

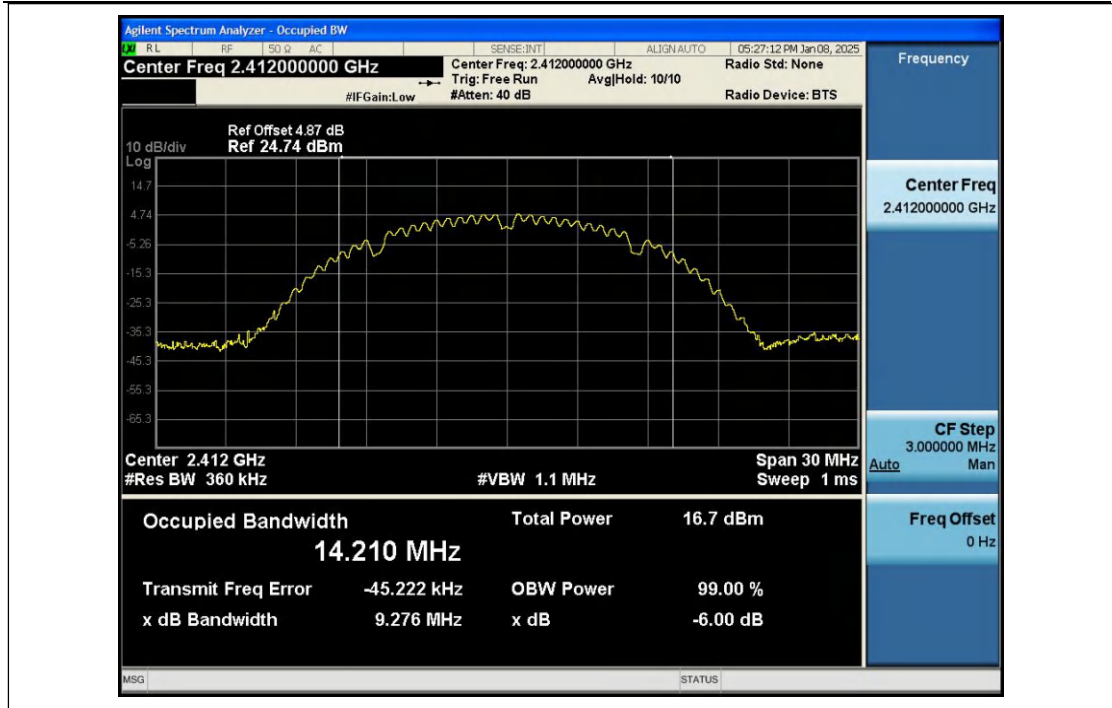
Appendix Test Data

Report No.:	1812C50000112502	Test Sample No.:	1-2-2
Start Test Date:	2025.1.6	Finish Test Date:	2025.1.8
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.5°C	Relative Humidity:	47%
Pressure:	101kPa		

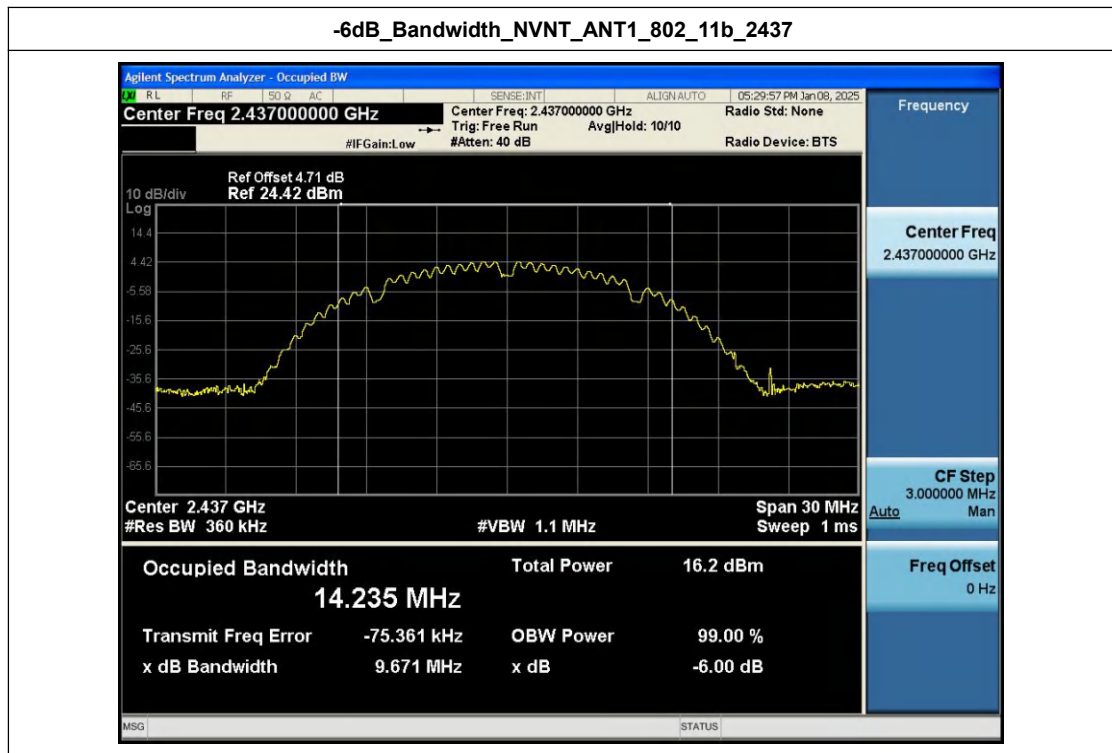
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.28	500	Pass
NVNT	ANT1	802.11b	2437.00	9.67	500	Pass
NVNT	ANT1	802.11b	2462.00	9.70	500	Pass
NVNT	ANT1	802.11g	2412.00	16.56	500	Pass
NVNT	ANT1	802.11g	2437.00	16.67	500	Pass
NVNT	ANT1	802.11g	2462.00	16.70	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	18.00	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.85	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.90	500	Pass

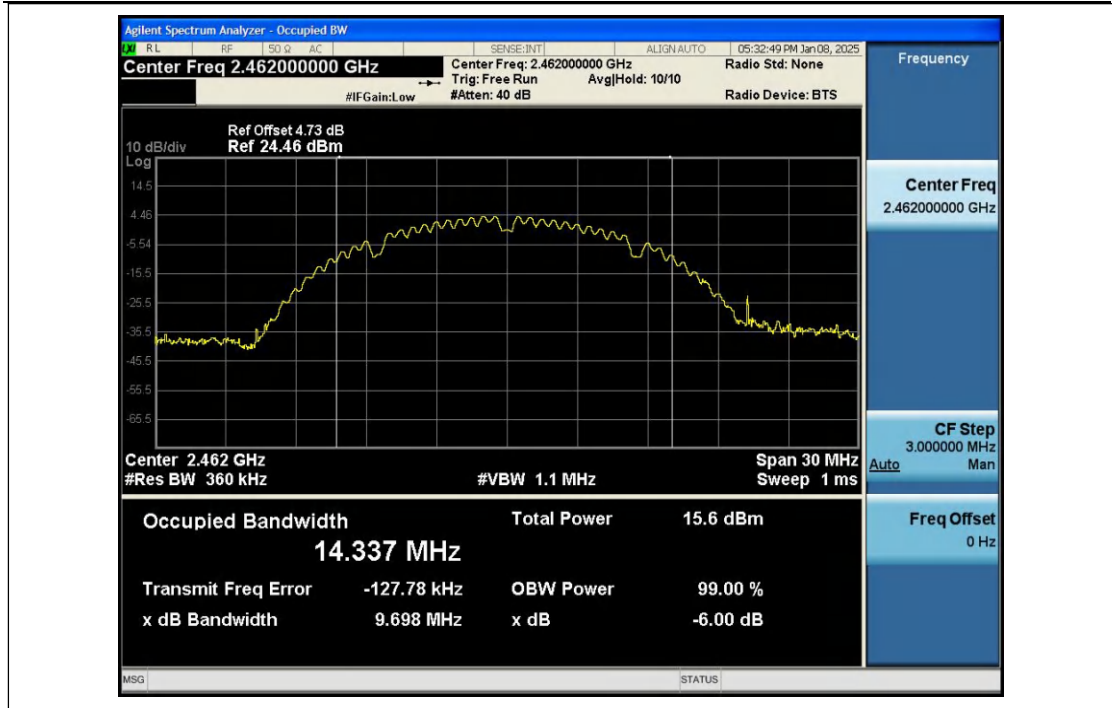
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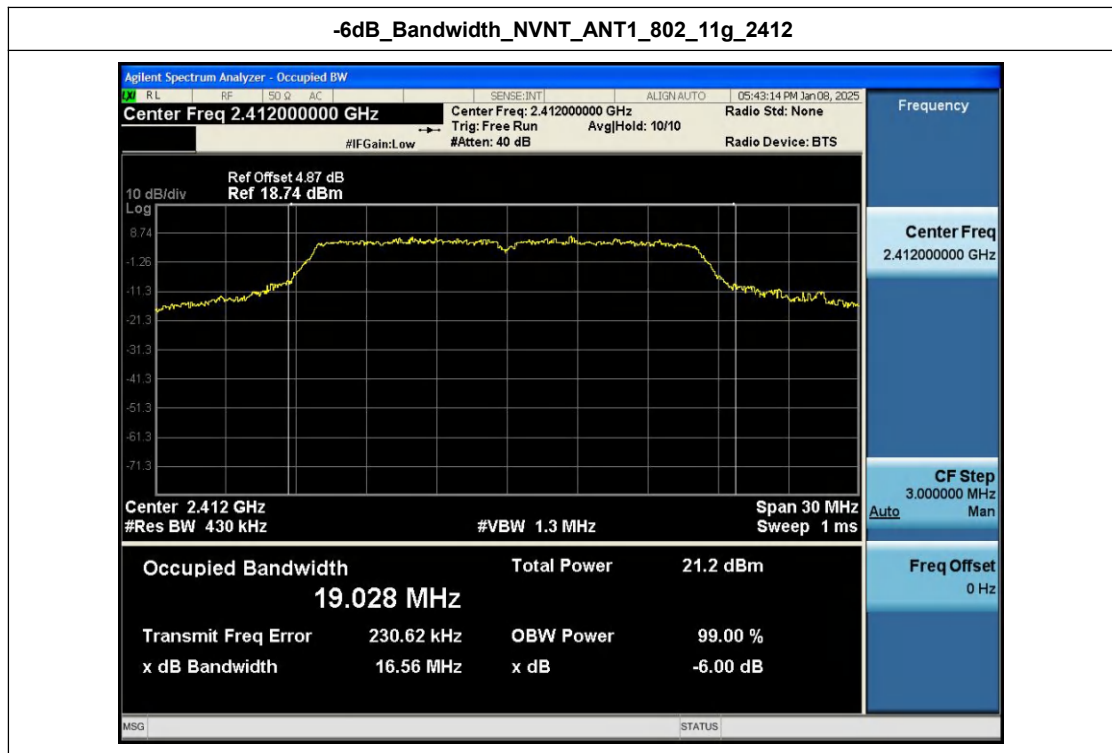
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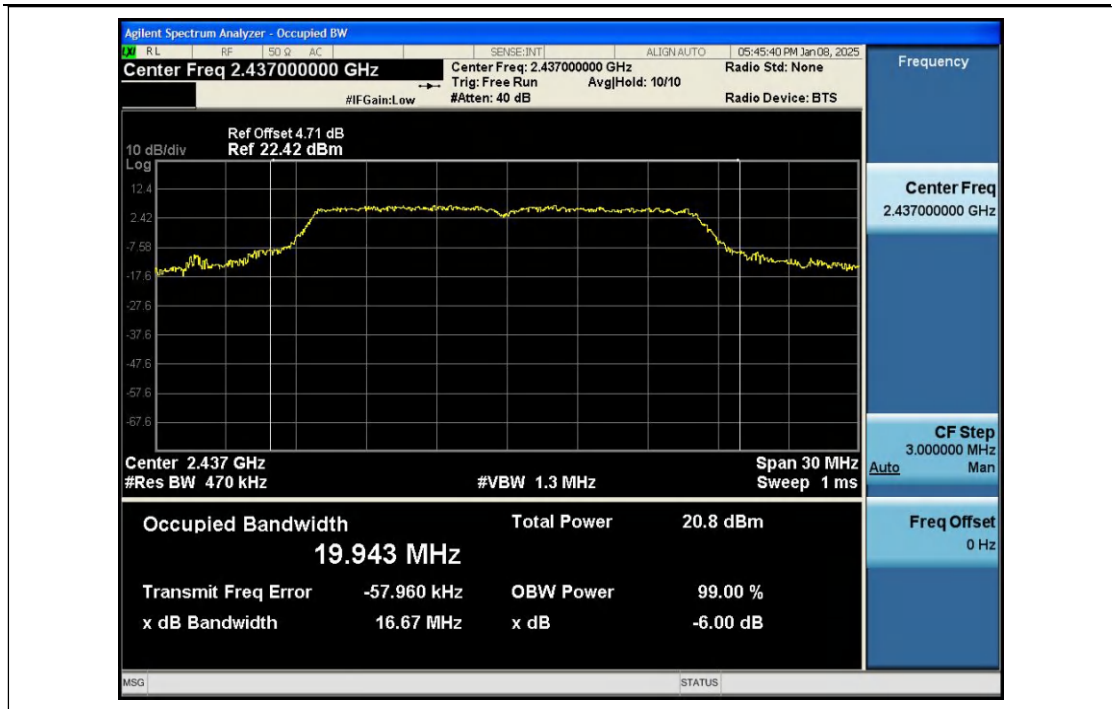
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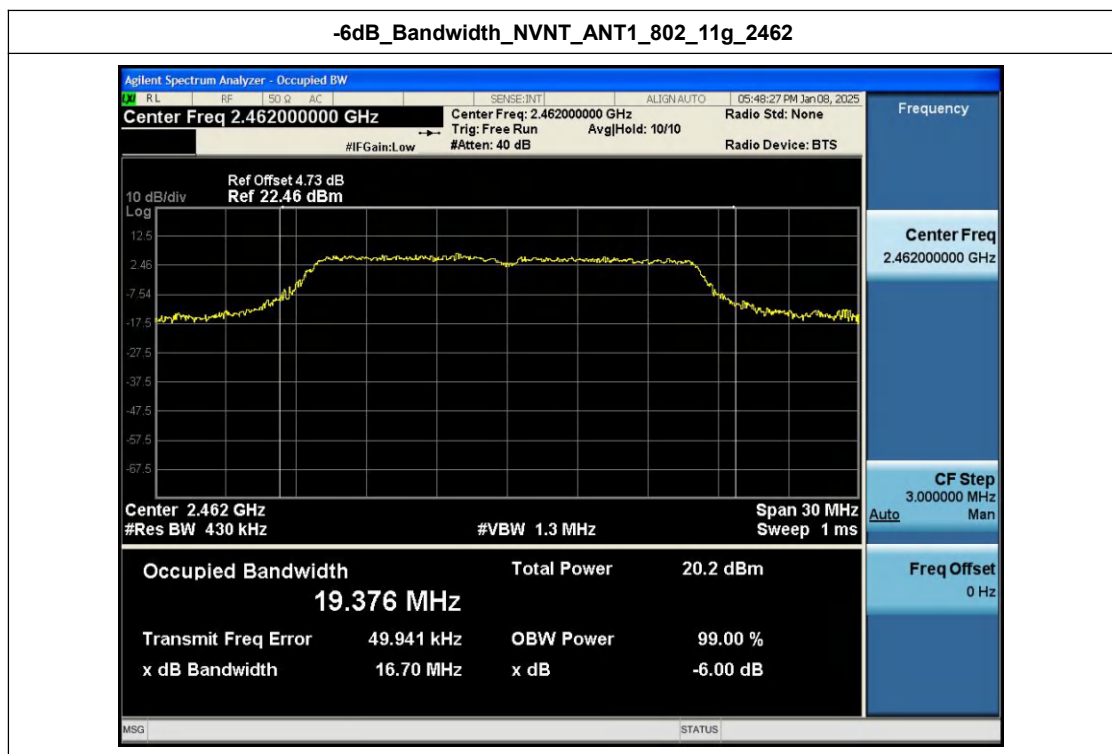
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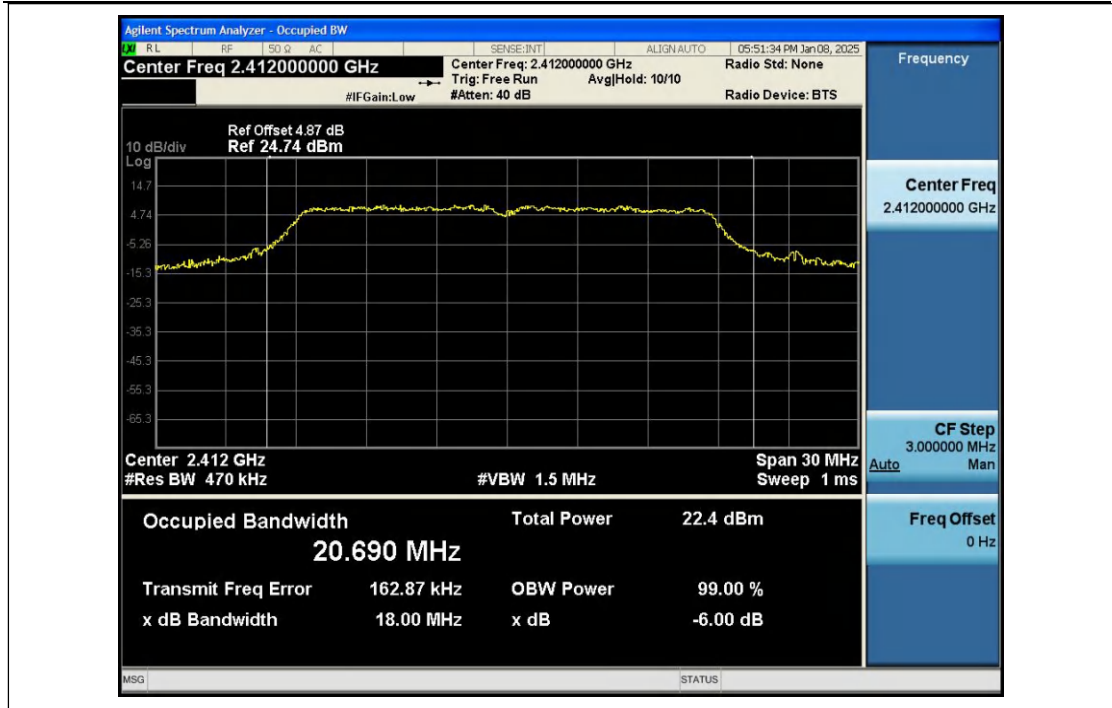
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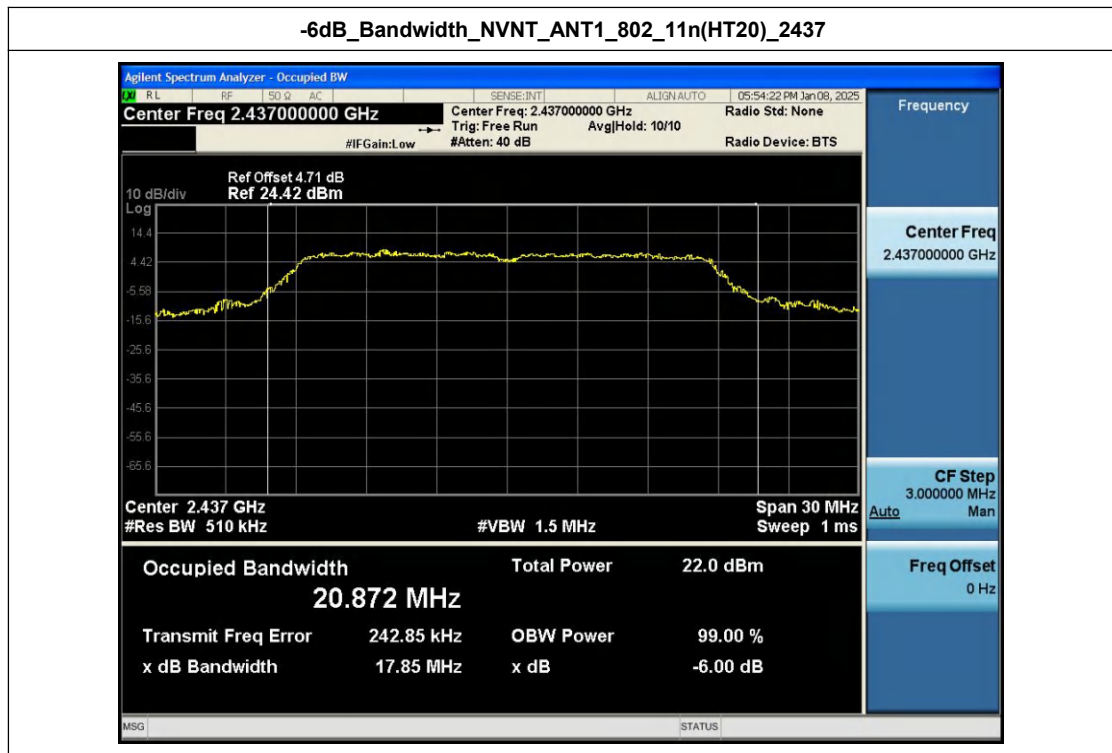
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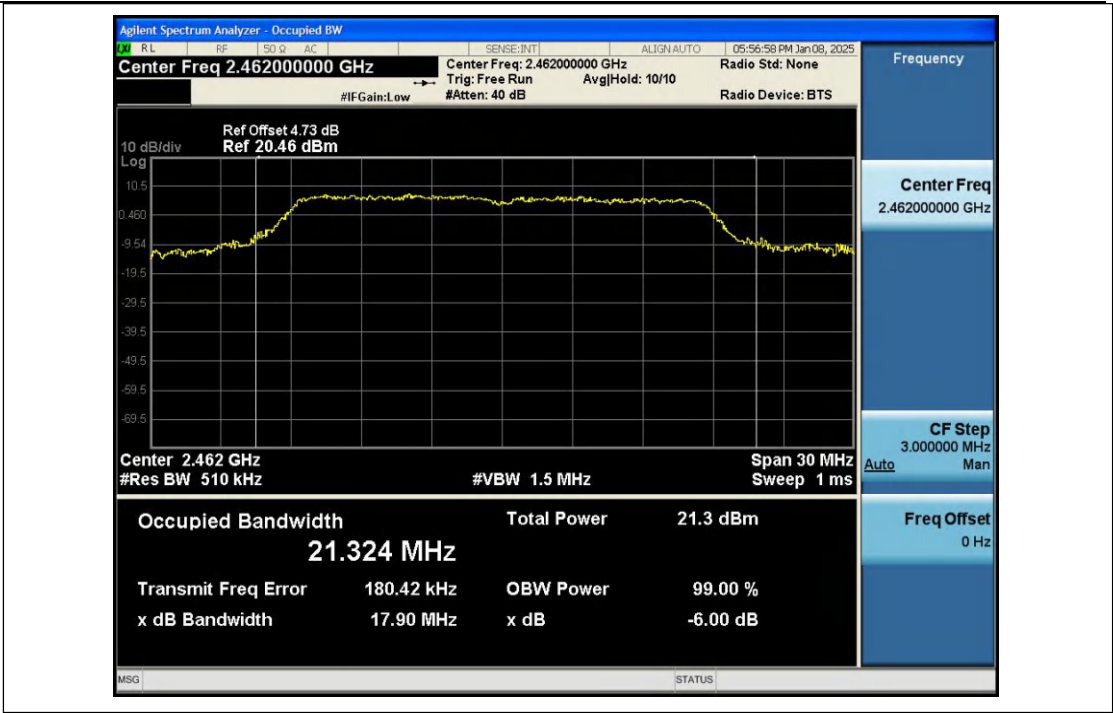
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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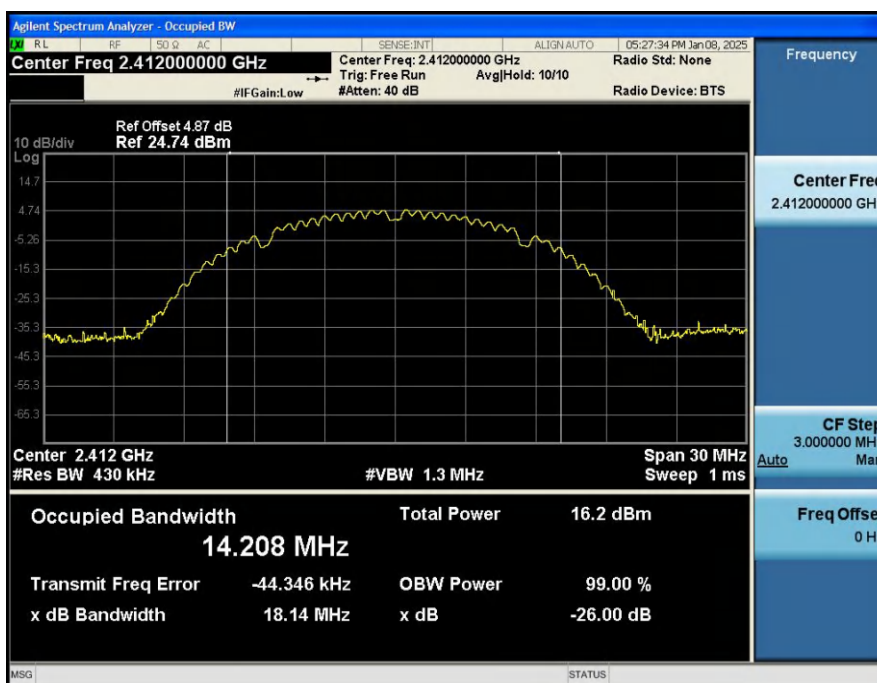
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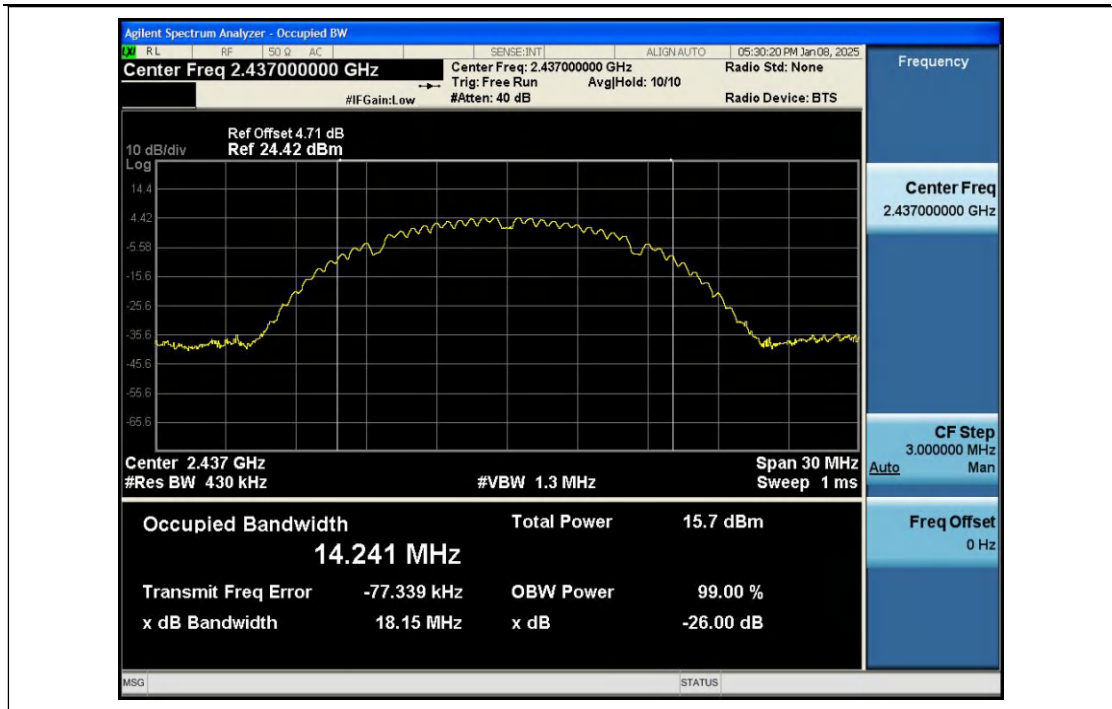
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	14.208
NVNT	ANT1	802.11b	2437.00	14.241
NVNT	ANT1	802.11b	2462.00	14.362
NVNT	ANT1	802.11g	2412.00	19.978
NVNT	ANT1	802.11g	2437.00	20.464
NVNT	ANT1	802.11g	2462.00	20.154
NVNT	ANT1	802.11n(HT20)	2412.00	20.884
NVNT	ANT1	802.11n(HT20)	2437.00	21.204
NVNT	ANT1	802.11n(HT20)	2462.00	21.614

