

Appendix Test Data

Report No.:	1812C40007212503	Test Sample No.:	1-2-2
Start Test Date:	2024.11.25	Finish Test Date:	2024.12.13
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.3℃	Relative Humidity:	55%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

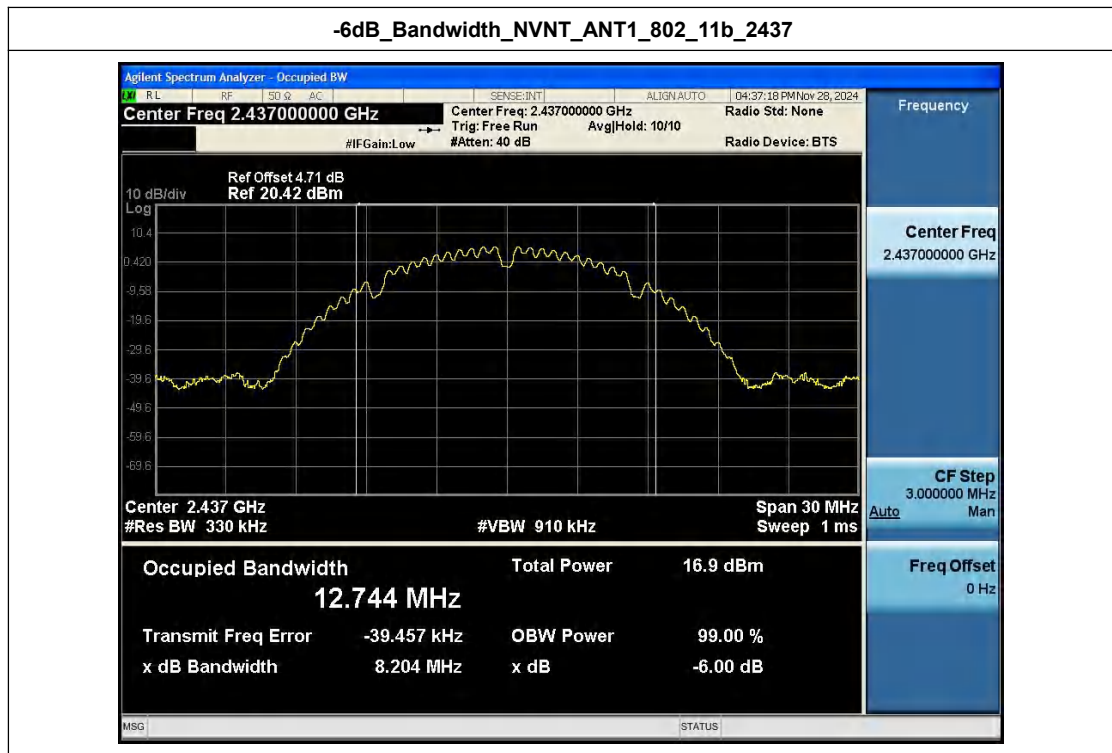
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.18	500	Pass
NVNT	ANT1	802.11b	2437.00	8.20	500	Pass
NVNT	ANT1	802.11b	2462.00	8.19	500	Pass
NVNT	ANT1	802.11g	2412.00	15.88	500	Pass
NVNT	ANT1	802.11g	2437.00	16.08	500	Pass
NVNT	ANT1	802.11g	2462.00	15.94	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.24	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.37	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.01	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.35	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.05	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.29	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



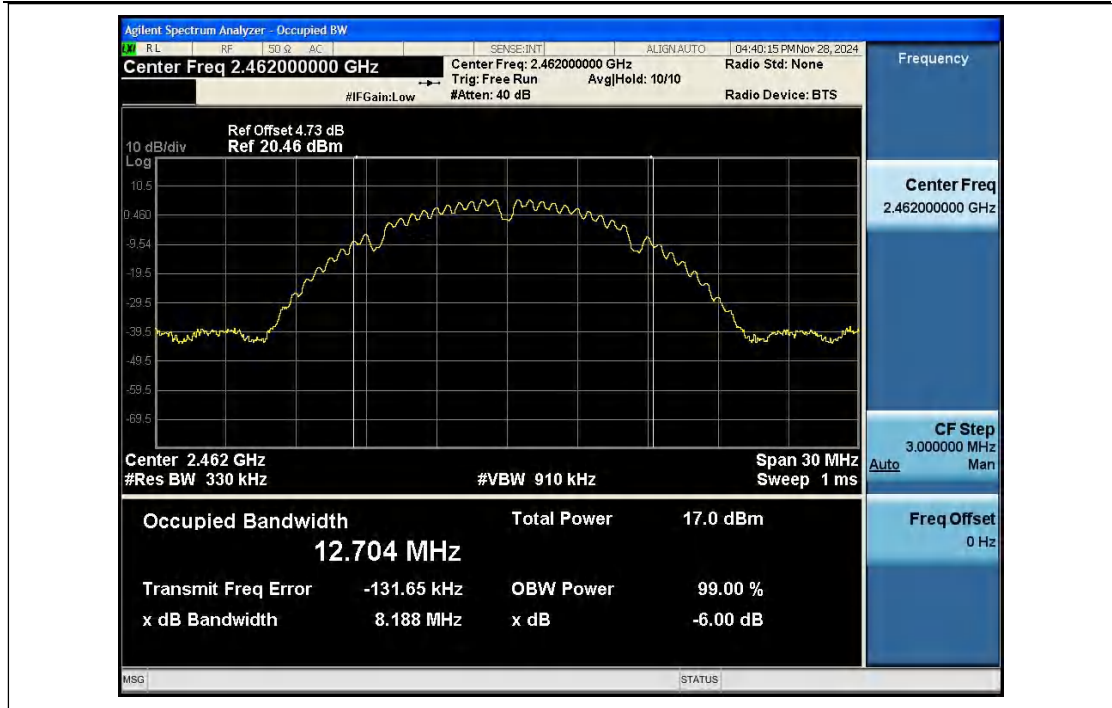


-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

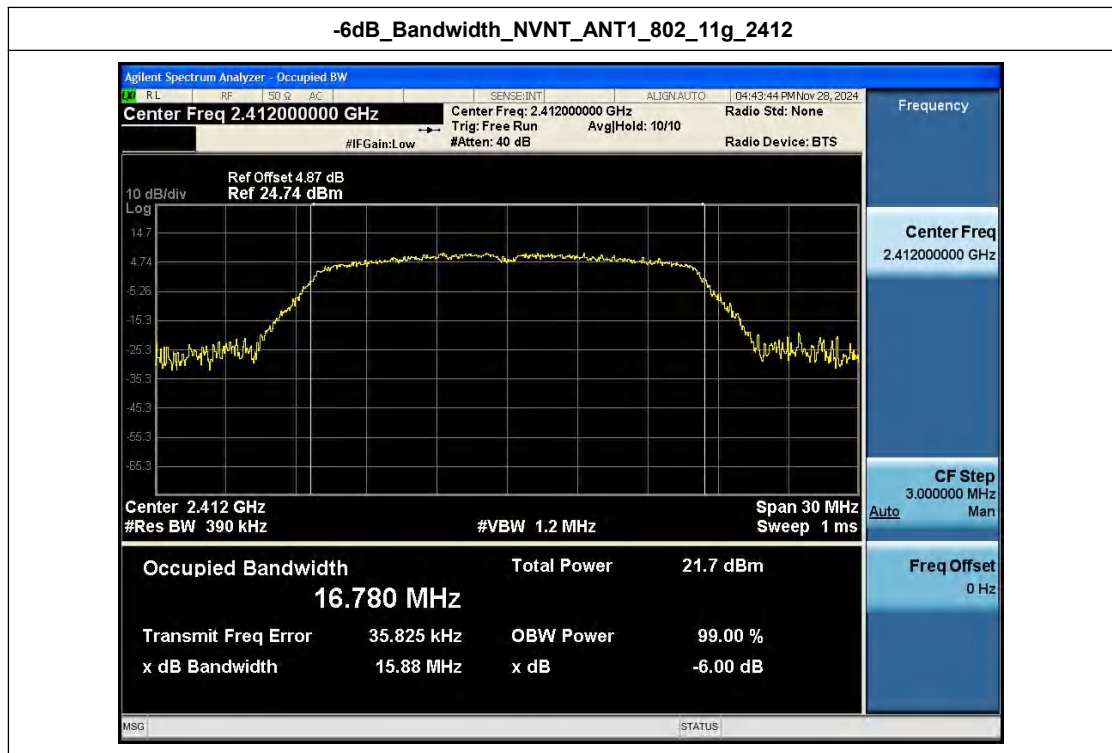


-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



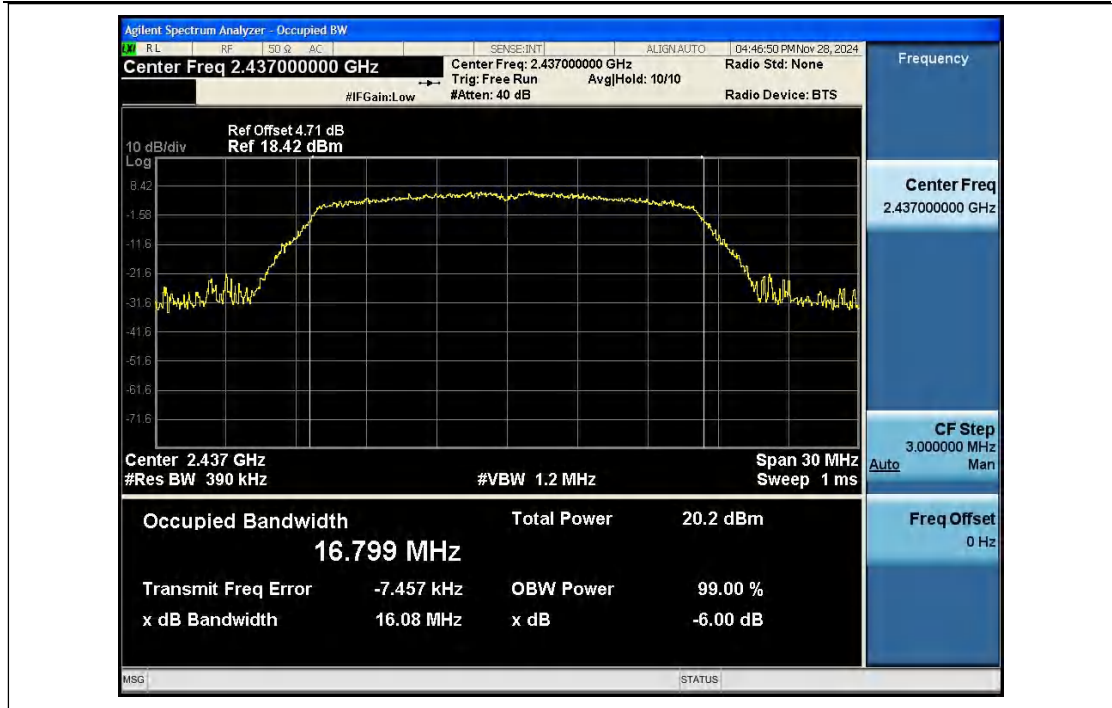


-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

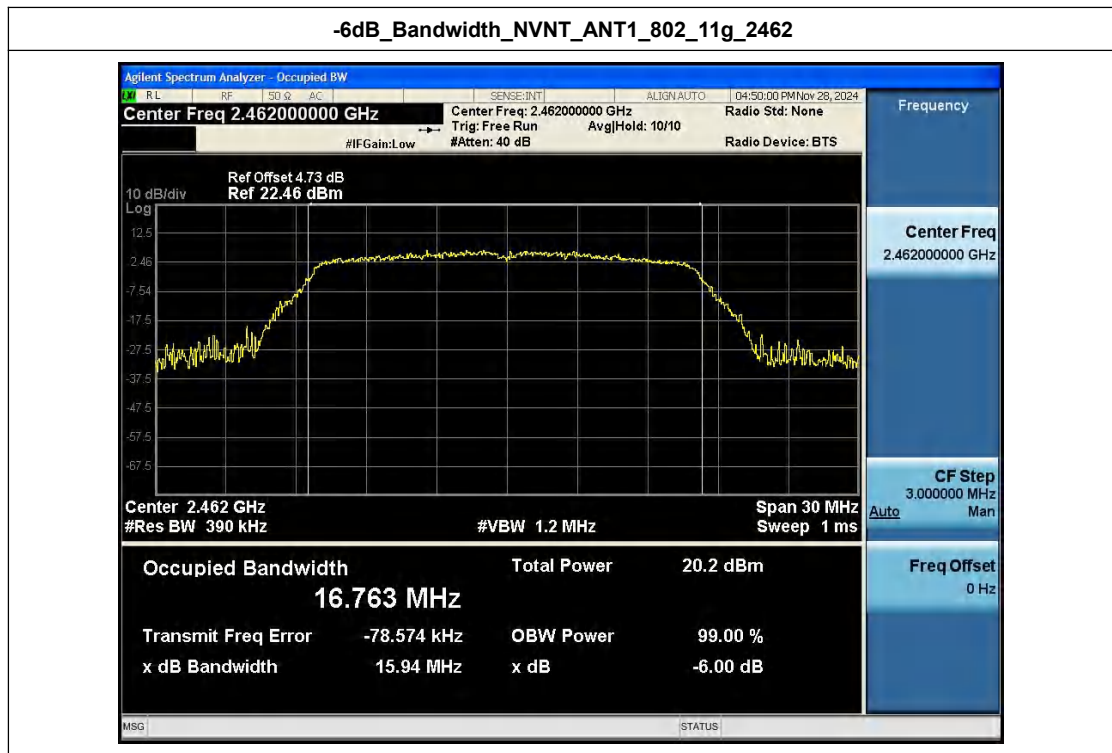


-6dB_Bandwidth_NVNT_ANT1_802_11g_2437





-6dB_Bandwidth_NVNT_ANT1_802_11g_2462

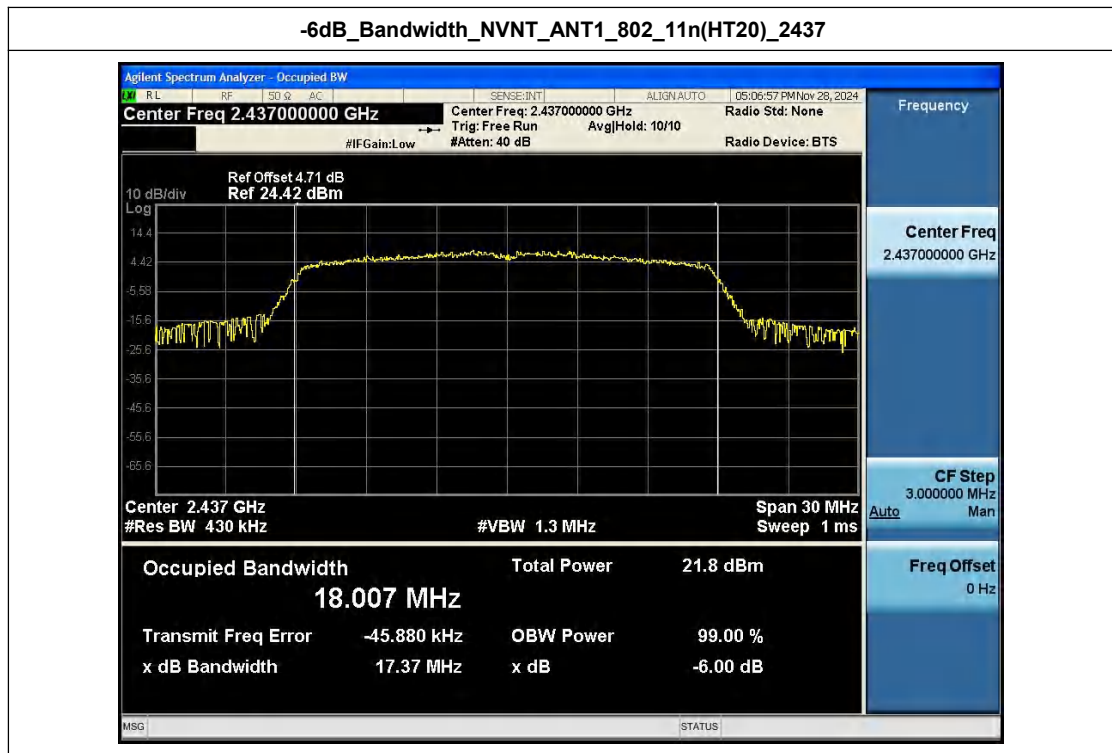


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412





-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

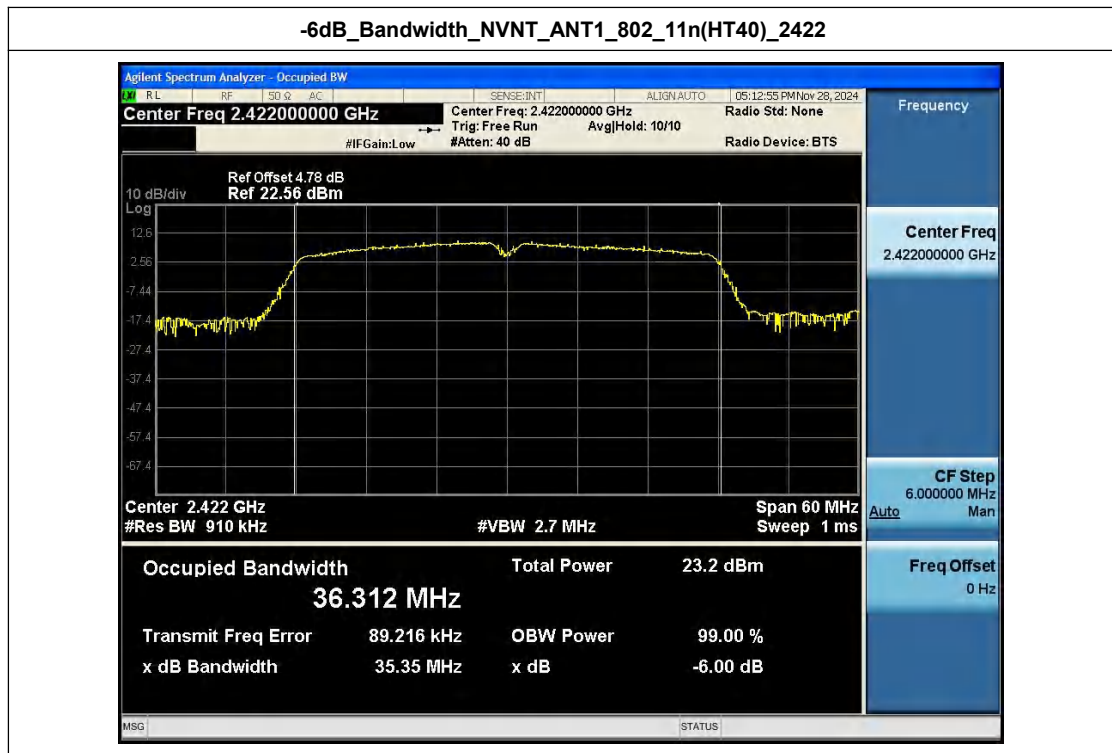


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



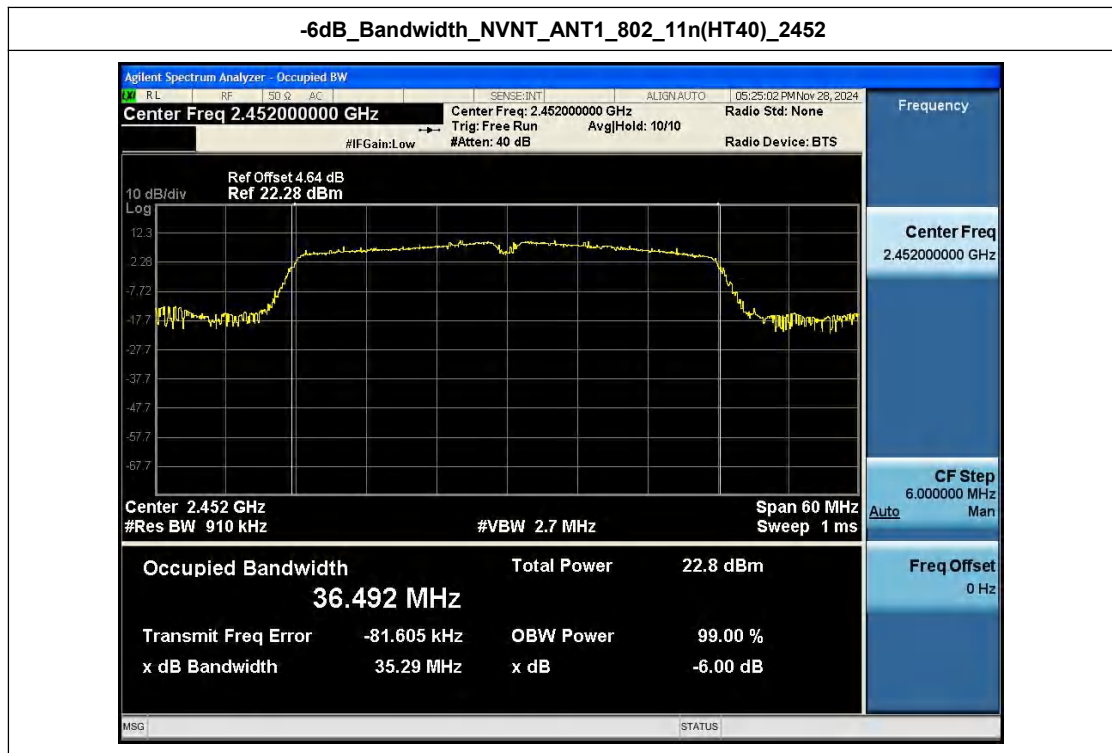
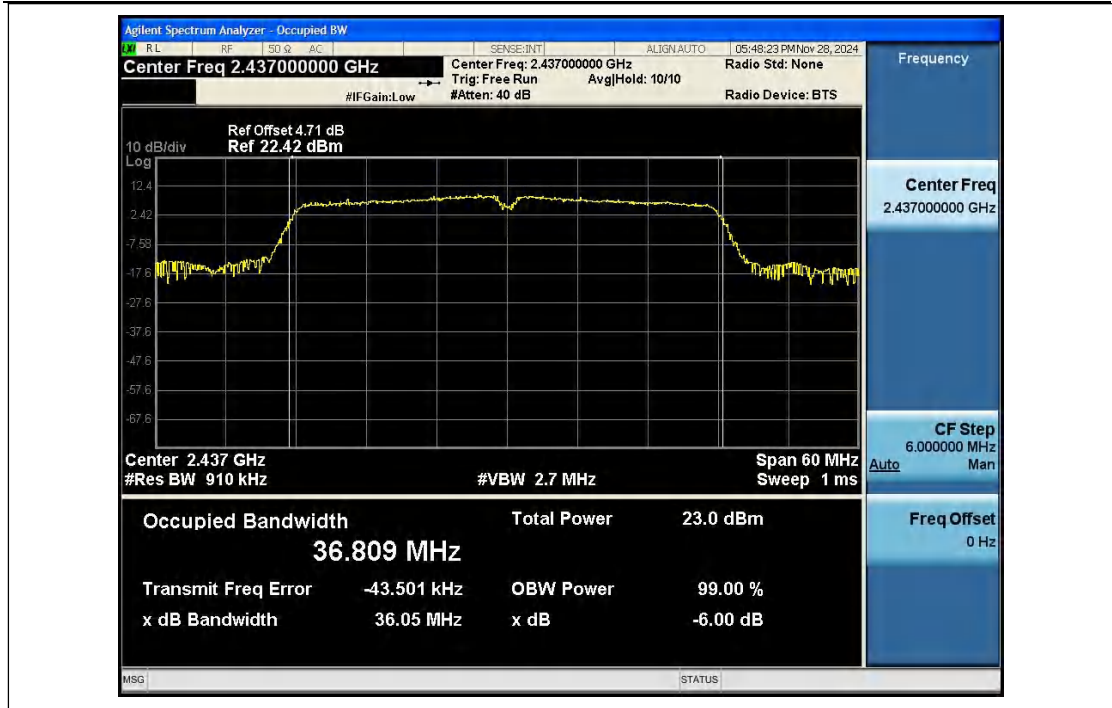


