

Appendix Test Data

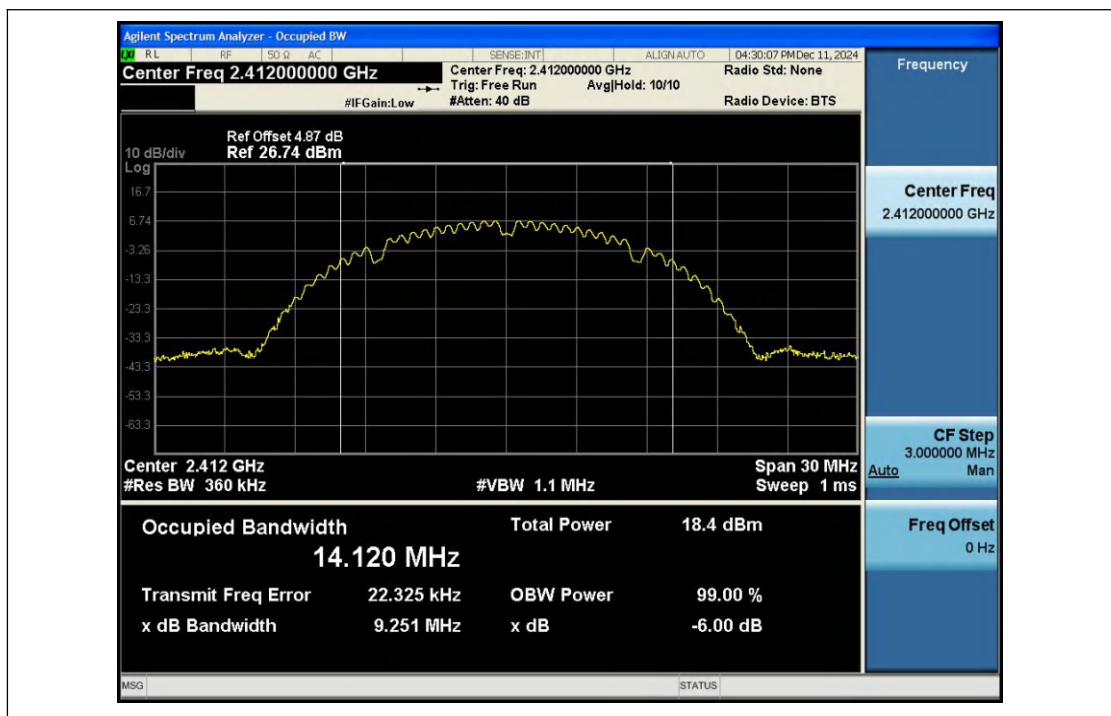
Report No.:	1812C40059112502	Test Sample No.:	1-2-2
Start Test Date:	2024.9.11	Finish Test Date:	2024.12.11
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.5℃	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

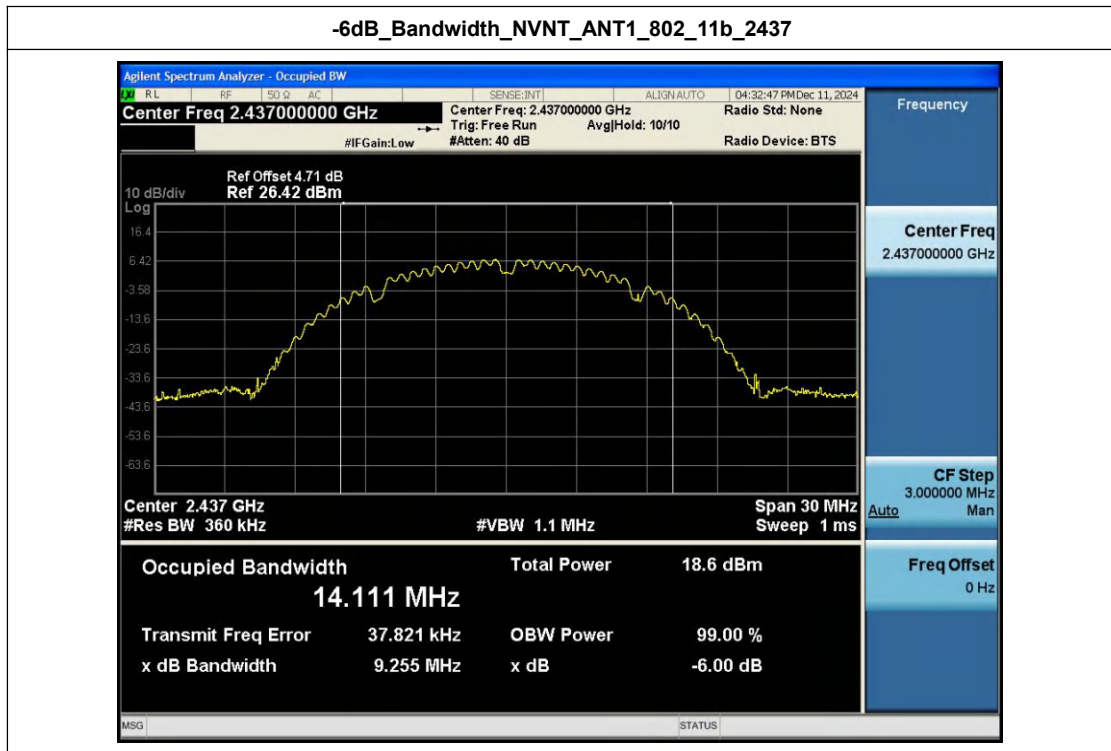
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.25	500	Pass
NVNT	ANT1	802.11b	2437.00	9.26	500	Pass
NVNT	ANT1	802.11b	2462.00	9.25	500	Pass
NVNT	ANT1	802.11g	2412.00	16.47	500	Pass
NVNT	ANT1	802.11g	2437.00	16.46	500	Pass
NVNT	ANT1	802.11g	2462.00	16.54	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.74	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.77	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.74	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



