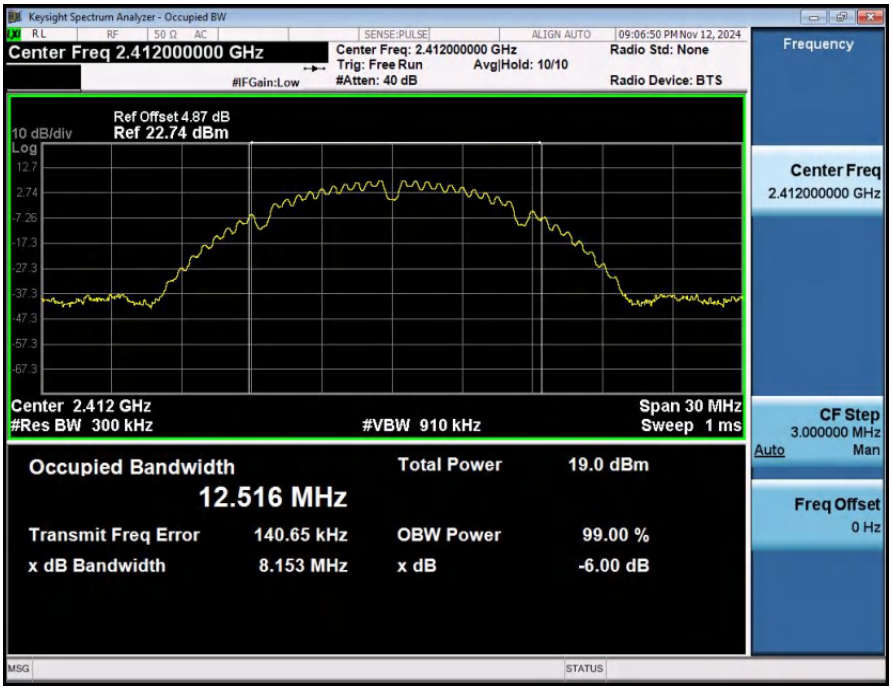
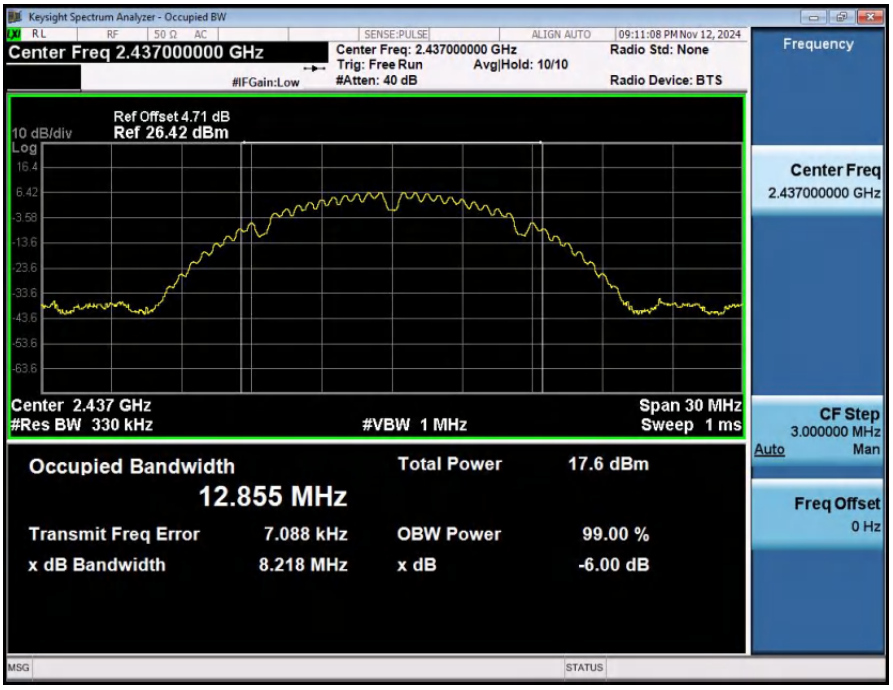
Appendix Test Data

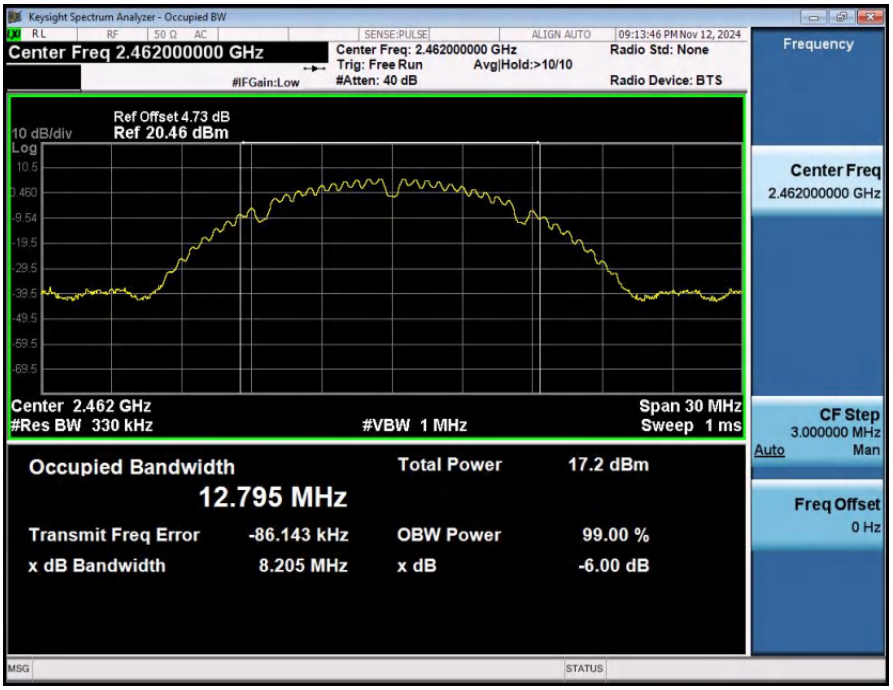
Report No.:	1812C40132012501	Test Sample No.:	1-2-2
Start Test Date:	2024.11.6	Finish Test Date:	2024.11.12
Test Engineer:	Jokes Huang	Auditor:	Justin Feng
Temperature:	22℃	Relative Humidity:	49%
Pressure:	101kPa		

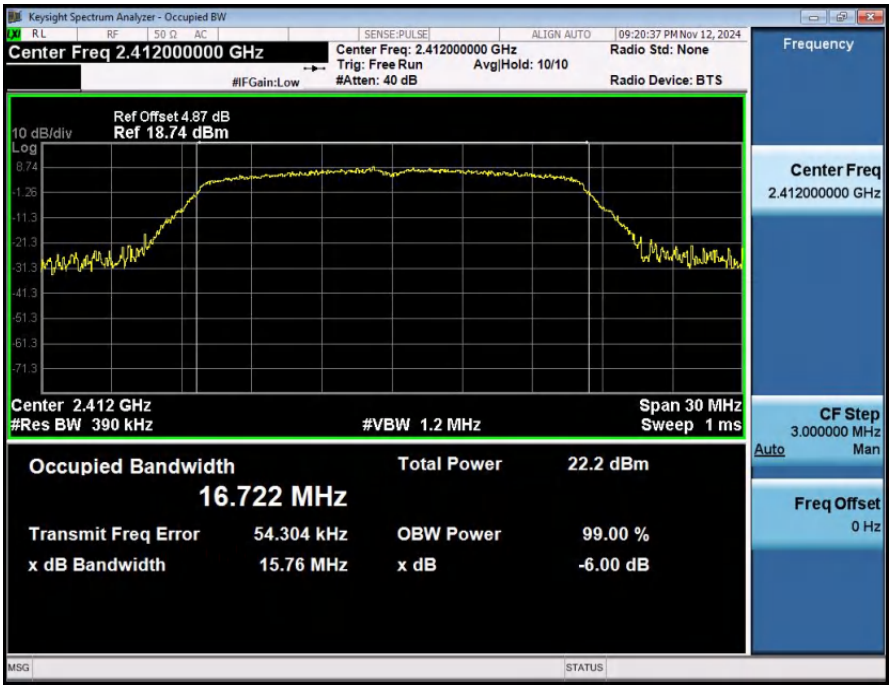
Appendix A: -6dB Bandwidth

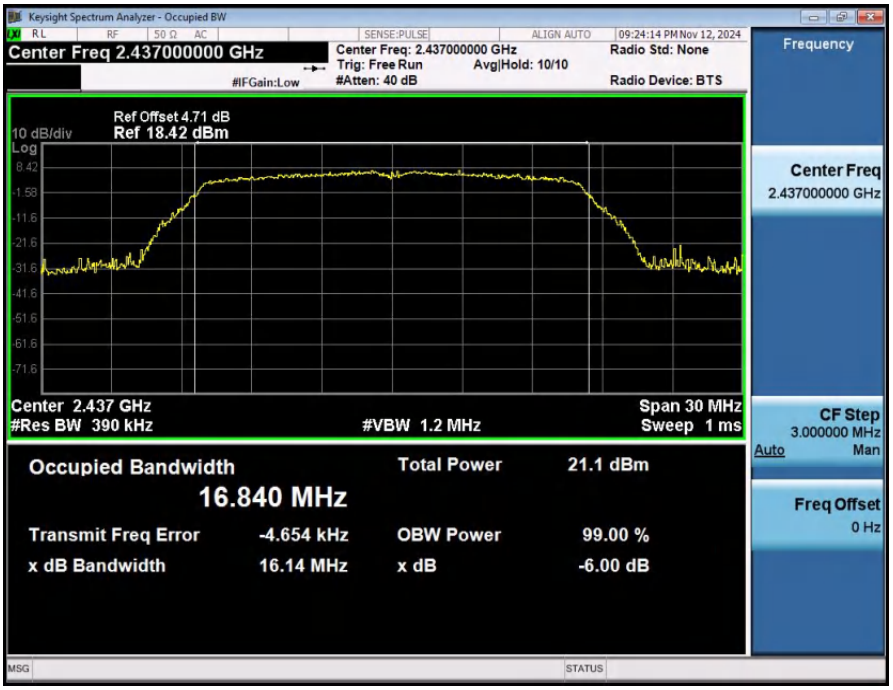
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.15	500	Pass
NVNT	ANT1	802.11b	2437.00	8.22	500	Pass
NVNT	ANT1	802.11b	2462.00	8.21	500	Pass
NVNT	ANT1	802.11g	2412.00	15.76	500	Pass
NVNT	ANT1	802.11g	2437.00	16.14	500	Pass
NVNT	ANT1	802.11g	2462.00	16.04	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	15.93	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.13	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.05	500	Pass

