

Appendix Test Data

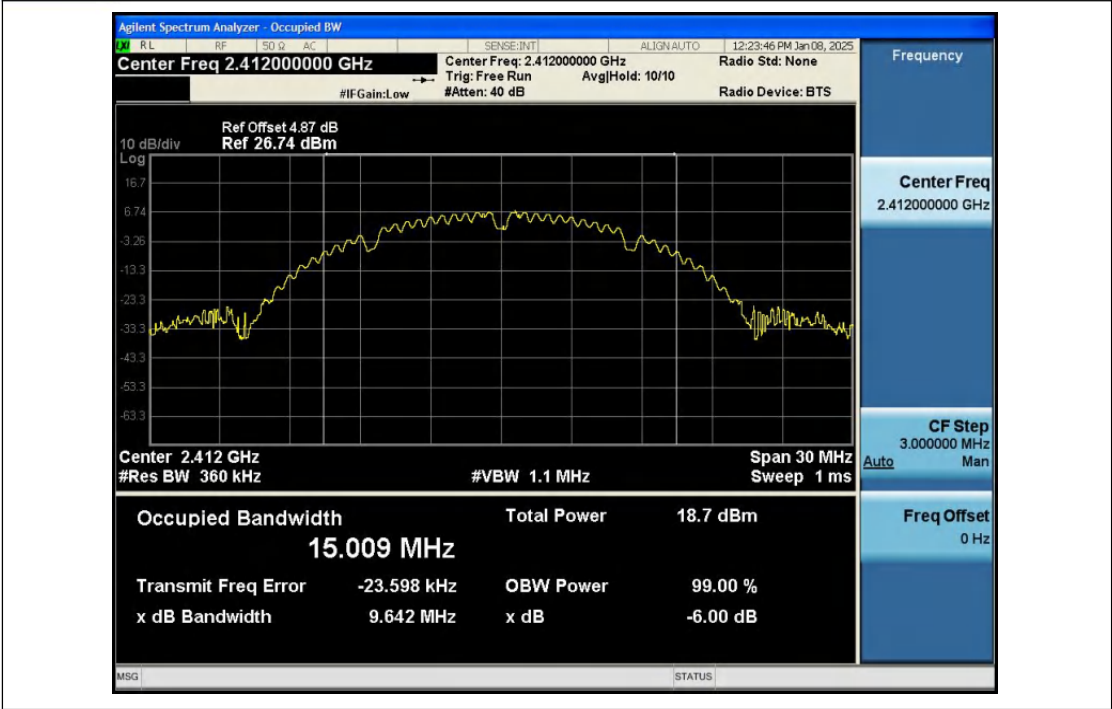
Report No.:	1812C40066412502	Test Sample No.:	1-2-2
Start Test Date:	2024.9.12	Finish Test Date:	2025.1.8
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.5℃	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

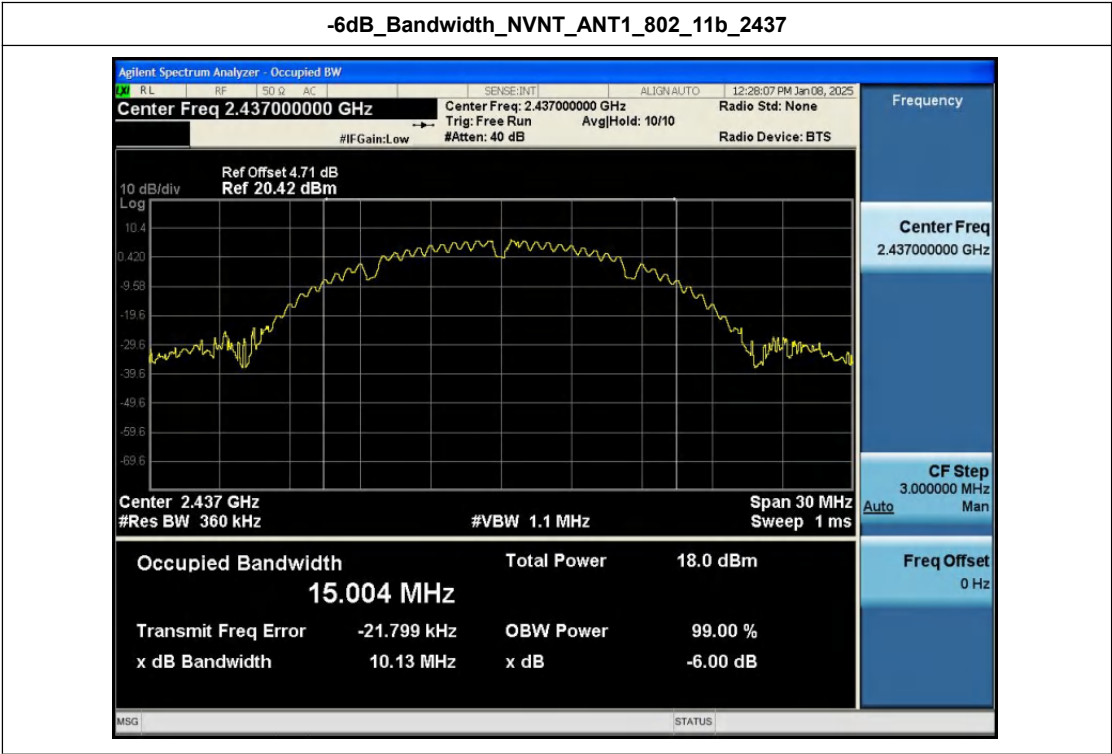
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.64	500	Pass
NVNT	ANT1	802.11b	2437.00	10.13	500	Pass
NVNT	ANT1	802.11b	2462.00	10.14	500	Pass
NVNT	ANT1	802.11g	2412.00	16.51	500	Pass
NVNT	ANT1	802.11g	2437.00	16.66	500	Pass
NVNT	ANT1	802.11g	2462.00	16.67	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.83	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.87	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.84	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.49	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.24	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.75	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



