

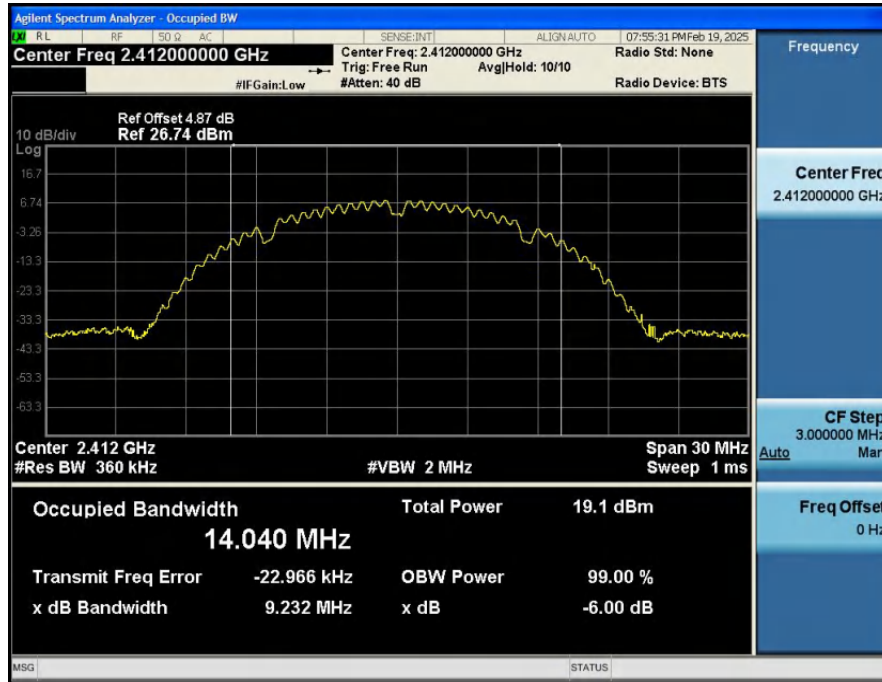
Appendix Test Data

Report No.:	1812C50010012502	Test Sample No.:	1-2-2
Start Test Date:	2025.2.17	Finish Test Date:	2025.2.19
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.3°C	Relative Humidity:	40%
Pressure:	101kPa		

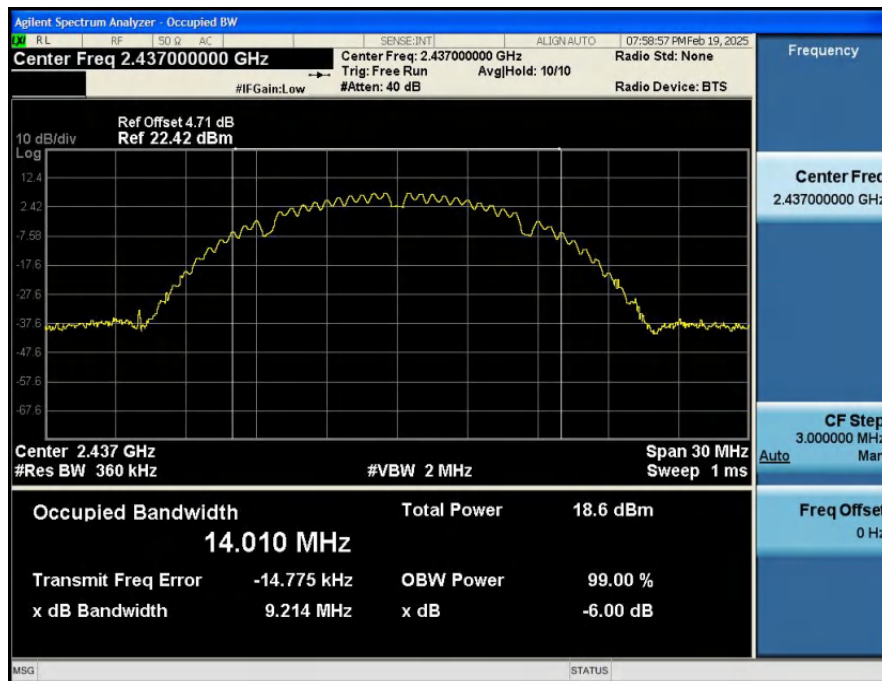
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.23	500	Pass
NVNT	ANT1	802.11b	2437.00	9.21	500	Pass
NVNT	ANT1	802.11b	2462.00	9.22	500	Pass
NVNT	ANT1	802.11g	2412.00	16.38	500	Pass
NVNT	ANT1	802.11g	2437.00	16.42	500	Pass
NVNT	ANT1	802.11g	2462.00	16.45	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.63	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.69	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.59	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



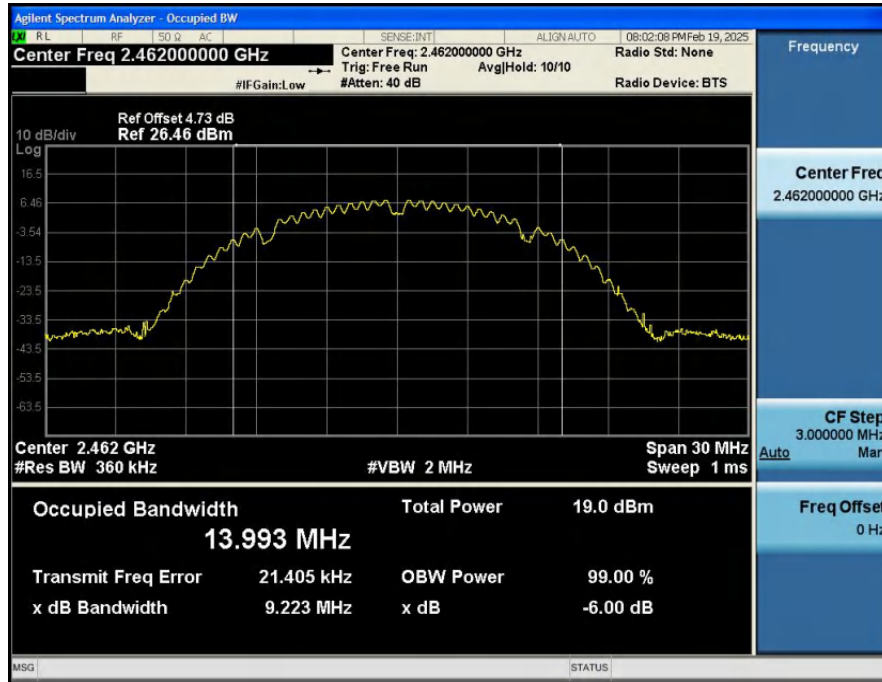
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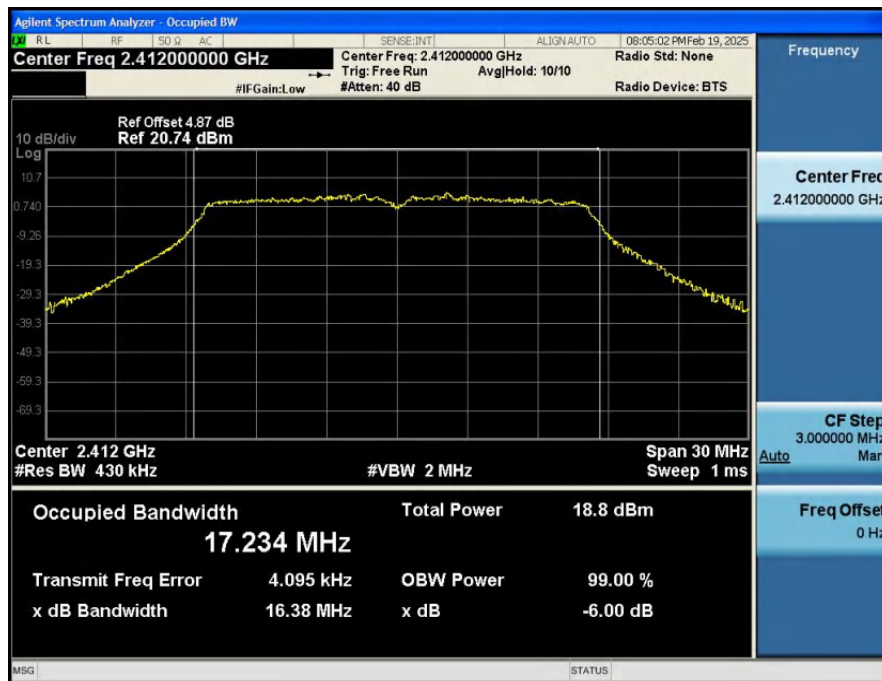


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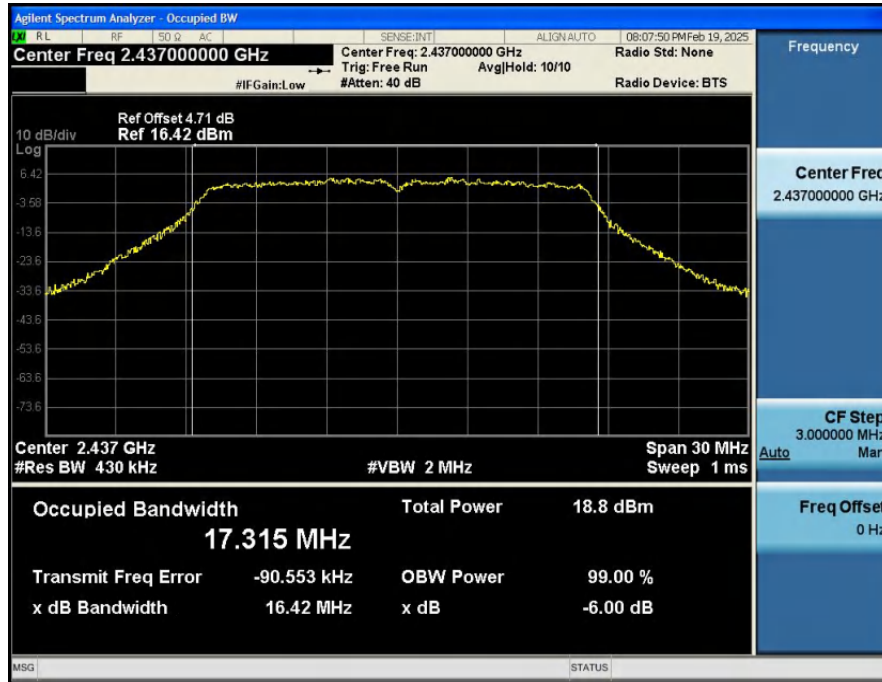
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



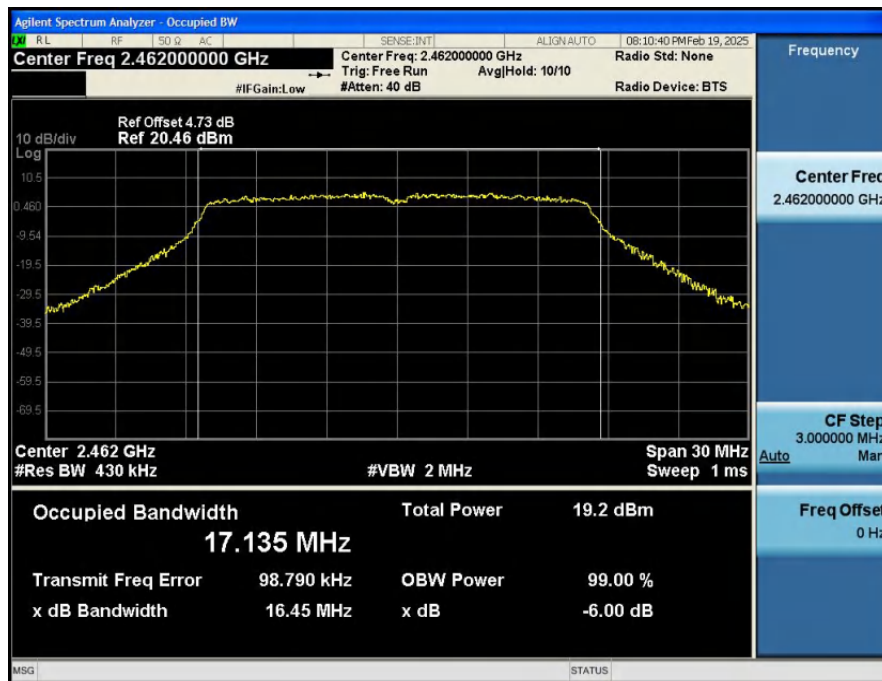
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



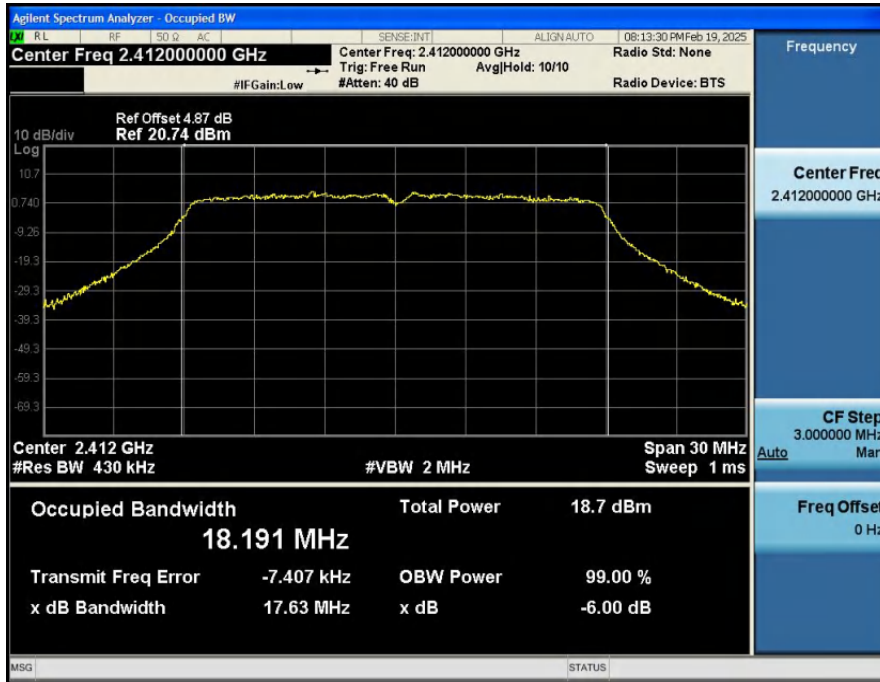
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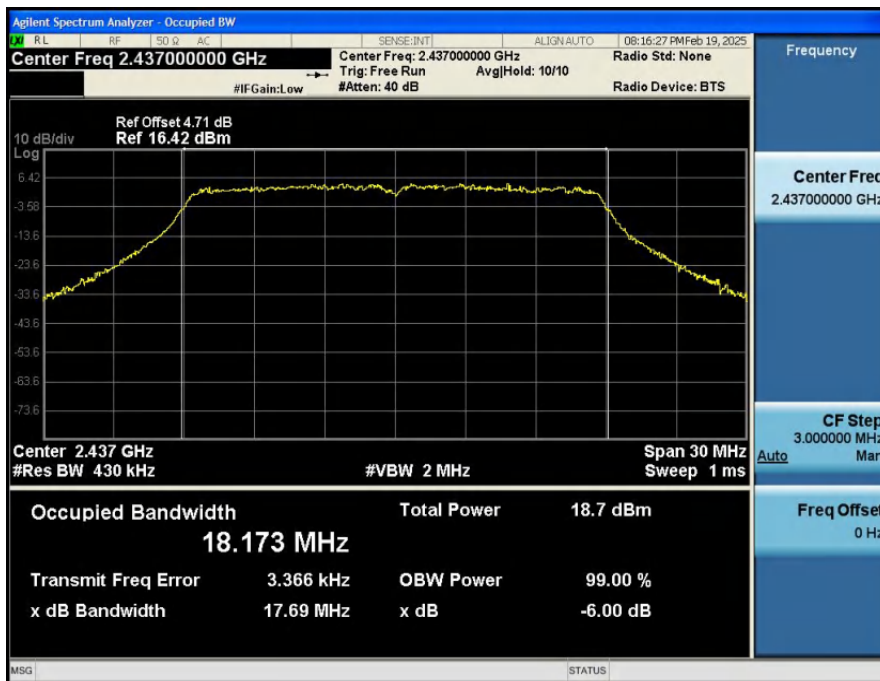


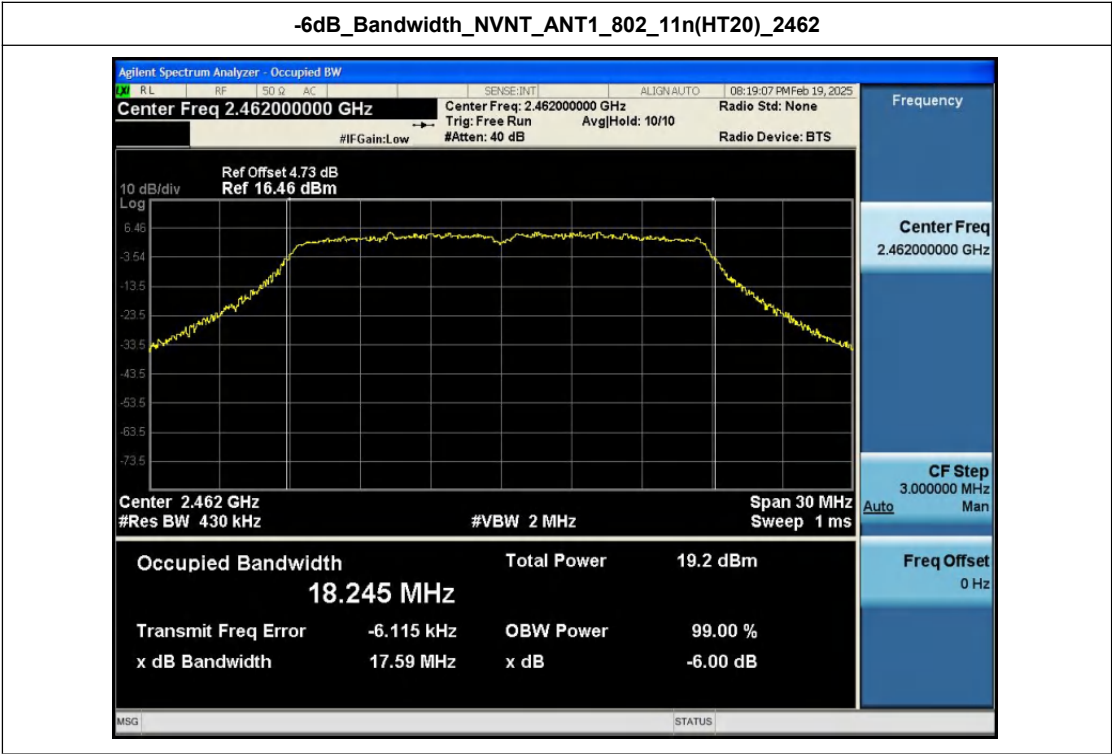
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437





