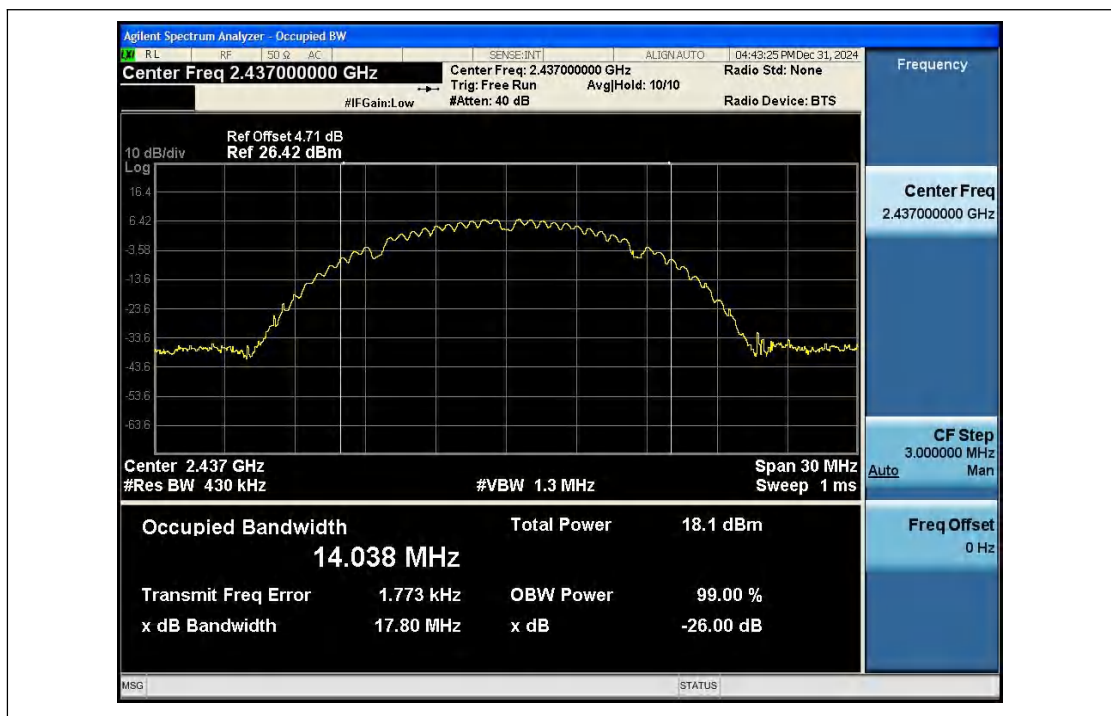
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.021
NVNT	ANT1	802.11b	2437.00	14.038
NVNT	ANT1	802.11b	2462.00	14.083
NVNT	ANT1	802.11g	2412.00	17.671
NVNT	ANT1	802.11g	2437.00	17.726
NVNT	ANT1	802.11g	2462.00	17.707
NVNT	ANT1	802.11n(HT20)	2412.00	18.790
NVNT	ANT1	802.11n(HT20)	2437.00	18.865
NVNT	ANT1	802.11n(HT20)	2462.00	18.813

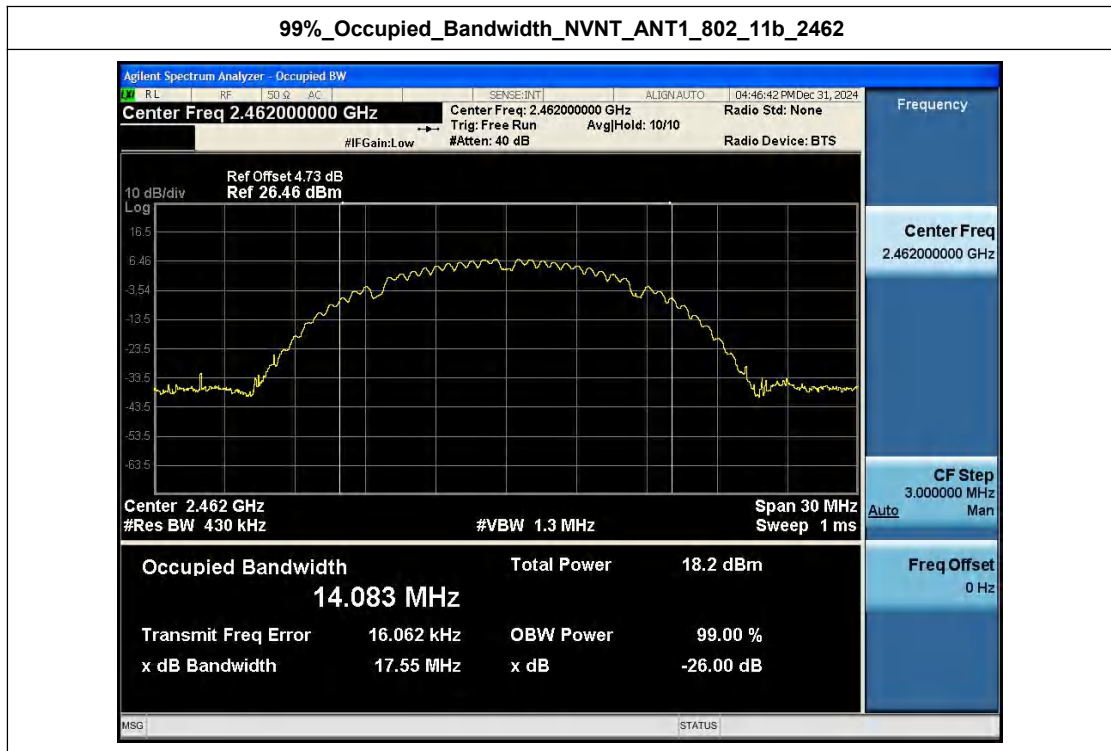
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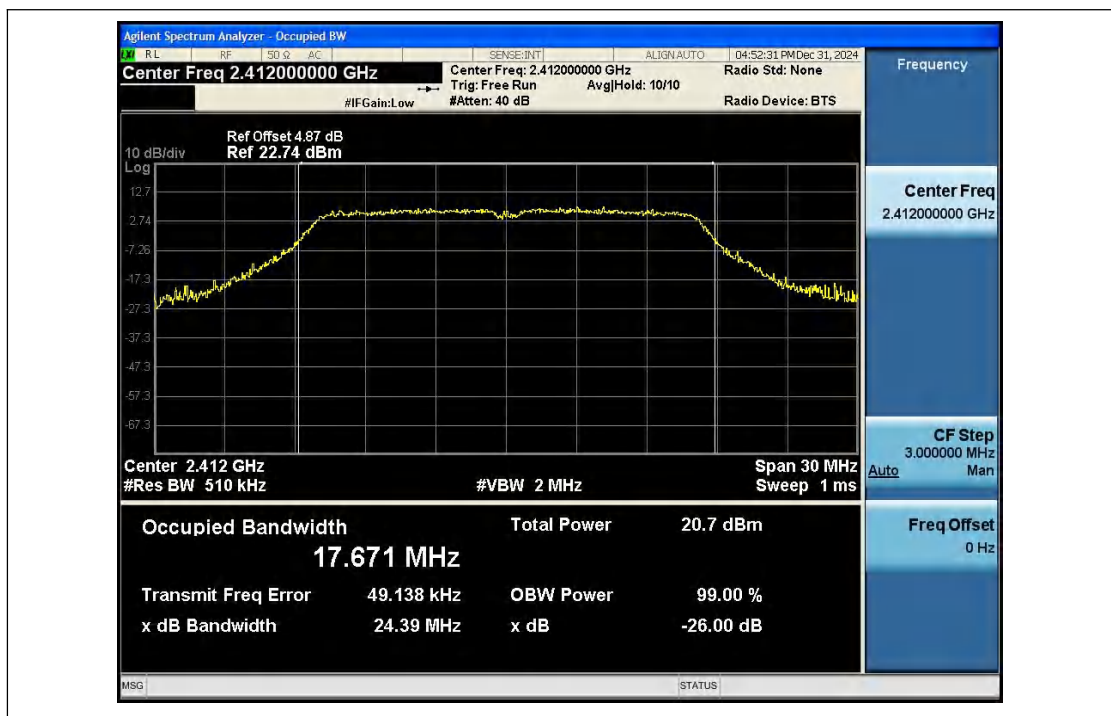
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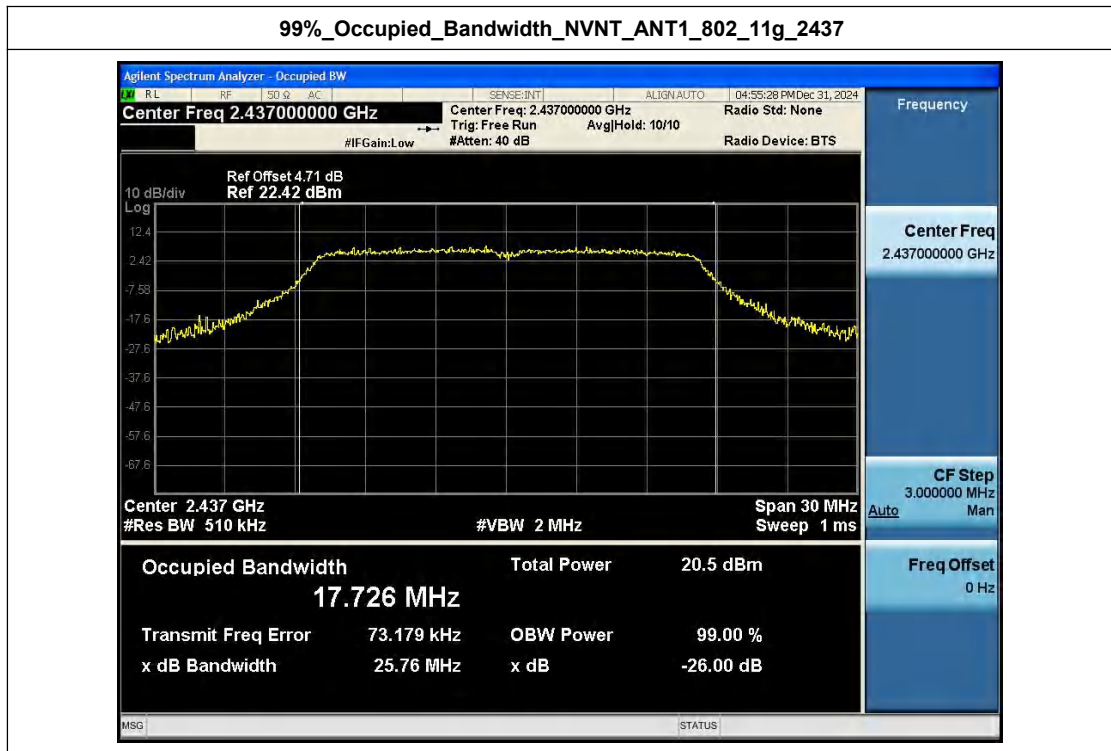
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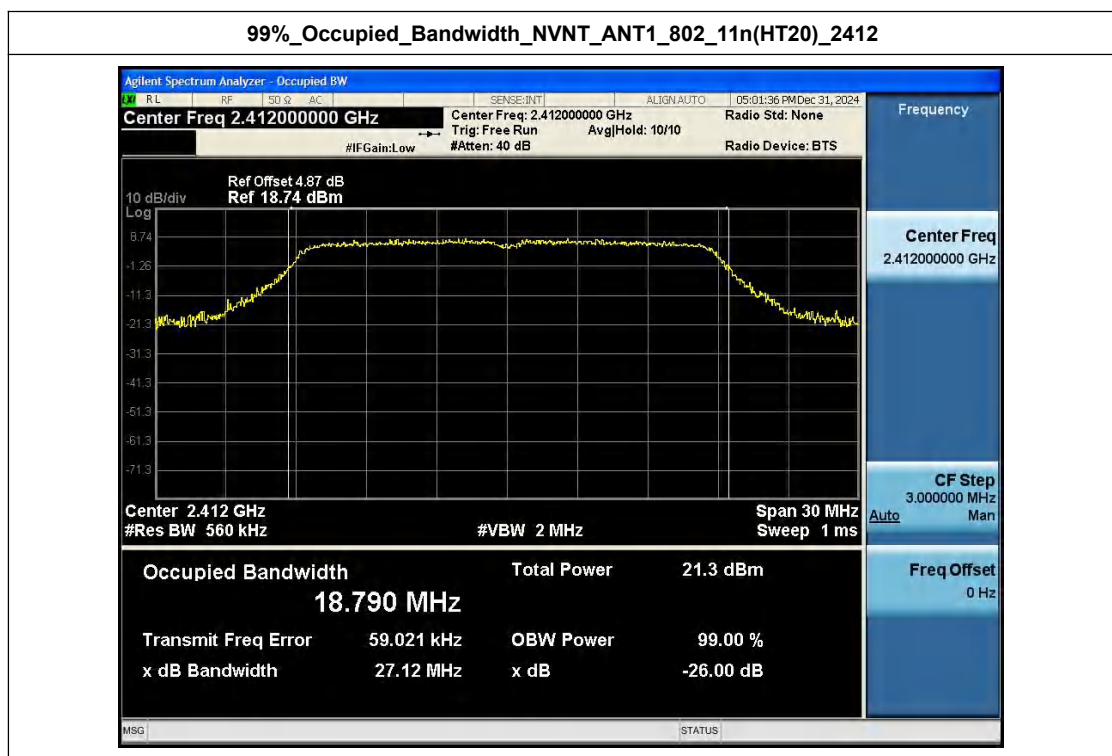
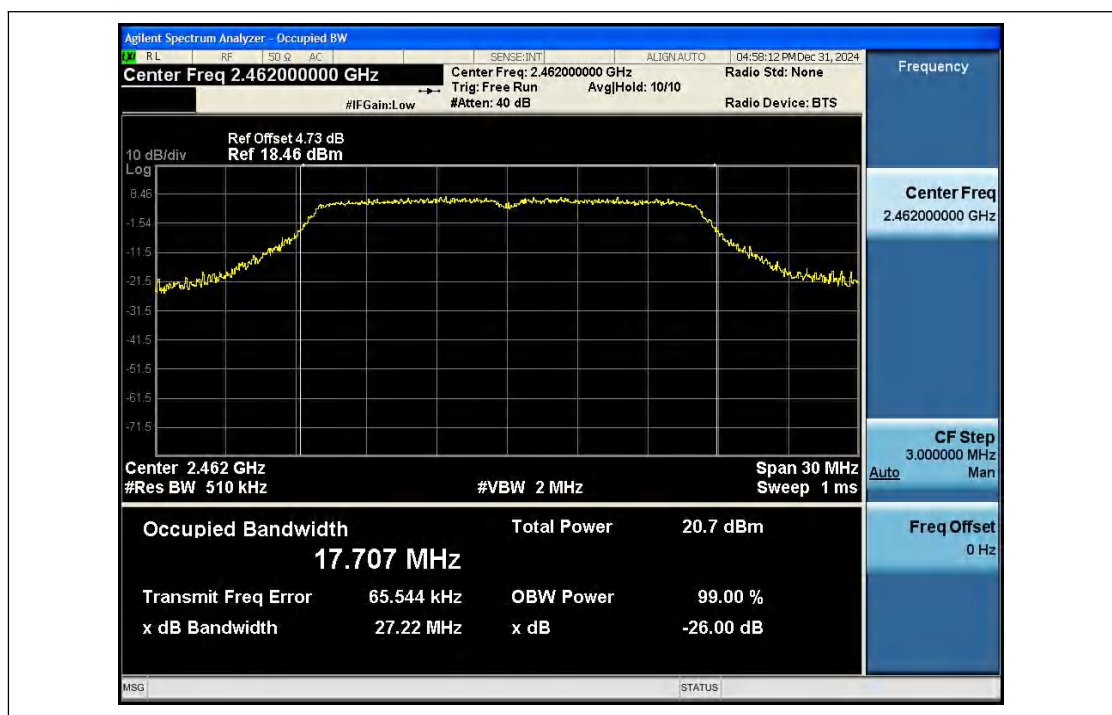
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