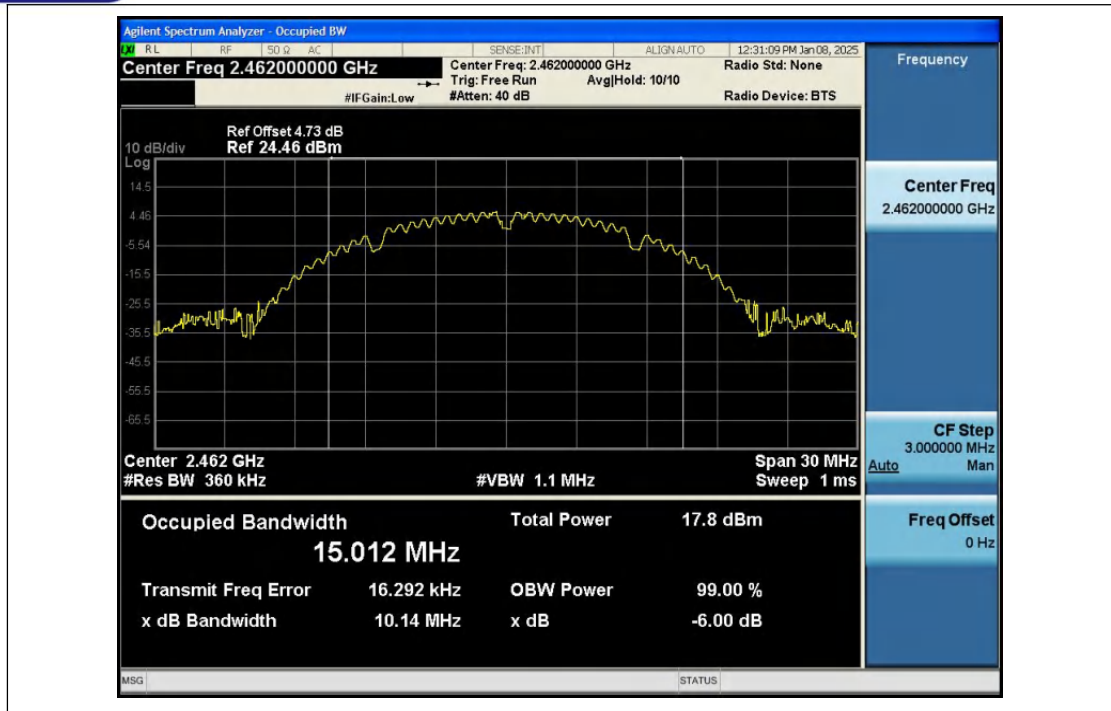


-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

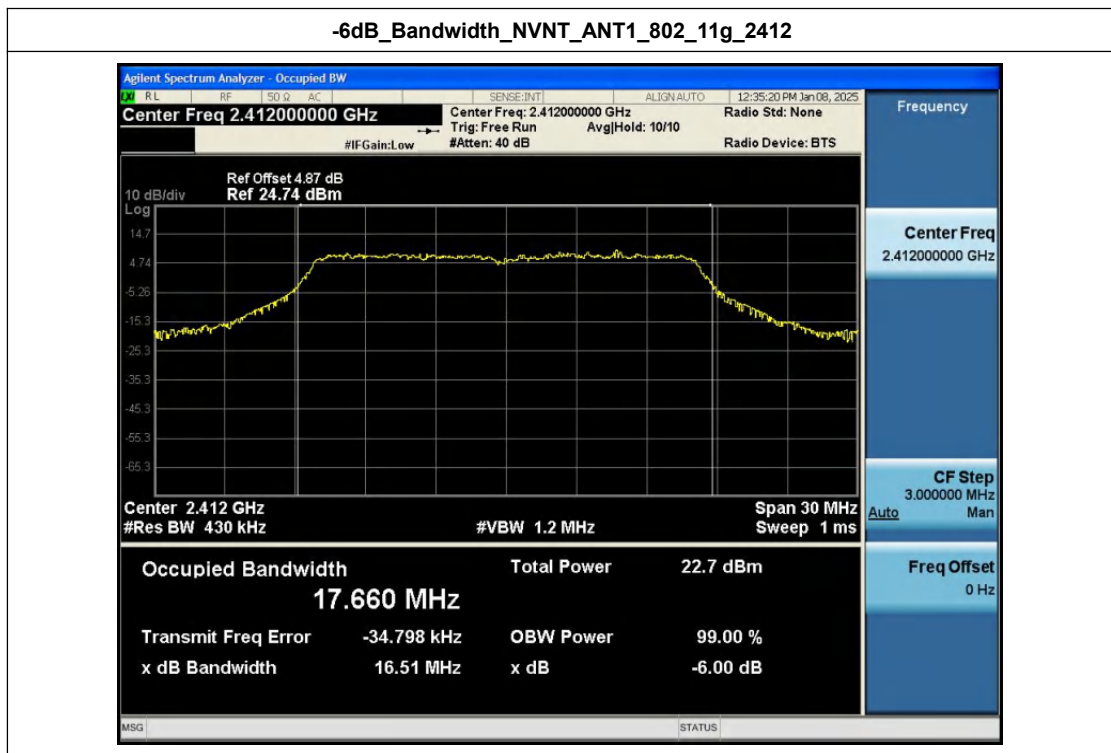


-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



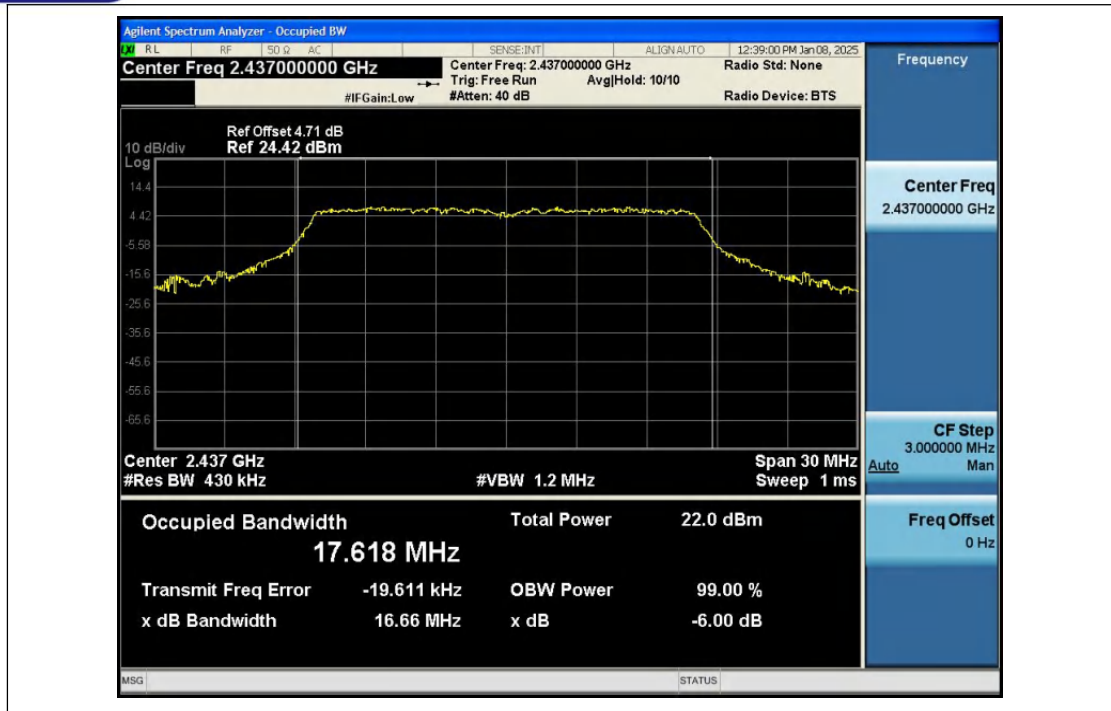


-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

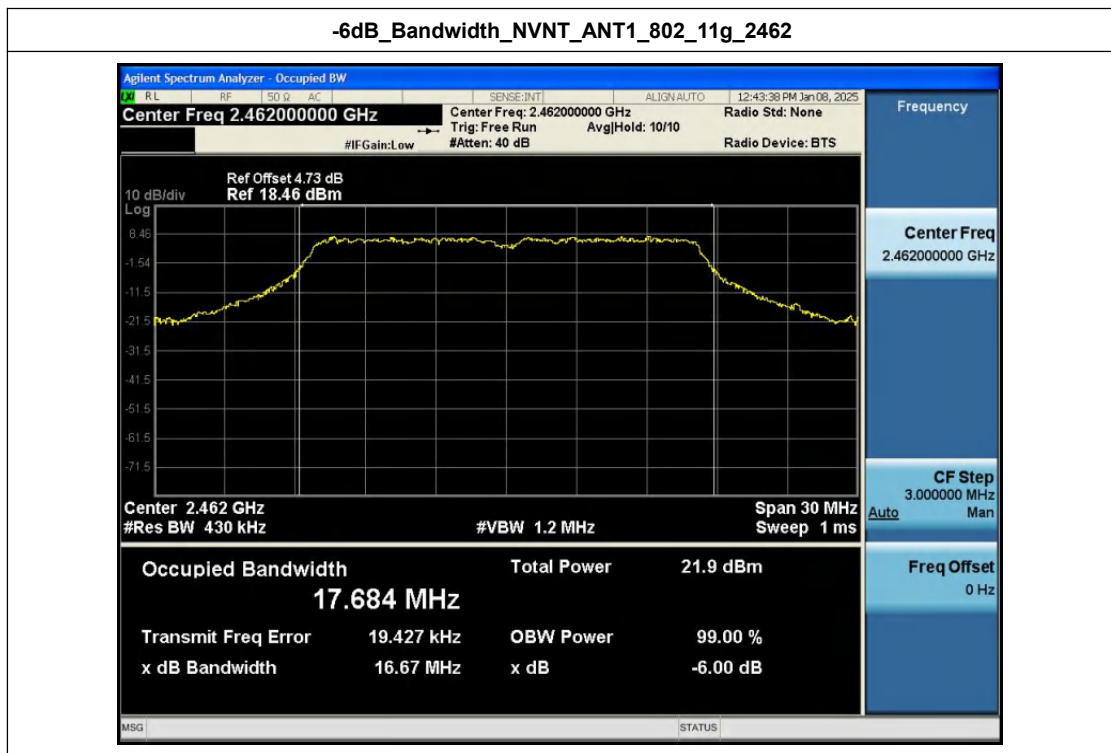


-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



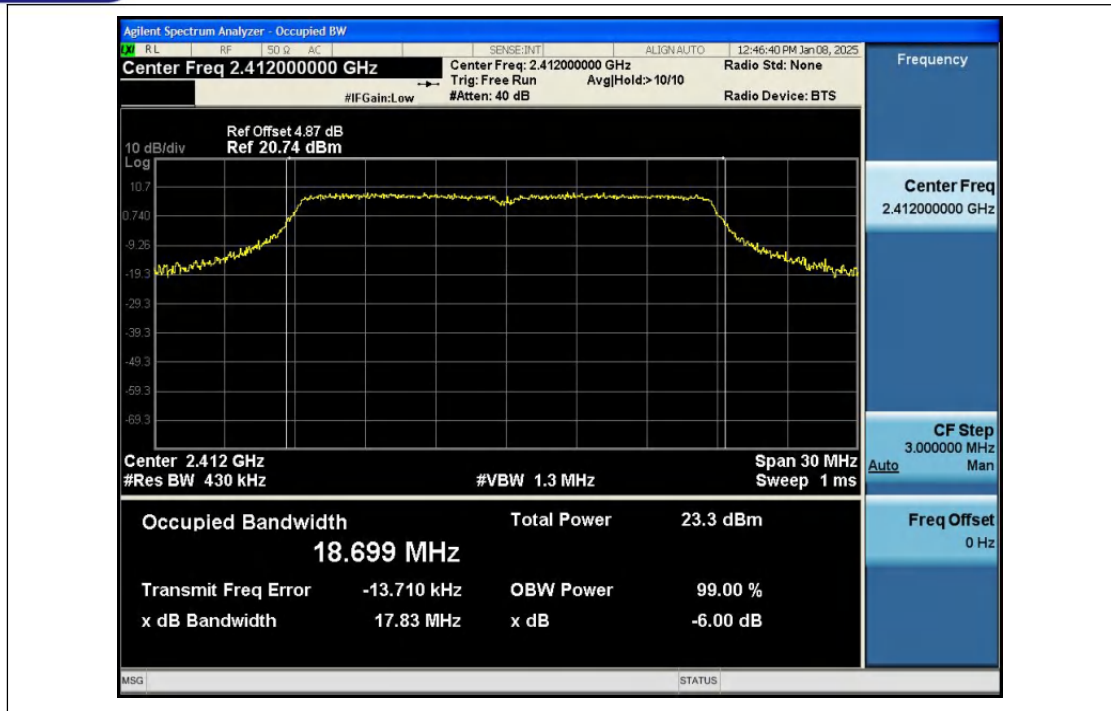


-6dB_Bandwidth_NVNT_ANT1_802_11g_2462

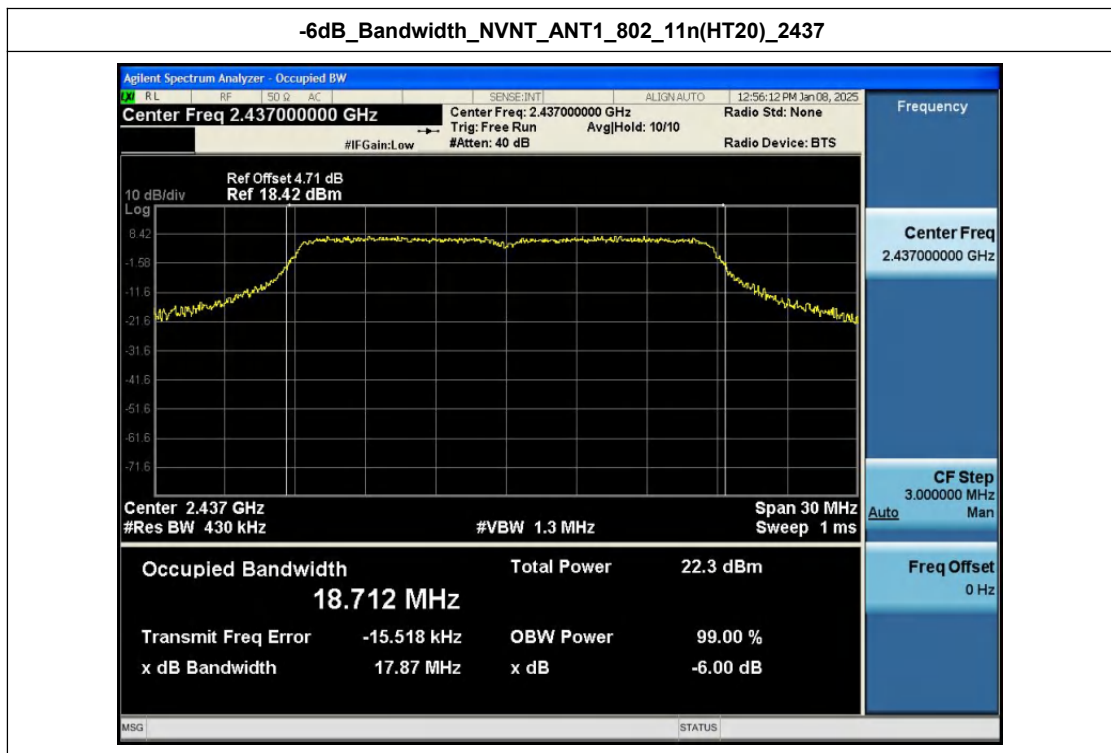


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



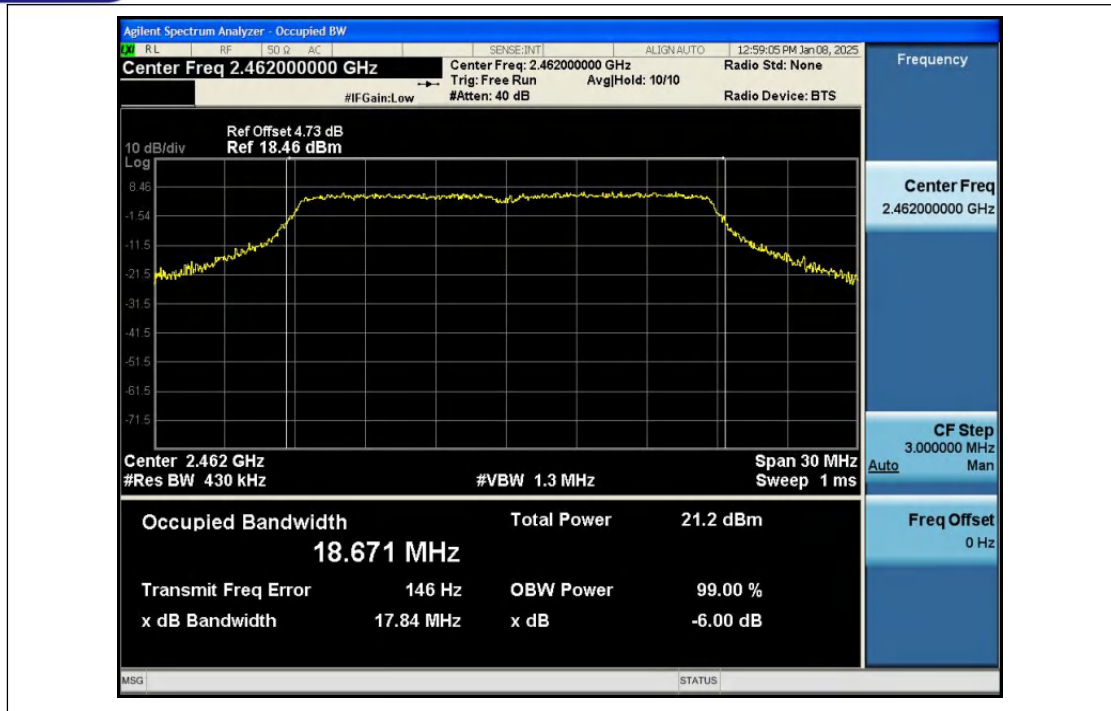


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

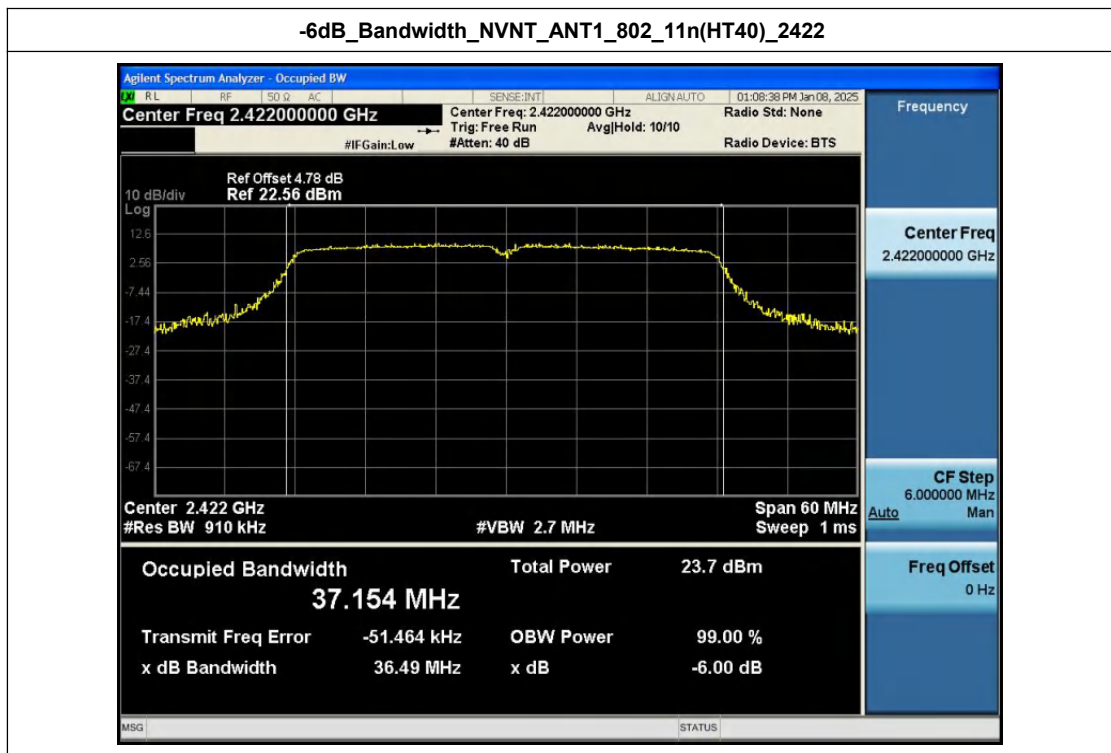


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



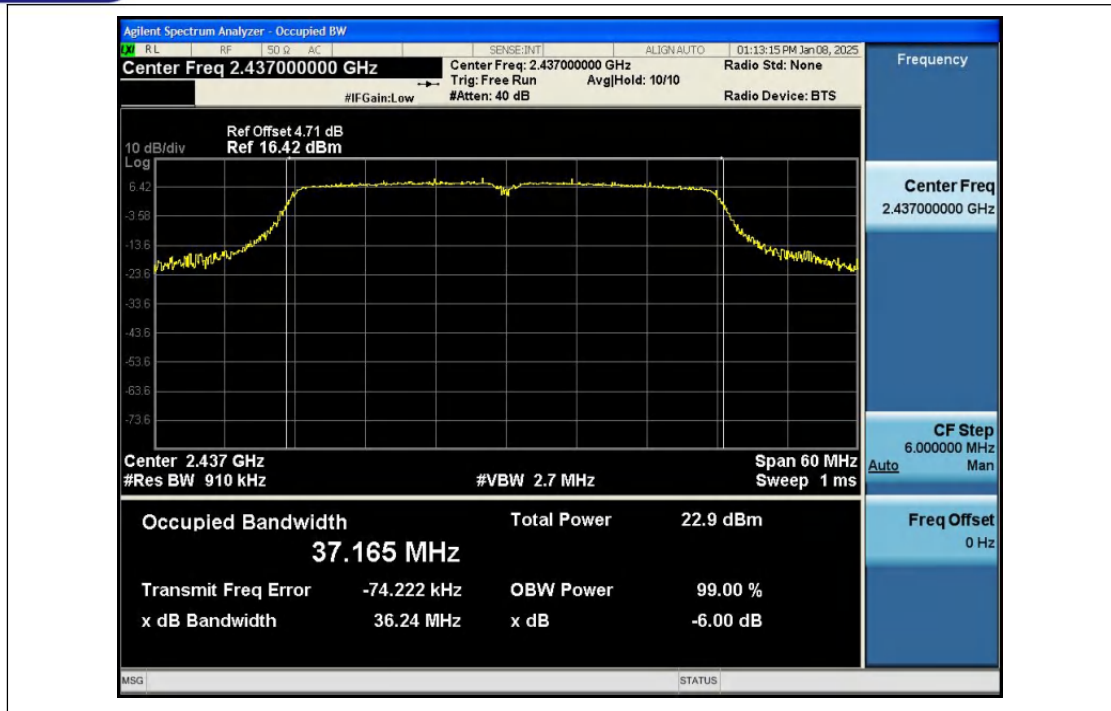


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422

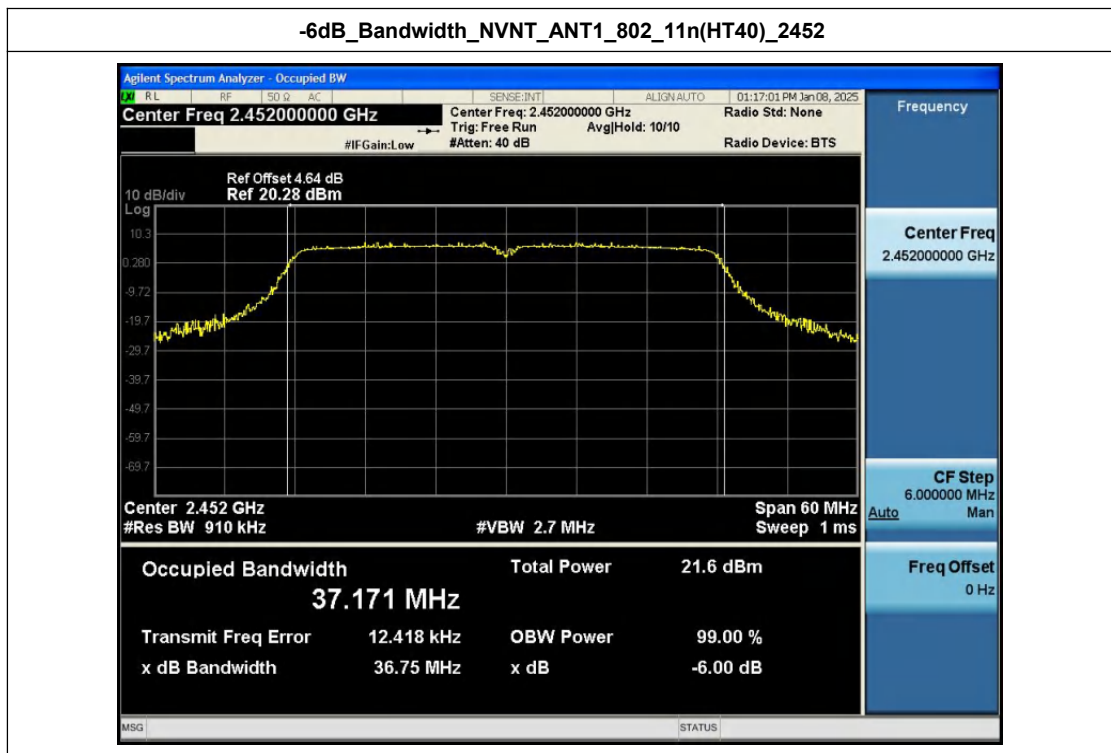


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437





-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



Appendix B: 99% Occupied Bandwidth

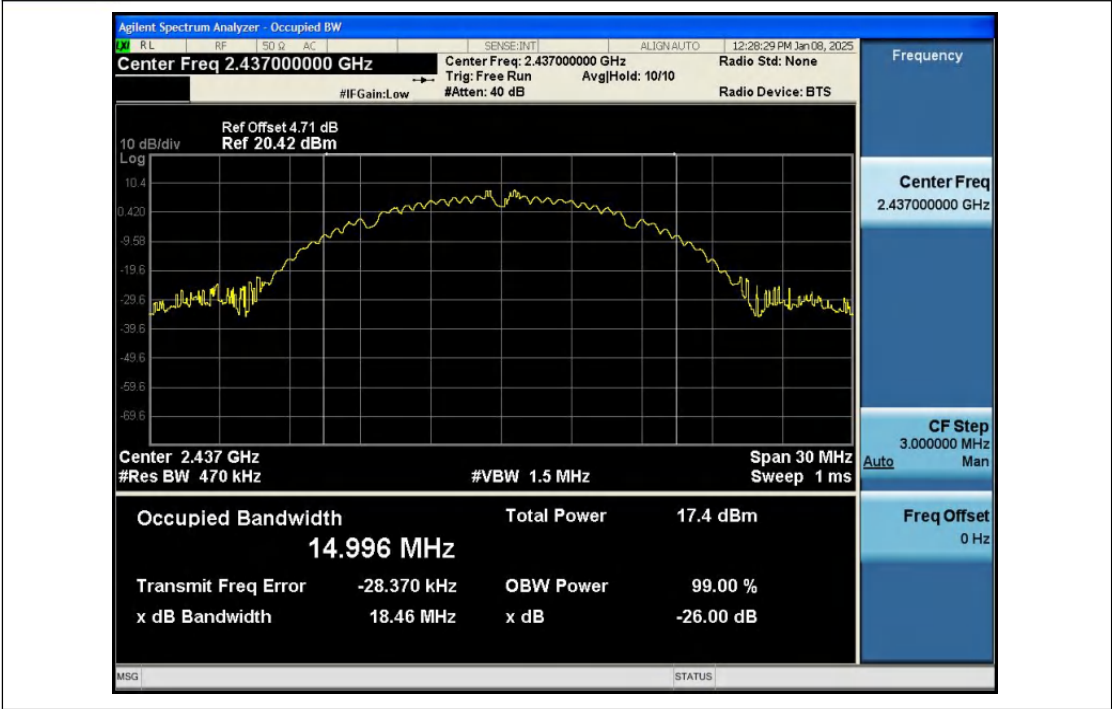
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	15.008
NVNT	ANT1	802.11b	2437.00	14.996
NVNT	ANT1	802.11b	2462.00	15.009
NVNT	ANT1	802.11g	2412.00	17.950
NVNT	ANT1	802.11g	2437.00	18.095
NVNT	ANT1	802.11g	2462.00	18.006
NVNT	ANT1	802.11n(HT20)	2412.00	19.399
NVNT	ANT1	802.11n(HT20)	2437.00	19.195
NVNT	ANT1	802.11n(HT20)	2462.00	19.128
NVNT	ANT1	802.11n(HT40)	2422.00	37.208
NVNT	ANT1	802.11n(HT40)	2437.00	37.234
NVNT	ANT1	802.11n(HT40)	2452.00	37.178