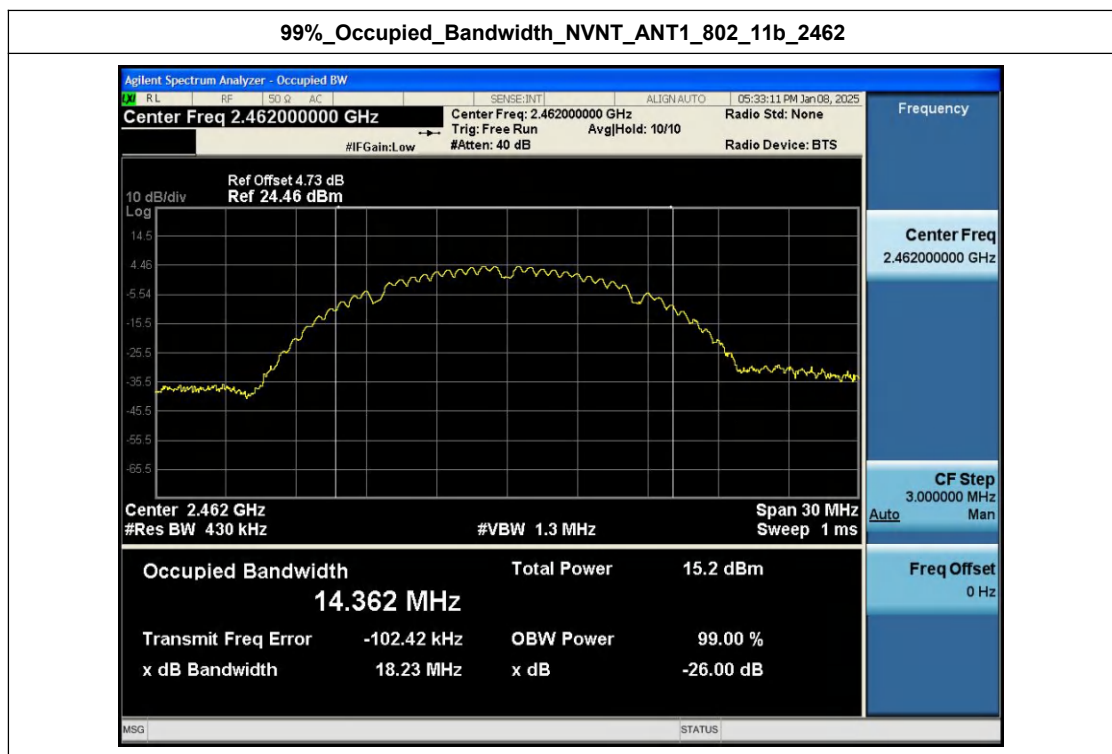
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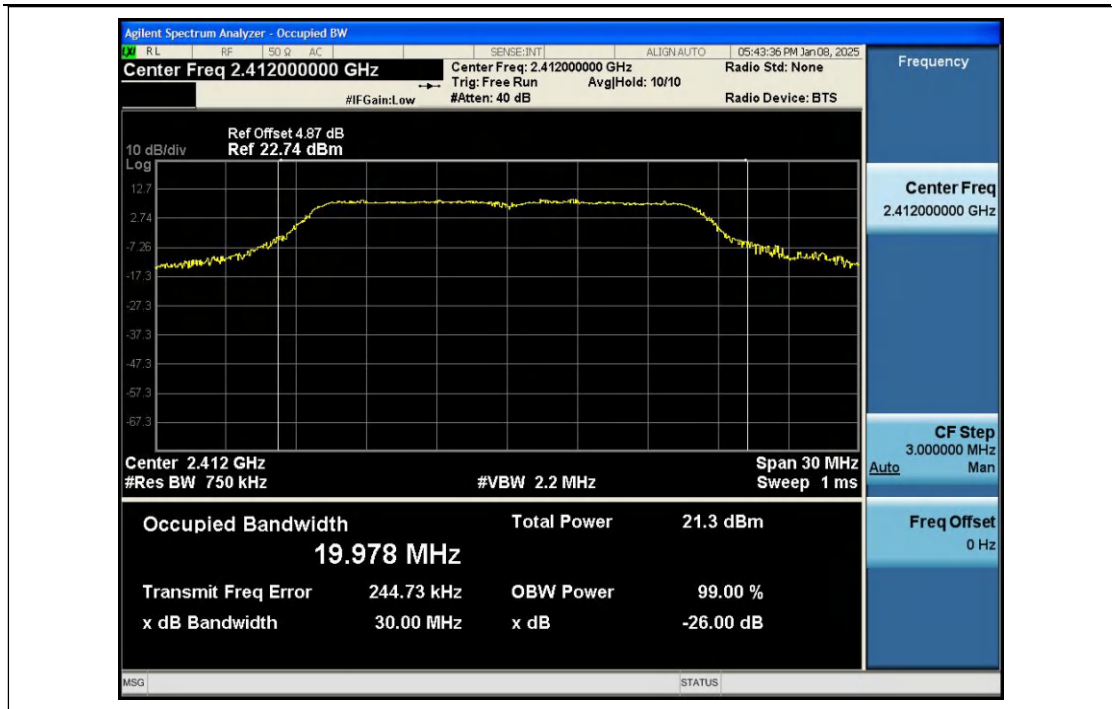
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



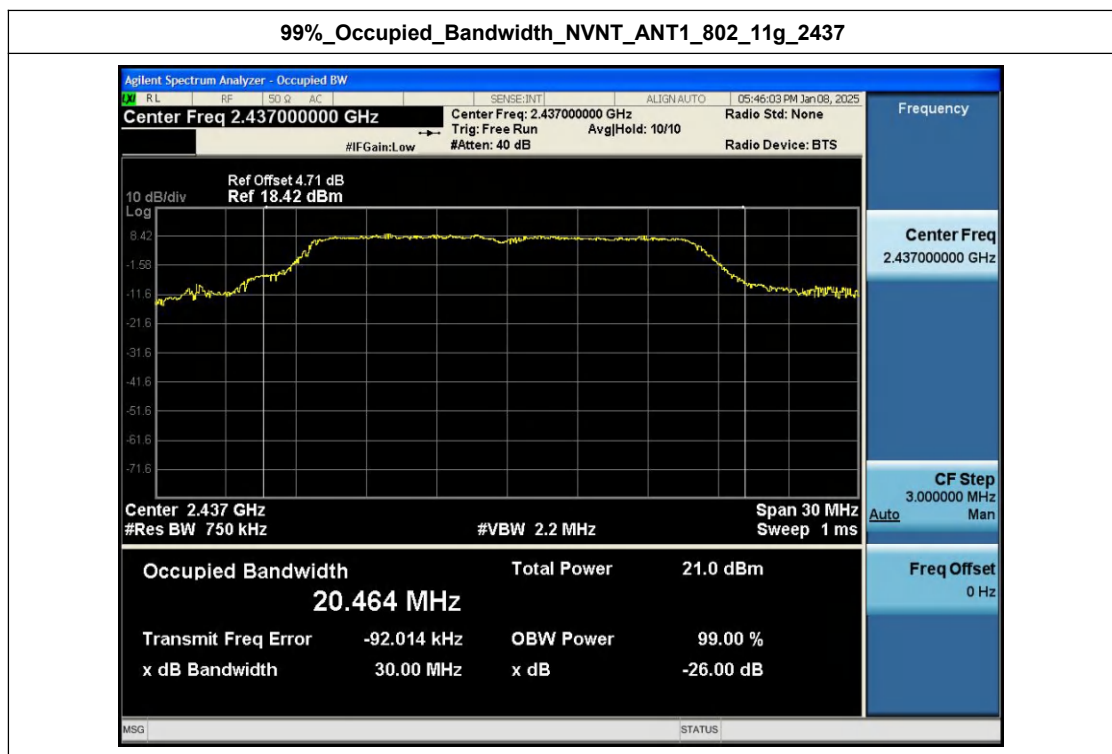
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