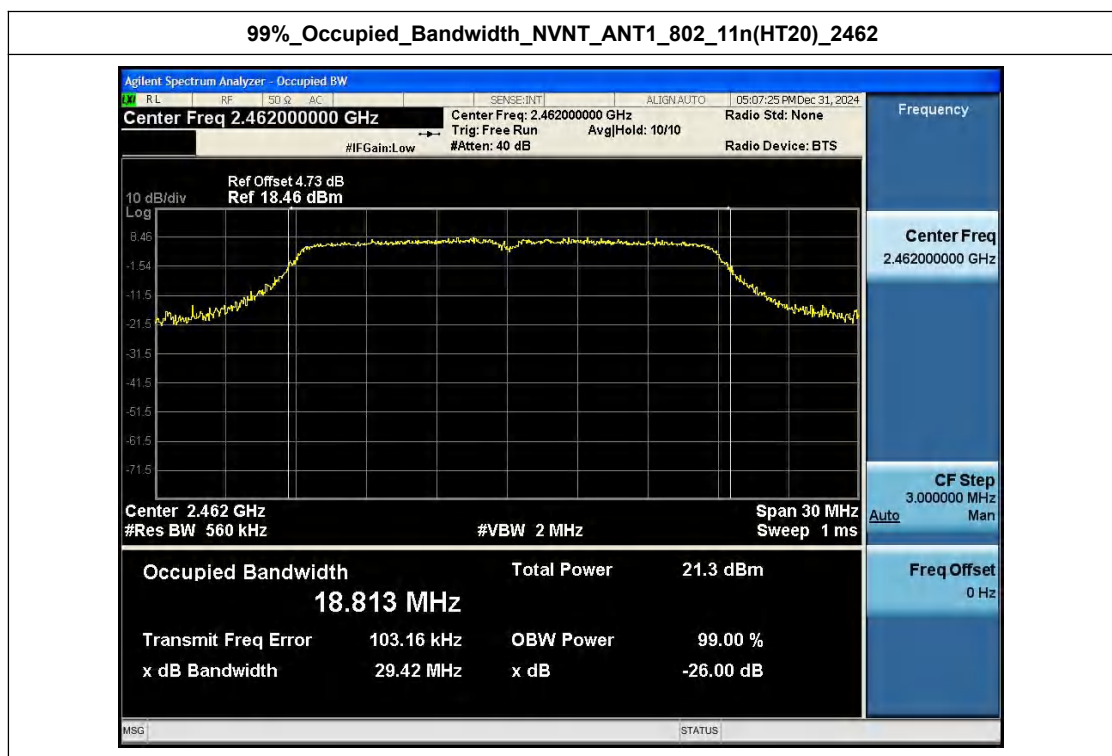
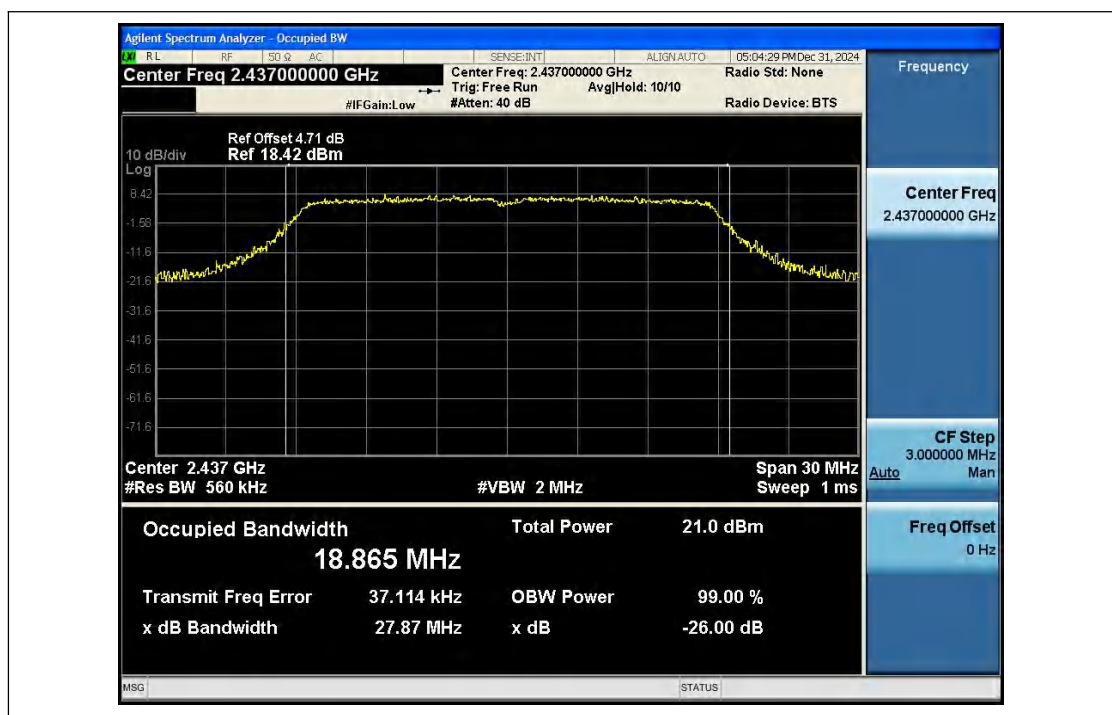
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



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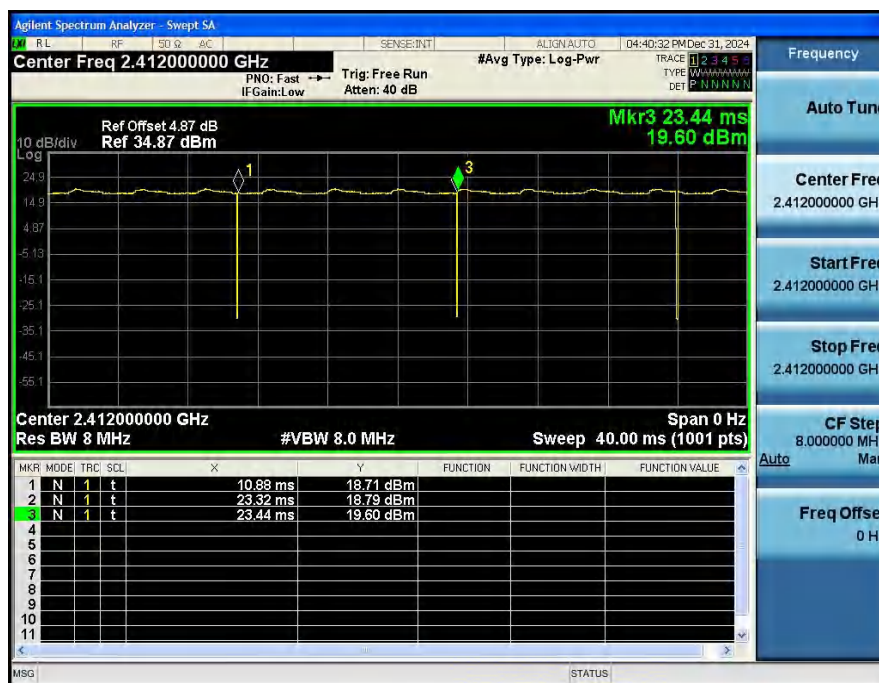


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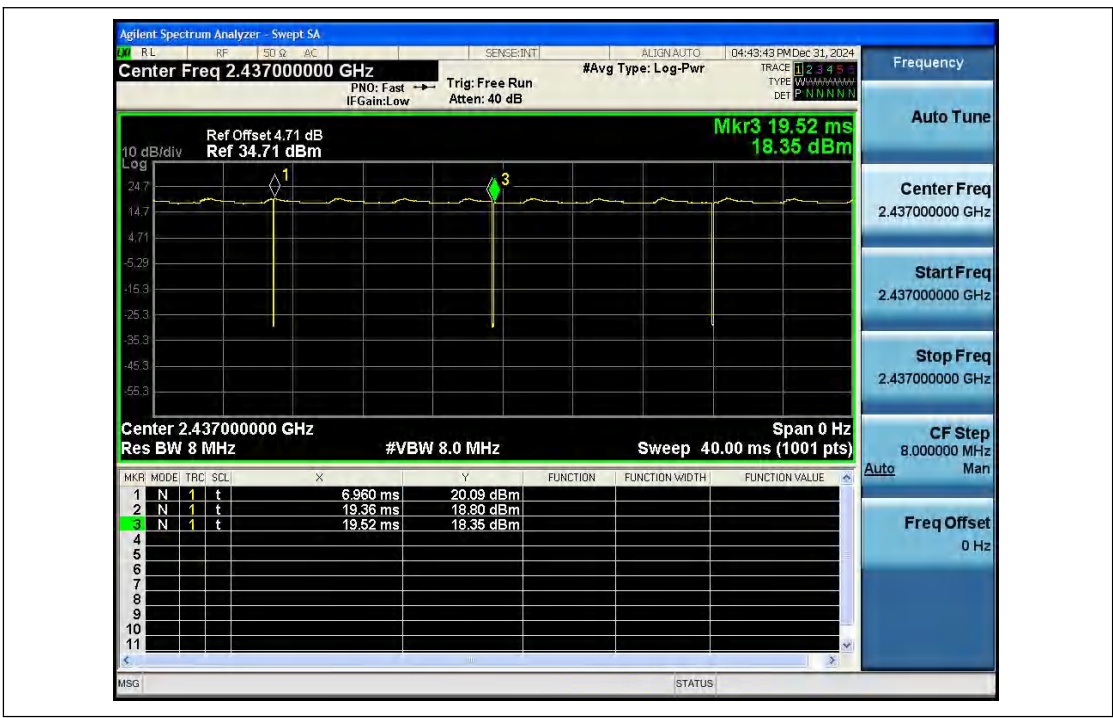
Appendix C: Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.36	0.00
NVNT	ANT1	802.11b	2437.00	99.04	0.00
NVNT	ANT1	802.11b	2462.00	99.04	0.00
NVNT	ANT1	802.11g	2412.00	94.55	0.24
NVNT	ANT1	802.11g	2437.00	94.55	0.24
NVNT	ANT1	802.11g	2462.00	94.55	0.24
NVNT	ANT1	802.11n(HT20)	2412.00	95.10	0.22
NVNT	ANT1	802.11n(HT20)	2437.00	94.17	0.26
NVNT	ANT1	802.11n(HT20)	2462.00	95.10	0.22

