

Appendix Test Data

Report No.:	1812C40122812503	Test Sample No.:	1-2-2
Start Test Date:	2024.11.6	Finish Test Date:	2025.1.3
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	22.4℃	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

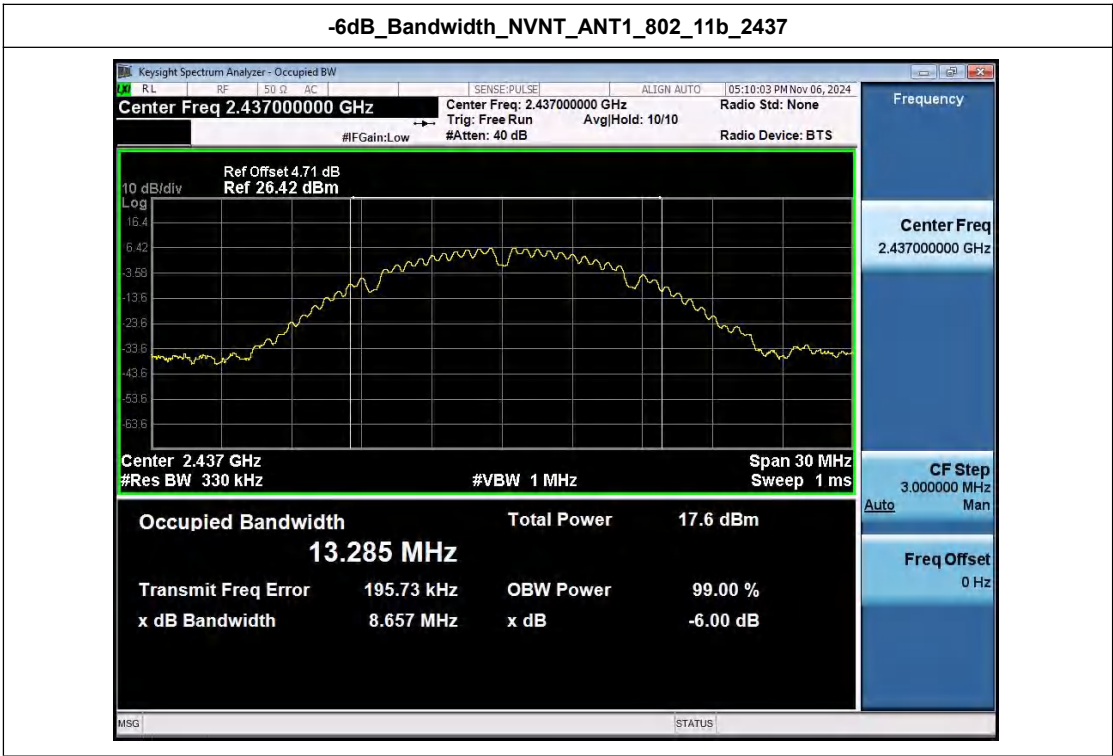
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.23	500	Pass
NVNT	ANT1	802.11b	2437.00	8.66	500	Pass
NVNT	ANT1	802.11b	2462.00	9.17	500	Pass
NVNT	ANT1	802.11g	2412.00	16.17	500	Pass
NVNT	ANT1	802.11g	2437.00	16.15	500	Pass
NVNT	ANT1	802.11g	2462.00	16.28	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.43	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.53	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.38	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.95	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.01	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.28	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



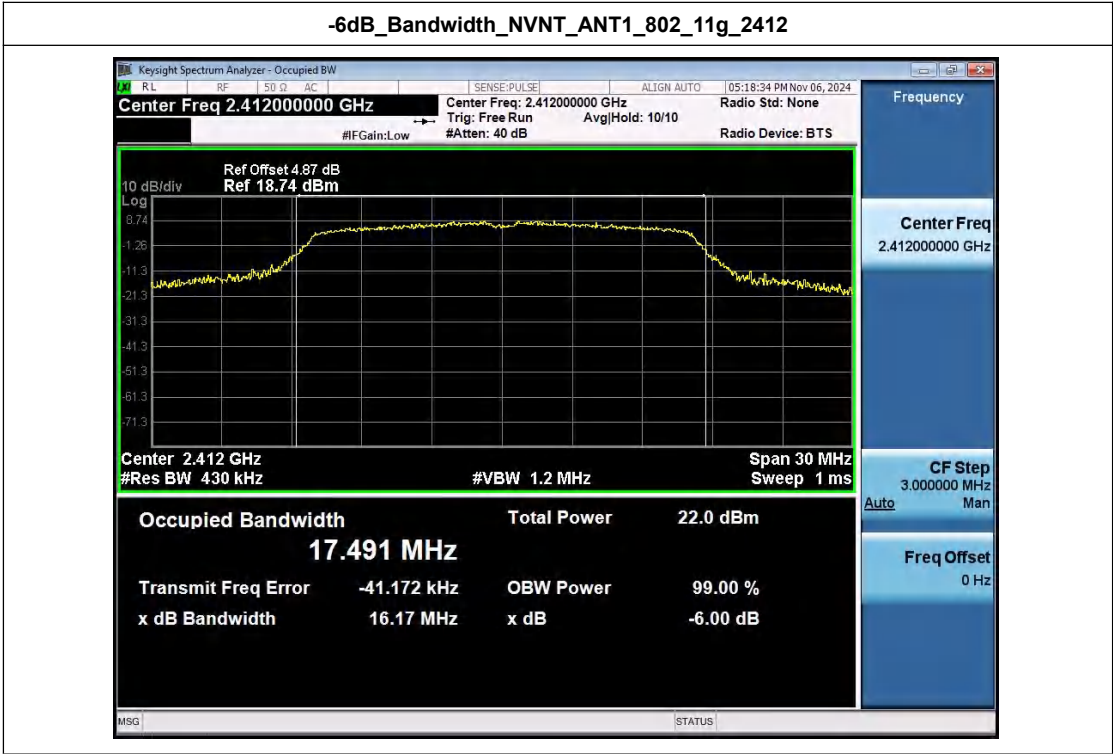


-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



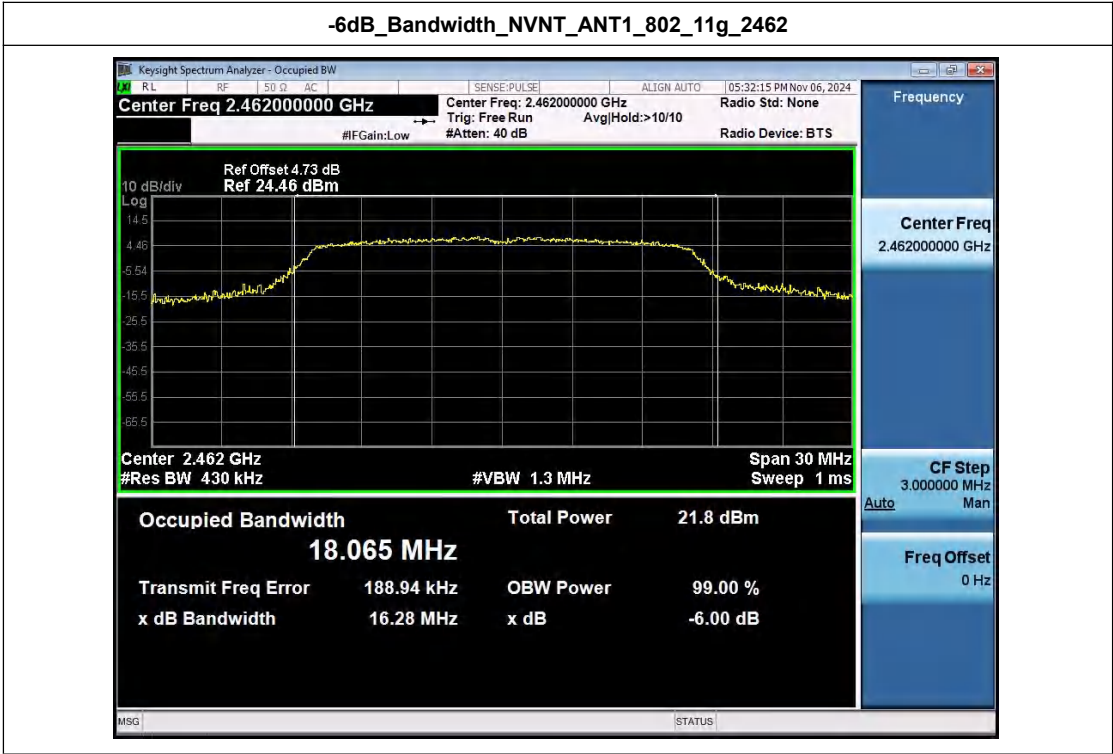
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462





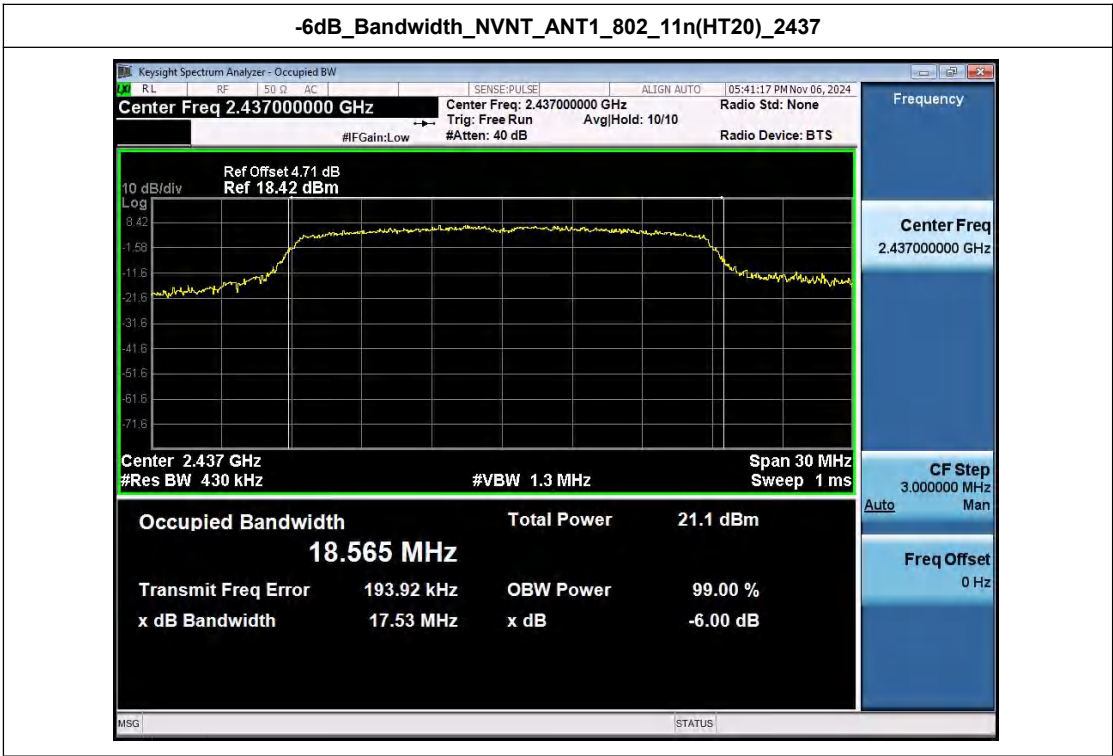
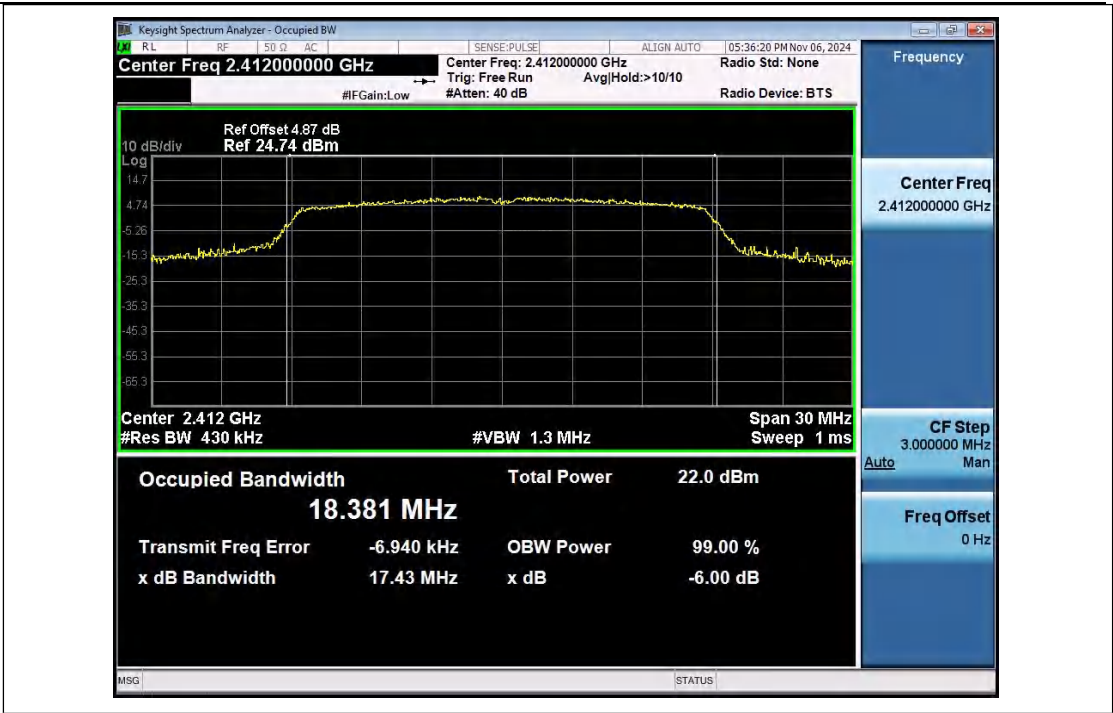
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437





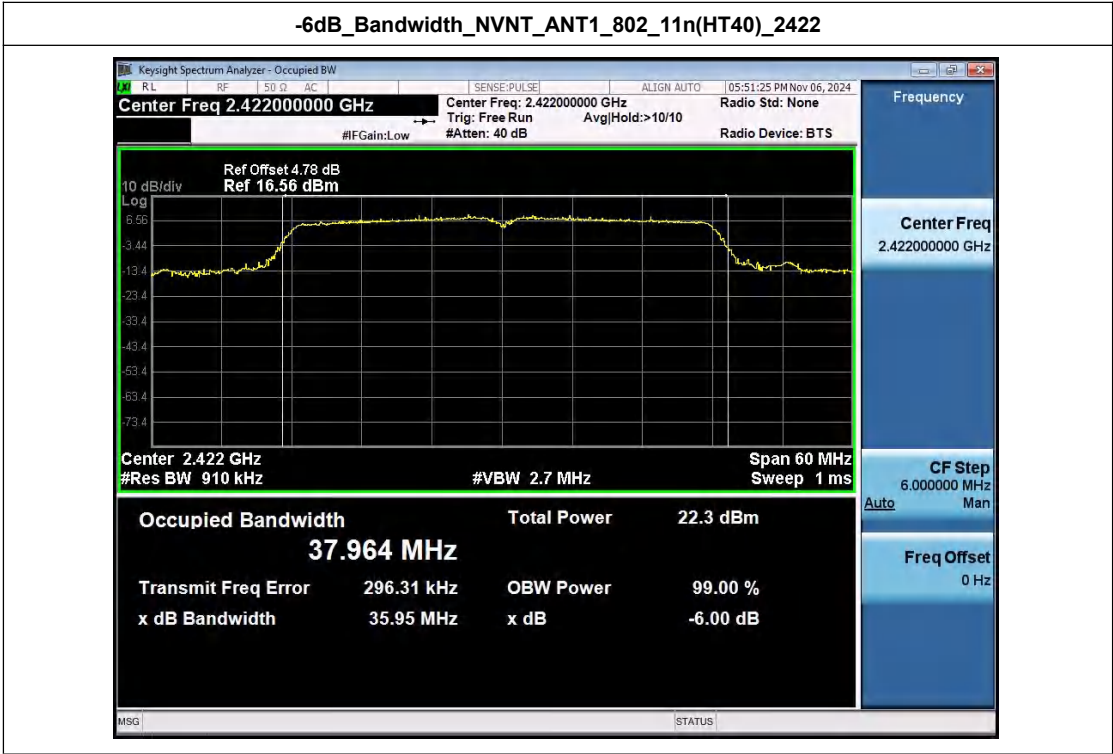
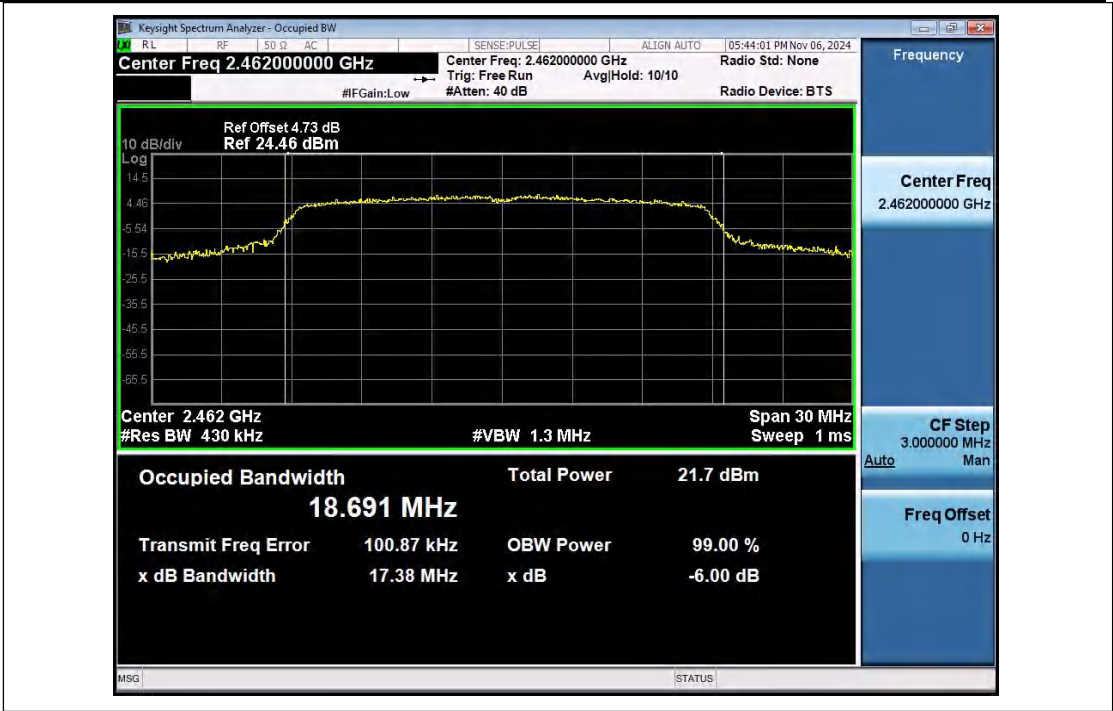
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412





-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



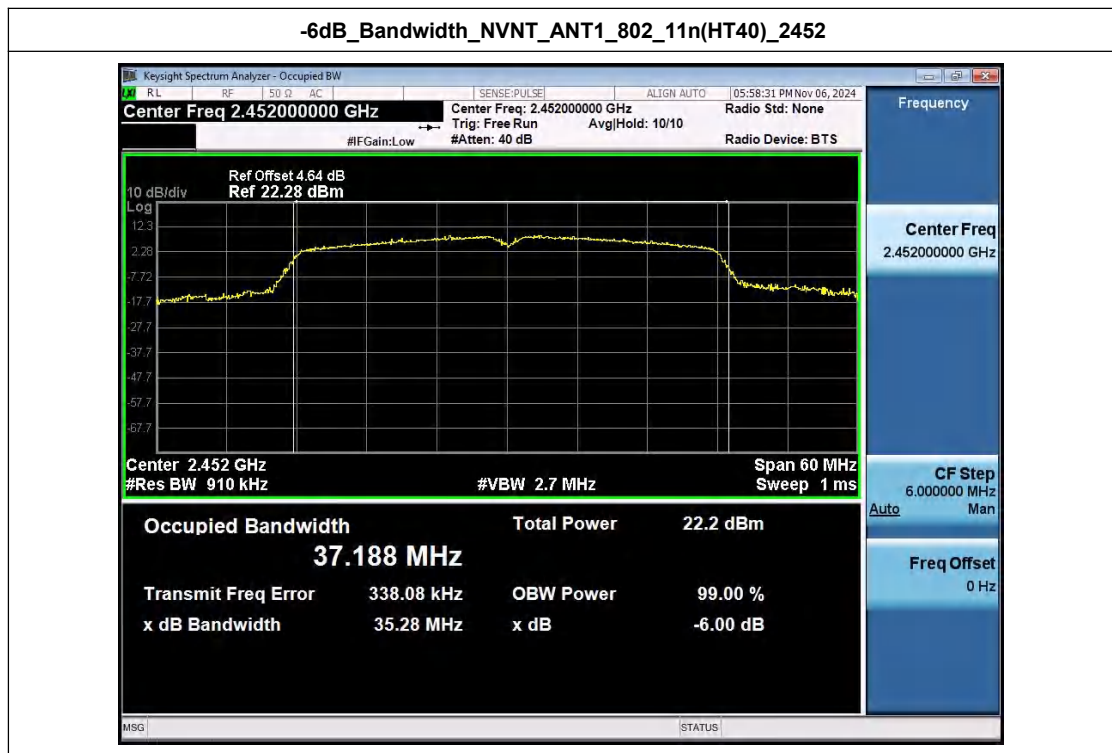


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437





-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.115
NVNT	ANT1	802.11b	2437.00	13.295
NVNT	ANT1	802.11b	2462.00	14.056
NVNT	ANT1	802.11g	2412.00	17.931
NVNT	ANT1	802.11g	2437.00	18.458
NVNT	ANT1	802.11g	2462.00	18.673
NVNT	ANT1	802.11n(HT20)	2412.00	18.854
NVNT	ANT1	802.11n(HT20)	2437.00	19.162
NVNT	ANT1	802.11n(HT20)	2462.00	19.421
NVNT	ANT1	802.11n(HT40)	2422.00	38.658
NVNT	ANT1	802.11n(HT40)	2437.00	38.410
NVNT	ANT1	802.11n(HT40)	2452.00	37.452

