

Appendix Test Data

Report No.:	1818C50016712502	Test Sample No.:	1-2-2
Start Test Date:	2025.2.13	Finish Test Date:	2025.2.25
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.3°C	Relative Humidity:	60%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

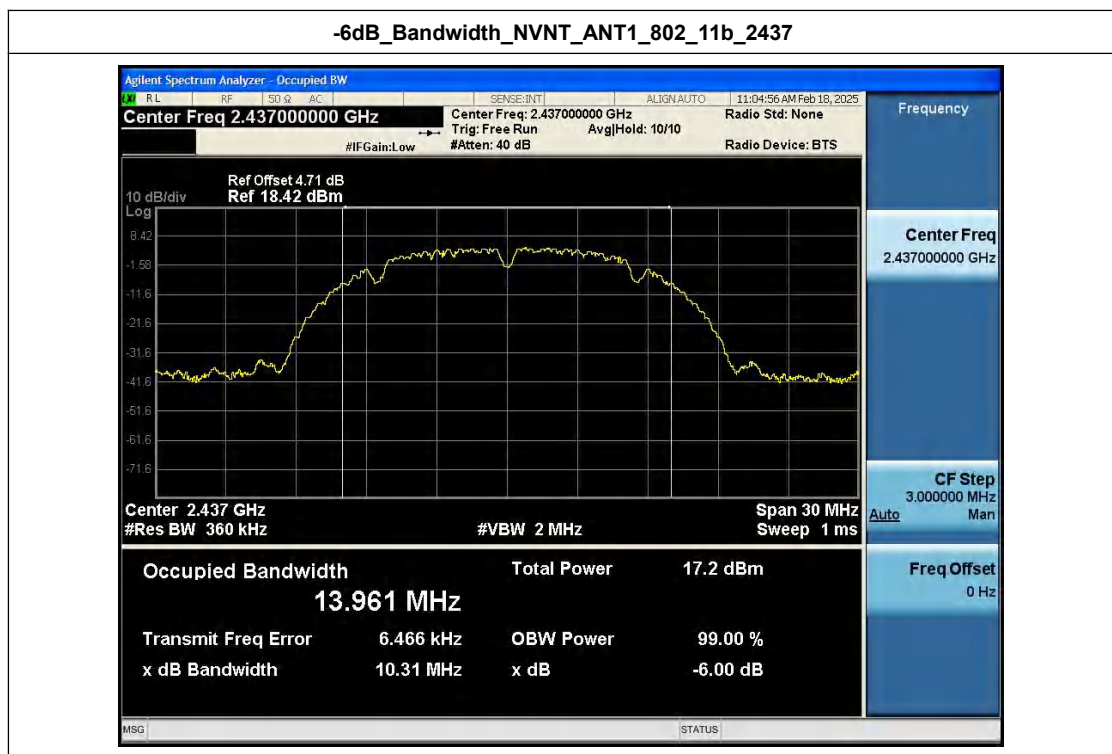
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.30	500	Pass
NVNT	ANT1	802.11b	2437.00	10.31	500	Pass
NVNT	ANT1	802.11b	2462.00	10.29	500	Pass
NVNT	ANT1	802.11g	2412.00	15.25	500	Pass
NVNT	ANT1	802.11g	2437.00	14.96	500	Pass
NVNT	ANT1	802.11g	2462.00	14.95	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.05	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.06	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.19	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	33.49	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	33.58	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.32	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412





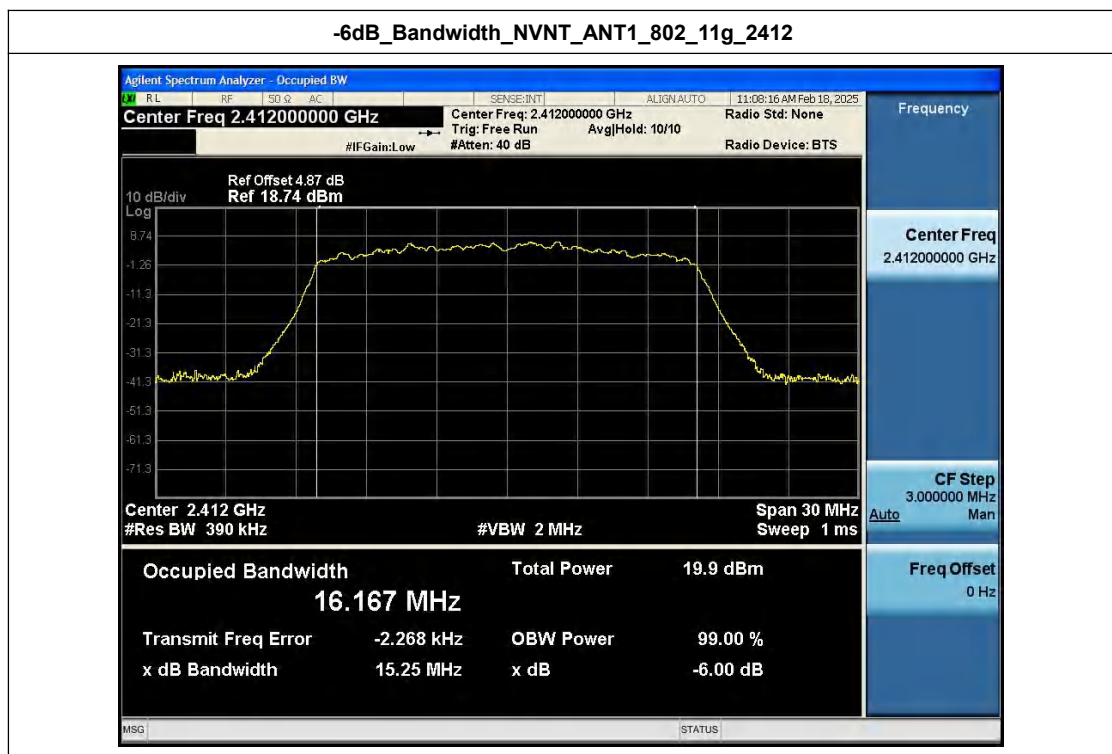
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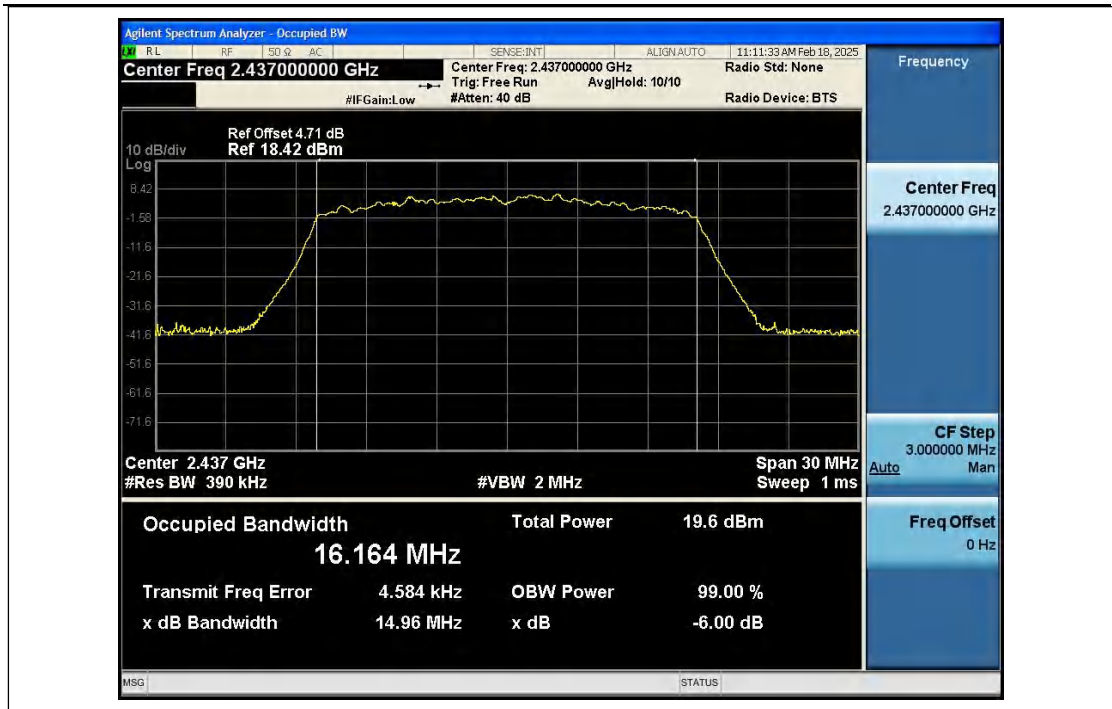
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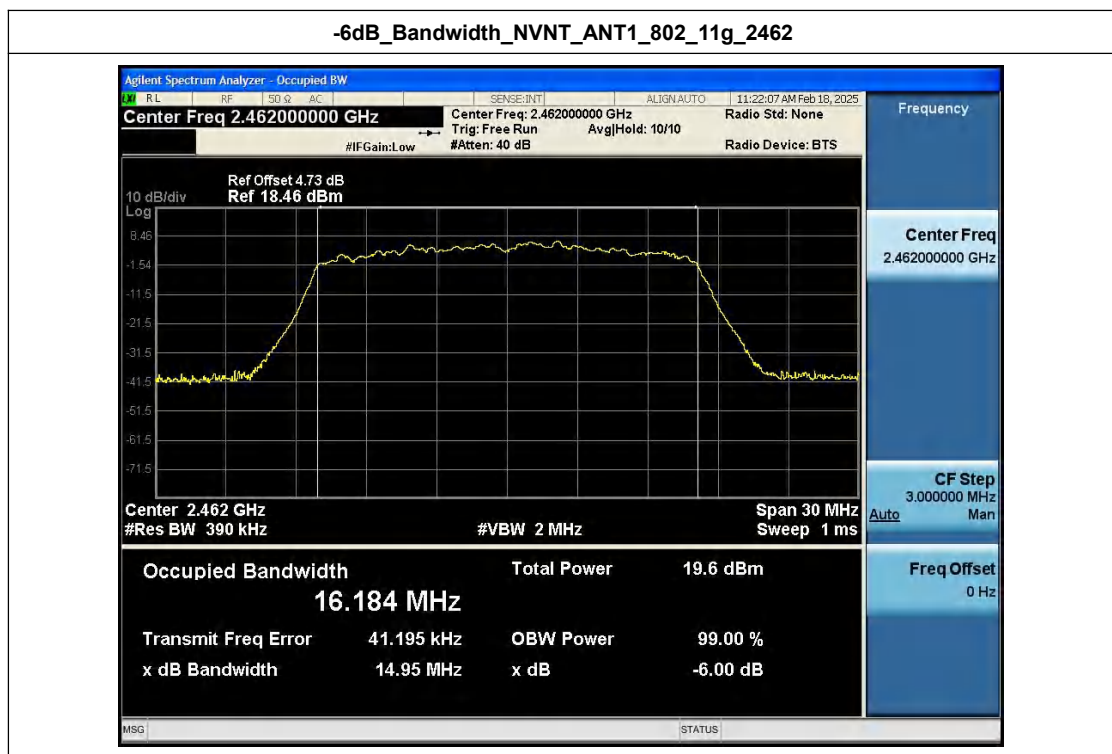
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-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



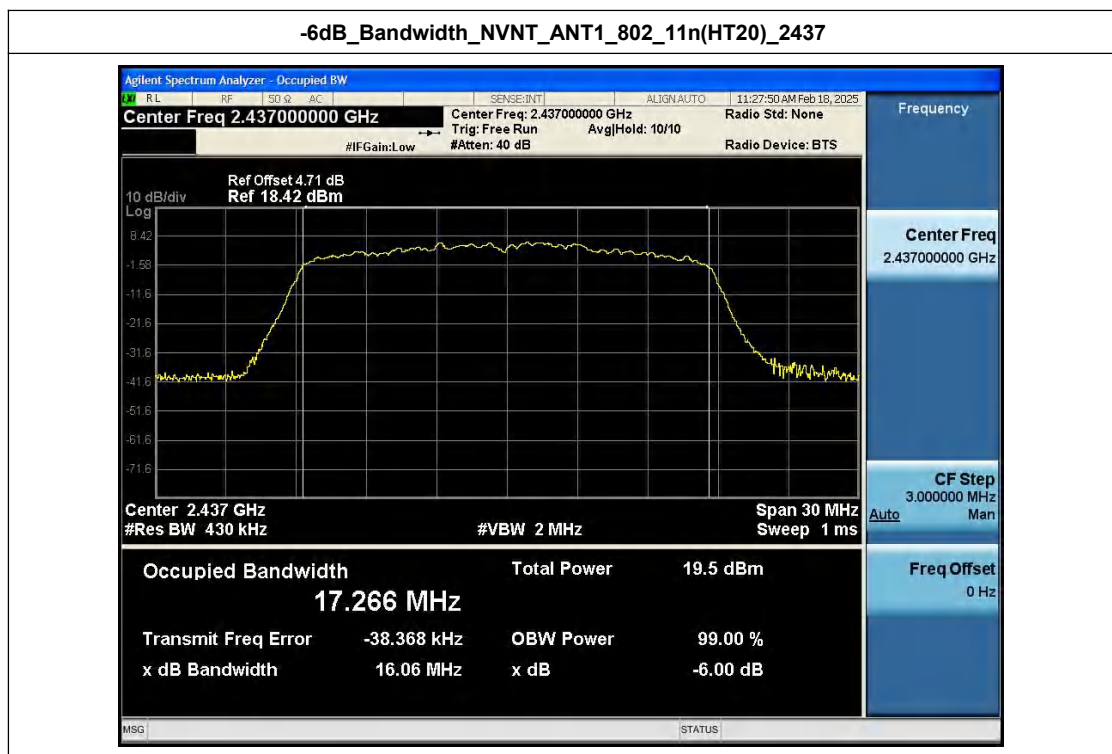
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



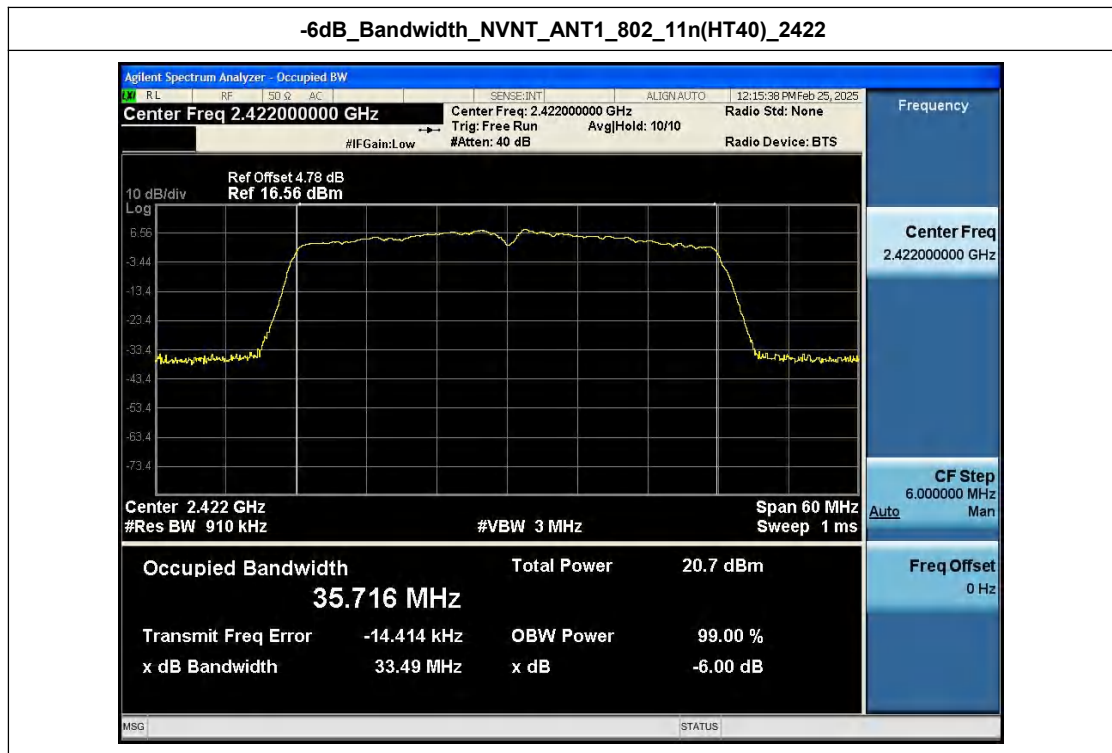
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

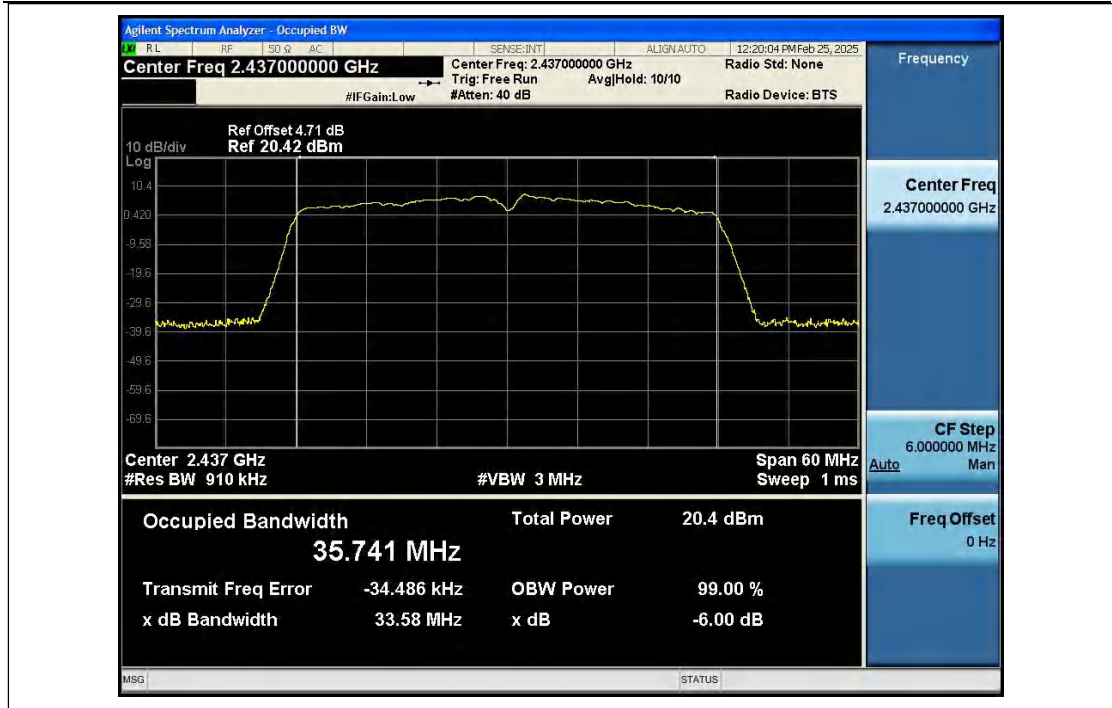


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422

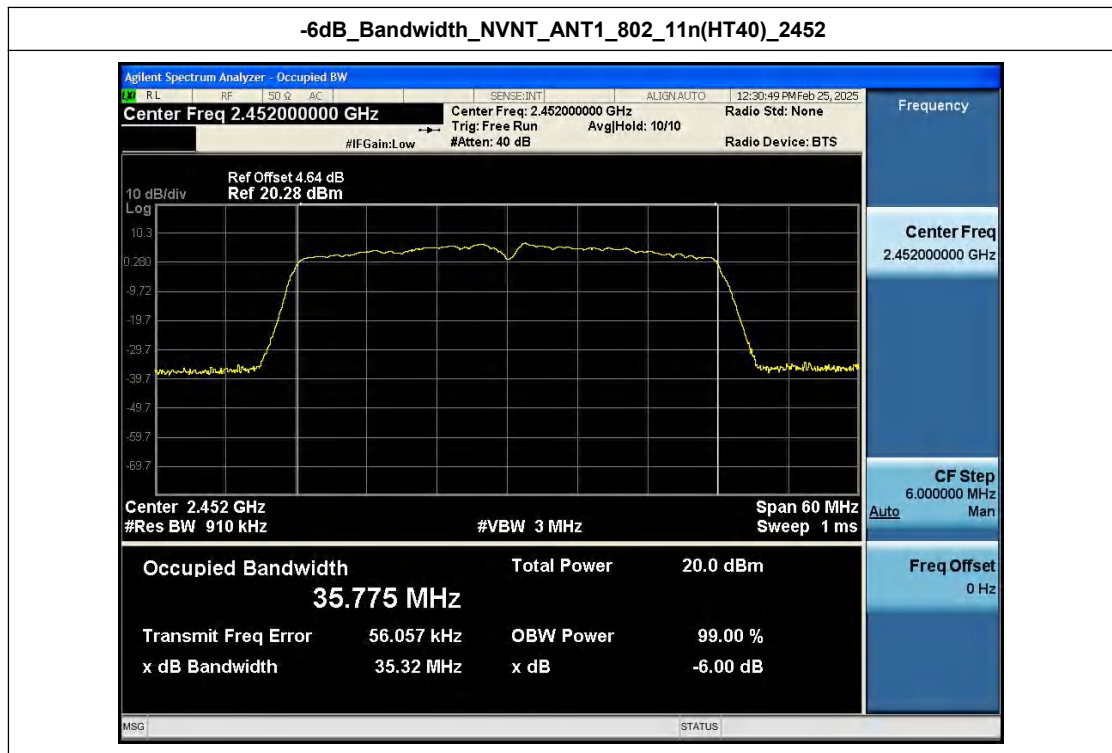


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437





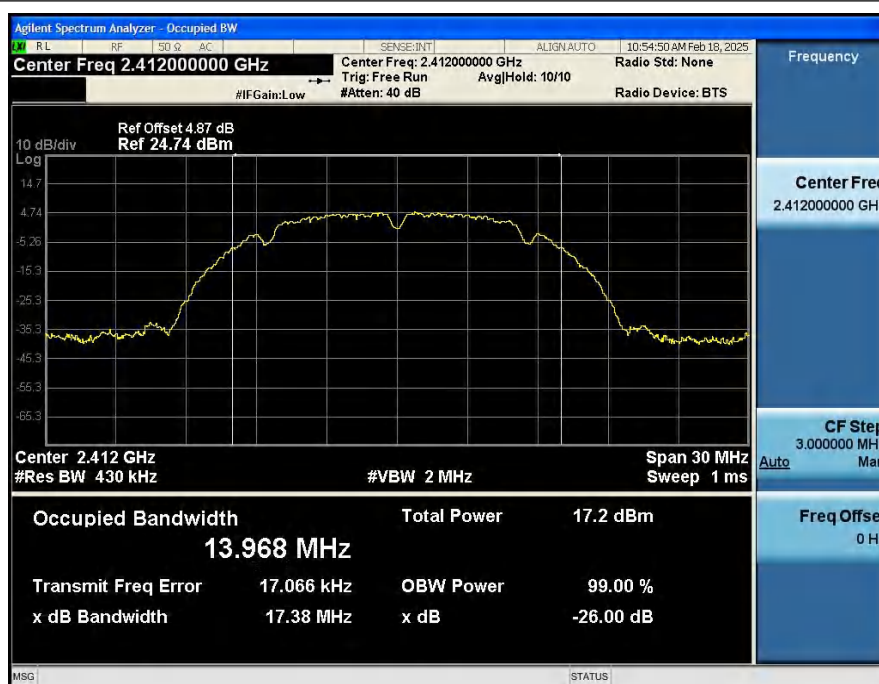
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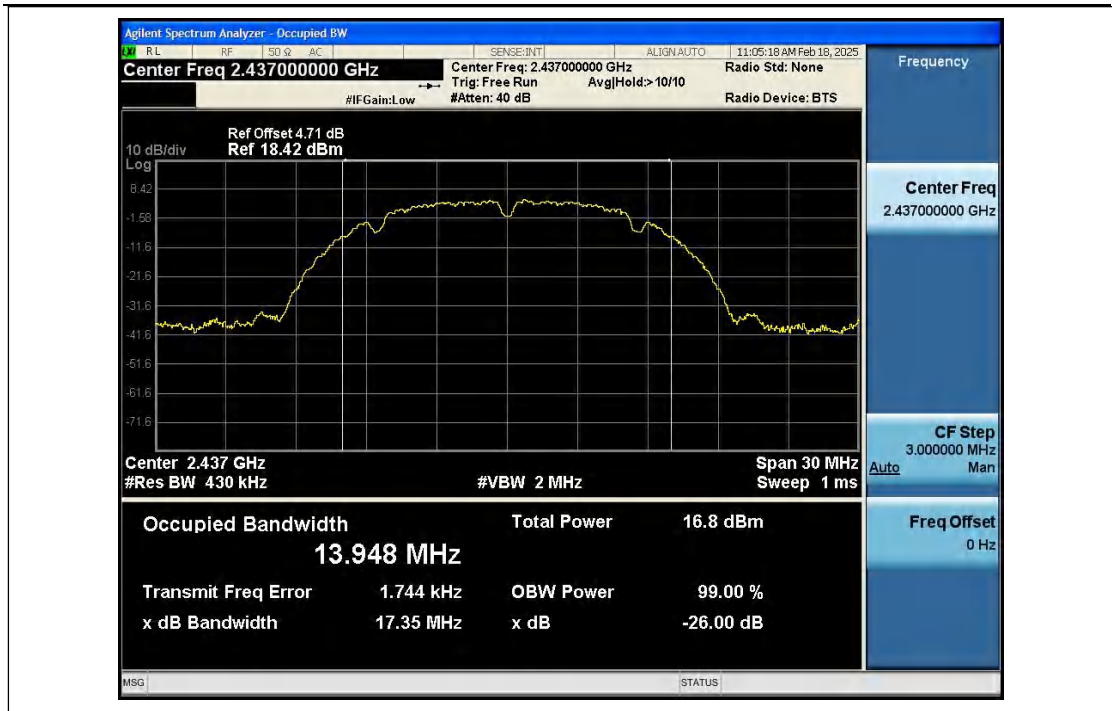
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.968
NVNT	ANT1	802.11b	2437.00	13.948
NVNT	ANT1	802.11b	2462.00	13.945
NVNT	ANT1	802.11g	2412.00	16.190
NVNT	ANT1	802.11g	2437.00	16.191
NVNT	ANT1	802.11g	2462.00	16.207
NVNT	ANT1	802.11n(HT20)	2412.00	17.282
NVNT	ANT1	802.11n(HT20)	2437.00	17.284
NVNT	ANT1	802.11n(HT20)	2462.00	17.285
NVNT	ANT1	802.11n(HT40)	2422.00	35.711
NVNT	ANT1	802.11n(HT40)	2437.00	35.748
NVNT	ANT1	802.11n(HT40)	2452.00	35.775