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

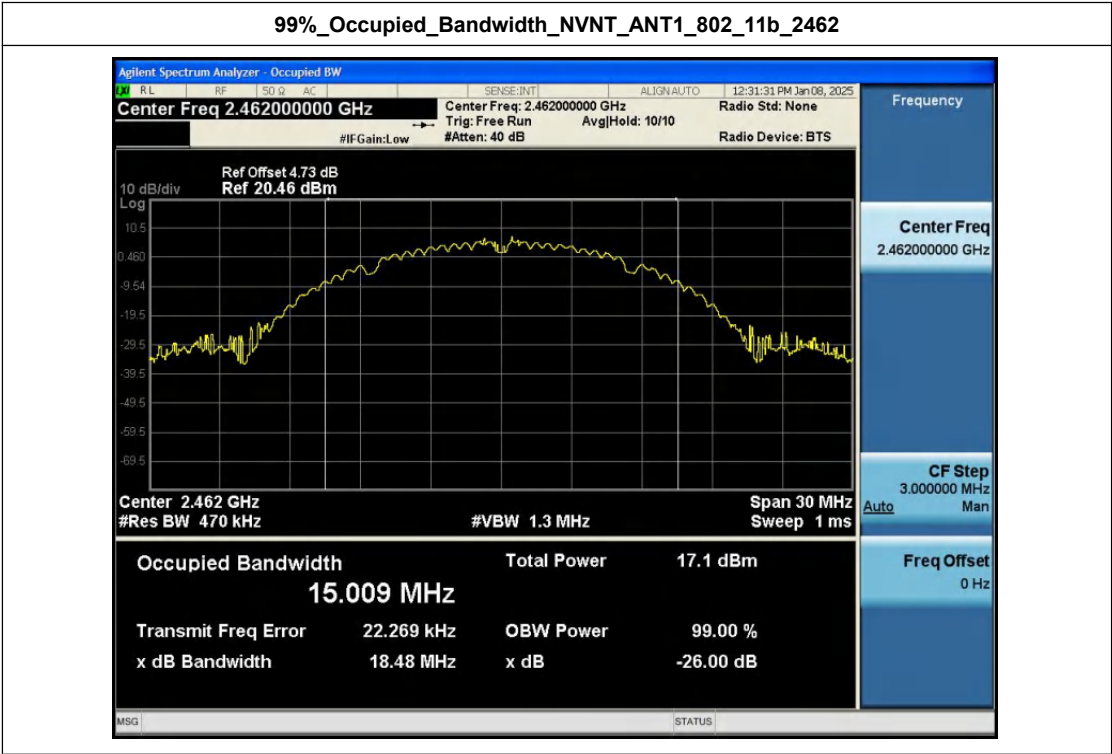


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



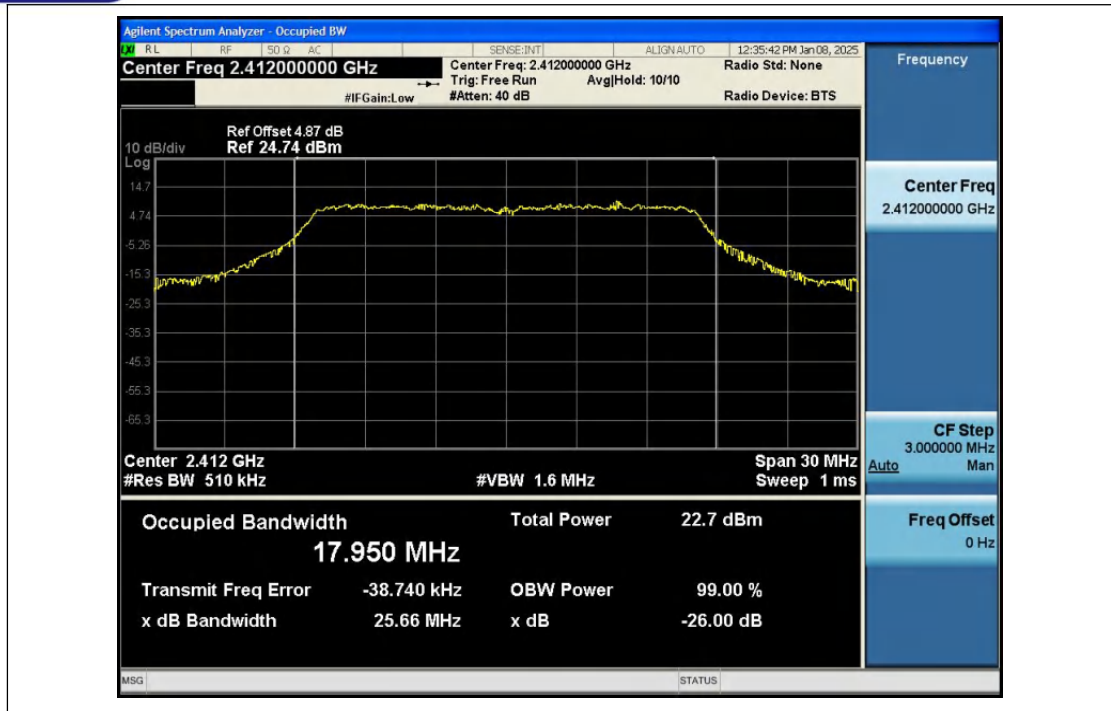


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462

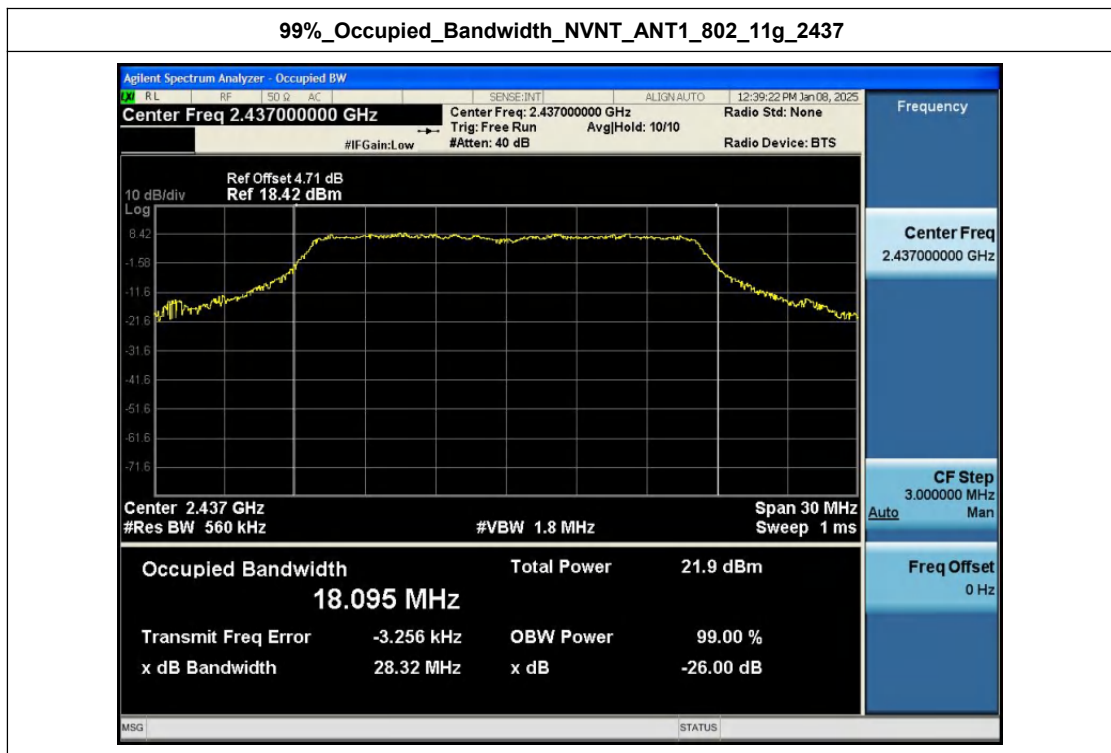


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



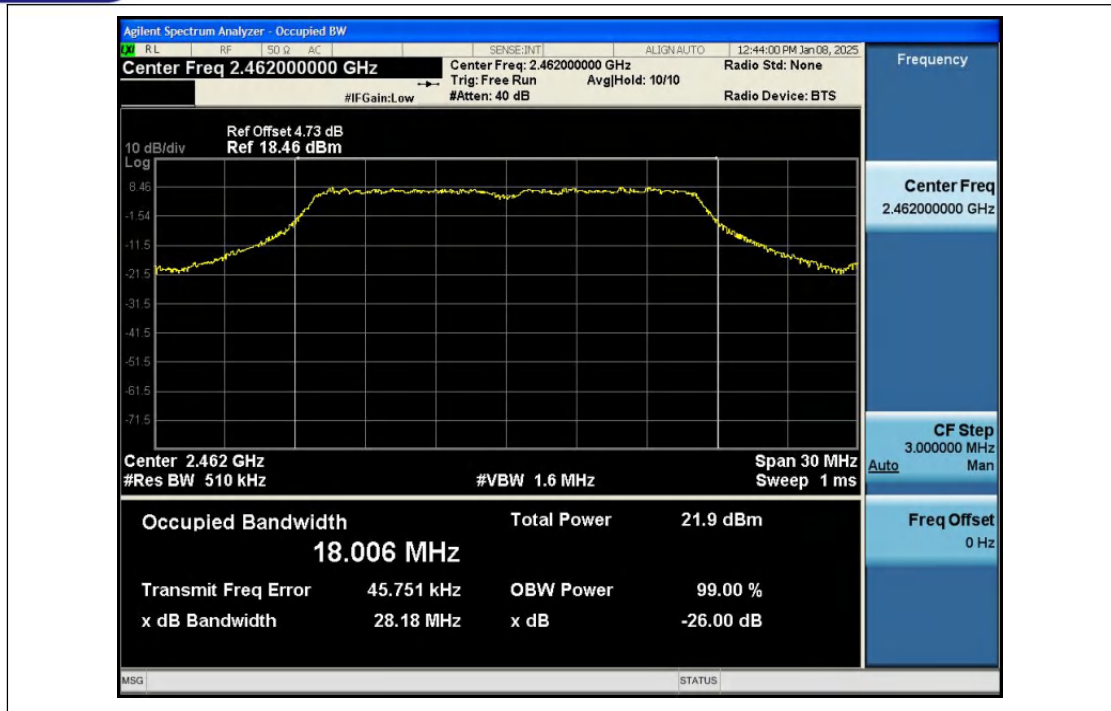


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437

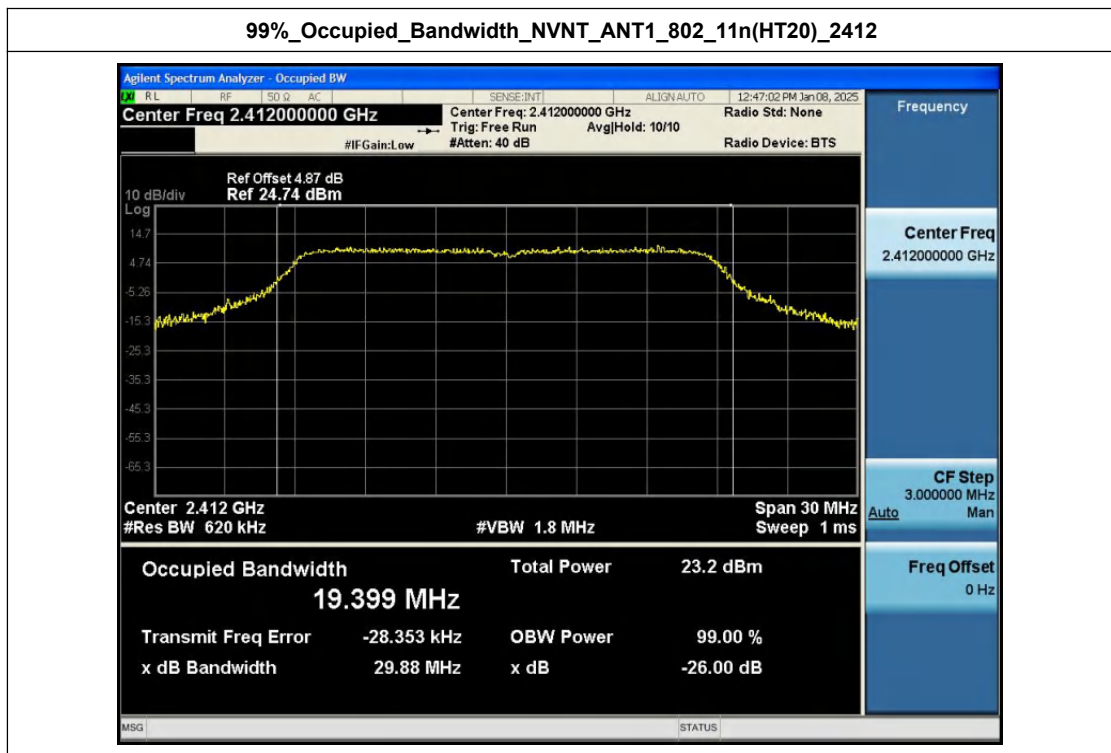


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



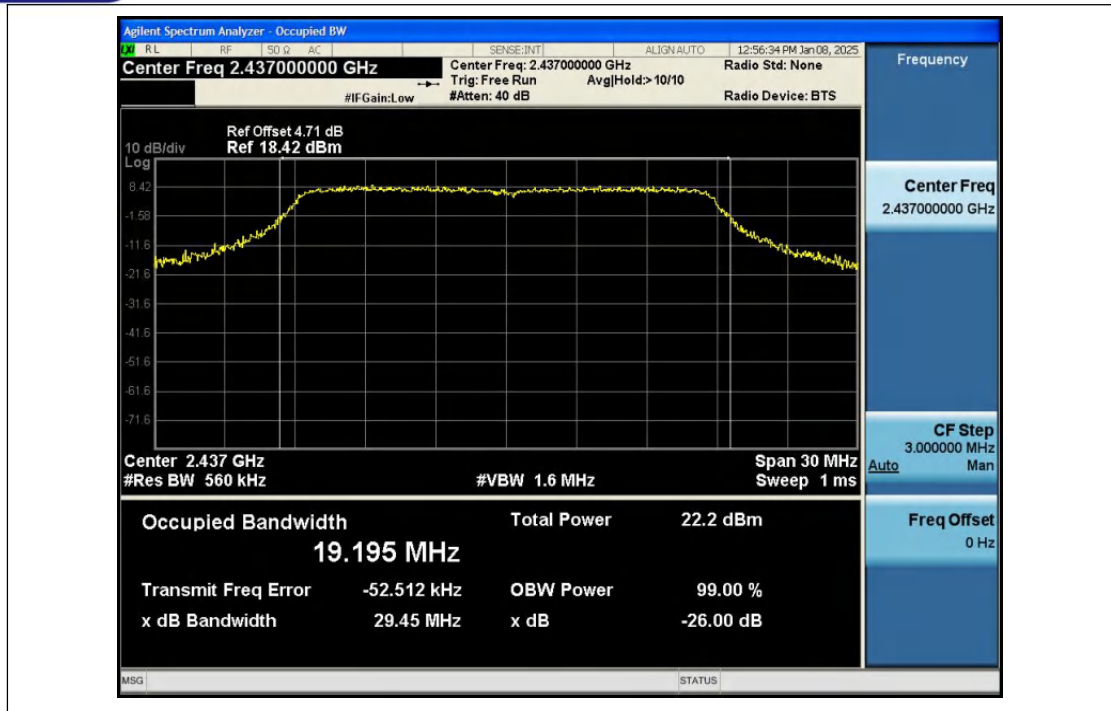


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412

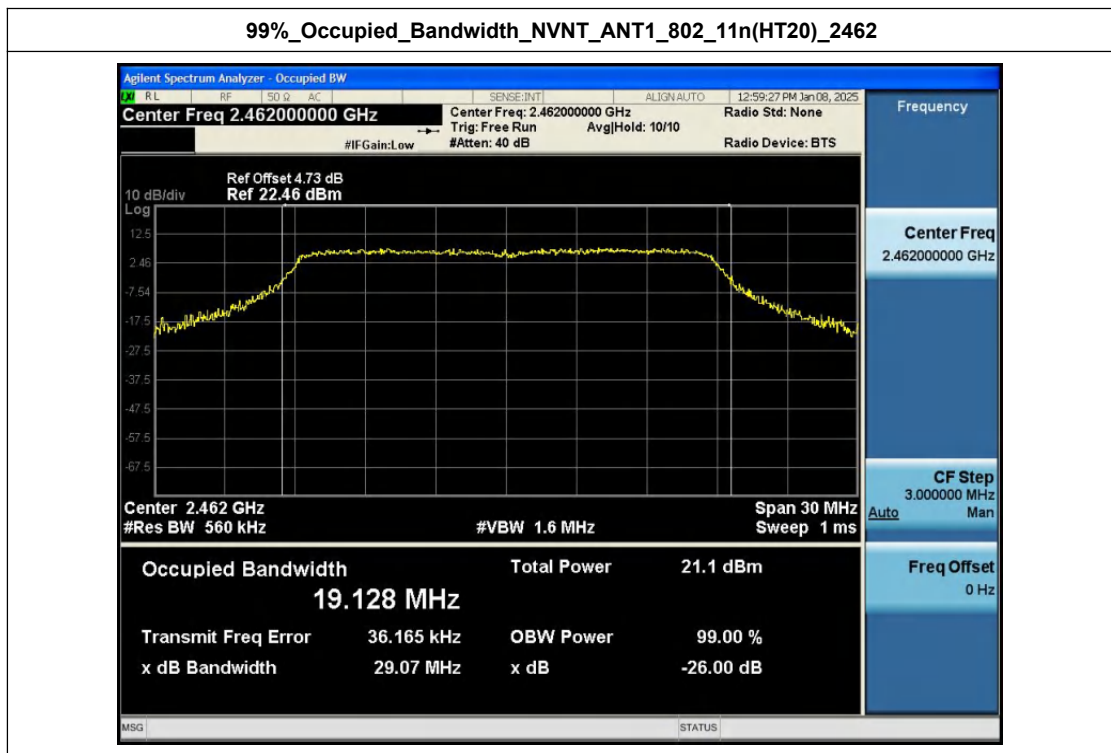


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



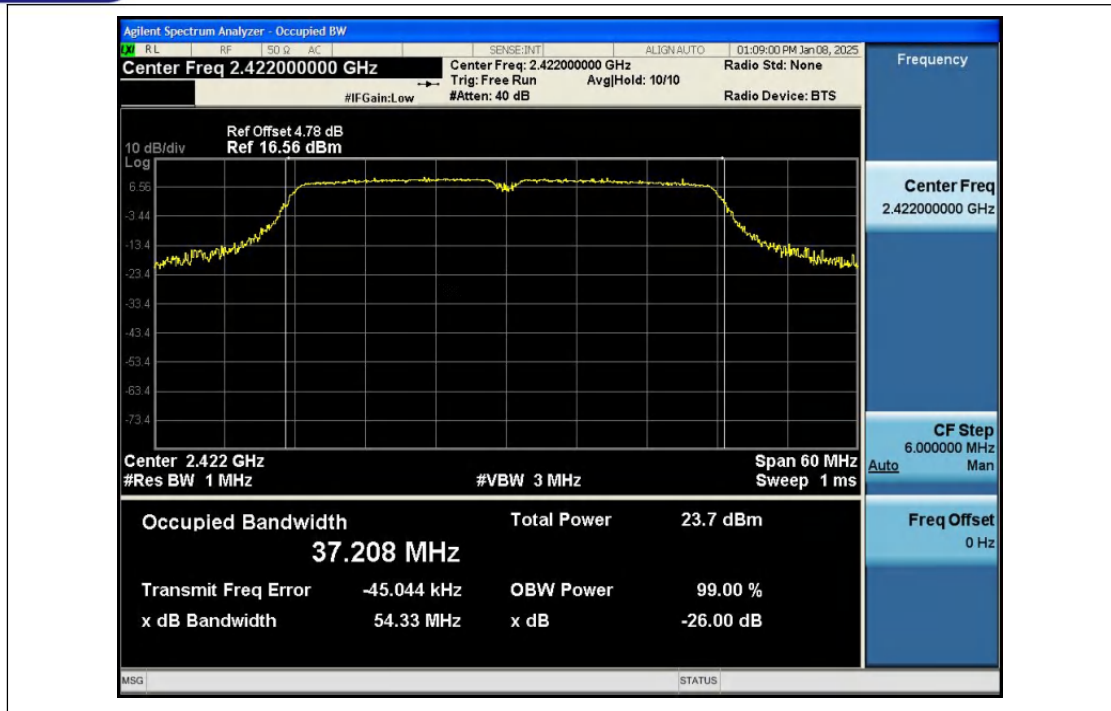


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

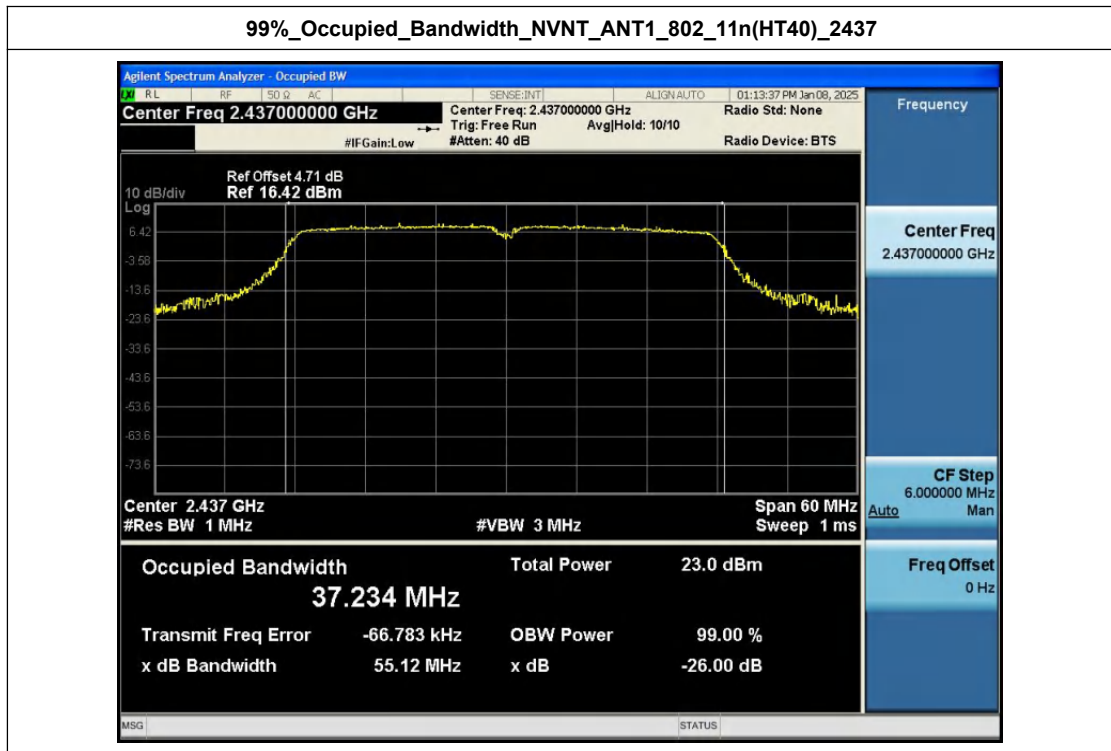


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



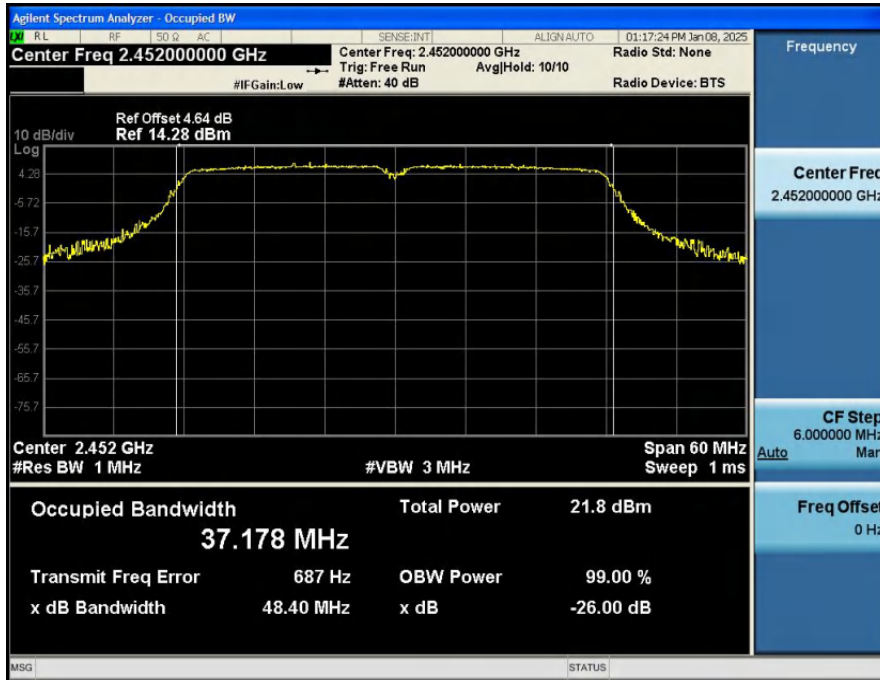


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452





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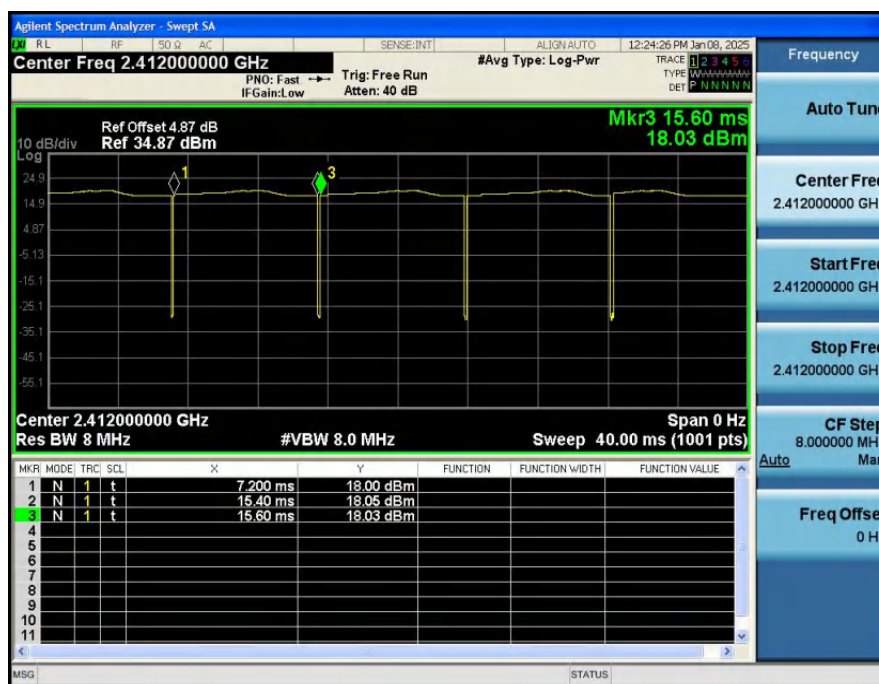
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Appendix C: Duty Cycle

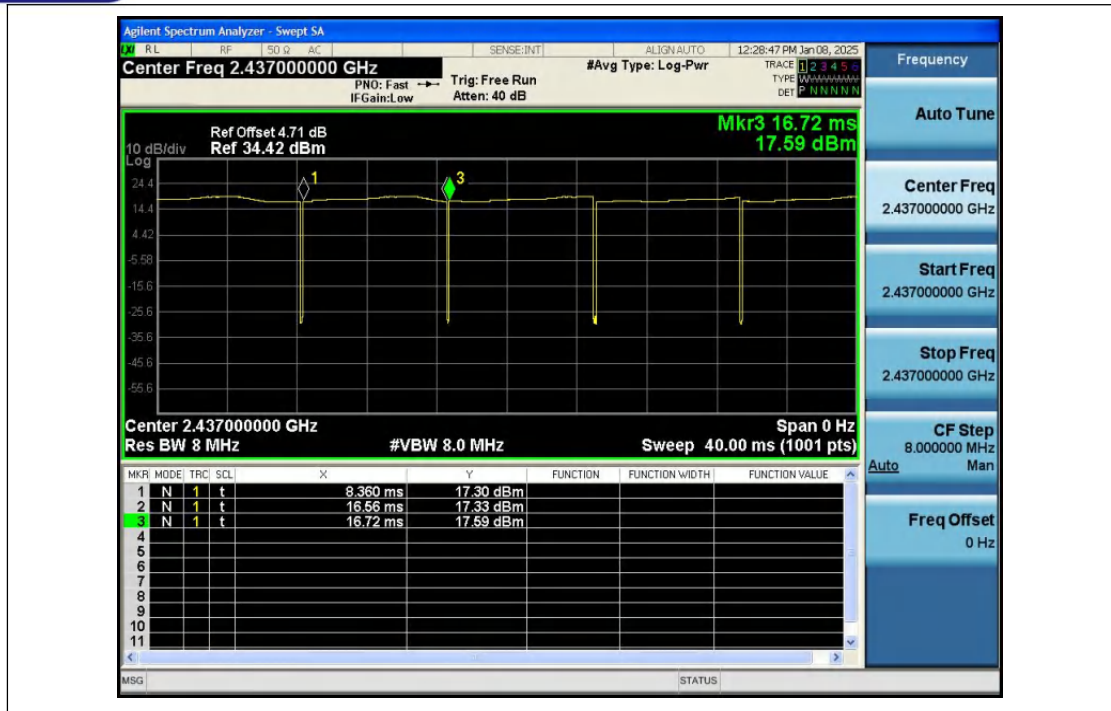
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.10	0.00
NVNT	ANT1	802.11b	2437.00	98.56	0.00
NVNT	ANT1	802.11b	2462.00	98.56	0.00
NVNT	ANT1	802.11g	2412.00	89.61	0.48
NVNT	ANT1	802.11g	2437.00	88.31	0.54
NVNT	ANT1	802.11g	2462.00	90.79	0.42
NVNT	ANT1	802.11n(HT20)	2412.00	97.33	0.12
NVNT	ANT1	802.11n(HT20)	2437.00	97.33	0.12
NVNT	ANT1	802.11n(HT20)	2462.00	96.96	0.13
NVNT	ANT1	802.11n(HT40)	2422.00	94.70	0.24
NVNT	ANT1	802.11n(HT40)	2437.00	94.70	0.24
NVNT	ANT1	802.11n(HT40)	2452.00	93.94	0.27