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

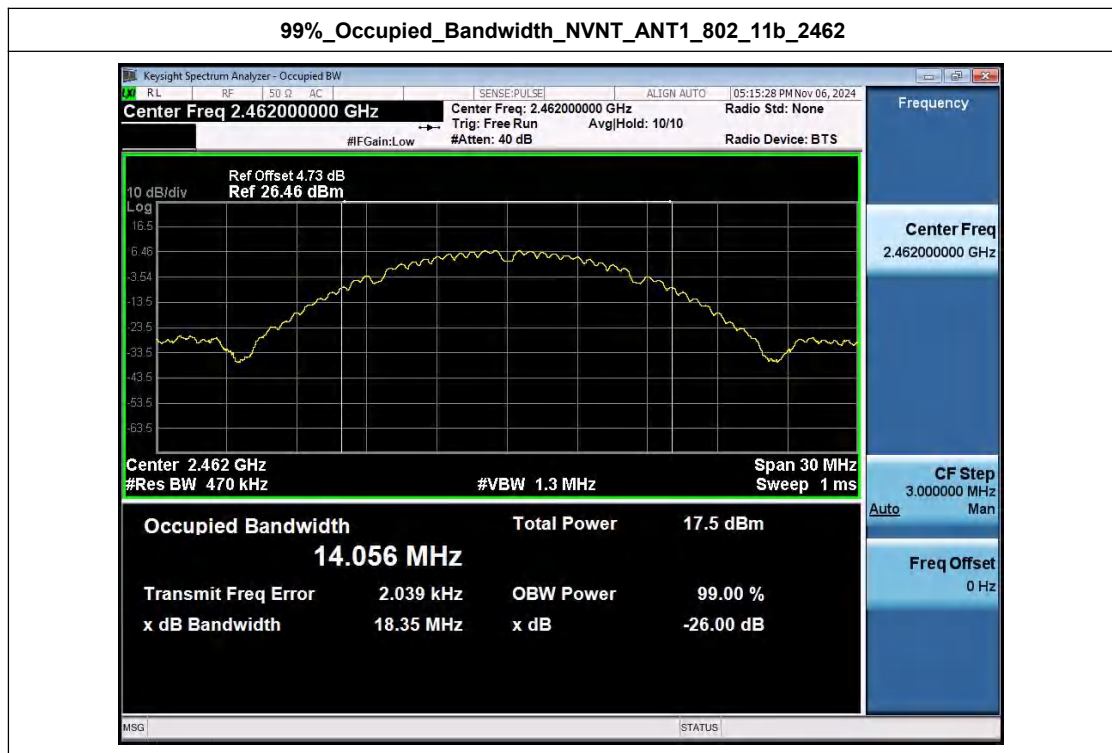


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



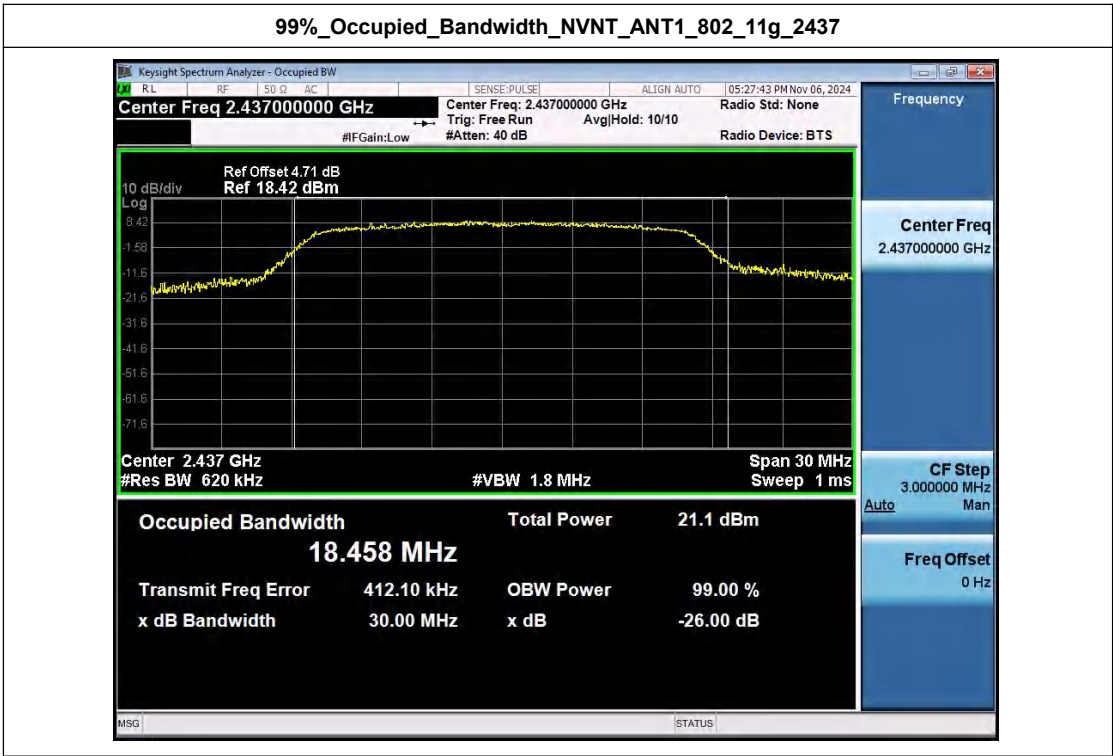
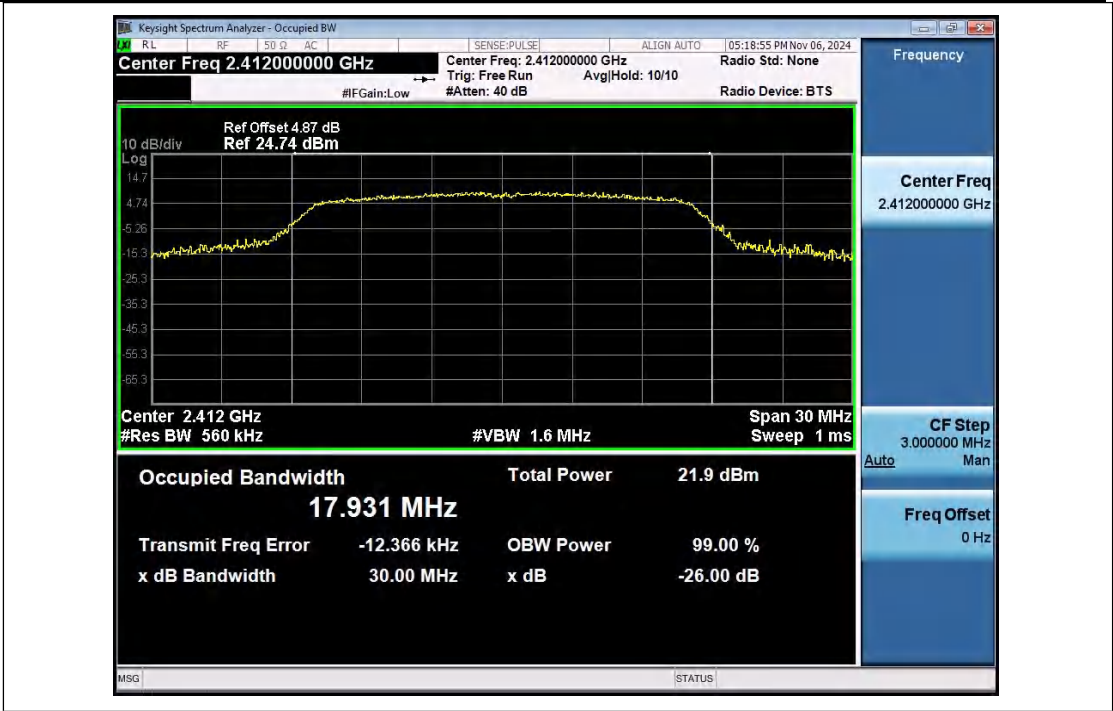


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



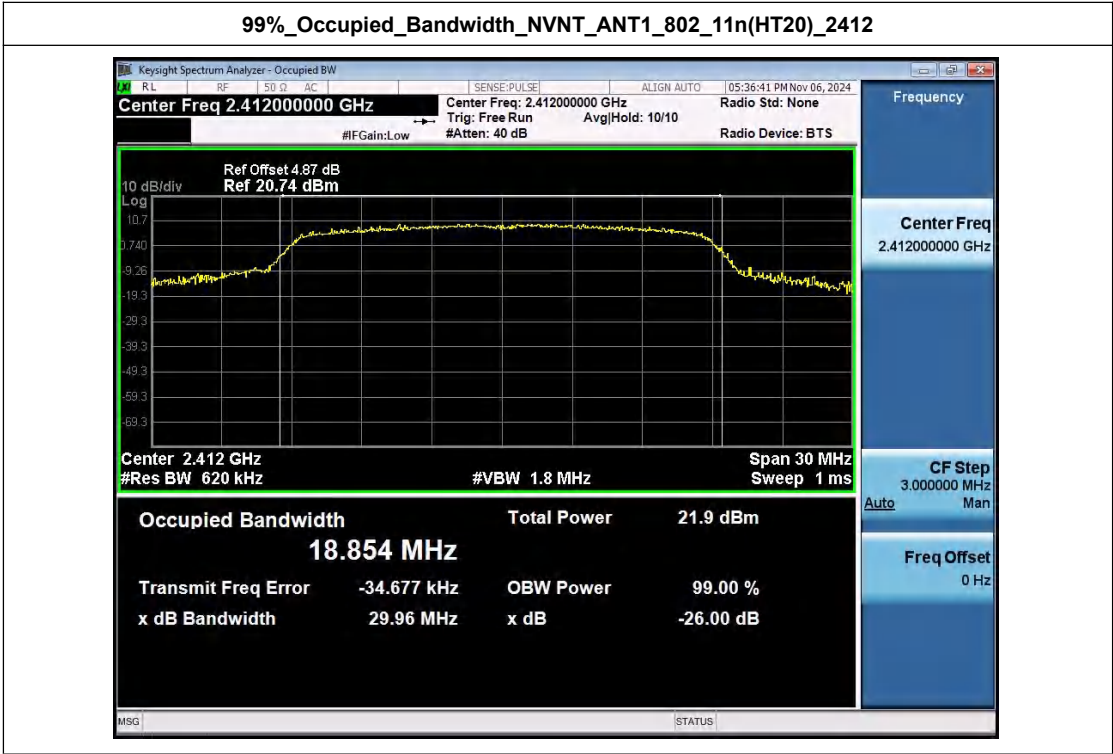
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412





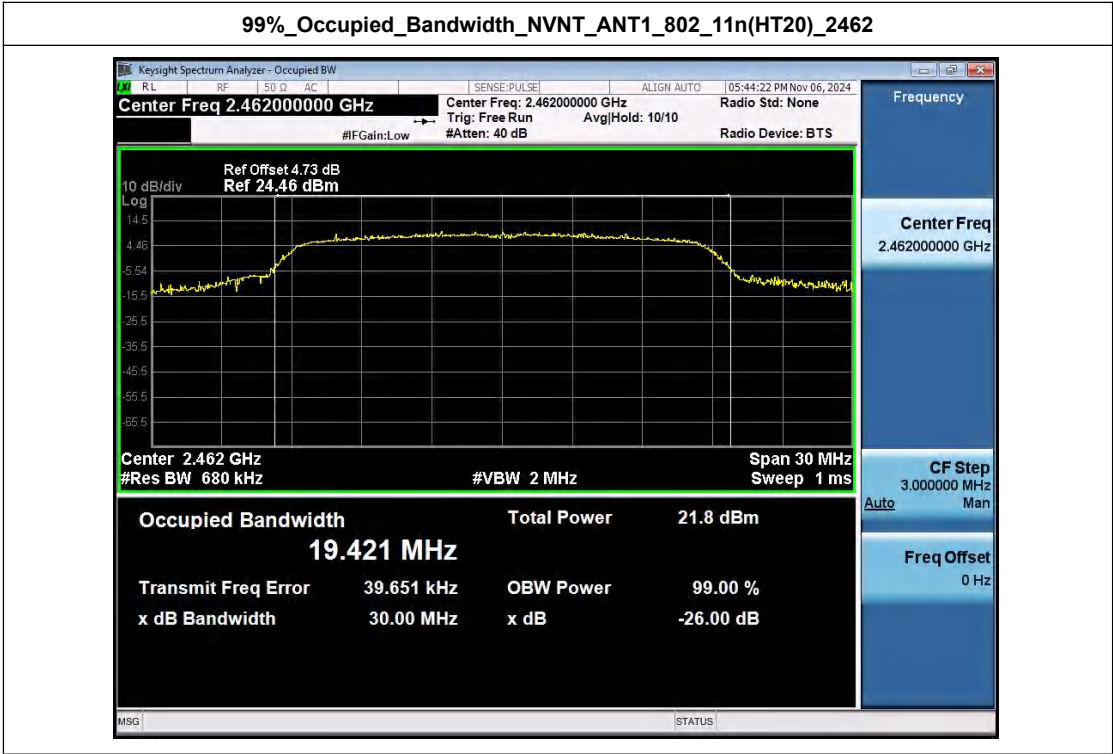
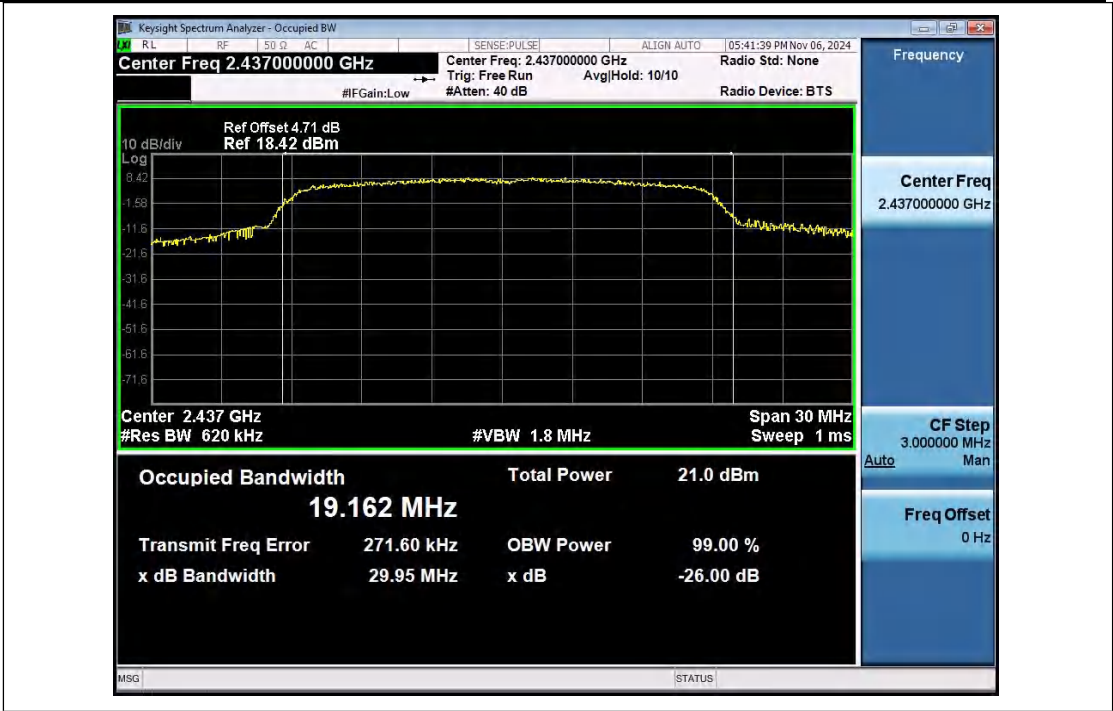
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462





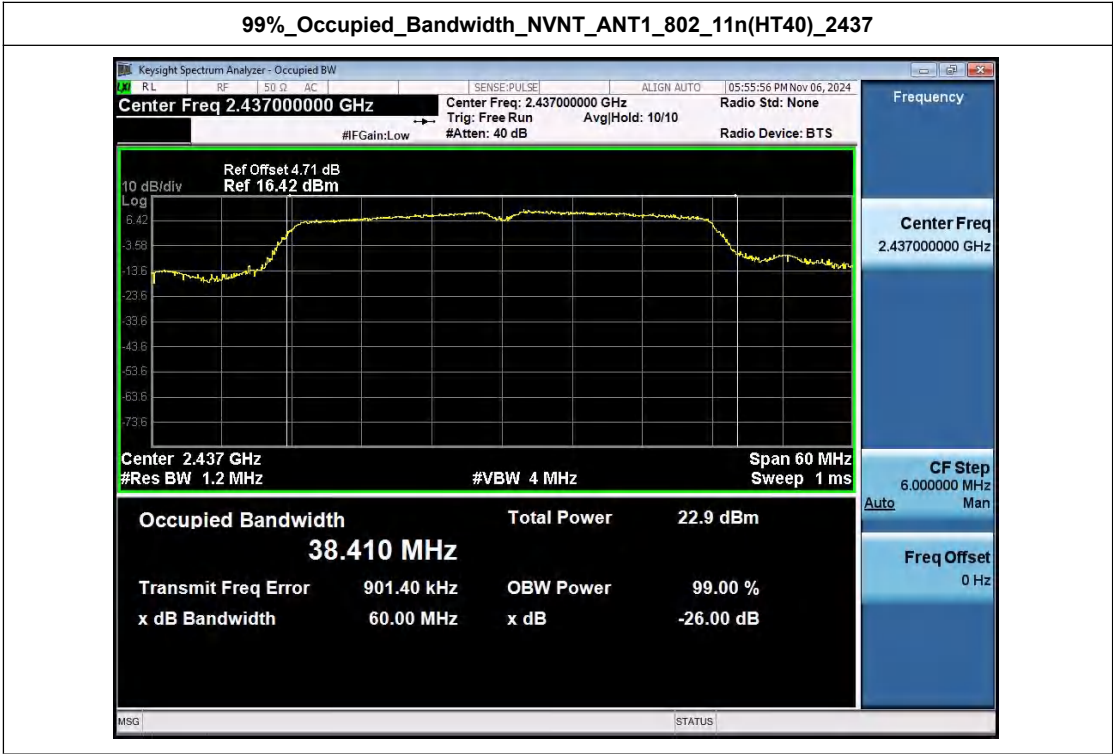
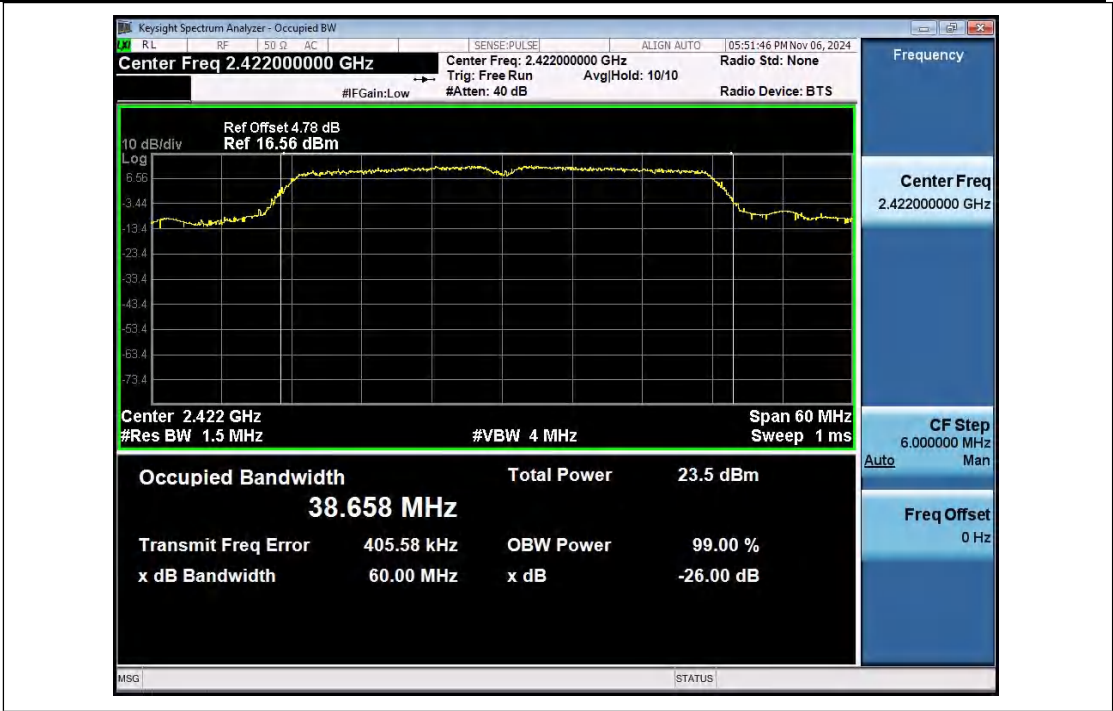
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437