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

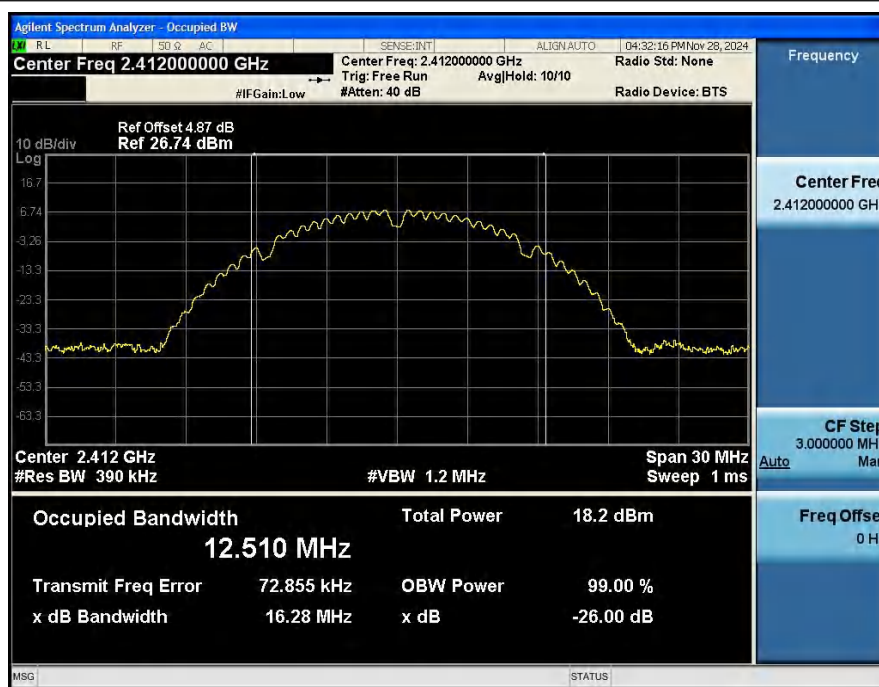




Appendix B: 99% Occupied Bandwidth

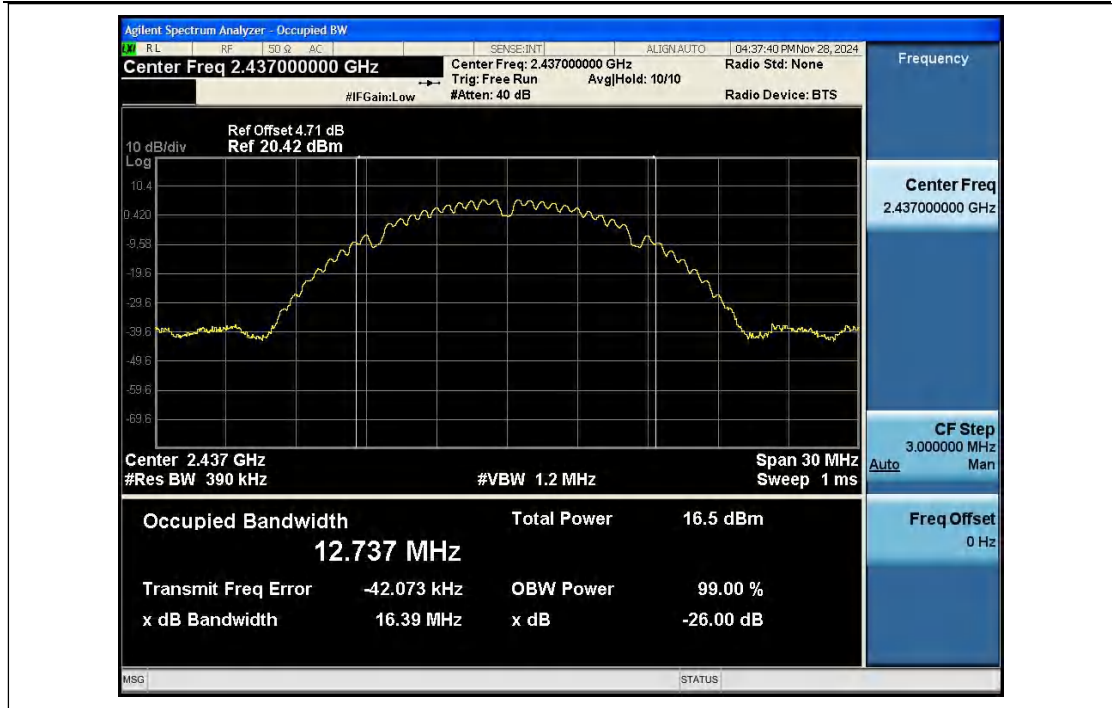
Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.510
NVNT	ANT1	802.11b	2437.00	12.737
NVNT	ANT1	802.11b	2462.00	12.704
NVNT	ANT1	802.11g	2412.00	16.919
NVNT	ANT1	802.11g	2437.00	16.941
NVNT	ANT1	802.11g	2462.00	16.983
NVNT	ANT1	802.11n(HT20)	2412.00	18.024
NVNT	ANT1	802.11n(HT20)	2437.00	18.078
NVNT	ANT1	802.11n(HT20)	2462.00	18.578
NVNT	ANT1	802.11n(HT40)	2422.00	36.402
NVNT	ANT1	802.11n(HT40)	2437.00	36.848
NVNT	ANT1	802.11n(HT40)	2452.00	36.477

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

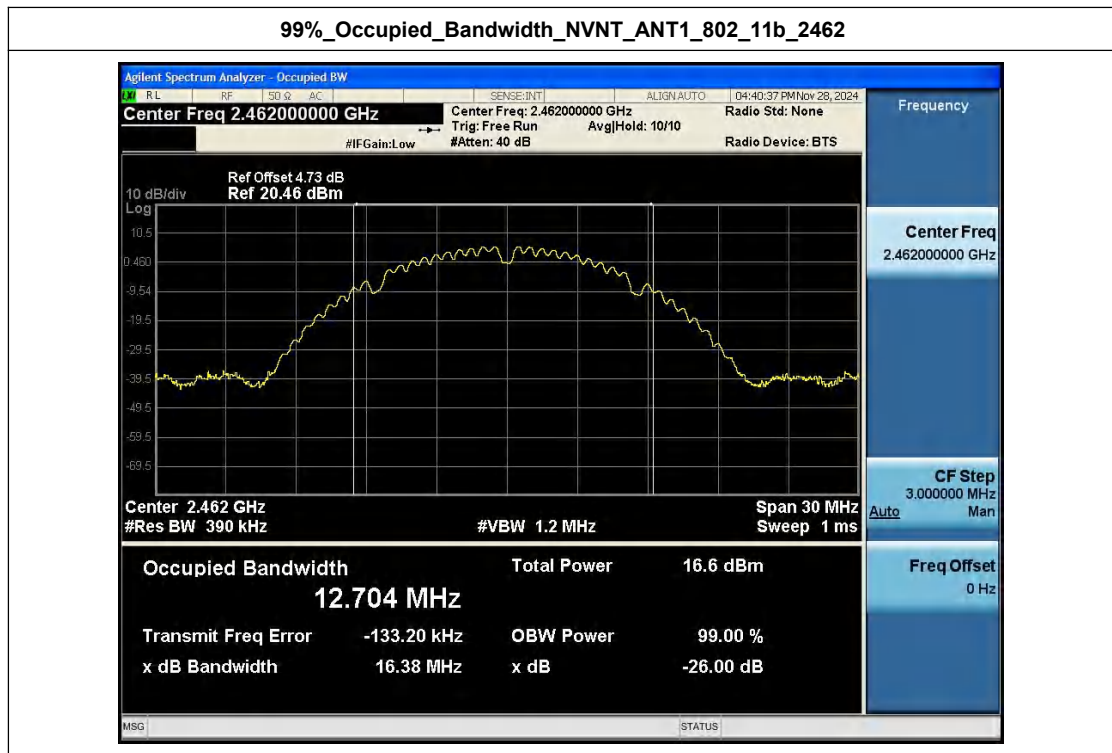


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437





99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462

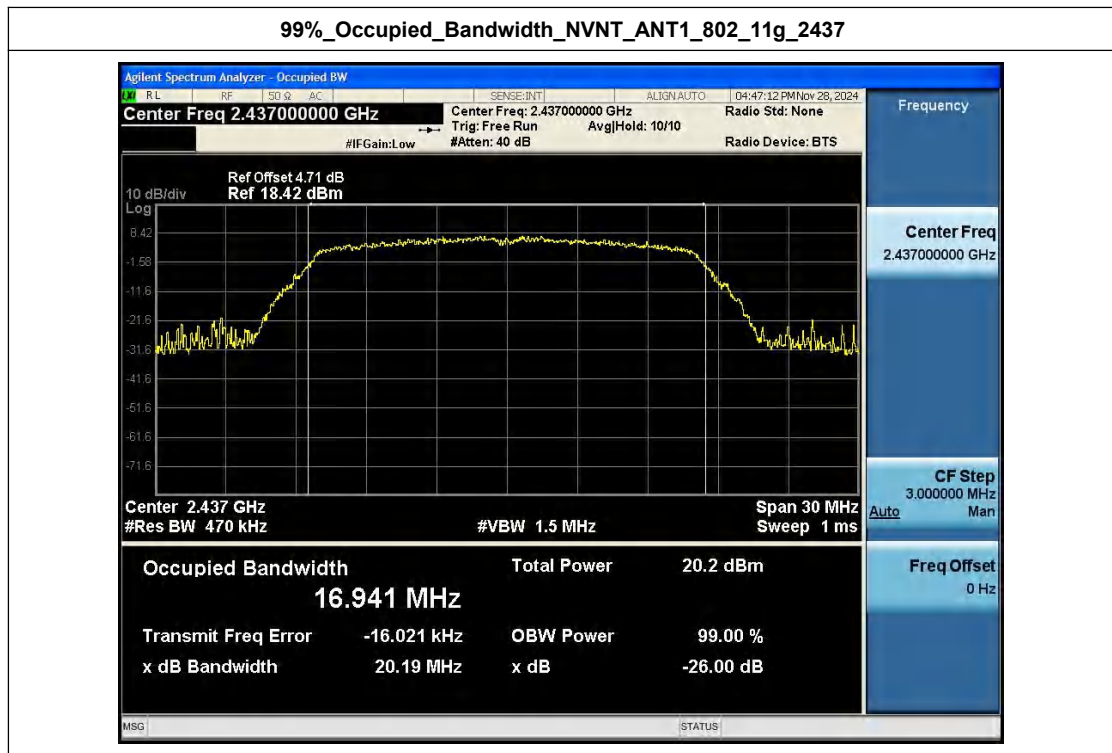


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



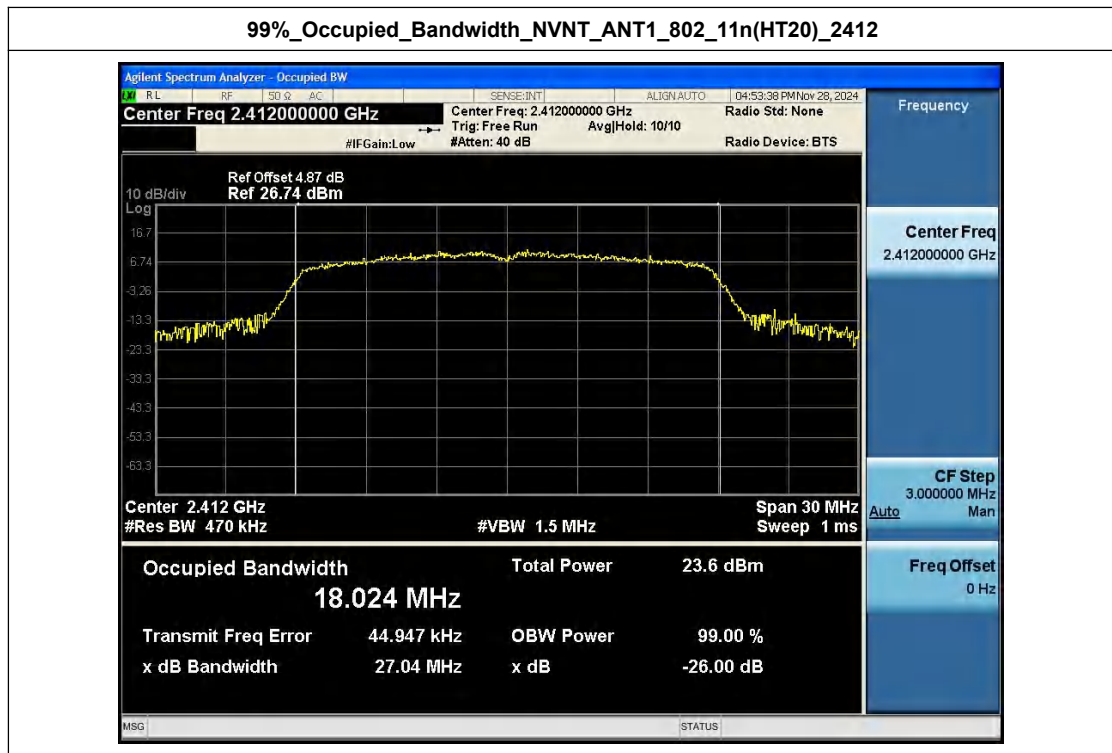


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



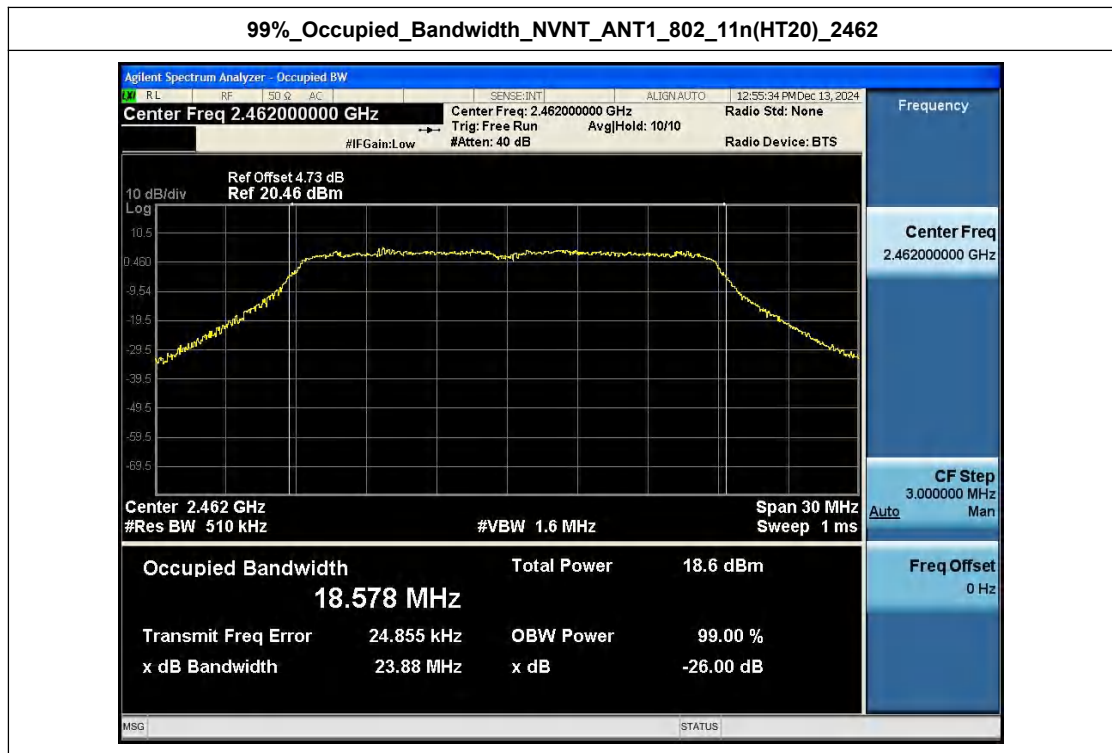
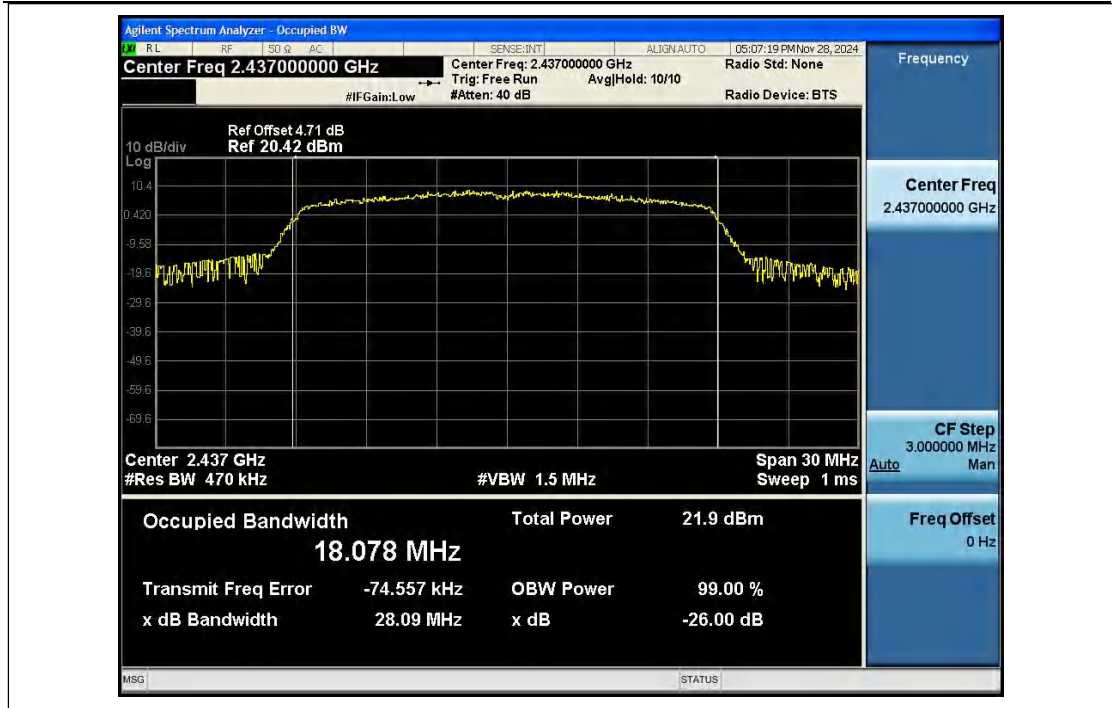
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462





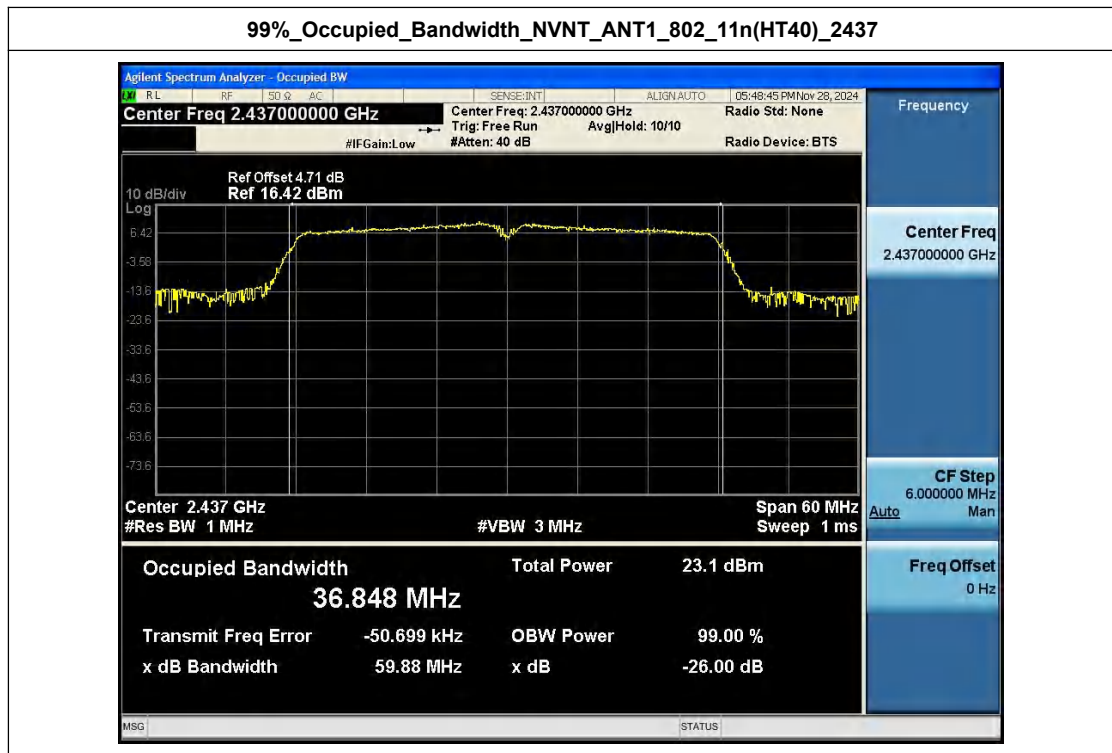
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437