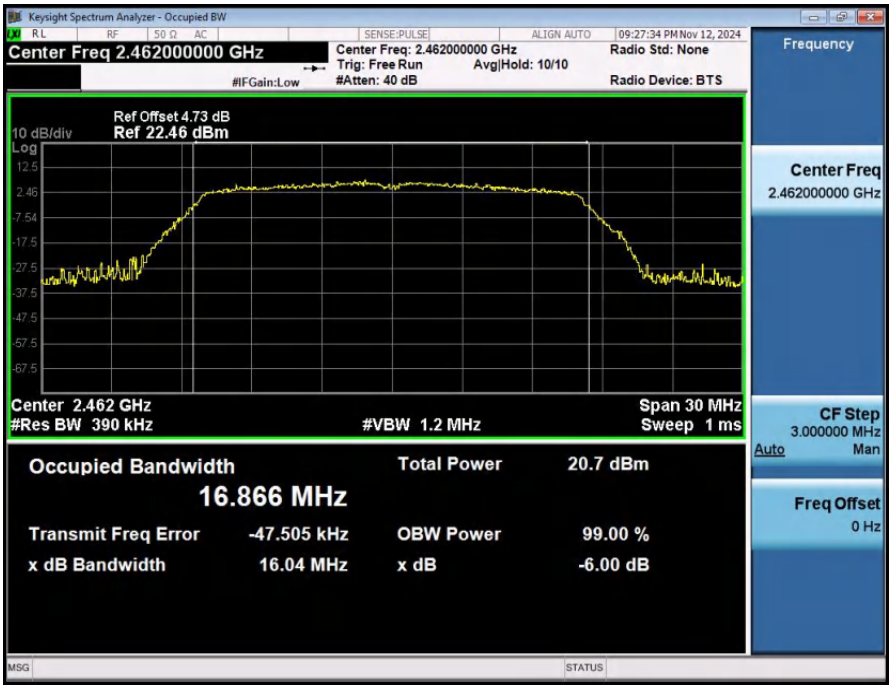
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412


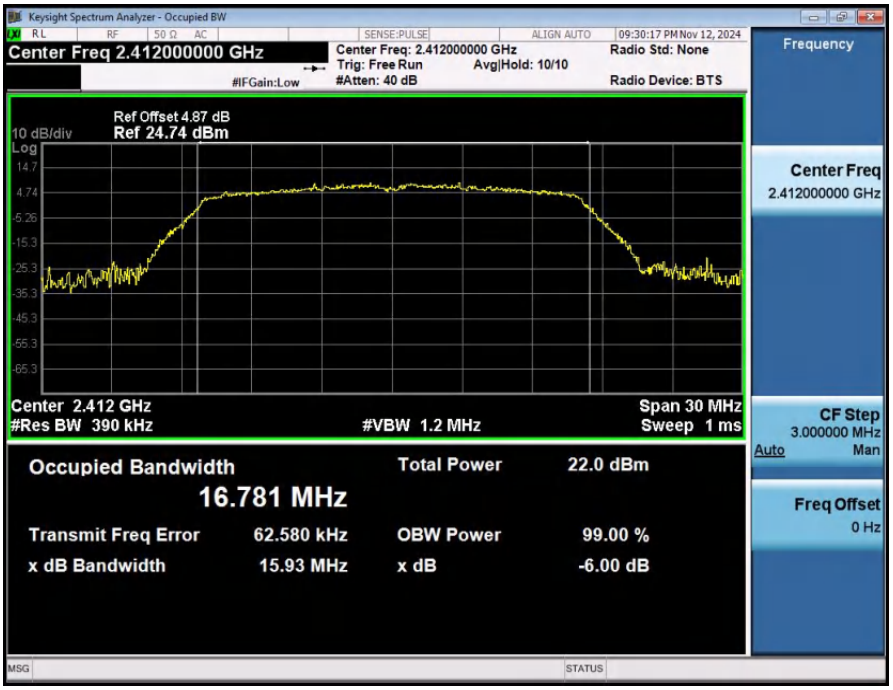
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437


-6dB_Bandwidth_NVNT_ANT1_802_11b_2462


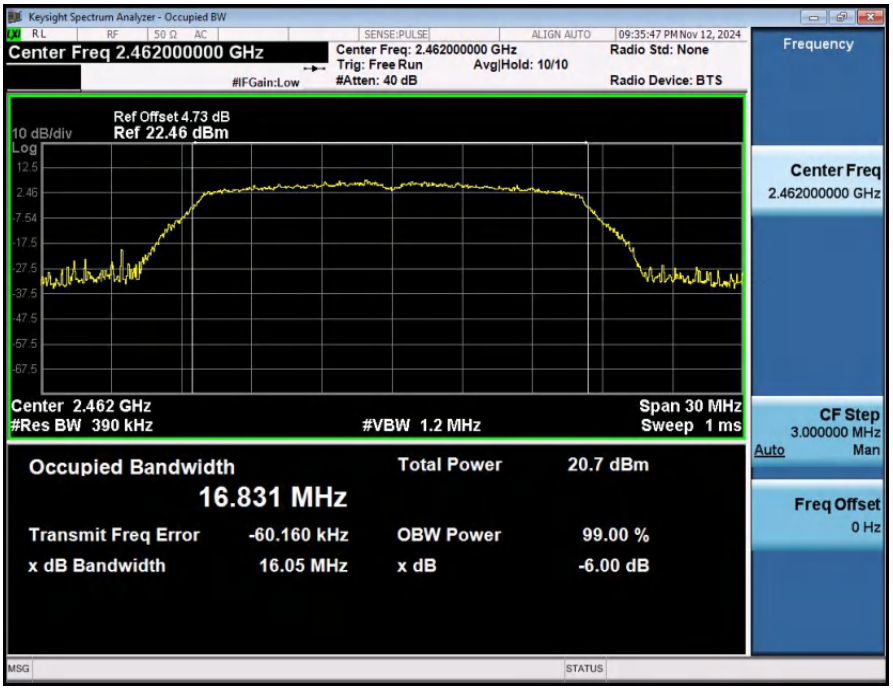
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412


-6dB_Bandwidth_NVNT_ANT1_802_11g_2437


-6dB_Bandwidth_NVNT_ANT1_802_11g_2462


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412


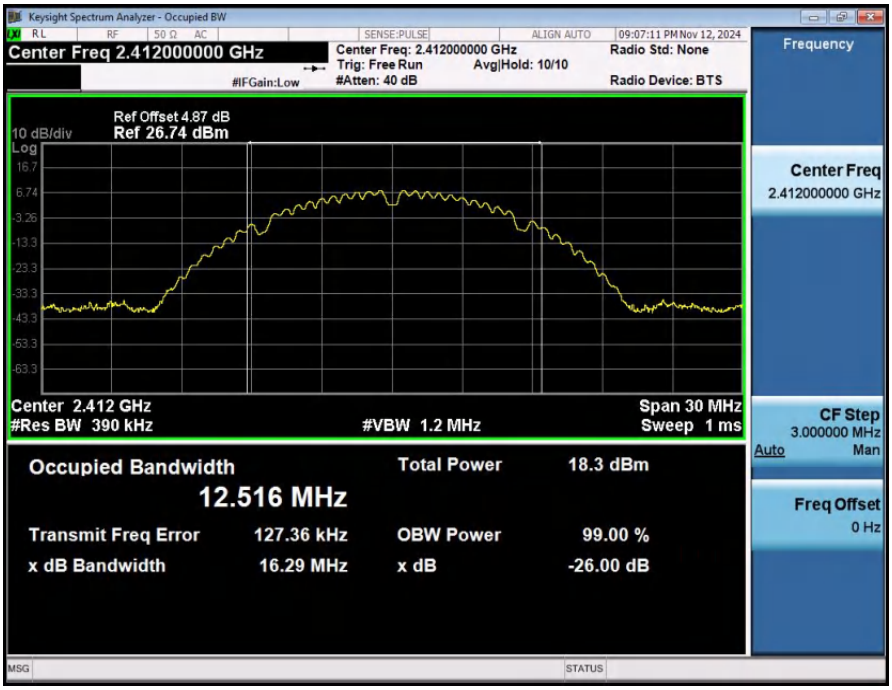
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