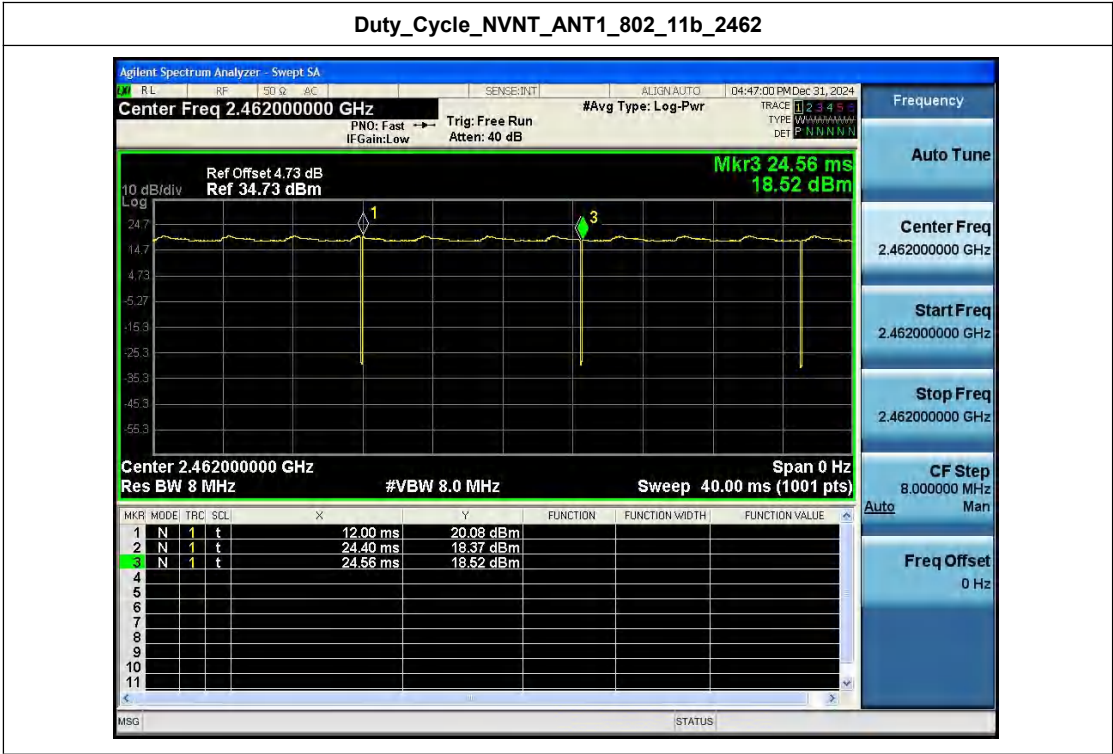
Duty_Cycle_NVNT_ANT1_802_11b_2412



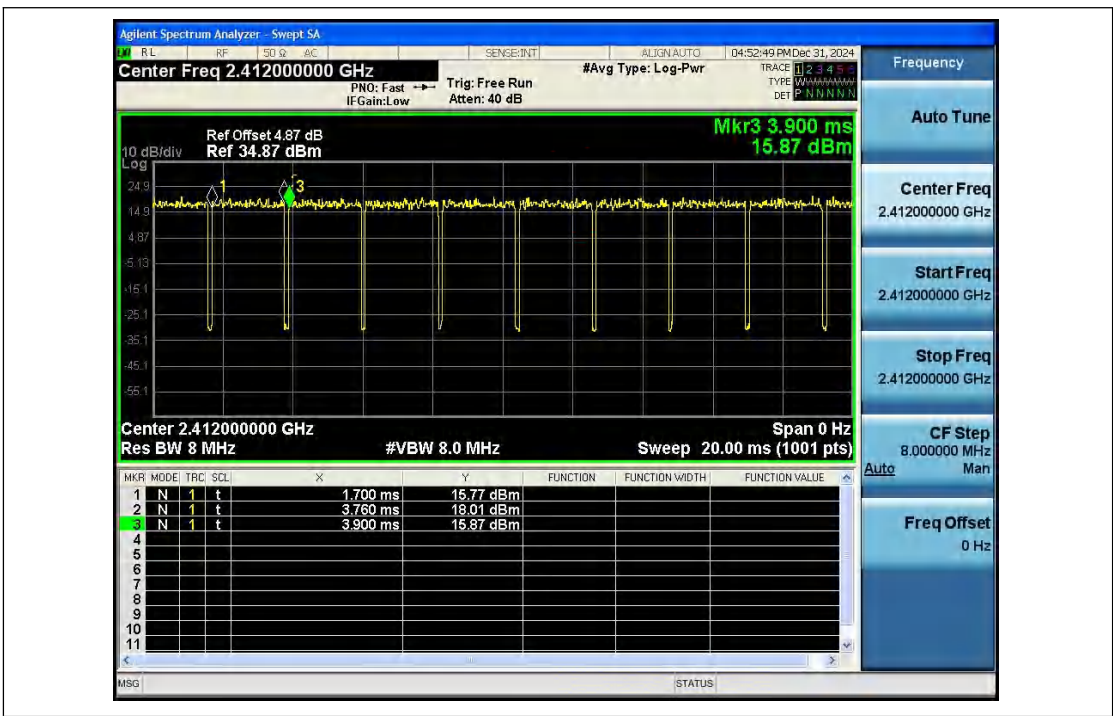
Duty_Cycle_NVNT_ANT1_802_11b_2437



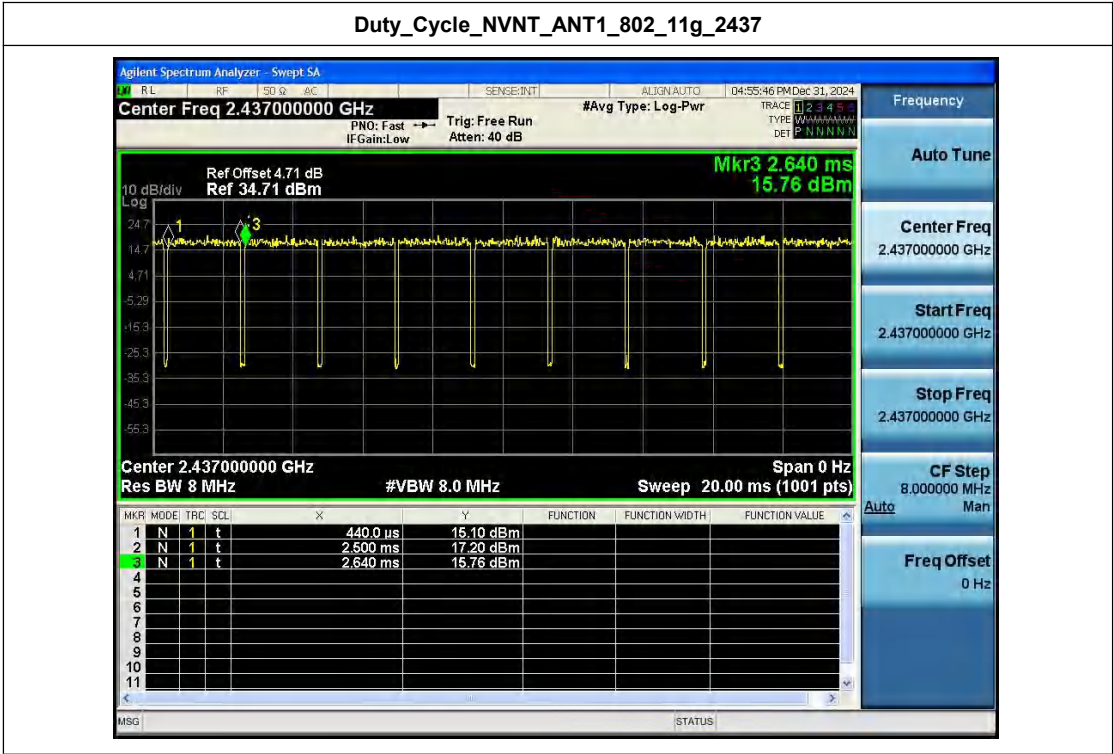
Duty_Cycle_NVNT_ANT1_802_11b_2462



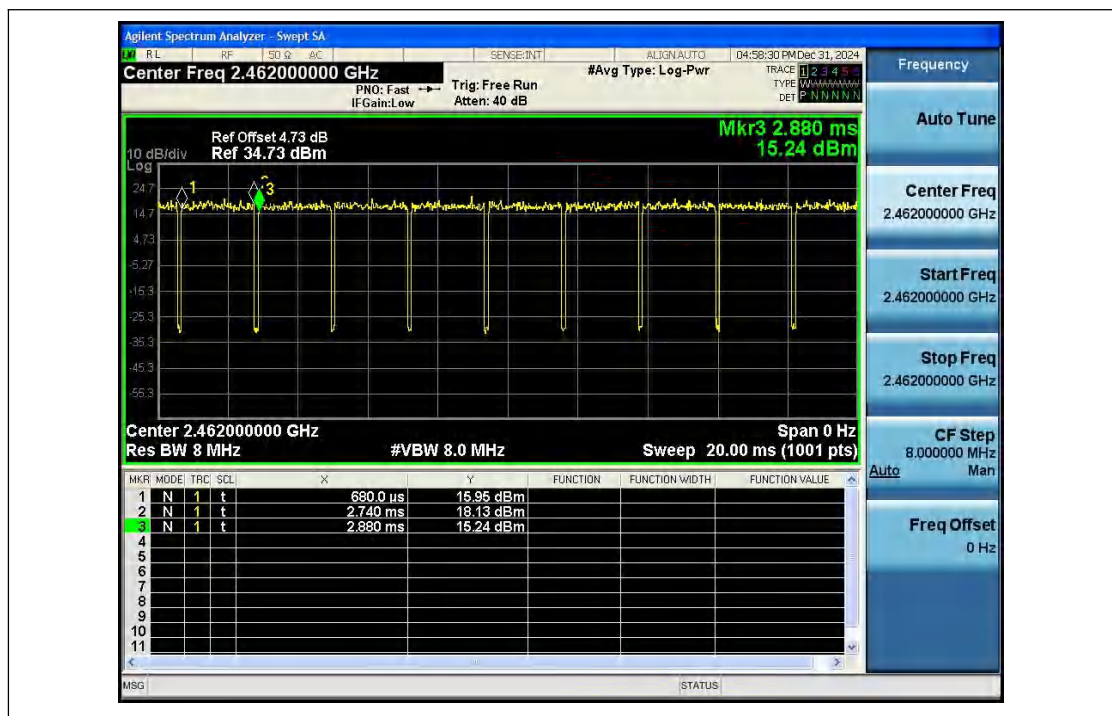
Duty_Cycle_NVNT_ANT1_802_11g_2412



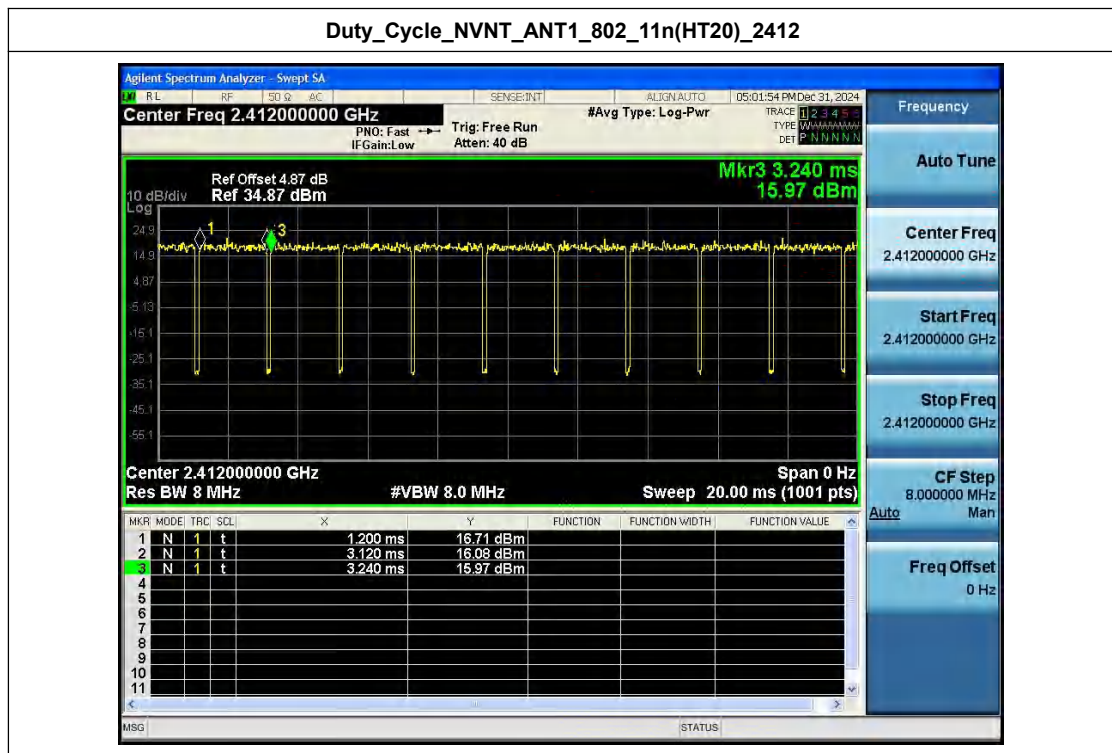
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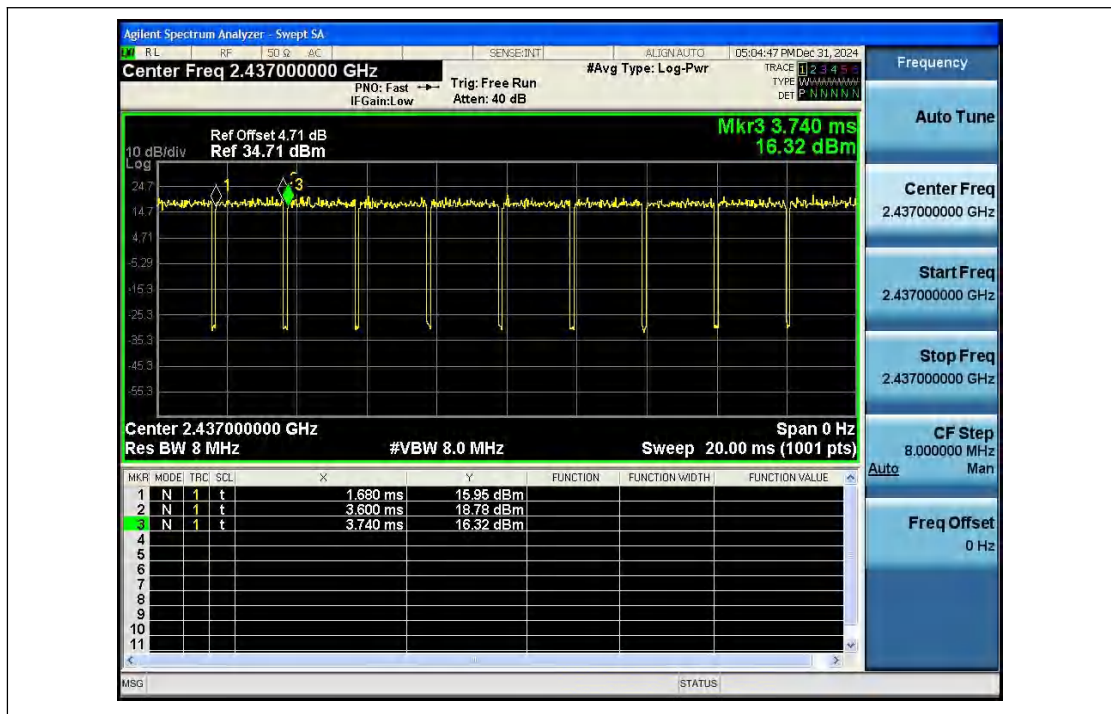
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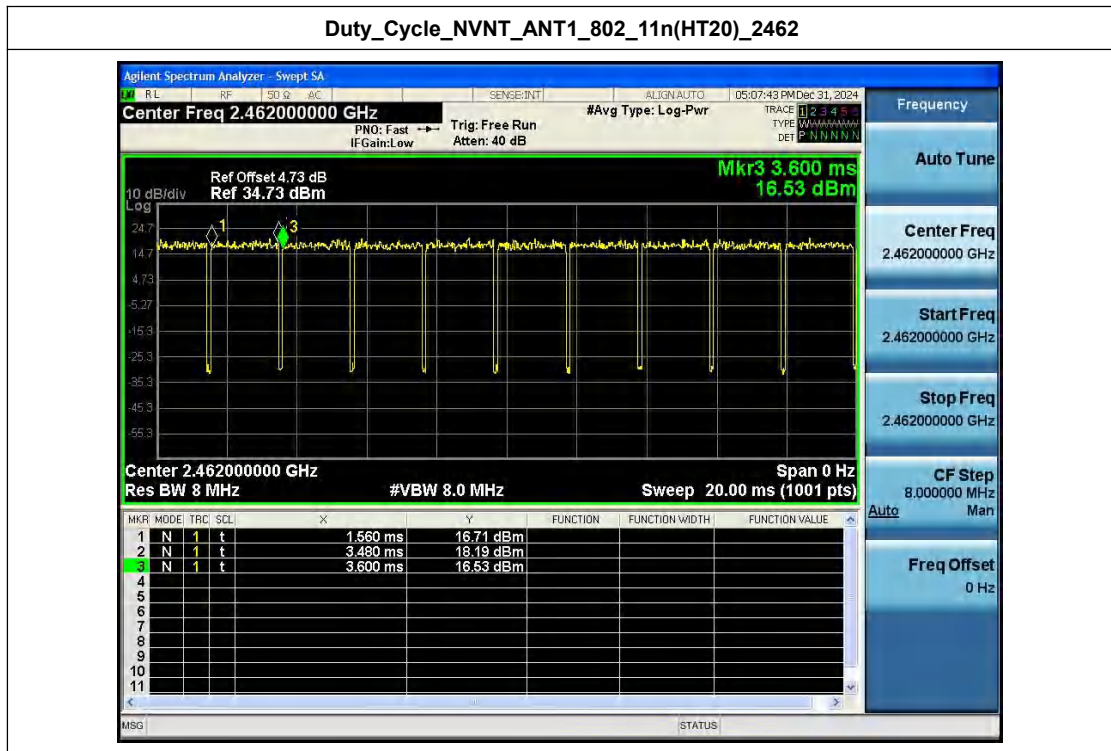
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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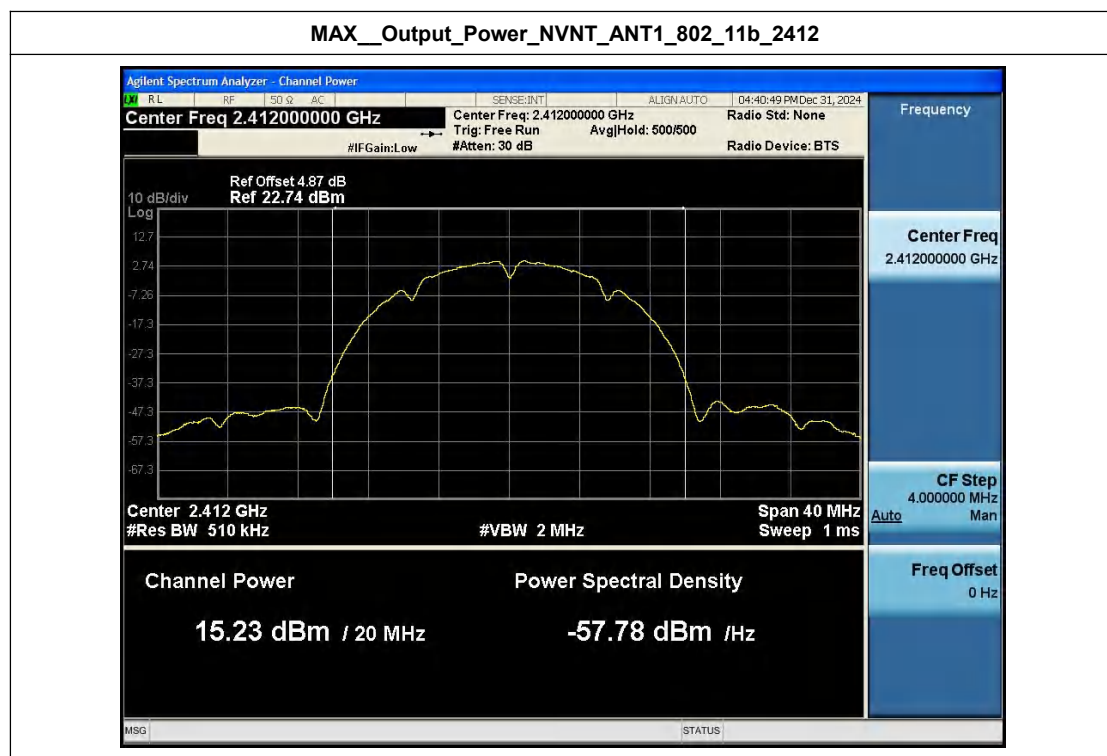
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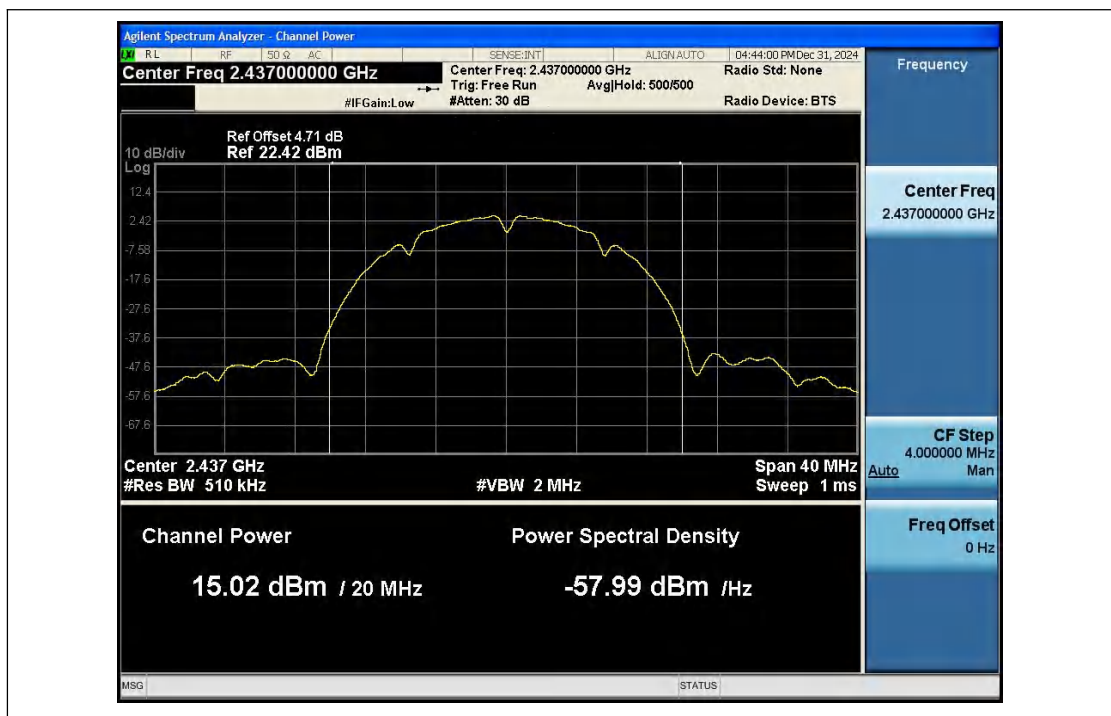
Appendix D: MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	15.23	0.00	15.23	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	15.02	0.00	15.02	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	15.17	0.00	15.17	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.47	0.24	13.71	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.20	0.24	13.44	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	13.44	0.24	13.68	30	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	RMS	14.07	0.22	14.29	30	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	RMS	13.81	0.26	14.07	30	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	RMS	14.08	0.22	14.30	30	Pass

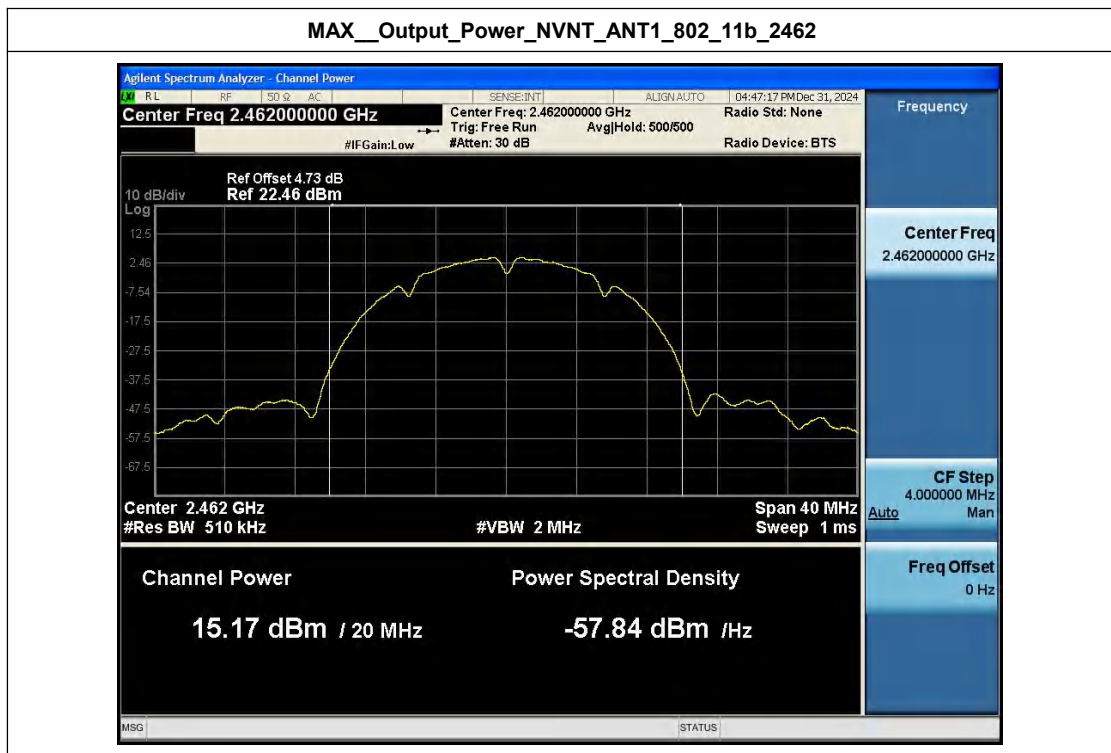
Note: The cable loss are compensated in the graph