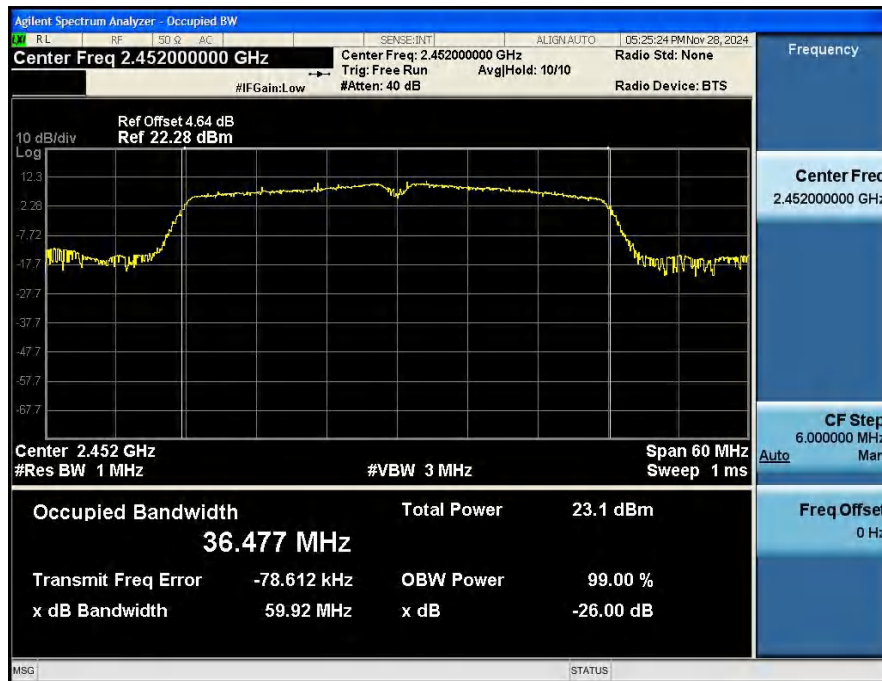
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422





99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452





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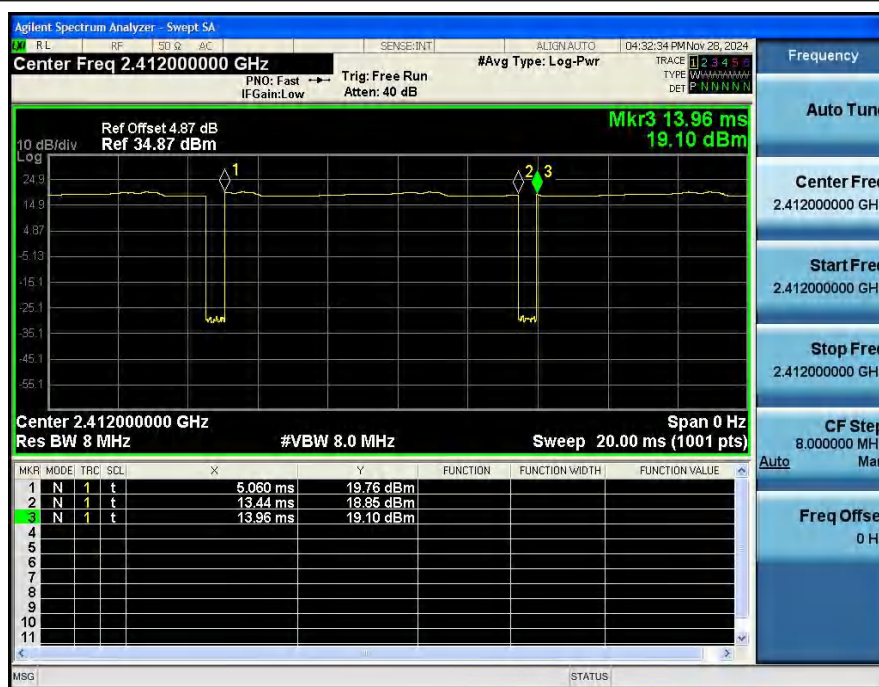
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Appendix C: Duty Cycle

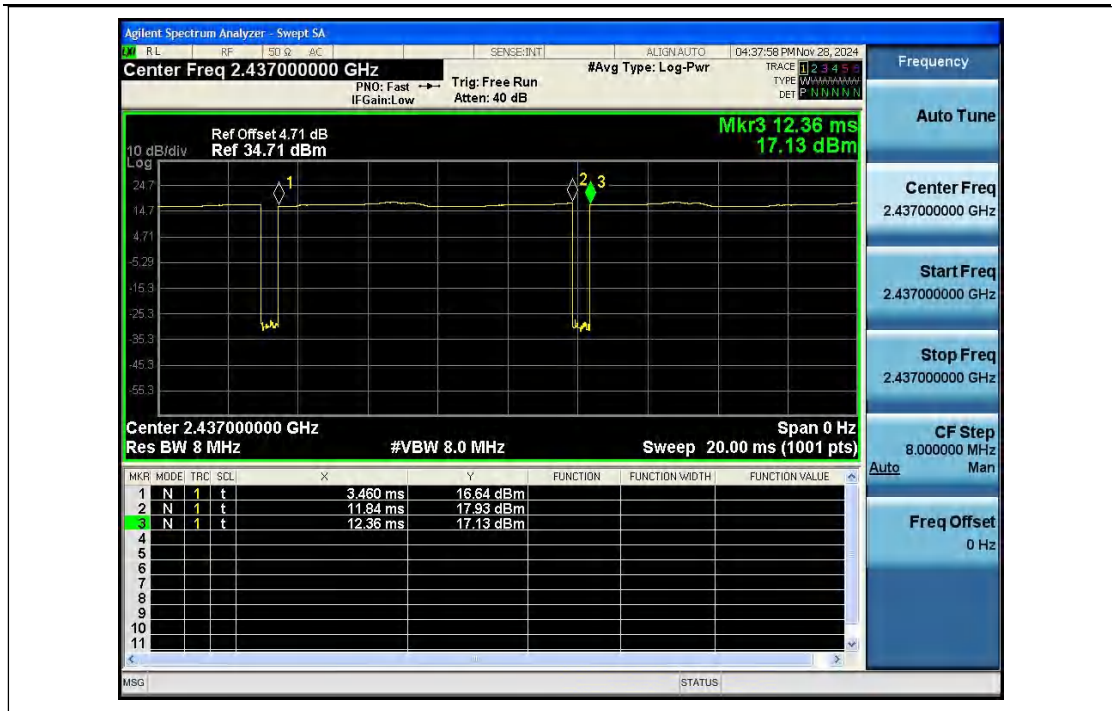
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	94.38	0.25
NVNT	ANT1	802.11b	2437.00	94.38	0.25
NVNT	ANT1	802.11b	2462.00	94.17	0.26
NVNT	ANT1	802.11g	2412.00	72.92	1.37
NVNT	ANT1	802.11g	2437.00	72.45	1.40
NVNT	ANT1	802.11g	2462.00	70.00	1.55
NVNT	ANT1	802.11n(HT20)	2412.00	70.65	1.51
NVNT	ANT1	802.11n(HT20)	2437.00	71.74	1.44
NVNT	ANT1	802.11n(HT20)	2462.00	71.74	1.44
NVNT	ANT1	802.11n(HT40)	2422.00	56.67	2.47
NVNT	ANT1	802.11n(HT40)	2437.00	55.00	2.60
NVNT	ANT1	802.11n(HT40)	2452.00	57.14	2.43