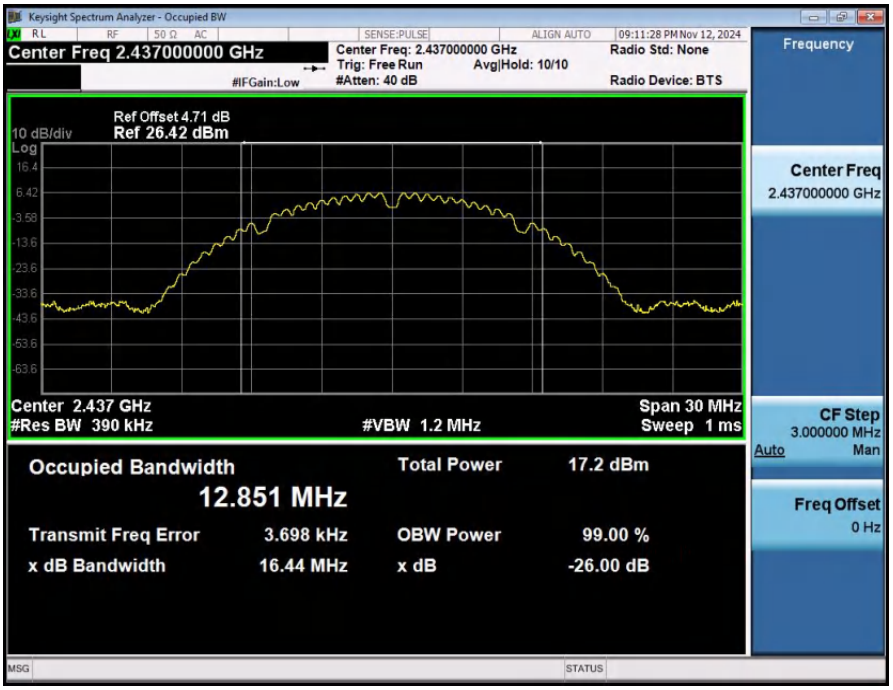

-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462


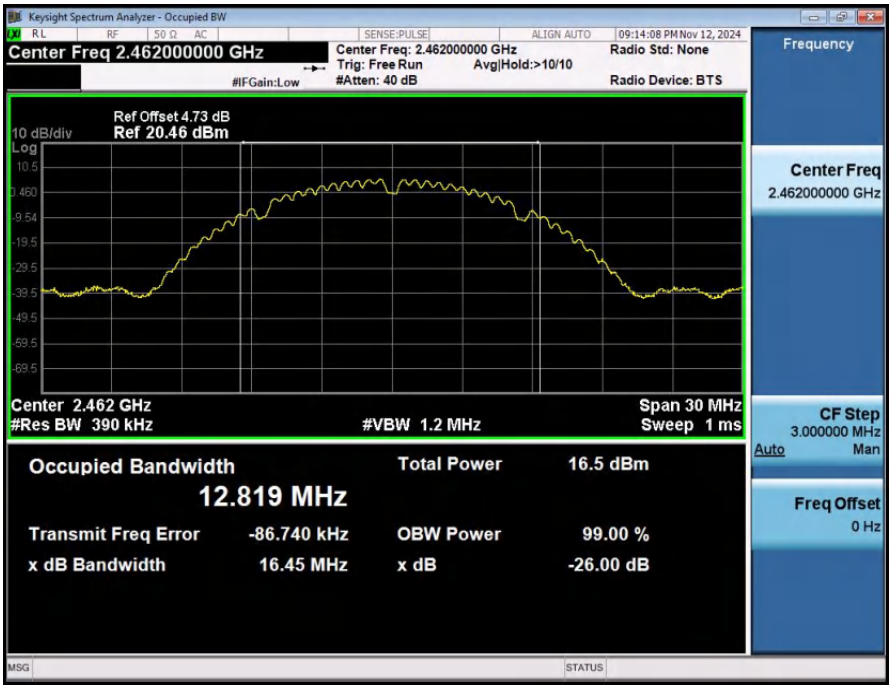
Appendix B: 99% Occupied Bandwidth

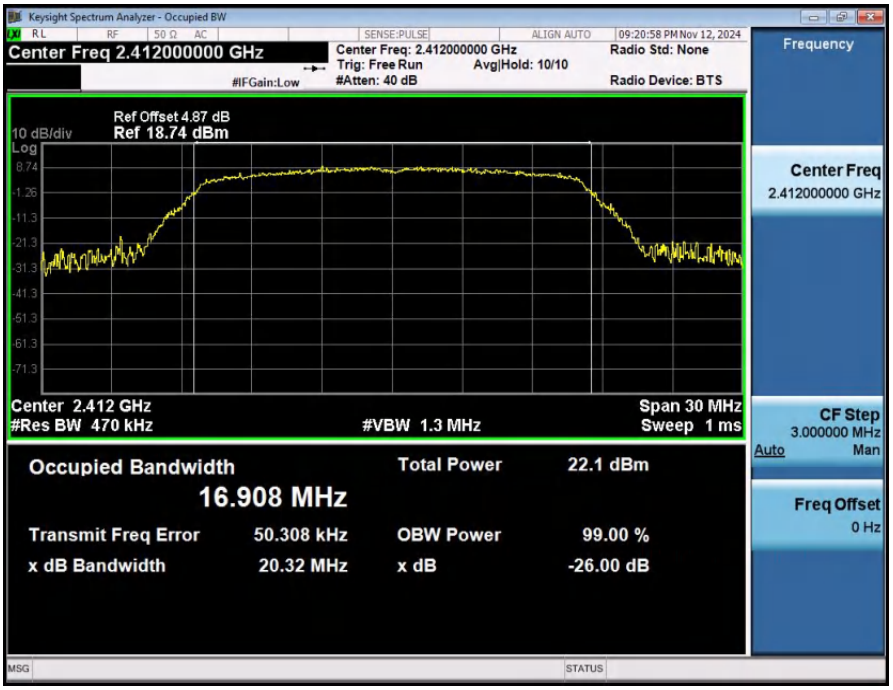
Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.516
NVNT	ANT1	802.11b	2437.00	12.851
NVNT	ANT1	802.11b	2462.00	12.819
NVNT	ANT1	802.11g	2412.00	16.908
NVNT	ANT1	802.11g	2437.00	17.043
NVNT	ANT1	802.11g	2462.00	17.024
NVNT	ANT1	802.11n(HT20)	2412.00	16.952
NVNT	ANT1	802.11n(HT20)	2437.00	17.041
NVNT	ANT1	802.11n(HT20)	2462.00	17.019

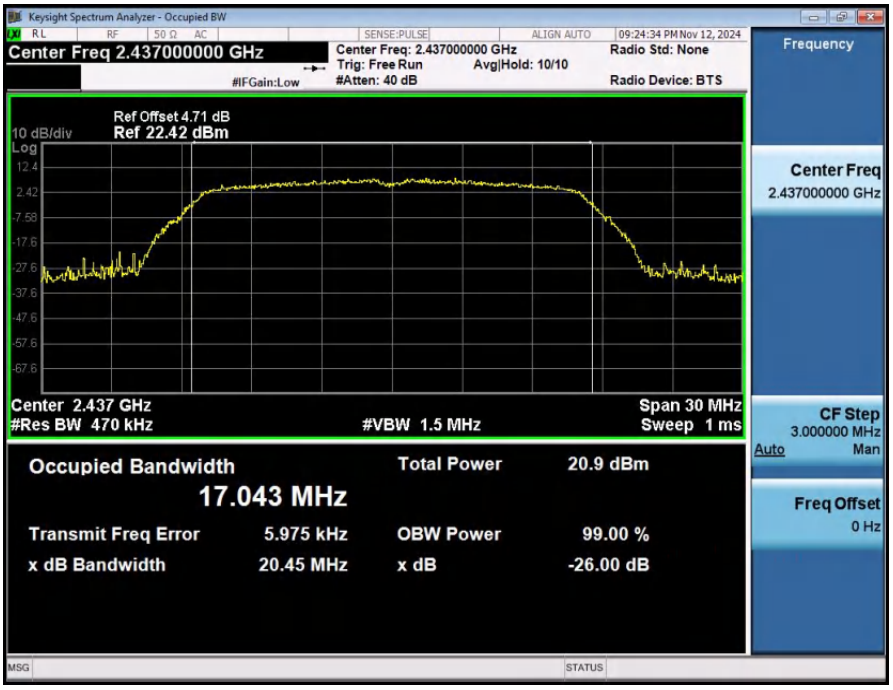
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

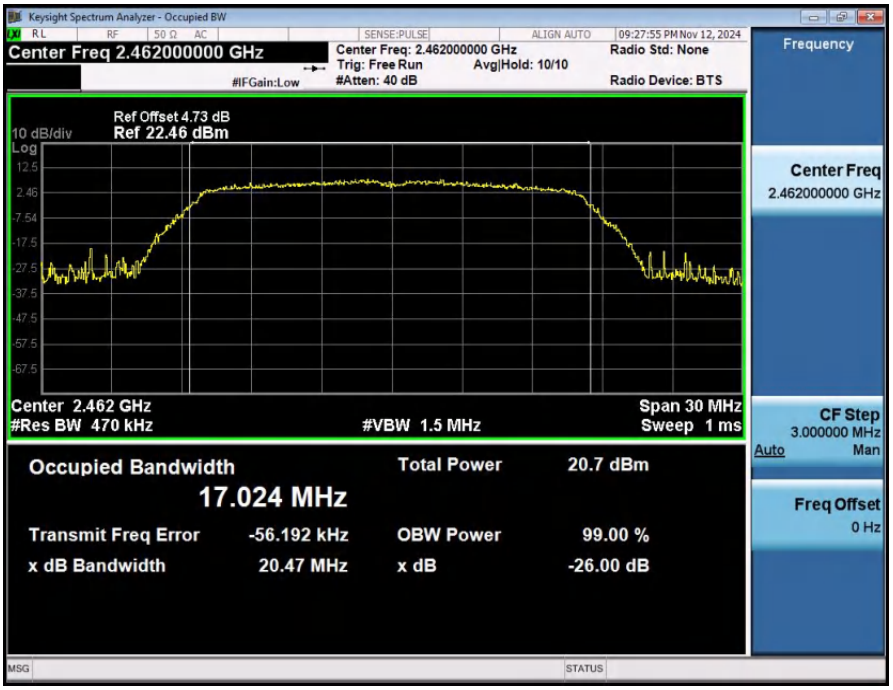


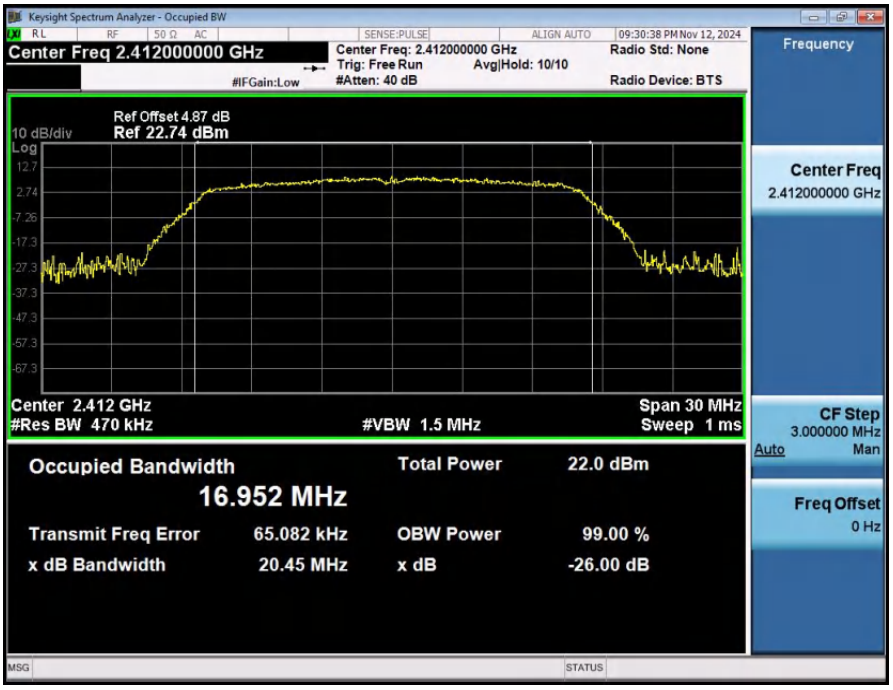
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437


