

Appendix Test Data

Report No.:	1812C40094012503	Test Sample No.:	1-2-2
Start Test Date:	2024.10.9	Finish Test Date:	2024.11.22
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	22.7℃	Relative Humidity:	50%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

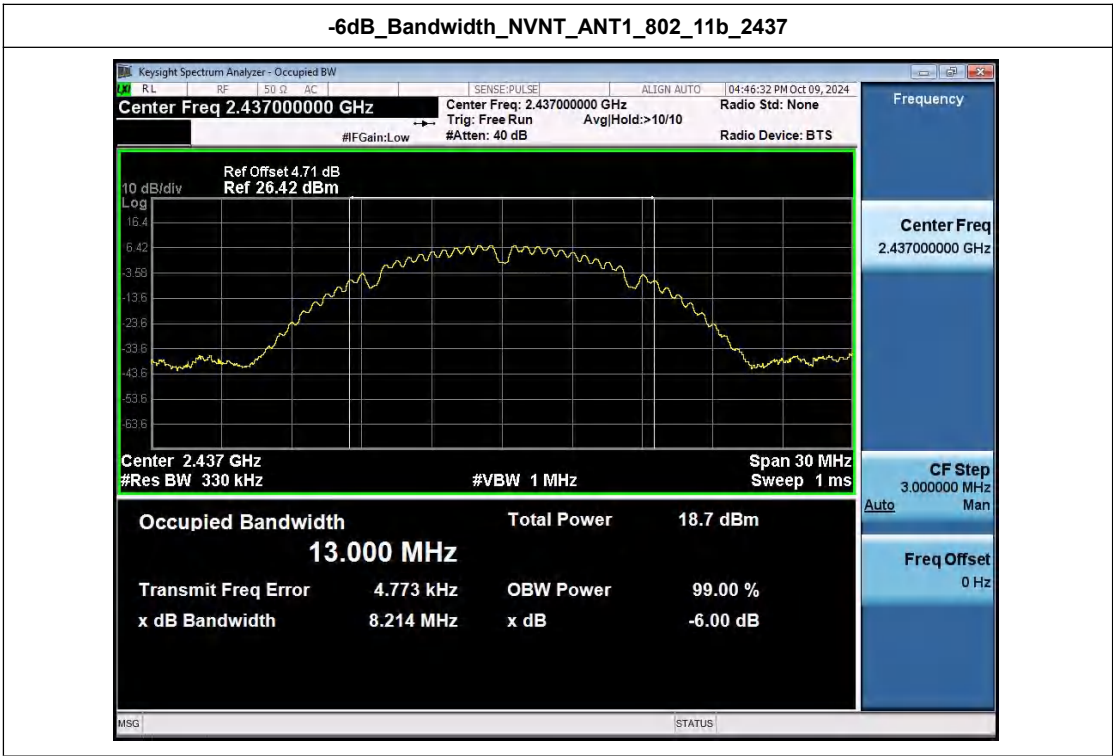
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.23	500	Pass
NVNT	ANT1	802.11b	2437.00	8.21	500	Pass
NVNT	ANT1	802.11b	2462.00	8.18	500	Pass
NVNT	ANT1	802.11g	2412.00	16.31	500	Pass
NVNT	ANT1	802.11g	2437.00	16.29	500	Pass
NVNT	ANT1	802.11g	2462.00	16.24	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.48	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.54	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.10	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.48	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.42	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



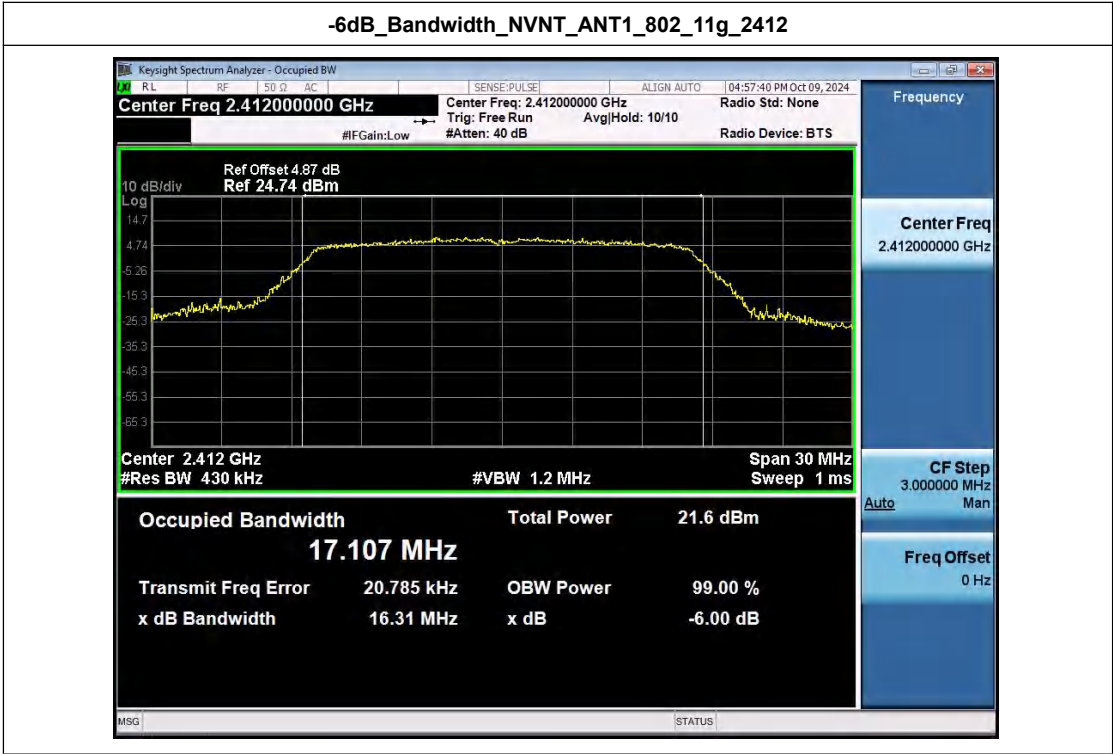
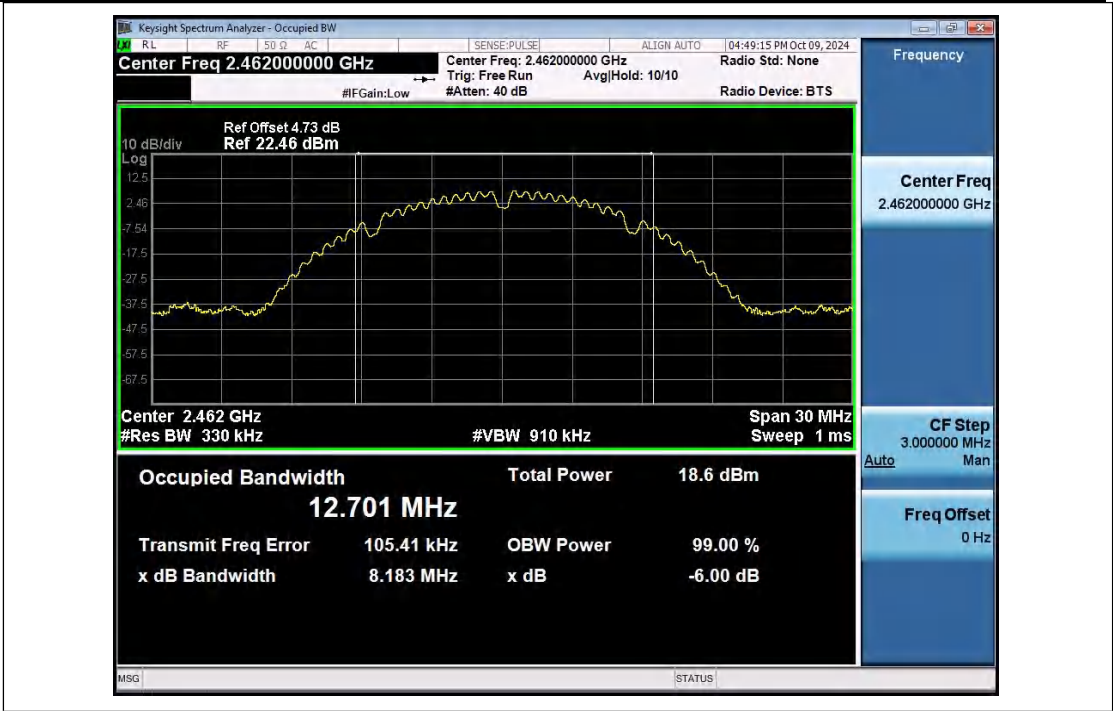


-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



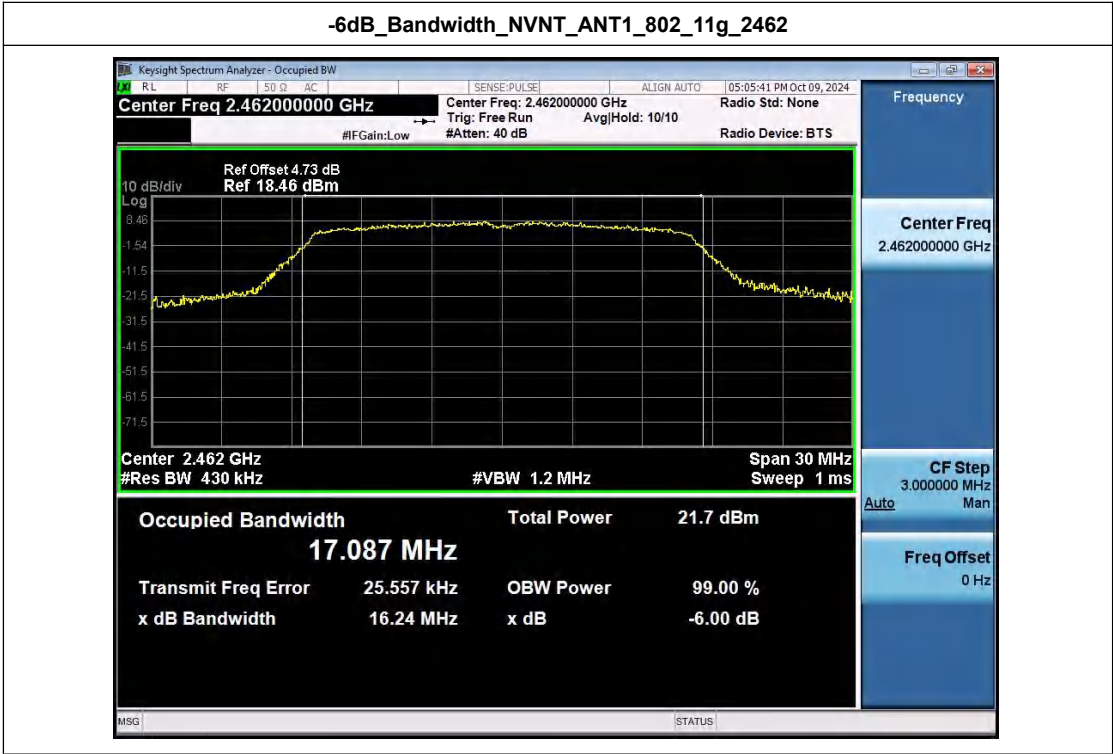
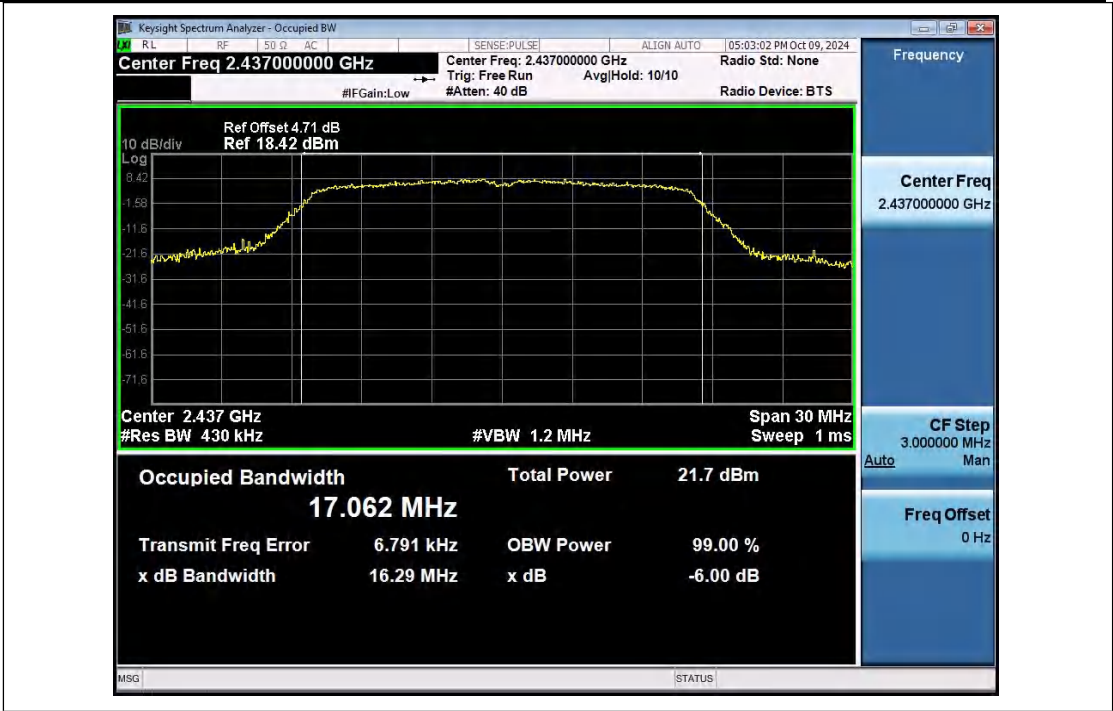
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462





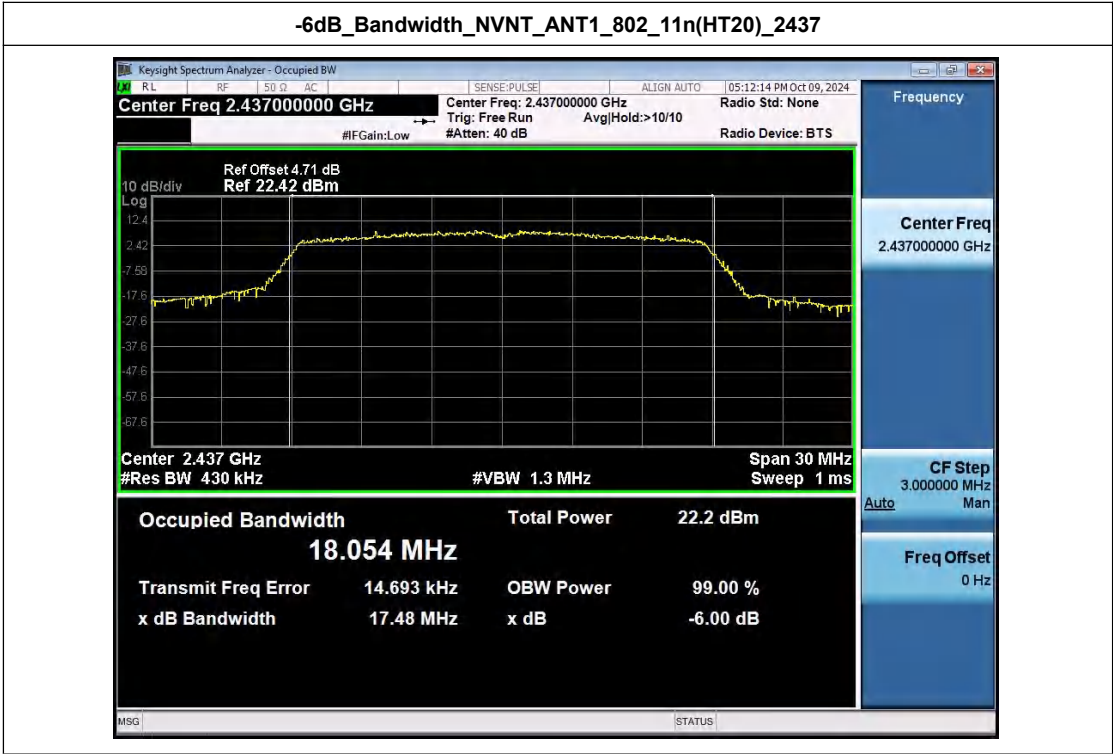
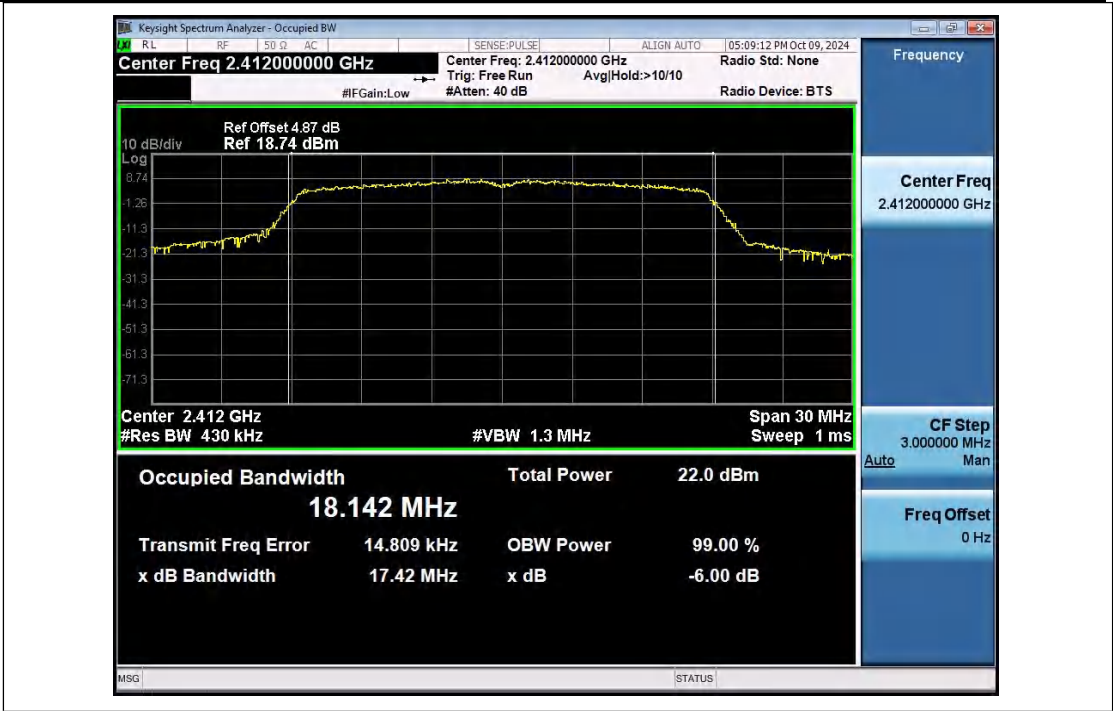
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437





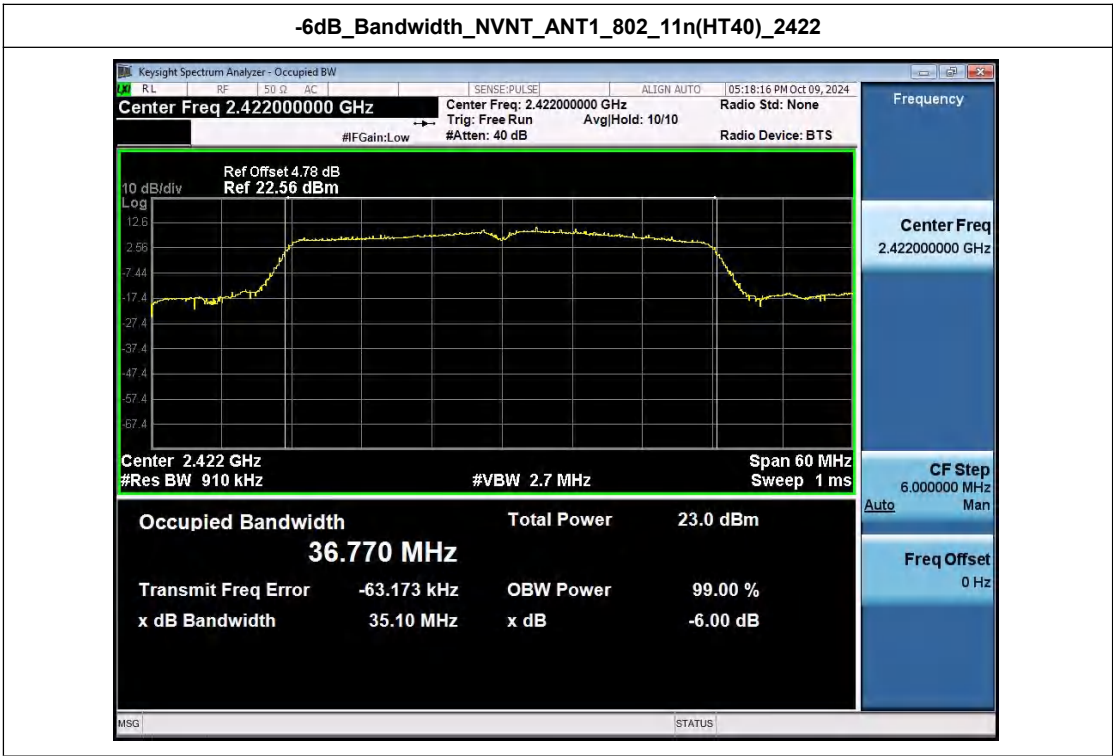
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412