Duty_Cycle_NVNT_ANT1_802_11b_2412

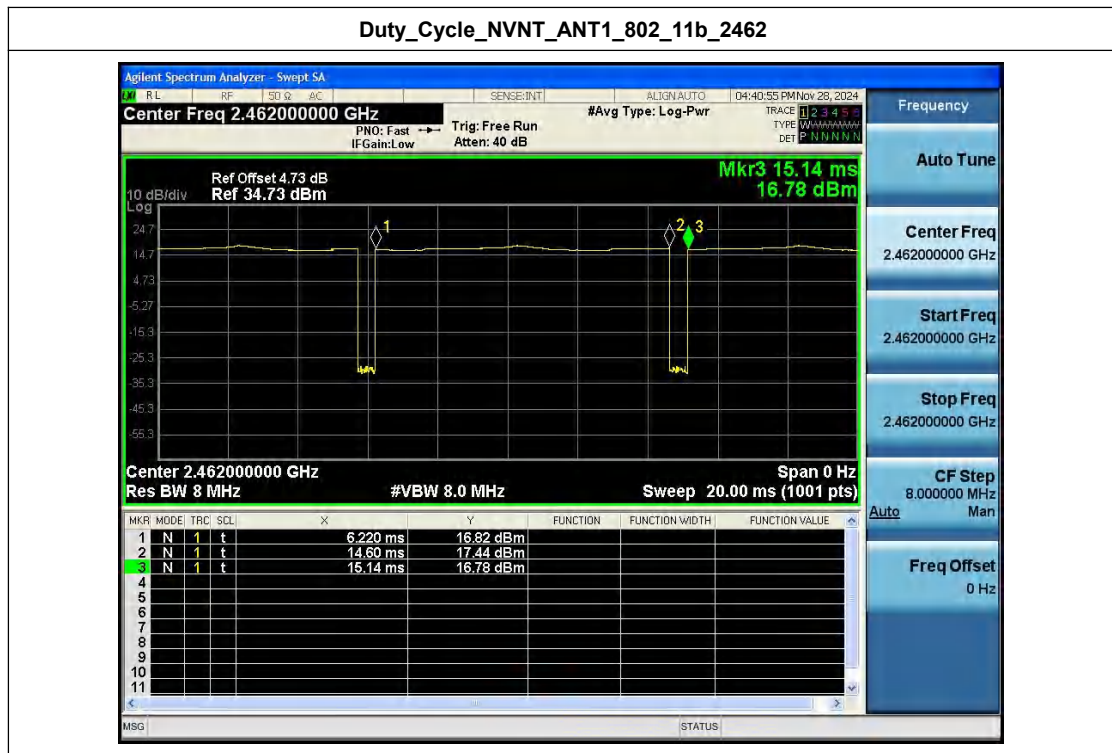


Duty_Cycle_NVNT_ANT1_802_11b_2437



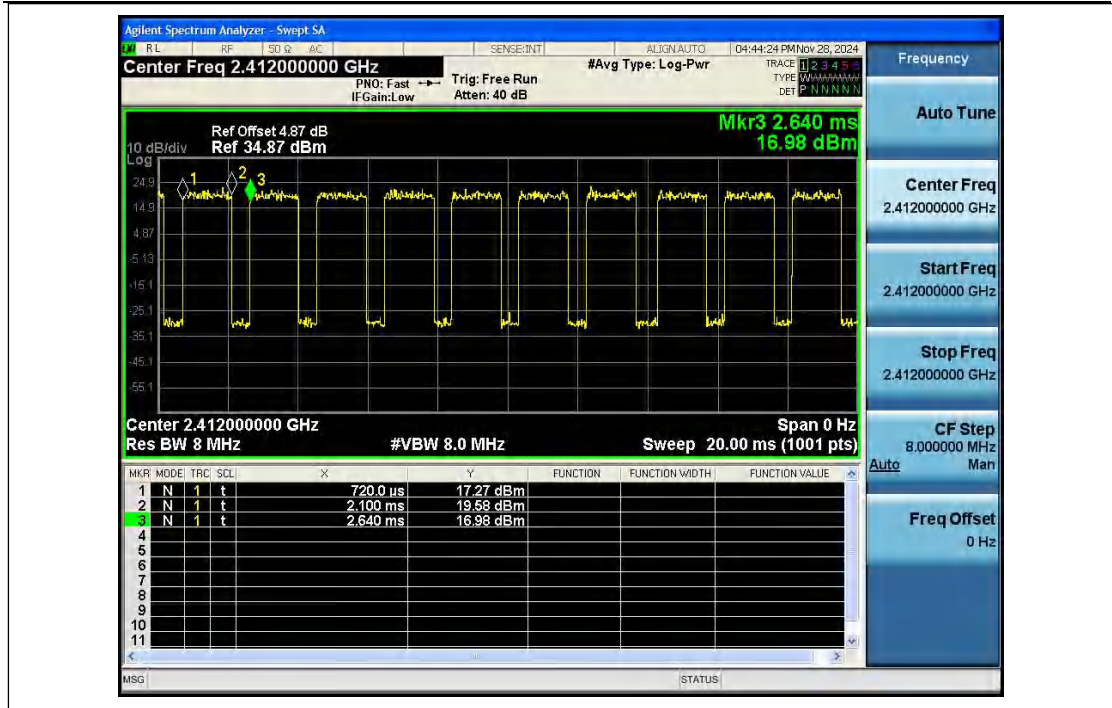


Duty_Cycle_NVNT_ANT1_802_11b_2462

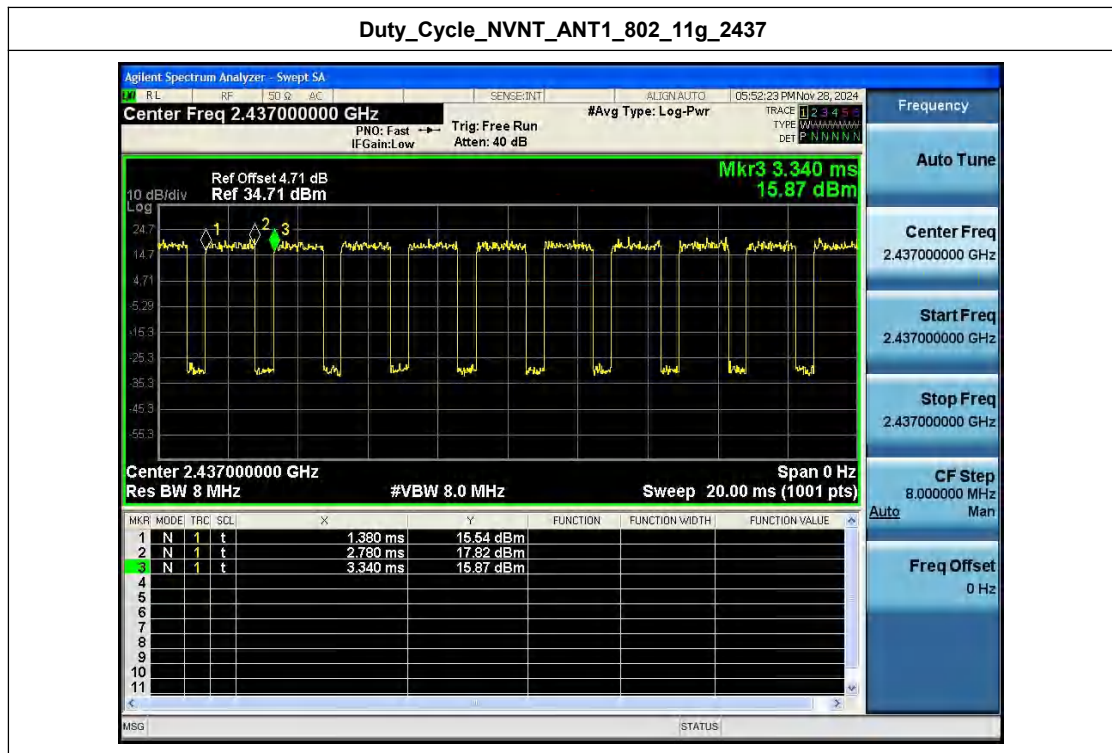


Duty_Cycle_NVNT_ANT1_802_11g_2412



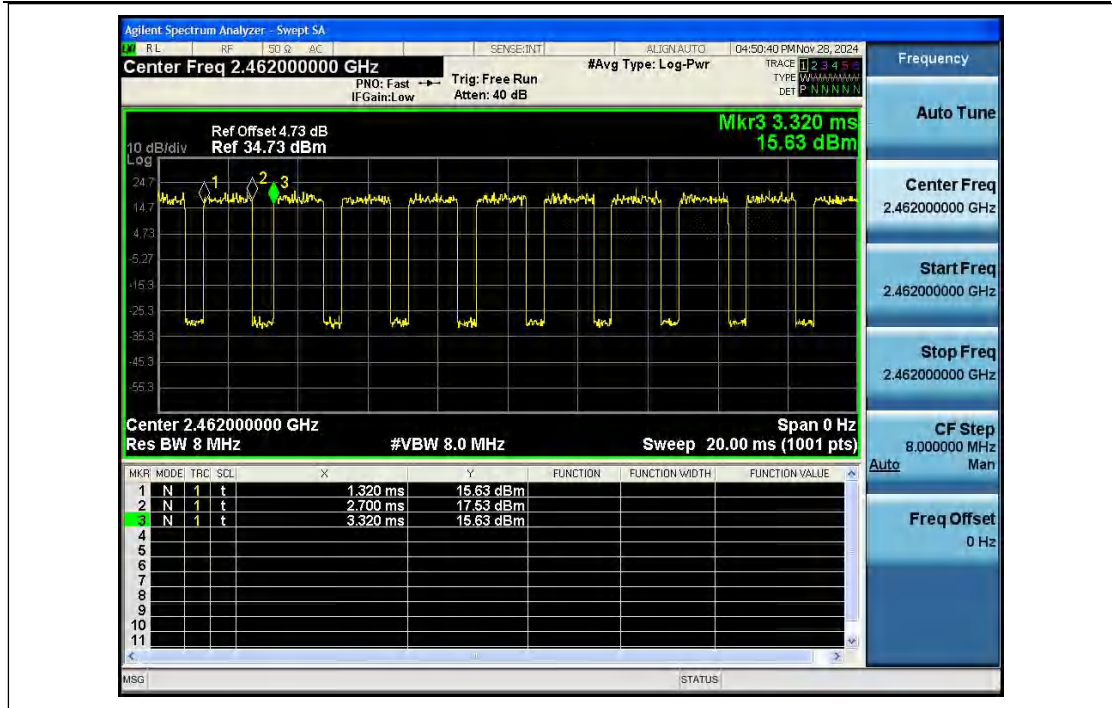


Duty_Cycle_NVNT_ANT1_802_11g_2437

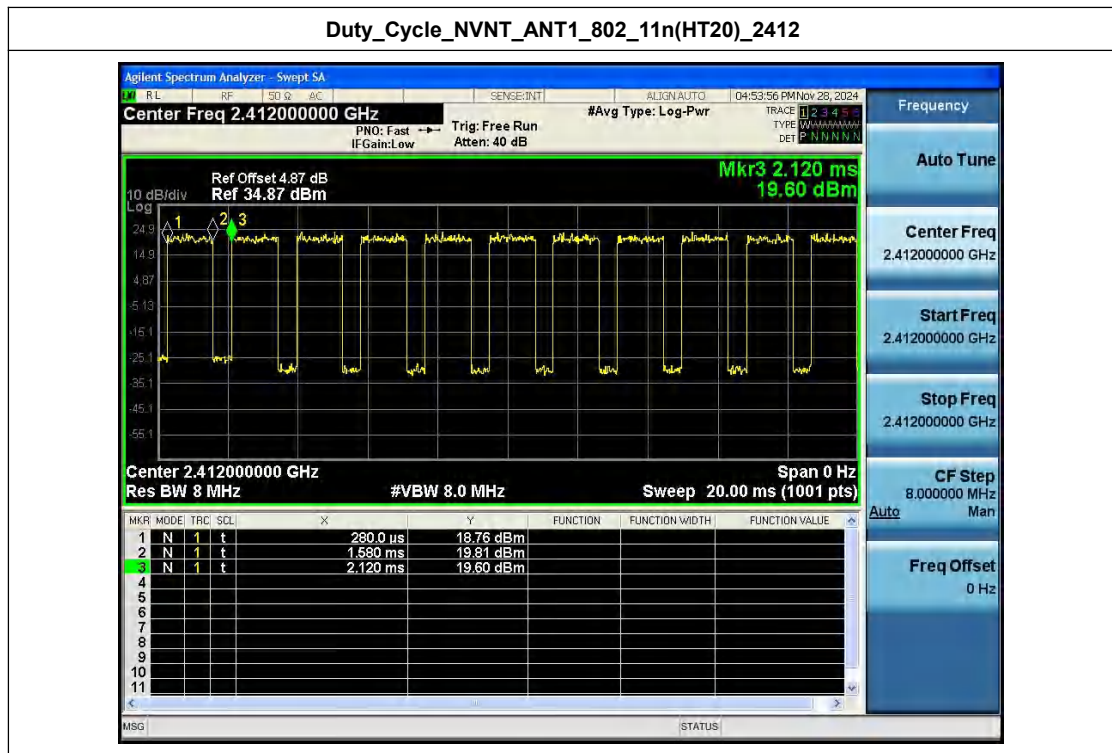


Duty_Cycle_NVNT_ANT1_802_11g_2462



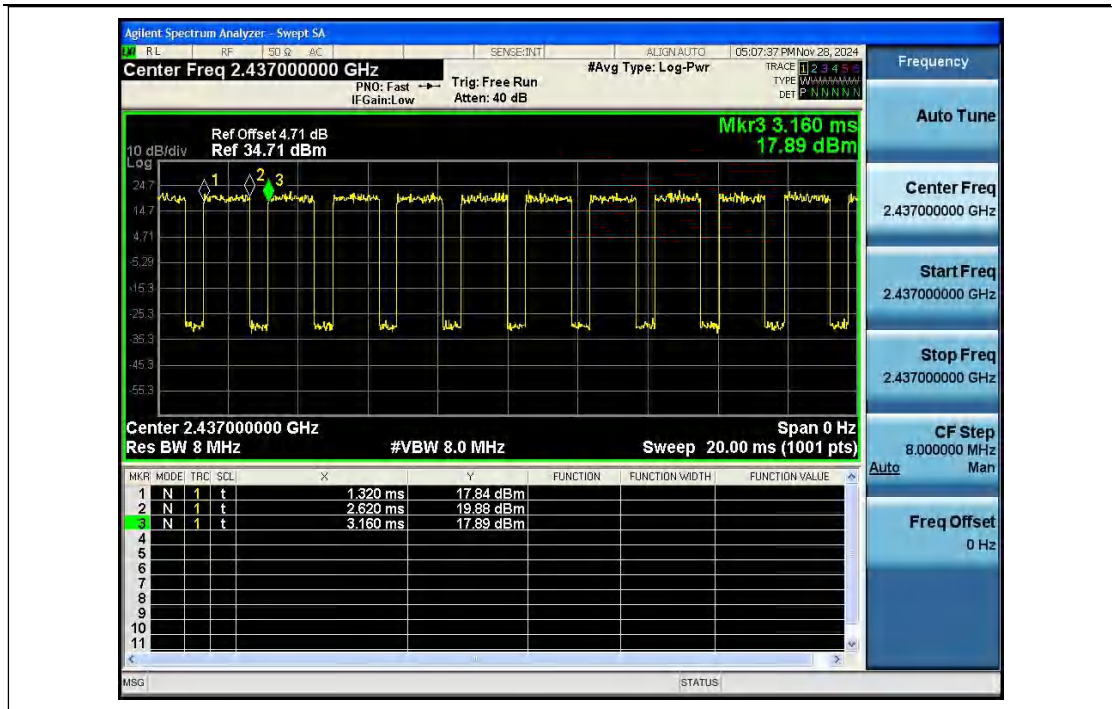


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412

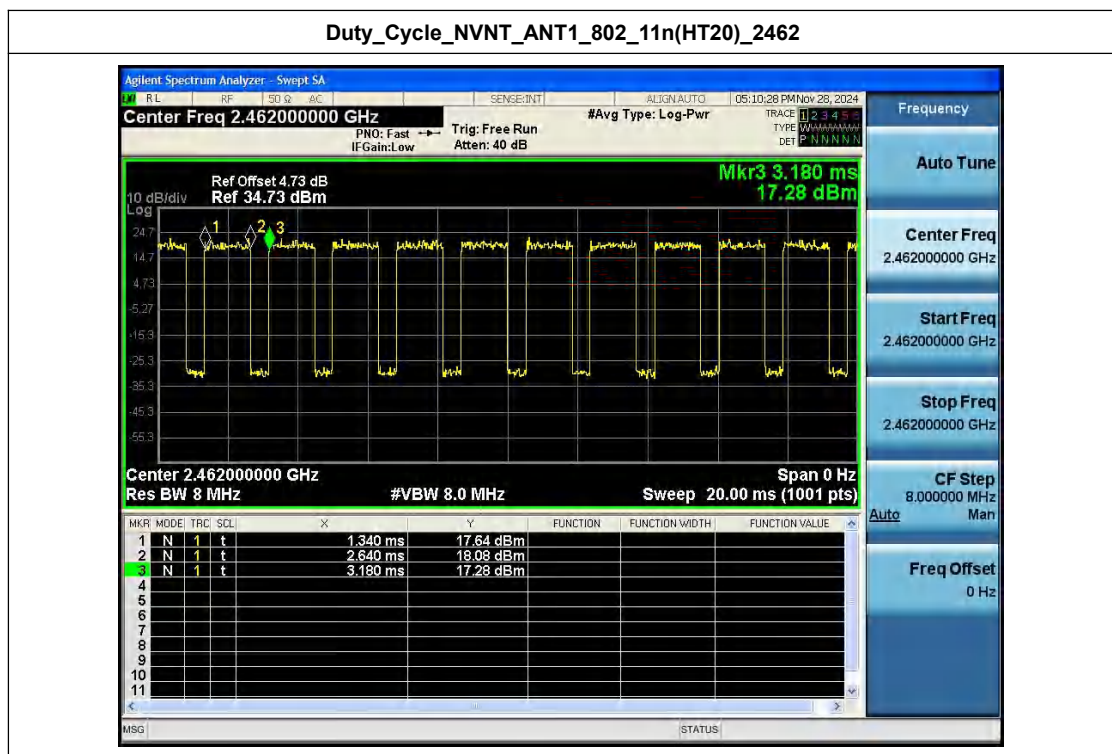


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



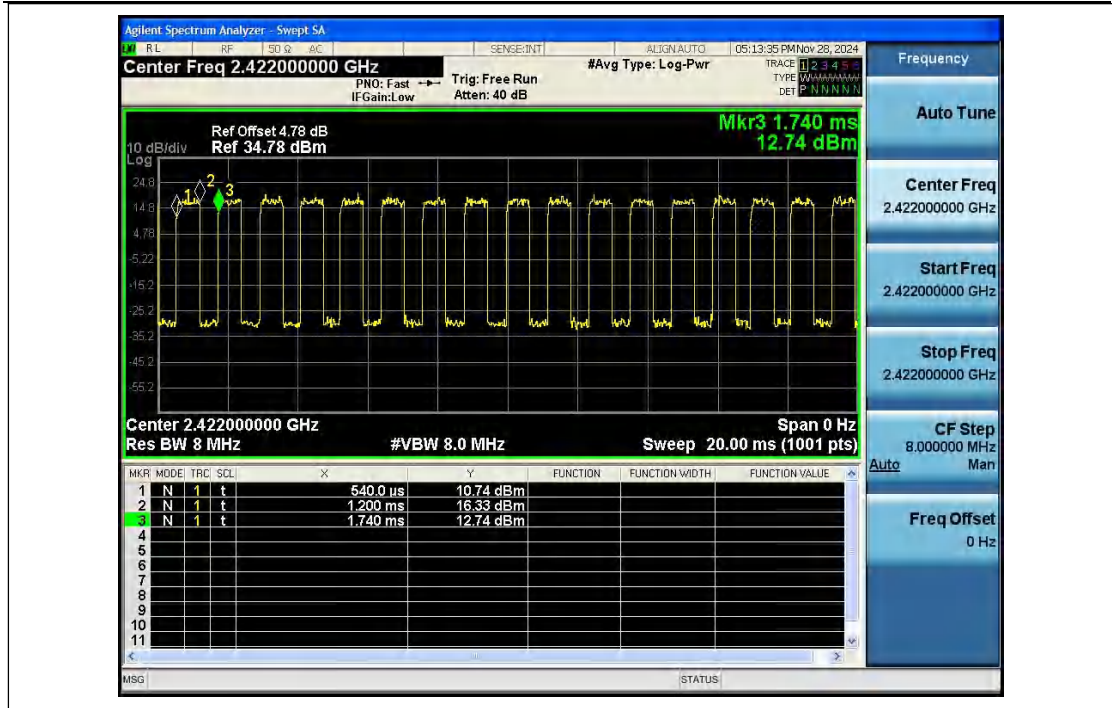


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462

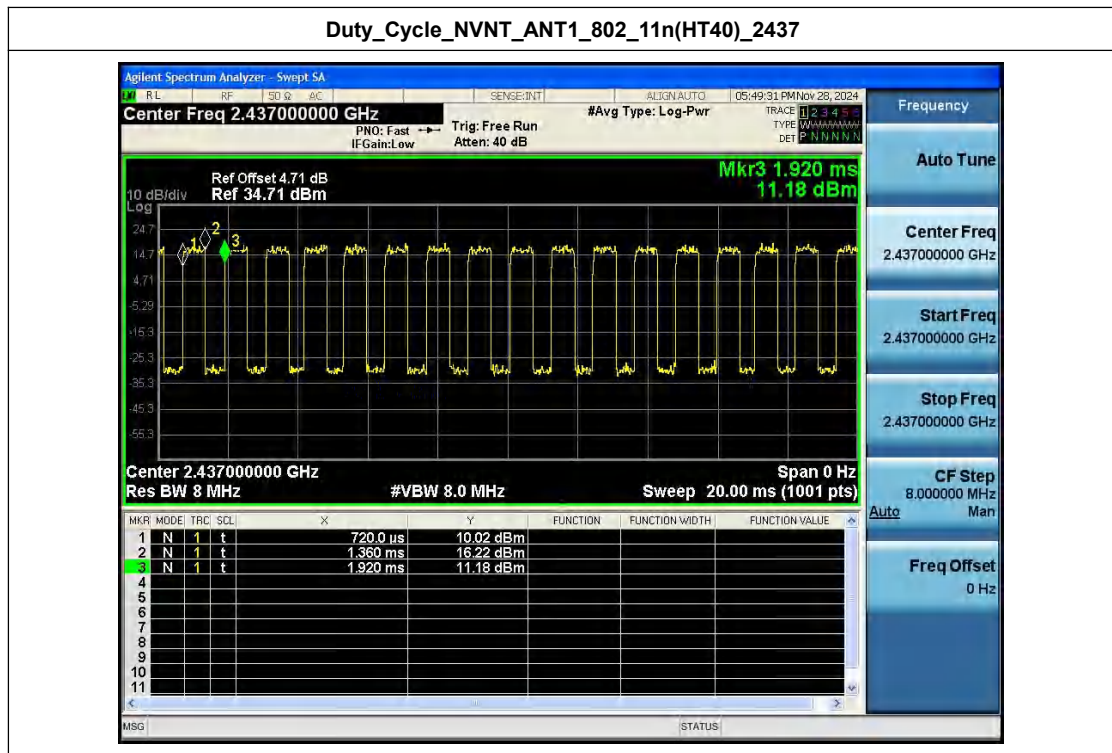


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



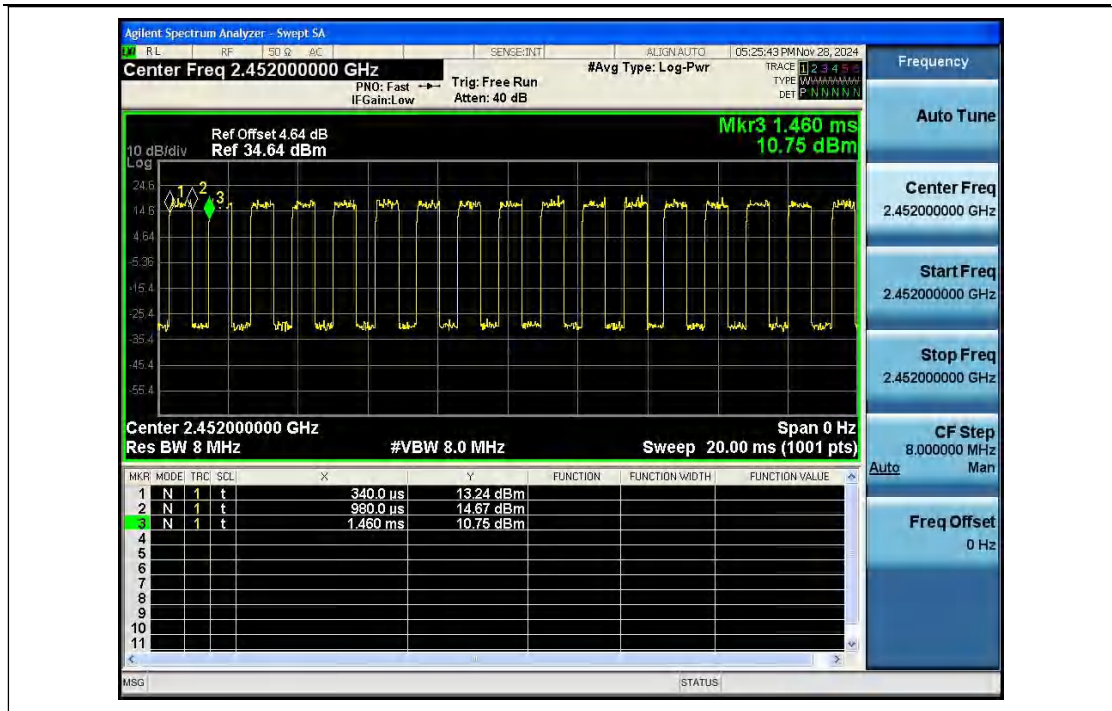


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452





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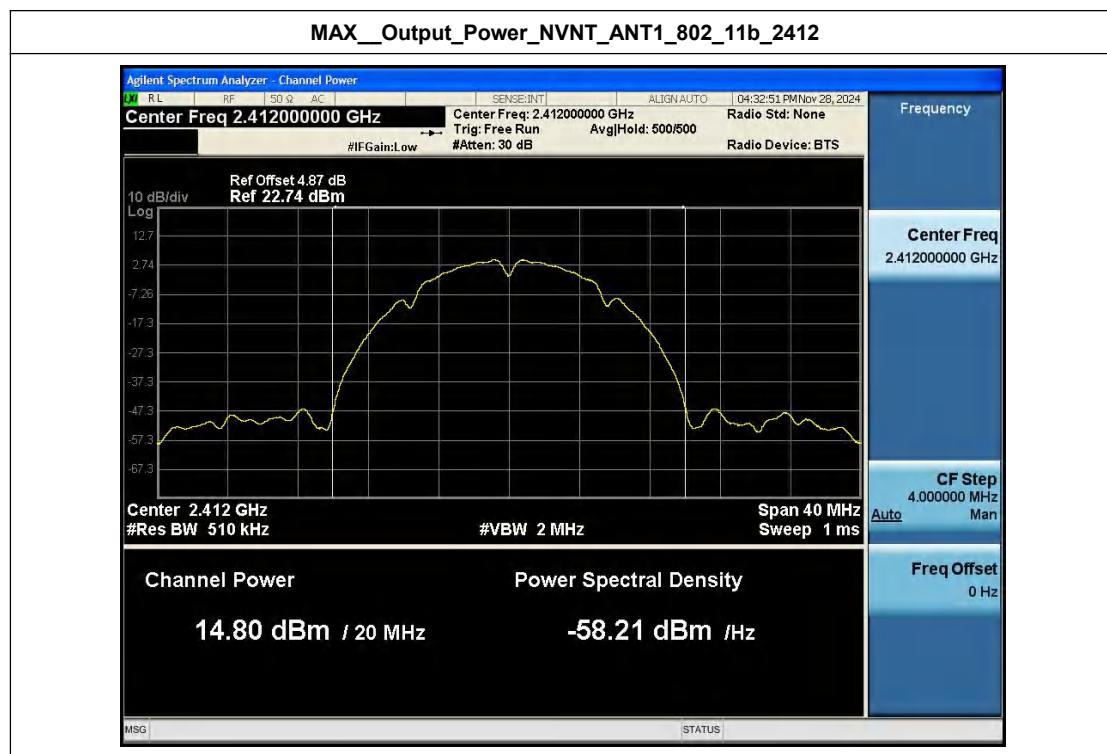
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Appendix D: MAX. Output Power

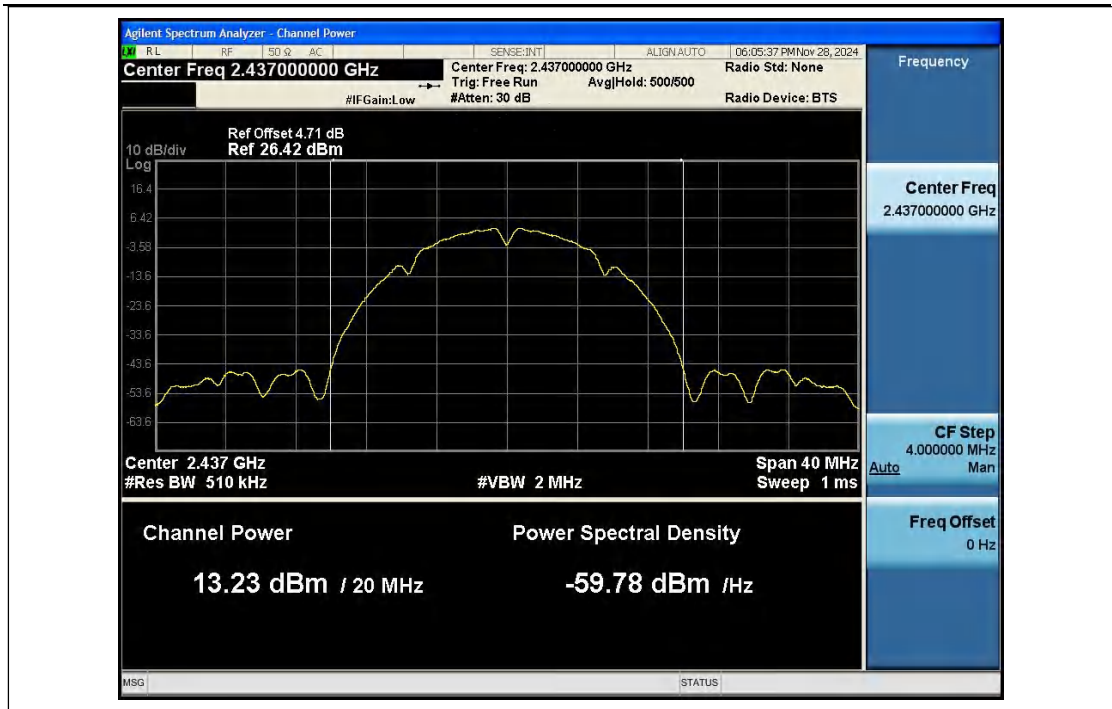
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power (dBm)	Duty factor (dB)	Total Power (dBm)	Limit (dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	14.80	0.25	15.05	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.23	0.25	13.48	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.10	0.26	13.36	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.44	1.37	14.81	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	11.95	1.40	13.35	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	11.79	1.55	13.34	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	15.20	1.51	16.71	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.66	1.44	15.10	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.57	1.44	15.01	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	13.03	2.47	15.50	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	12.80	2.60	15.40	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	12.64	2.43	15.07	30	Pass