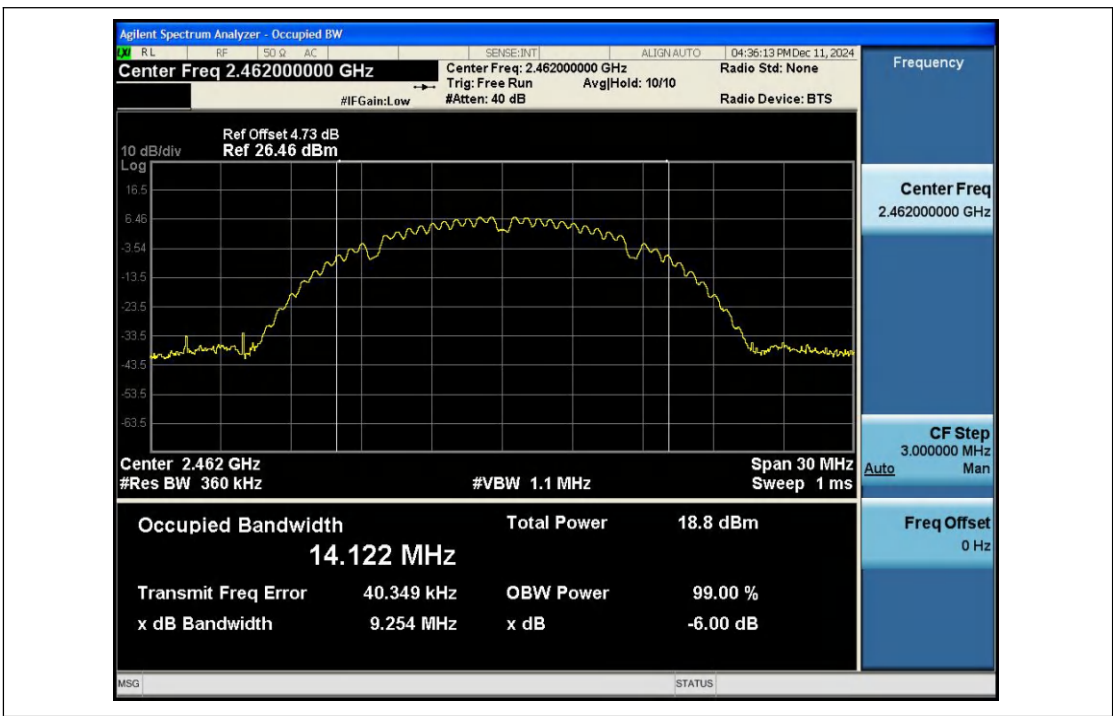


-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

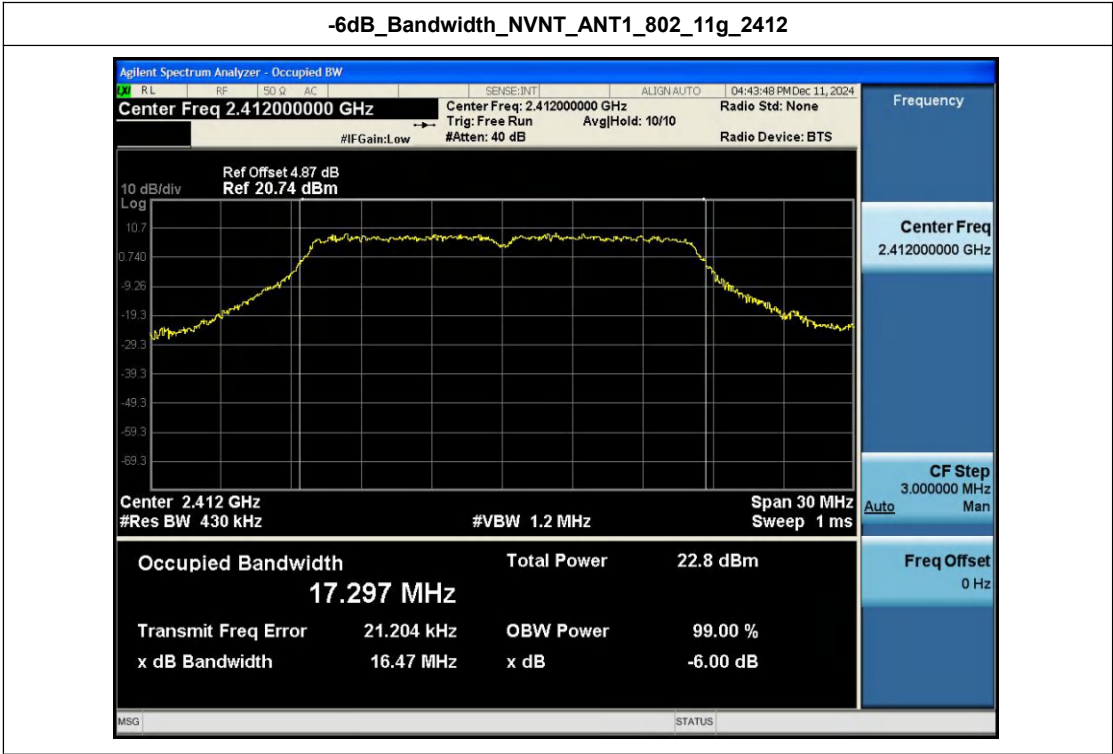


-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



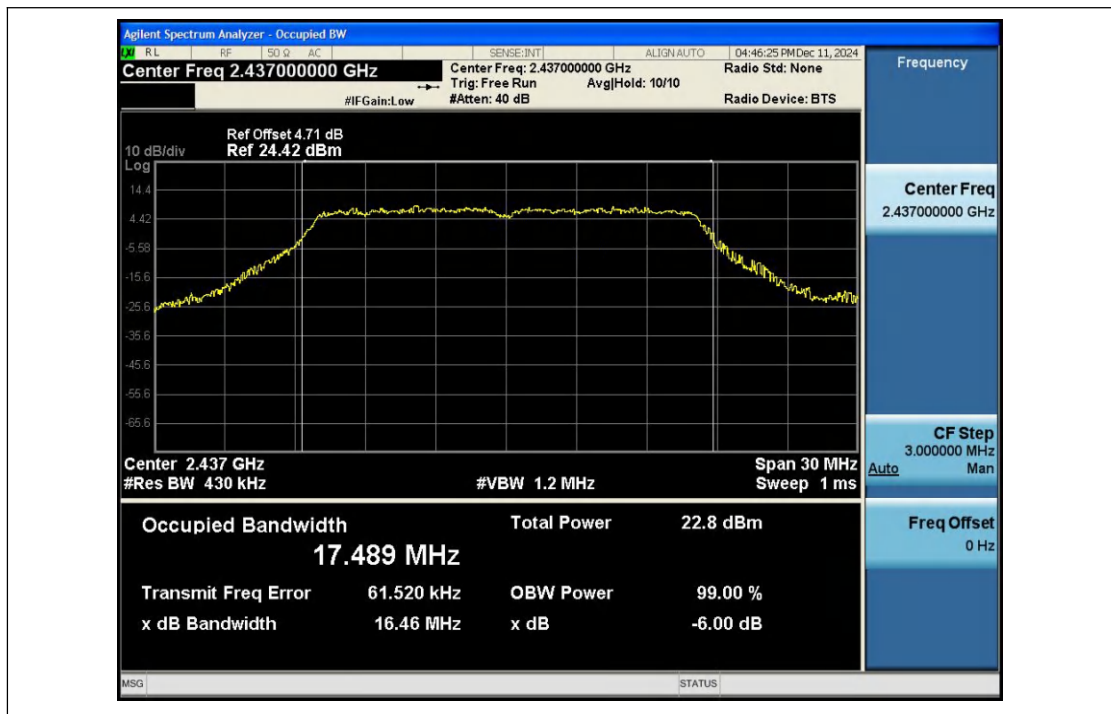


-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

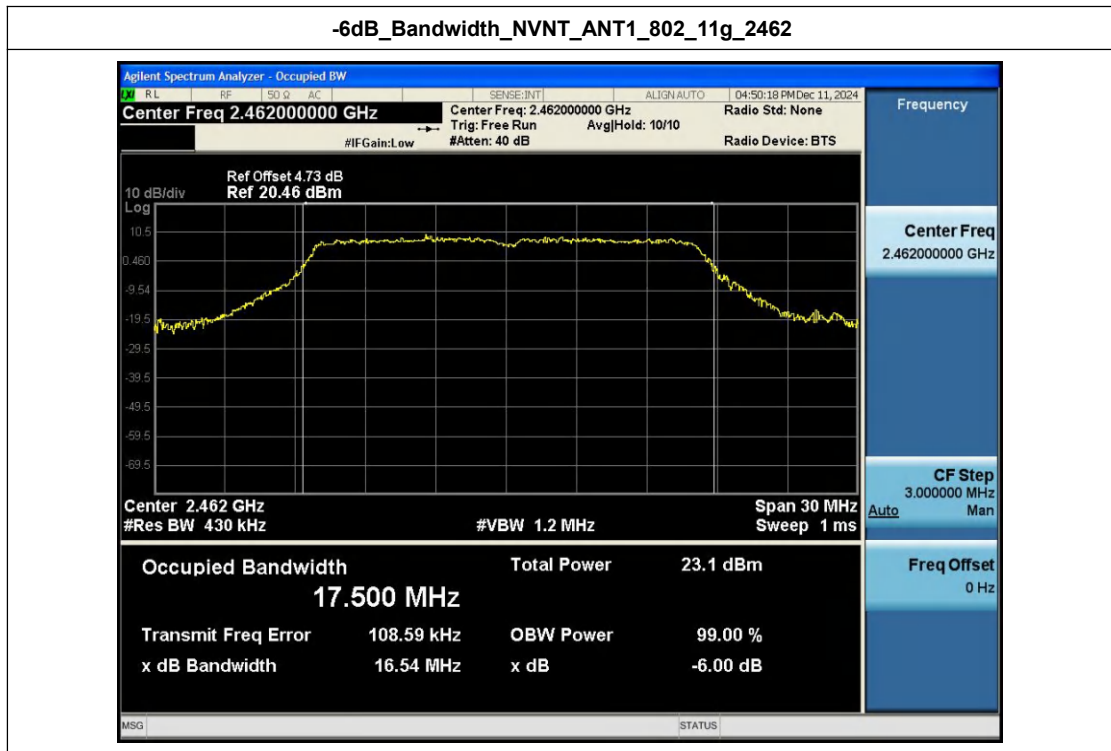


-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



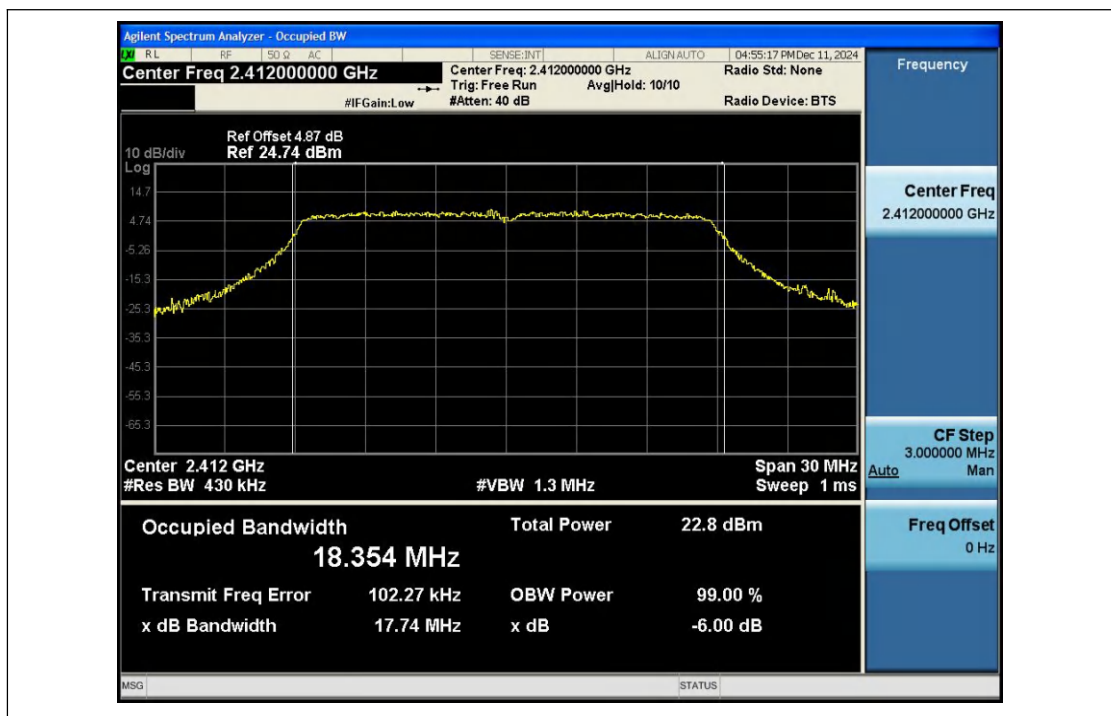


-6dB_Bandwidth_NVNT_ANT1_802_11g_2462

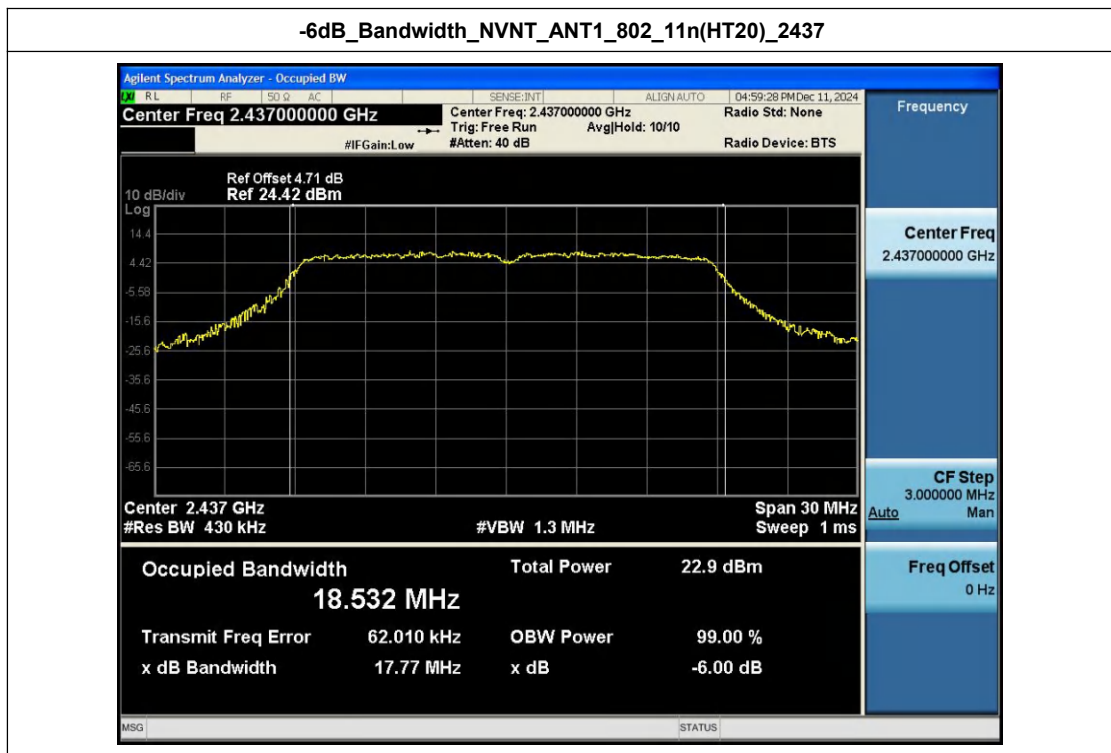


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



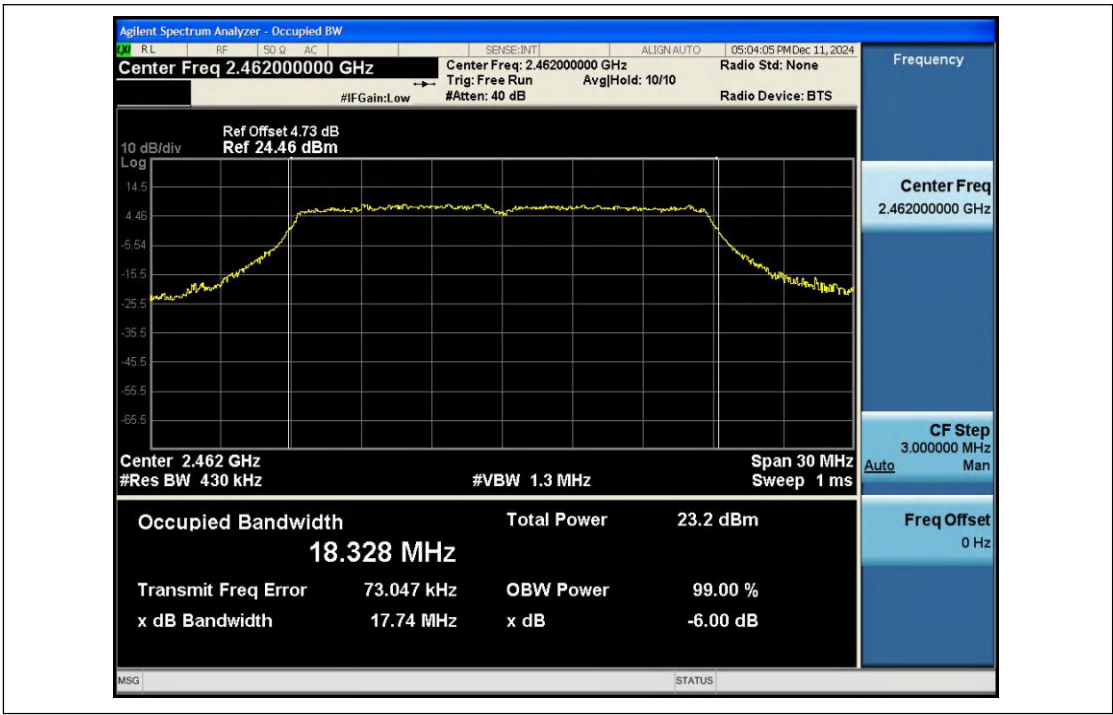


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





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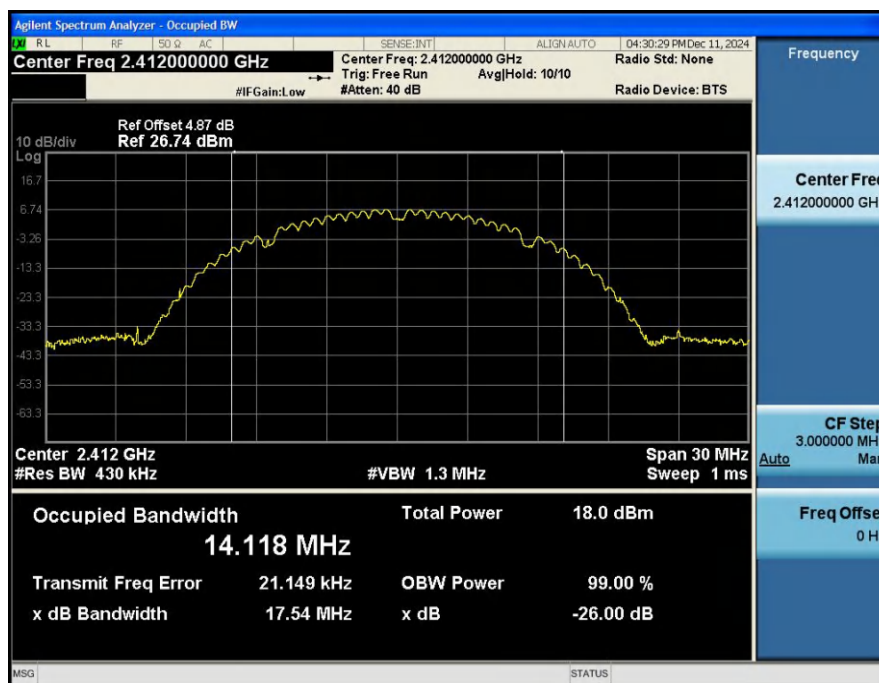
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Appendix B: 99% Occupied Bandwidth

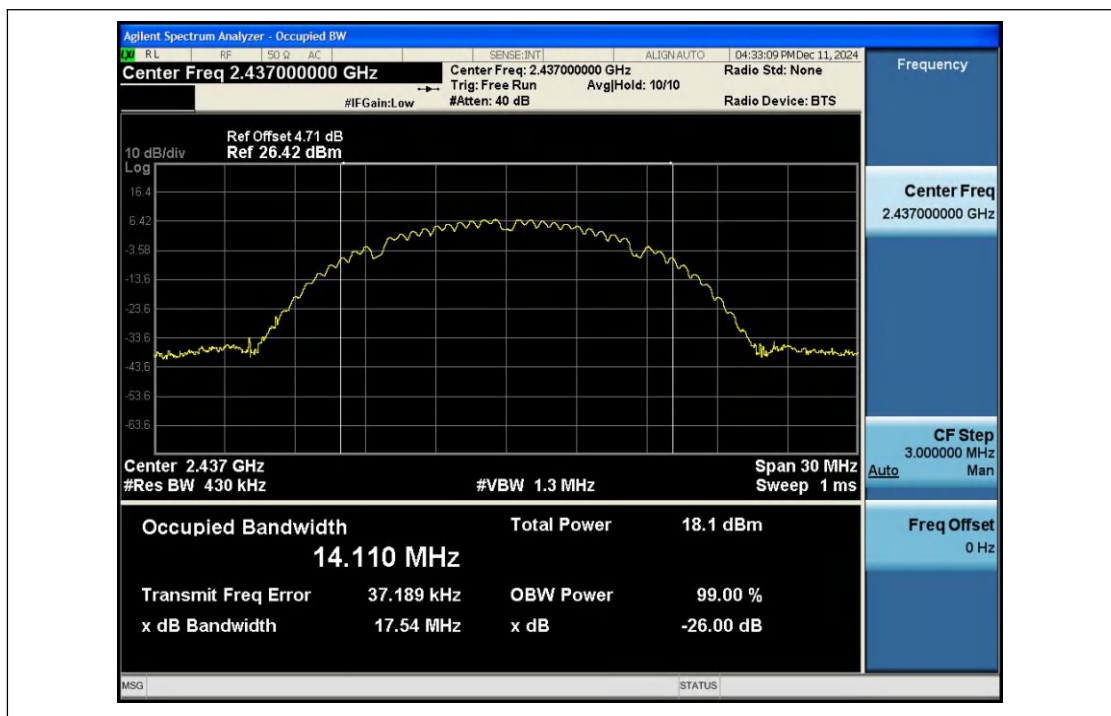
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.118
NVNT	ANT1	802.11b	2437.00	14.110
NVNT	ANT1	802.11b	2462.00	14.123
NVNT	ANT1	802.11g	2412.00	17.577
NVNT	ANT1	802.11g	2437.00	17.798
NVNT	ANT1	802.11g	2462.00	17.678
NVNT	ANT1	802.11n(HT20)	2412.00	18.629
NVNT	ANT1	802.11n(HT20)	2437.00	18.826
NVNT	ANT1	802.11n(HT20)	2462.00	18.528