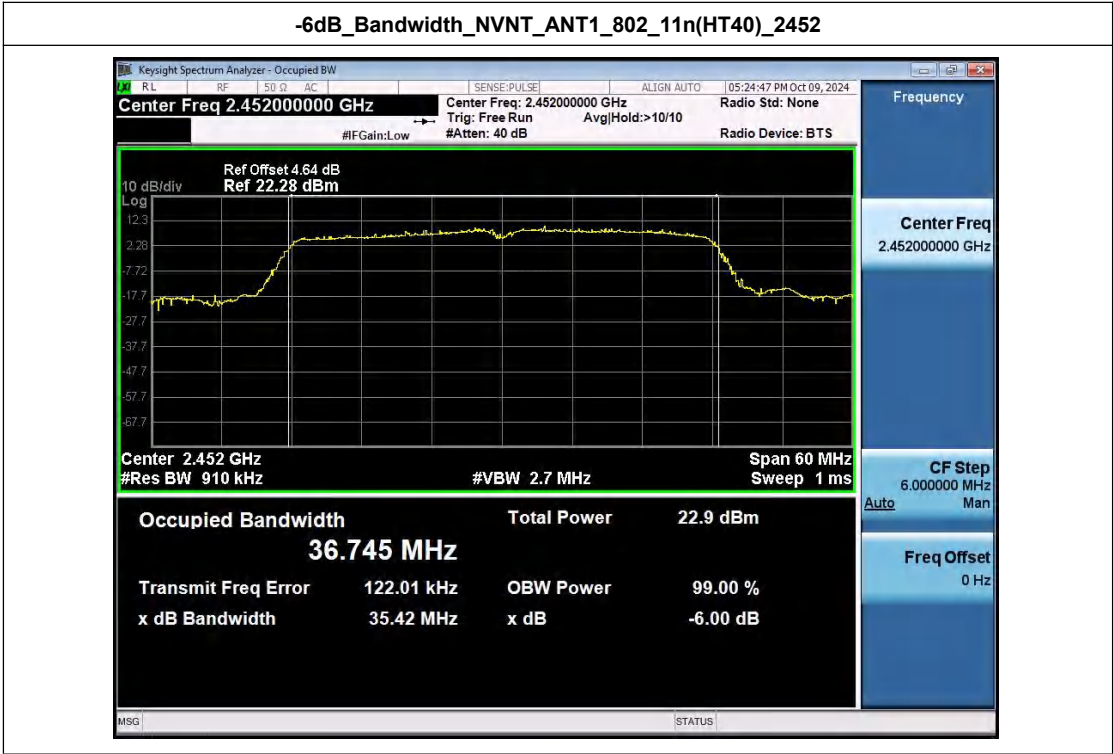
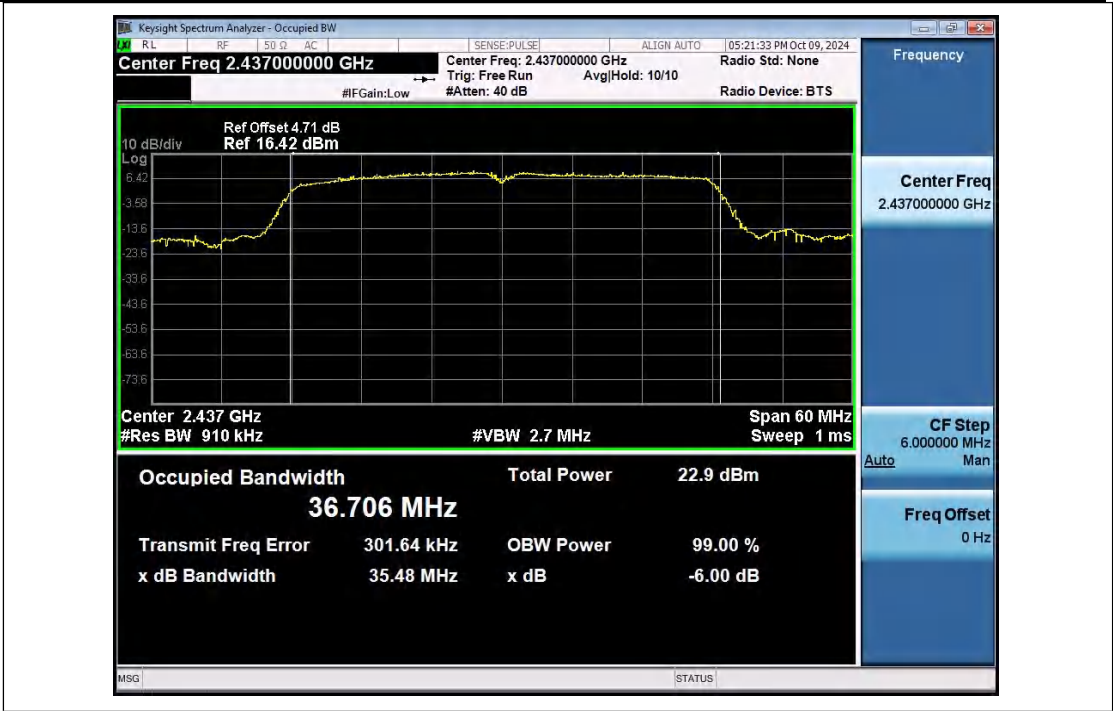
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





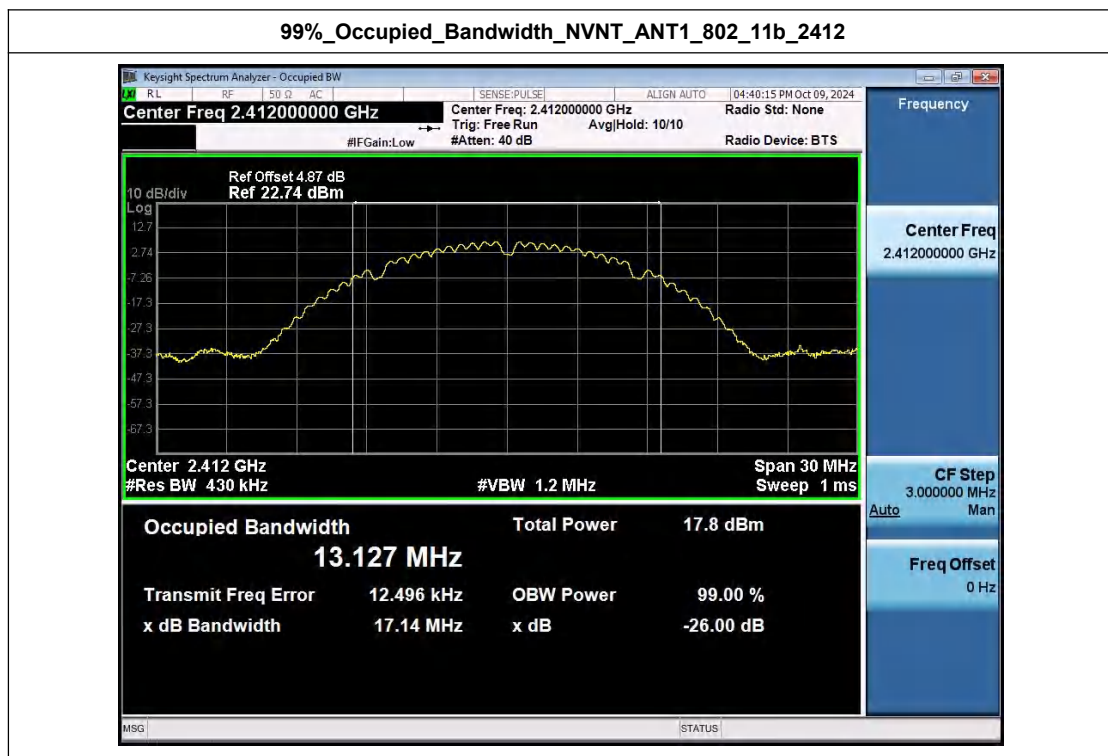
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437





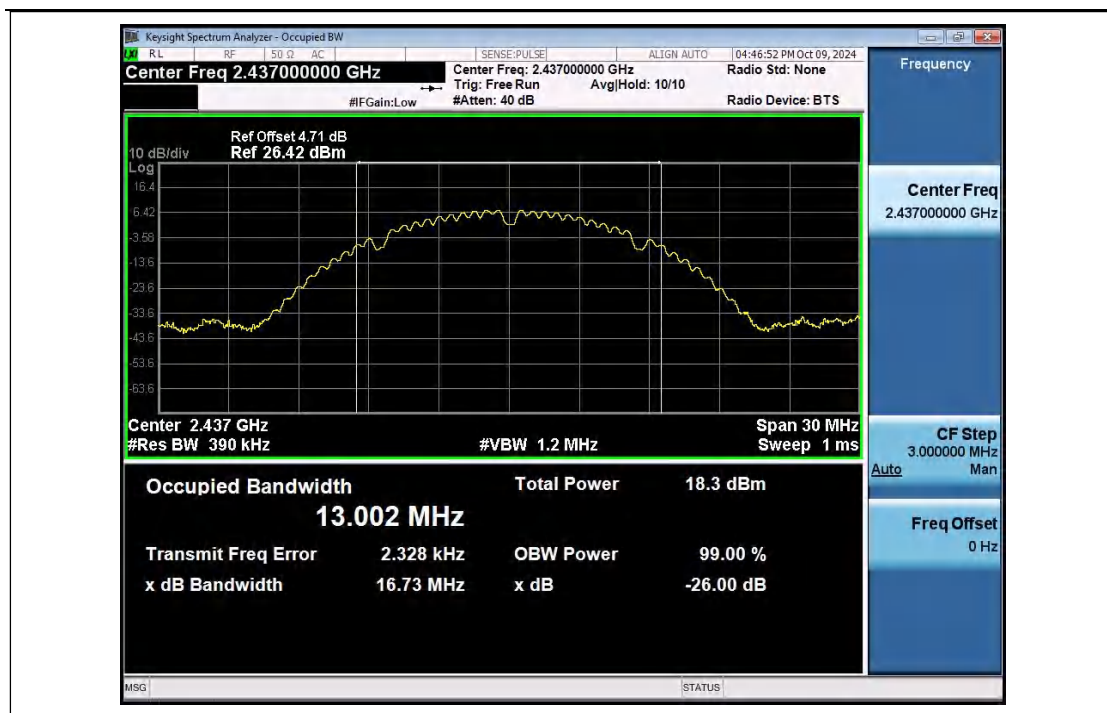
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.127
NVNT	ANT1	802.11b	2437.00	13.002
NVNT	ANT1	802.11b	2462.00	12.705
NVNT	ANT1	802.11g	2412.00	17.265
NVNT	ANT1	802.11g	2437.00	17.161
NVNT	ANT1	802.11g	2462.00	17.171
NVNT	ANT1	802.11n(HT20)	2412.00	18.321
NVNT	ANT1	802.11n(HT20)	2437.00	18.218
NVNT	ANT1	802.11n(HT20)	2462.00	18.232
NVNT	ANT1	802.11n(HT40)	2422.00	36.815
NVNT	ANT1	802.11n(HT40)	2437.00	36.688
NVNT	ANT1	802.11n(HT40)	2452.00	36.776