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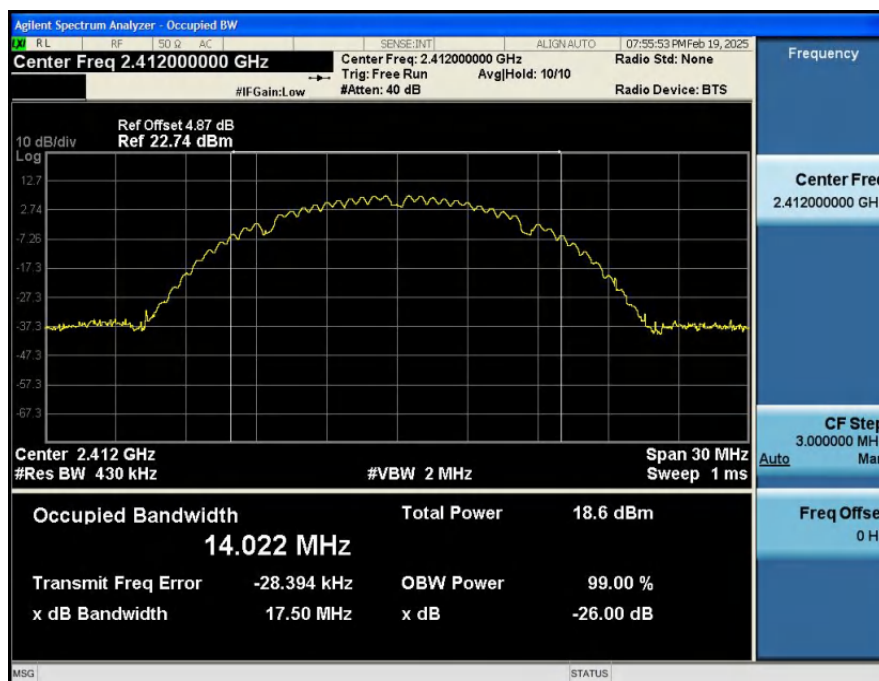
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel:(86)0755-26066440 Email:service@anbotek.com

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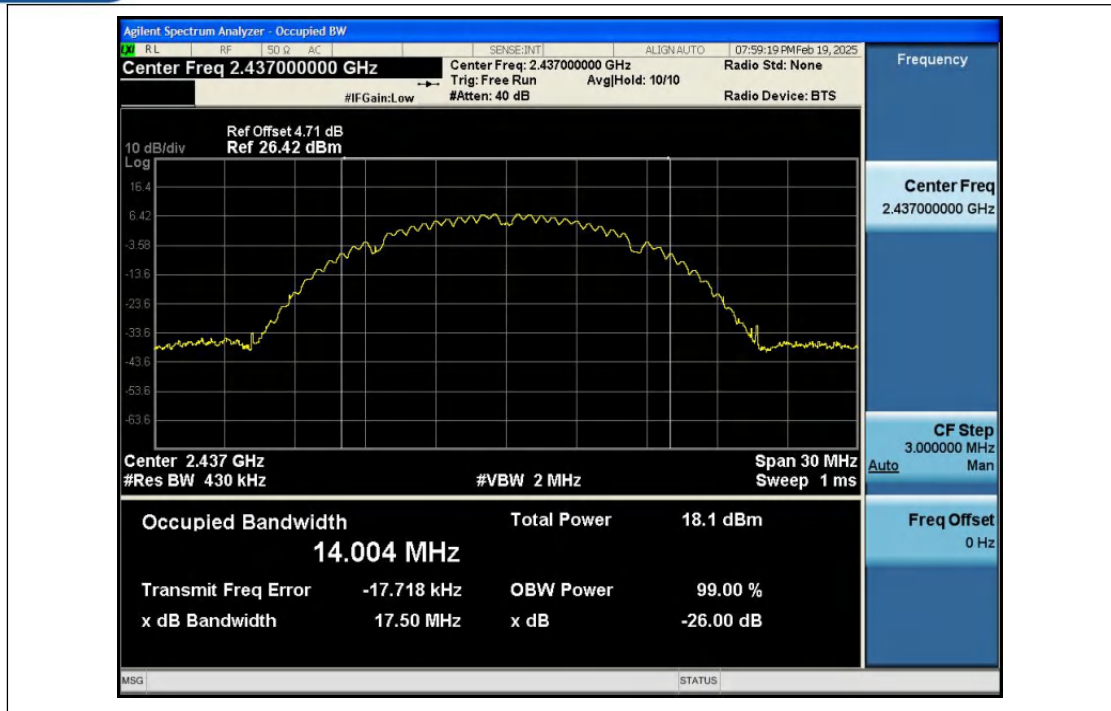
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.022
NVNT	ANT1	802.11b	2437.00	14.004
NVNT	ANT1	802.11b	2462.00	13.983
NVNT	ANT1	802.11g	2412.00	17.486
NVNT	ANT1	802.11g	2437.00	17.553
NVNT	ANT1	802.11g	2462.00	17.378
NVNT	ANT1	802.11n(HT20)	2412.00	18.387
NVNT	ANT1	802.11n(HT20)	2437.00	18.351
NVNT	ANT1	802.11n(HT20)	2462.00	18.417

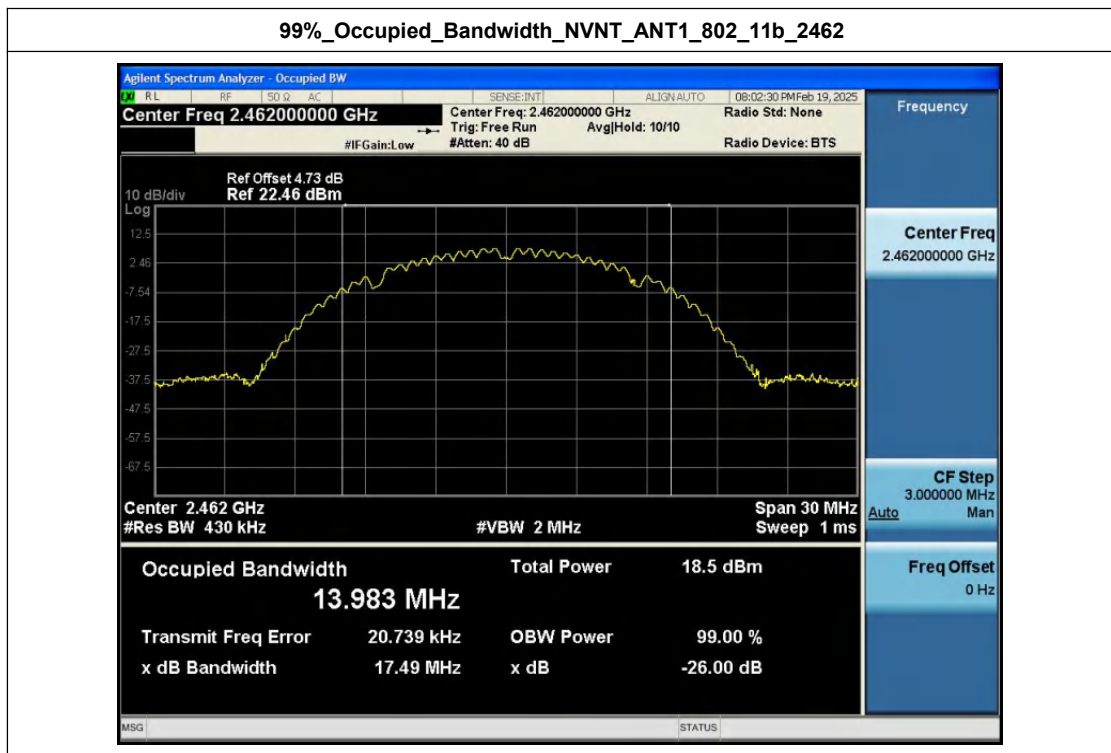
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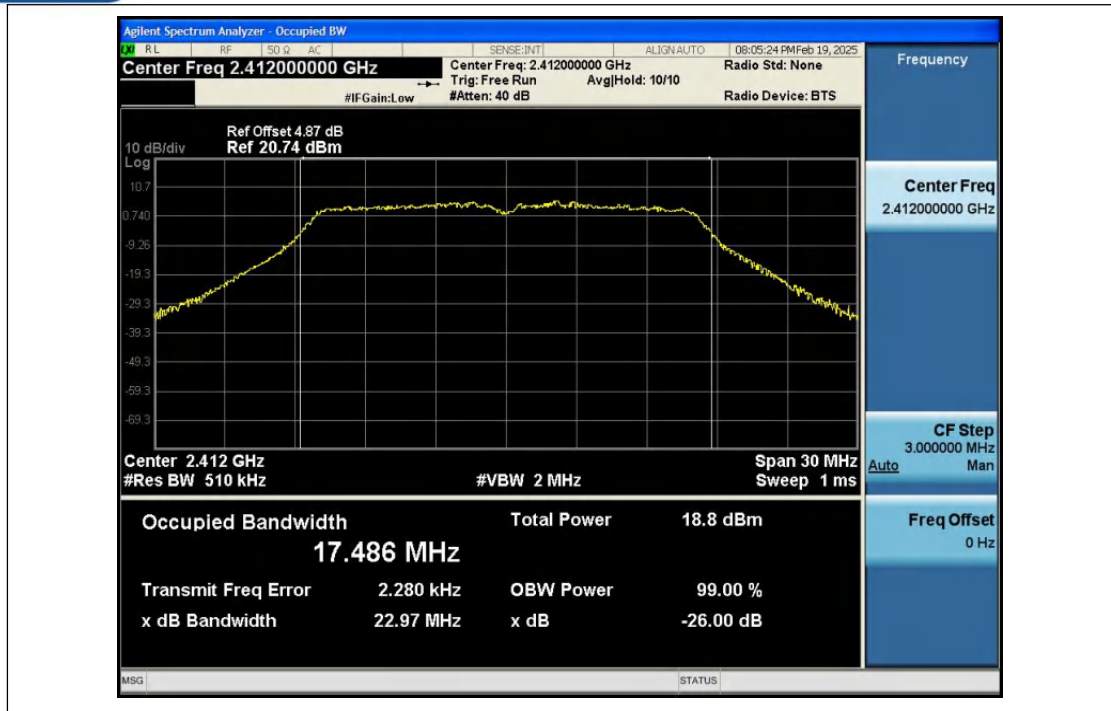
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



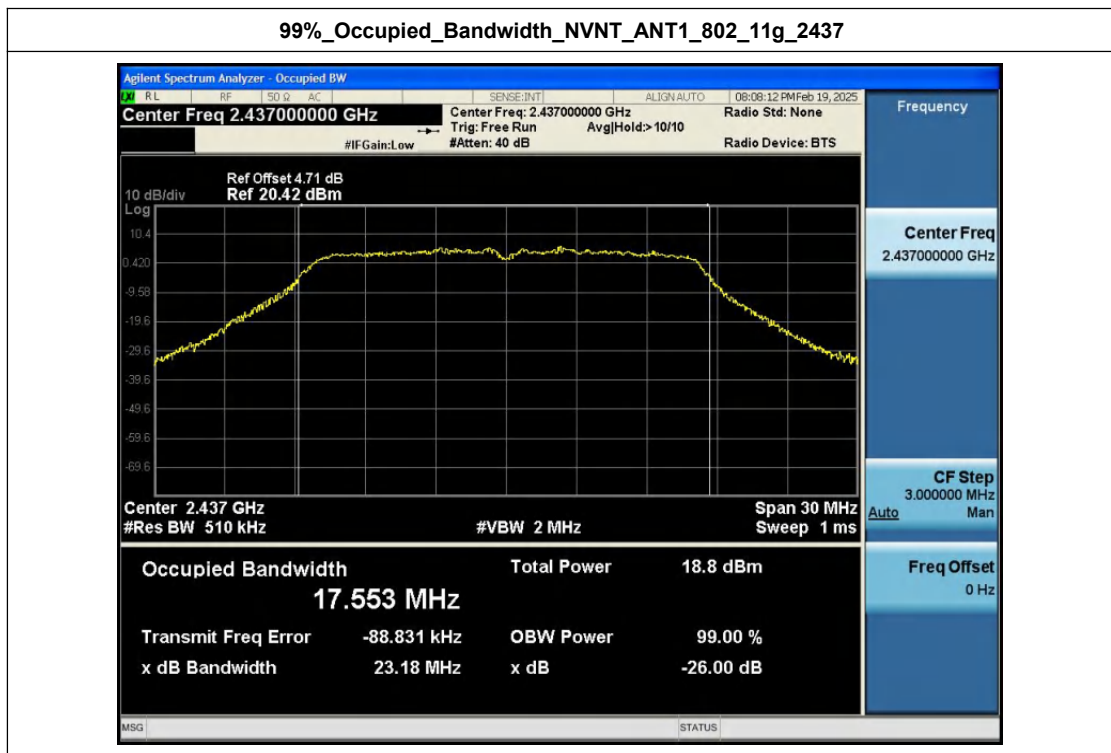
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



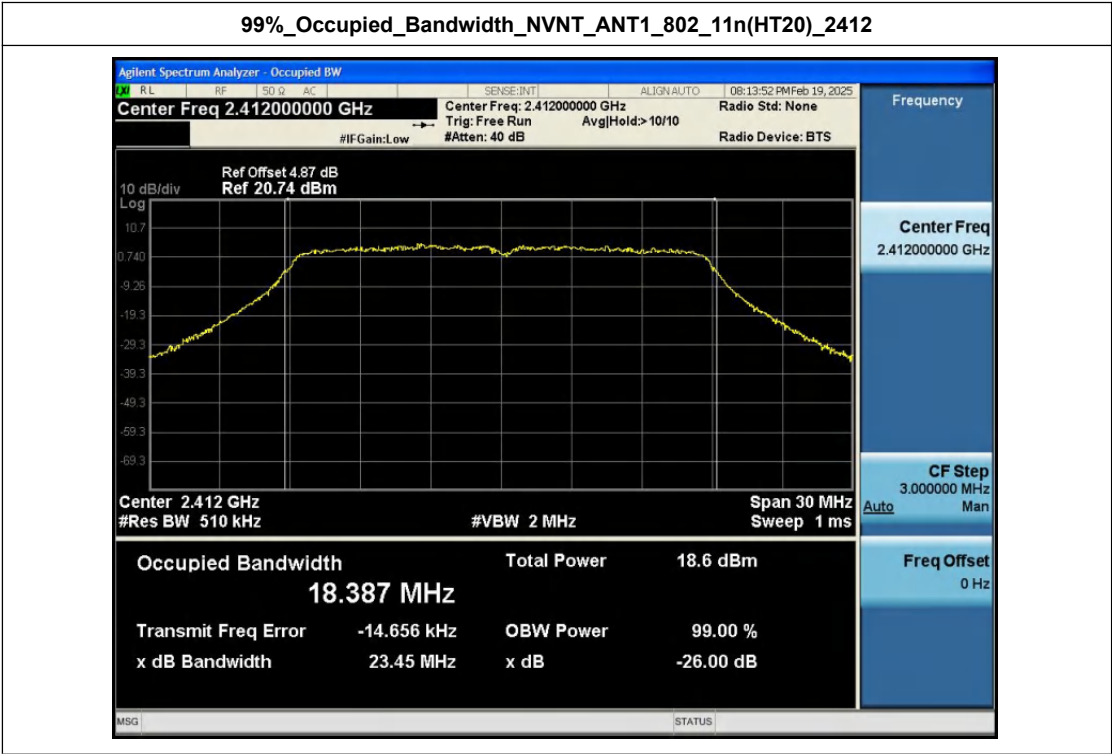
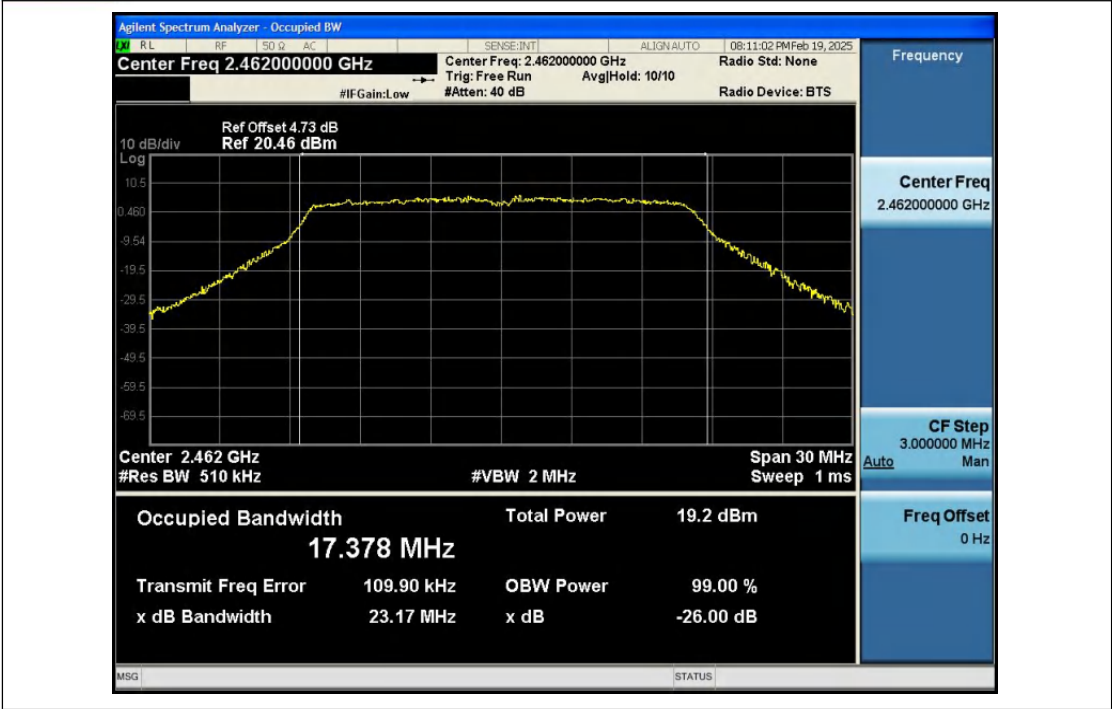
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