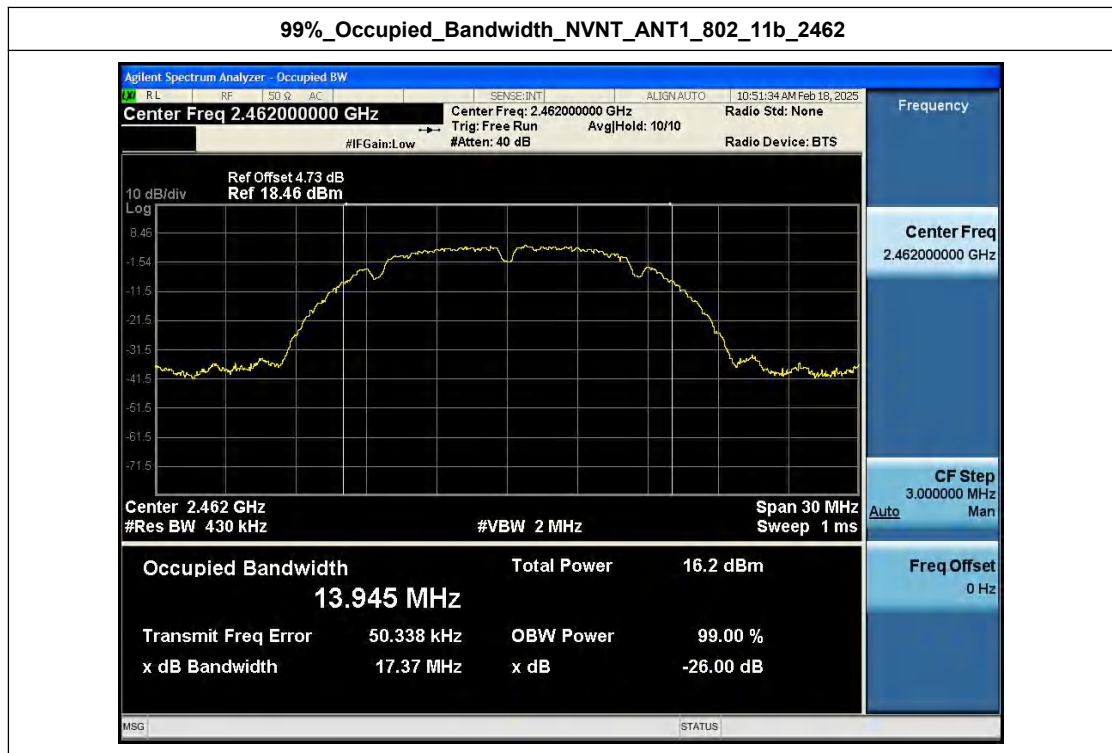
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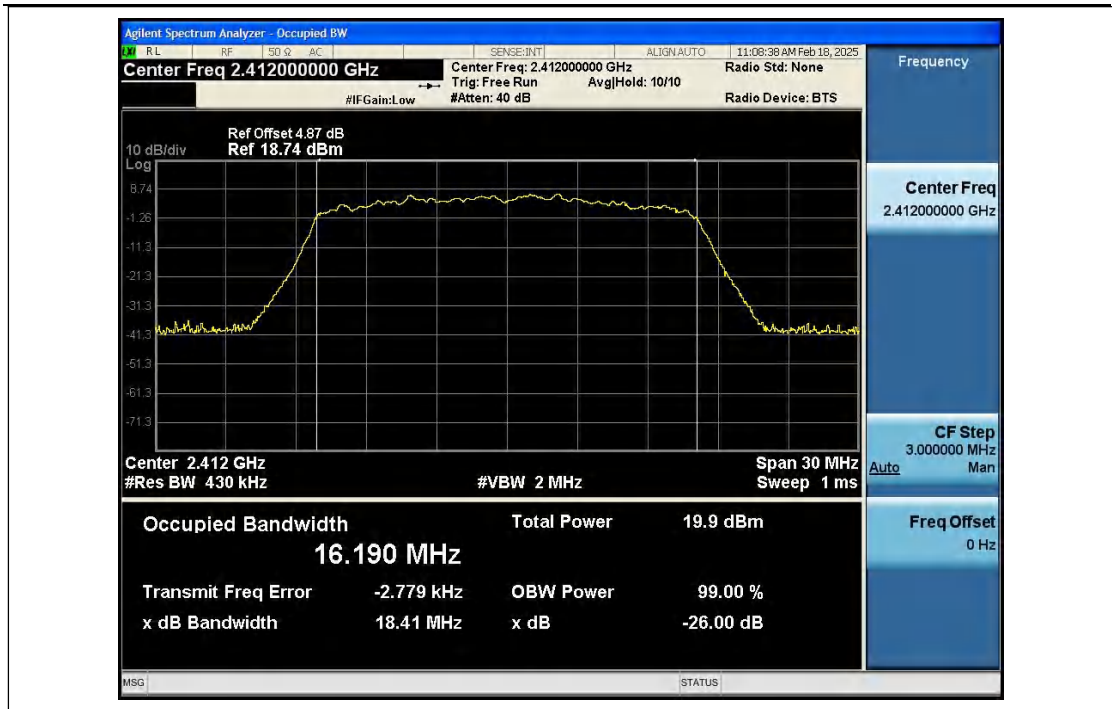
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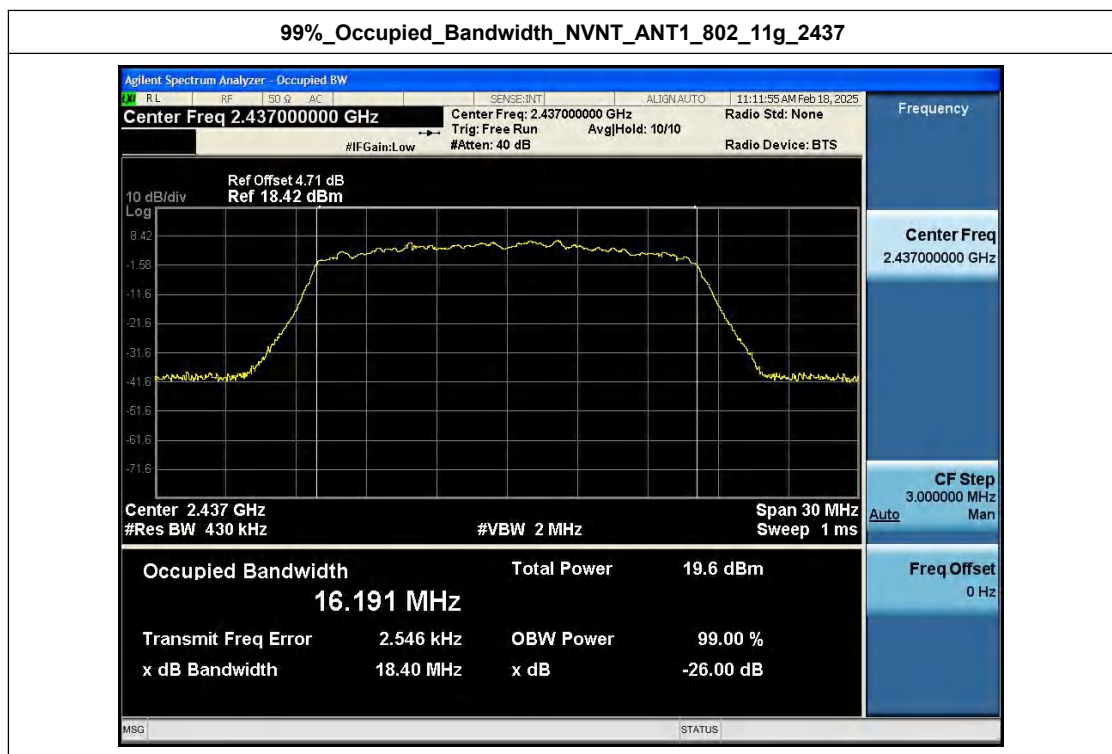
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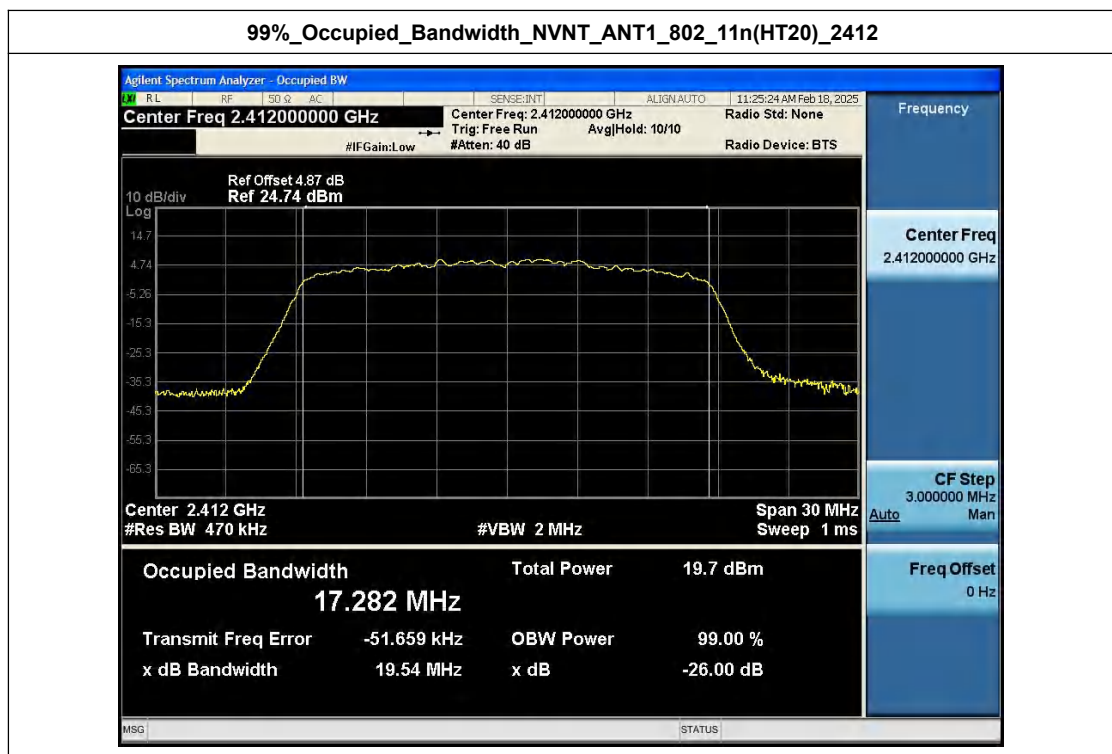
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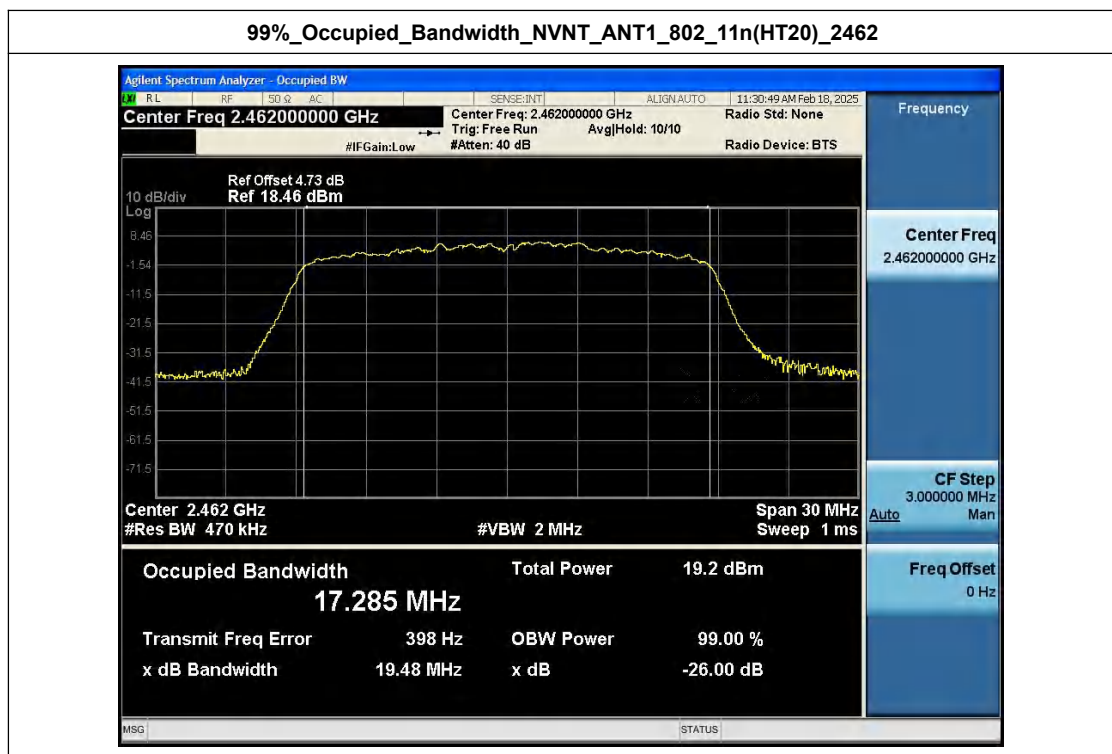
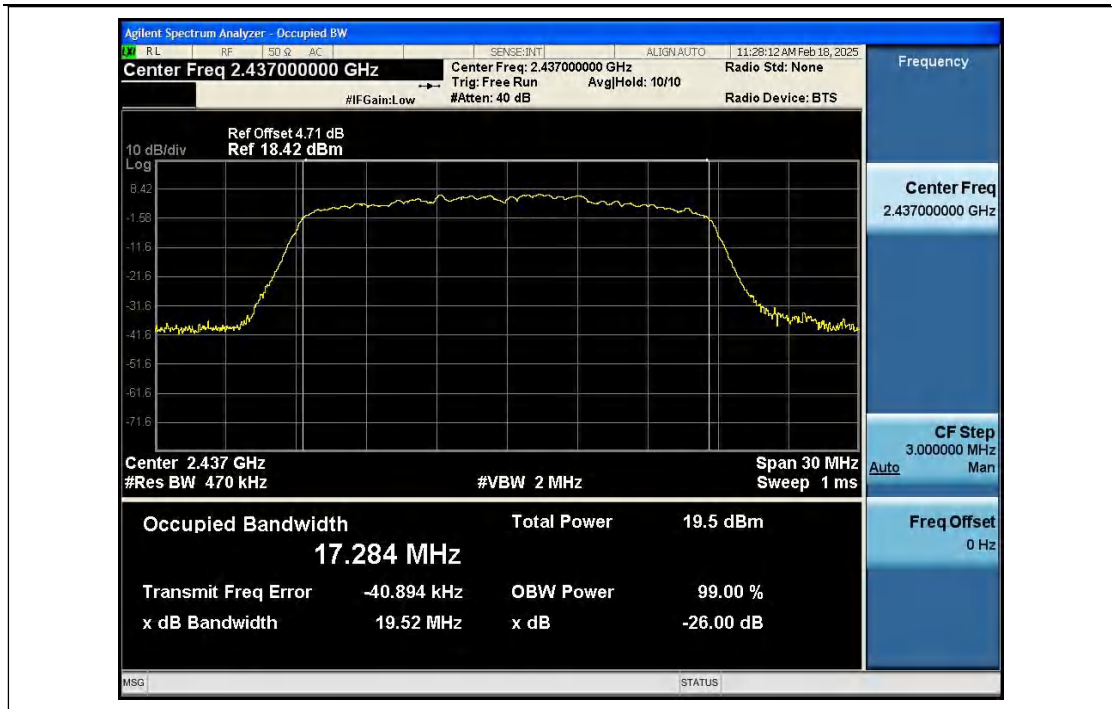
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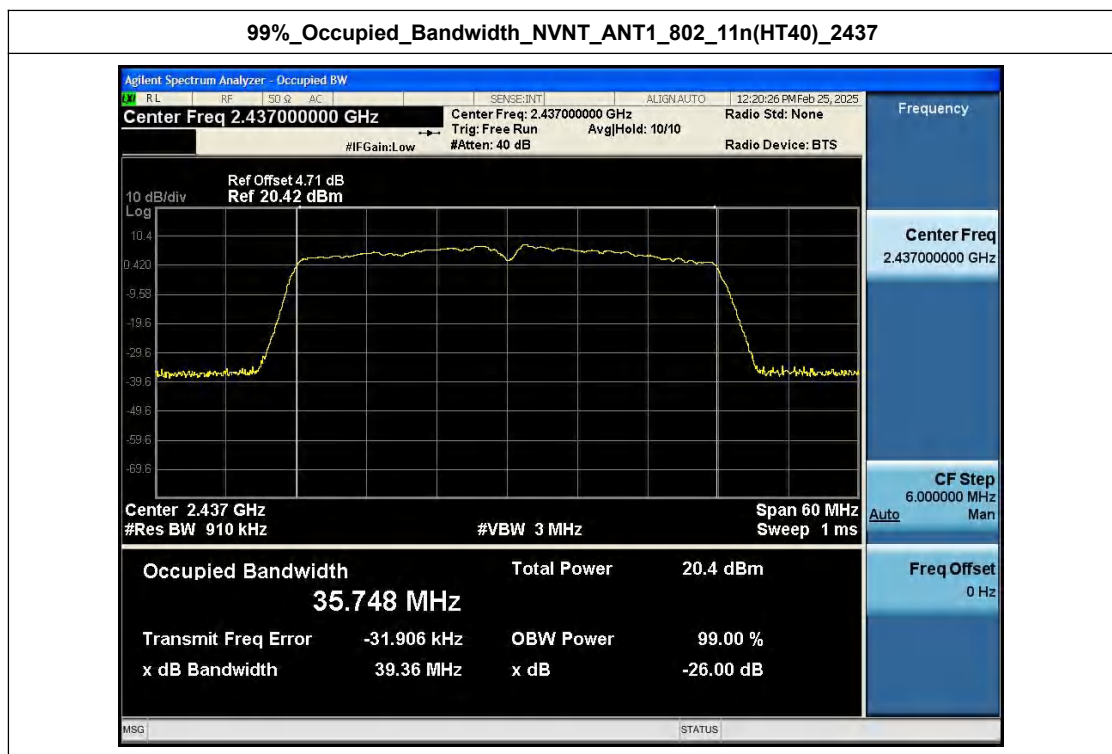
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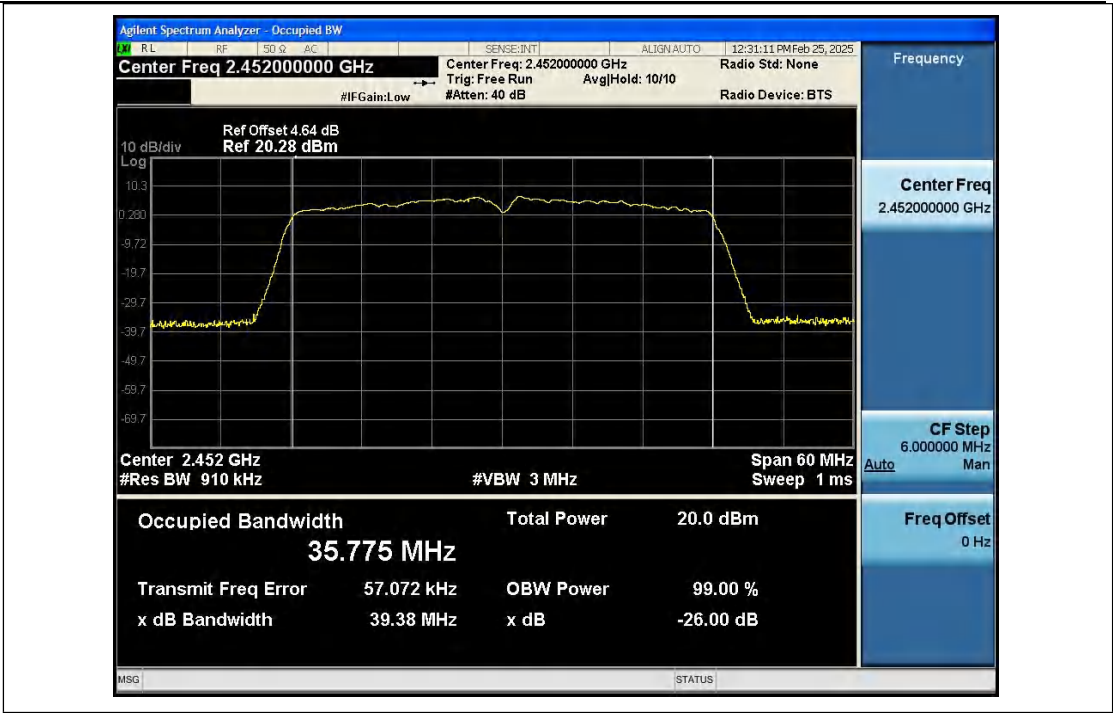
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