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

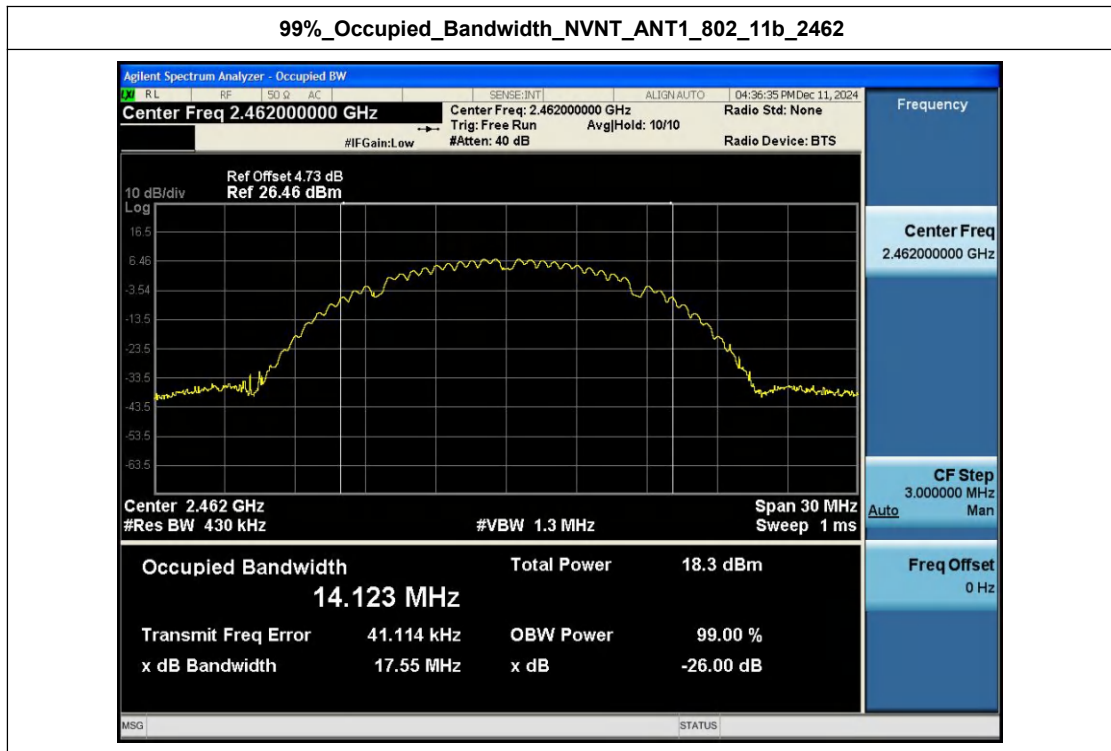


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



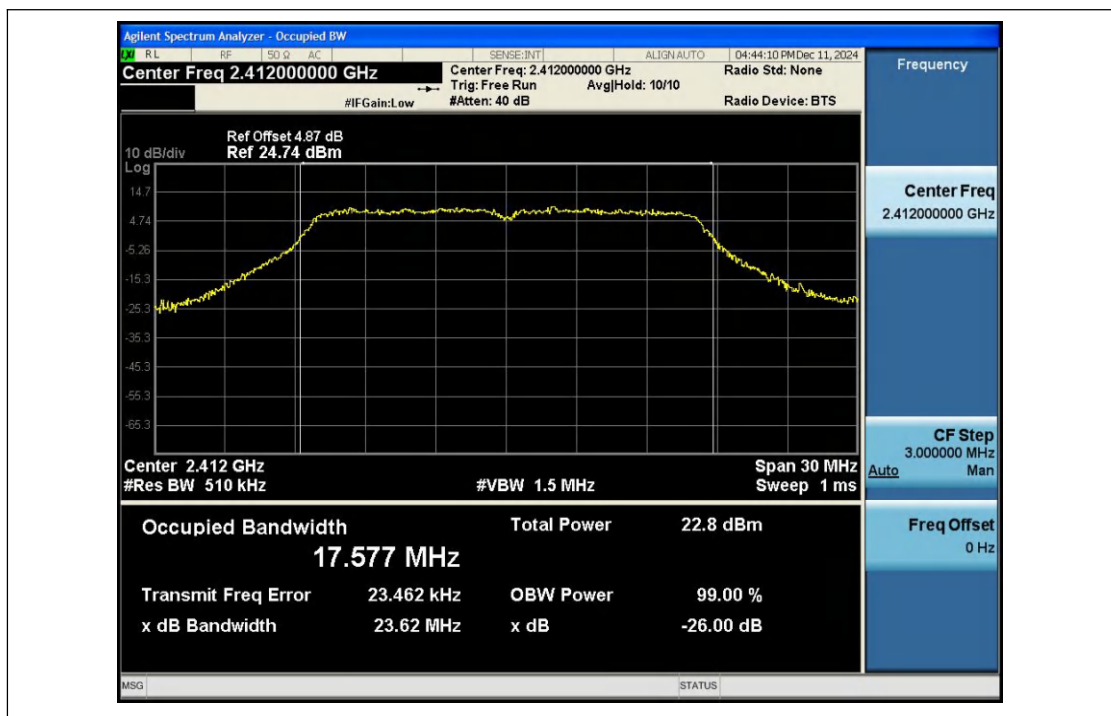


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462

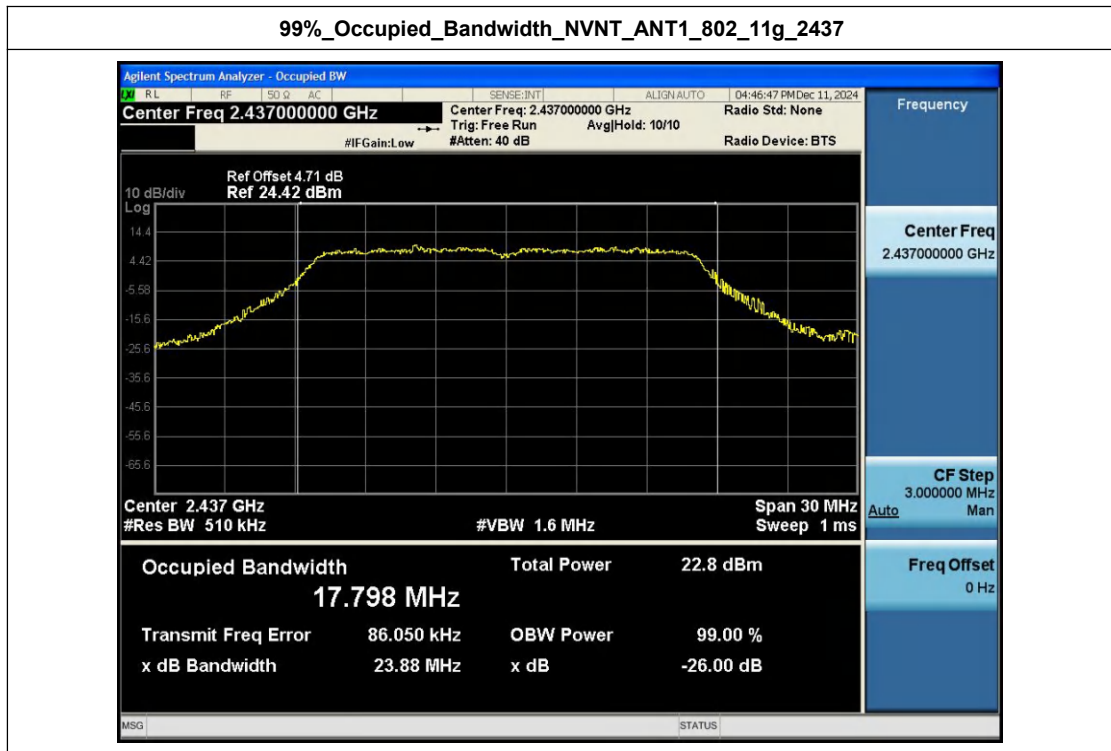


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



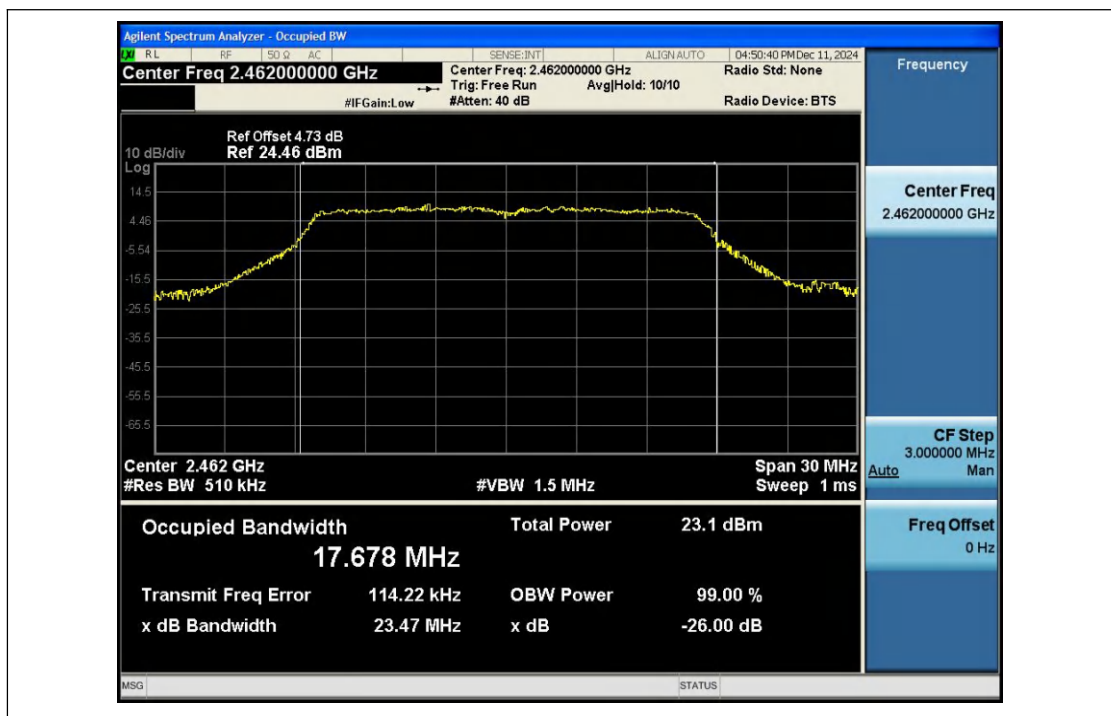


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437

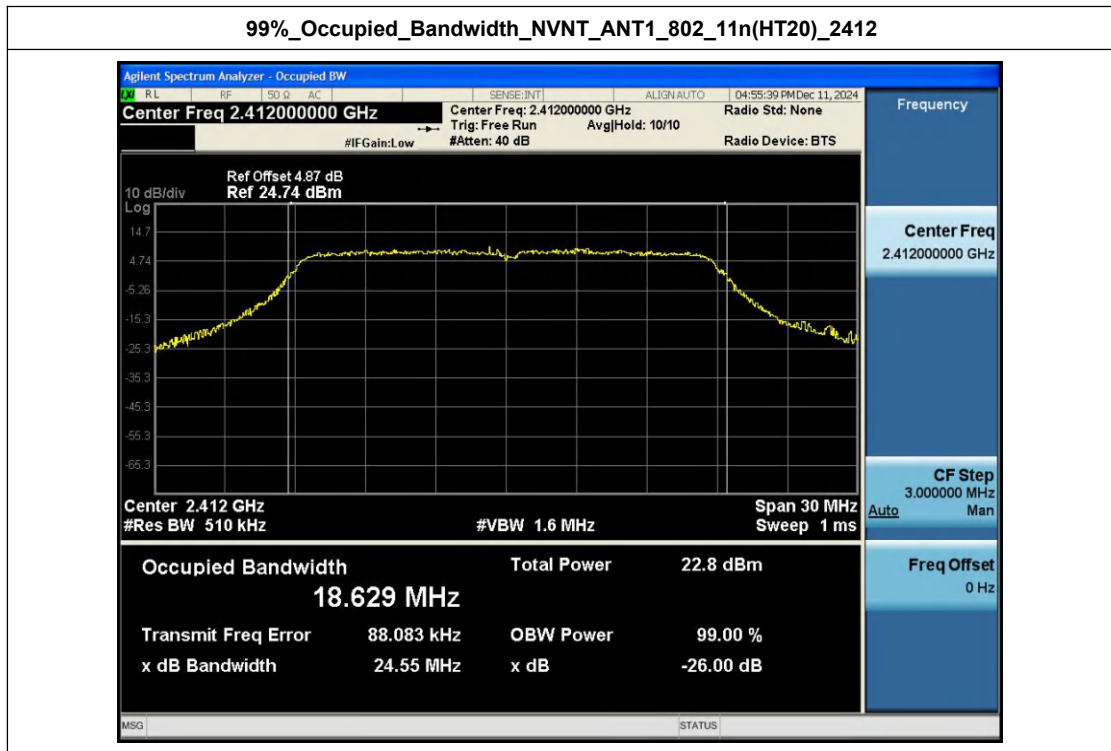


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



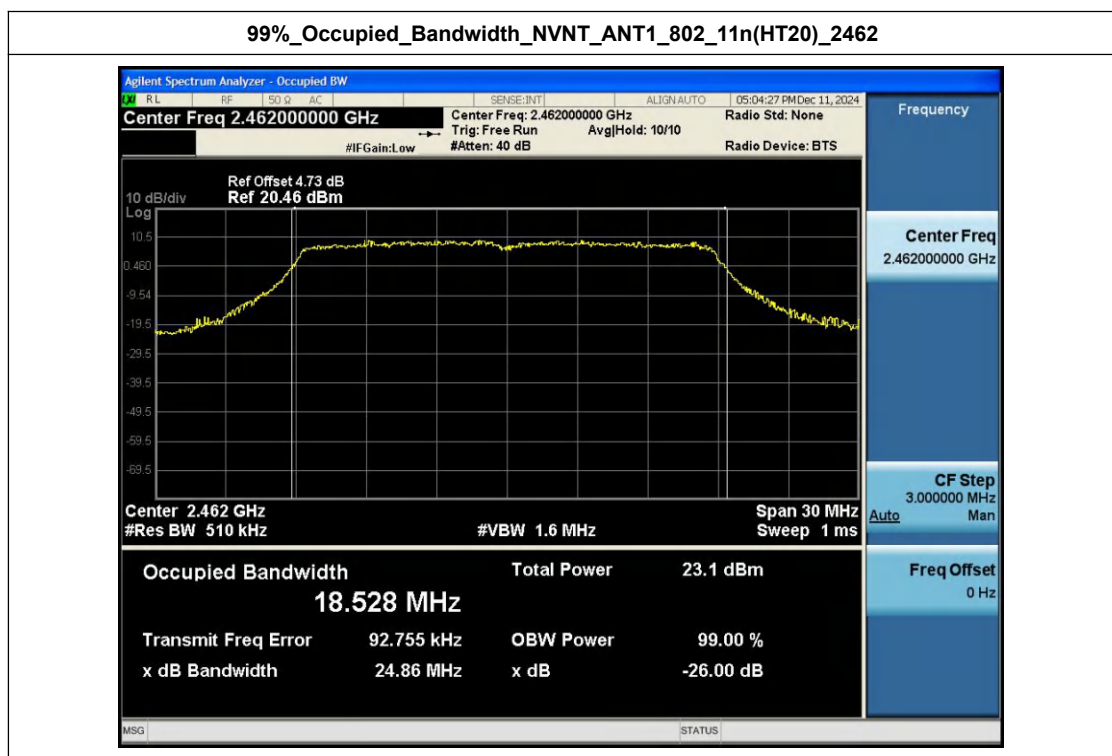
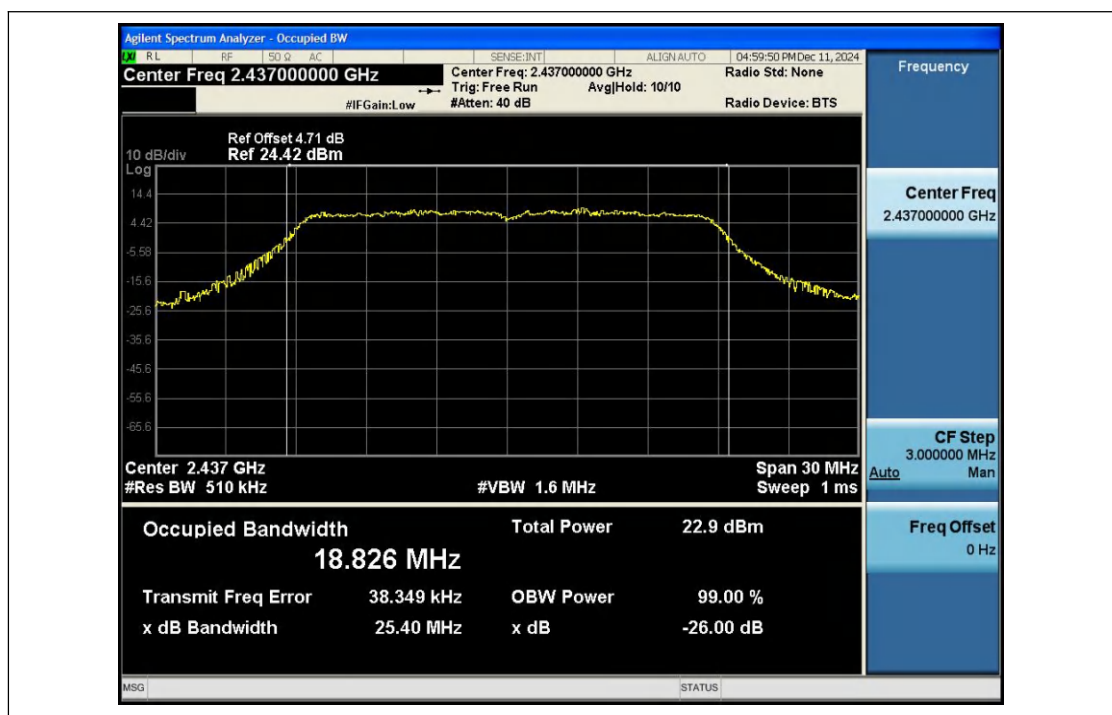


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

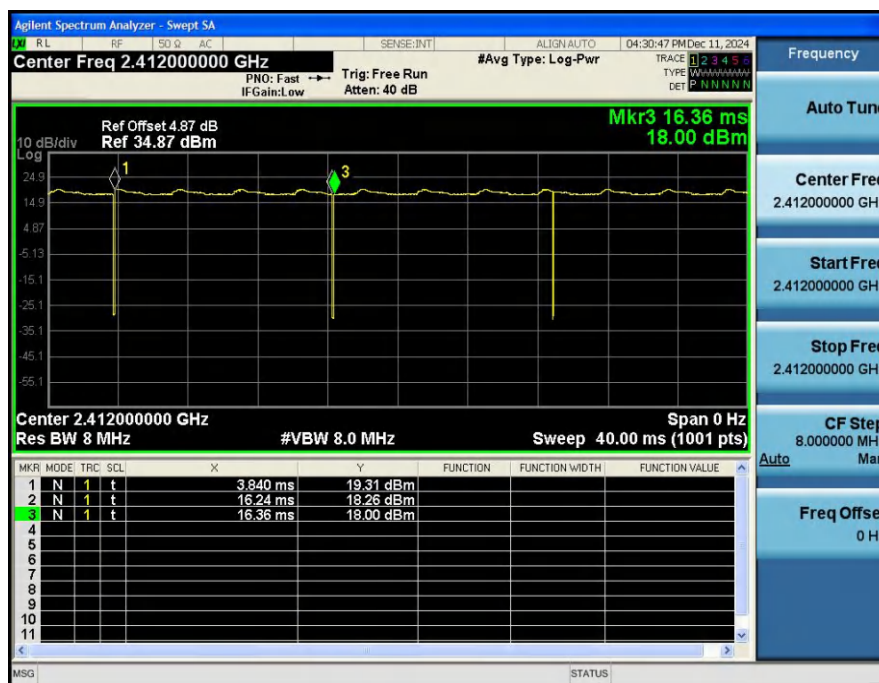




Appendix C: Duty Cycle

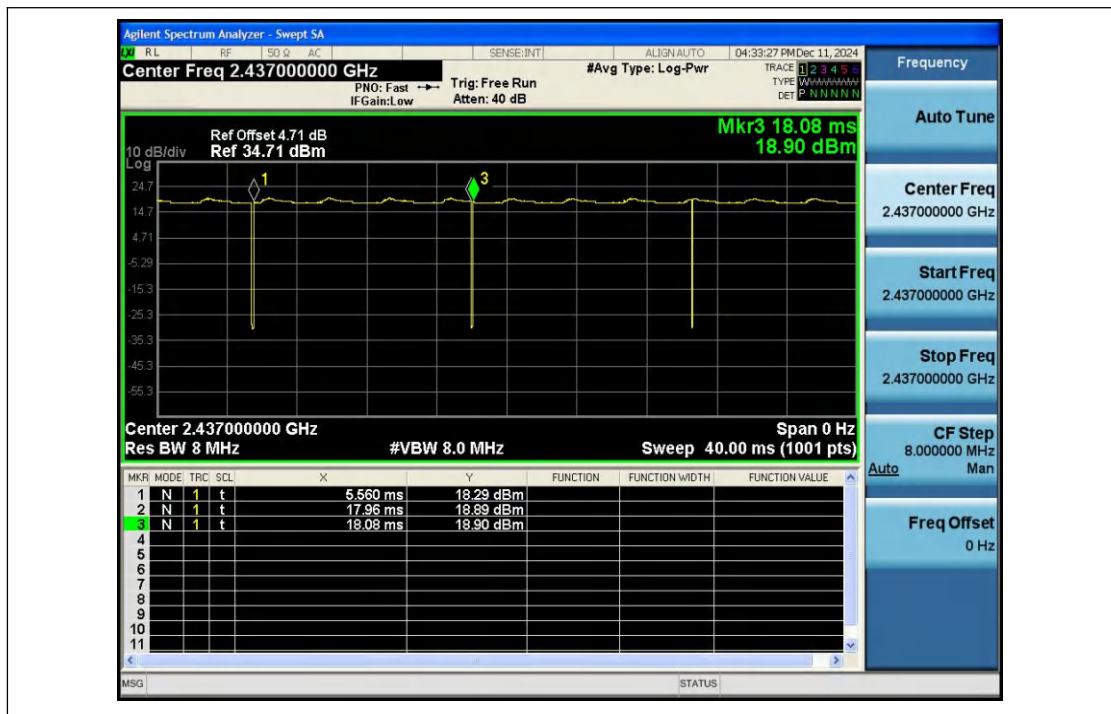
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.36	0.00
NVNT	ANT1	802.11b	2437.00	99.36	0.00
NVNT	ANT1	802.11b	2462.00	99.36	0.00
NVNT	ANT1	802.11g	2412.00	94.55	0.24
NVNT	ANT1	802.11g	2437.00	96.36	0.16
NVNT	ANT1	802.11g	2462.00	96.36	0.16
NVNT	ANT1	802.11n(HT20)	2412.00	94.23	0.26
NVNT	ANT1	802.11n(HT20)	2437.00	96.08	0.17
NVNT	ANT1	802.11n(HT20)	2462.00	96.08	0.17