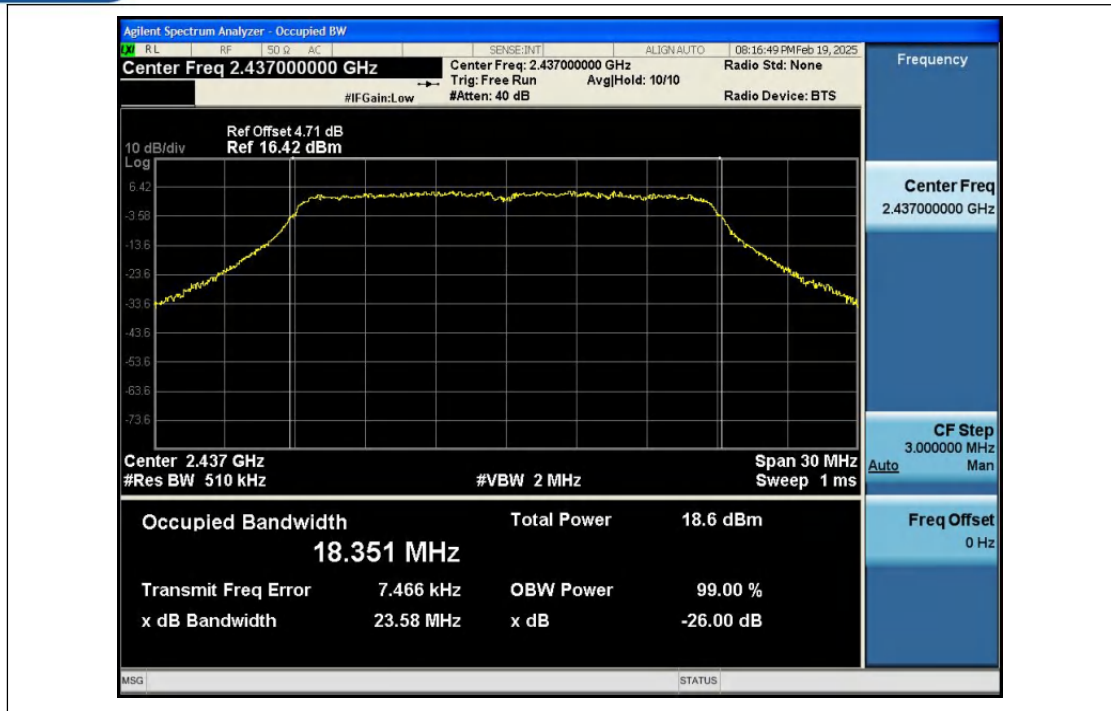
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



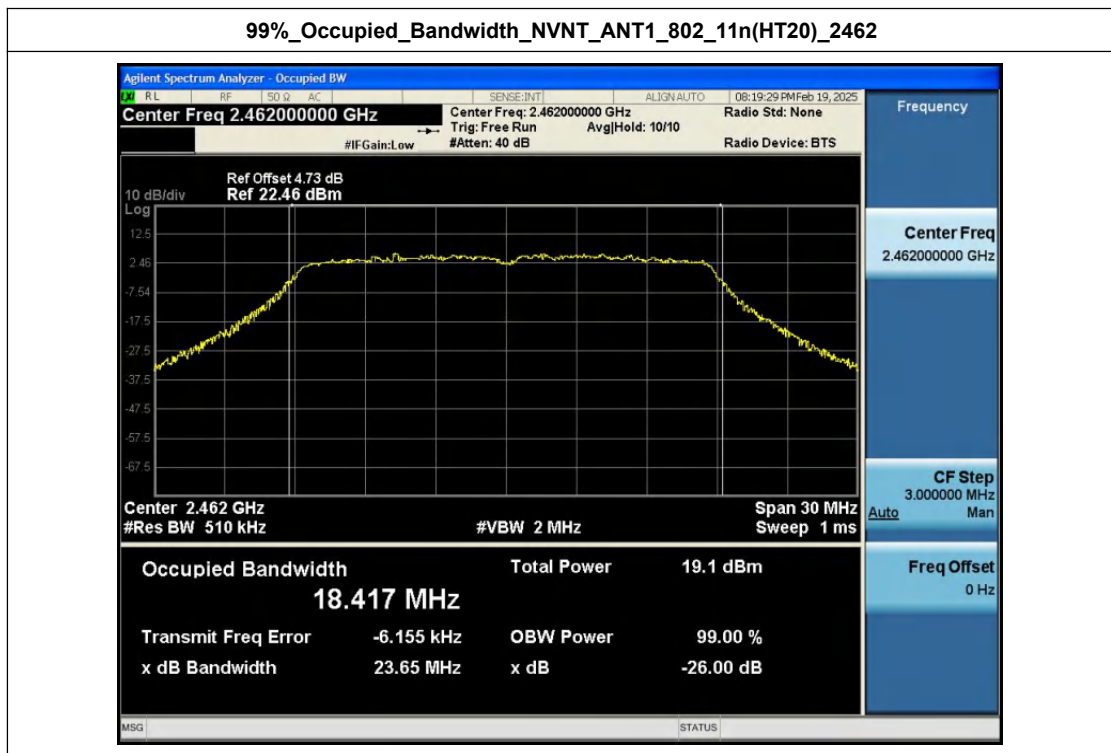
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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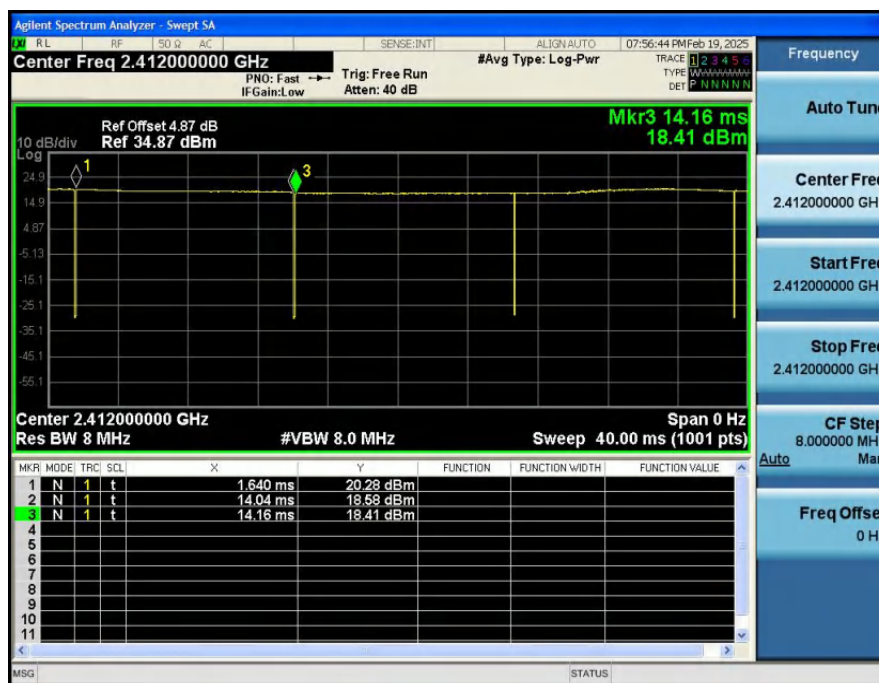
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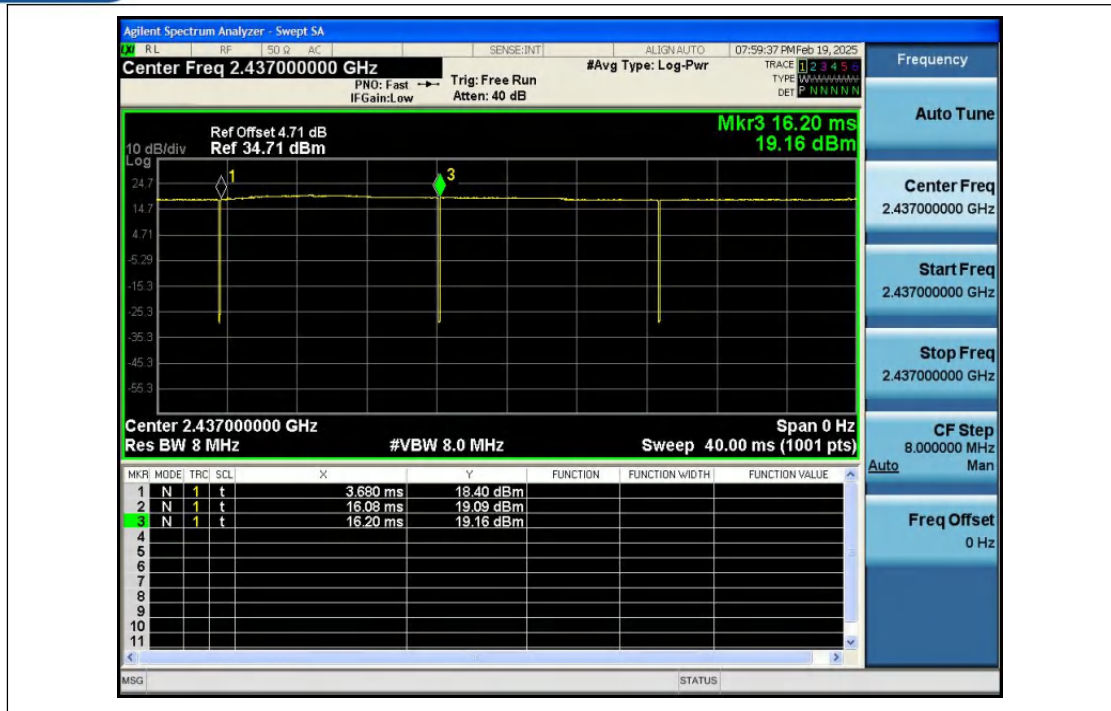
Appendix C: Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	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	94.55	0.24
NVNT	ANT1	802.11g	2437.00	94.55	0.24
NVNT	ANT1	802.11g	2462.00	95.41	0.20
NVNT	ANT1	802.11n(HT20)	2412.00	94.17	0.26
NVNT	ANT1	802.11n(HT20)	2437.00	94.17	0.26
NVNT	ANT1	802.11n(HT20)	2462.00	94.17	0.26