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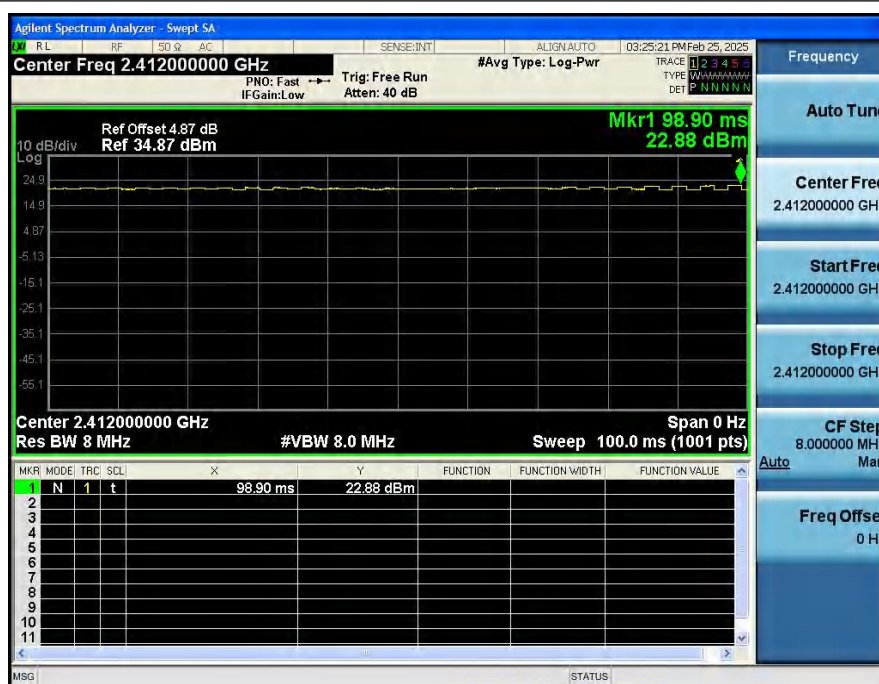
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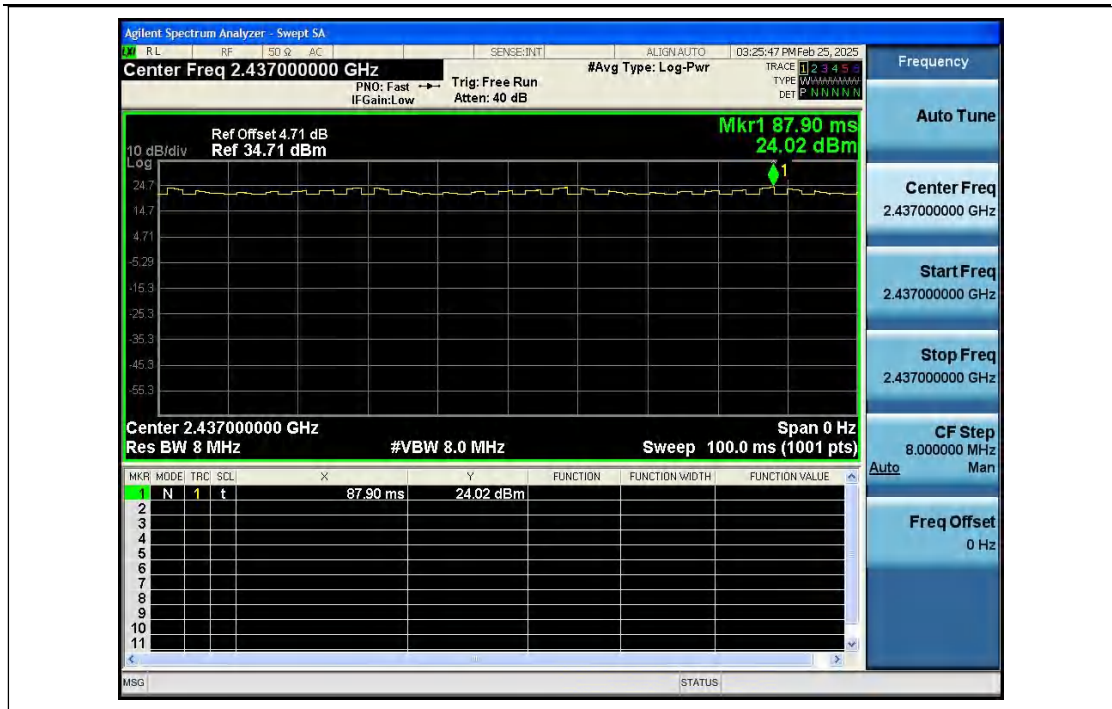
Appendix C: Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	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
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00

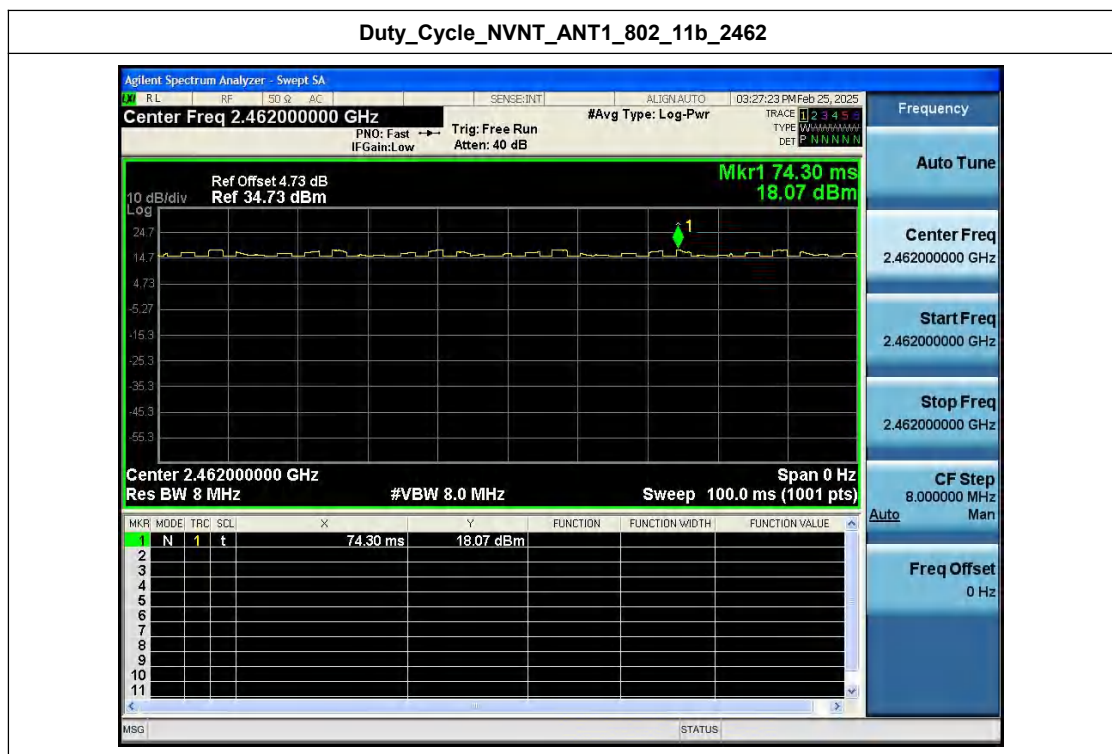
Duty_Cycle_NVNT_ANT1_802_11b_2412



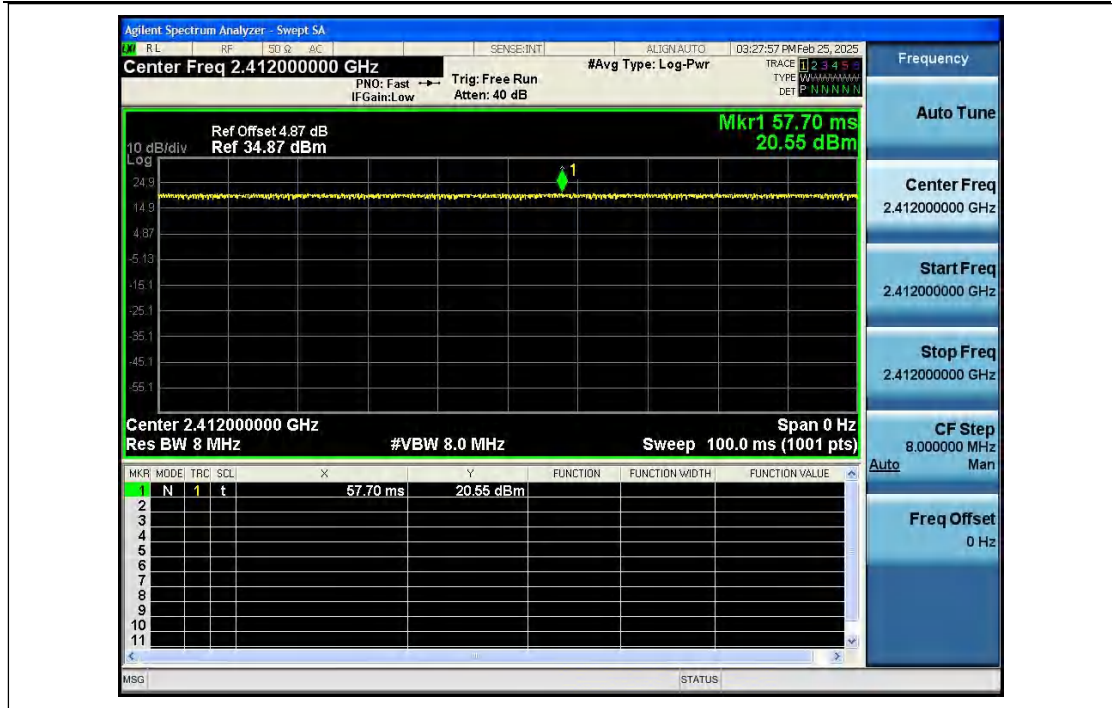
Duty_Cycle_NVNT_ANT1_802_11b_2437



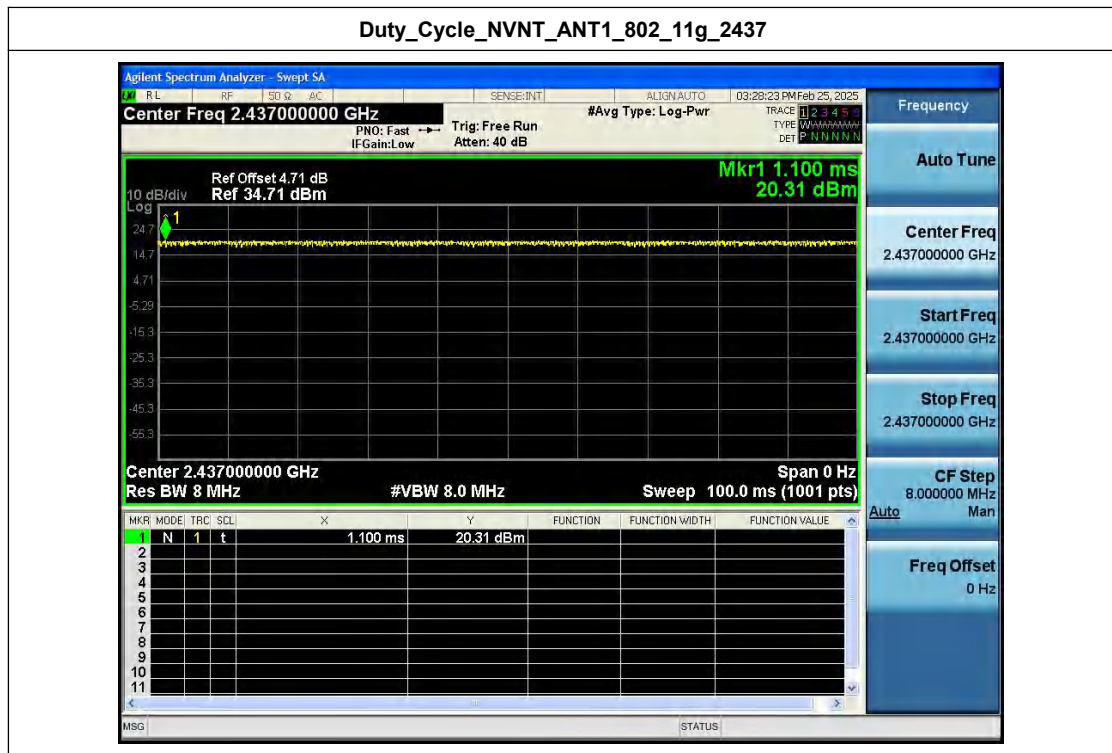
Duty_Cycle_NVNT_ANT1_802_11b_2462



Duty_Cycle_NVNT_ANT1_802_11g_2412



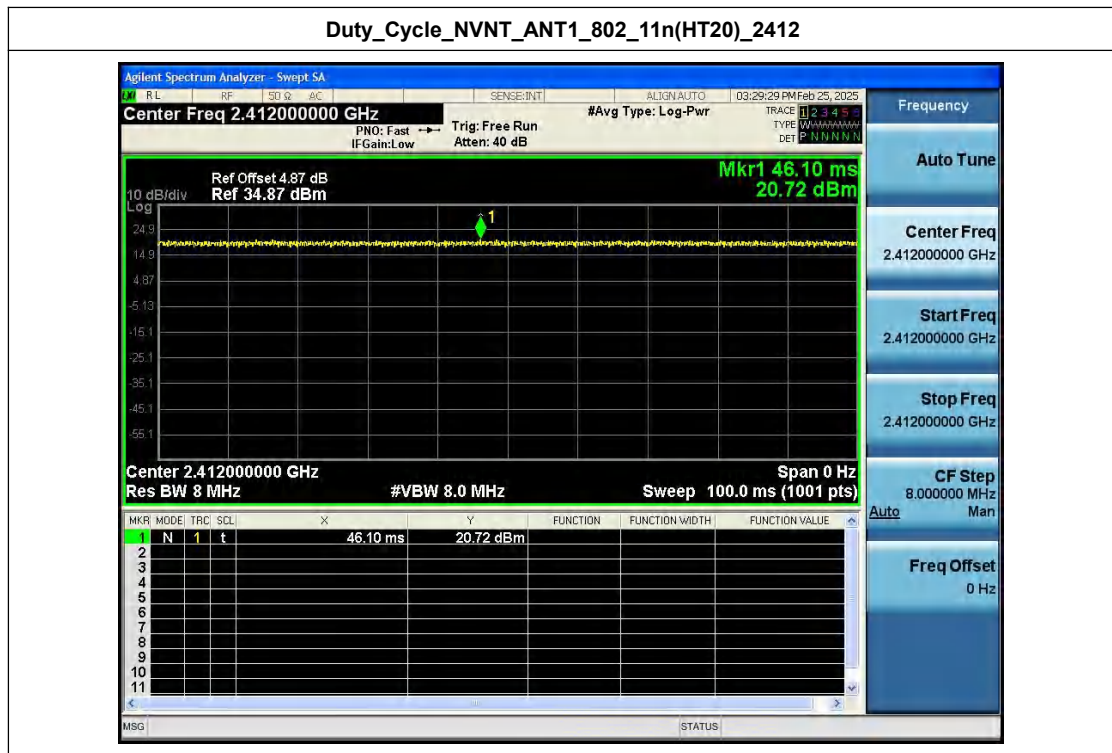
Duty_Cycle_NVNT_ANT1_802_11g_2437



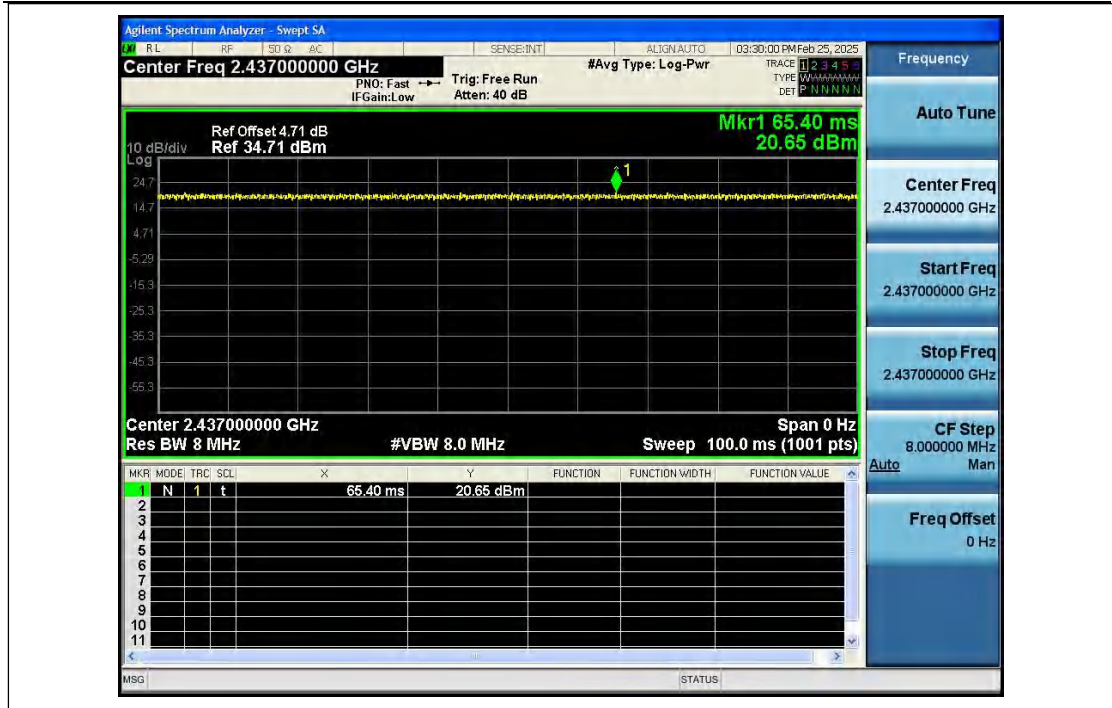
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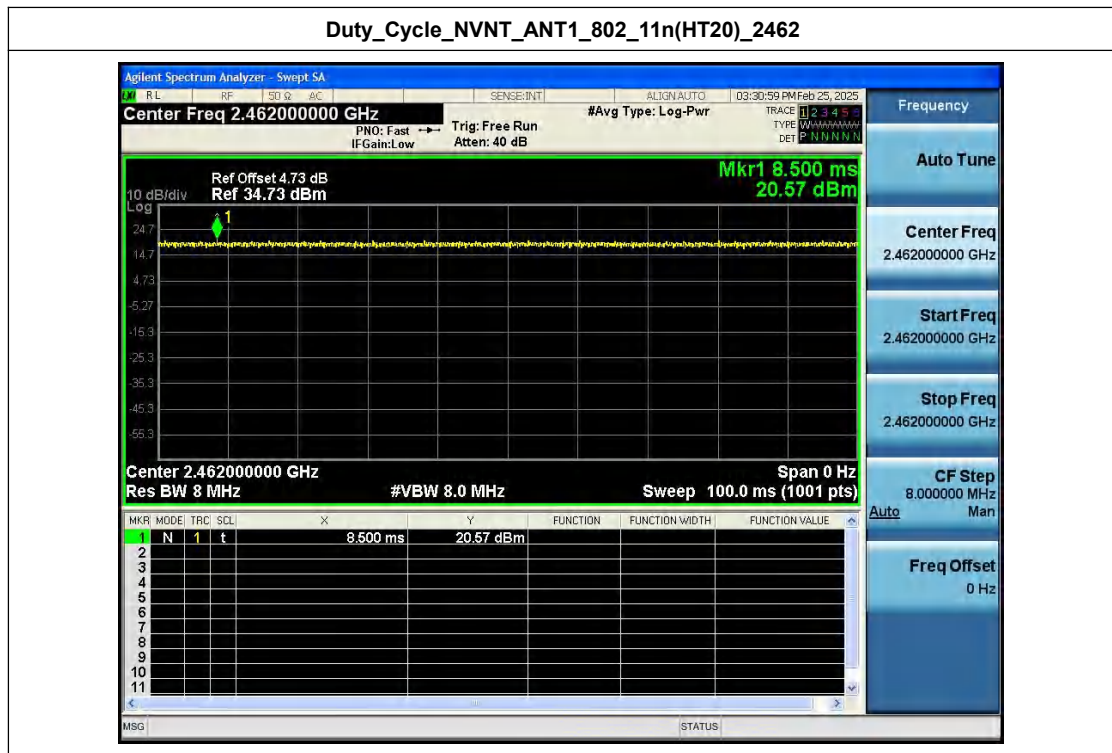
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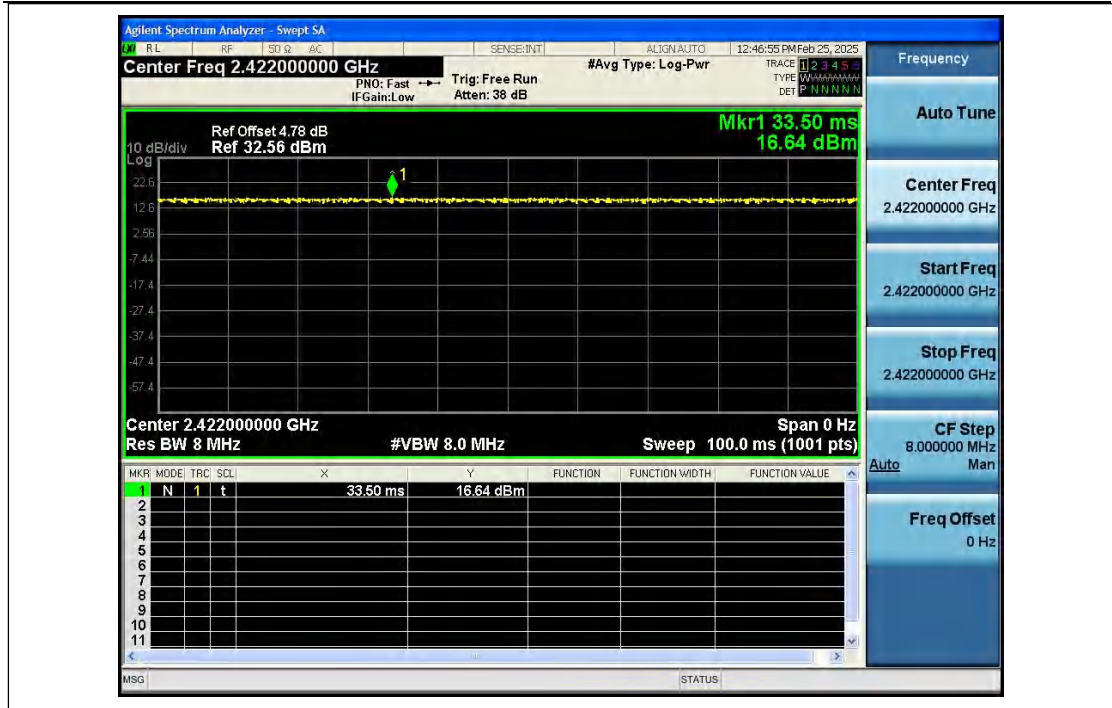
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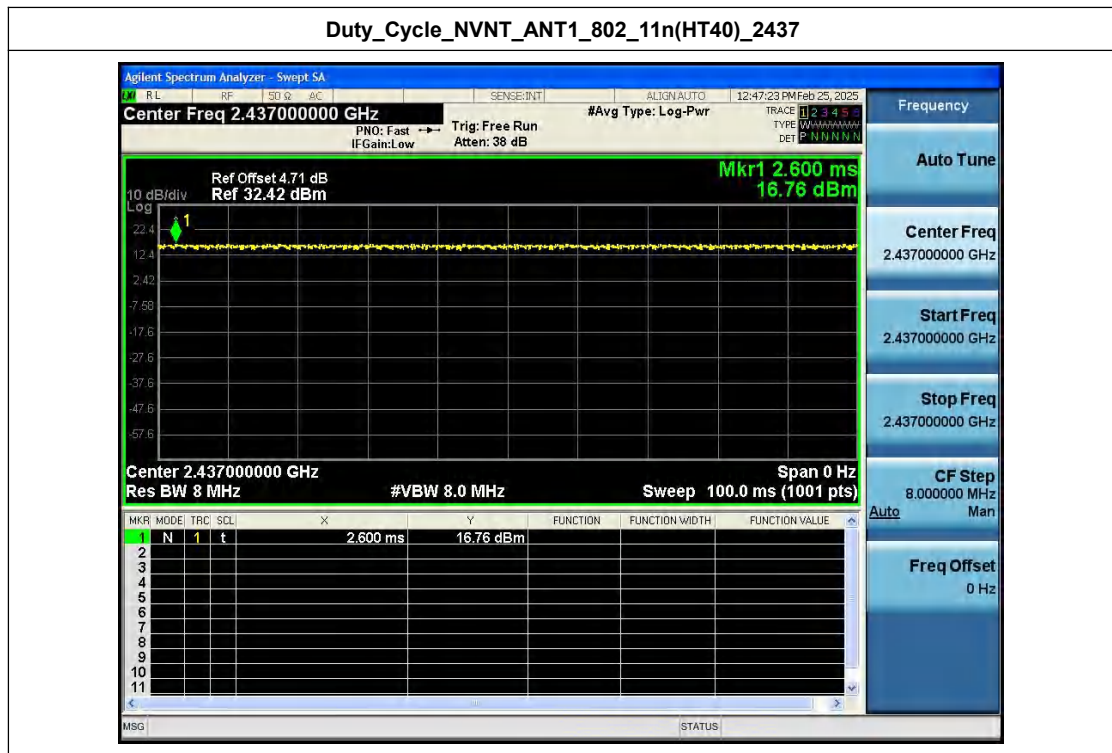
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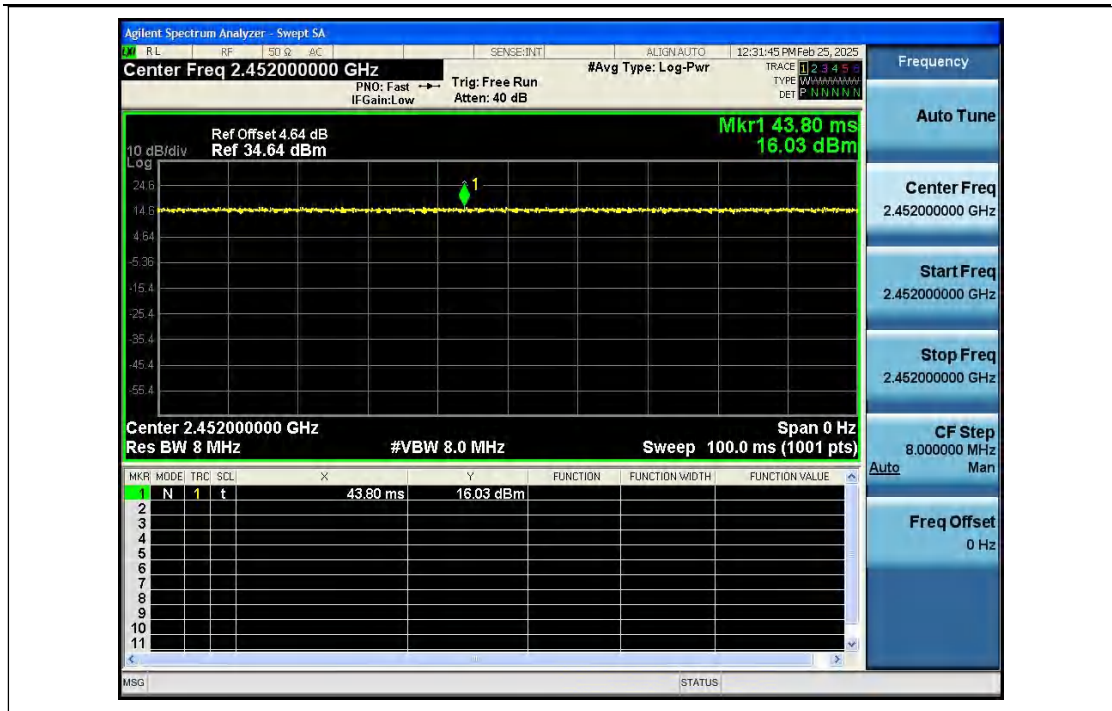
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



