

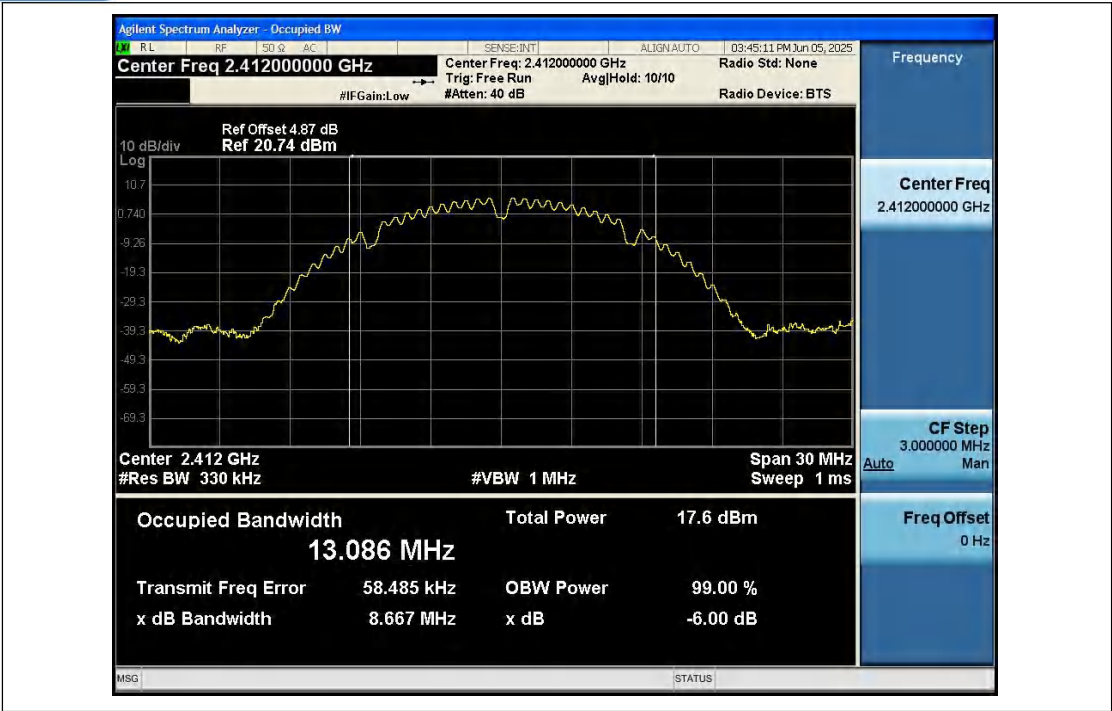
Appendix Test Data

Report No.:	1812C50257212502	Test Sample No.:	1-2-2
Start Test Date:	2025.5.28	Finish Test Date:	2025.6.5
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.5℃	Relative Humidity:	56%
Pressure:	101kPa		

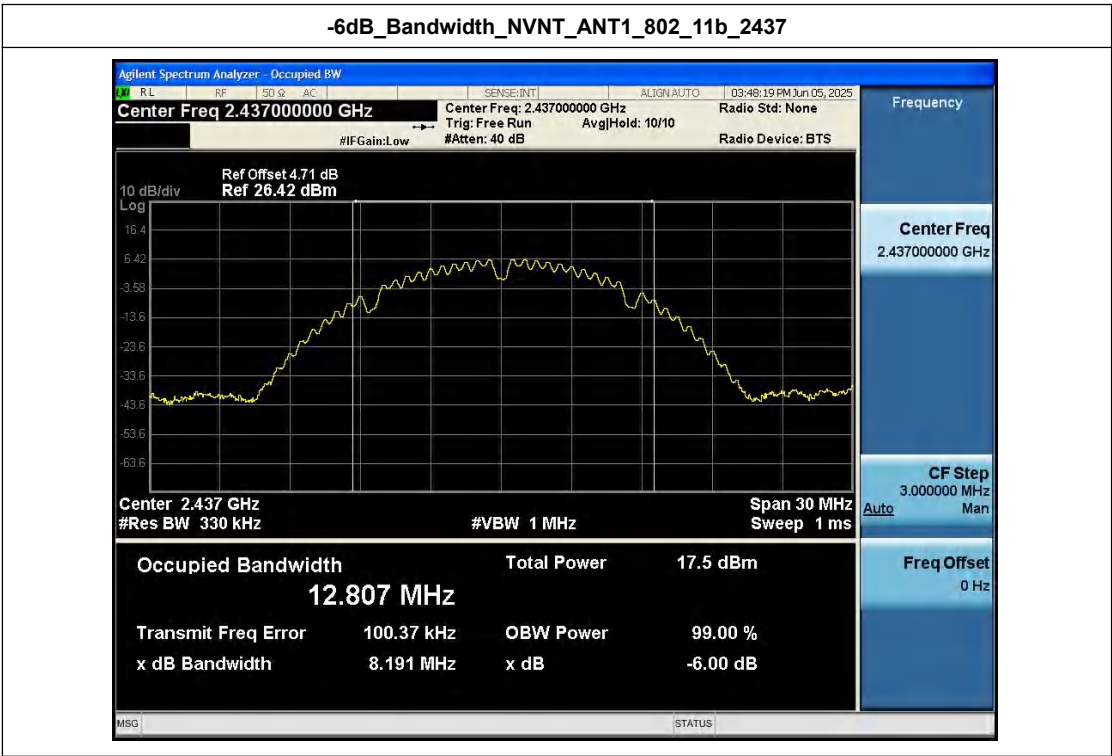
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.67	500	Pass
NVNT	ANT1	802.11b	2437.00	8.19	500	Pass
NVNT	ANT1	802.11b	2462.00	8.19	500	Pass
NVNT	ANT1	802.11g	2412.00	16.26	500	Pass
NVNT	ANT1	802.11g	2437.00	16.03	500	Pass
NVNT	ANT1	802.11g	2462.00	16.09	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.56	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.12	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.36	500	Pass

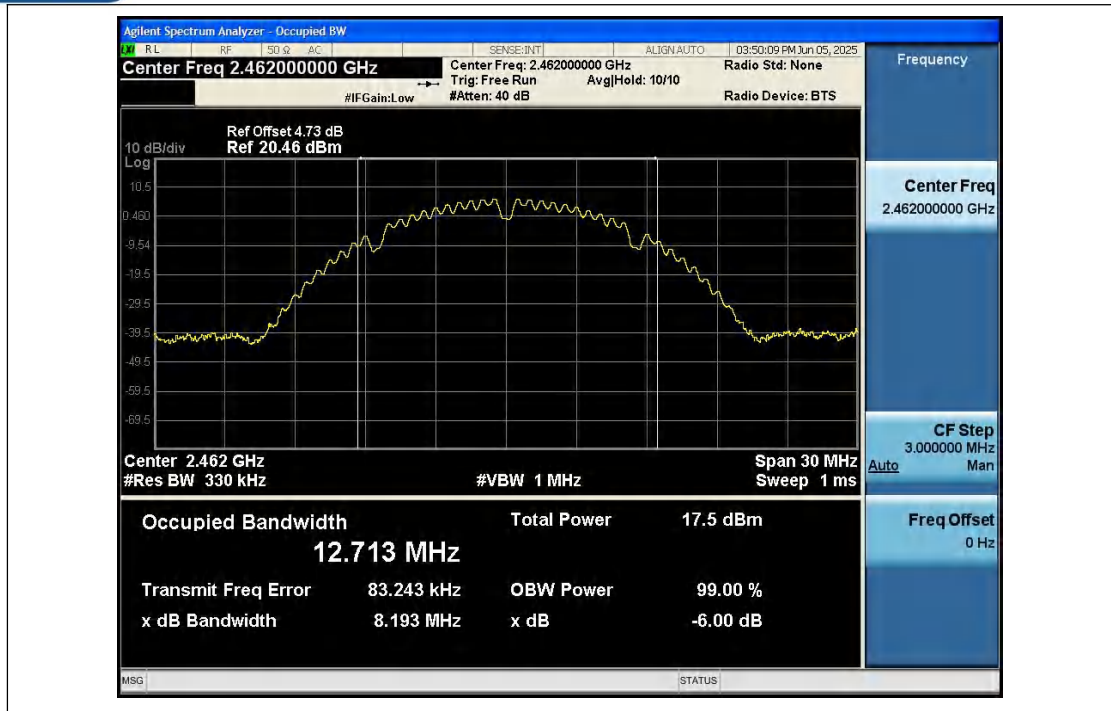
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



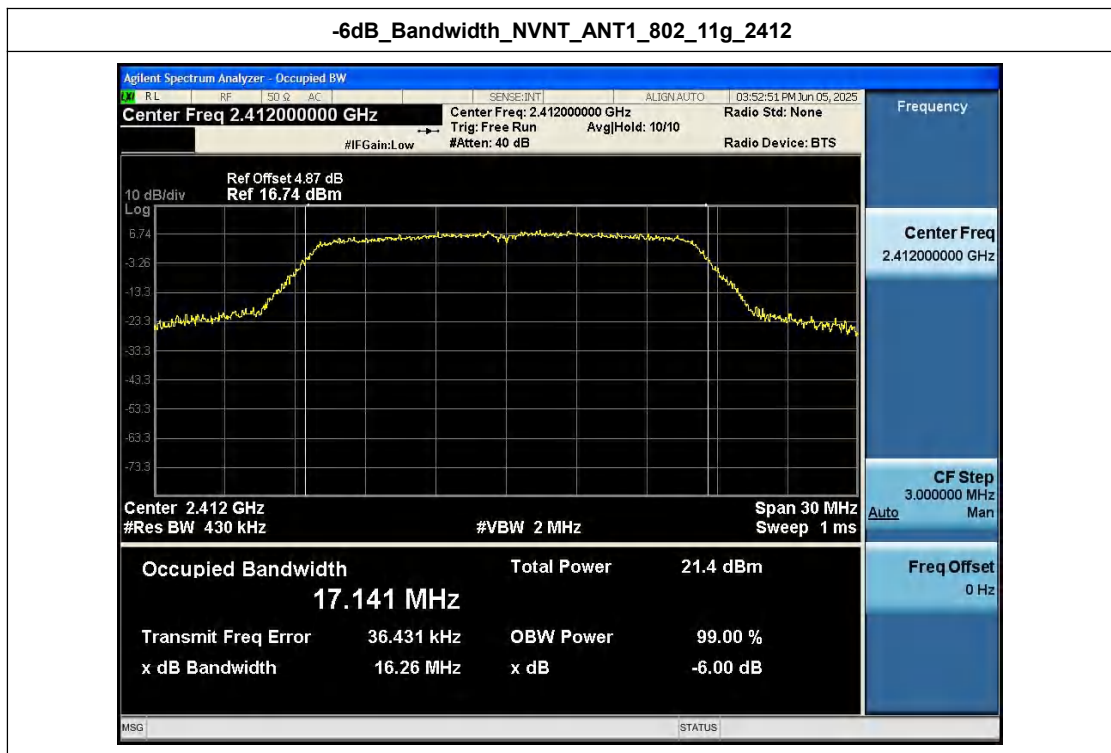
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



-6dB_Bandwidth_NVNT_ANT1_802_11b_2462

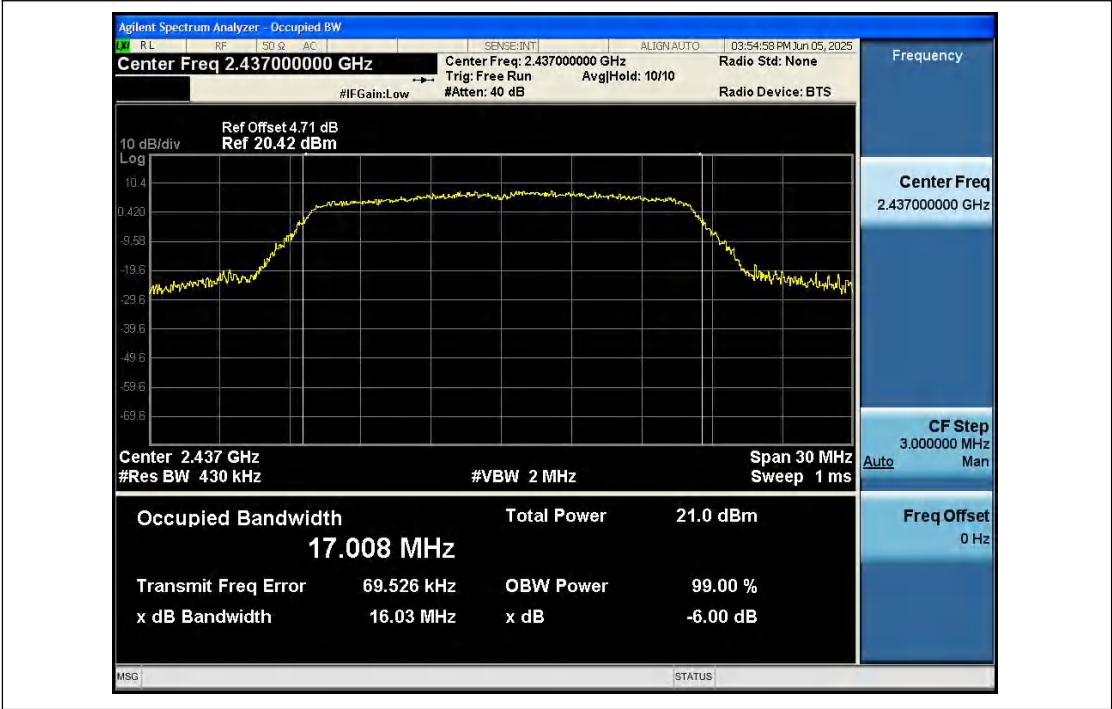


-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

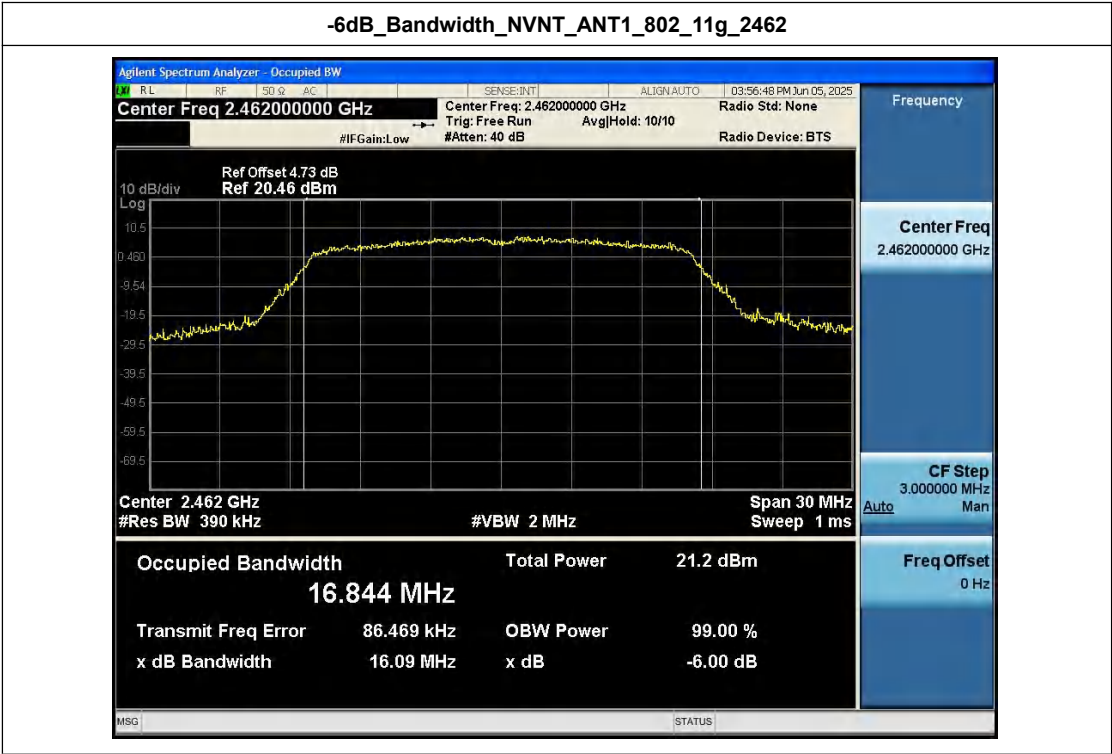


-6dB_Bandwidth_NVNT_ANT1_802_11g_2437

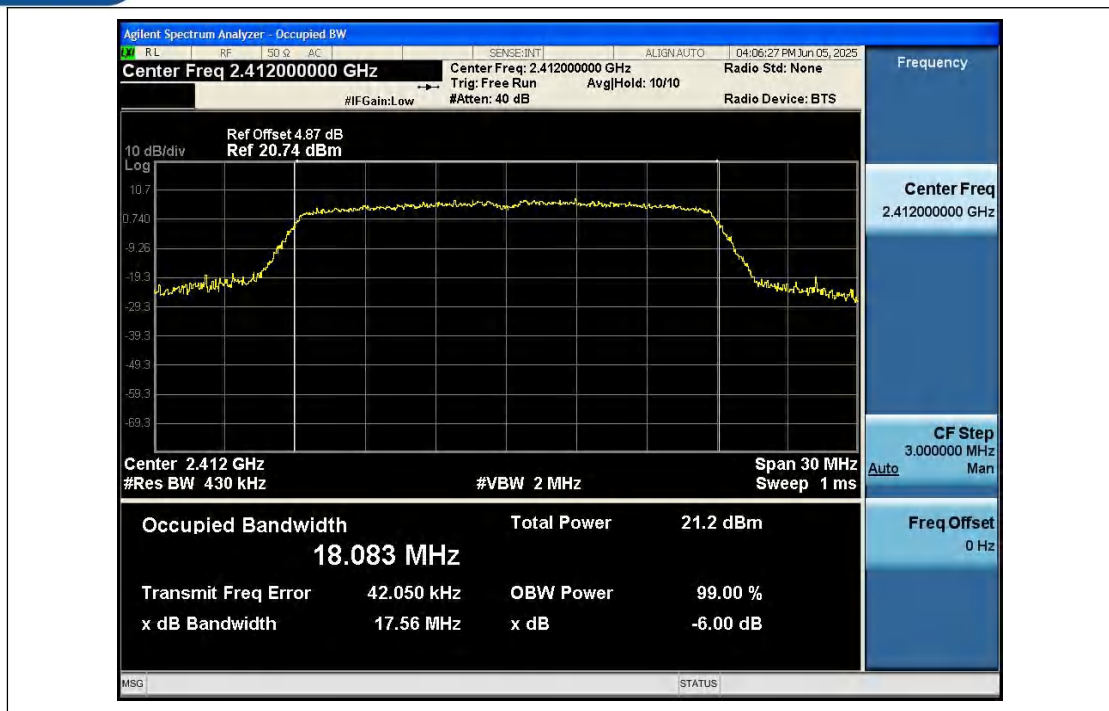




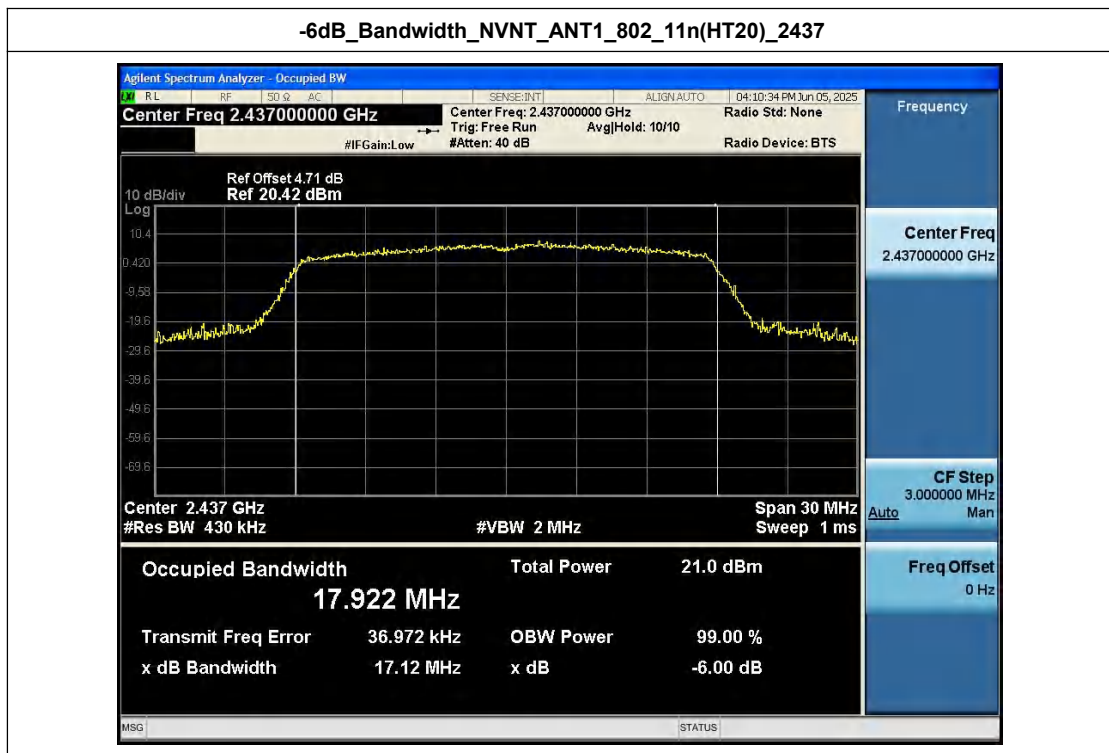
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