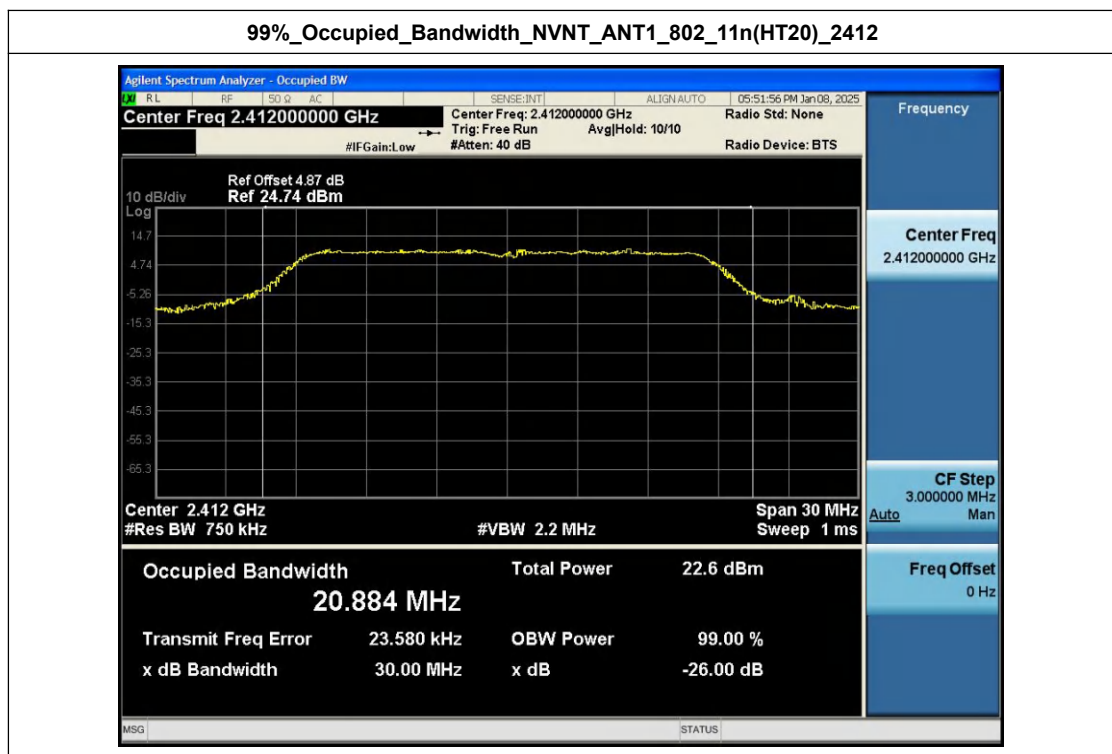
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



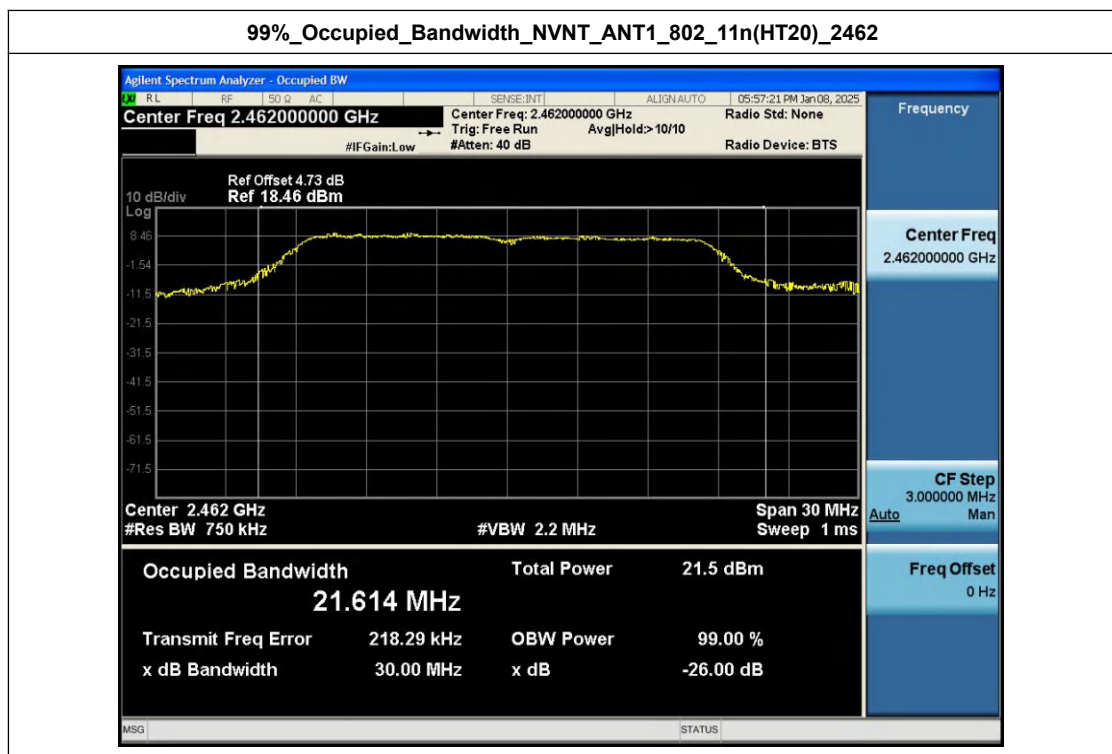
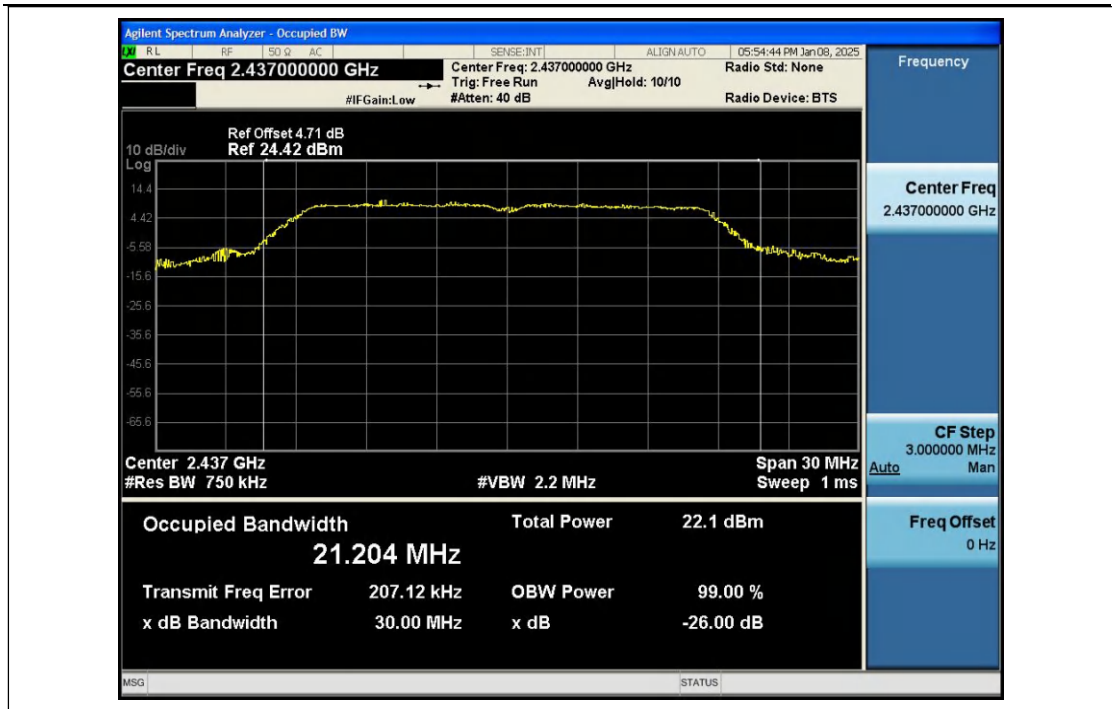
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



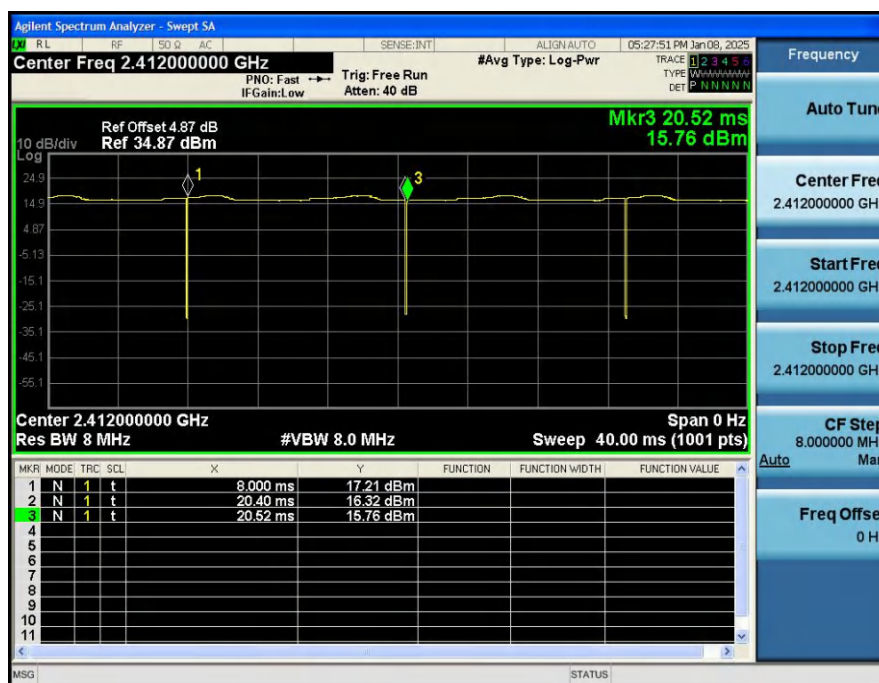
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



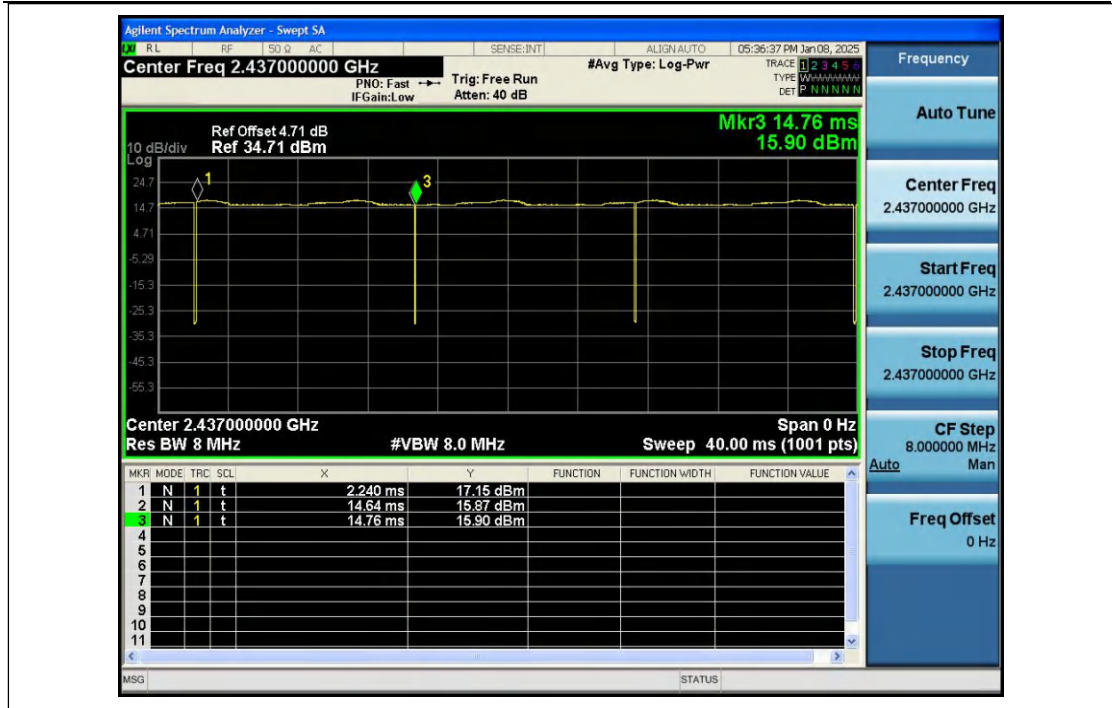
Appendix C: Duty Cycle

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	95.45	0.20
NVNT	ANT1	802.11g	2437.00	95.45	0.20
NVNT	ANT1	802.11g	2462.00	94.55	0.24
NVNT	ANT1	802.11n(HT20)	2412.00	95.10	0.22
NVNT	ANT1	802.11n(HT20)	2437.00	94.17	0.26
NVNT	ANT1	802.11n(HT20)	2462.00	95.10	0.22