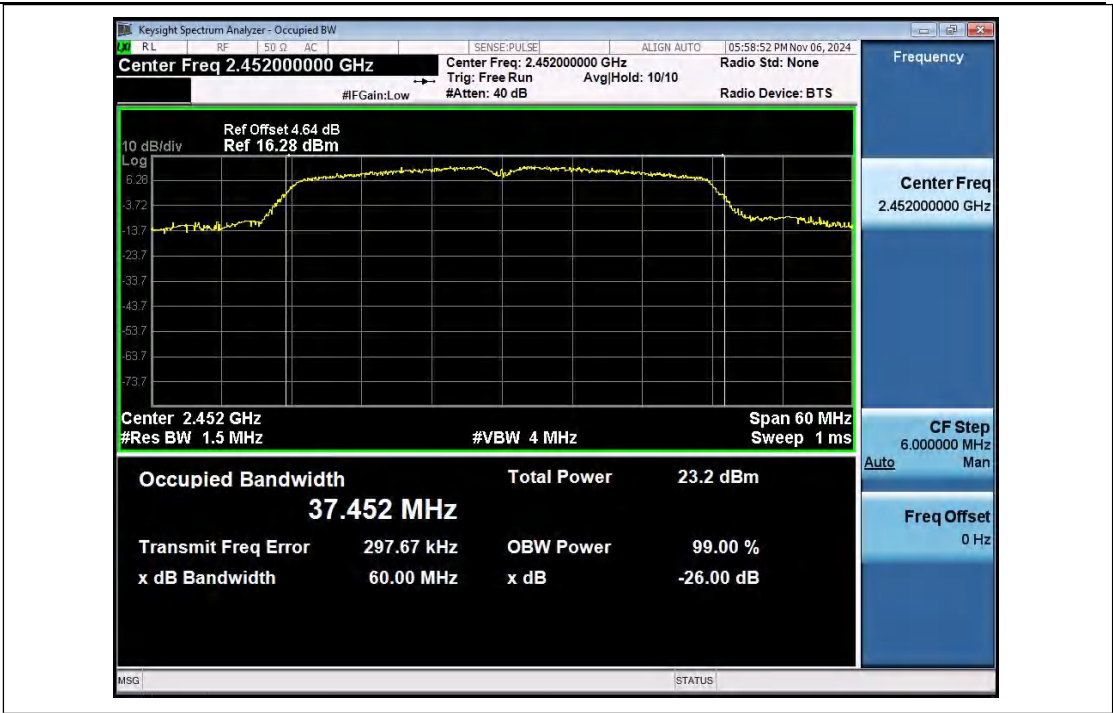
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422





99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452





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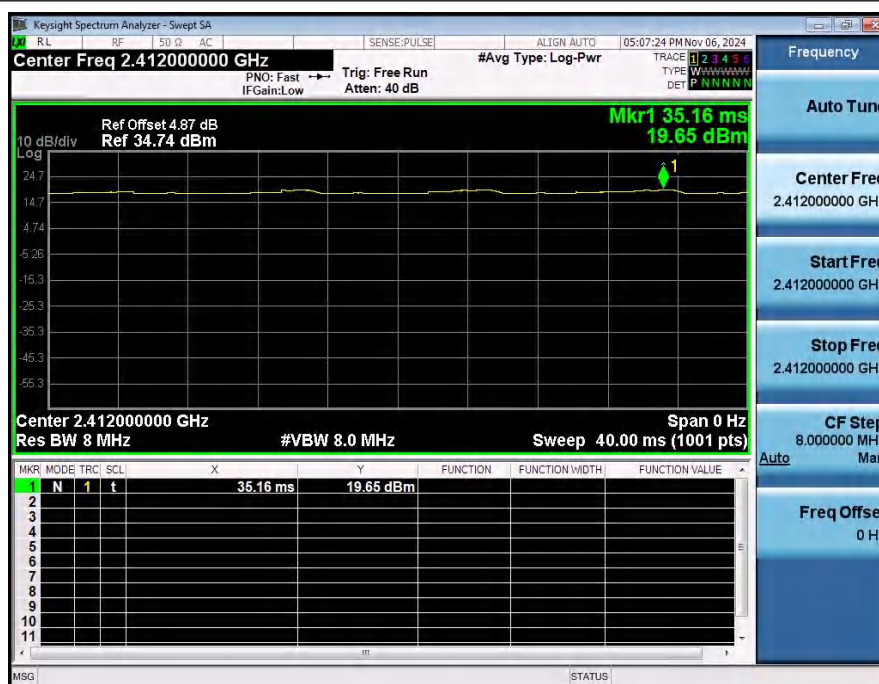
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Appendix C: Duty Cycle

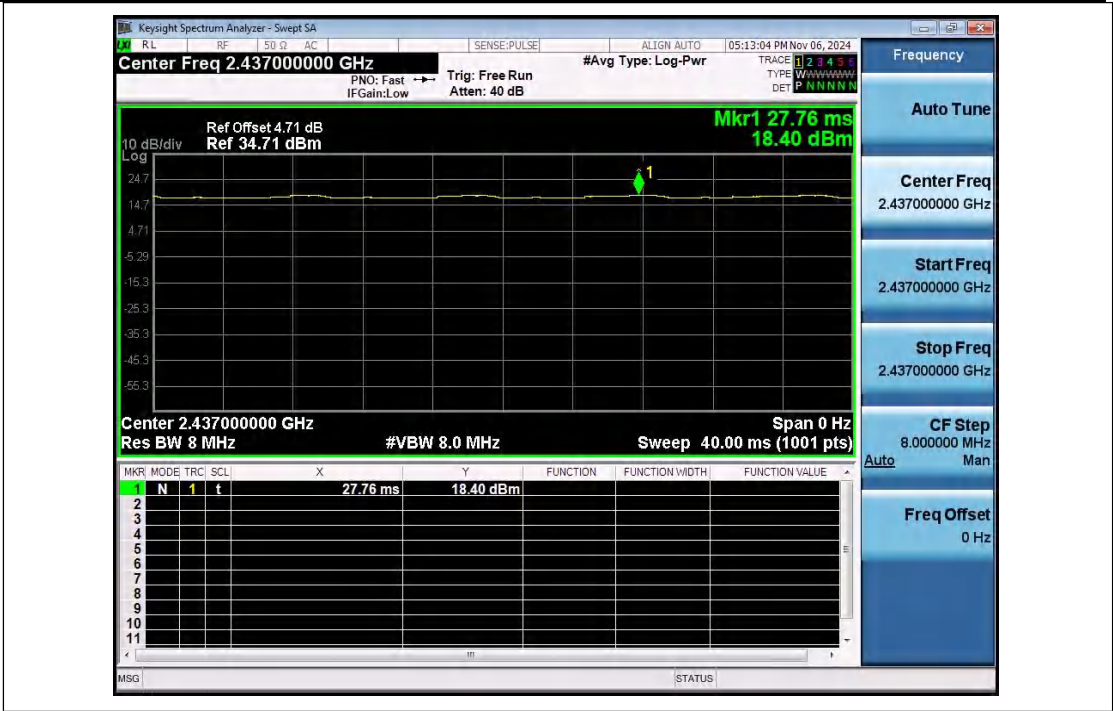
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)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