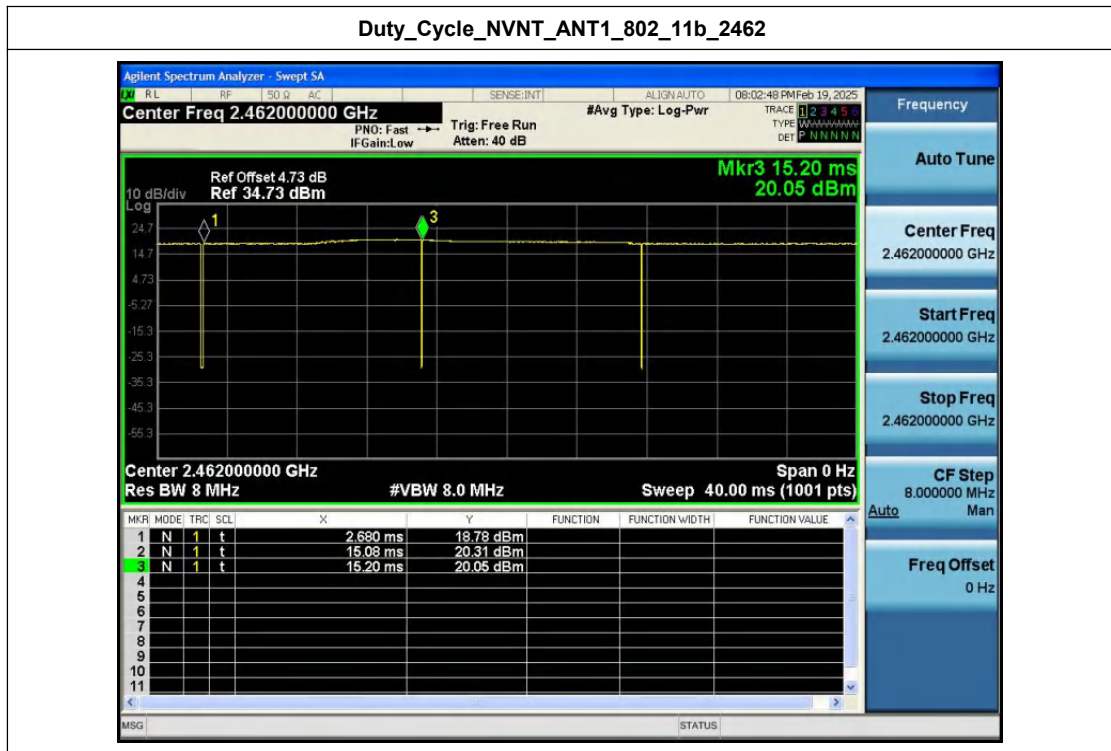
Duty_Cycle_NVNT_ANT1_802_11b_2412



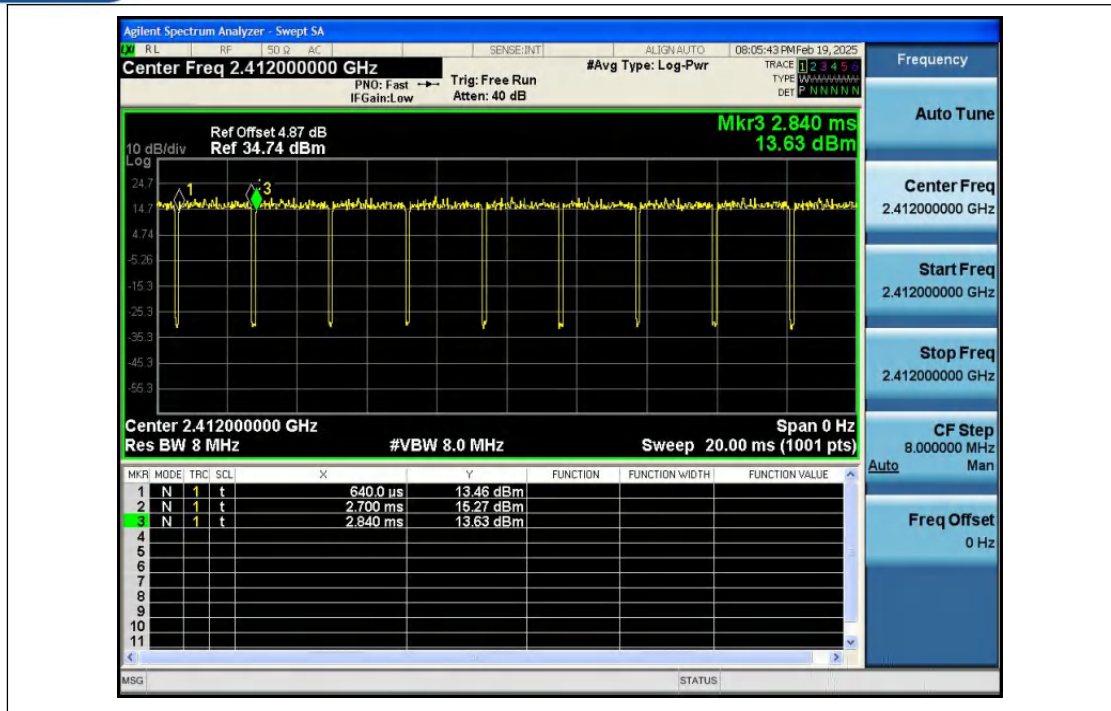
Duty_Cycle_NVNT_ANT1_802_11b_2437



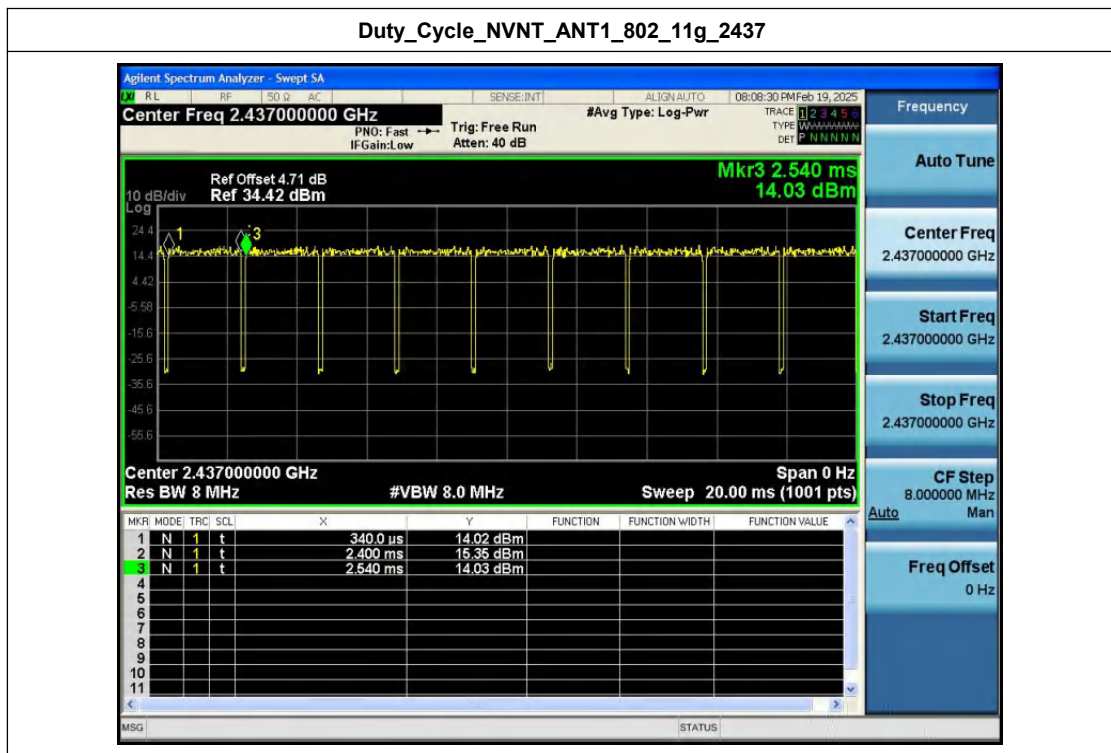
Duty_Cycle_NVNT_ANT1_802_11b_2462



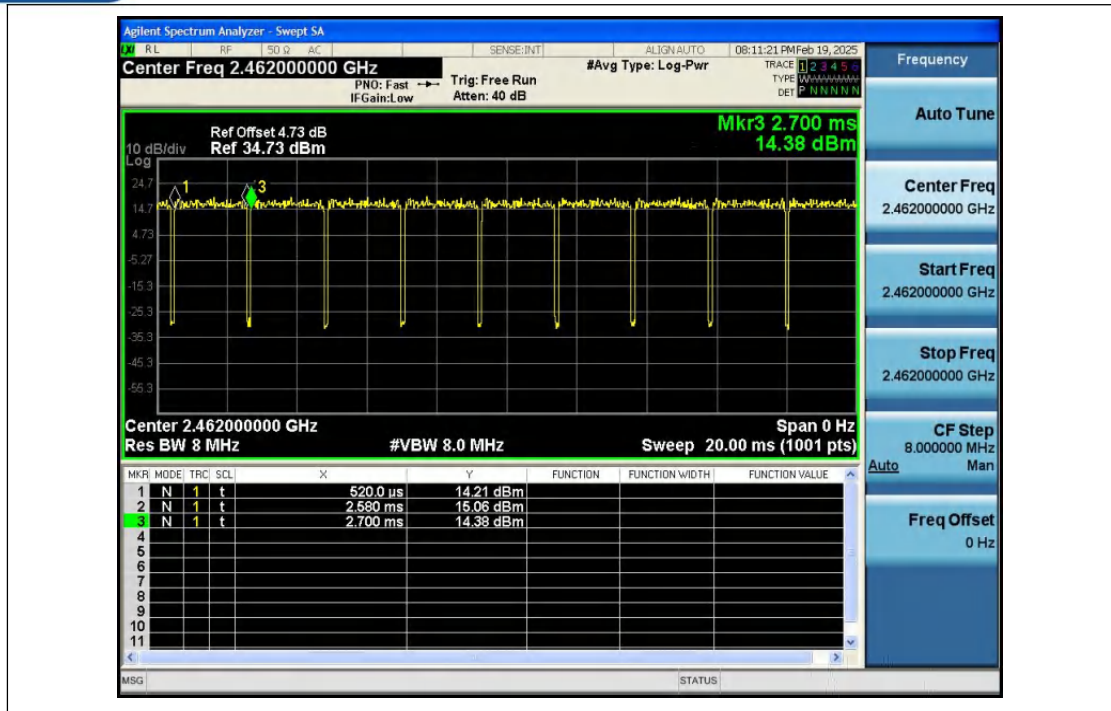
Duty_Cycle_NVNT_ANT1_802_11g_2412



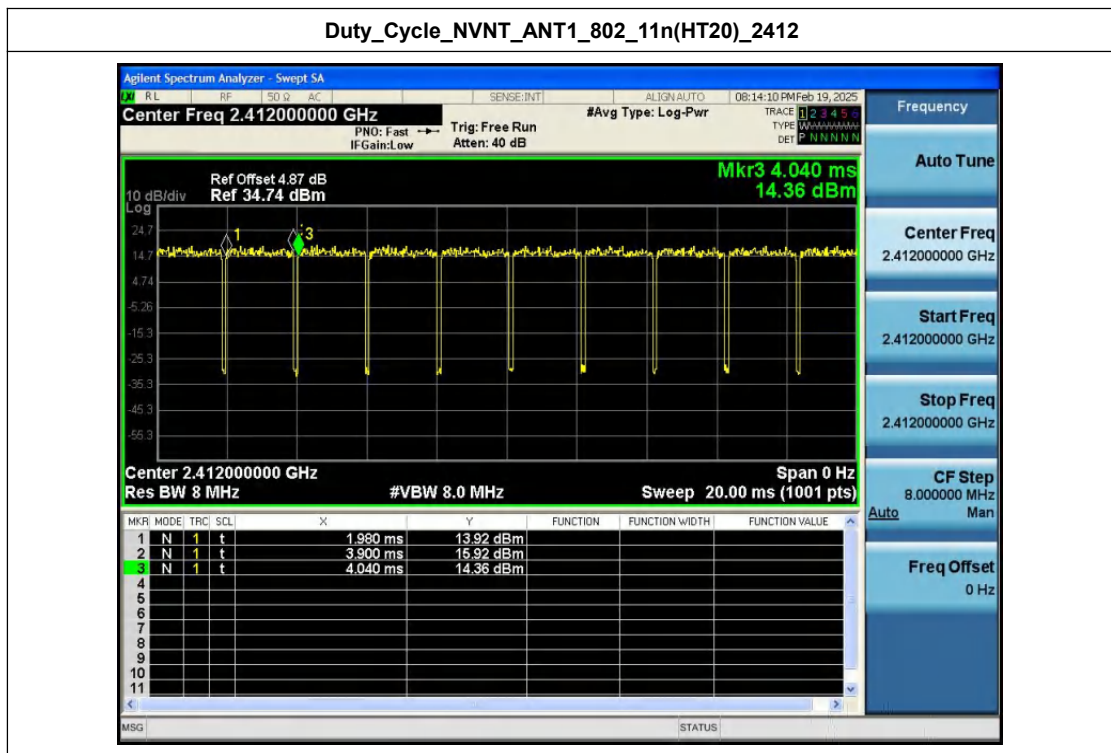
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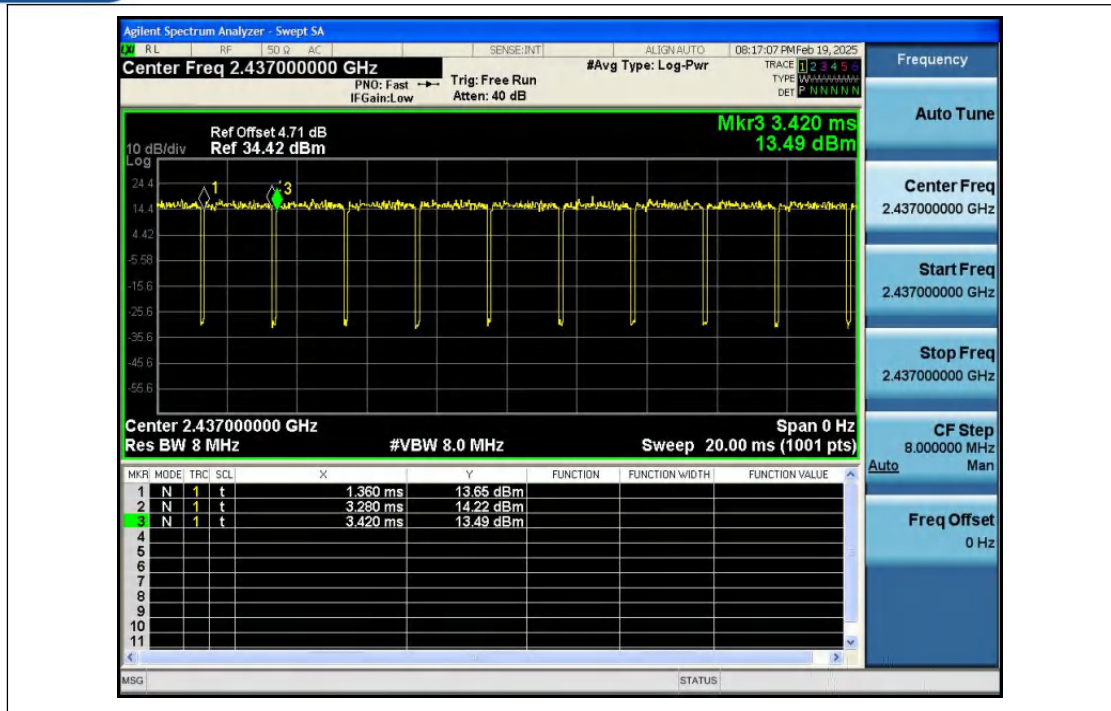
Duty_Cycle_NVNT_ANT1_802_11g_2462



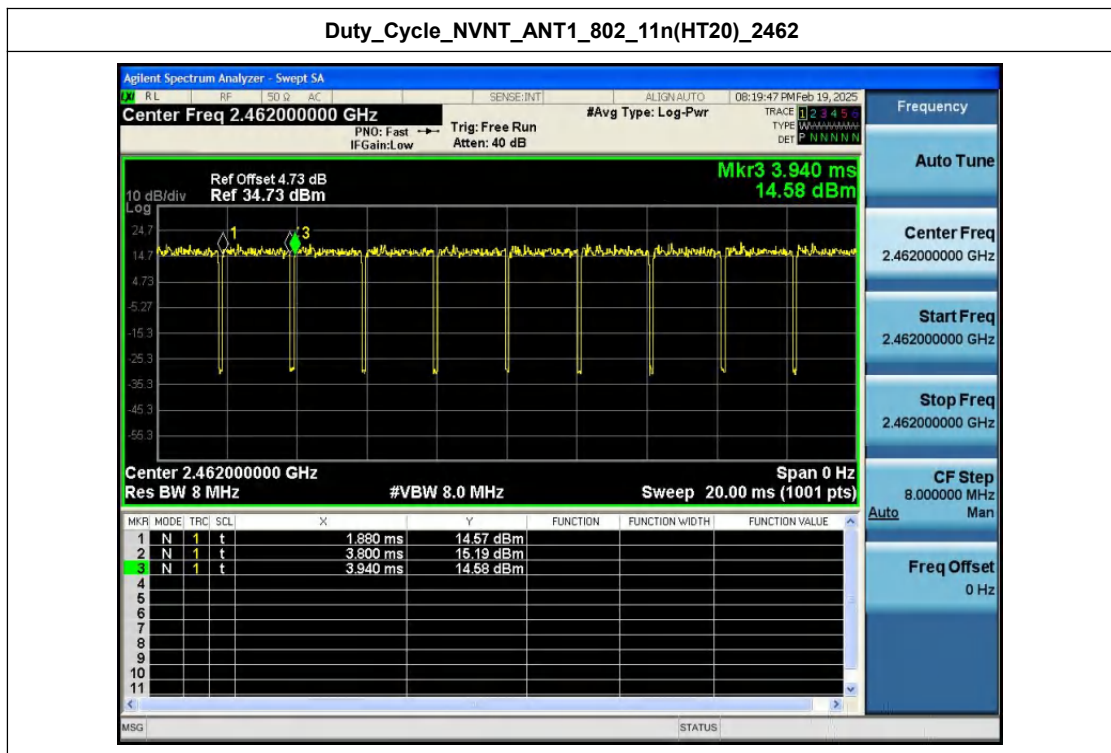
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



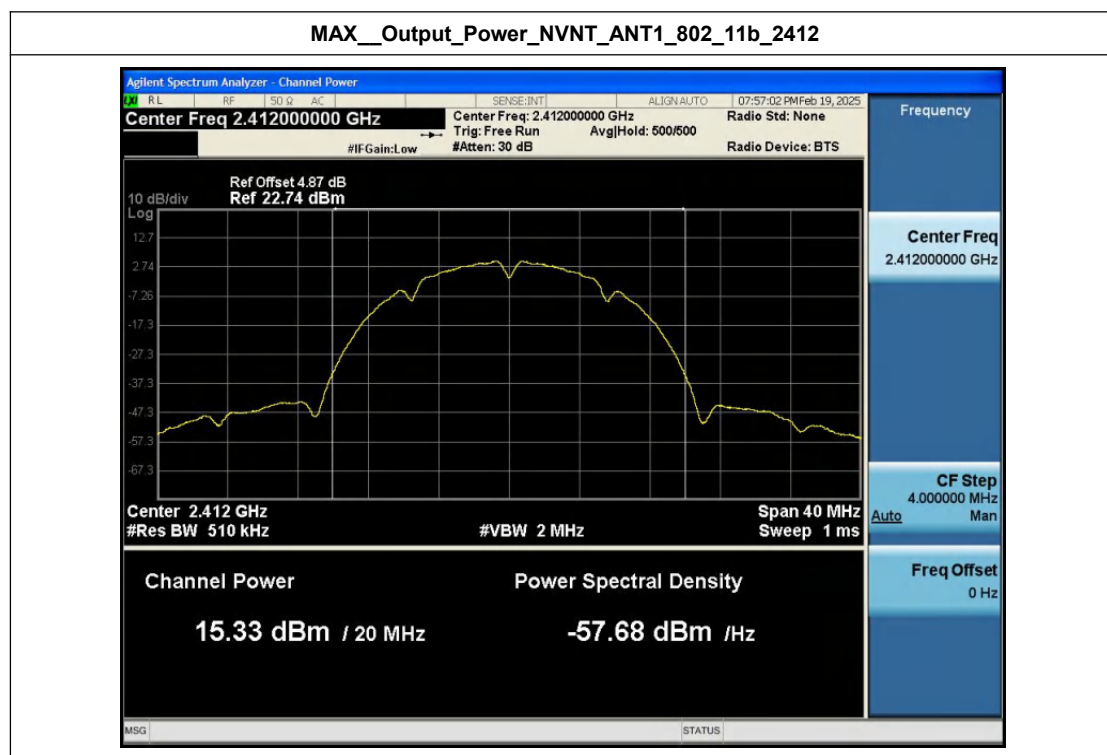
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



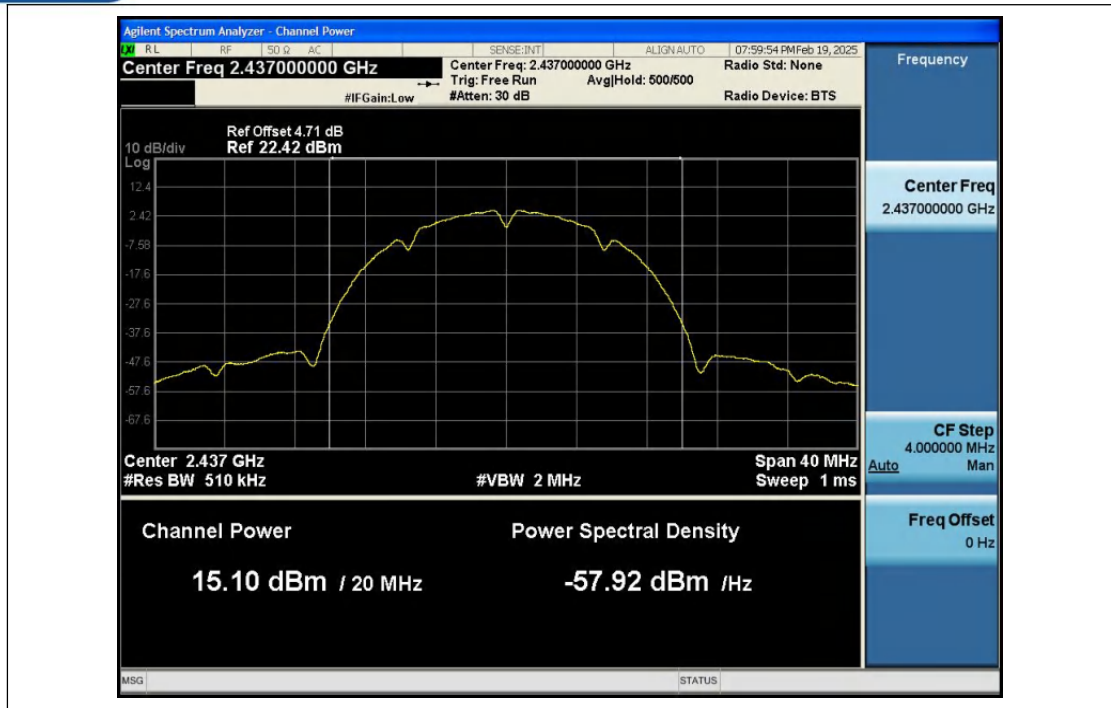
Appendix D: MAX. Output Power

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	15.33	0.00	15.33	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	15.10	0.00	15.10	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	15.51	0.00	15.51	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	11.60	0.24	11.84	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	11.48	0.24	11.72	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.02	0.20	12.22	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	11.54	0.26	11.80	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	11.42	0.26	11.68	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	11.91	0.26	12.17	30	Pass

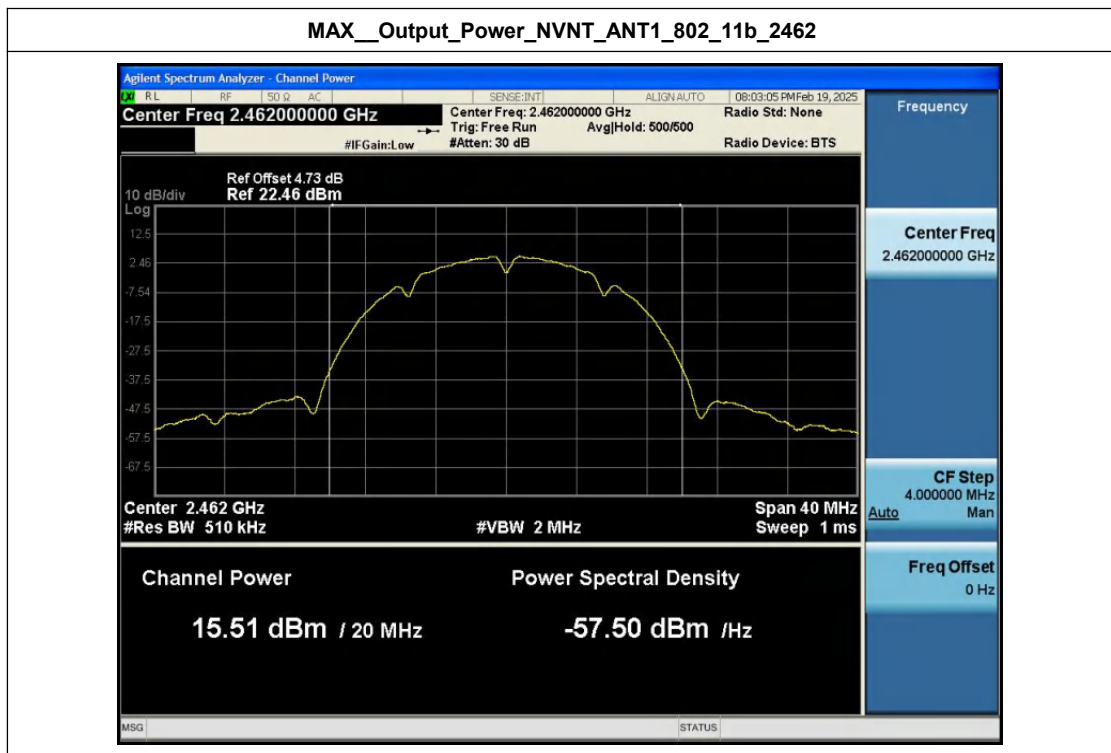
Note: The cable loss are compensated in the graph.