Duty_Cycle_NVNT_ANT1_802_11b_2412

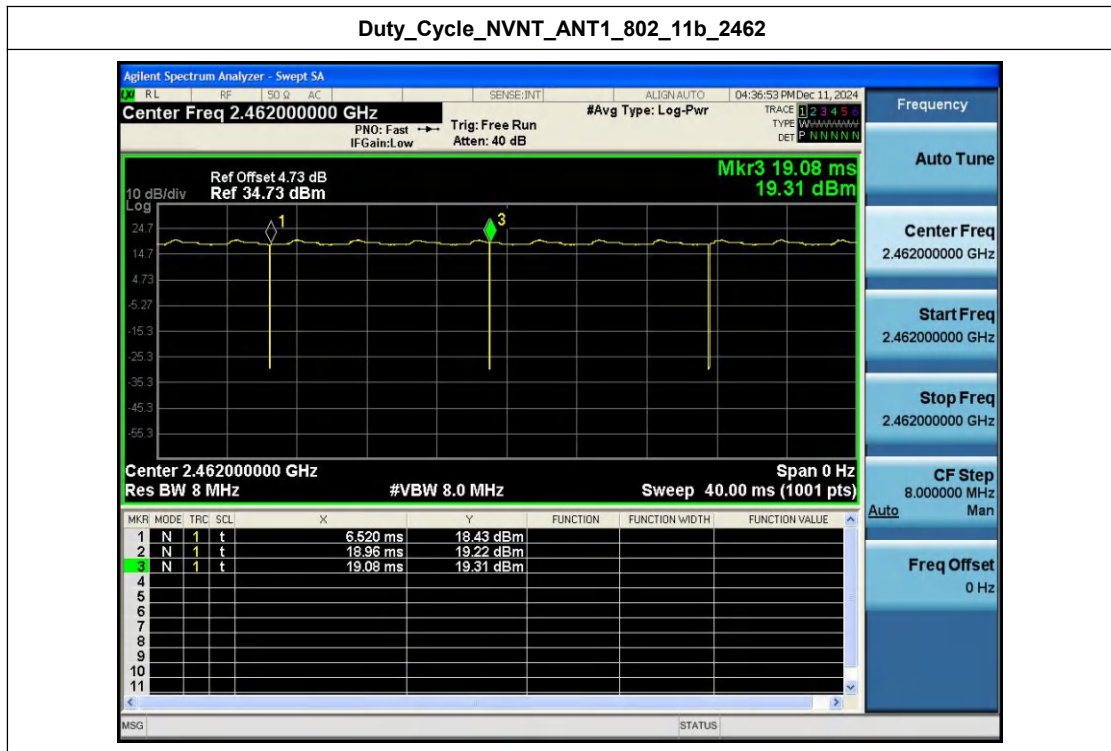


Duty_Cycle_NVNT_ANT1_802_11b_2437



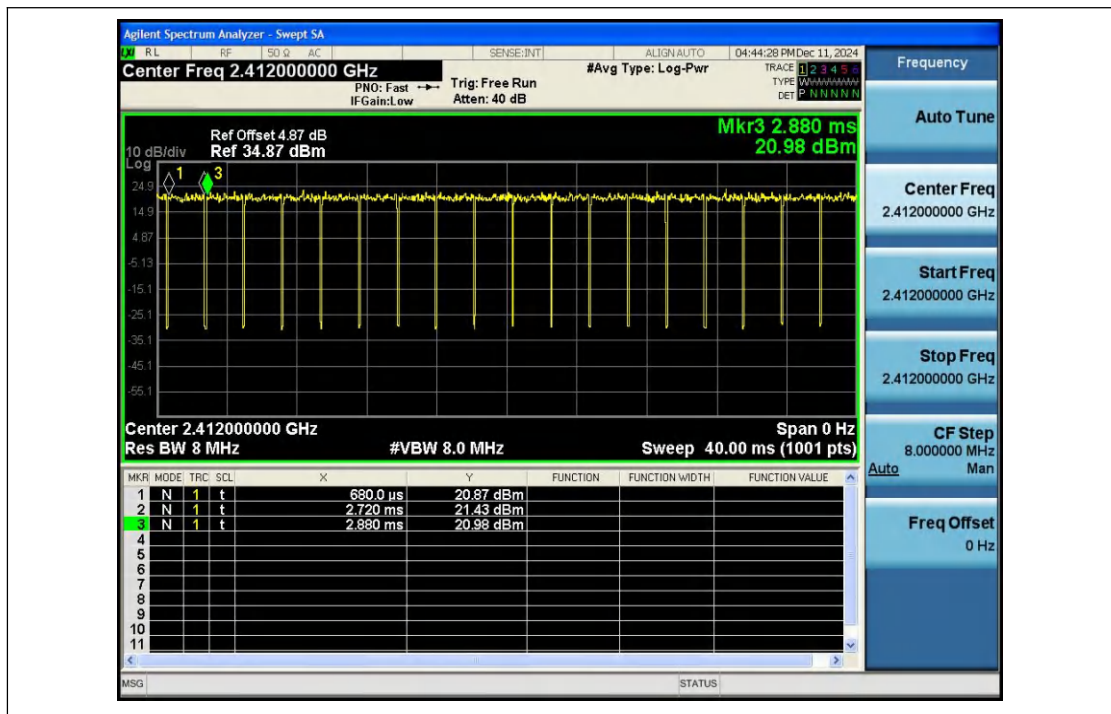


Duty_Cycle_NVNT_ANT1_802_11b_2462

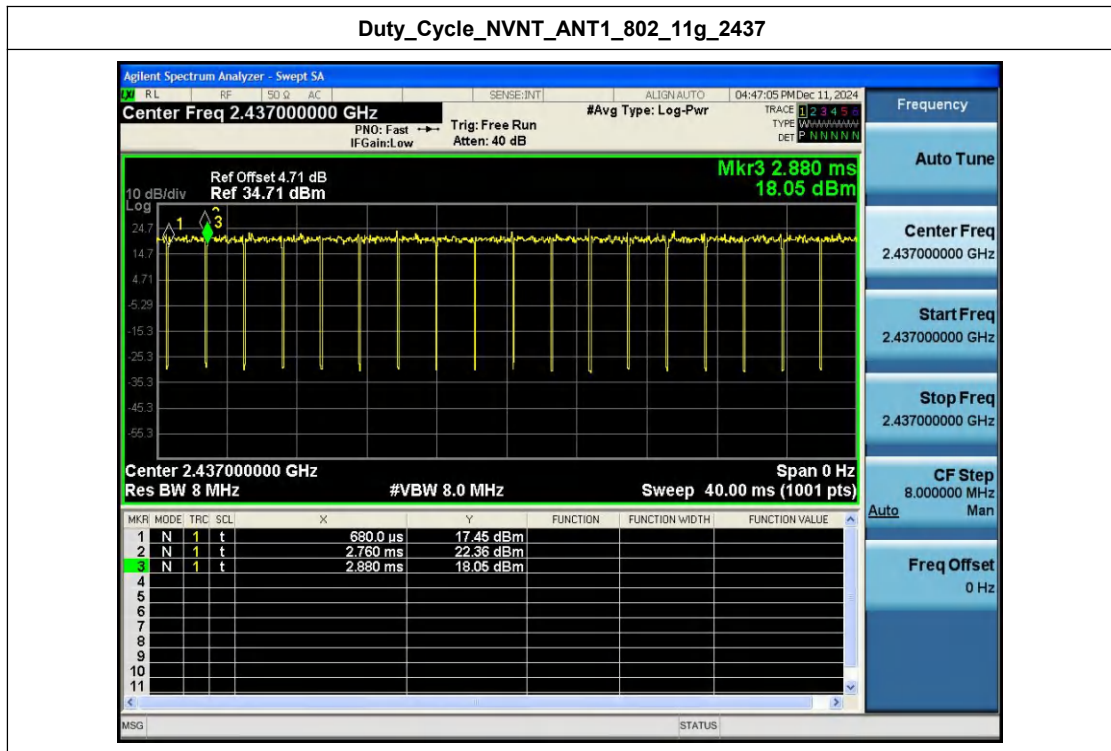


Duty_Cycle_NVNT_ANT1_802_11g_2412



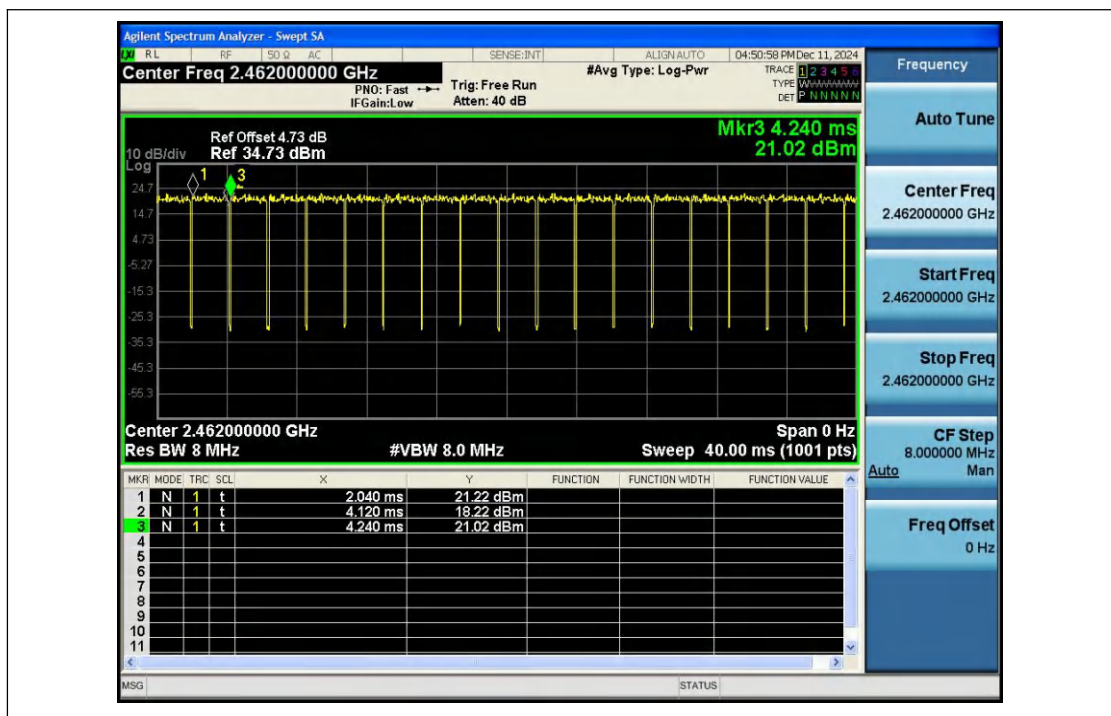


Duty_Cycle_NVNT_ANT1_802_11g_2437

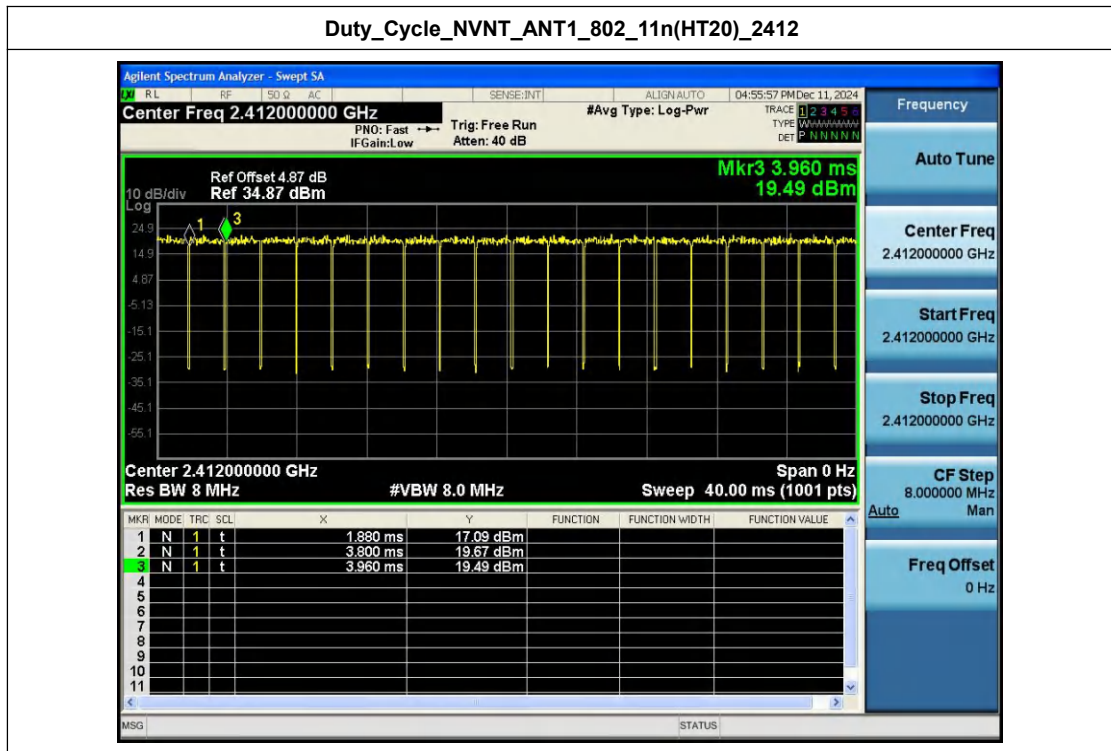


Duty_Cycle_NVNT_ANT1_802_11g_2462



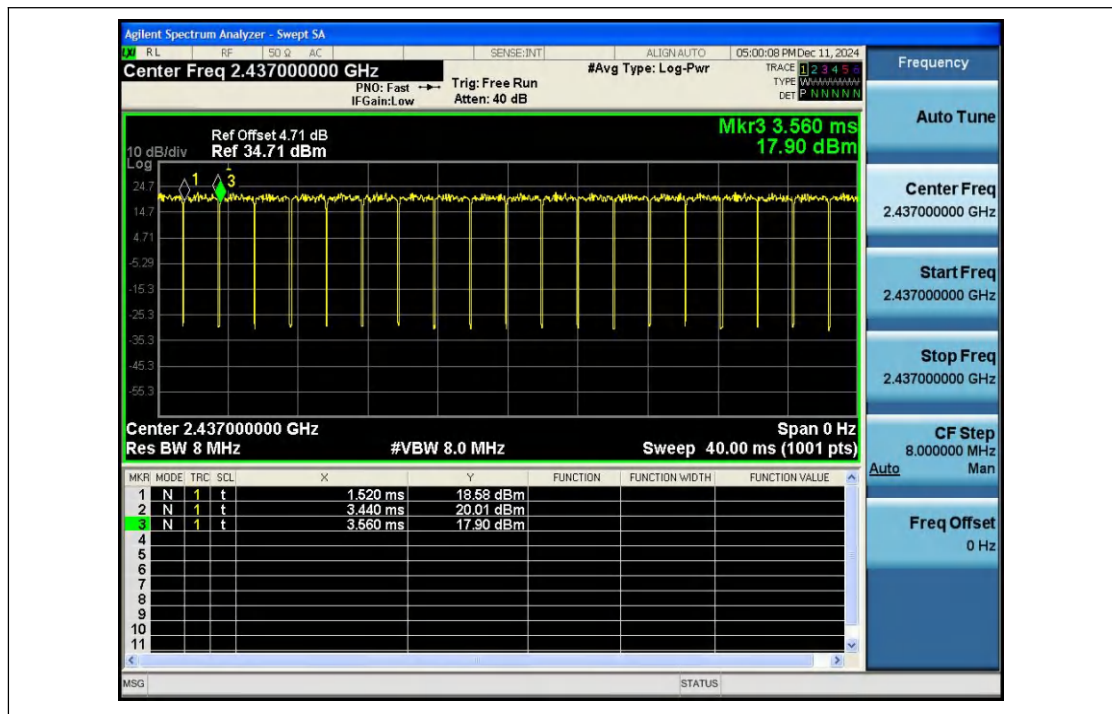


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412

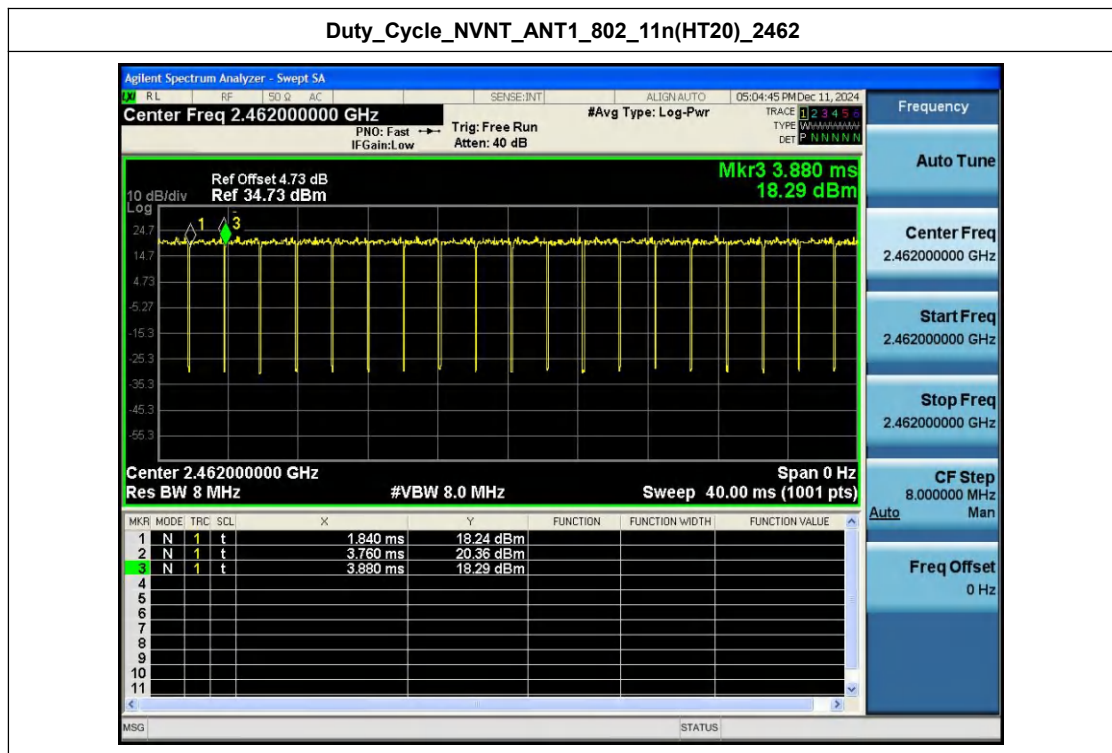


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437





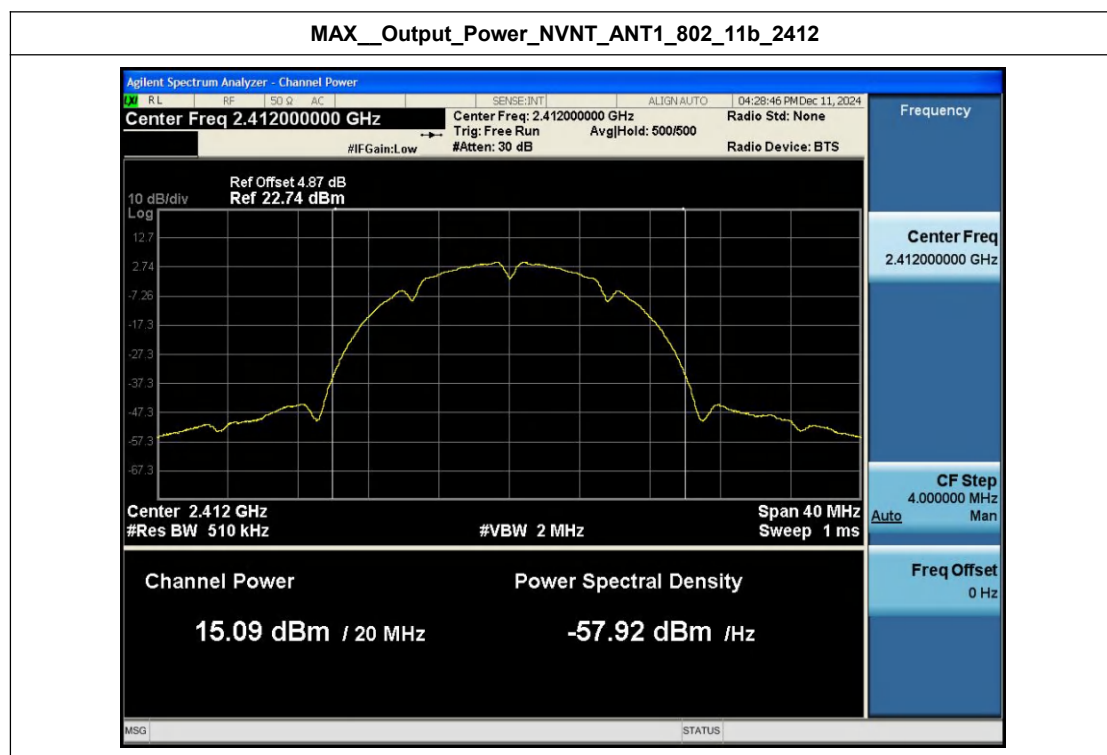
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