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

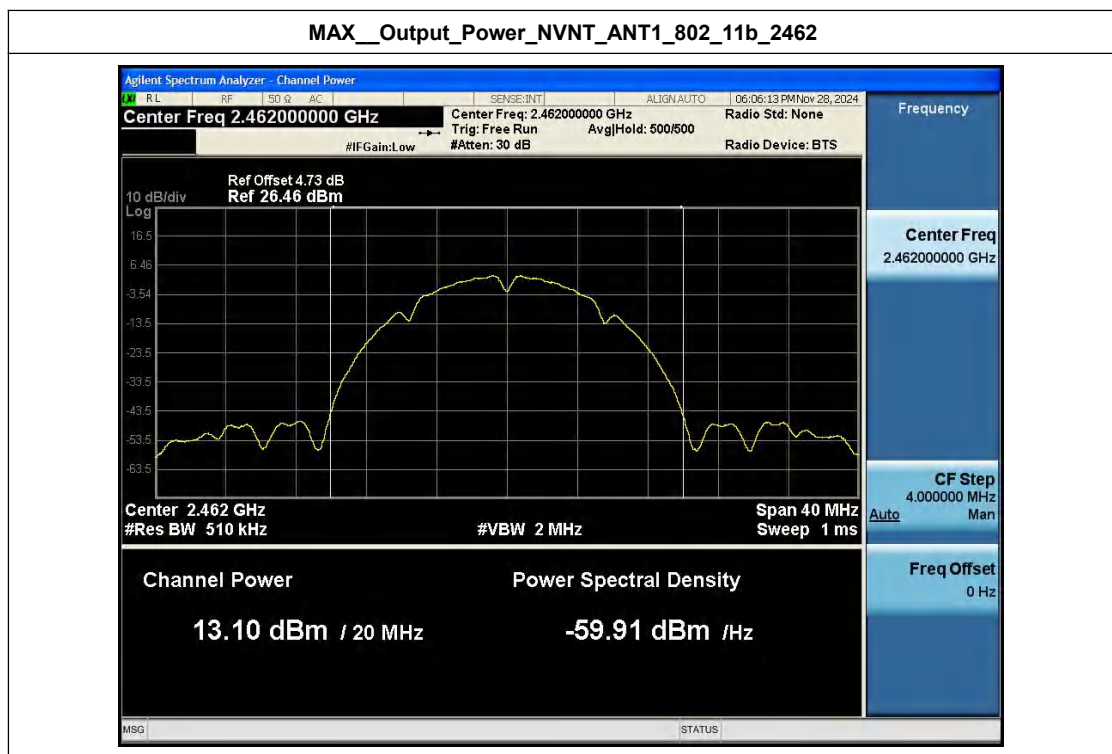


MAX__Output_Power_NVNT_ANT1_802_11b_2437



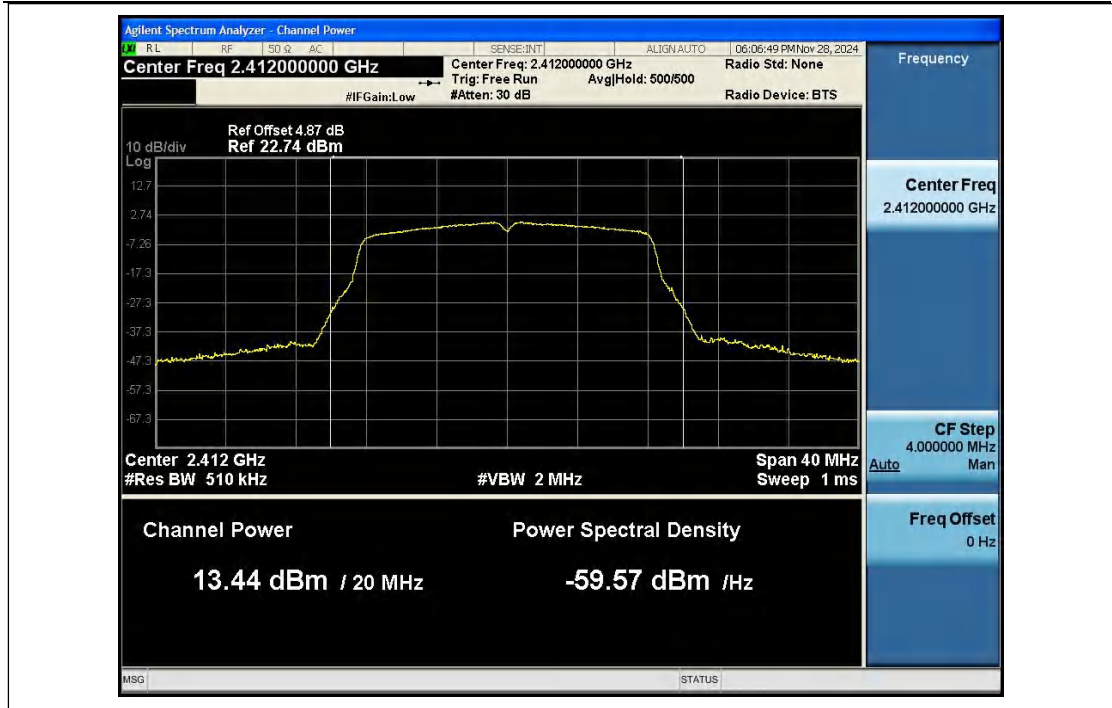


MAX__Output_Power_NVNT_ANT1_802_11b_2462

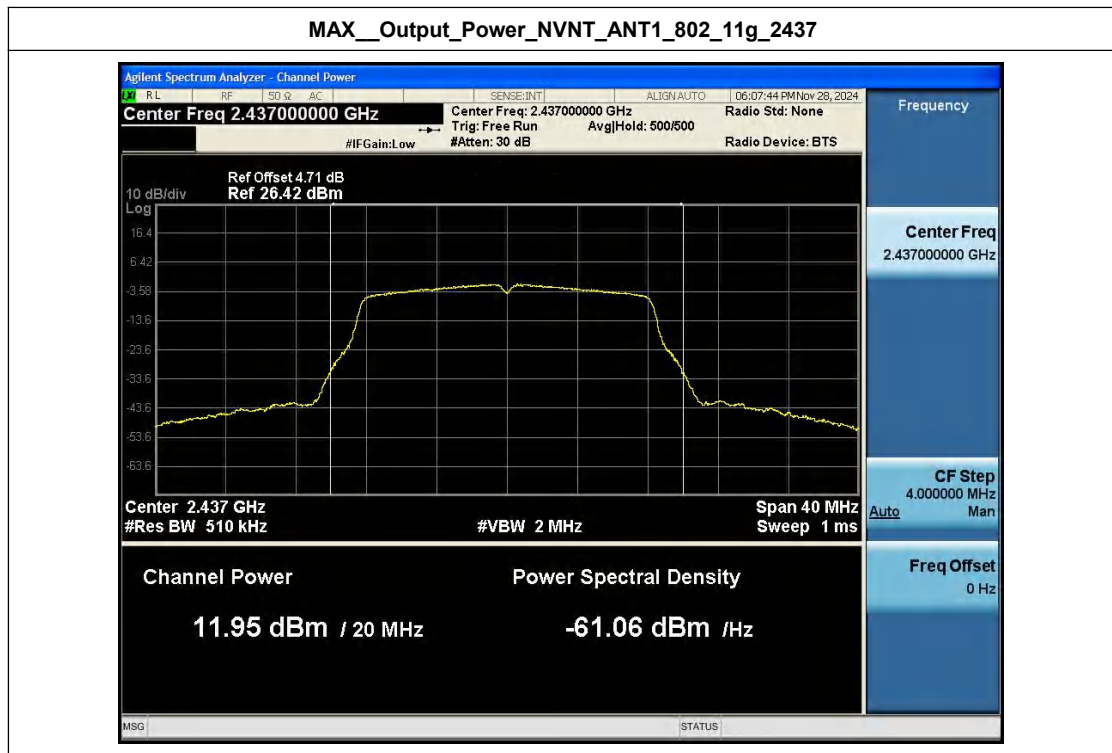


MAX__Output_Power_NVNT_ANT1_802_11g_2412





MAX__Output_Power_NVNT_ANT1_802_11g_2437

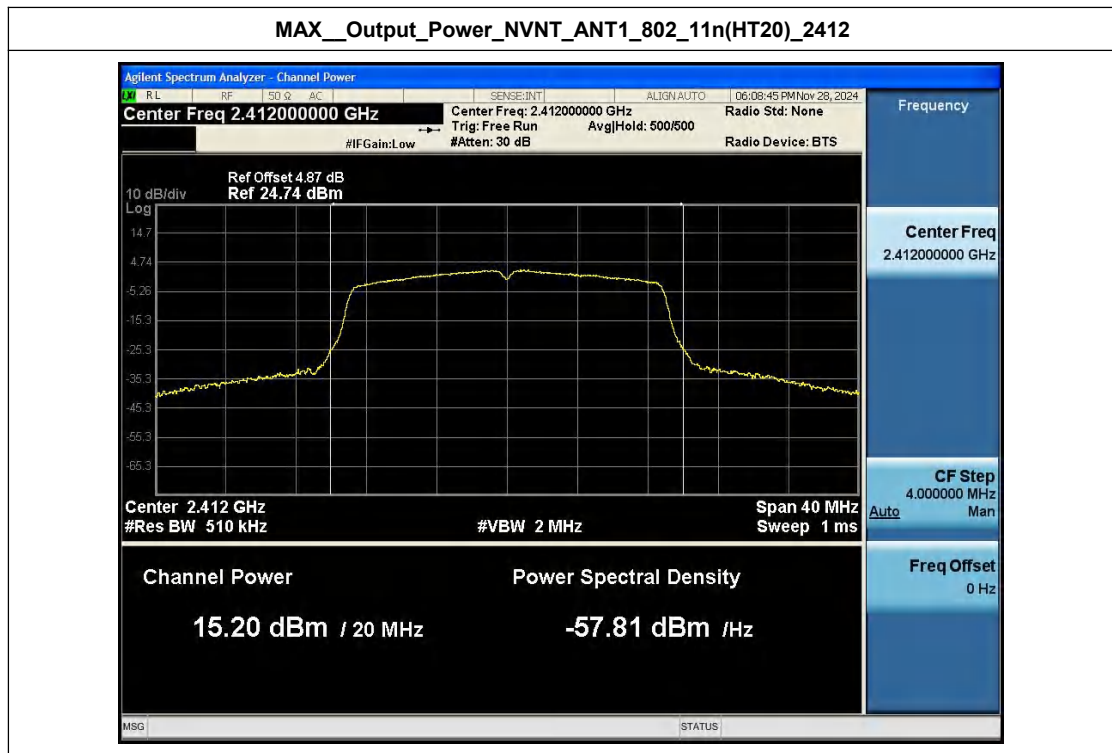


MAX__Output_Power_NVNT_ANT1_802_11g_2462





MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412

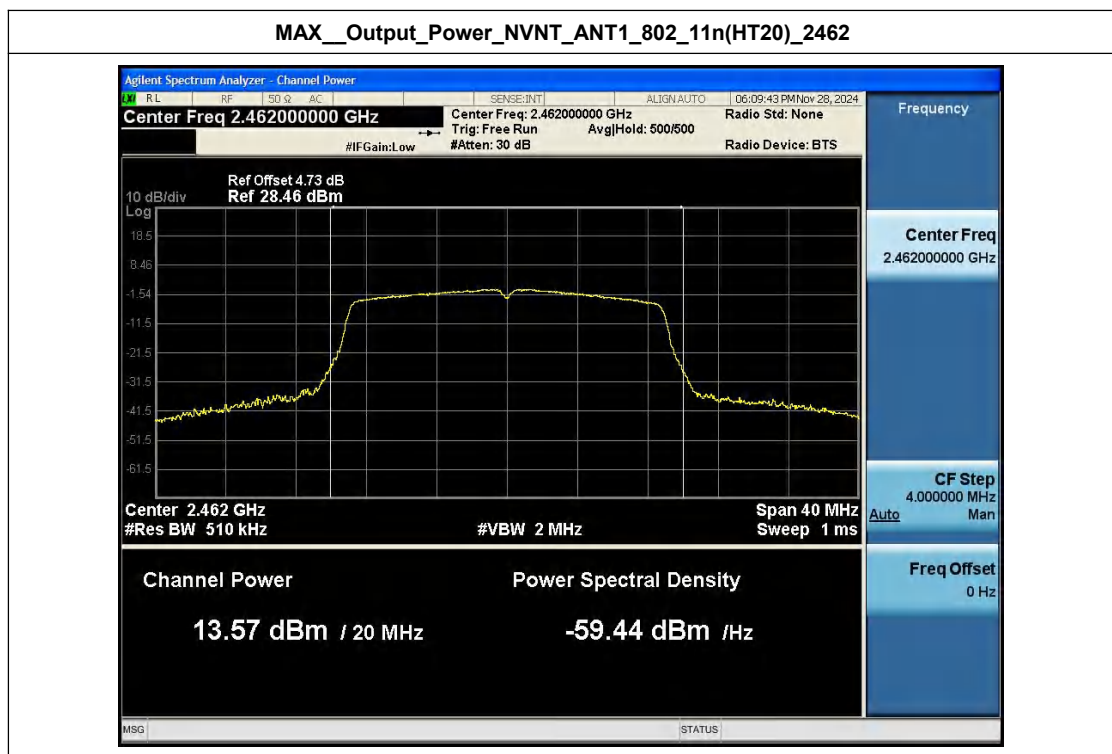


MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437





MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462

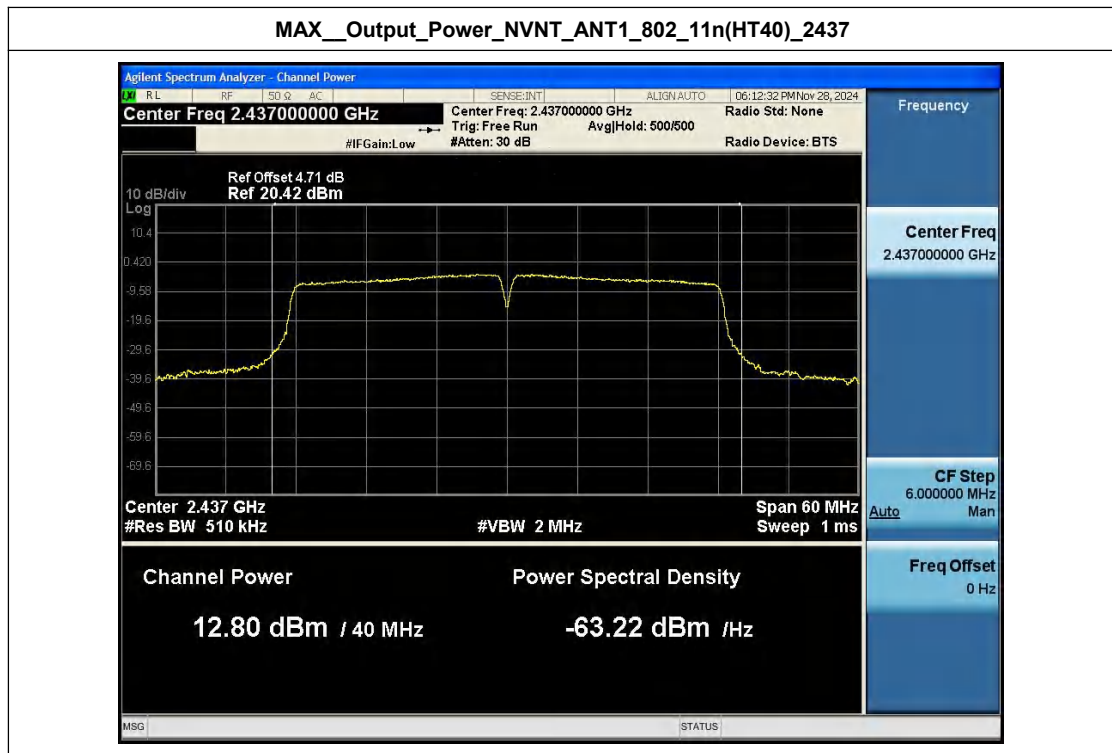


MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422





MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452





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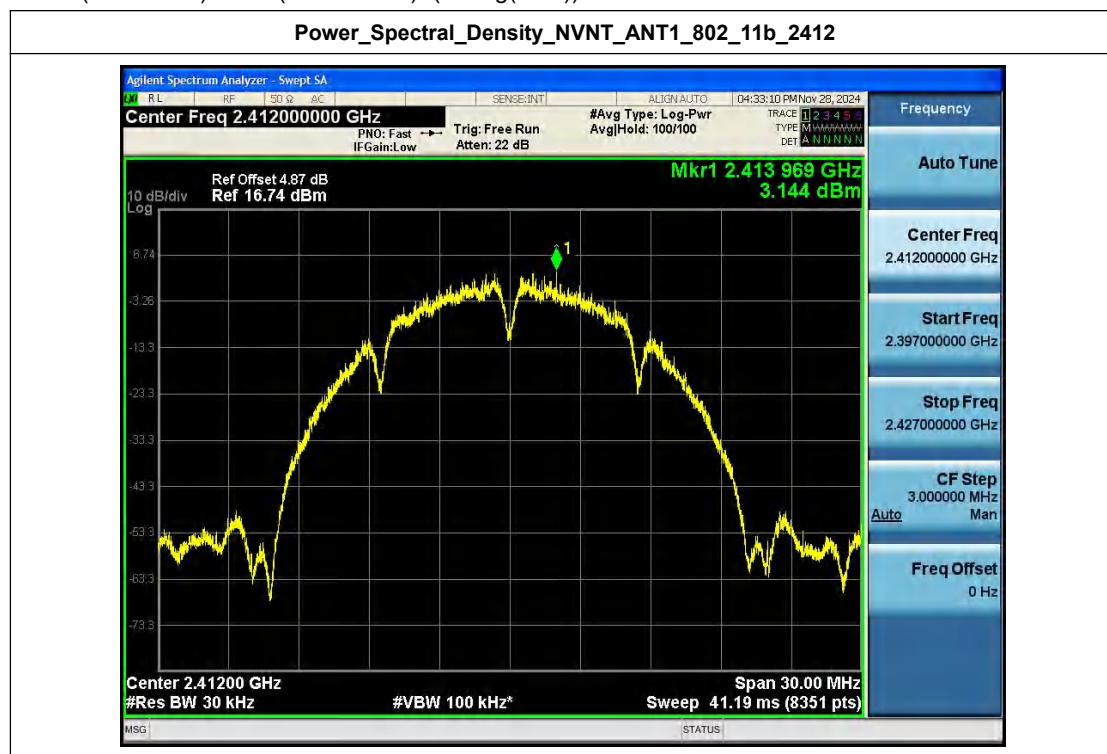


Appendix E: Power Spectral Density

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	3.14	0.25	-10.00	-6.61	8	Pass
NVNT	ANT1	802.11b	2437.00	1.34	0.25	-10.00	-8.41	8	Pass
NVNT	ANT1	802.11b	2462.00	2.15	0.26	-10.00	-7.59	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.85	1.37	-10.00	-9.48	8	Pass
NVNT	ANT1	802.11g	2437.00	-2.48	1.40	-10.00	-11.02	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.11	1.55	-10.00	-10.56	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	1.88	1.51	-10.00	-6.61	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	0.12	1.44	-10.00	-8.44	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	0.15	1.44	-10.00	-8.41	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-3.04	2.47	-10.00	-10.56	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-3.38	2.60	-10.00	-10.78	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-1.98	2.43	-10.00	-9.38	8	Pass