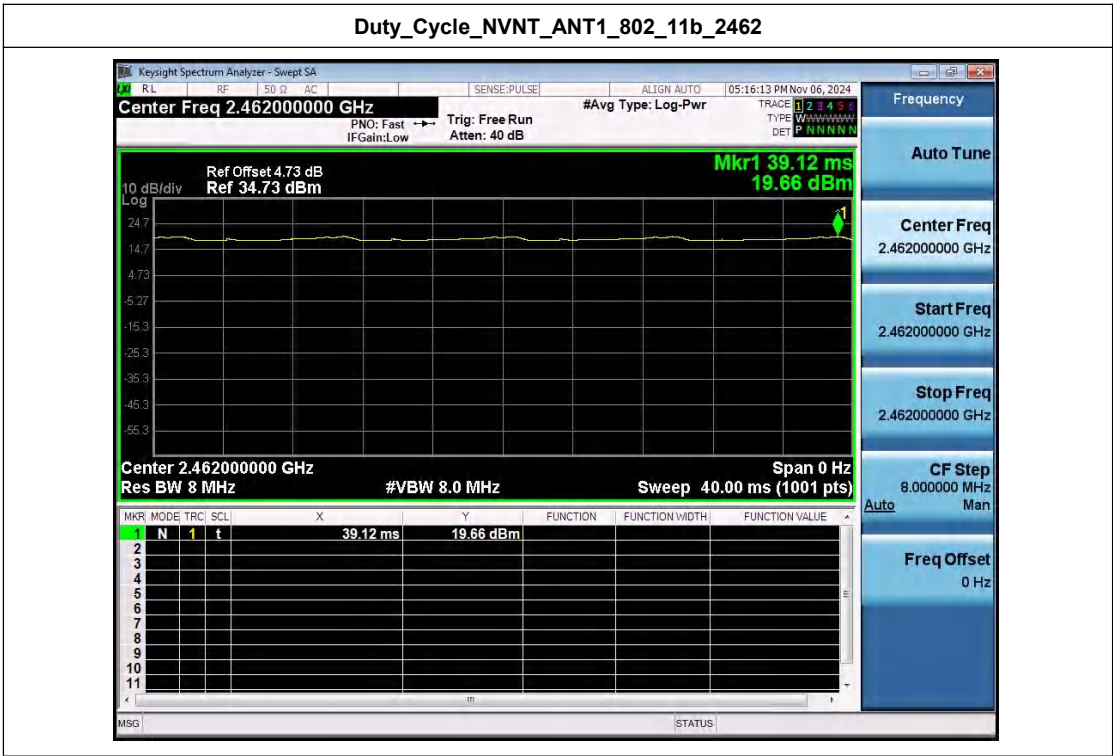


Duty_Cycle_NVNT_ANT1_802_11b_2437



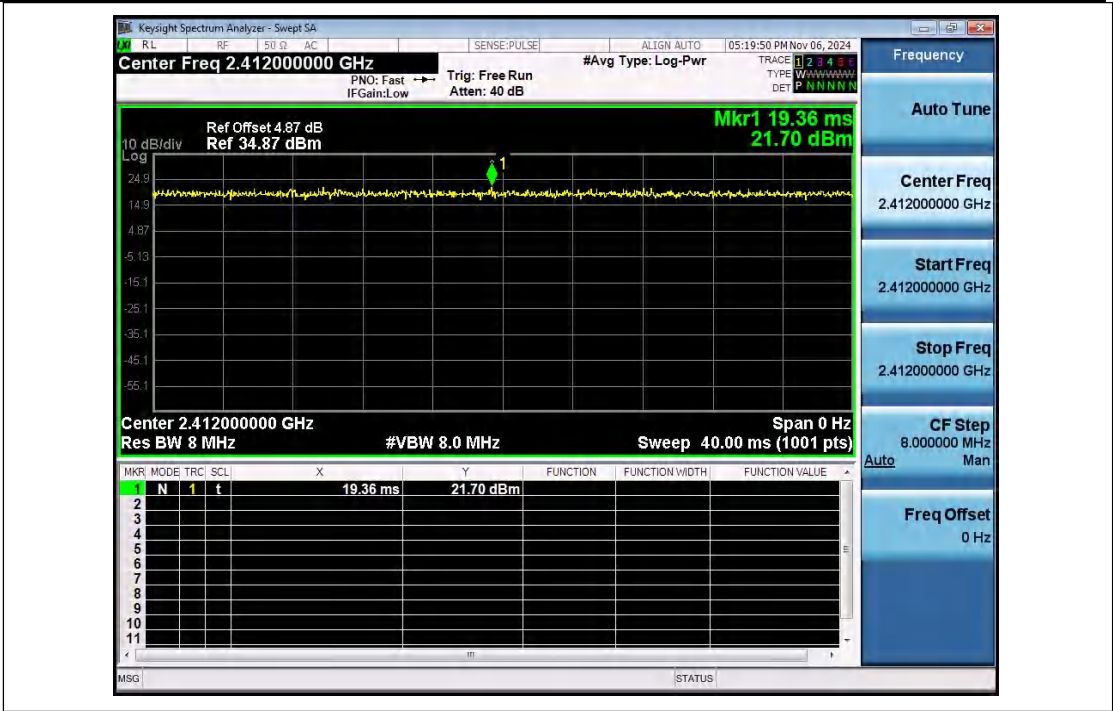


Duty_Cycle_NVNT_ANT1_802_11b_2462

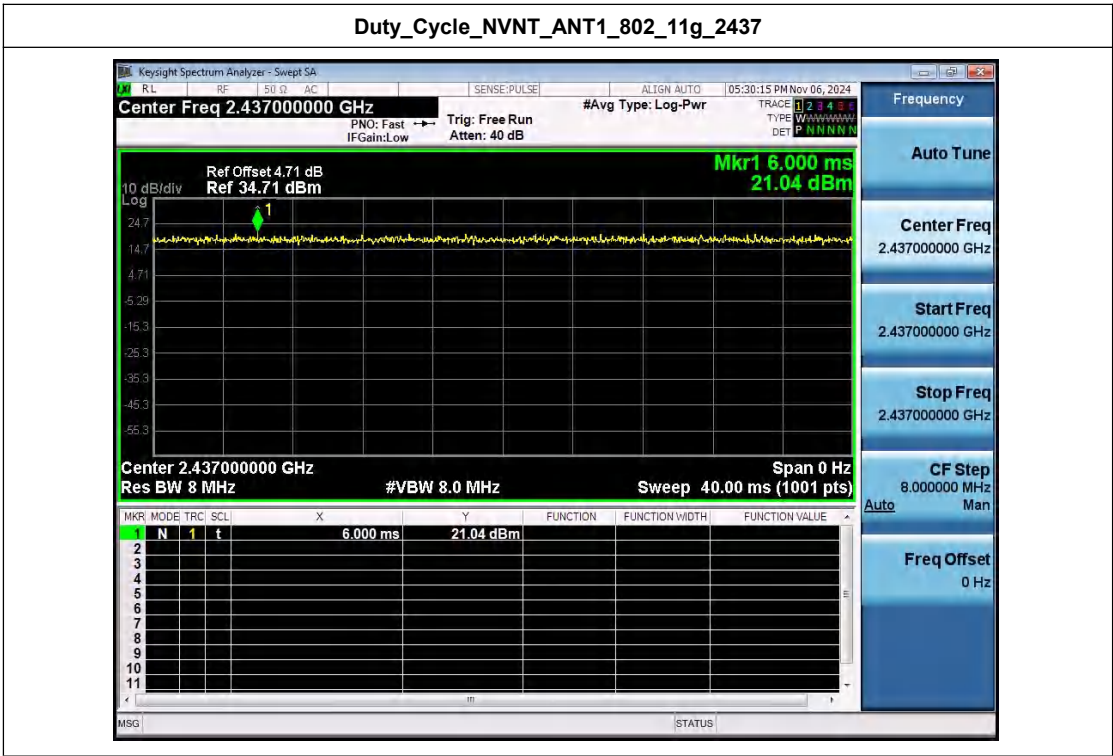


Duty_Cycle_NVNT_ANT1_802_11g_2412



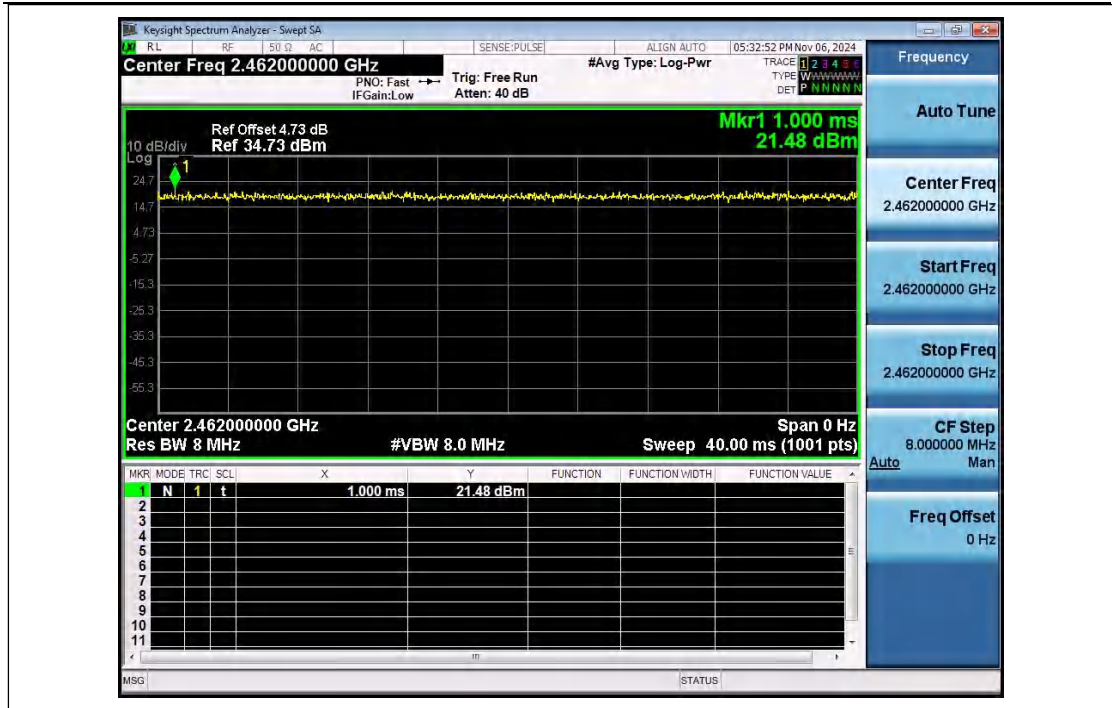


Duty_Cycle_NVNT_ANT1_802_11g_2437

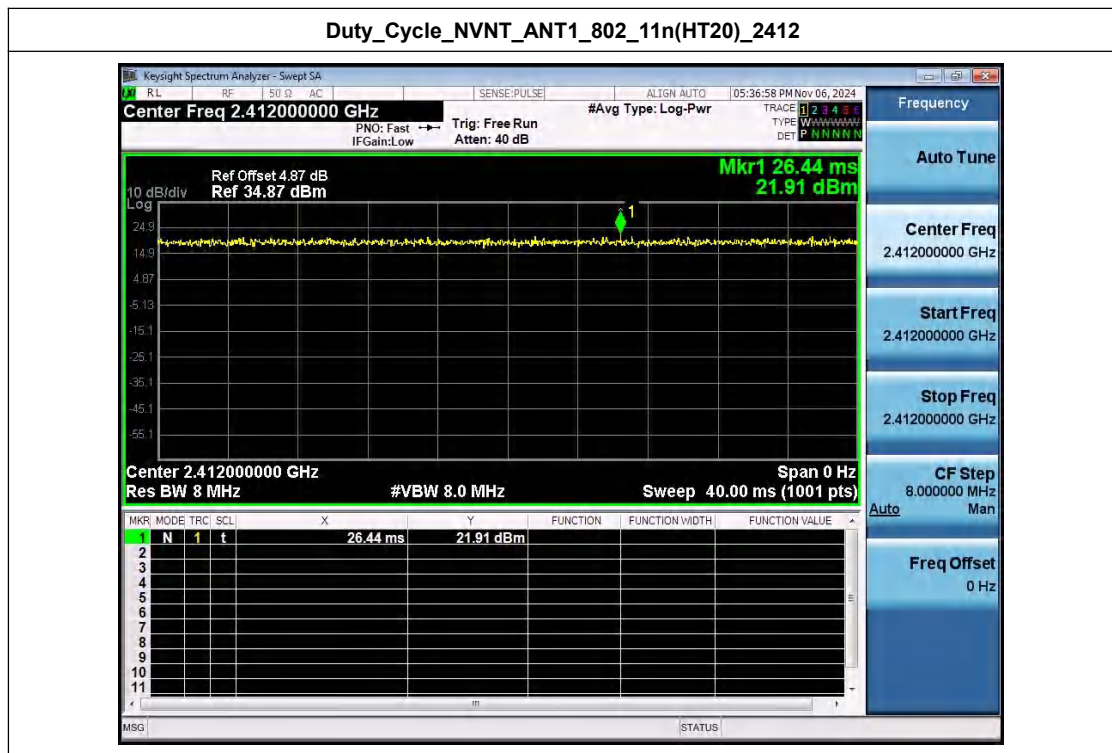


Duty_Cycle_NVNT_ANT1_802_11g_2462



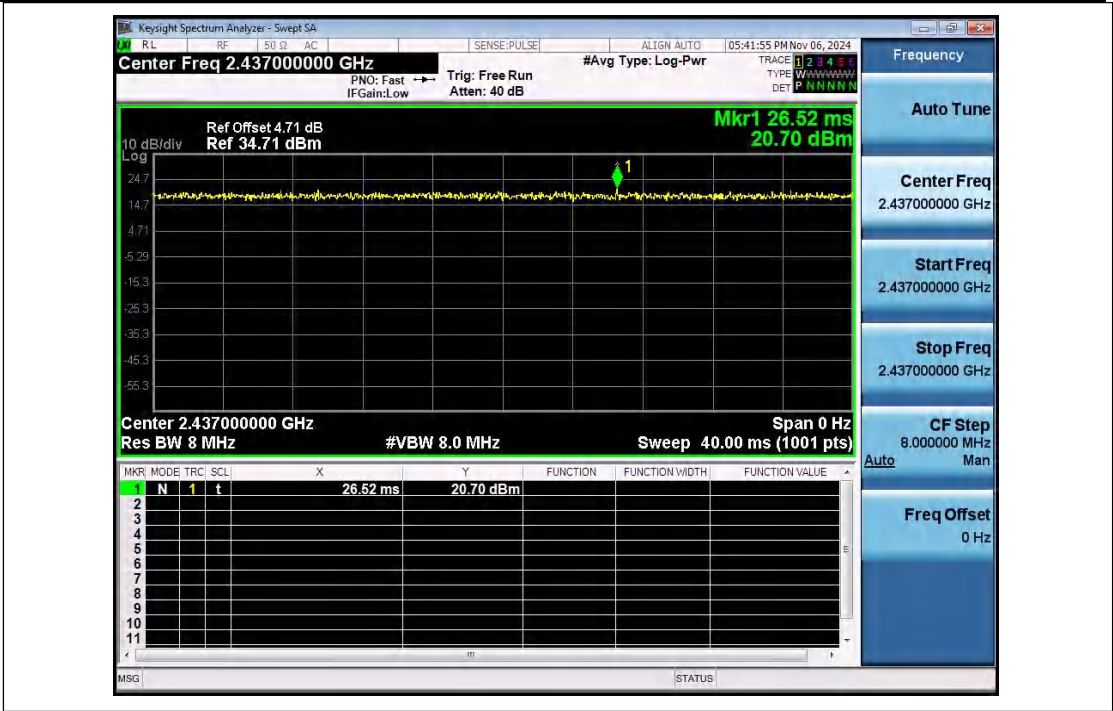


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412

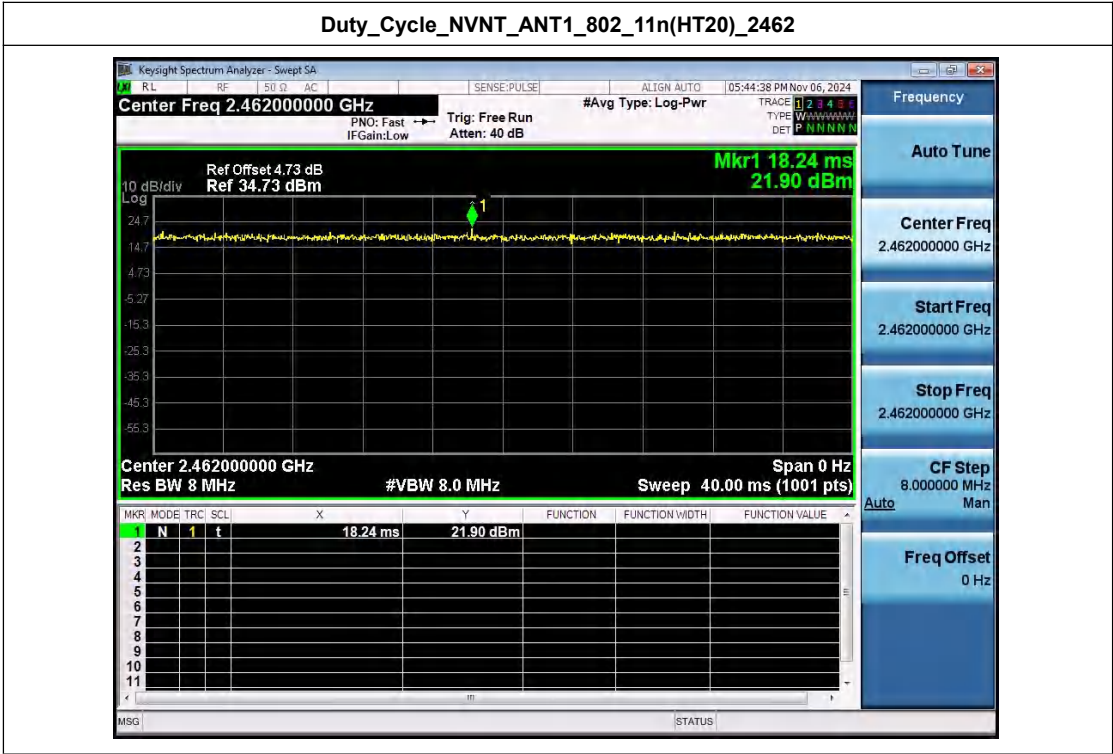


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



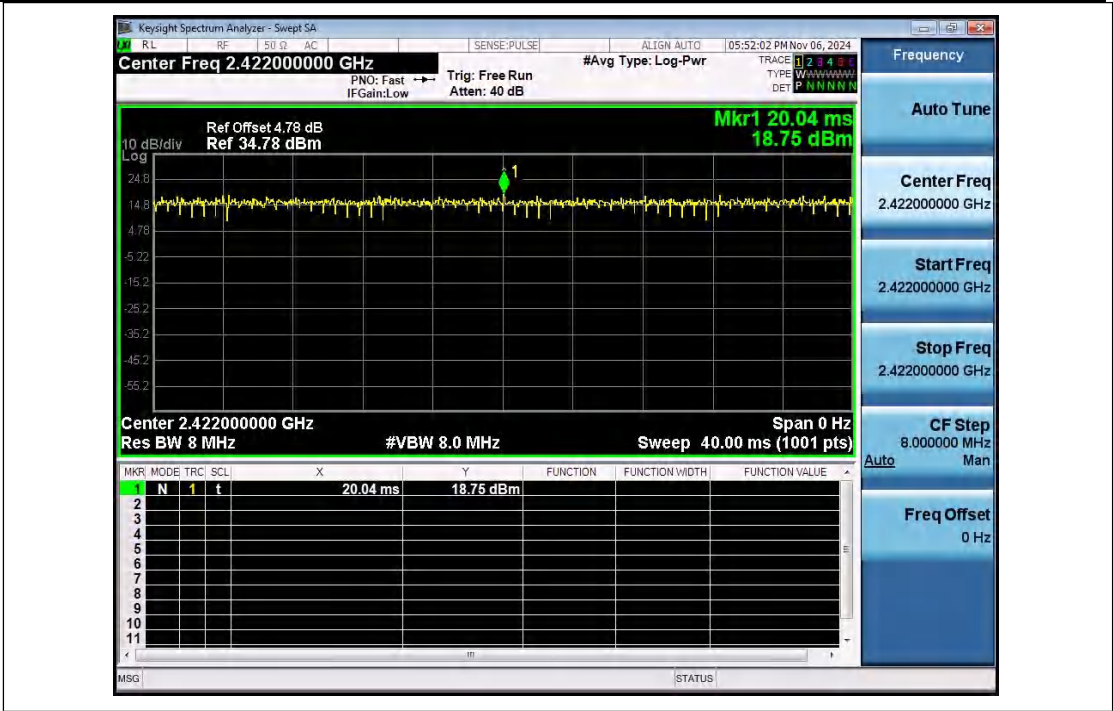


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462

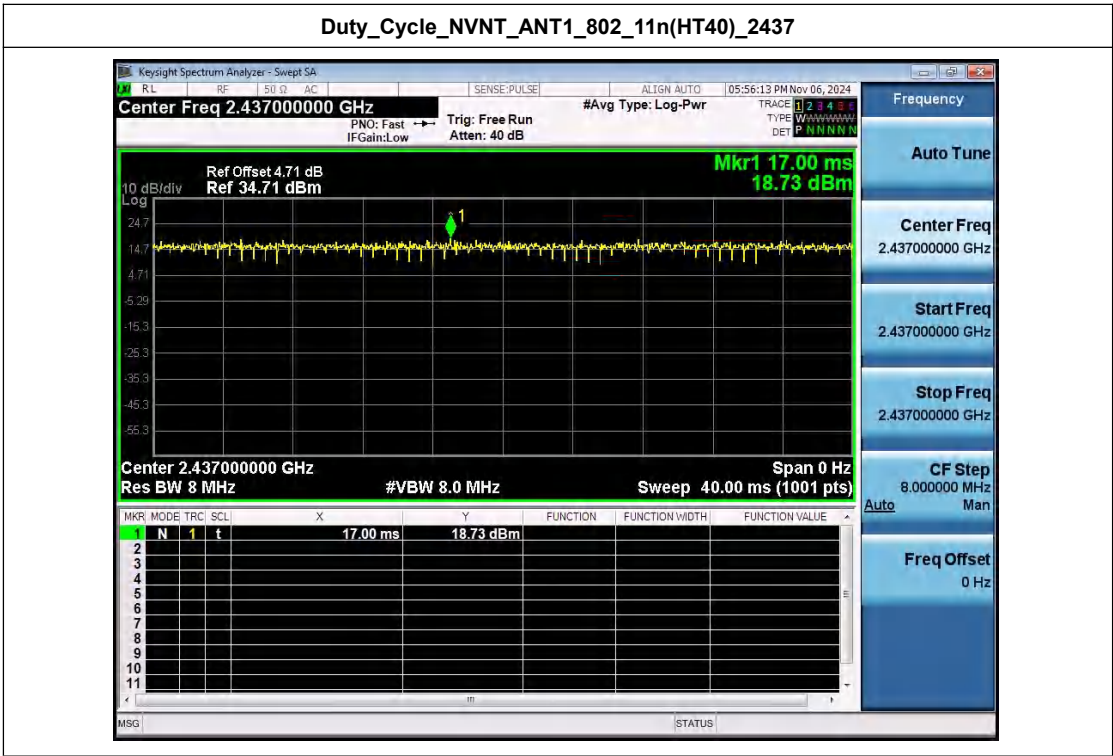


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



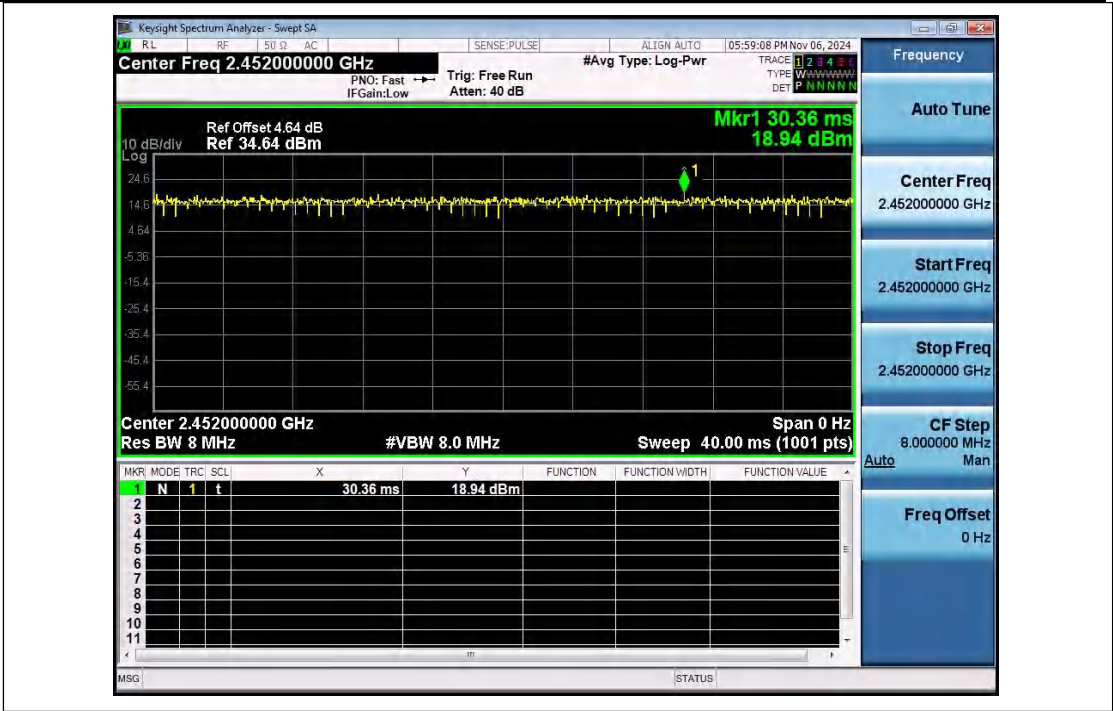


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452





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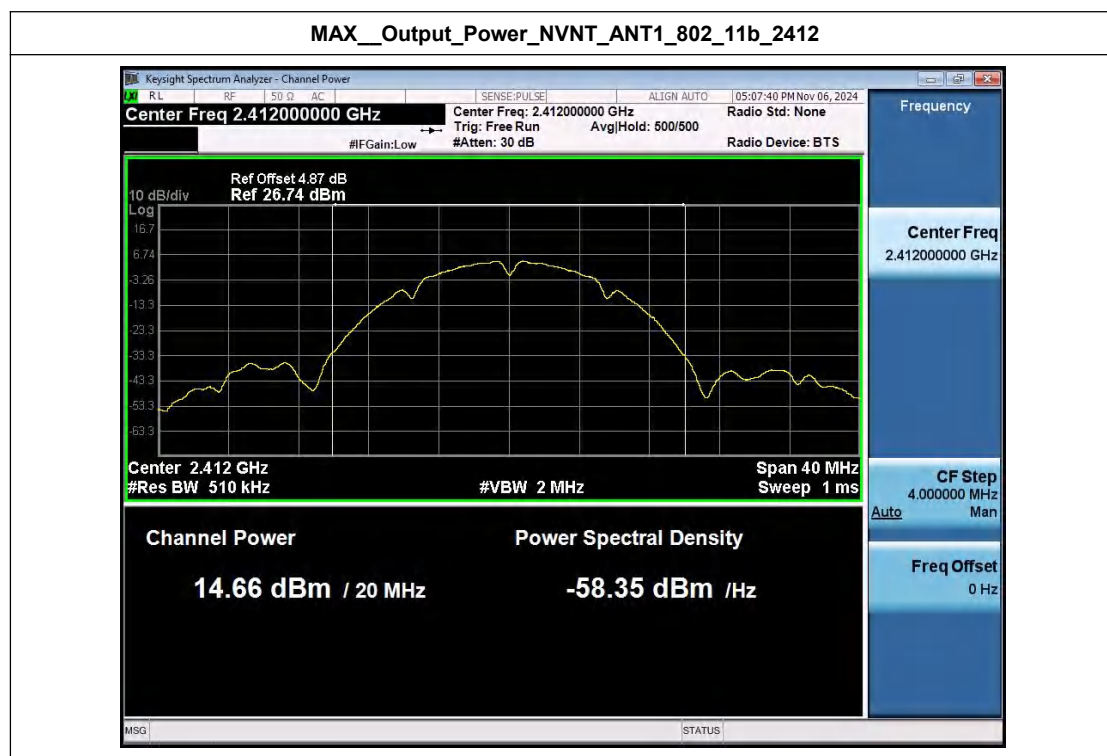
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Appendix D: MAX. Output Power

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	14.66	0.00	14.66	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	14.03	0.00	14.03	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	14.81	0.00	14.81	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	14.56	0.00	14.56	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.80	0.00	13.80	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.42	0.00	14.42	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	14.66	0.00	14.66	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.68	0.00	13.68	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	14.37	0.00	14.37	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	14.16	0.00	14.16	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	13.94	0.00	13.94	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	13.90	0.00	13.90	30	Pass

Note: The cable loss are compensated in the graph.