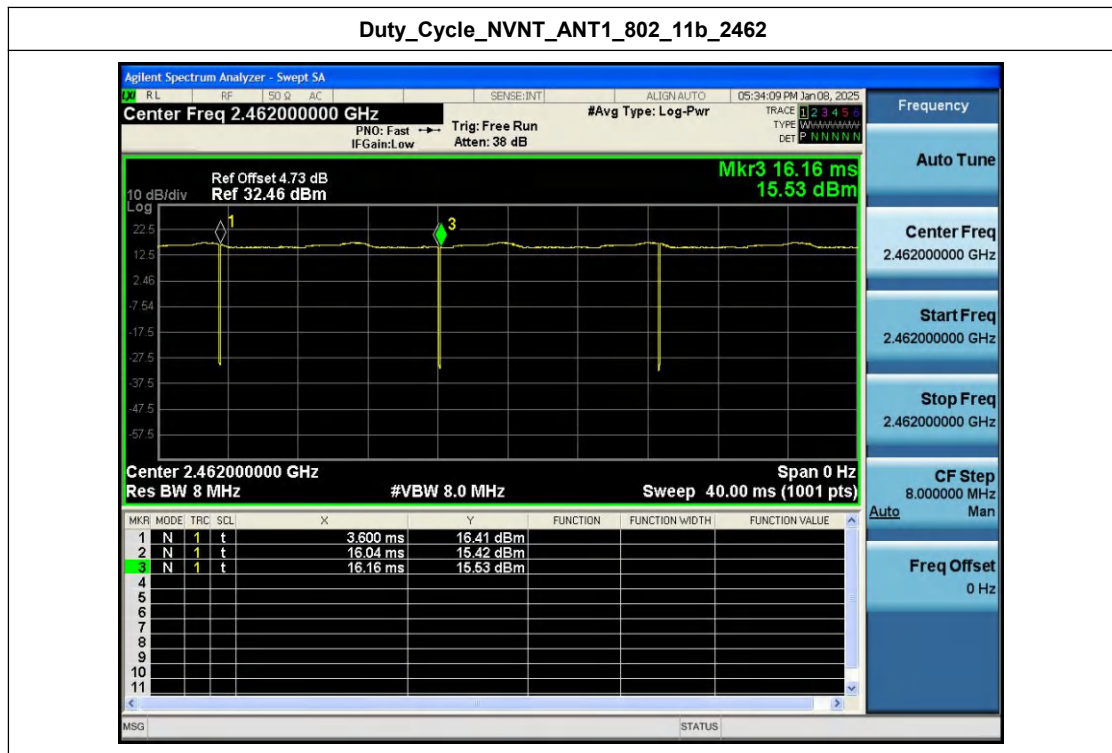
Duty_Cycle_NVNT_ANT1_802_11b_2412



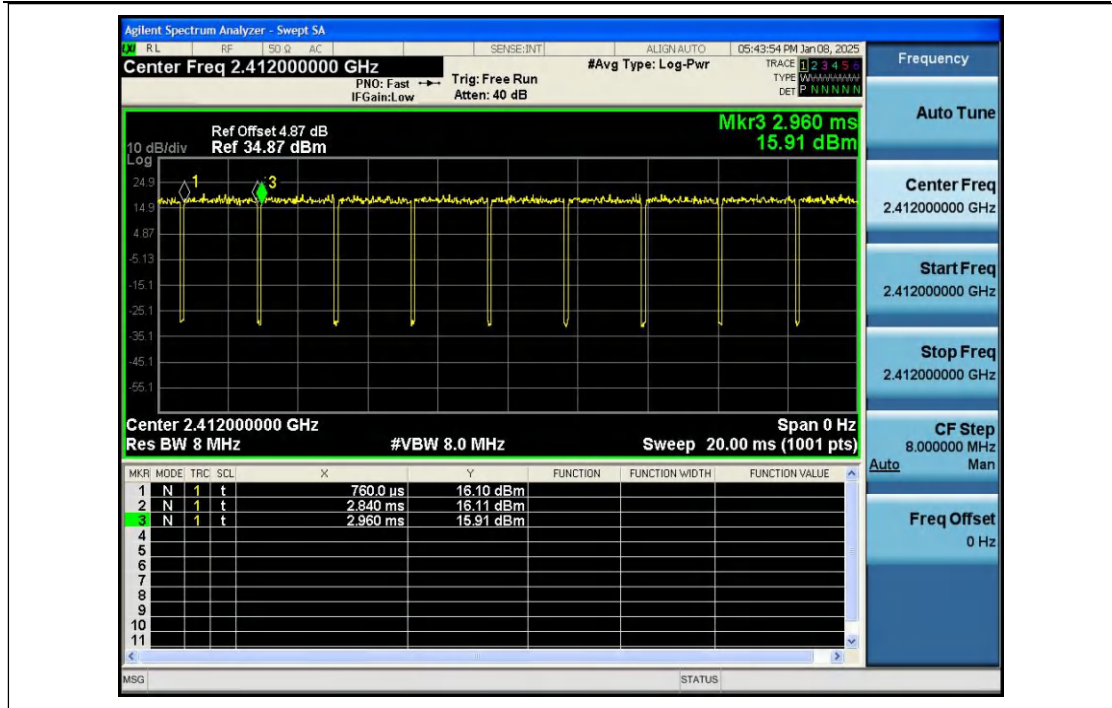
Duty_Cycle_NVNT_ANT1_802_11b_2437



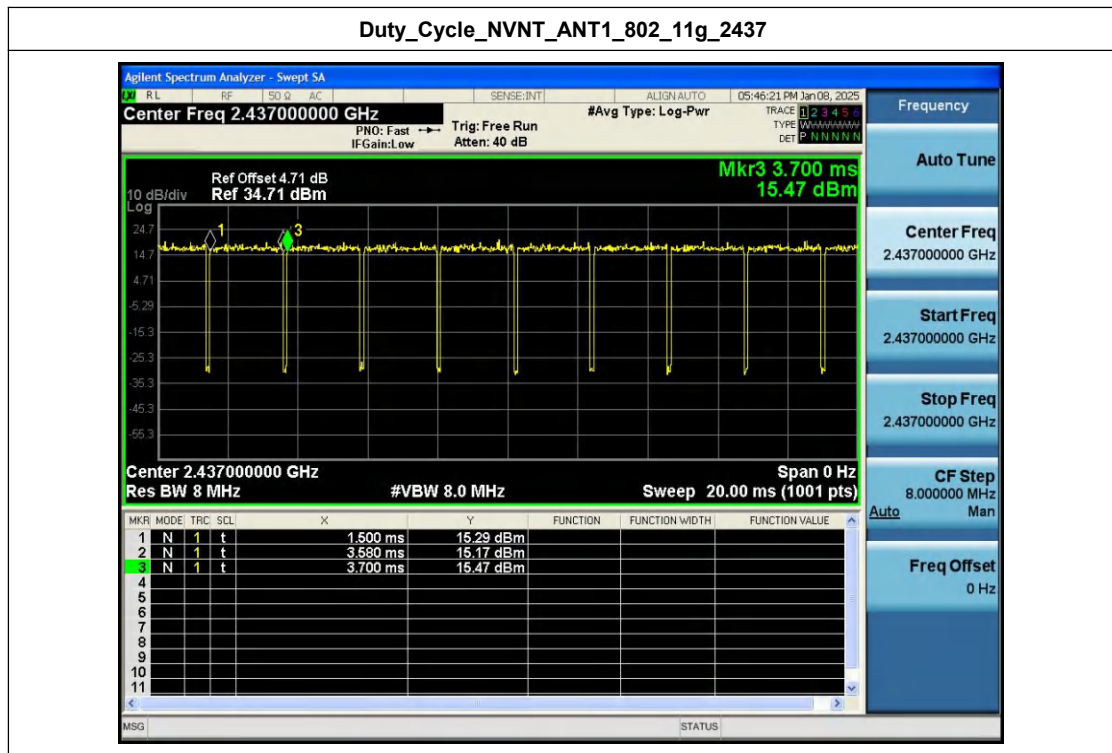
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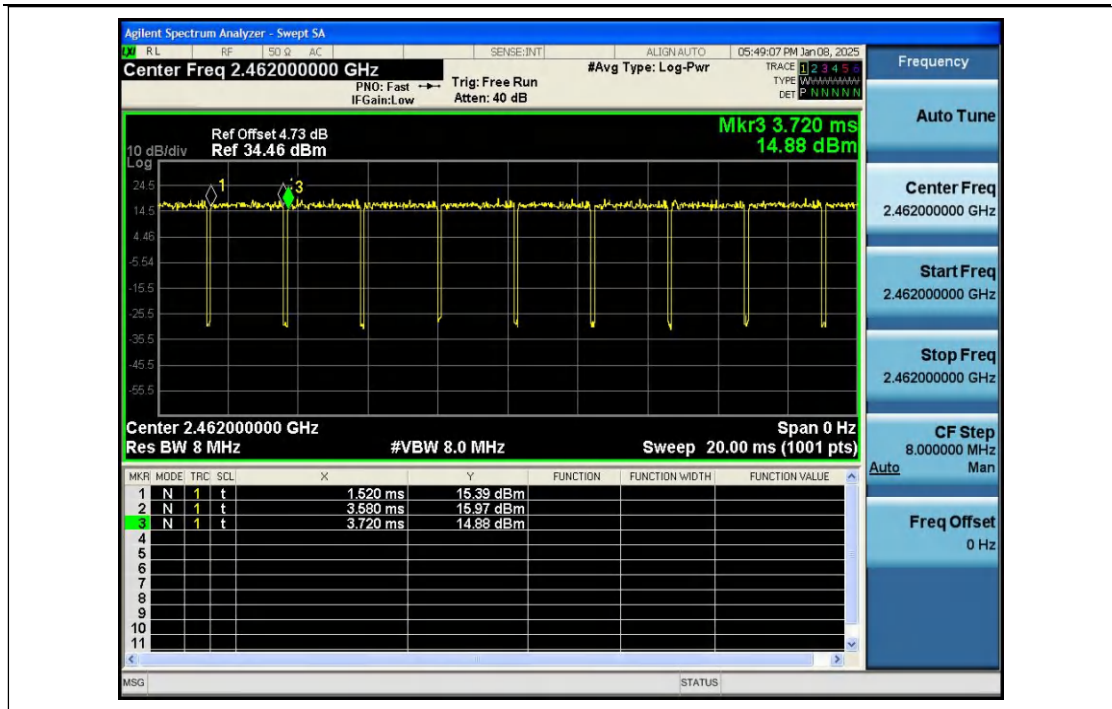
Duty_Cycle_NVNT_ANT1_802_11g_2412



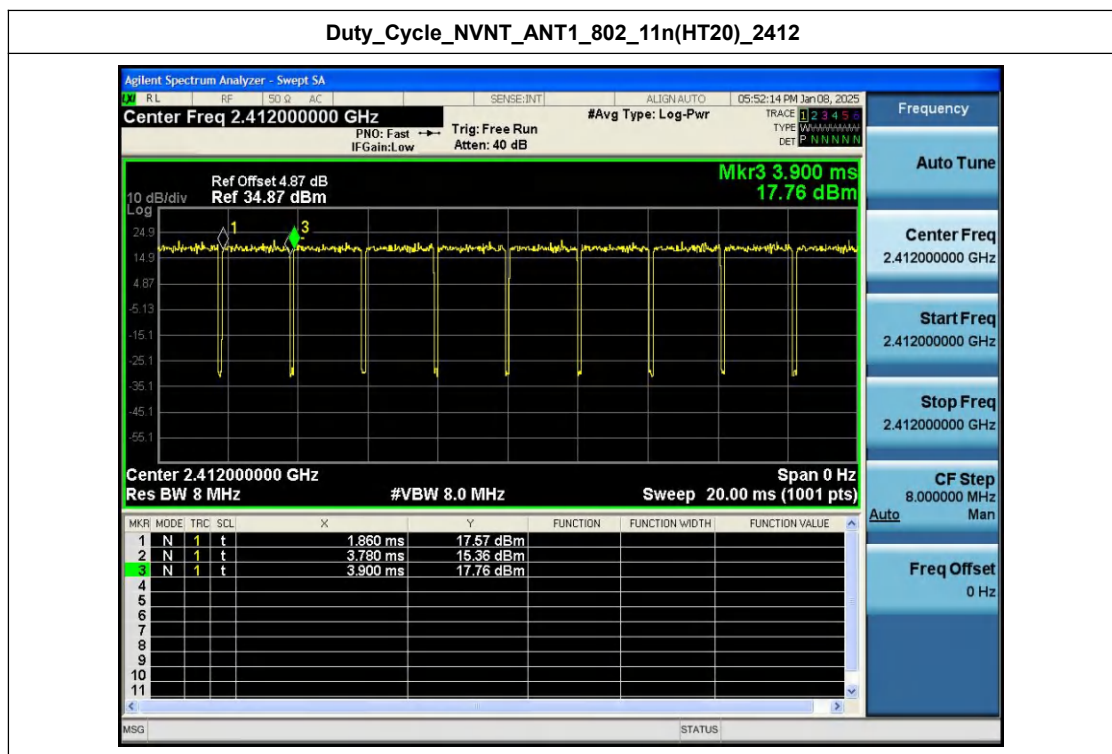
Duty_Cycle_NVNT_ANT1_802_11g_2437



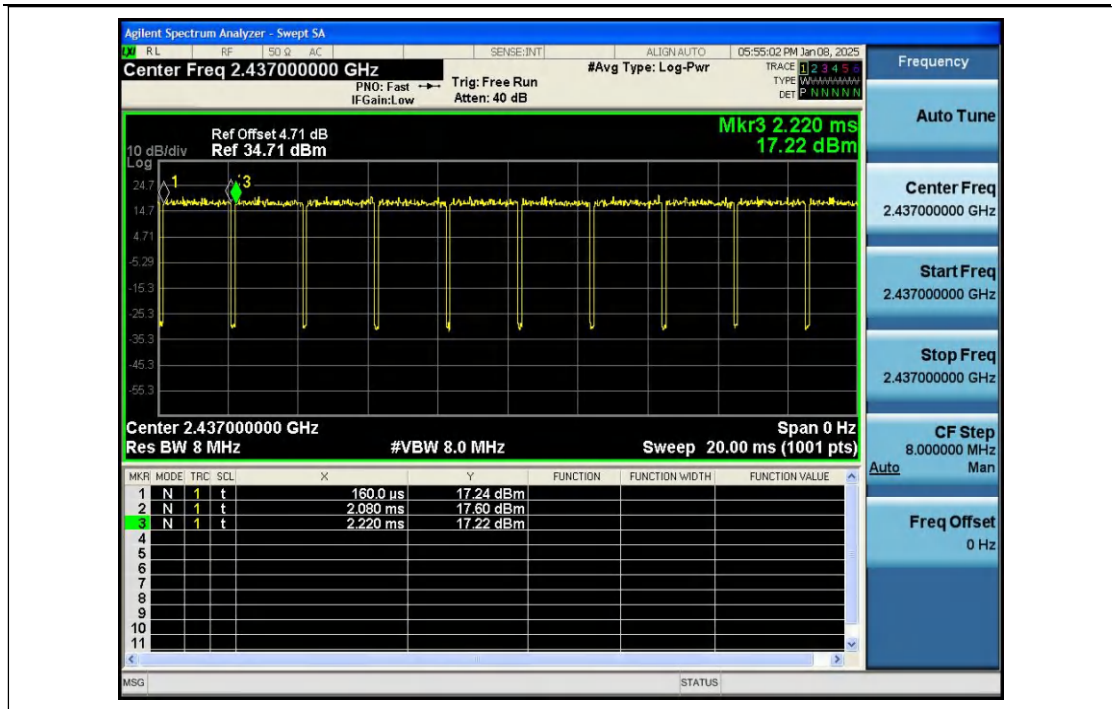
Duty_Cycle_NVNT_ANT1_802_11g_2462



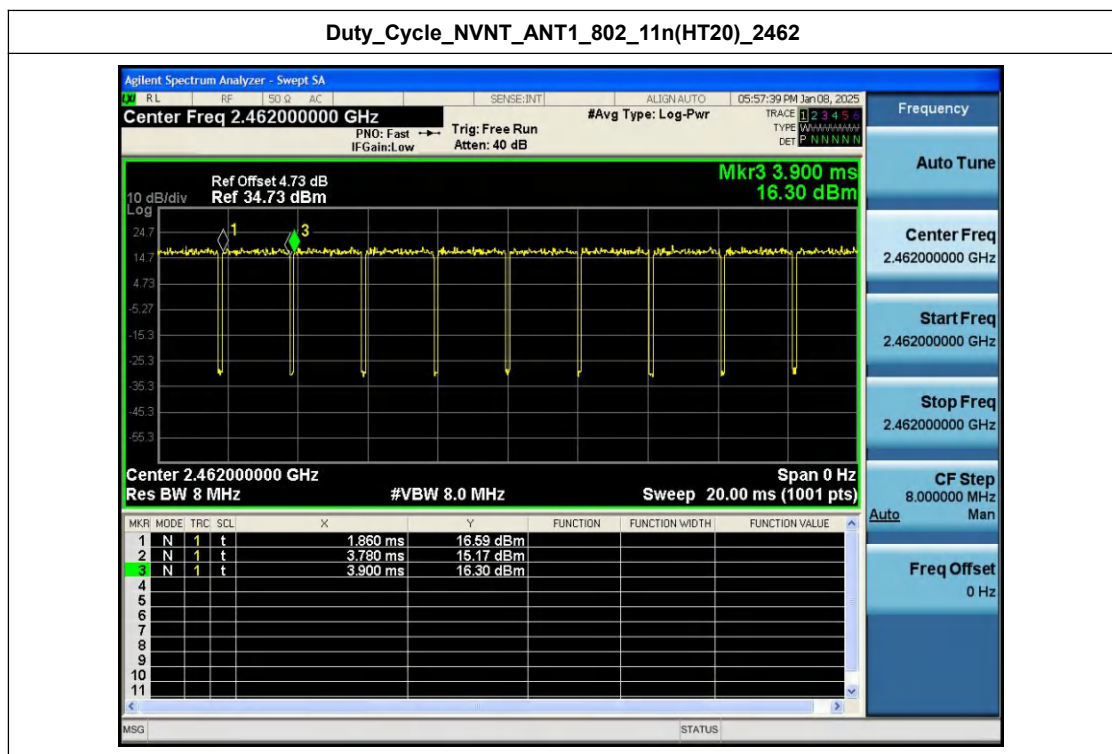
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



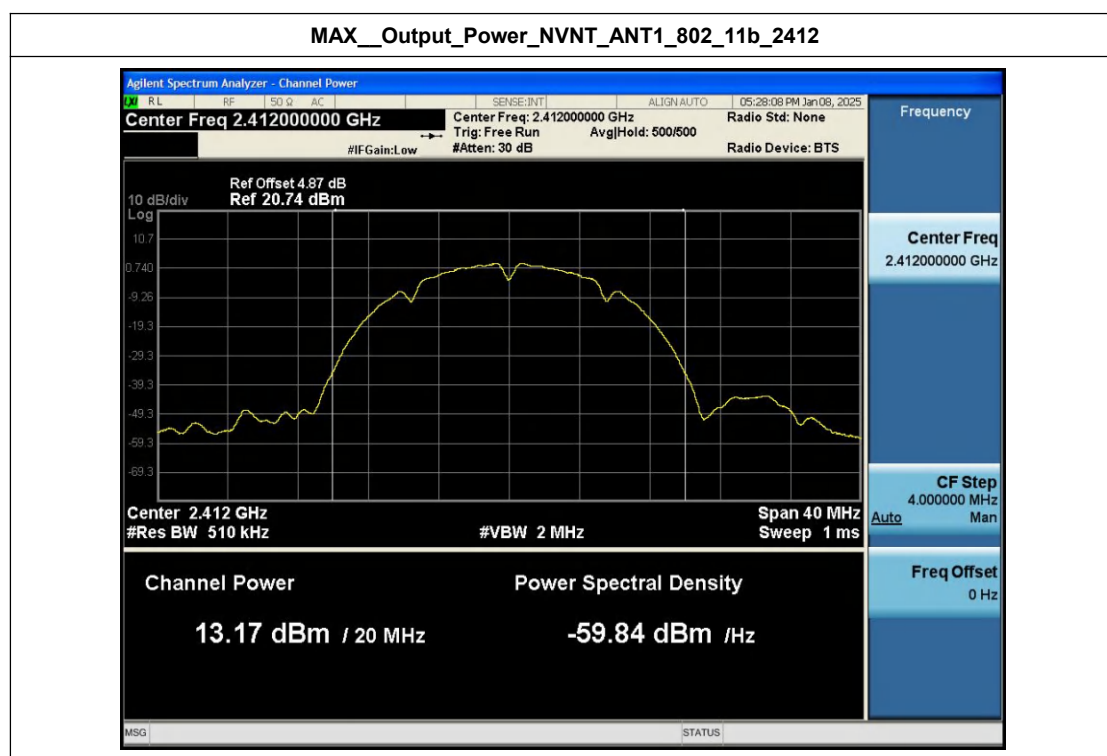
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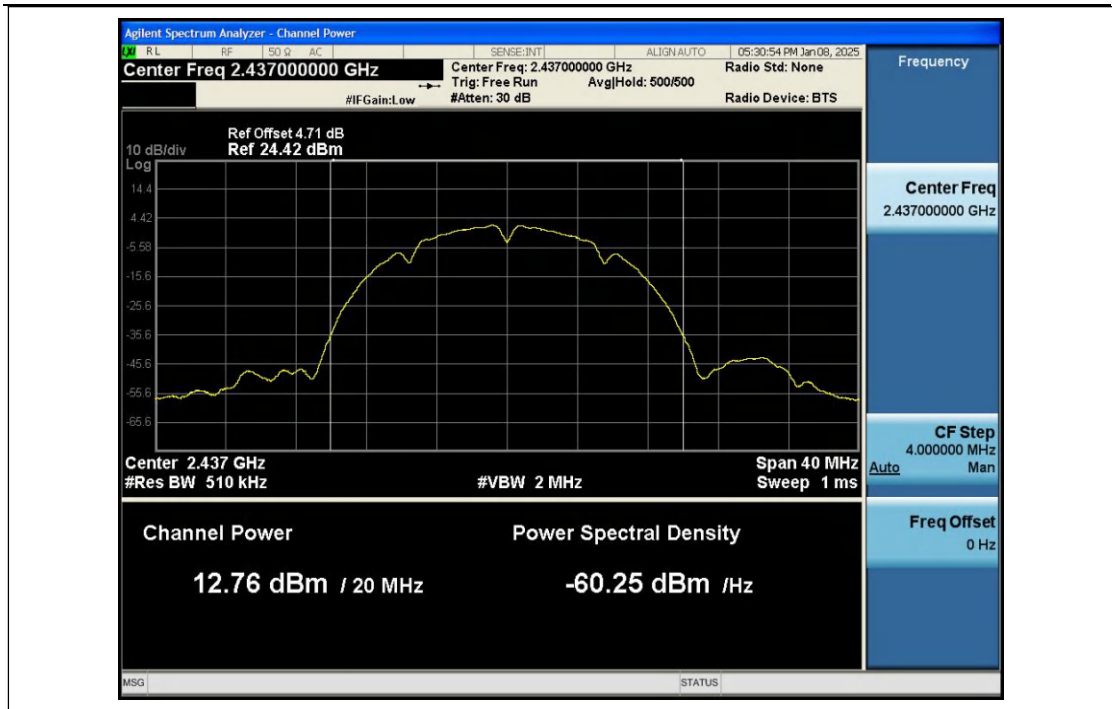
Appendix D: MAX. Output Power

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	13.17	0.00	13.17	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	12.76	0.00	12.76	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	12.20	0.00	12.20	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.97	0.20	14.17	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.50	0.20	13.70	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.96	0.24	13.20	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	15.12	0.22	15.34	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	14.62	0.26	14.88	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	14.04	0.22	14.26	30	Pass

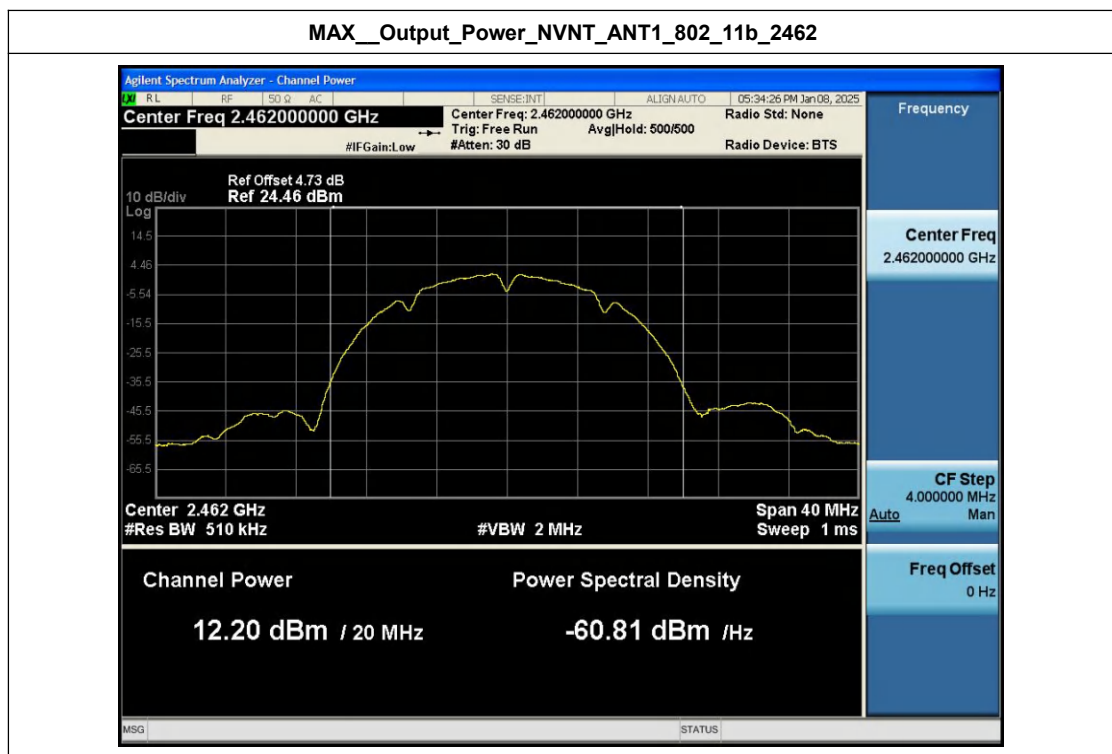
Note: The cable loss are compensated in the graph.