Appendix D: MAX. Output Power

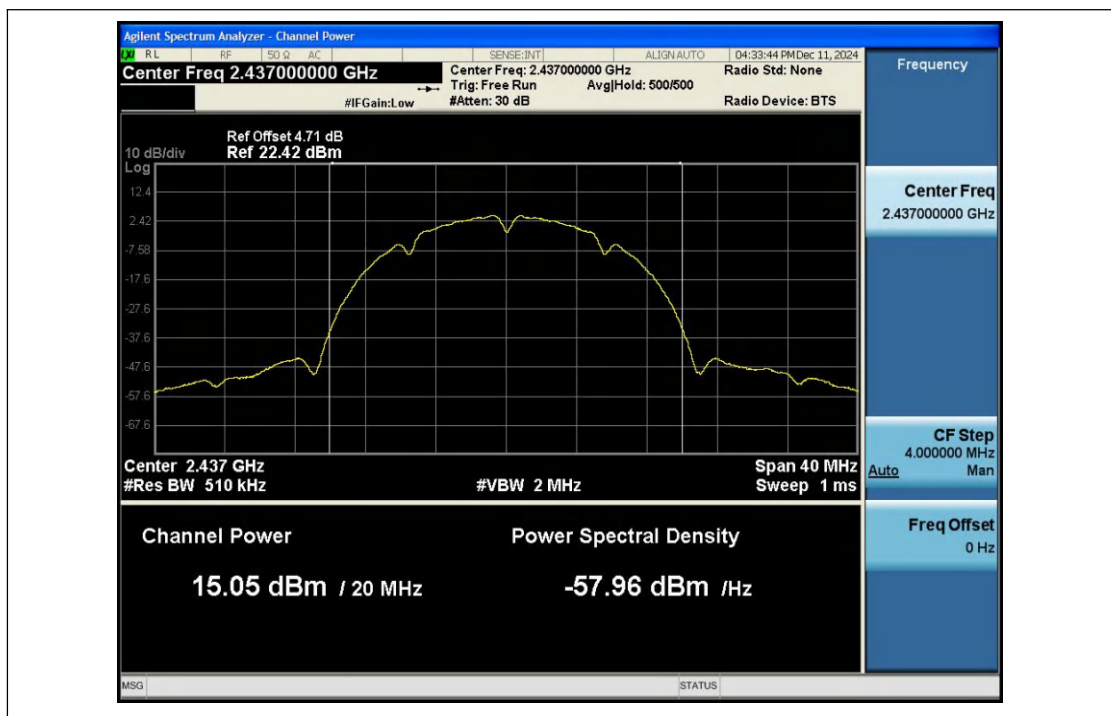
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	15.09	0.00	15.09	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	15.05	0.00	15.05	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	15.36	0.00	15.36	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	15.68	0.24	15.92	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	15.66	0.16	15.82	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	15.97	0.16	16.13	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	15.58	0.26	15.84	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	15.59	0.17	15.76	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	15.90	0.17	16.07	30	Pass

Note: The cable loss are compensated in the graph.