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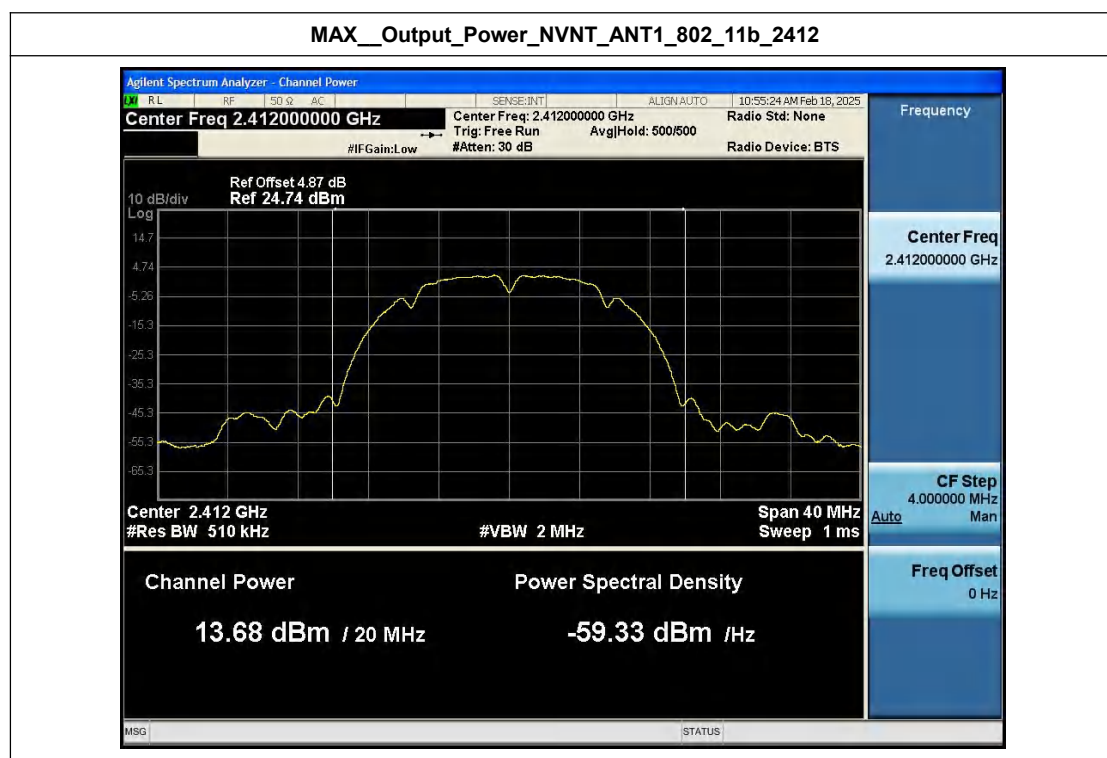


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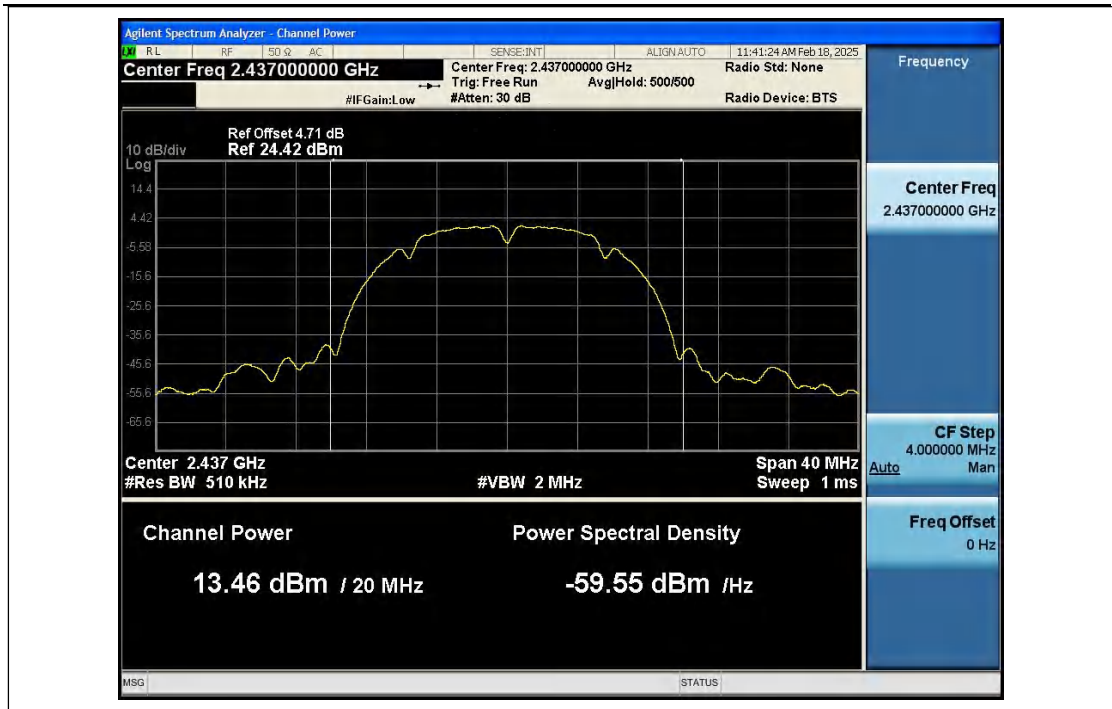
Appendix D: MAX. Output Power

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	13.68	0.00	13.68	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.46	0.00	13.46	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	12.86	0.00	12.86	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.25	0.00	13.25	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	12.97	0.00	12.97	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.81	0.00	12.81	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	13.06	0.00	13.06	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	12.81	0.00	12.81	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	12.58	0.00	12.58	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	13.04	0.00	13.04	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	12.80	0.00	12.80	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	12.34	0.00	12.34	30	Pass

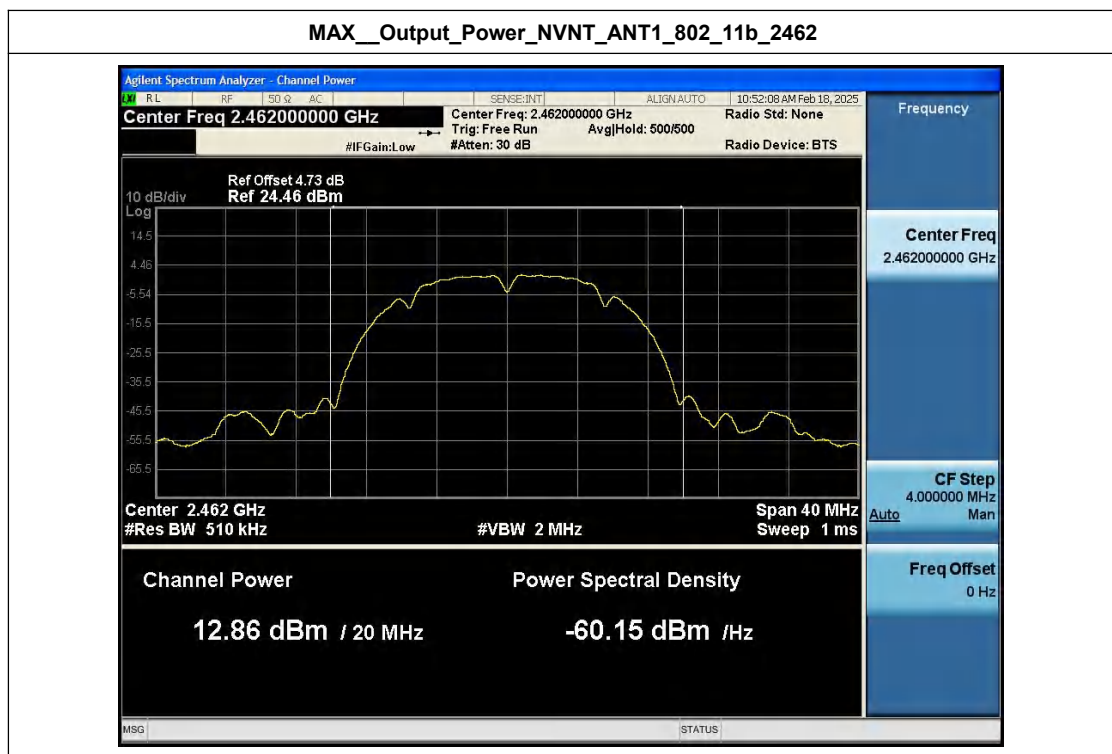
Note: The cable loss are compensated in the graph.



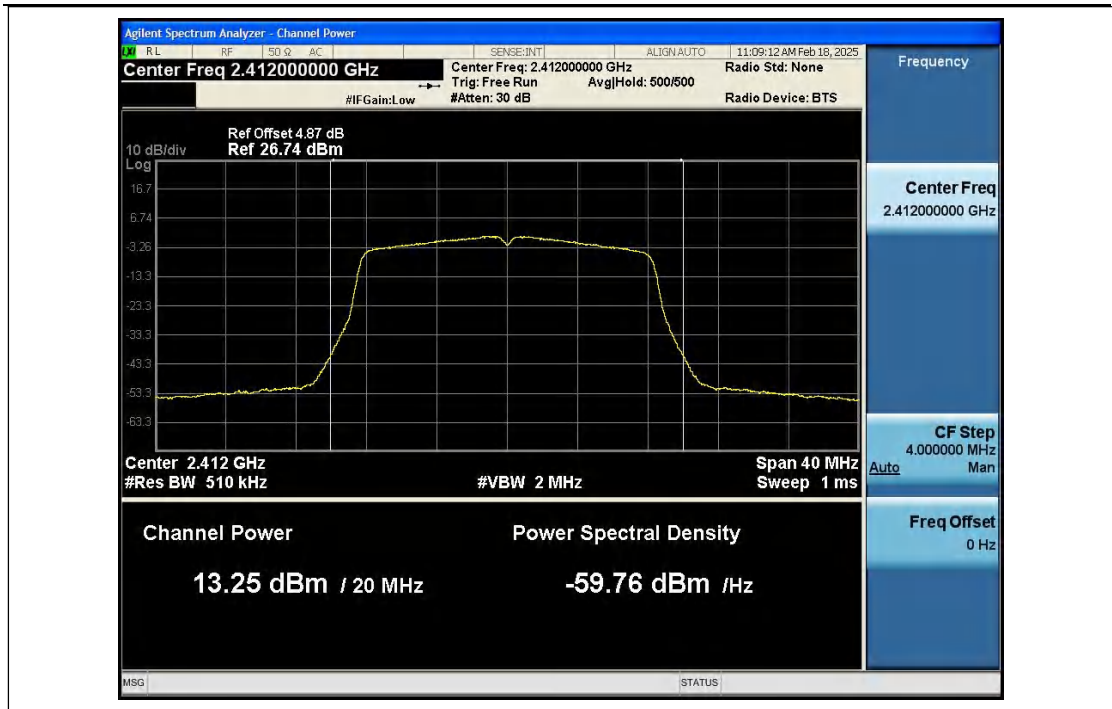
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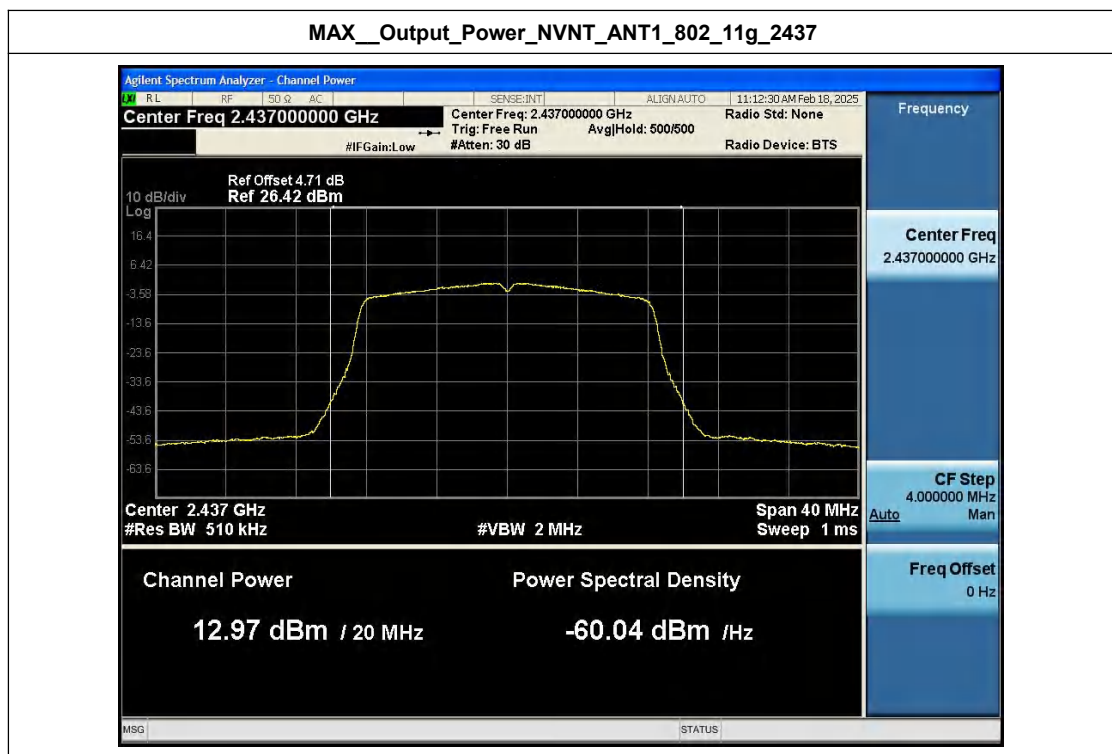
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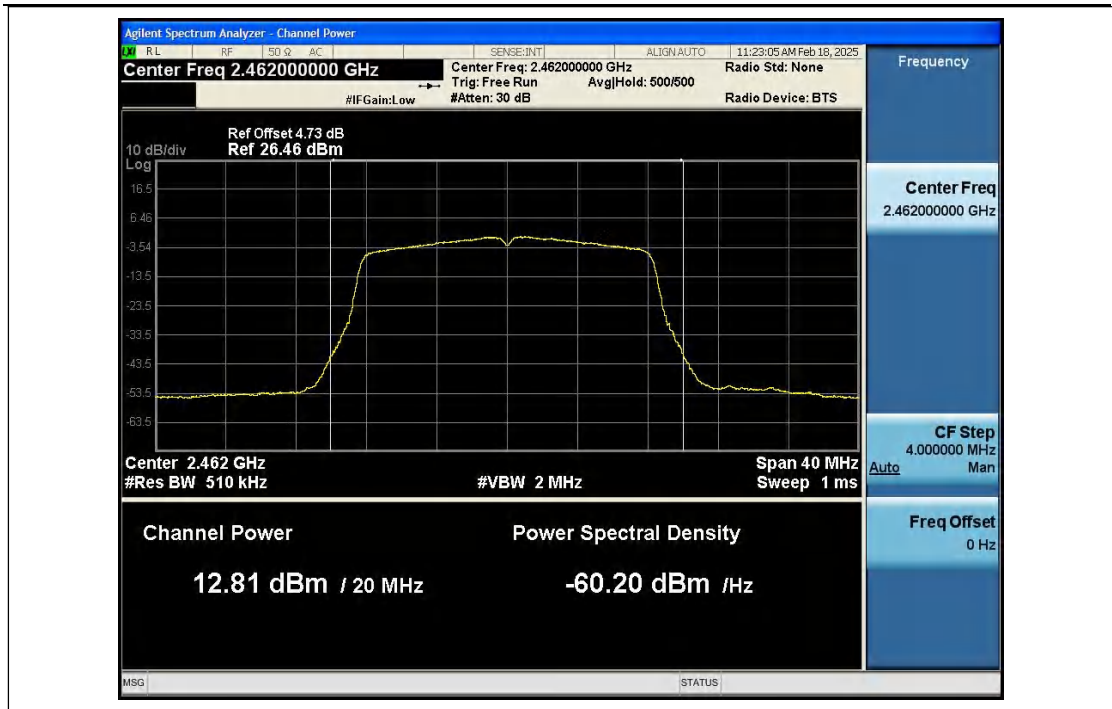
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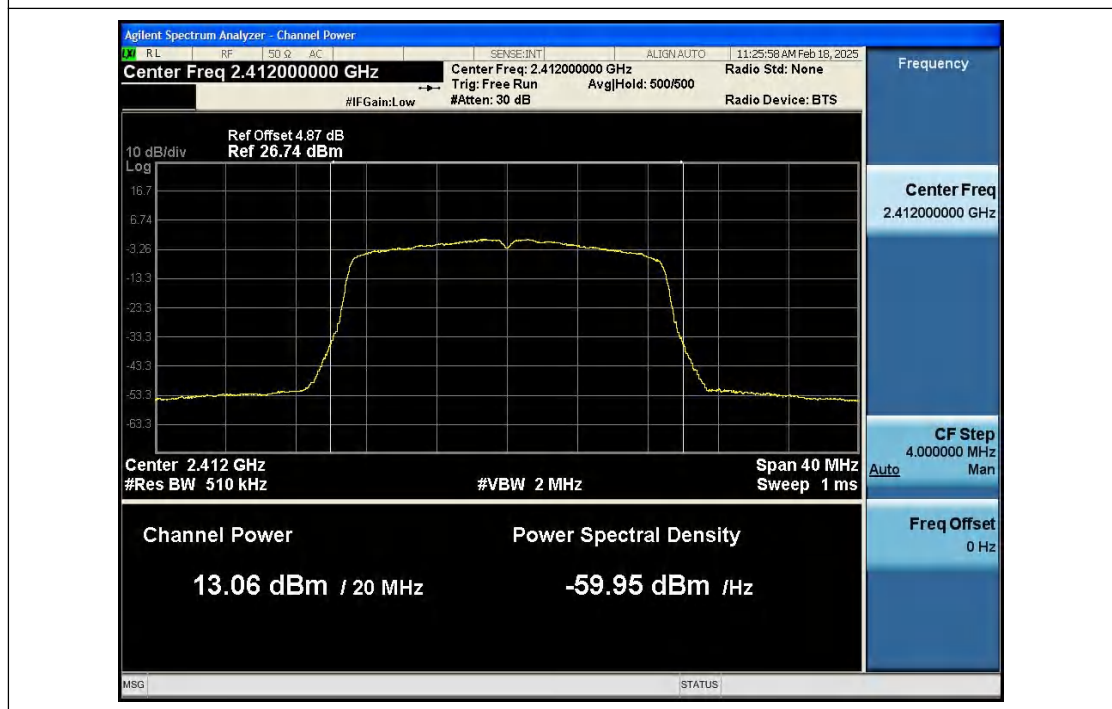
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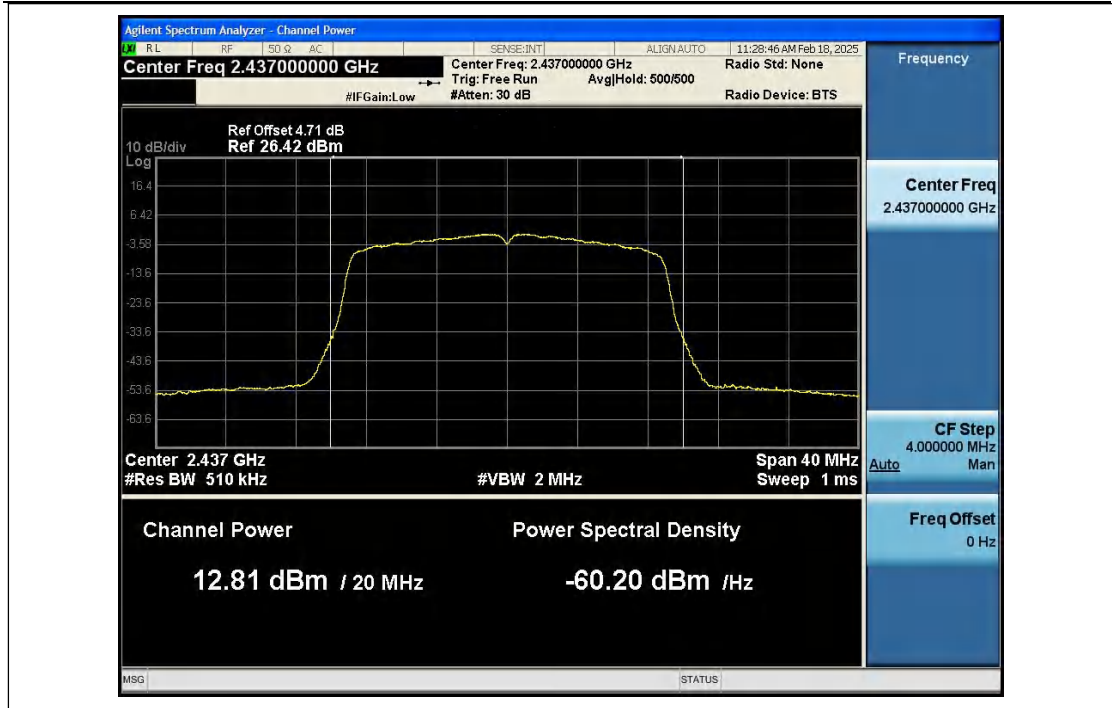
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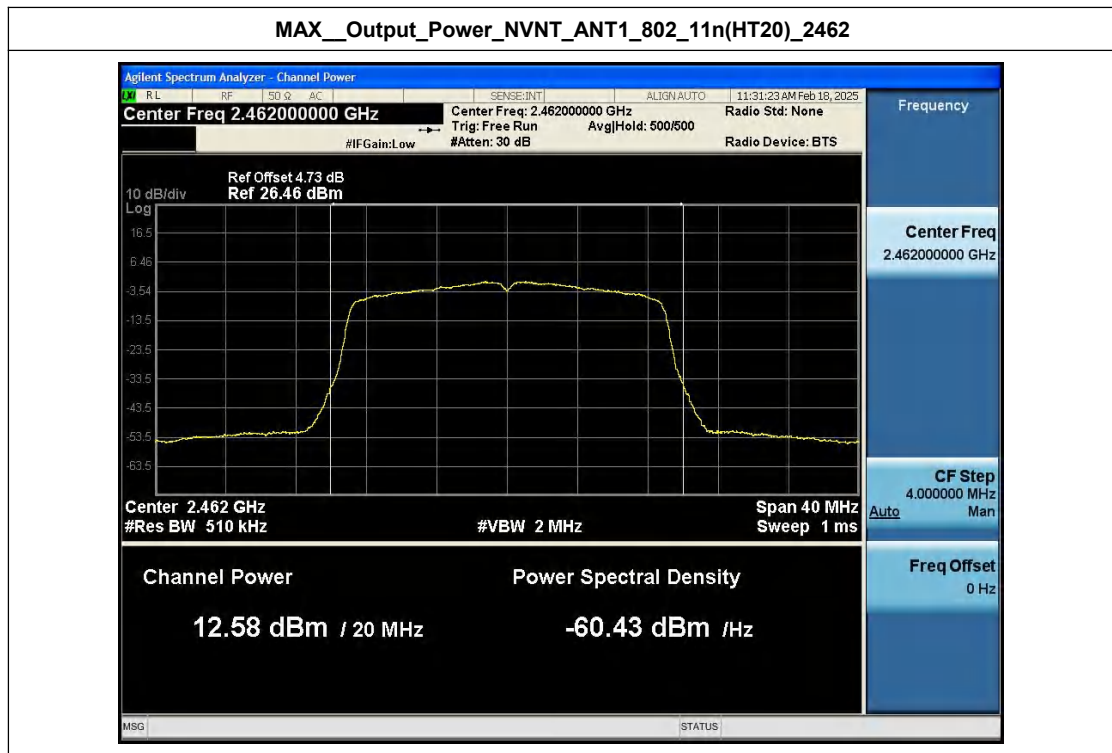
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MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462