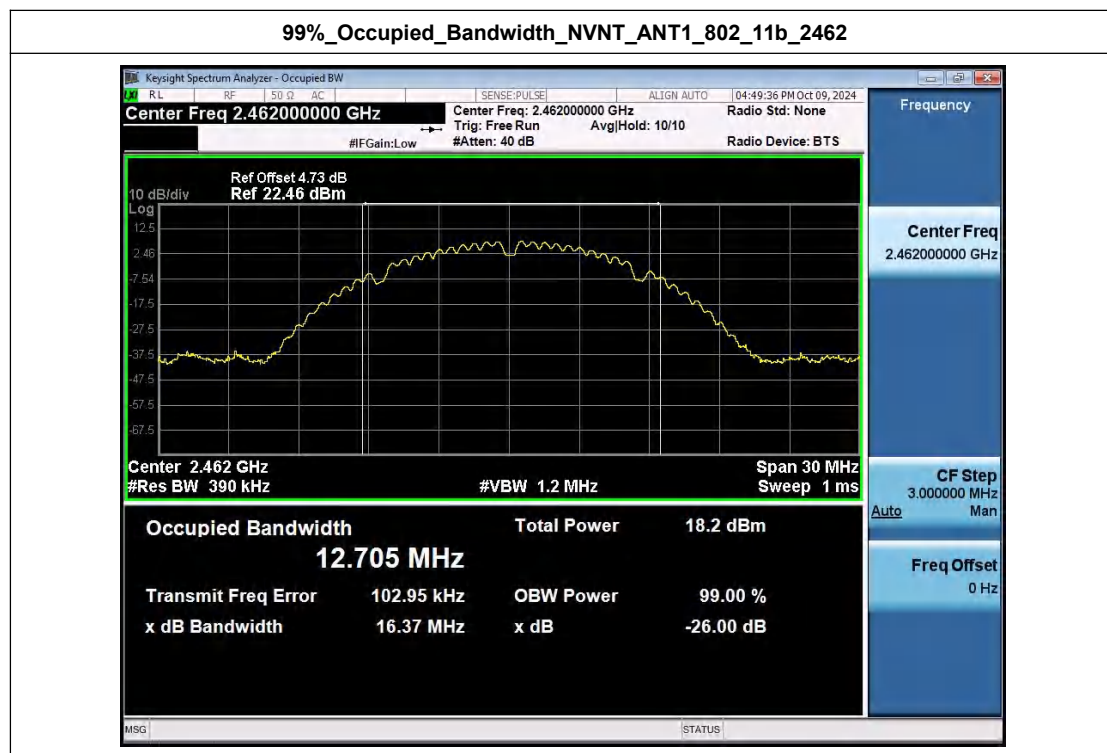


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437





99% Occupied Bandwidth NVNT_ANT1_802_11b_2462

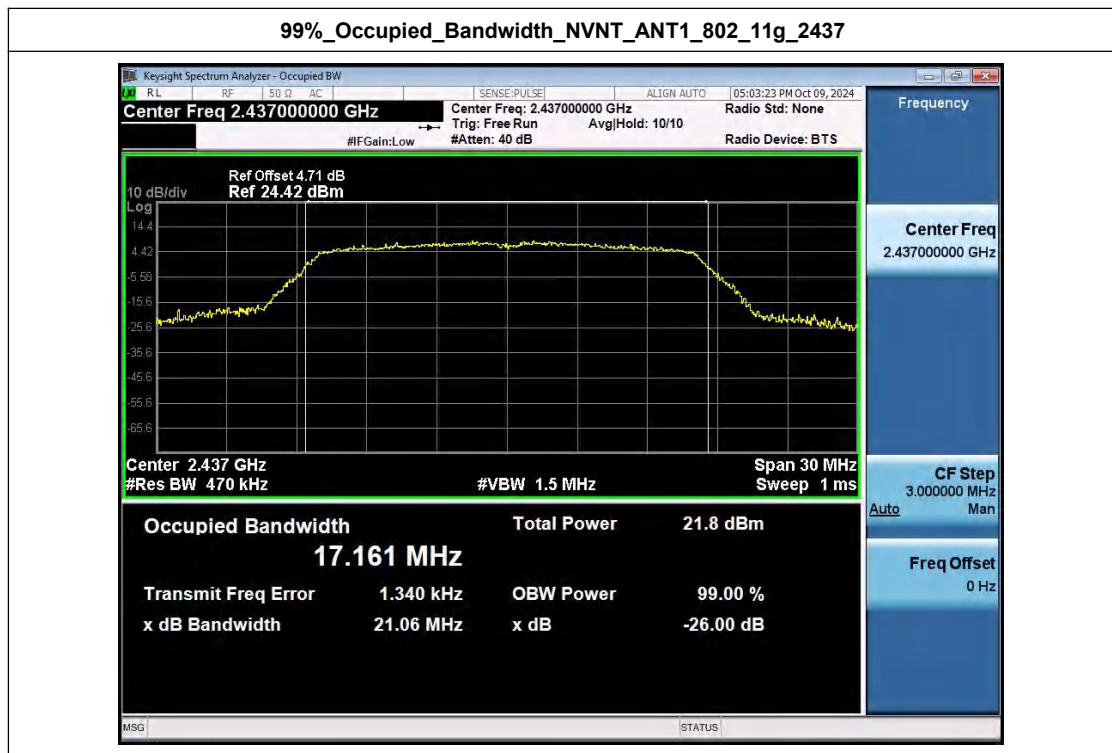


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



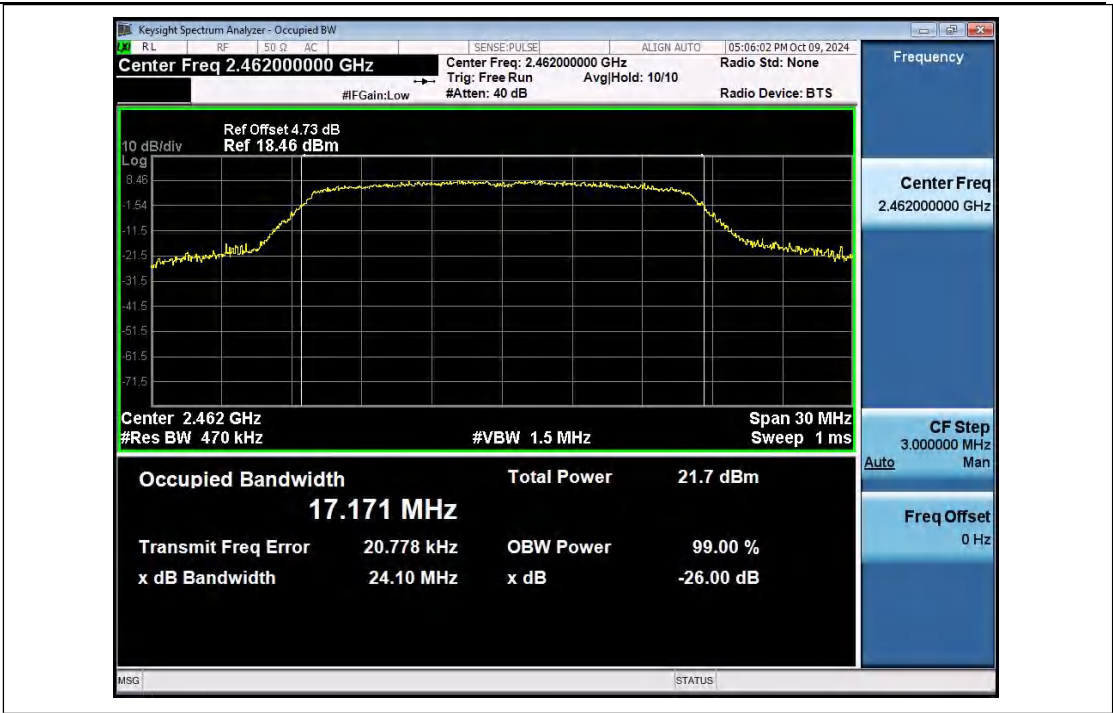


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437

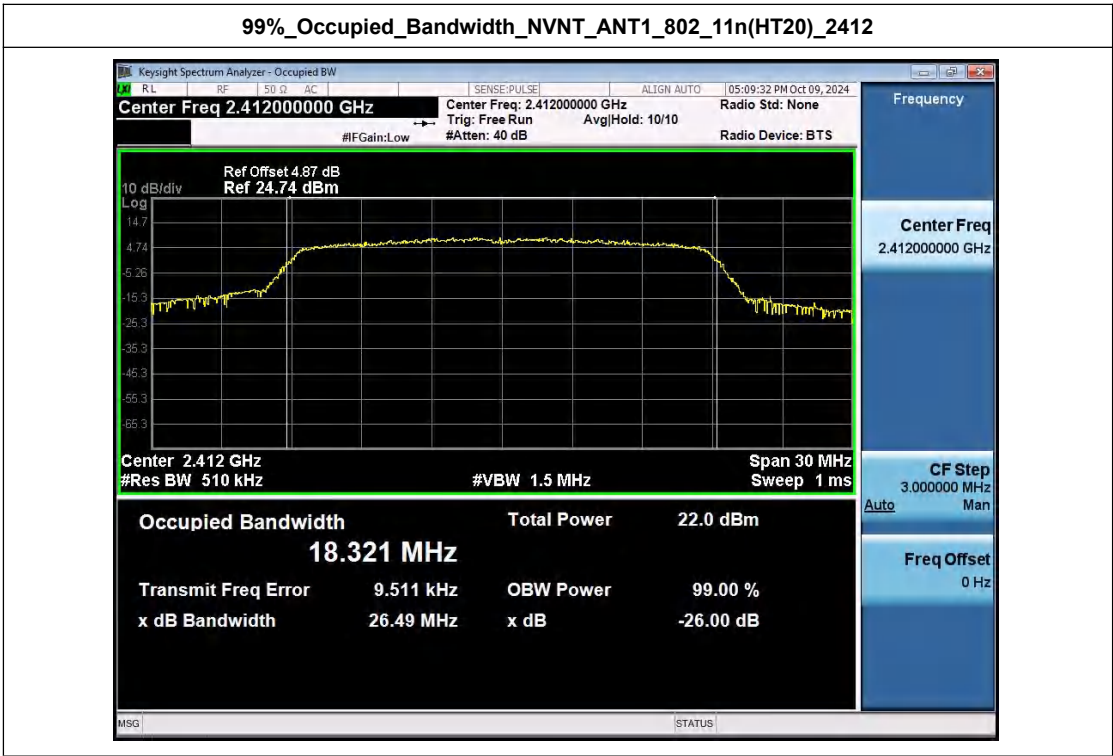


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462





99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412

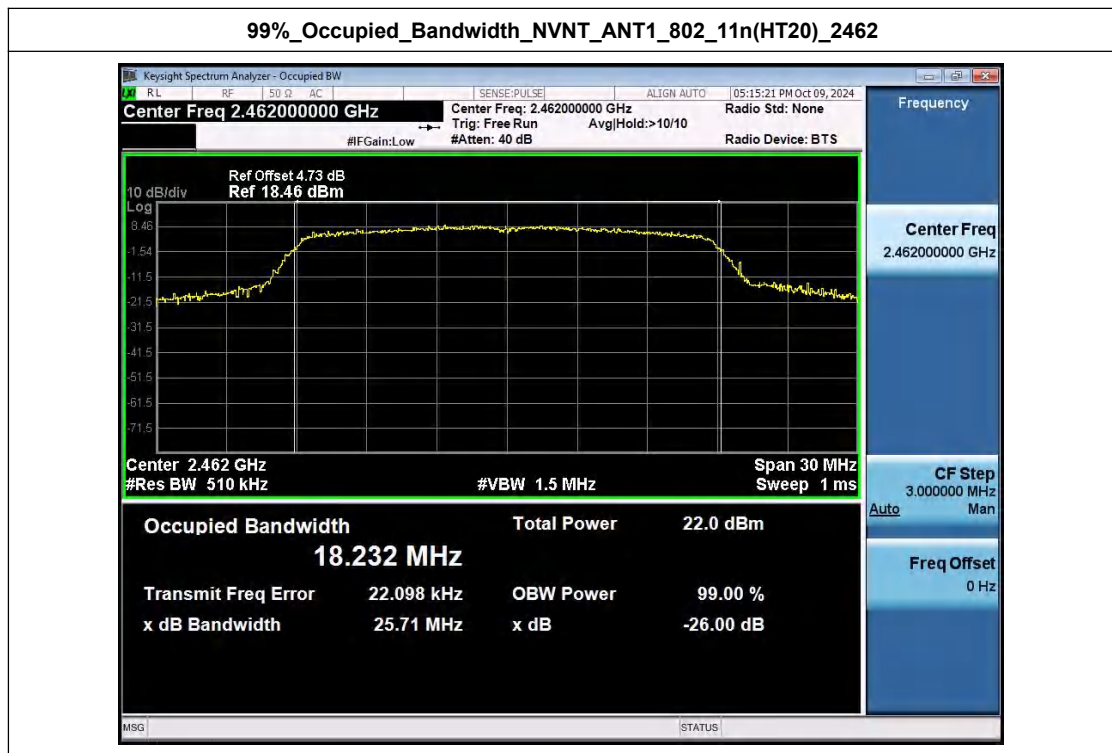


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



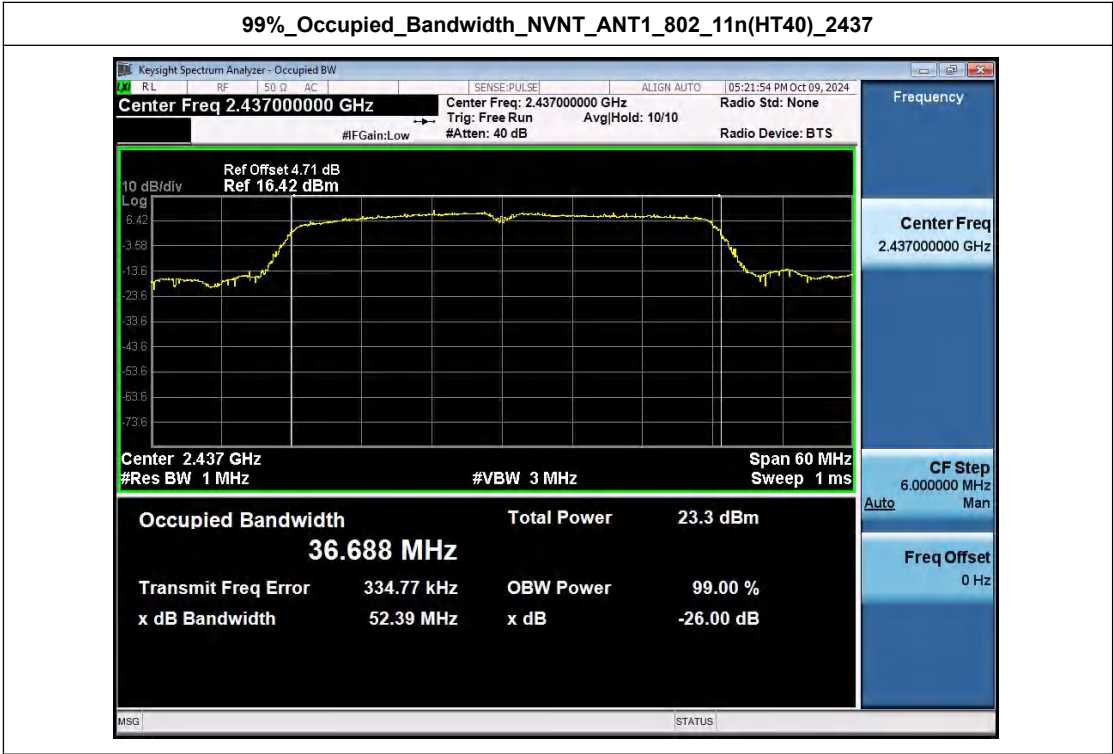
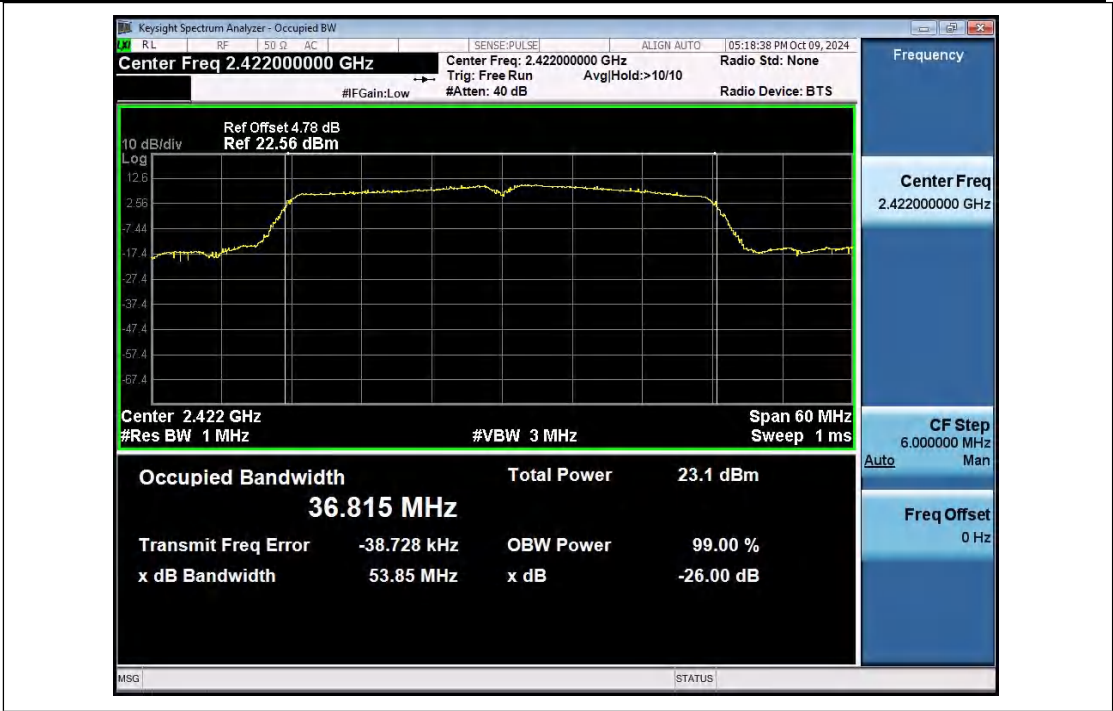


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



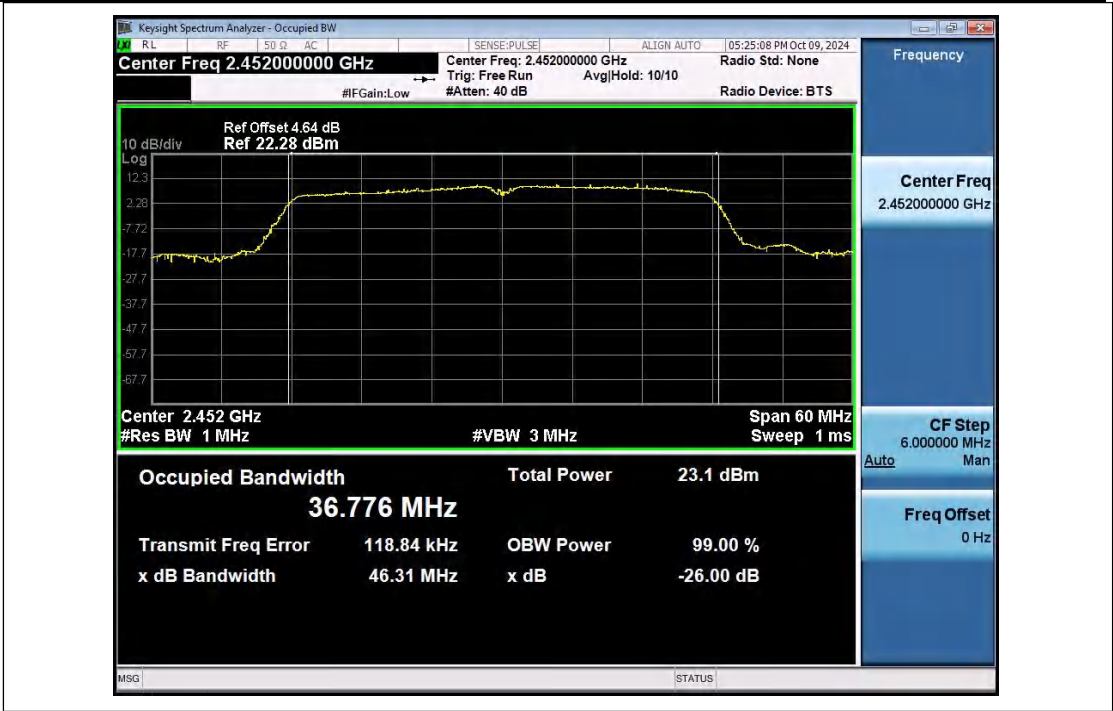
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422





99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452





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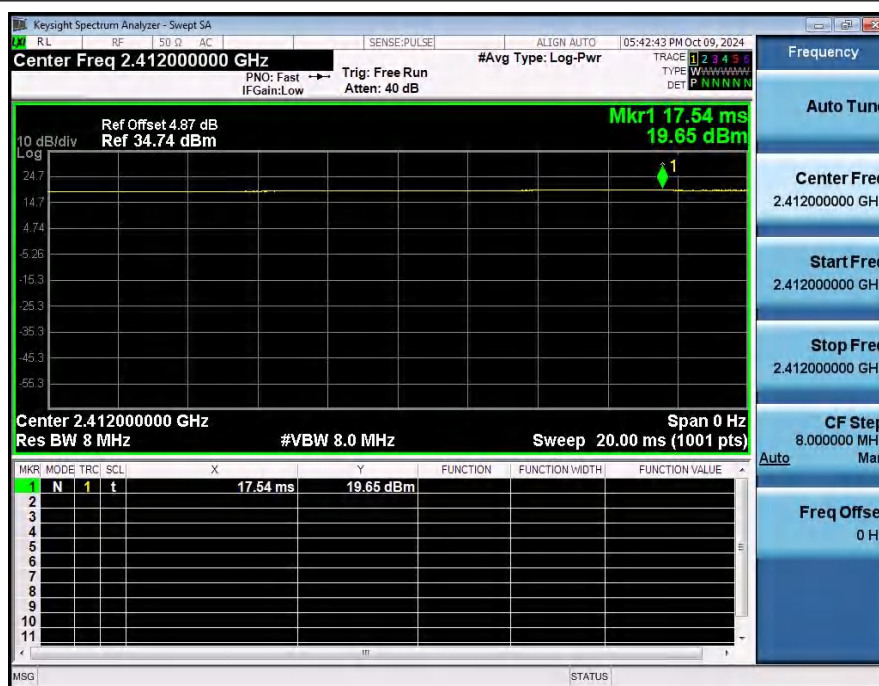
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Appendix C: Duty Cycle

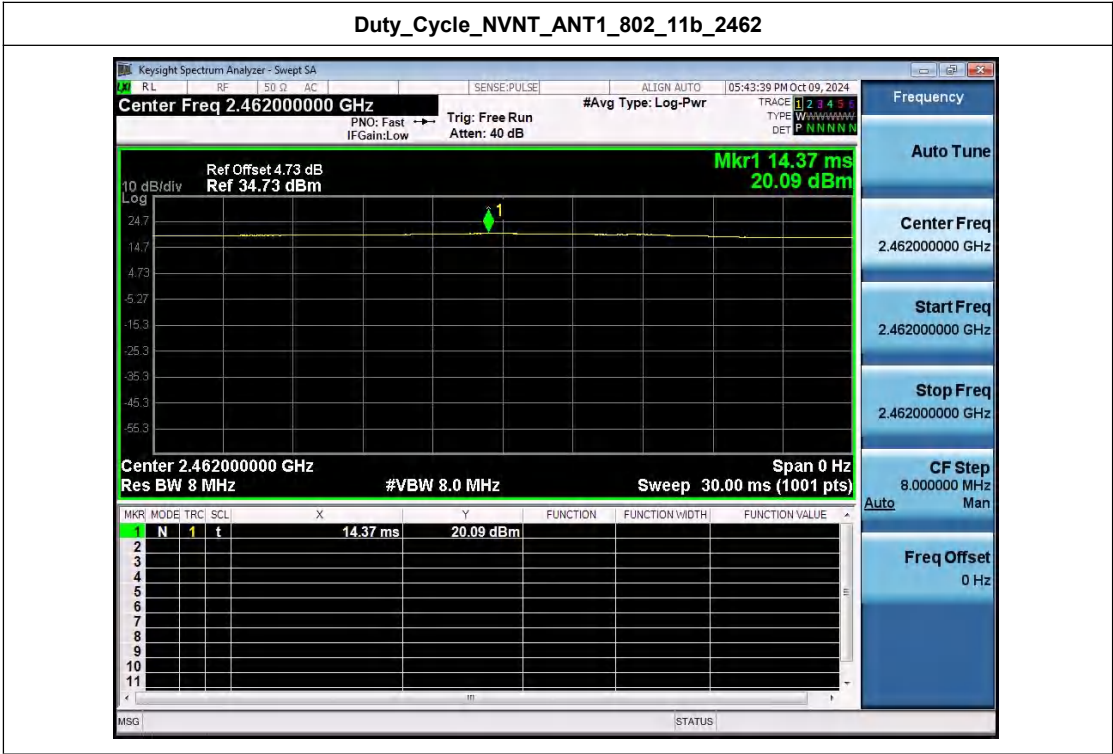
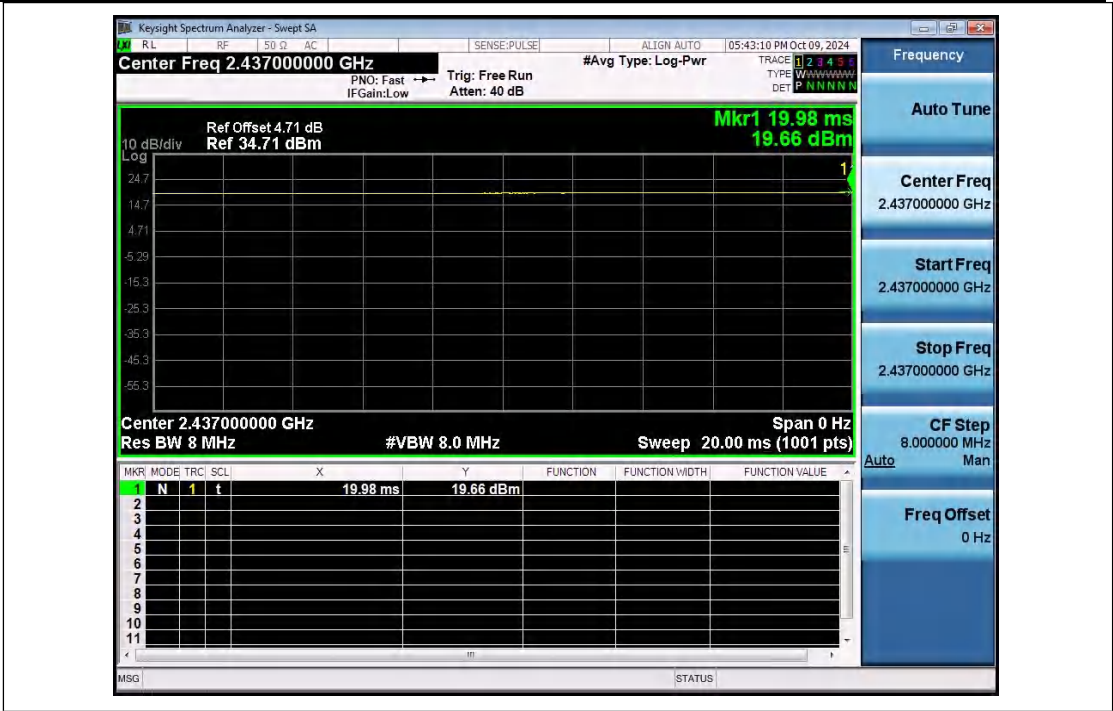
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00

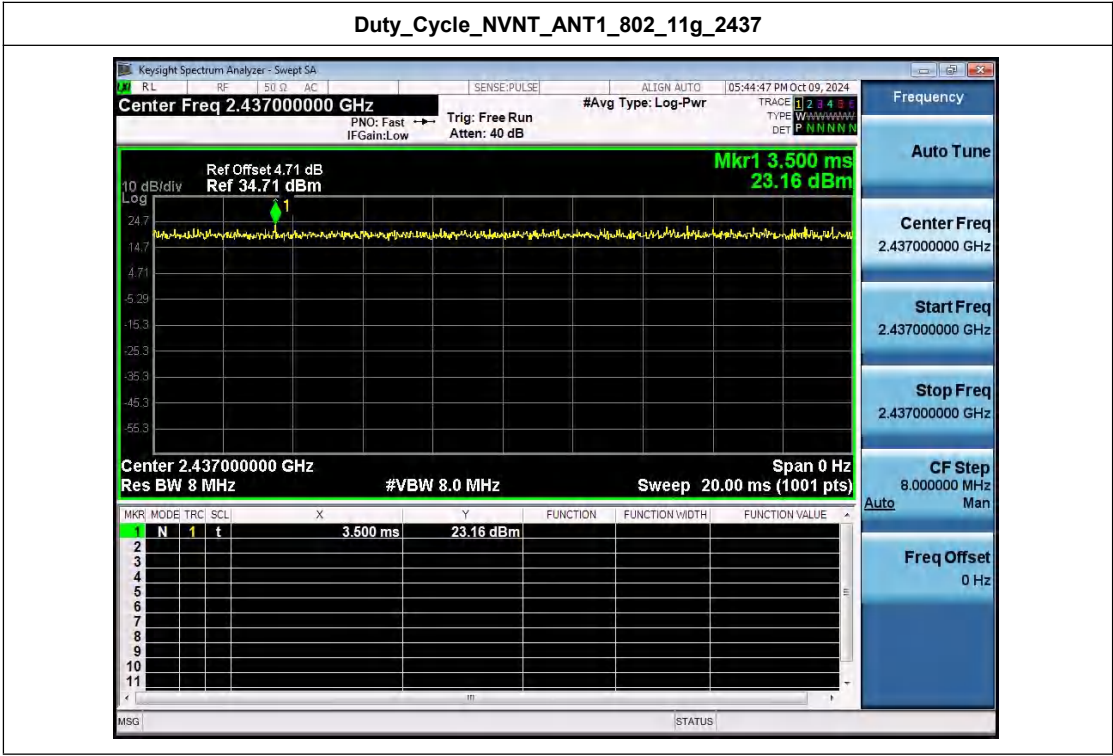
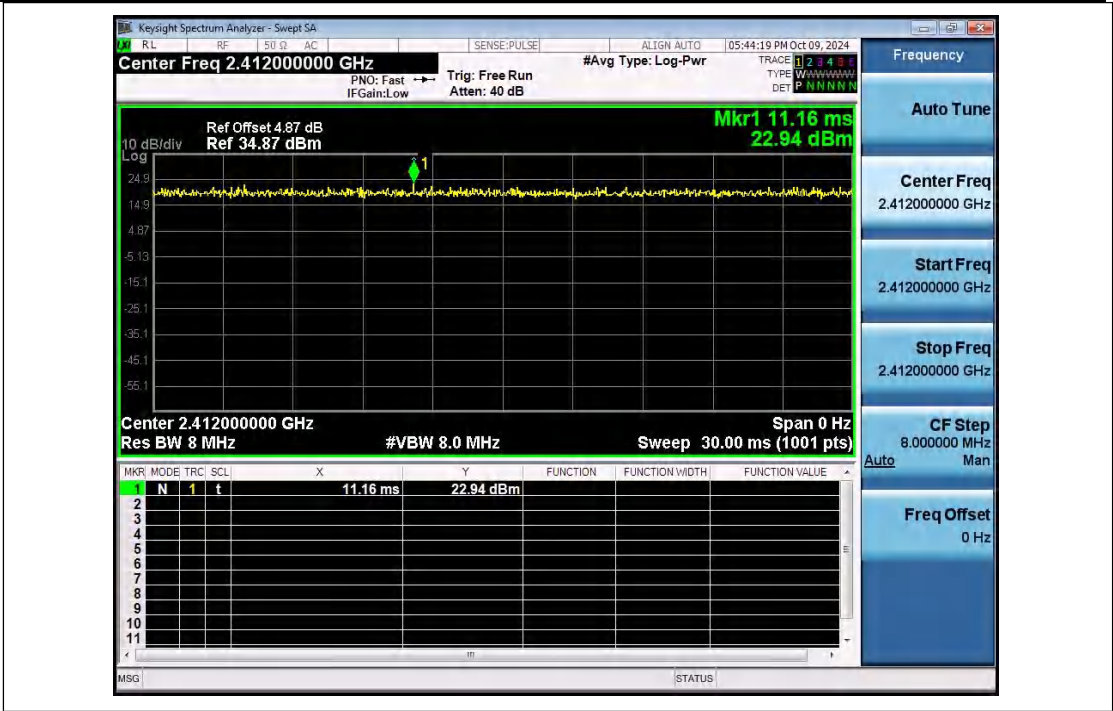
Duty_Cycle_NVNT_ANT1_802_11b_2412