Duty_Cycle_NVNT_ANT1_802_11b_2412

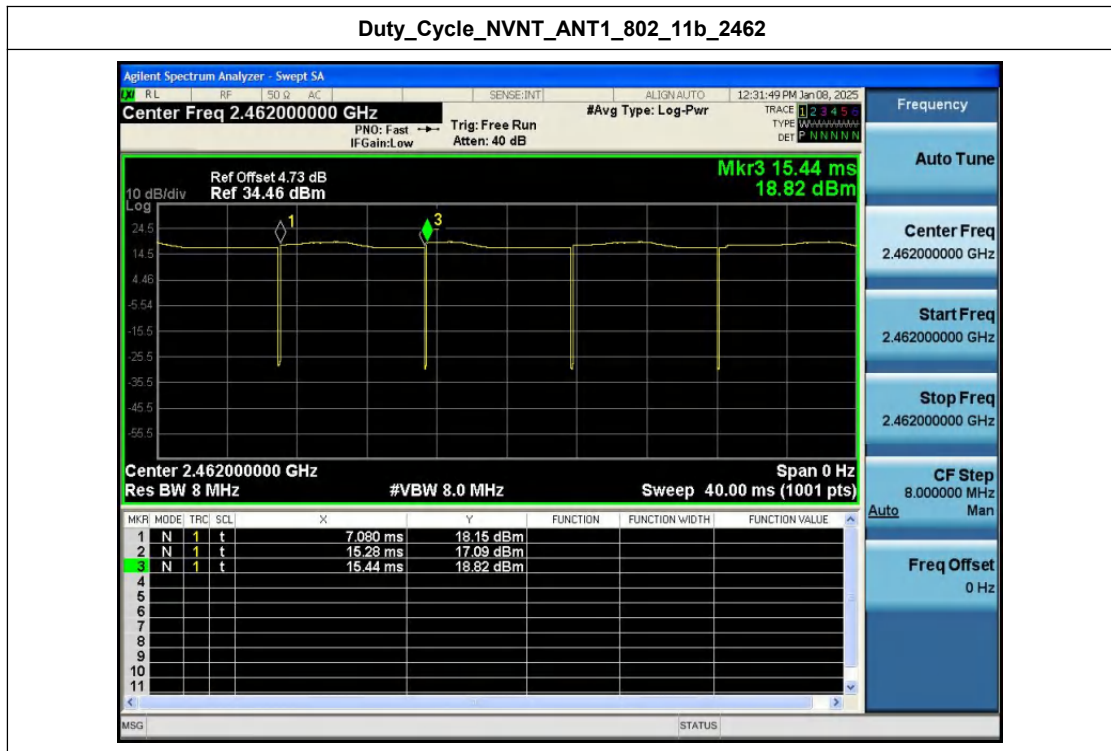


Duty_Cycle_NVNT_ANT1_802_11b_2437



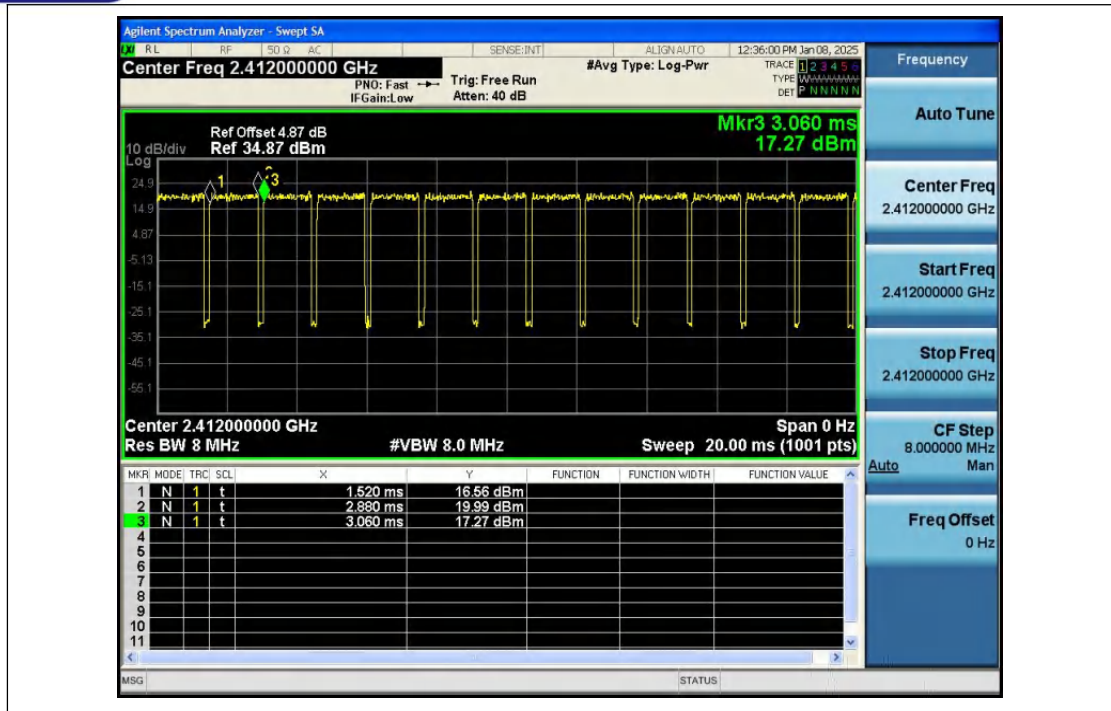


Duty_Cycle_NVNT_ANT1_802_11b_2462

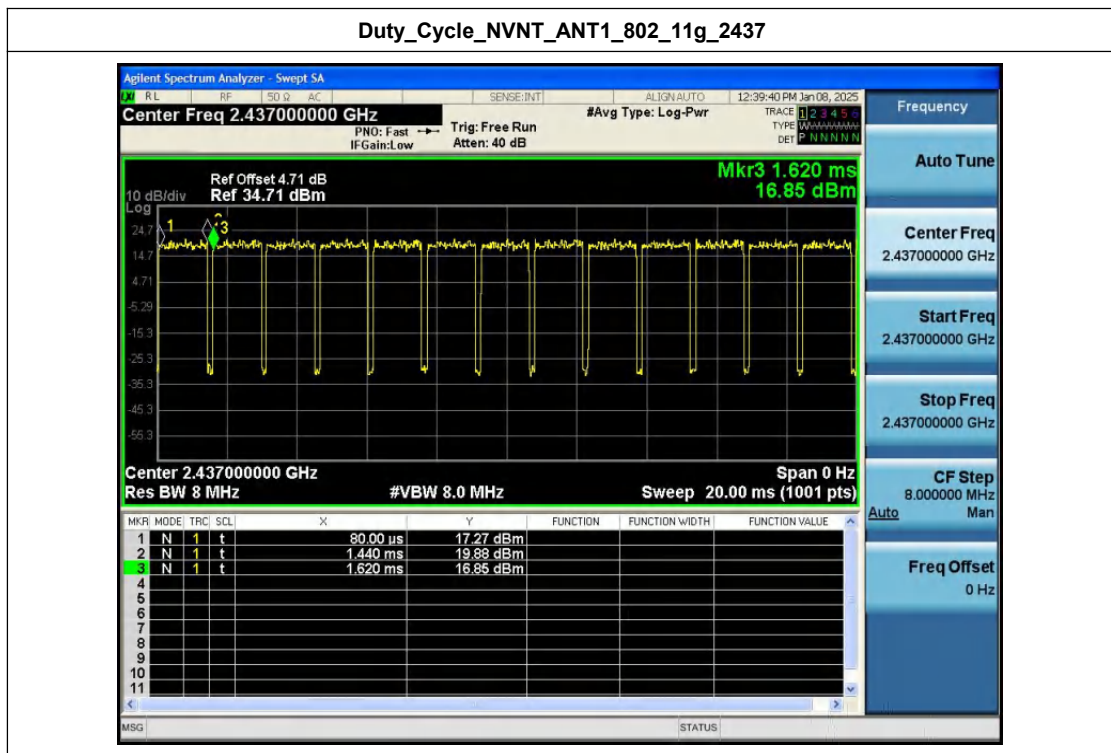


Duty_Cycle_NVNT_ANT1_802_11g_2412



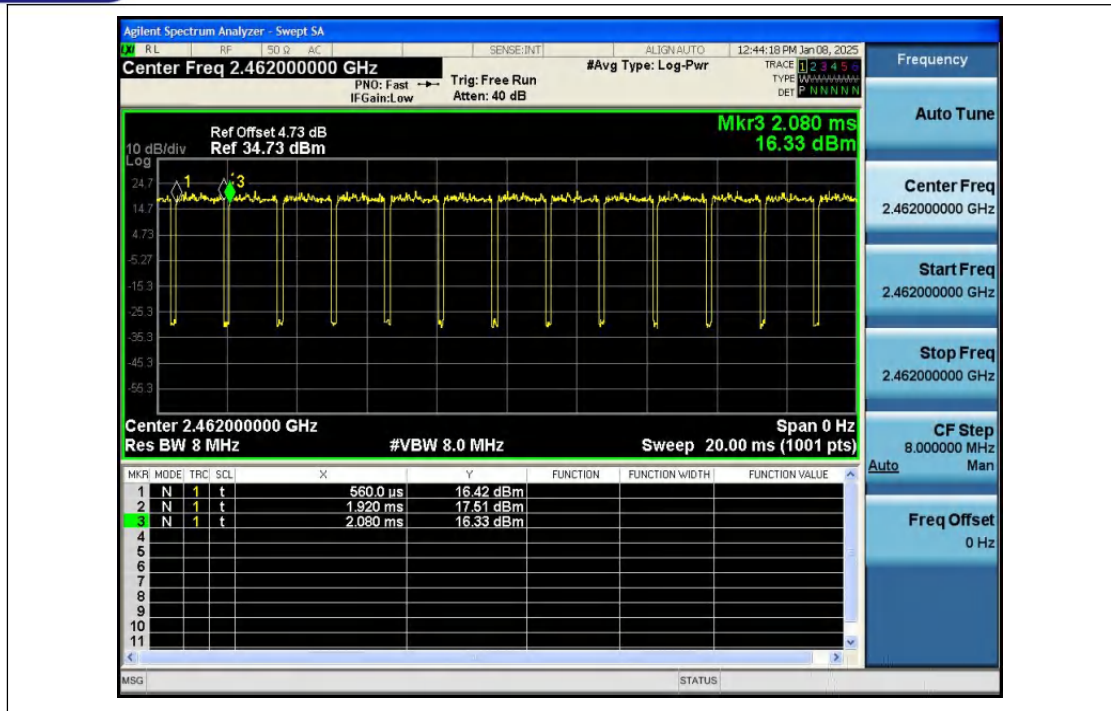


Duty_Cycle_NVNT_ANT1_802_11g_2437

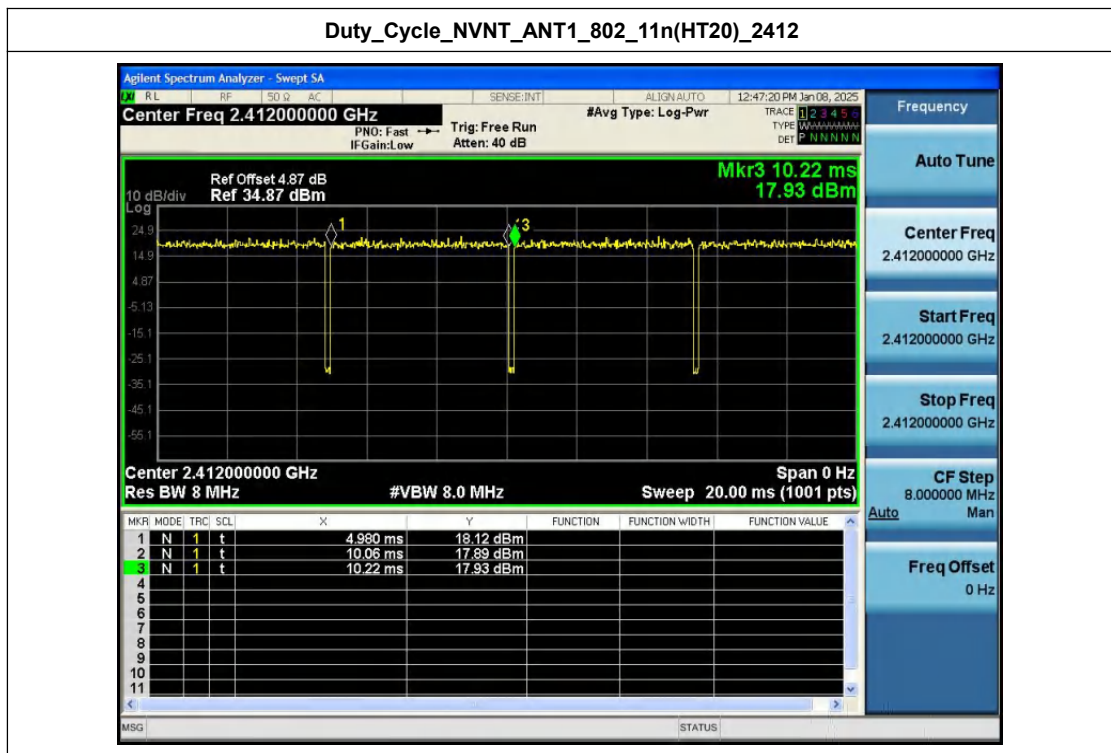


Duty_Cycle_NVNT_ANT1_802_11g_2462



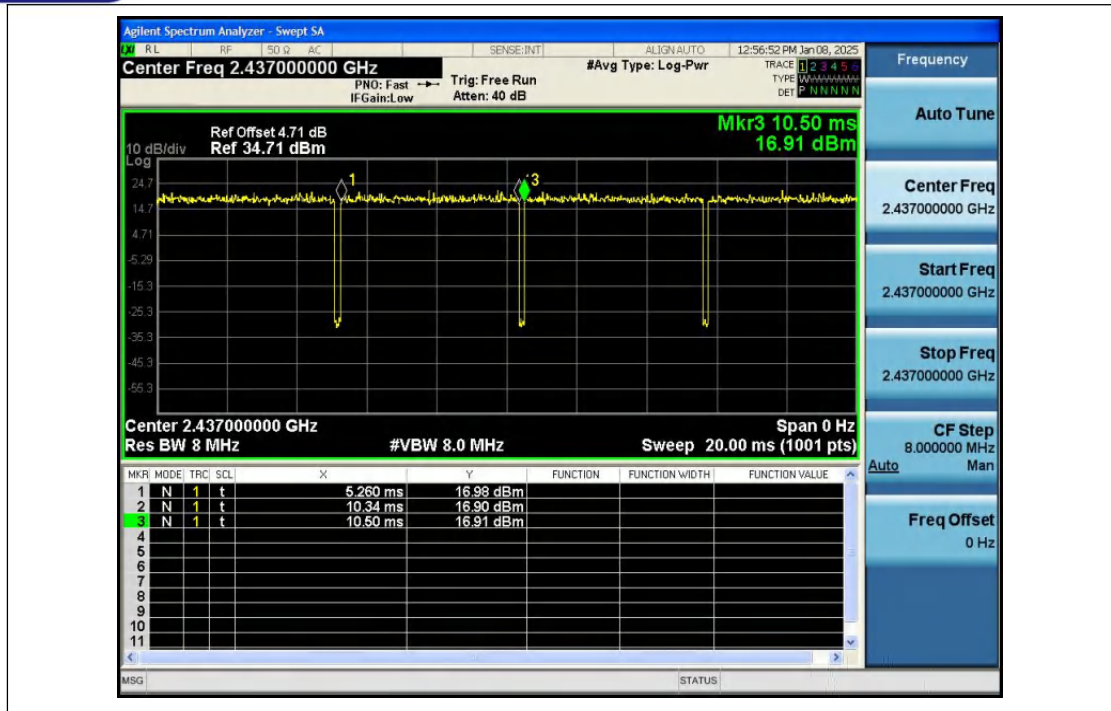


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412

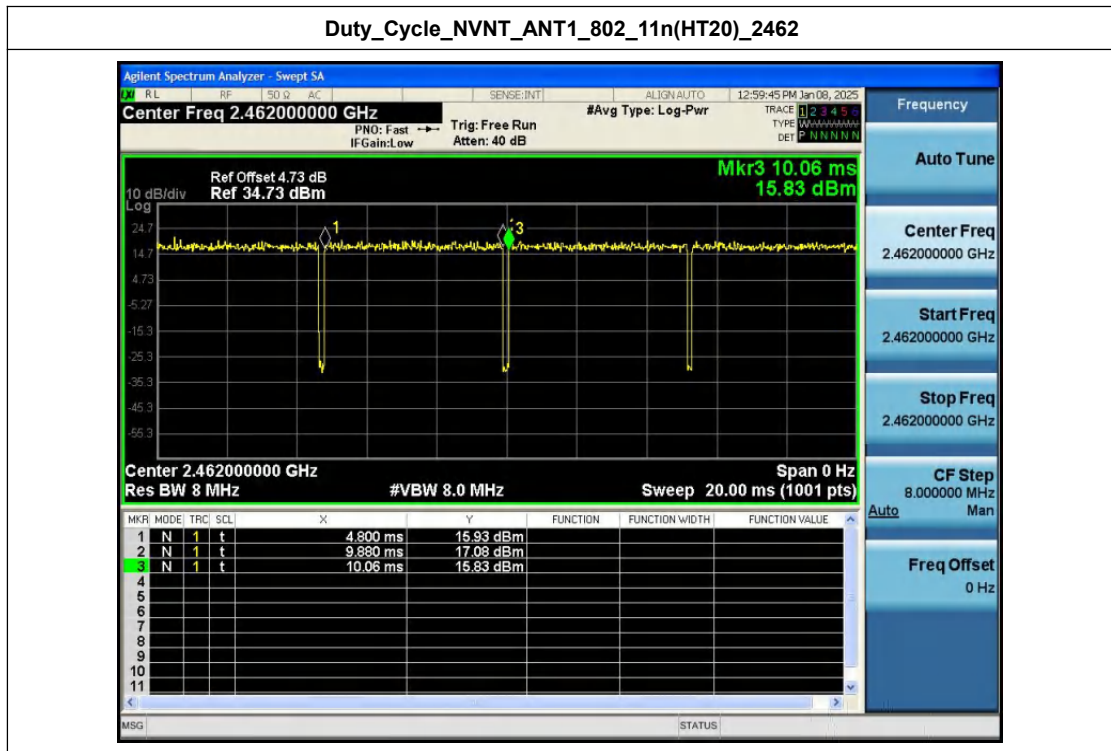


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



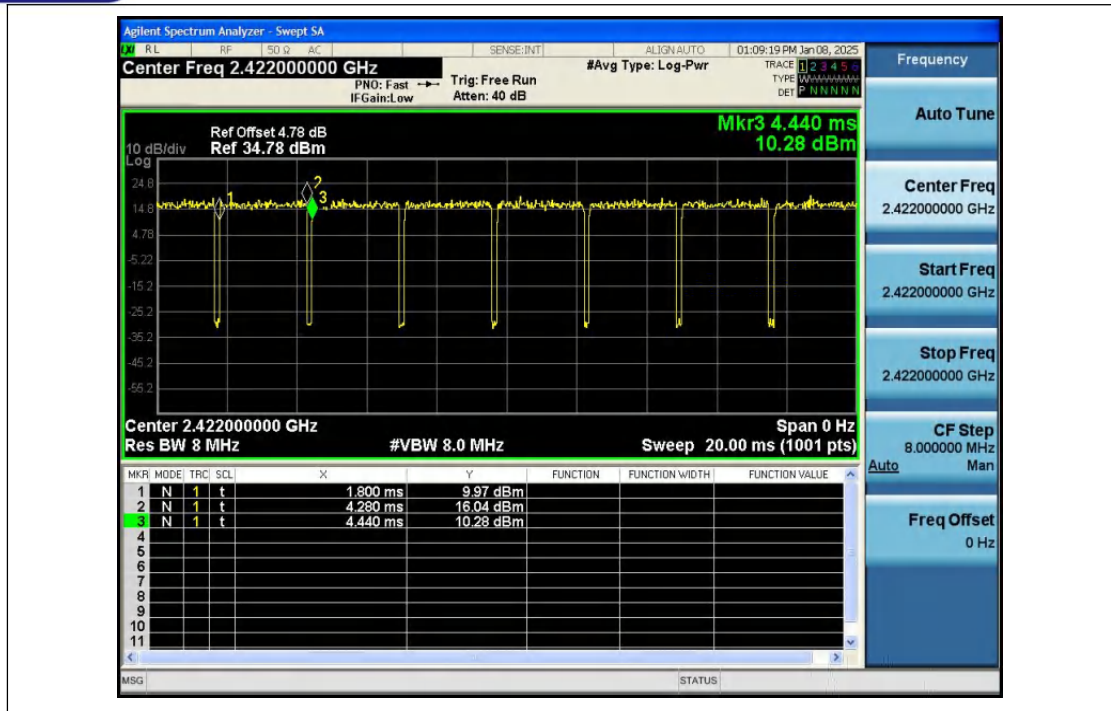


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462

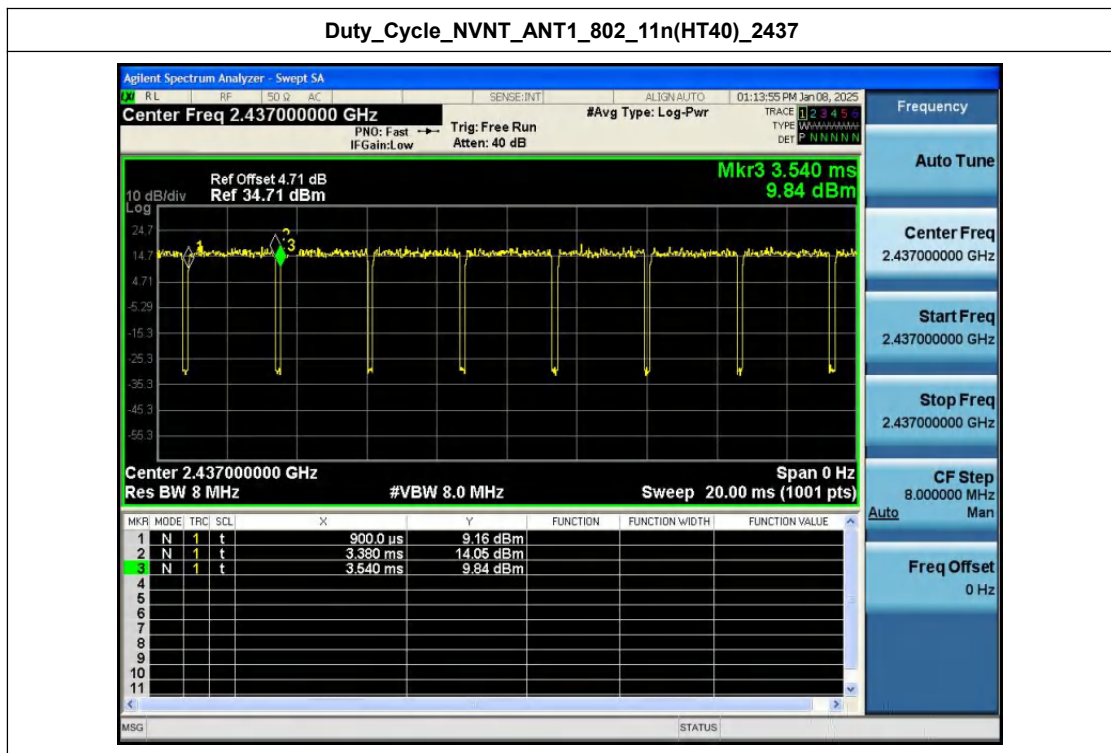


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



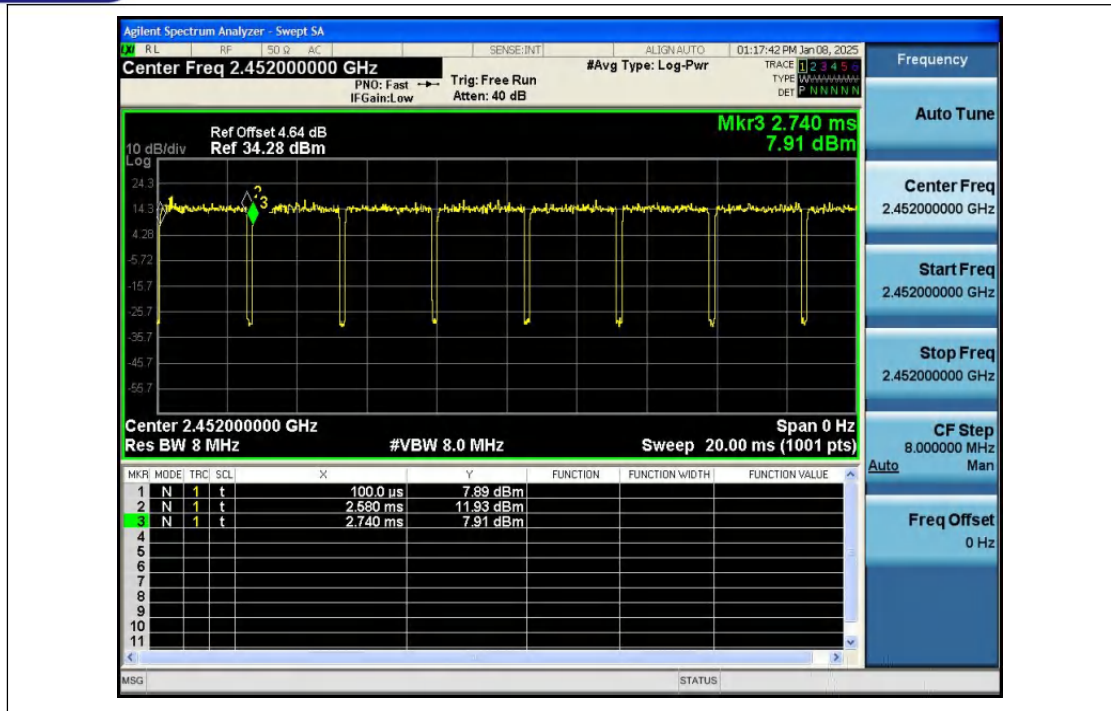


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452





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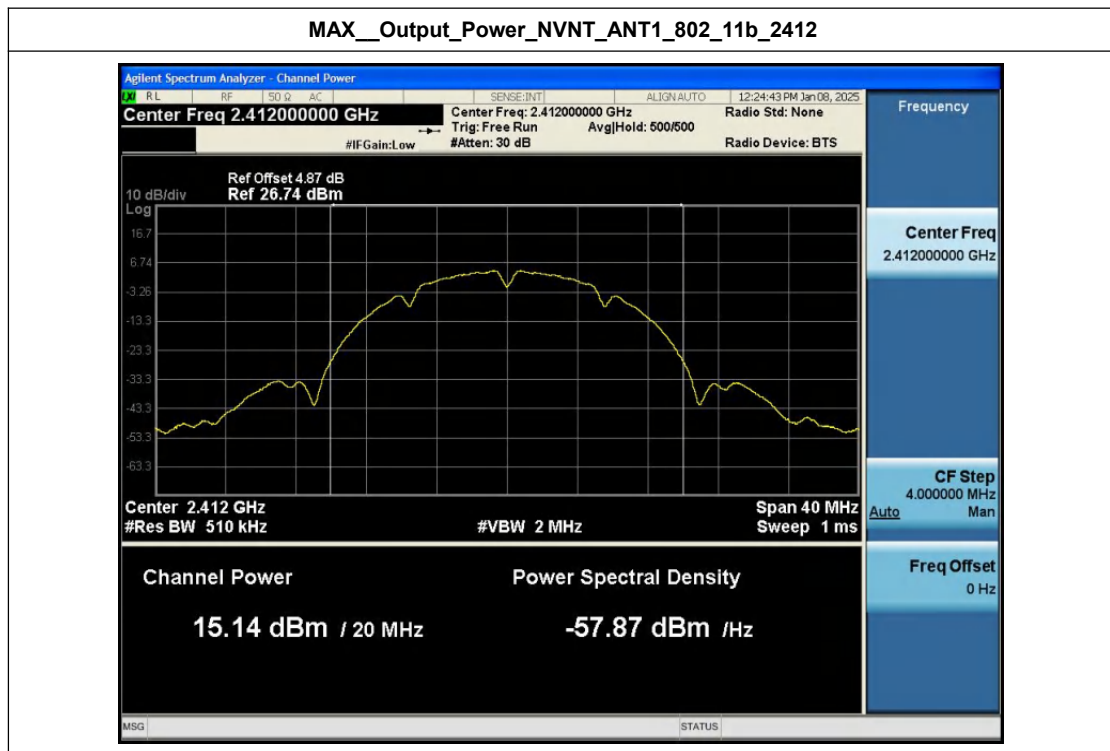
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Appendix D: MAX. Output Power

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	15.14	0.00	15.14	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	14.44	0.00	14.44	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	14.26	0.00	14.26	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	15.14	0.48	15.62	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.57	0.54	15.11	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.49	0.42	14.91	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	15.95	0.12	16.07	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	15.01	0.12	15.13	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.99	0.13	14.12	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	15.34	0.24	15.58	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	14.69	0.24	14.93	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	13.48	0.27	13.75	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