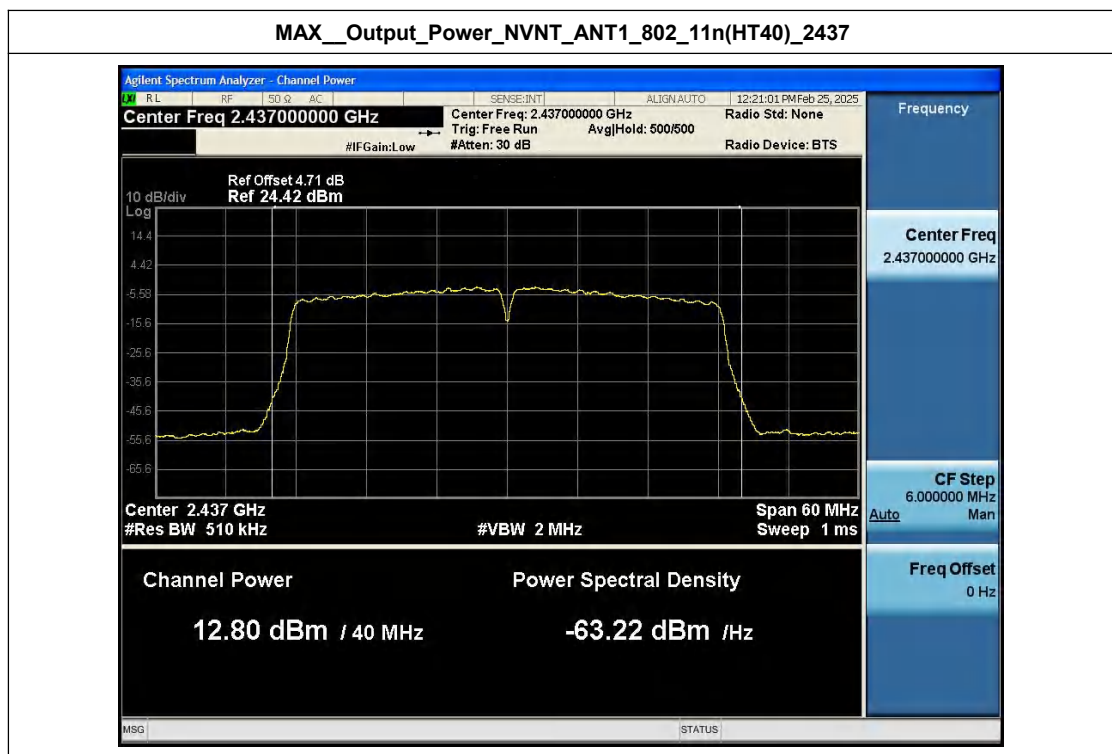


MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422





MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452



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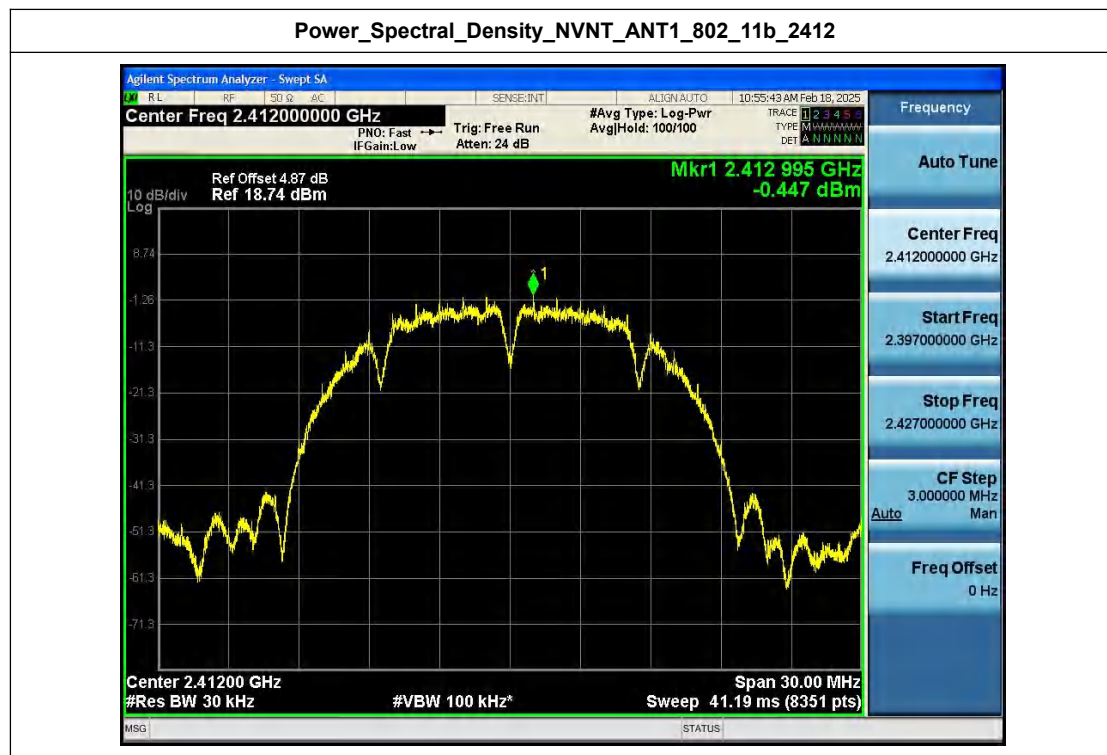
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Appendix E: Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD (dBm/30kHz)	Duty factor (dB)	RB factor (dB)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-0.45	0.00	-10.00	-10.45	8	Pass
NVNT	ANT1	802.11b	2437.00	-0.82	0.00	-10.00	-10.82	8	Pass
NVNT	ANT1	802.11b	2462.00	-1.22	0.00	-10.00	-11.22	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.08	0.00	-10.00	-11.08	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.24	0.00	-10.00	-11.24	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.35	0.00	-10.00	-11.35	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.41	0.00	-10.00	-11.41	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.76	0.00	-10.00	-11.76	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.74	0.00	-10.00	-11.74	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-5.14	0.00	-10.00	-15.14	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-5.46	0.00	-10.00	-15.46	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-6.09	0.00	-10.00	-16.09	8	Pass

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

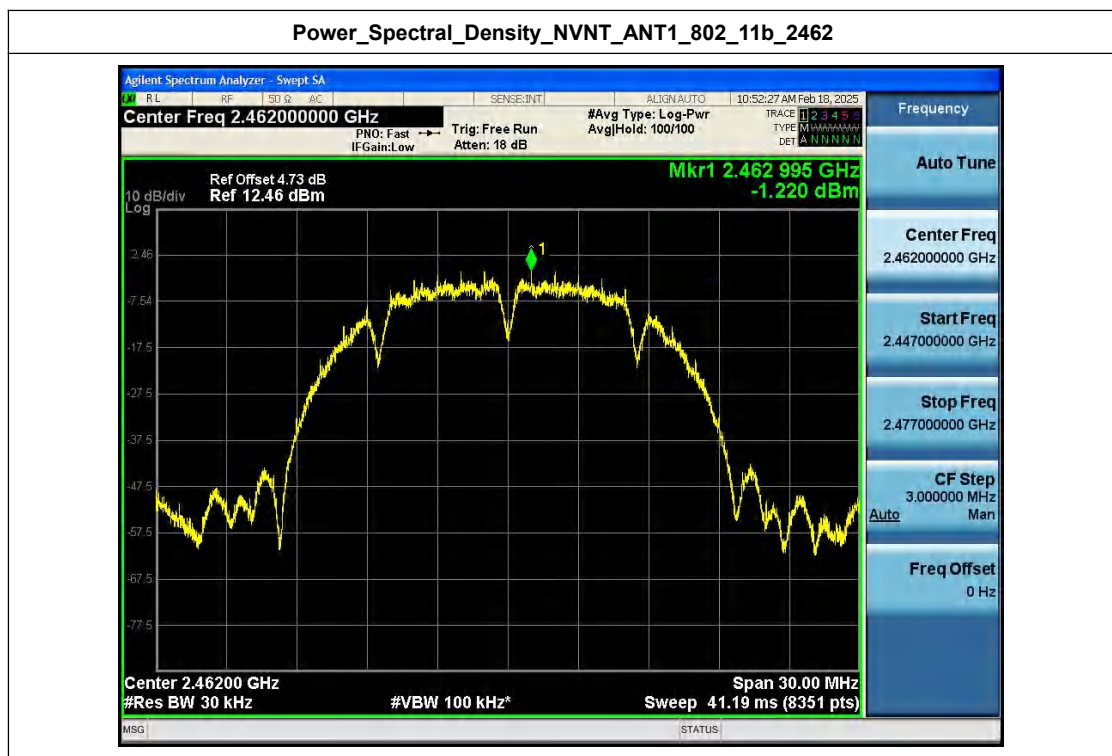
2.PSD(dBm/3kHz)= PSD(dBm/30kHz)- (10*log(30/3)).



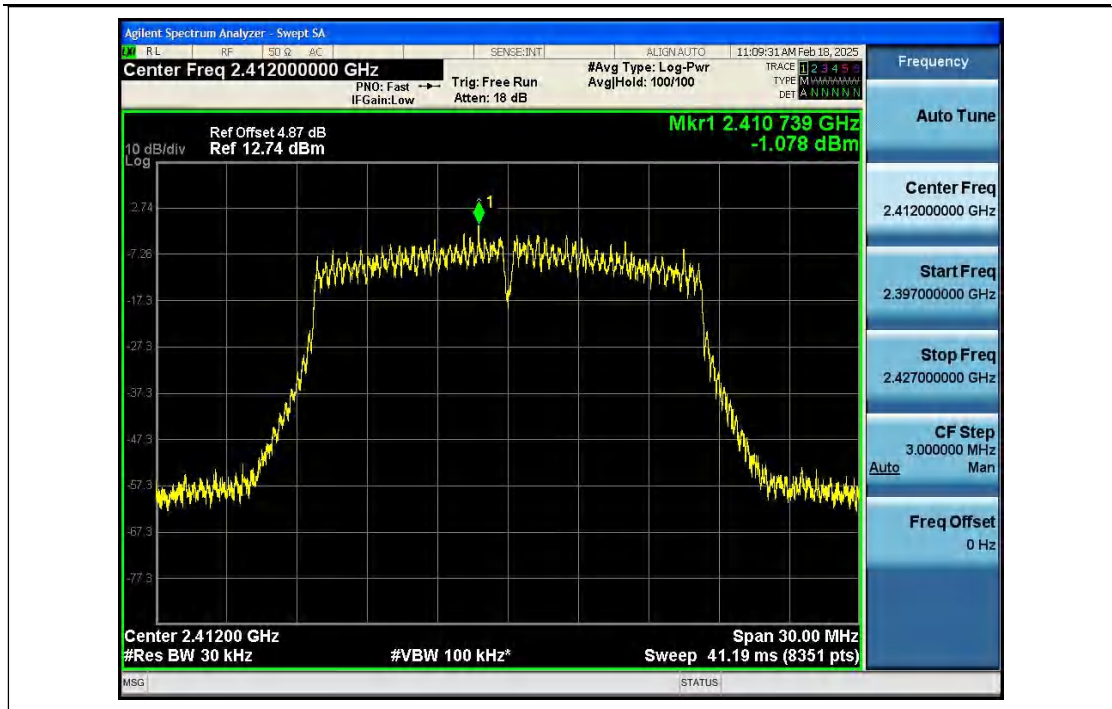
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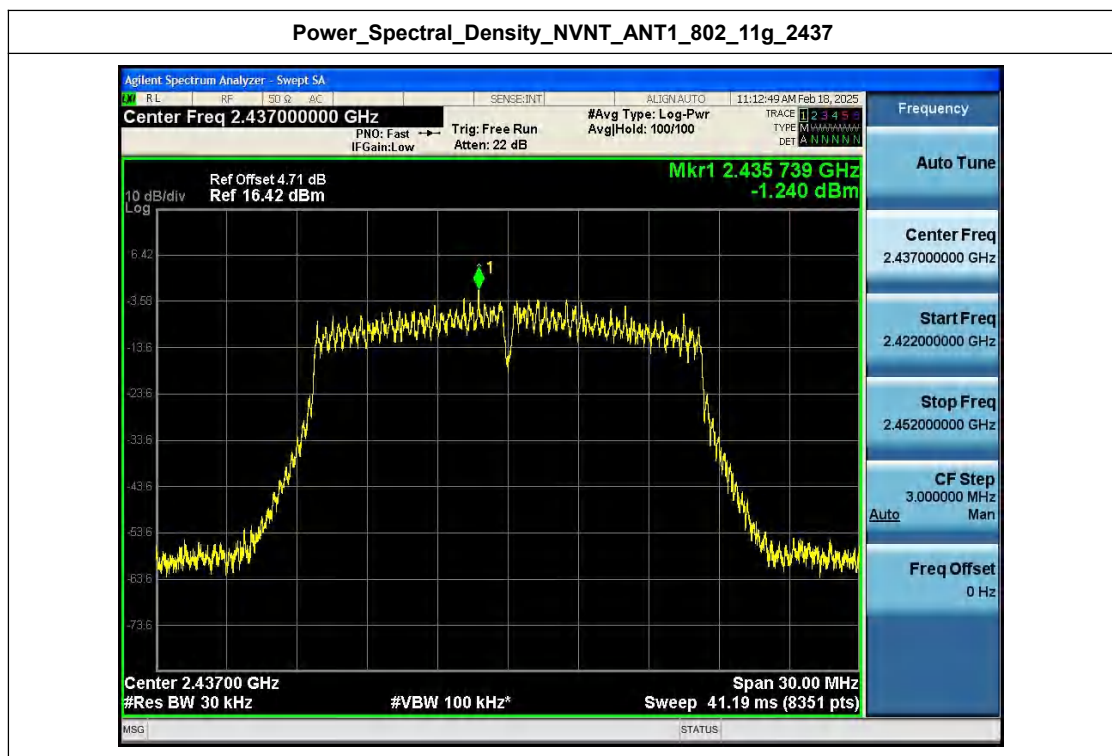
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Power_Spectral_Density_NVNT_ANT1_802_11g_2412