Duty_Cycle_NVNT_ANT1_802_11b_2437

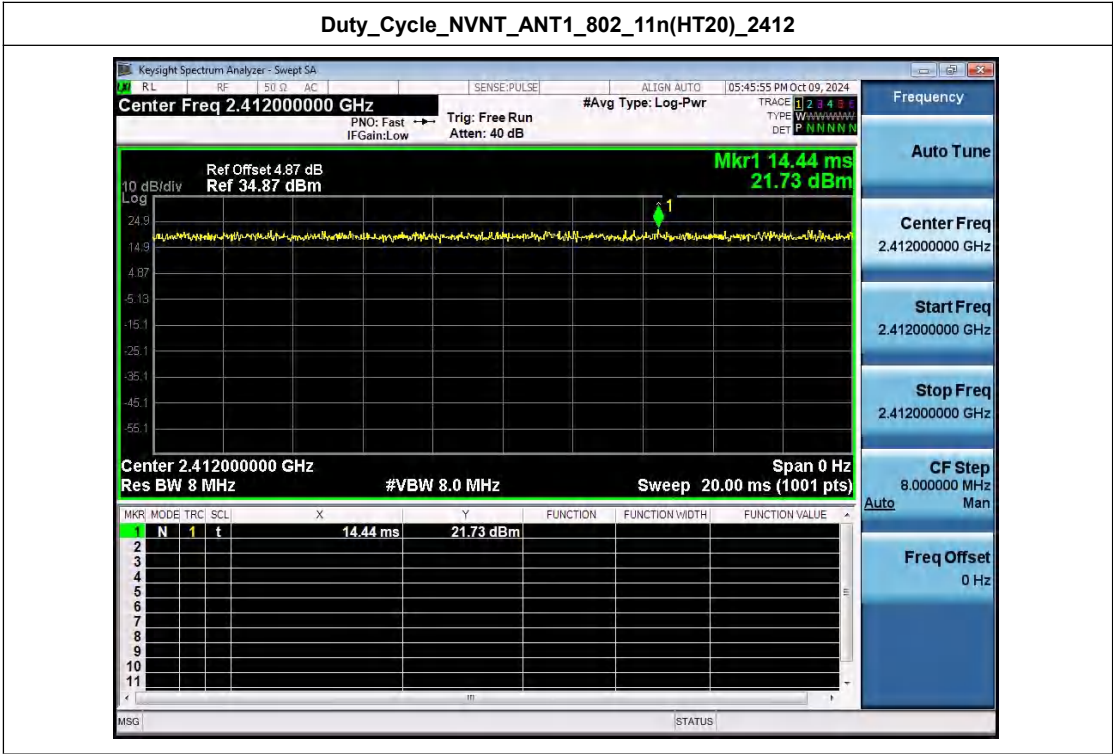






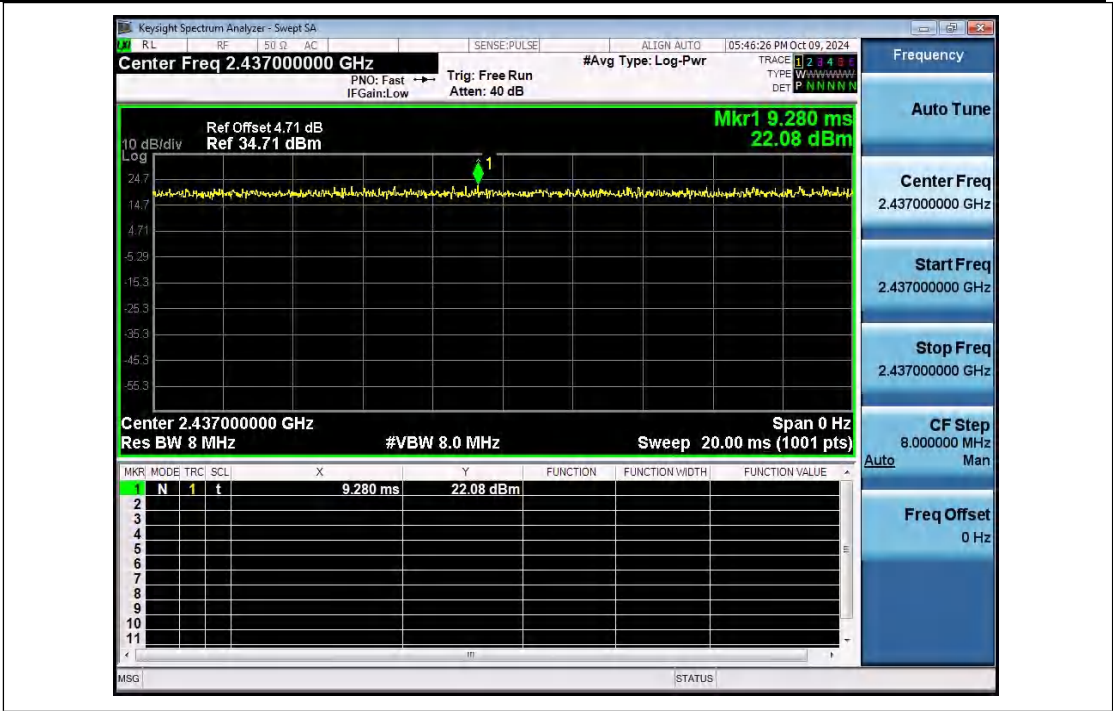
Duty_Cycle_NVNT_ANT1_802_11g_2462



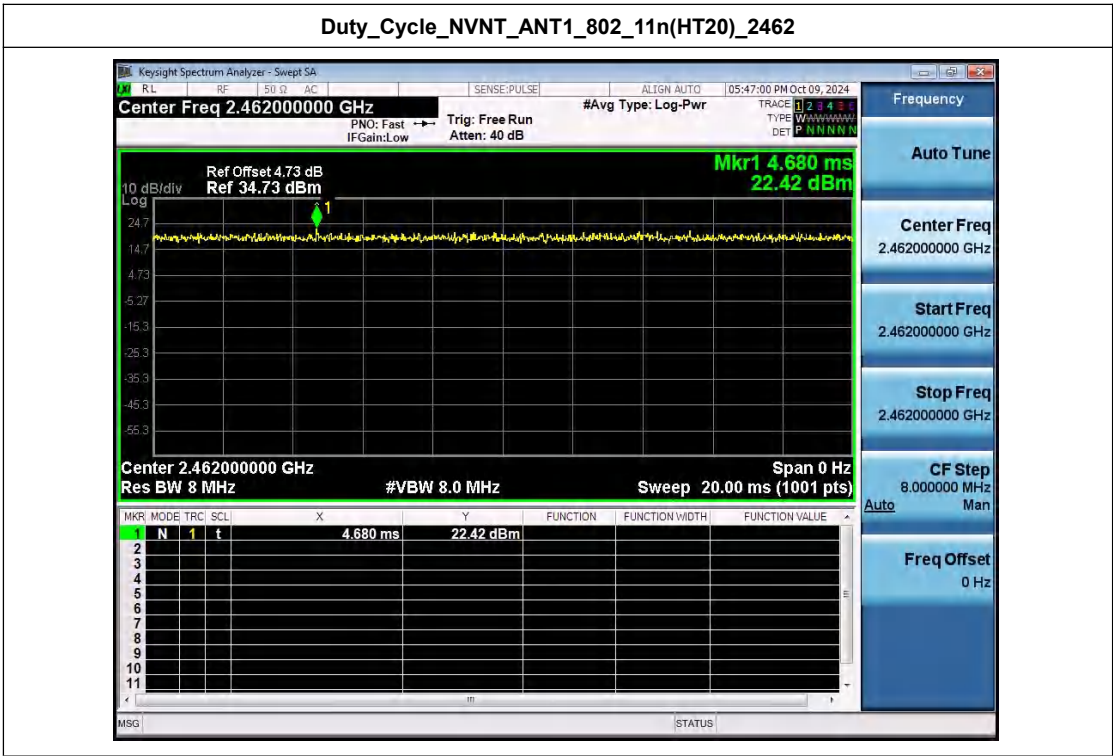


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



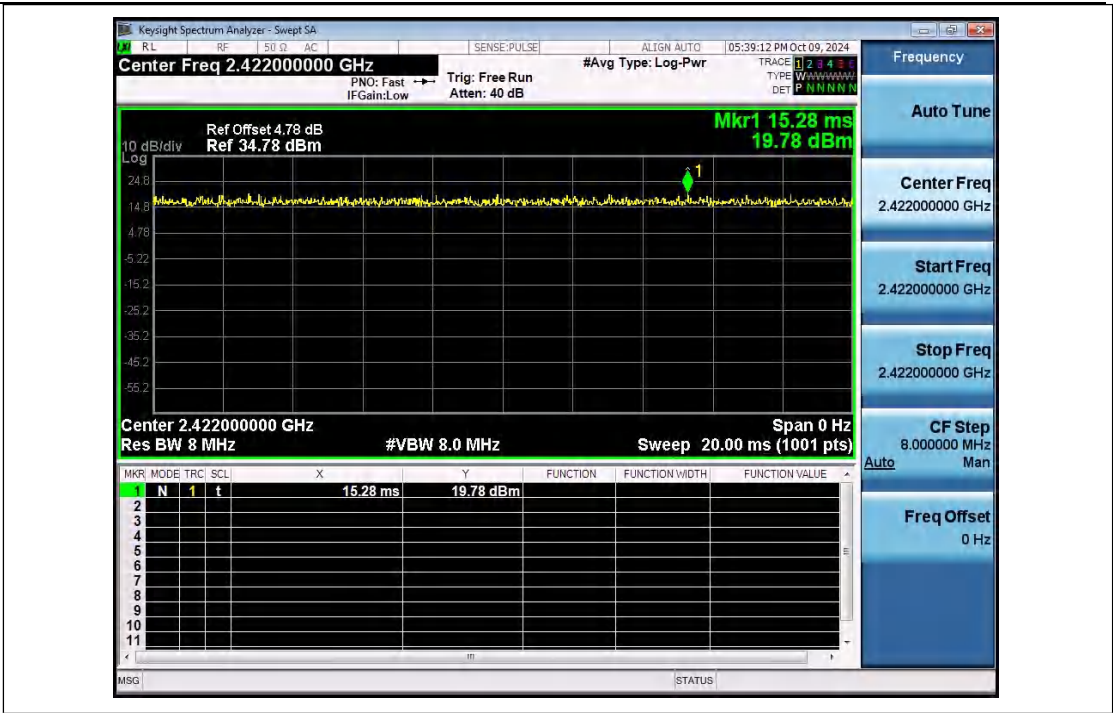


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462

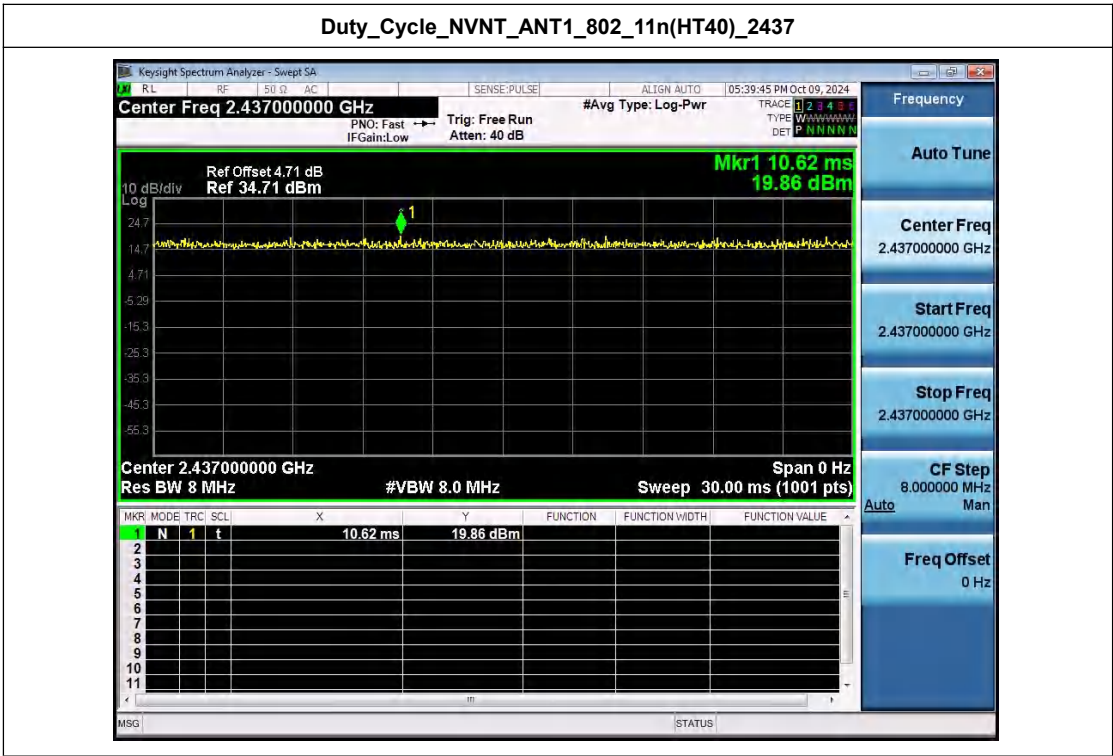


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



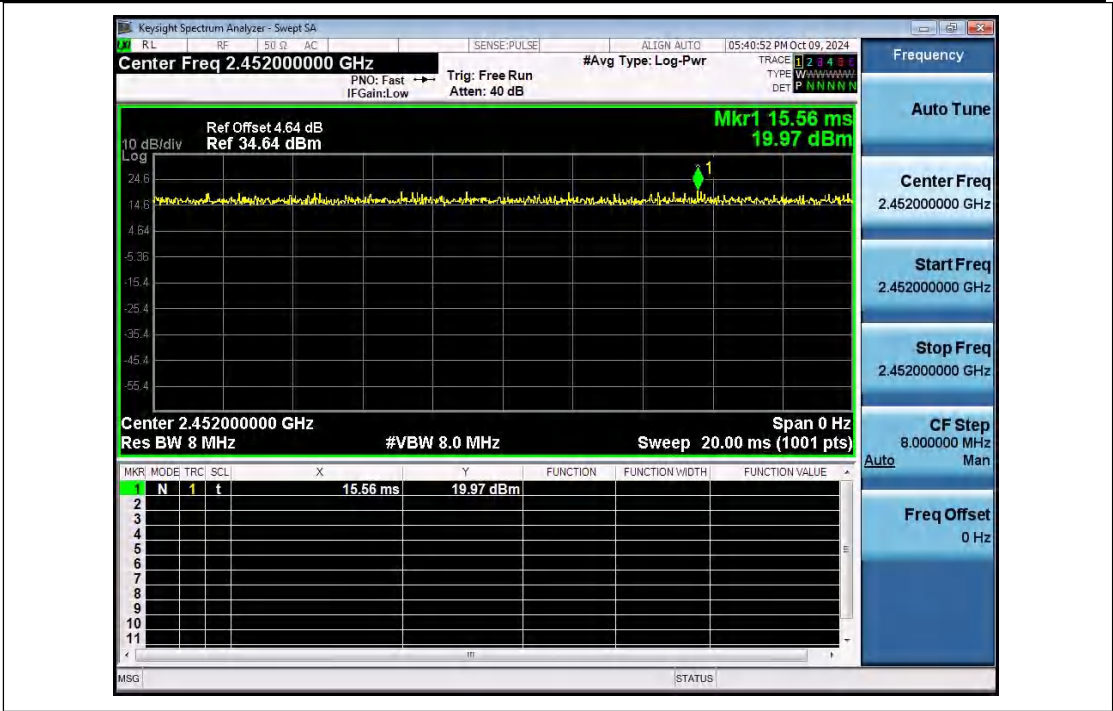


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452





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Appendix D: MAX. Output Power

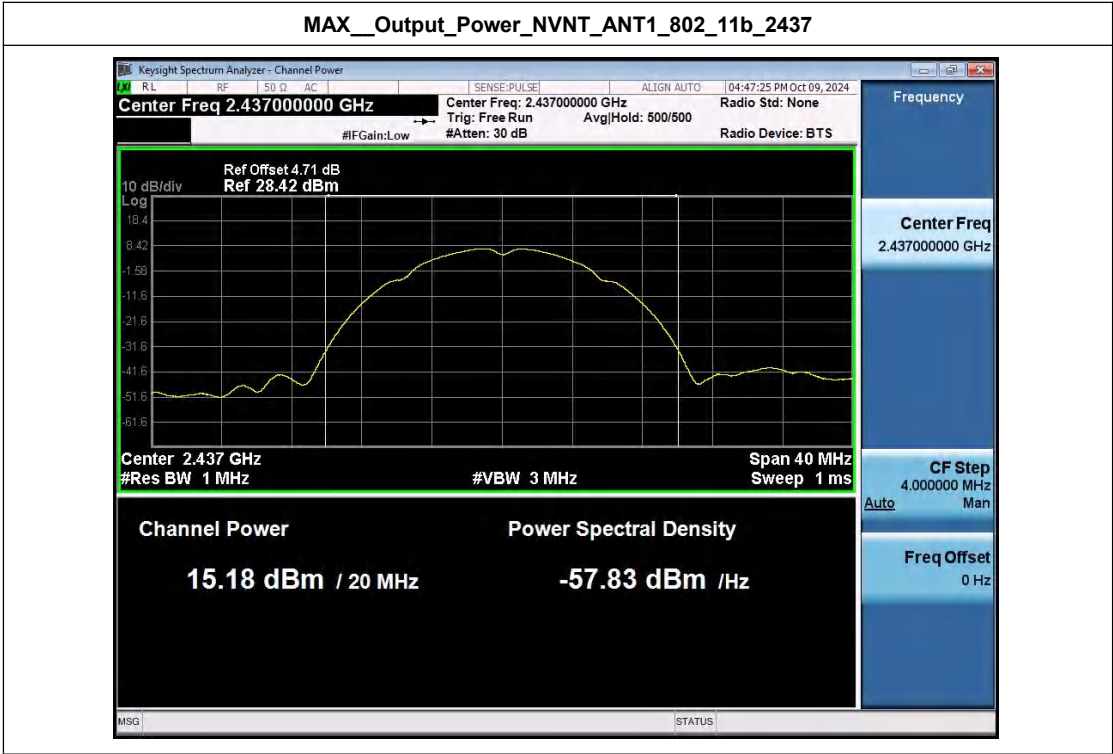
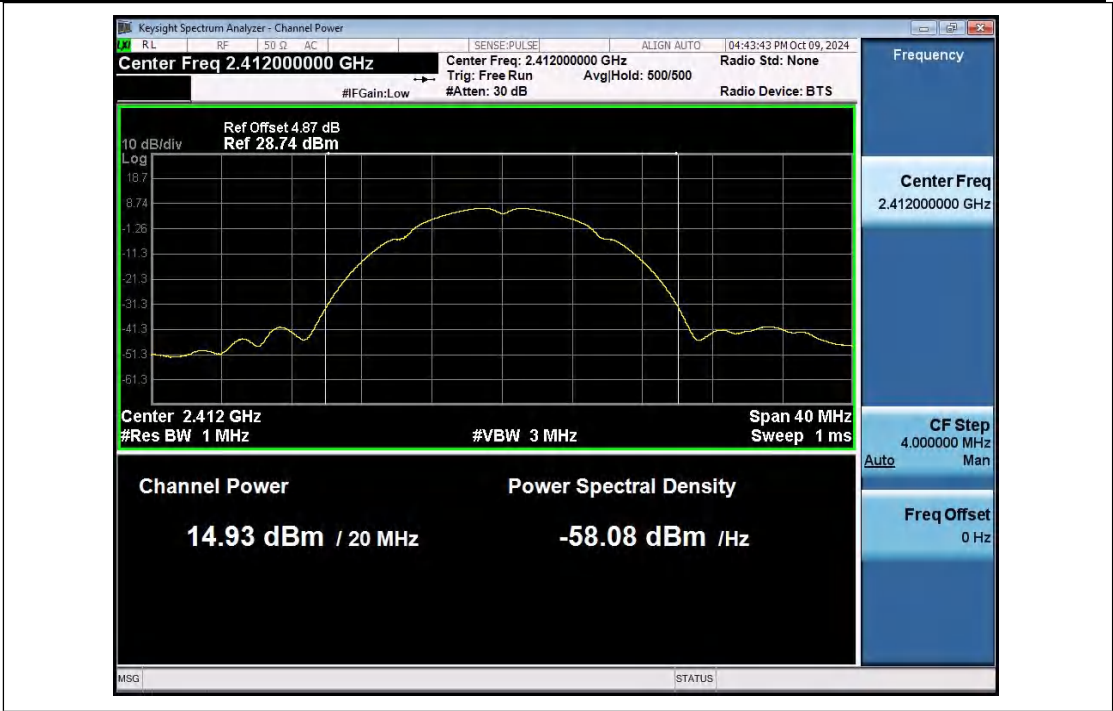
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)(RBW=1MHz)	Duty factor(dB)	Total Power(dBm)(RBW=1MHz)	Total Power(dBm)(RBW=430kHz)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	14.93	0.00	14.93	11.26	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	15.18	0.00	15.18	11.51	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	15.05	0.00	15.05	11.38	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	14.32	0.00	14.32	10.65	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.43	0.00	14.43	10.76	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.37	0.00	14.37	10.70	30	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	RMS	14.66	0.00	14.66	10.99	30	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	RMS	14.88	0.00	14.88	11.21	30	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	RMS	14.70	0.00	14.70	11.03	30	Pass
NVNT	ANT1	802.11n(HT 40)	2422.00	RMS	14.88	0.13	15.01	11.34	30	Pass
NVNT	ANT1	802.11n(HT 40)	2437.00	RMS	14.98	0.13	15.11	11.44	30	Pass
NVNT	ANT1	802.11n(HT 40)	2452.00	RMS	14.80	0.13	14.93	11.26	30	Pass

Note: 1. The cable loss are compensated in the graph.

2. $\text{Total Power(dBm)(RBW=430kHz)} = \text{Total Power(dBm)(RBW=1MHz)} + 10 * \text{LOG}_{10}(430/1000)$