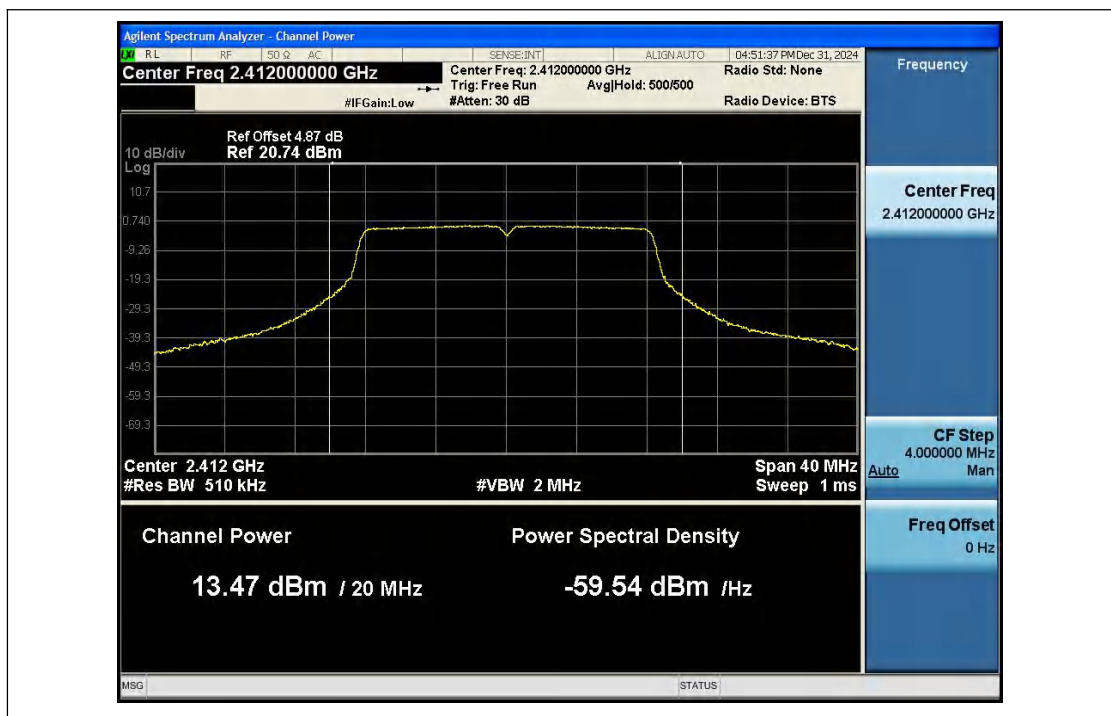
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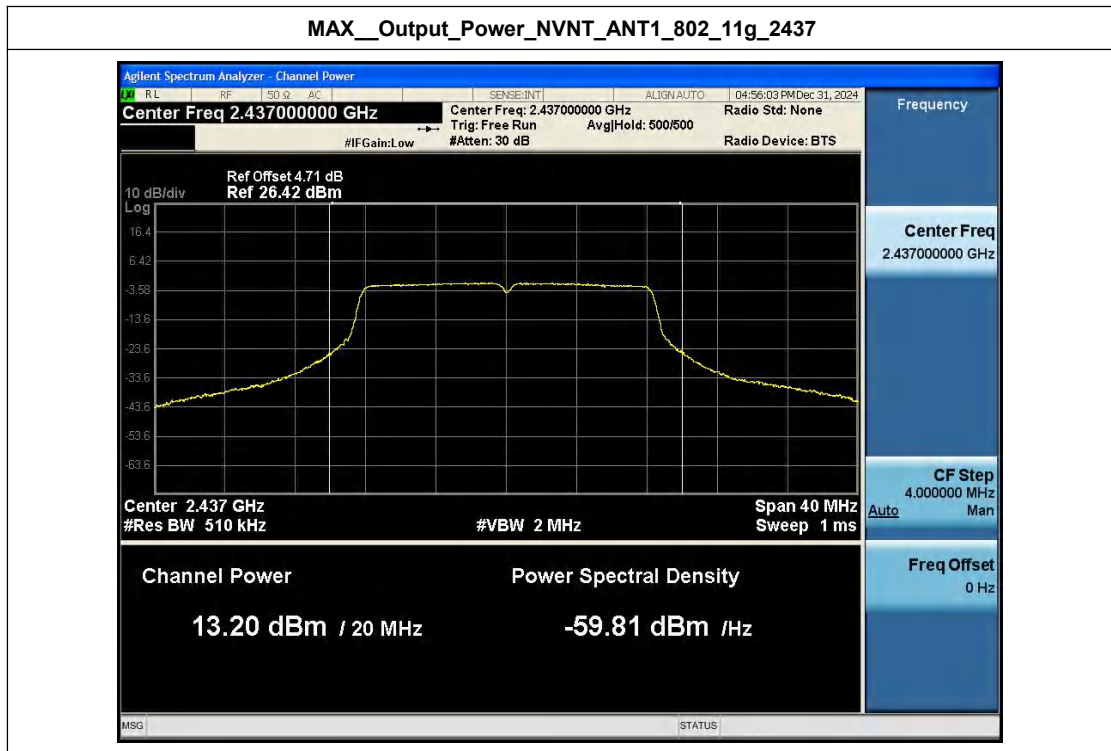
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MAX__Output_Power_NVNT_ANT1_802_11g_2412



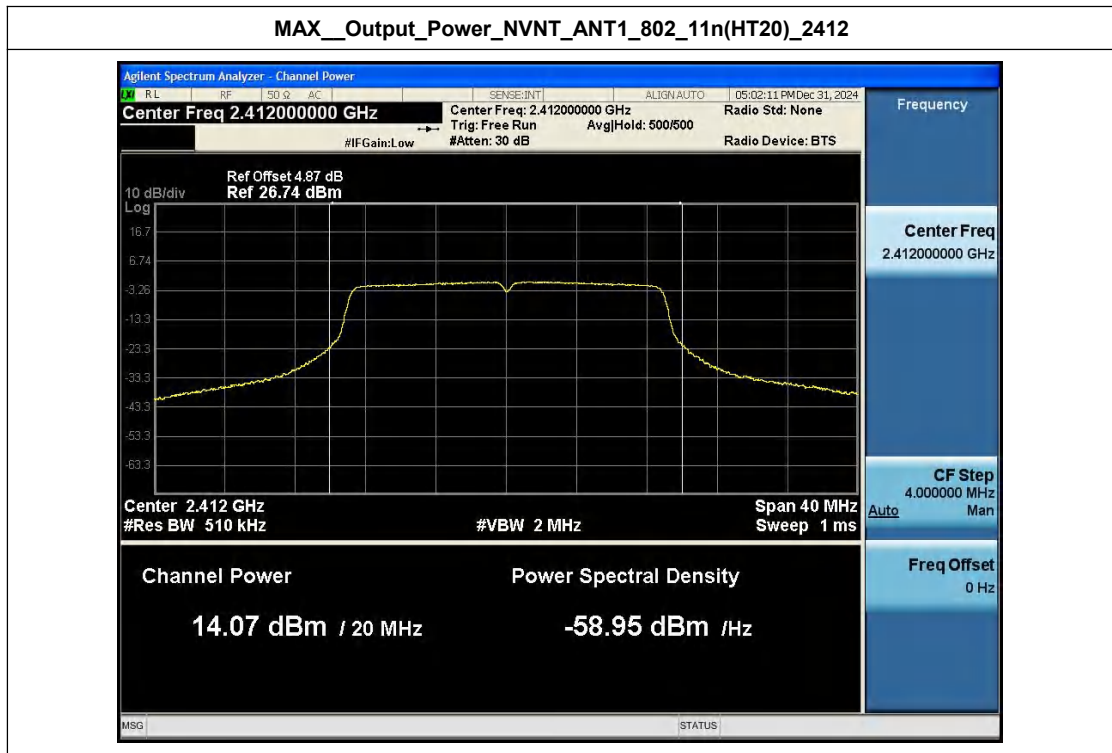
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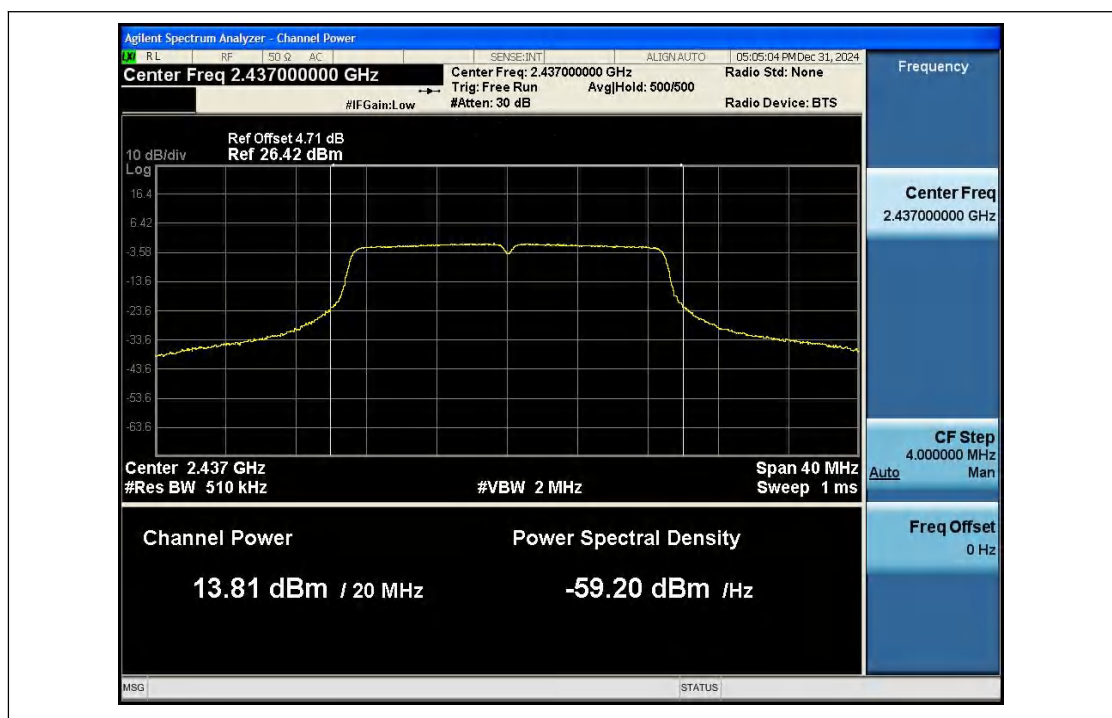
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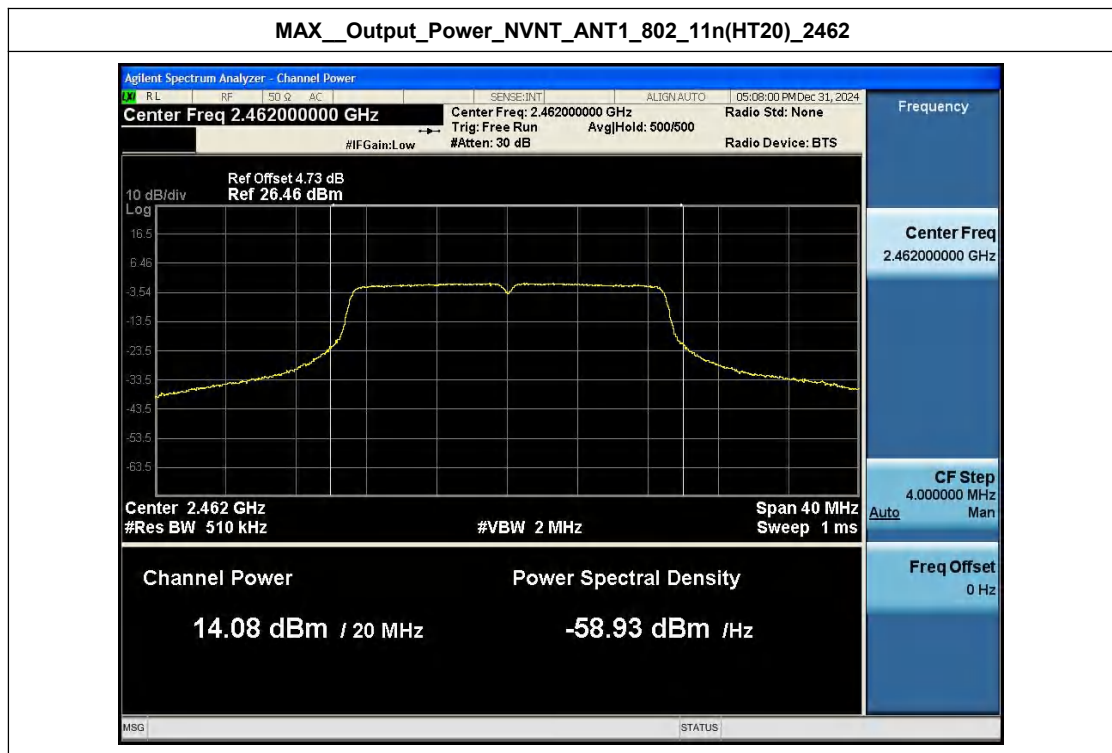
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



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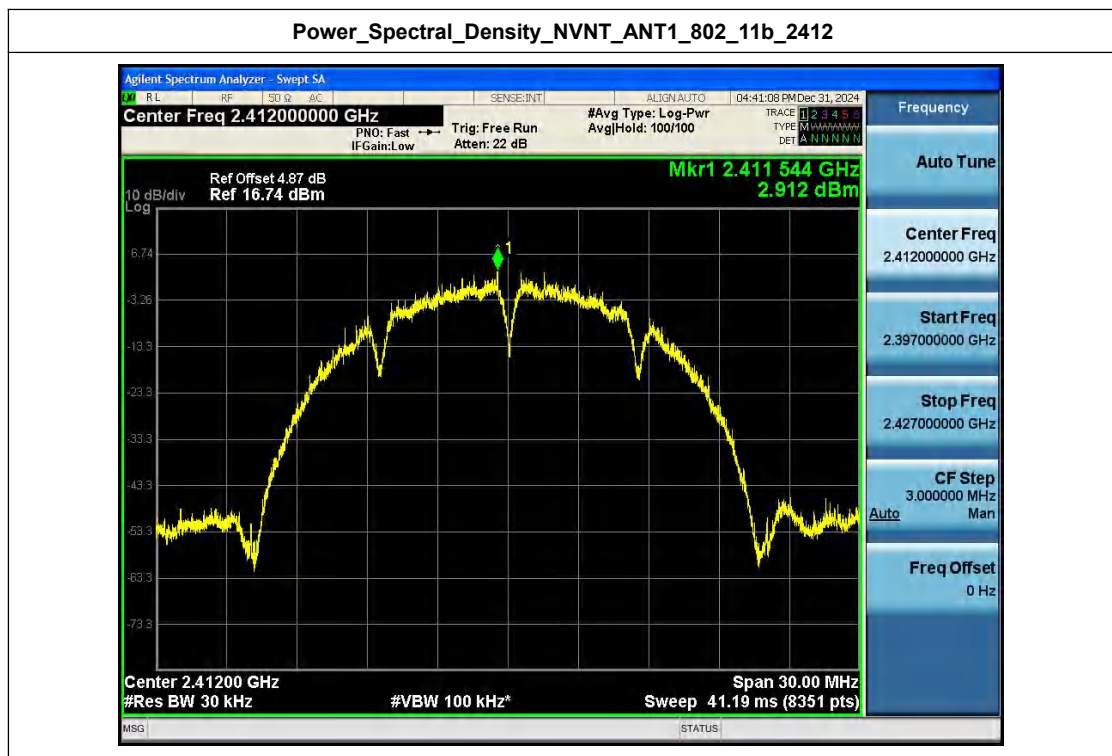
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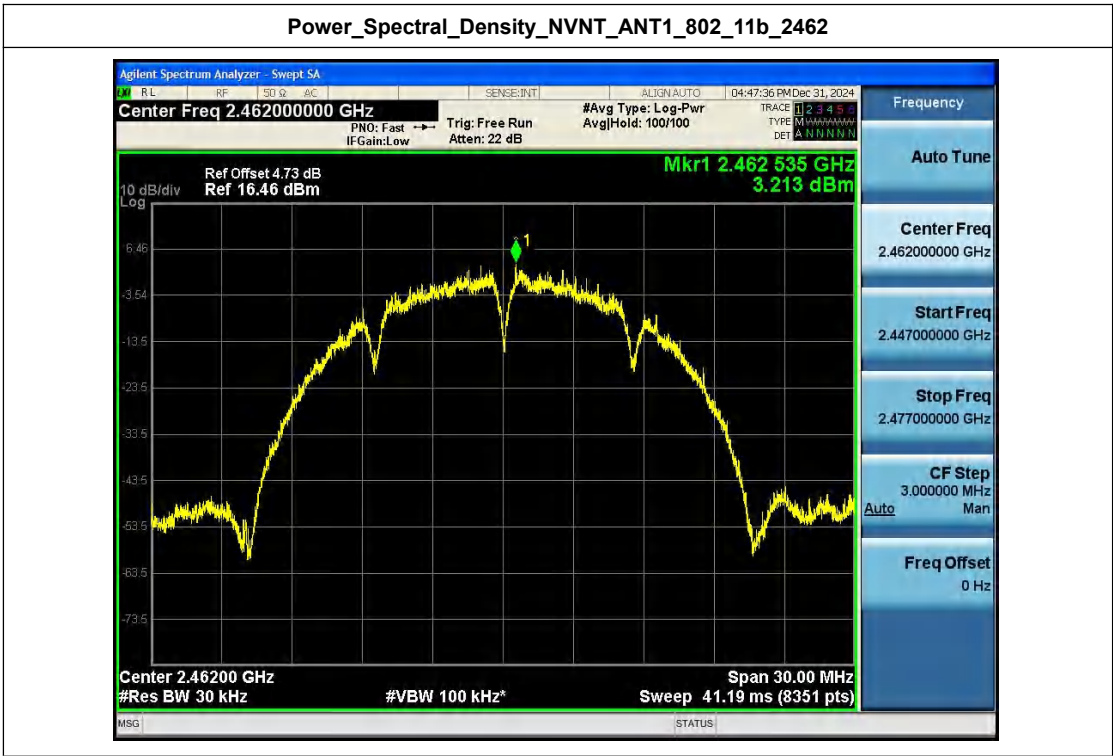
Appendix E: Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Result
NVNT	ANT1	802.11b	2412.00	2.91	0.00	-10.00	-7.09	8	Pass
NVNT	ANT1	802.11b	2437.00	2.73	0.00	-10.00	-7.28	8	Pass
NVNT	ANT1	802.11b	2462.00	3.21	0.00	-10.00	-6.79	8	Pass
NVNT	ANT1	802.11g	2412.00	-2.38	0.24	-10.00	-12.14	8	Pass
NVNT	ANT1	802.11g	2437.00	-2.42	0.24	-10.00	-12.18	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.36	0.24	-10.00	-12.12	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-2.00	0.22	-10.00	-11.78	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-2.96	0.26	-10.00	-12.70	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.36	0.22	-10.00	-11.14	8	Pass