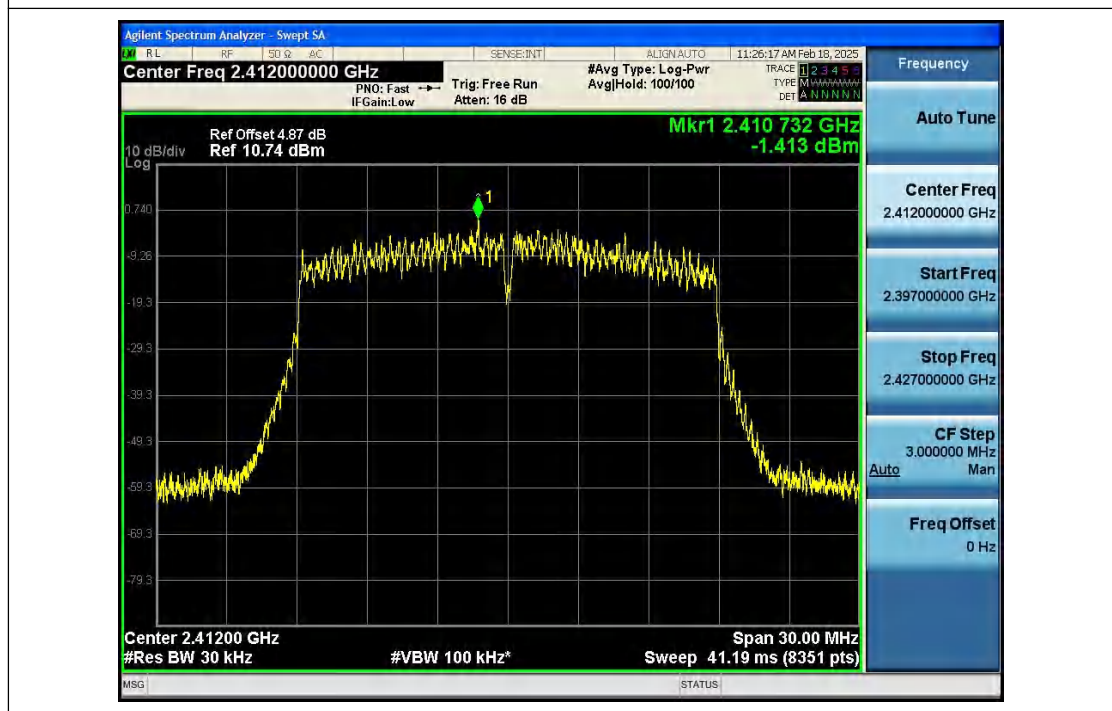
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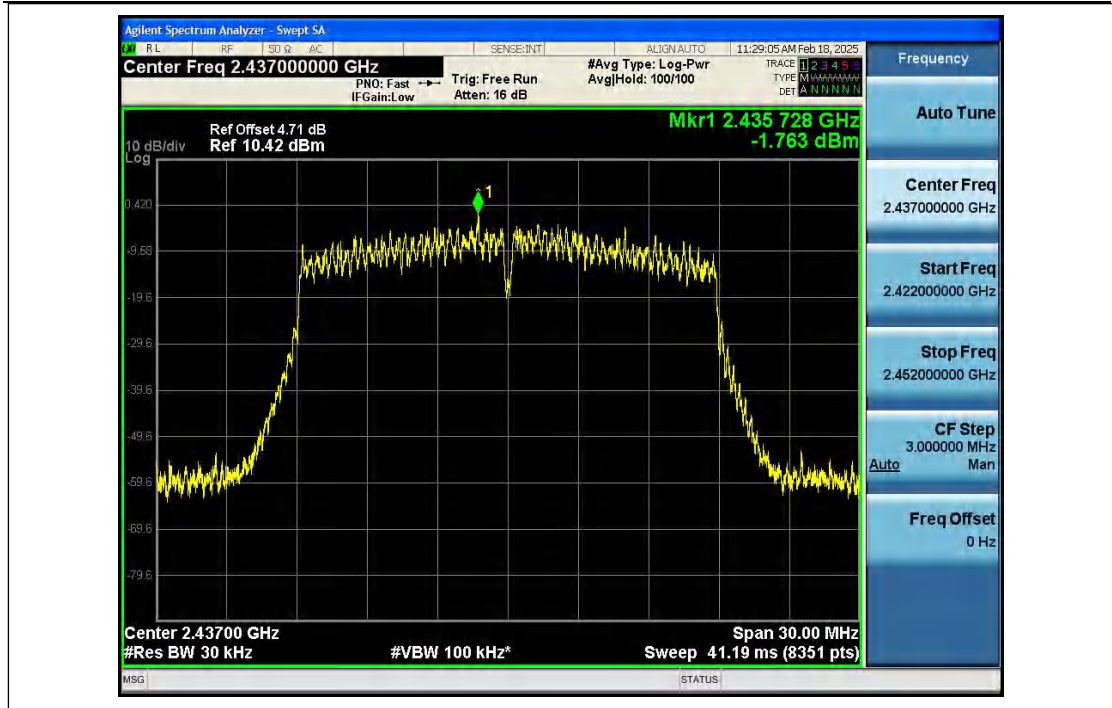
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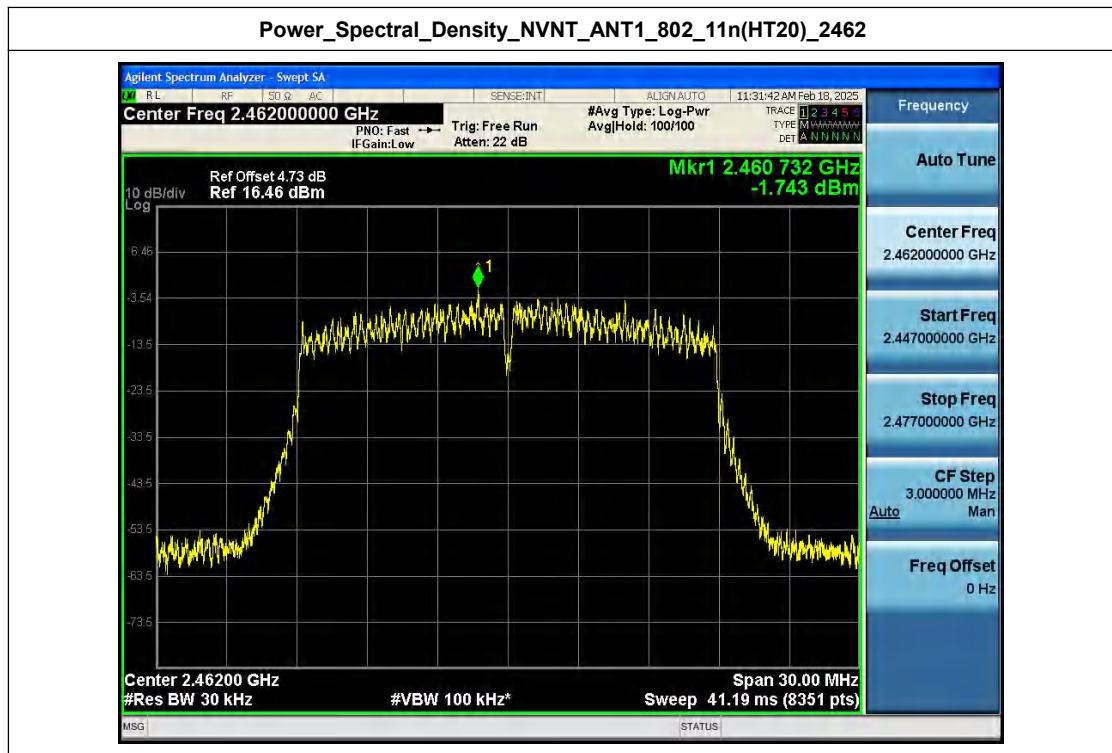
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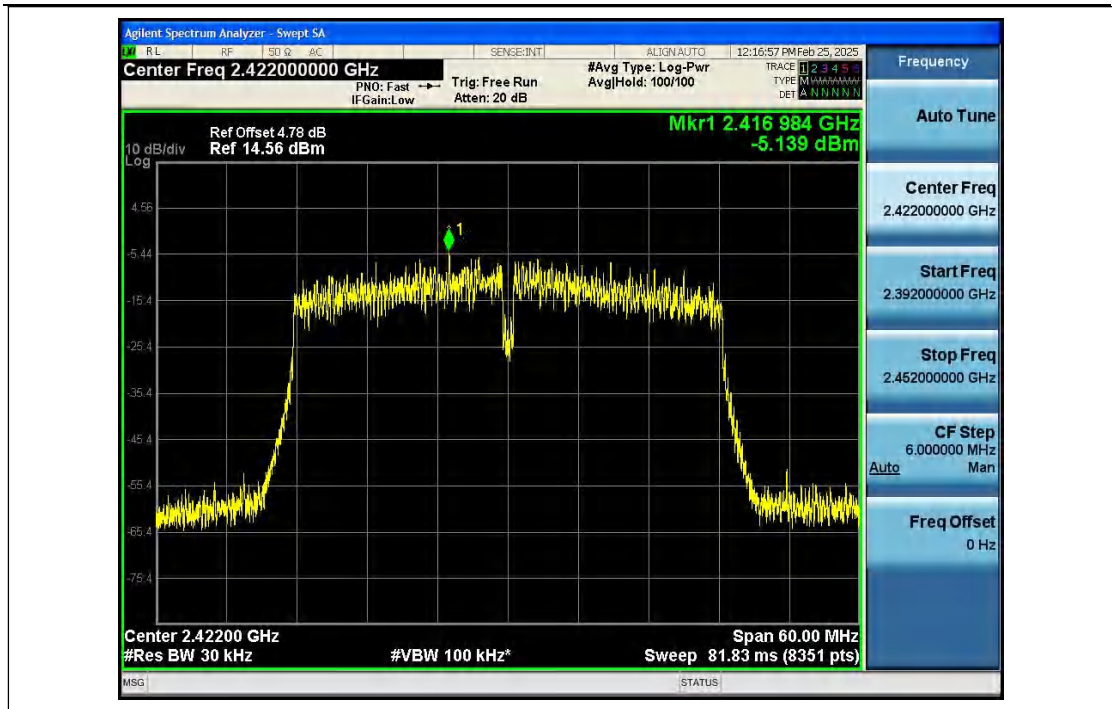
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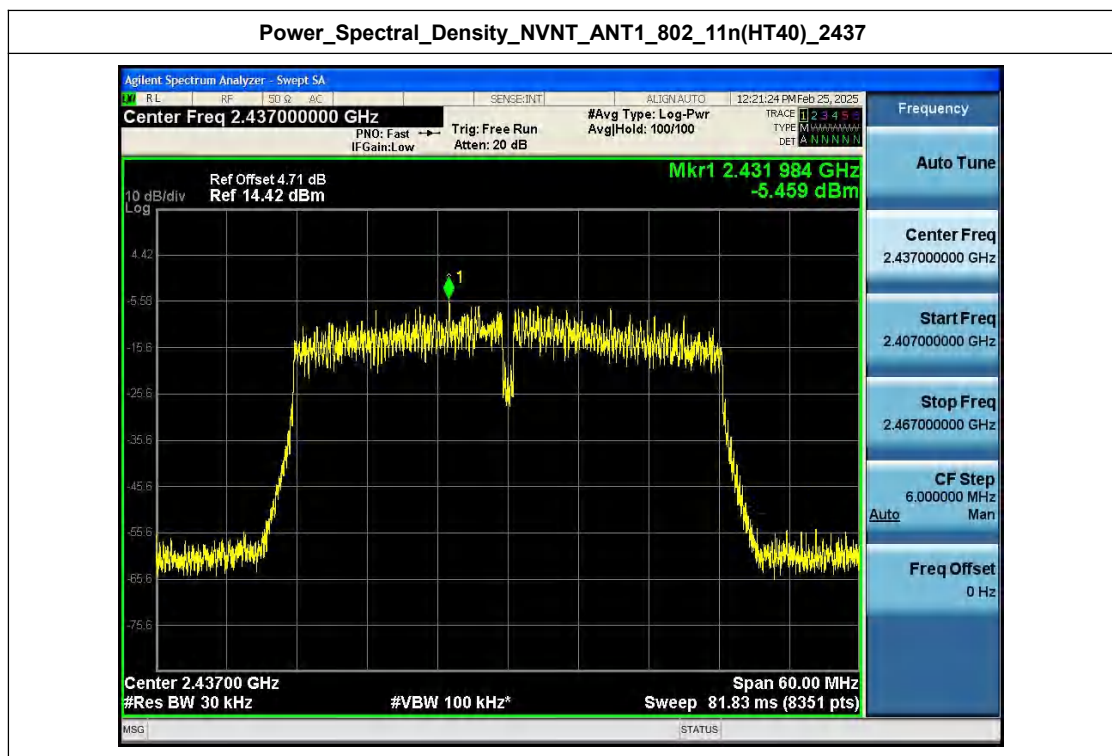
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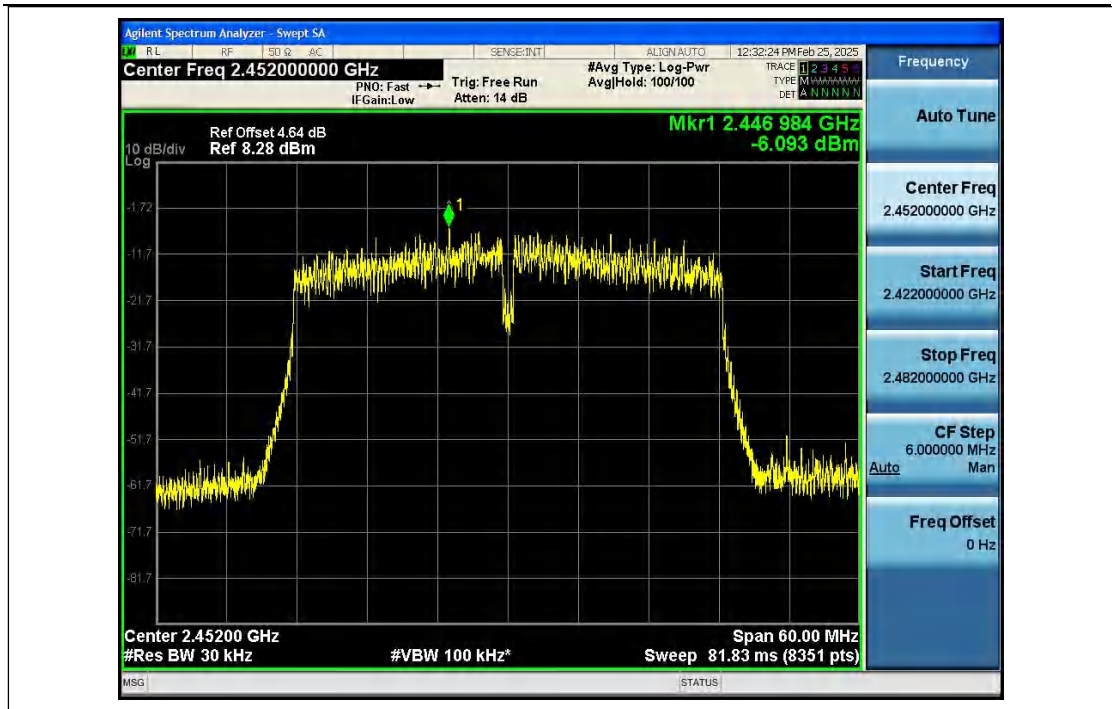
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



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	2399.488	3.636	-42.201	-26.364	Pass
NVNT	ANT1	802.11b	2462.00	2488.000	3.281	-50.784	-26.719	Pass
NVNT	ANT1	802.11g	2412.00	2398.256	3.717	-47.070	-26.283	Pass
NVNT	ANT1	802.11g	2462.00	2486.704	3.086	-51.999	-26.914	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2395.792	3.909	-48.640	-26.091	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.872	2.988	-51.466	-27.012	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.496	0.400	-47.584	-29.600	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-0.071	-47.495	-30.071	Pass

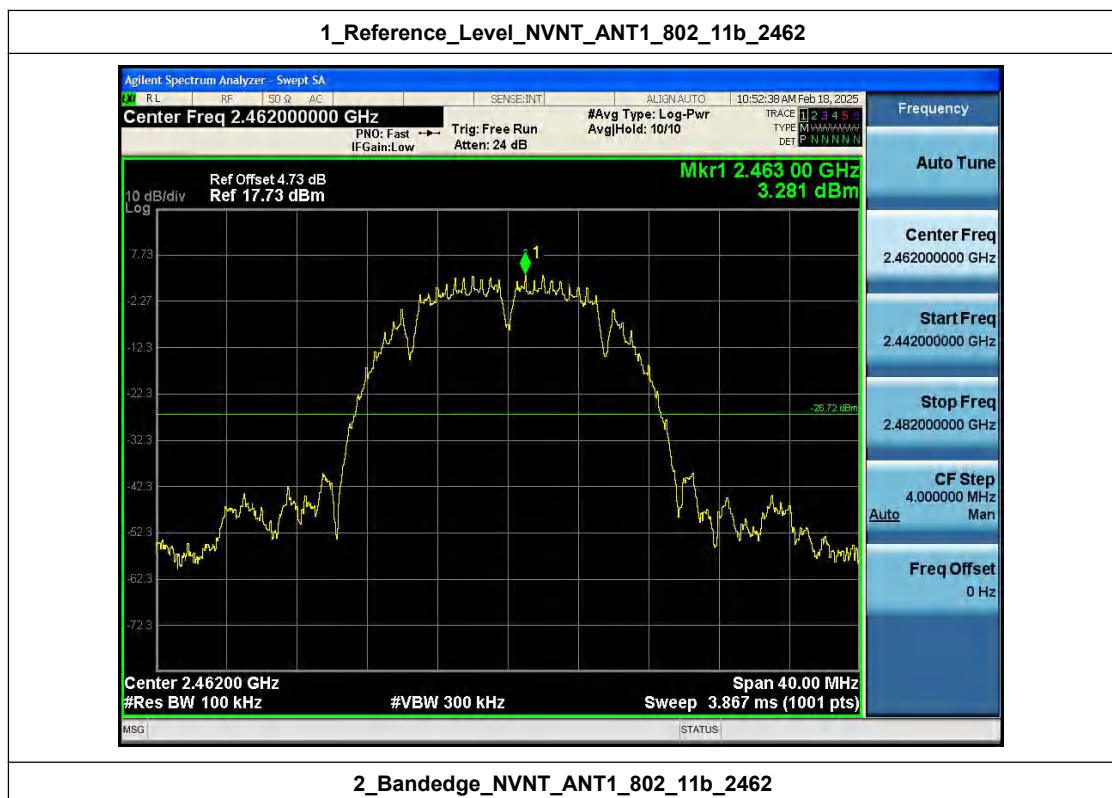
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2_Bandedge_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2462



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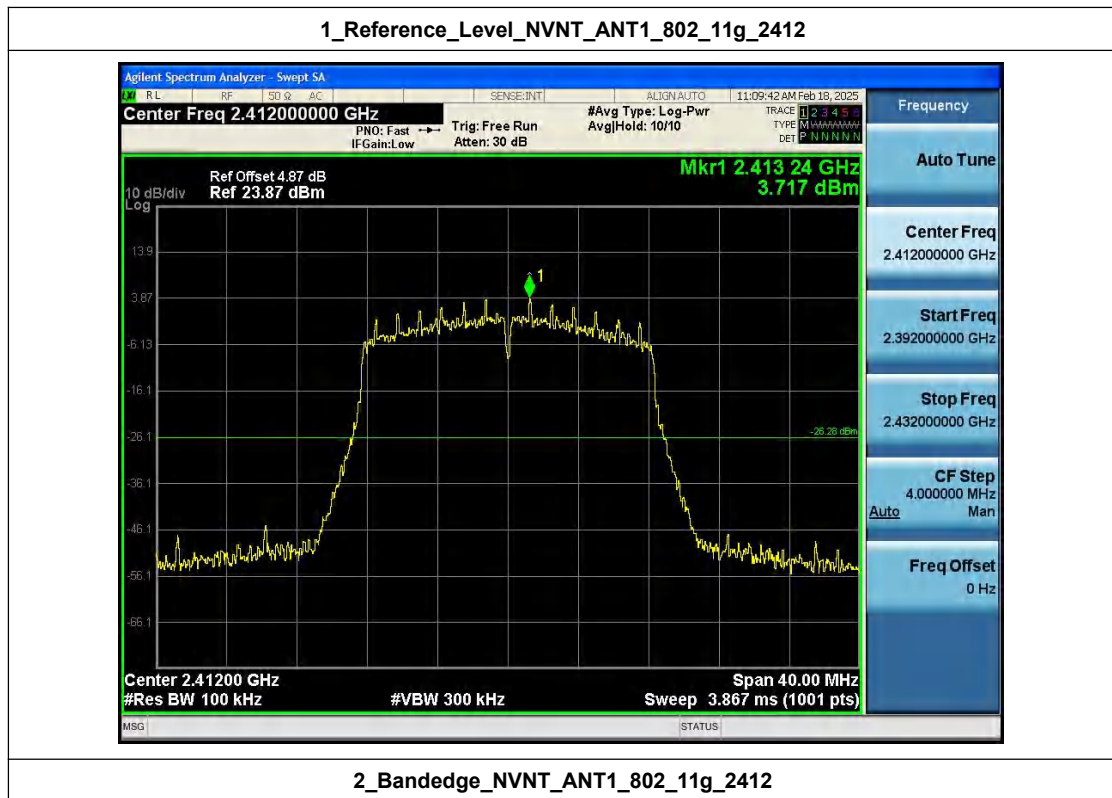
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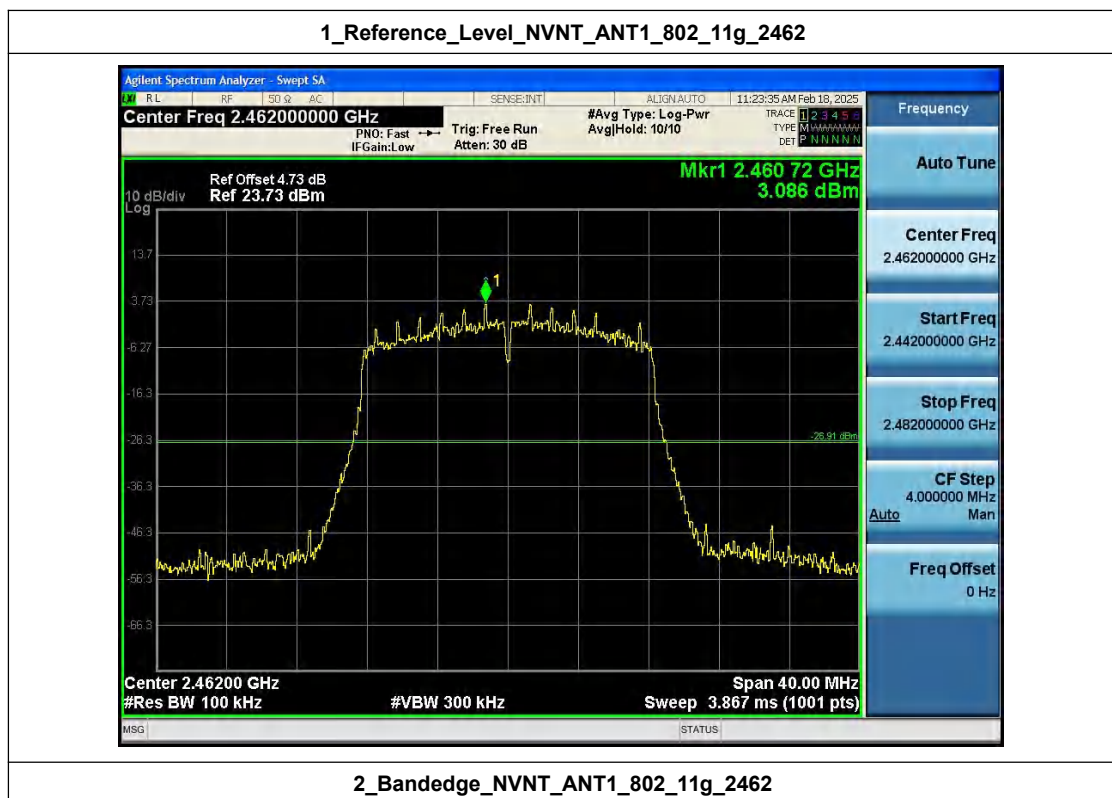
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2_Bandedge_NVNT_ANT1_802_11g_2412



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2_Bandedge_NVNT_ANT1_802_11g_2462

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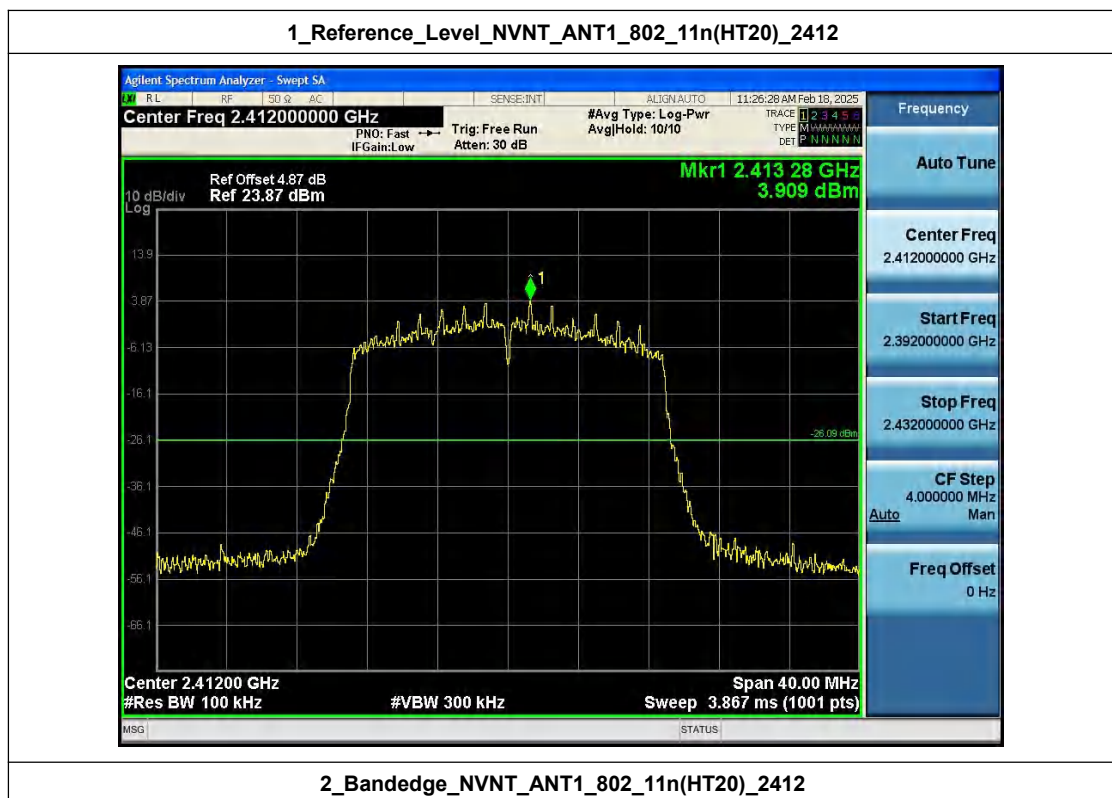
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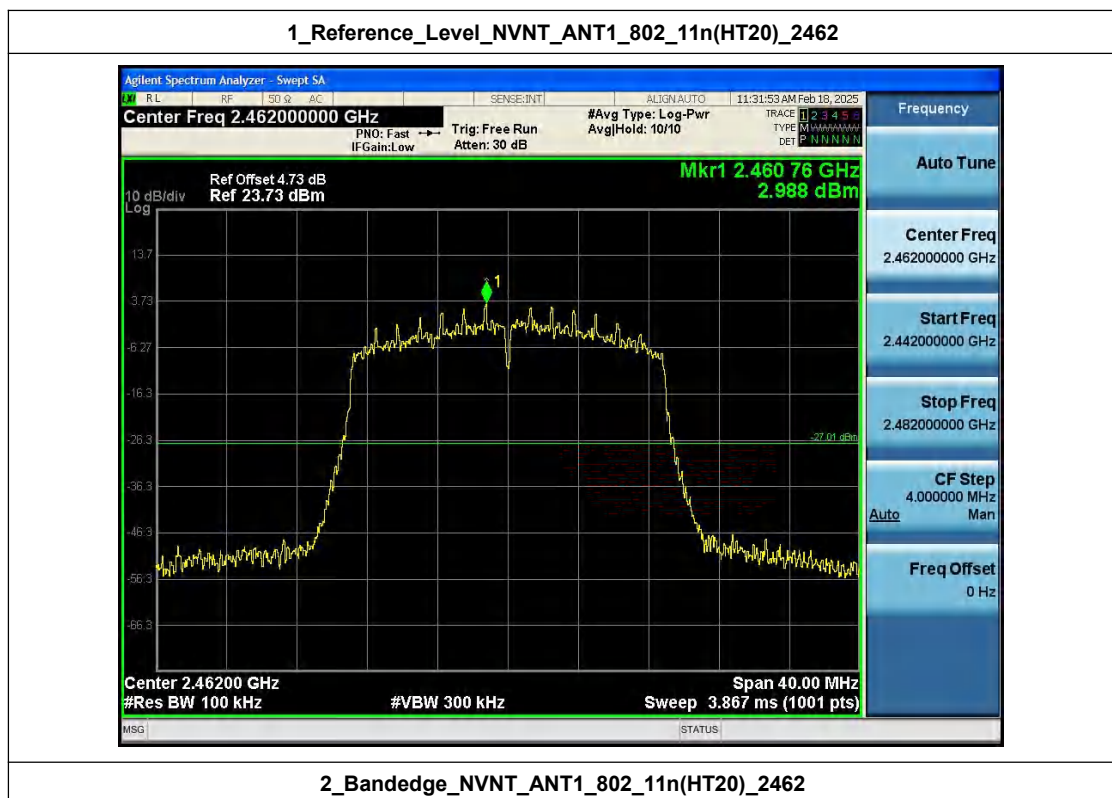
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