MAX__Output_Power_NVNT_ANT1_802_11b_2412



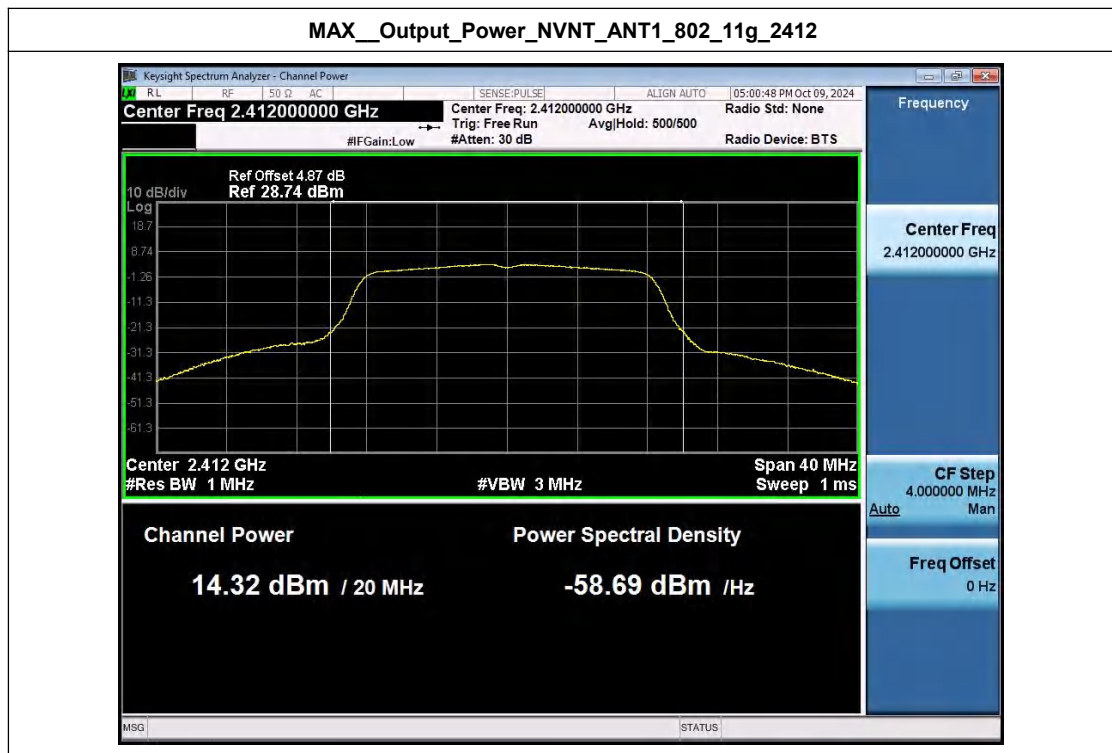


MAX__Output_Power_NVNT_ANT1_802_11b_2462



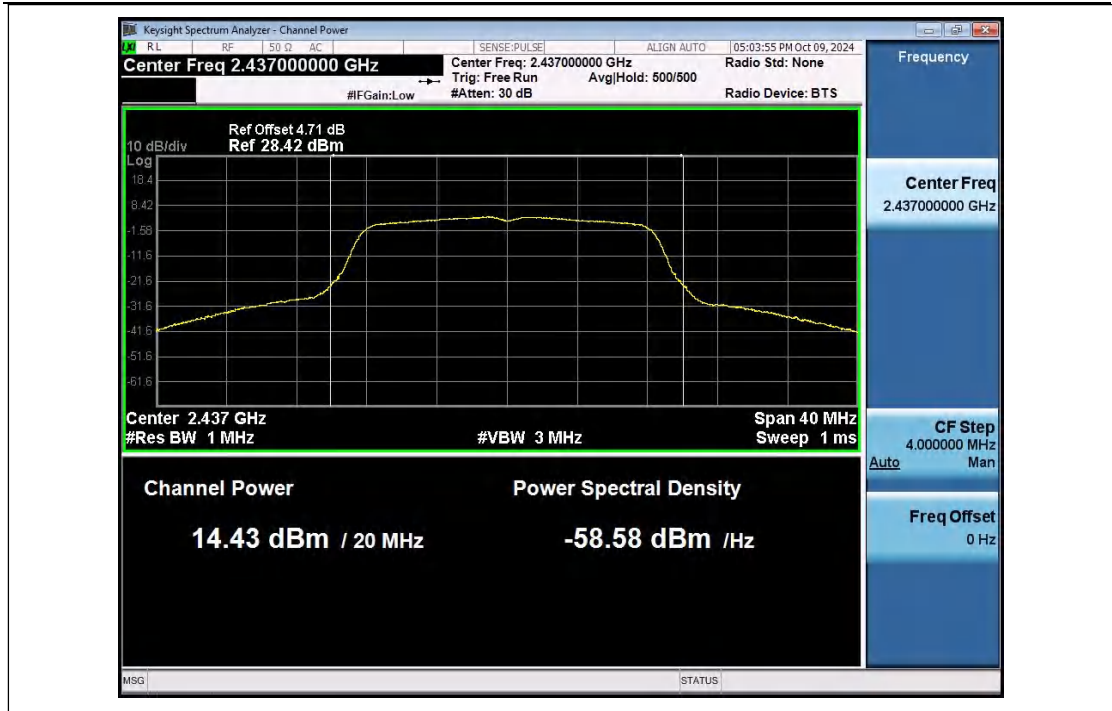


MAX_Output_Power_NVNT_ANT1_802_11g_2412

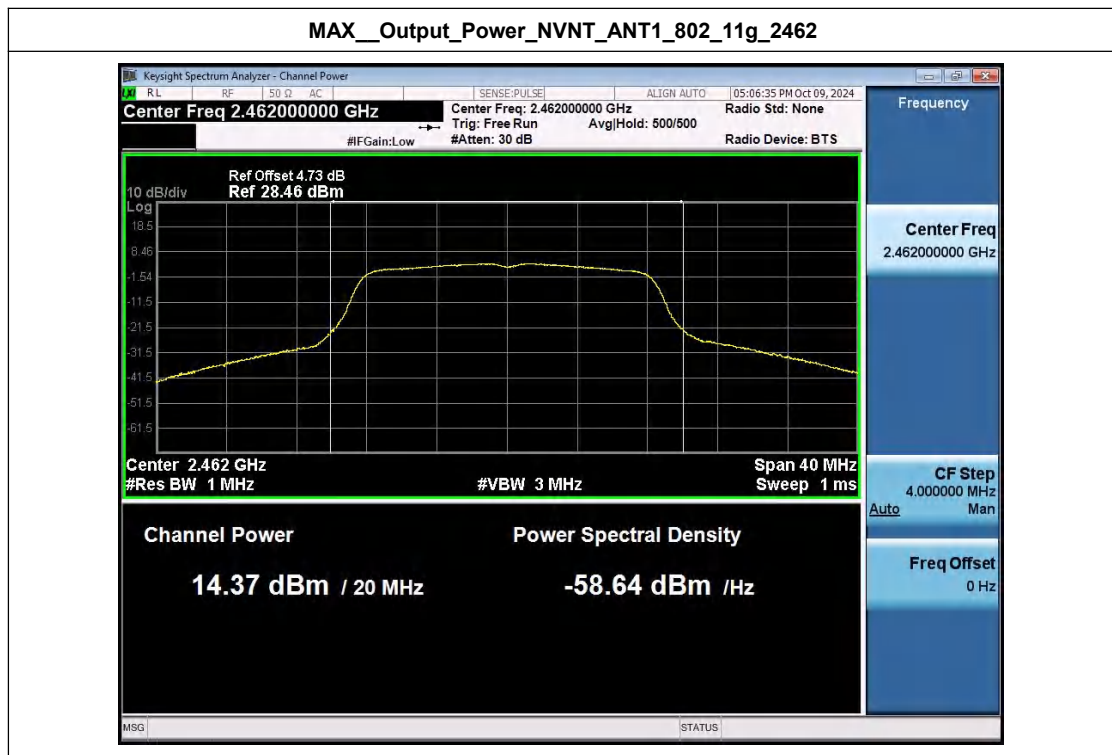


MAX_Output_Power_NVNT_ANT1_802_11g_2437





MAX_Output_Power_NVNT_ANT1_802_11g_2462

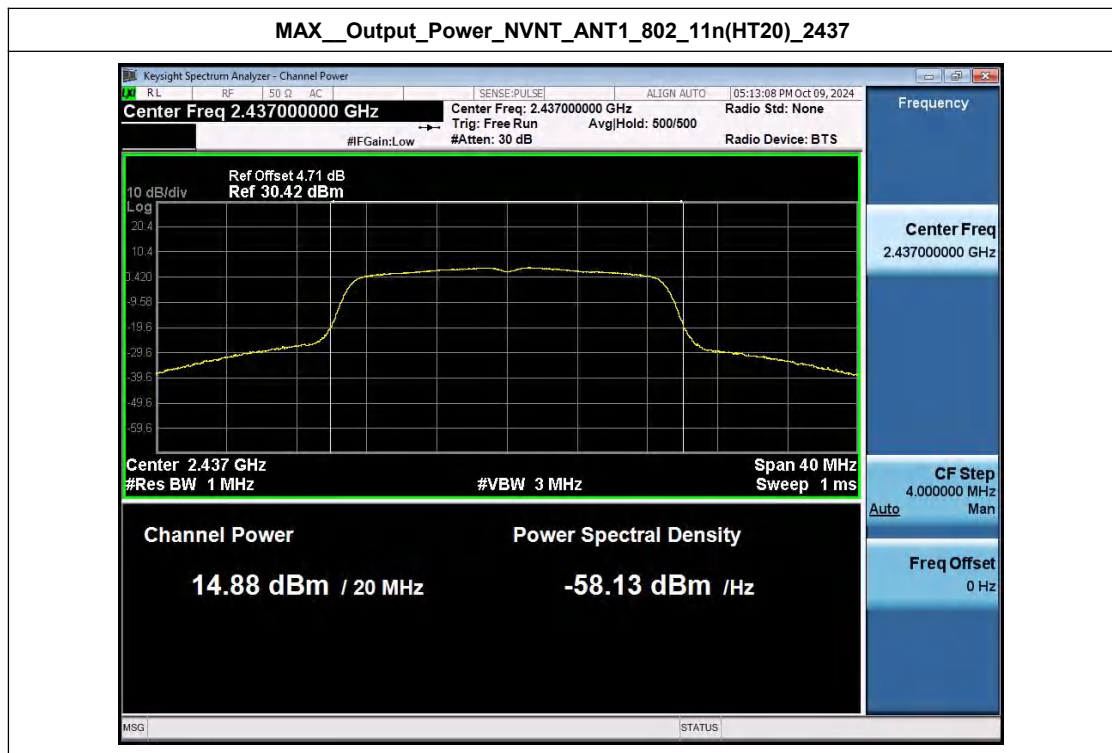


MAX_Output_Power_NVNT_ANT1_802_11n(HT20)_2412



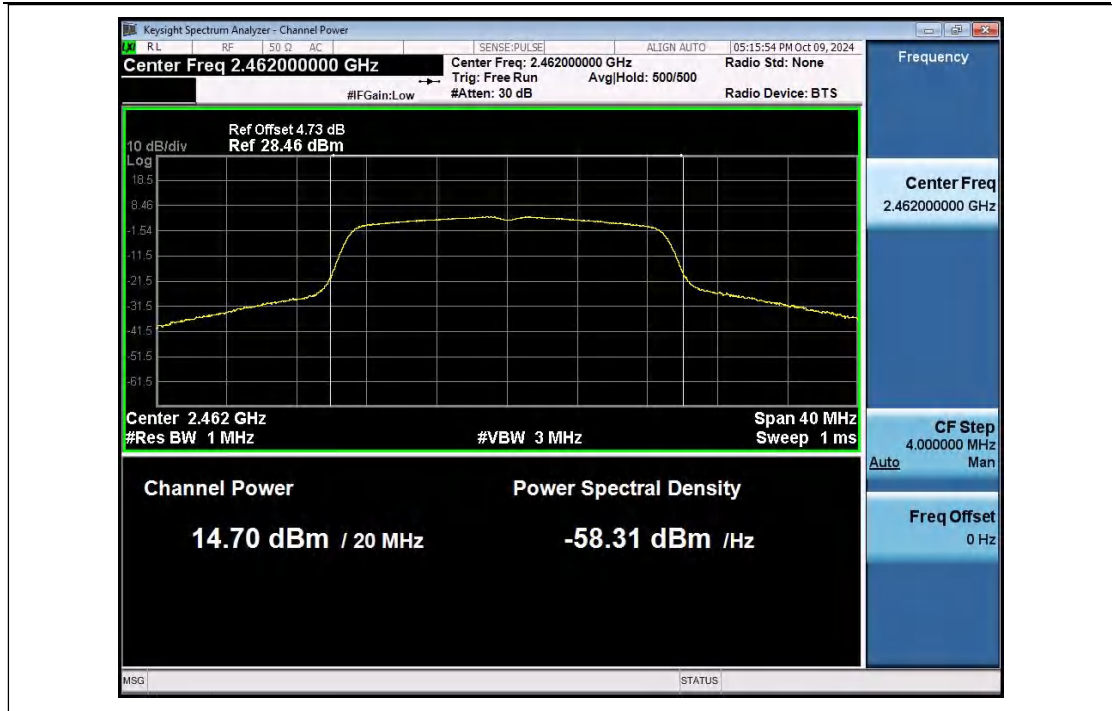


MAX_Output_Power_NVNT_ANT1_802_11n(HT20)_2437

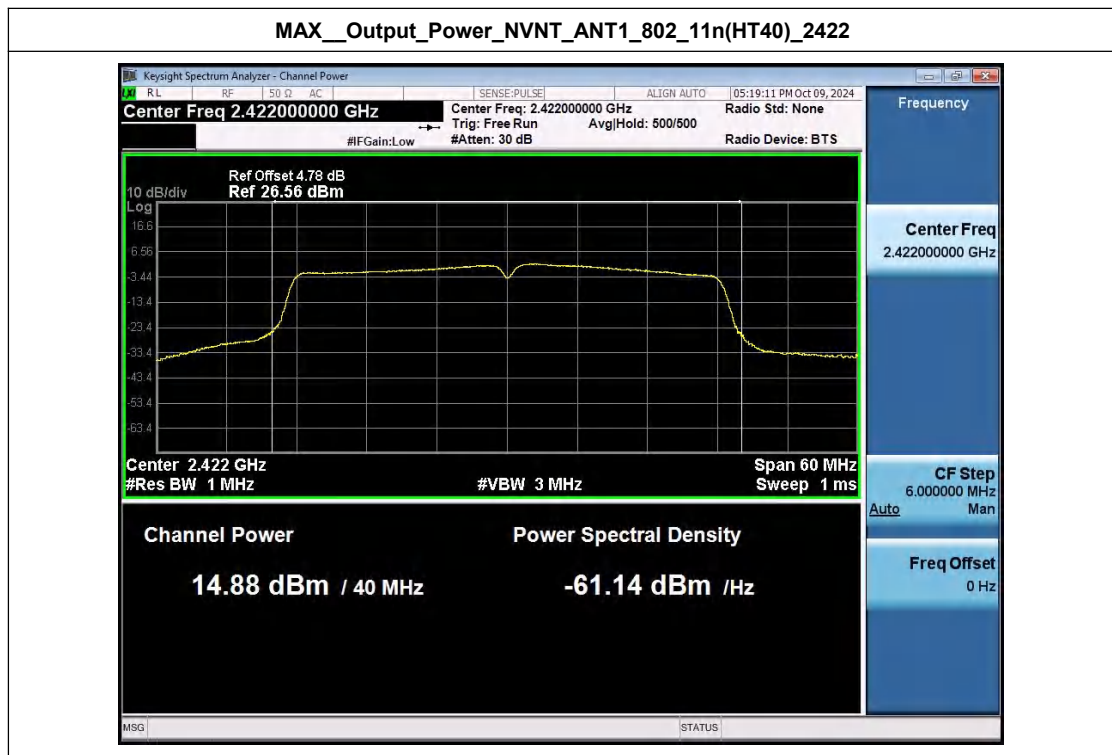


MAX_Output_Power_NVNT_ANT1_802_11n(HT20)_2462





MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422

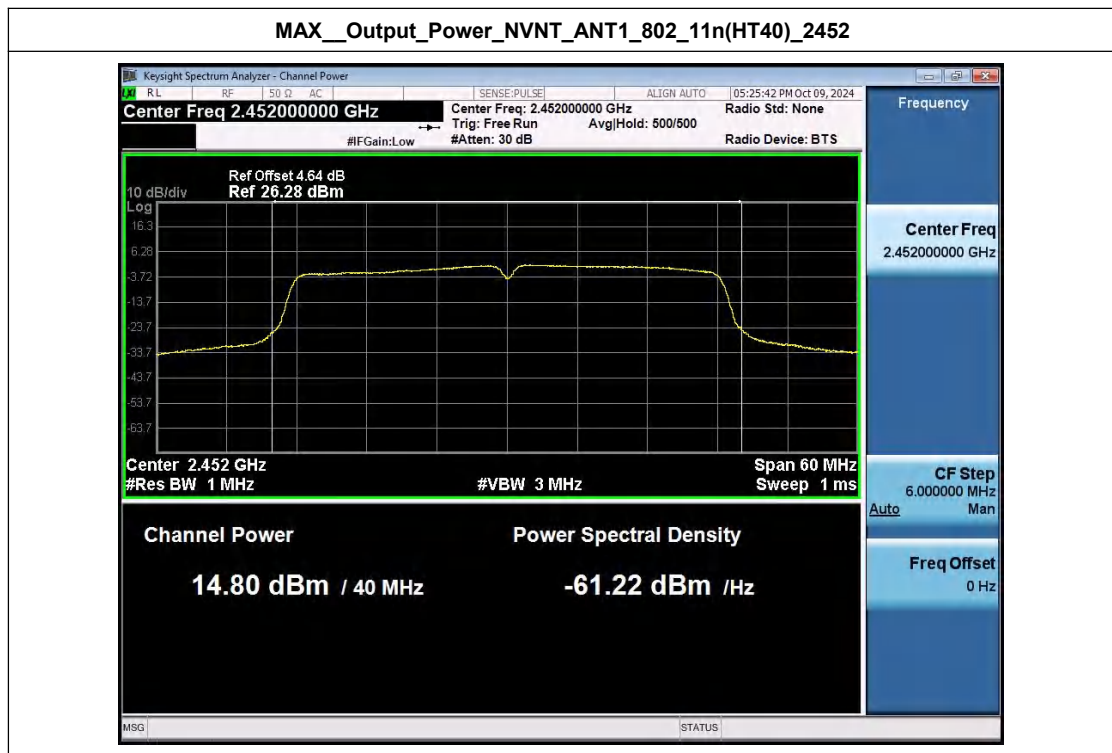


MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437





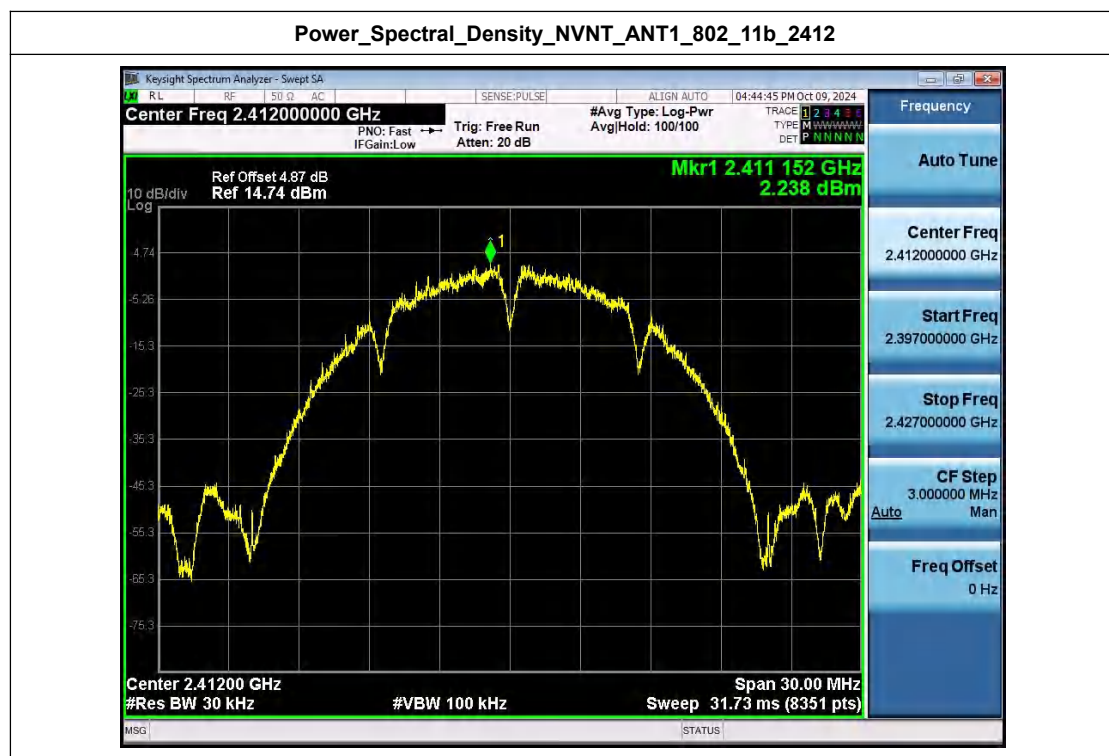
MAX_Output_Power_NVNT_ANT1_802_11n(HT40)_2452



Appendix E: Power Spectral Density

Condi on	Anten na	Modulation	Frequen cy (MHz)	PSD(dBm/30k Hz)	Duty factor(d B)	RB factor(d B)	PSD(dBm/3k Hz)	limit(dBm/3k Hz)	Resu lt
NVNT	ANT1	802.11b	2412.00	2.24	N/A	-10.00	-7.76	8	Pass
NVNT	ANT1	802.11b	2437.00	3.10	N/A	-10.00	-6.90	8	Pass
NVNT	ANT1	802.11b	2462.00	2.86	N/A	-10.00	-7.14	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.24	N/A	-10.00	-10.24	8	Pass
NVNT	ANT1	802.11g	2437.00	-0.63	N/A	-10.00	-10.63	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.23	N/A	-10.00	-10.23	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	0.25	N/A	-10.00	-9.75	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	0.73	N/A	-10.00	-9.27	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	0.40	N/A	-10.00	-9.60	8	Pass
NVNT	ANT1	802.11n(HT 40)	2422.00	-2.77	N/A	-10.00	-12.77	8	Pass
NVNT	ANT1	802.11n(HT 40)	2437.00	-3.33	N/A	-10.00	-13.33	8	Pass
NVNT	ANT1	802.11n(HT 40)	2452.00	-2.56	N/A	-10.00	-12.56	8	Pass

Note: The cable loss are compensated in the graph.