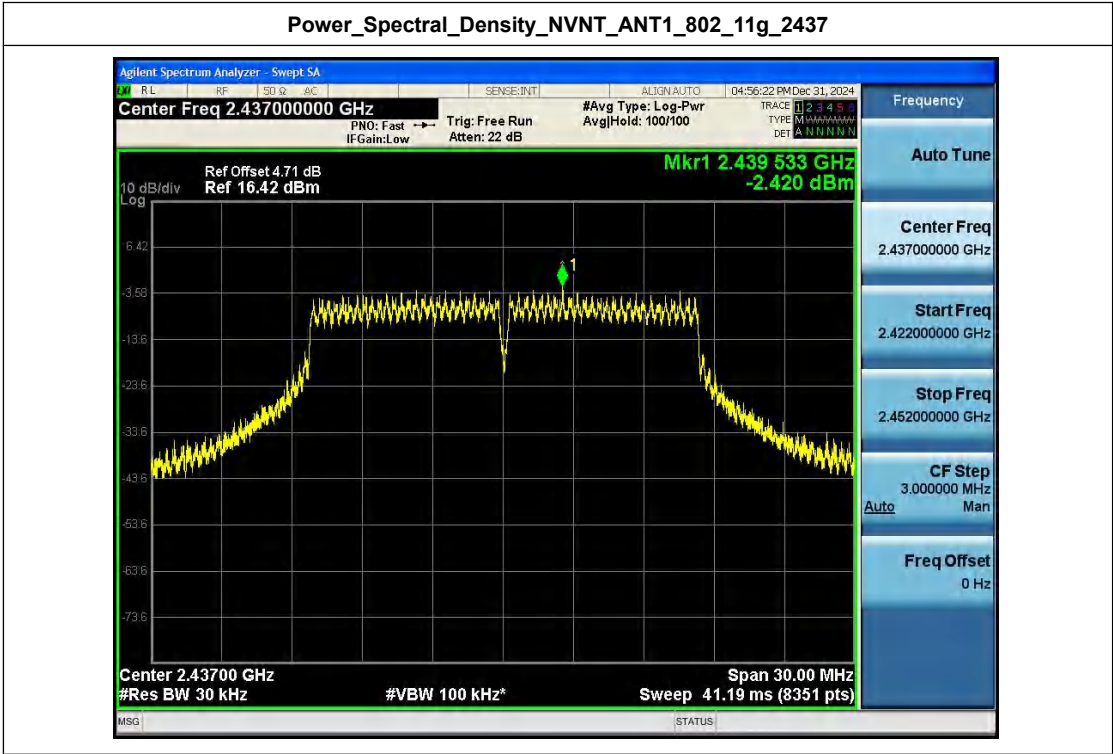
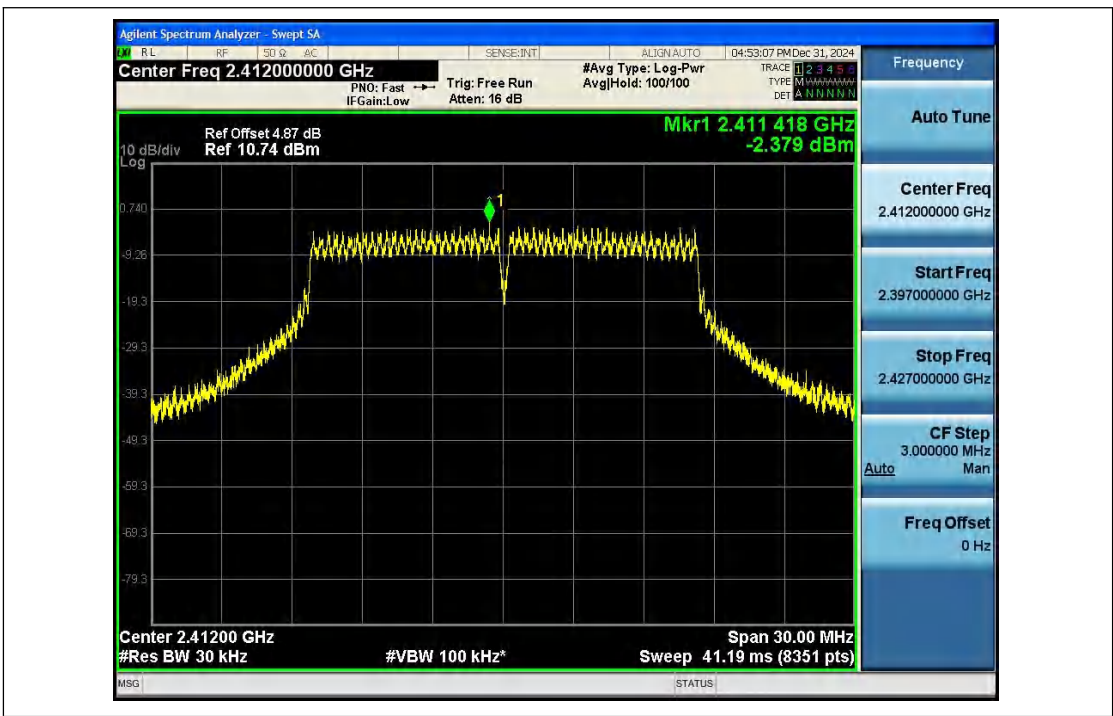
Note: 1.The cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3)) + \text{Duty factor}(dB)$.



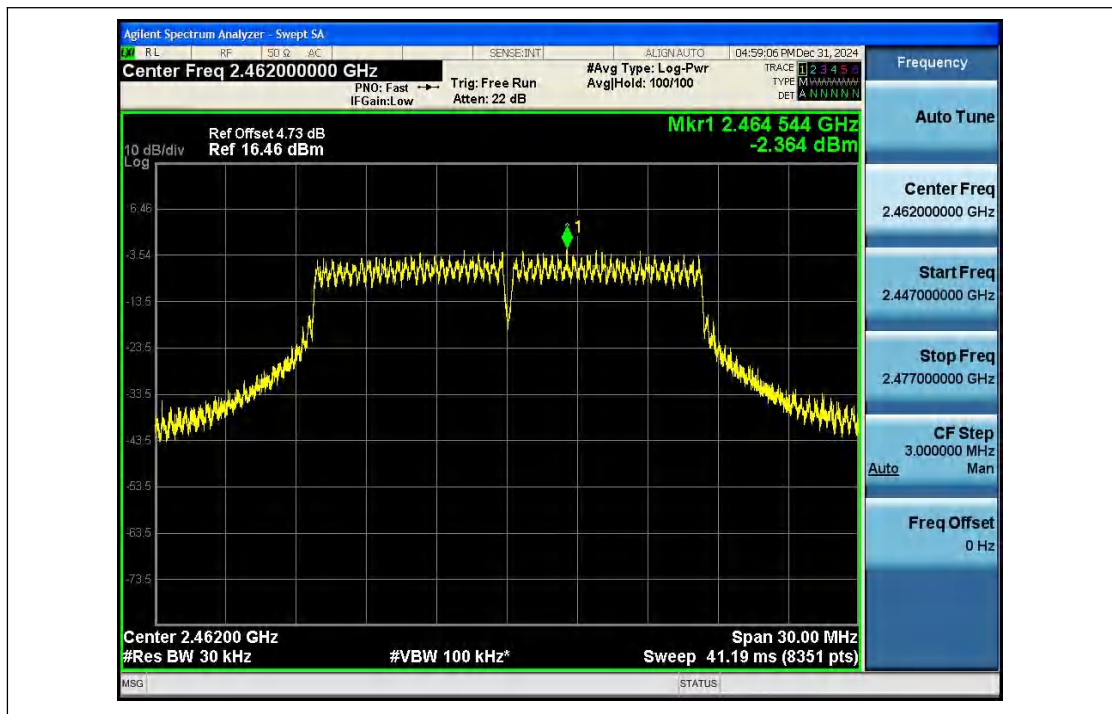
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



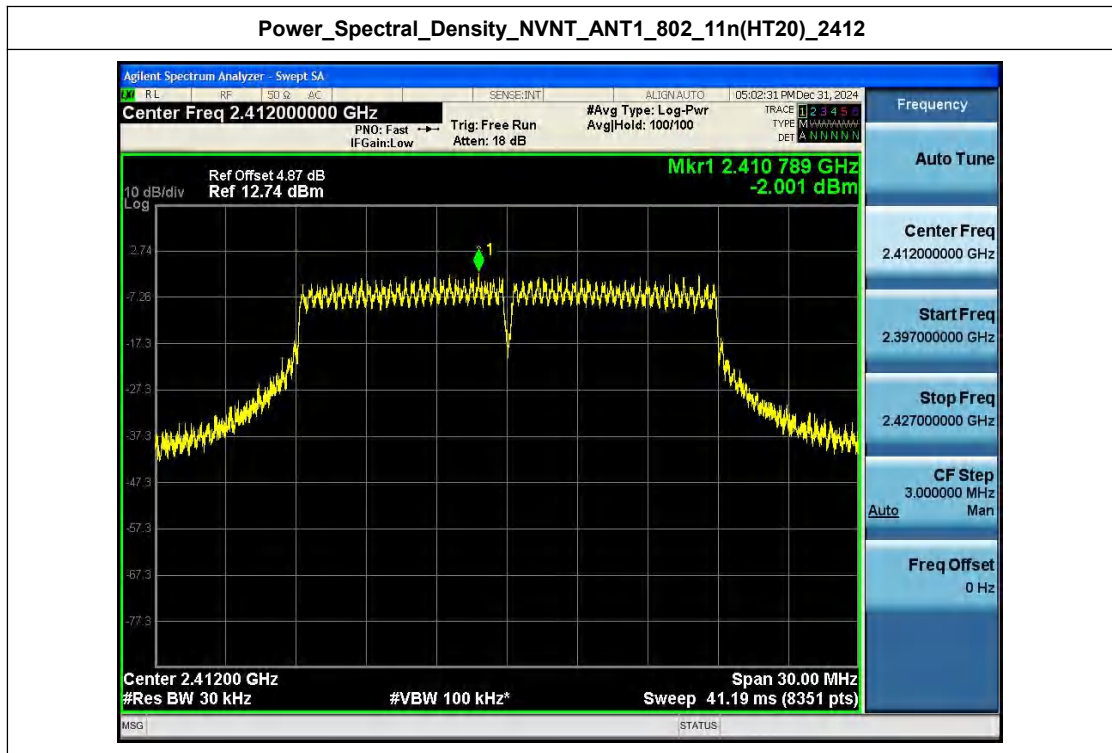
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



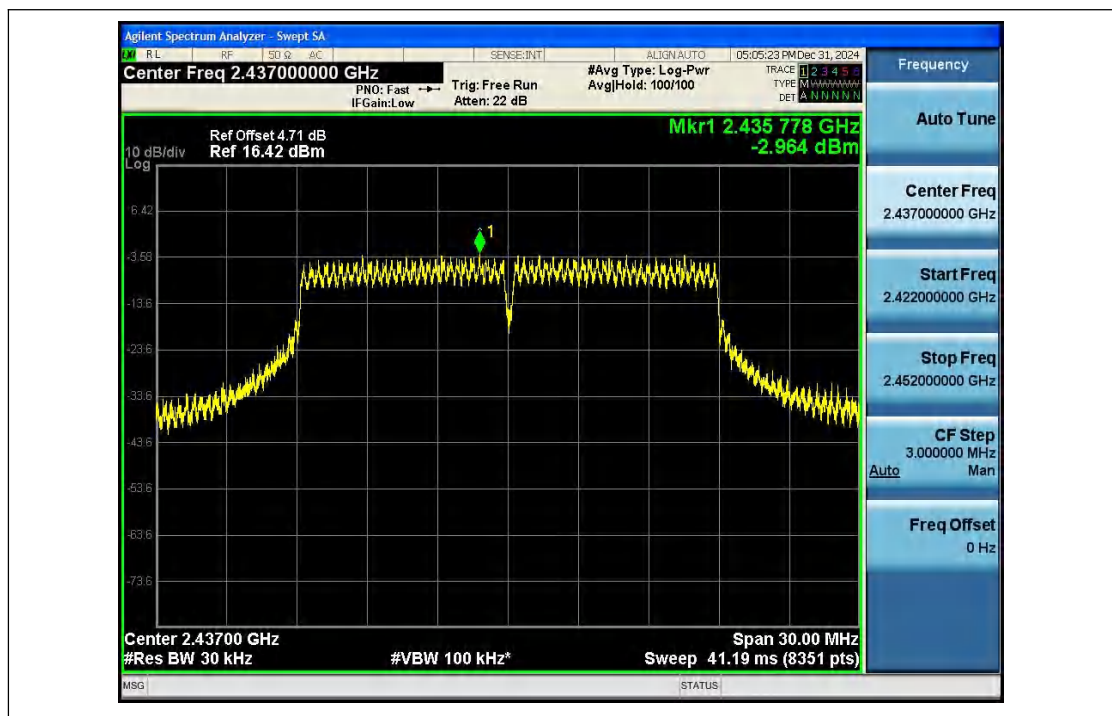
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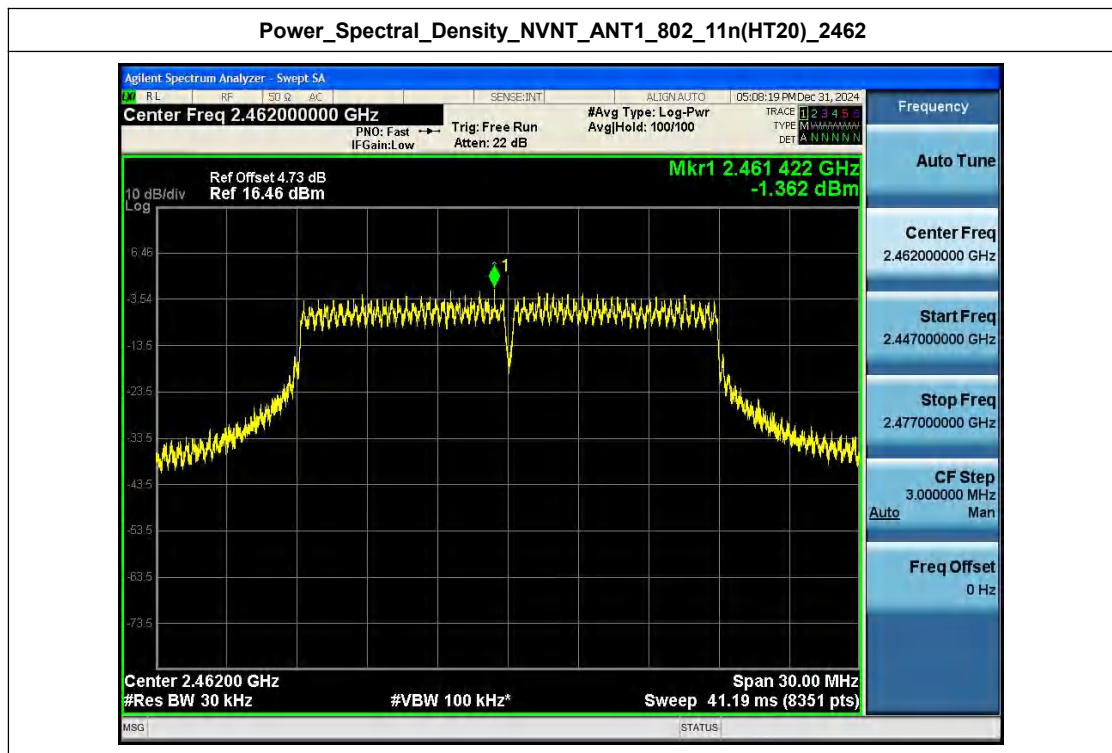
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



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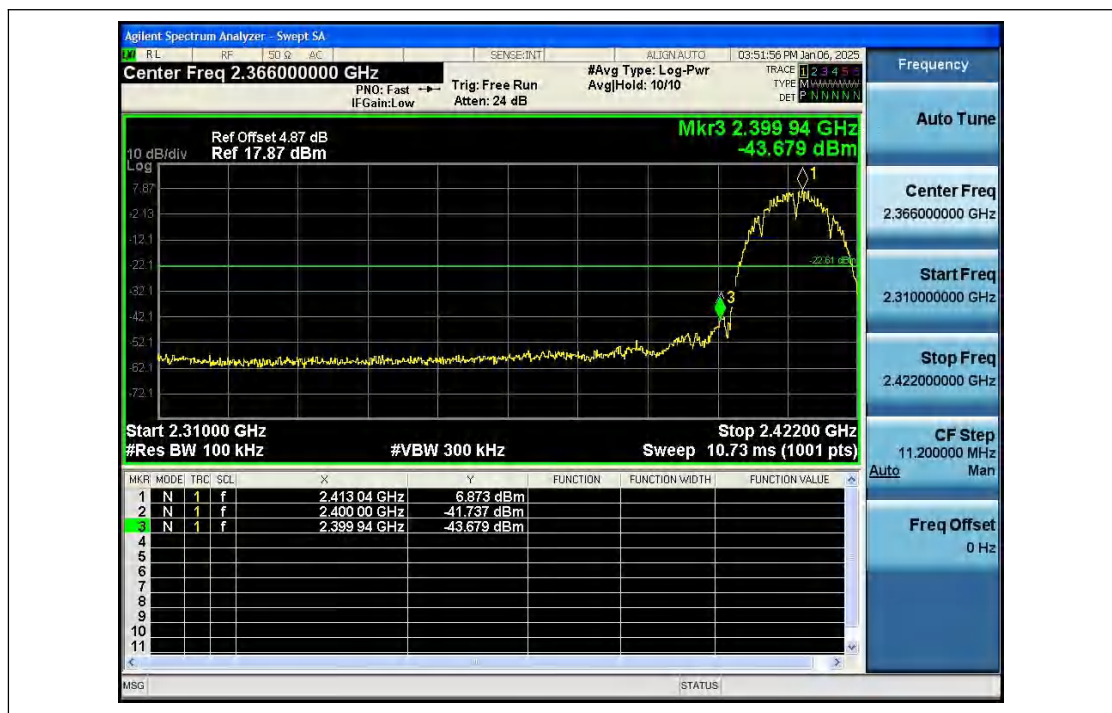
Appendix F: Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	7.388	-43.679	-22.612	Pass
NVNT	ANT1	802.11b	2462.00	2487.376	7.045	-52.937	-22.955	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	3.230	-32.375	-26.770	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	3.048	-45.235	-26.952	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	3.799	-31.213	-26.201	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.632	3.813	-39.955	-26.187	Pass