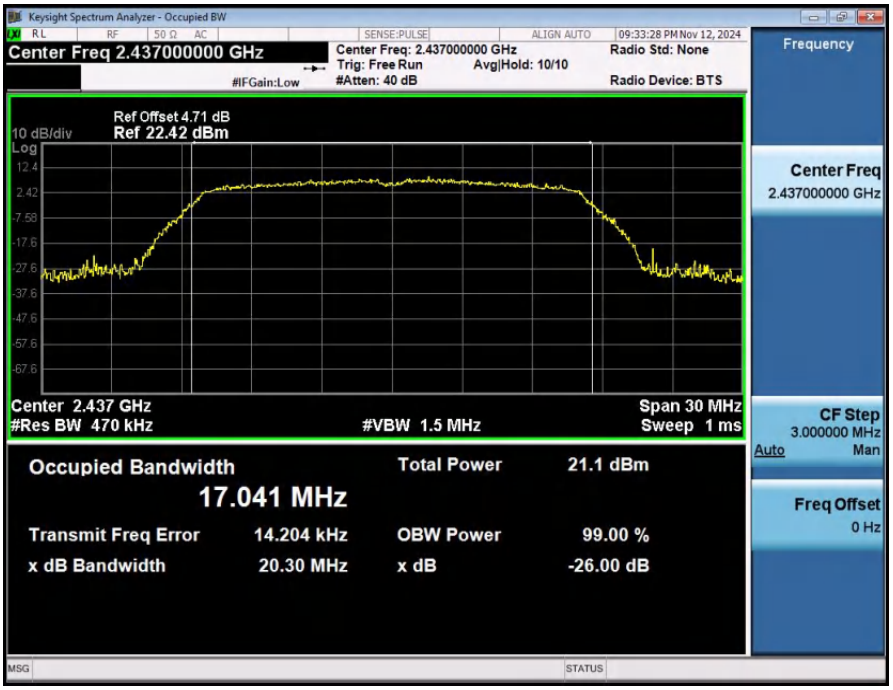
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462


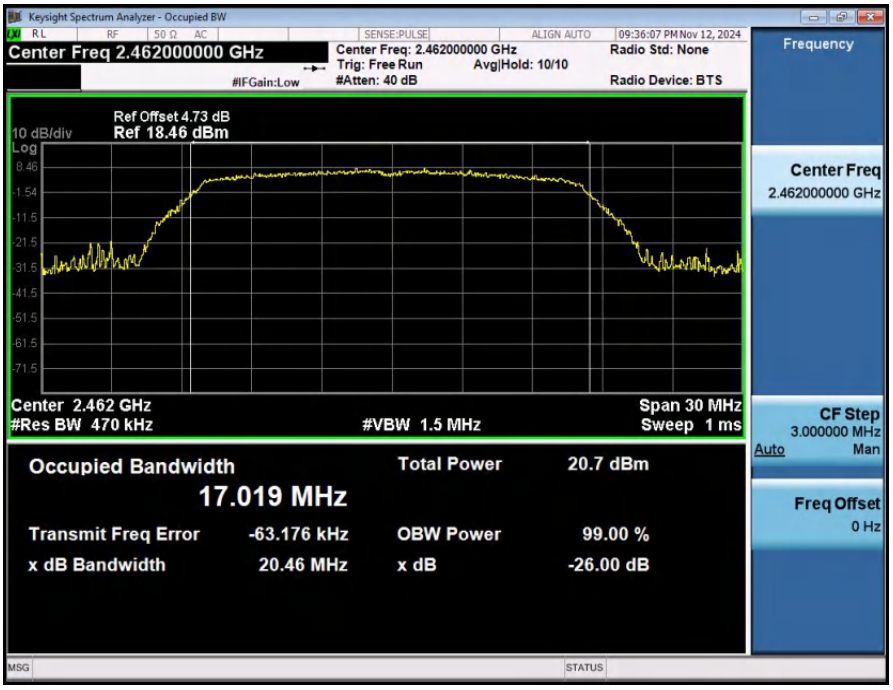
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412


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


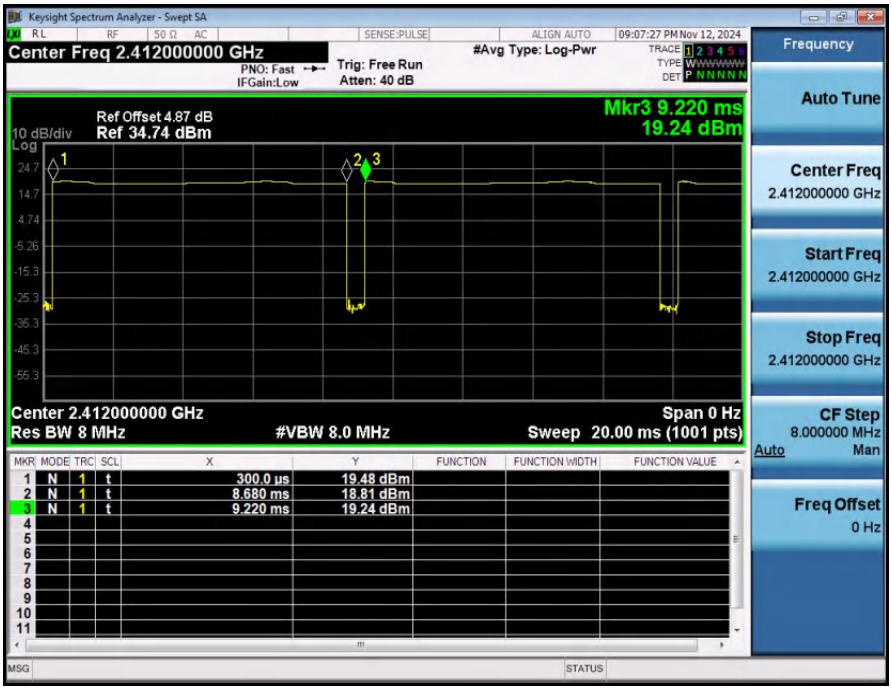
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437


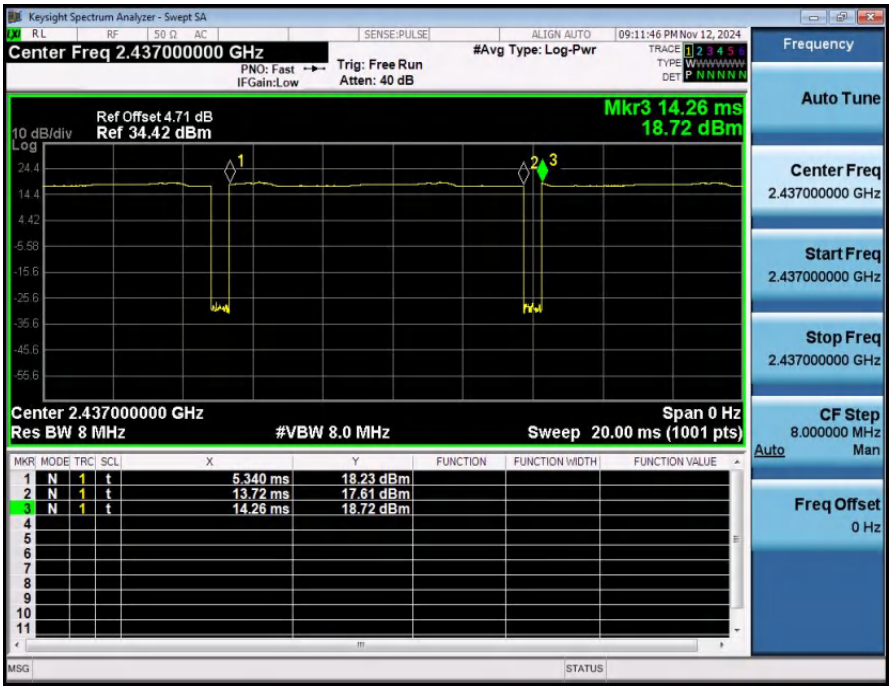
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462