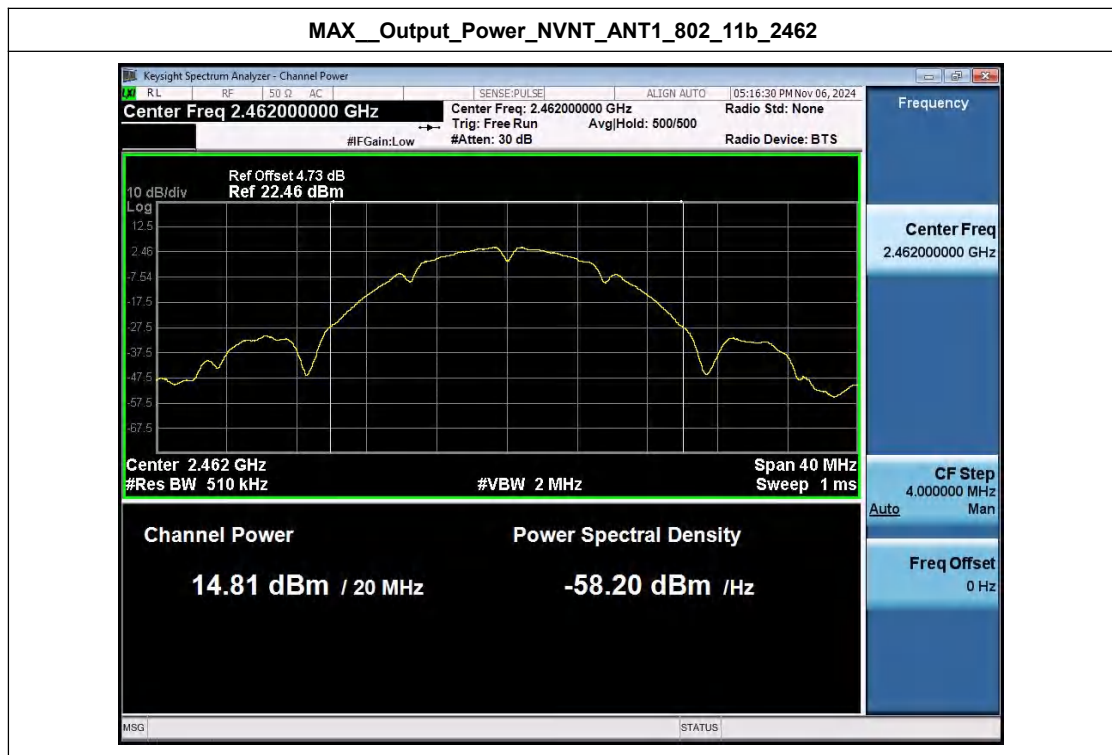


MAX__Output_Power_NVNT_ANT1_802_11b_2437



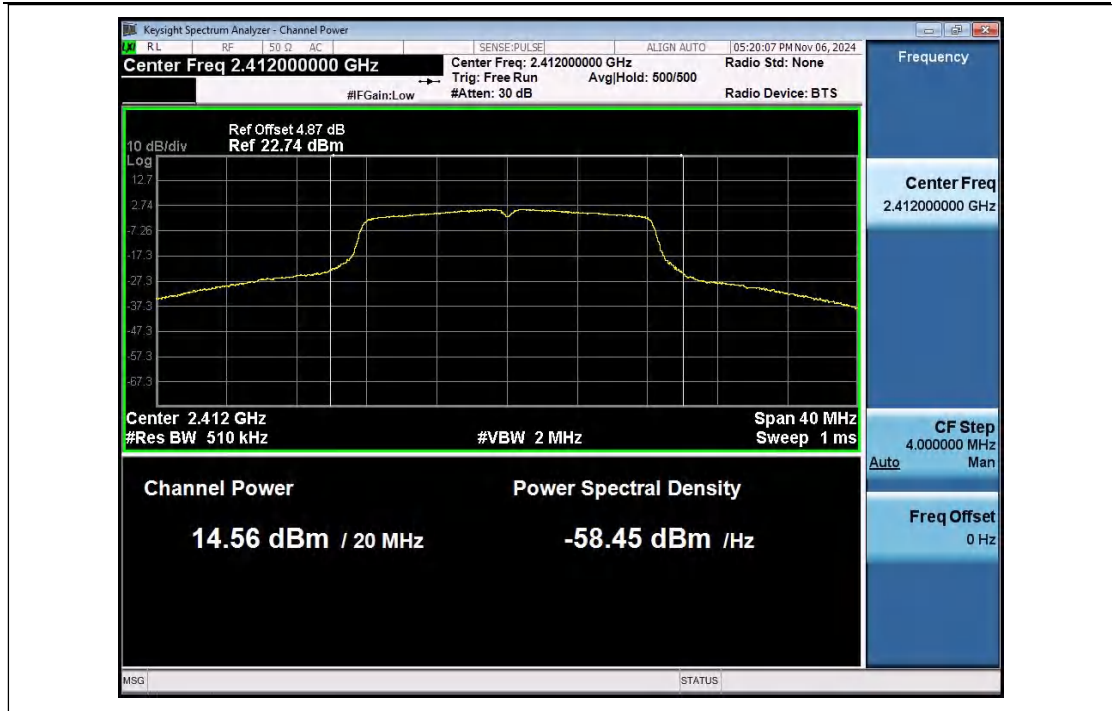


MAX_Output_Power_NVNT_ANT1_802_11b_2462

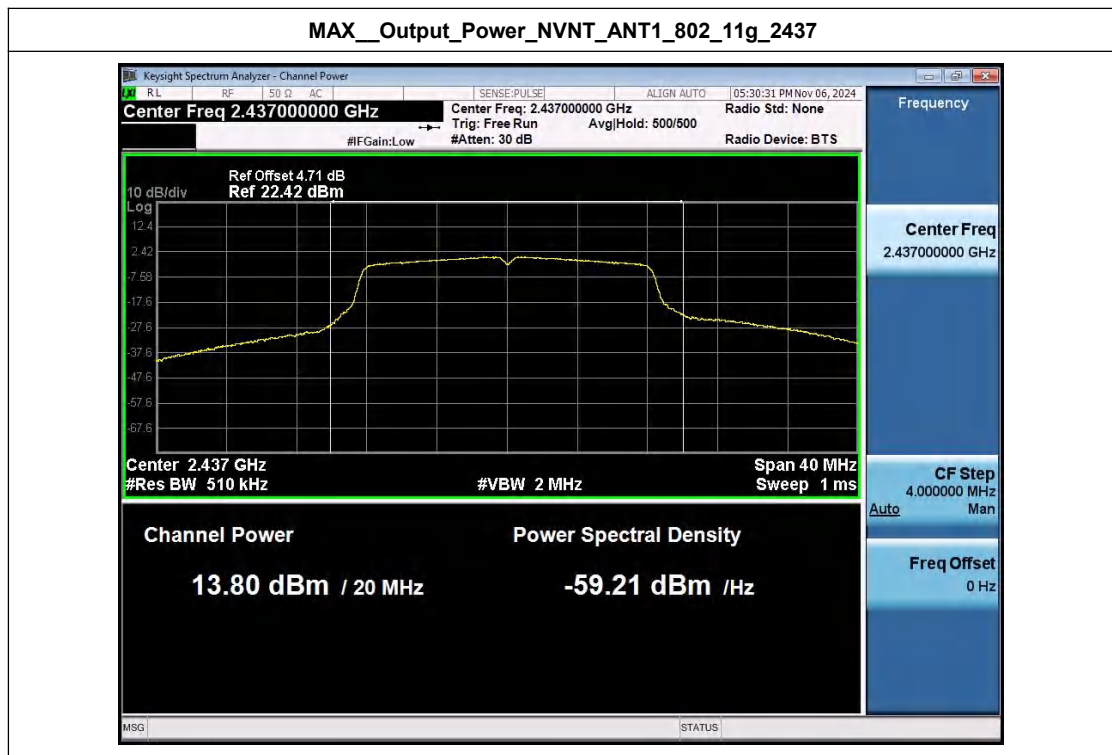


MAX_Output_Power_NVNT_ANT1_802_11g_2412



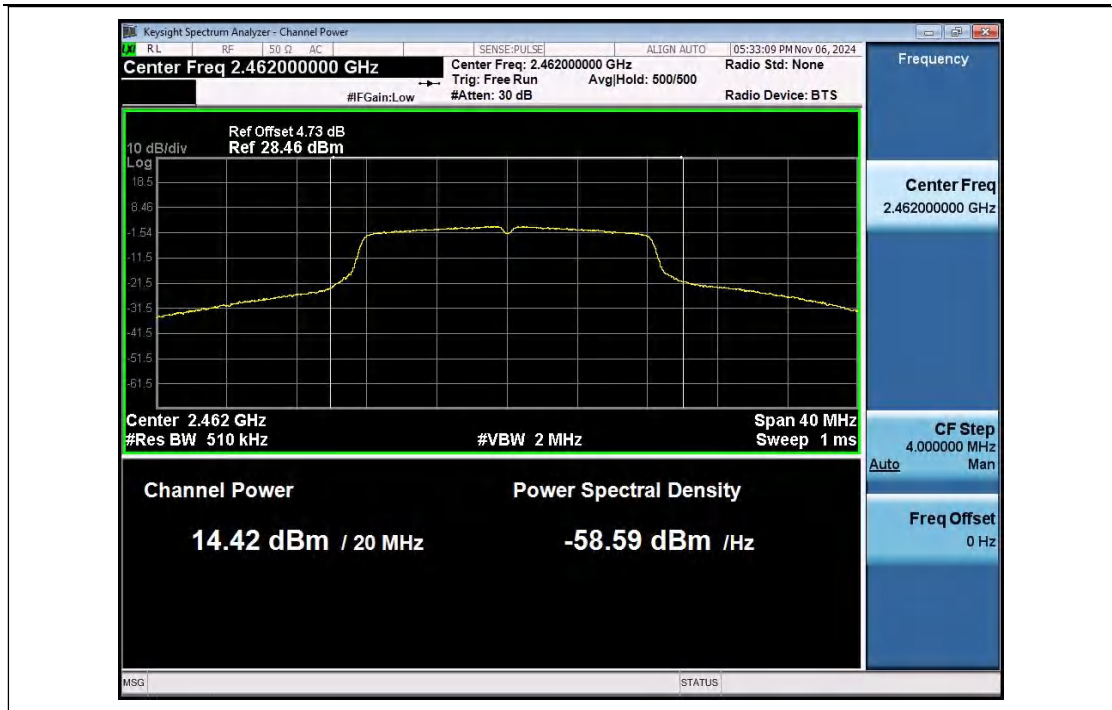


MAX_Output_Power_NVNT_ANT1_802_11g_2437

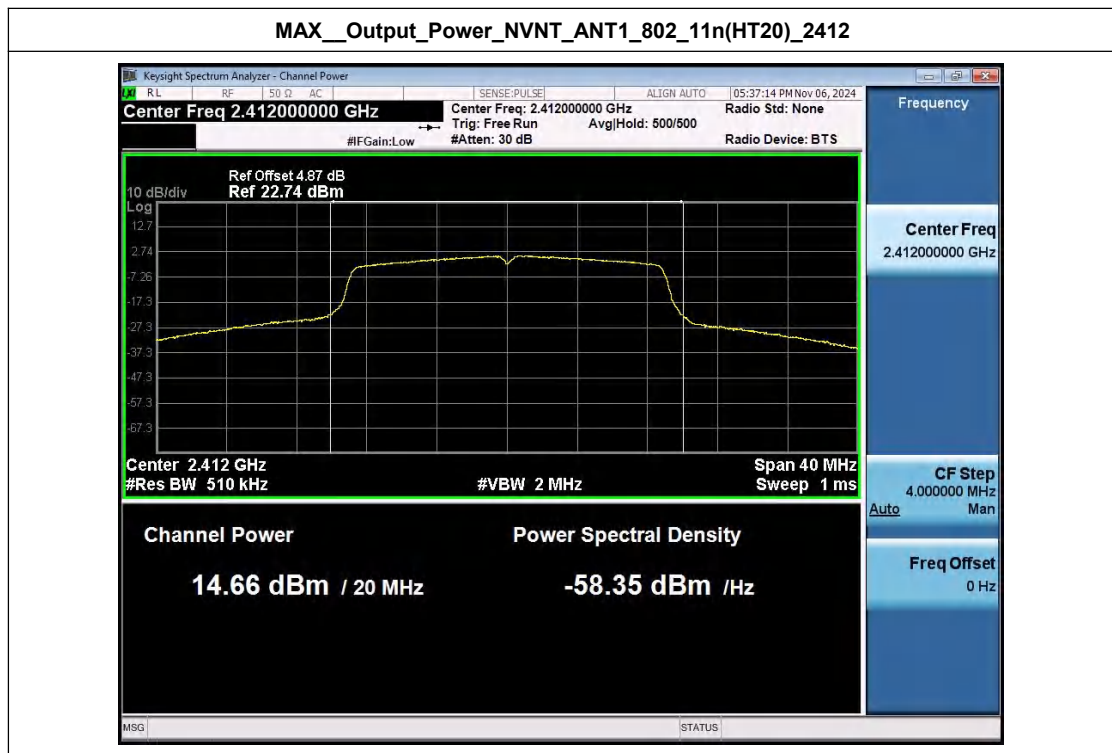


MAX_Output_Power_NVNT_ANT1_802_11g_2462





MAX_Output_Power_NVNT_ANT1_802_11n(HT20)_2412

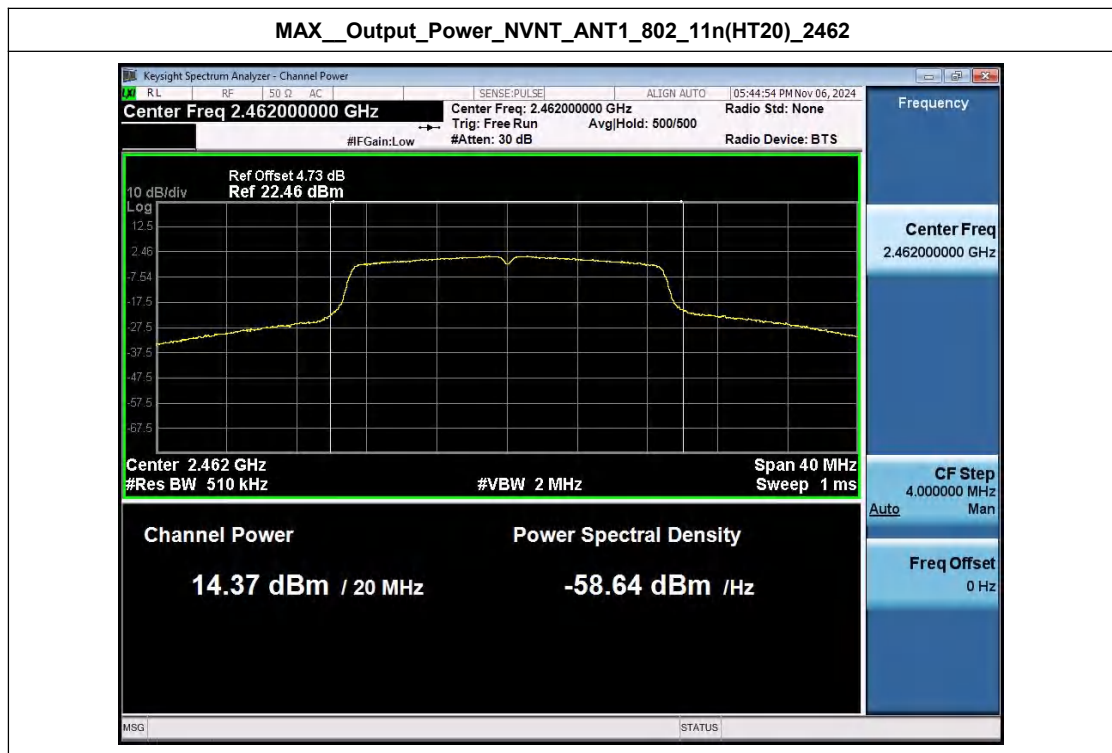


MAX_Output_Power_NVNT_ANT1_802_11n(HT20)_2437





MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462

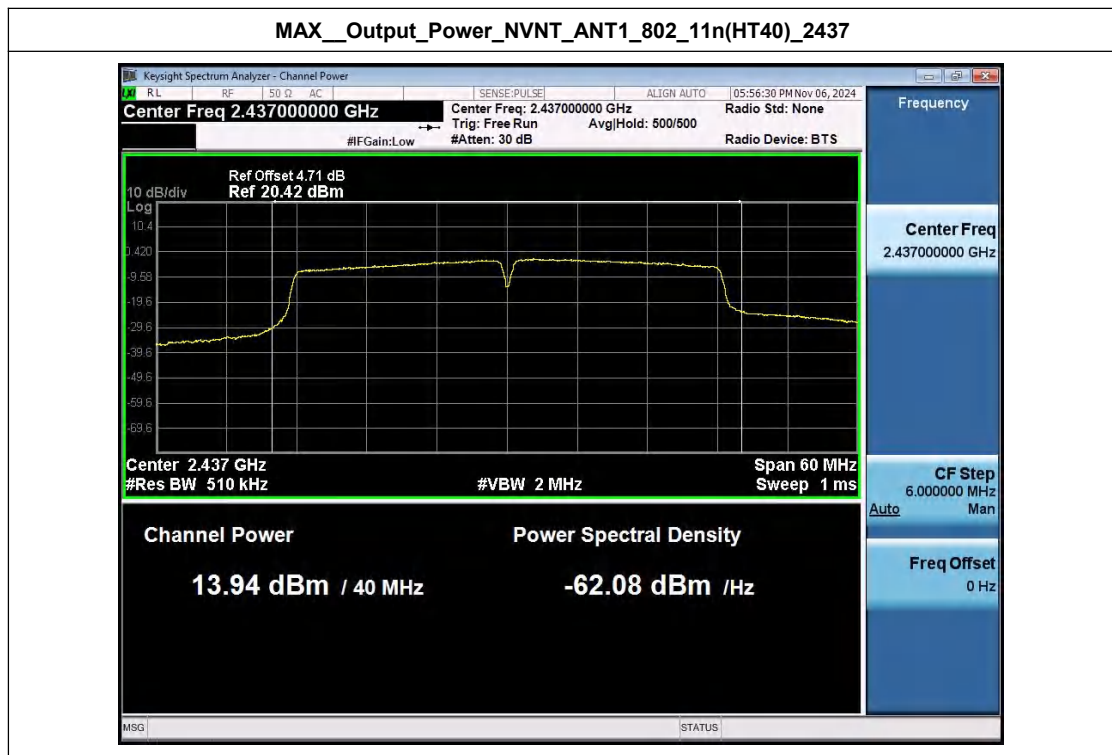


MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422



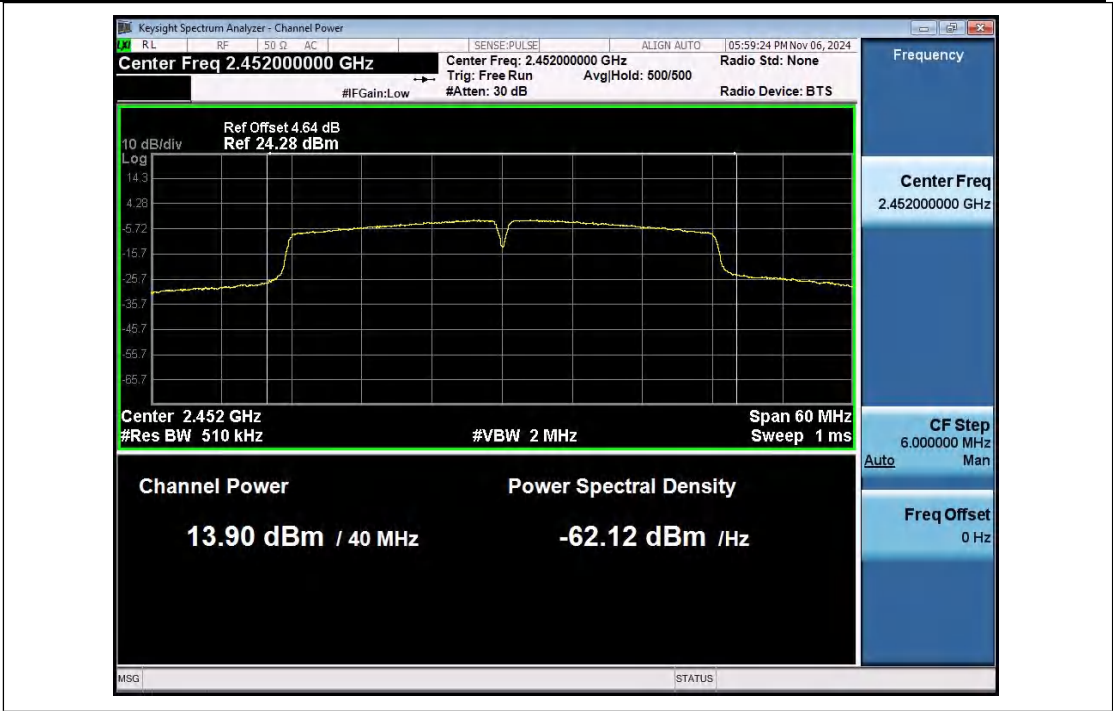


MAX_Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX_Output_Power_NVNT_ANT1_802_11n(HT40)_2452





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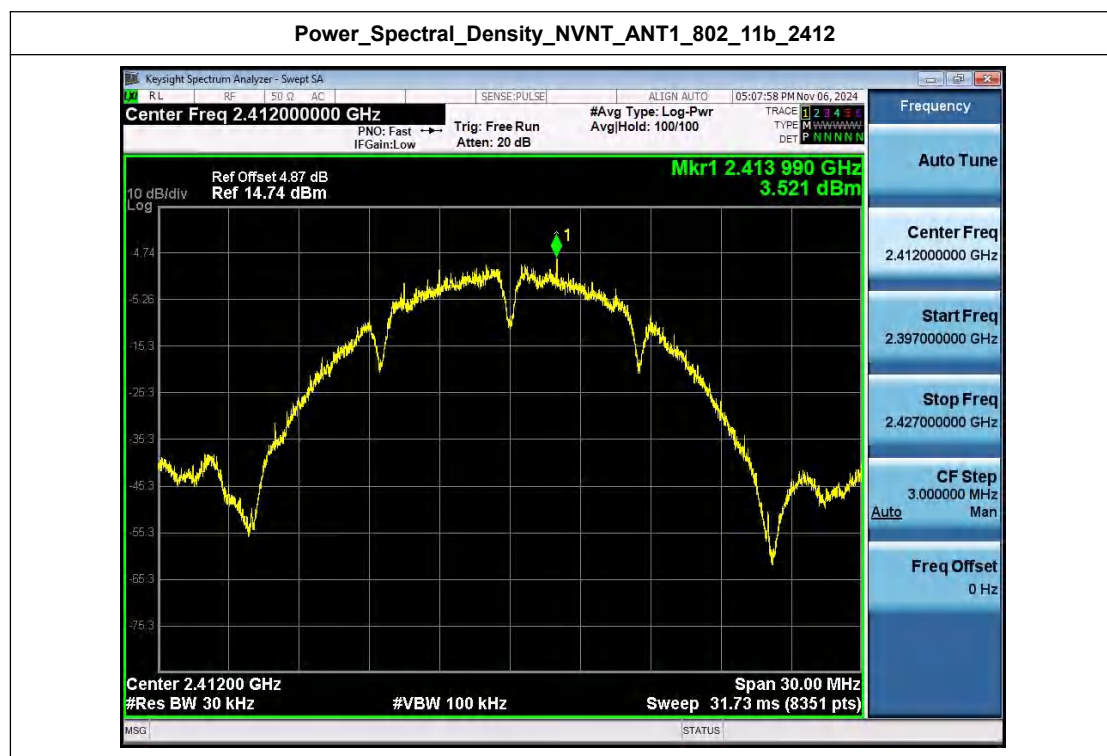
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Appendix E: Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD (dBm/30kHz)	Duty factor (dB)	RB factor (dB)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	3.52	0.00	-10.00	-6.48	8	Pass
NVNT	ANT1	802.11b	2437.00	2.51	0.00	-10.00	-7.49	8	Pass
NVNT	ANT1	802.11b	2462.00	3.23	0.00	-10.00	-6.77	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.04	0.00	-10.00	-10.04	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.03	0.00	-10.00	-11.03	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.62	0.00	-10.00	-10.62	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	0.32	0.00	-10.00	-9.68	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-0.58	0.00	-10.00	-10.58	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-0.12	0.00	-10.00	-10.12	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-3.25	0.00	-10.00	-13.25	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-3.92	0.00	-10.00	-13.93	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-4.02	0.00	-10.00	-14.02	8	Pass

Note: The cable loss are compensated in the graph.