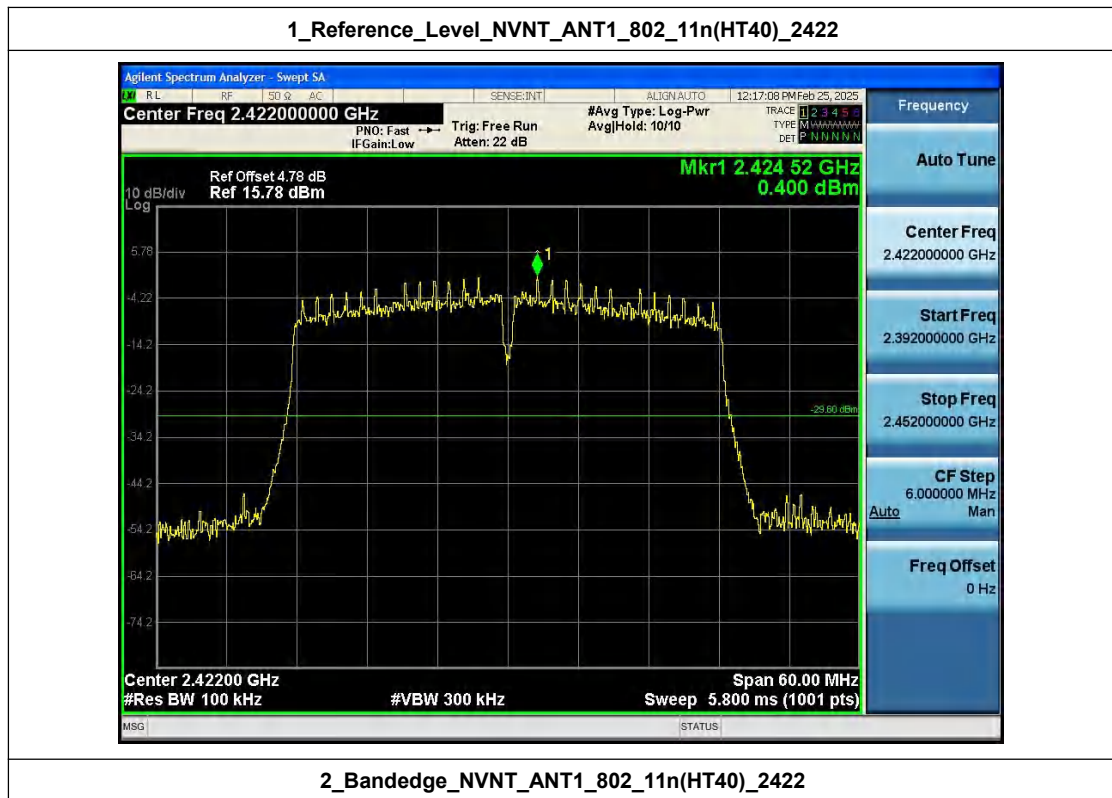


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462





1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

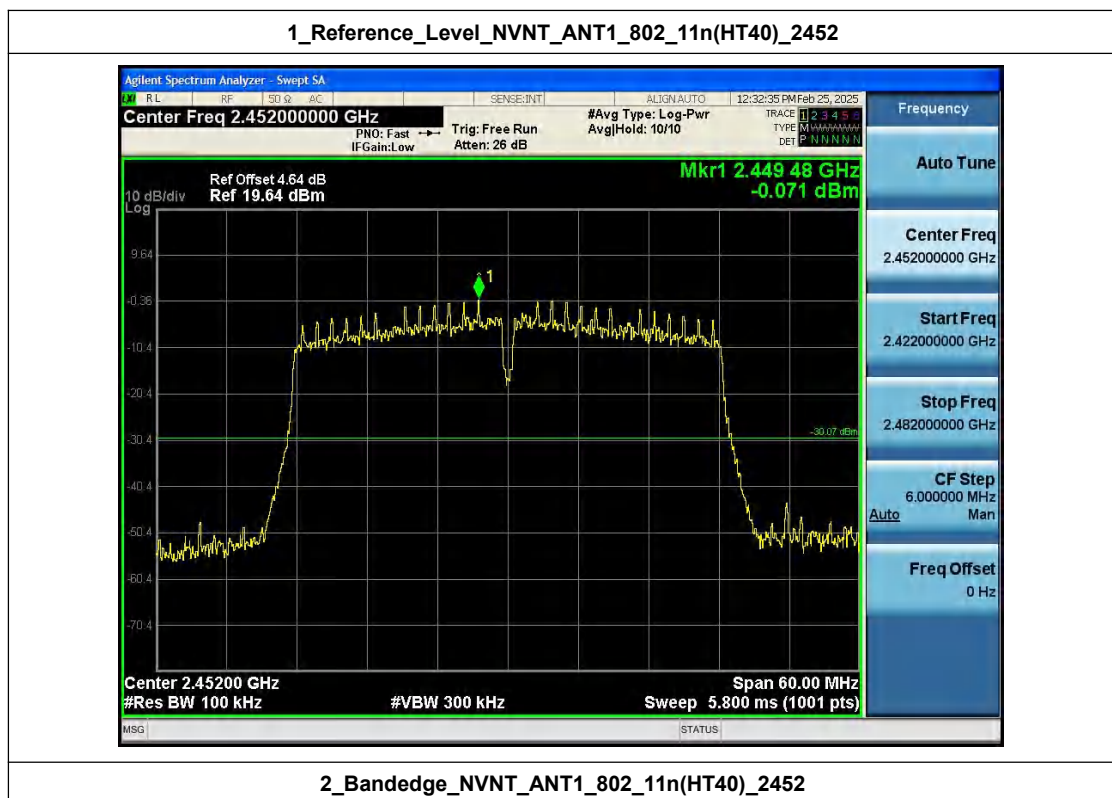


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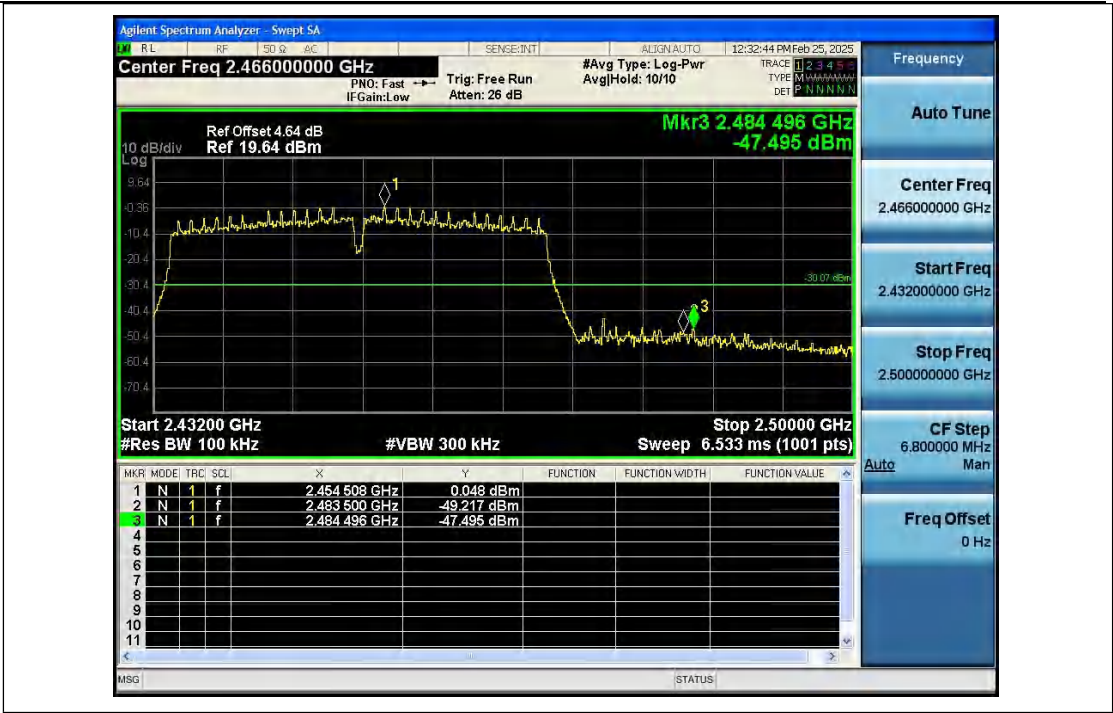




1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



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	24815.222	3.636	-44.524	-26.364	Pass
NVNT	ANT1	802.11b	2437.00	24790.252	3.385	-45.027	-26.615	Pass
NVNT	ANT1	802.11b	2462.00	24790.252	3.281	-49.351	-26.719	Pass
NVNT	ANT1	802.11g	2412.00	24865.162	3.717	-44.516	-26.283	Pass
NVNT	ANT1	802.11g	2437.00	24842.689	3.559	-45.270	-26.441	Pass
NVNT	ANT1	802.11g	2462.00	24940.072	3.086	-44.702	-26.914	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24328.307	3.909	-44.353	-26.091	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24737.815	3.481	-45.481	-26.519	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24882.641	2.988	-44.456	-27.012	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24852.677	0.400	-51.358	-29.600	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24875.150	0.167	-50.636	-29.833	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24867.659	-0.071	-47.063	-30.071	Pass

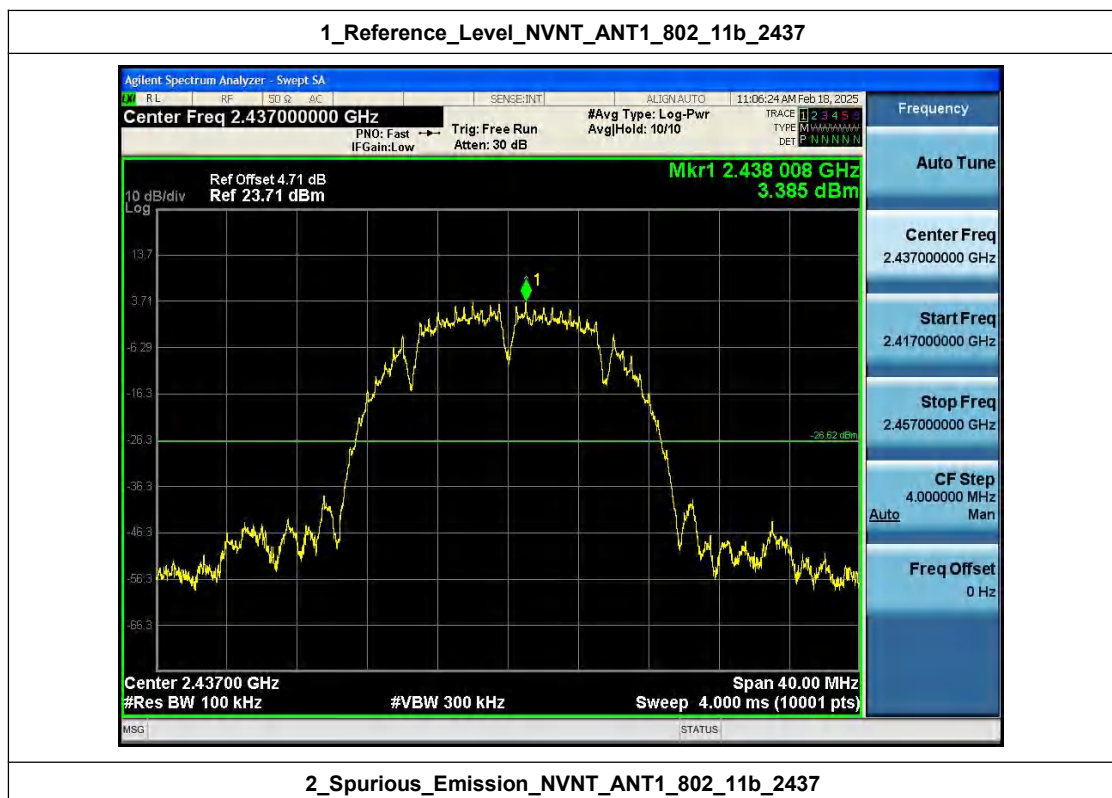
1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437

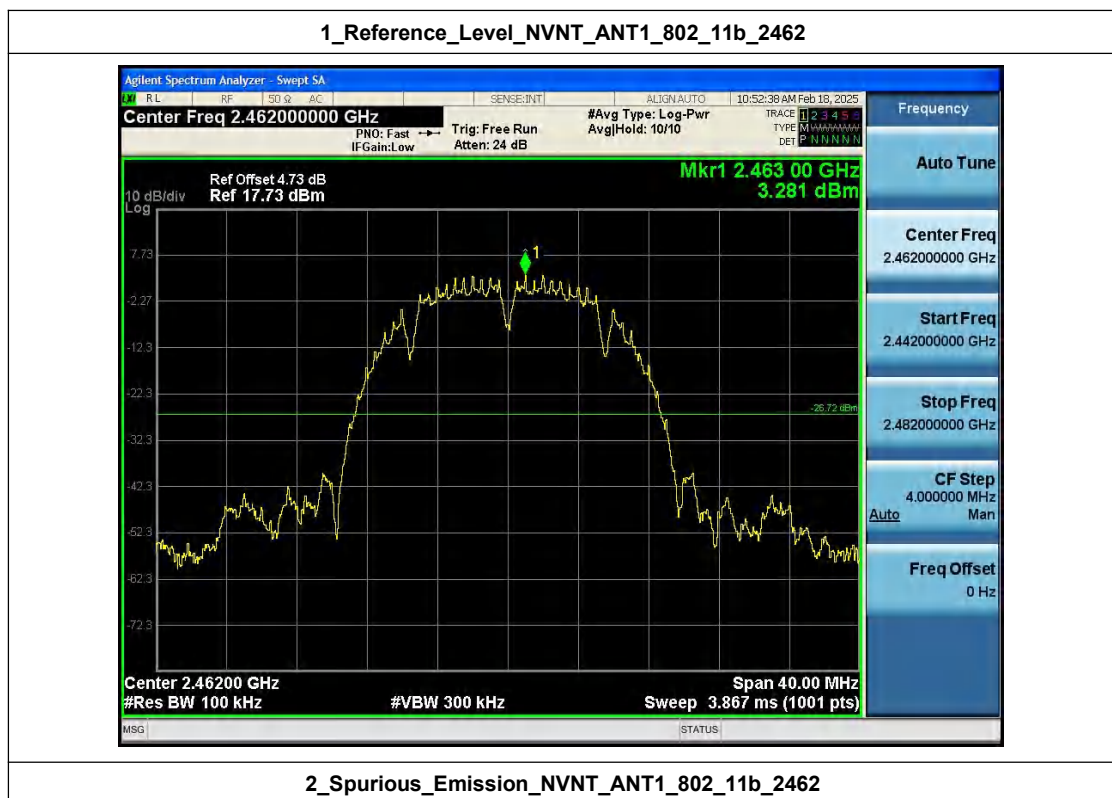


2_Spurious_Emission_NVNT_ANT1_802_11b_2437





1_Reference_Level_NVNT_ANT1_802_11b_2462



2_Spurious_Emission_NVNT_ANT1_802_11b_2462

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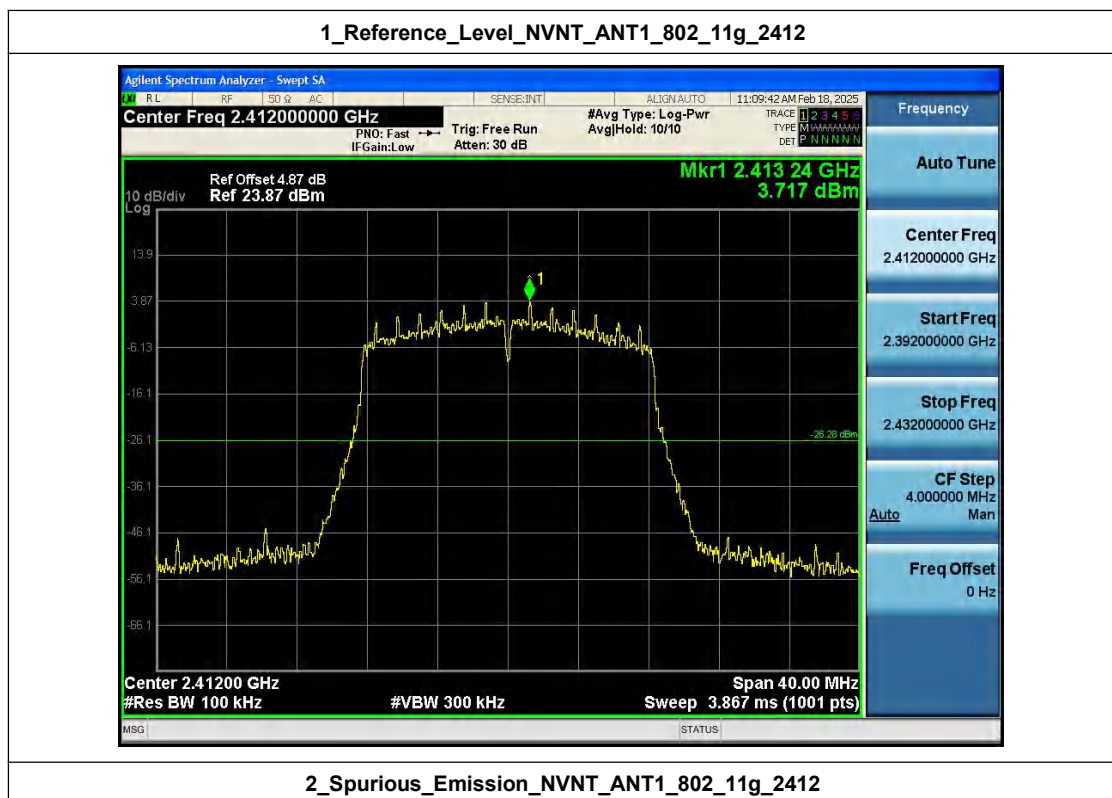
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1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Spurious_Emission_NVNT_ANT1_802_11g_2412

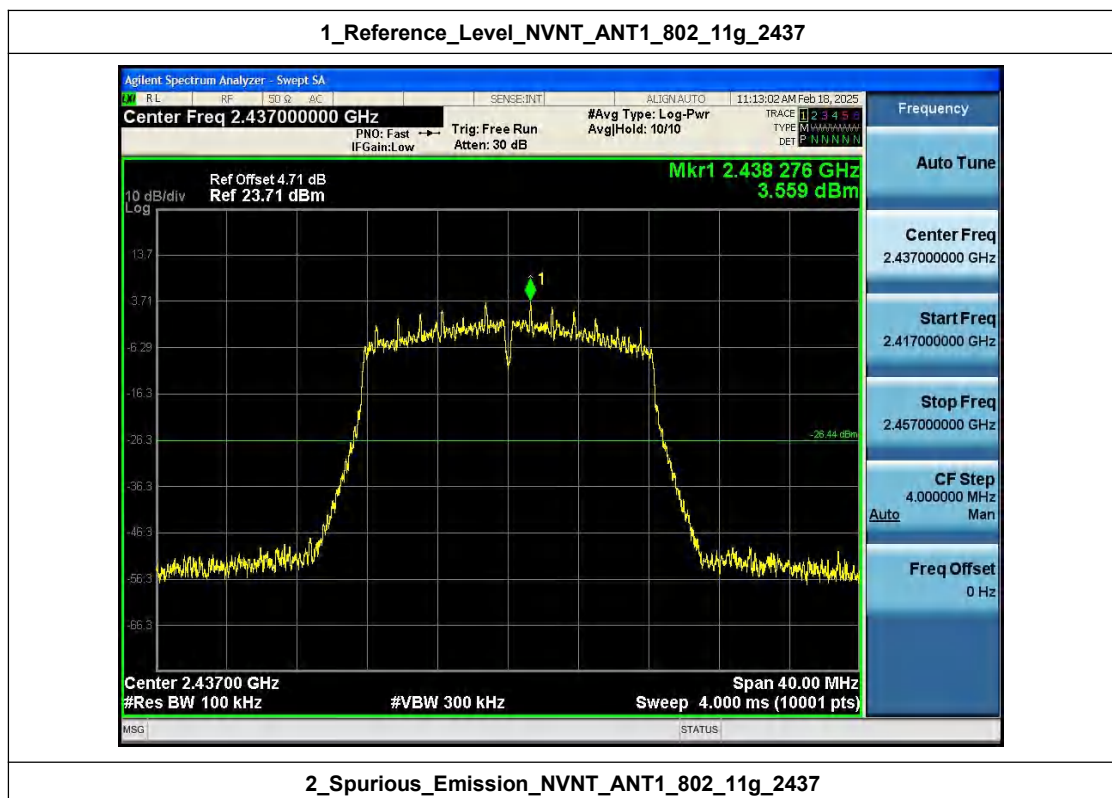
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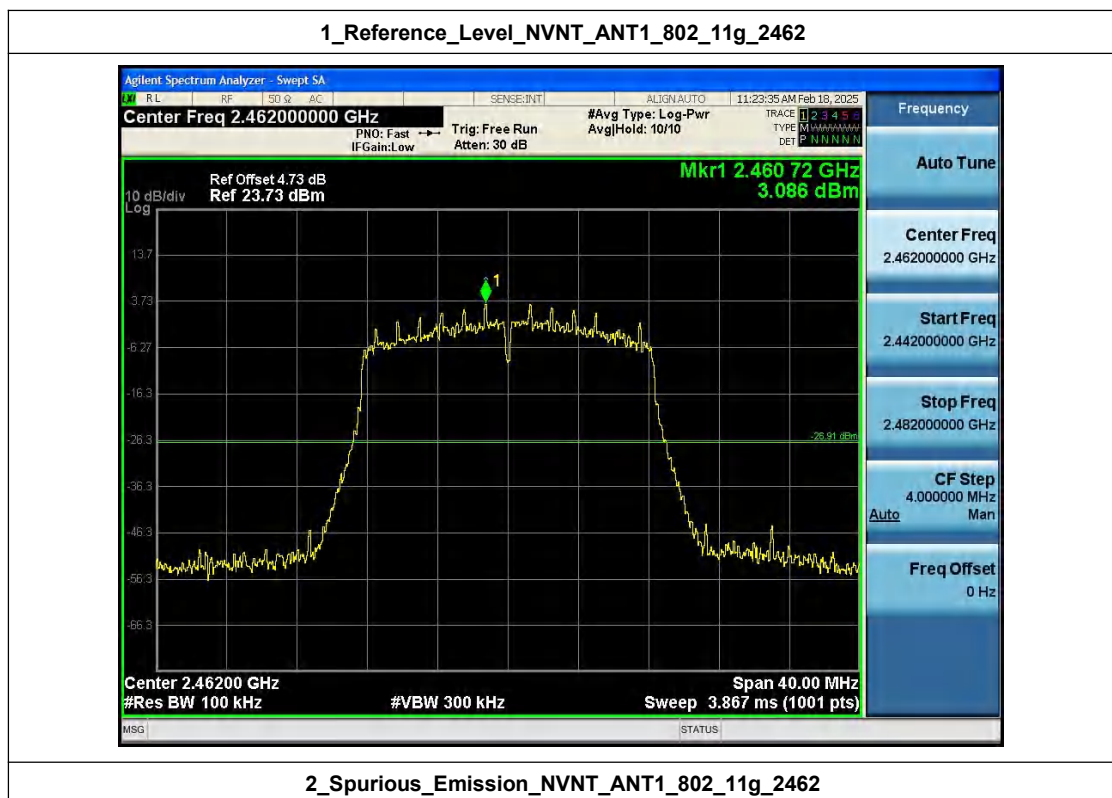
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2_Spurious_Emission_NVNT_ANT1_802_11g_2437