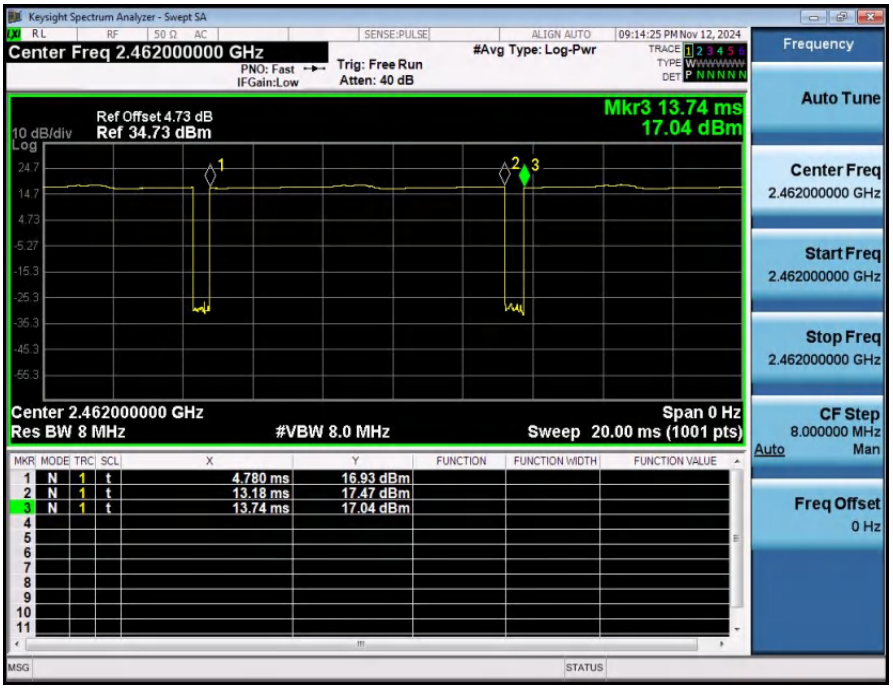
Appendix C: Duty Cycle

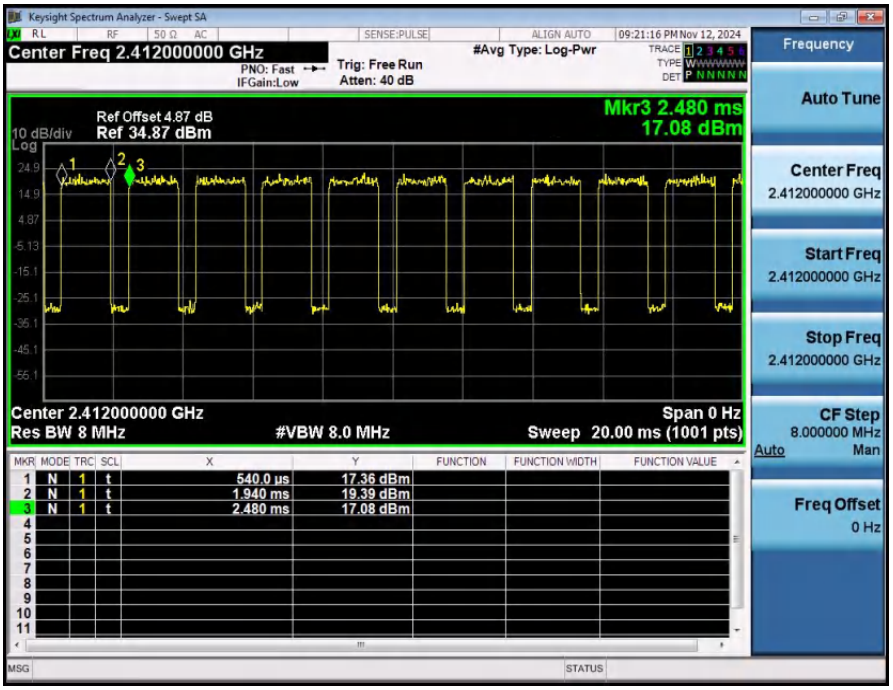
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	93.95	0.27
NVNT	ANT1	802.11b	2437.00	94.17	0.26
NVNT	ANT1	802.11b	2462.00	93.97	0.27
NVNT	ANT1	802.11g	2412.00	73.20	1.36
NVNT	ANT1	802.11g	2437.00	72.16	1.42
NVNT	ANT1	802.11g	2462.00	74.74	1.26
NVNT	ANT1	802.11n(HT20)	2412.00	72.63	1.39
NVNT	ANT1	802.11n(HT20)	2437.00	73.20	1.36
NVNT	ANT1	802.11n(HT20)	2462.00	72.92	1.37