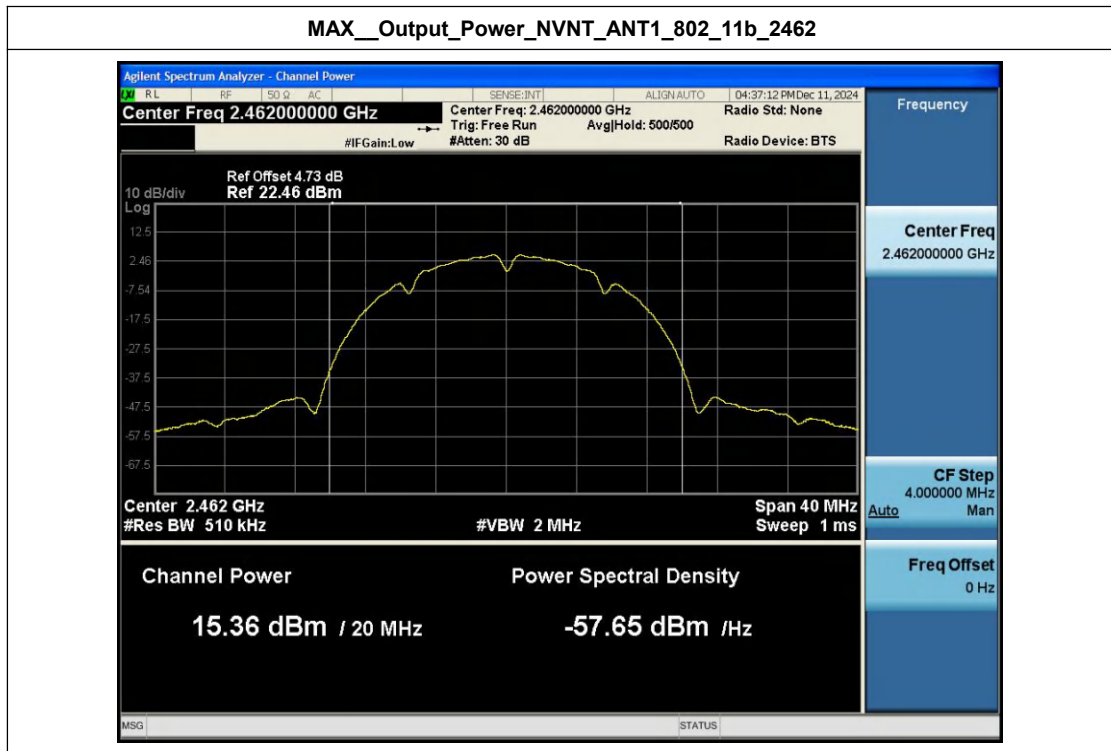


MAX__Output_Power_NVNT_ANT1_802_11b_2437



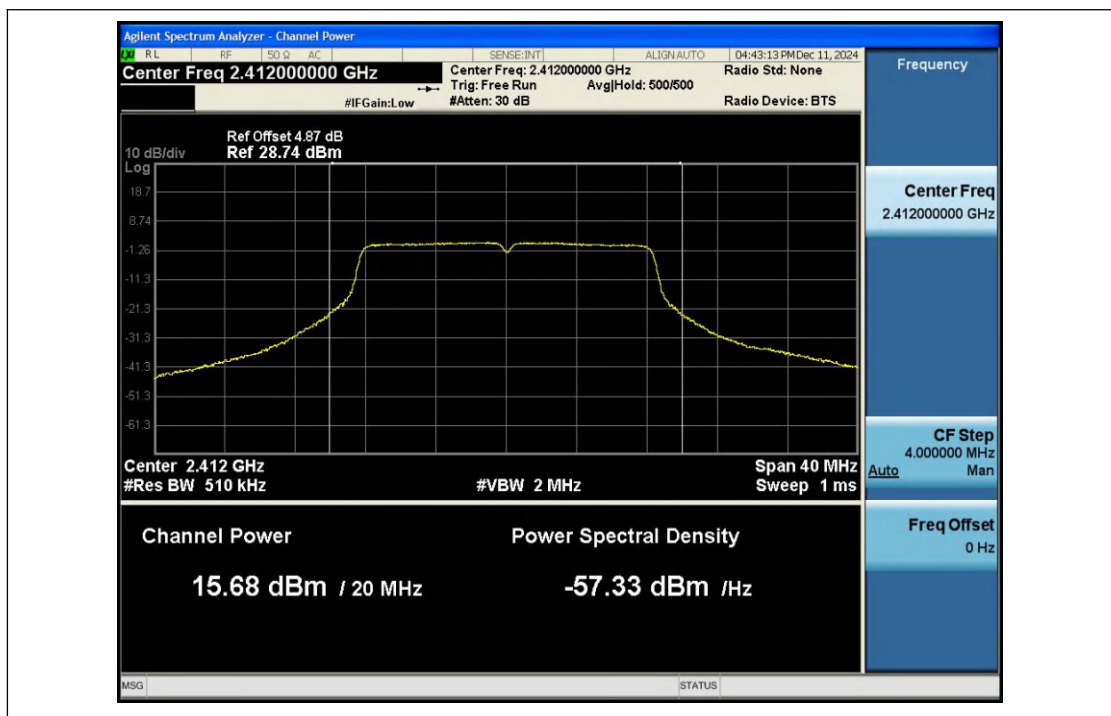


MAX__Output_Power_NVNT_ANT1_802_11b_2462

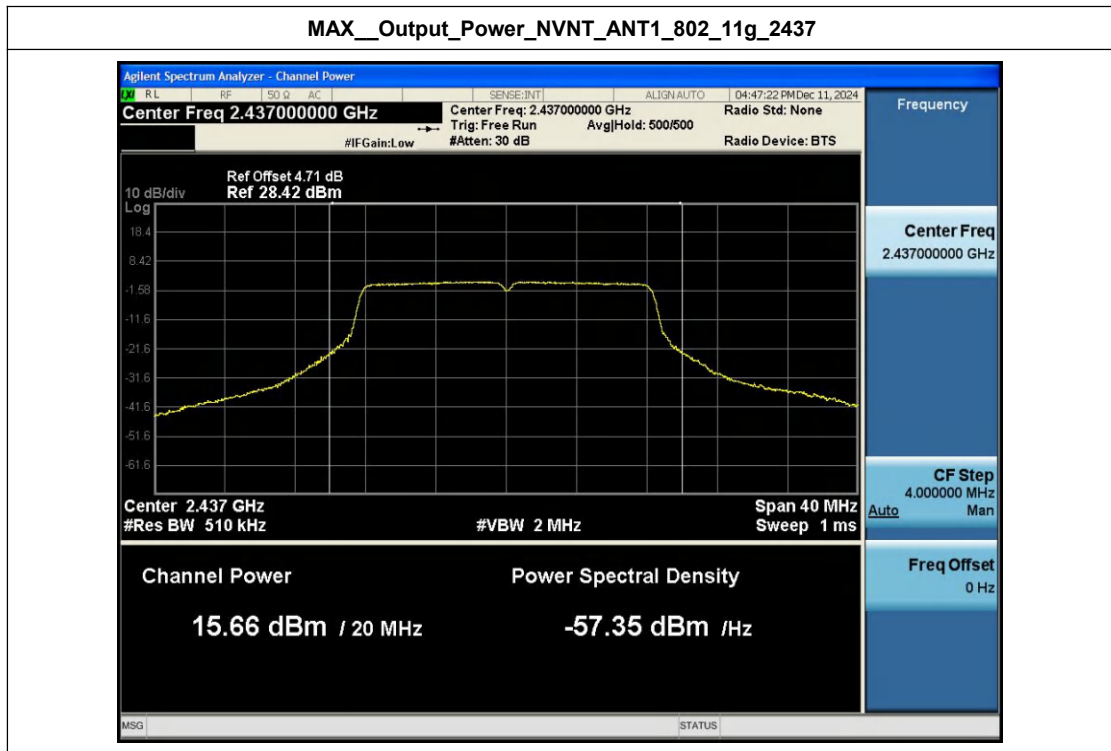


MAX__Output_Power_NVNT_ANT1_802_11g_2412



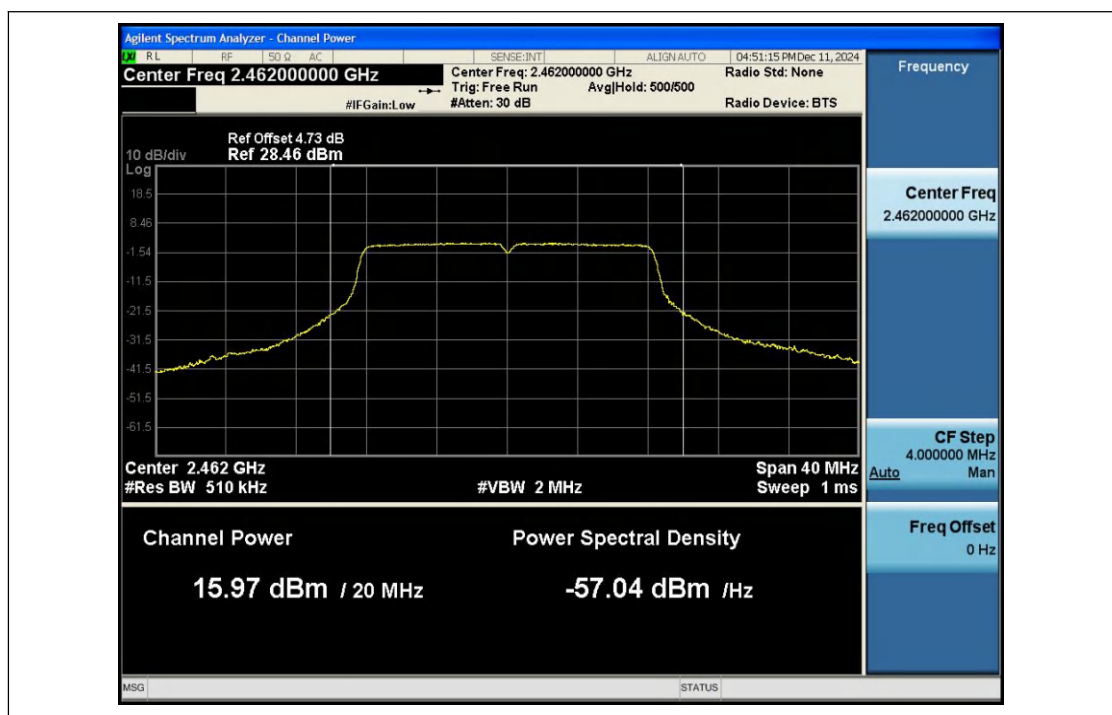


MAX__Output_Power_NVNT_ANT1_802_11g_2437

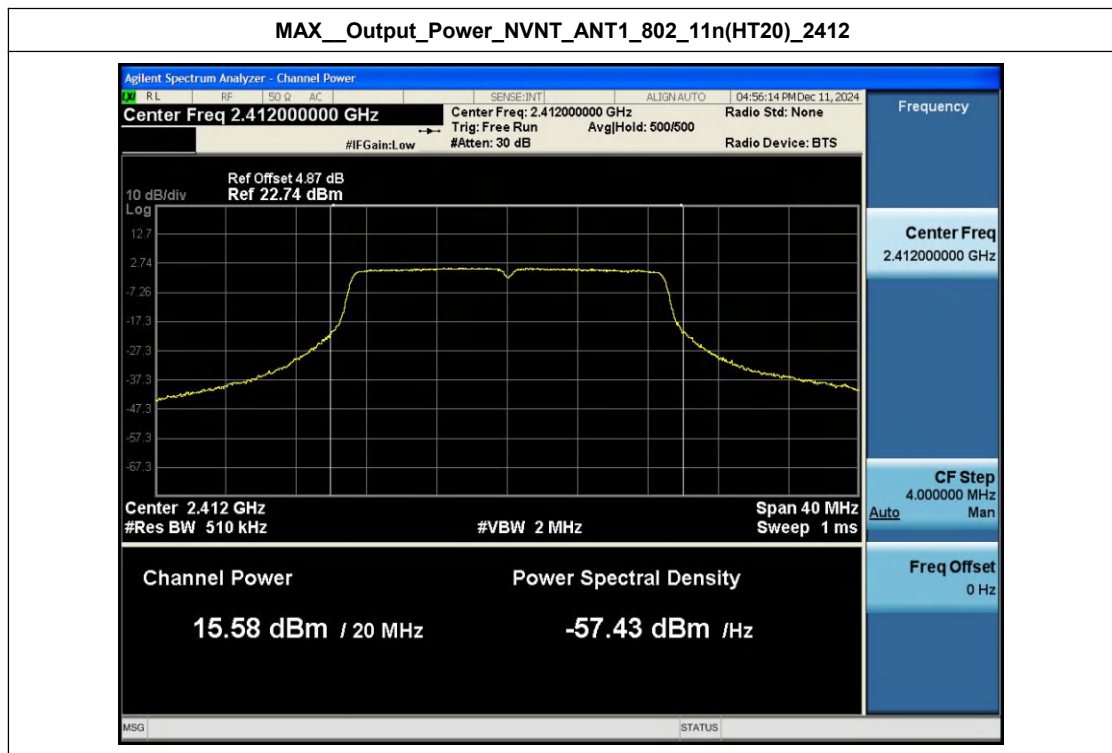


MAX__Output_Power_NVNT_ANT1_802_11g_2462



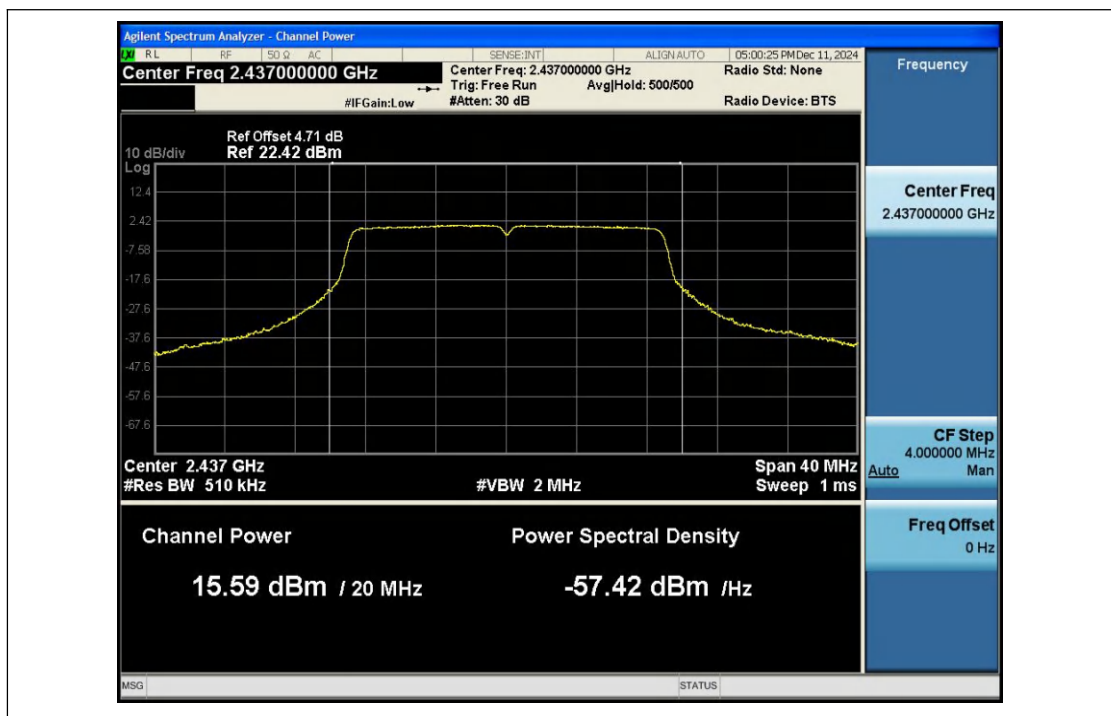


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412

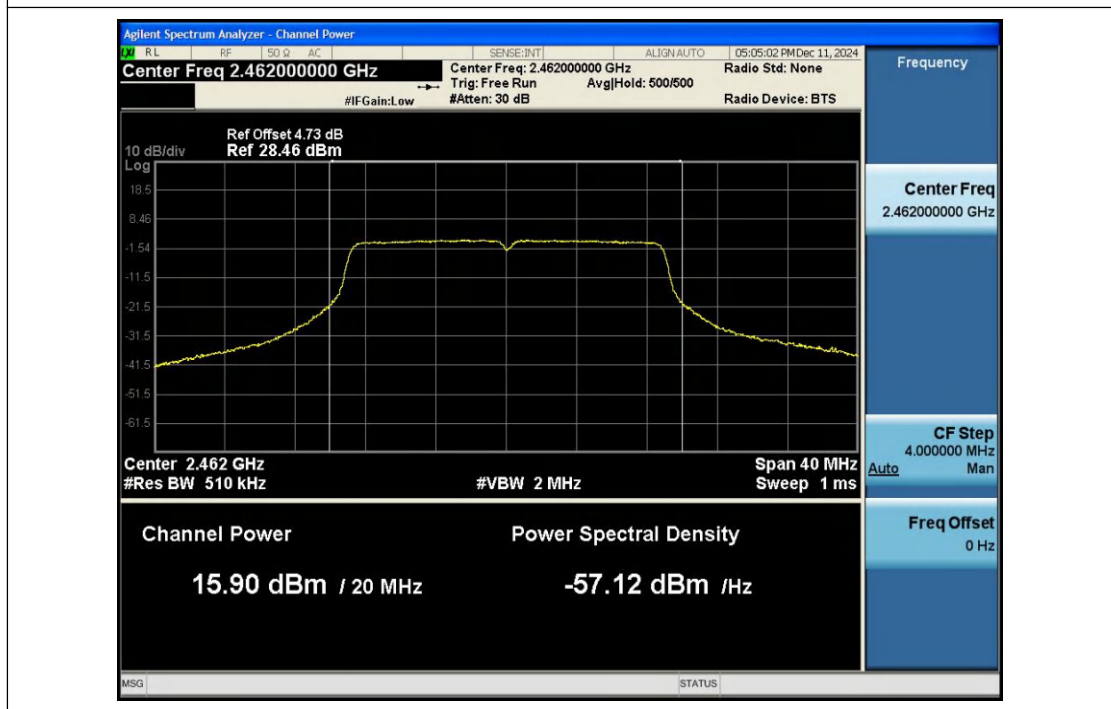


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437





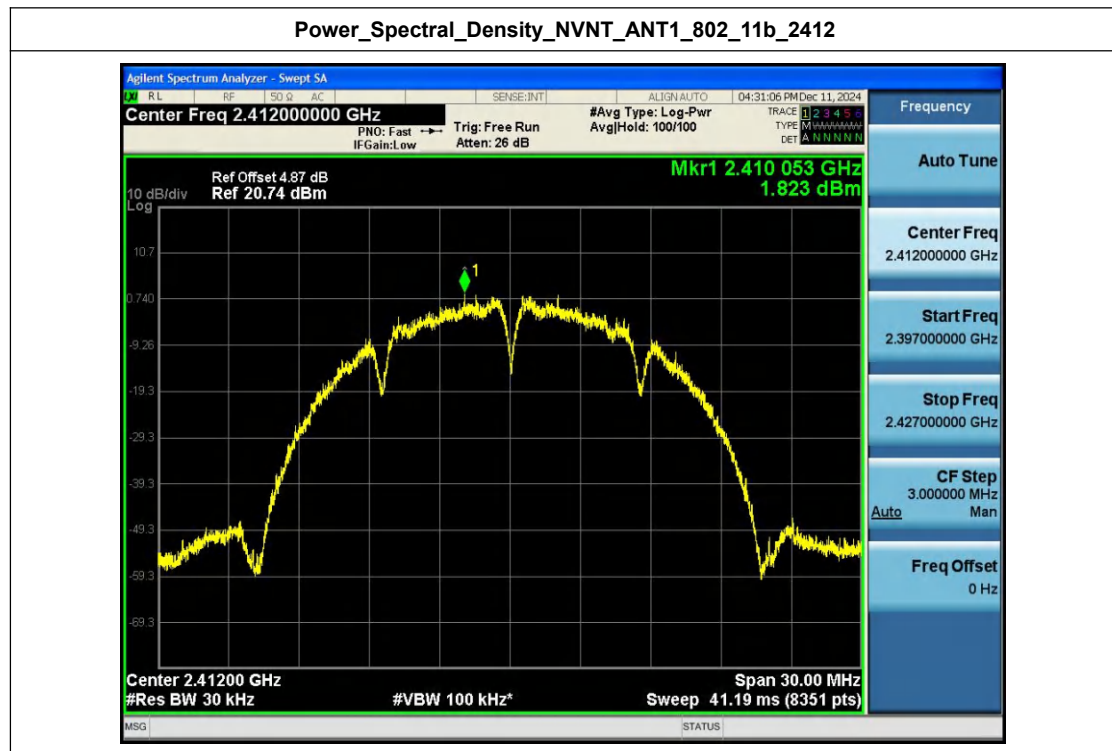
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



Appendix E: Power Spectral Density

Condi tion	Anten na	Modulatio n	Frequen cy (MHz)	SA_PSD(dBm/3 0kHz)	Duty factor(d B)	RB factor(d B)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Res ult
NVNT	ANT1	802.11b	2412.00	1.82	0.00	-10.00	-8.18	8	Pass
NVNT	ANT1	802.11b	2437.00	1.93	0.00	-10.00	-8.07	8	Pass
NVNT	ANT1	802.11b	2462.00	2.99	0.00	-10.00	-7.01	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.90	0.24	-10.00	-10.66	8	Pass
NVNT	ANT1	802.11g	2437.00	0.00	0.16	-10.00	-9.84	8	Pass
NVNT	ANT1	802.11g	2462.00	0.42	0.16	-10.00	-9.42	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-0.72	0.26	-10.00	-10.46	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-0.75	0.17	-10.00	-10.58	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-0.33	0.17	-10.00	-10.15	8	Pass

Note: The cable loss are compensated in the graph.