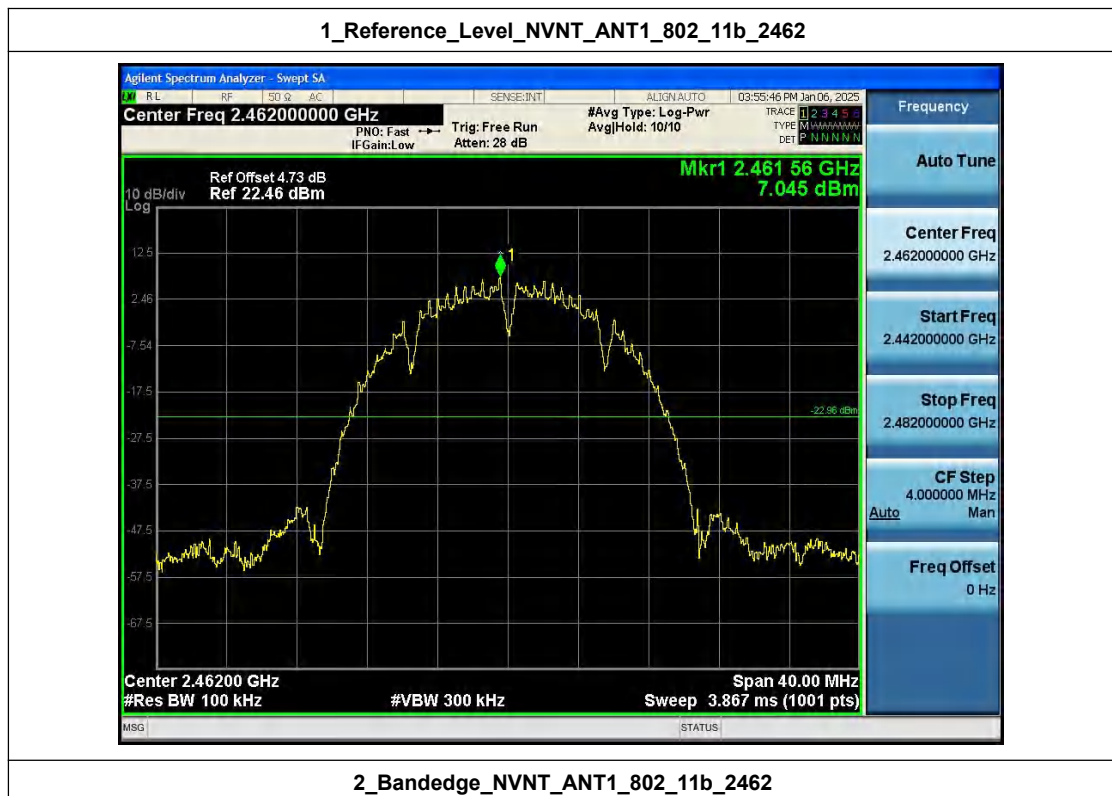
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2_Bandedge_NVNT_ANT1_802_11b_2412



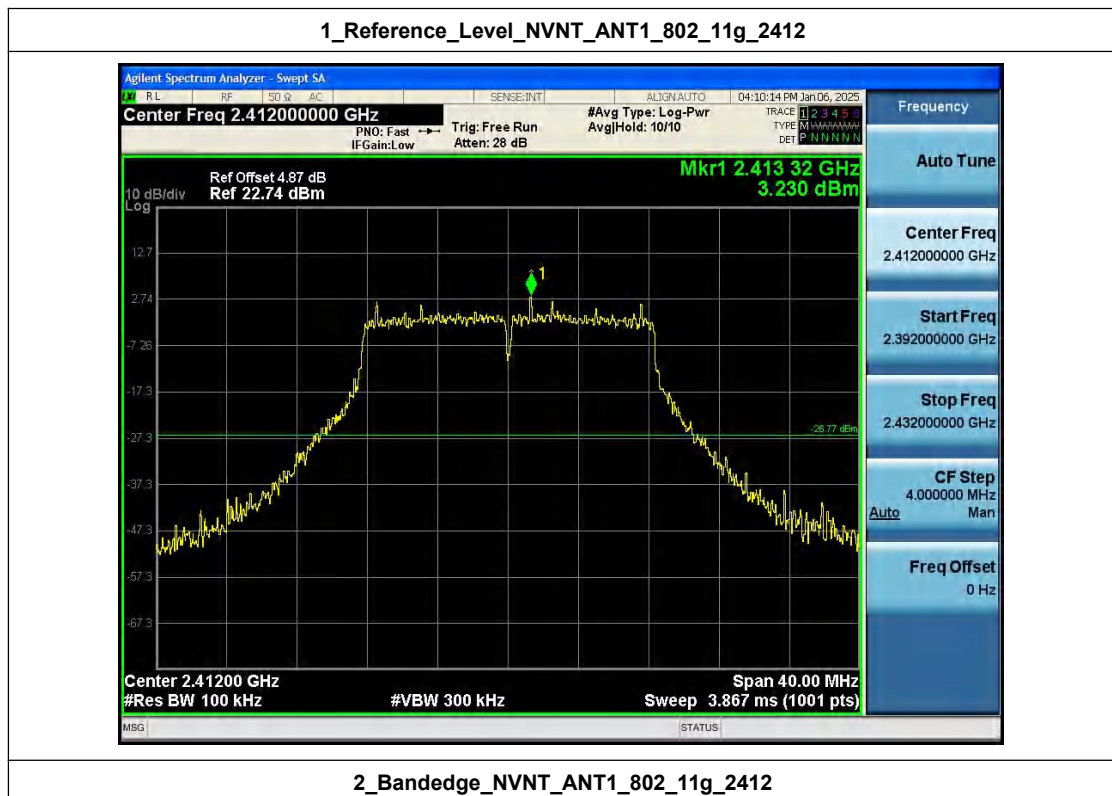
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2_Bandedge_NVNT_ANT1_802_11b_2462



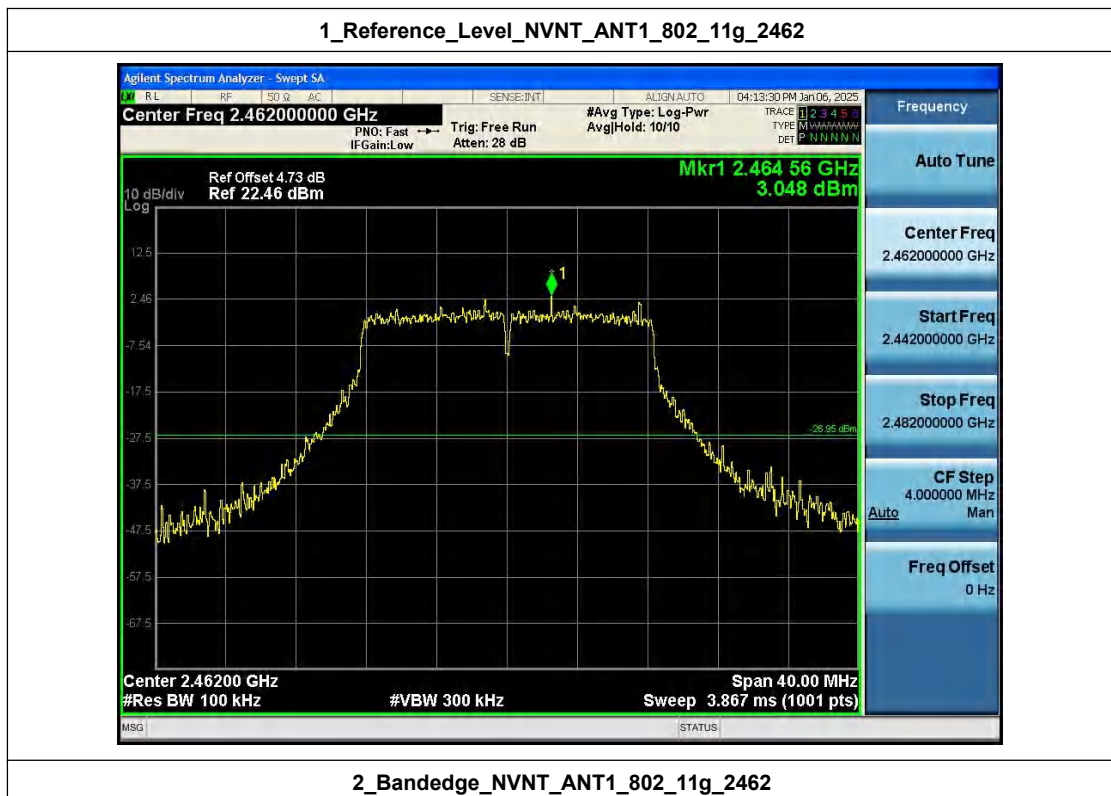
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2_Bandedge_NVNT_ANT1_802_11g_2412



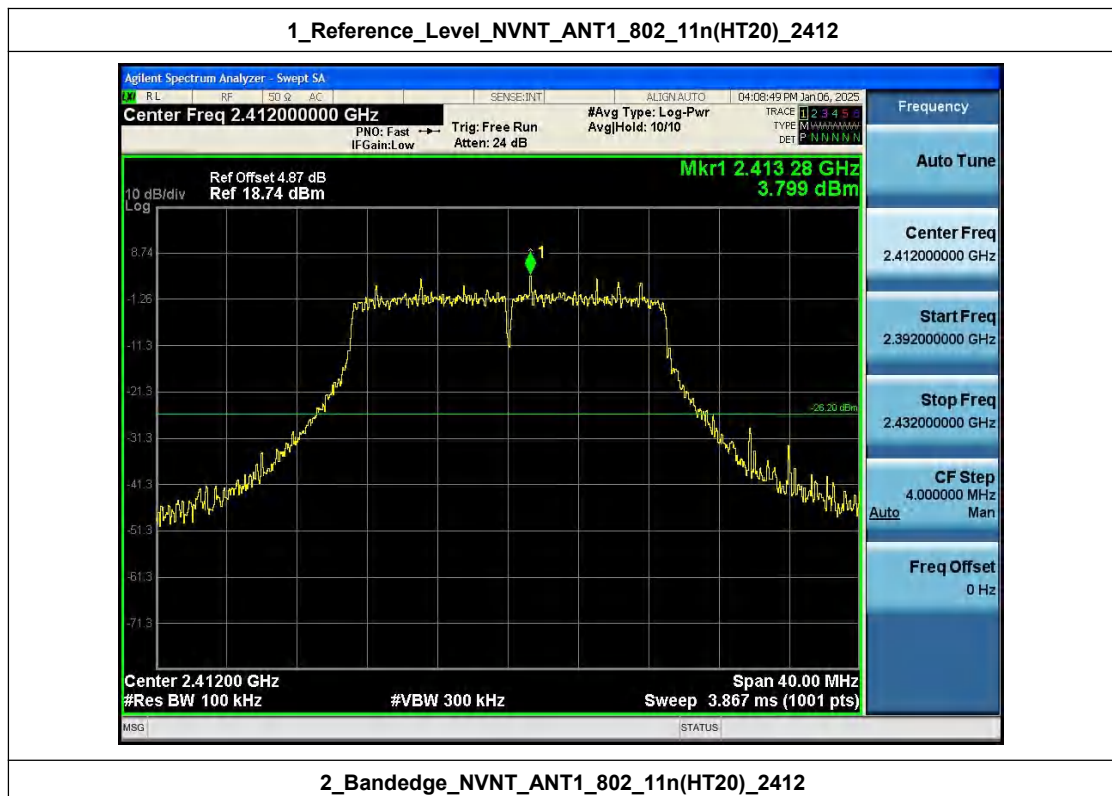
1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



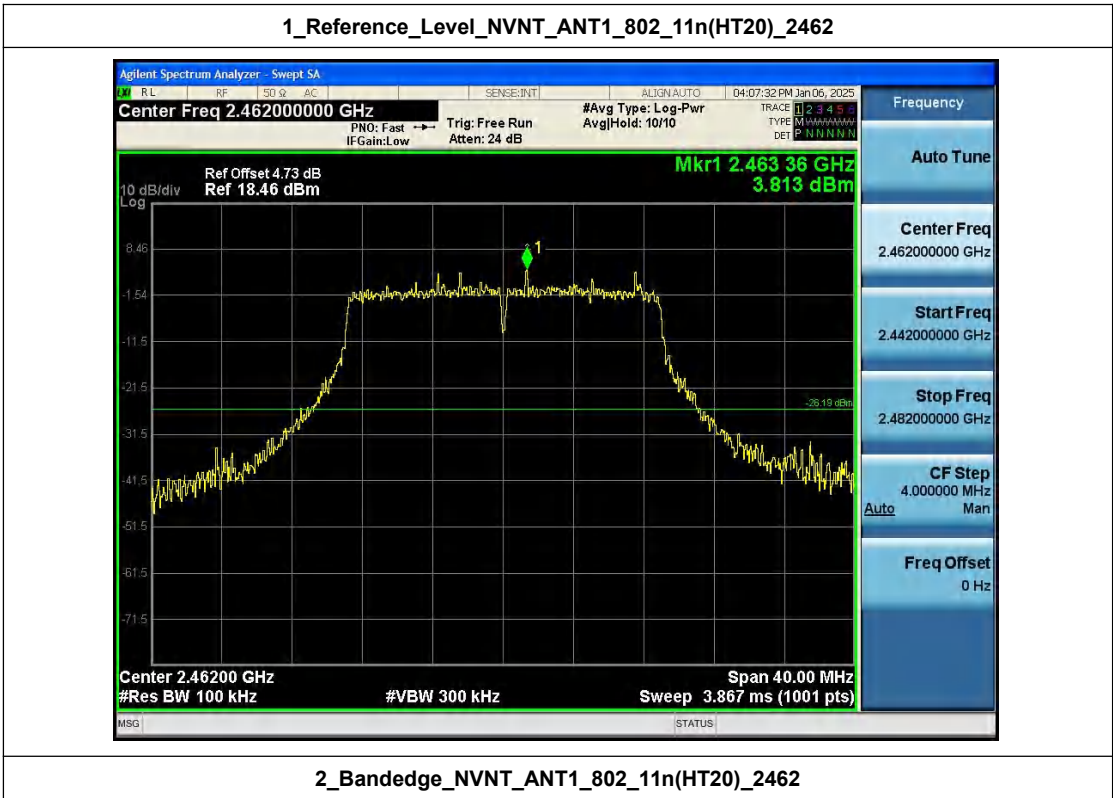
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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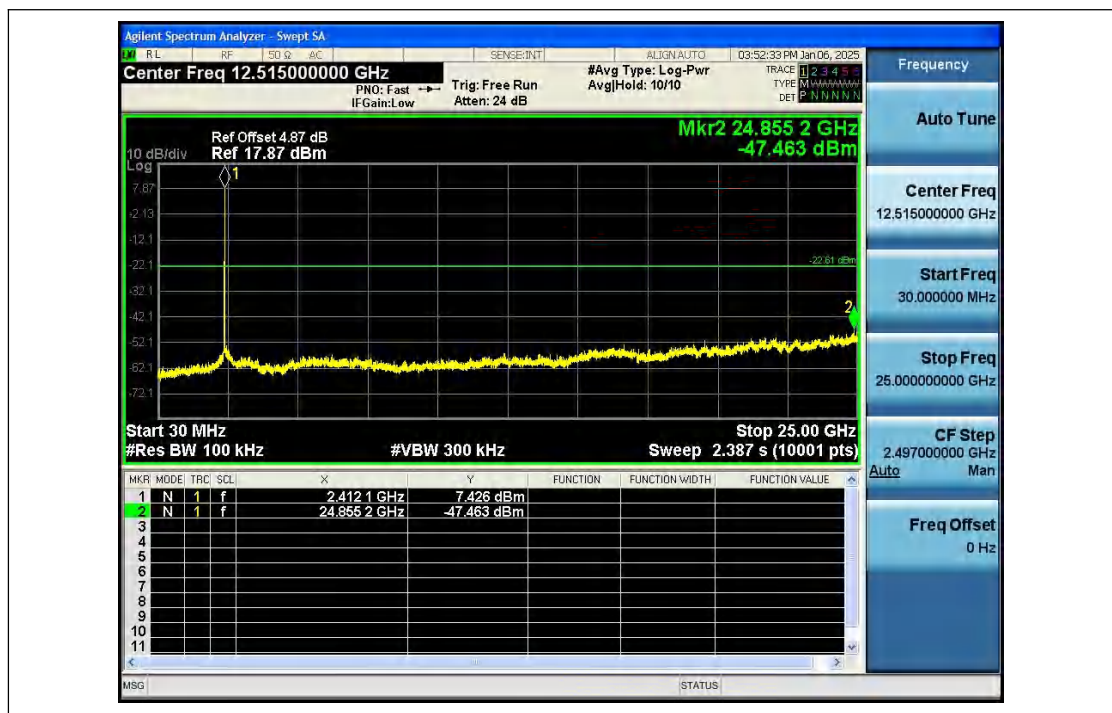
Appendix G: Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24855.174	7.388	-47.463	-22.612	Pass
NVNT	ANT1	802.11b	2437.00	24817.719	6.619	-48.420	-23.381	Pass
NVNT	ANT1	802.11b	2462.00	24845.186	7.045	-49.315	-22.955	Pass
NVNT	ANT1	802.11g	2412.00	24847.683	3.230	-47.925	-26.770	Pass
NVNT	ANT1	802.11g	2437.00	24825.210	2.082	-49.061	-27.918	Pass
NVNT	ANT1	802.11g	2462.00	24820.216	3.048	-48.824	-26.952	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24503.097	3.799	-53.103	-26.201	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24815.222	3.442	-52.606	-26.558	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24945.066	3.813	-53.518	-26.187	Pass