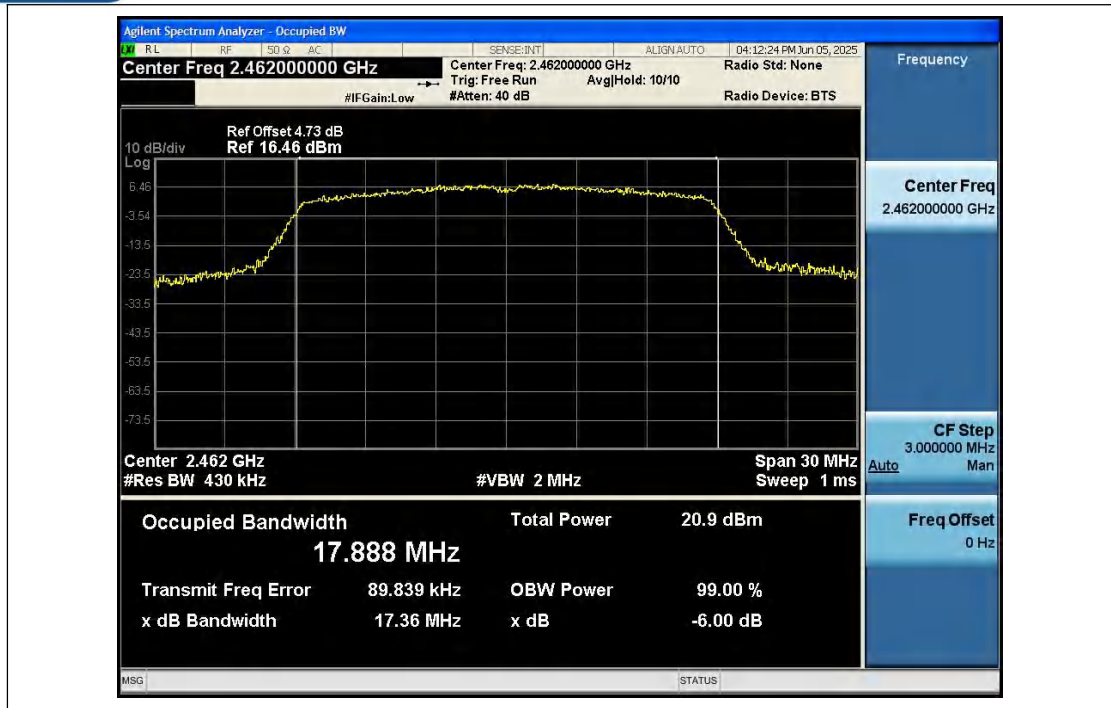
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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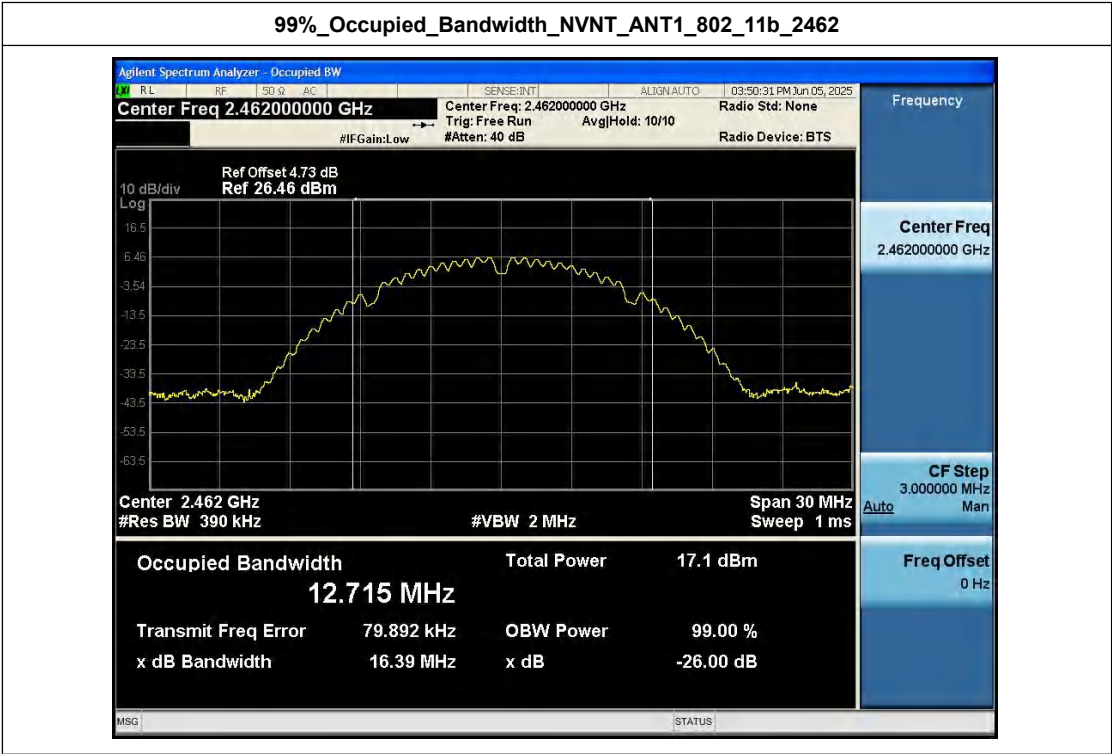
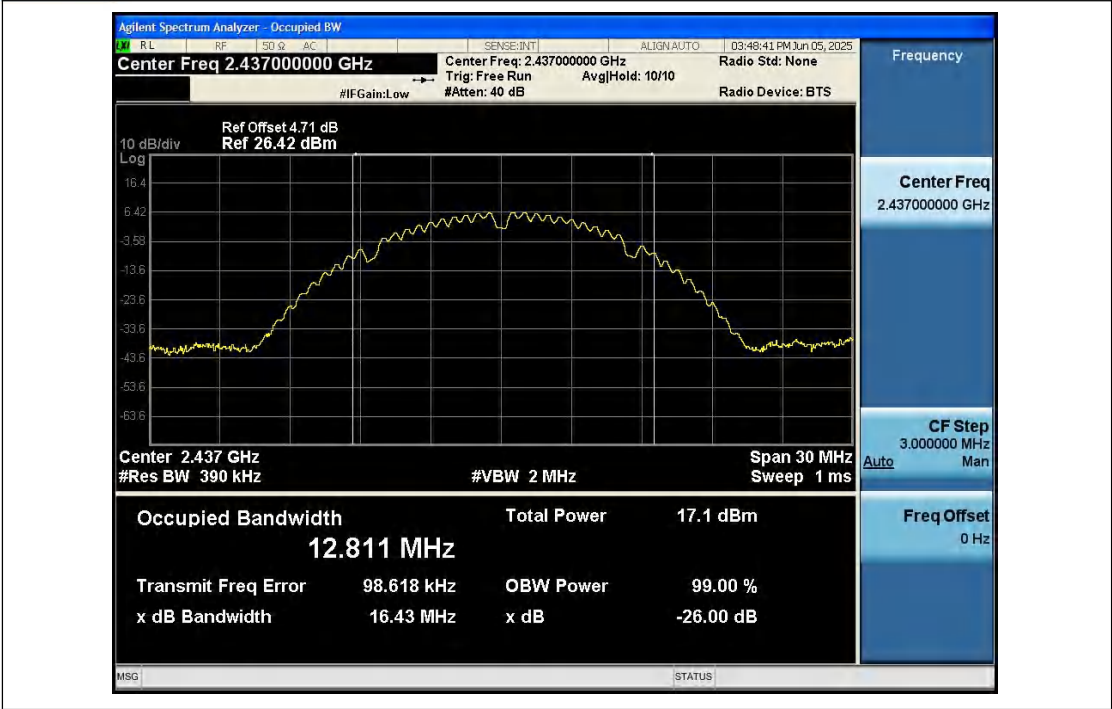
Appendix B: 99% Occupied Bandwidth

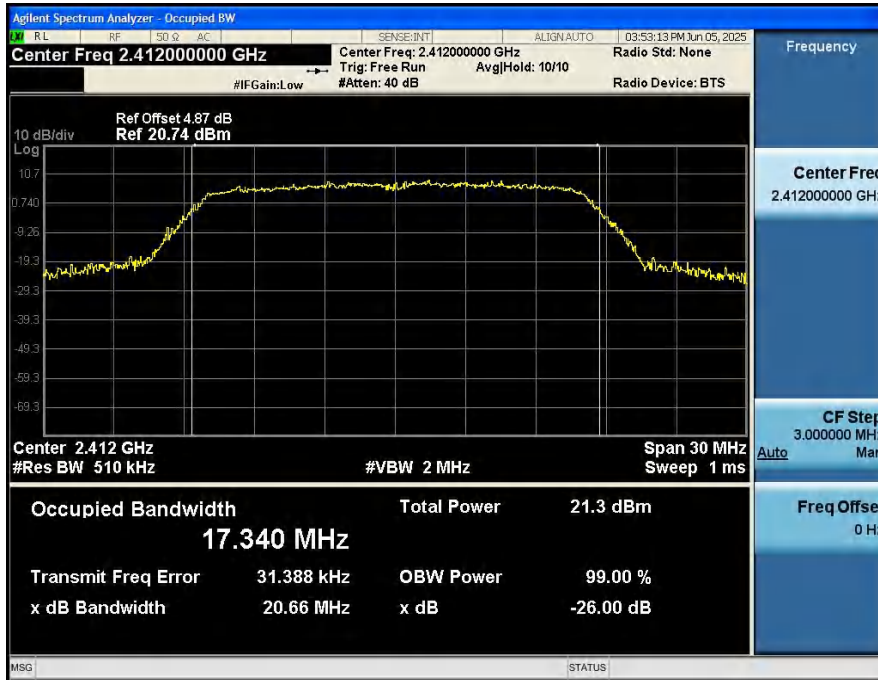
Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.092
NVNT	ANT1	802.11b	2437.00	12.811
NVNT	ANT1	802.11b	2462.00	12.715
NVNT	ANT1	802.11g	2412.00	17.340
NVNT	ANT1	802.11g	2437.00	17.160
NVNT	ANT1	802.11g	2462.00	17.222
NVNT	ANT1	802.11n(HT20)	2412.00	18.222
NVNT	ANT1	802.11n(HT20)	2437.00	18.018
NVNT	ANT1	802.11n(HT20)	2462.00	18.030

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

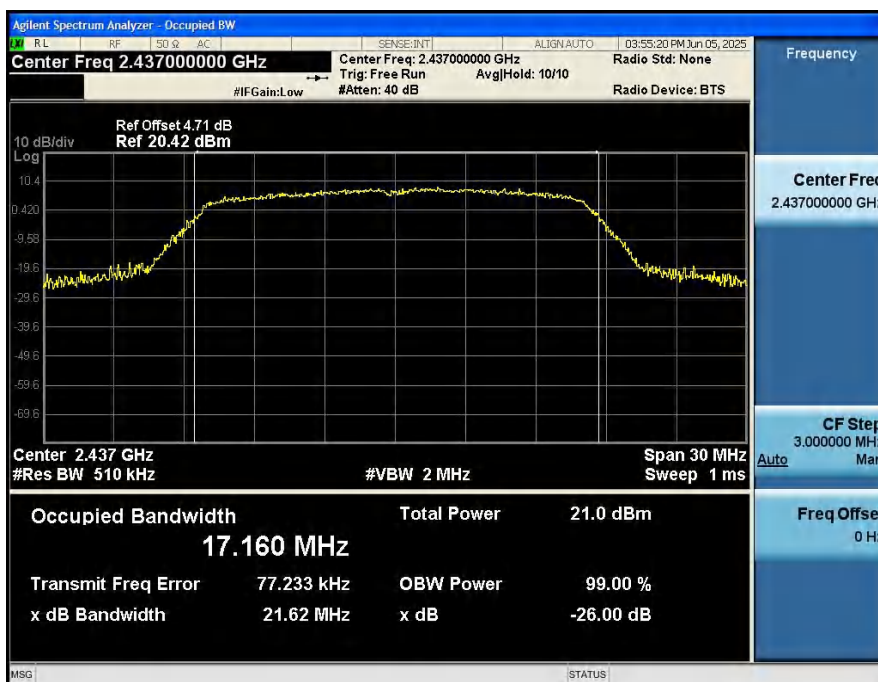


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437

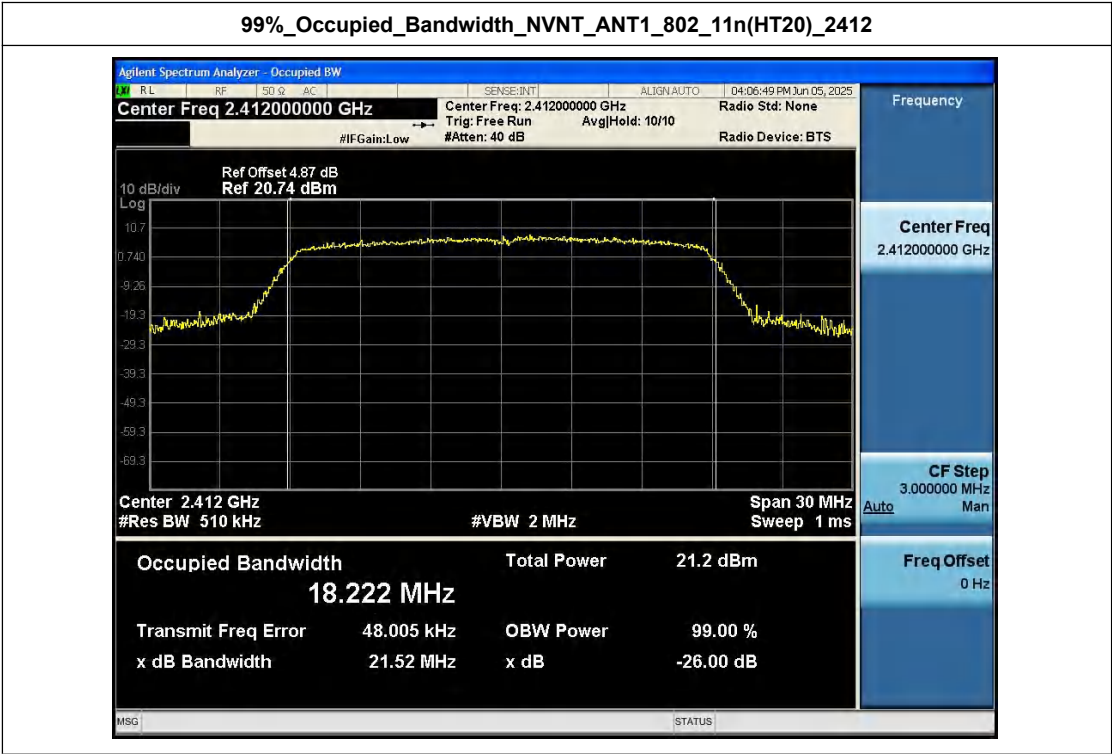
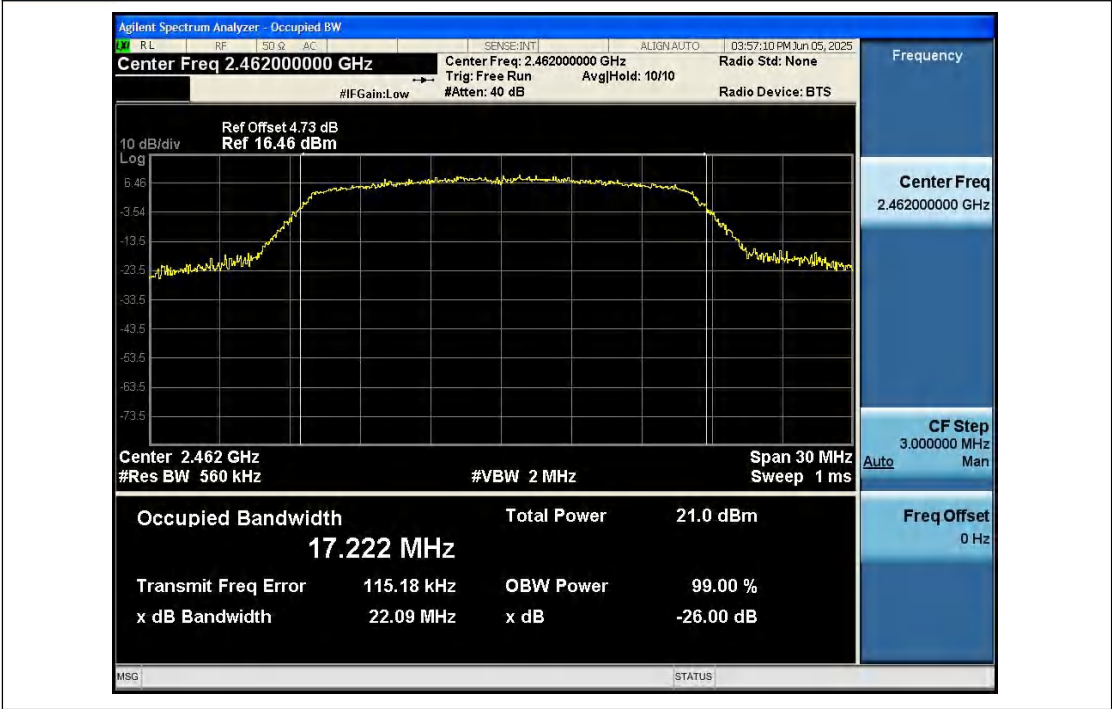