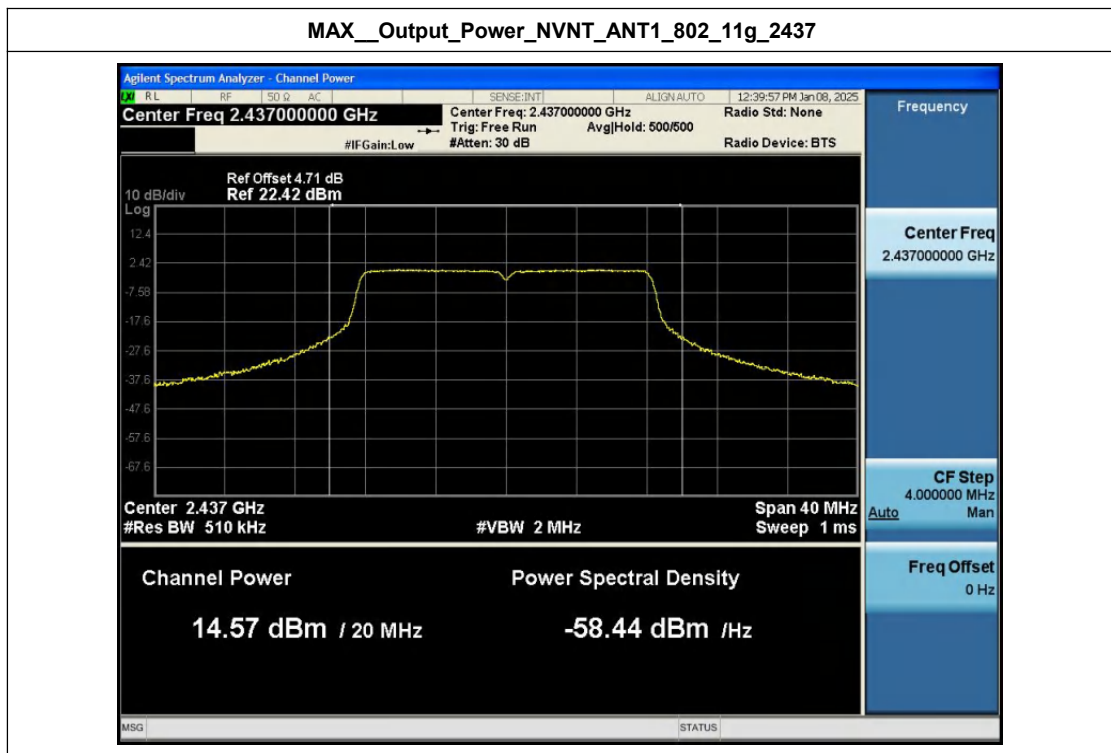


MAX_Output_Power_NVNT_ANT1_802_11g_2412



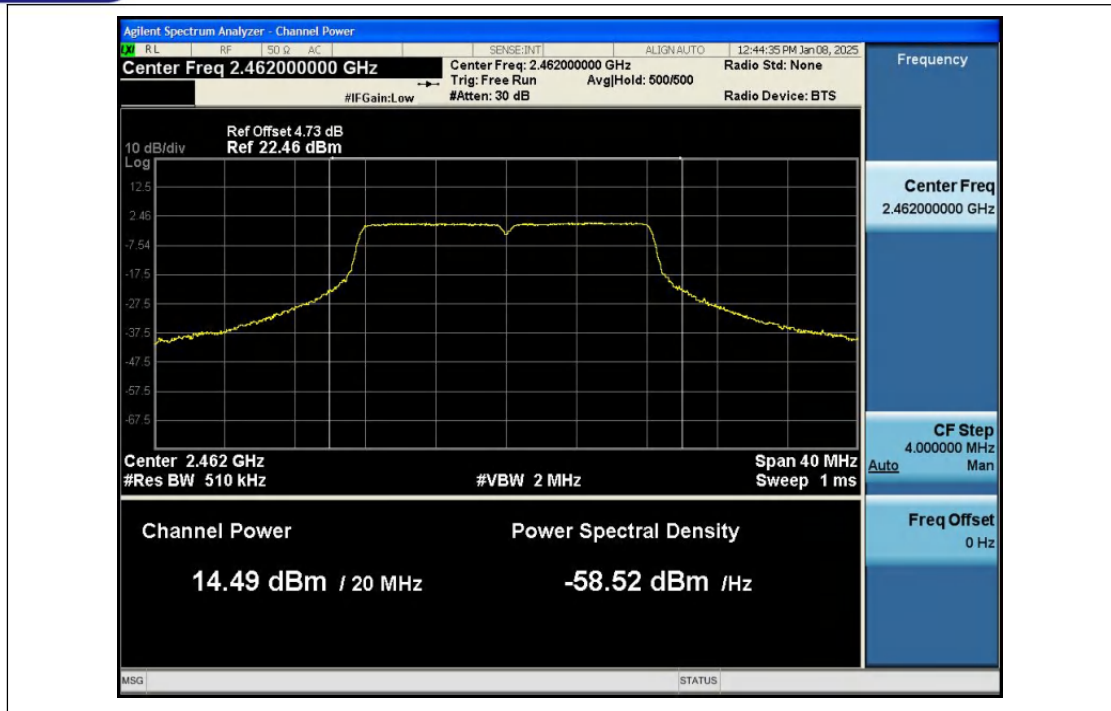


MAX__Output_Power_NVNT_ANT1_802_11g_2437

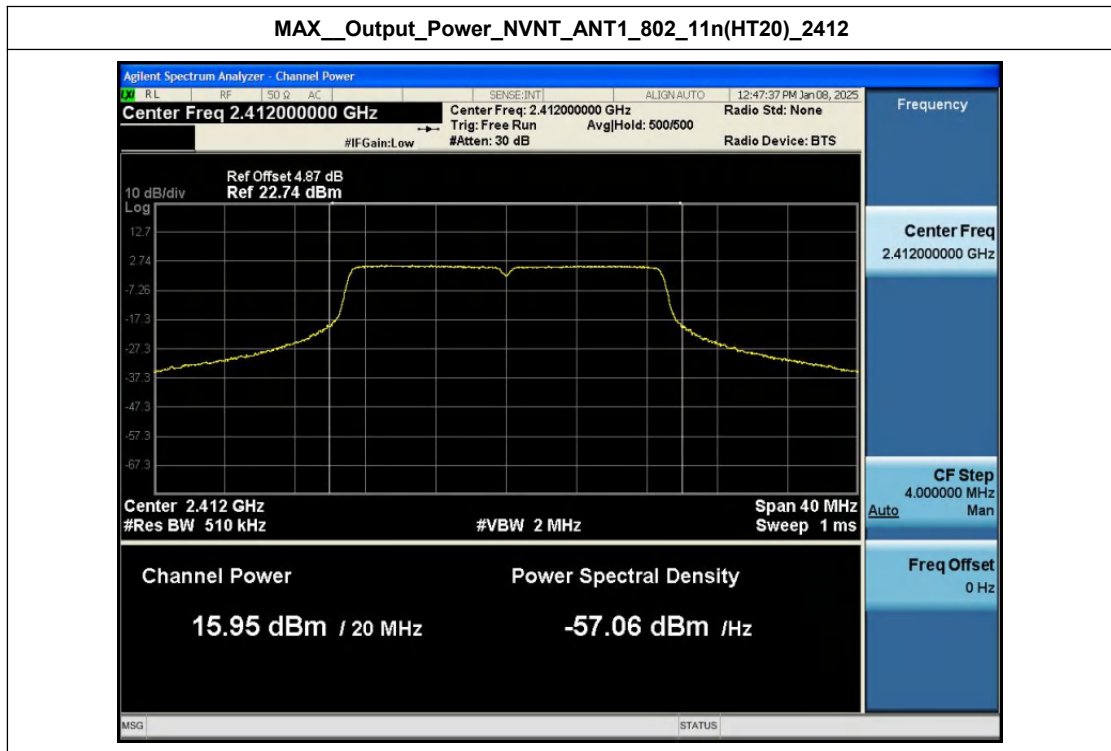


MAX__Output_Power_NVNT_ANT1_802_11g_2462



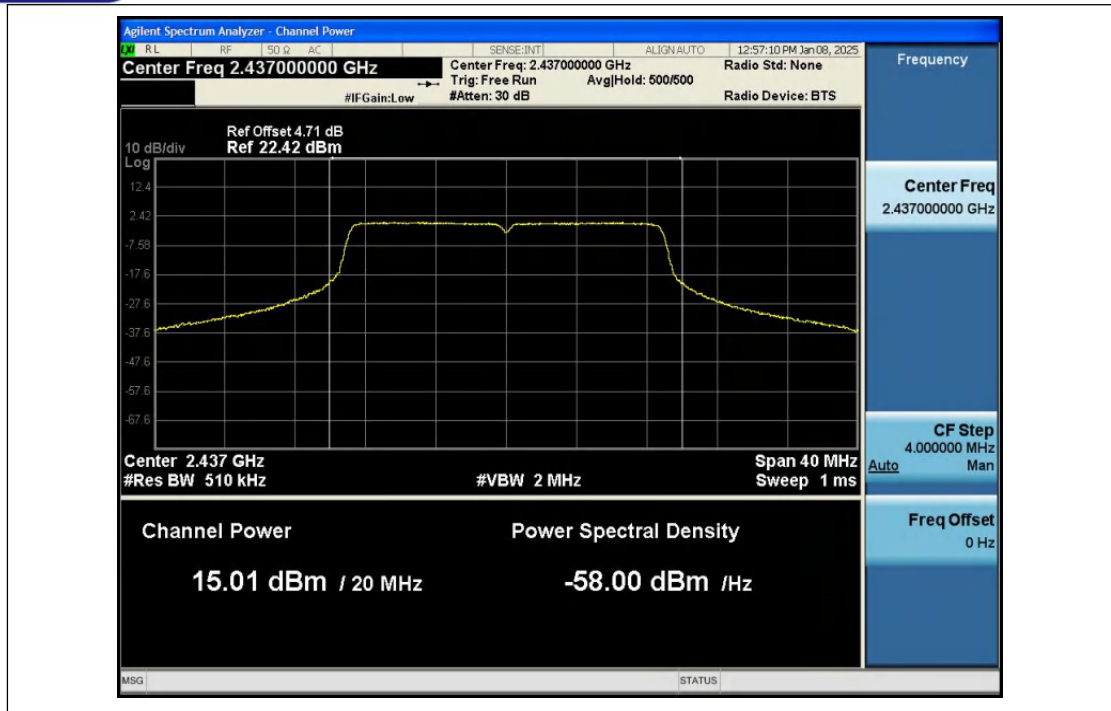


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412

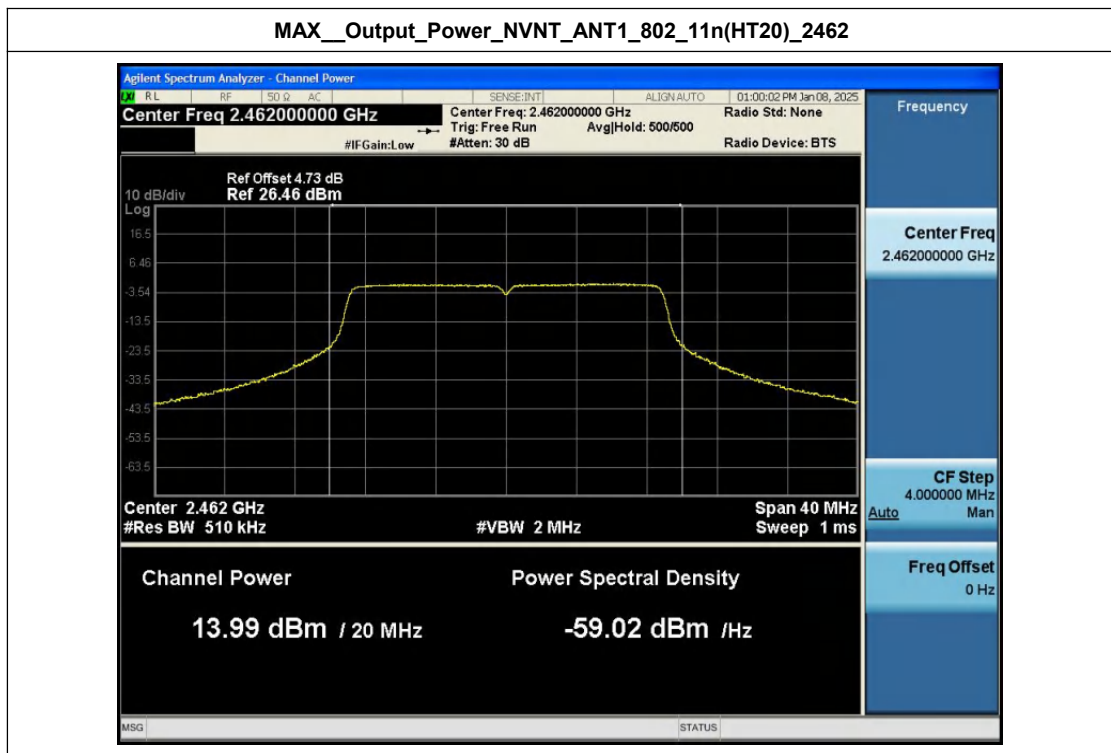


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



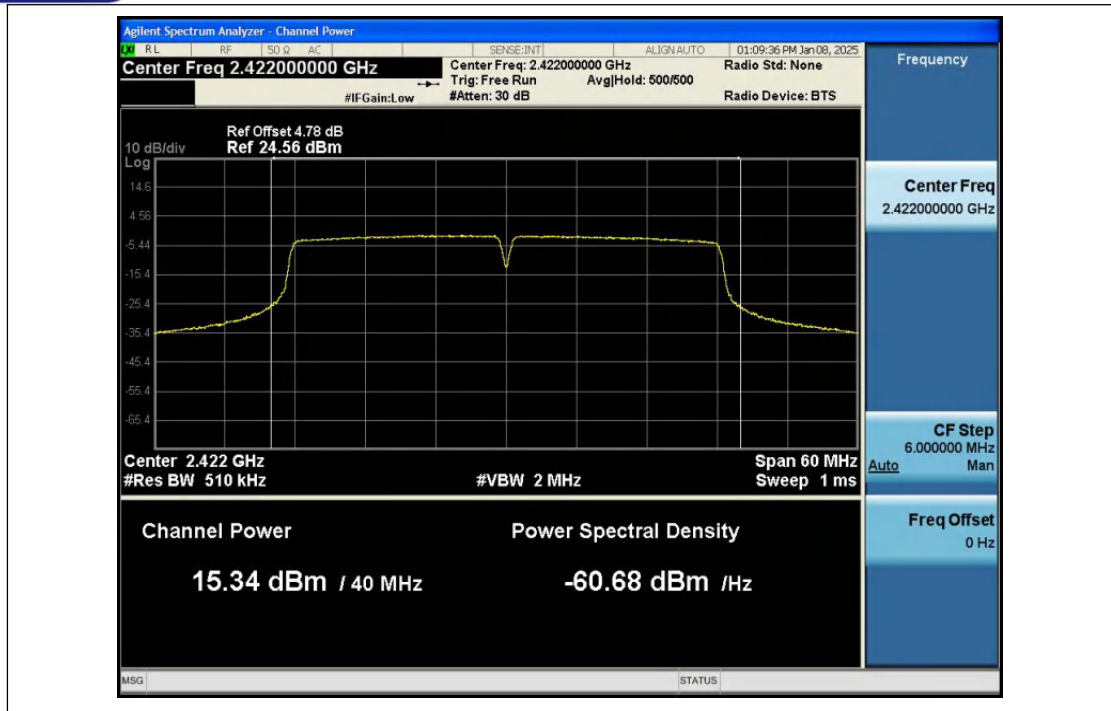


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462

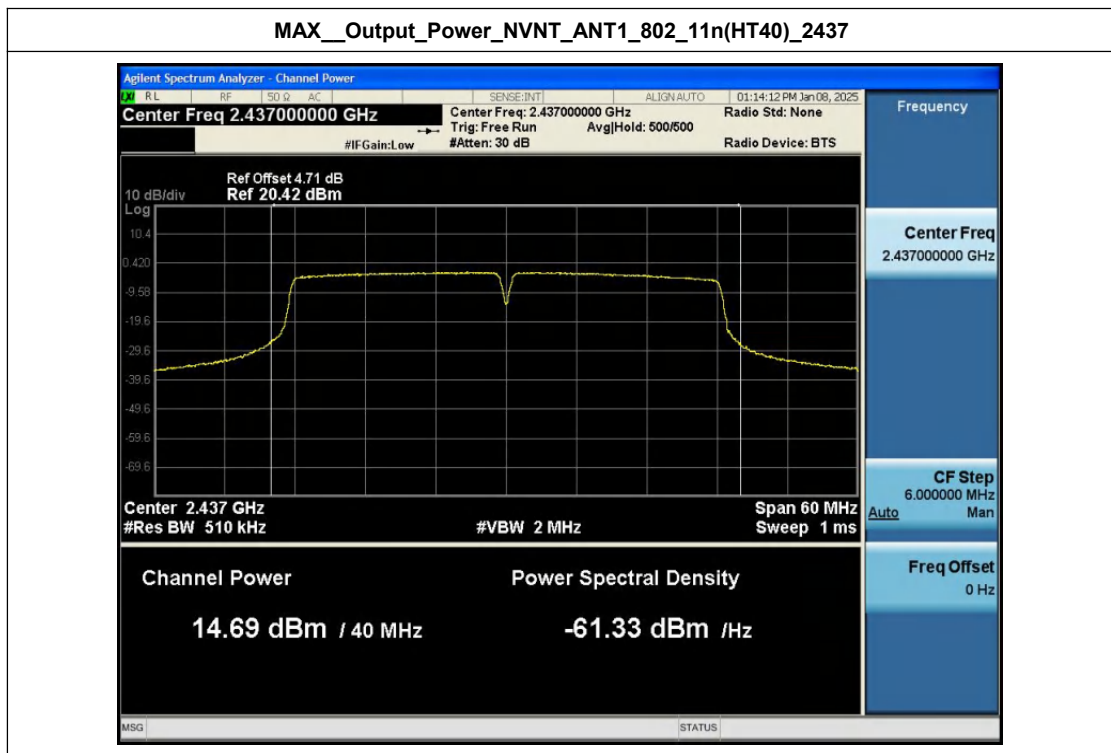


MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422



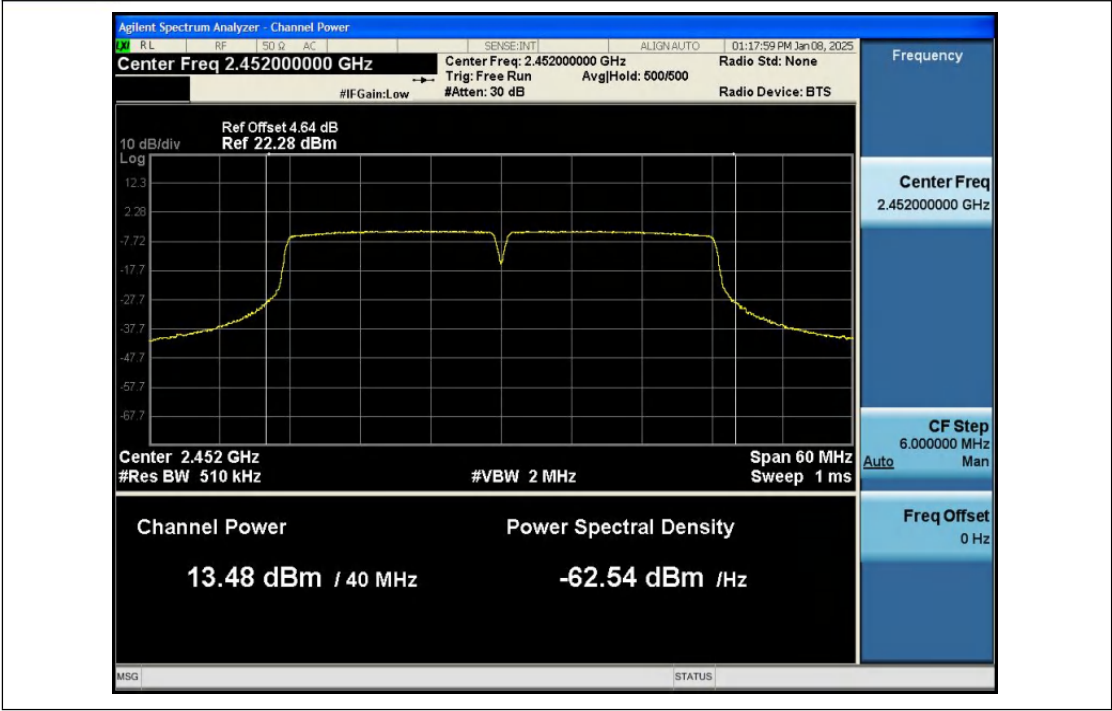


MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452





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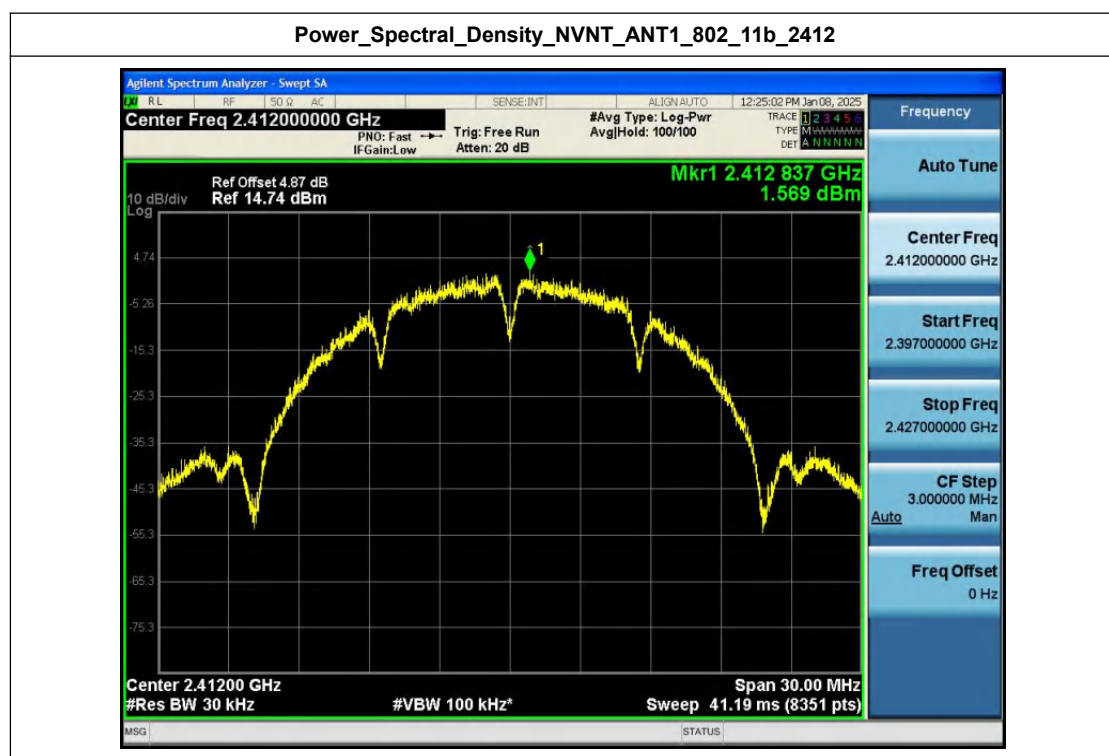
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Appendix E: Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.57	0.00	-10.00	-8.43	8	Pass
NVNT	ANT1	802.11b	2437.00	0.68	0.00	-10.00	-9.32	8	Pass
NVNT	ANT1	802.11b	2462.00	0.84	0.00	-10.00	-9.16	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.52	0.48	-10.00	-10.04	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.25	0.54	-10.00	-10.71	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.35	0.42	-10.00	-9.93	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-0.26	0.12	-10.00	-10.14	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-1.35	0.12	-10.00	-11.23	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-1.76	0.13	-10.00	-11.63	8	Pass
NVNT	ANT1	802.11n(HT 40)	2422.00	-3.98	0.24	-10.00	-13.73	8	Pass
NVNT	ANT1	802.11n(HT 40)	2437.00	-4.27	0.24	-10.00	-14.03	8	Pass
NVNT	ANT1	802.11n(HT 40)	2452.00	-5.90	0.27	-10.00	-15.63	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

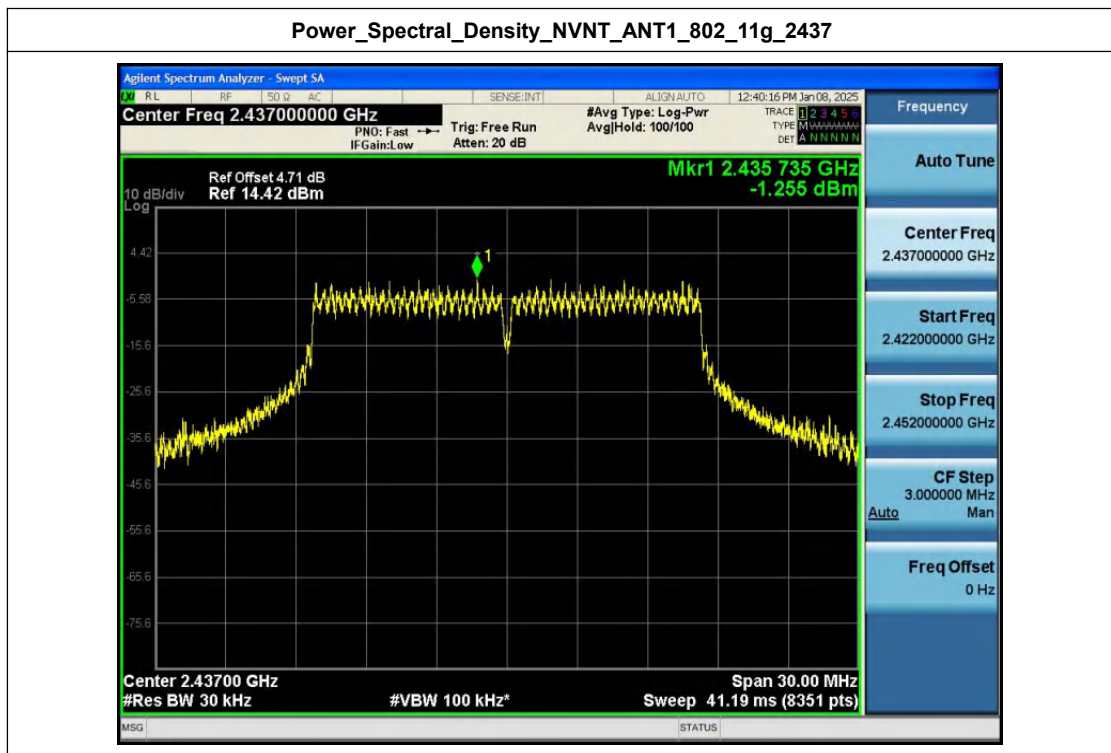


Power_Spectral_Density_NVNT_ANT1_802_11g_2412



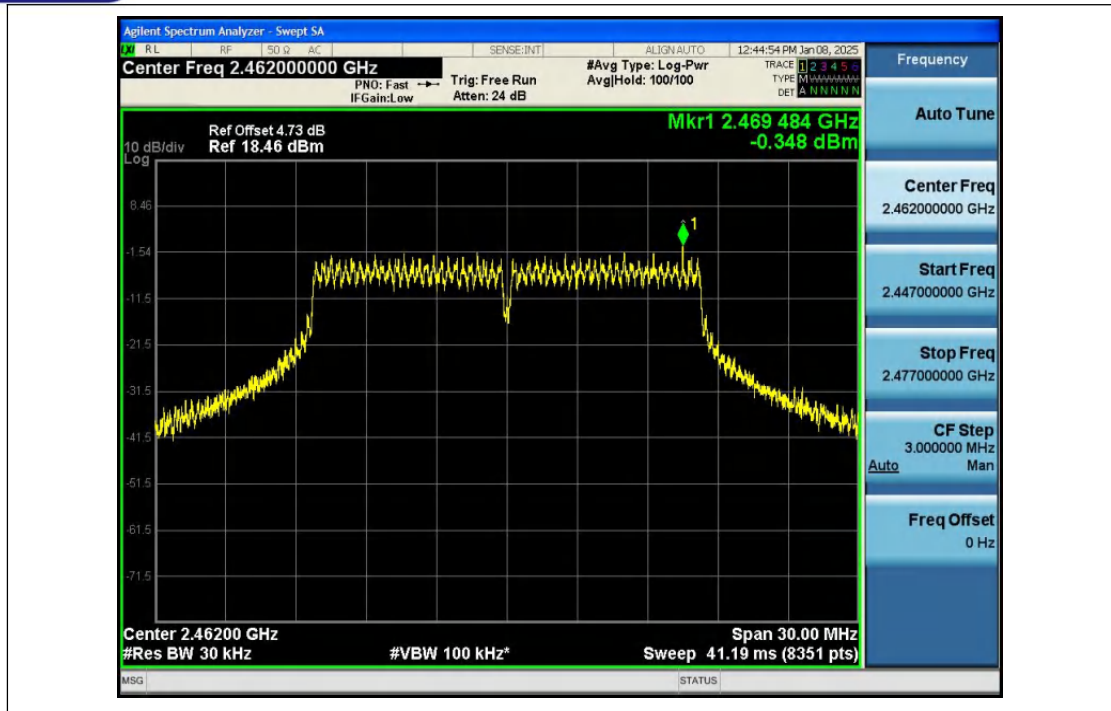


Power_Spectral_Density_NVNT_ANT1_802_11g_2437

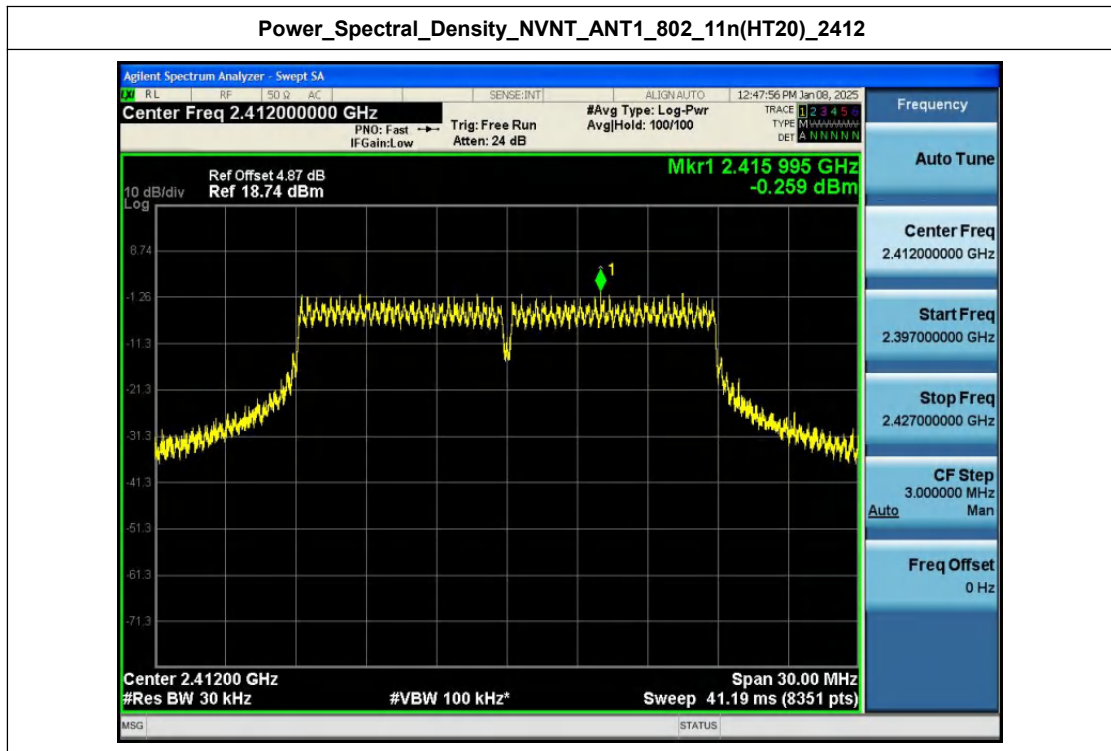


Power_Spectral_Density_NVNT_ANT1_802_11g_2462



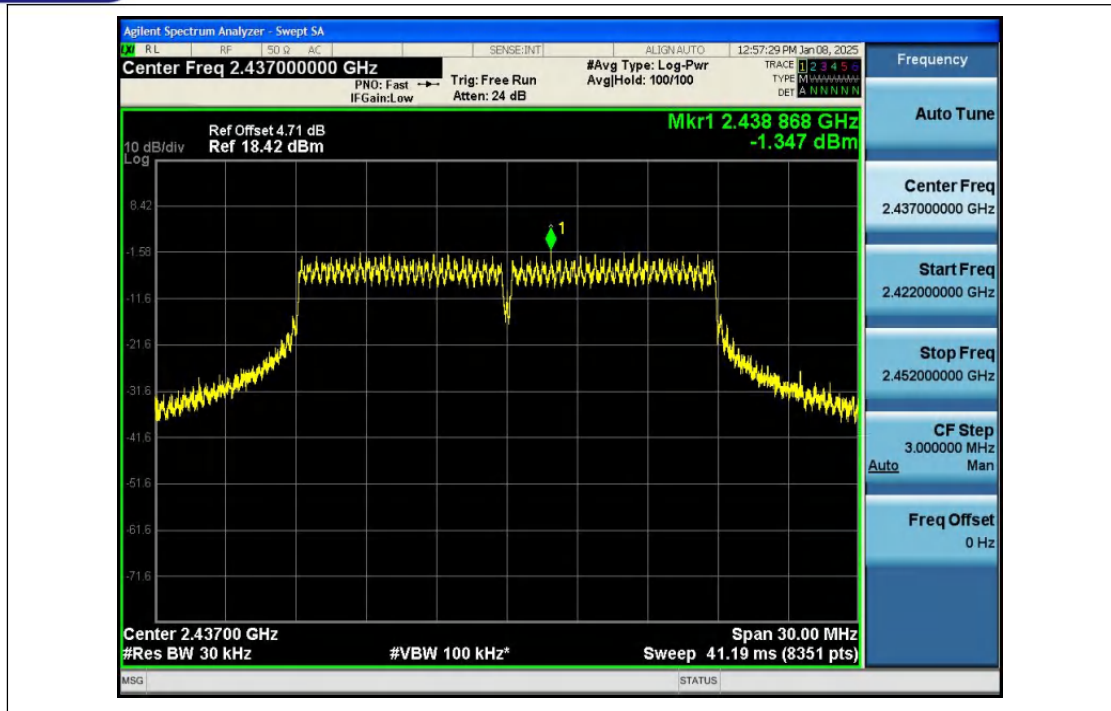


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412

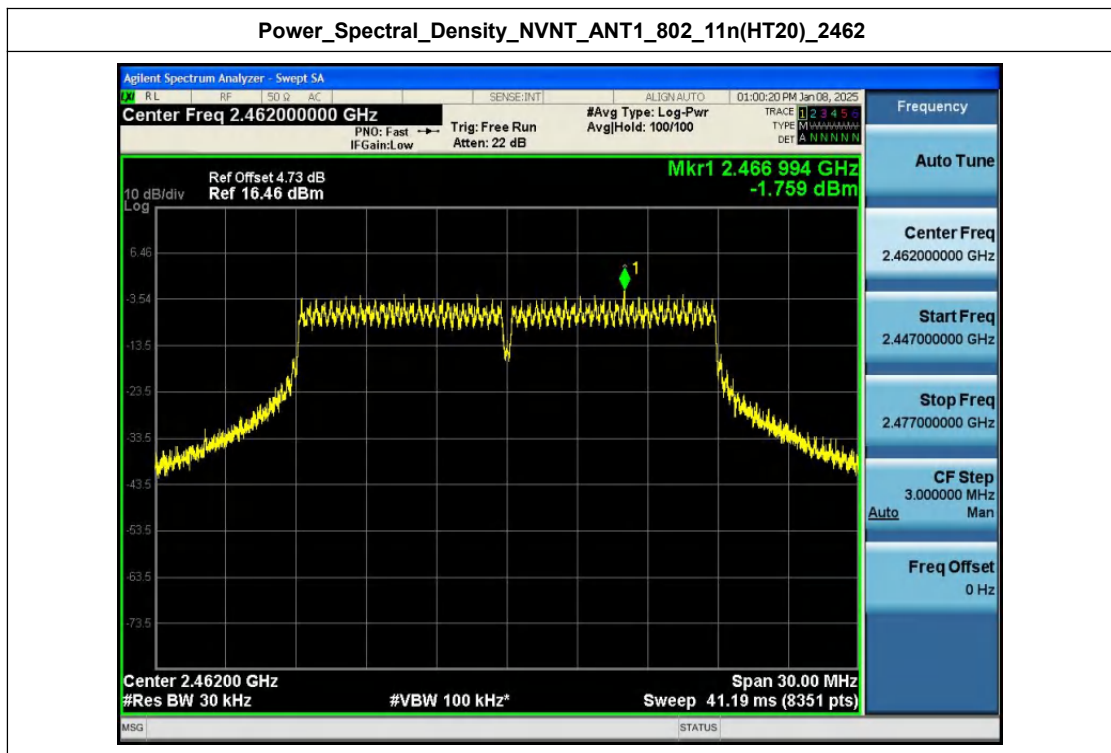


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



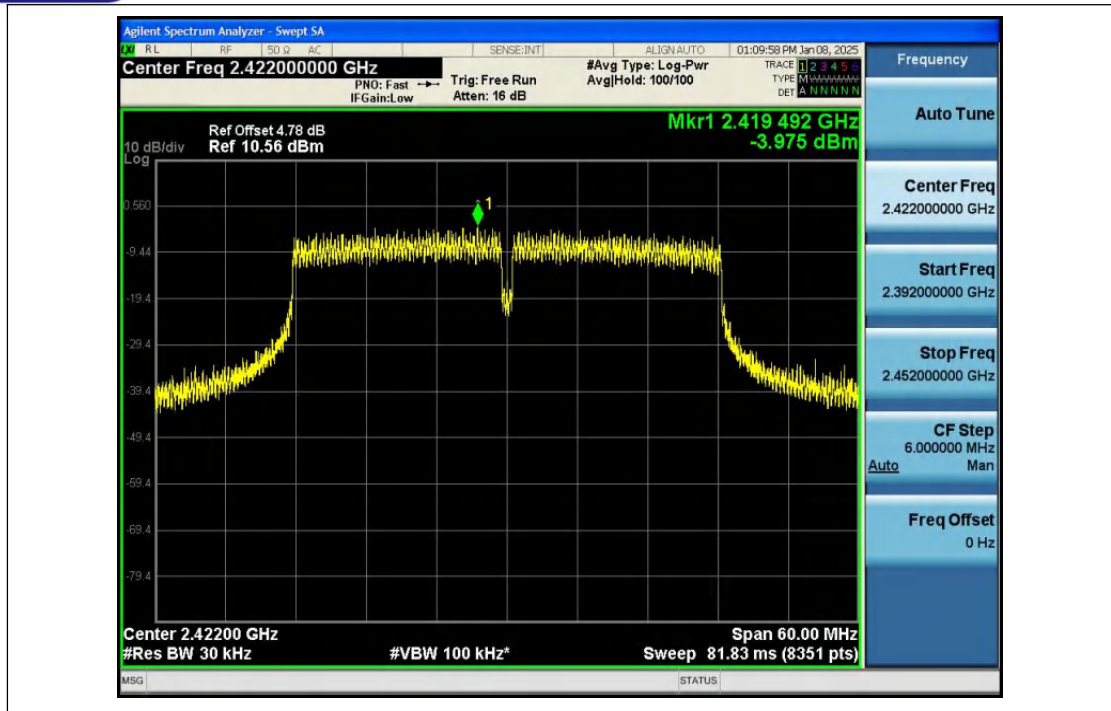


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462

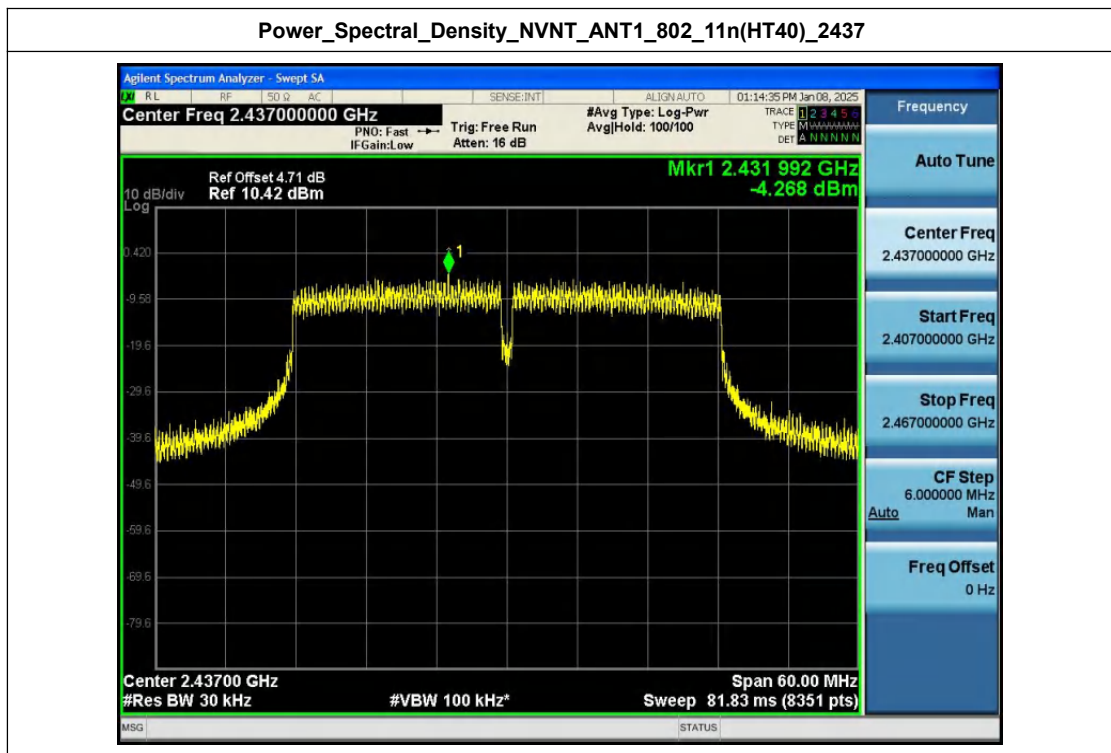


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



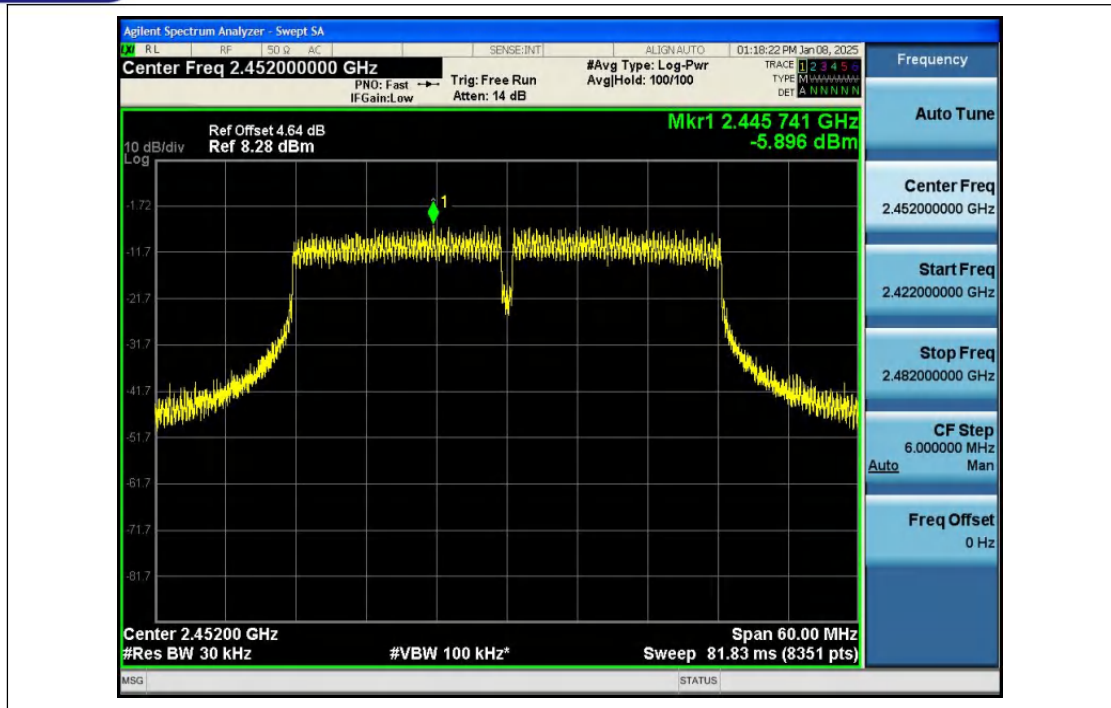


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452





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Appendix F: Bandedge

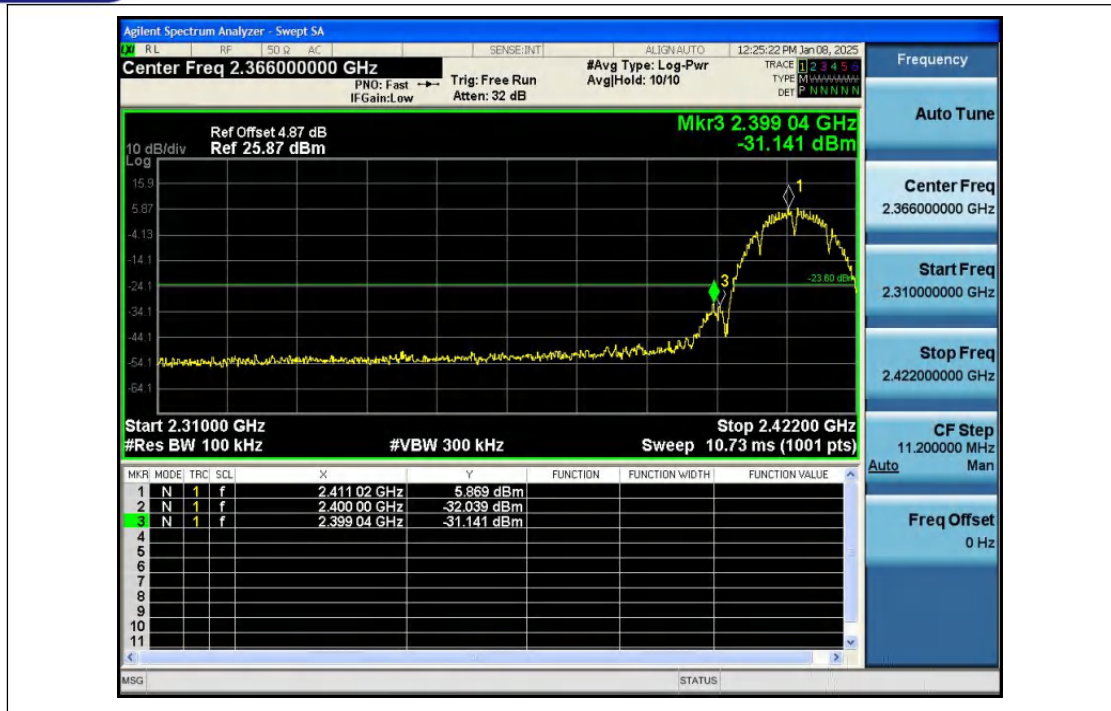
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.040	6.402	-31.141	-23.598	Pass
NVNT	ANT1	802.11b	2462.00	2485.504	5.389	-48.580	-24.611	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	1.999	-31.512	-28.001	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	3.240	-34.508	-26.760	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	1.413	-31.154	-28.587	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.496	2.830	-38.665	-27.170	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	1.543	-30.097	-28.457	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.632	-0.294	-34.640	-30.294	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