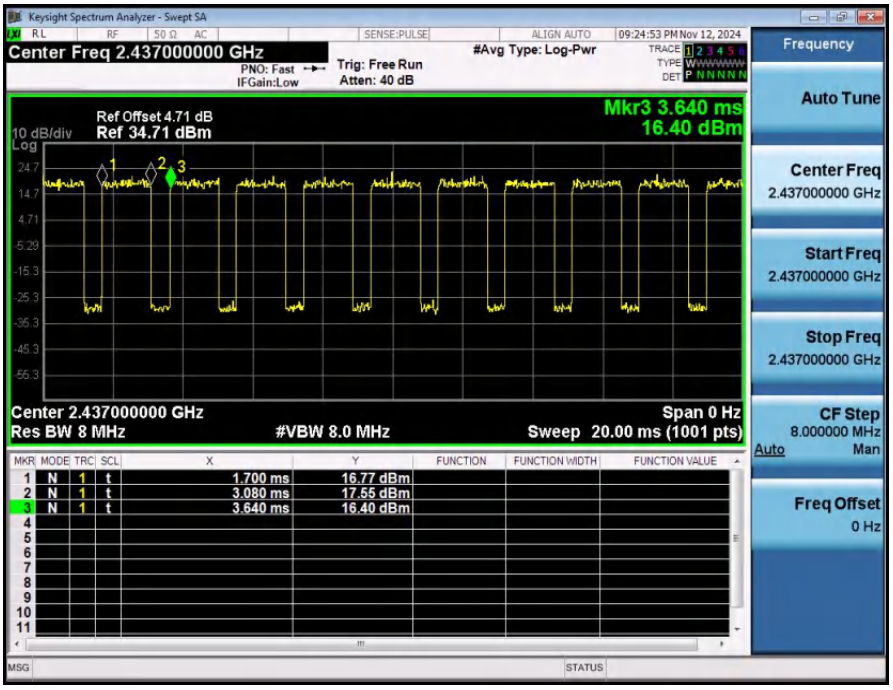
Duty_Cycle_NVNT_ANT1_802_11b_2412

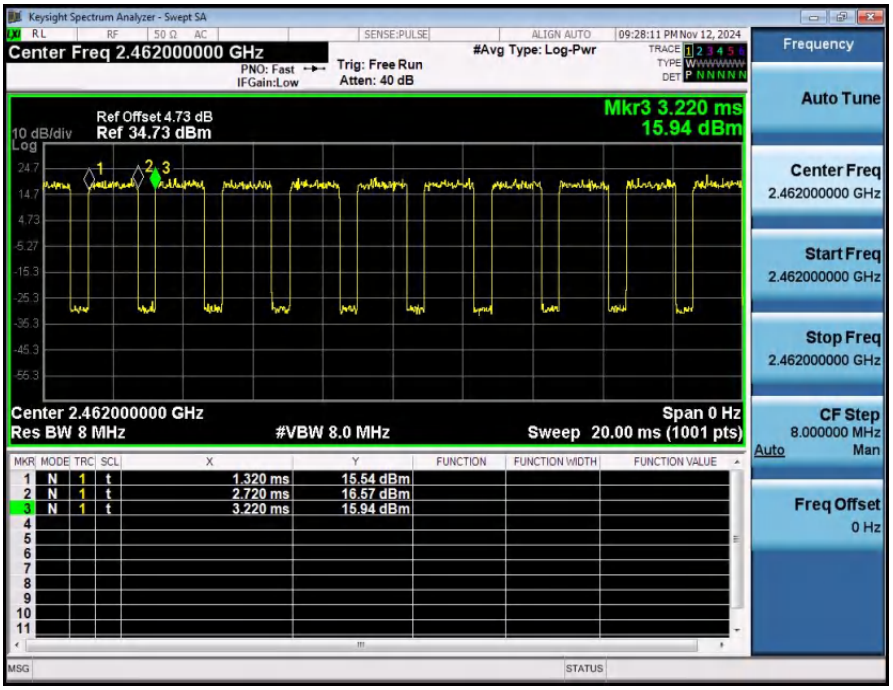


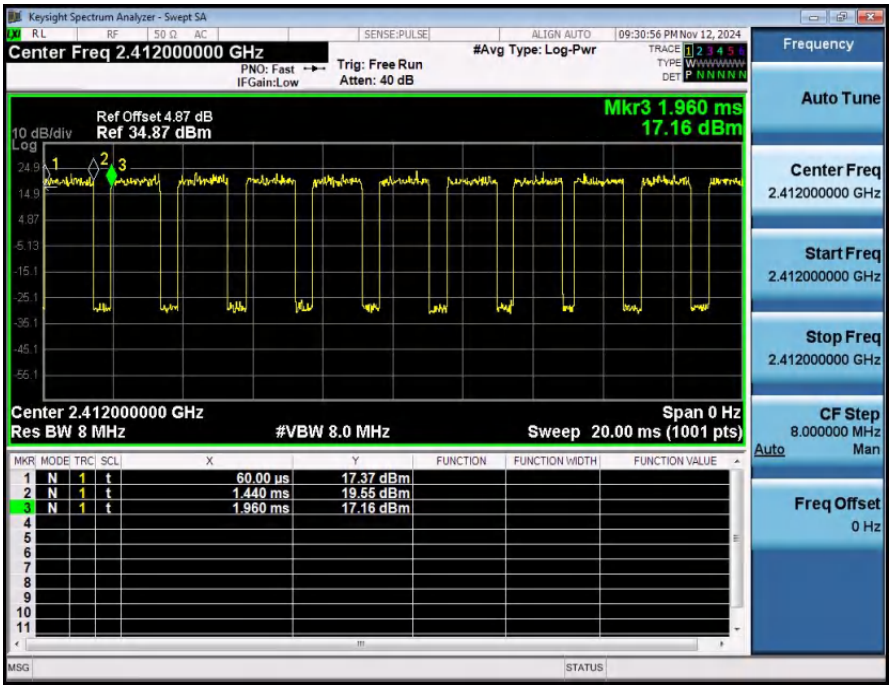
Duty_Cycle_NVNT_ANT1_802_11b_2437


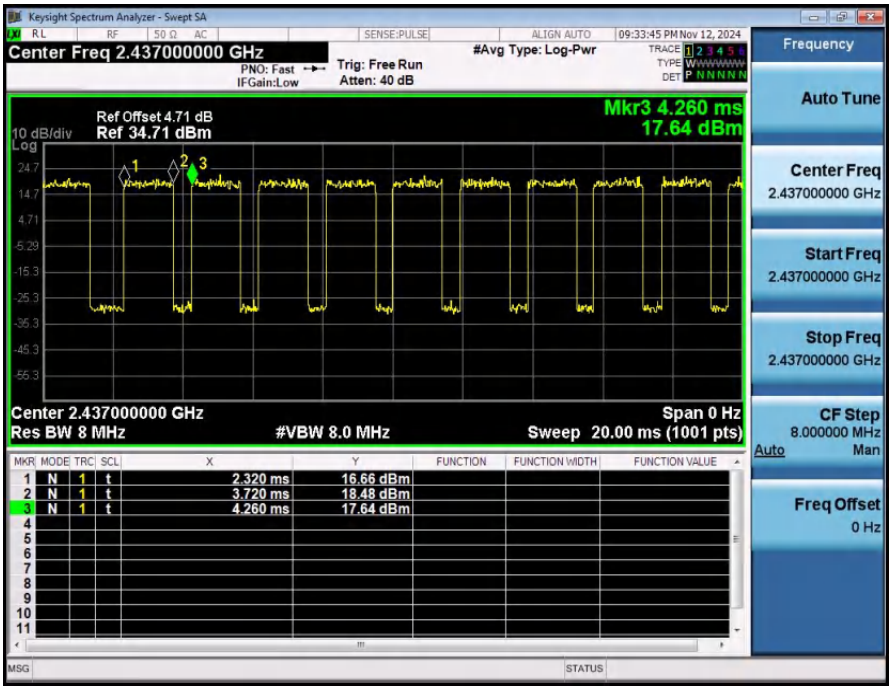
Duty_Cycle_NVNT_ANT1_802_11b_2462


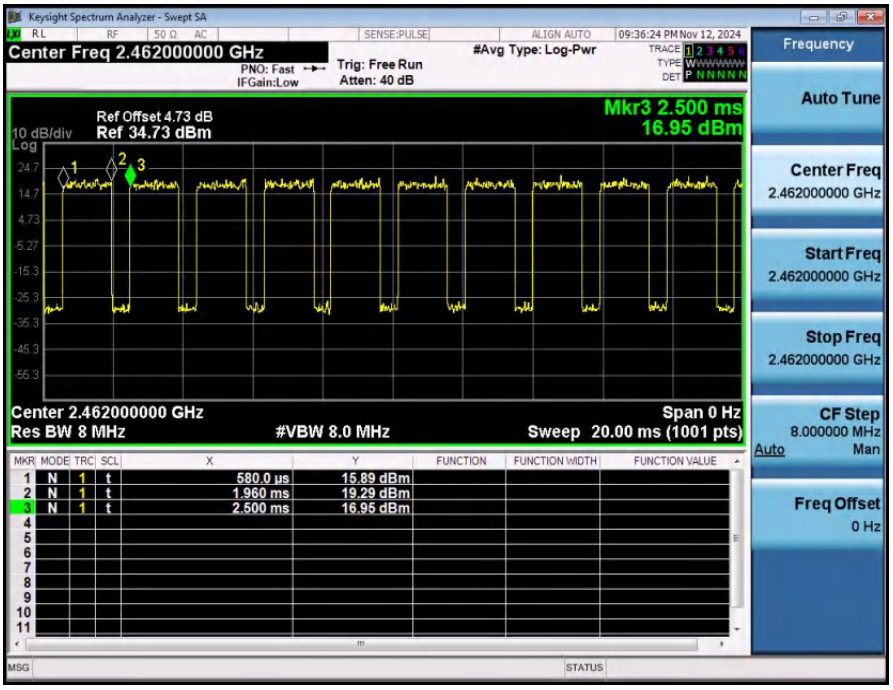
Duty_Cycle_NVNT_ANT1_802_11g_2412


Duty_Cycle_NVNT_ANT1_802_11g_2437


Duty_Cycle_NVNT_ANT1_802_11g_2462


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412


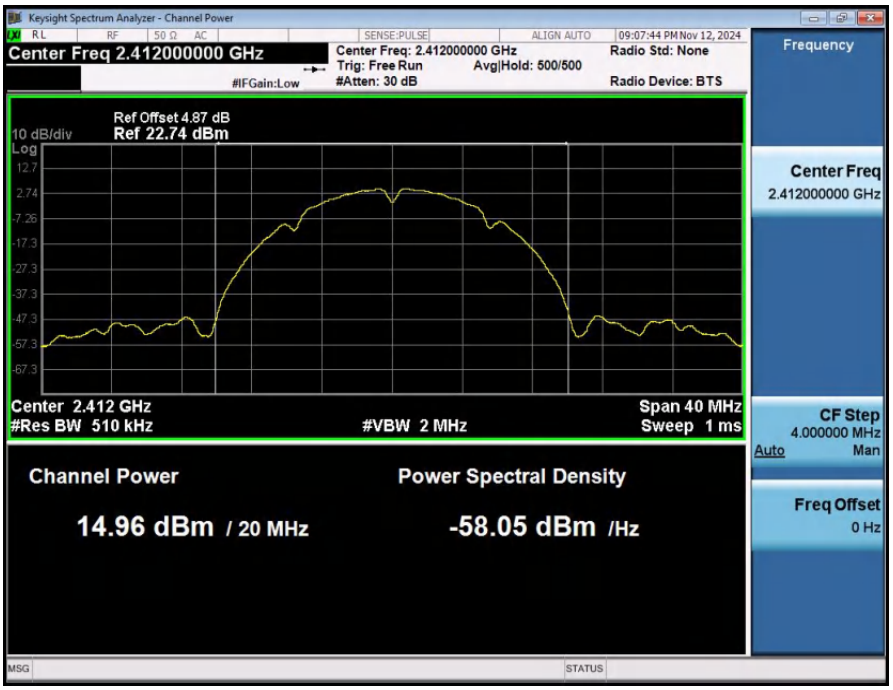
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437


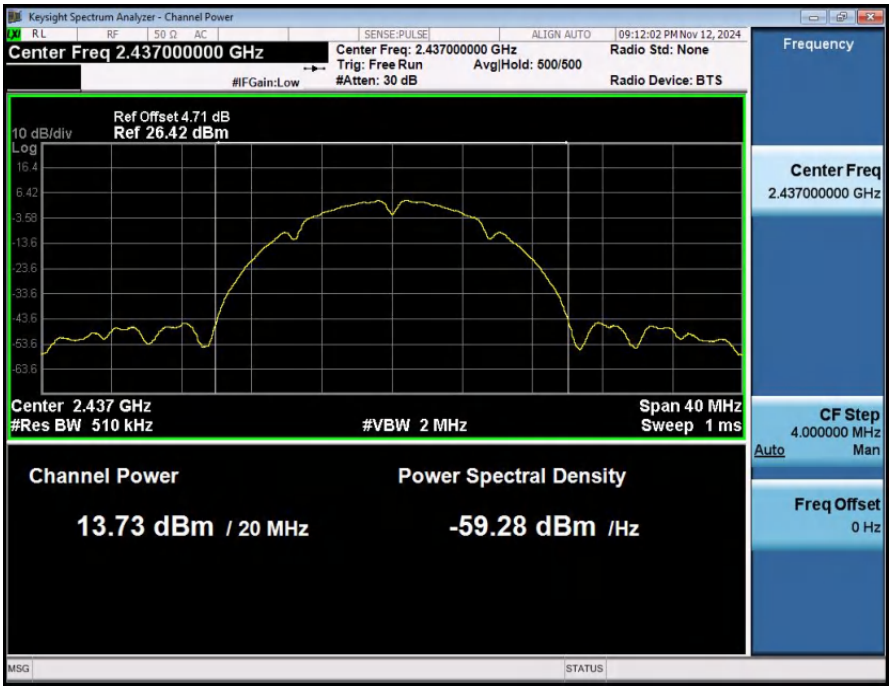
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462