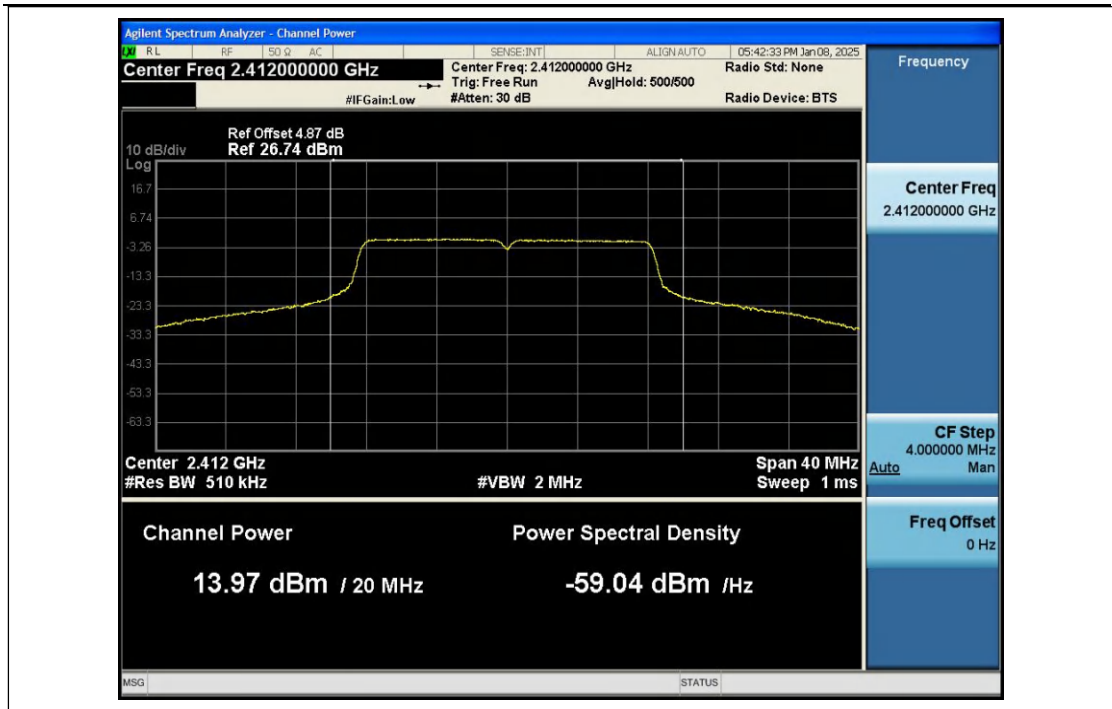
MAX__Output_Power_NVNT_ANT1_802_11b_2437



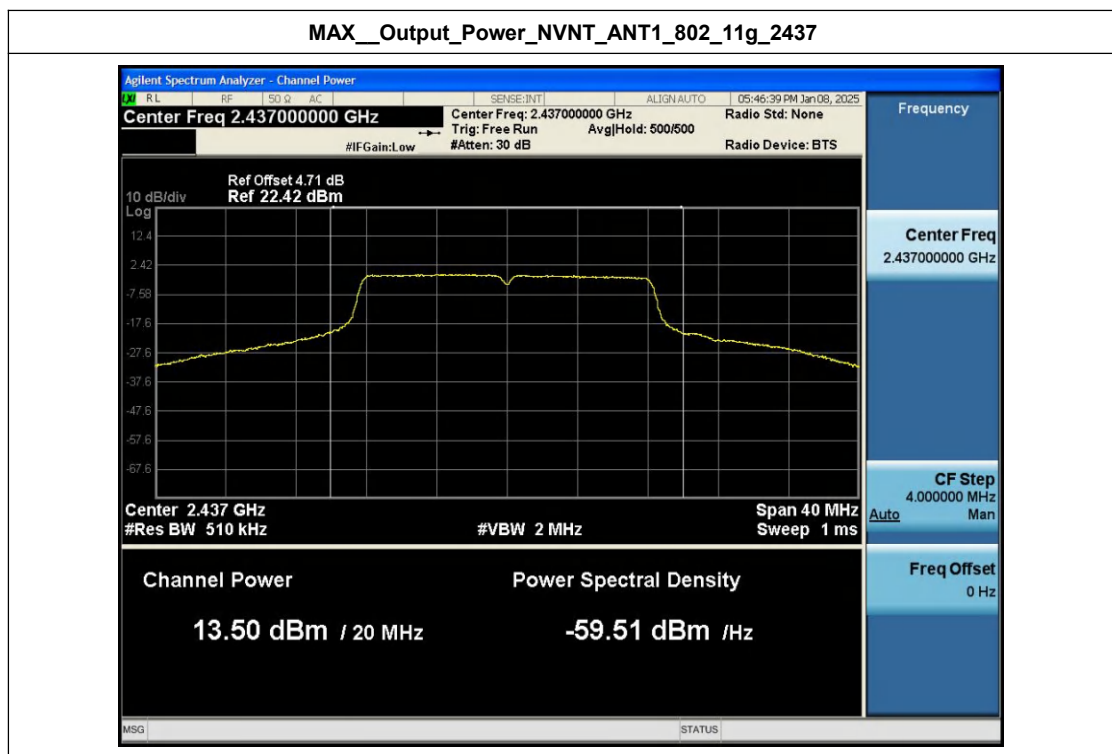
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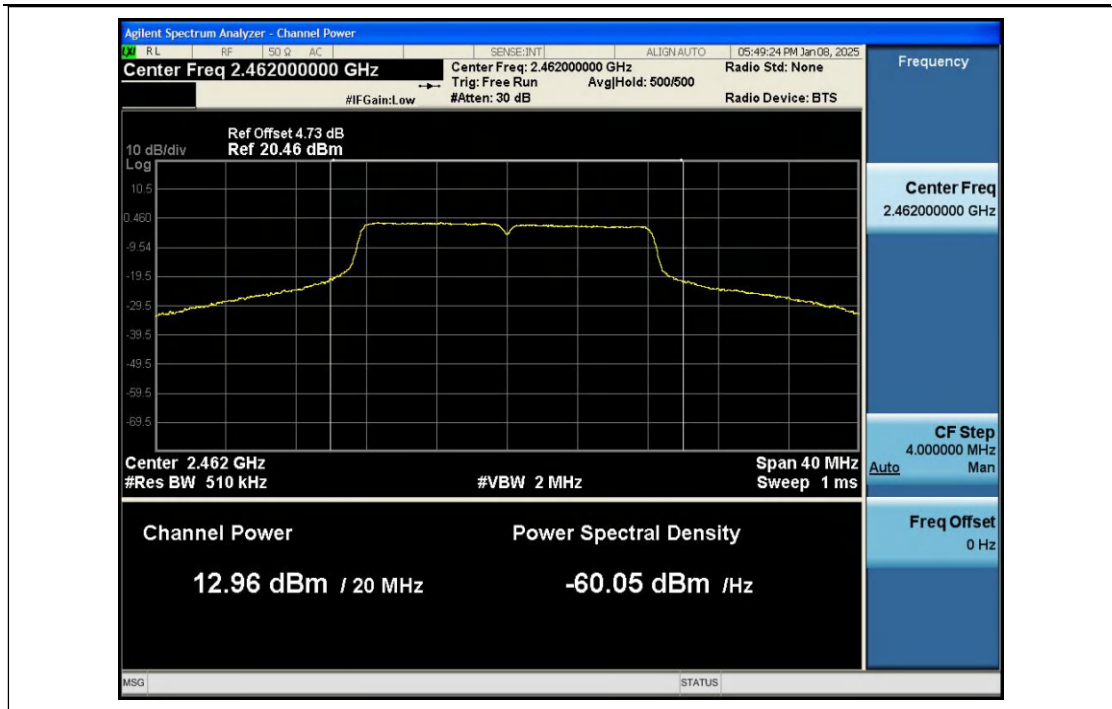
MAX__Output_Power_NVNT_ANT1_802_11g_2412



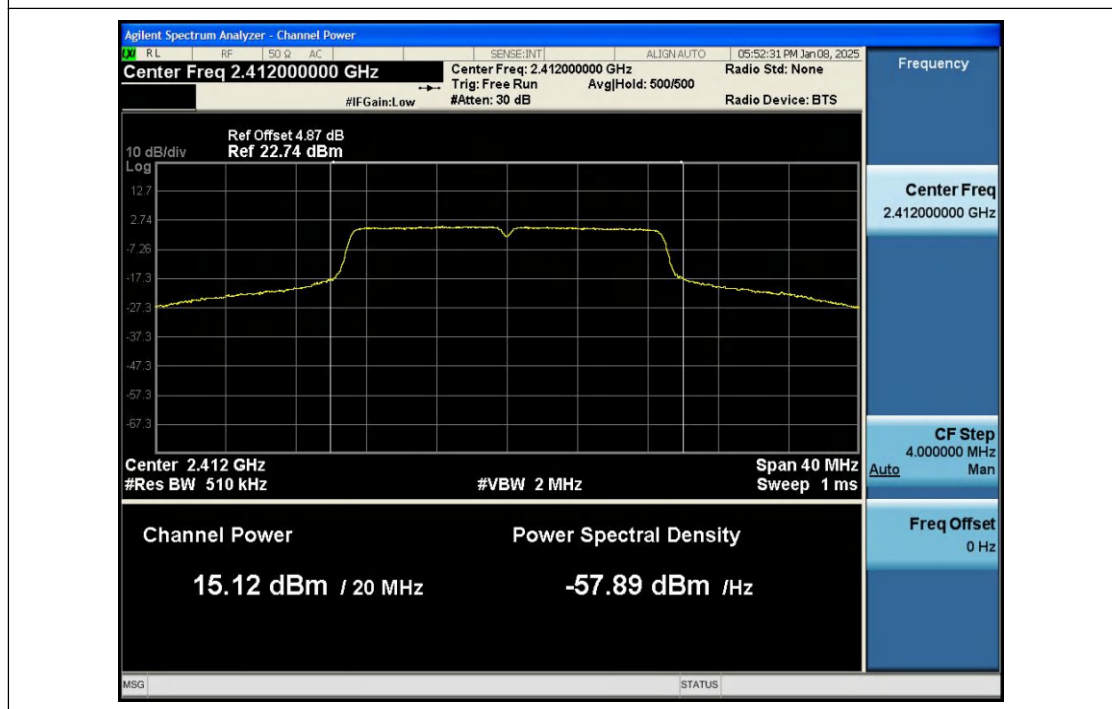
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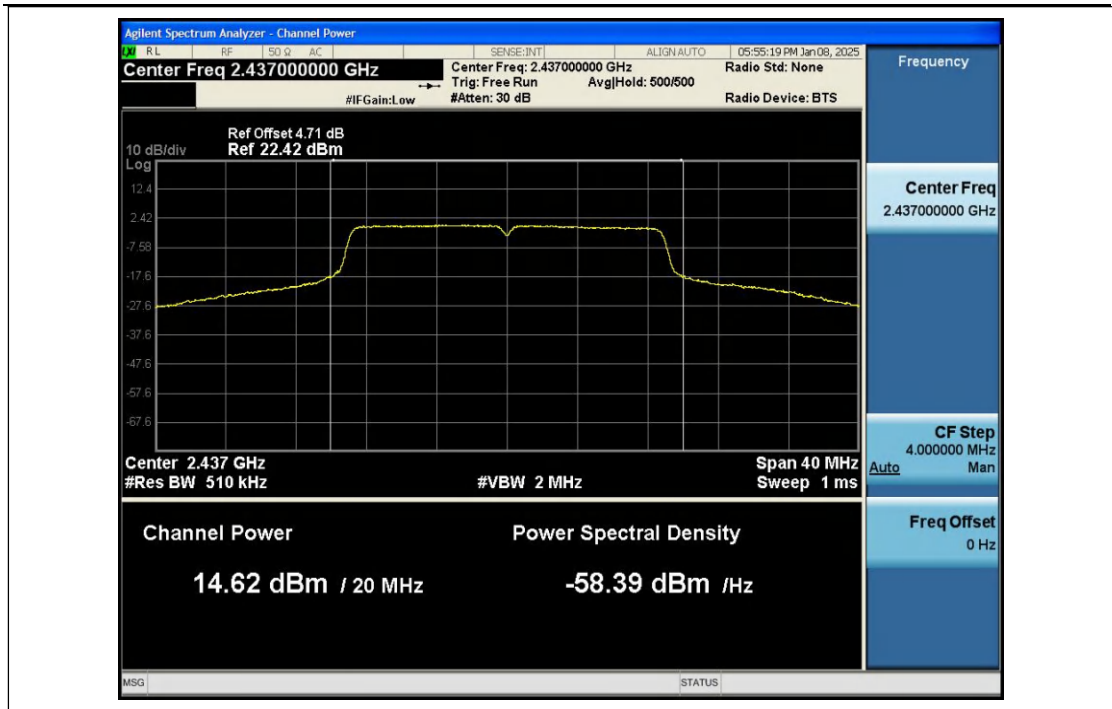
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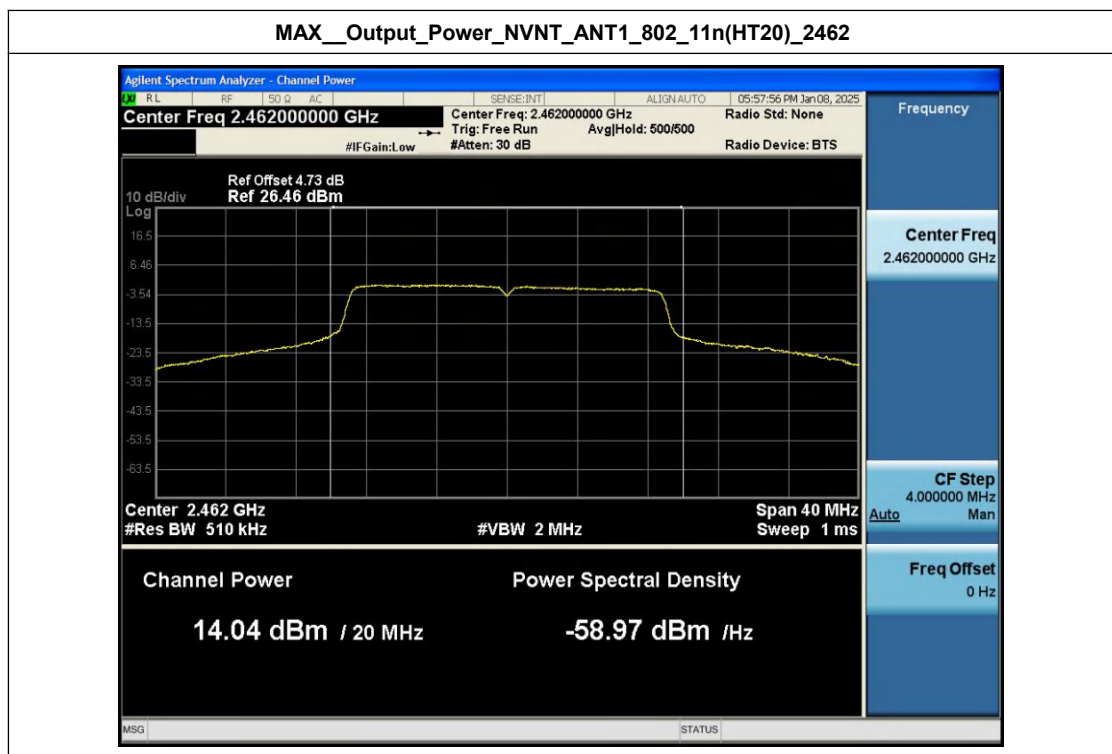
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MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



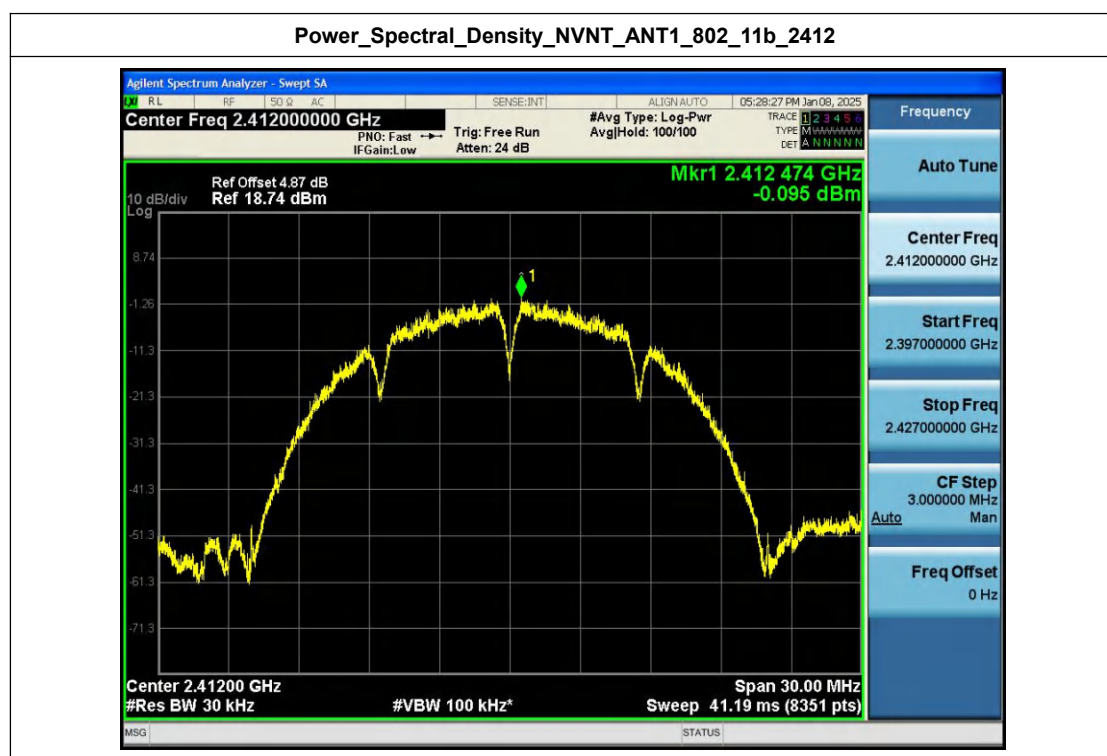
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