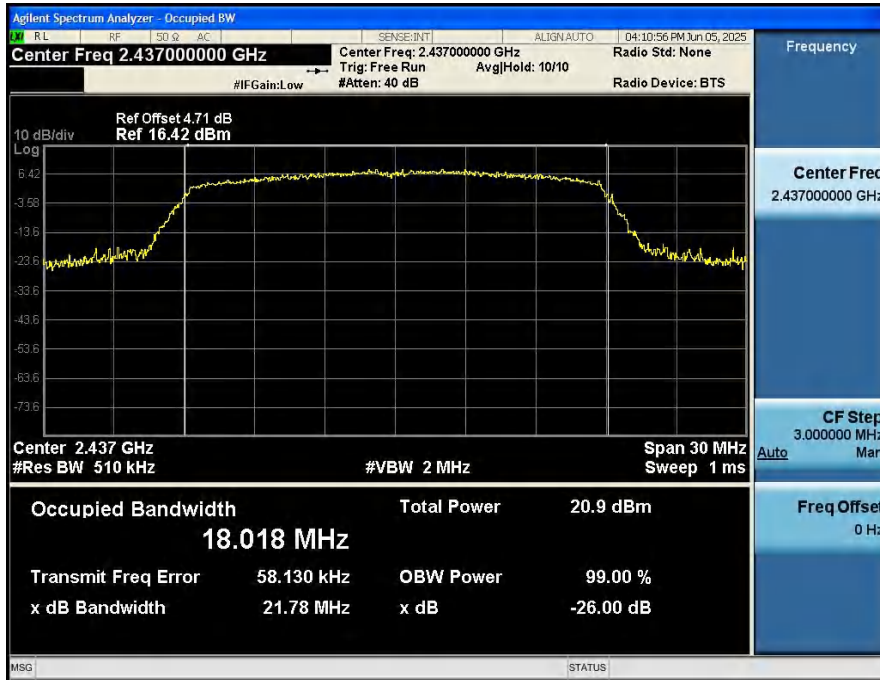


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437

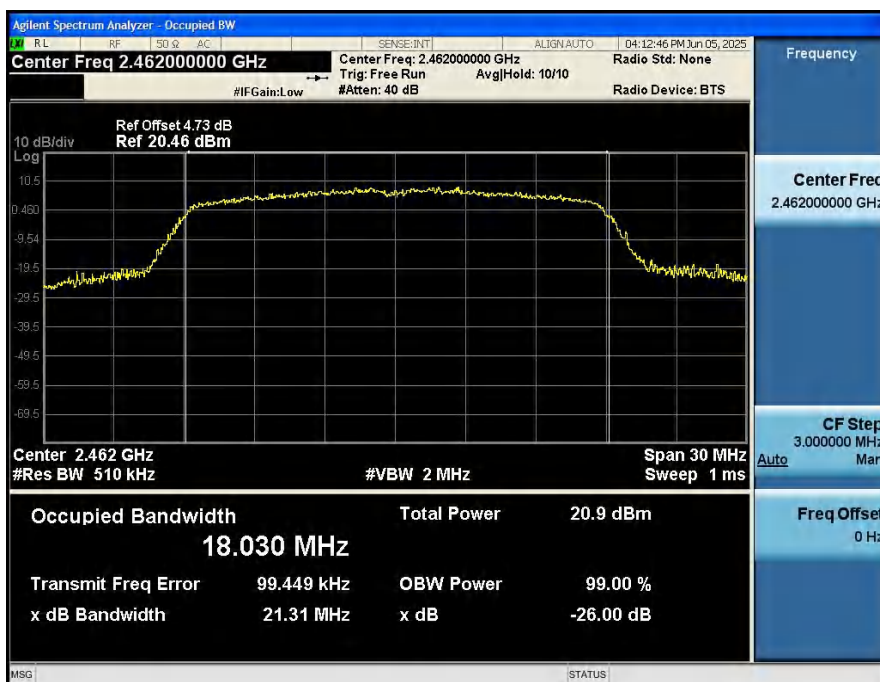


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462





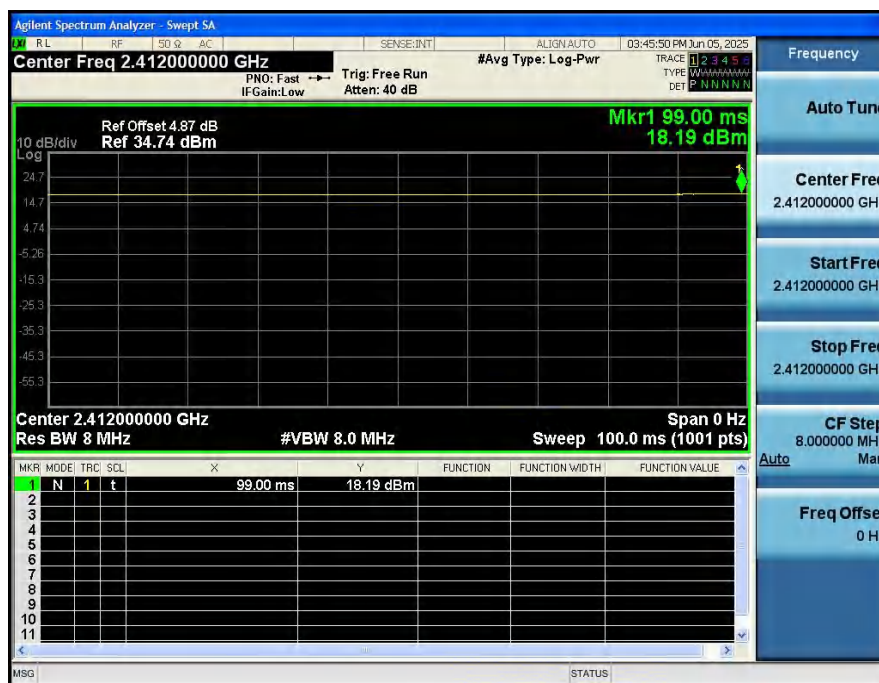
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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

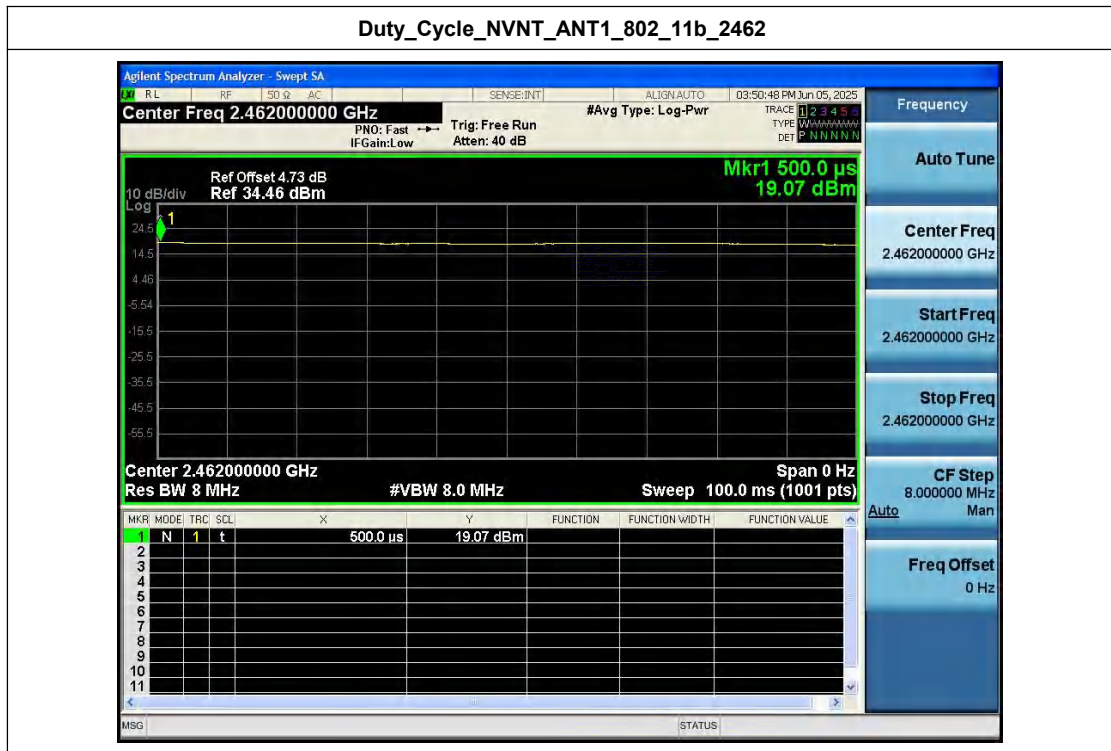
Duty_Cycle_NVNT_ANT1_802_11b_2412



Duty_Cycle_NVNT_ANT1_802_11b_2437



Duty_Cycle_NVNT_ANT1_802_11b_2462

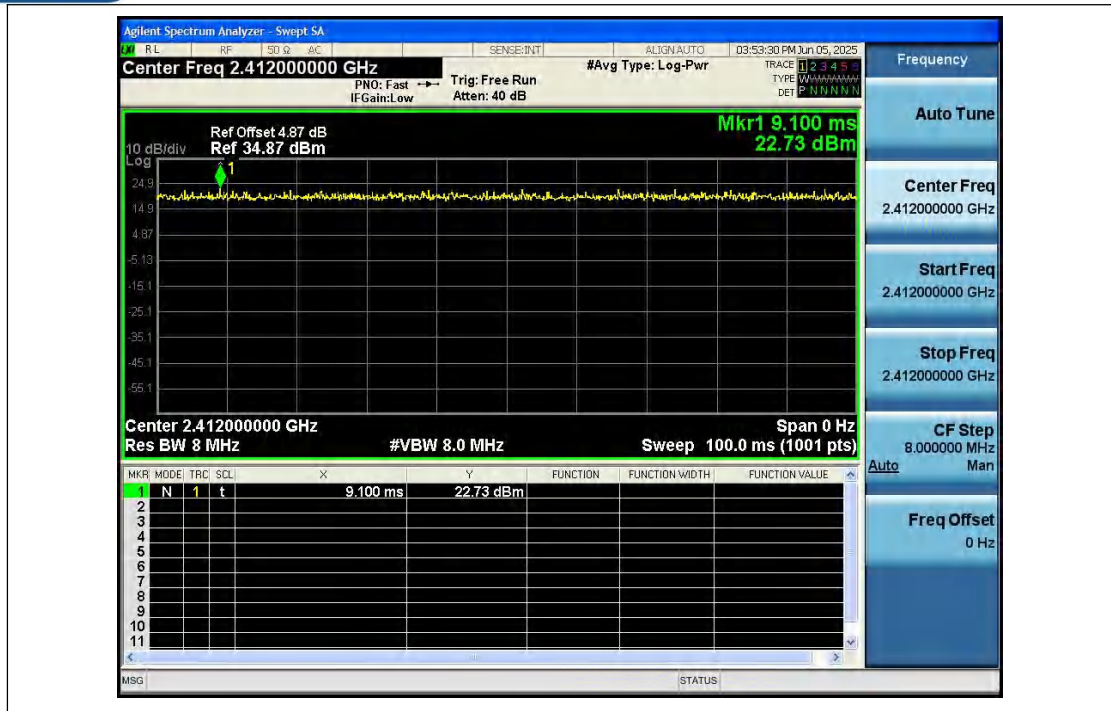


Duty_Cycle_NVNT_ANT1_802_11g_2412

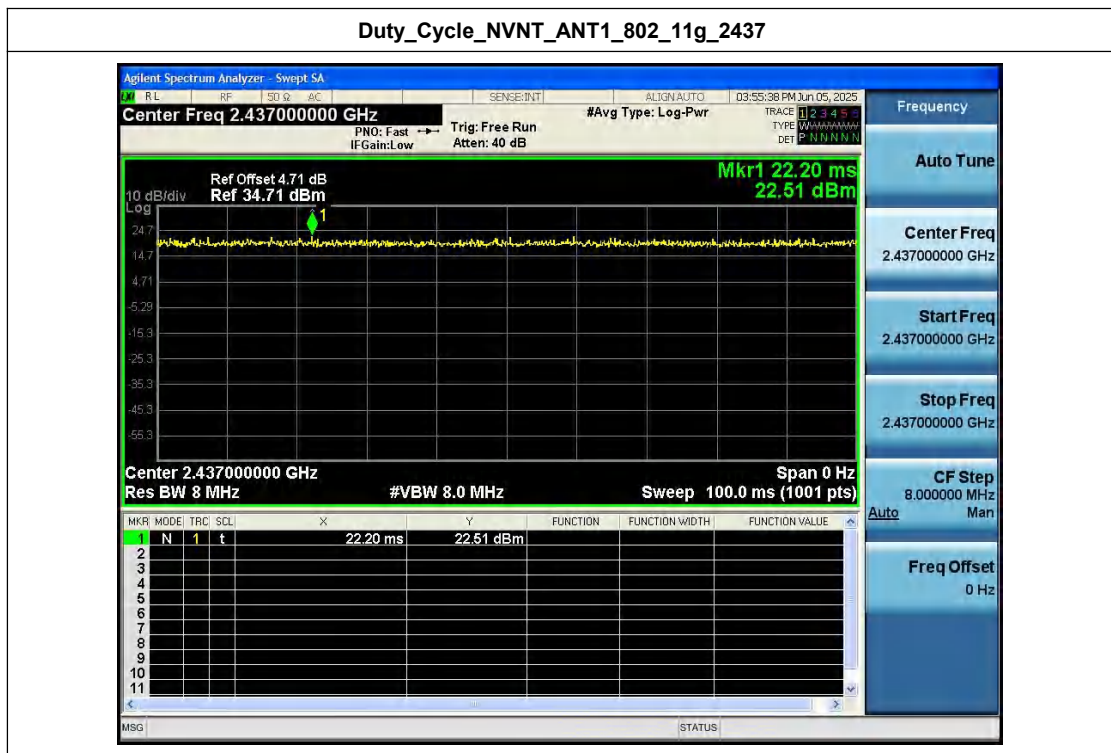
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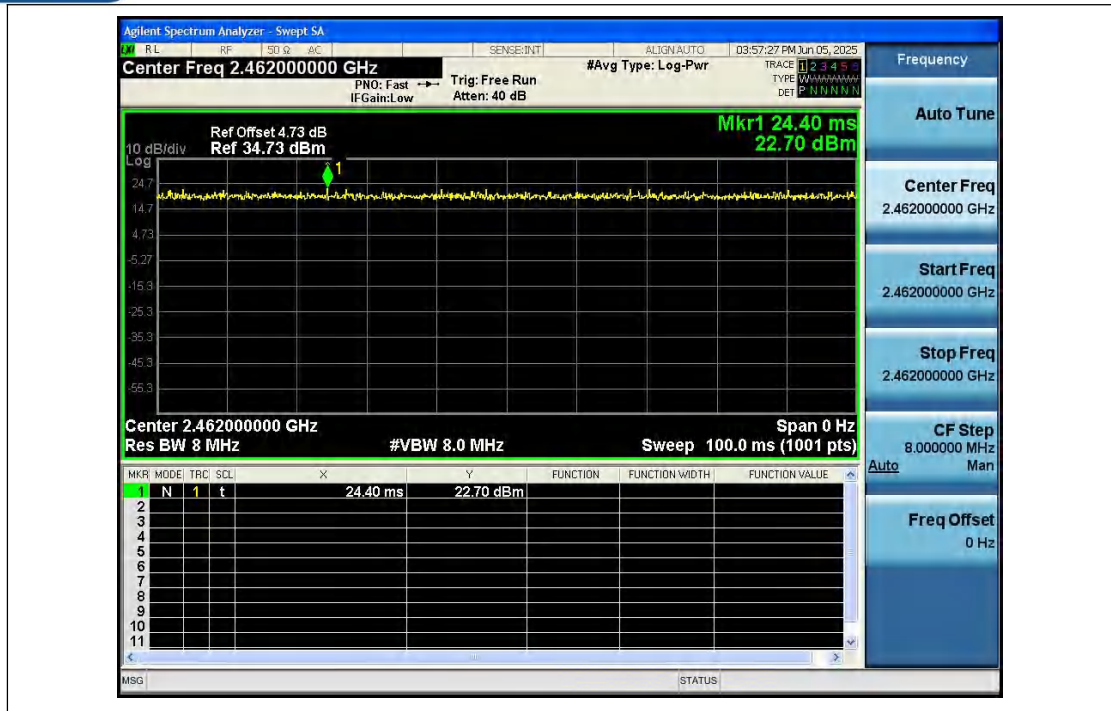
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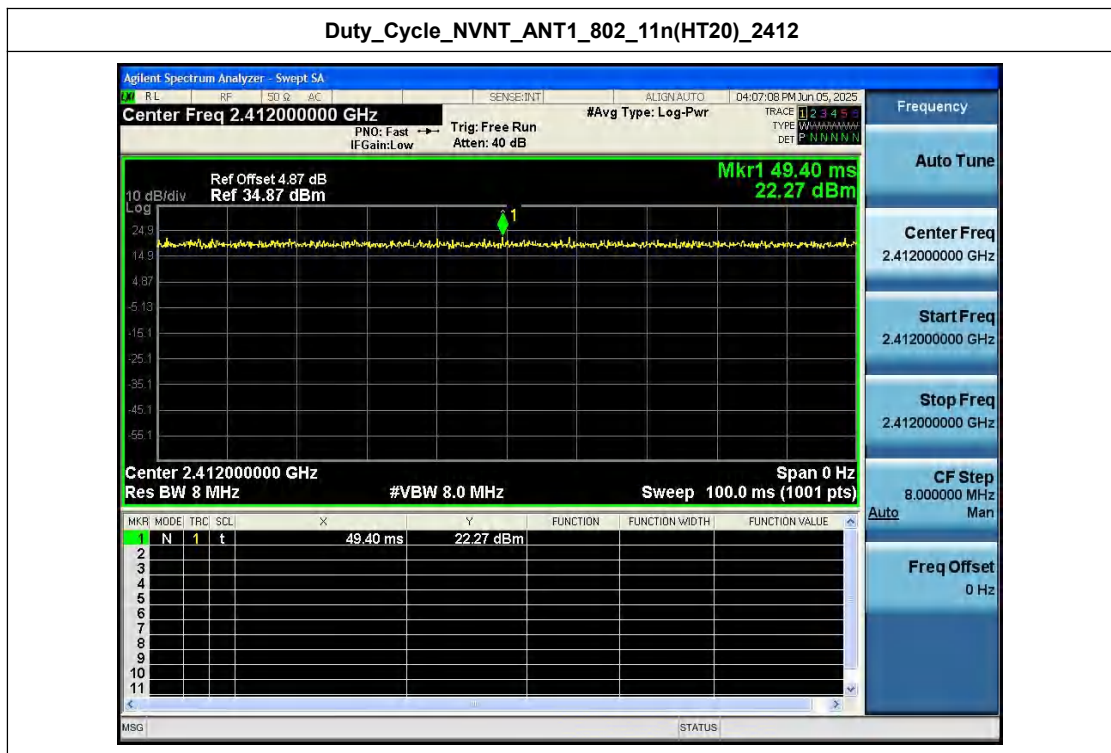
Duty_Cycle_NVNT_ANT1_802_11g_2437