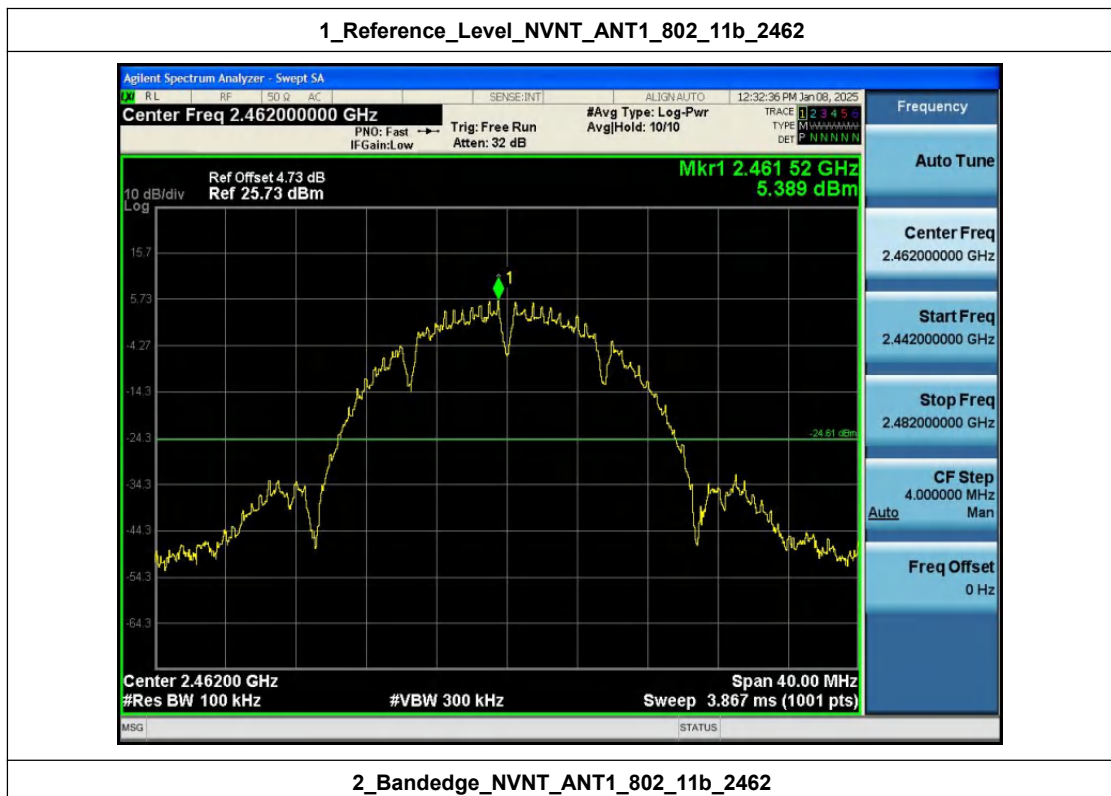


2_Bandedge_NVNT_ANT1_802_11b_2412





1_Reference_Level_NVNT_ANT1_802_11b_2462

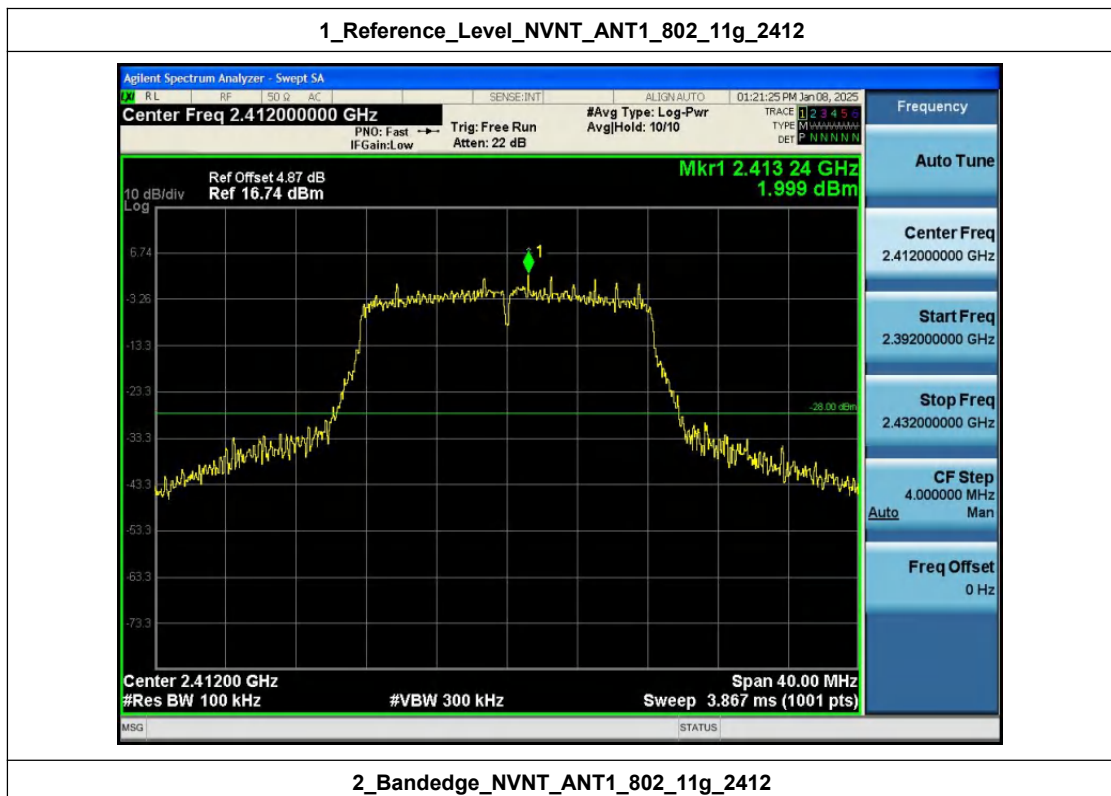


2_Bandedge_NVNT_ANT1_802_11b_2462





1_Reference_Level_NVNT_ANT1_802_11g_2412

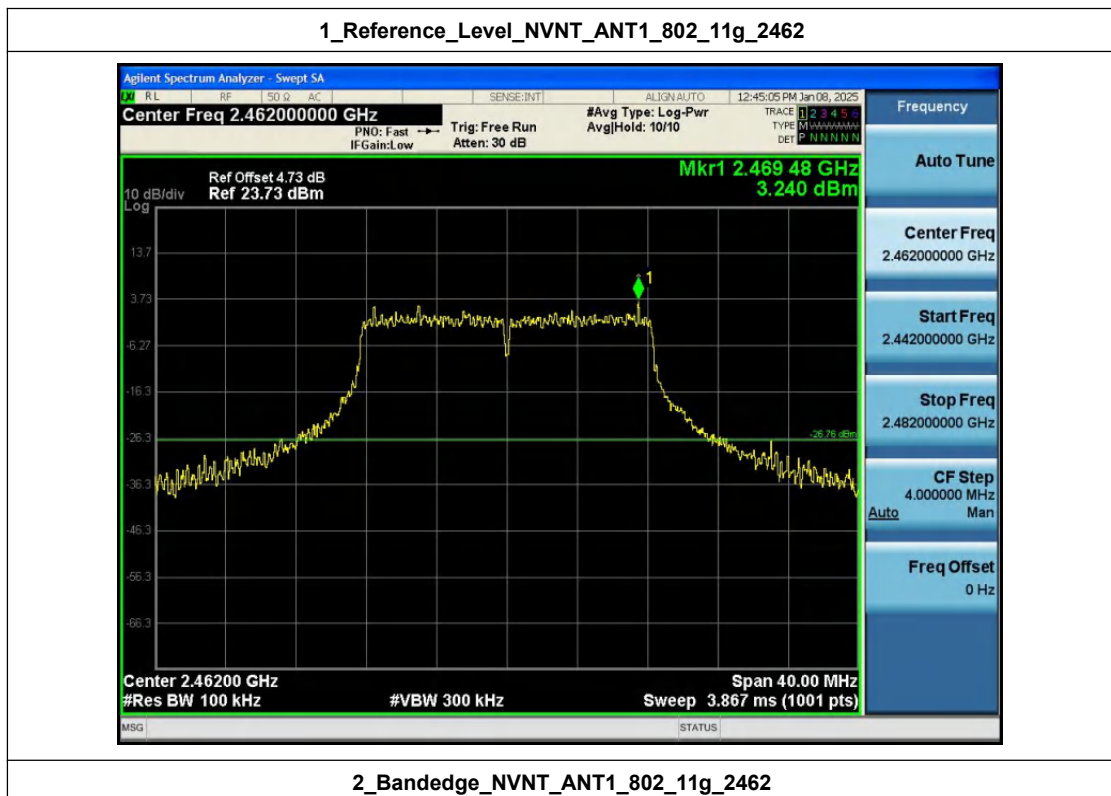


2_Bandedge_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2462

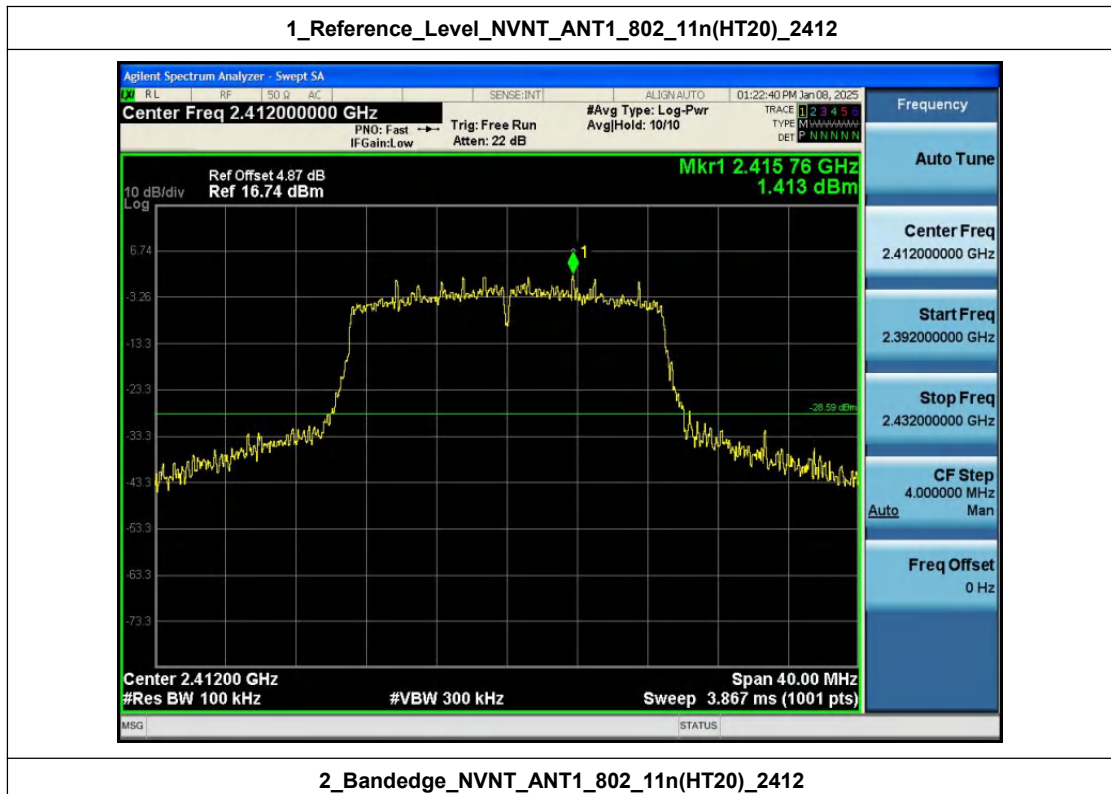


2_Bandedge_NVNT_ANT1_802_11g_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

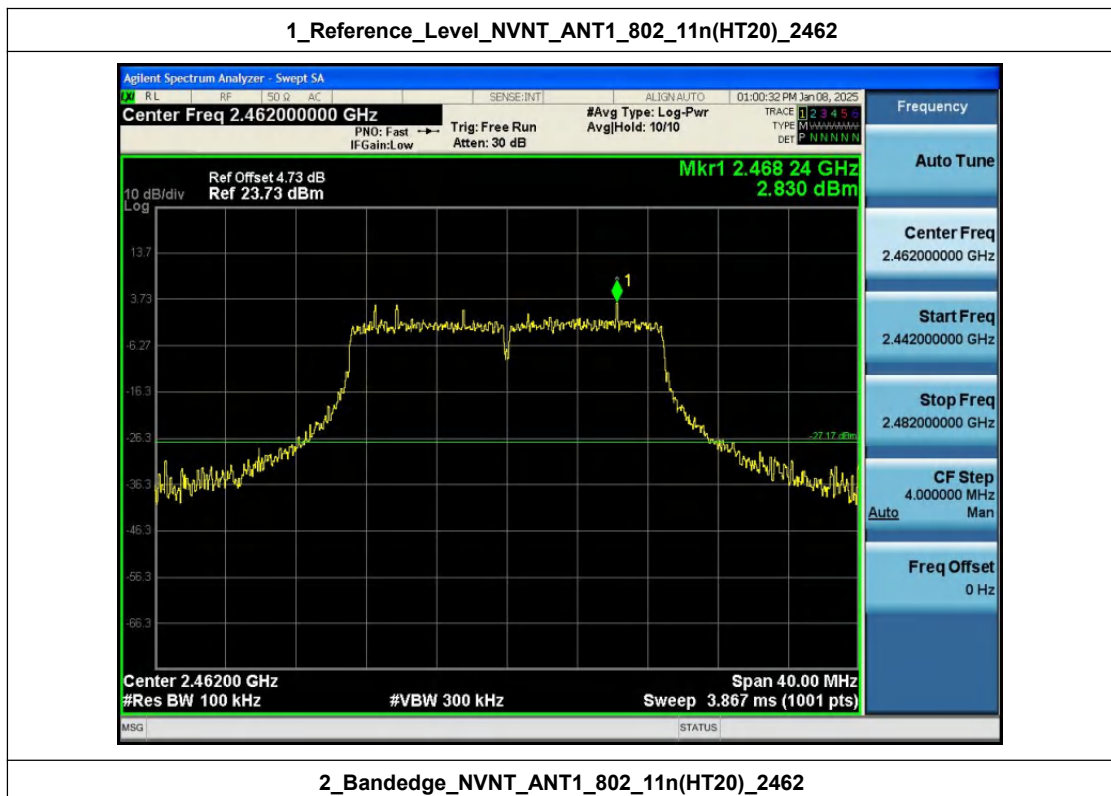


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

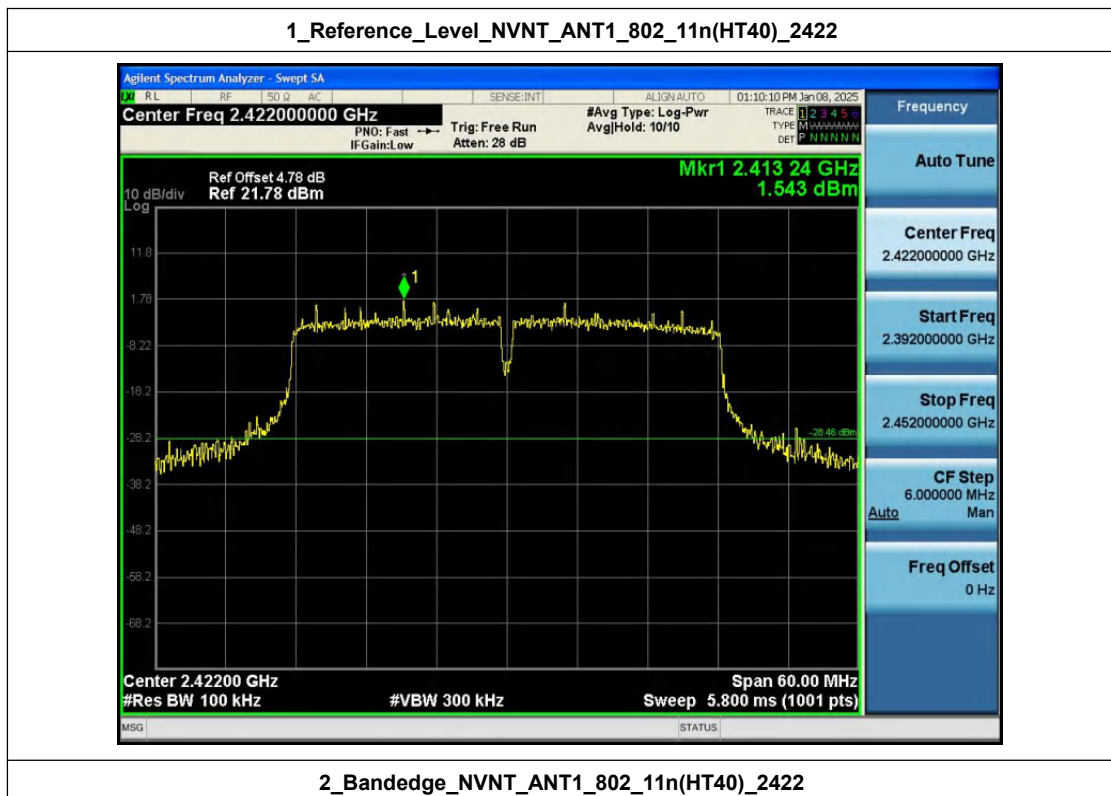


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

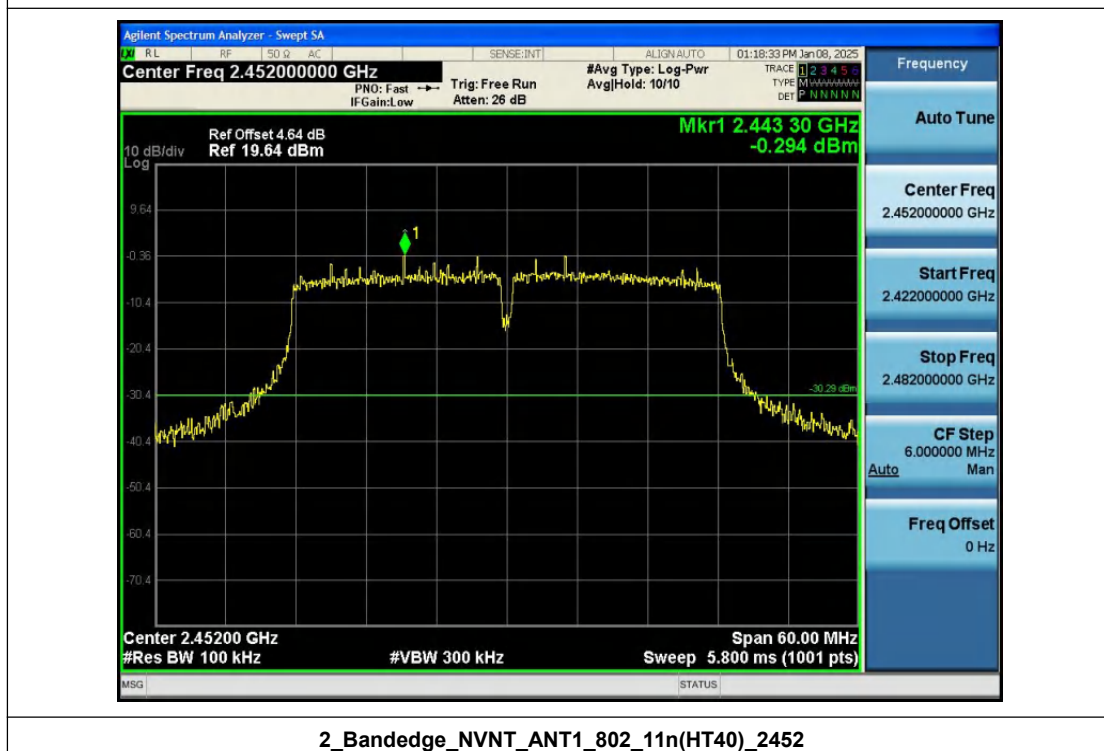


2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422





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_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24315.822	6.402	-41.759	-23.598	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	5.327	-48.164	-24.673	Pass
NVNT	ANT1	802.11b	2462.00	24882.641	5.389	-42.598	-24.611	Pass
NVNT	ANT1	802.11g	2412.00	24882.641	4.478	-46.185	-25.522	Pass
NVNT	ANT1	802.11g	2437.00	24952.557	3.512	-49.262	-26.488	Pass
NVNT	ANT1	802.11g	2462.00	24340.792	3.240	-44.990	-26.760	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24975.030	4.954	-44.633	-25.046	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24935.078	3.744	-44.456	-26.256	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24837.695	2.830	-43.805	-27.170	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24805.234	1.543	-44.644	-28.457	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24812.725	1.060	-44.294	-28.940	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24877.647	-0.294	-47.010	-30.294	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Spurious_Emission_NVNT_ANT1_802_11b_2412

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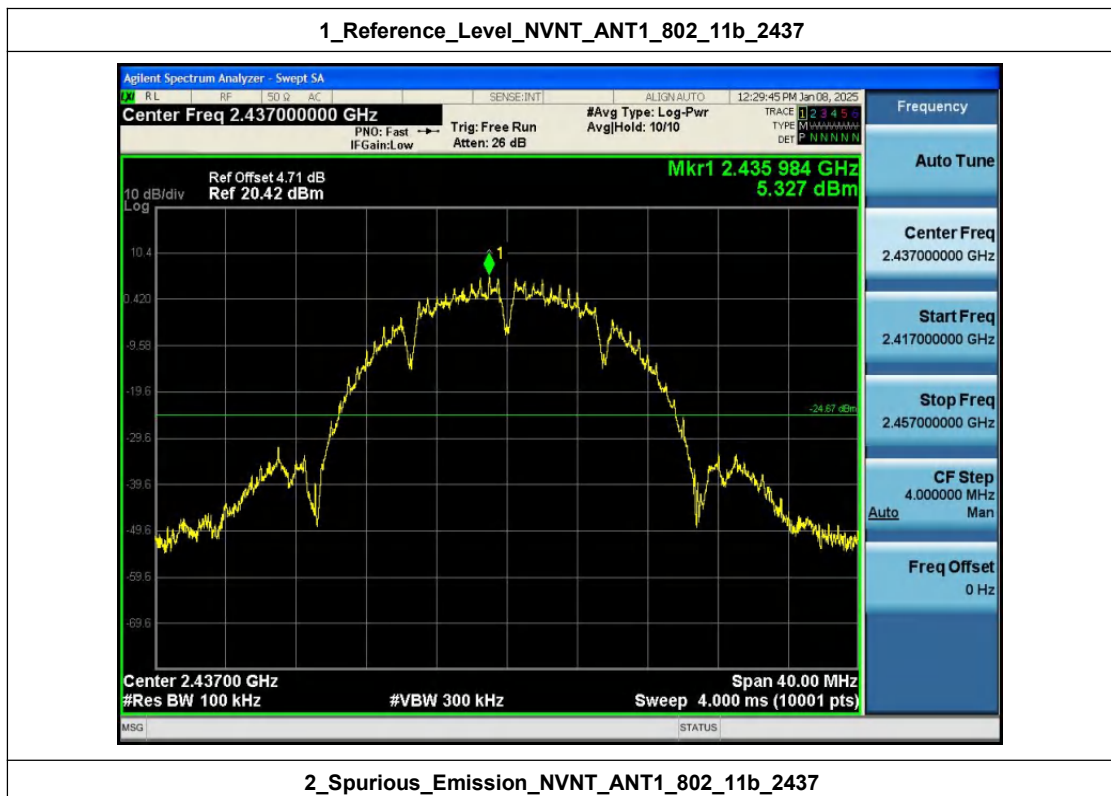