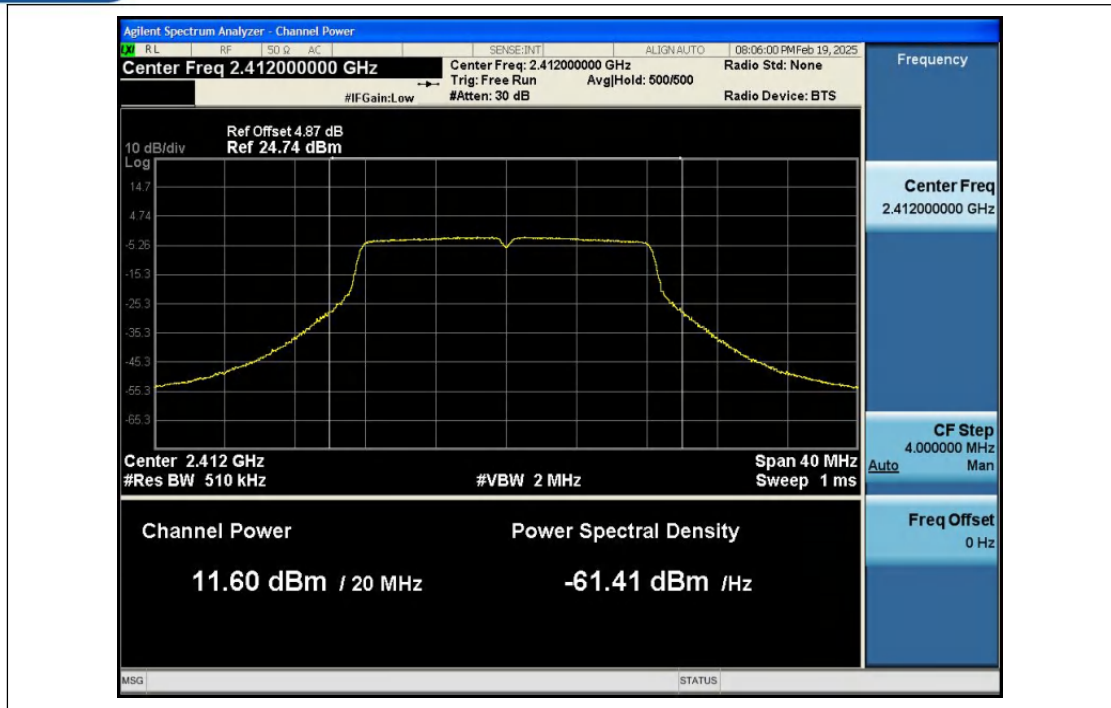
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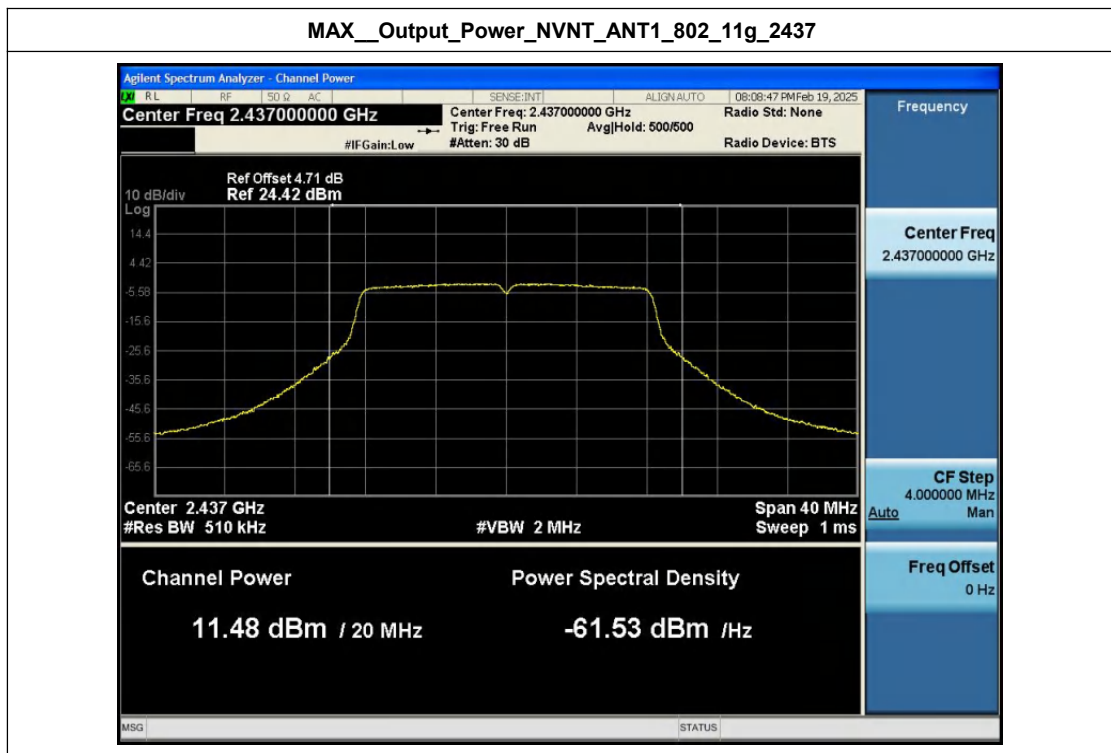
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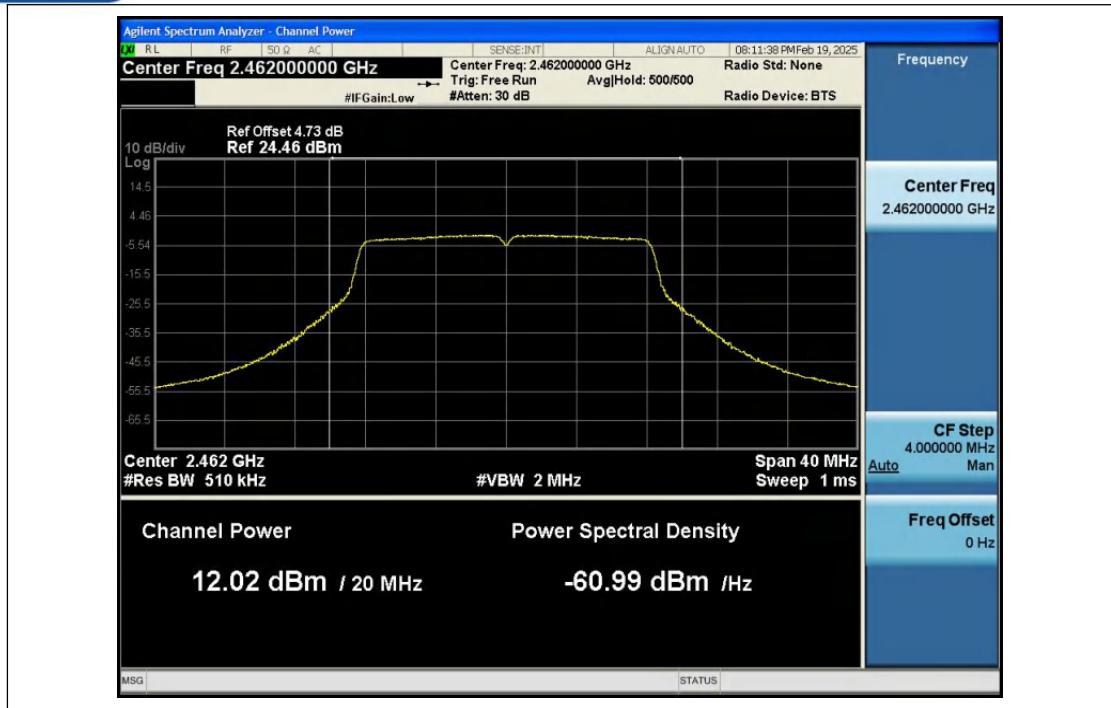
MAX__Output_Power_NVNT_ANT1_802_11g_2412



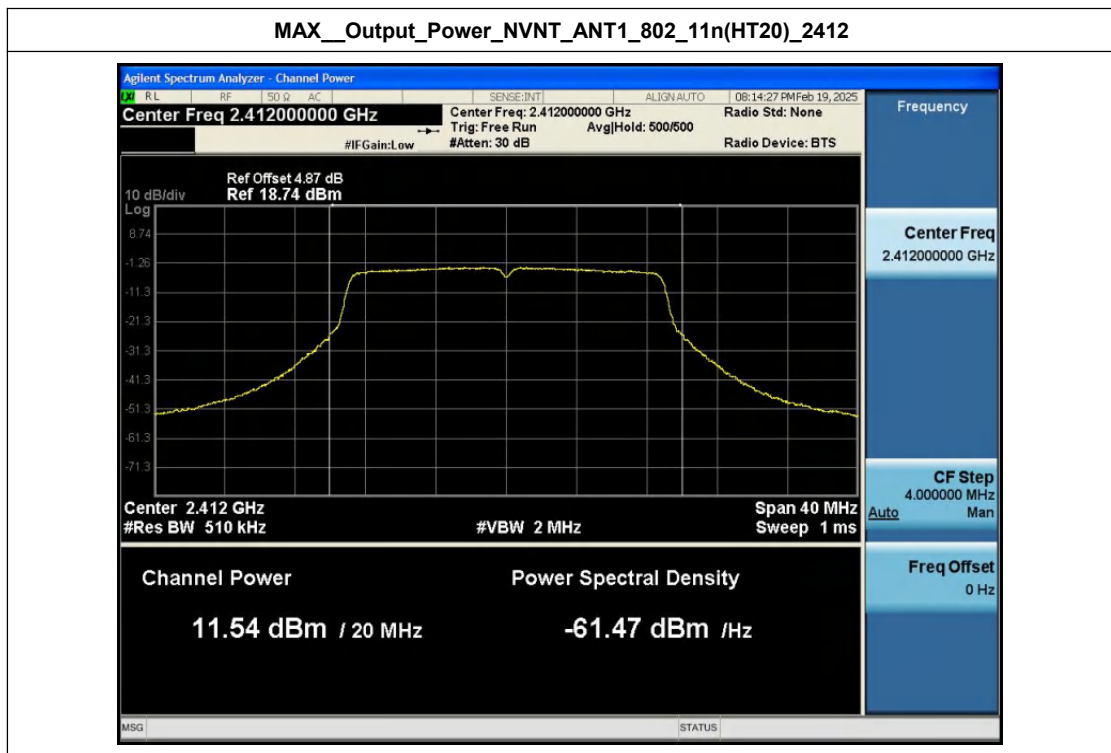
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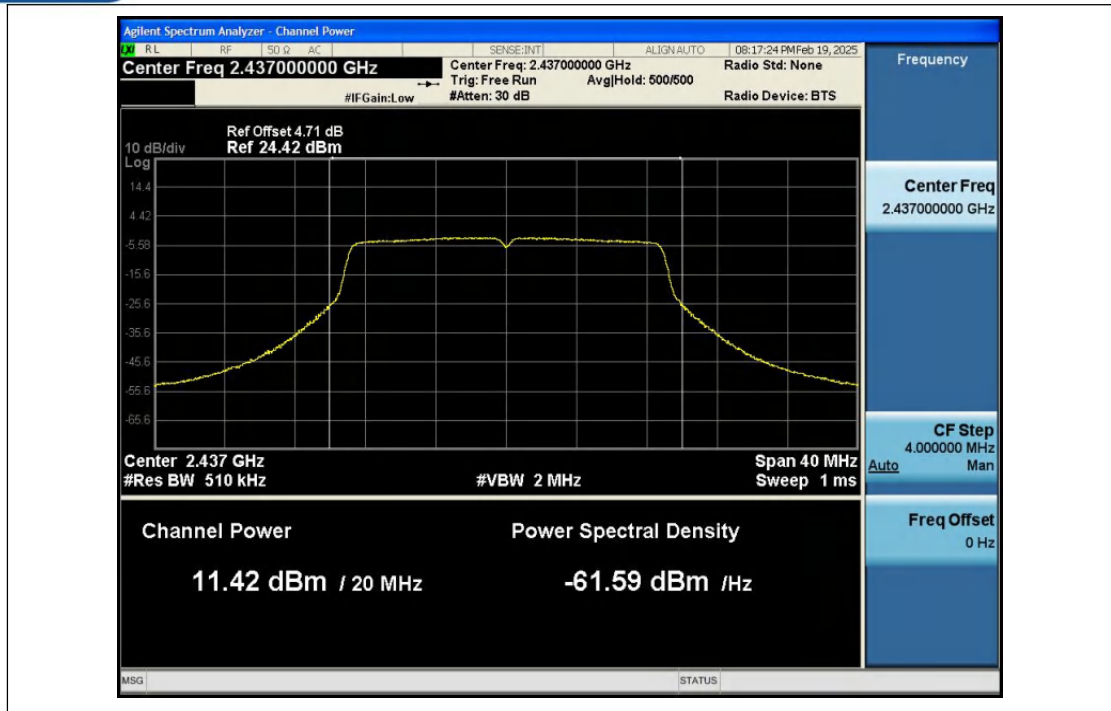
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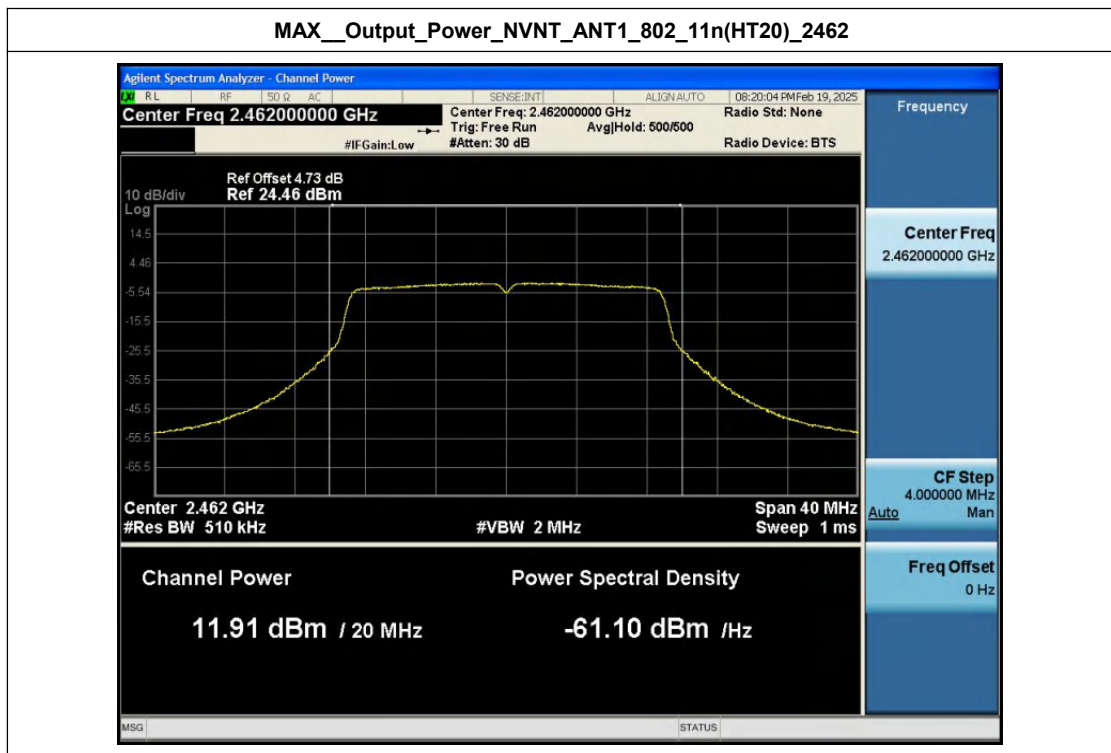
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



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	3.19	0.00	-10.00	-6.81	8	Pass
NVNT	ANT1	802.11b	2437.00	3.13	0.00	-10.00	-6.87	8	Pass
NVNT	ANT1	802.11b	2462.00	3.12	0.00	-10.00	-6.88	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.15	0.24	-10.00	-13.91	8	Pass
NVNT	ANT1	802.11g	2437.00	-4.14	0.24	-10.00	-13.90	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.60	0.20	-10.00	-13.40	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-4.62	0.26	-10.00	-14.36	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-4.60	0.26	-10.00	-14.34	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-4.04	0.26	-10.00	-13.78	8	Pass

Note: 1.The cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$.