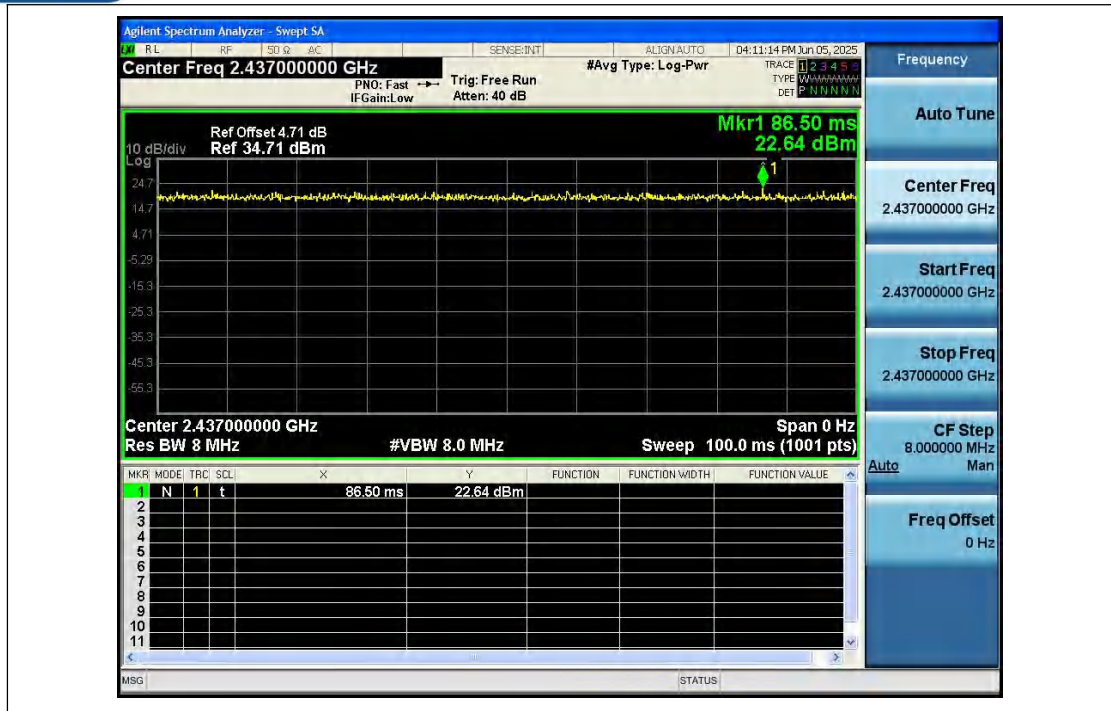
Duty_Cycle_NVNT_ANT1_802_11g_2462



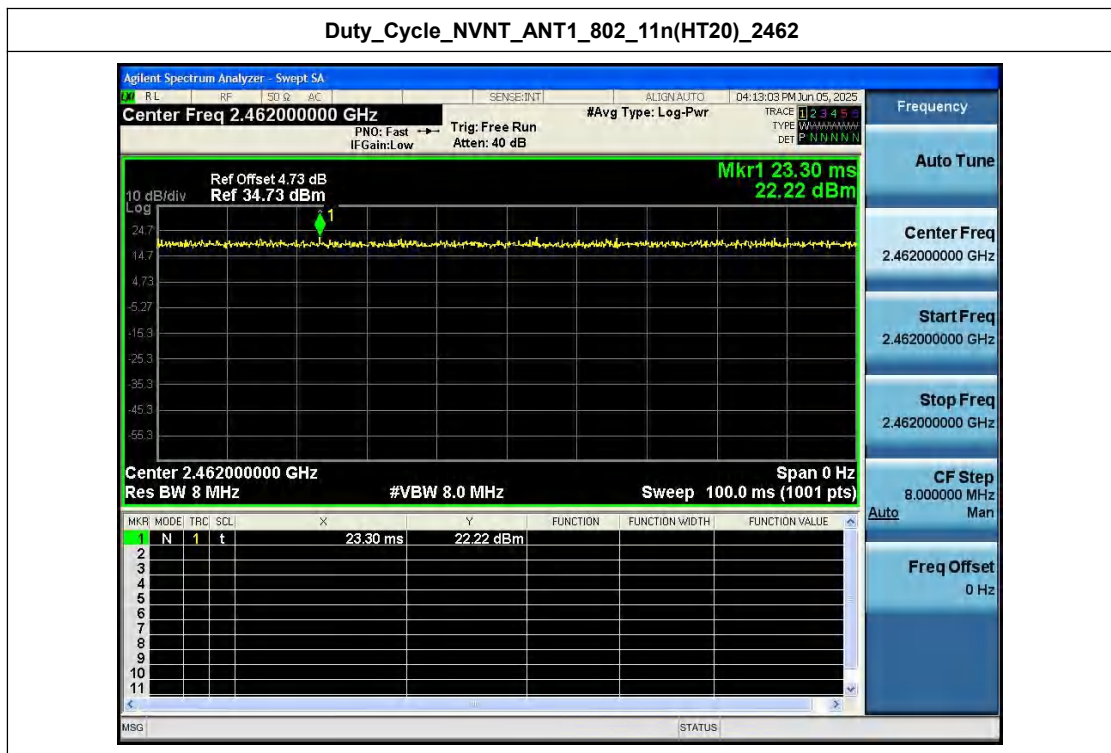
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



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Appendix D: MAX. Output Power

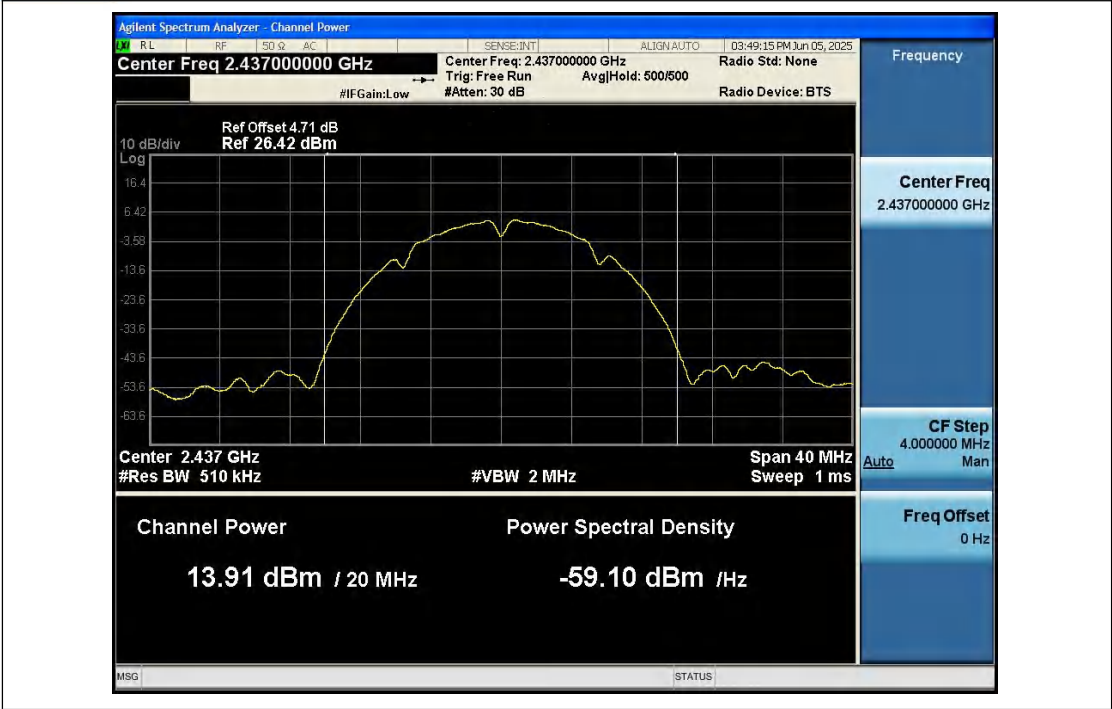
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	14.03	0.00	14.03	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.91	0.00	13.91	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.96	0.00	13.96	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	14.22	0.00	14.22	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.90	0.00	13.90	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	13.96	0.00	13.96	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	14.12	0.00	14.12	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.79	0.00	13.79	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.84	0.00	13.84	30	Pass

MAX__Output_Power_NVNT_ANT1_802_11b_2412

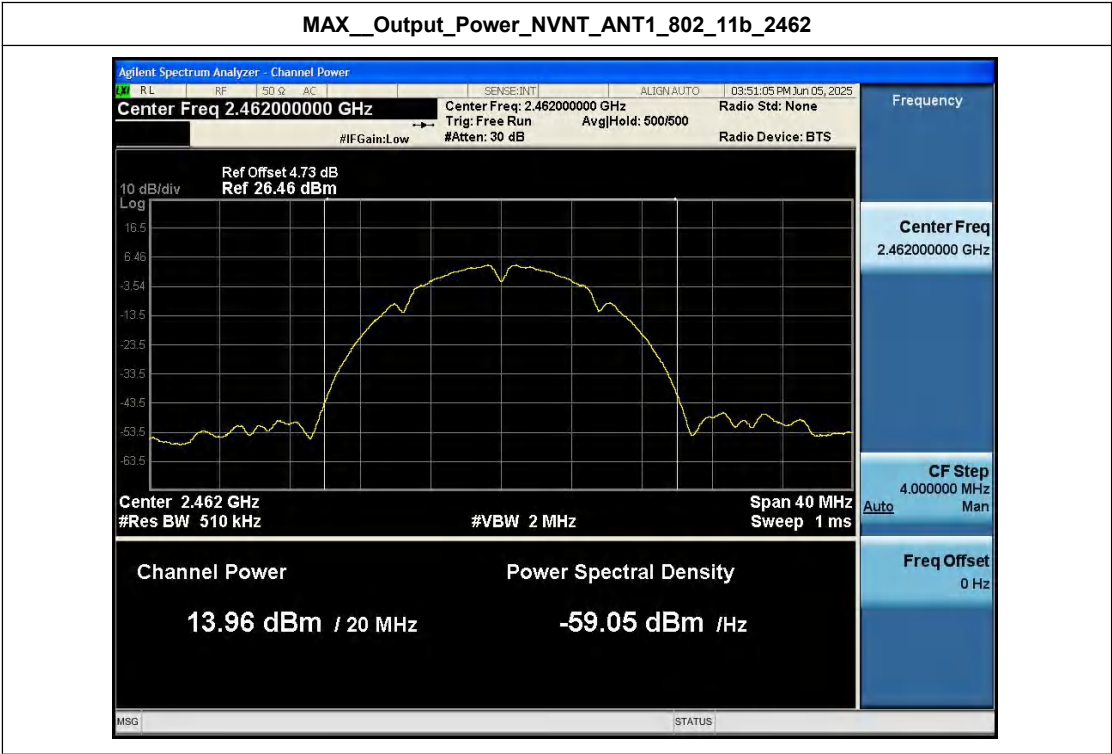


MAX__Output_Power_NVNT_ANT1_802_11b_2437

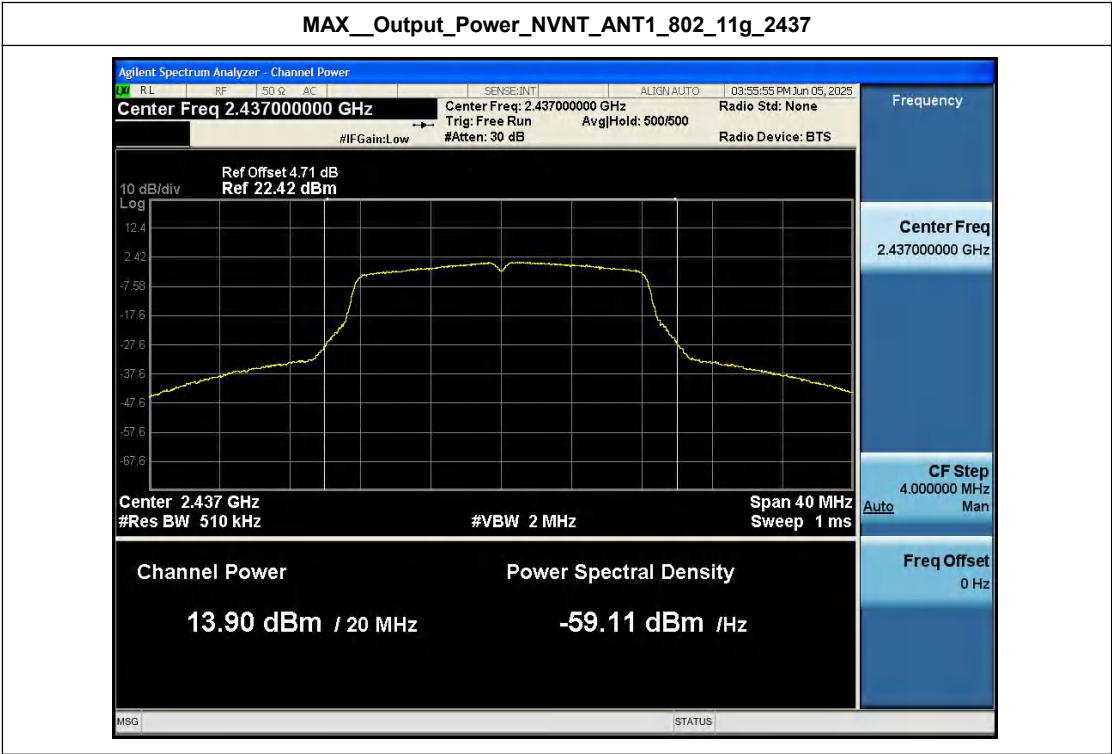
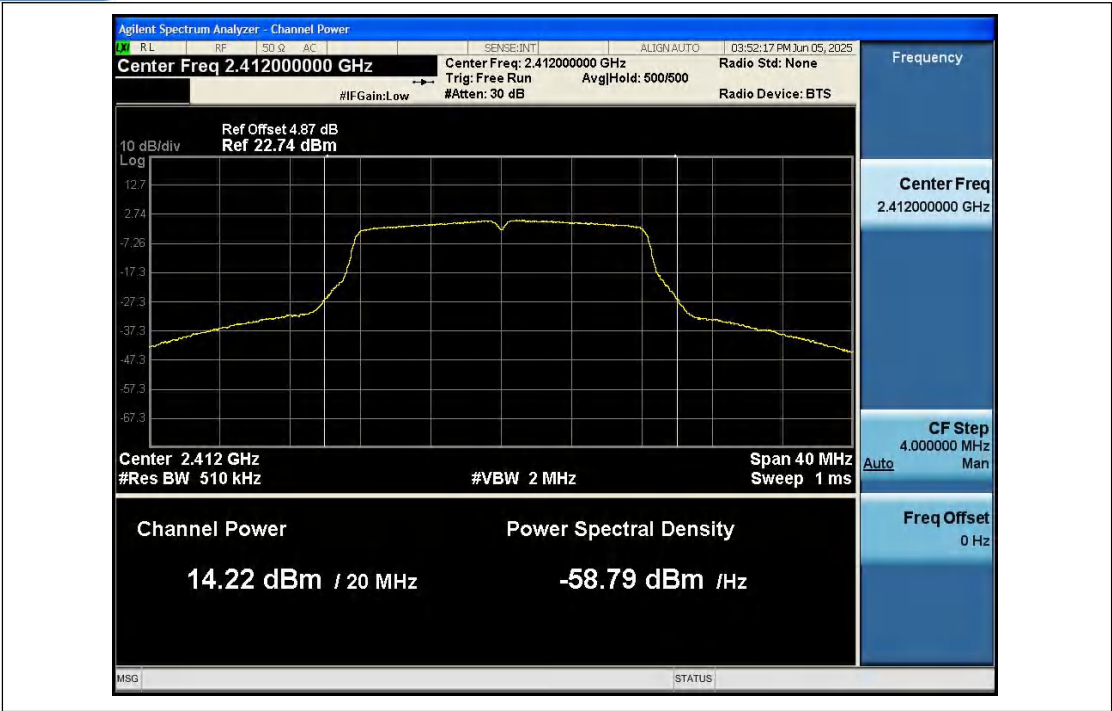