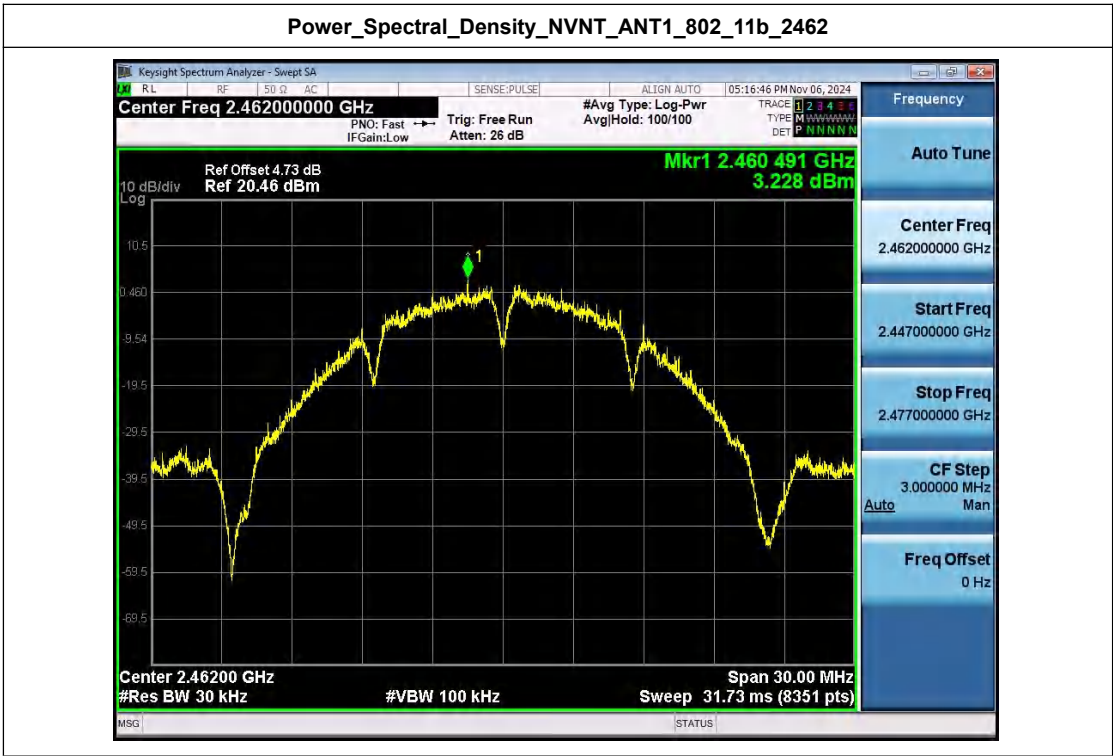


Power_Spectral_Density_NVNT_ANT1_802_11b_2437





Power_Spectral_Density_NVNT_ANT1_802_11b_2462

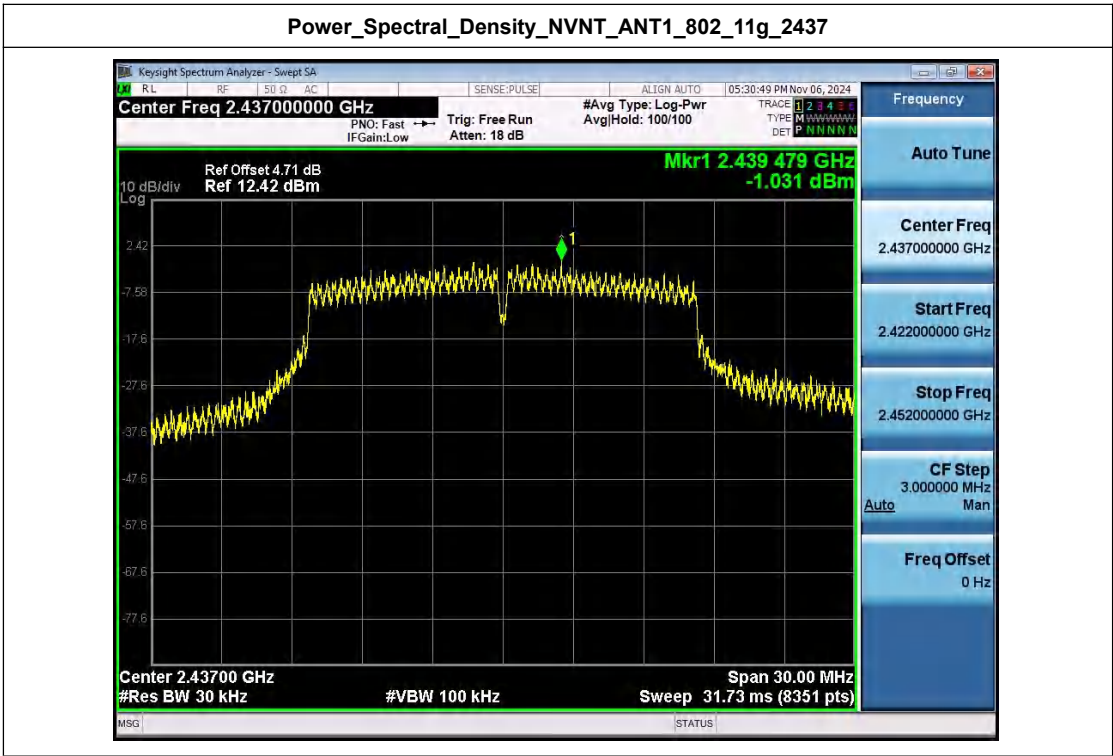


Power_Spectral_Density_NVNT_ANT1_802_11g_2412



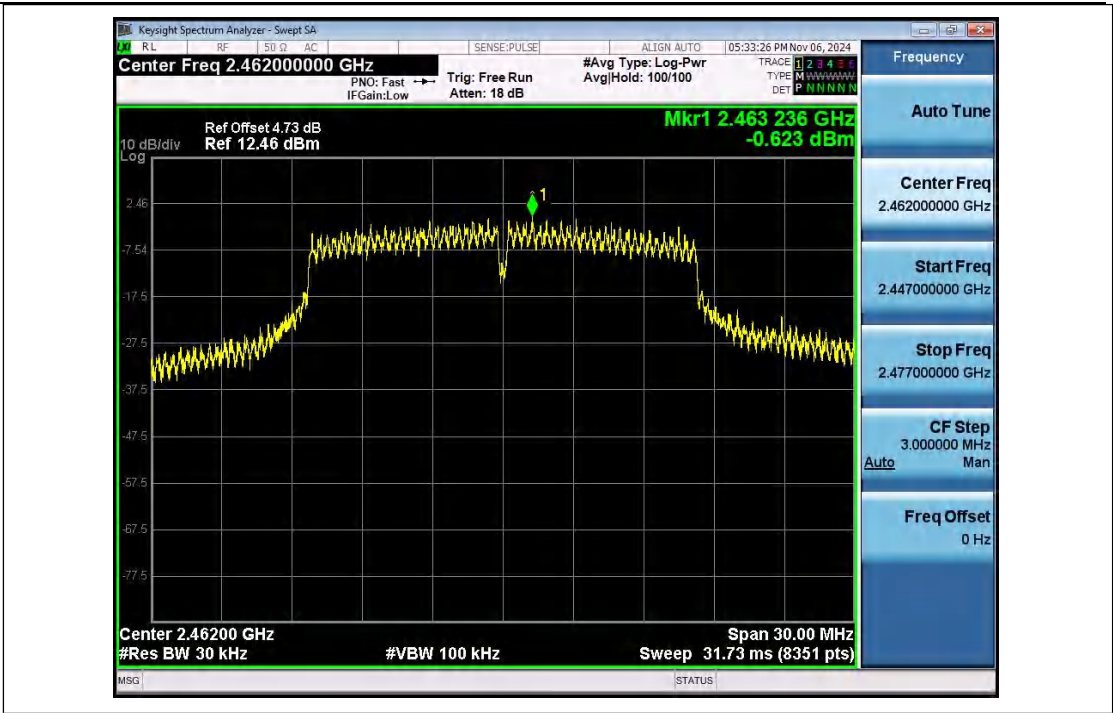


Power_Spectral_Density_NVNT_ANT1_802_11g_2437

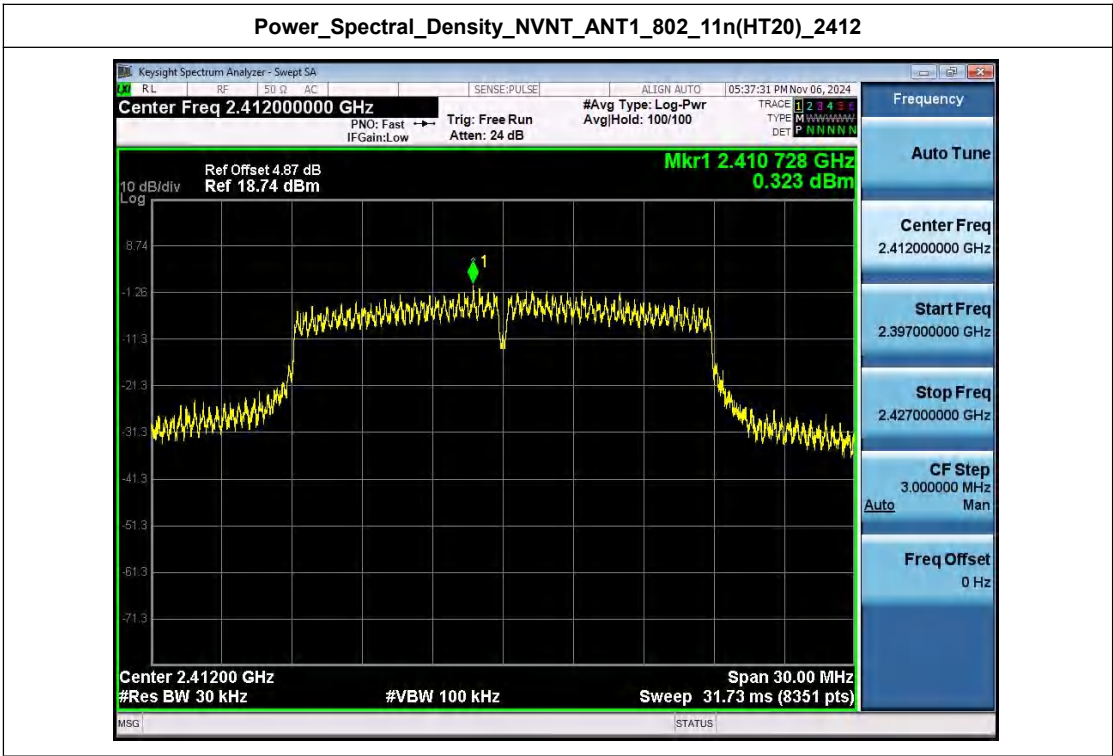


Power_Spectral_Density_NVNT_ANT1_802_11g_2462





Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412

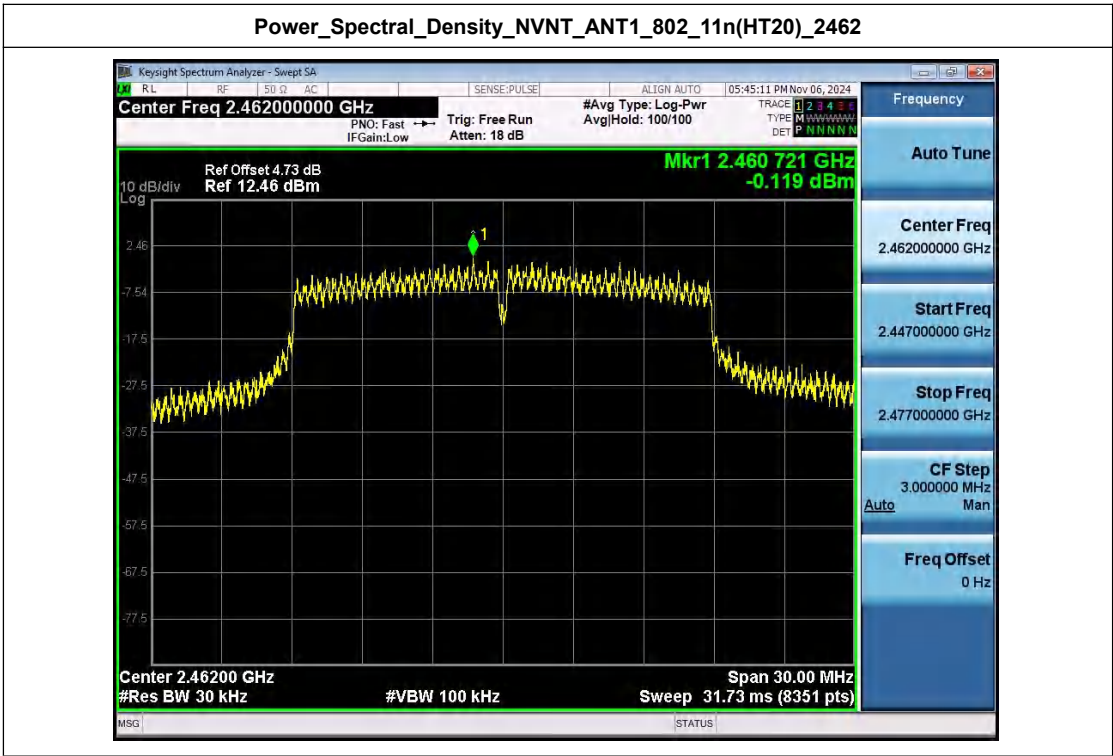


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



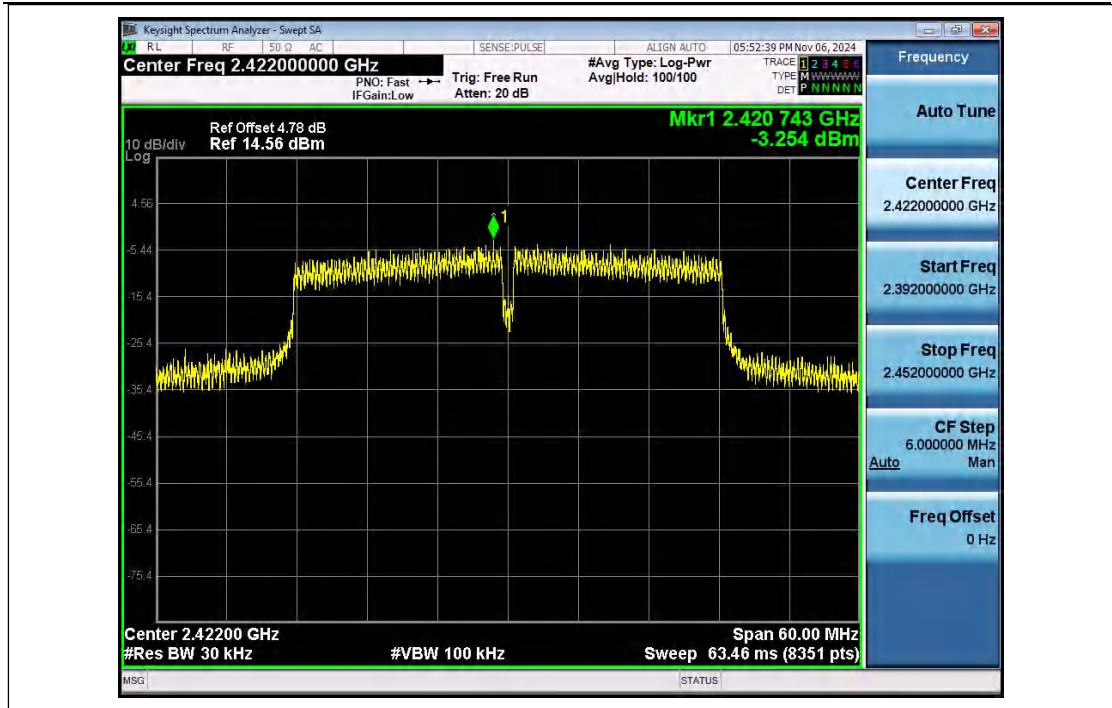


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462

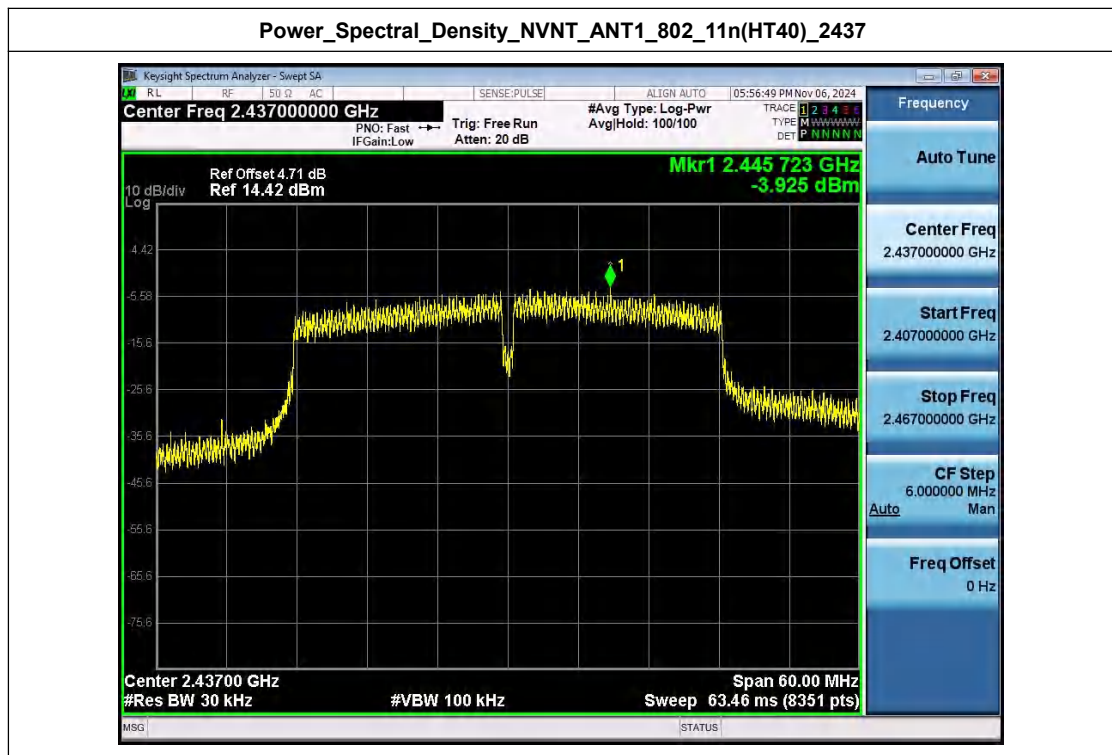


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422





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

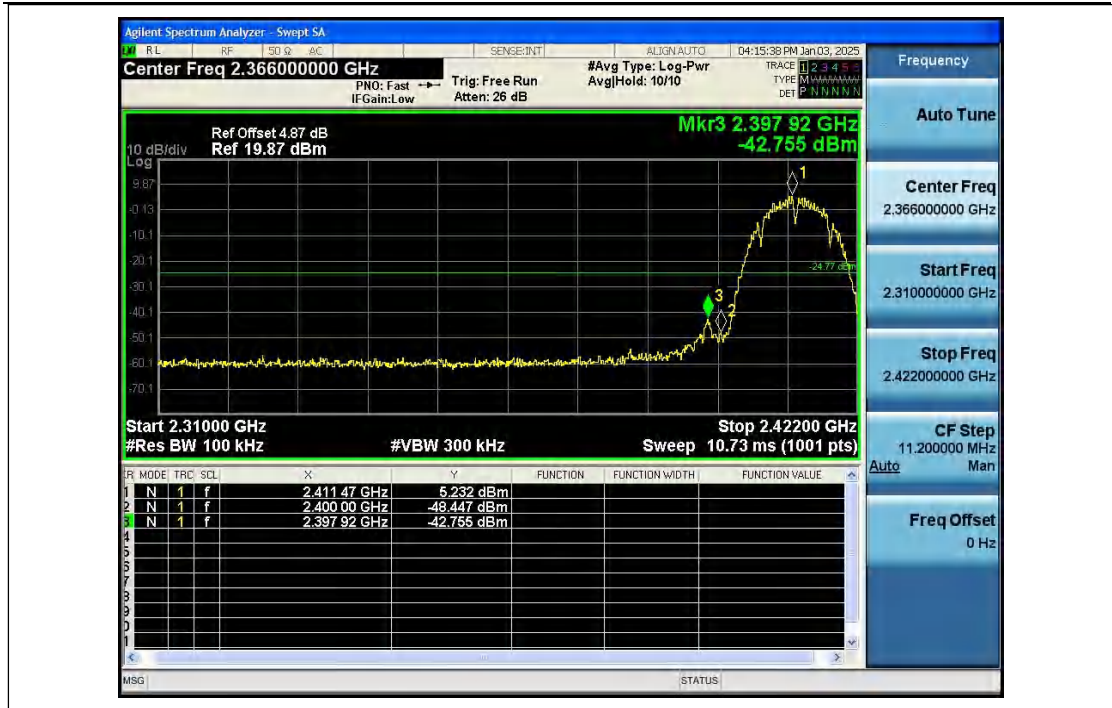
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2397.920	5.229	-42.755	-24.771	Pass
NVNT	ANT1	802.11b	2462.00	2484.688	5.466	-56.081	-24.534	Pass
NVNT	ANT1	802.11g	2412.00	2398.032	0.938	-33.979	-29.062	Pass
NVNT	ANT1	802.11g	2462.00	2484.640	0.605	-44.185	-29.395	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.928	0.179	-36.352	-29.821	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.448	-0.145	-42.888	-30.145	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2394.612	-7.590	-38.105	-37.590	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-8.399	-39.644	-38.399	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

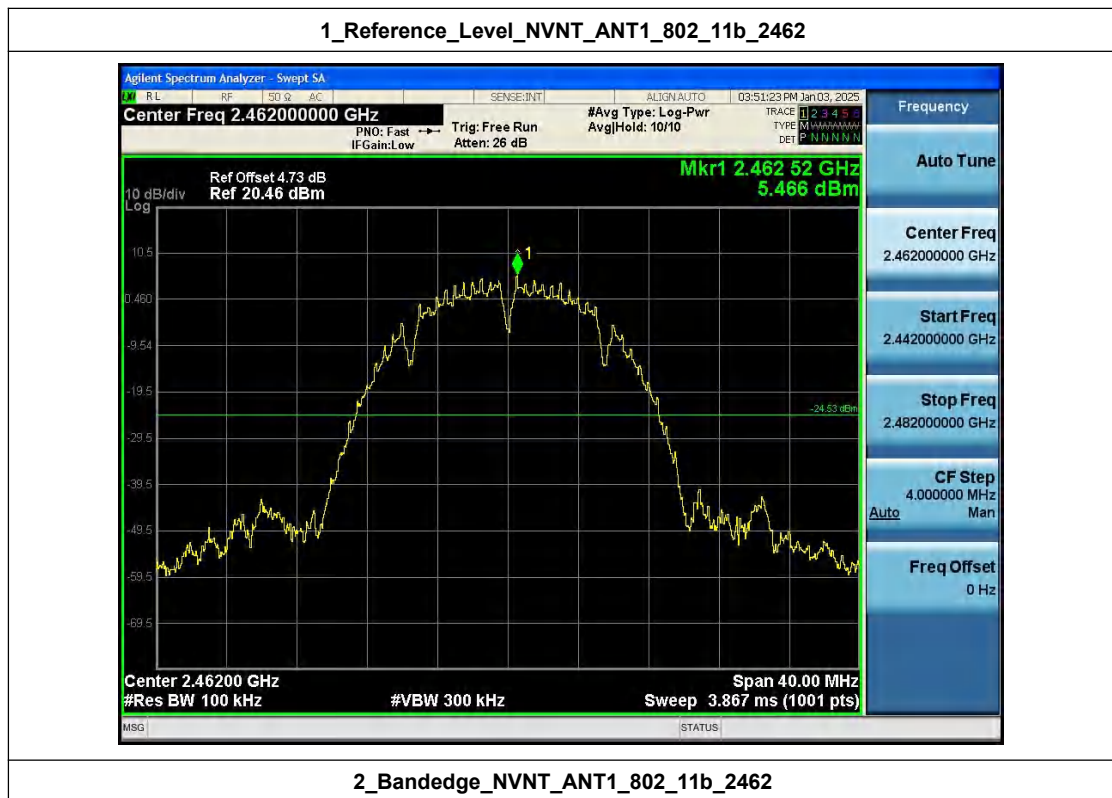


2_Bandedge_NVNT_ANT1_802_11b_2412



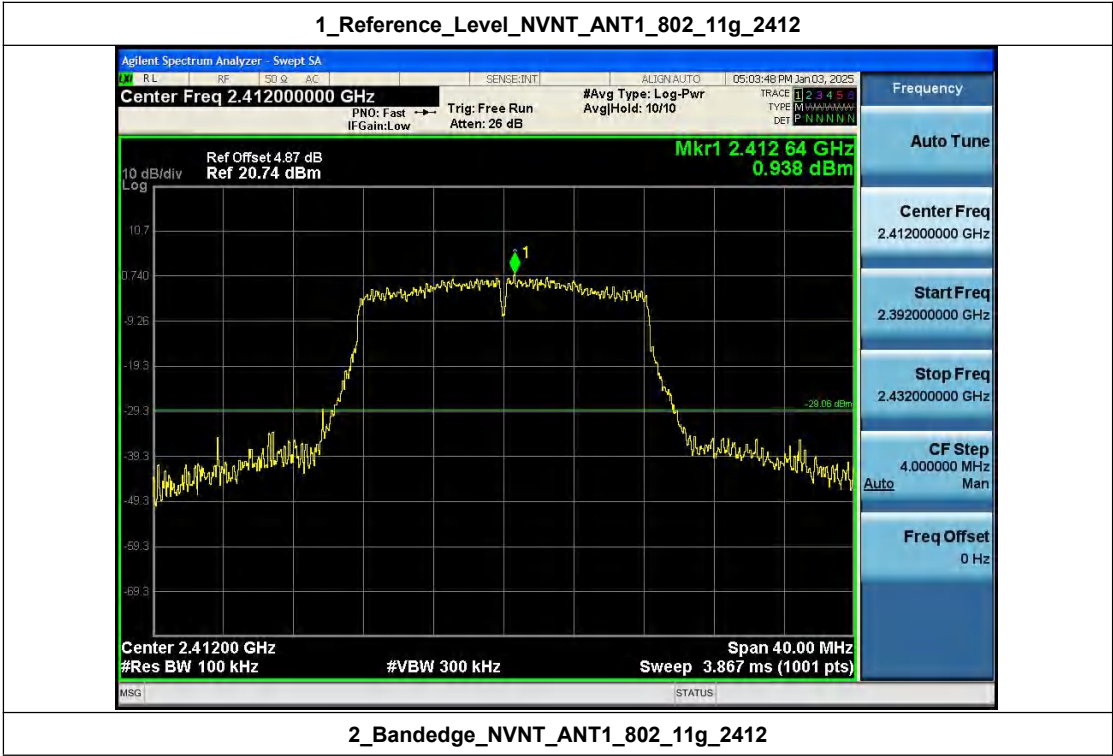


1_Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462







1_Reference_Level_NVNT_ANT1_802_11g_2462

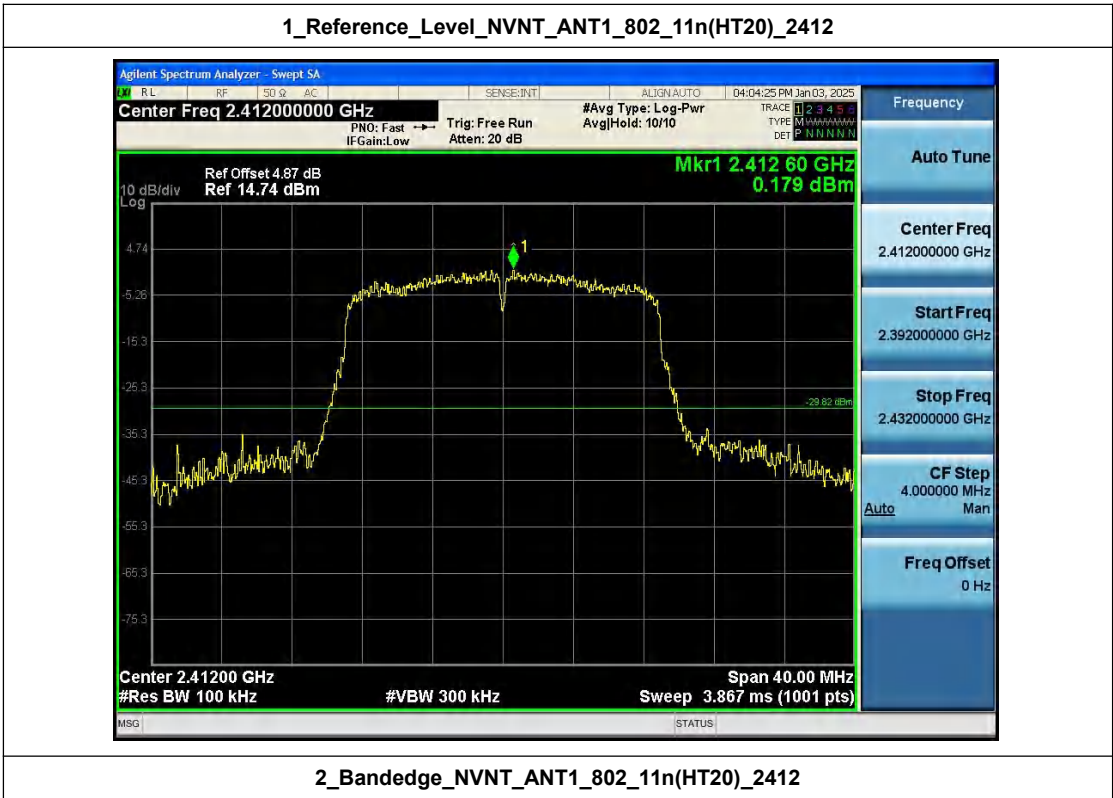


2_Bandedge_NVNT_ANT1_802_11g_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