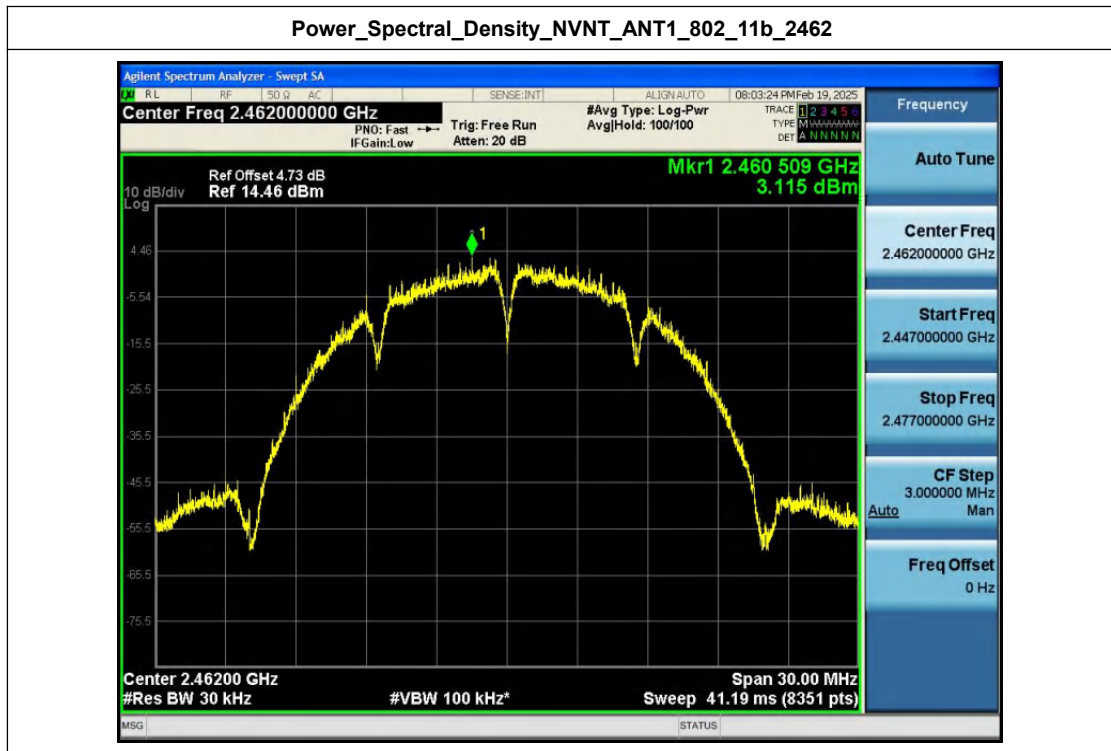
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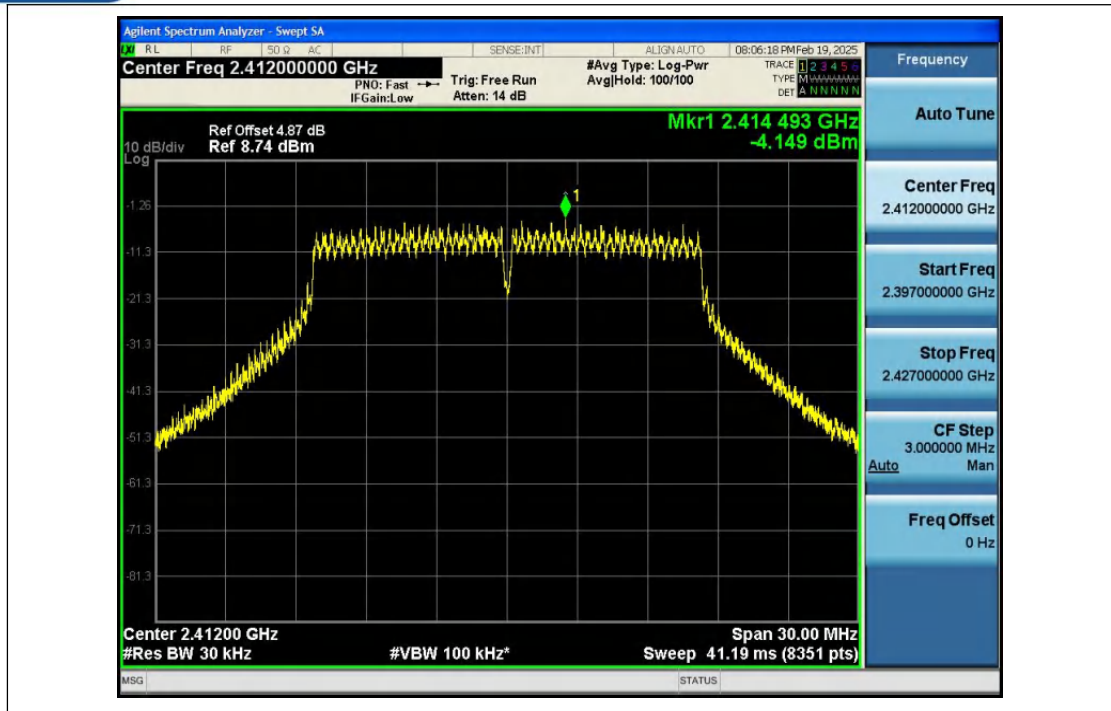
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



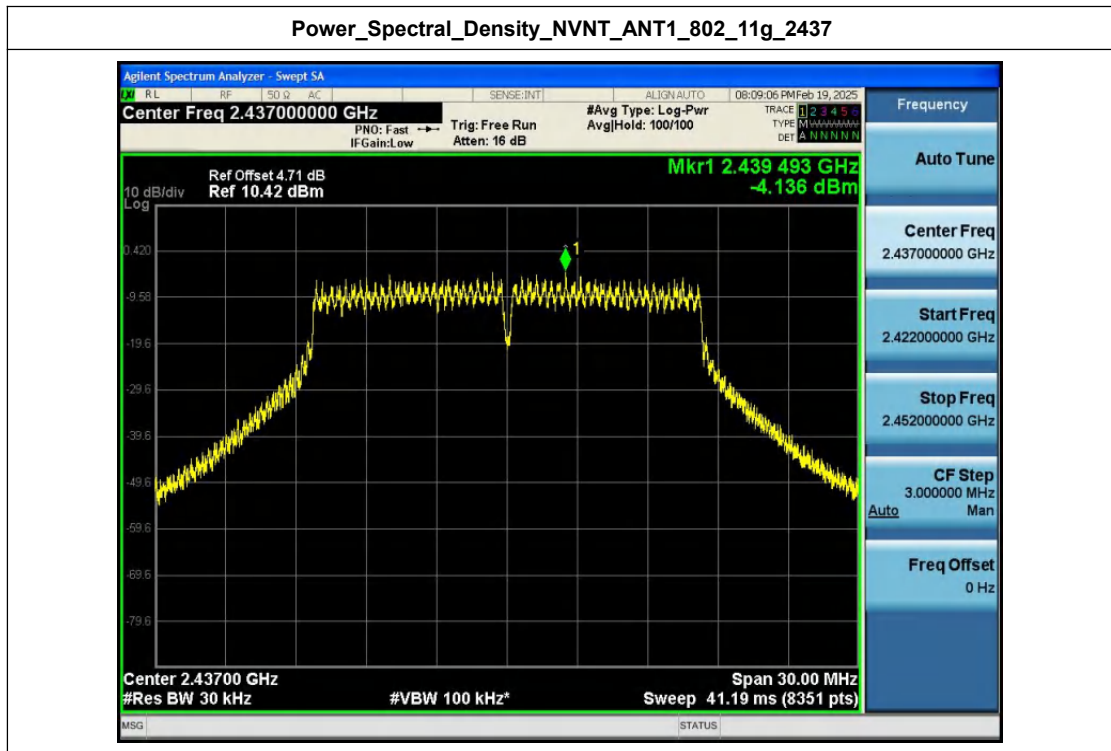
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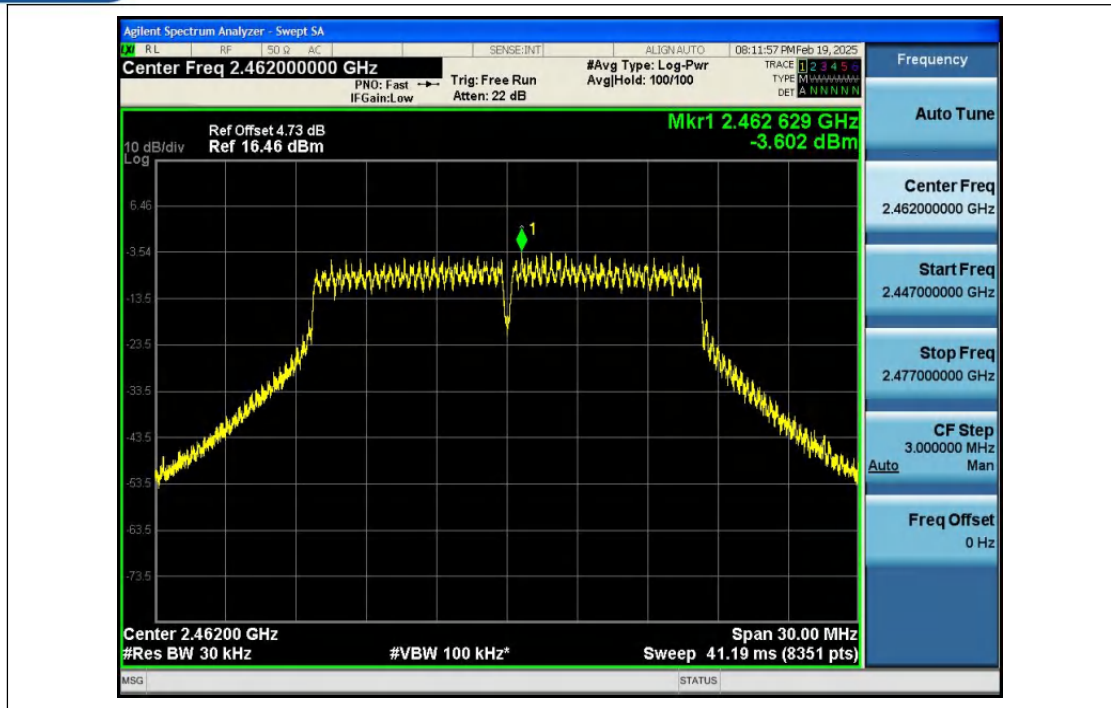
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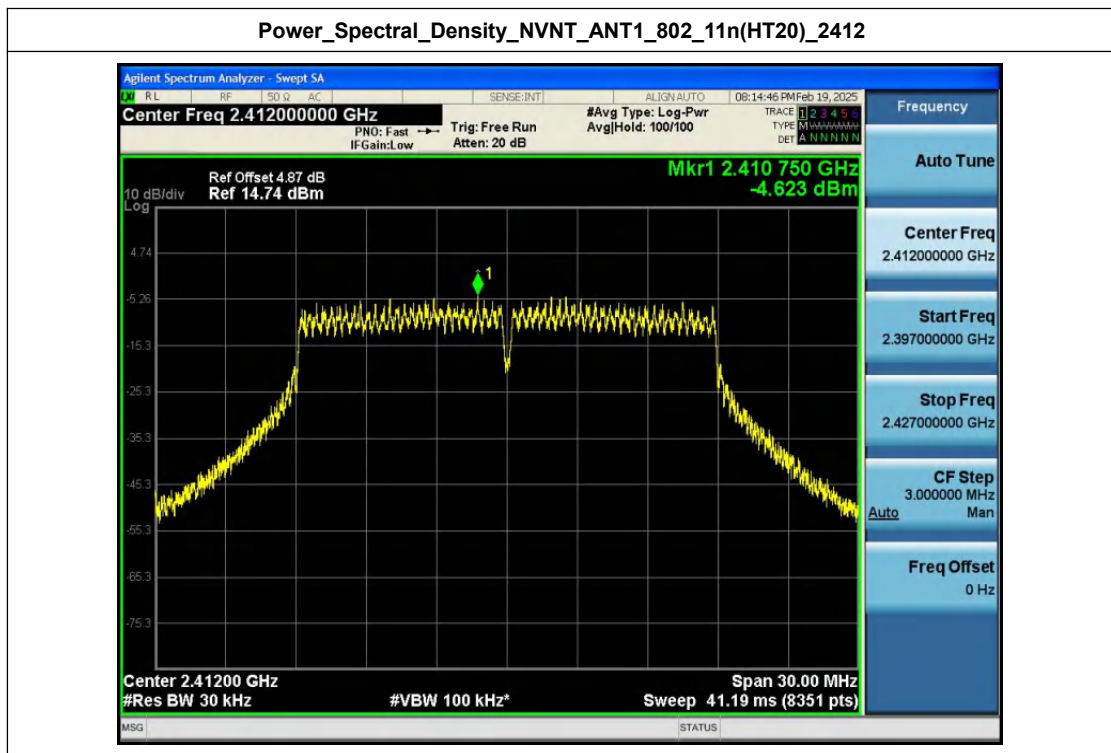
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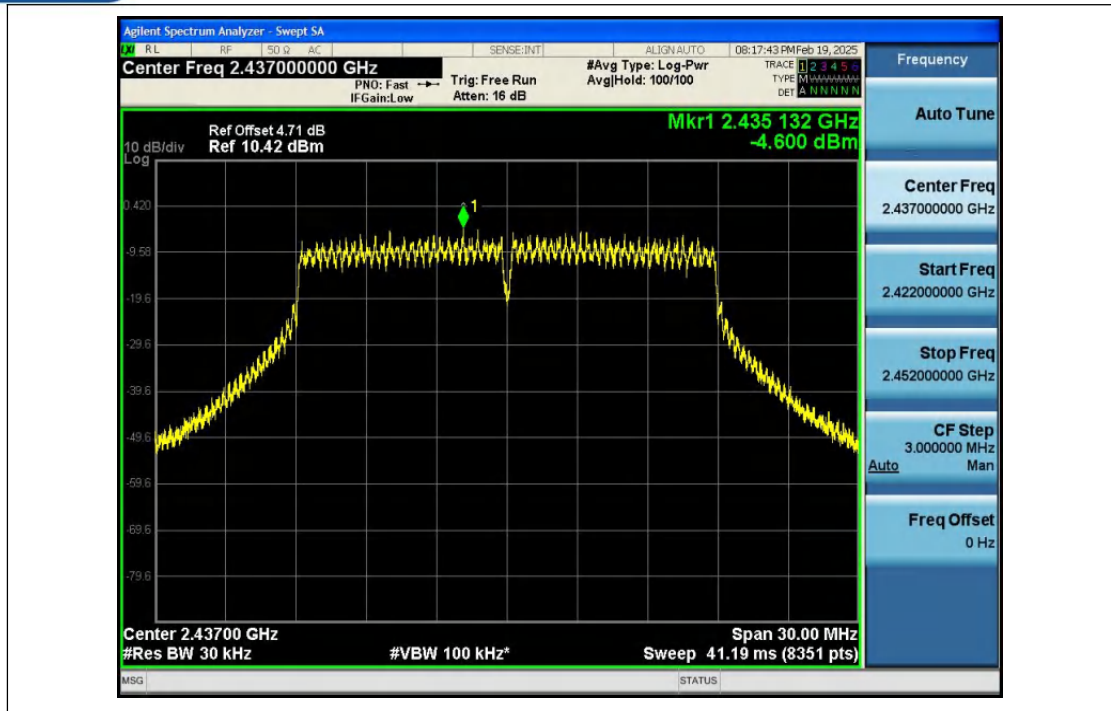
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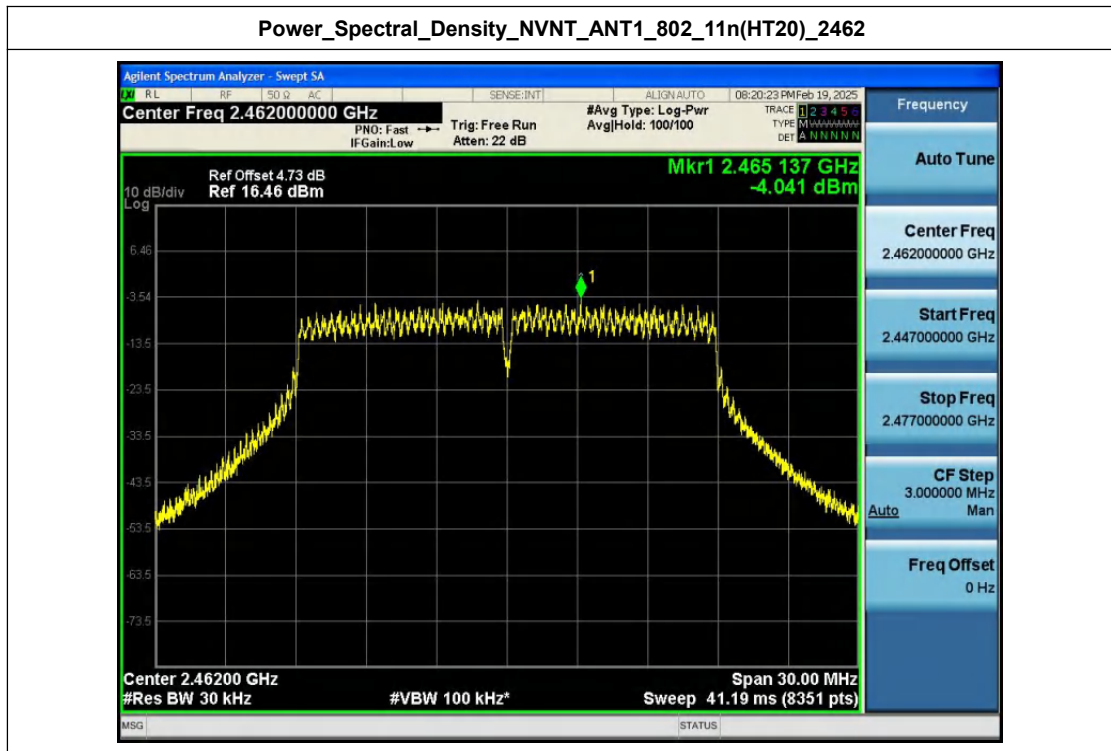
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



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	6.348	-42.017	-23.652	Pass
NVNT	ANT1	802.11b	2462.00	2488.480	7.214	-52.554	-22.786	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	0.502	-34.763	-29.498	Pass
NVNT	ANT1	802.11g	2462.00	2484.784	1.110	-52.535	-28.890	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	0.197	-33.479	-29.803	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.544	0.042	-49.852	-29.958	Pass