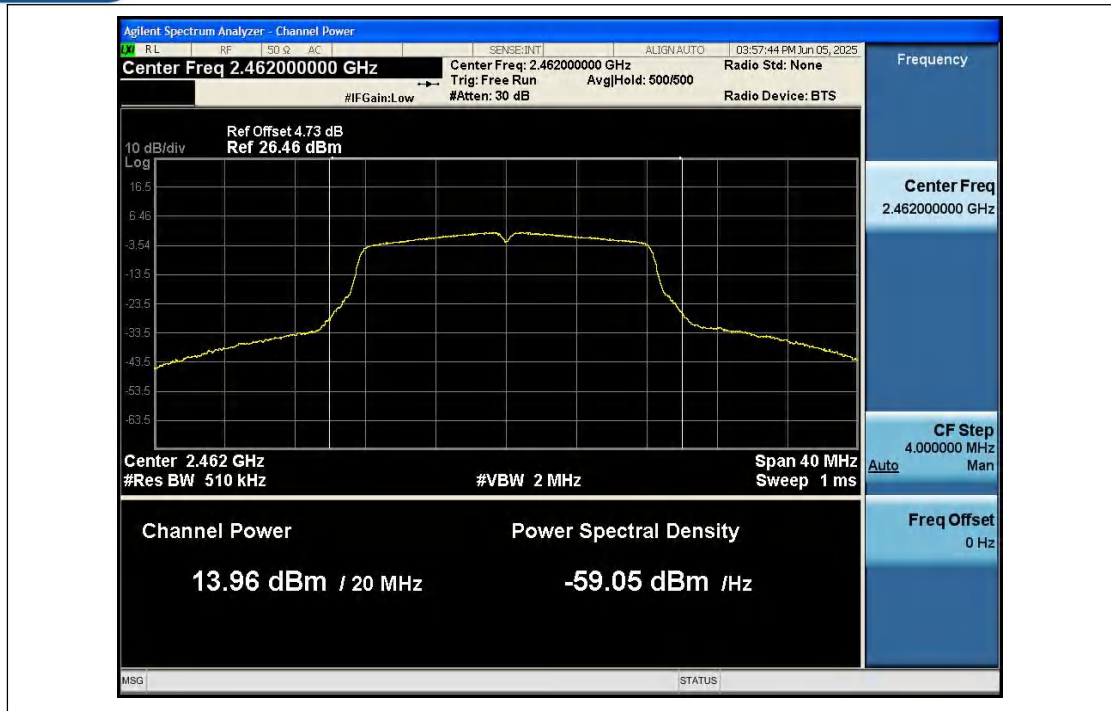
MAX__Output_Power_NVNT_ANT1_802_11b_2462



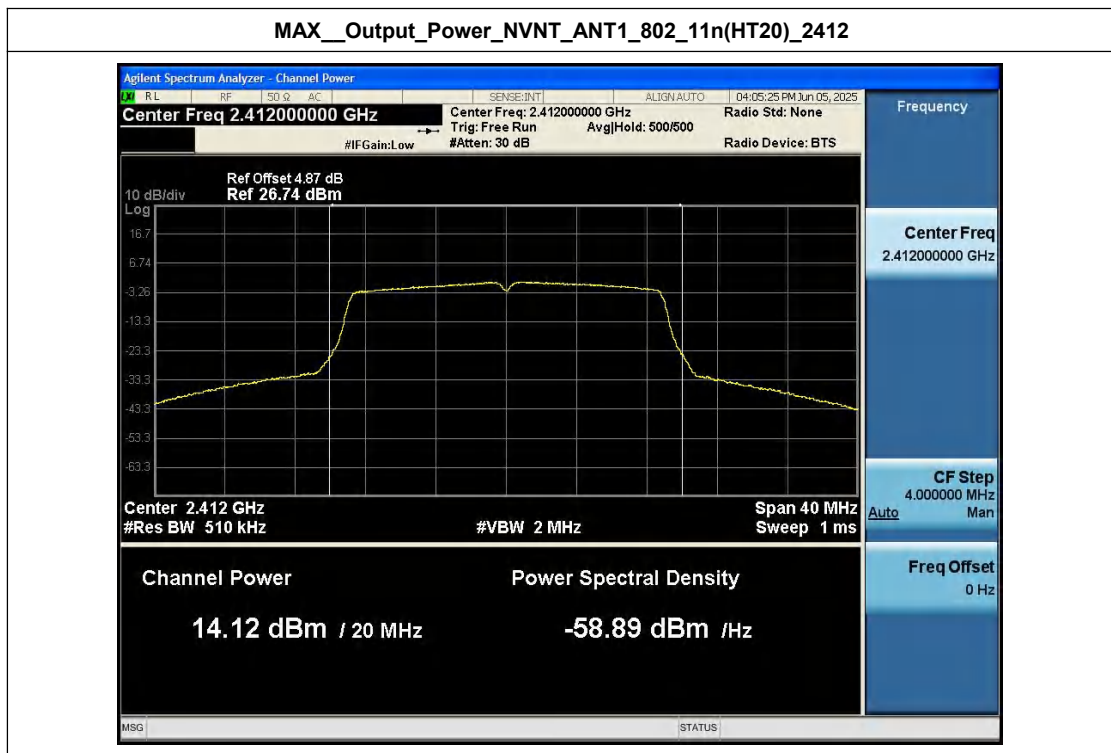
MAX__Output_Power_NVNT_ANT1_802_11g_2412



MAX__Output_Power_NVNT_ANT1_802_11g_2462



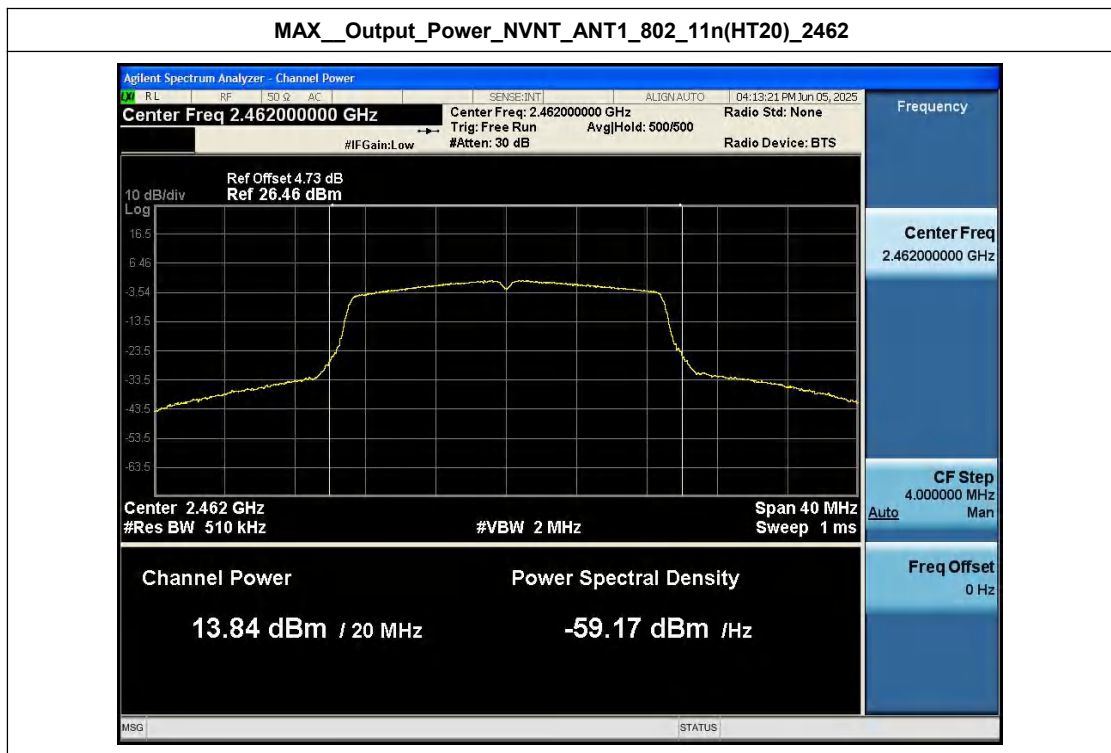
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



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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/30kHz)	limit(dBm/30kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.91	0.00	-10.00	-8.09	8	Pass
NVNT	ANT1	802.11b	2437.00	1.34	0.00	-10.00	-8.66	8	Pass
NVNT	ANT1	802.11b	2462.00	2.06	0.00	-10.00	-7.94	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.50	0.00	-10.00	-11.50	8	Pass
NVNT	ANT1	802.11g	2437.00	-2.09	0.00	-10.00	-12.09	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.31	0.00	-10.00	-11.31	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.77	0.00	-10.00	-11.78	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.68	0.00	-10.00	-11.68	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.95	0.00	-10.00	-11.95	8	Pass

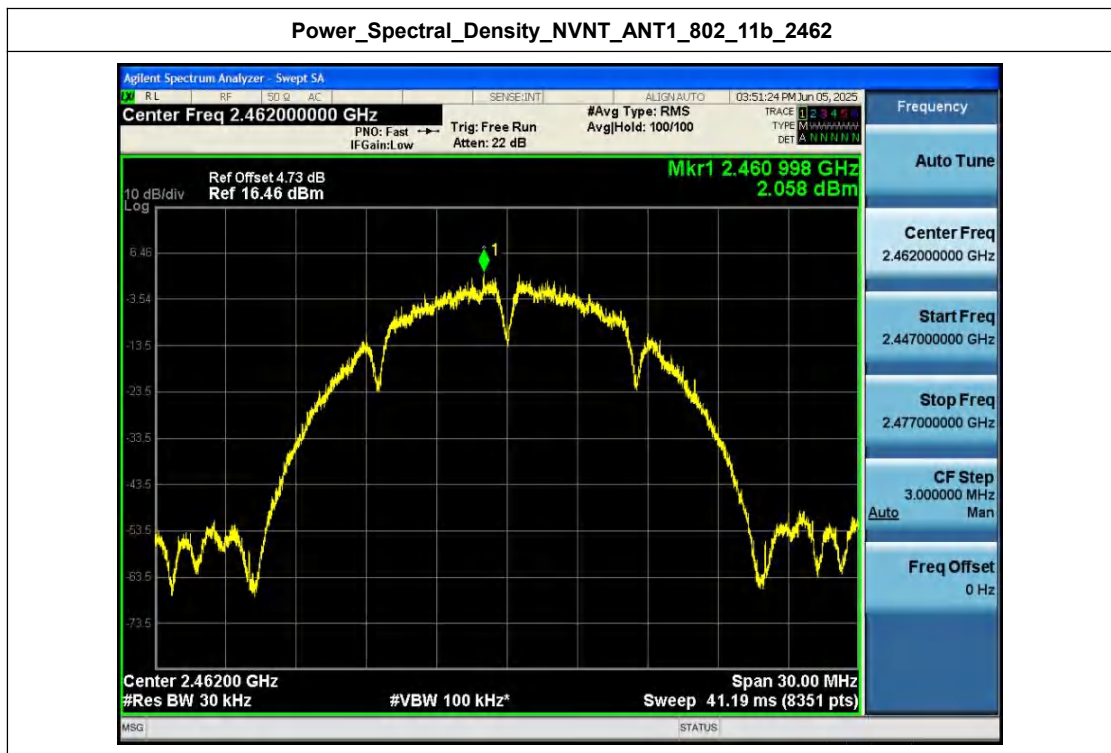
Power_Spectral_Density_NVNT_ANT1_802_11b_2412



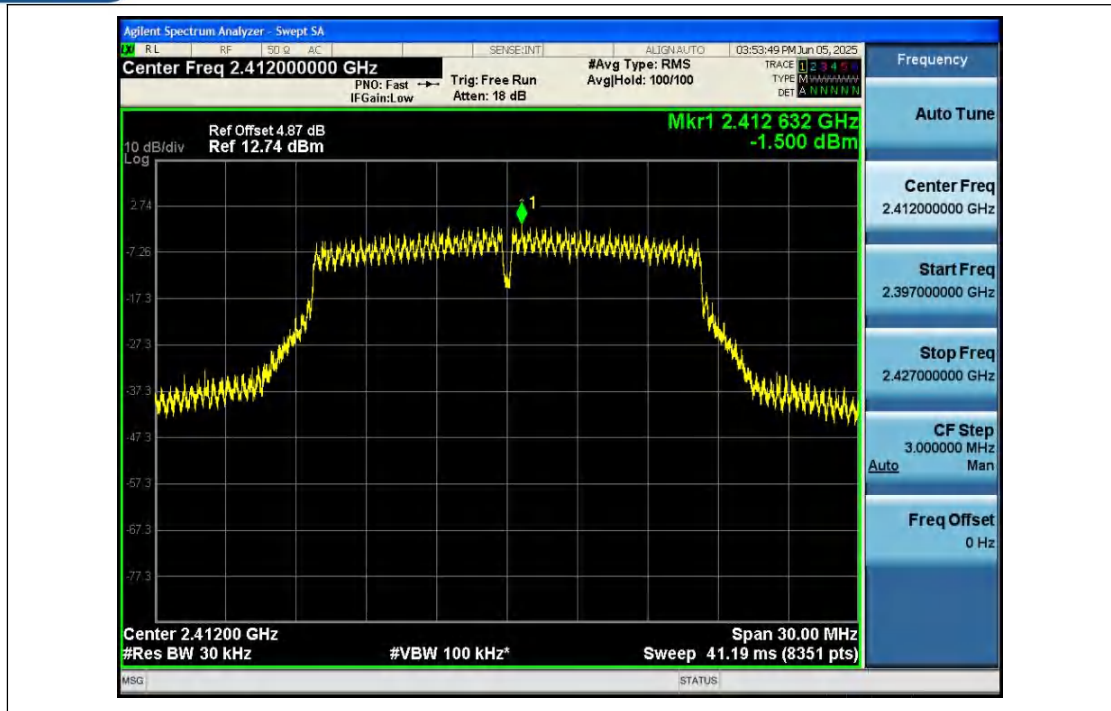
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



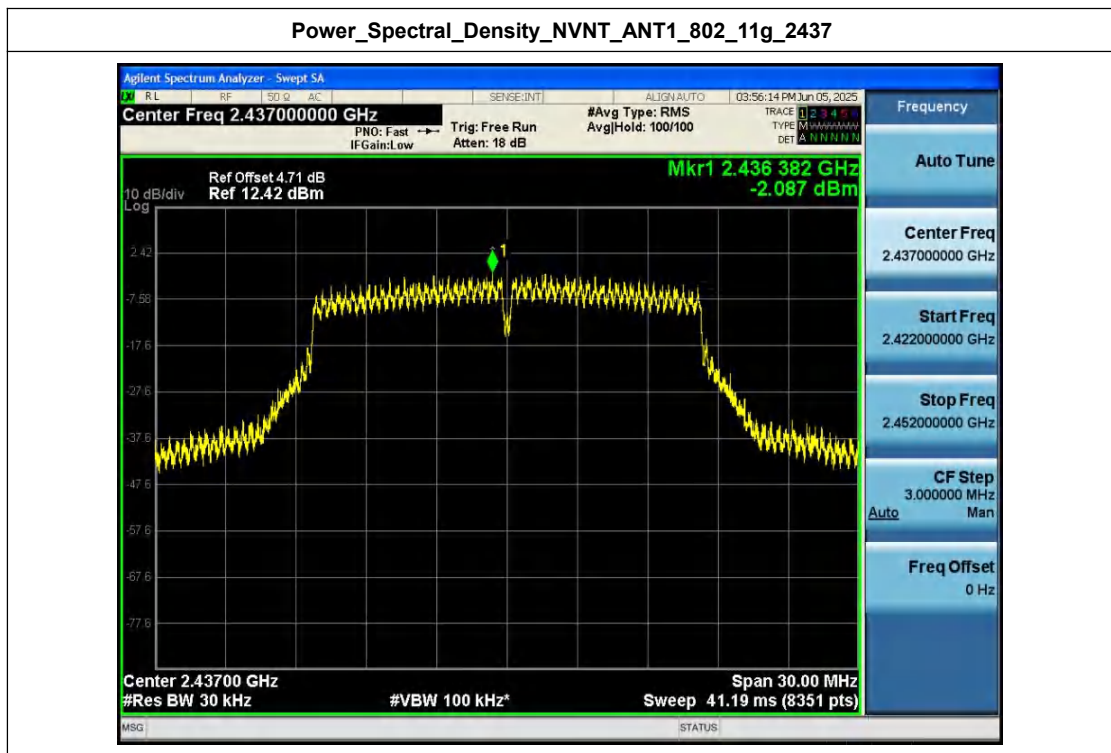
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



Power_Spectral_Density_NVNT_ANT1_802_11g_2412

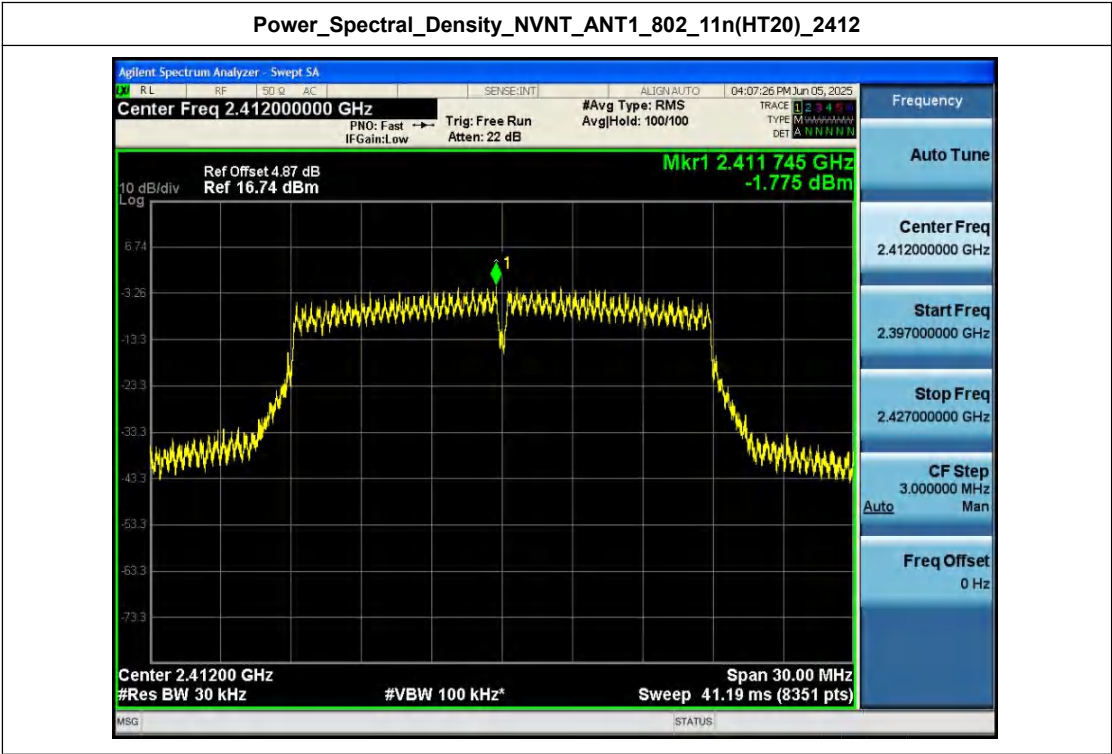
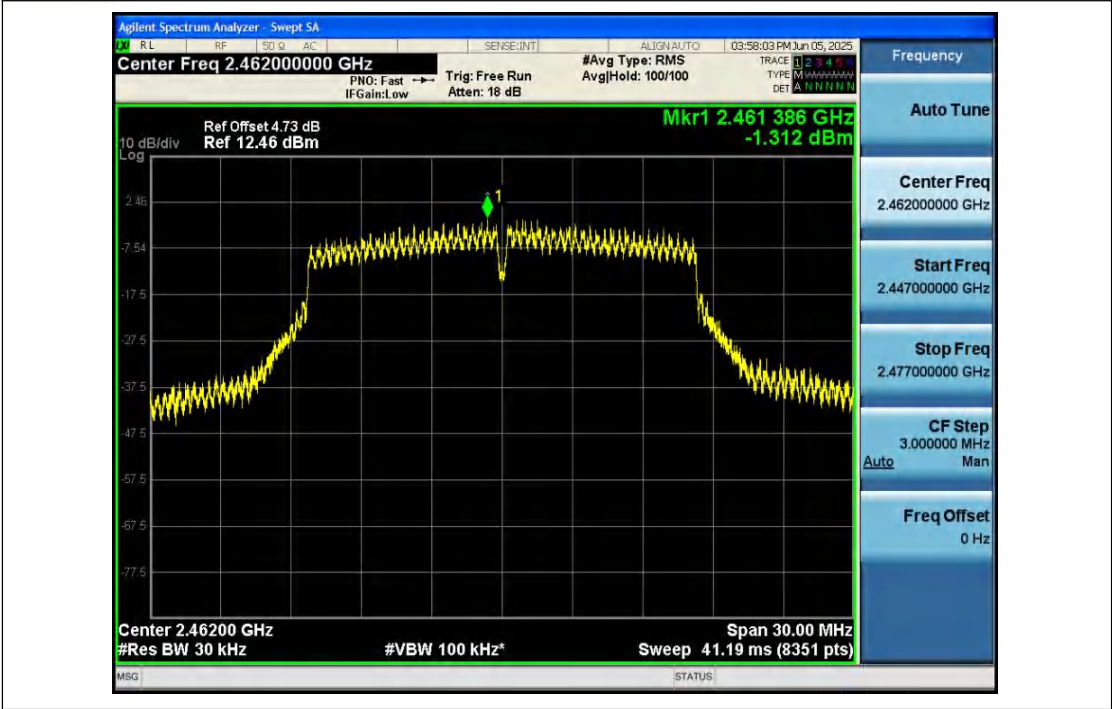