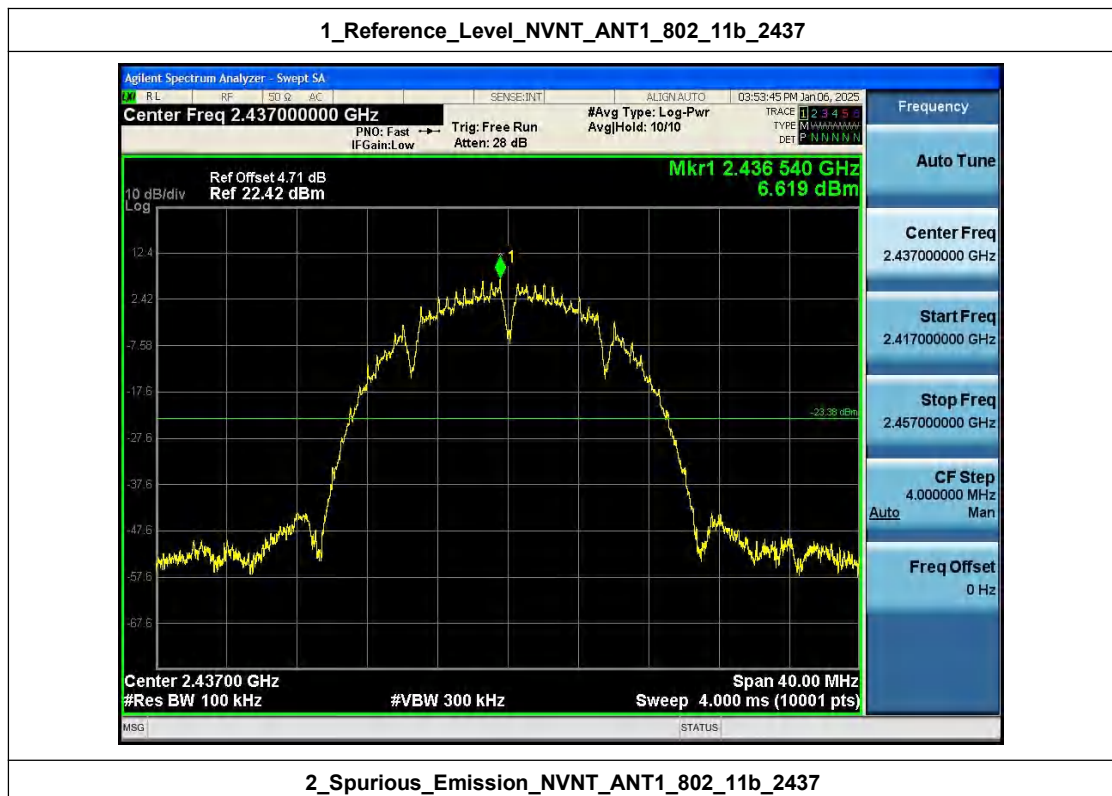
1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Spurious_Emission_NVNT_ANT1_802_11b_2412



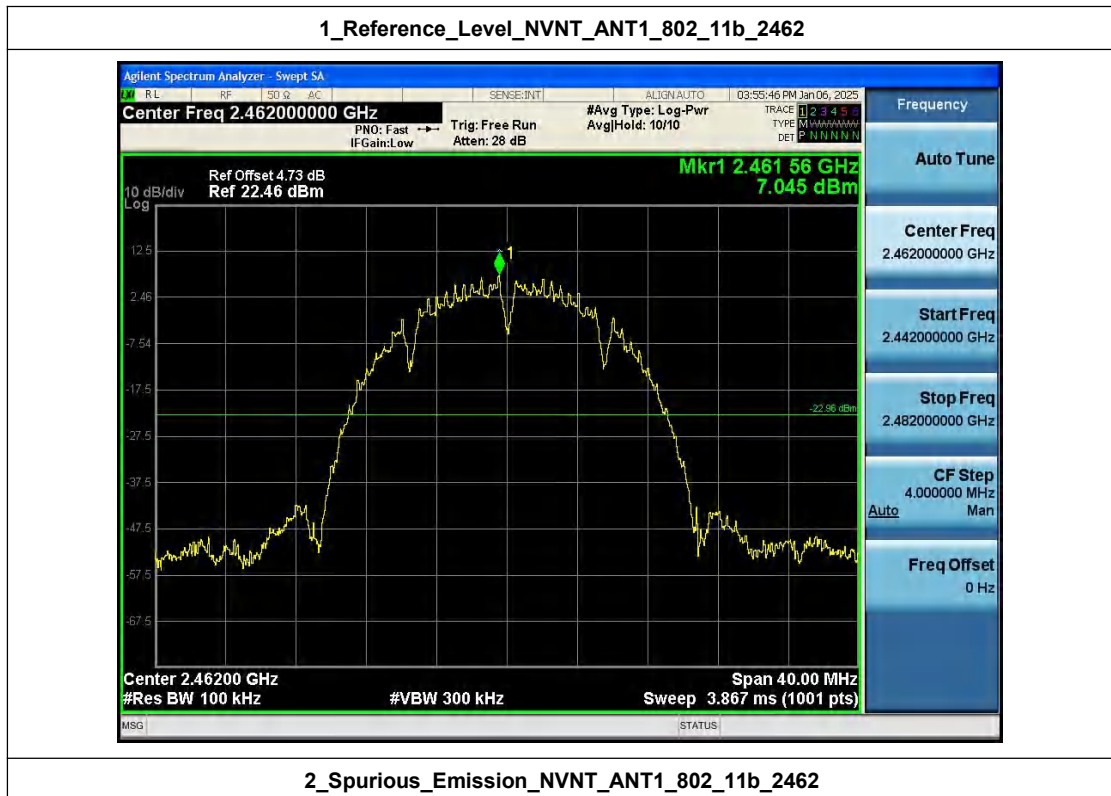
1_Reference_Level_NVNT_ANT1_802_11b_2437



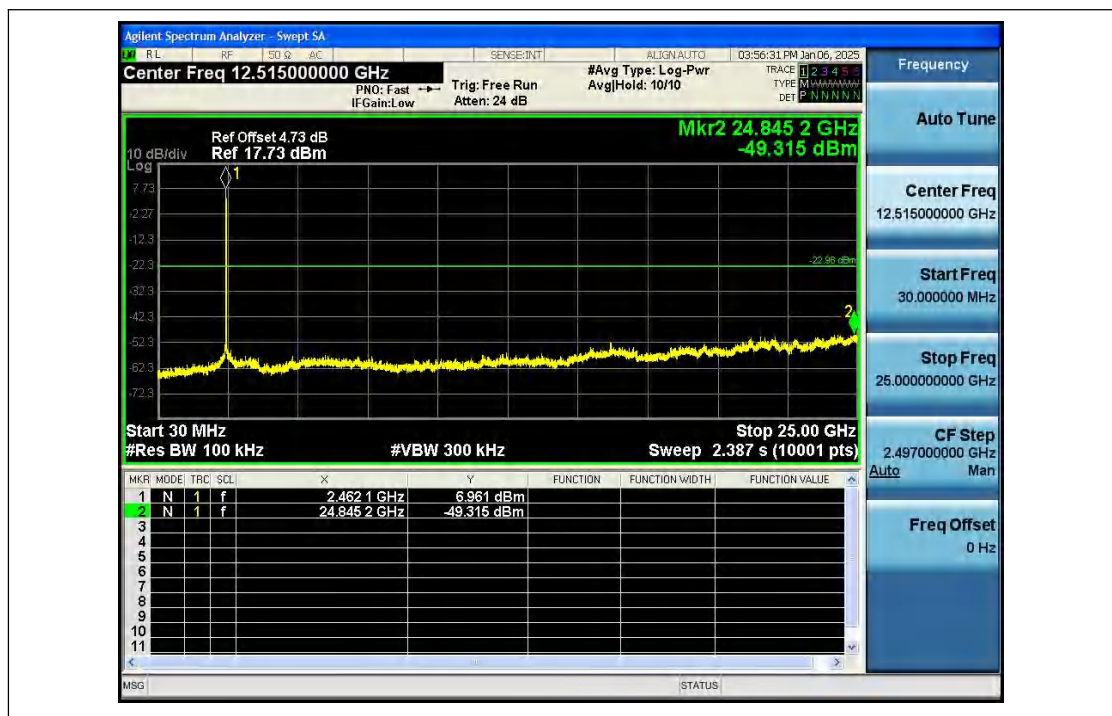
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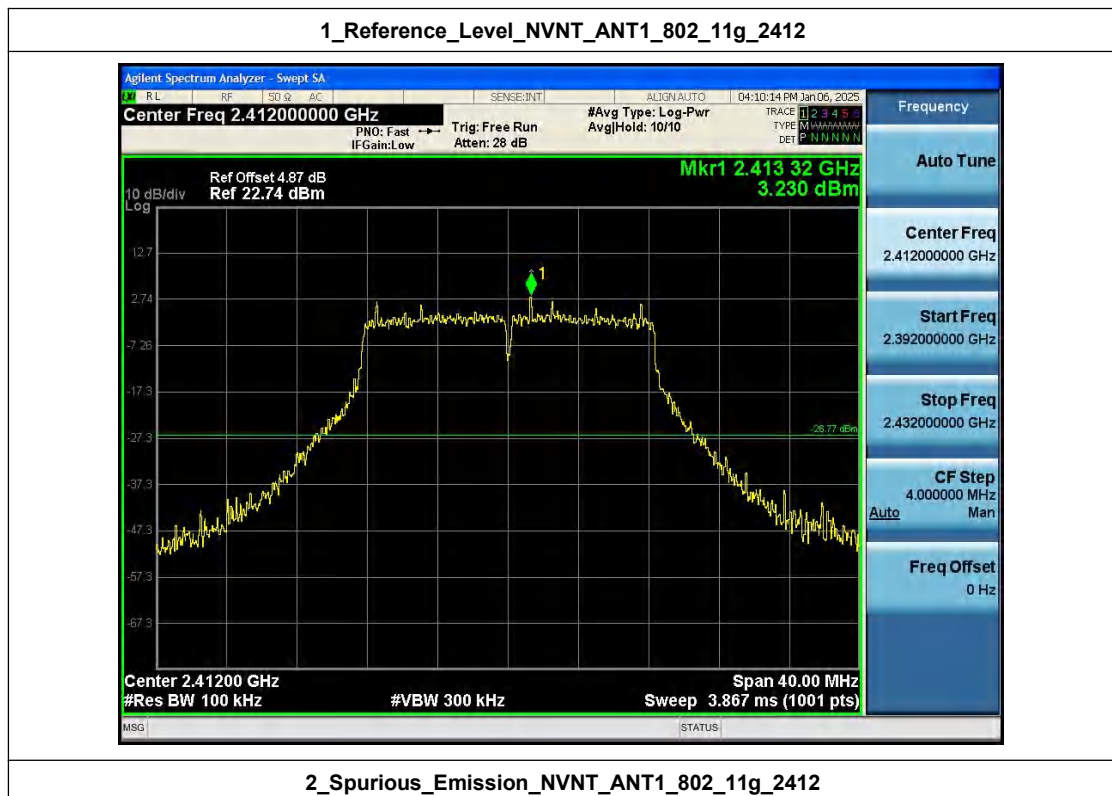
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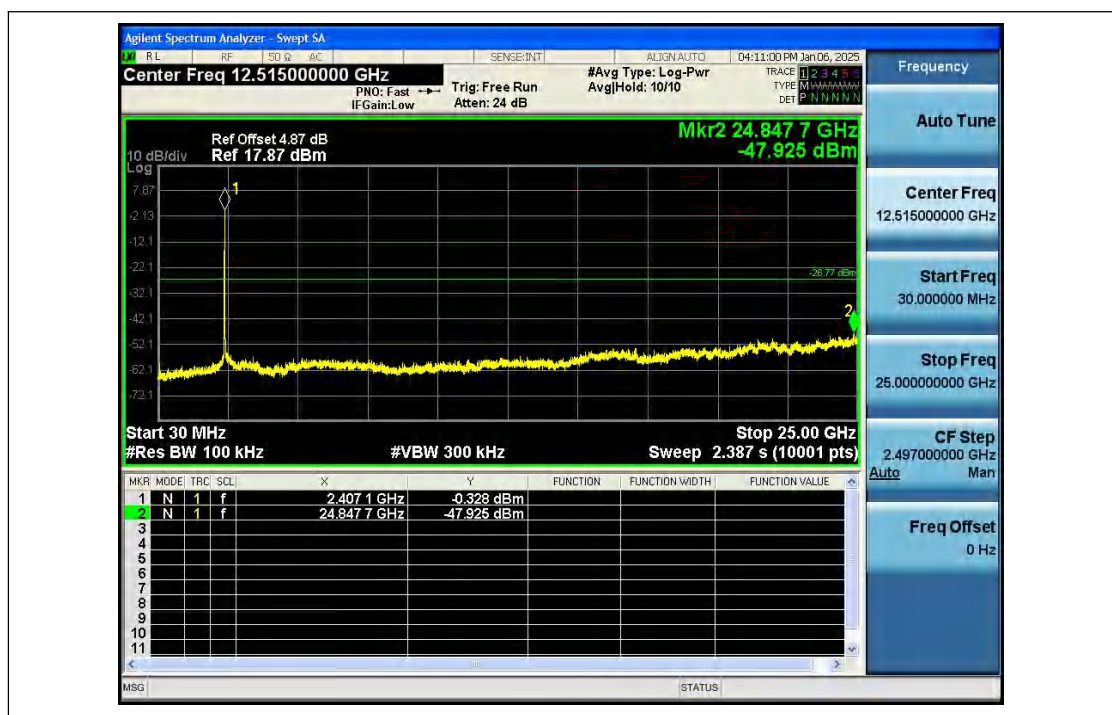
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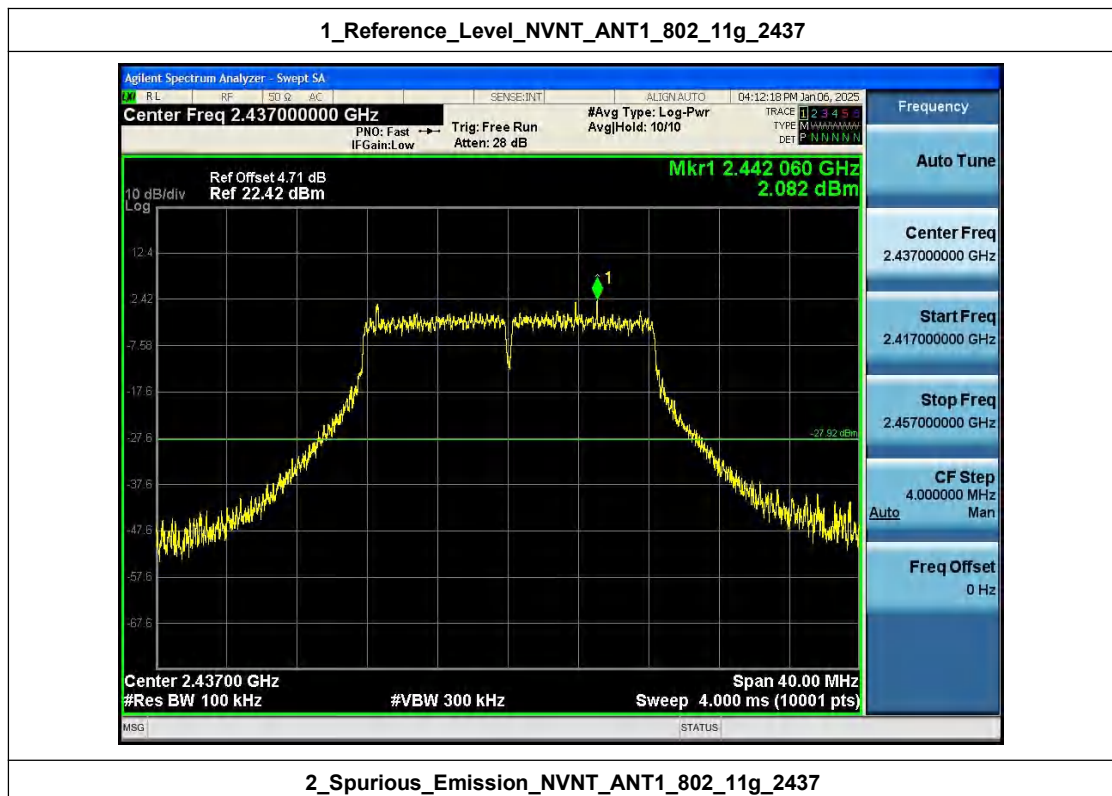
1_Reference_Level_NVNT_ANT1_802_11g_2412



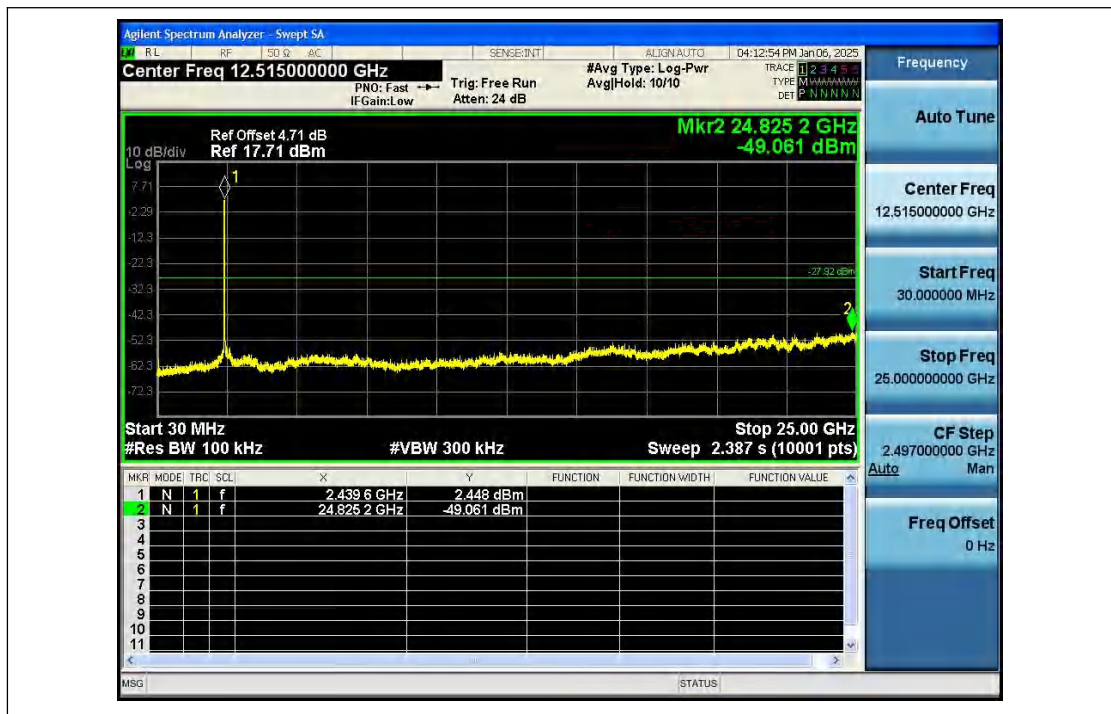
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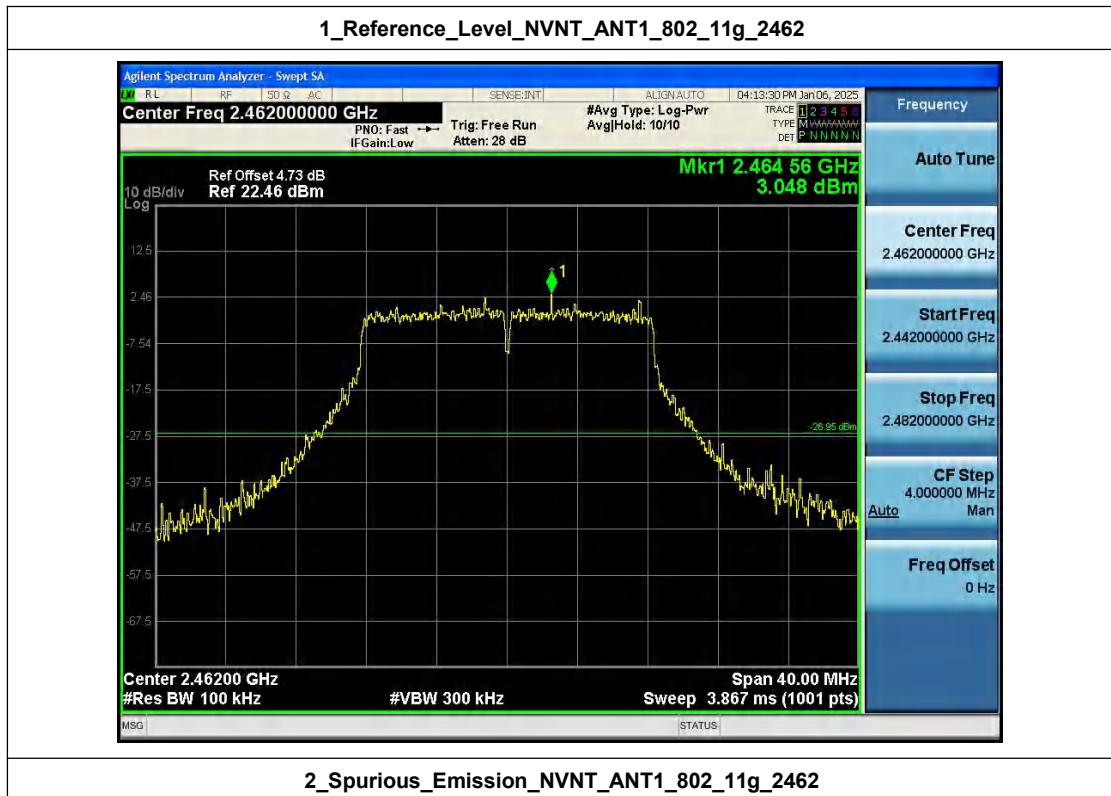
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2_Spurious_Emission_NVNT_ANT1_802_11g_2437