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

2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$

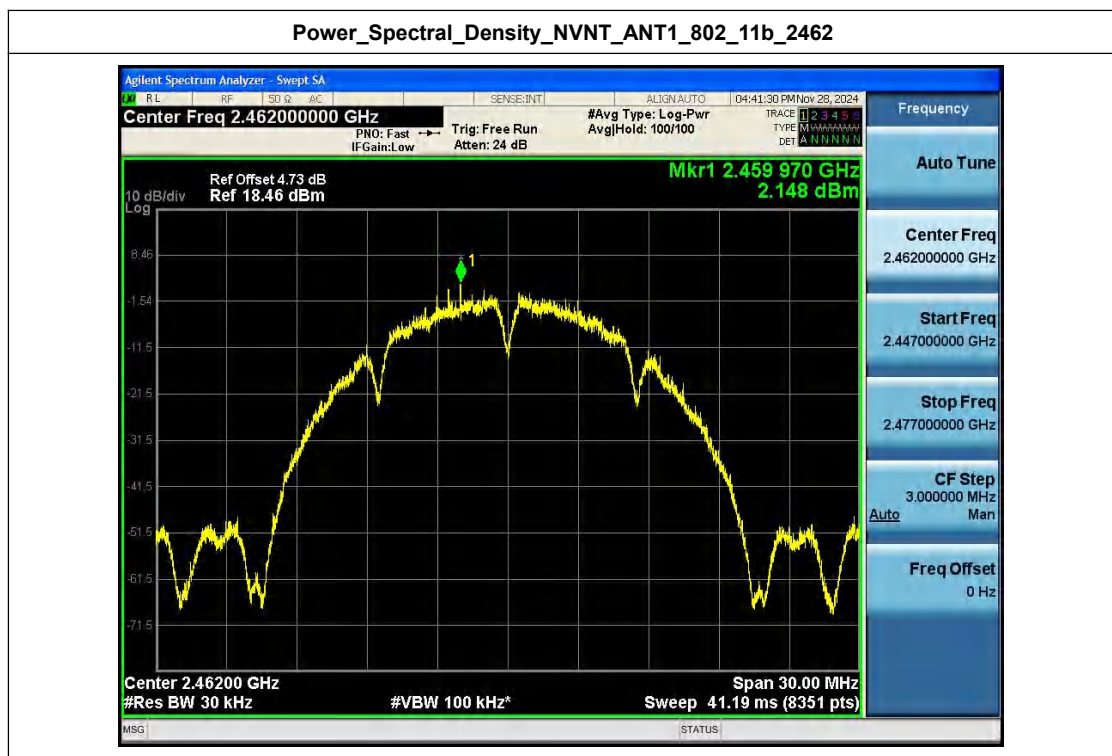


Power_Spectral_Density_NVNT_ANT1_802_11b_2437



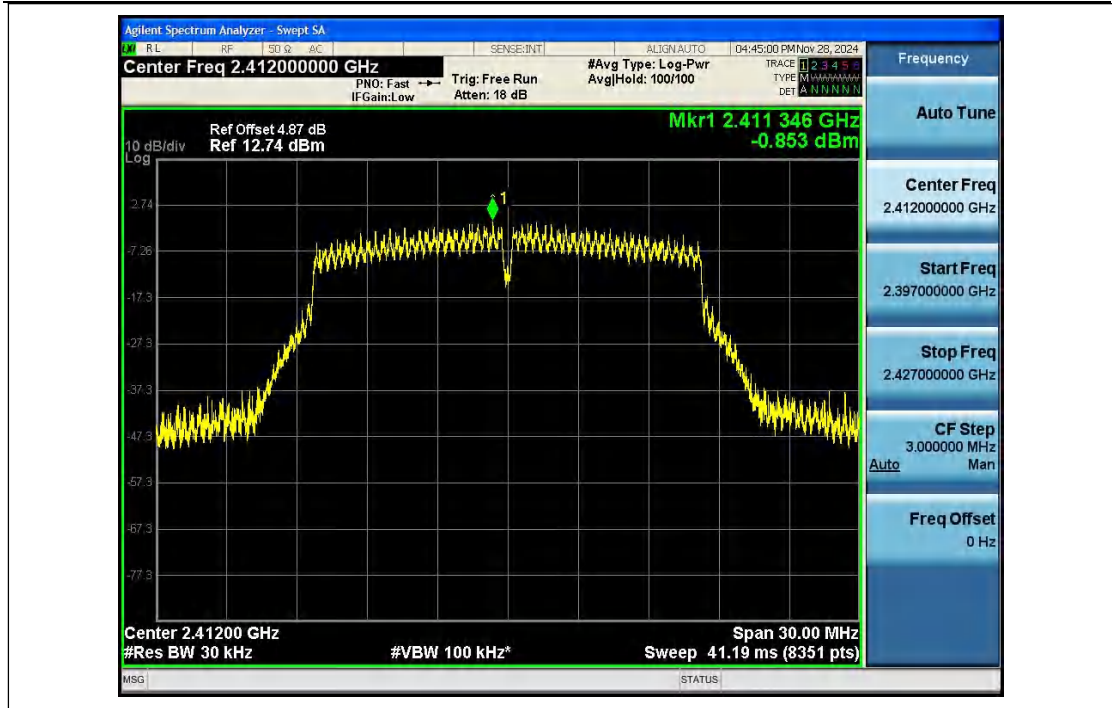


Power_Spectral_Density_NVNT_ANT1_802_11b_2462

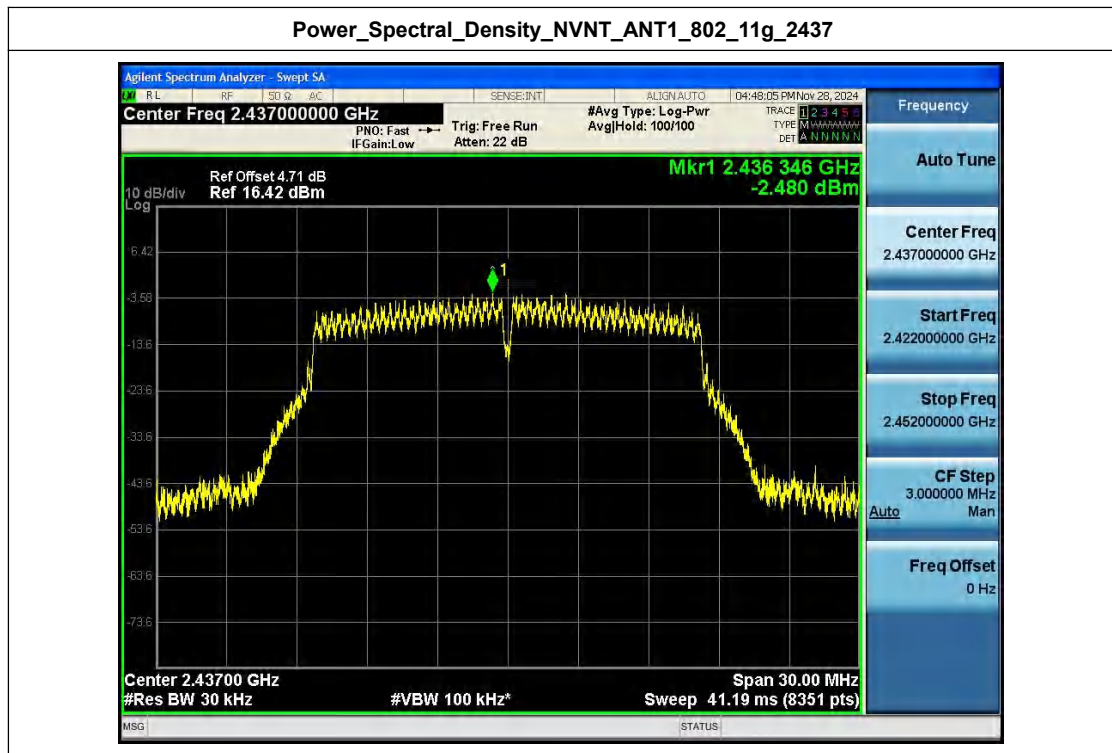


Power_Spectral_Density_NVNT_ANT1_802_11g_2412



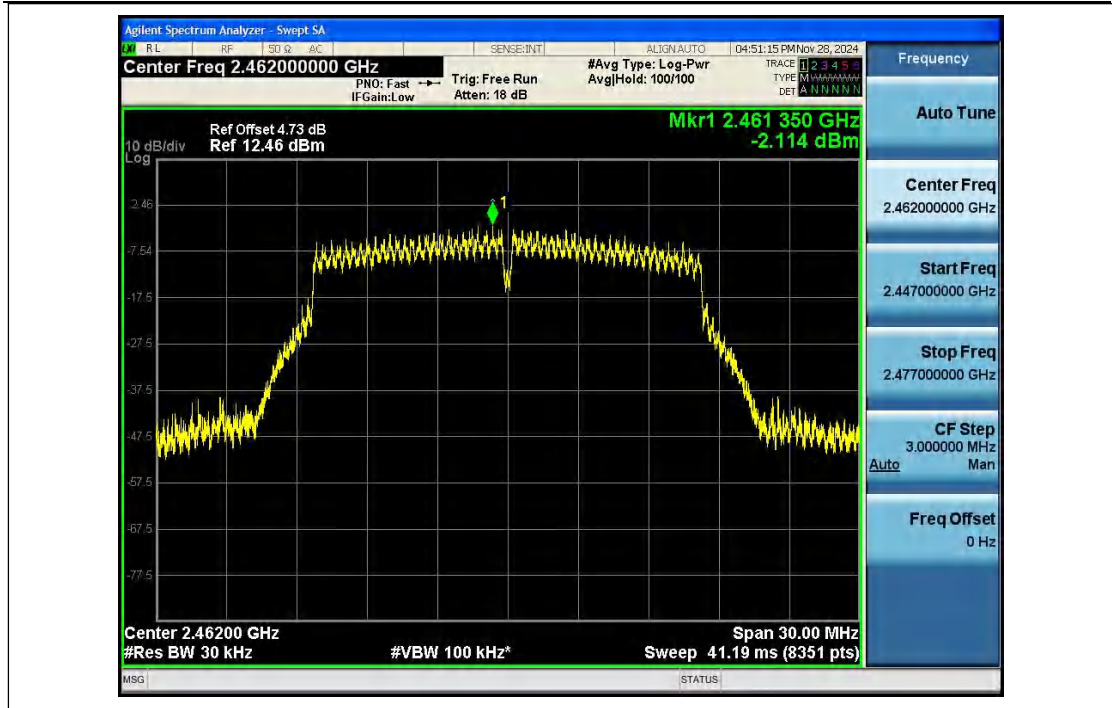


Power_Spectral_Density_NVNT_ANT1_802_11g_2437

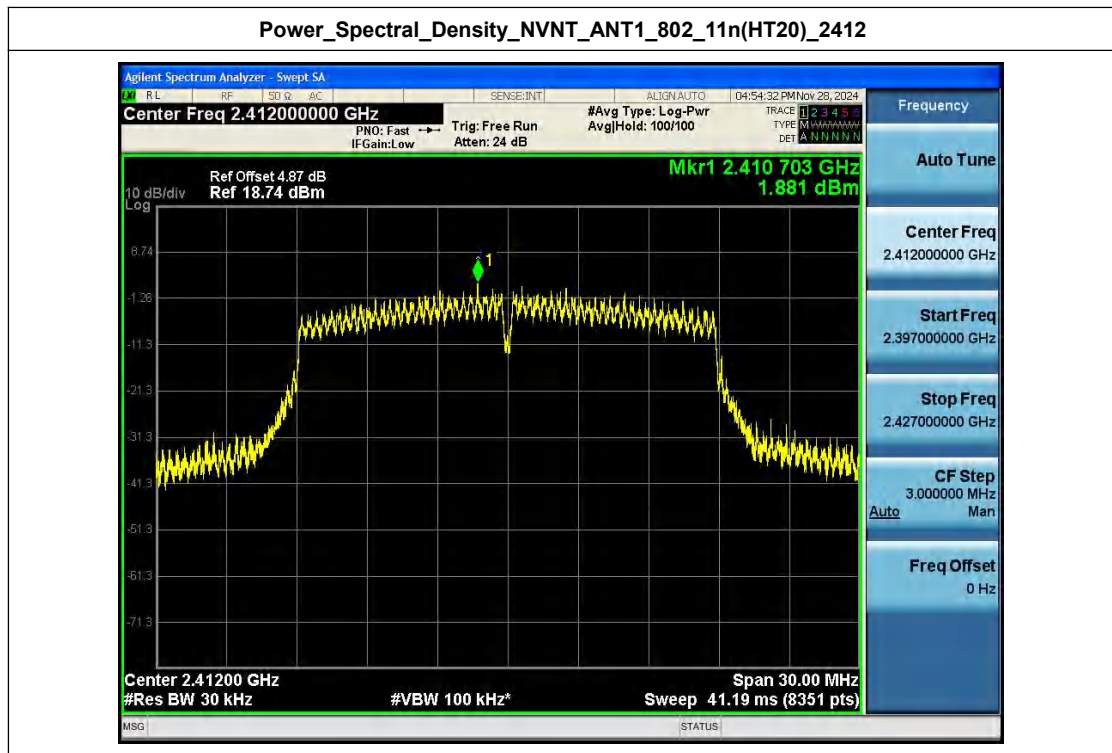


Power_Spectral_Density_NVNT_ANT1_802_11g_2462



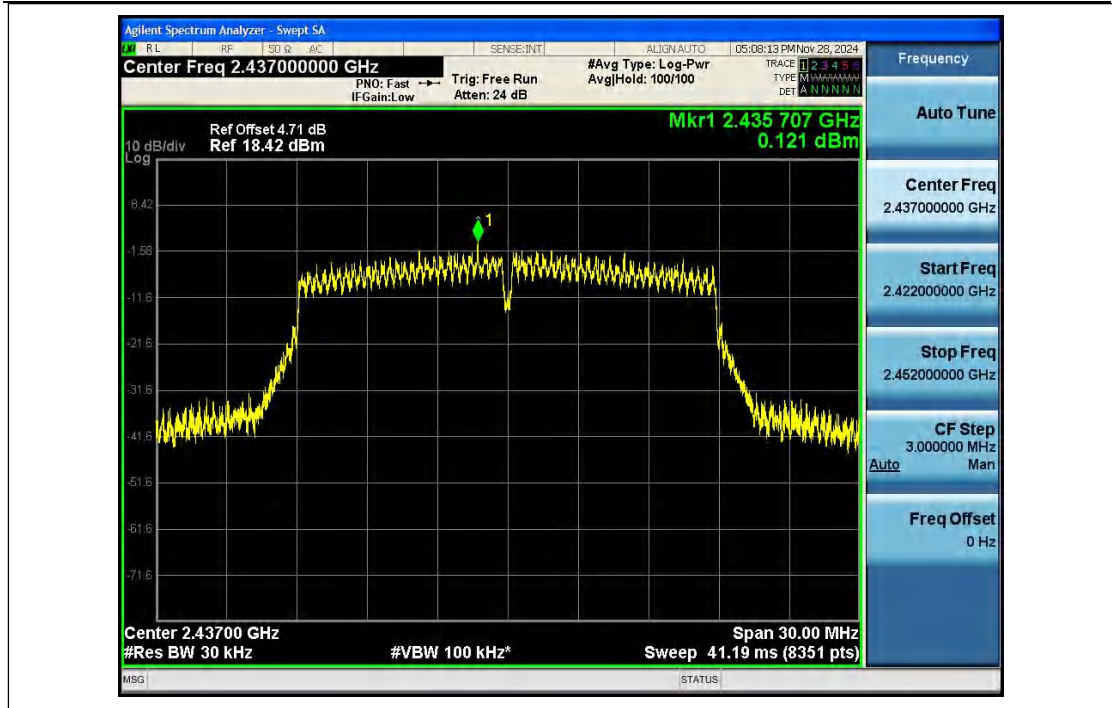


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412

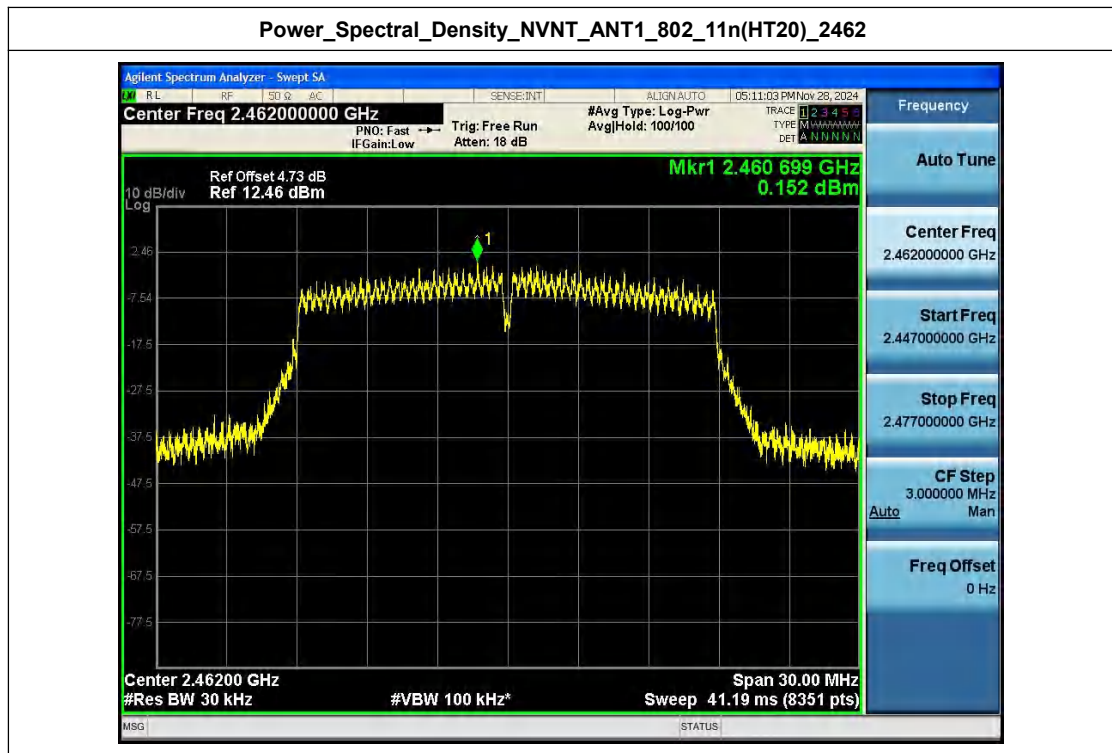


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



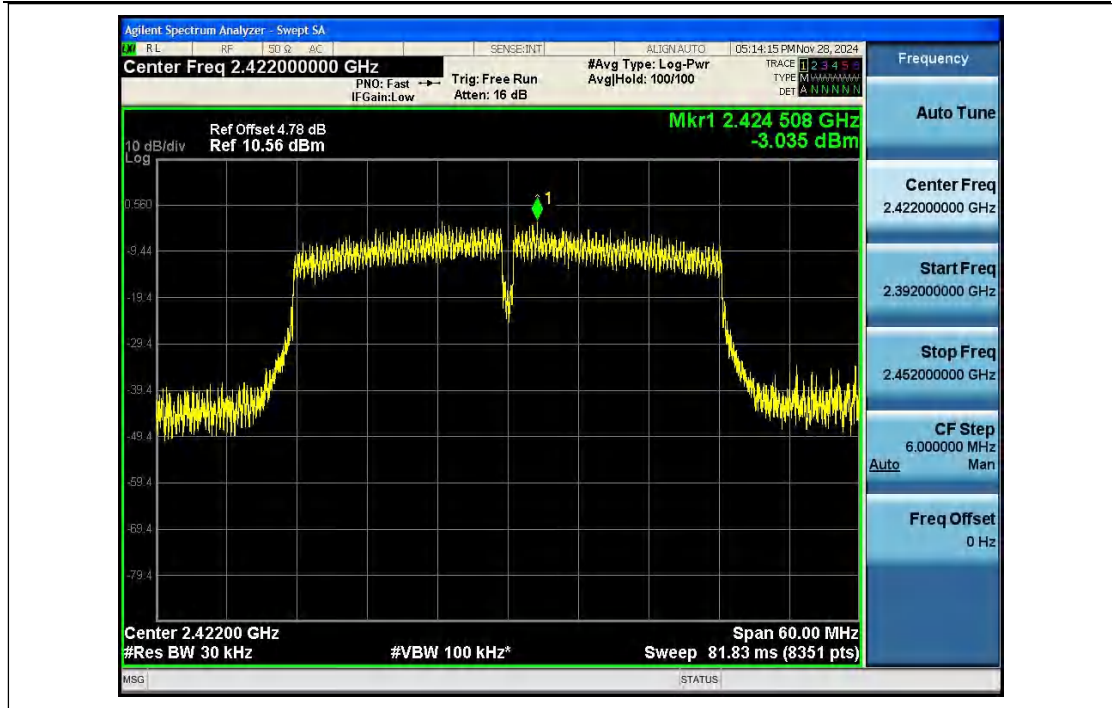


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462

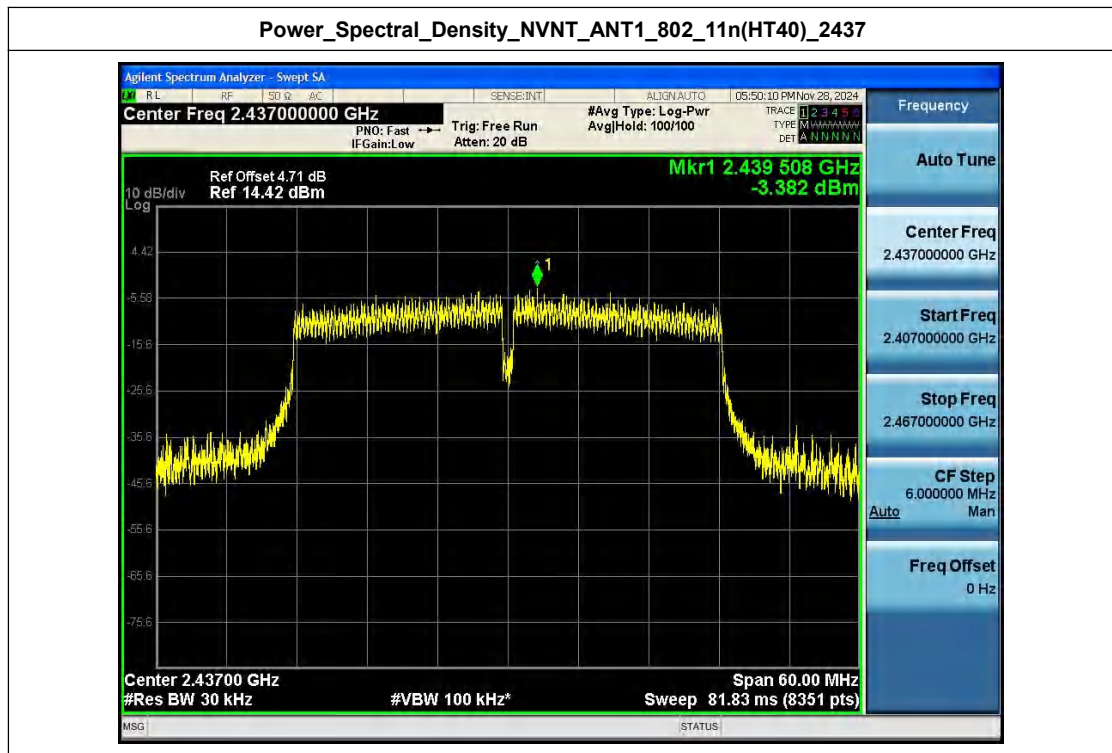


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



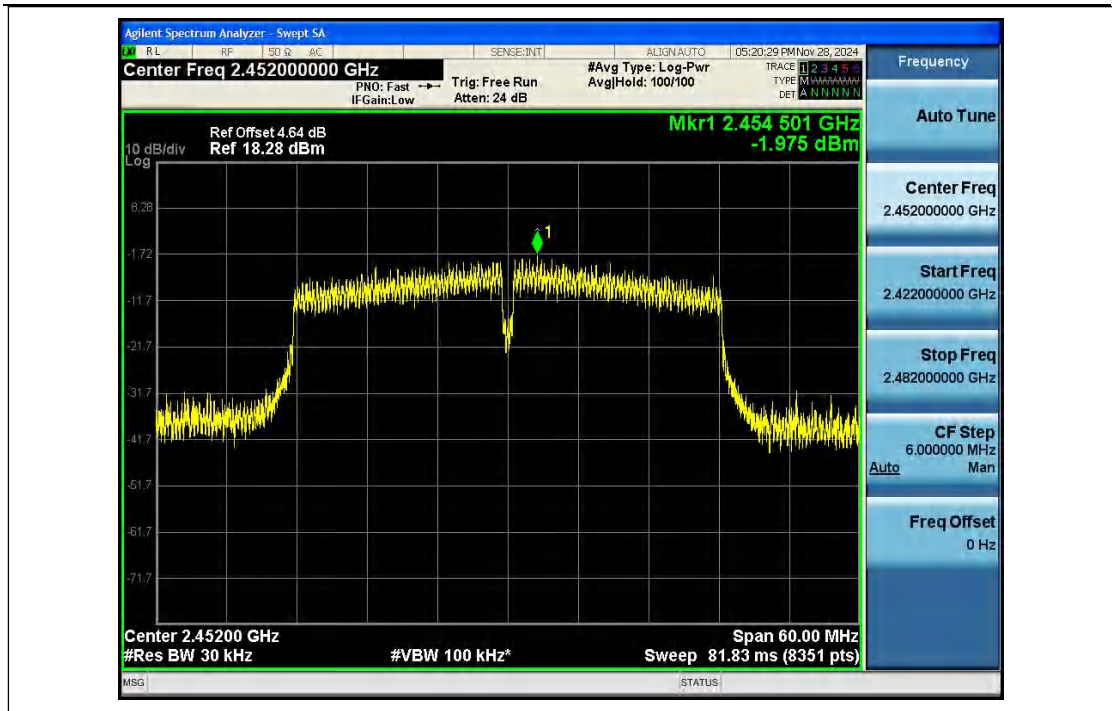


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452





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Appendix F: Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2394.896	-50.763	-25.028	Pass
NVNT	ANT1	802.11b	2462.00	2487.520	-56.702	-26.030	Pass
NVNT	ANT1	802.11g	2412.00	2397.808	-39.420	-27.579	Pass
NVNT	ANT1	802.11g	2462.00	2483.824	-47.264	-29.430	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	-31.867	-25.343	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-40.819	-28.438	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2394.480	-36.248	-31.620	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.700	-32.231	-31.742	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