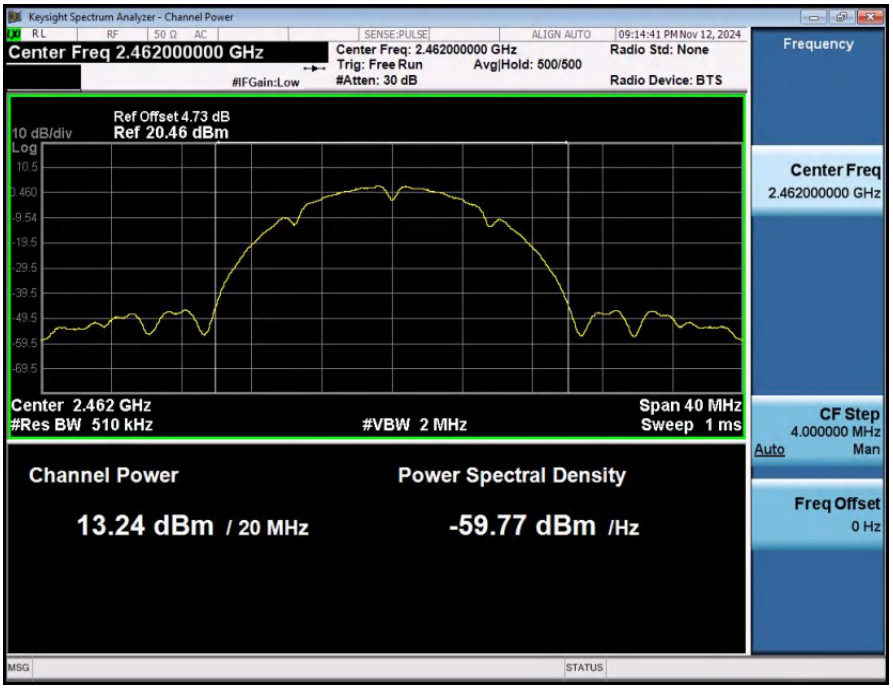
Appendix D: MAX. Output Power

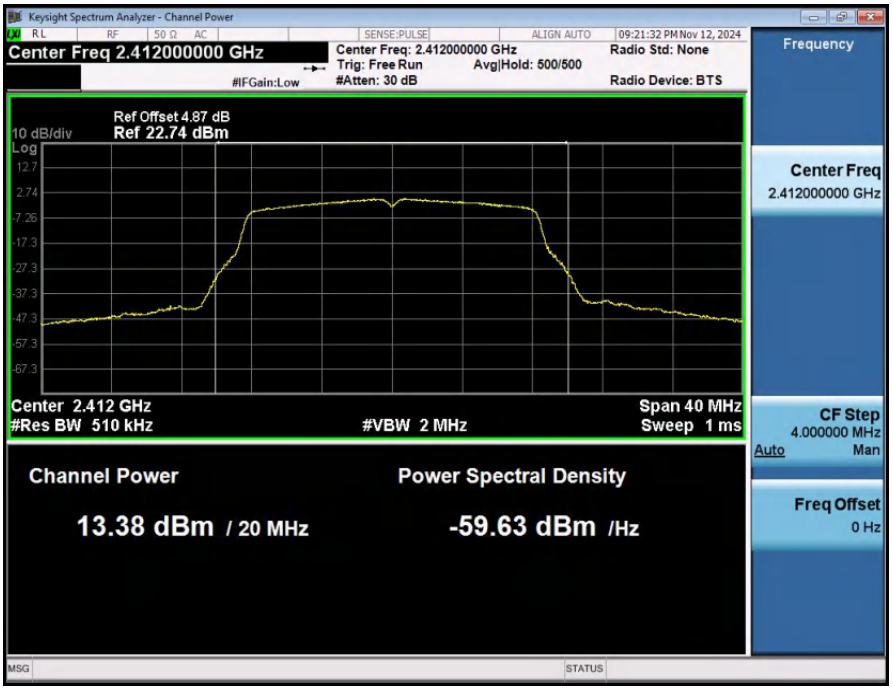
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power (dBm)	Duty factor (dB)	Total Power (dBm)	Limit (dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	14.96	0.27	15.23	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.73	0.26	13.99	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.24	0.27	13.51	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.38	1.36	14.74	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	12.43	1.42	13.85	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.31	1.26	13.57	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	13.37	1.39	14.76	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	12.59	1.36	13.95	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	12.08	1.37	13.45	30	Pass

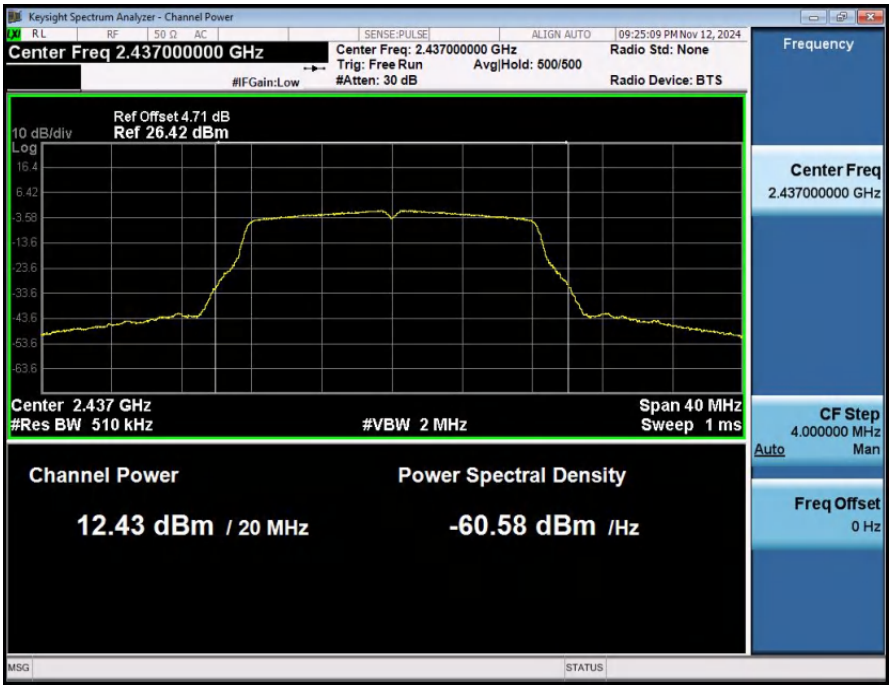
MAX__Output_Power_NVNT_ANT1_802_11b_2412

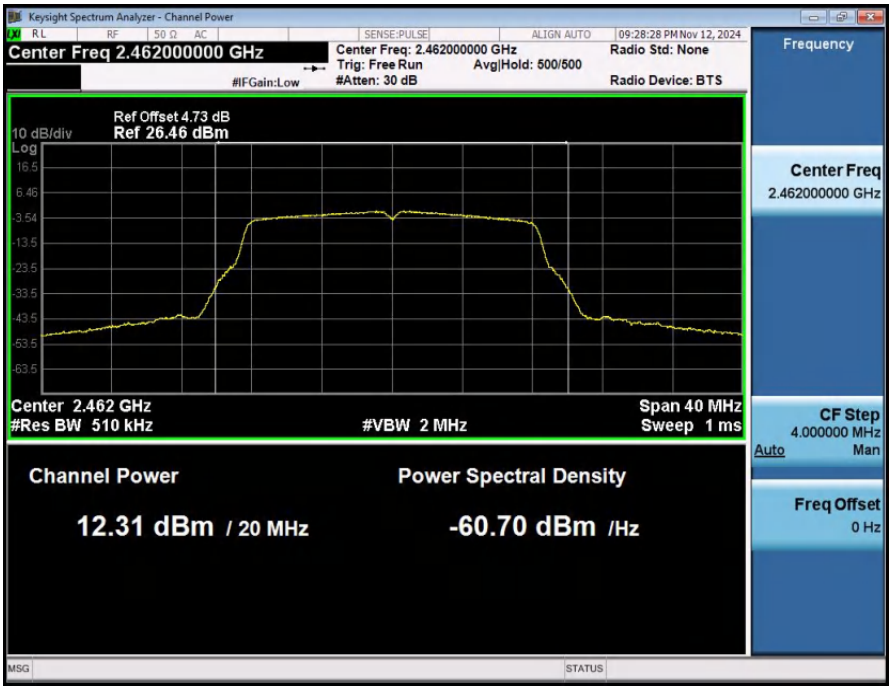


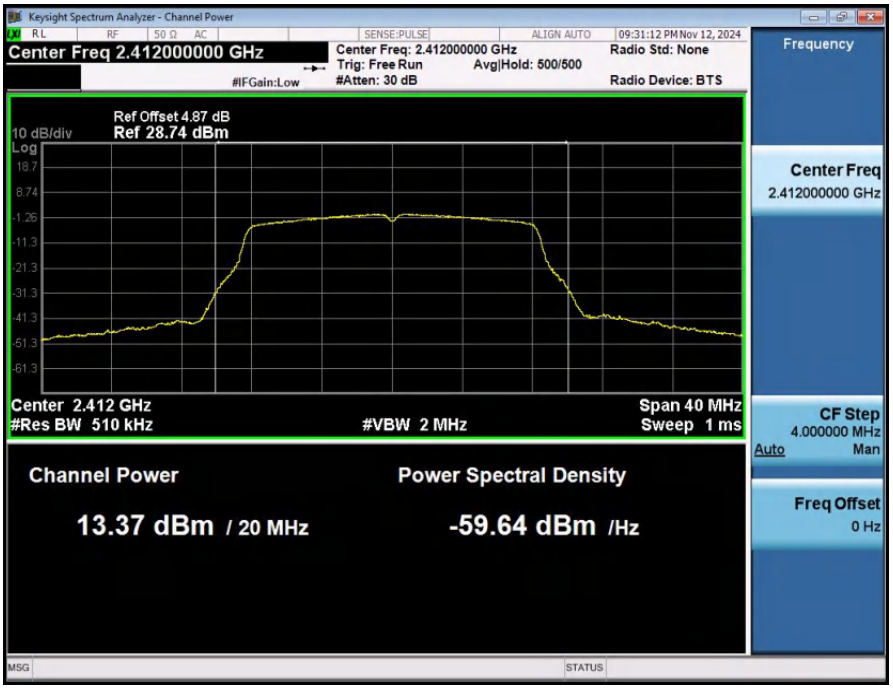
MAX__Output_Power_NVNT_ANT1_802_11b_2437


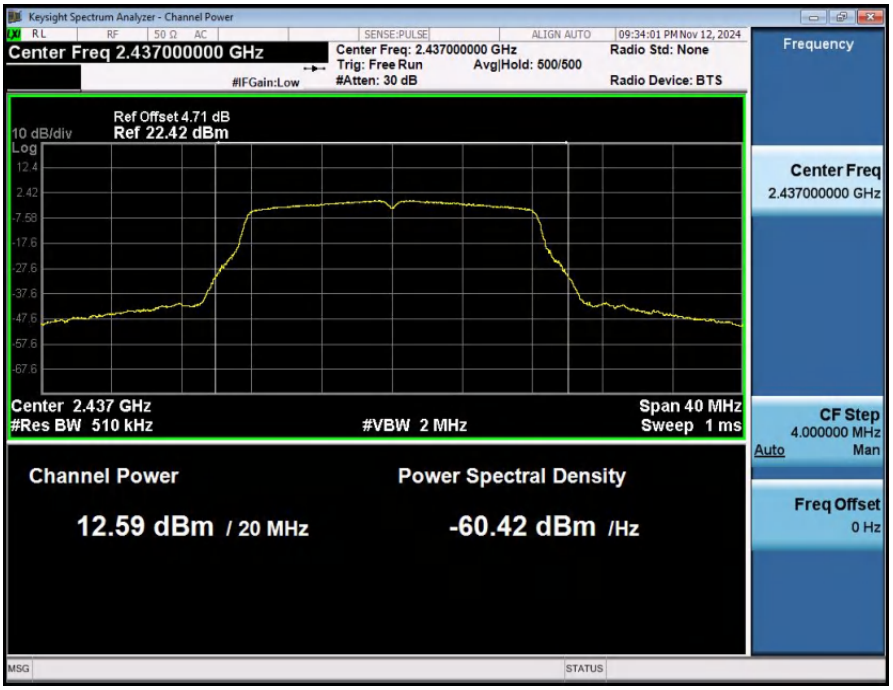
MAX__Output_Power_NVNT_ANT1_802_11b_2462