1_Reference_Level_NVNT_ANT1_802_11g_2462

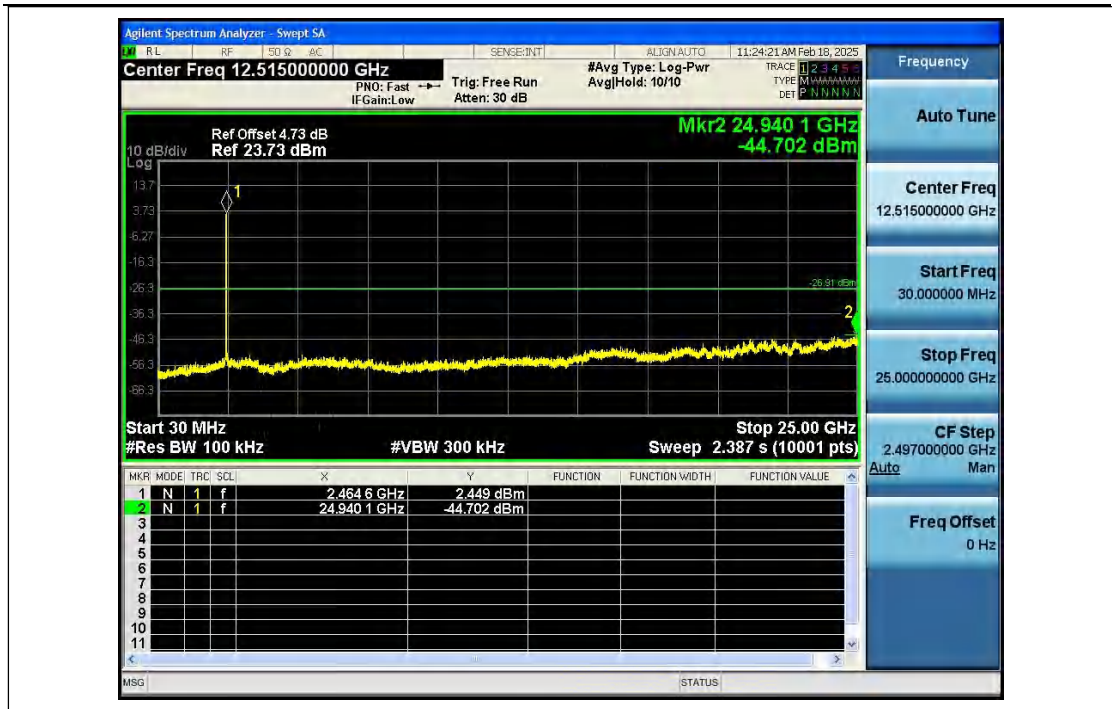


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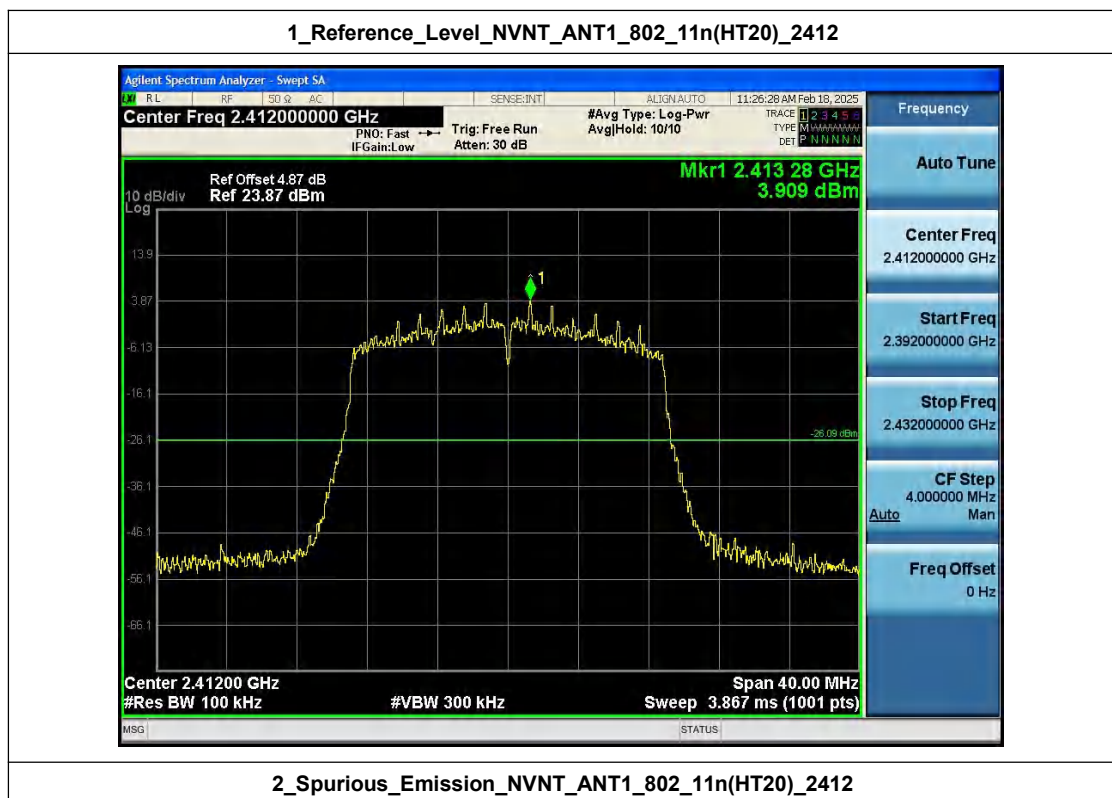
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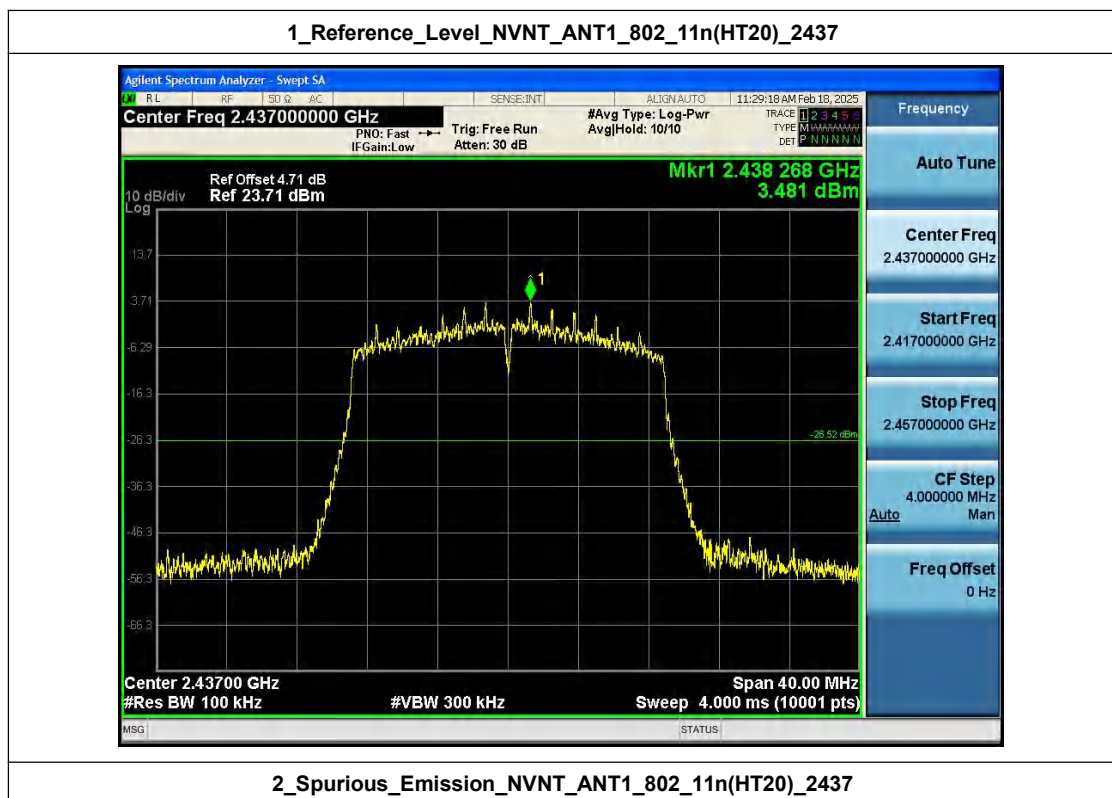
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437

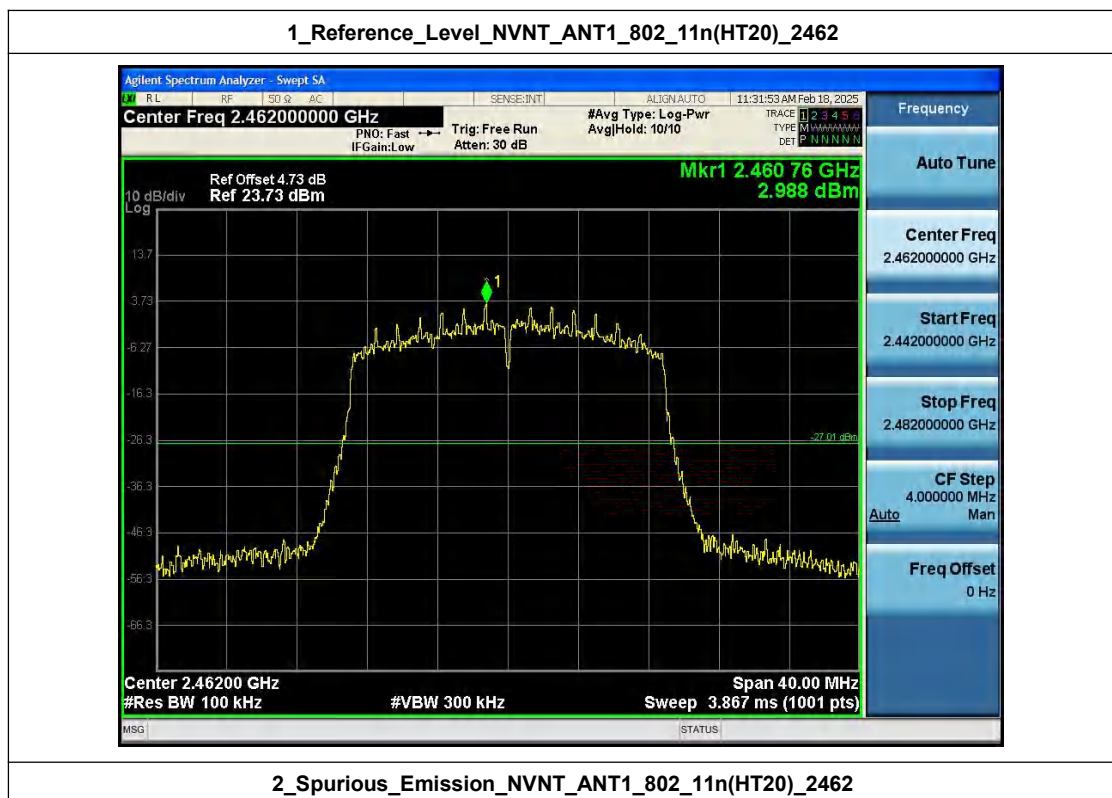


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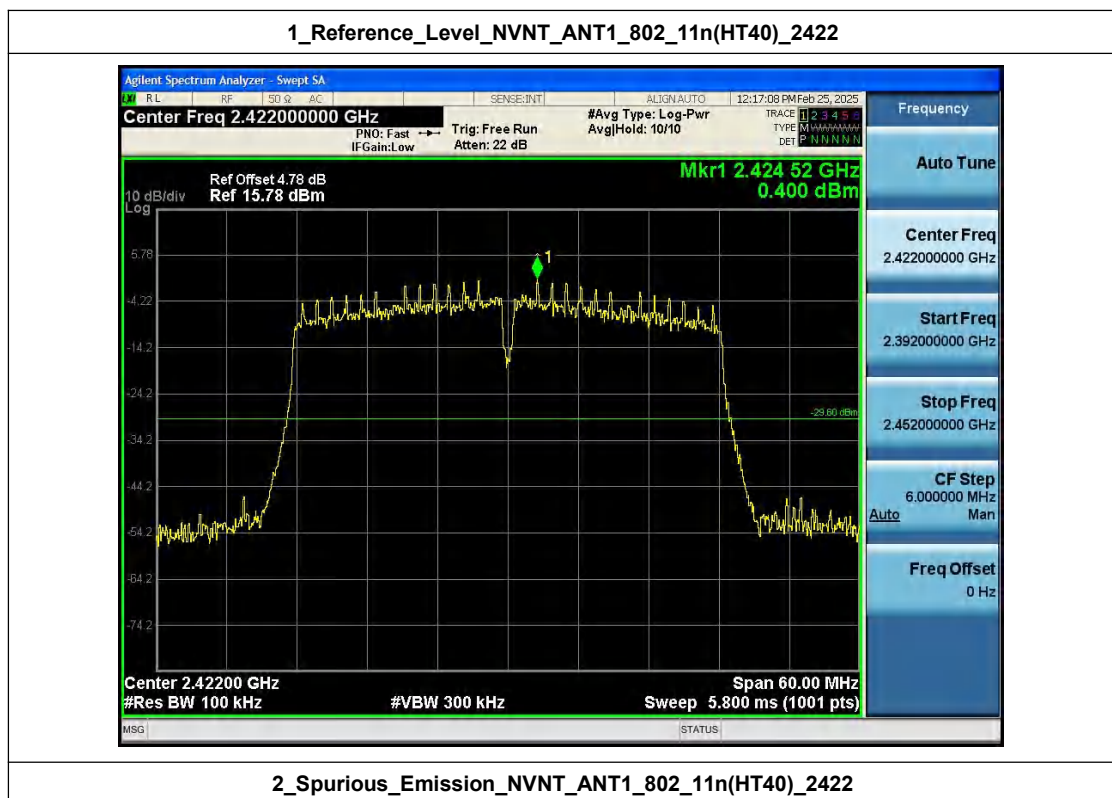
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2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



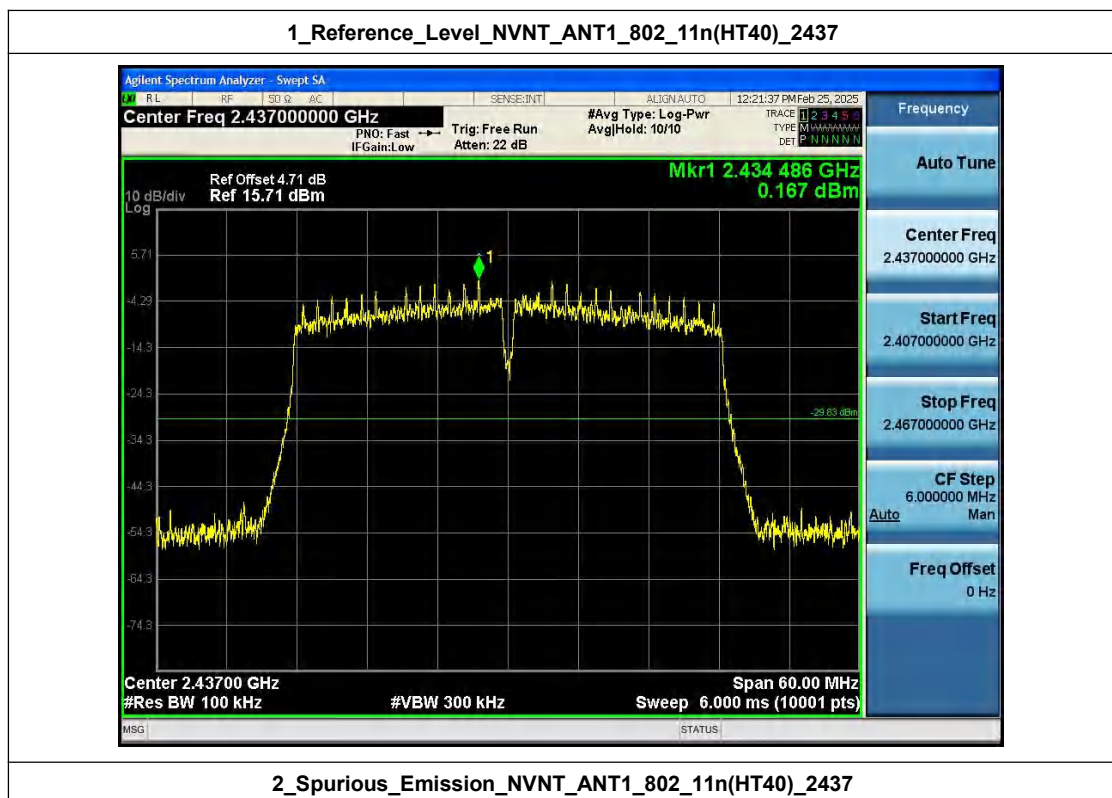
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2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



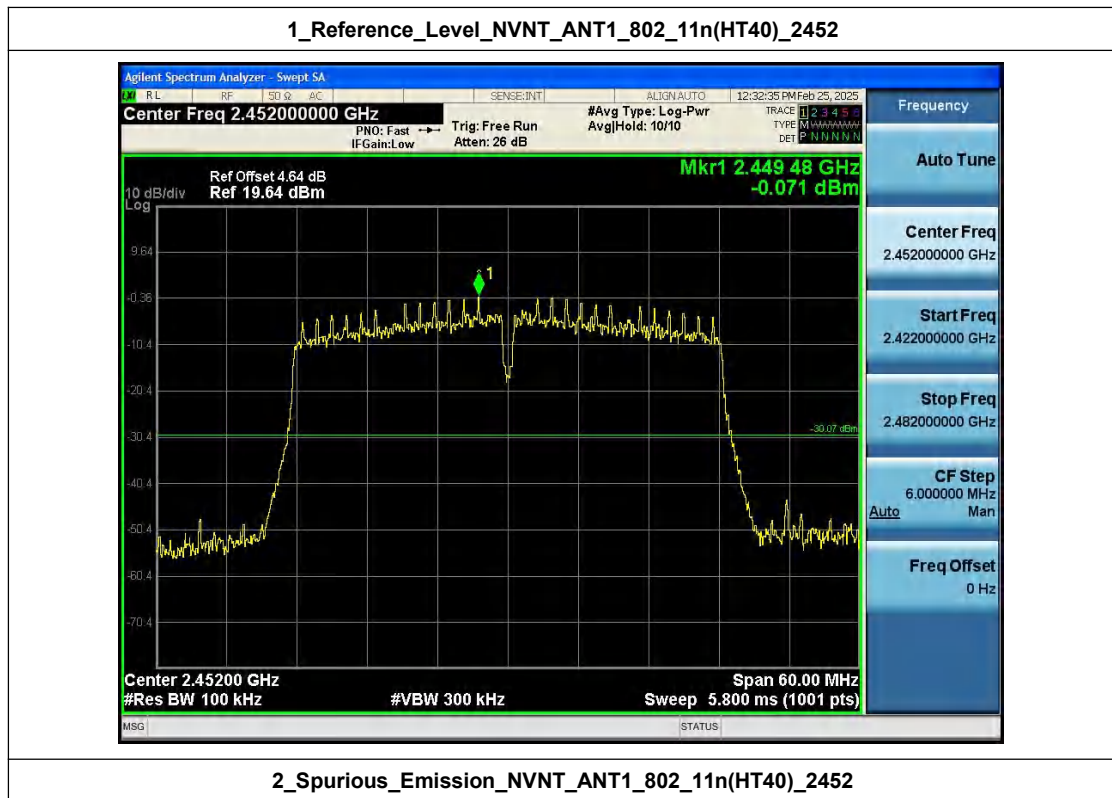
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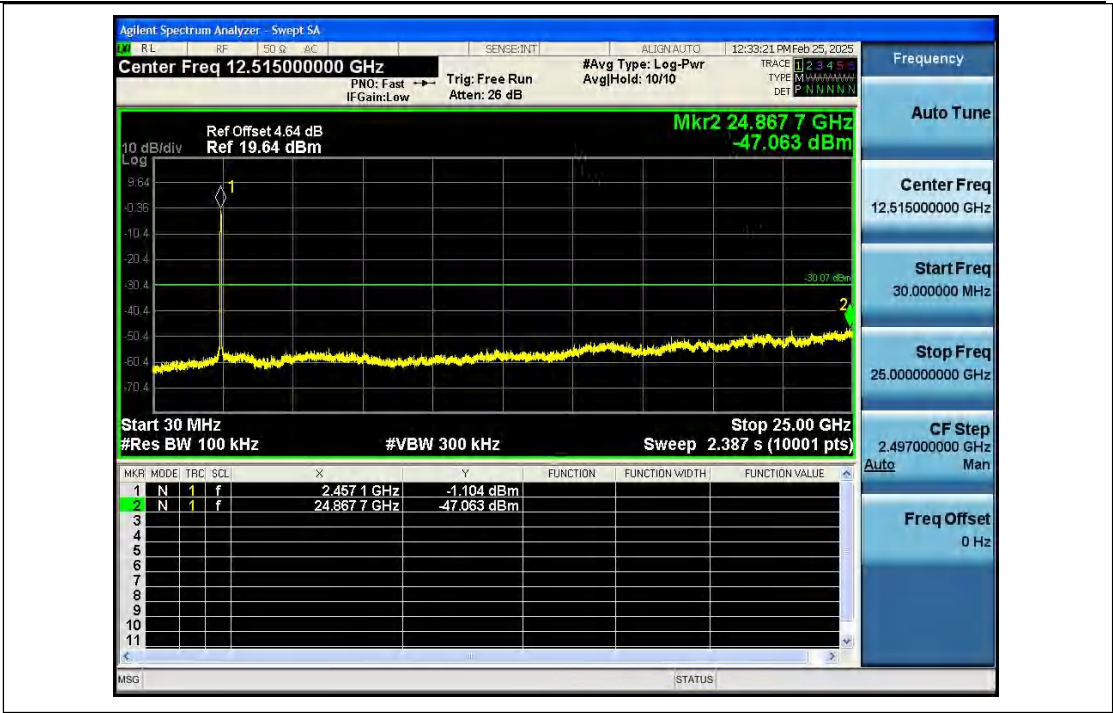


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452





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