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	-0.10	0.00	-10.00	-10.10	8	Pass
NVNT	ANT1	802.11b	2437.00	-0.65	0.00	-10.00	-10.65	8	Pass
NVNT	ANT1	802.11b	2462.00	0.47	0.00	-10.00	-9.53	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.47	0.20	-10.00	-11.27	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.87	0.20	-10.00	-11.67	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.63	0.24	-10.00	-12.39	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-0.97	0.22	-10.00	-10.75	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.47	0.26	-10.00	-11.21	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.77	0.22	-10.00	-11.55	8	Pass

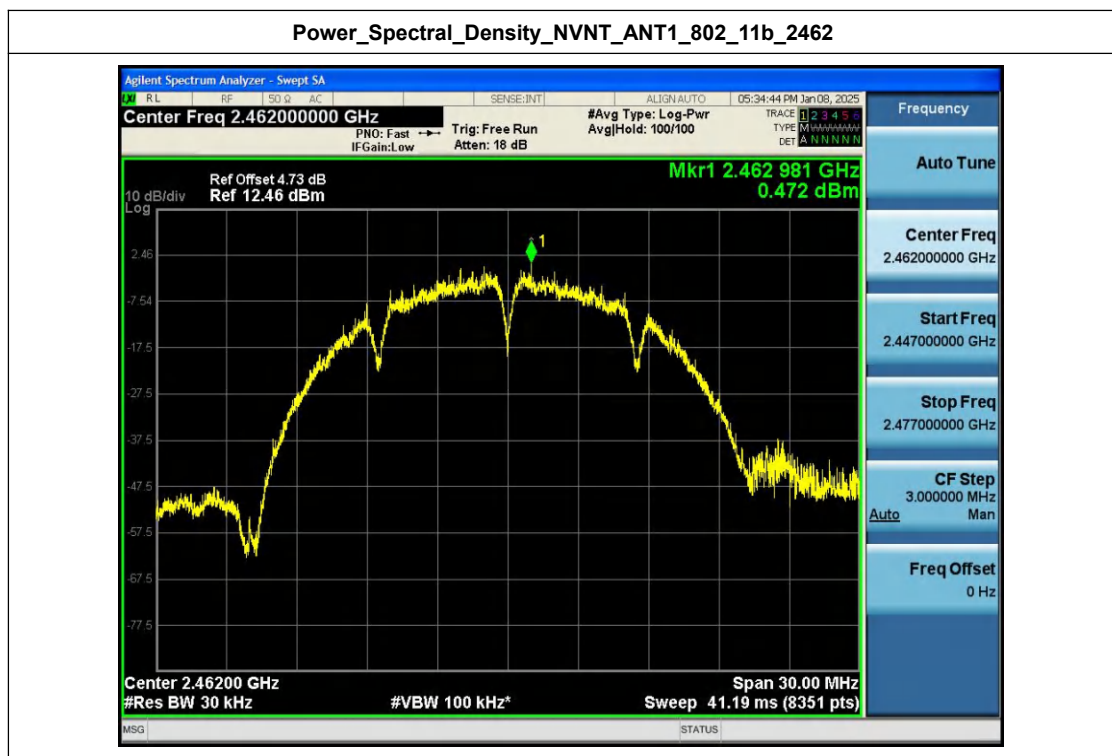
Note: The cable loss are compensated in the graph.



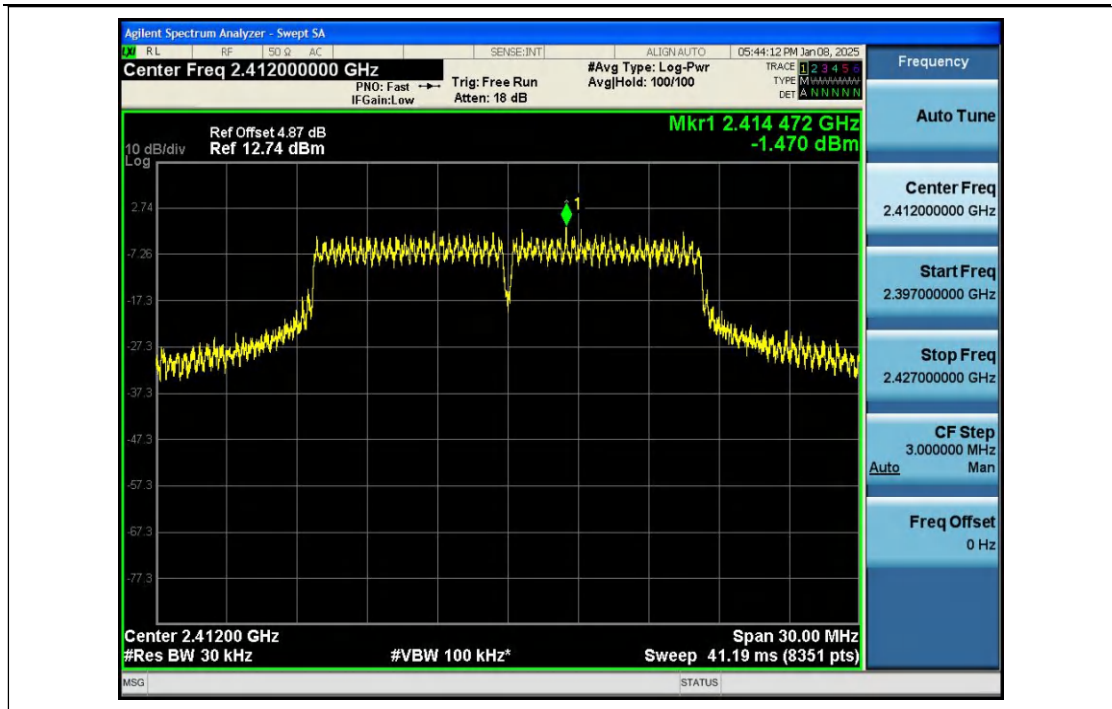
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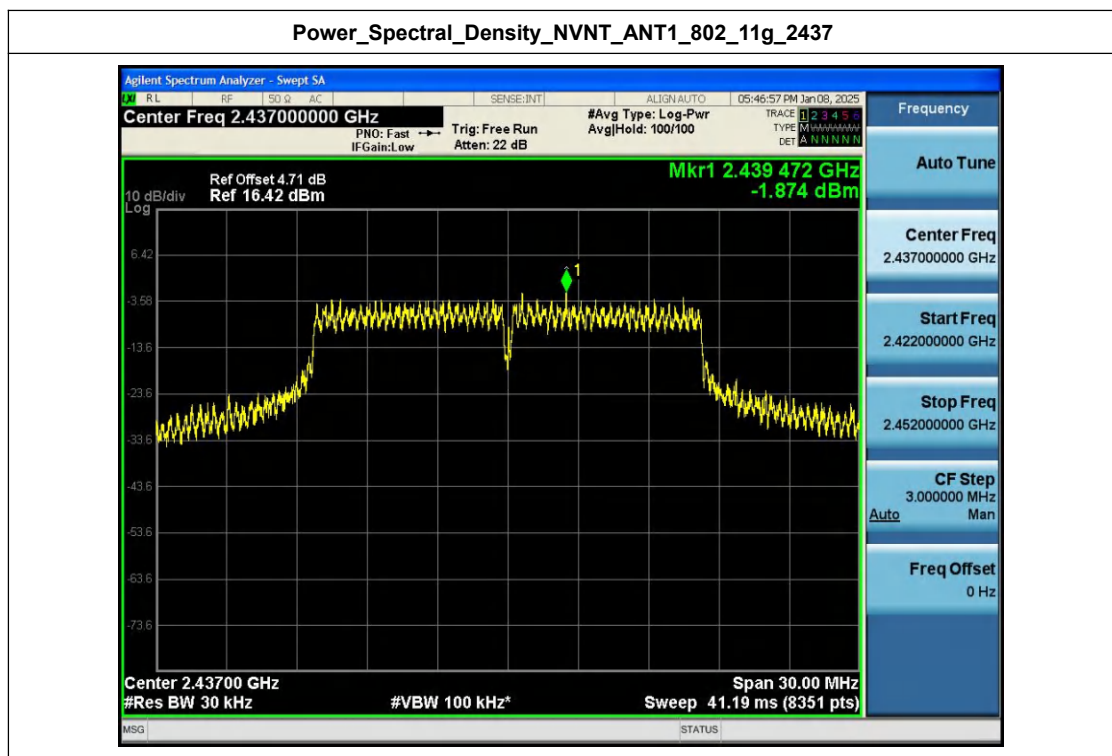
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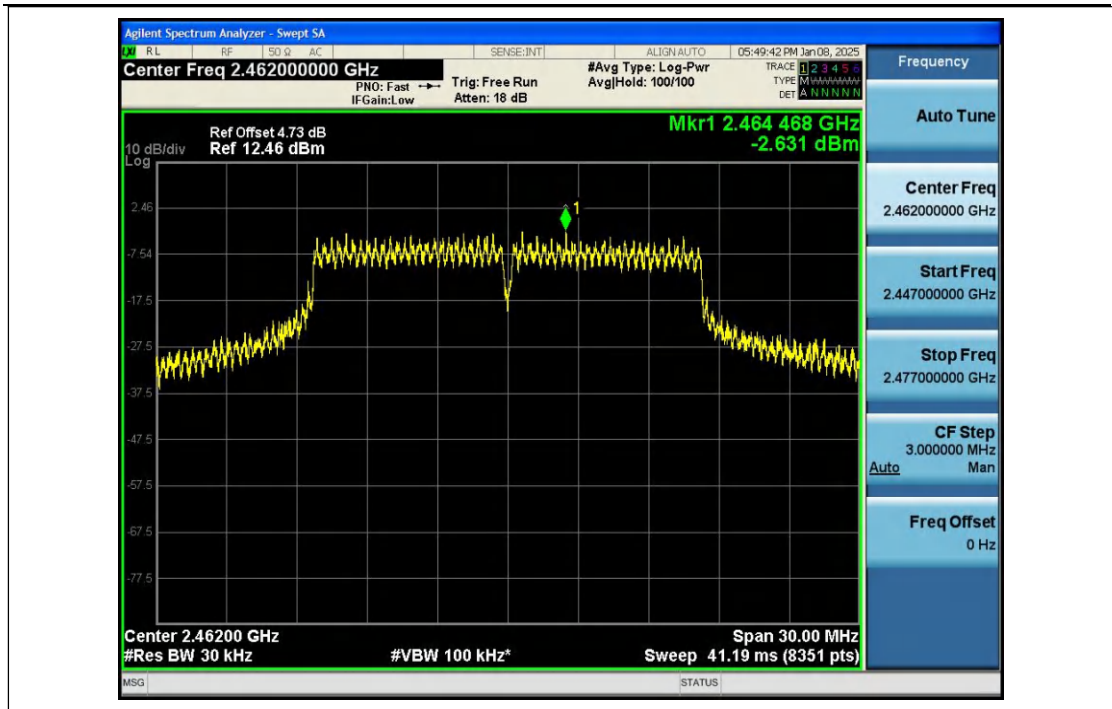
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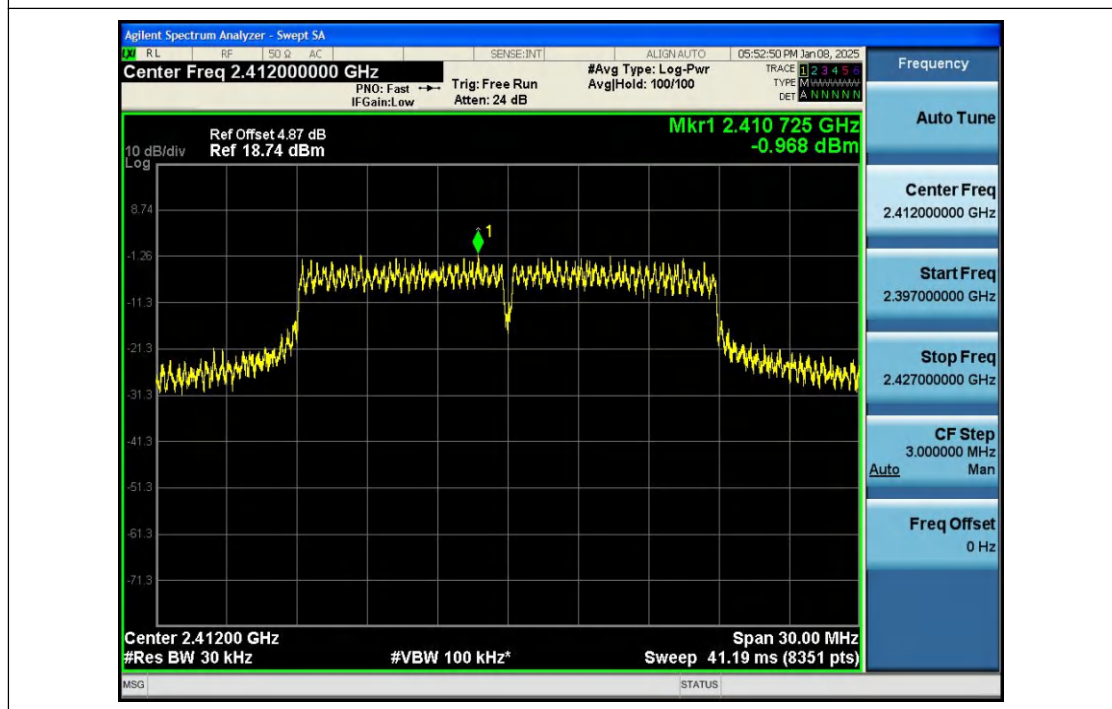
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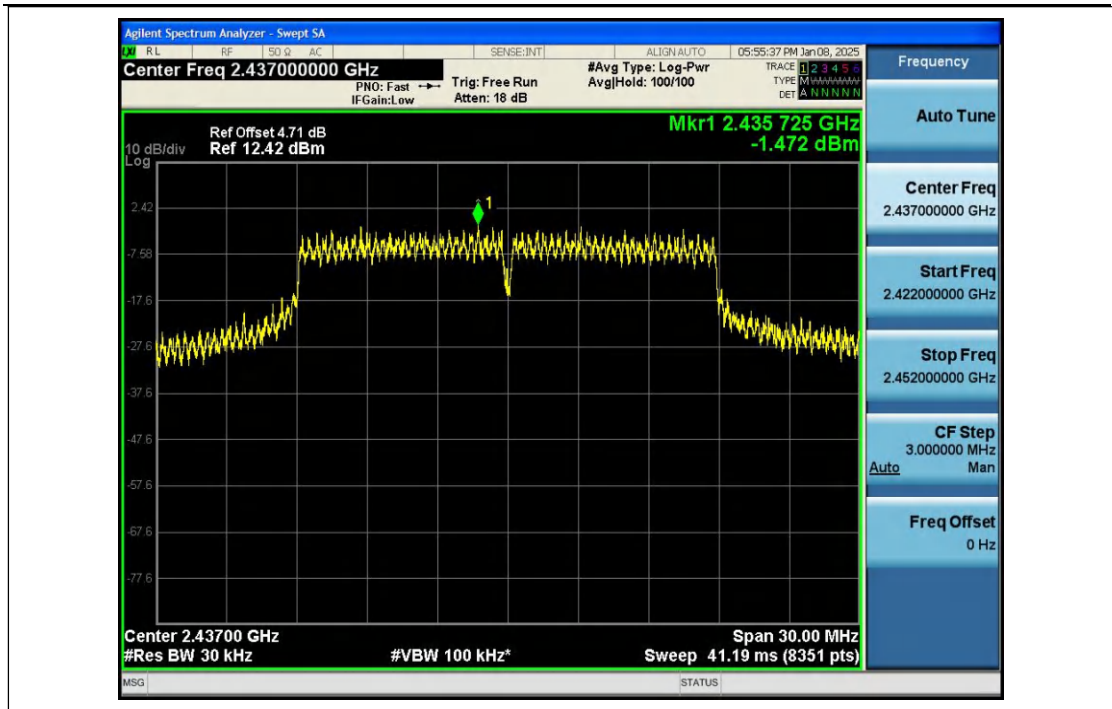
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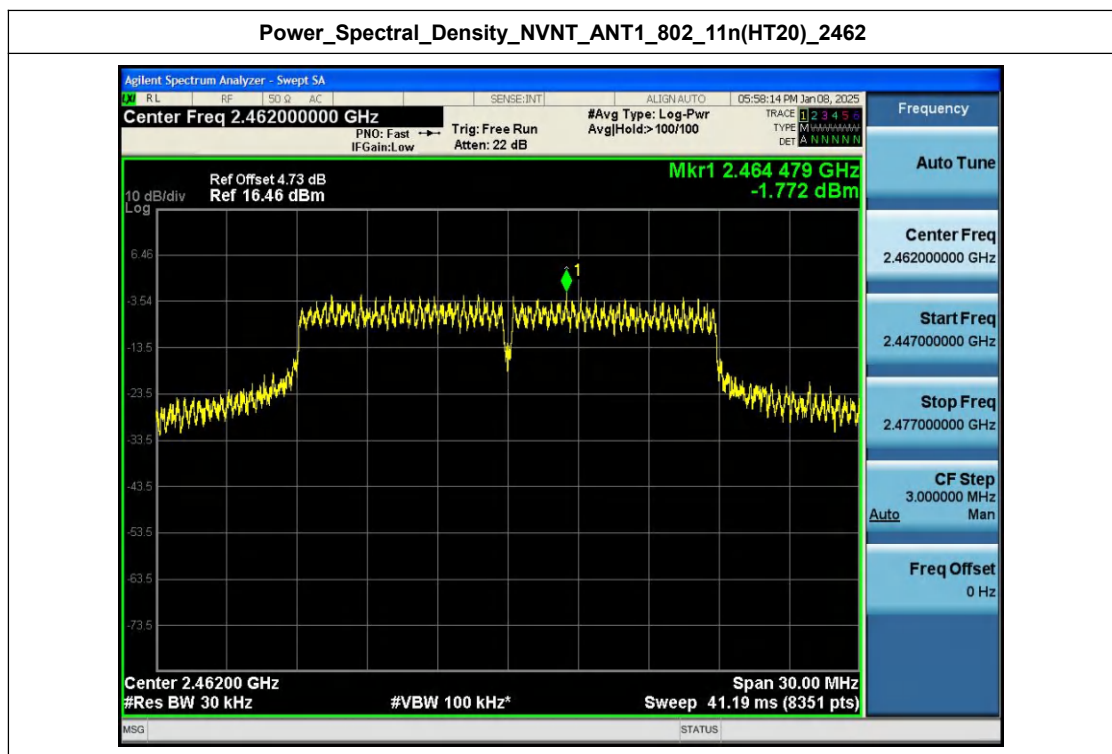
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



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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	2397.024	5.065	-45.097	-24.935	Pass
NVNT	ANT1	802.11b	2462.00	2486.512	3.785	-53.873	-26.215	Pass
NVNT	ANT1	802.11g	2412.00	2398.816	1.653	-32.071	-28.347	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	2.313	-30.551	-27.687	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.592	2.351	-34.495	-27.649	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	1.735	-29.789	-28.265	Pass