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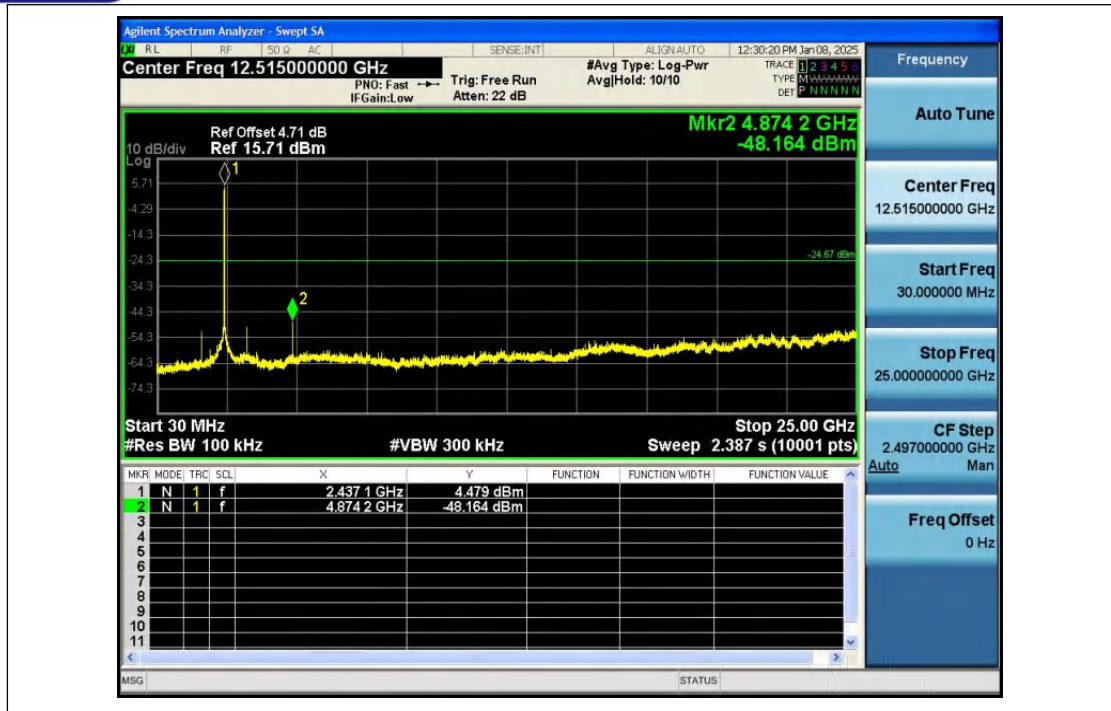


1_Reference_Level_NVNT_ANT1_802_11b_2437

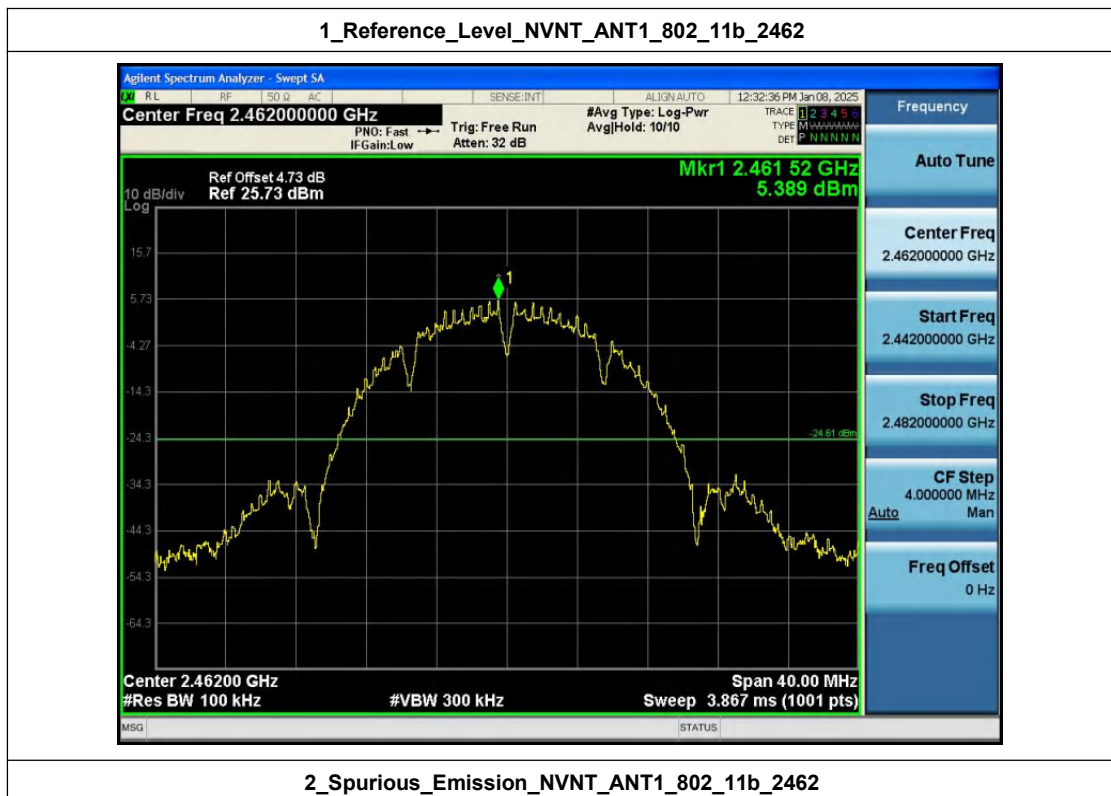


2_Spurious_Emission_NVNT_ANT1_802_11b_2437



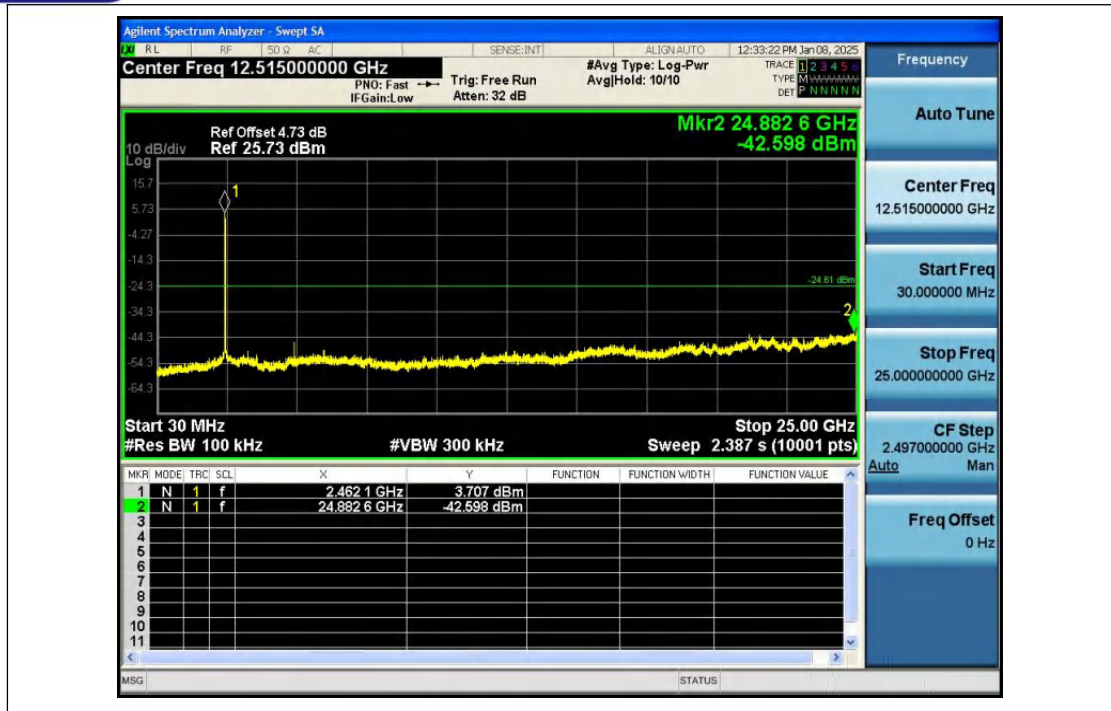


1_Reference_Level_NVNT_ANT1_802_11b_2462

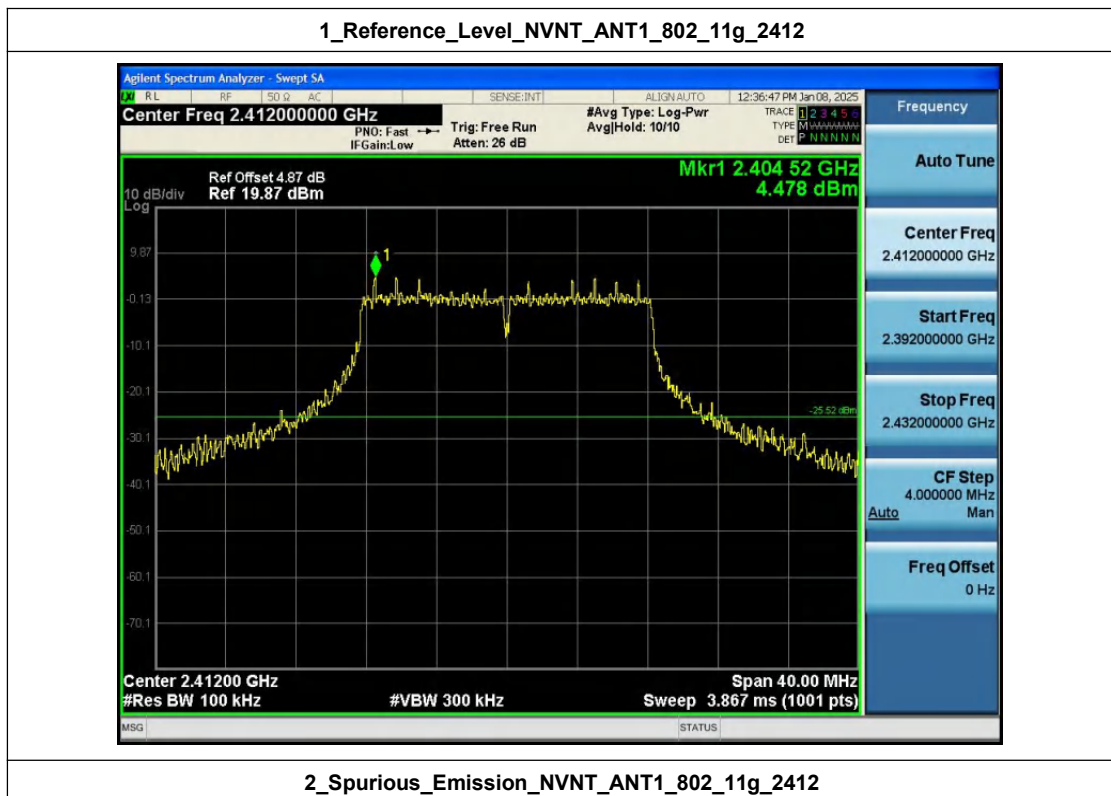


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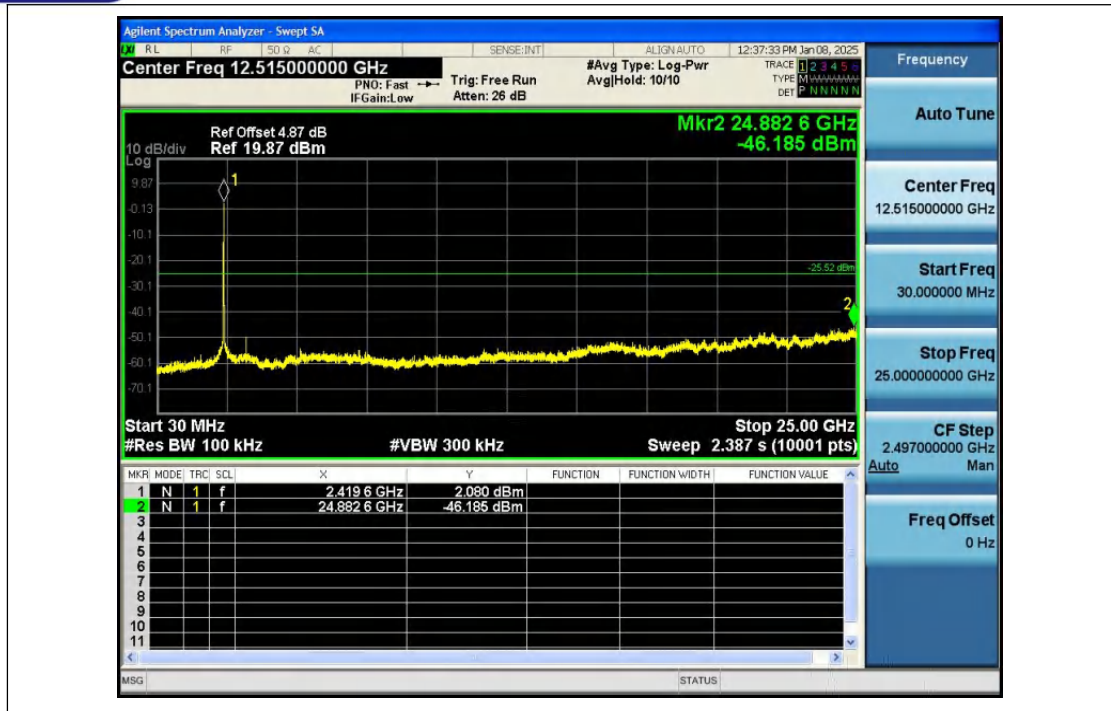


1_Reference_Level_NVNT_ANT1_802_11g_2412

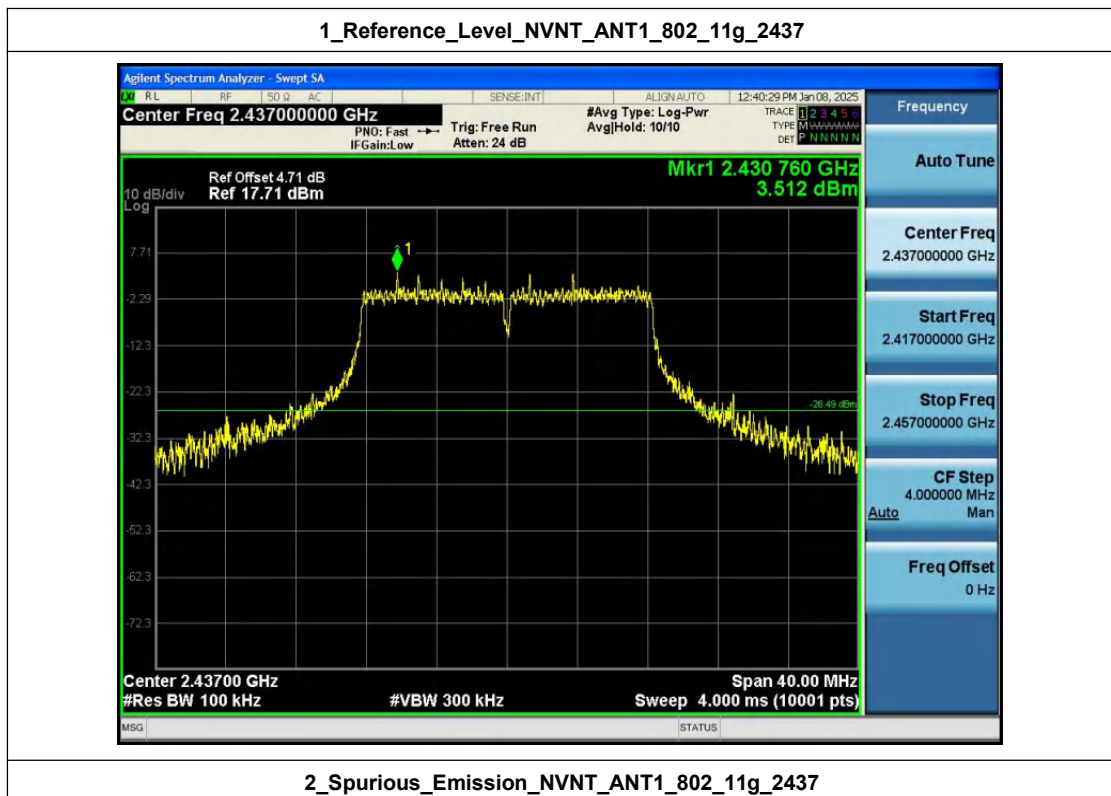


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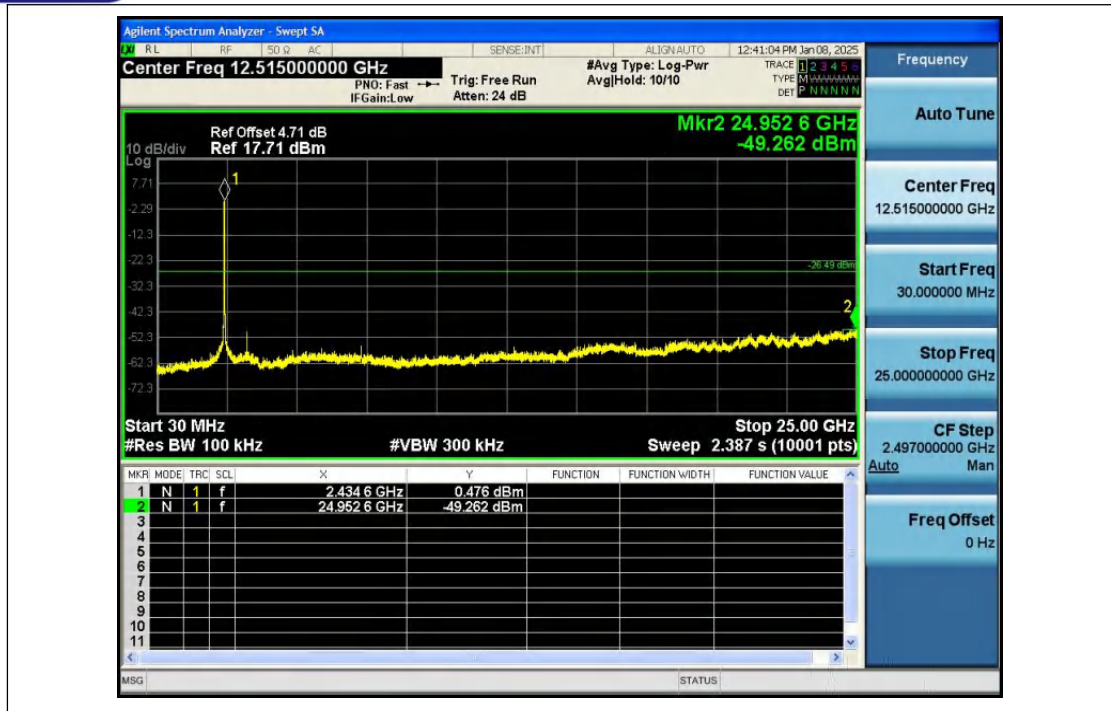


1_Reference_Level_NVNT_ANT1_802_11g_2437

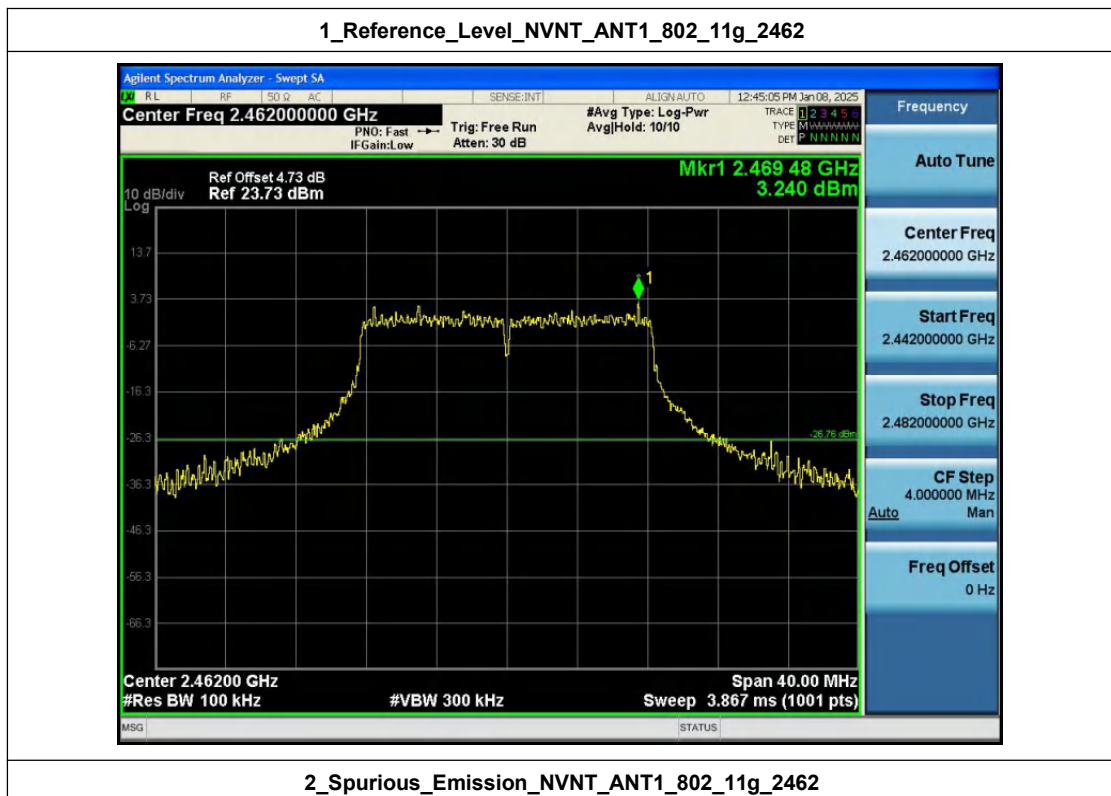


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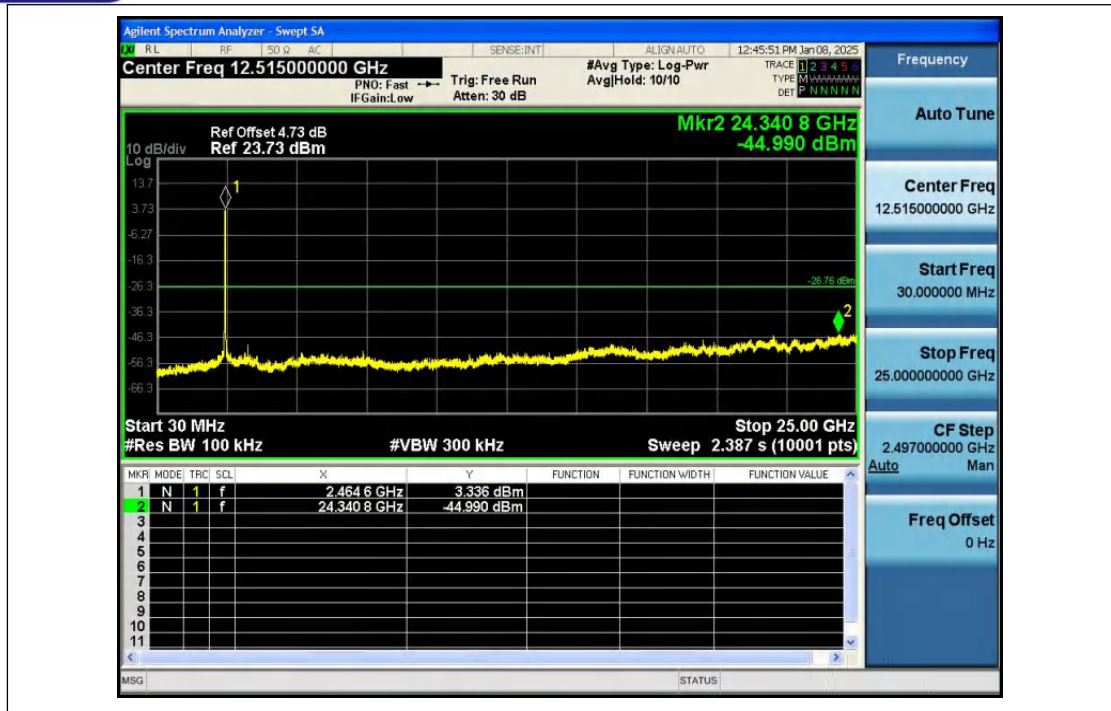