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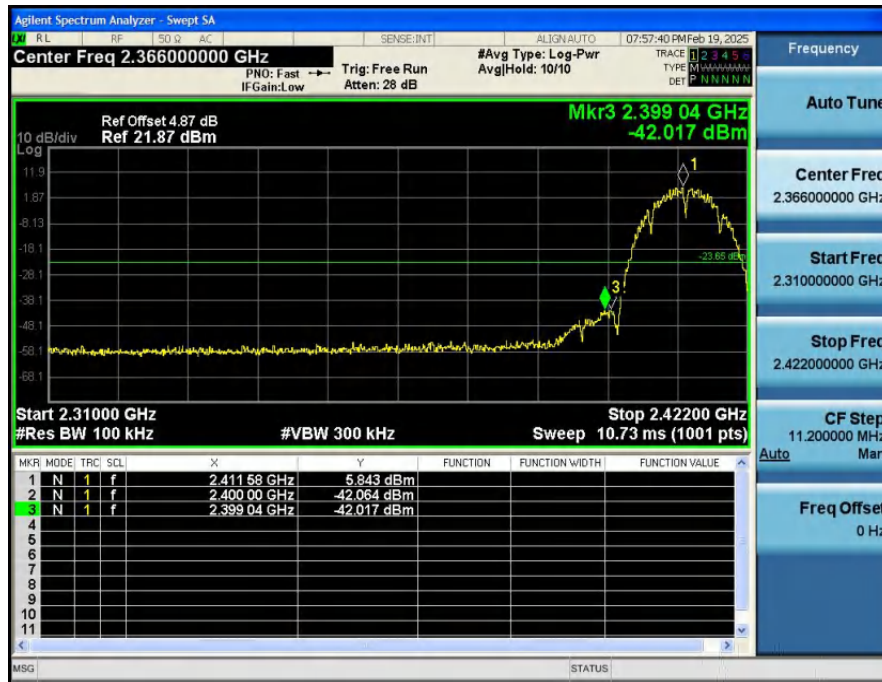


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1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



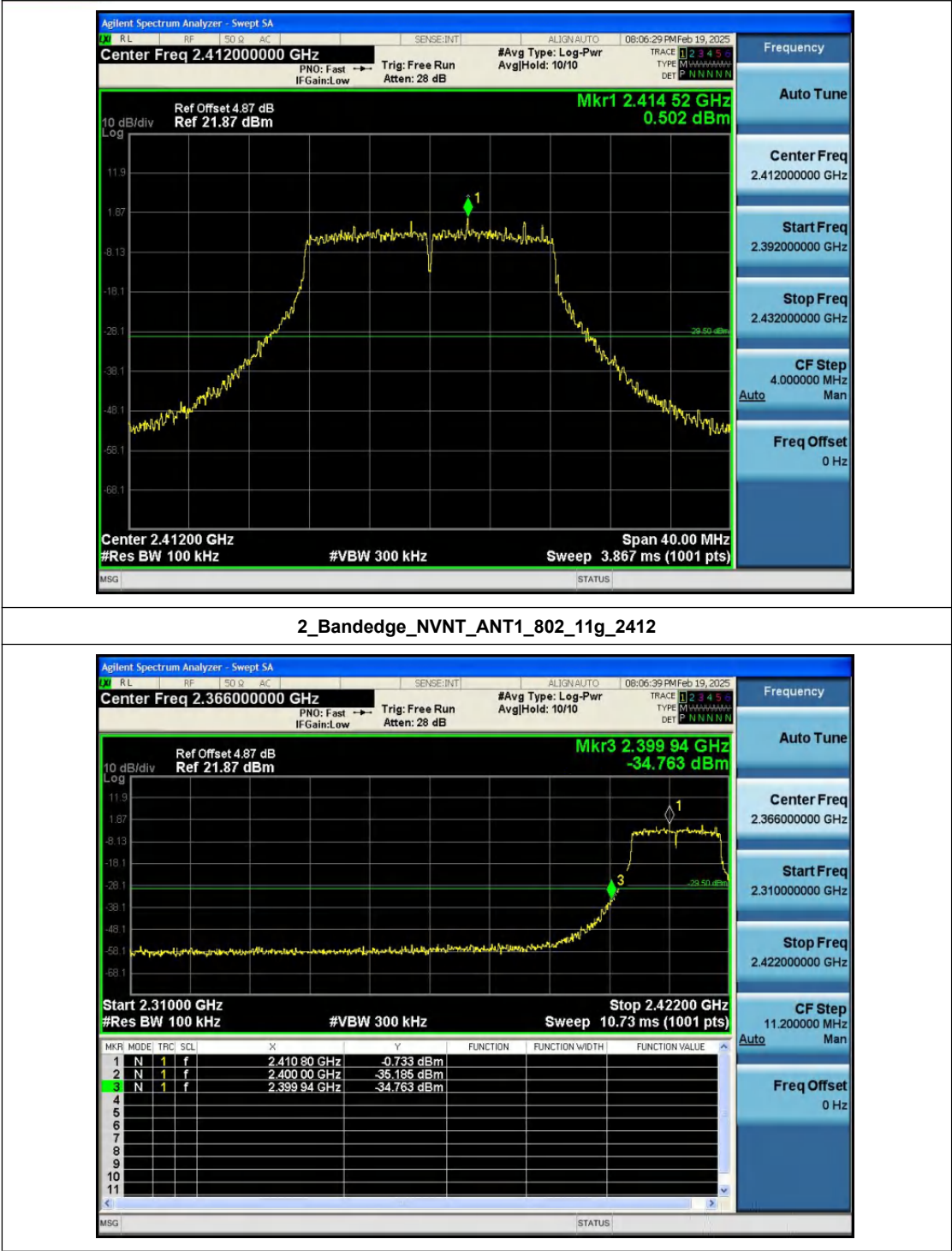
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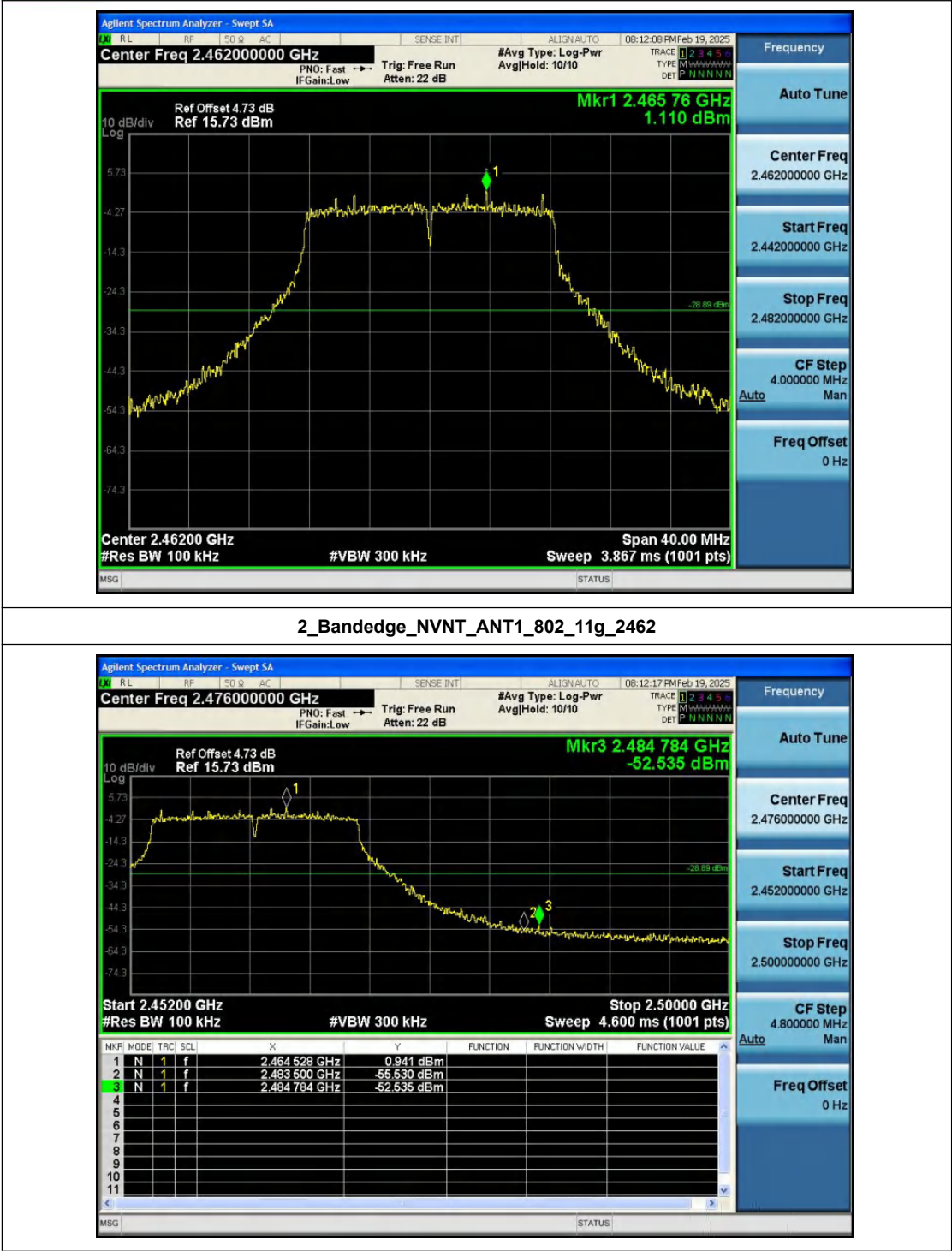


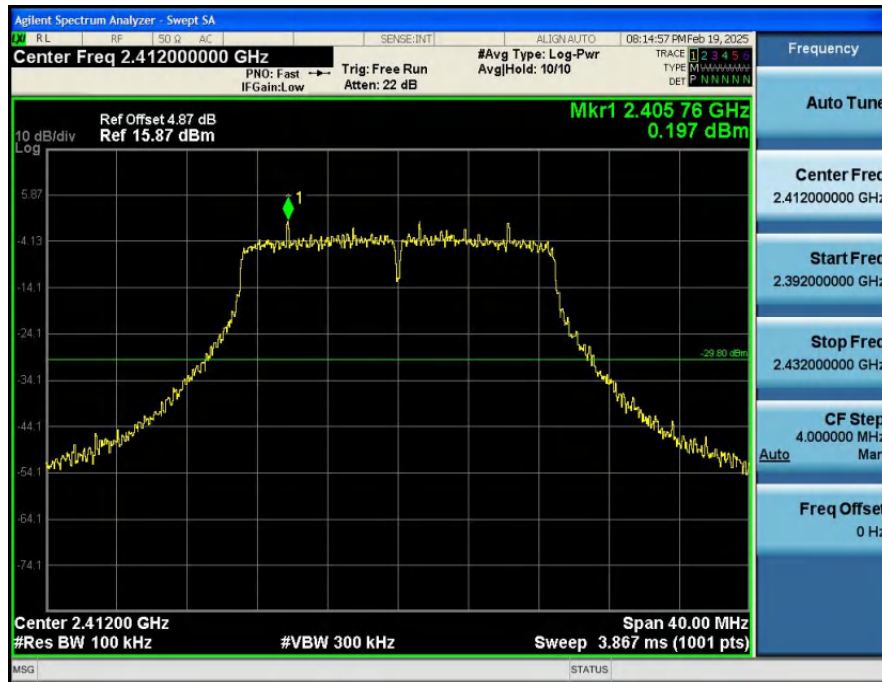
2_Bandedge_NVNT_ANT1_802_11b_2462



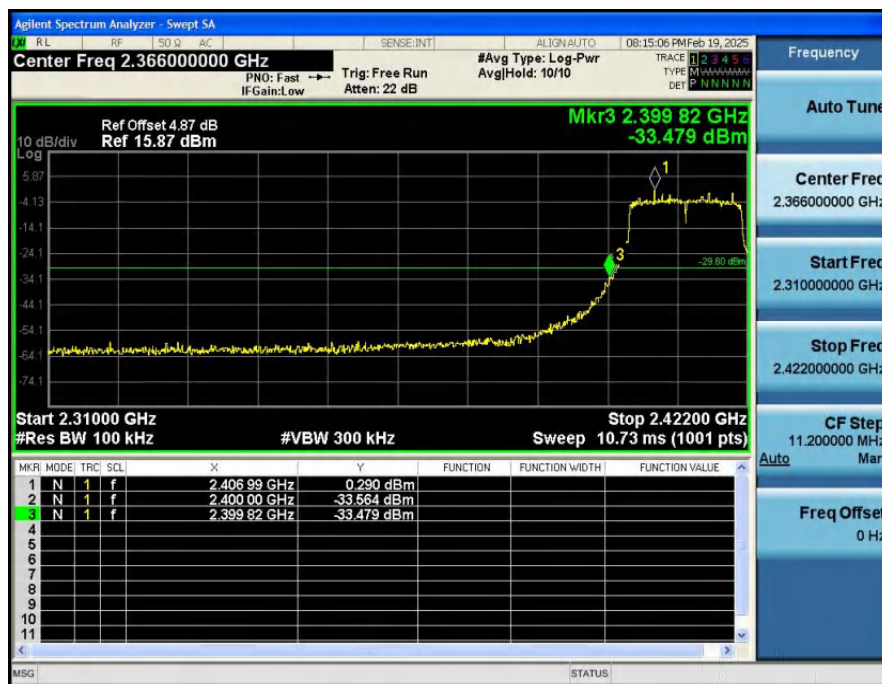
1_Reference_Level_NVNT_ANT1_802_11g_2412







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	24310.828	6.348	-44.948	-23.652	Pass
NVNT	ANT1	802.11b	2437.00	24860.168	5.794	-44.424	-24.206	Pass
NVNT	ANT1	802.11b	2462.00	24965.042	7.214	-43.982	-22.786	Pass
NVNT	ANT1	802.11g	2412.00	24333.301	0.502	-44.459	-29.498	Pass
NVNT	ANT1	802.11g	2437.00	24857.671	0.022	-50.543	-29.978	Pass
NVNT	ANT1	802.11g	2462.00	24820.216	1.110	-51.481	-28.890	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	25000.000	0.197	-50.778	-29.803	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24825.210	0.254	-50.968	-29.746	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24870.156	0.042	-44.323	-29.958	Pass

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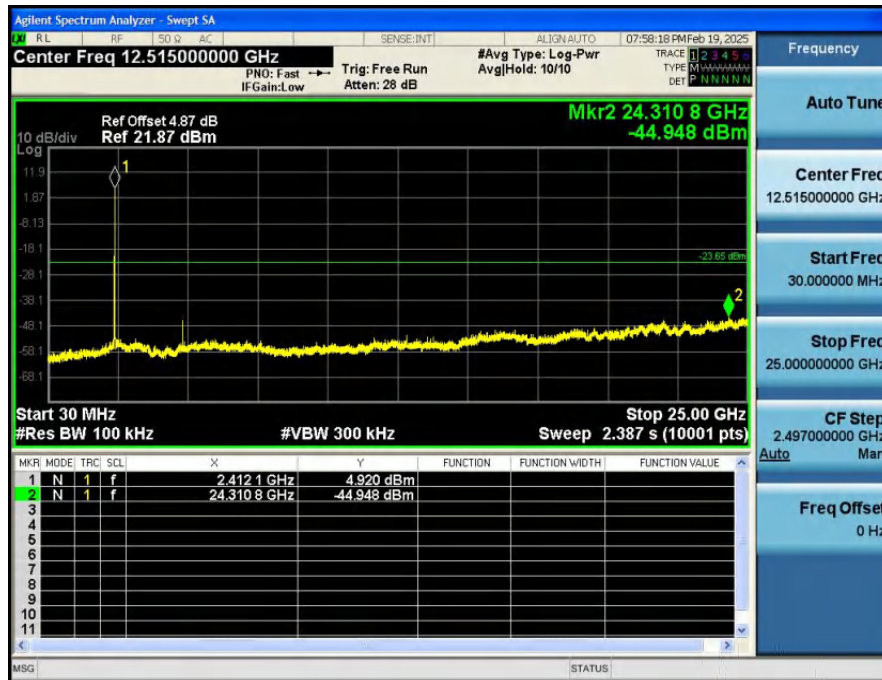
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437