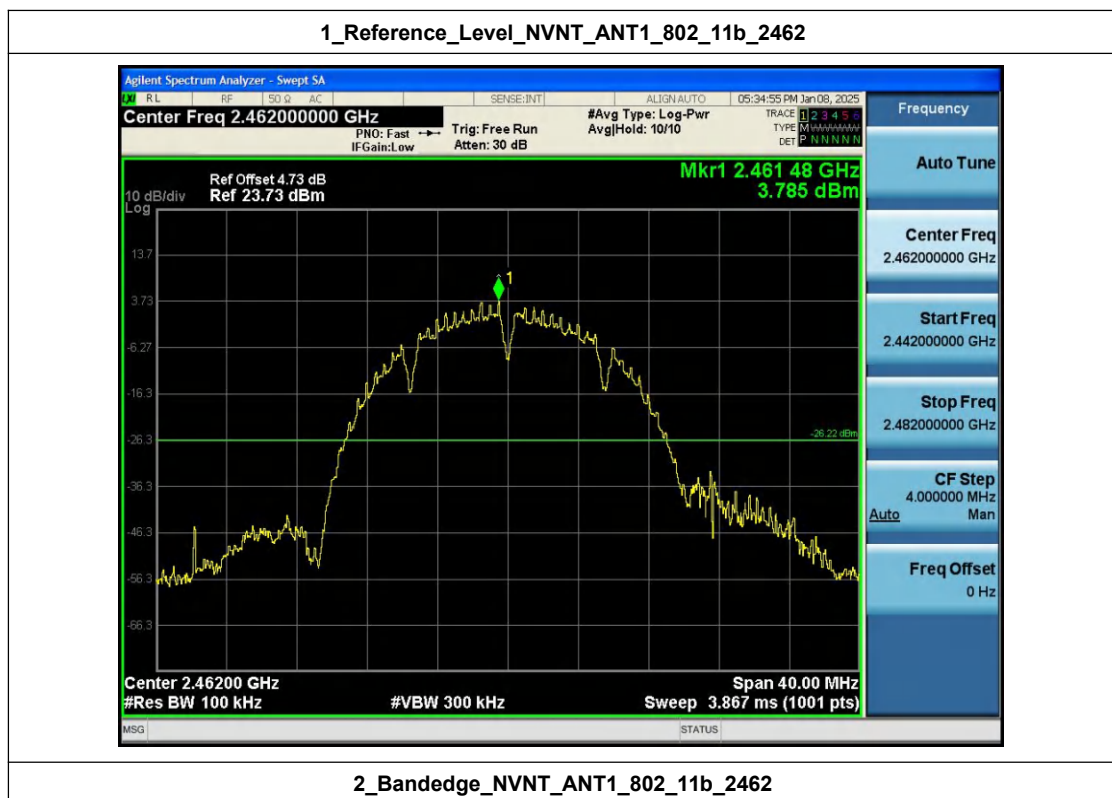
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2_Bandedge_NVNT_ANT1_802_11b_2412



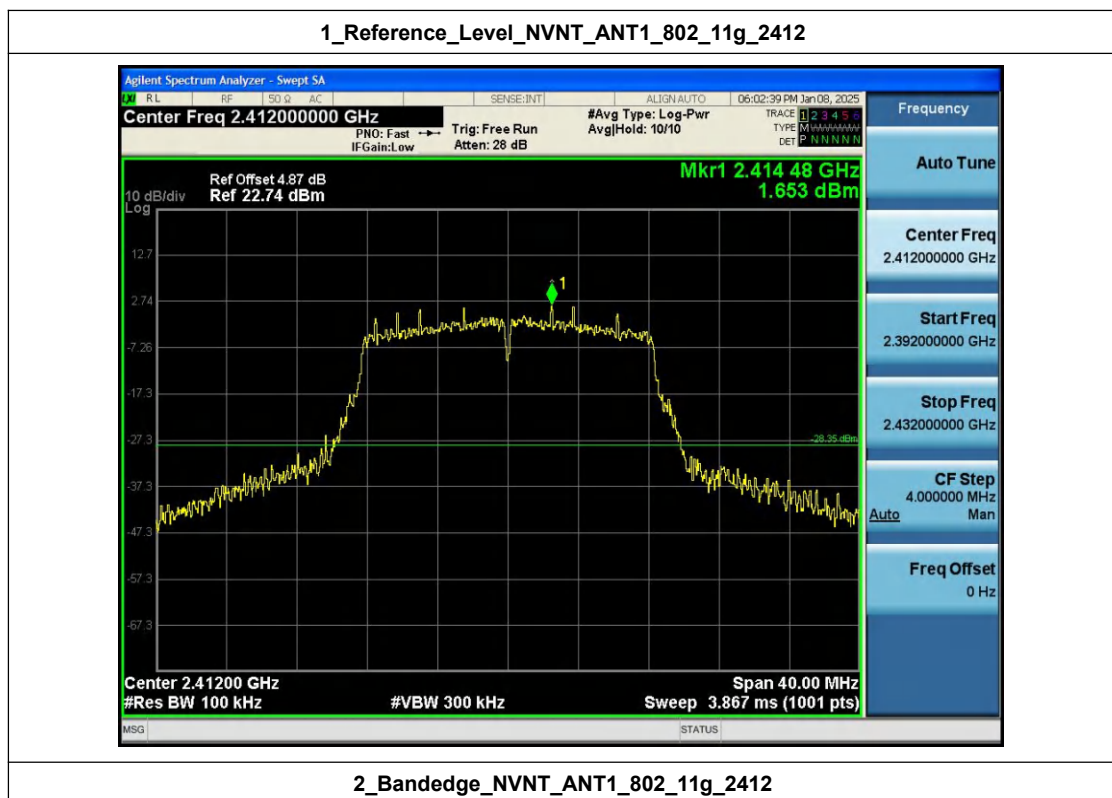
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2_Bandedge_NVNT_ANT1_802_11b_2462



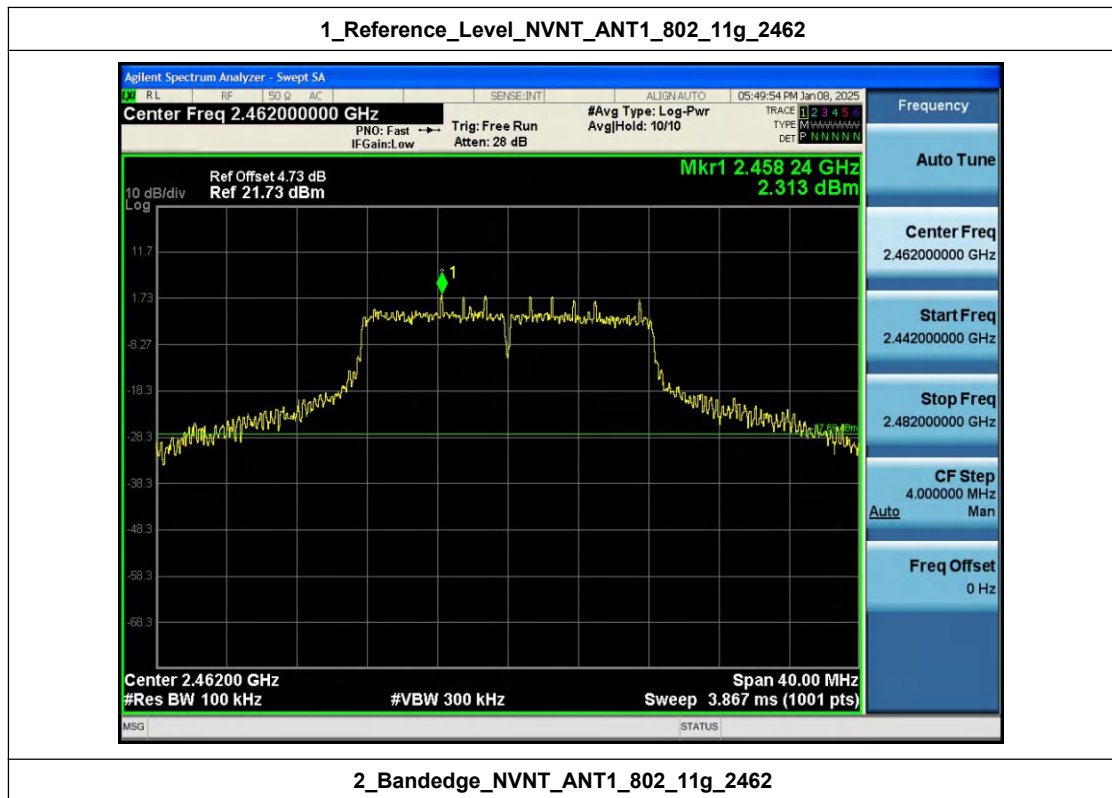
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2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462

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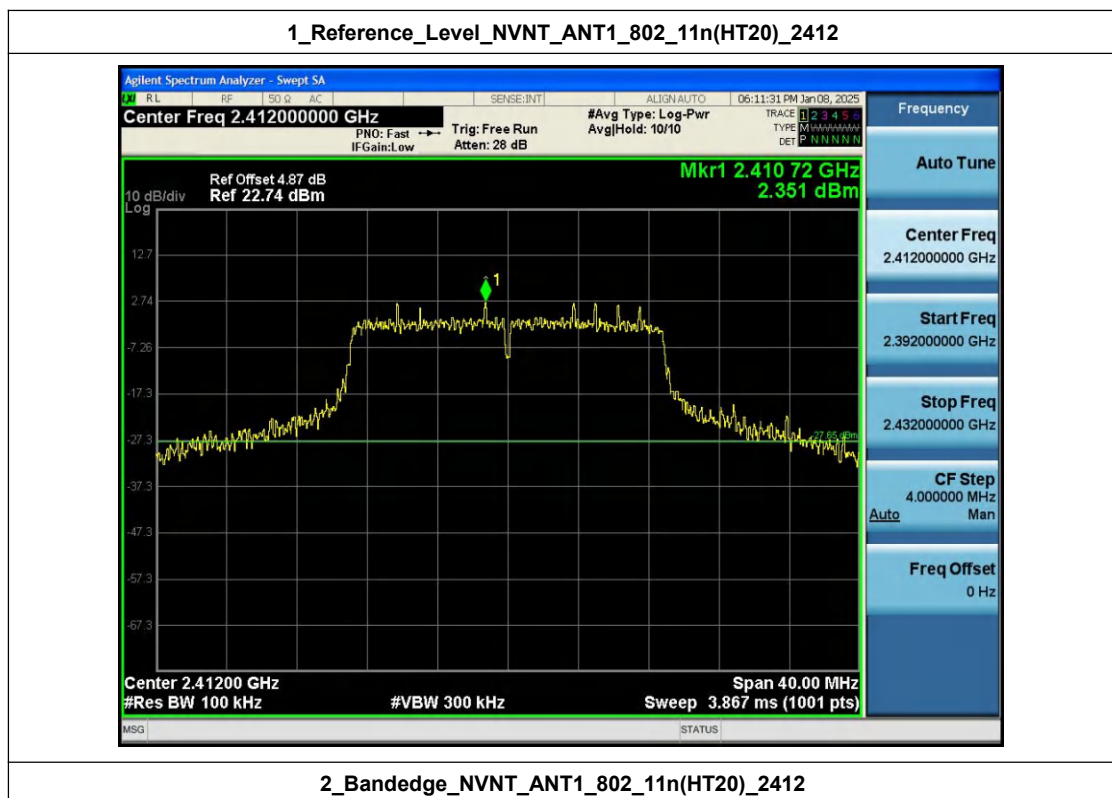
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
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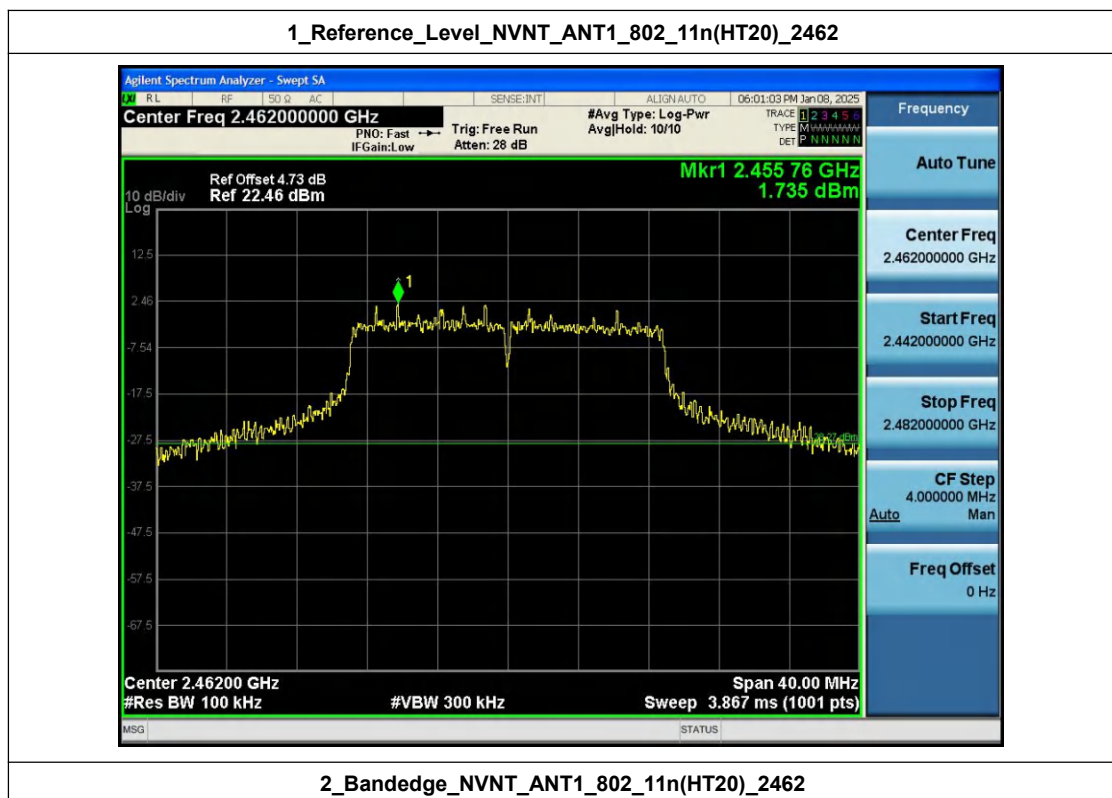
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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	4824.240	5.065	-40.791	-24.935	Pass
NVNT	ANT1	802.11b	2437.00	2611.898	4.469	-39.289	-25.531	Pass
NVNT	ANT1	802.11b	2462.00	4924.120	3.785	-43.710	-26.215	Pass
NVNT	ANT1	802.11g	2412.00	24136.038	2.998	-44.862	-27.002	Pass
NVNT	ANT1	802.11g	2437.00	24885.138	2.442	-49.597	-27.558	Pass
NVNT	ANT1	802.11g	2462.00	24972.533	2.313	-45.097	-27.687	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	4824.240	4.399	-46.858	-25.601	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	2522.006	3.238	-46.446	-26.762	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24820.216	3.007	-44.253	-26.993	Pass

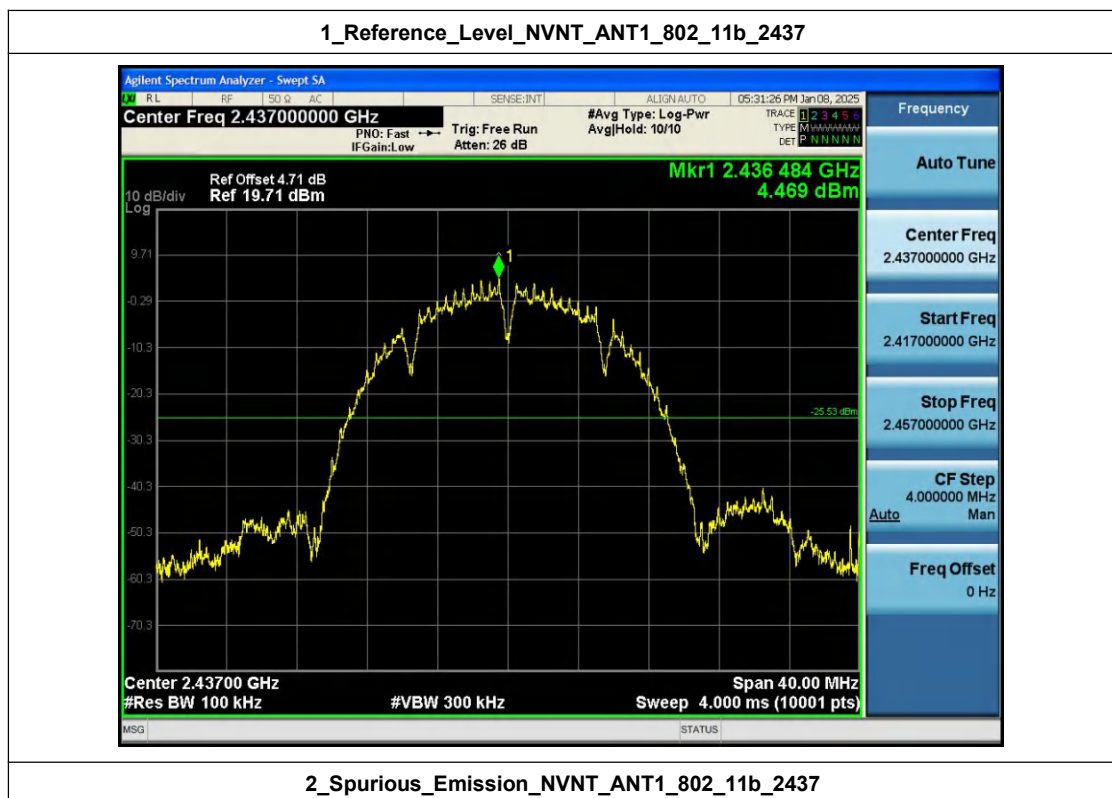
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2_Spurious_Emission_NVNT_ANT1_802_11b_2412