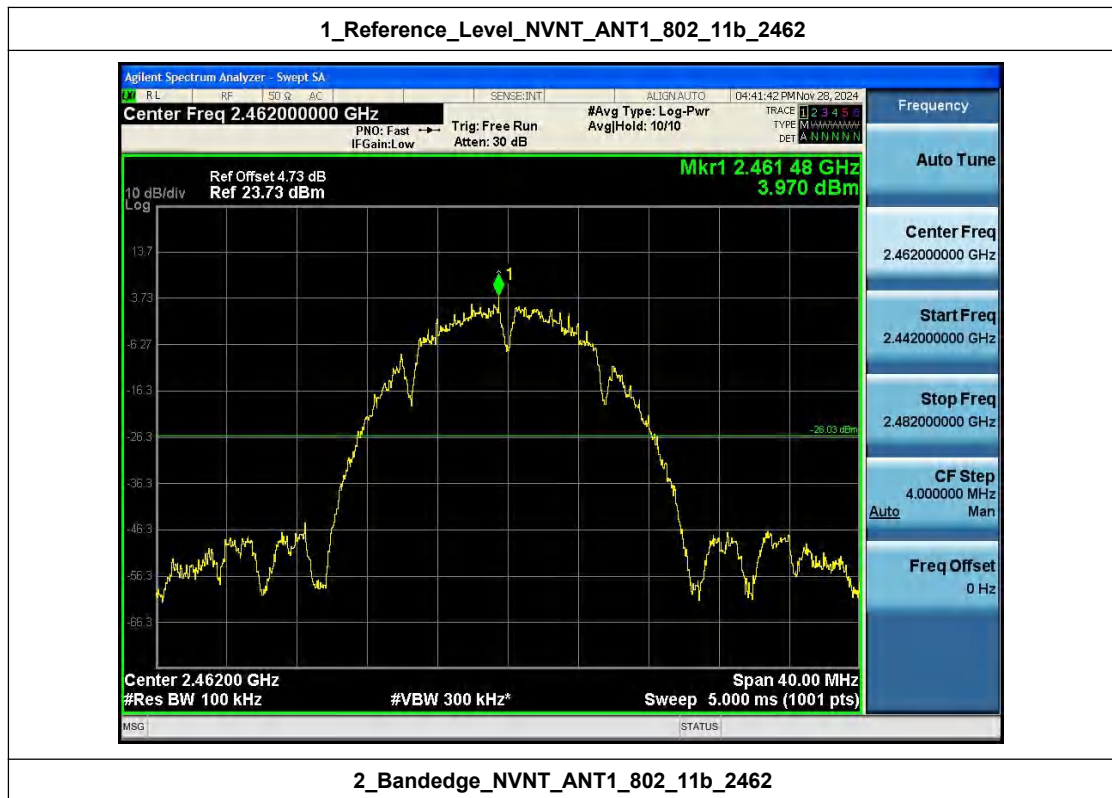


2_Bandedge_NVNT_ANT1_802_11b_2412





1_Reference_Level_NVNT_ANT1_802_11b_2462

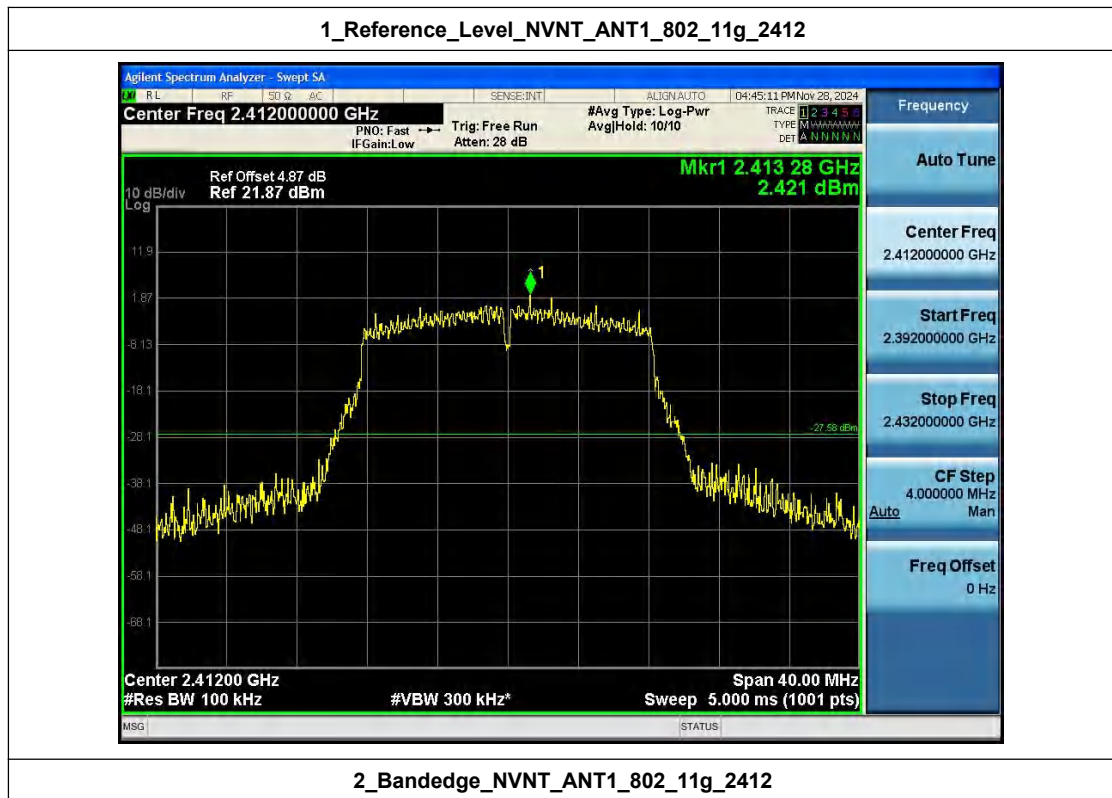


2_Bandedge_NVNT_ANT1_802_11b_2462





1_Reference_Level_NVNT_ANT1_802_11g_2412

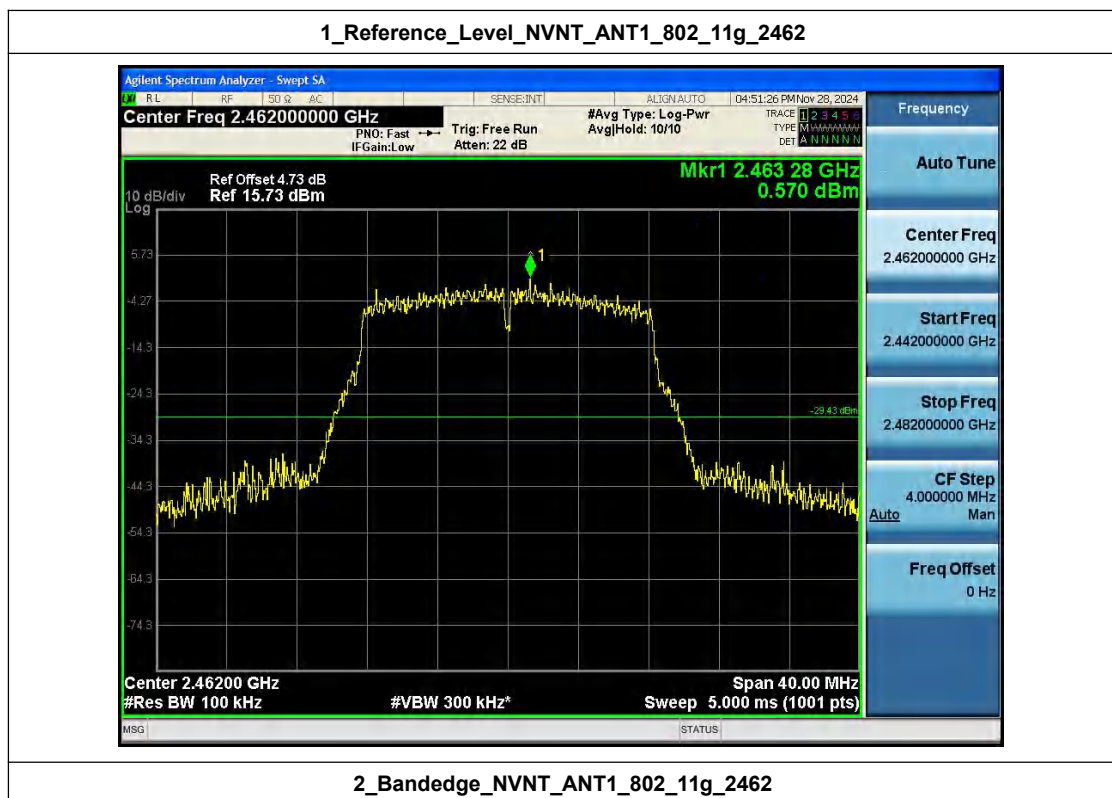


2_Bandedge_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2462

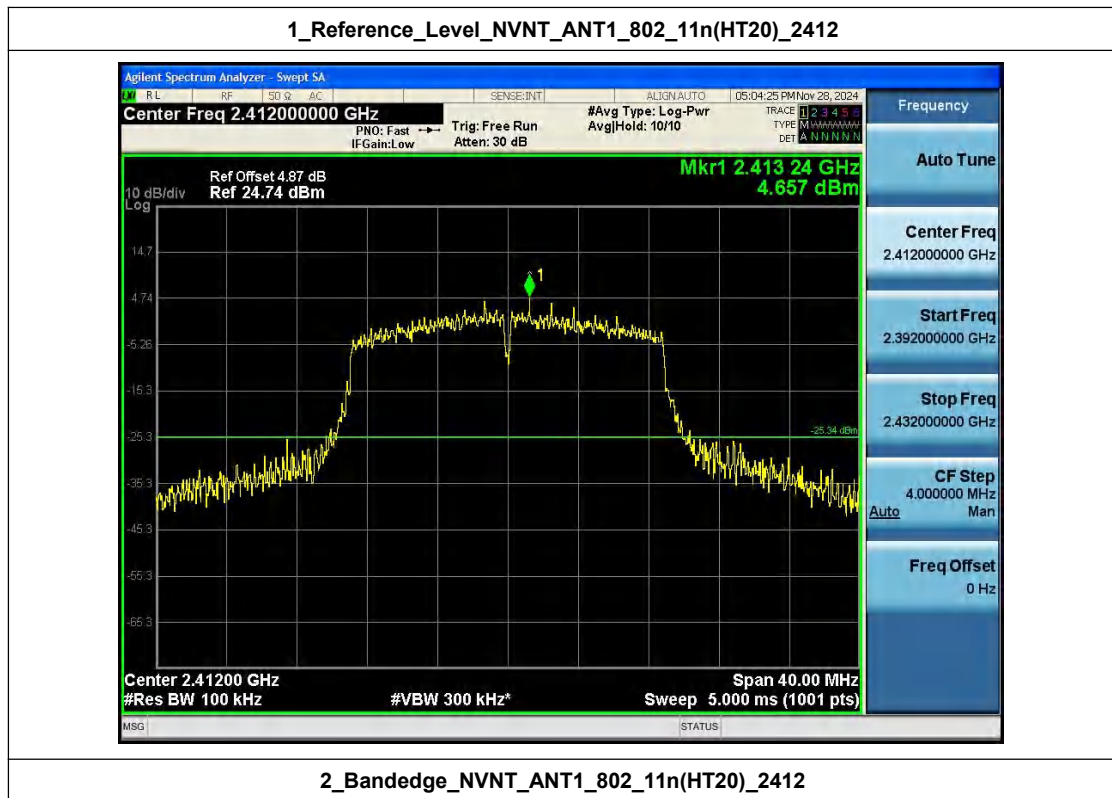


2_Bandedge_NVNT_ANT1_802_11g_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

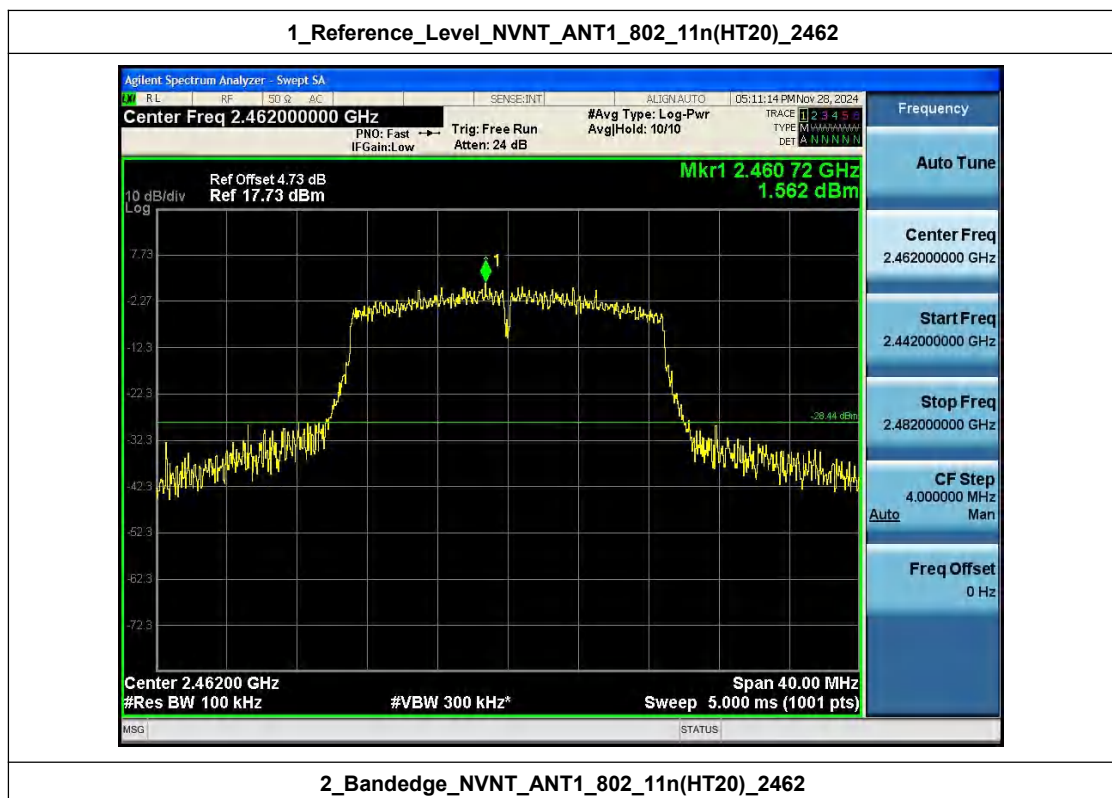


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

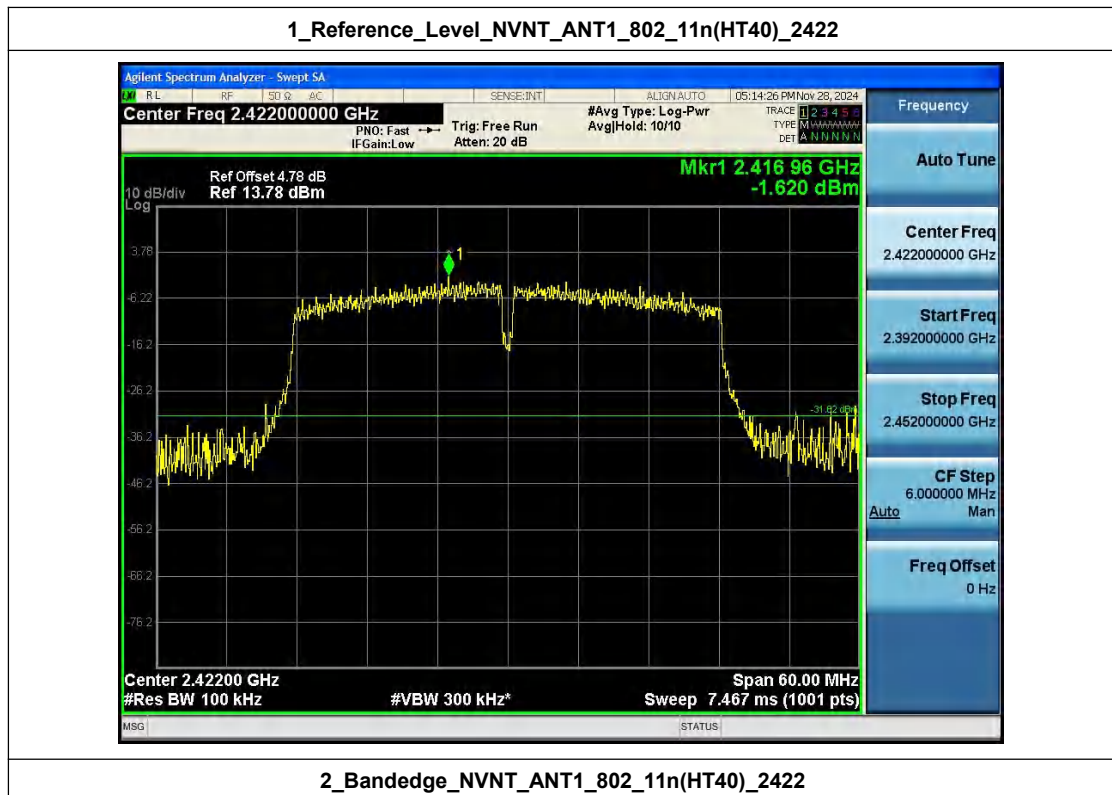


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

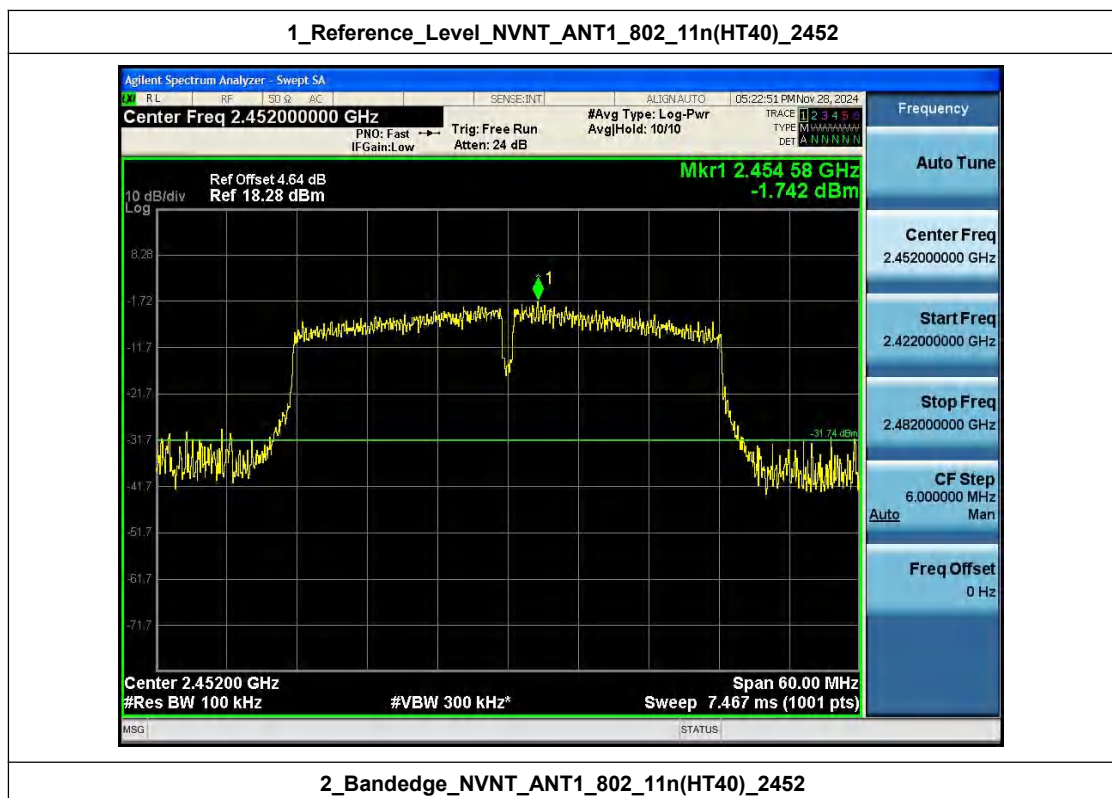


2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422





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	24852.677	-55.734	-25.028	Pass
NVNT	ANT1	802.11b	2437.00	24842.689	-53.645	-25.251	Pass
NVNT	ANT1	802.11b	2462.00	24797.743	-55.967	-26.030	Pass
NVNT	ANT1	802.11g	2412.00	24965.042	-55.685	-27.579	Pass
NVNT	ANT1	802.11g	2437.00	24817.719	-56.219	-28.301	Pass
NVNT	ANT1	802.11g	2462.00	24772.773	-61.787	-29.430	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24895.126	-56.118	-24.792	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24832.701	-58.449	-26.273	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24777.767	-59.695	-28.438	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24860.168	-64.663	-31.620	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24840.192	-55.754	-28.254	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24857.671	-60.417	-27.763	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