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Power_Spectral_Density_NVNT_ANT1_802_11b_2437



Power_Spectral_Density_NVNT_ANT1_802_11b_2462



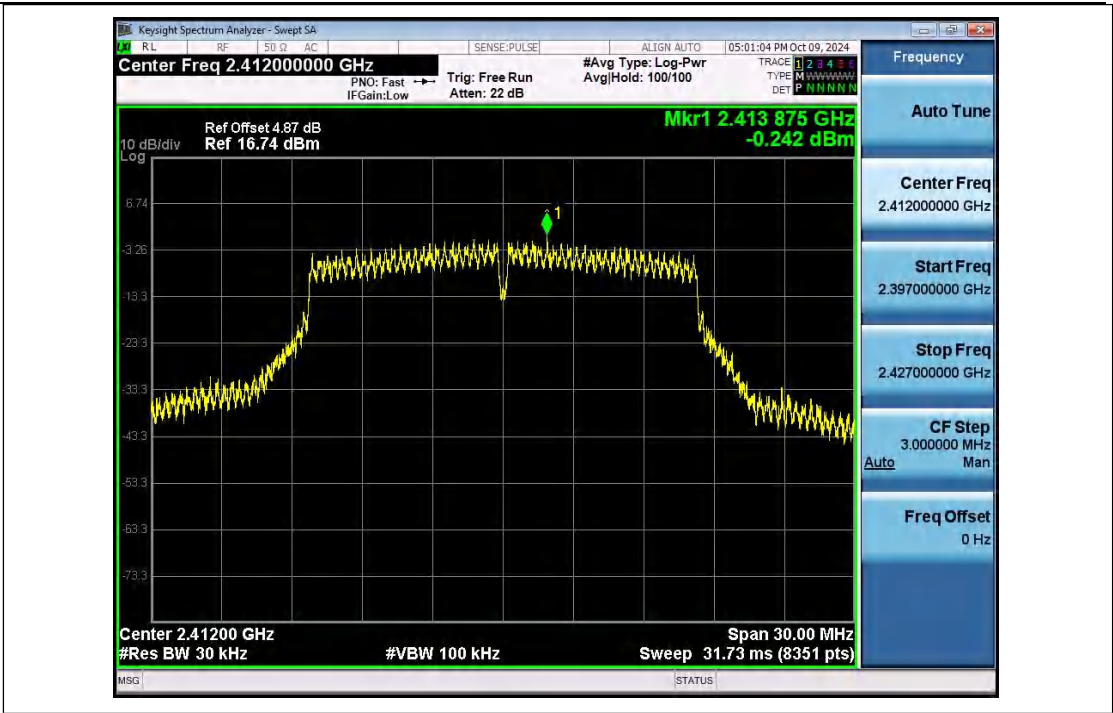
Power_Spectral_Density_NVNT_ANT1_802_11g_2412

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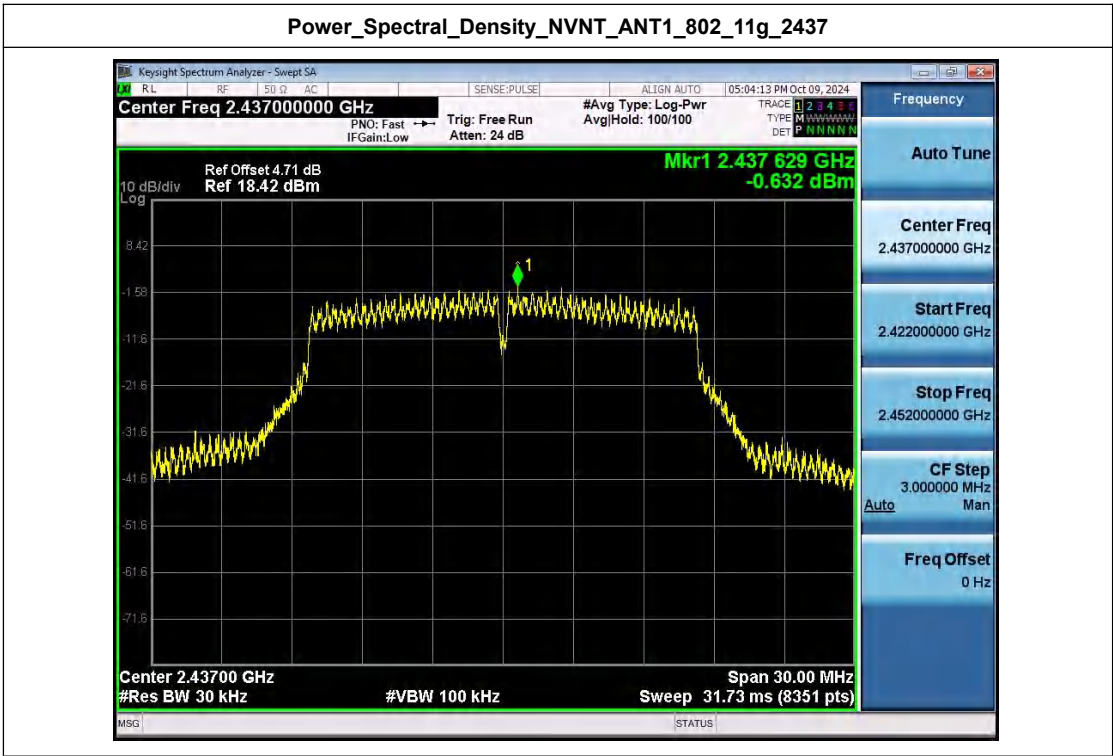
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Power_Spectral_Density_NVNT_ANT1_802_11g_2437

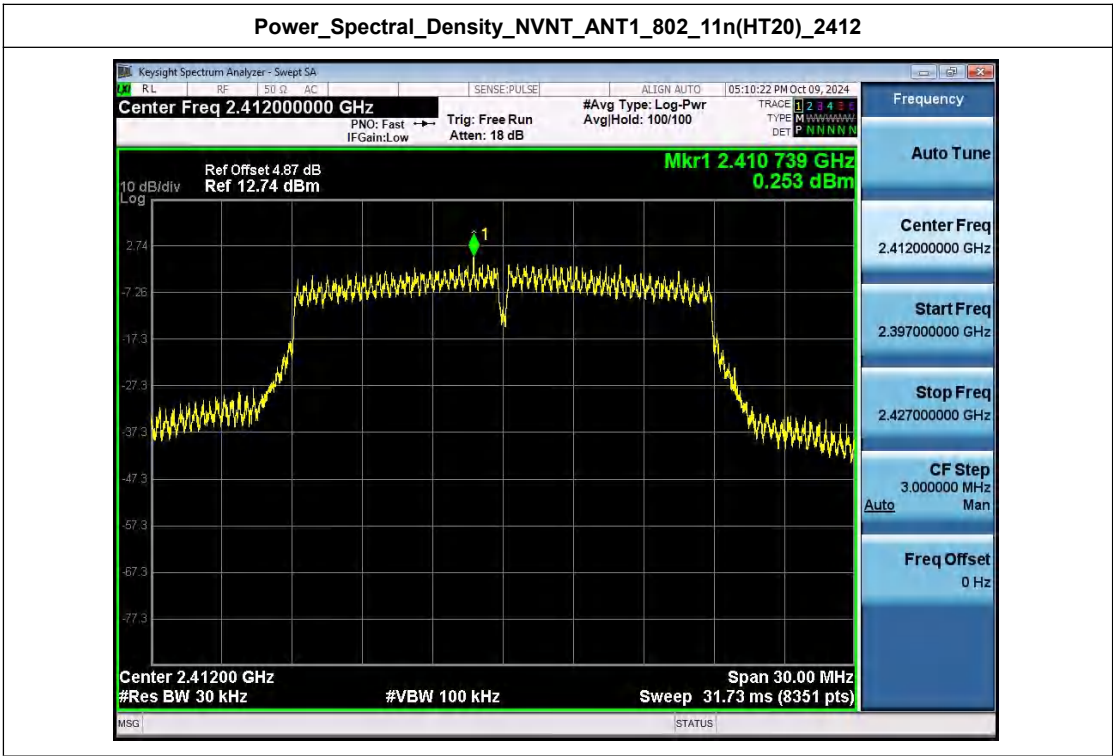


Power_Spectral_Density_NVNT_ANT1_802_11g_2462



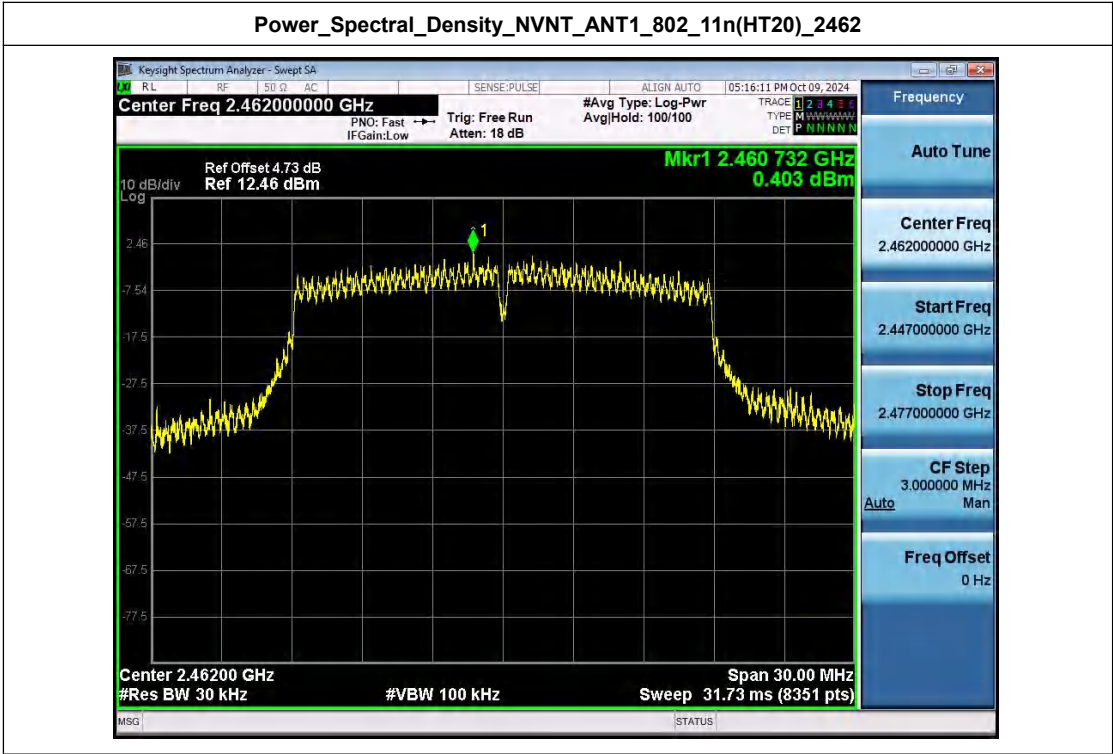


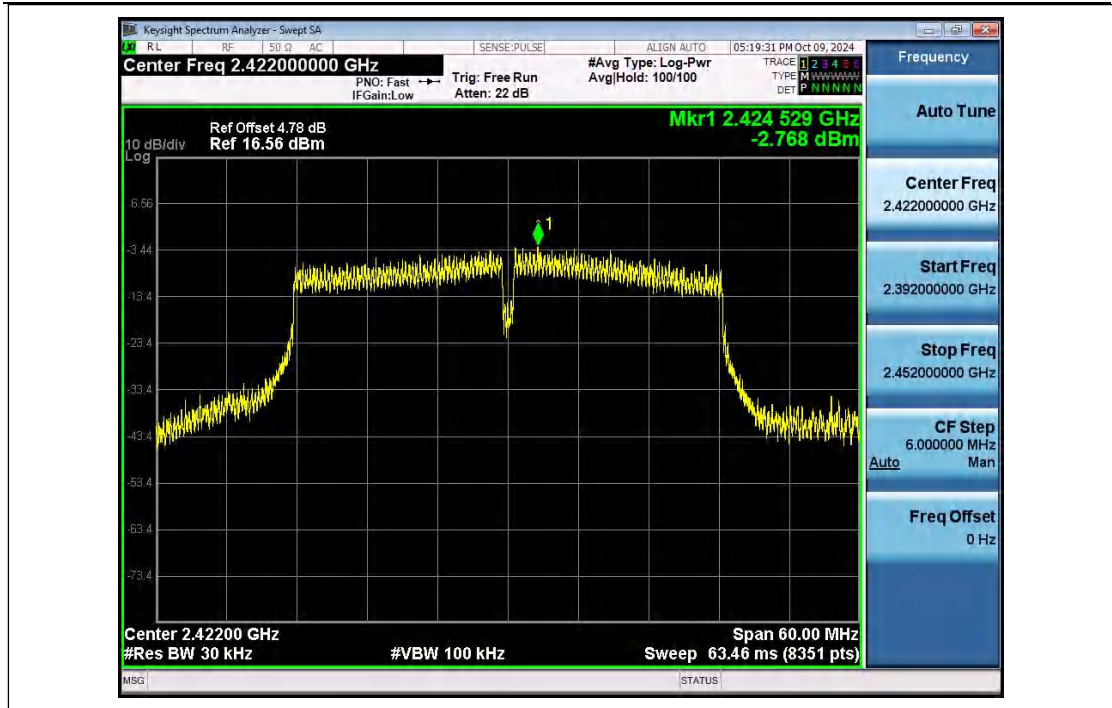
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



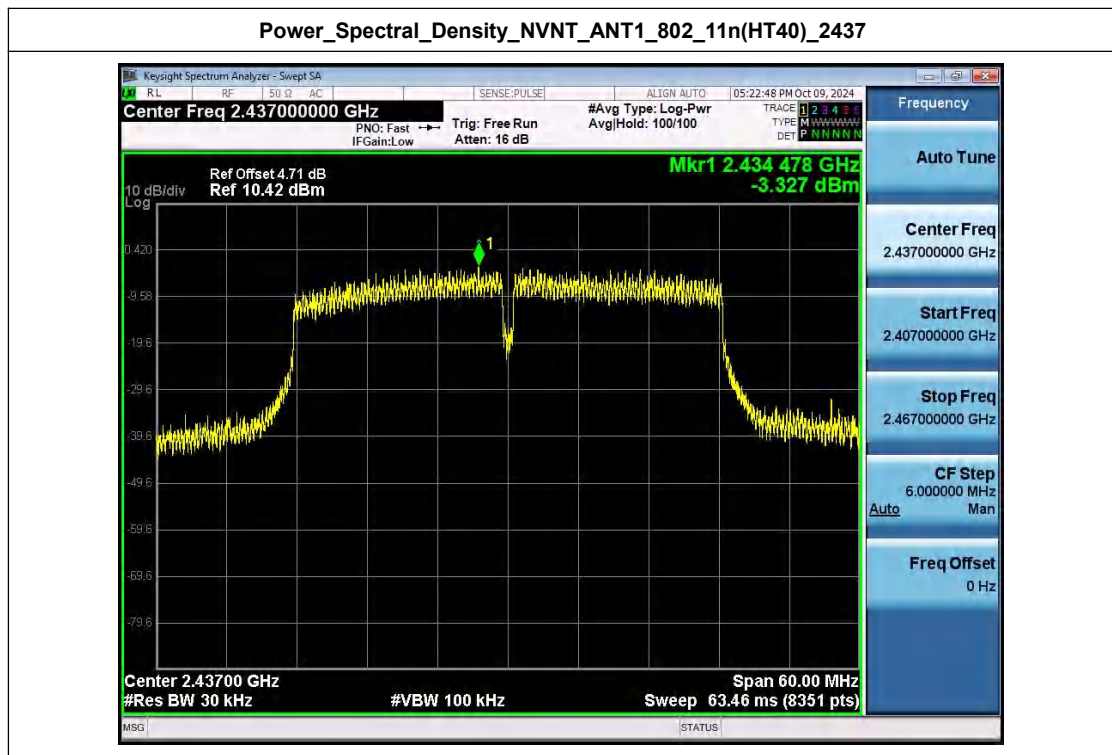
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437





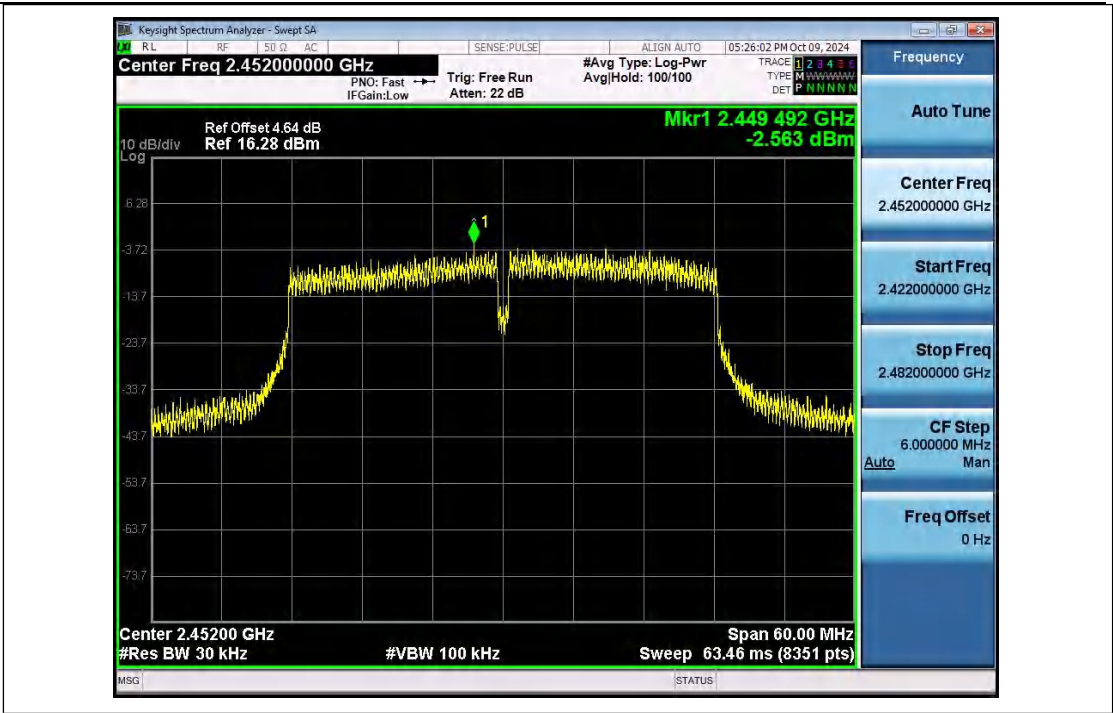


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452





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Appendix F: Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.592	-48.828	-23.533	Pass
NVNT	ANT1	802.11b	2462.00	2486.464	-54.290	-22.951	Pass
NVNT	ANT1	802.11g	2412.00	2396.912	-28.488	-26.534	Pass
NVNT	ANT1	802.11g	2462.00	2483.632	-39.309	-25.913	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.816	-29.462	-25.344	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.784	-36.069	-25.784	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2394.612	-30.448	-30.286	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2485.108	-33.597	-32.155	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