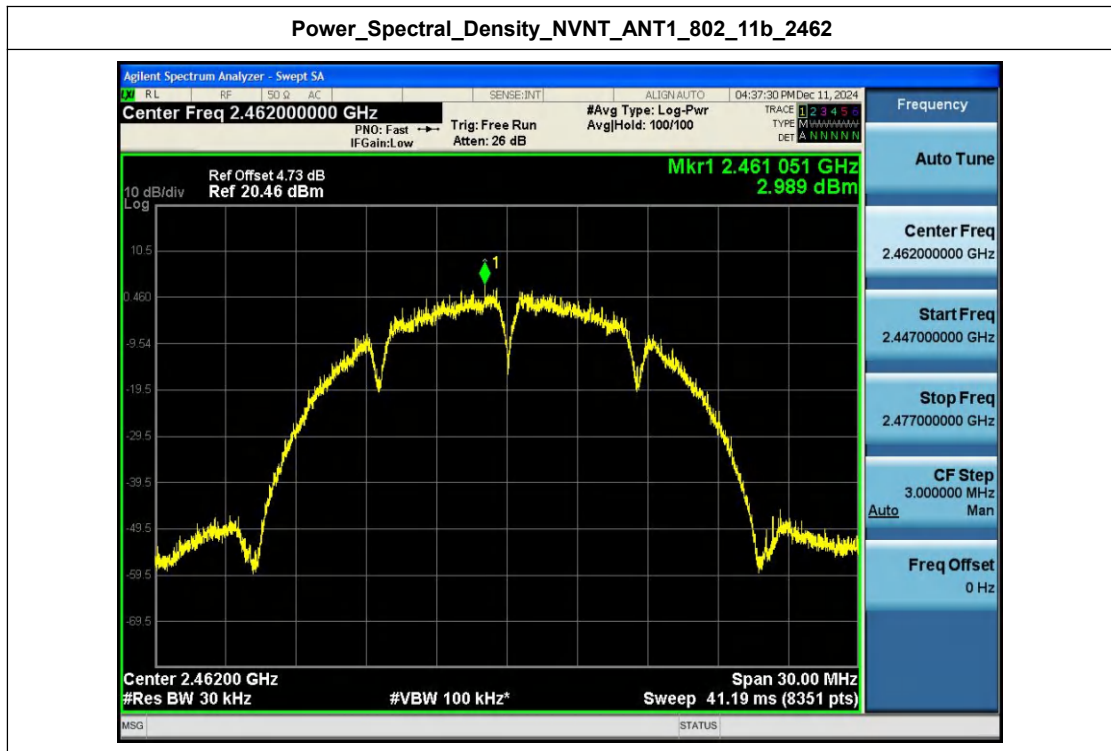


Power_Spectral_Density_NVNT_ANT1_802_11b_2437



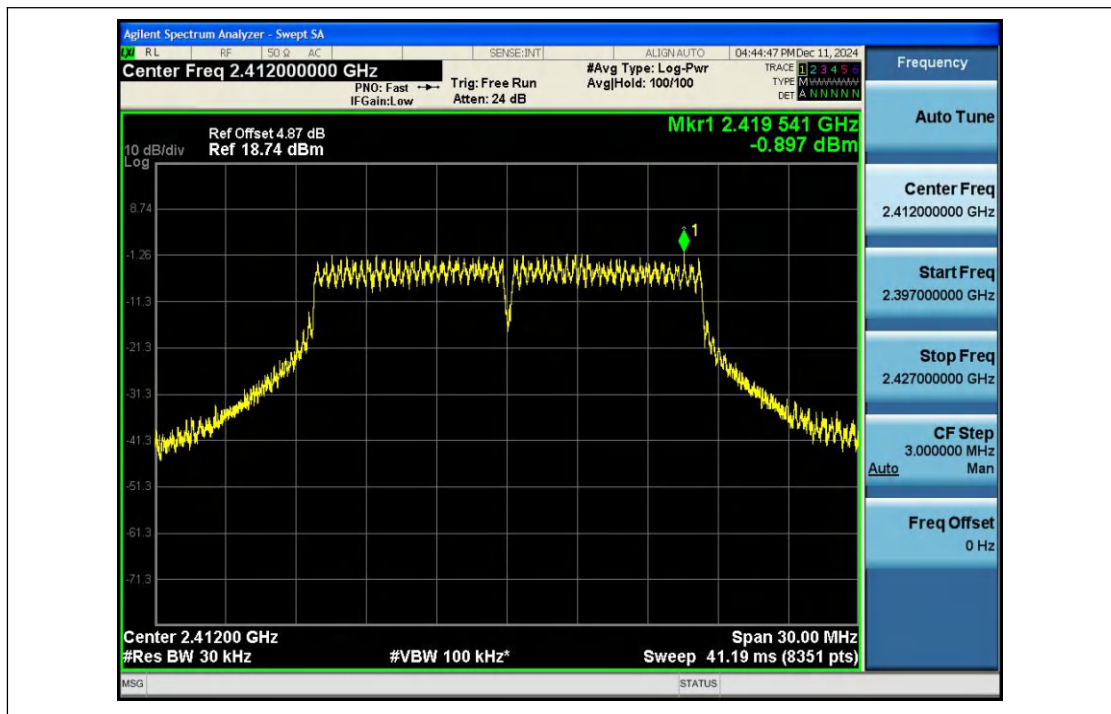


Power_Spectral_Density_NVNT_ANT1_802_11b_2462

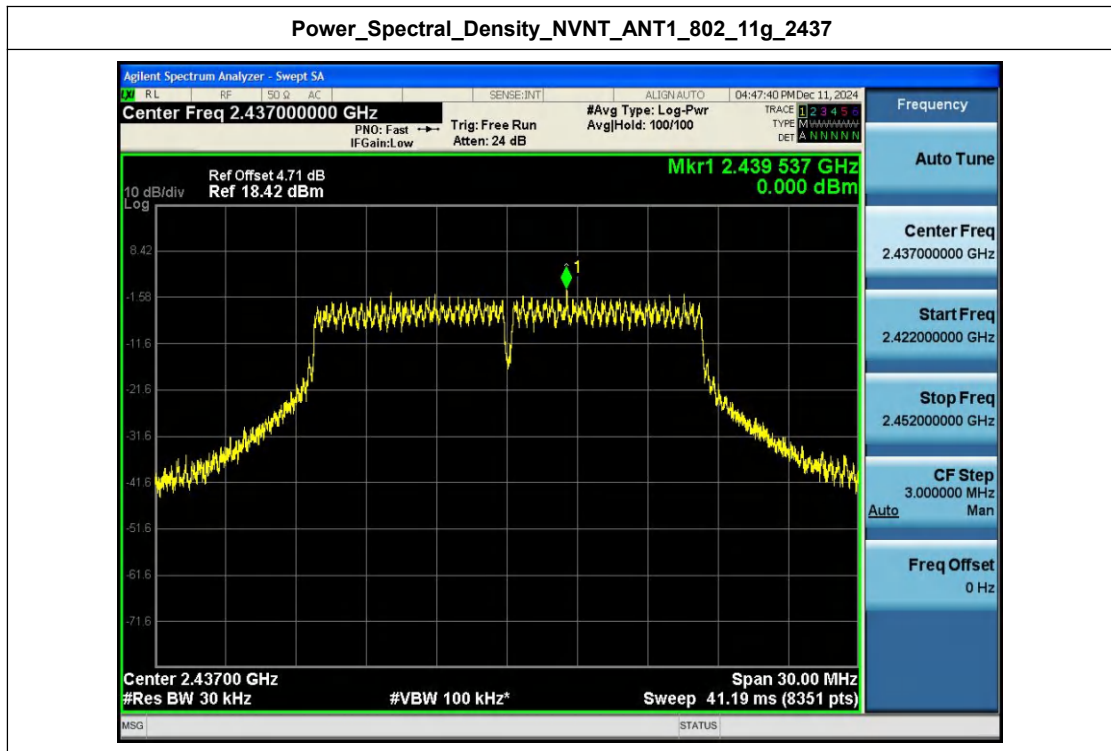


Power_Spectral_Density_NVNT_ANT1_802_11g_2412



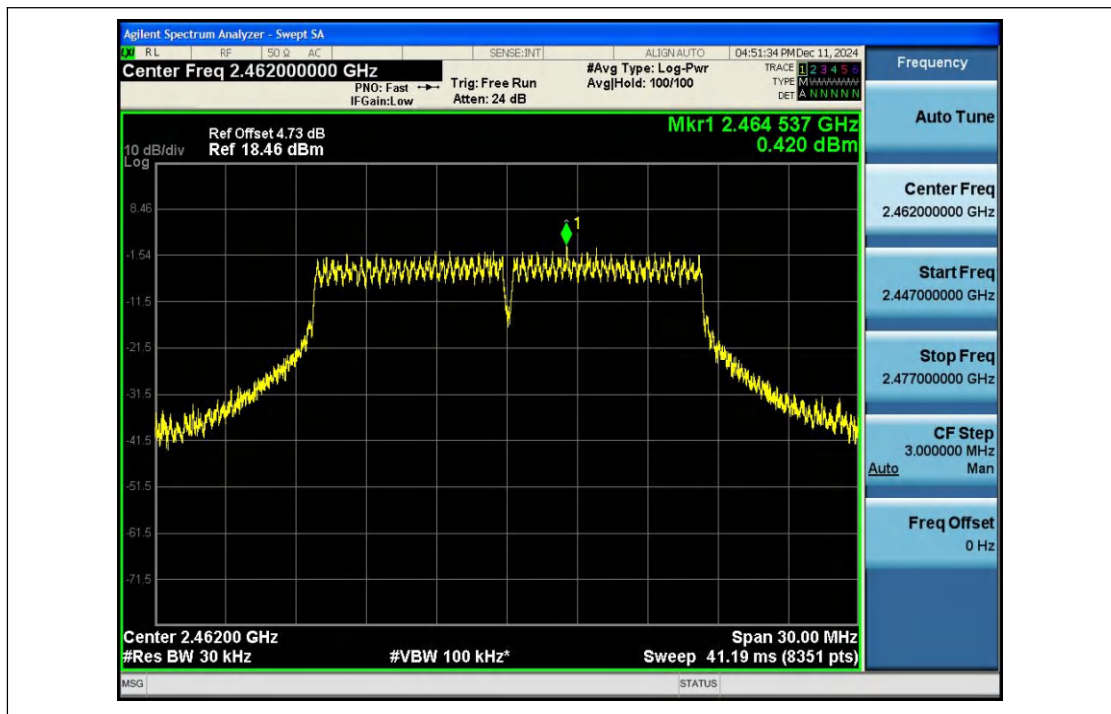


Power_Spectral_Density_NVNT_ANT1_802_11g_2437

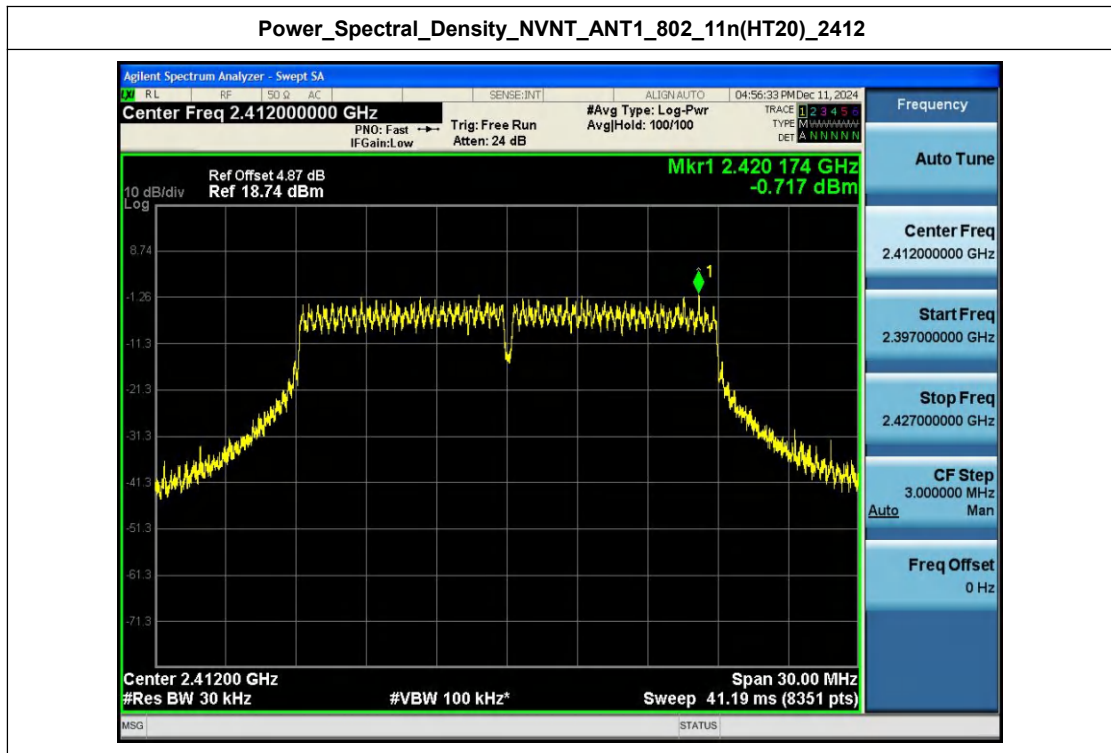


Power_Spectral_Density_NVNT_ANT1_802_11g_2462



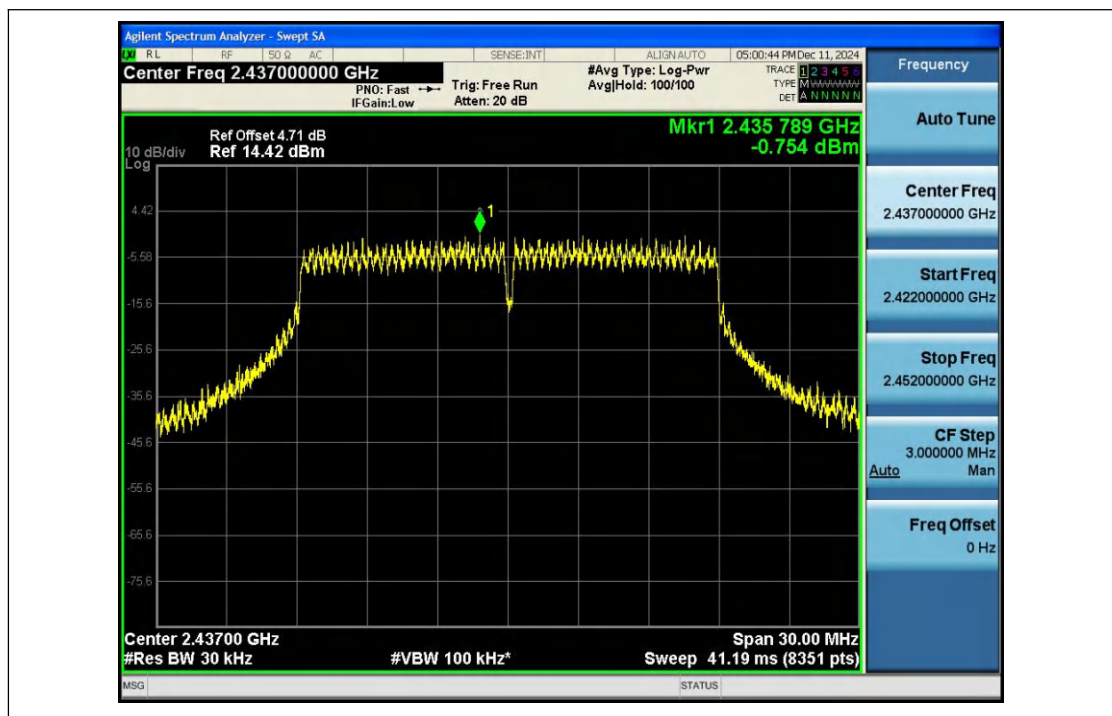


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412

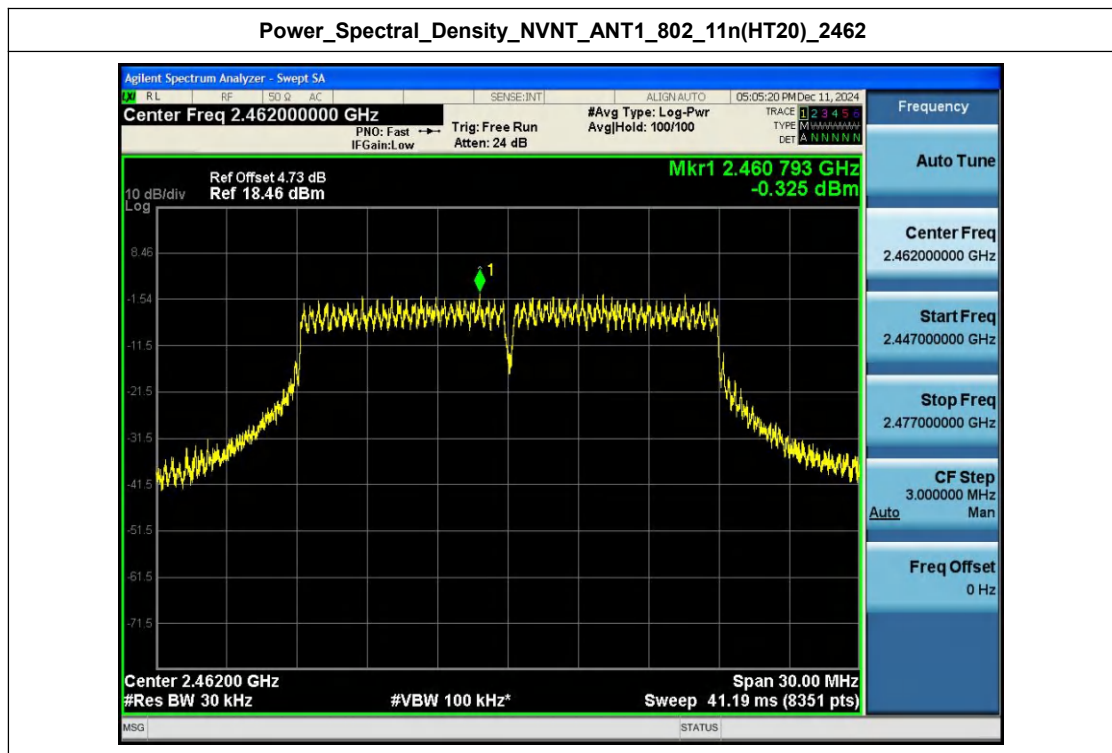


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437





Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



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	2399.600	4.651	-47.604	-25.349	Pass
NVNT	ANT1	802.11b	2462.00	2492.992	4.832	-51.701	-25.168	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	1.766	-32.336	-28.234	Pass
NVNT	ANT1	802.11g	2462.00	2483.584	2.481	-39.889	-27.519	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	1.821	-32.969	-28.179	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	2.643	-34.104	-27.357	Pass

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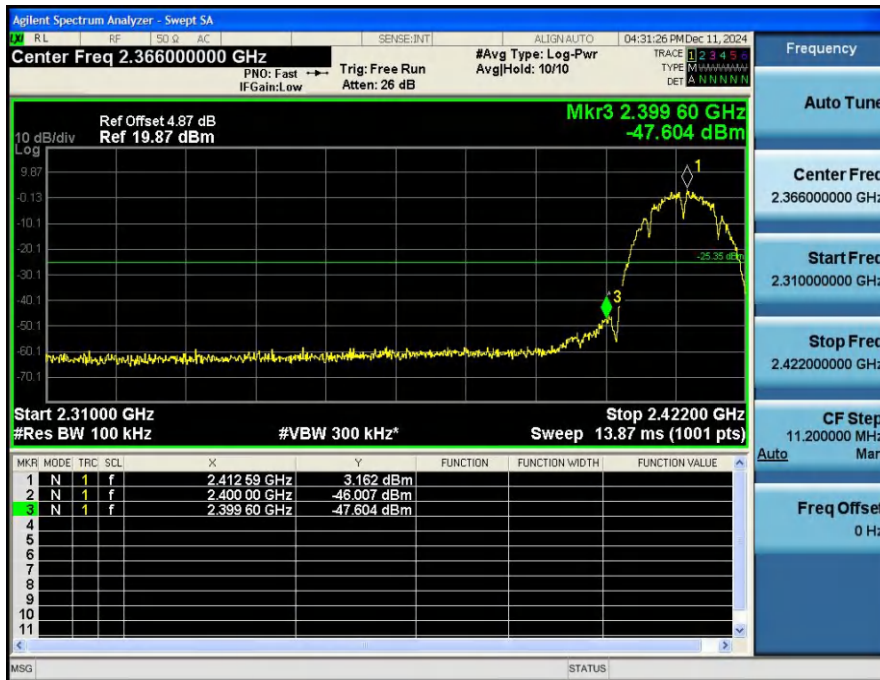
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1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2462

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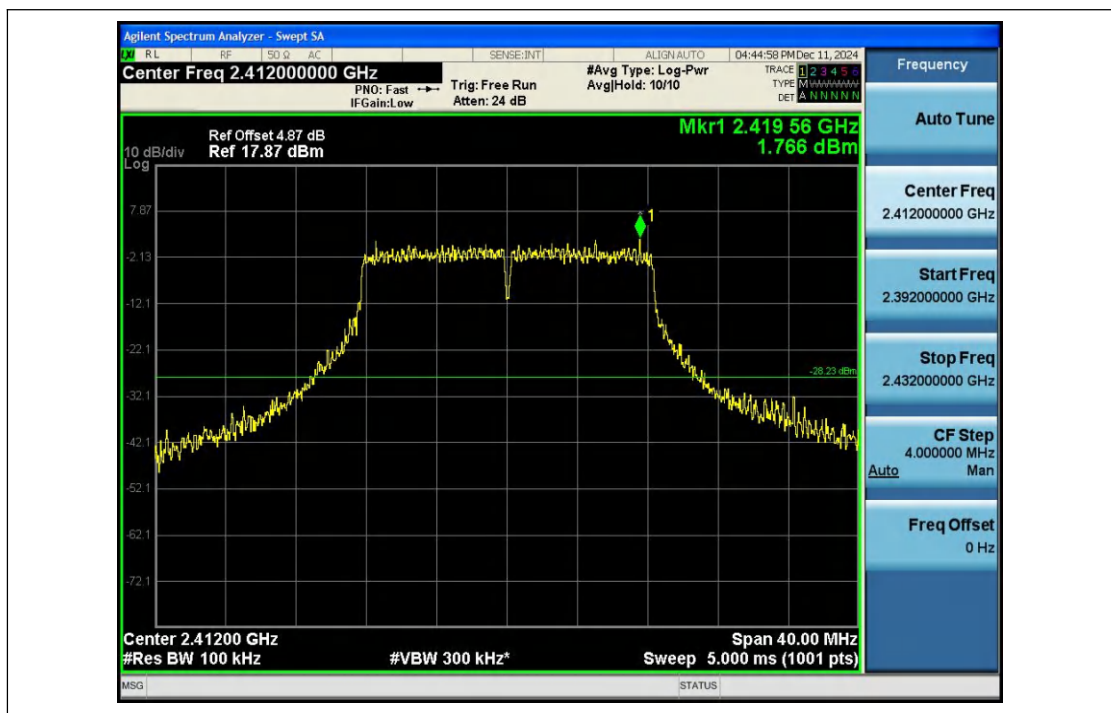


2_Bandedge_NVNT_ANT1_802_11b_2462



1_Reference_Level_NVNT_ANT1_802_11g_2412



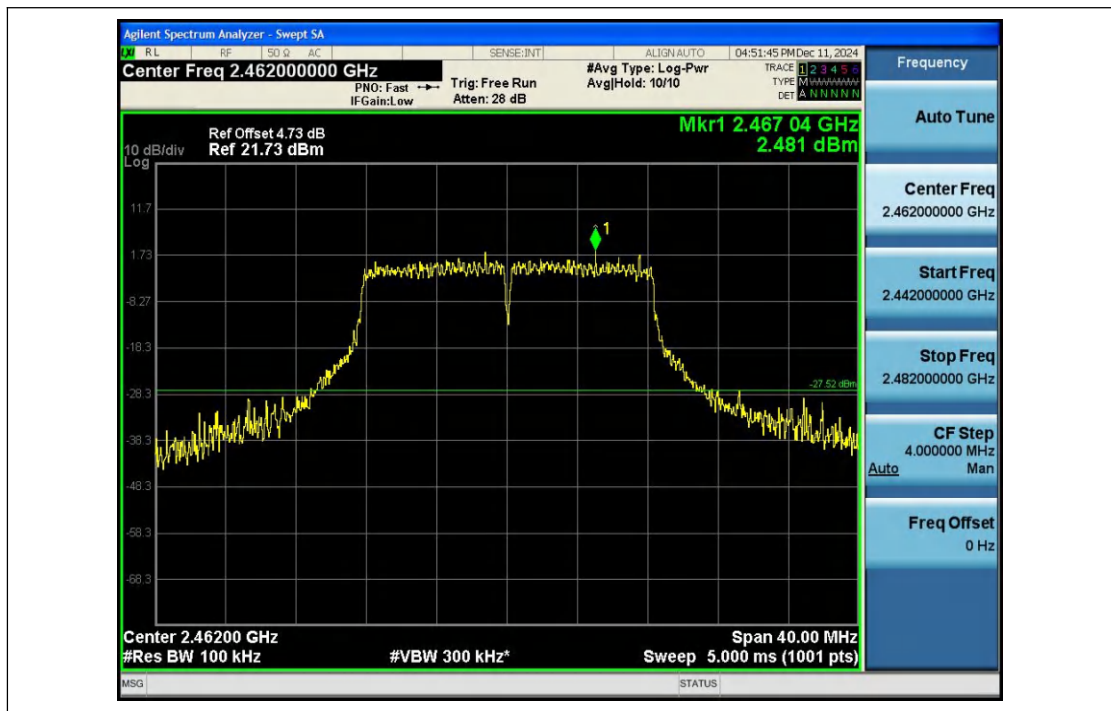


2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



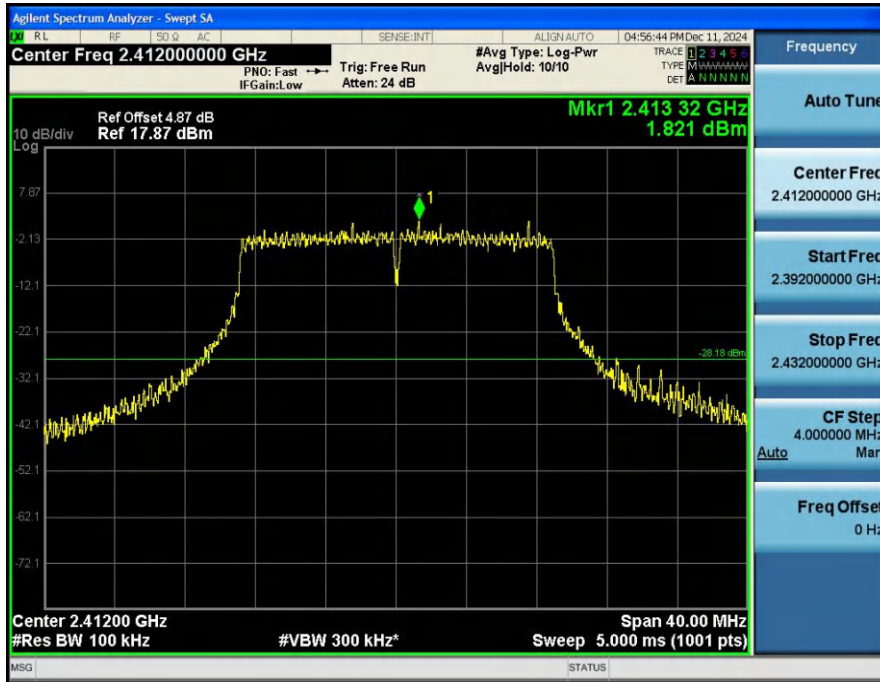


2_Bandedge_NVNT_ANT1_802_11g_2462



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





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	24840.192	4.651	-58.360	-25.349	Pass
NVNT	ANT1	802.11b	2437.00	24865.162	5.501	-53.359	-24.499	Pass
NVNT	ANT1	802.11b	2462.00	24812.725	4.832	-53.791	-25.168	Pass
NVNT	ANT1	802.11g	2412.00	24830.204	1.766	-60.054	-28.234	Pass
NVNT	ANT1	802.11g	2437.00	24832.701	4.046	-58.558	-25.954	Pass
NVNT	ANT1	802.11g	2462.00	24910.108	2.481	-56.016	-27.519	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24805.234	1.821	-59.956	-28.179	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24895.126	3.374	-56.444	-26.626	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24860.168	2.643	-60.334	-27.357	Pass

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Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
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Tel:(86)0755-26066440 Email:service@anbotek.com



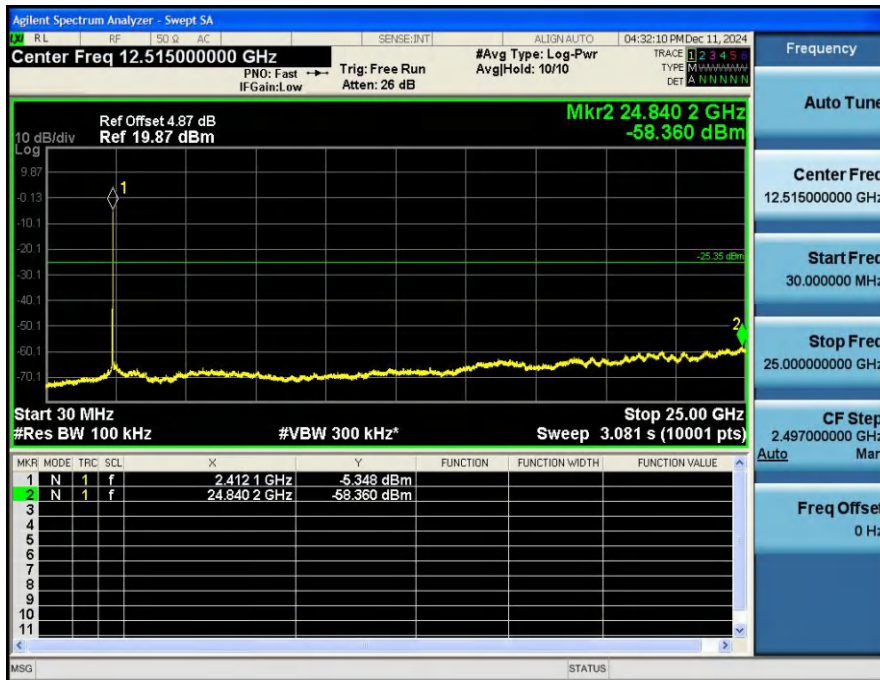
Hotline
400-003-0500
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1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437