Power_Spectral_Density_NVNT_ANT1_802_11g_2437



Power_Spectral_Density_NVNT_ANT1_802_11g_2462





Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_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	2399.488	5.891	-43.928	-24.109	Pass
NVNT	ANT1	802.11b	2462.00	2487.856	5.846	-52.221	-24.154	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-2.453	-37.355	-32.453	Pass
NVNT	ANT1	802.11g	2462.00	2483.824	1.182	-41.417	-28.818	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-2.592	-38.200	-32.592	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.784	0.678	-40.448	-29.322	Pass

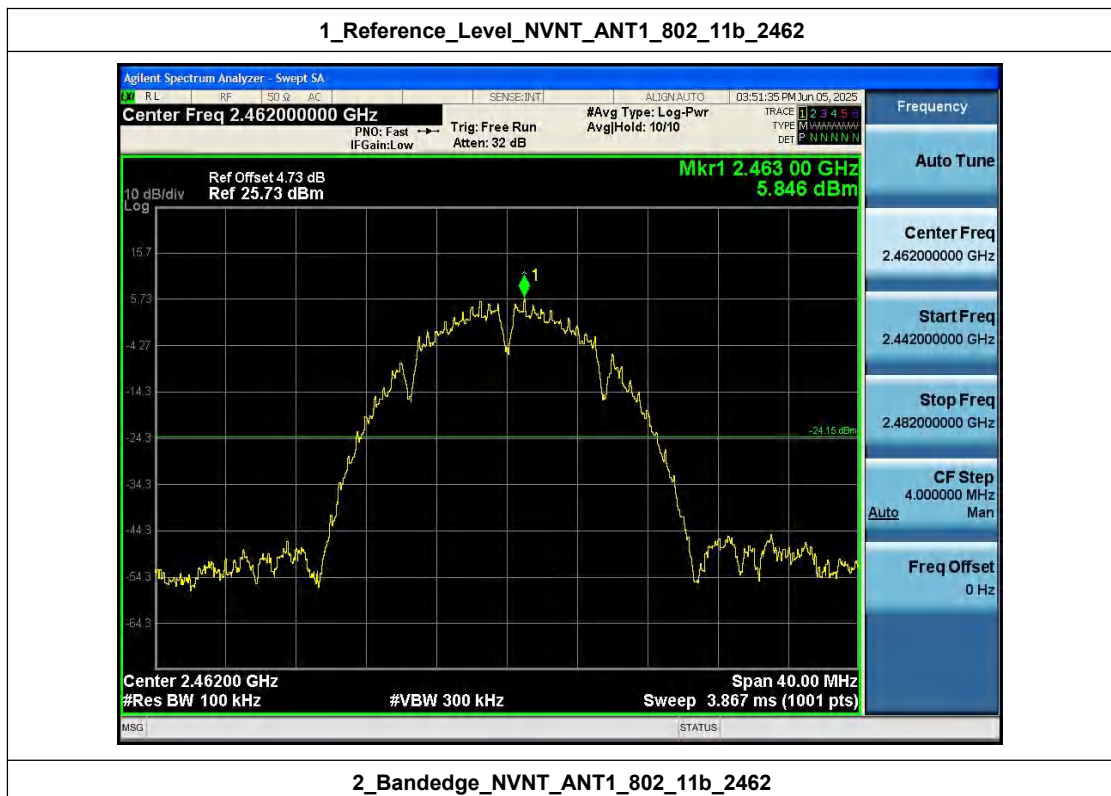
1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



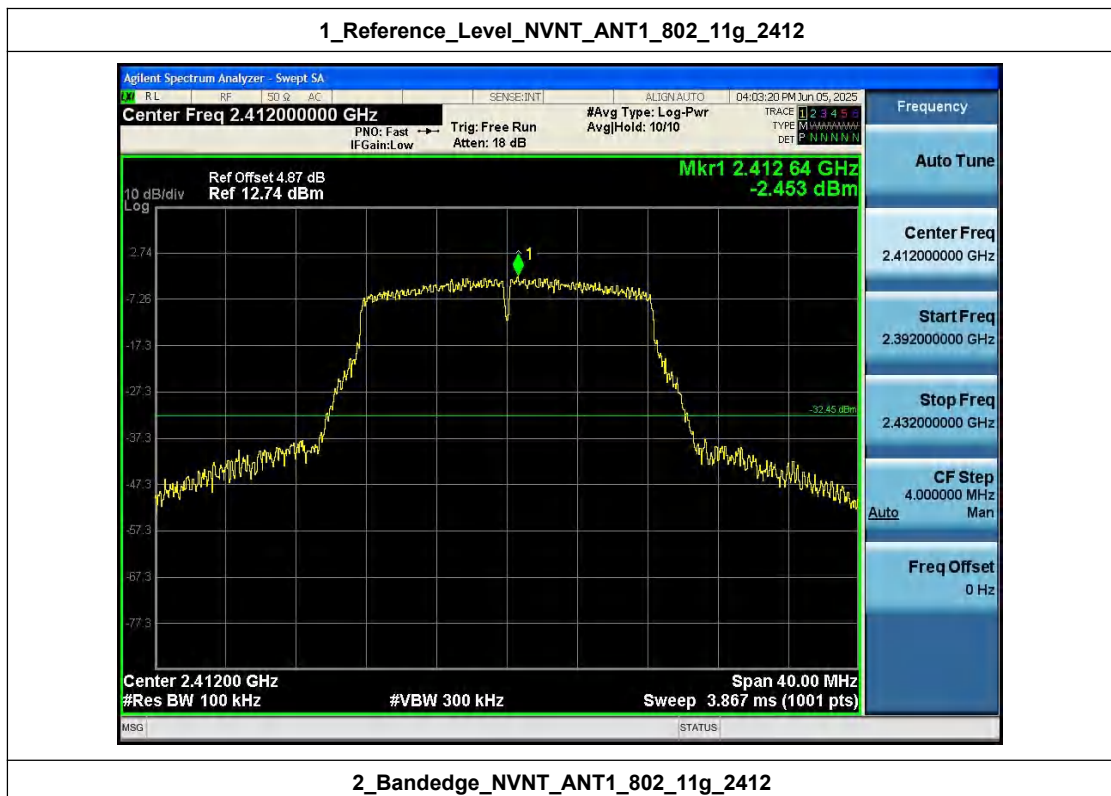
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2_Bandedge_NVNT_ANT1_802_11b_2462



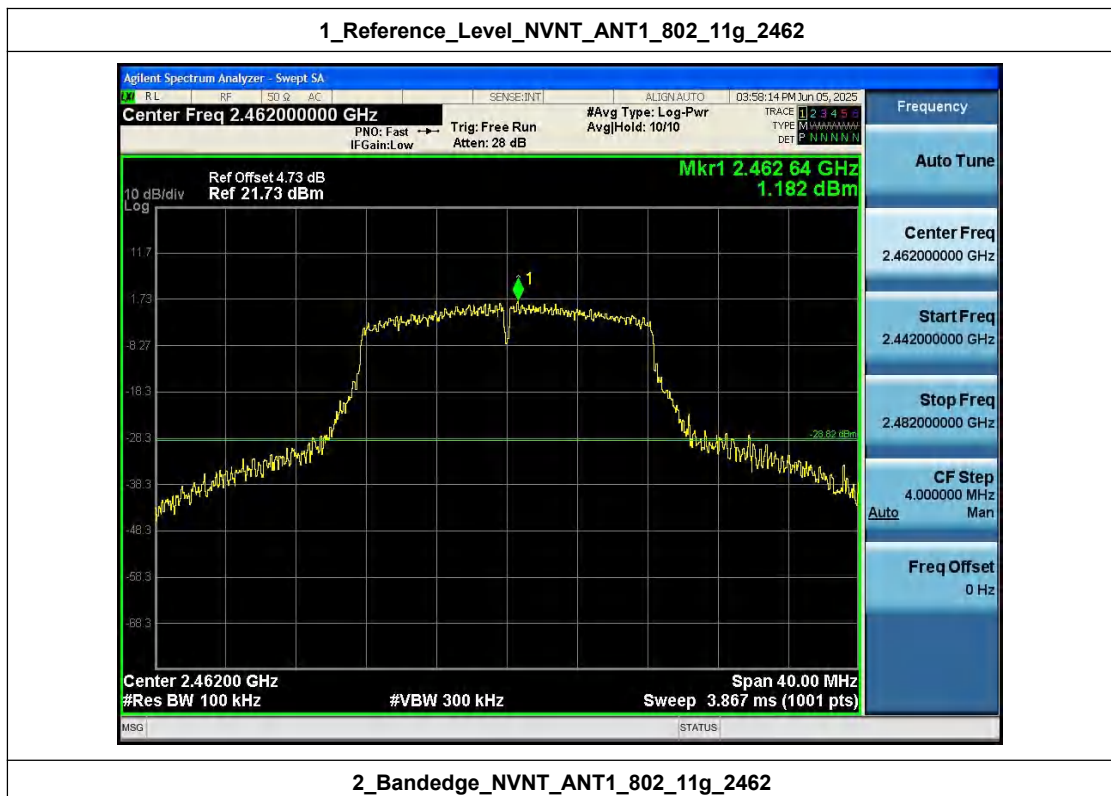
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2_Bandedge_NVNT_ANT1_802_11g_2412



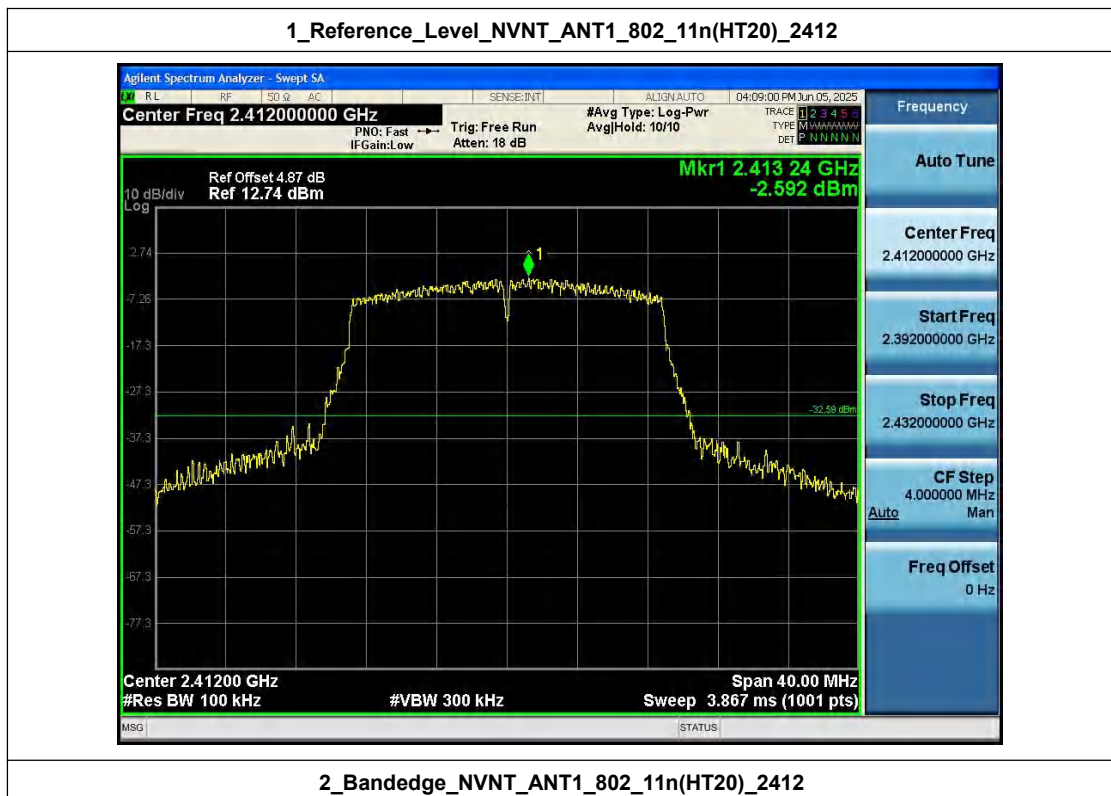
1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



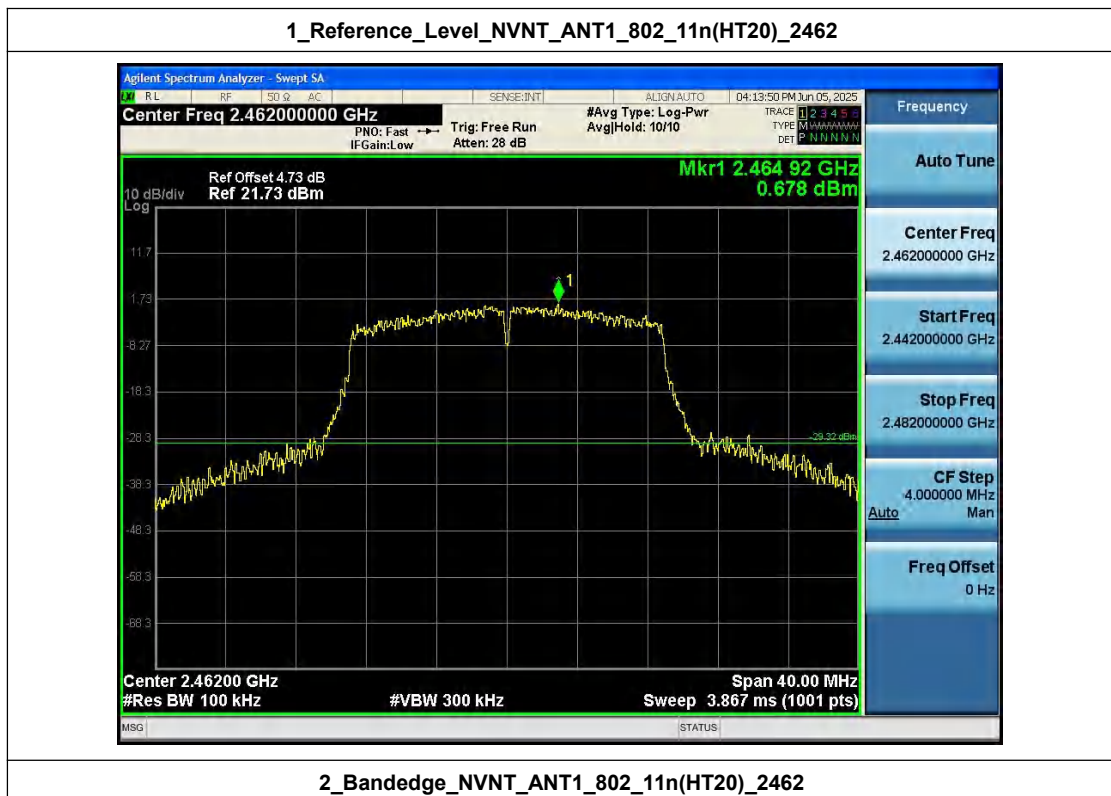
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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	24767.779	9.159	-45.890	-20.841	Pass
NVNT	ANT1	802.11b	2437.00	24812.725	10.155	-38.507	-19.845	Pass
NVNT	ANT1	802.11b	2462.00	24802.737	9.725	-46.073	-20.275	Pass
NVNT	ANT1	802.11g	2412.00	24900.120	4.768	-46.184	-25.232	Pass
NVNT	ANT1	802.11g	2437.00	24800.240	0.033	-47.793	-29.967	Pass
NVNT	ANT1	802.11g	2462.00	24827.707	-0.498	-47.638	-30.498	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24792.749	-0.701	-44.691	-30.701	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24815.222	4.416	-45.595	-25.584	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24872.653	0.031	-48.052	-29.969	Pass