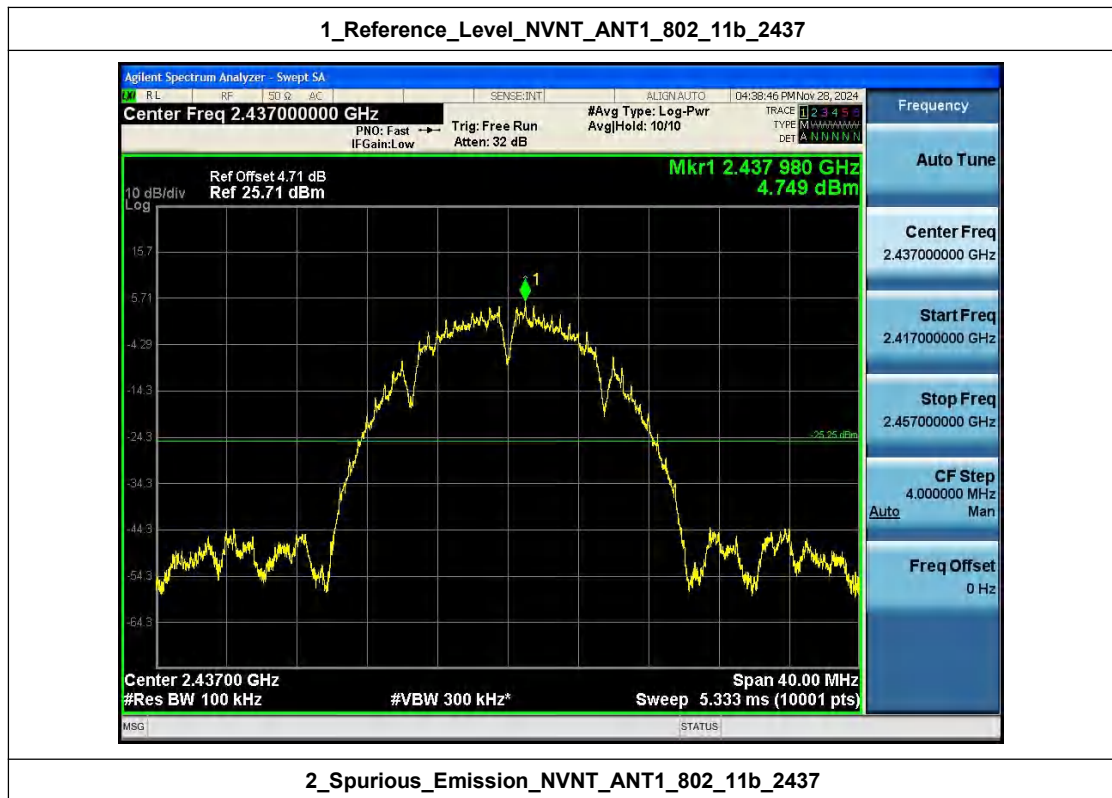


2_Spurious_Emission_NVNT_ANT1_802_11b_2412





1_Reference_Level_NVNT_ANT1_802_11b_2437

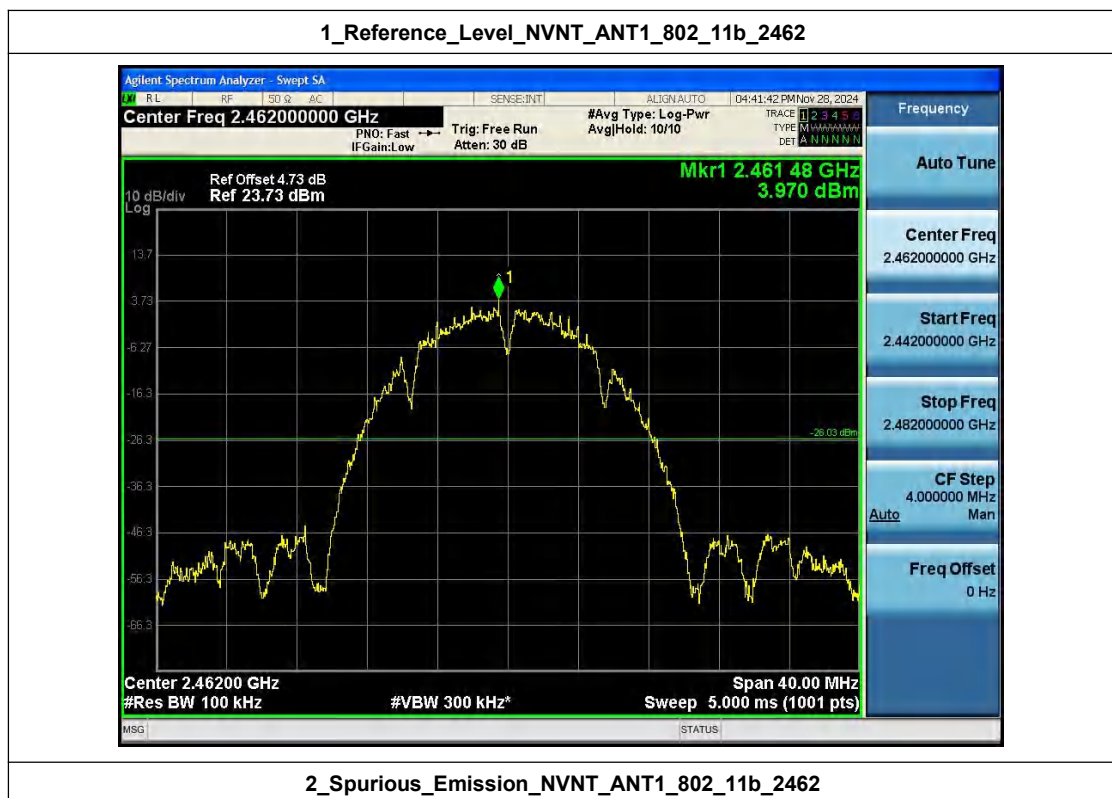


2_Spurious_Emission_NVNT_ANT1_802_11b_2437





1_Reference_Level_NVNT_ANT1_802_11b_2462

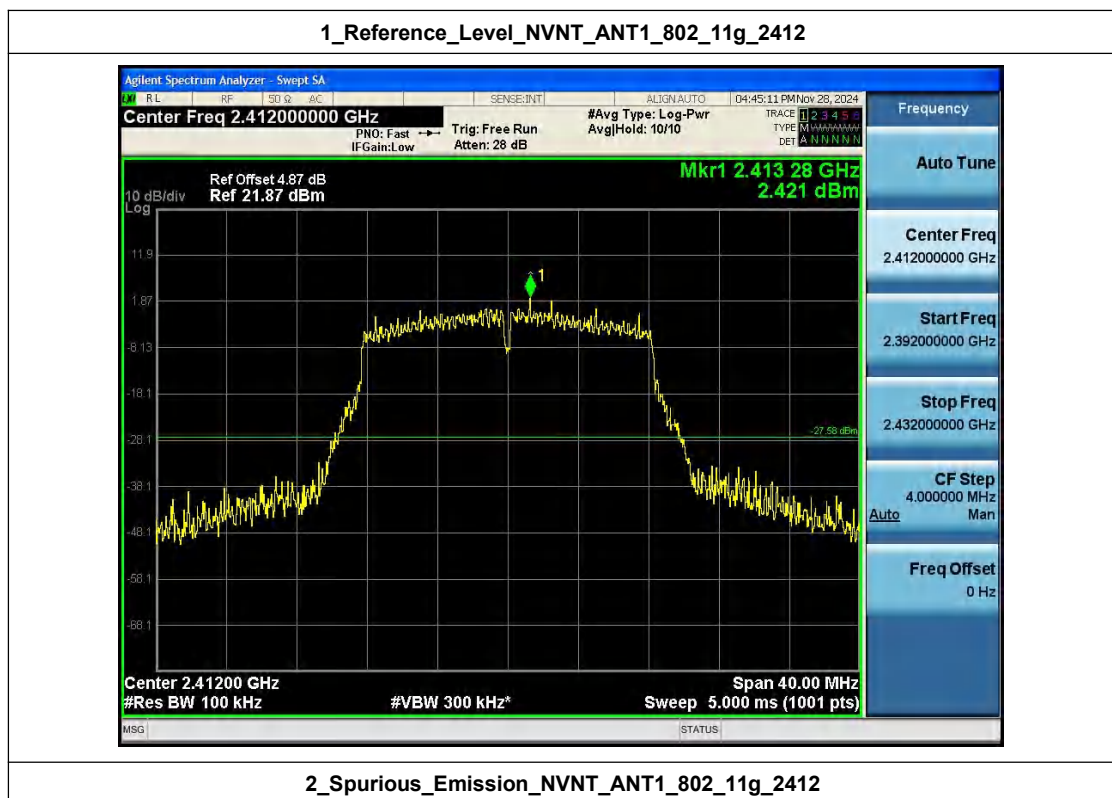


2_Spurious_Emission_NVNT_ANT1_802_11b_2462





1_Reference_Level_NVNT_ANT1_802_11g_2412

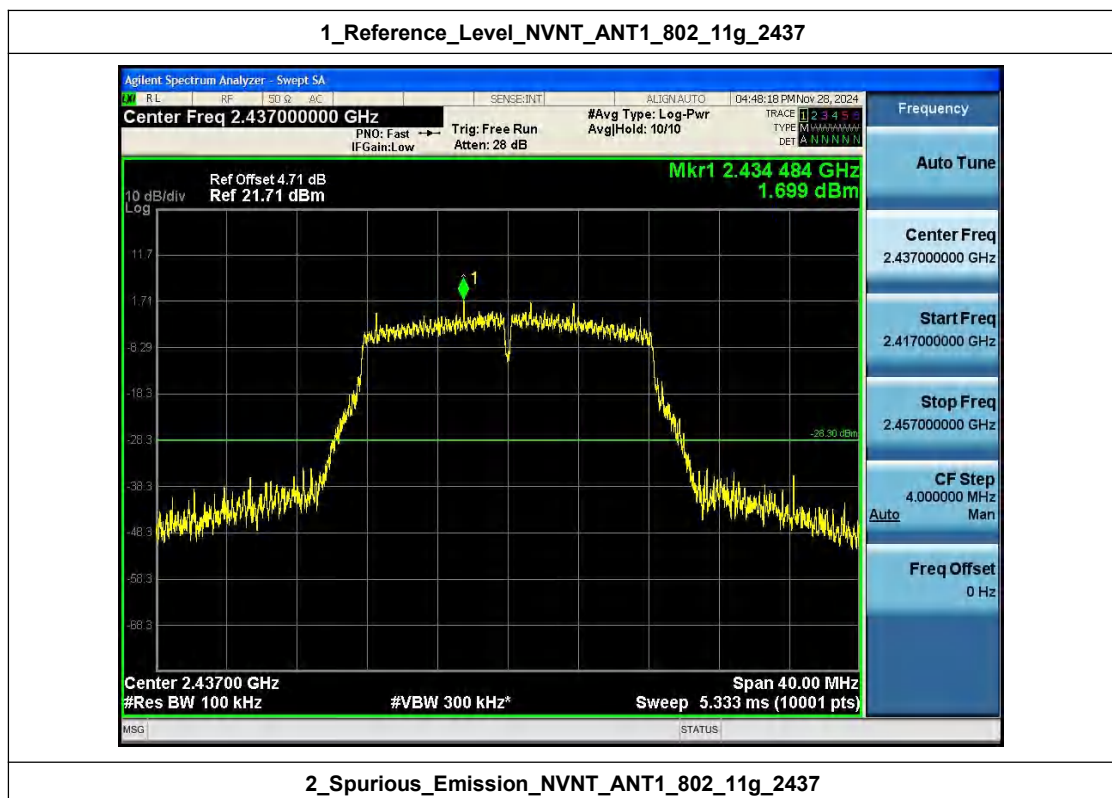


2_Spurious_Emission_NVNT_ANT1_802_11g_2412





1_Reference_Level_NVNT_ANT1_802_11g_2437

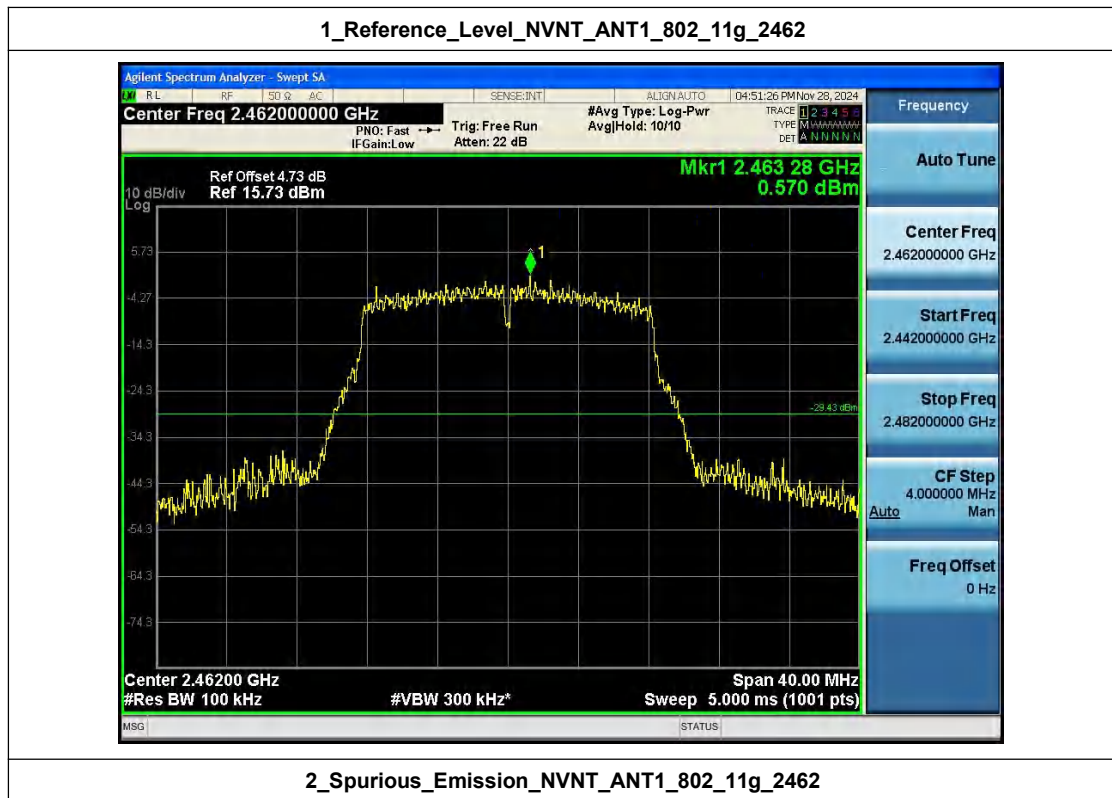


2_Spurious_Emission_NVNT_ANT1_802_11g_2437





1_Reference_Level_NVNT_ANT1_802_11g_2462

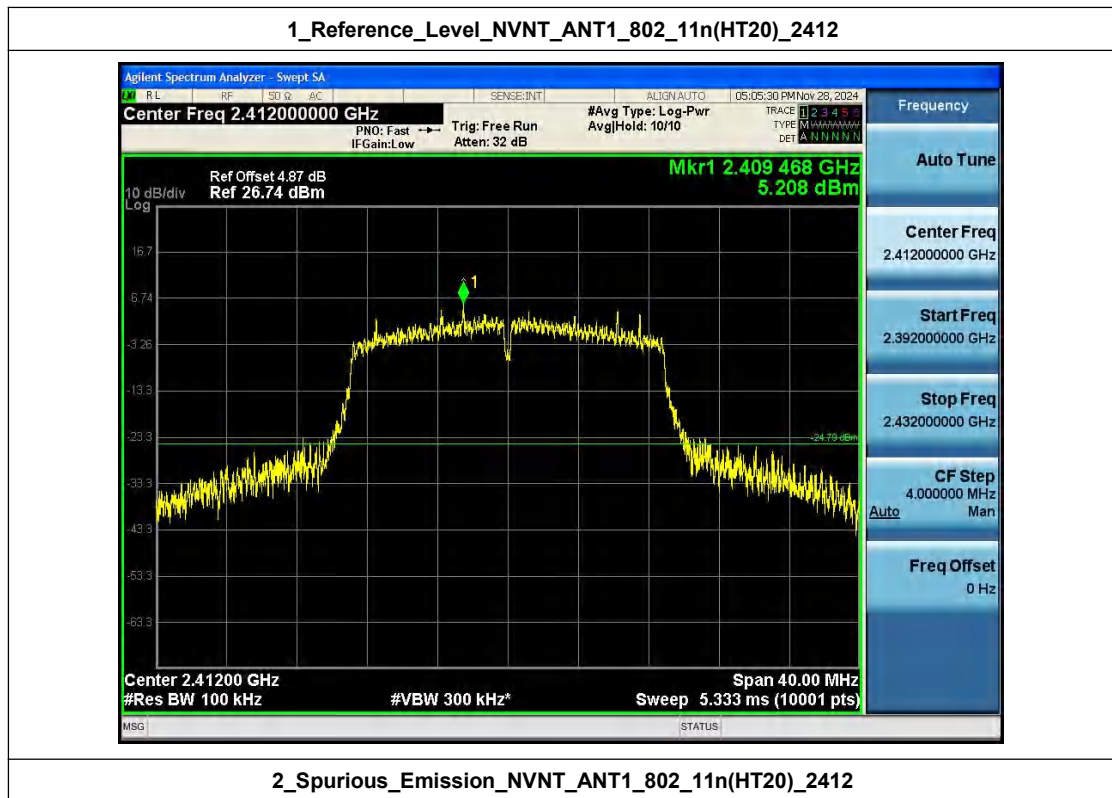


2_Spurious_Emission_NVNT_ANT1_802_11g_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

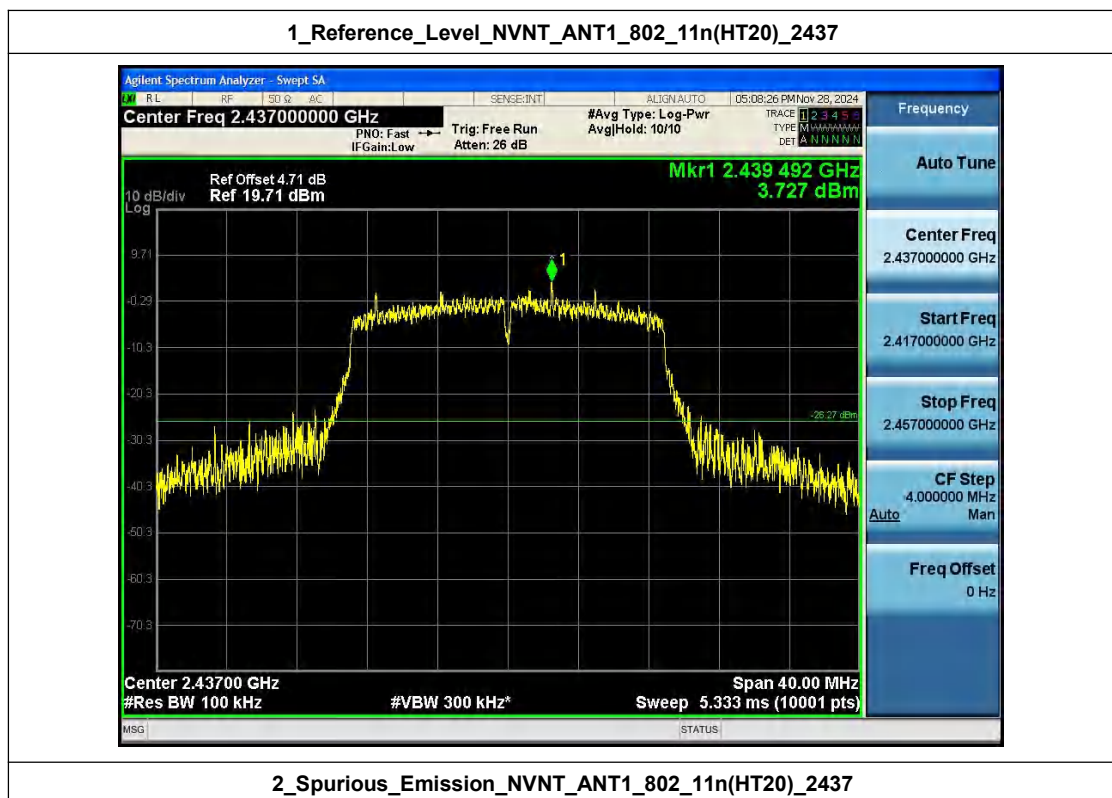


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437

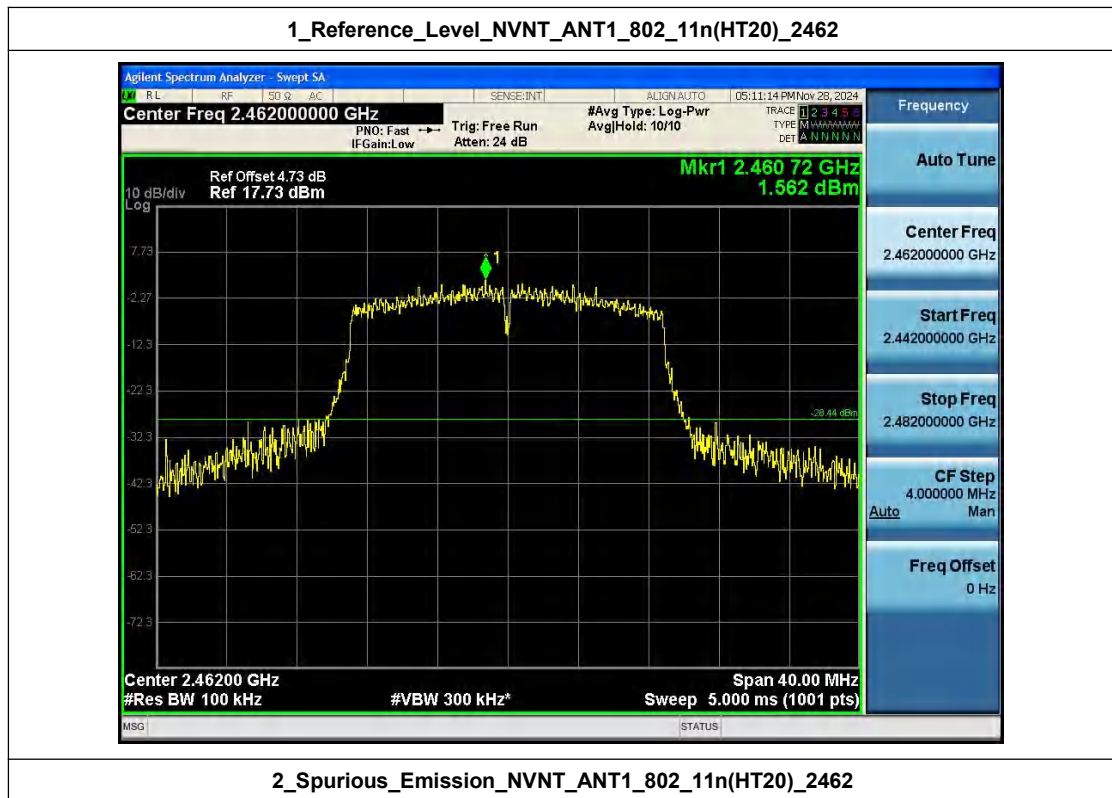


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437





1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

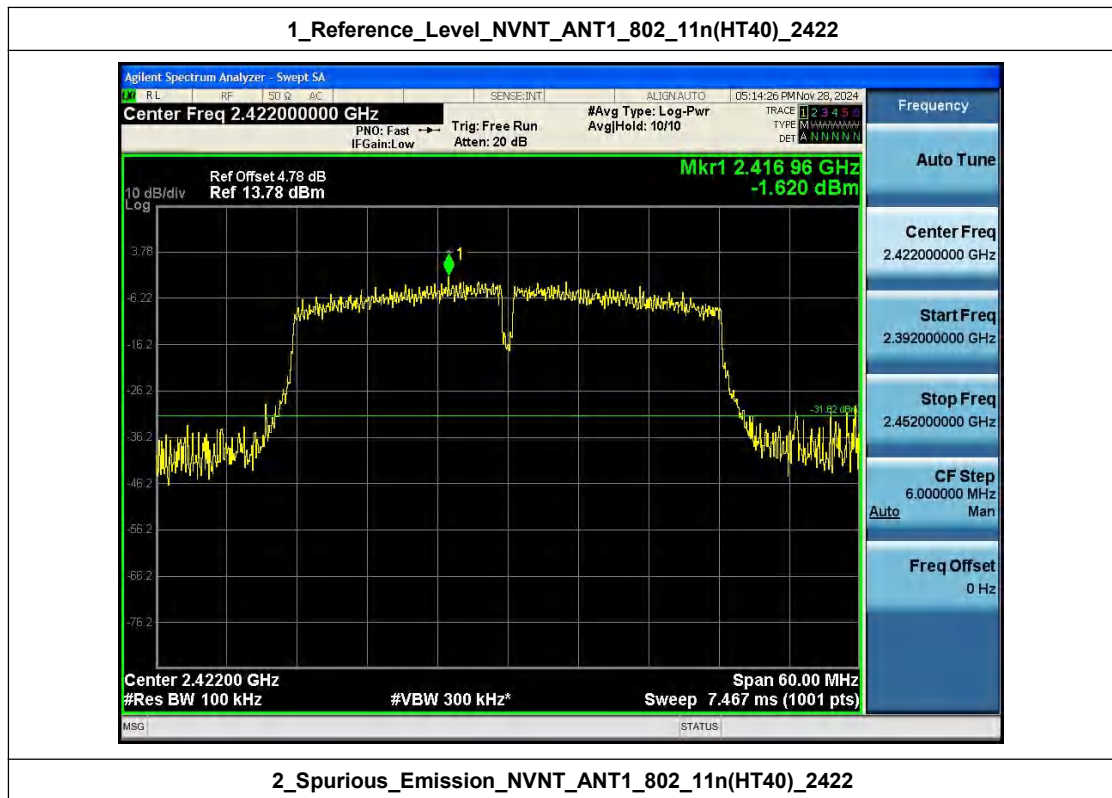


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

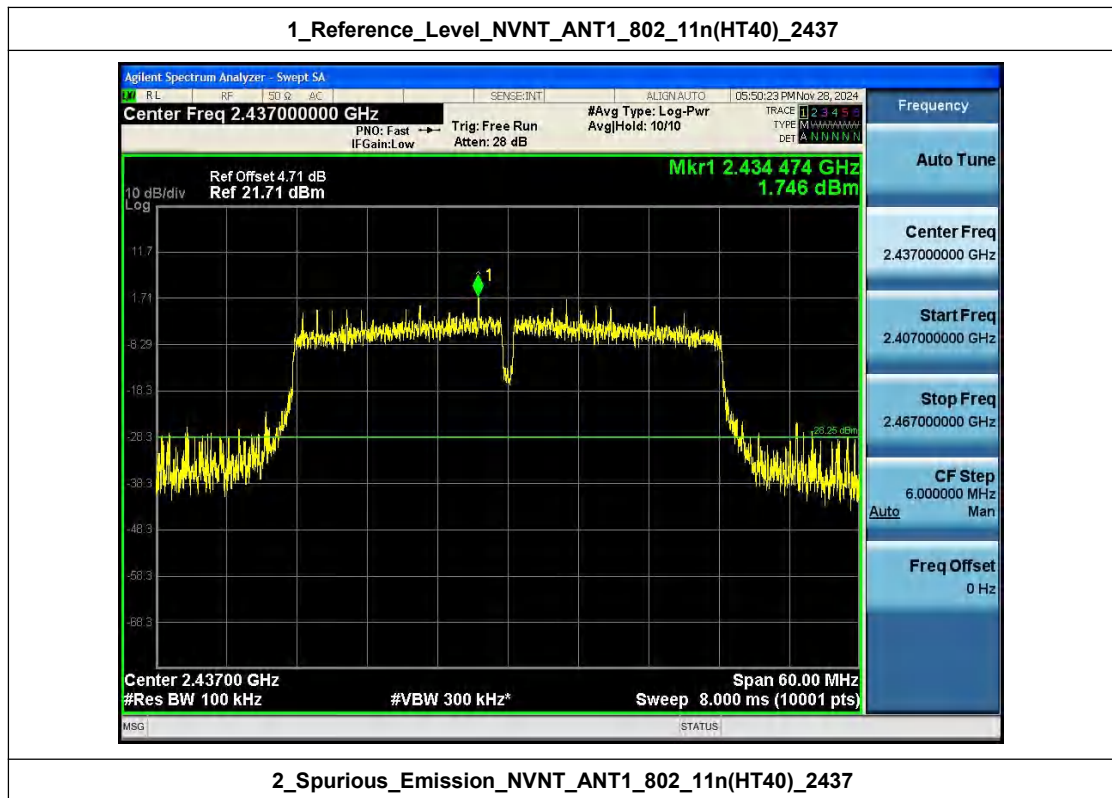


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437

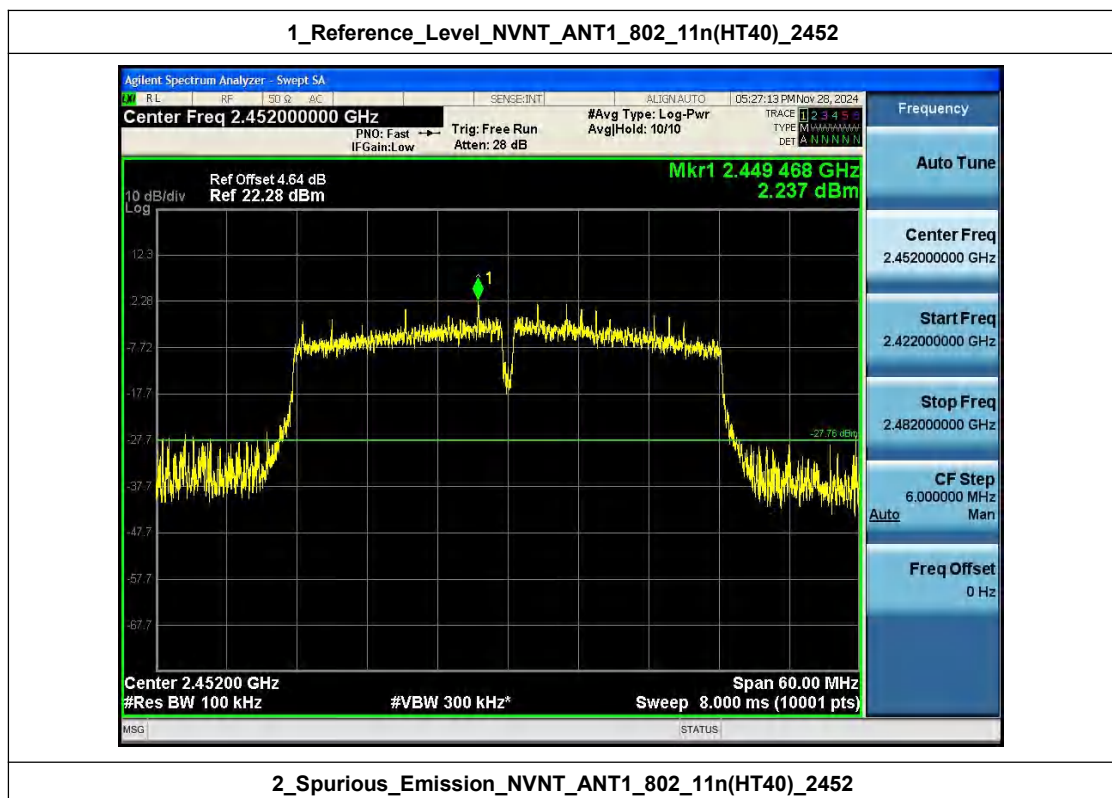


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452





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