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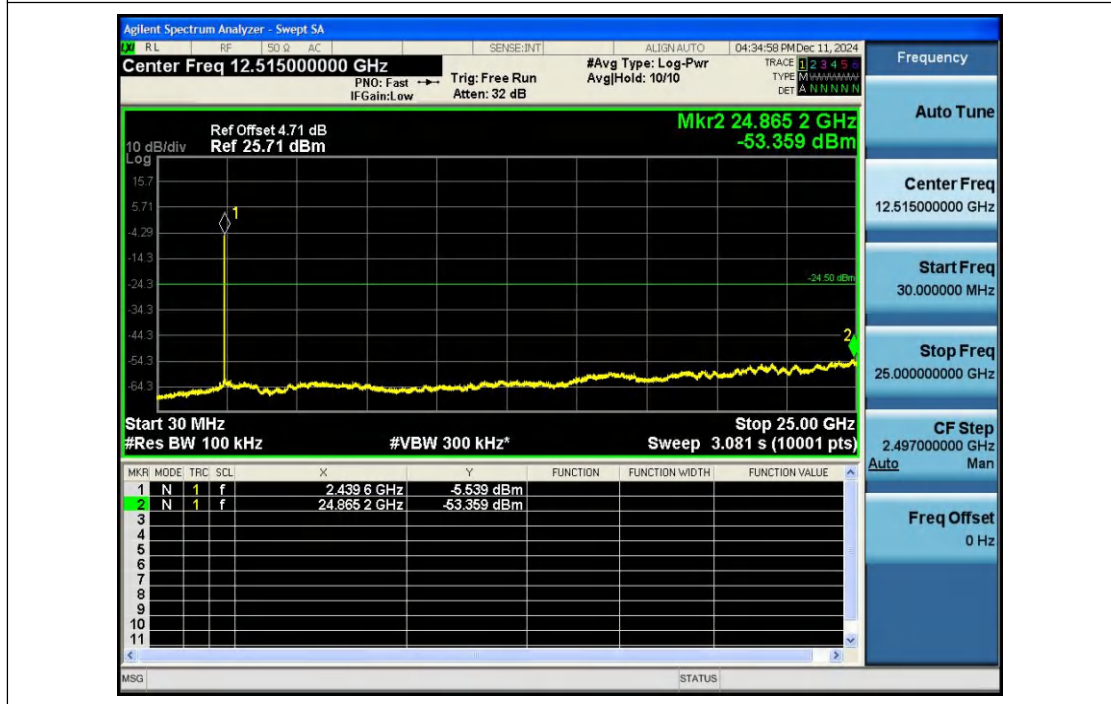
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2_Spurious_Emission_NVNT_ANT1_802_11b_2437



1_Reference_Level_NVNT_ANT1_802_11b_2462



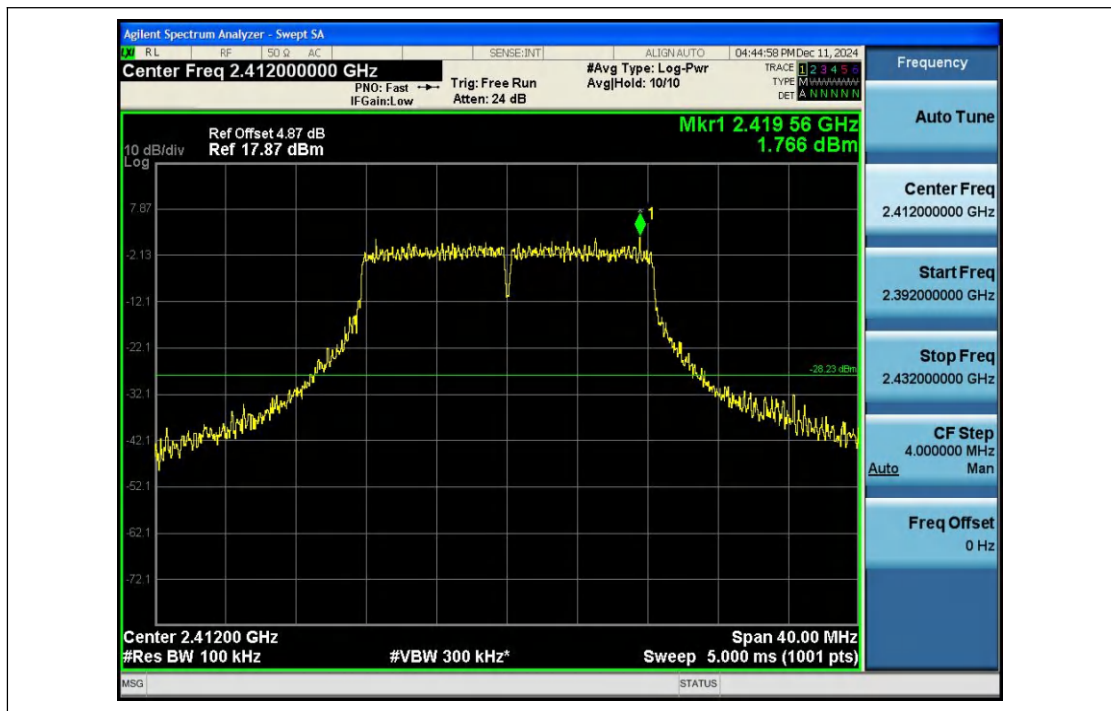


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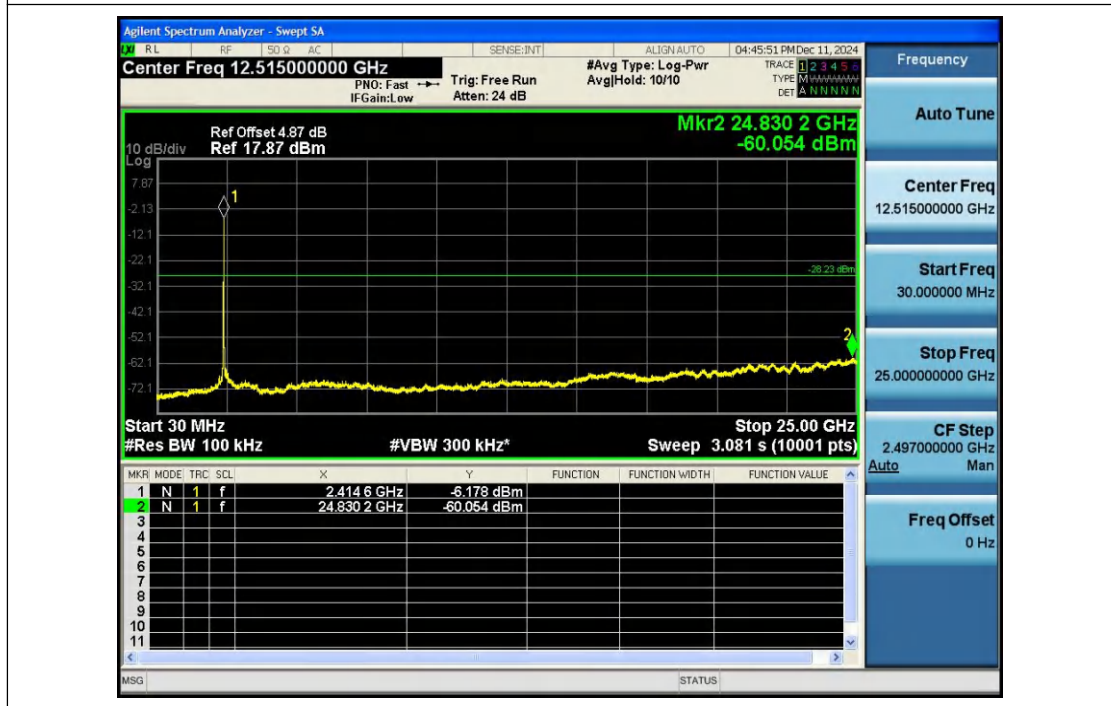


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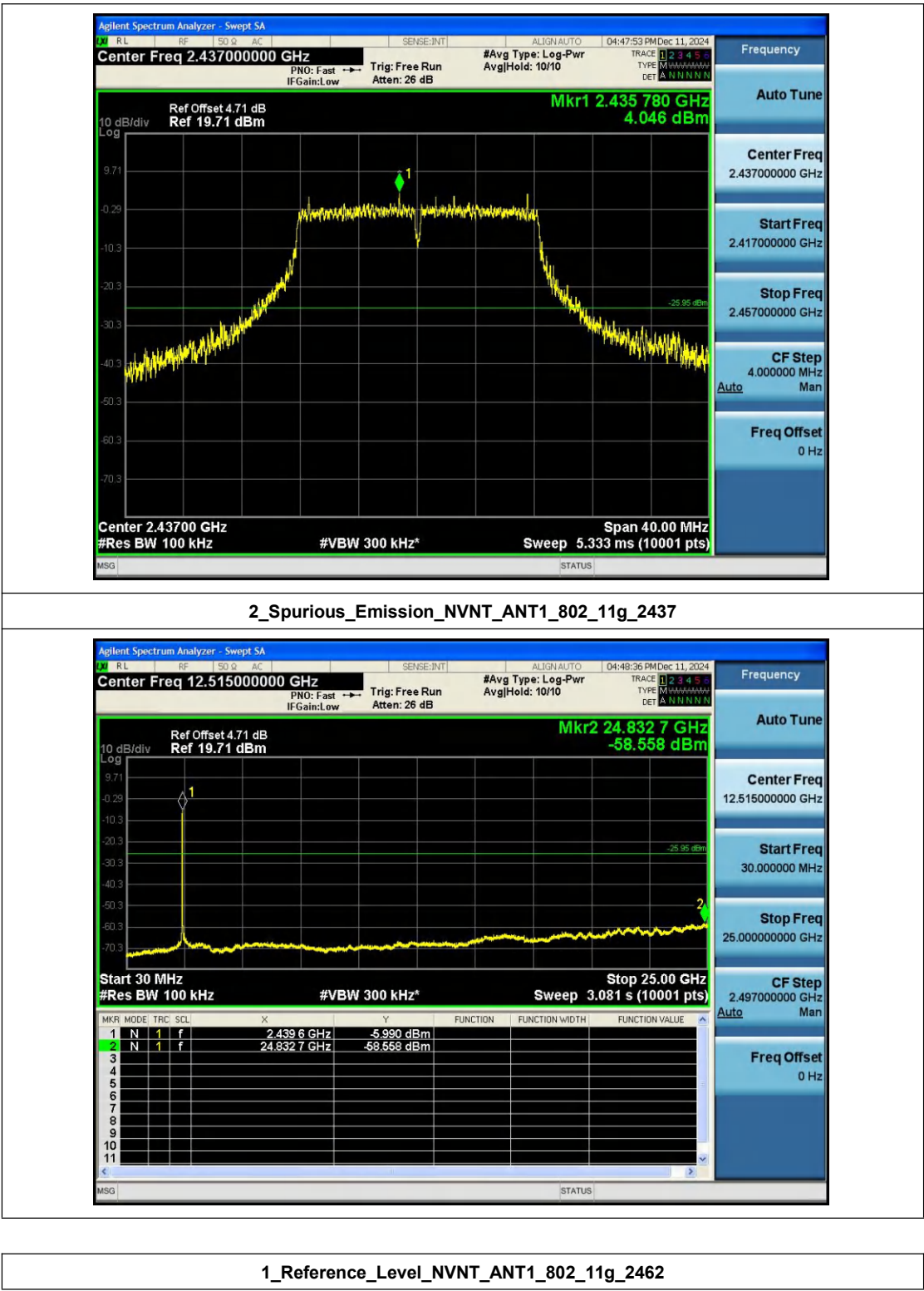


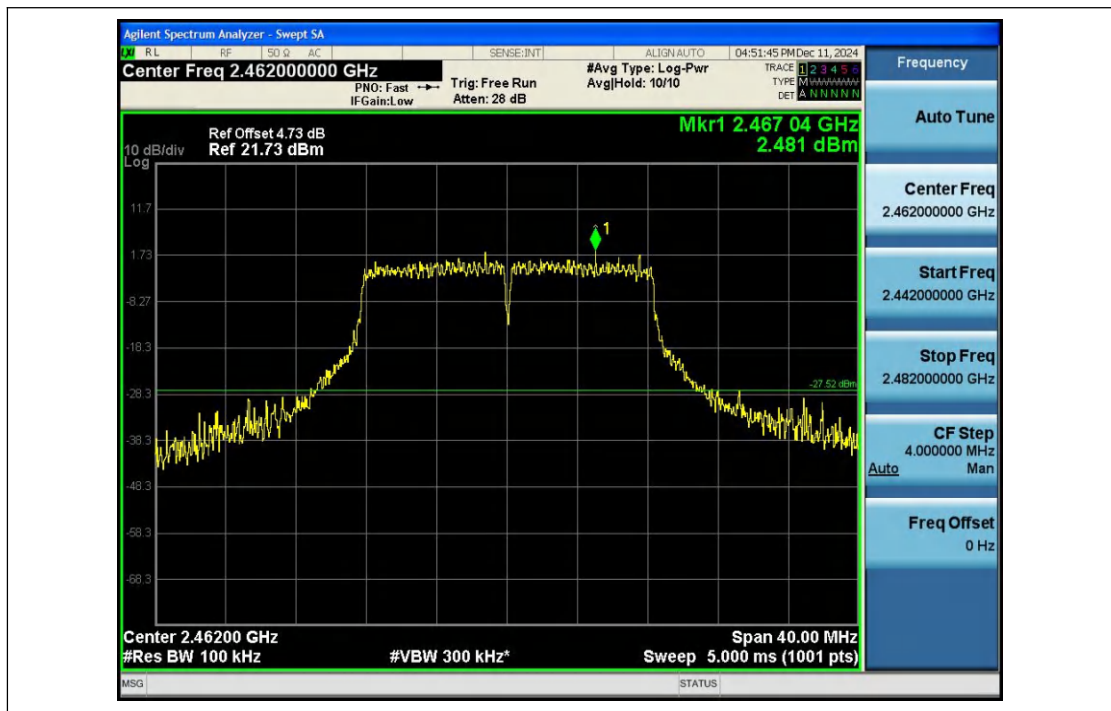
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1_Reference_Level_NVNT_ANT1_802_11g_2437





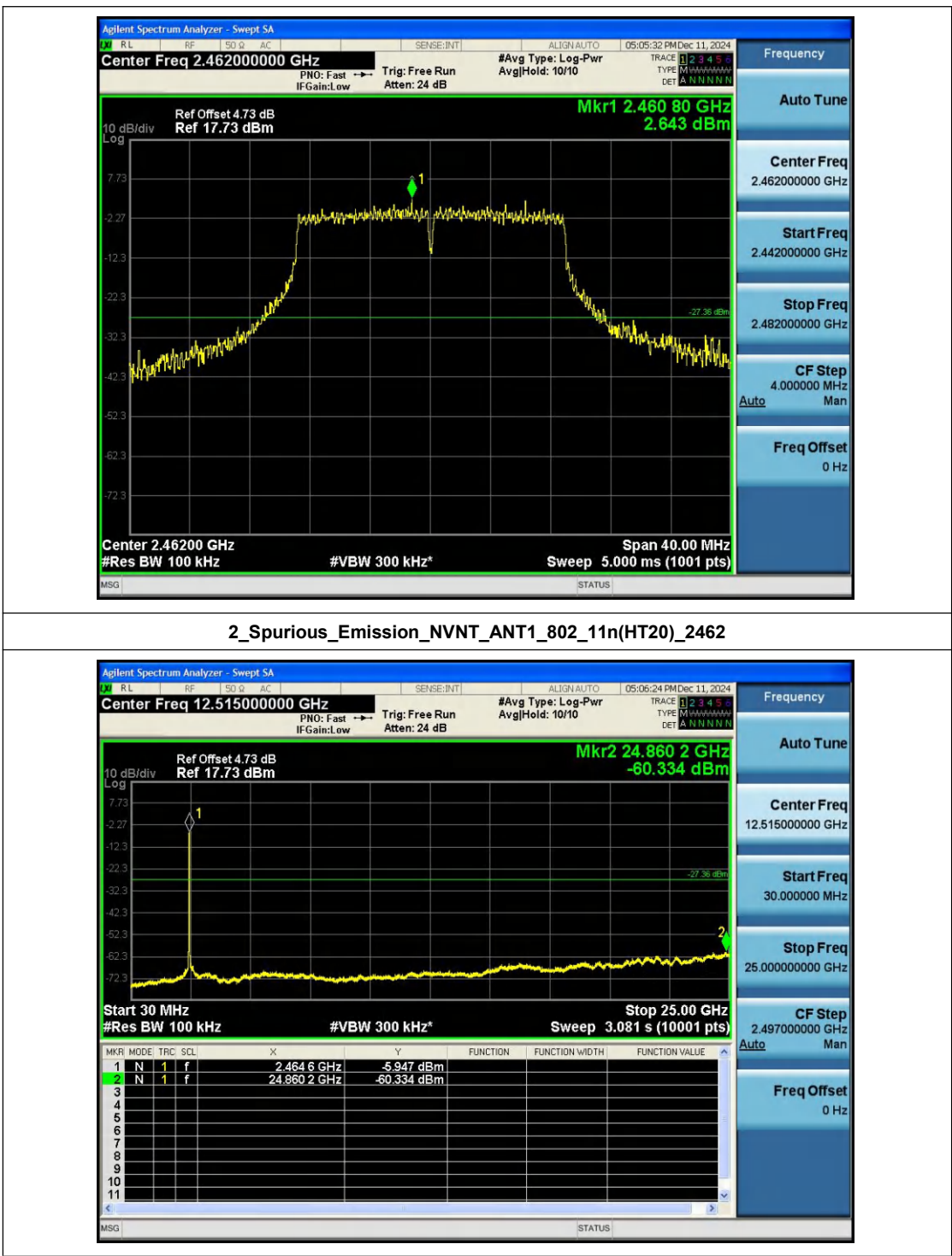


2_Spurious_Emission_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412





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