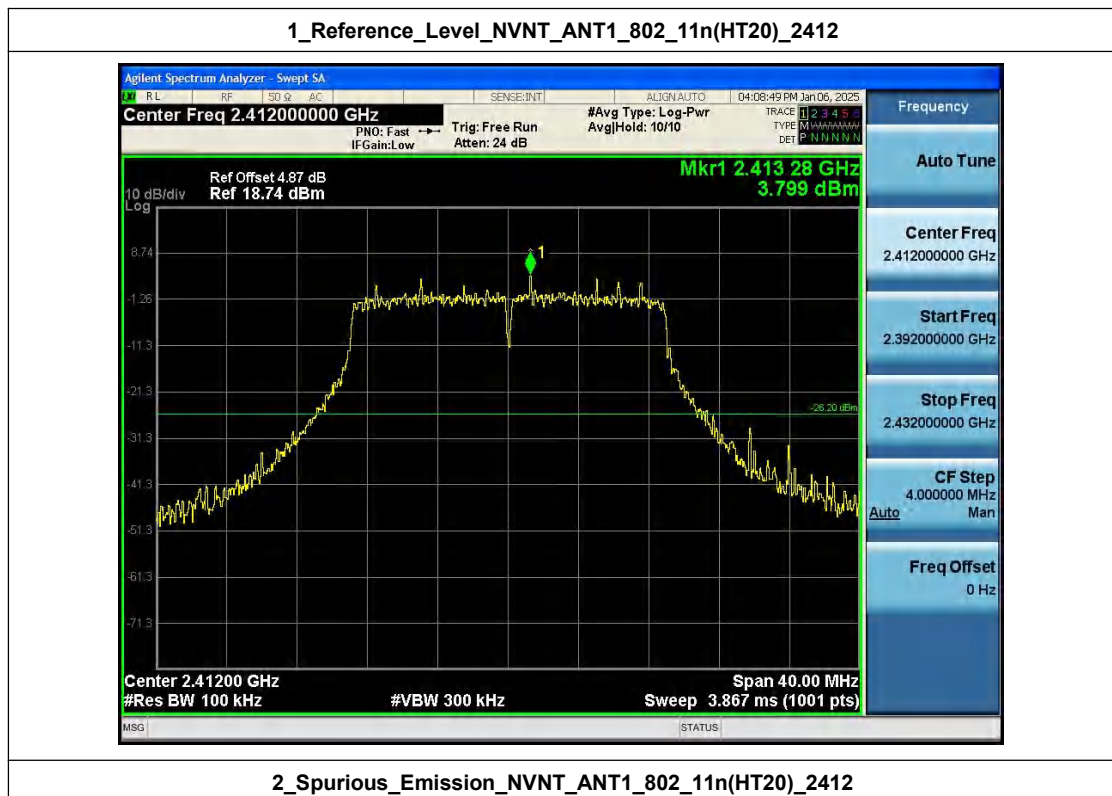
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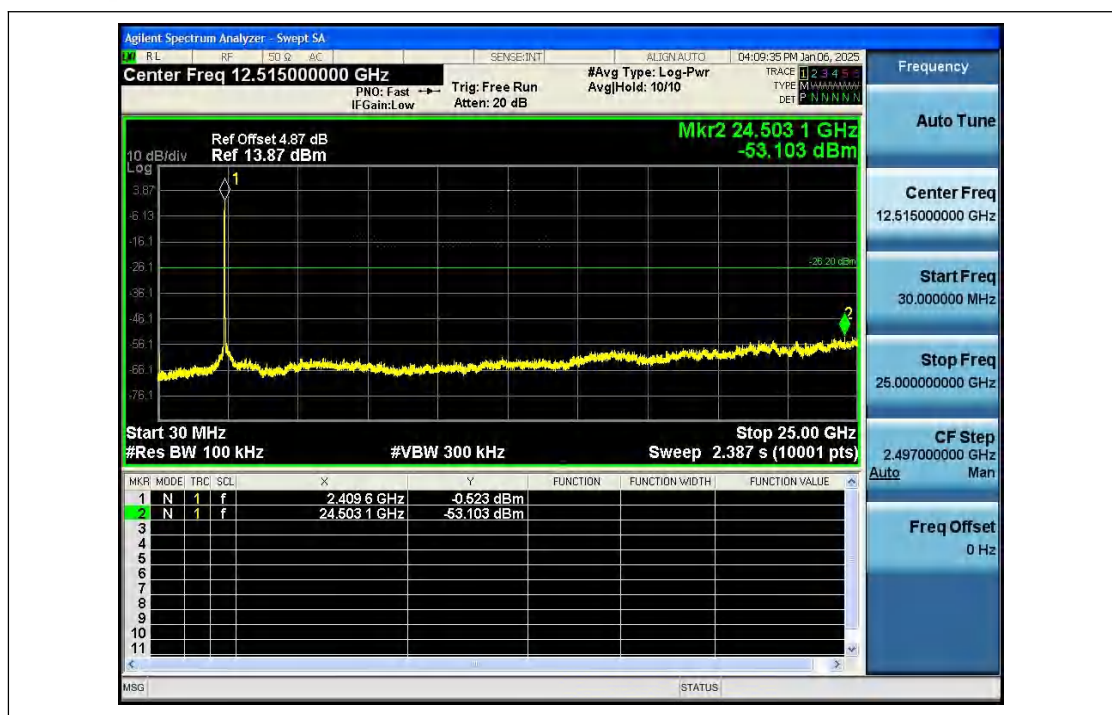
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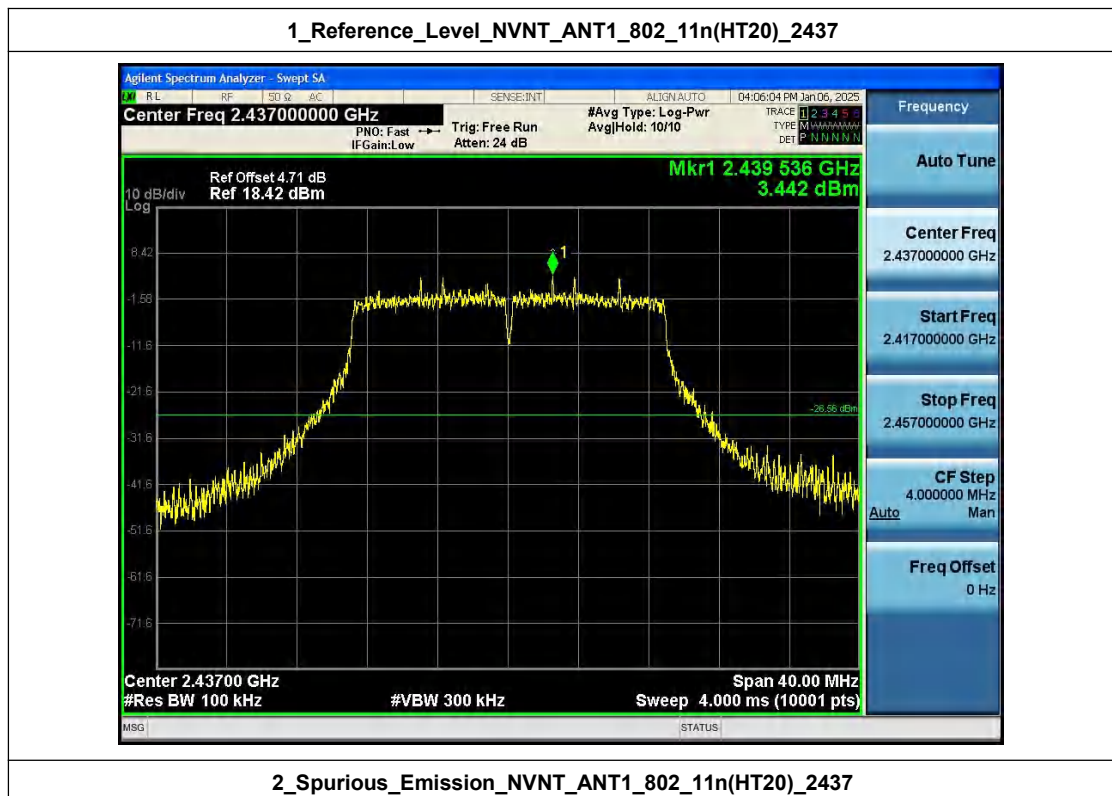
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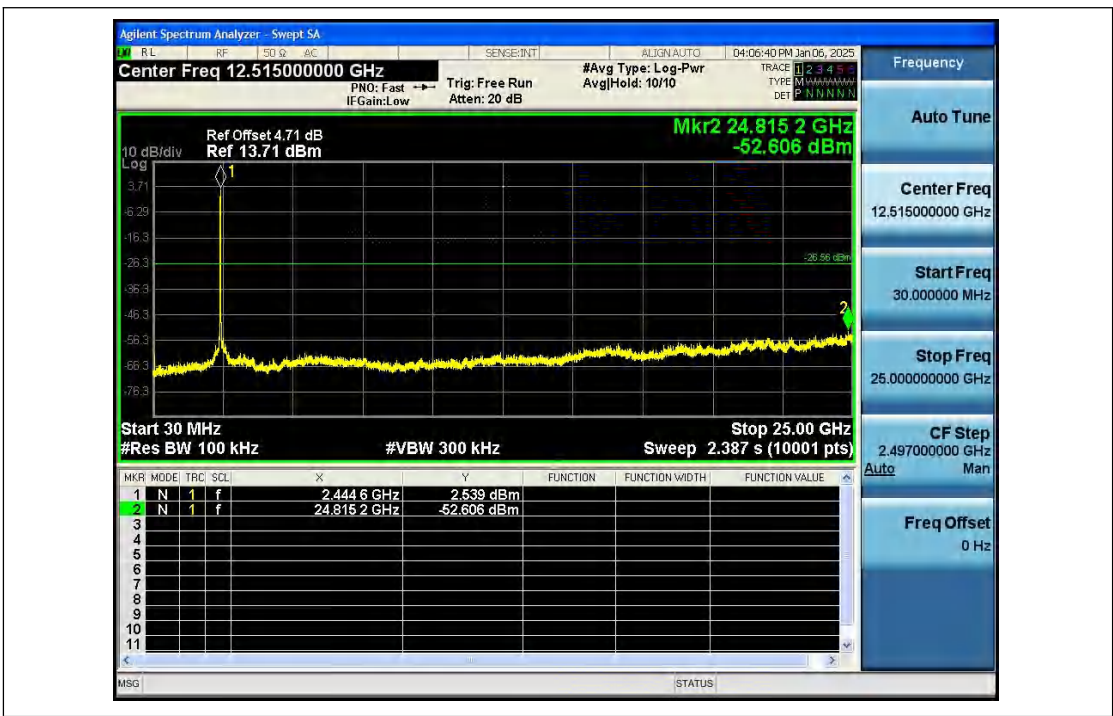
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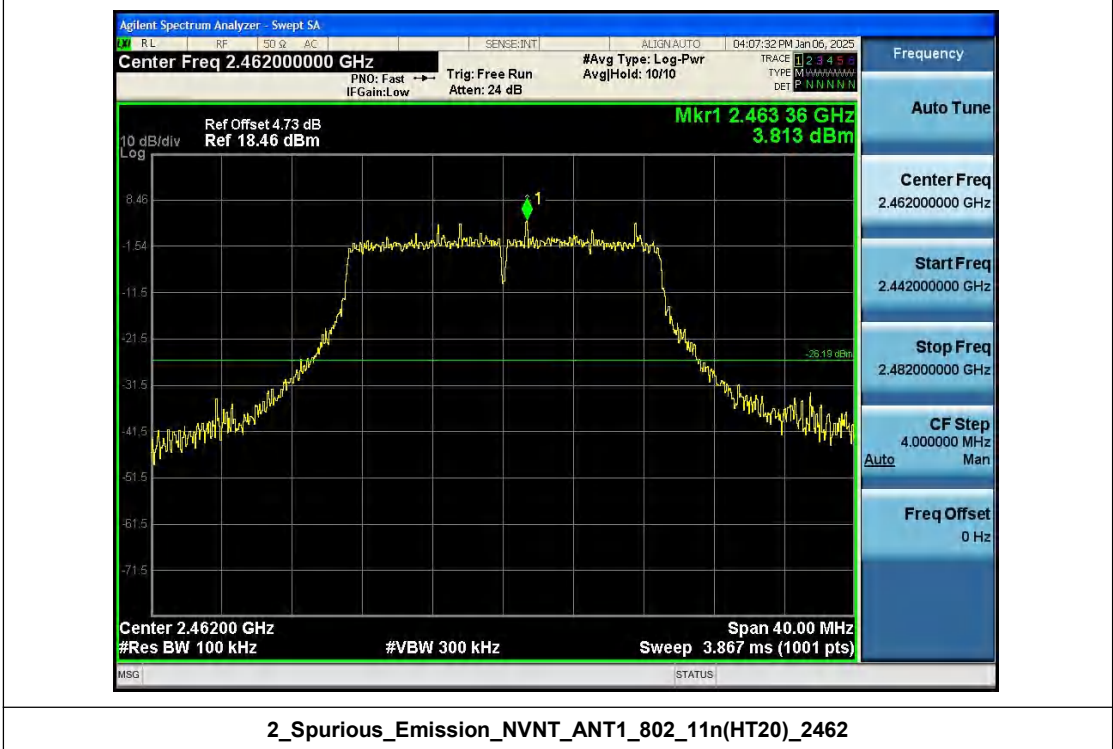
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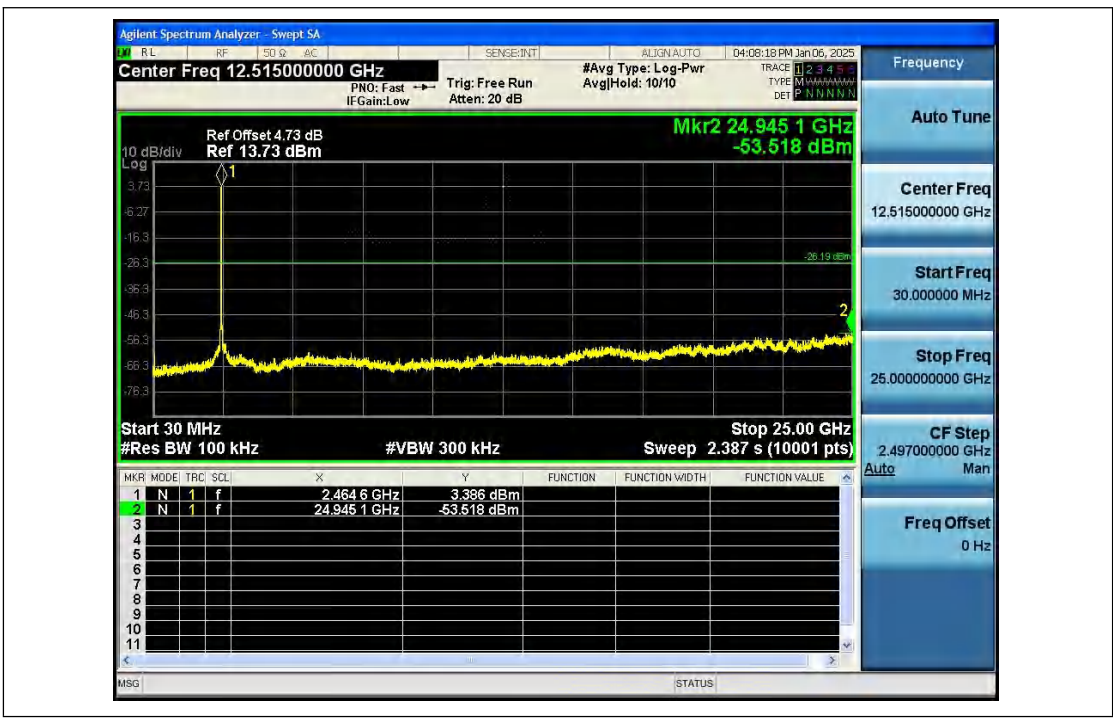
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



---END---