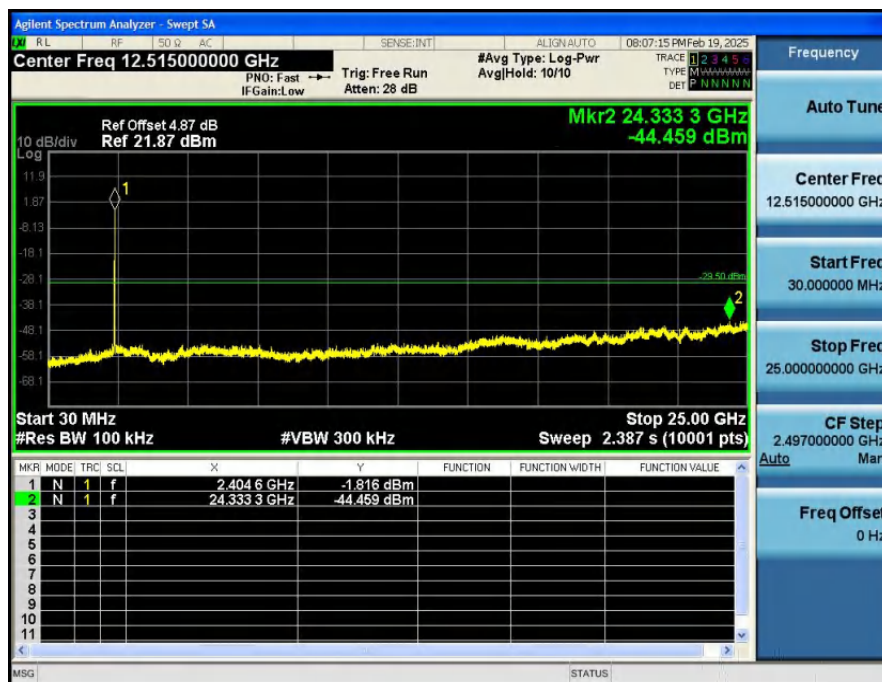
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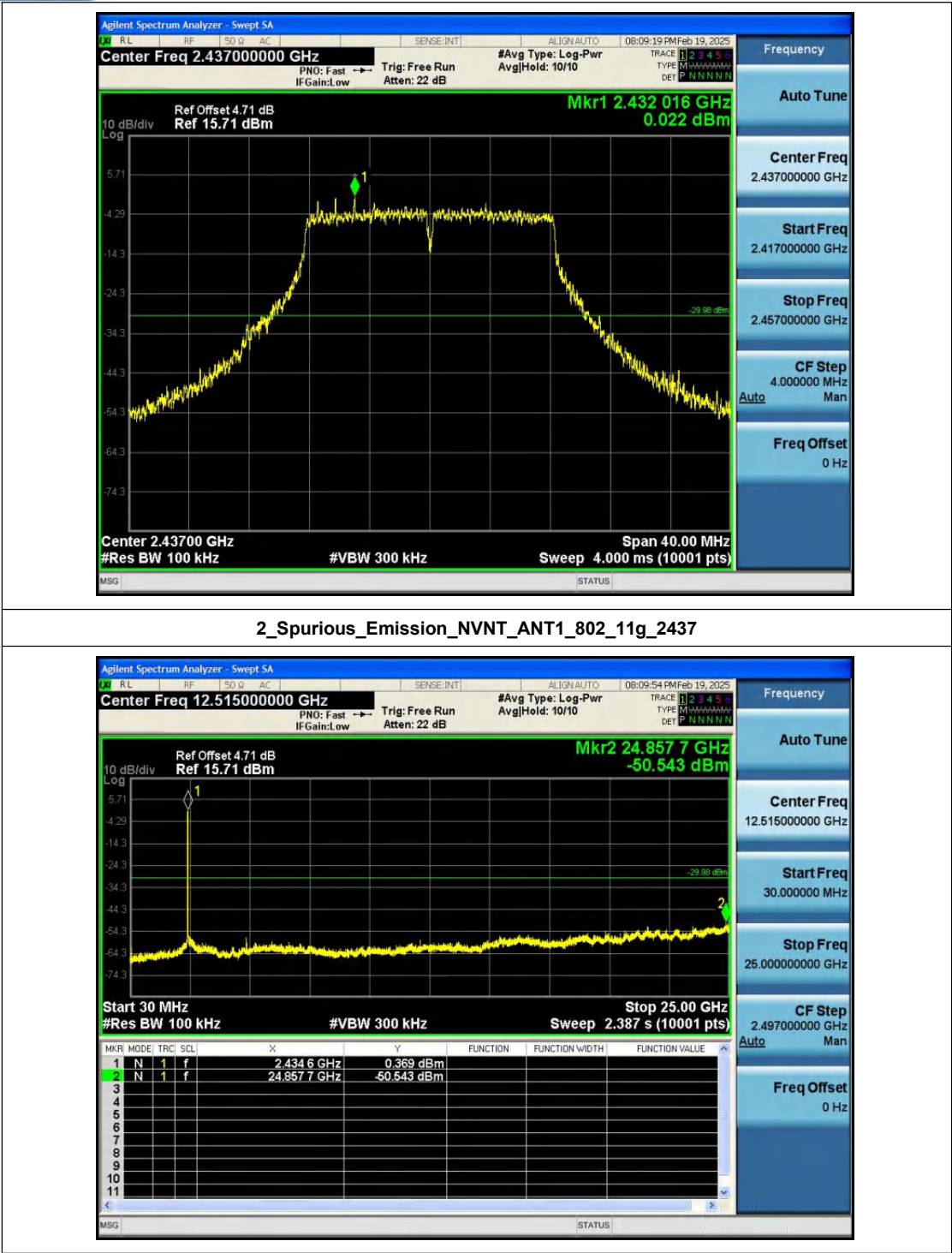
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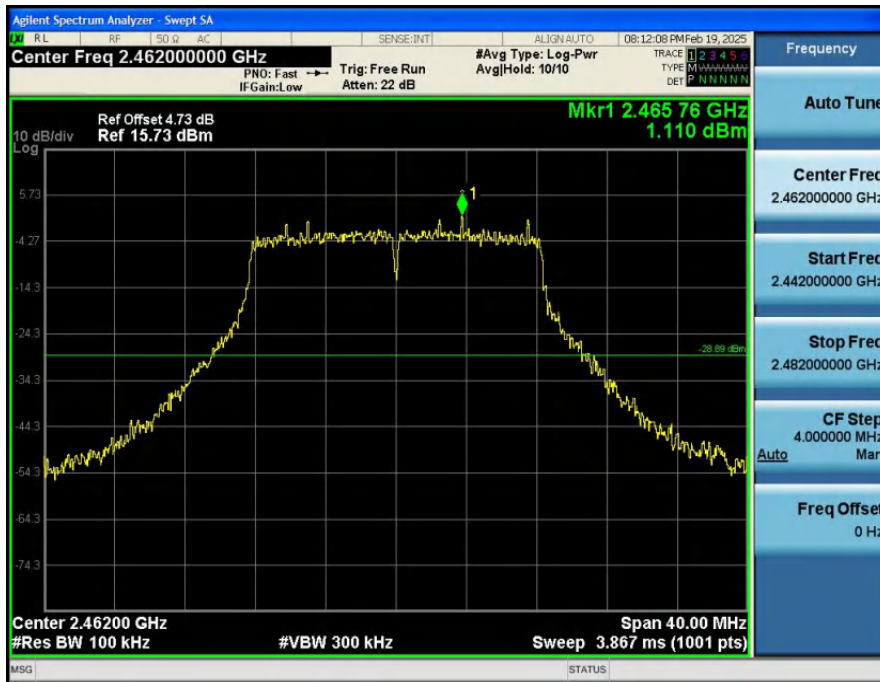
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



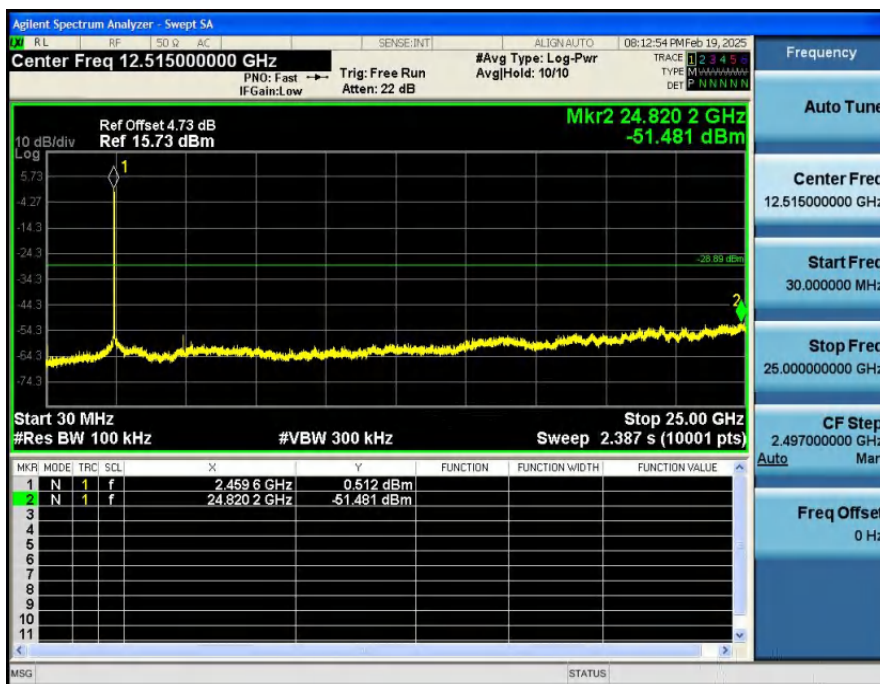
1 Reference Level NVNT ANT1 802 11g 2437



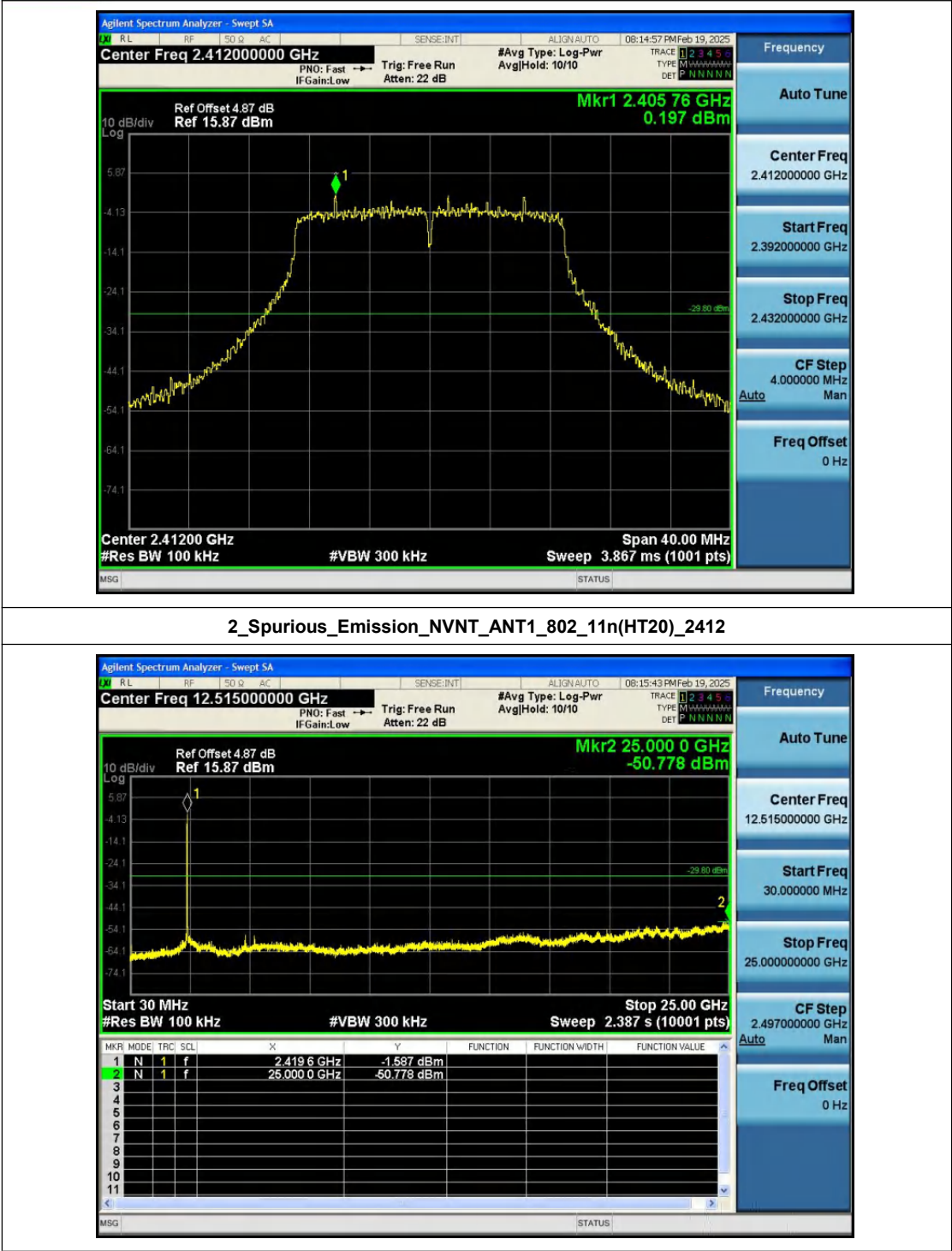
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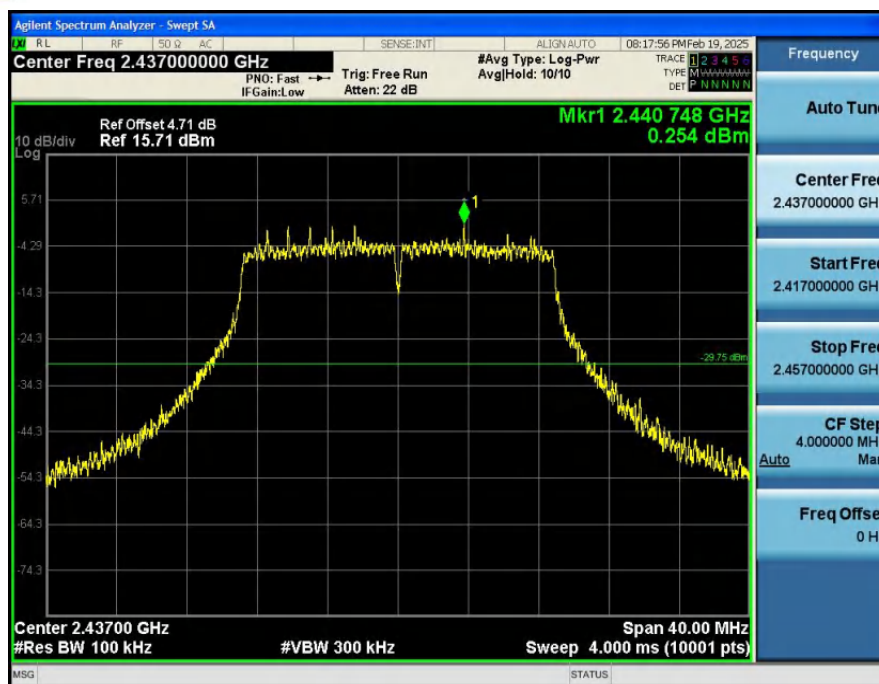


2_Spurious_Emission_NVNT_ANT1_802_11g_2462

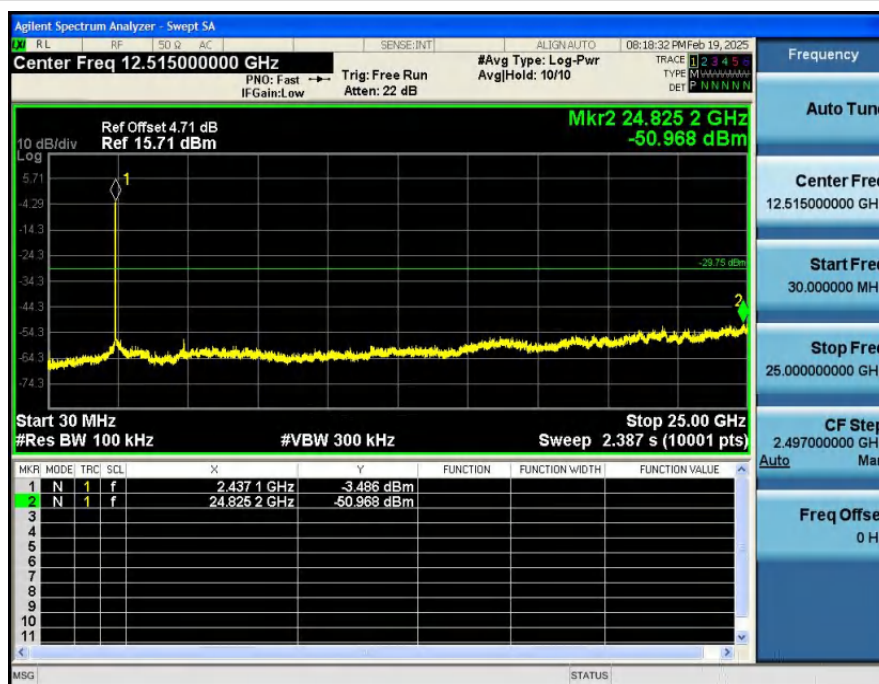


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

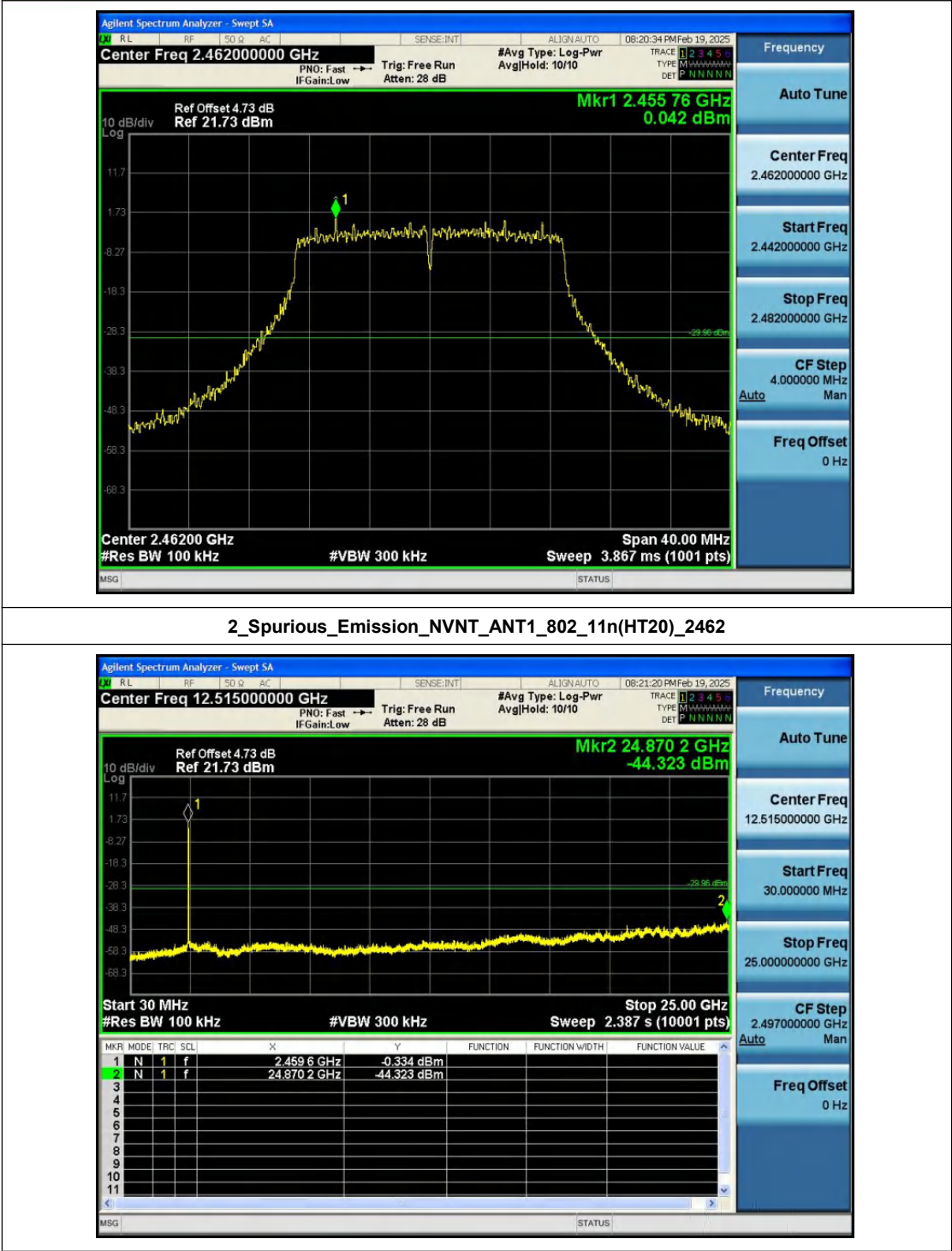




2 Spurious Emission NVNT ANT1 802 11n(HT20) 2437



1 Reference Level NVNT ANT1 802 11n(HT20) 2462



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