Note:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

1_Reference_Level_NVNT_ANT1_802_11b_2412

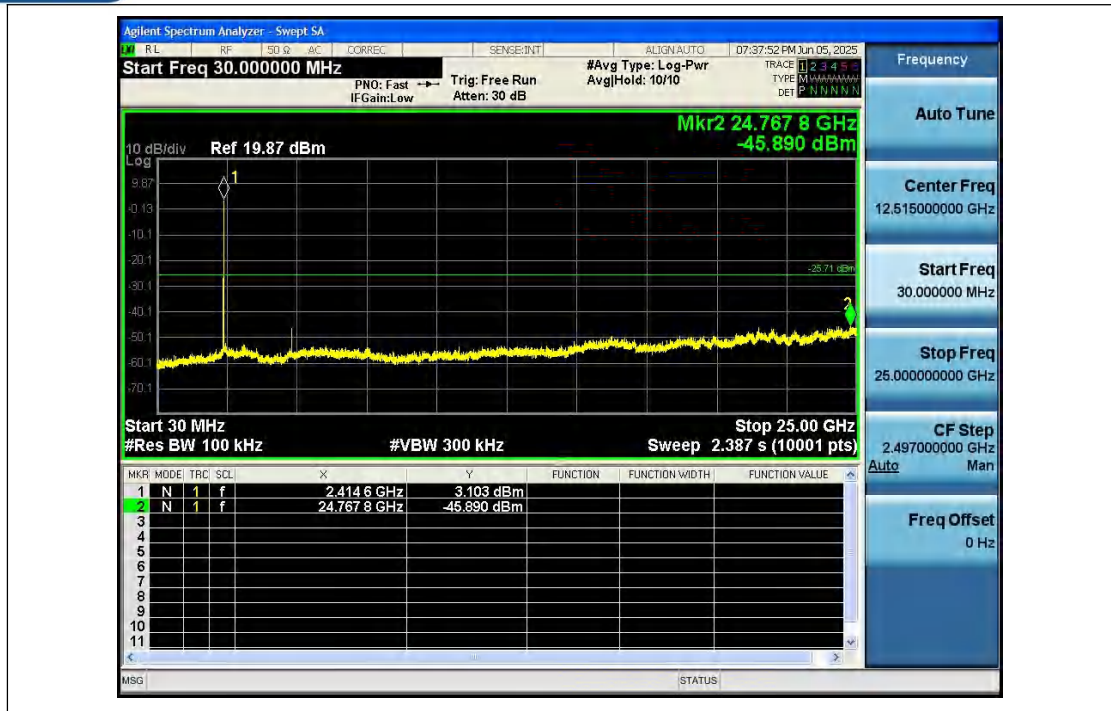


2_Spurious_Emission_NVNT_ANT1_802_11b_2412

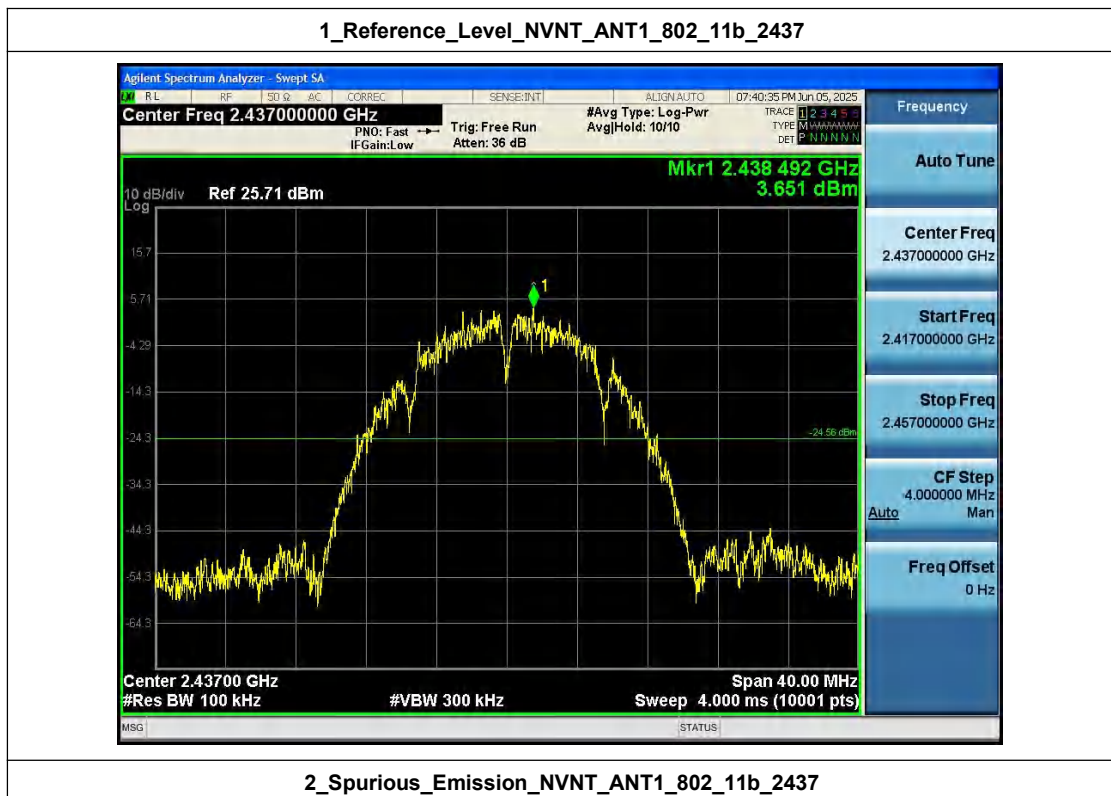
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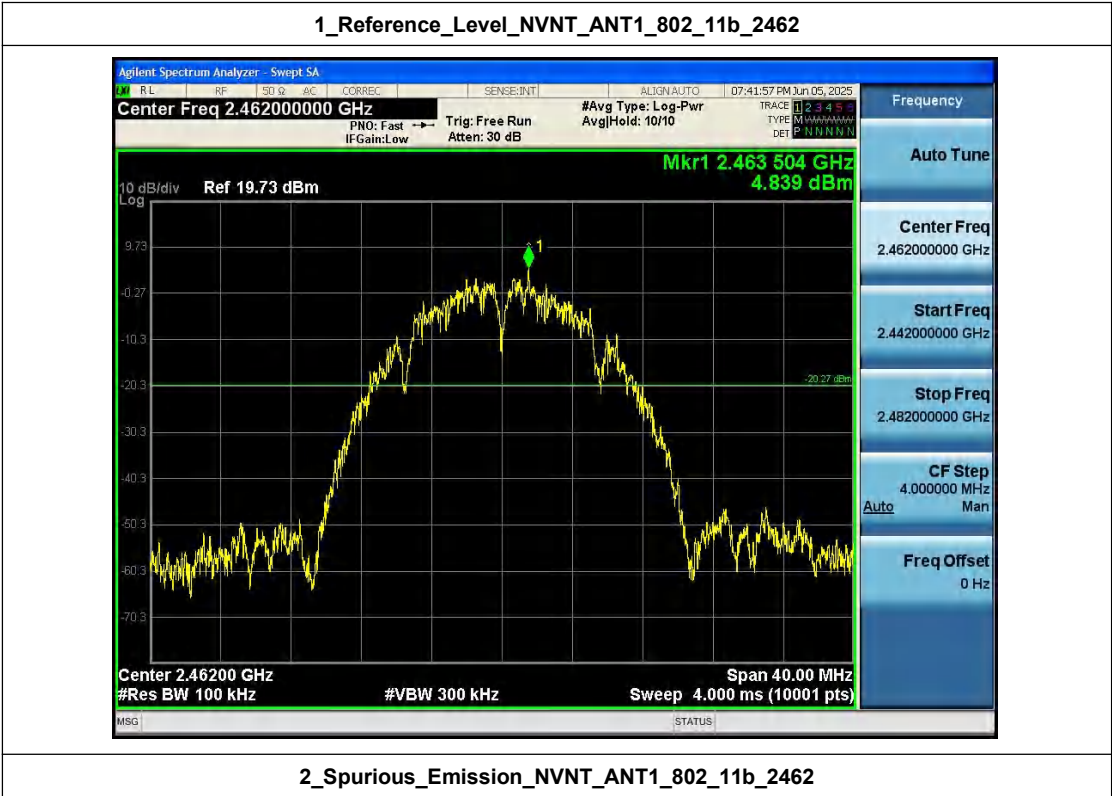
1_Reference_Level_NVNT_ANT1_802_11b_2437



2_Spurious_Emission_NVNT_ANT1_802_11b_2437



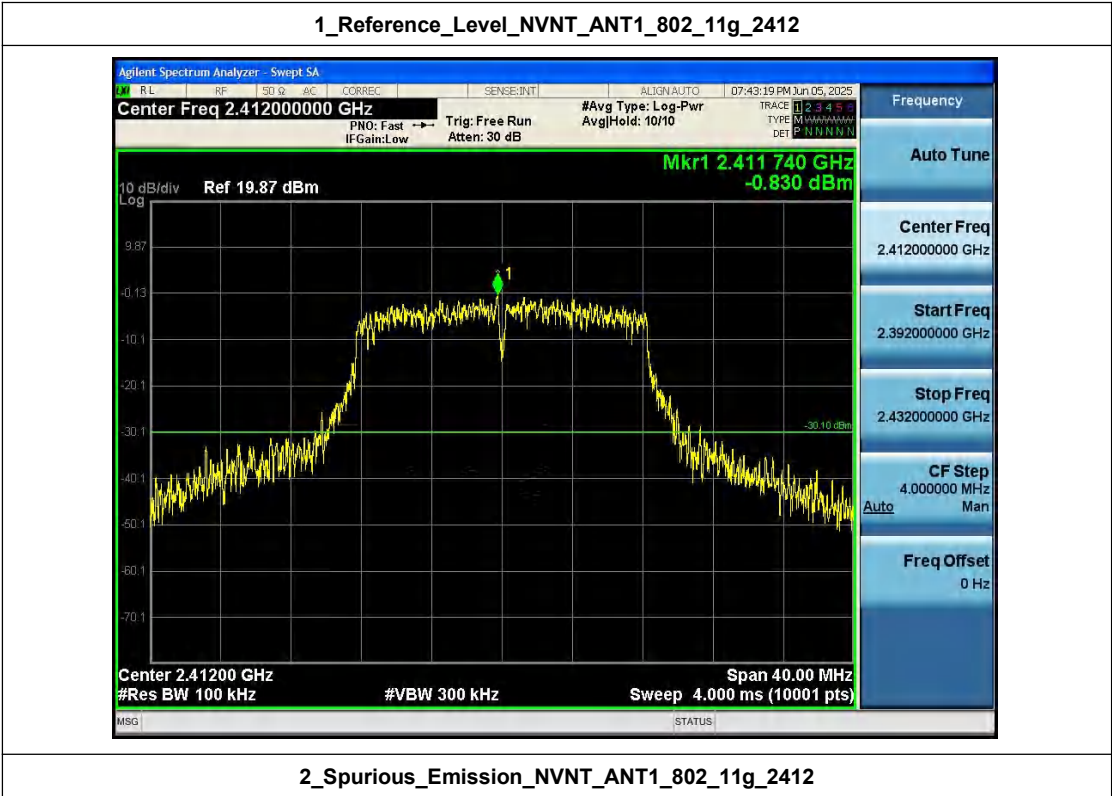
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2_Spurious_Emission_NVNT_ANT1_802_11b_2462