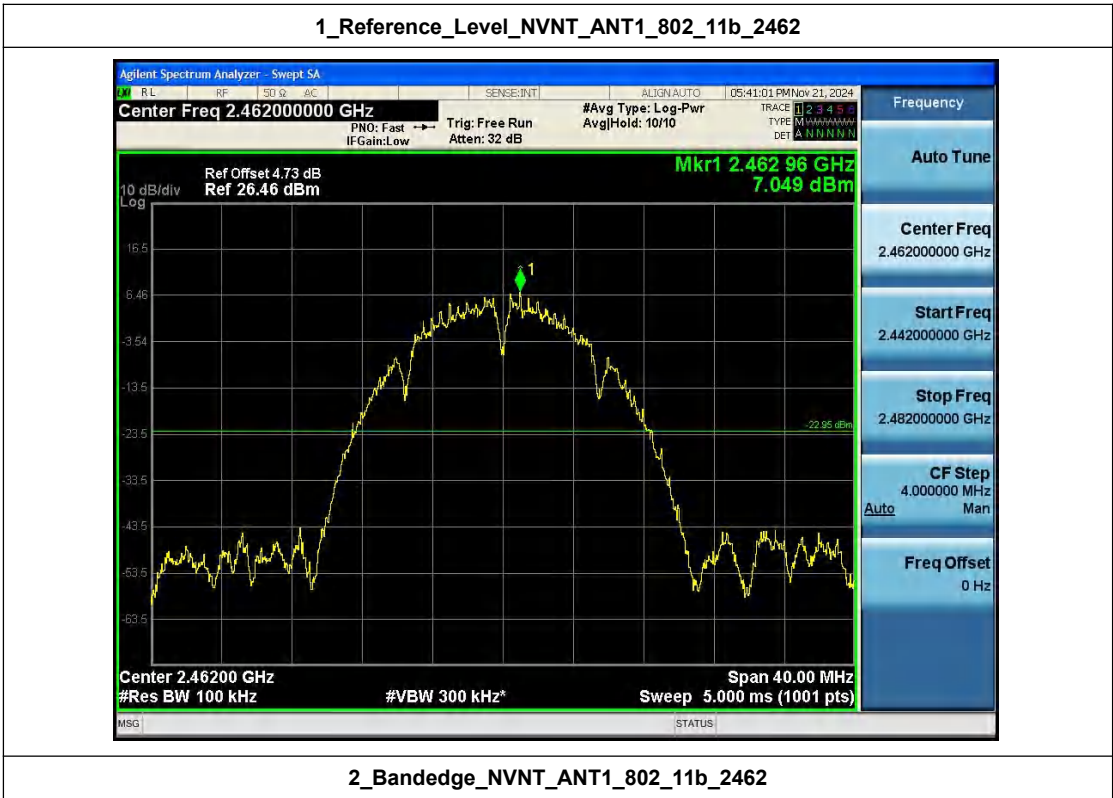


2_Bandedge_NVNT_ANT1_802_11b_2412





1_Reference_Level_NVNT_ANT1_802_11b_2462

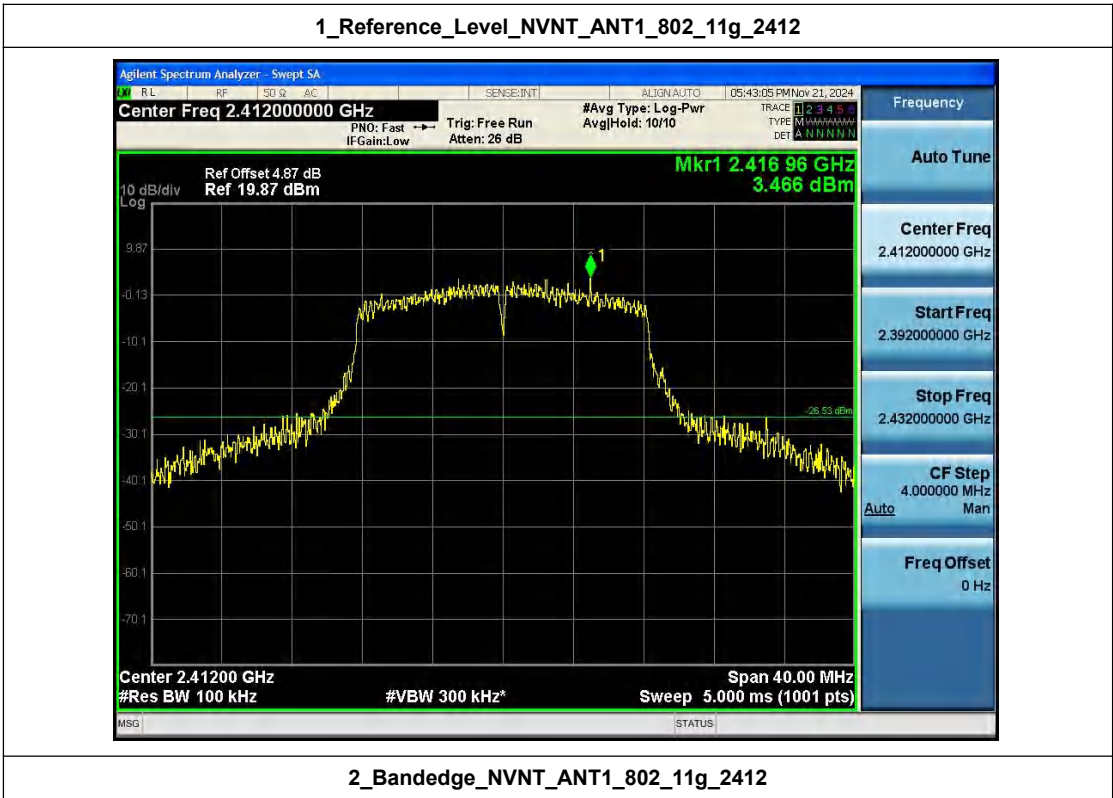


2_Bandedge_NVNT_ANT1_802_11b_2462





1_Reference_Level_NVNT_ANT1_802_11g_2412

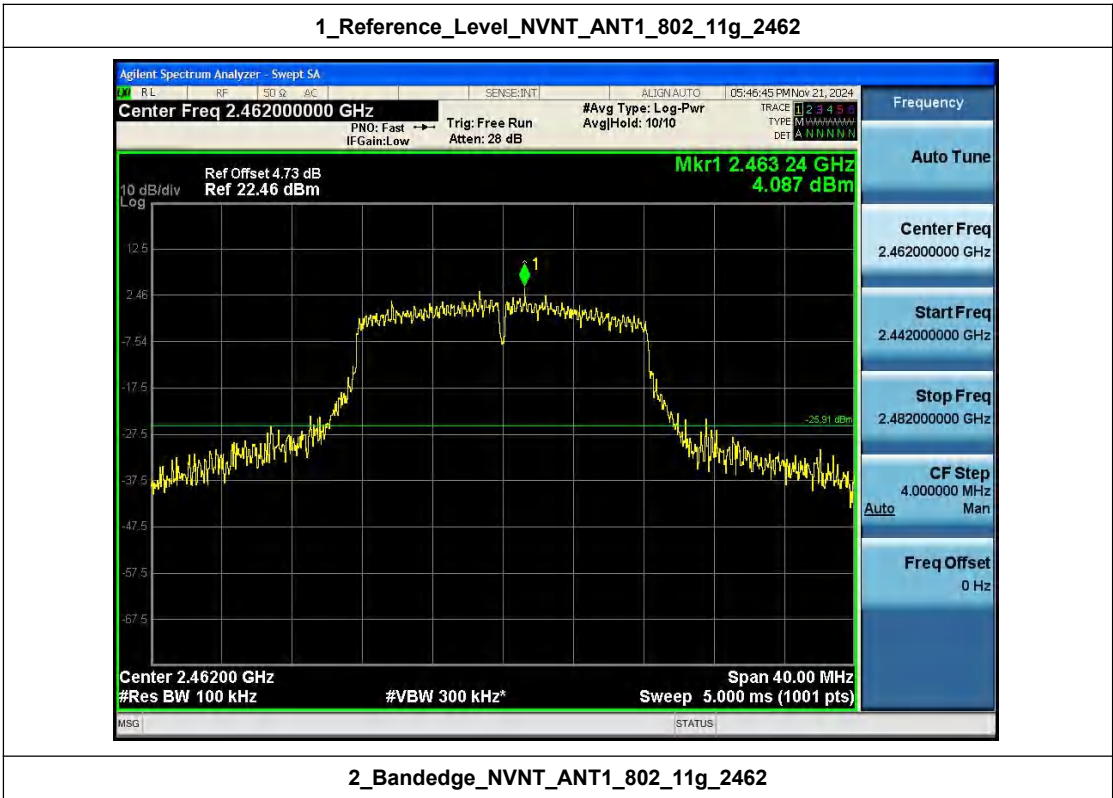


2_Bandedge_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2462

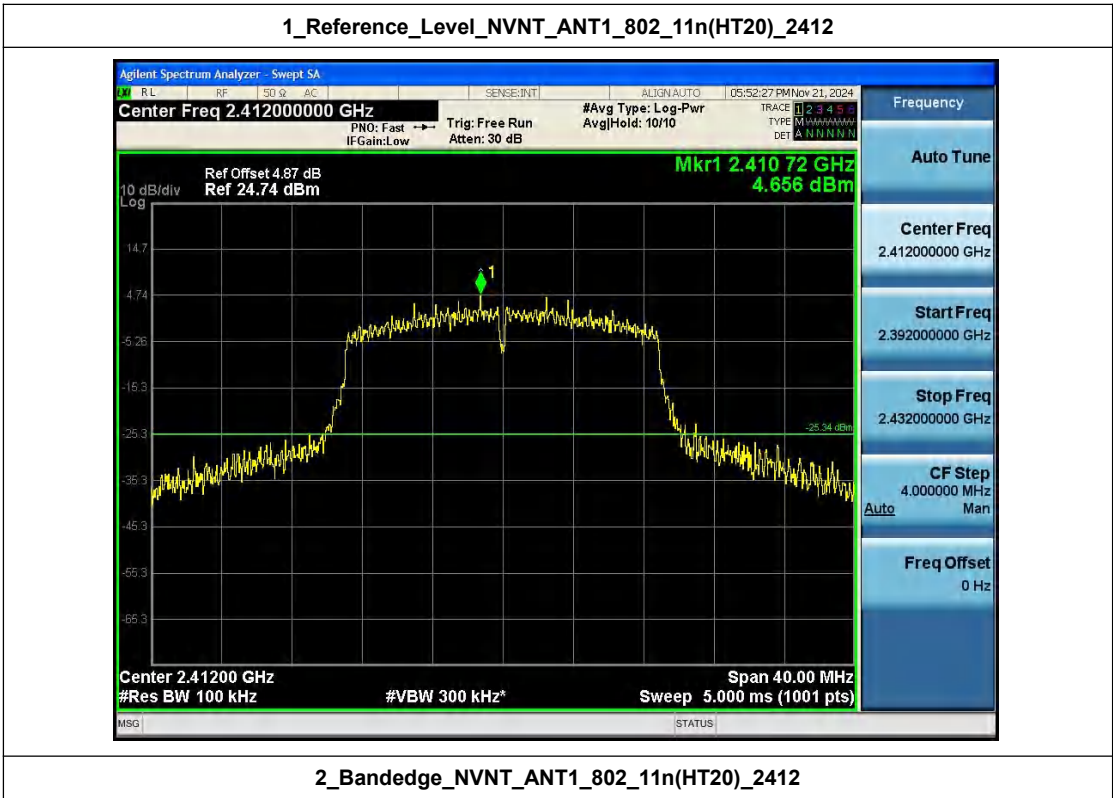


2_Bandedge_NVNT_ANT1_802_11g_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

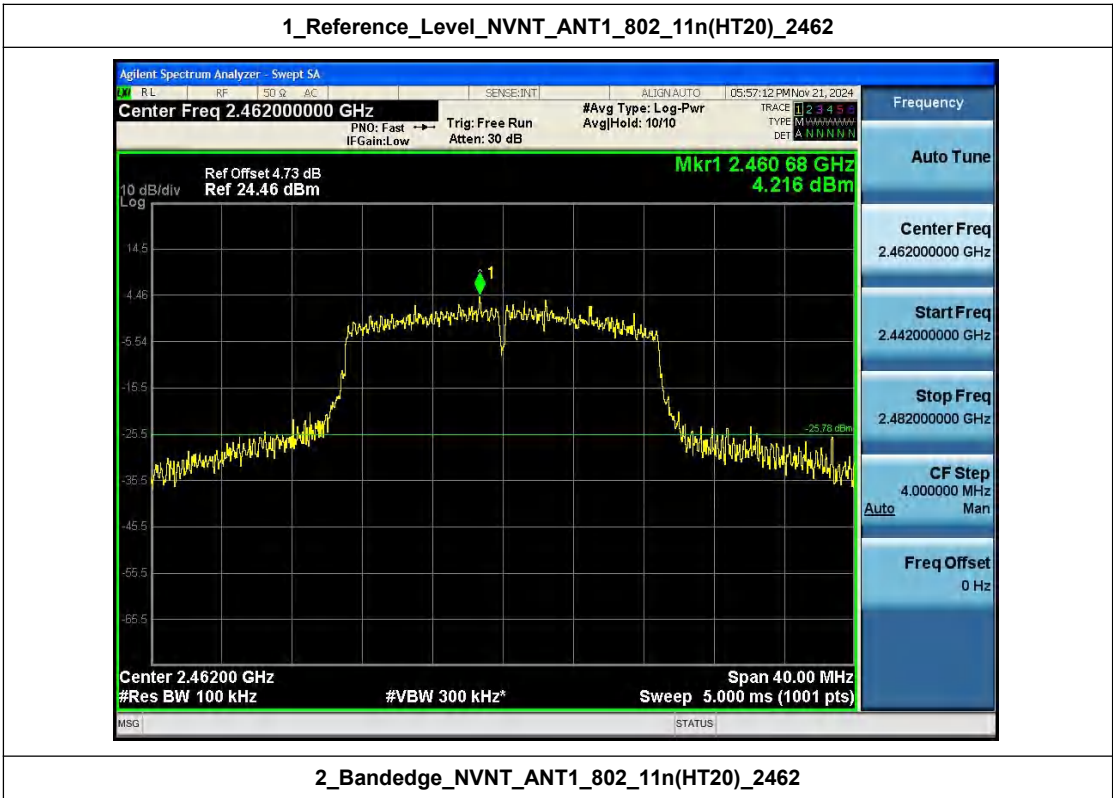


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

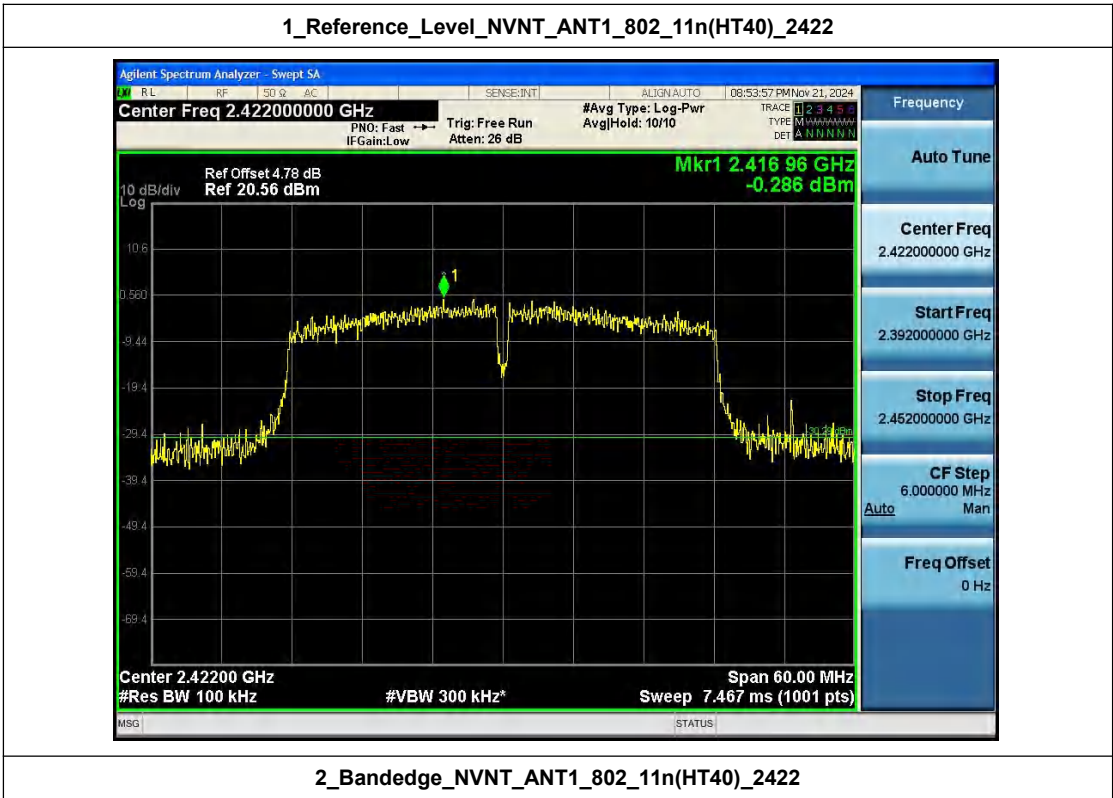


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

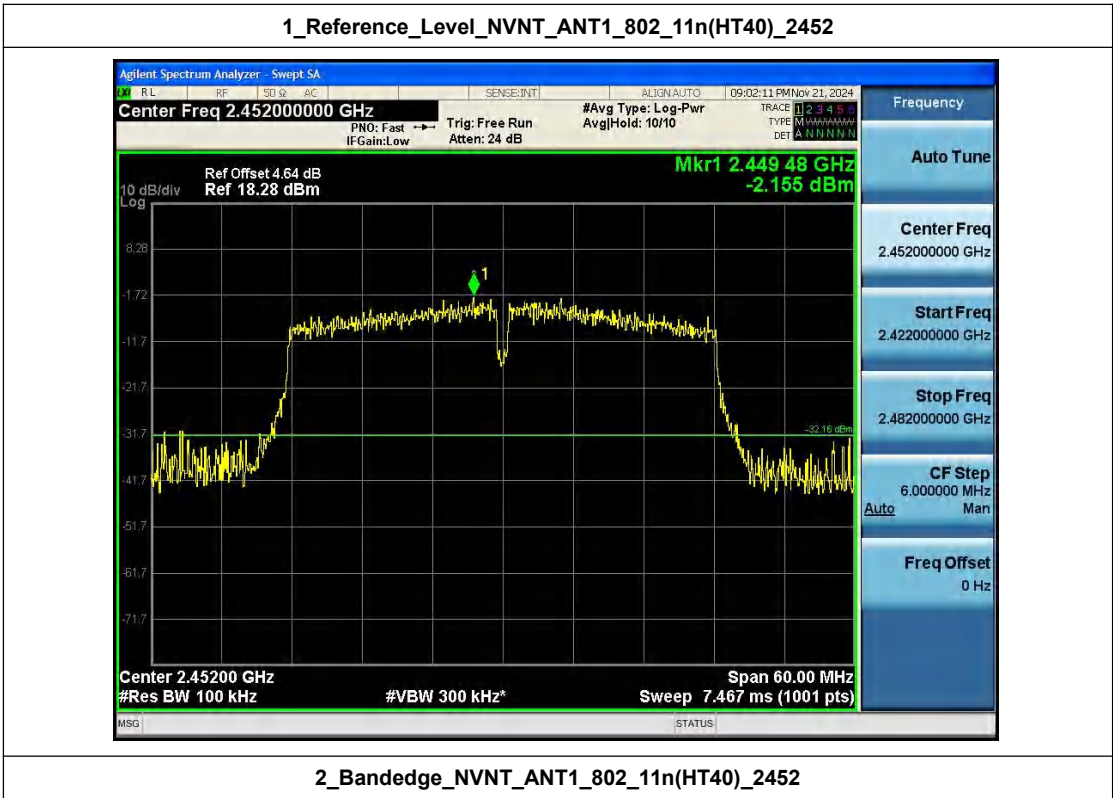


2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452





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Appendix G: Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24957.551	-55.990	-23.167	Pass
NVNT	ANT1	802.11b	2437.00	24832.701	-56.031	-23.853	Pass
NVNT	ANT1	802.11b	2462.00	24822.713	-53.631	-22.828	Pass
NVNT	ANT1	802.11g	2412.00	24800.240	-64.490	-26.245	Pass
NVNT	ANT1	802.11g	2437.00	24887.635	-62.542	-25.131	Pass
NVNT	ANT1	802.11g	2462.00	24832.701	-53.703	-25.536	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24792.749	-64.603	-25.432	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24865.162	-62.491	-25.035	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24877.647	-64.630	-25.708	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24832.701	-59.475	-27.399	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24862.665	-55.624	-28.671	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24850.180	-60.305	-28.220	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