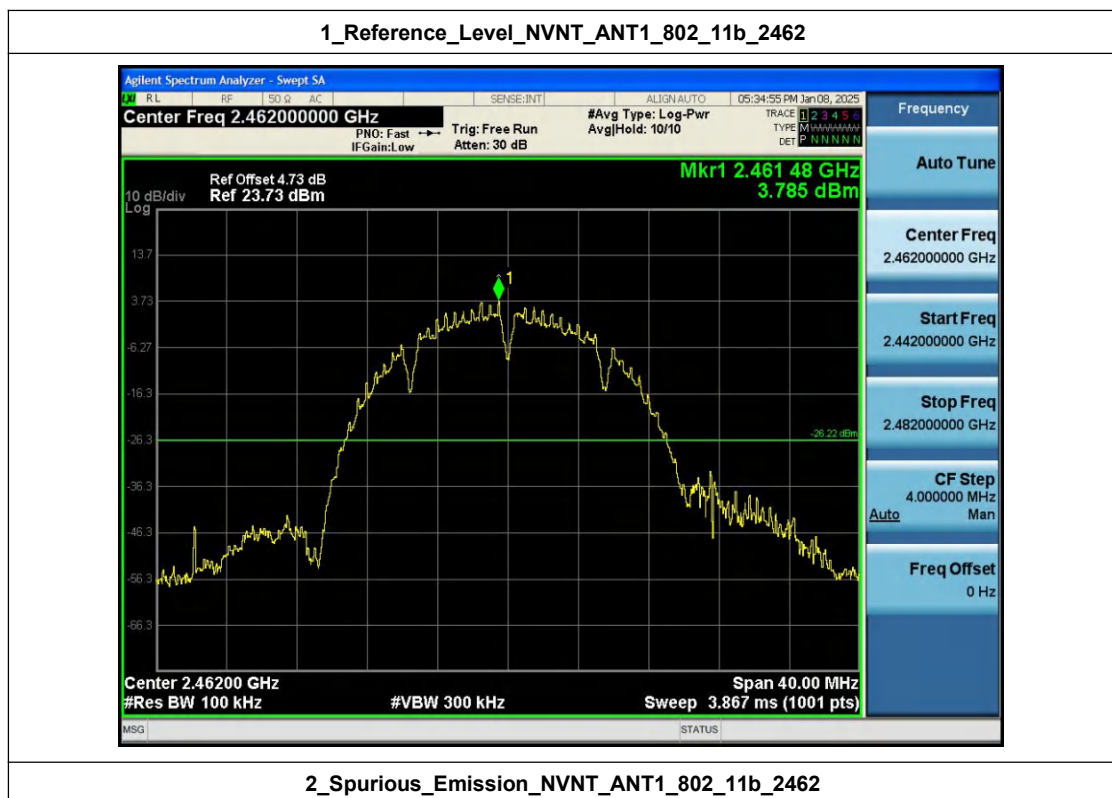
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2_Spurious_Emission_NVNT_ANT1_802_11b_2437



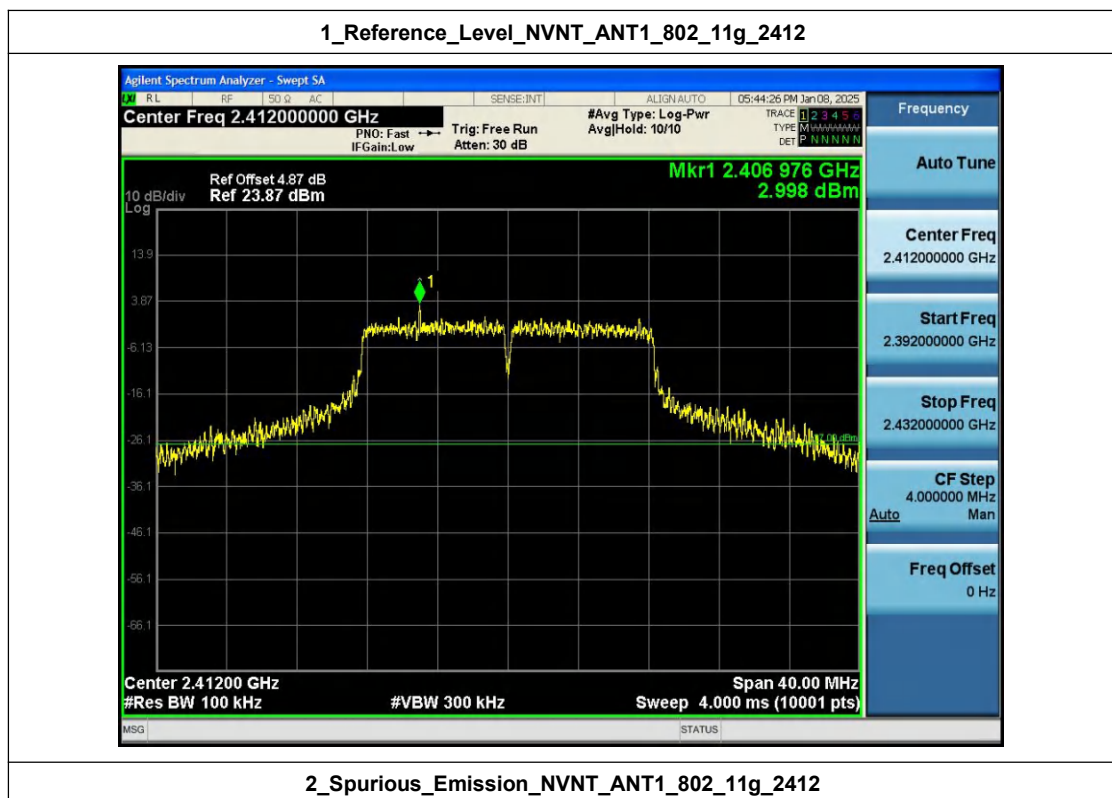
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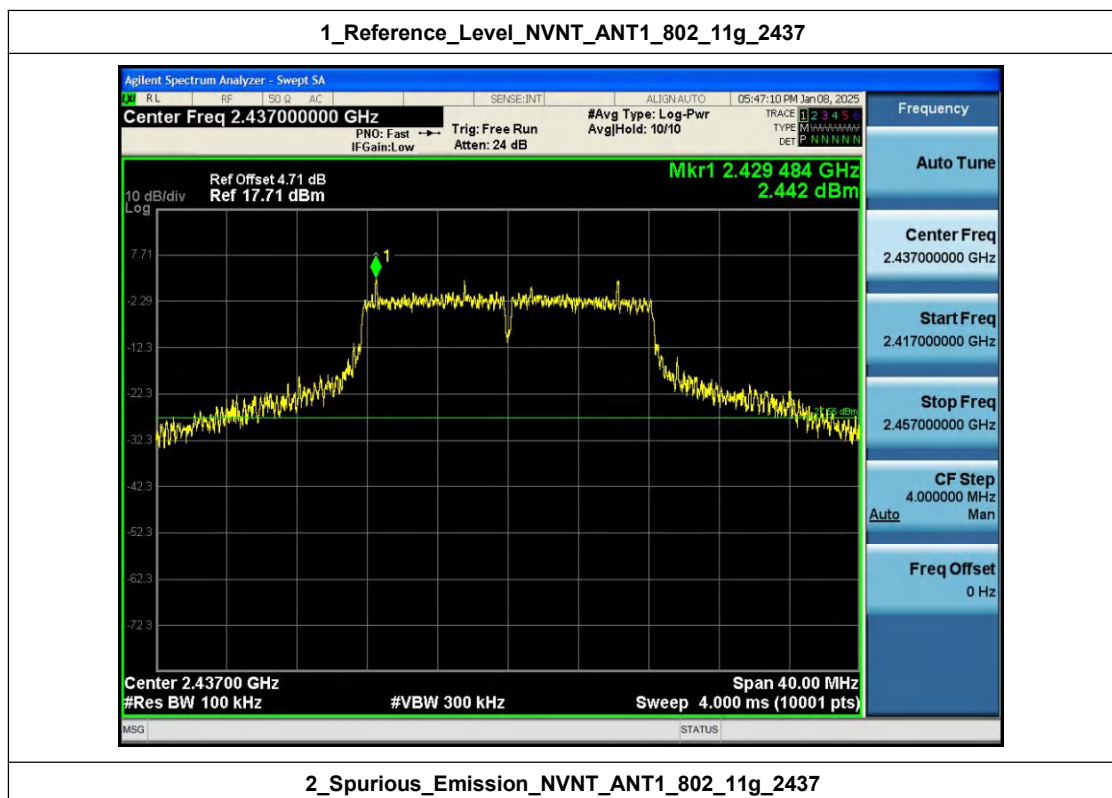
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2_Spurious_Emission_NVNT_ANT1_802_11g_2412



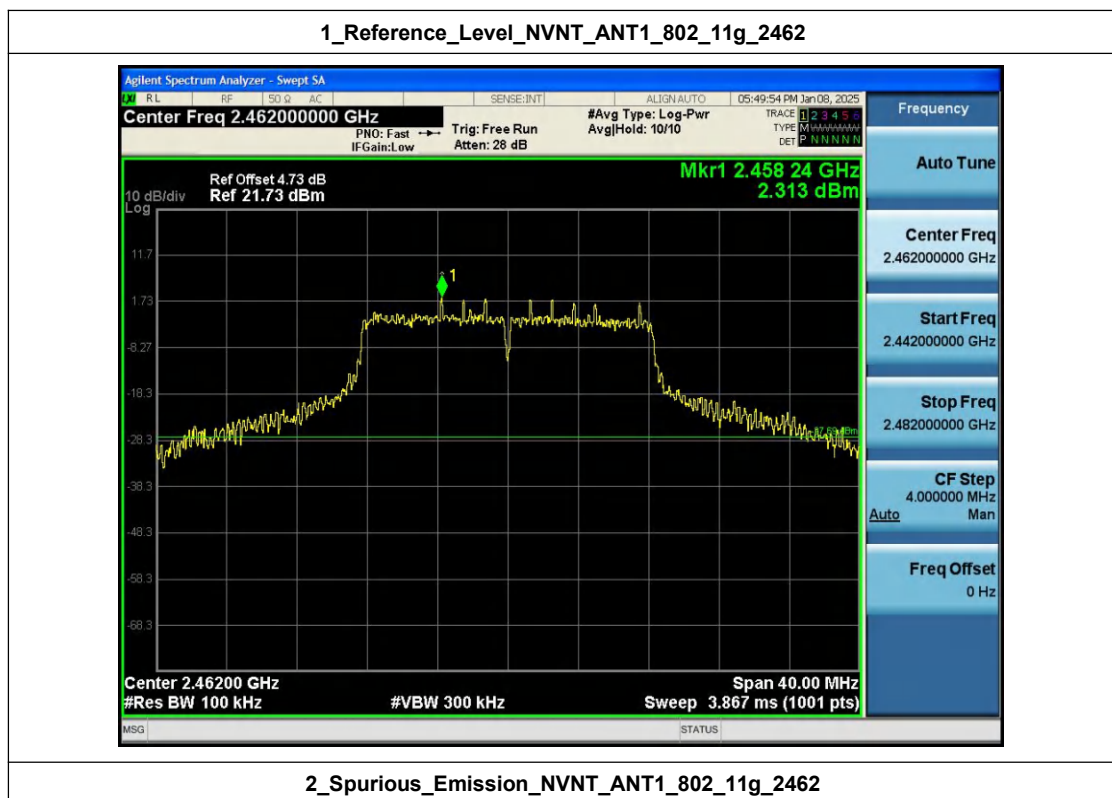
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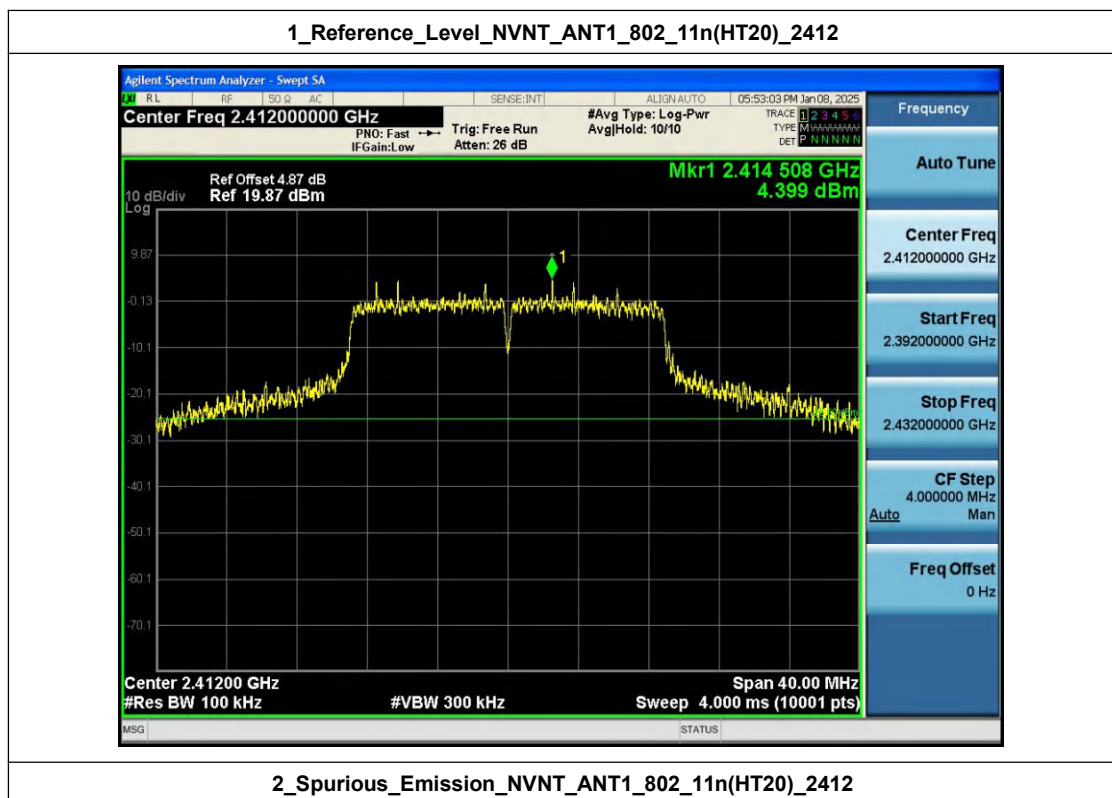
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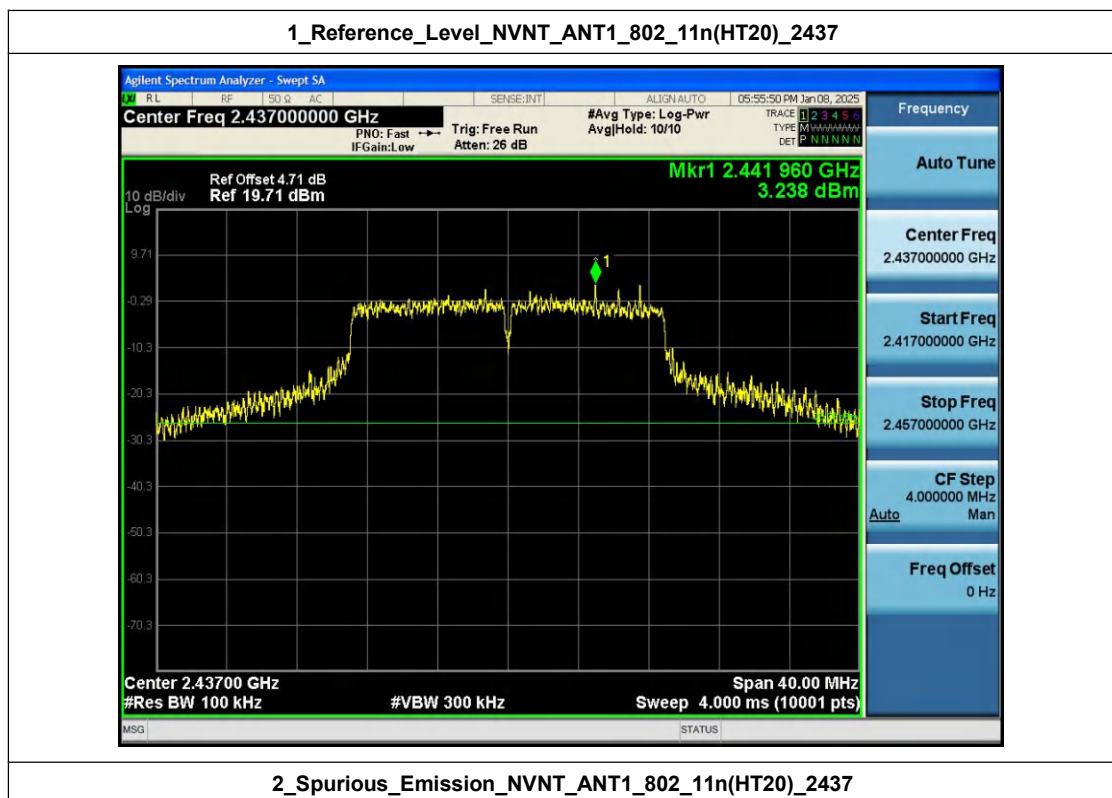
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2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



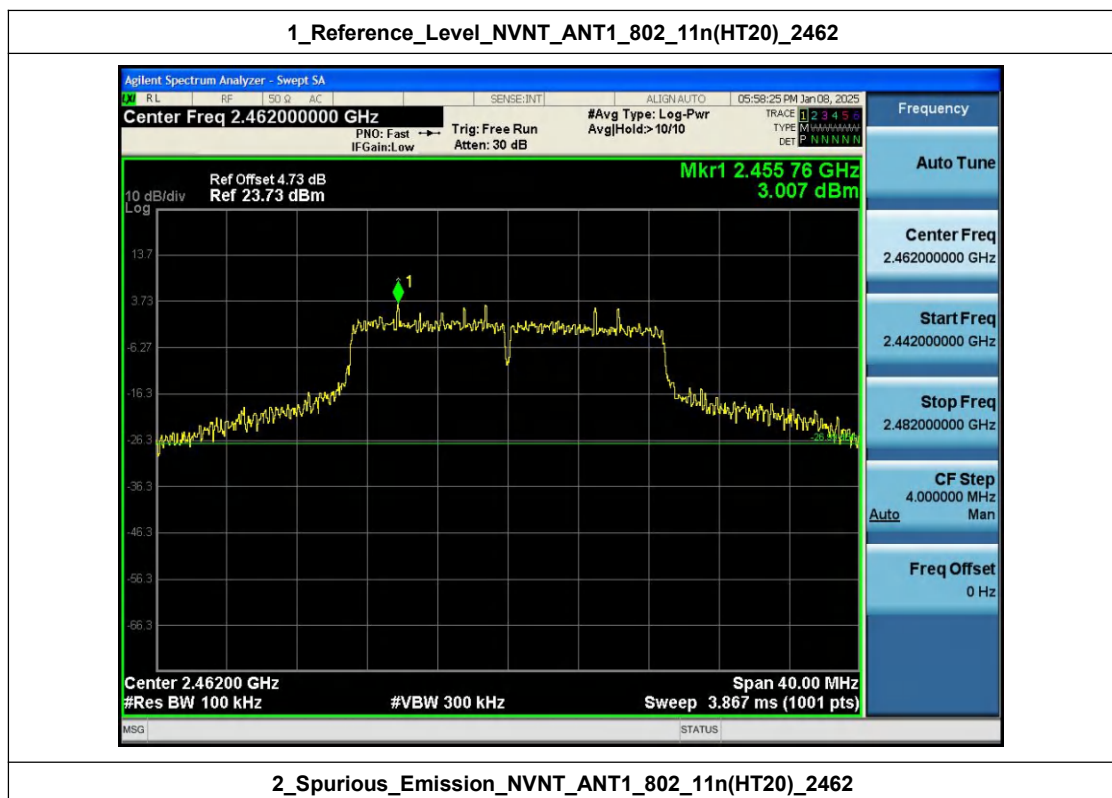
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2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



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