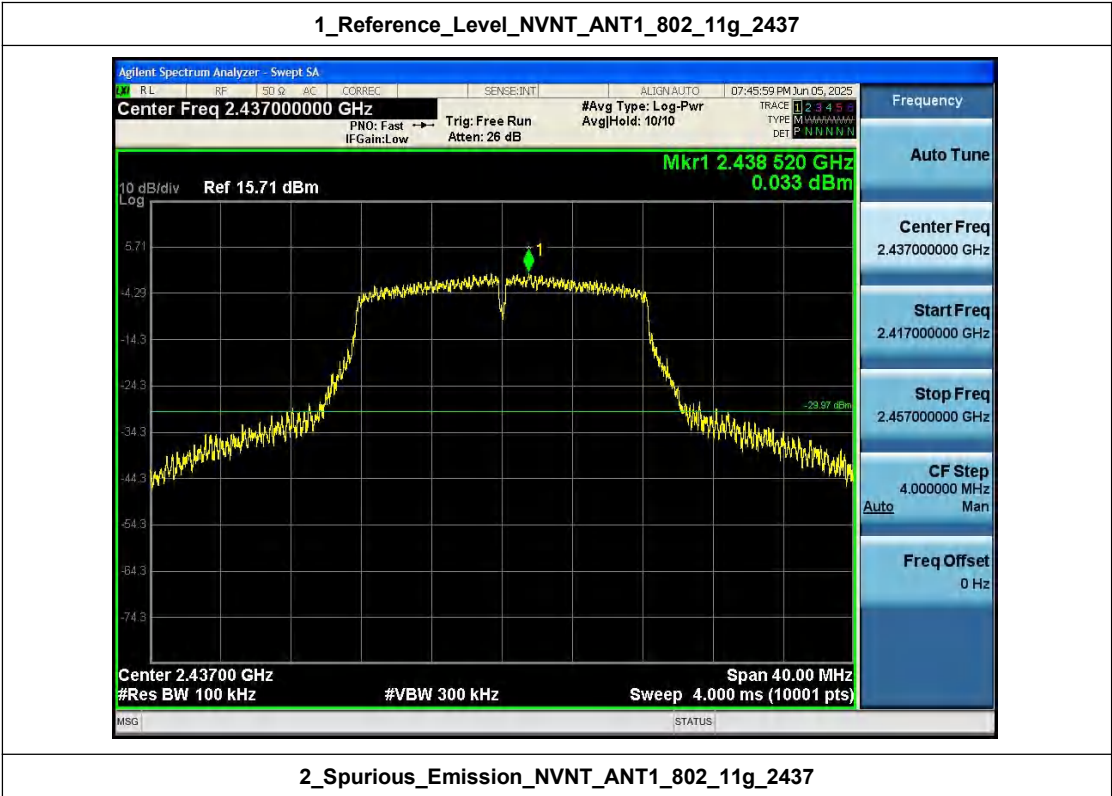
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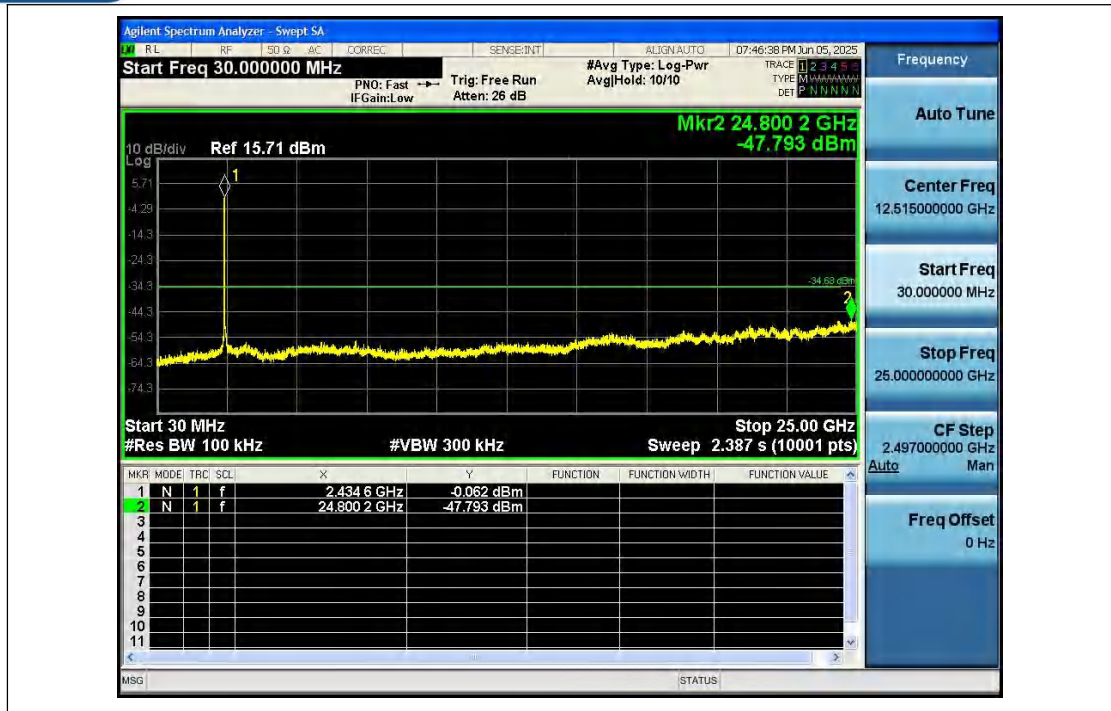
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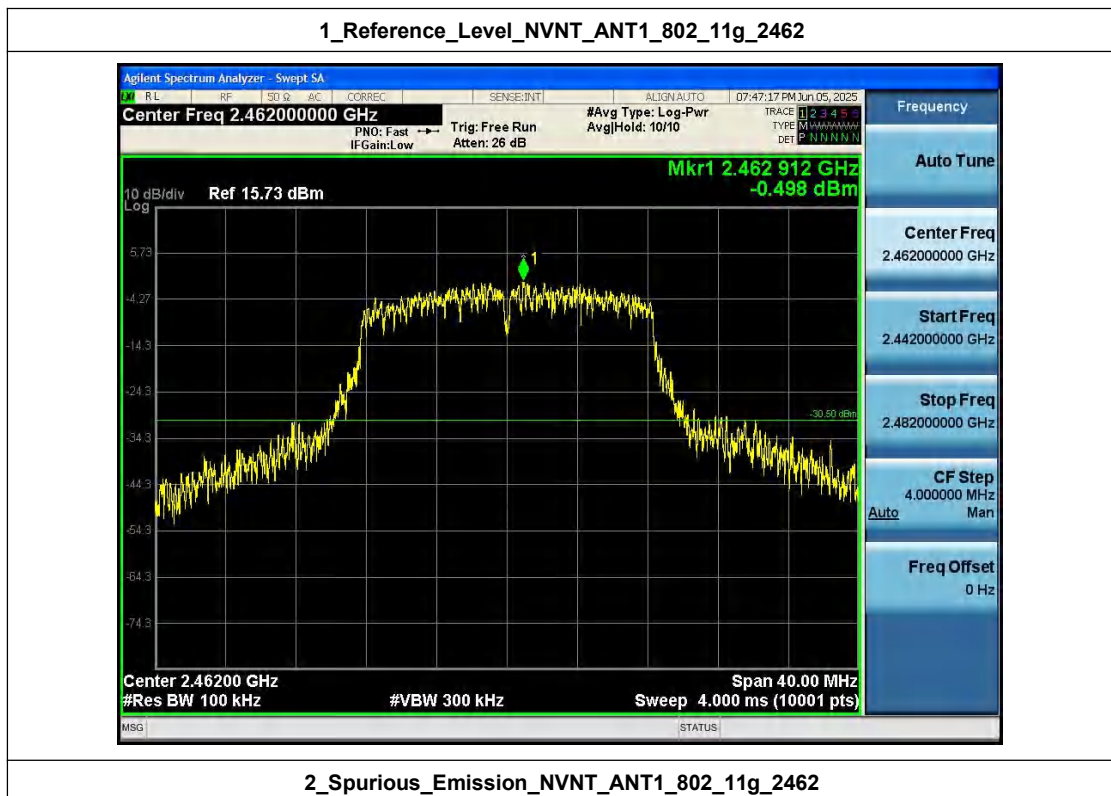
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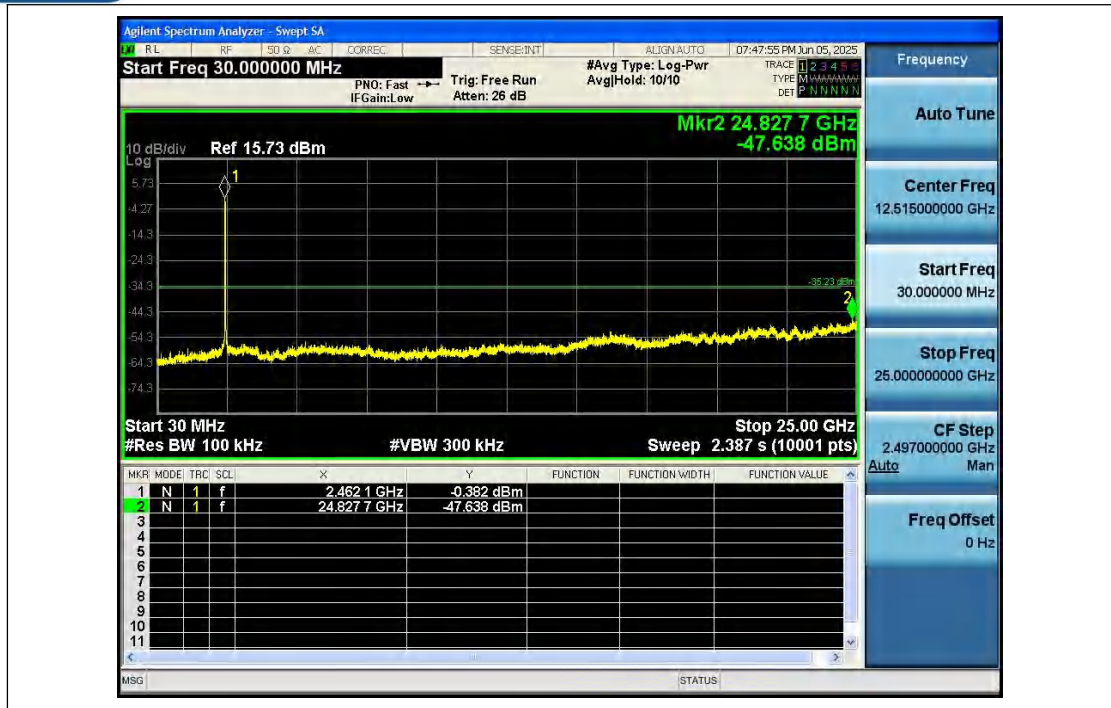
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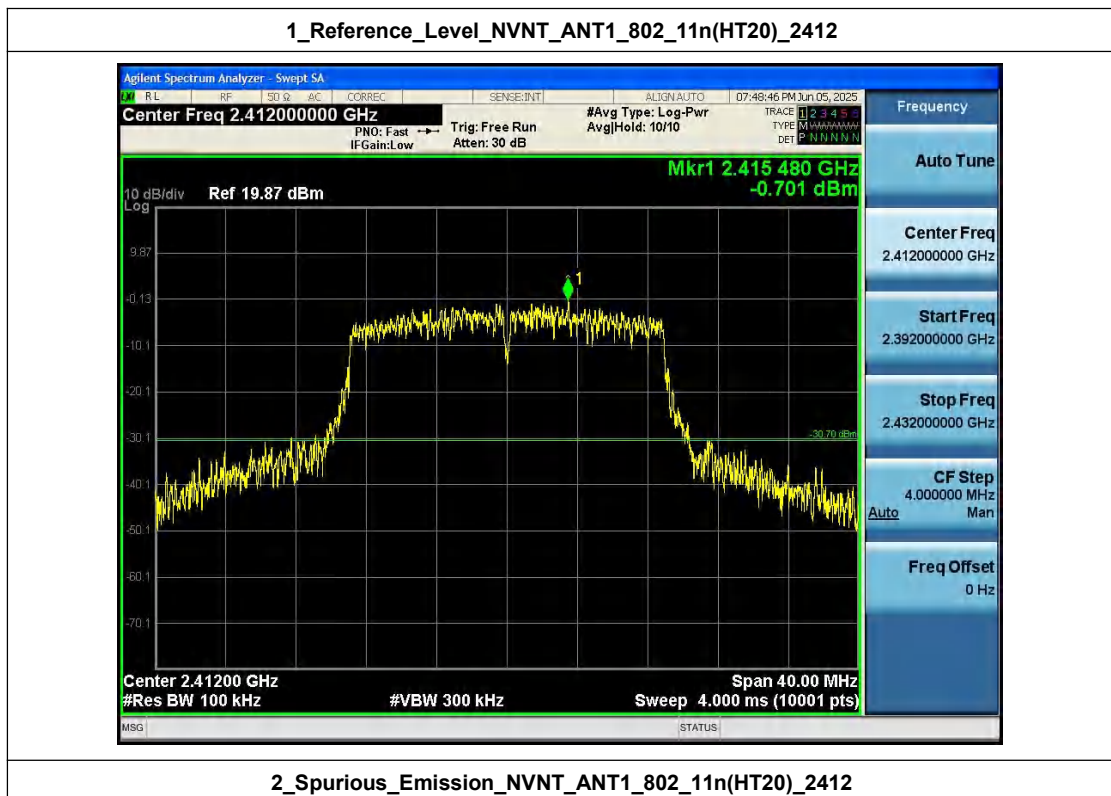
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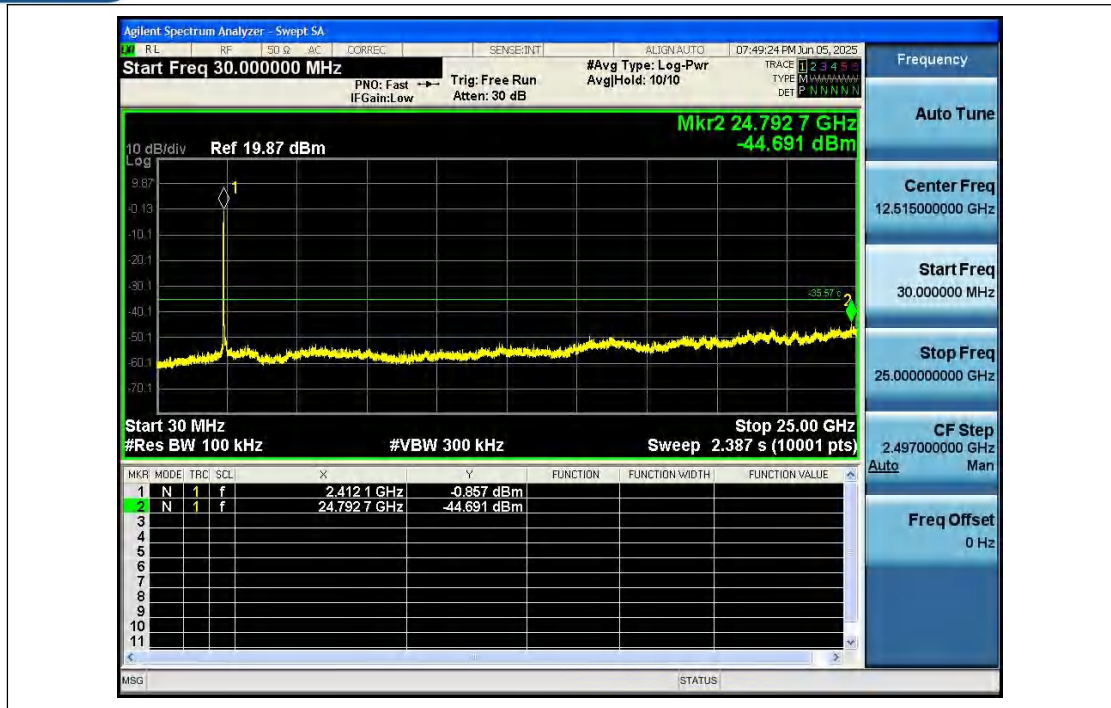
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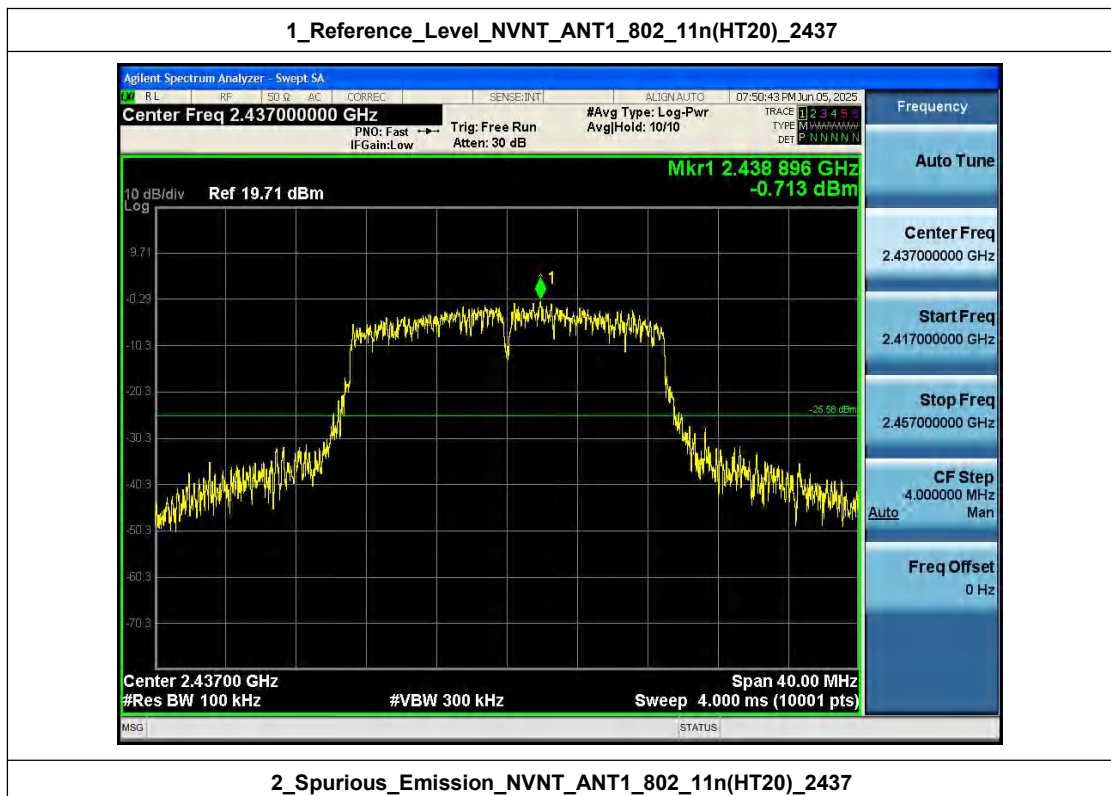
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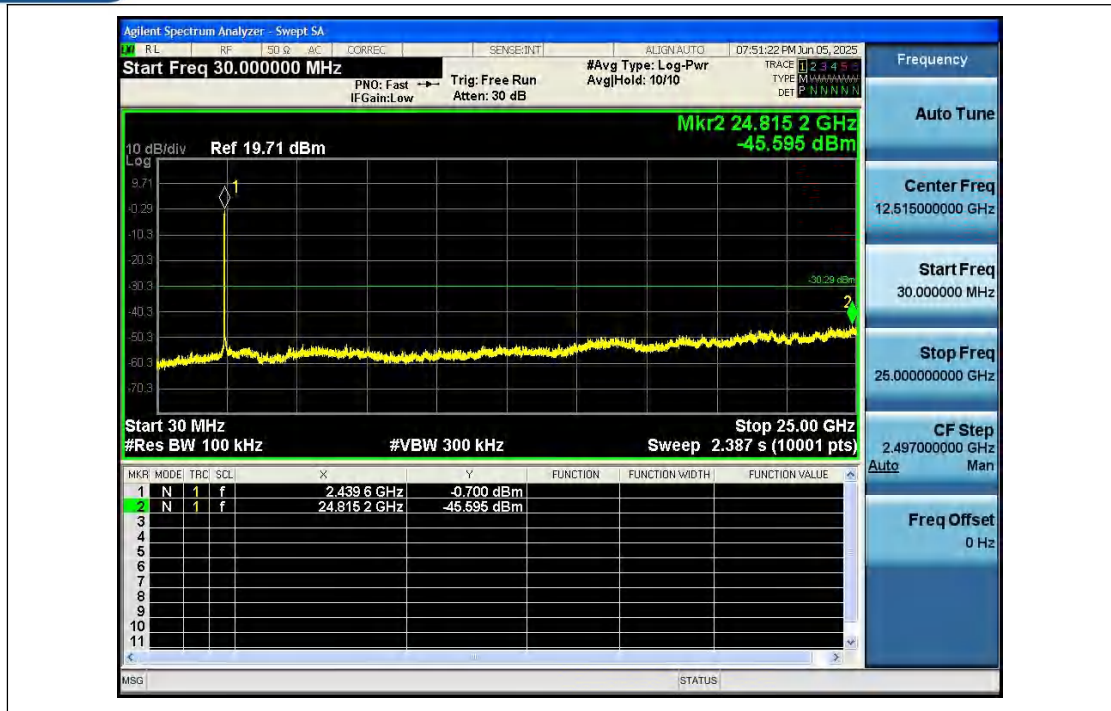
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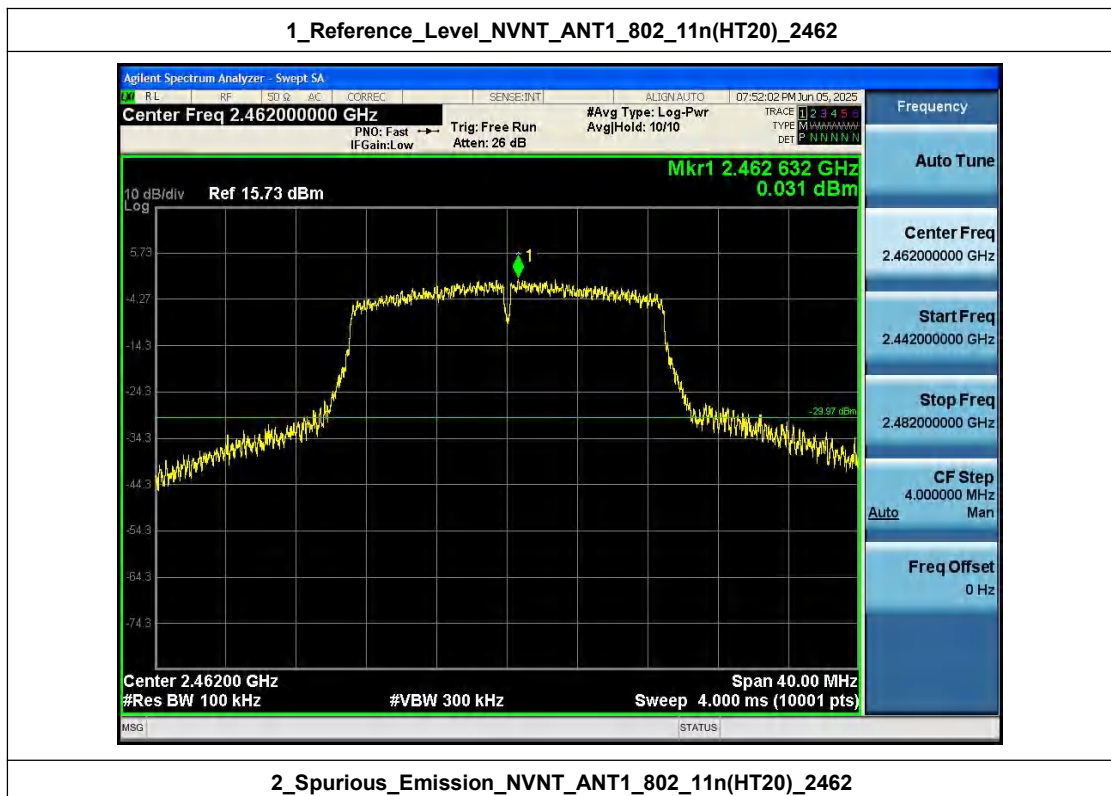
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2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437

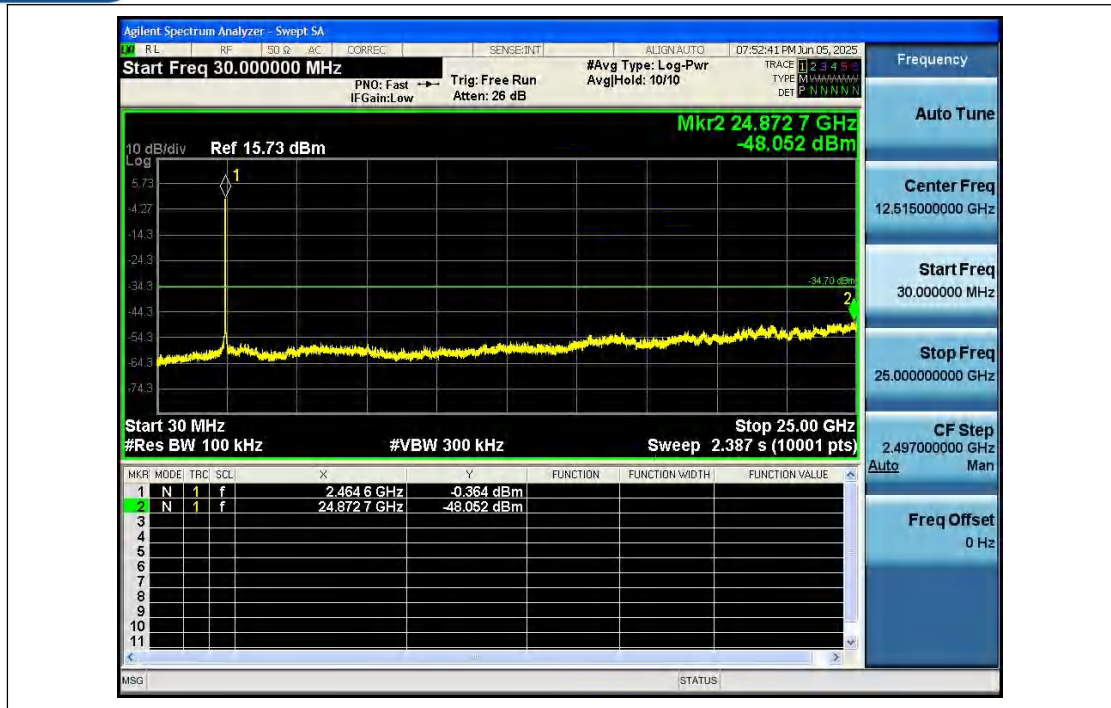


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462





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