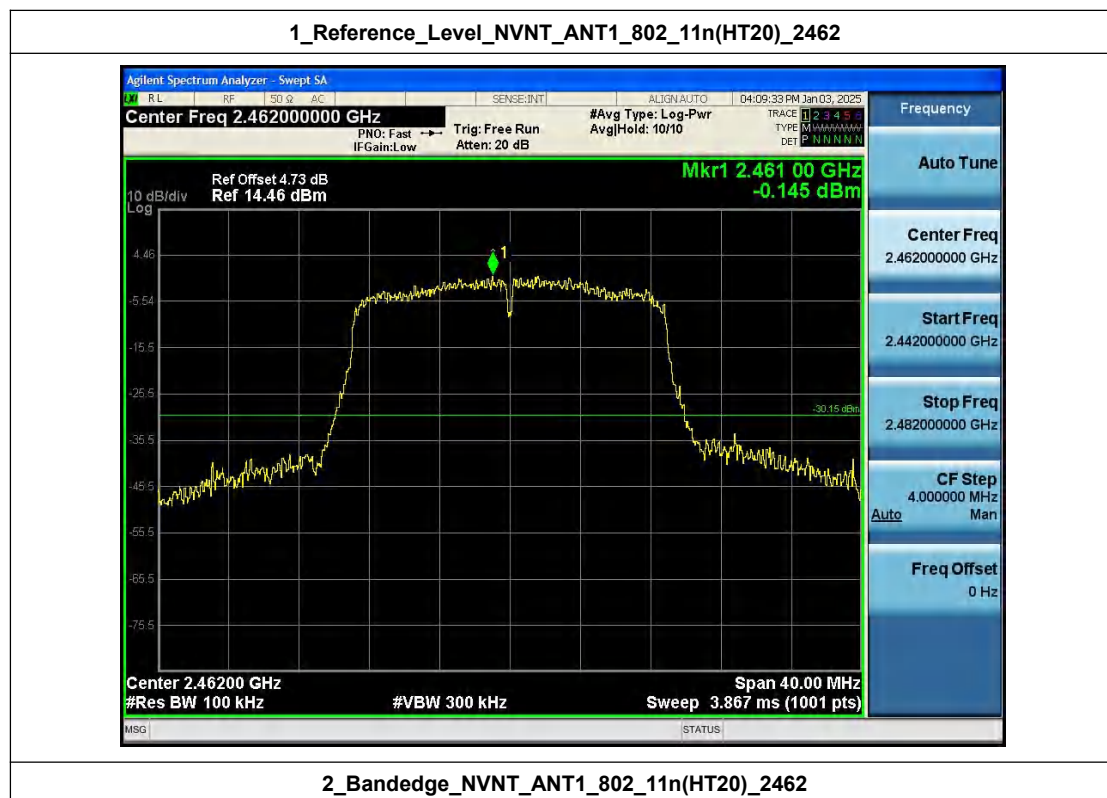


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412





1 Reference Level NVNT ANT1 802 11n(HT20) 2462



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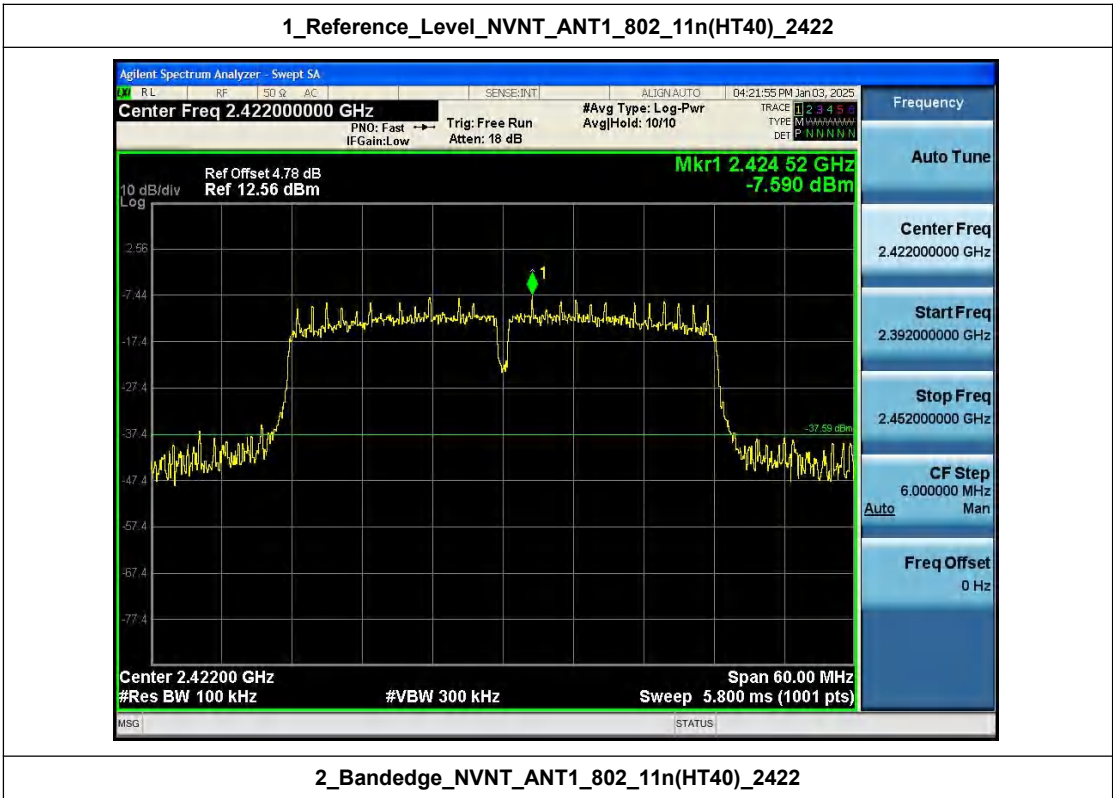
Tel:(86)0755-26066440 Email:service@anbotek.com

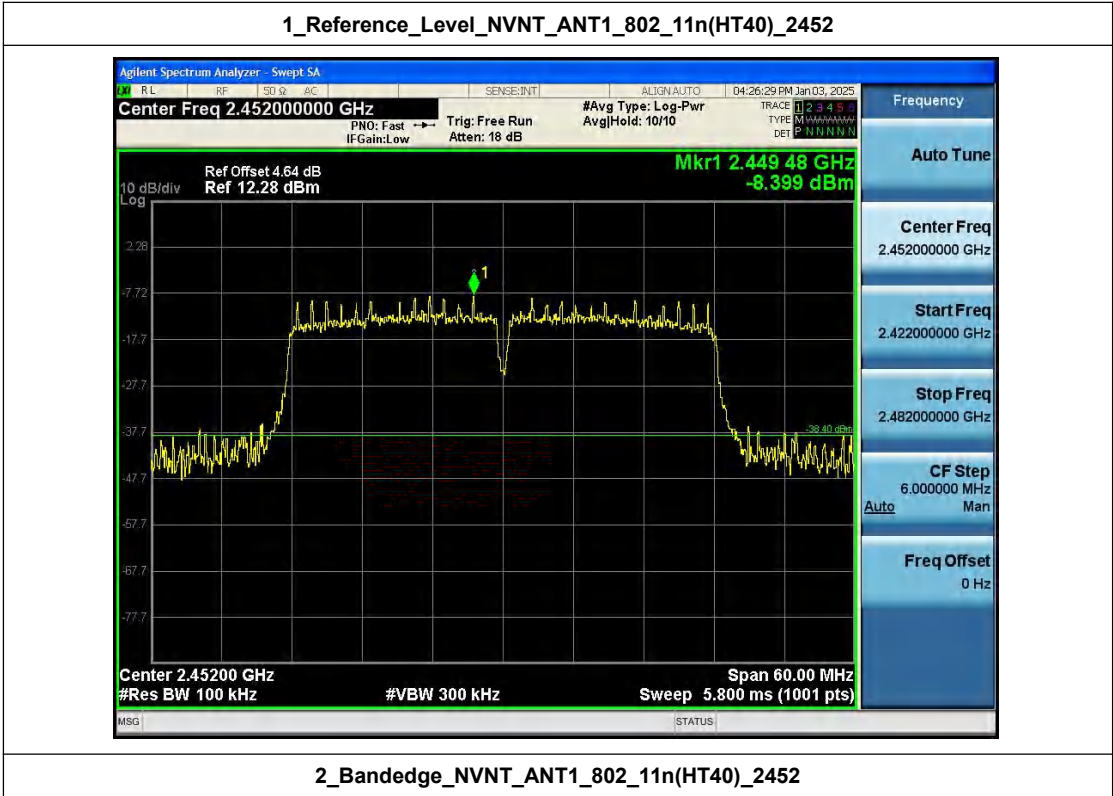


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Appendix G: Spurious Emission

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	4824.240	5.229	-39.080	-24.771	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	5.038	-39.133	-24.962	Pass
NVNT	ANT1	802.11b	2462.00	4924.120	5.466	-39.348	-24.534	Pass
NVNT	ANT1	802.11g	2412.00	4821.743	2.318	-44.992	-27.682	Pass
NVNT	ANT1	802.11g	2437.00	4871.683	-0.026	-49.440	-30.026	Pass
NVNT	ANT1	802.11g	2462.00	24955.054	0.605	-50.910	-29.395	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	4824.240	0.179	-49.762	-29.821	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	4876.677	0.279	-48.650	-29.721	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	4924.120	-0.145	-50.722	-30.145	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	1747.936	-7.590	-40.991	-37.590	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	1747.936	-7.170	-40.543	-37.170	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2502.030	-8.399	-51.725	-38.399	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Spurious_Emission_NVNT_ANT1_802_11b_2412

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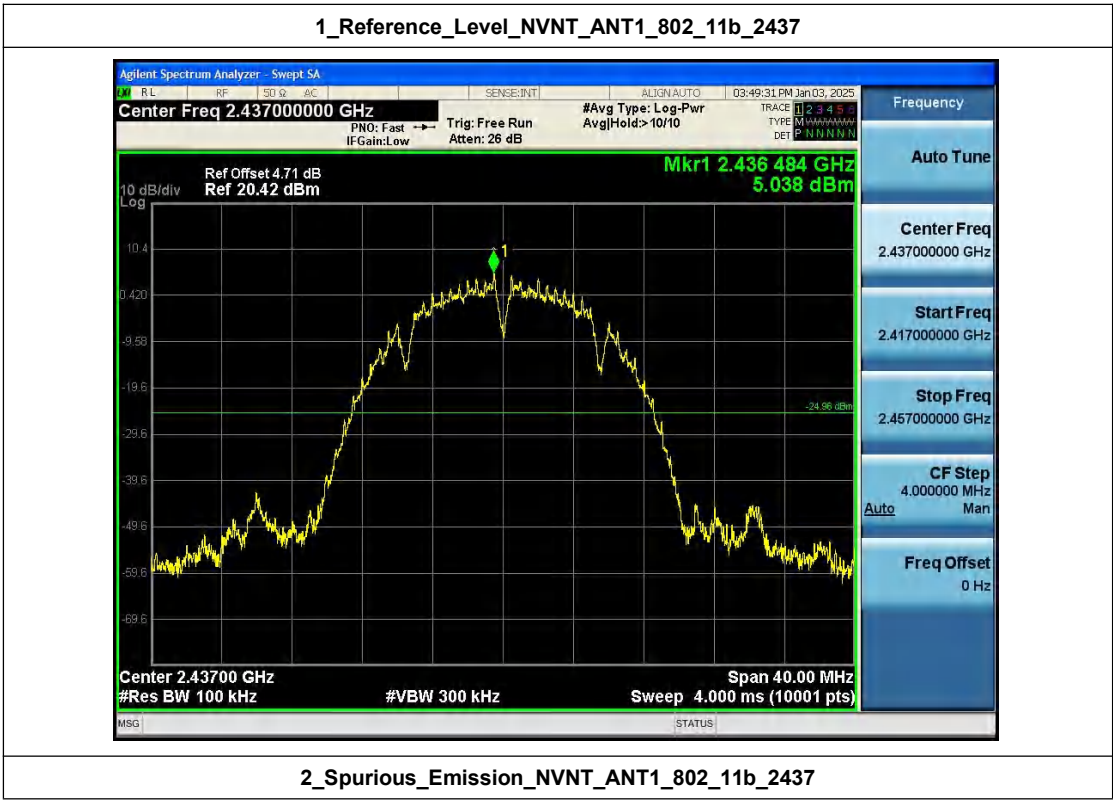
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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1_Reference_Level_NVNT_ANT1_802_11b_2437