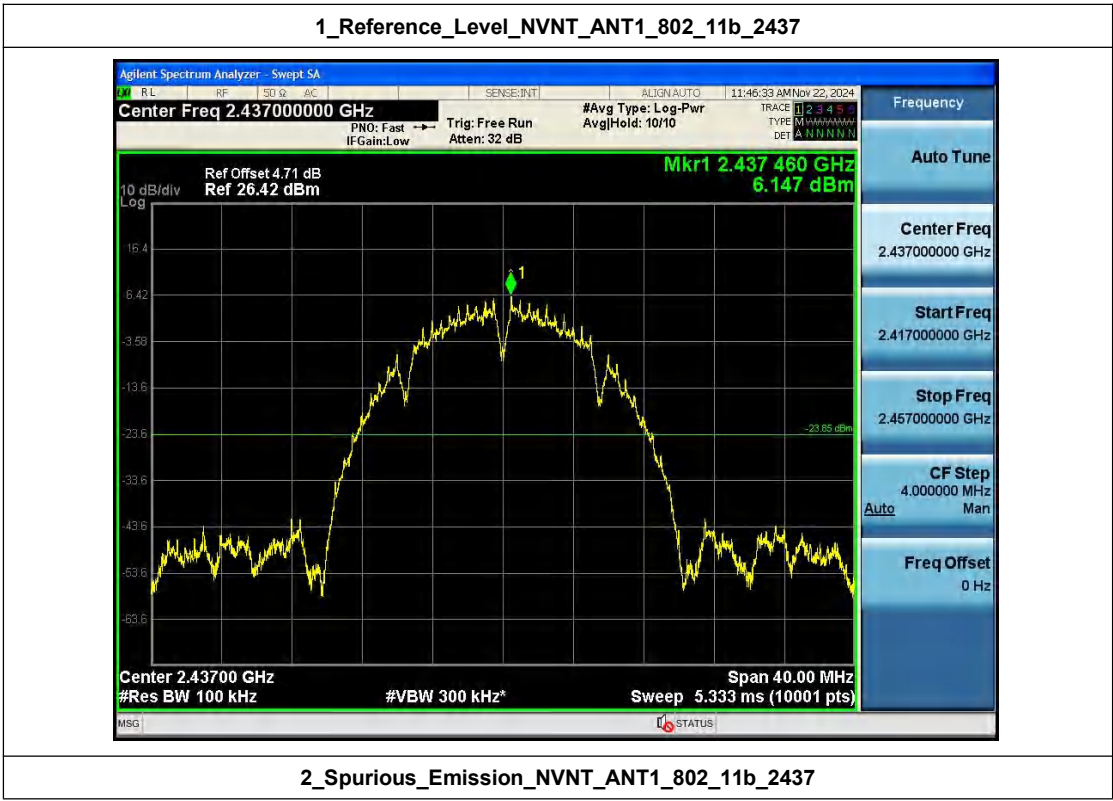


2_Spurious_Emission_NVNT_ANT1_802_11b_2412





1_Reference_Level_NVNT_ANT1_802_11b_2437

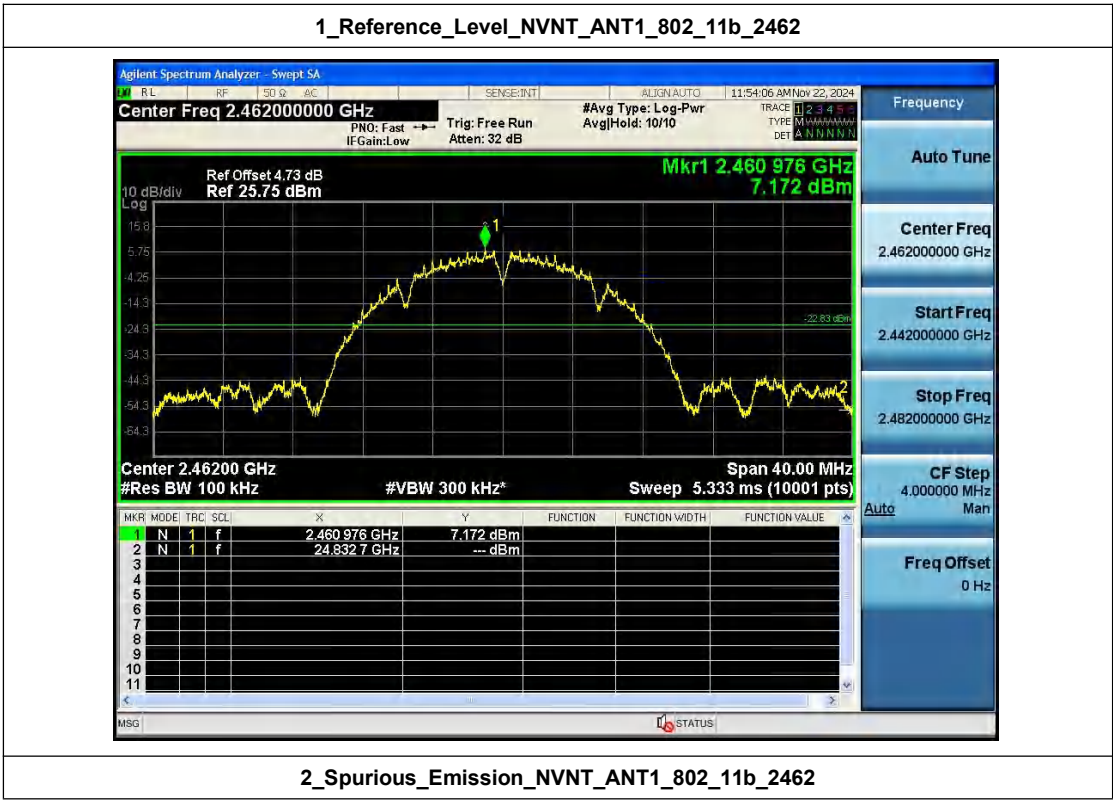


2_Spurious_Emission_NVNT_ANT1_802_11b_2437





1_Reference_Level_NVNT_ANT1_802_11b_2462

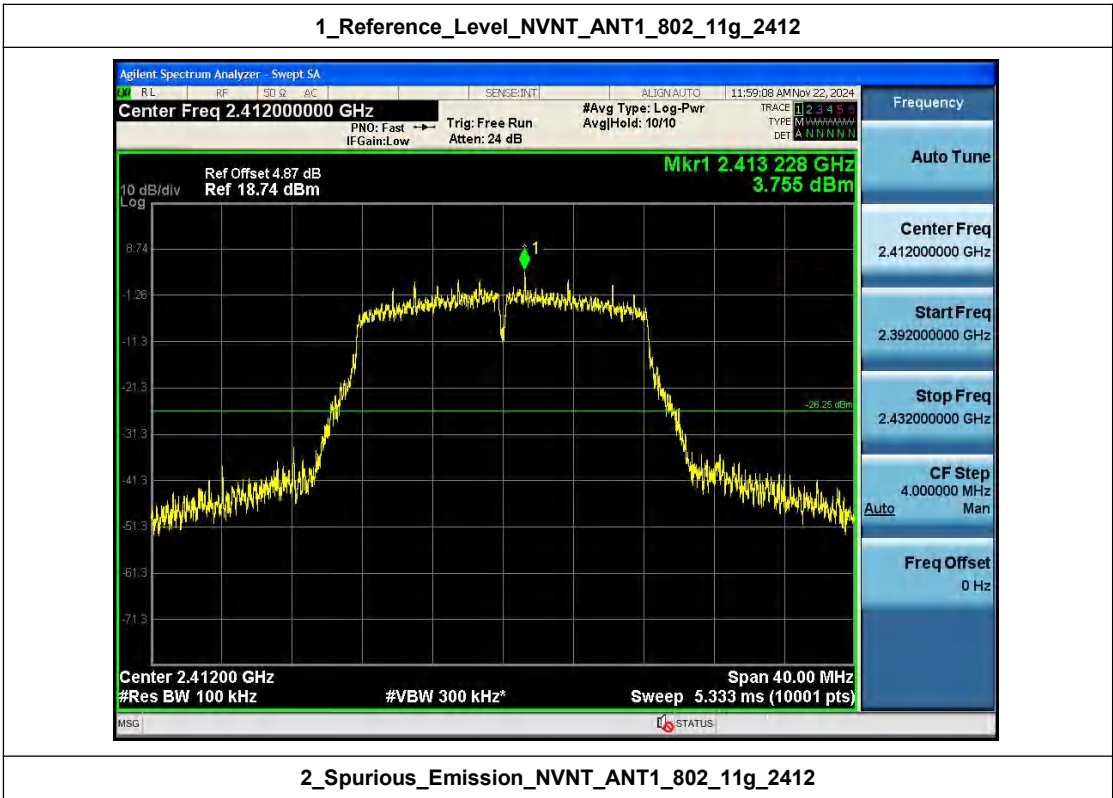


2_Spurious_Emission_NVNT_ANT1_802_11b_2462





1_Reference_Level_NVNT_ANT1_802_11g_2412

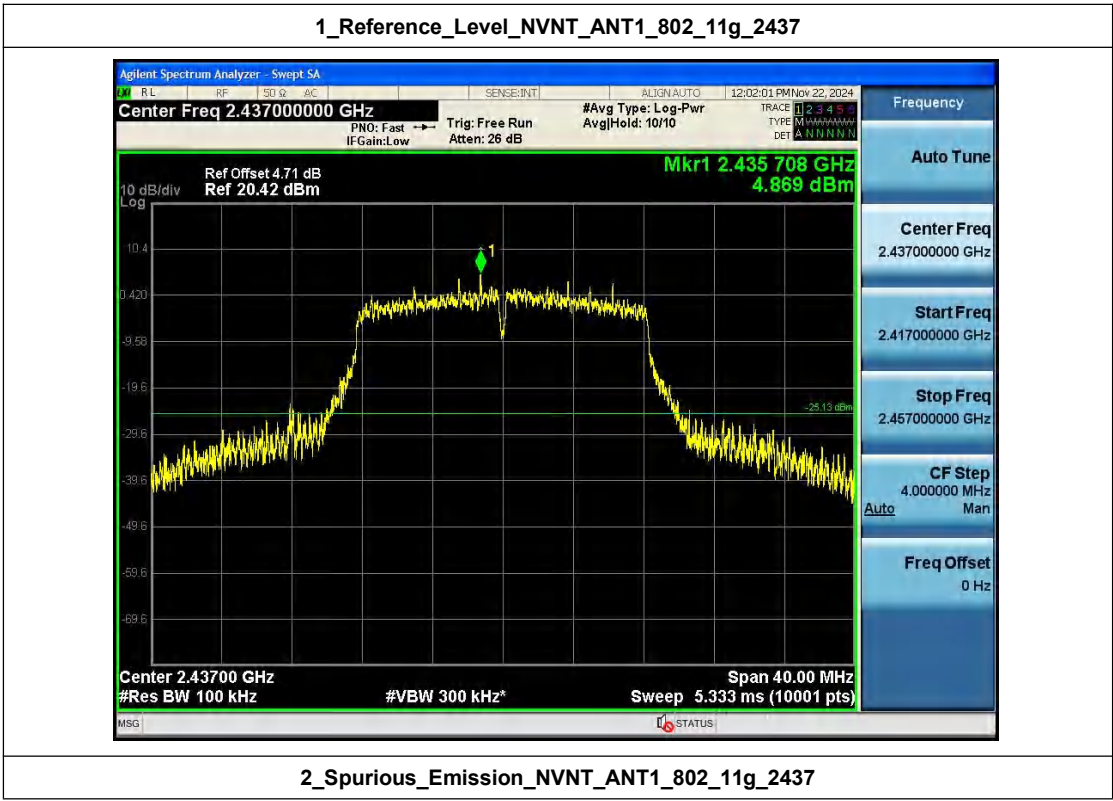


2_Spurious_Emission_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2437

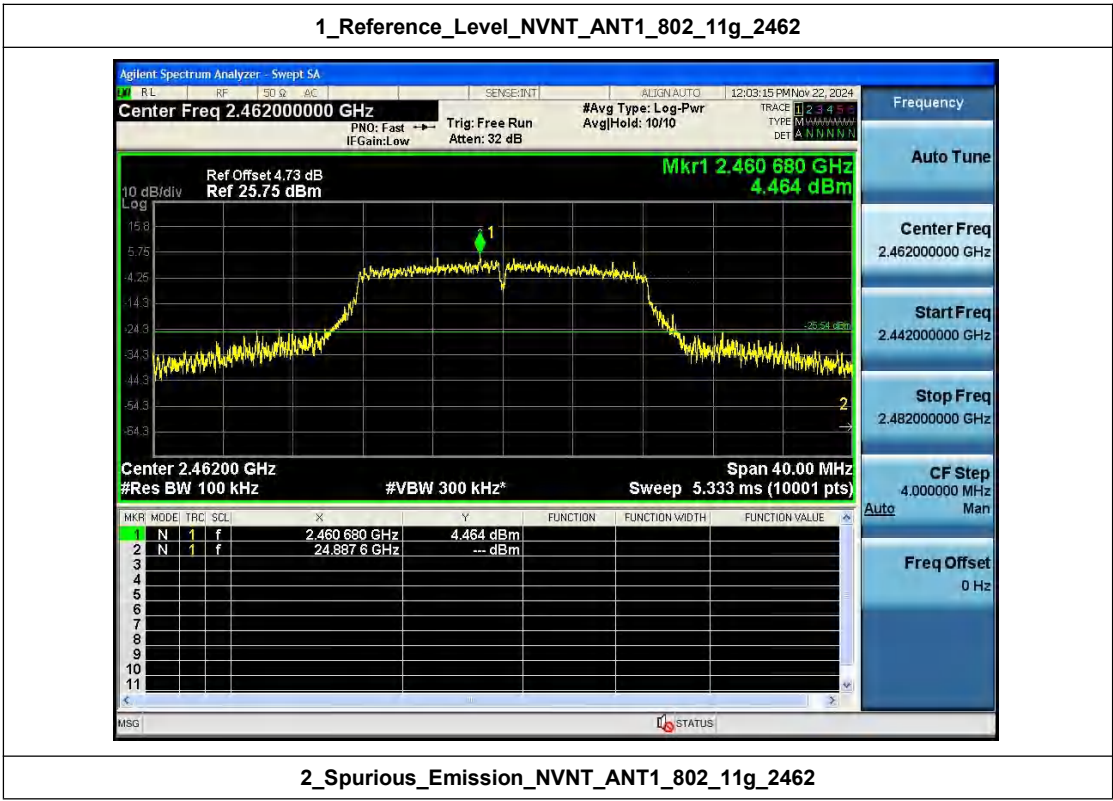


2_Spurious_Emission_NVNT_ANT1_802_11g_2437





1_Reference_Level_NVNT_ANT1_802_11g_2462

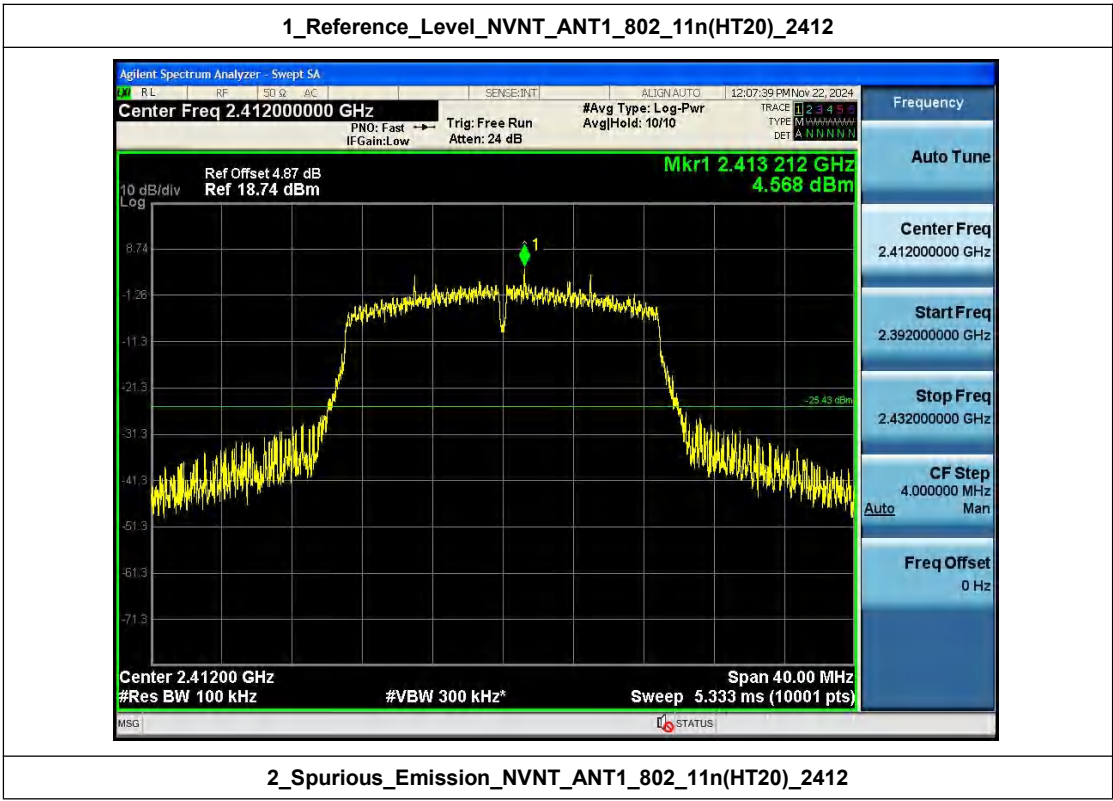


2_Spurious_Emission_NVNT_ANT1_802_11g_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

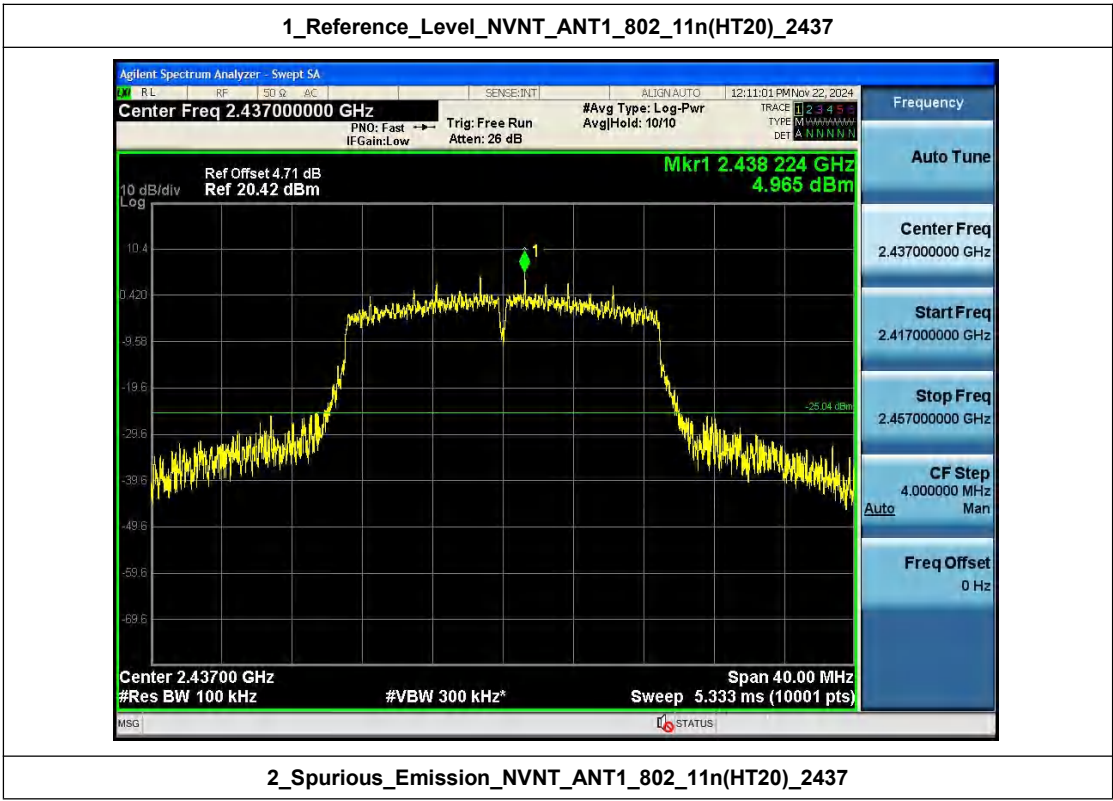


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437

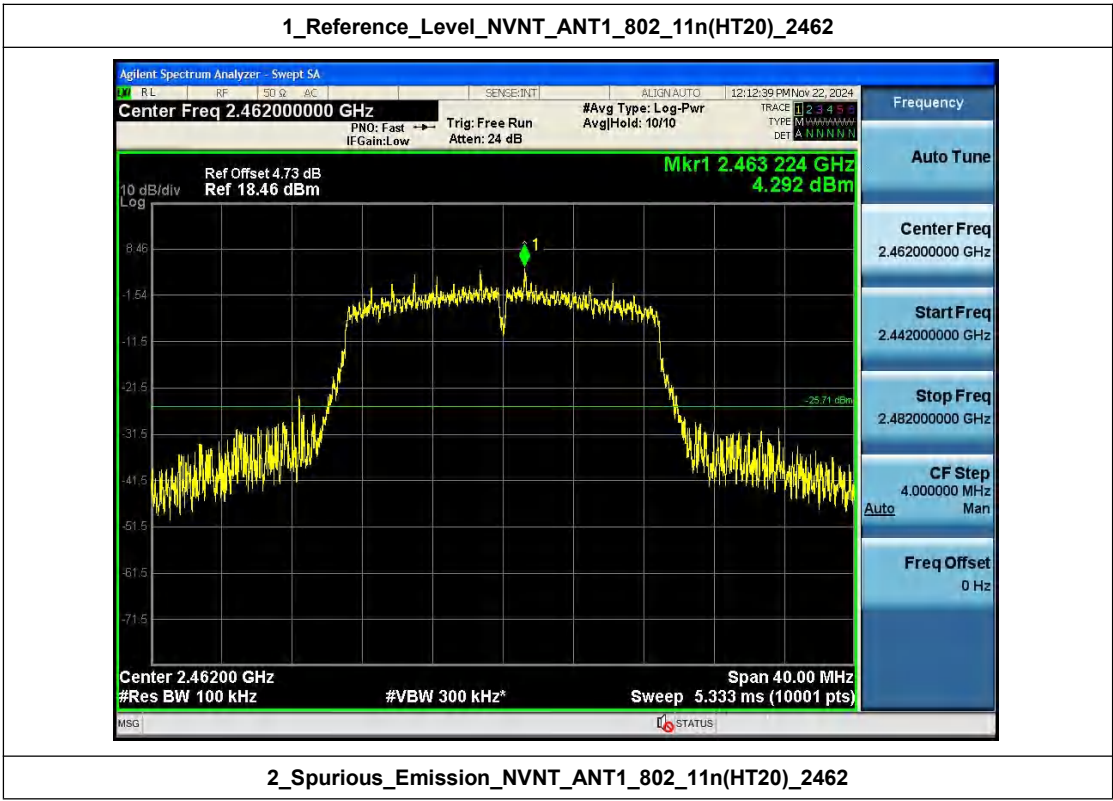


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

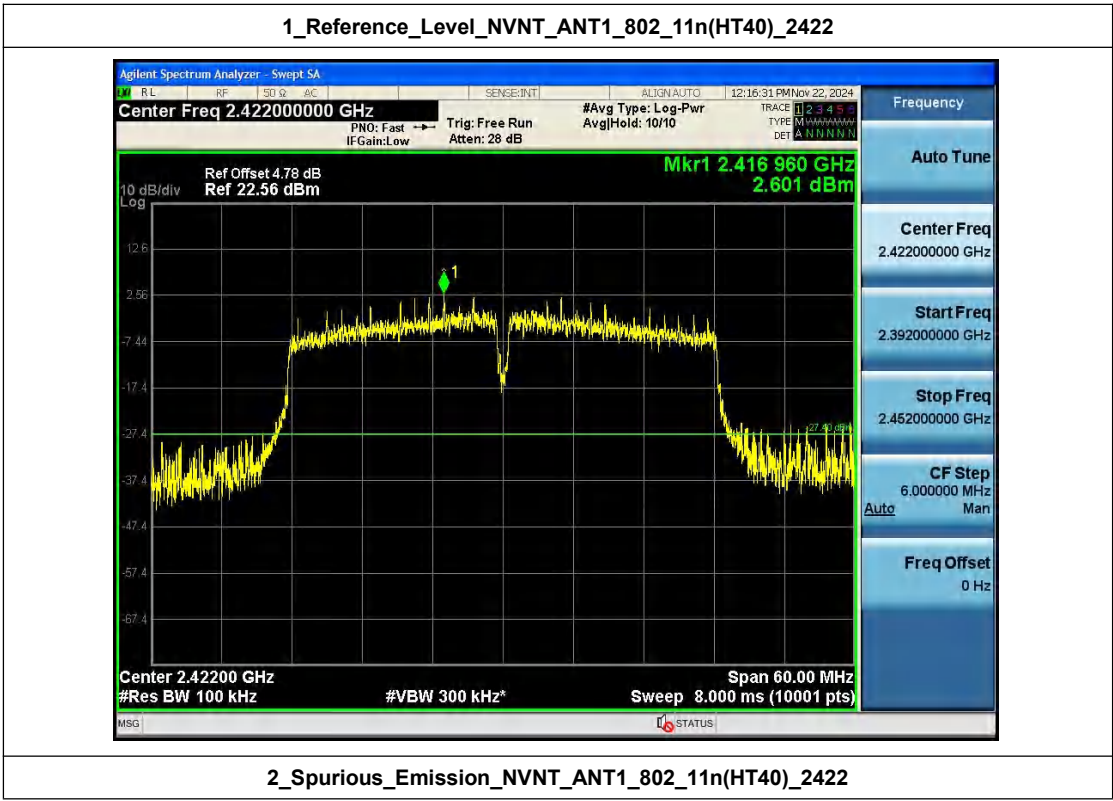


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

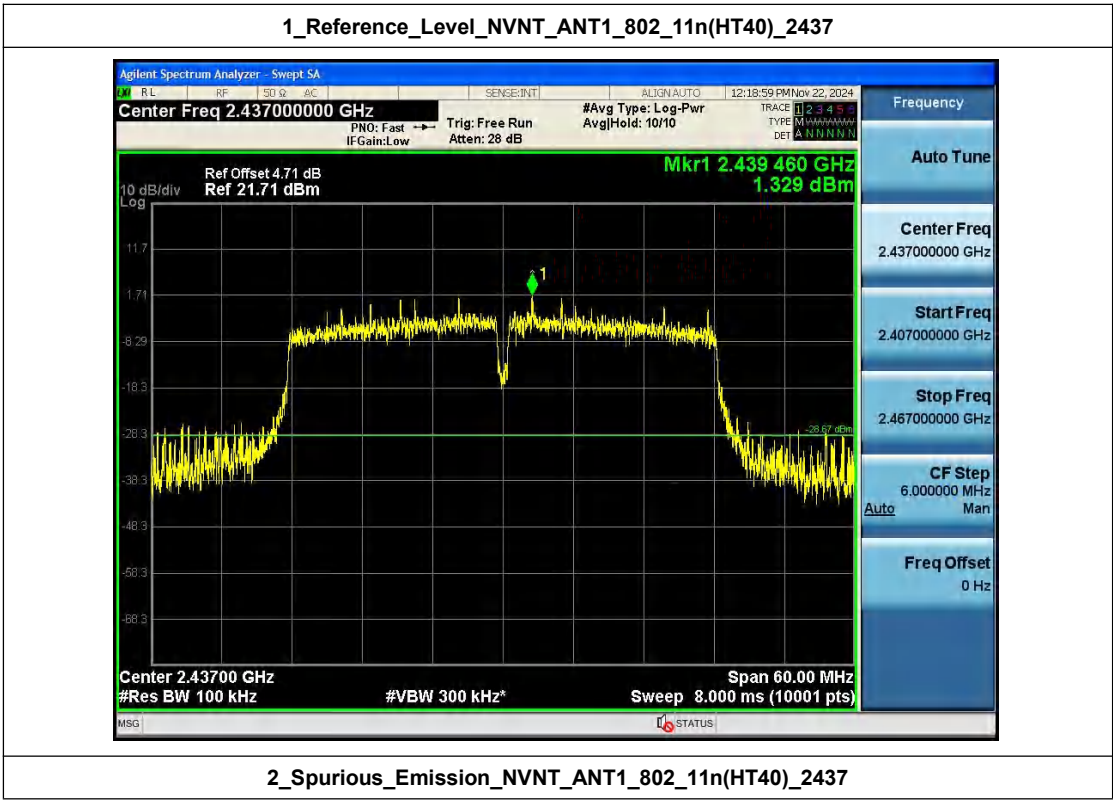


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



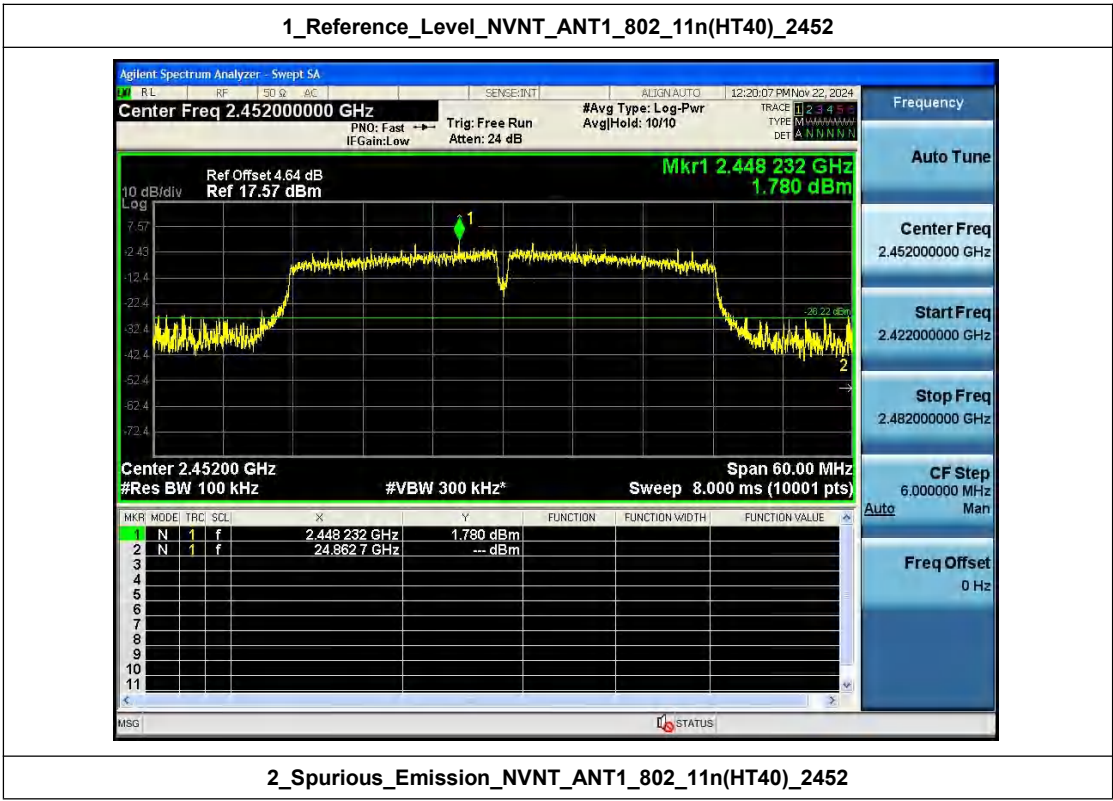


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437







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