1_Reference_Level_NVNT_ANT1_802_11g_2462

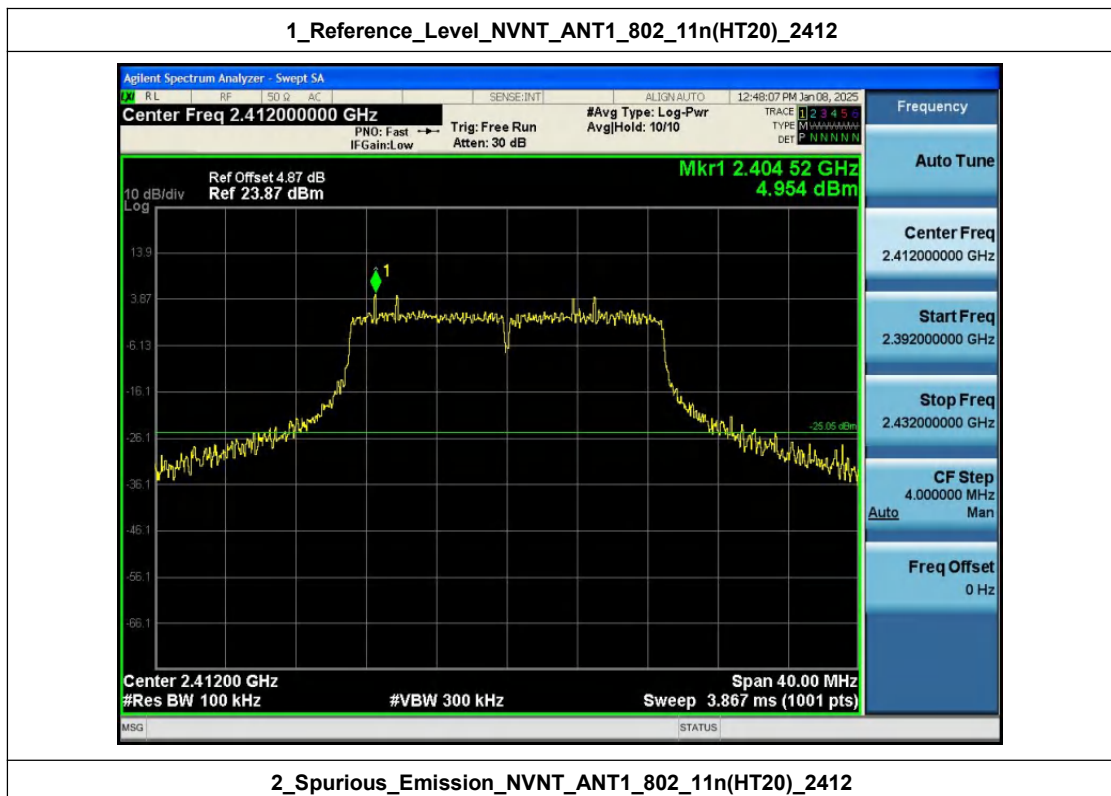


2_Spurious_Emission_NVNT_ANT1_802_11g_2462



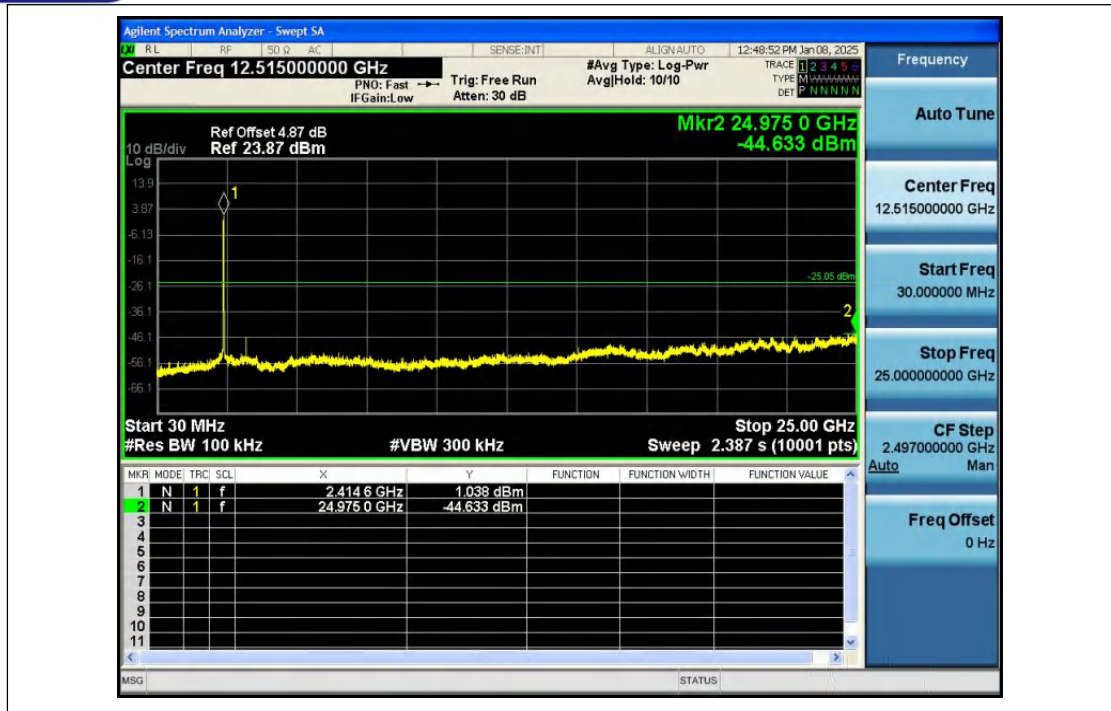


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

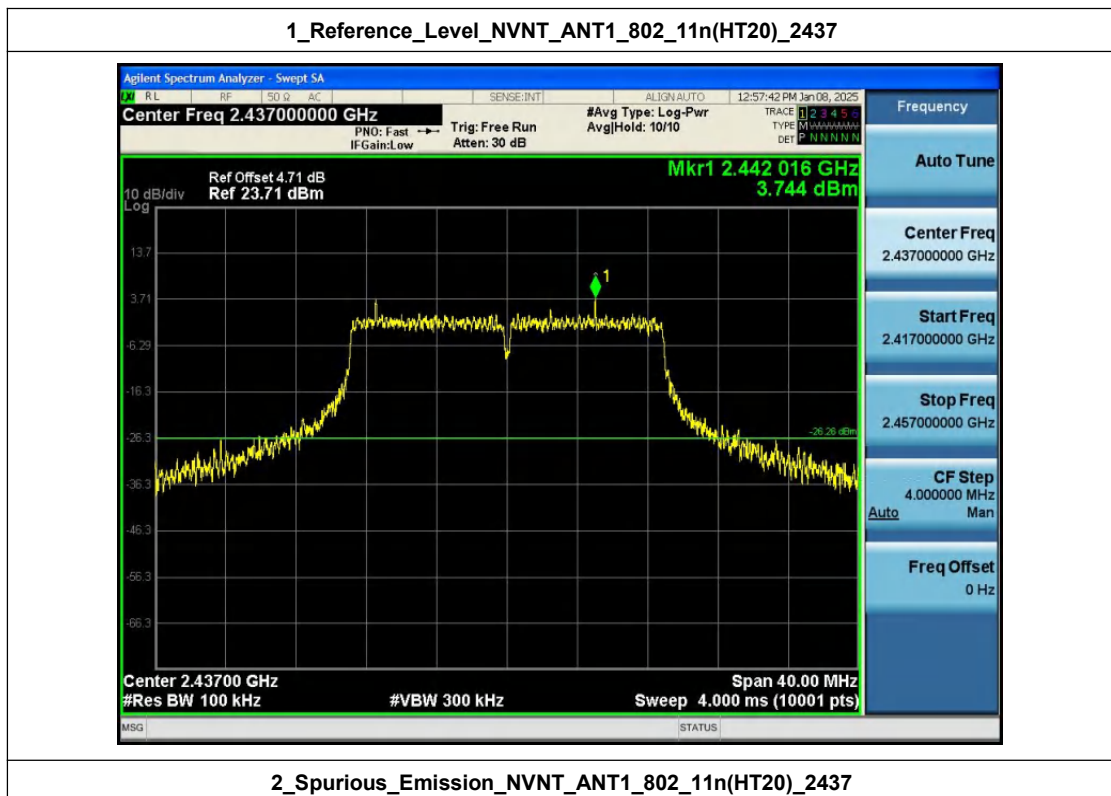


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



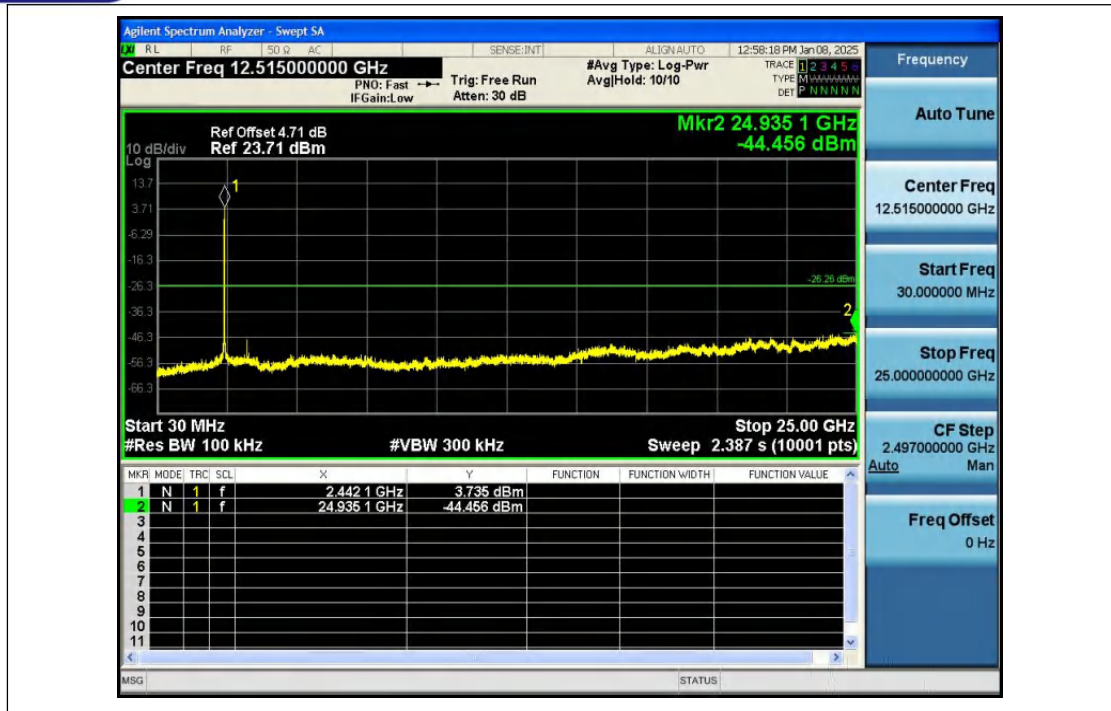


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437

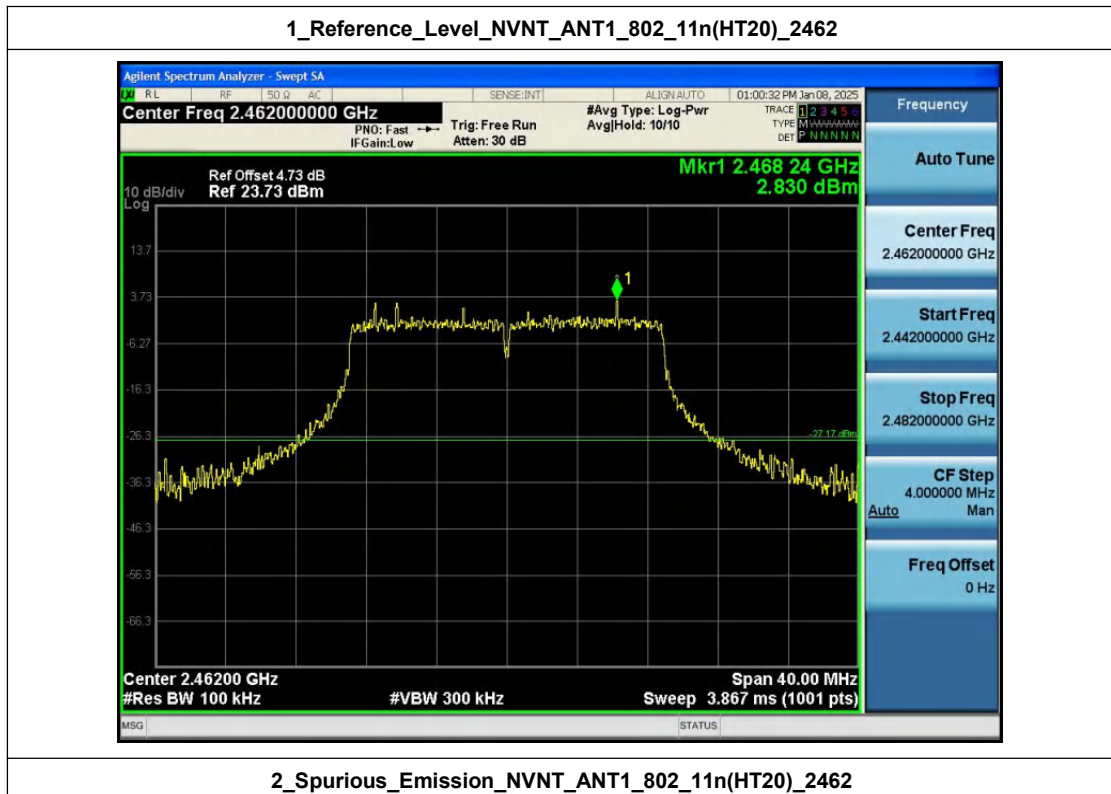


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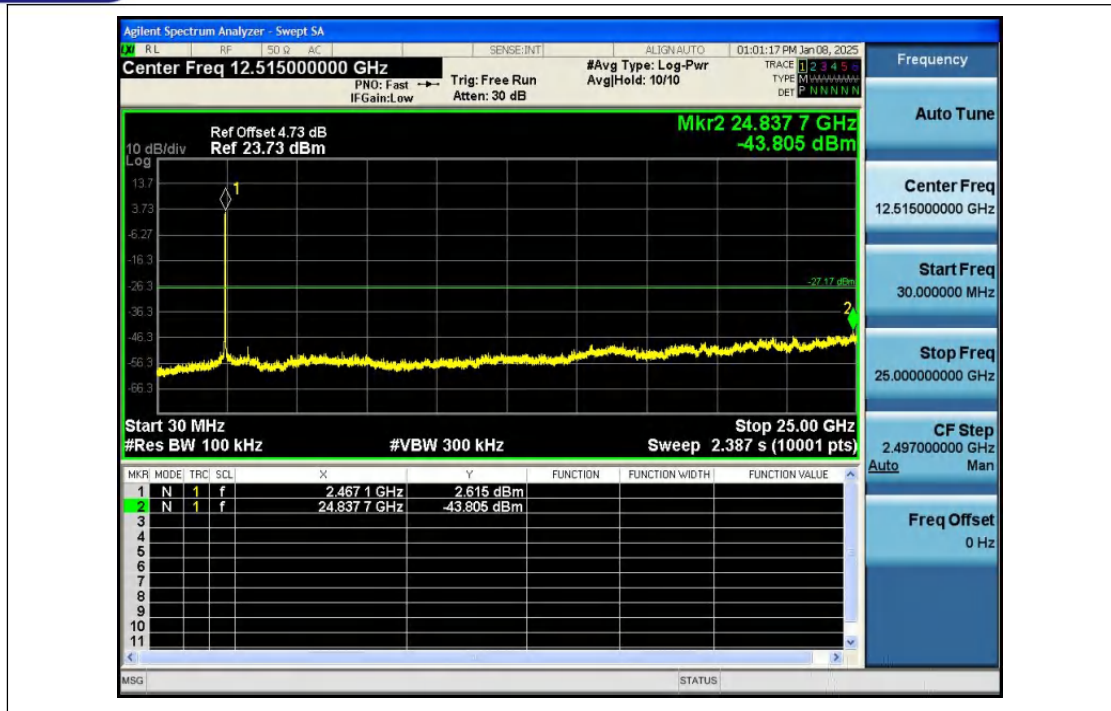


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

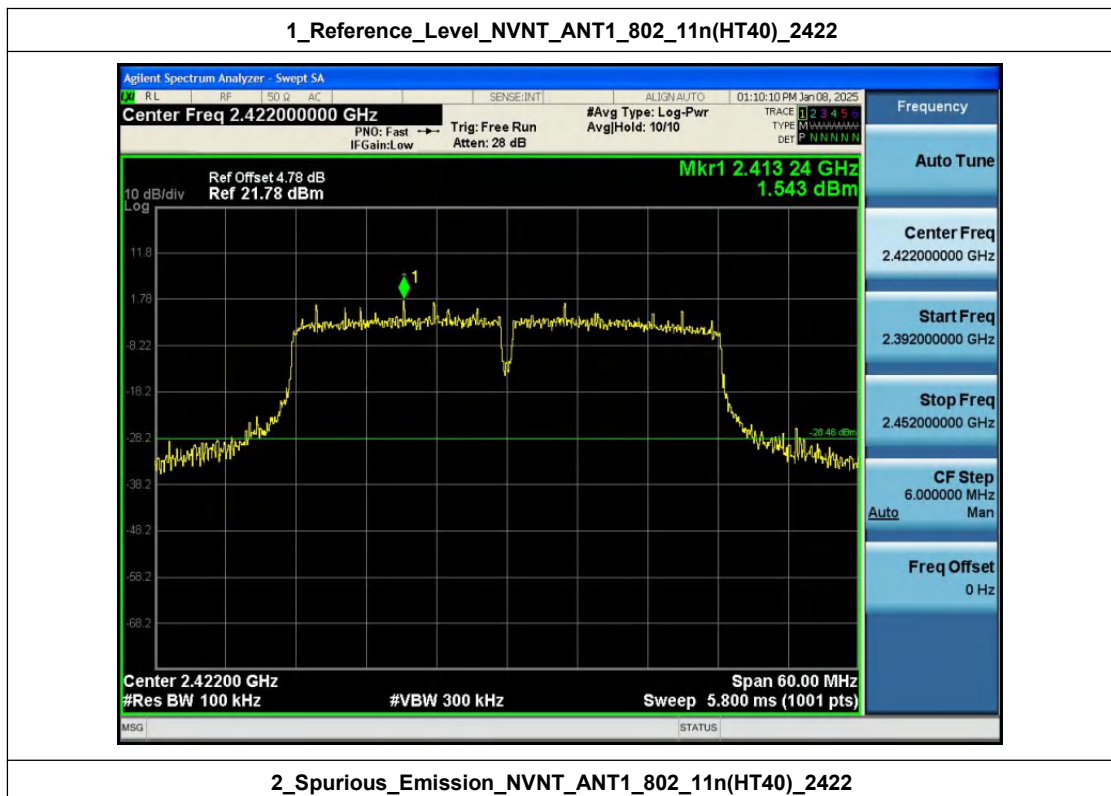


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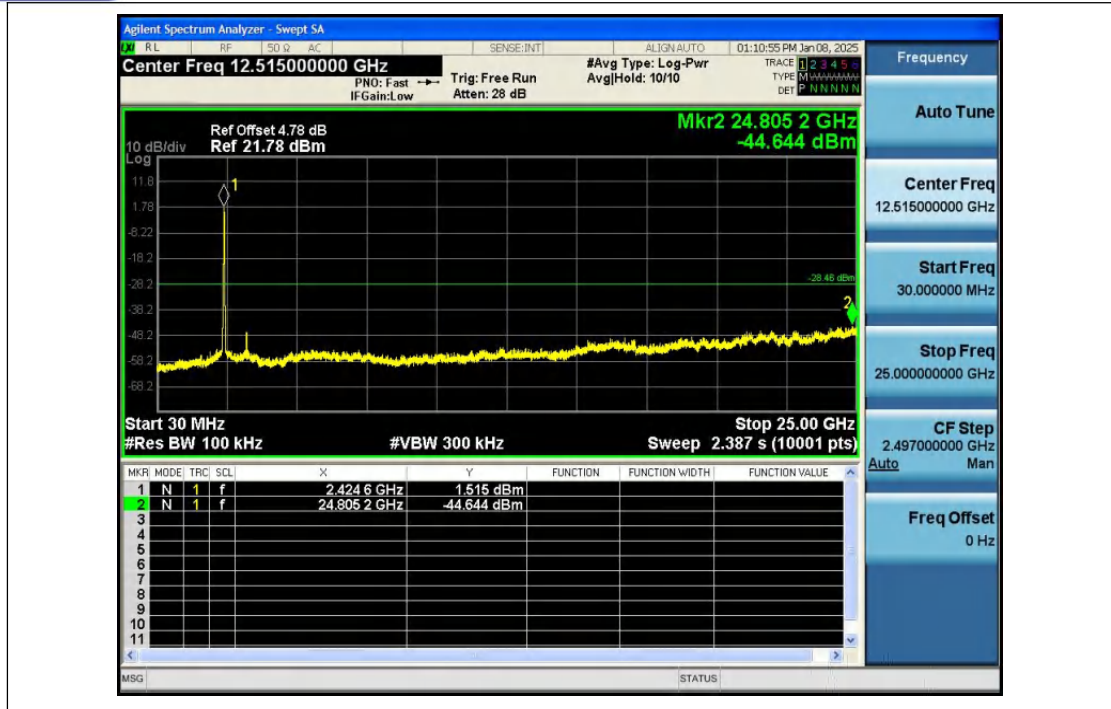


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

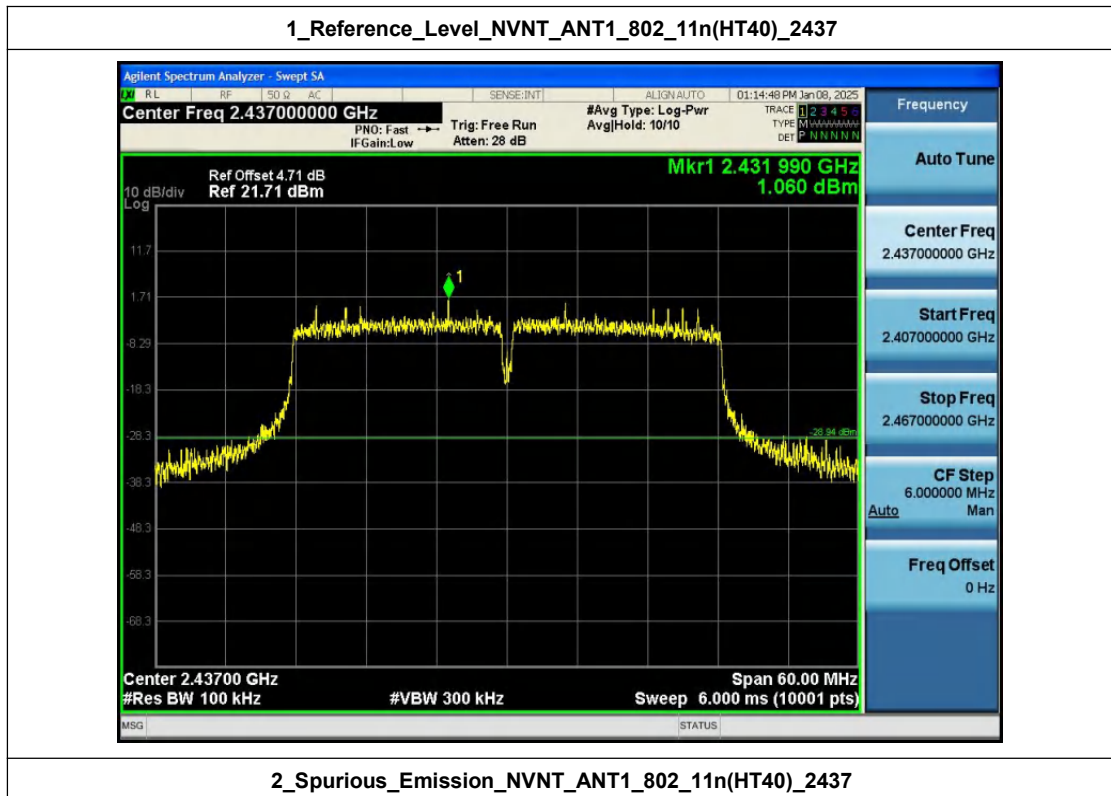


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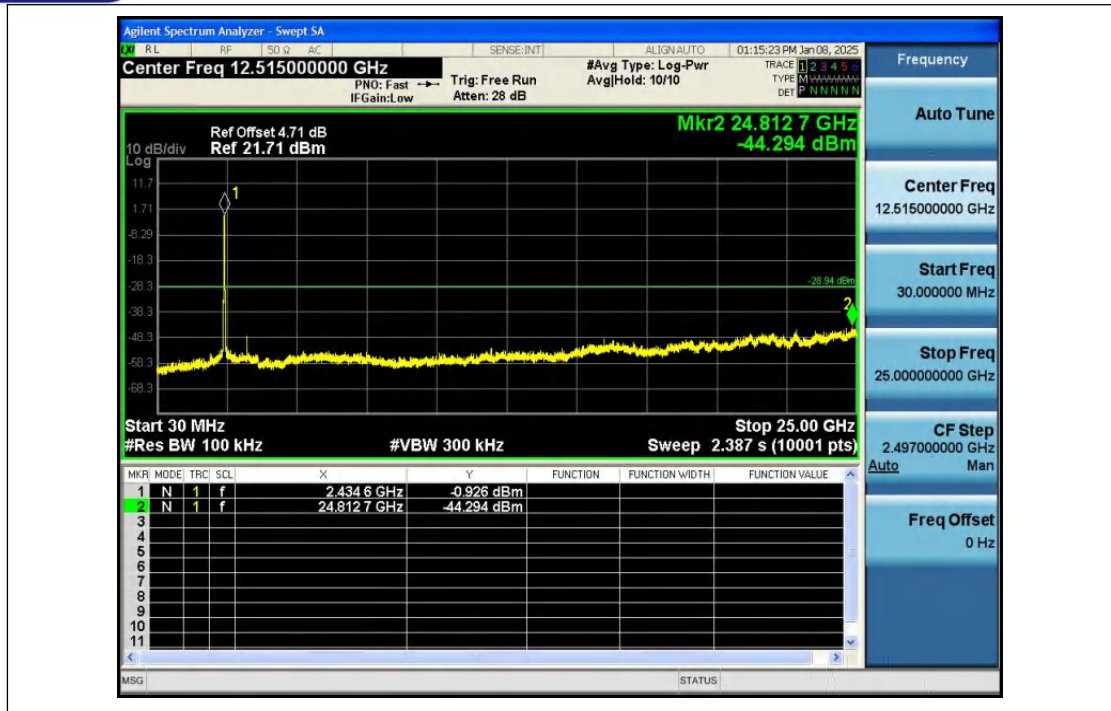


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437

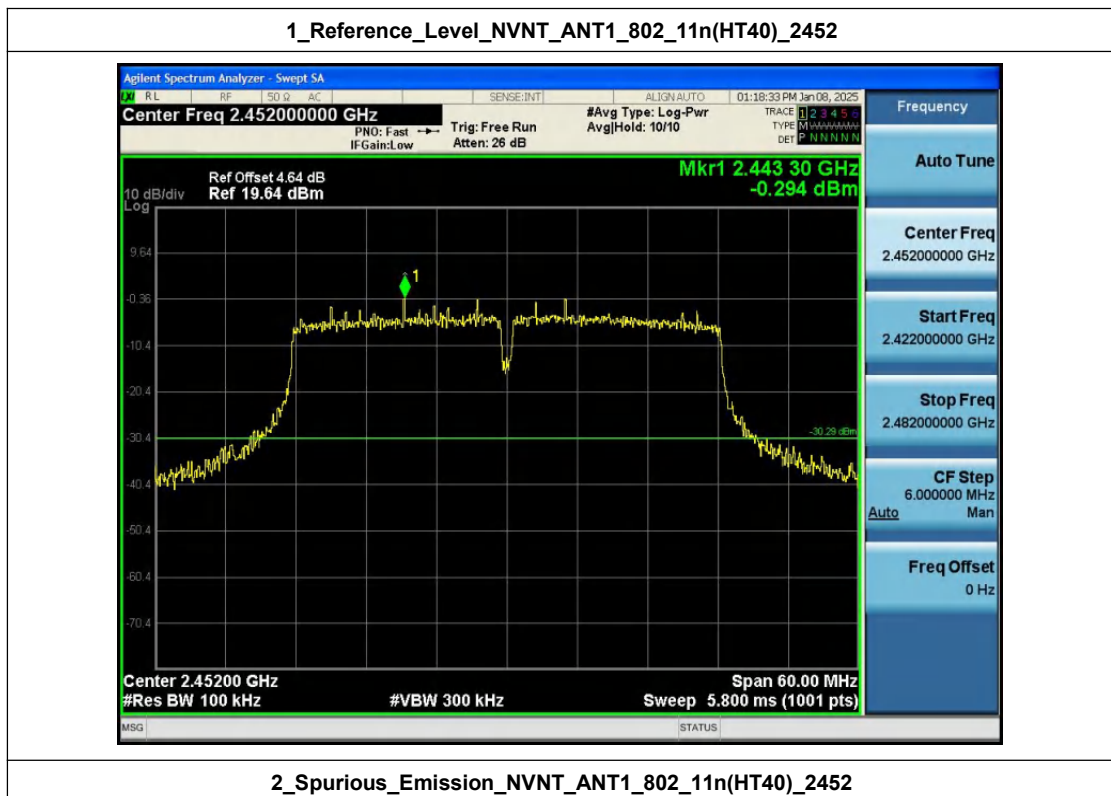


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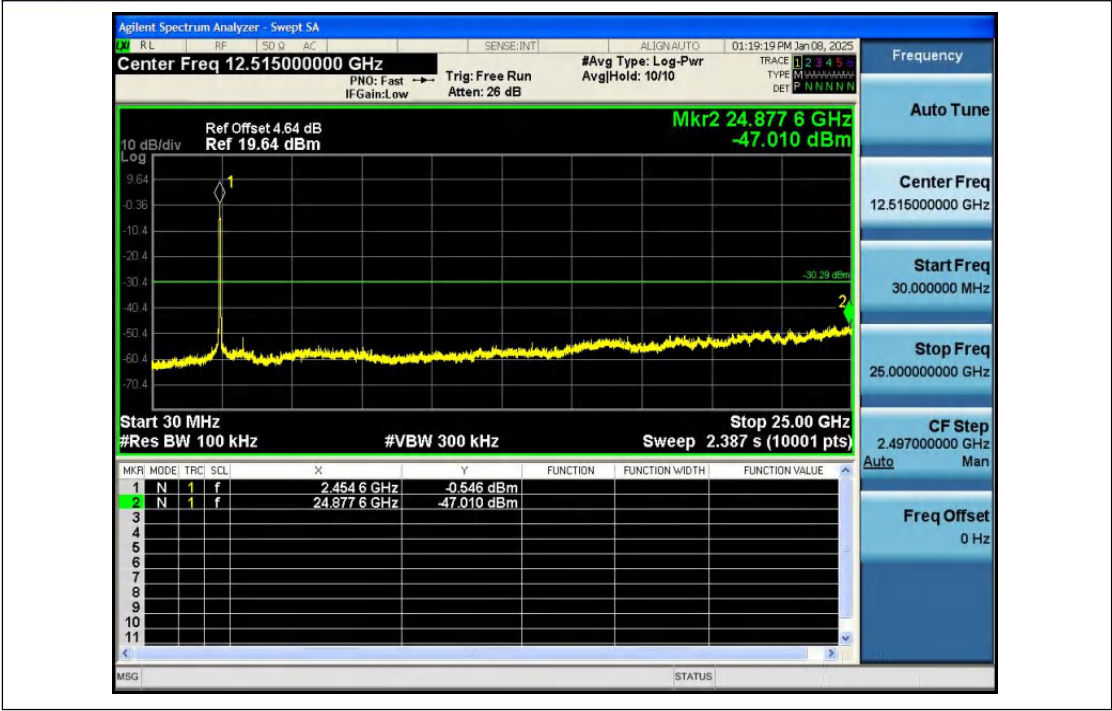


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452





---END---