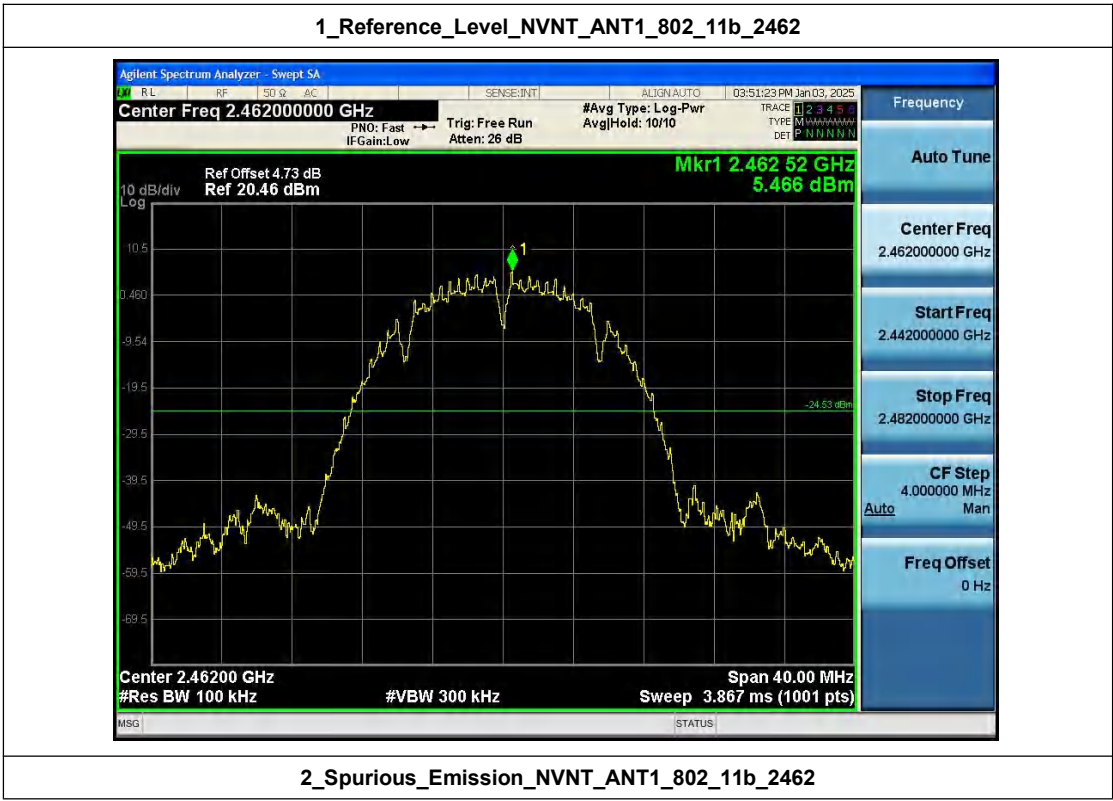


2_Spurious_Emission_NVNT_ANT1_802_11b_2437





1_Reference_Level_NVNT_ANT1_802_11b_2462

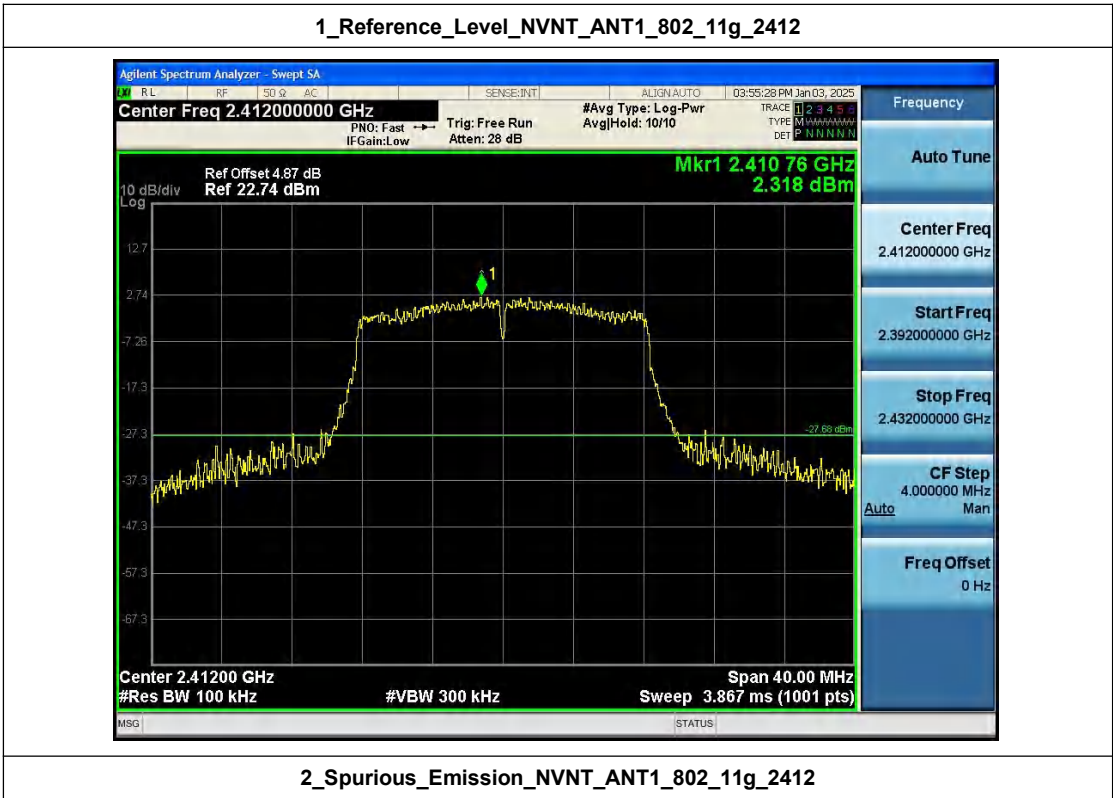


2_Spurious_Emission_NVNT_ANT1_802_11b_2462





1_Reference_Level_NVNT_ANT1_802_11g_2412

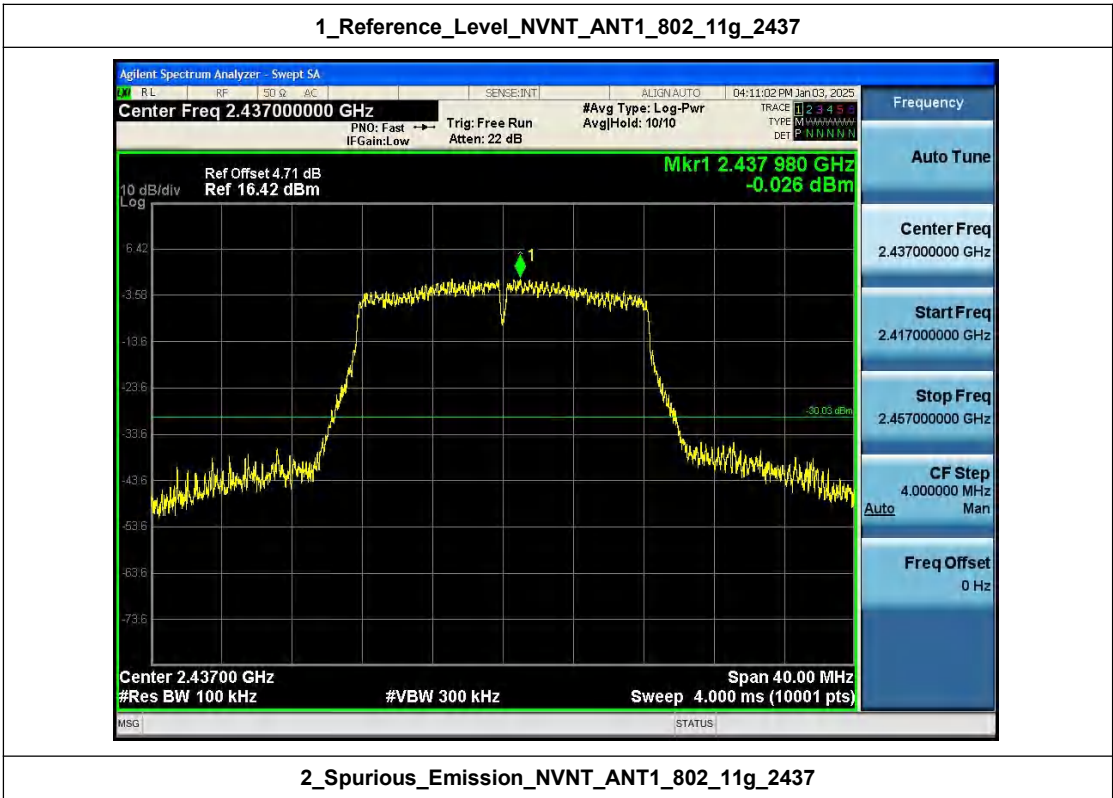


2_Spurious_Emission_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2437

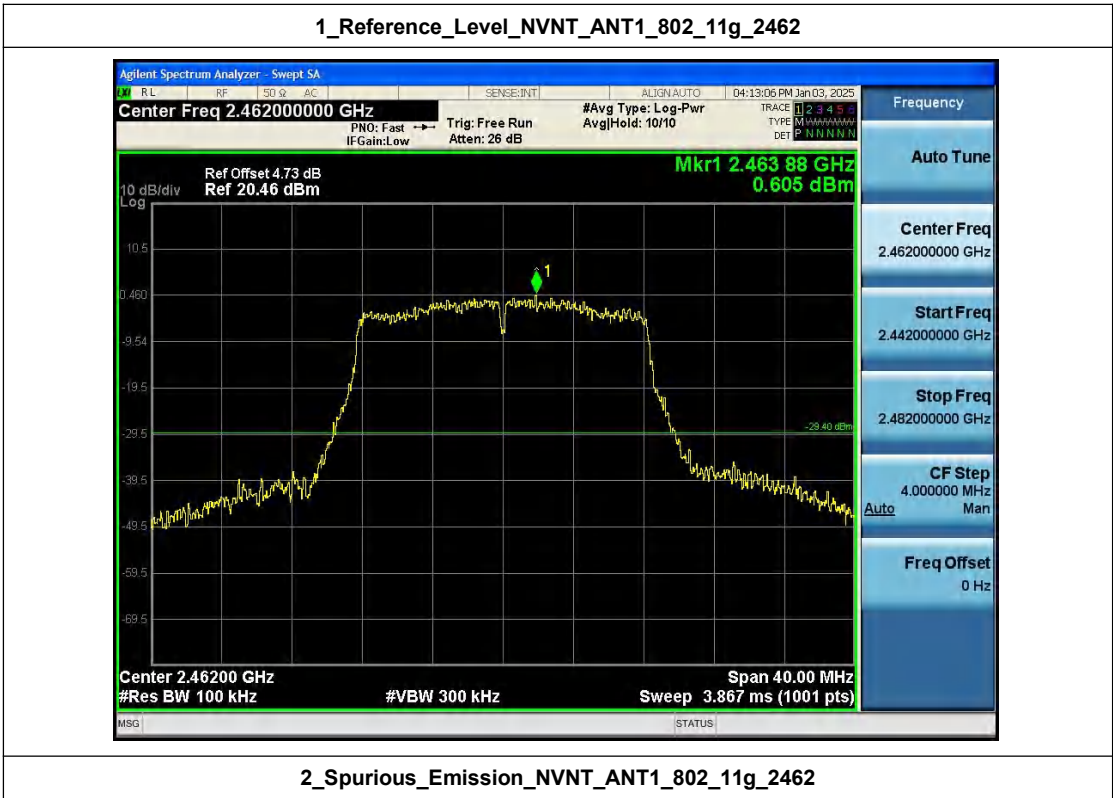


2_Spurious_Emission_NVNT_ANT1_802_11g_2437





1_Reference_Level_NVNT_ANT1_802_11g_2462

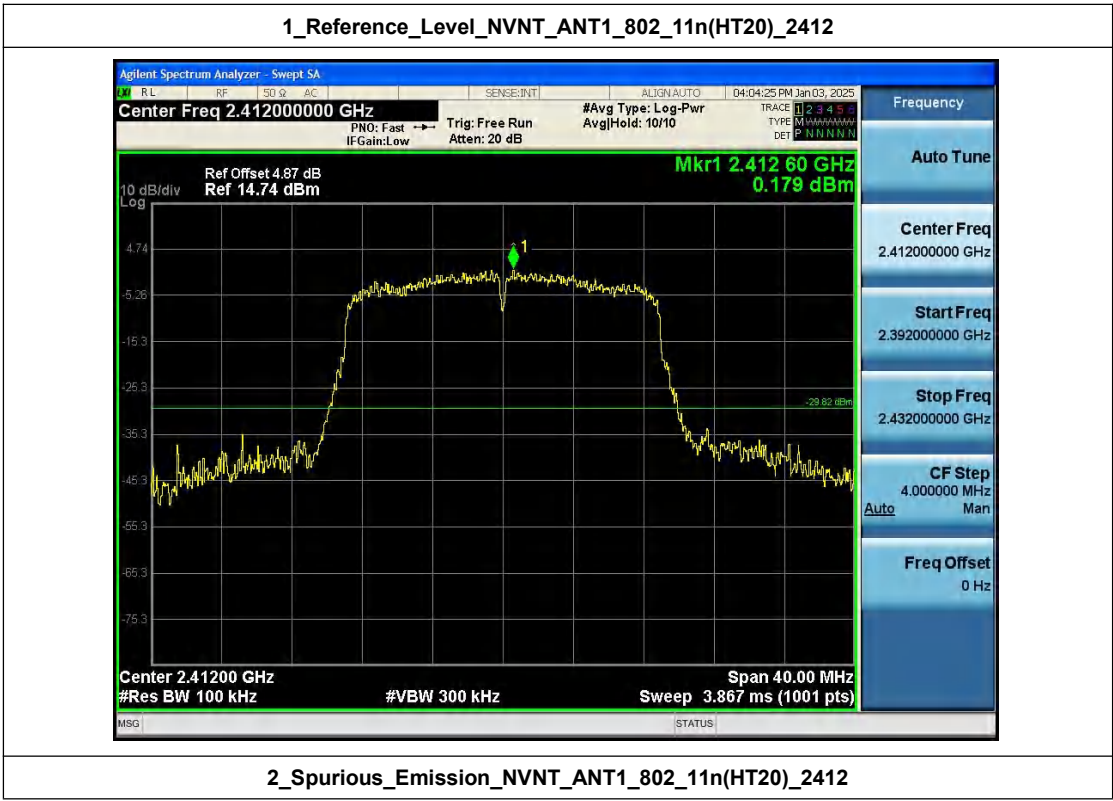


2_Spurious_Emission_NVNT_ANT1_802_11g_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

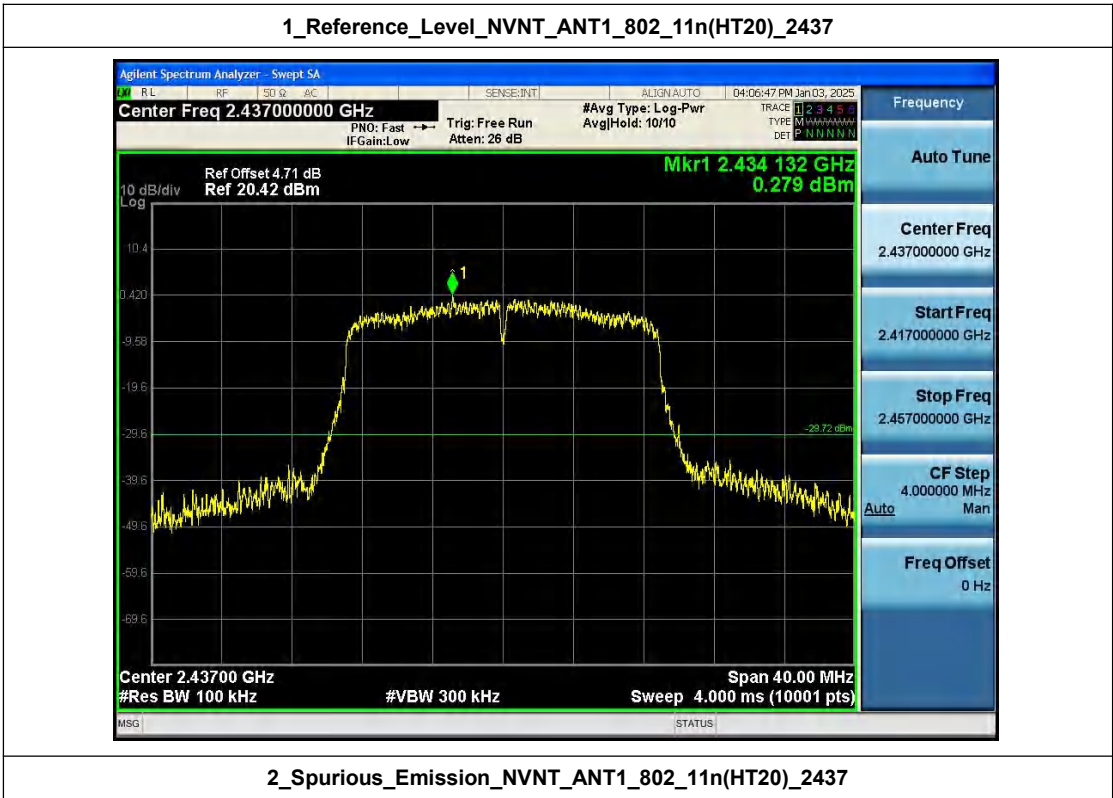


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437

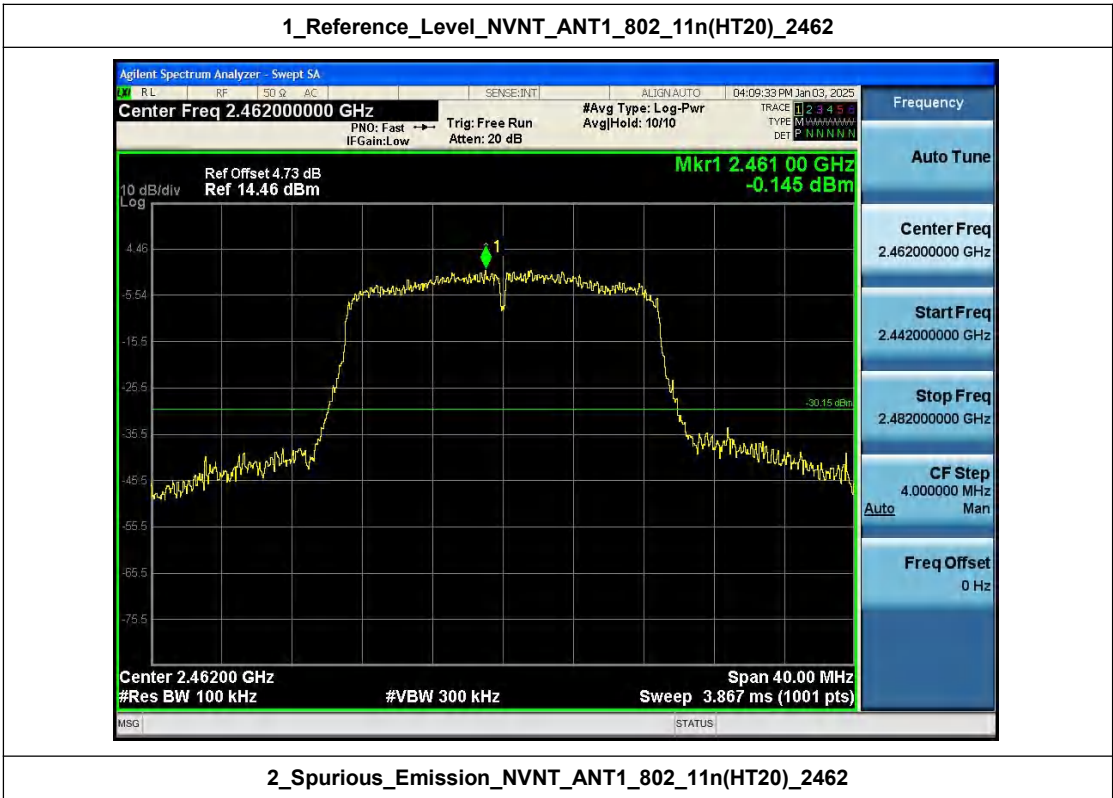


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

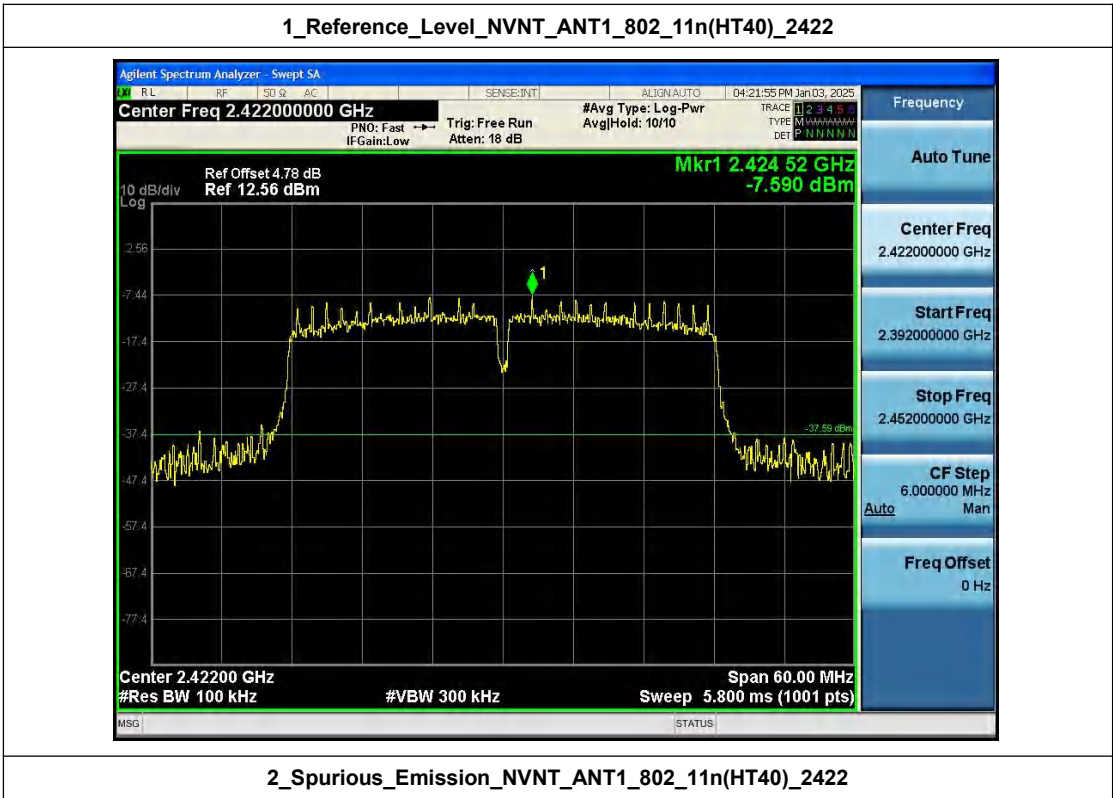


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

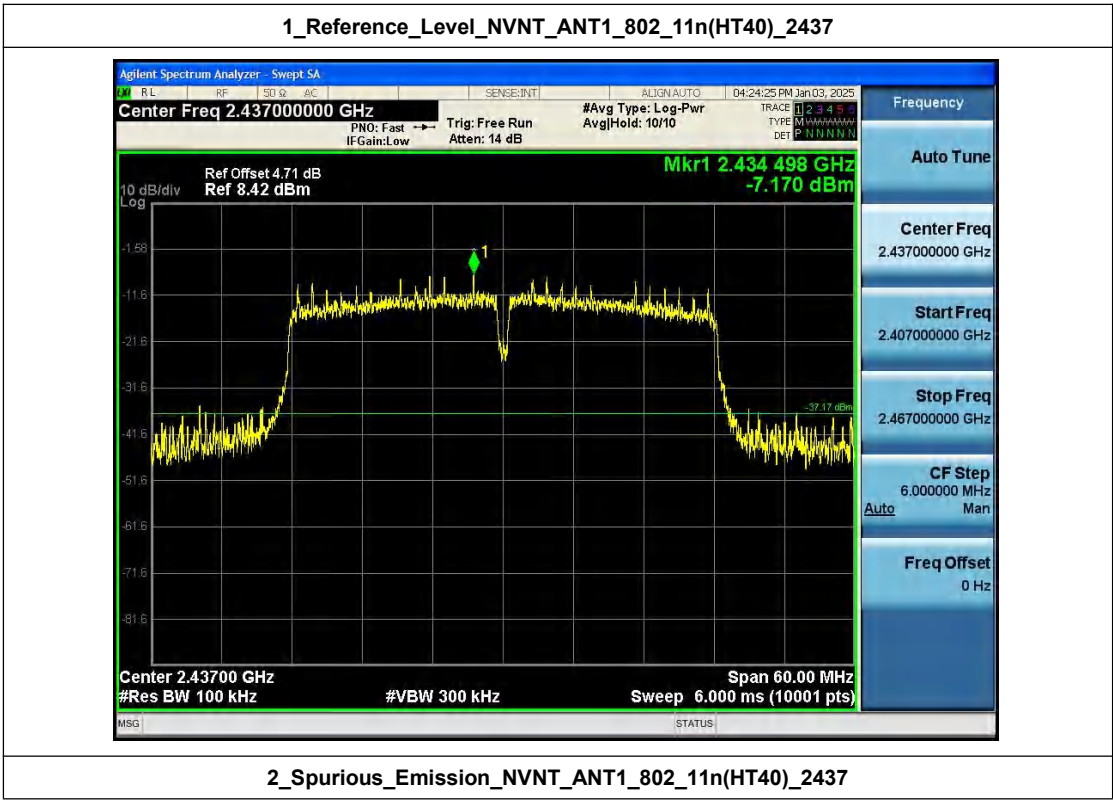


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437

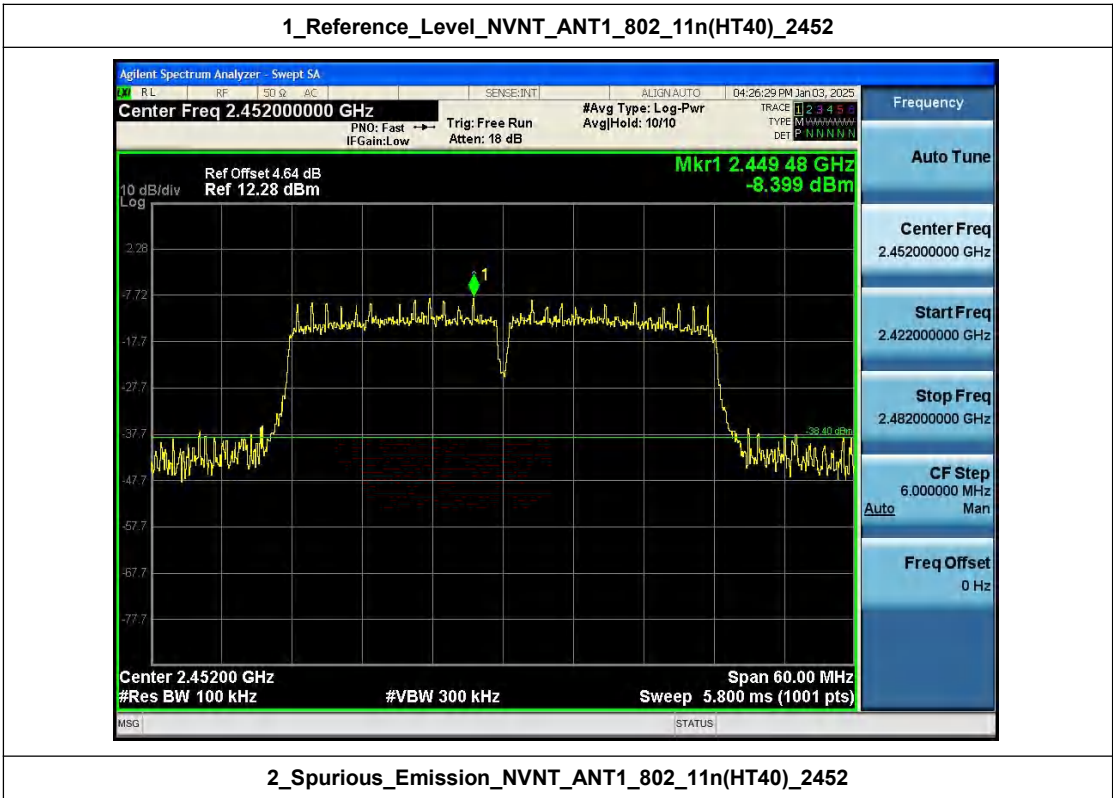


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452





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