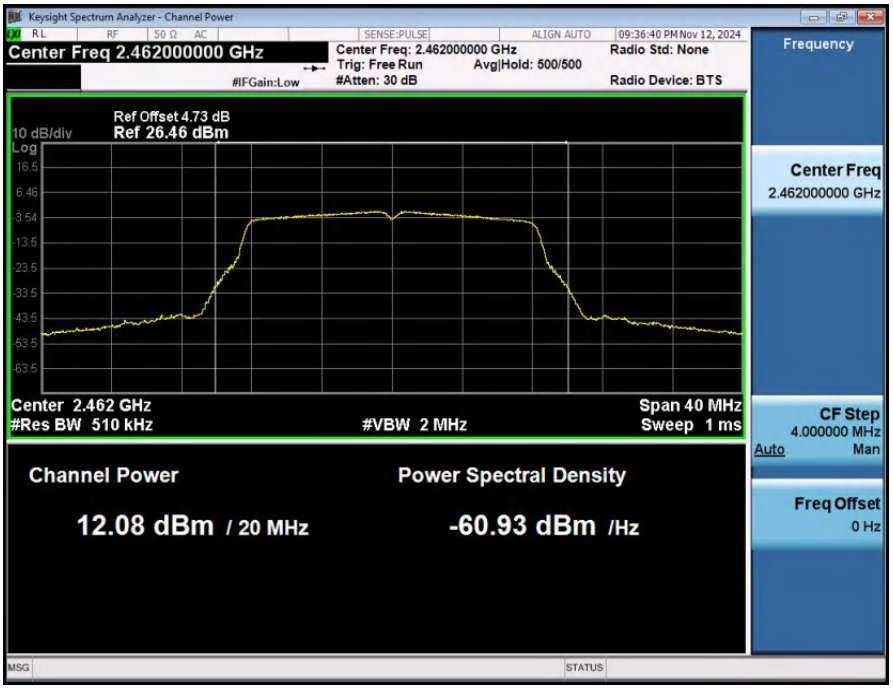
MAX__Output_Power_NVNT_ANT1_802_11g_2412


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


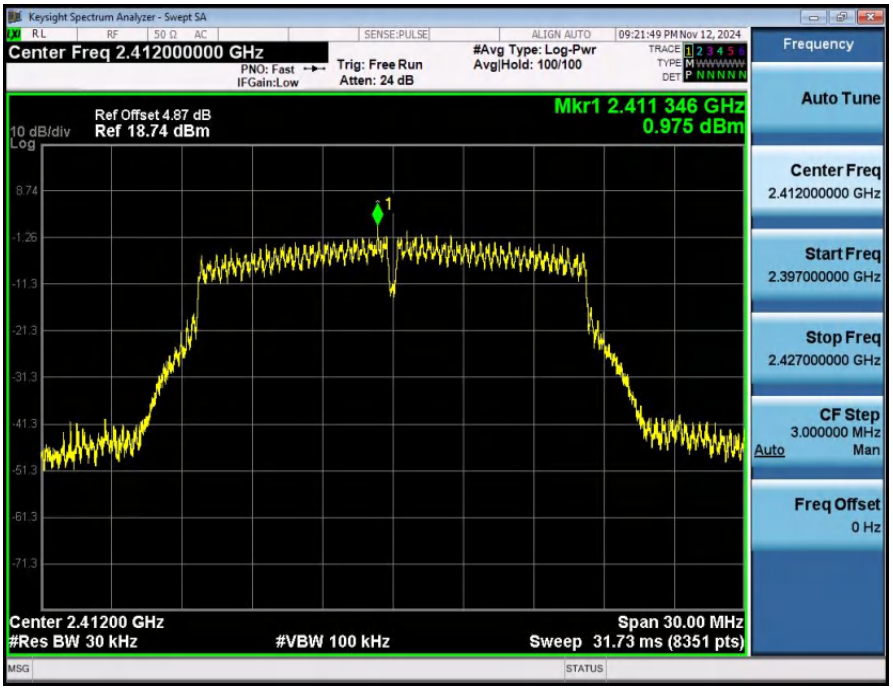
Appendix E: Power Spectral Density

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	2.93	0.27	-10.00	-6.8	8	Pass
NVNT	ANT1	802.11b	2437.00	2.79	0.26	-10.00	-6.95	8	Pass
NVNT	ANT1	802.11b	2462.00	1.86	0.27	-10.00	-7.87	8	Pass
NVNT	ANT1	802.11g	2412.00	0.97	1.36	-10.00	-7.67	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.80	1.42	-10.00	-10.38	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.49	1.26	-10.00	-10.23	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	0.41	1.39	-10.00	-8.2	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.15	1.36	-10.00	-9.79	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.73	1.37	-10.00	-10.36	8	Pass

Power_Spectral_Density_NVNT_ANT1_802_11b_2412

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

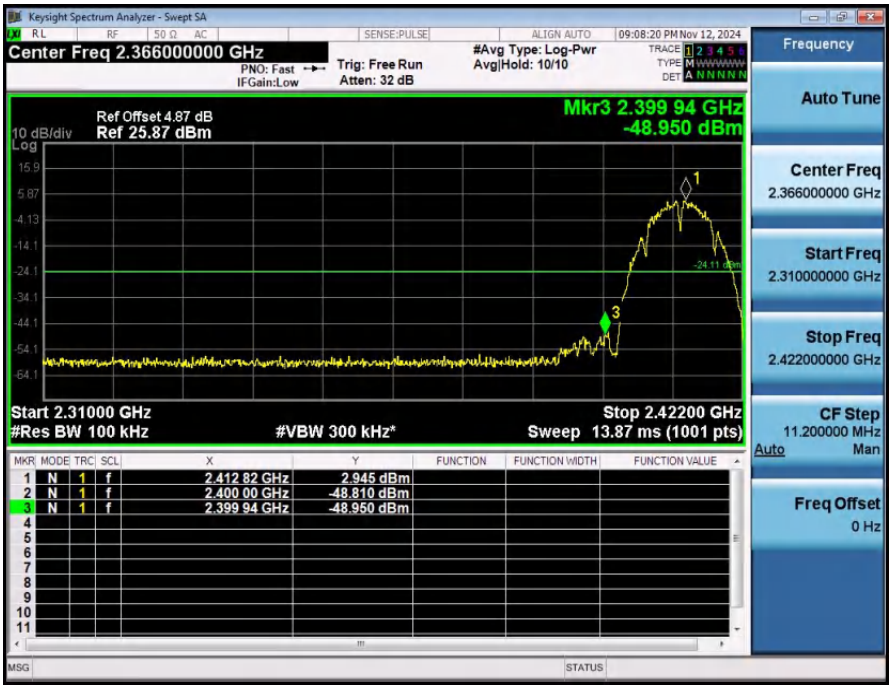

Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462


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	2399.936	-48.950	-24.109	Pass
NVNT	ANT1	802.11b	2462.00	2485.936	-55.997	-26.445	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-41.706	-29.014	Pass
NVNT	ANT1	802.11g	2462.00	2485.120	-49.540	-30.265	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2397.024	-39.710	-27.162	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.776	-48.371	-29.008	Pass

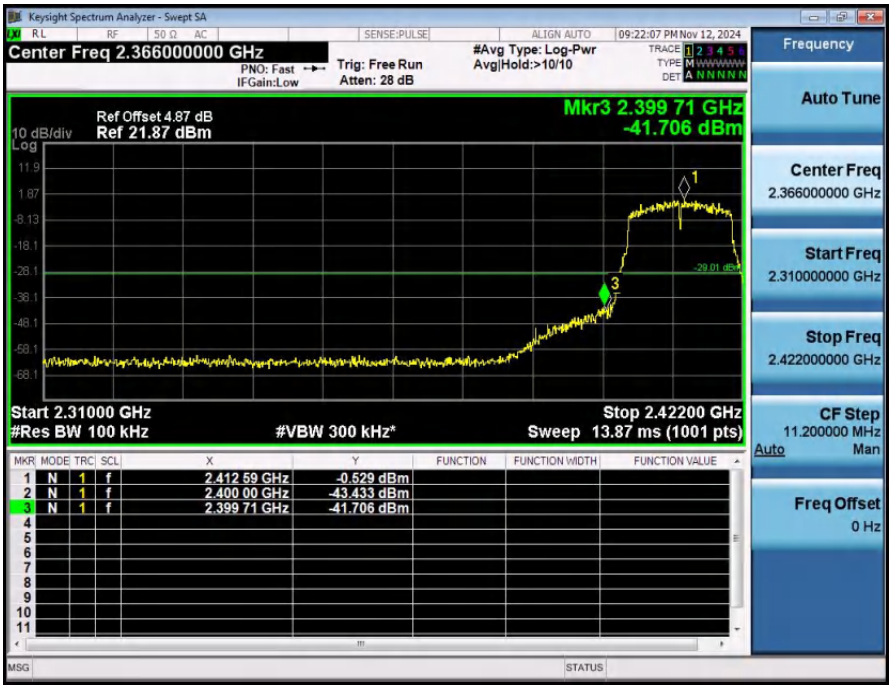
1_Reference_Level_NVNT_ANT1_802_11b_2412

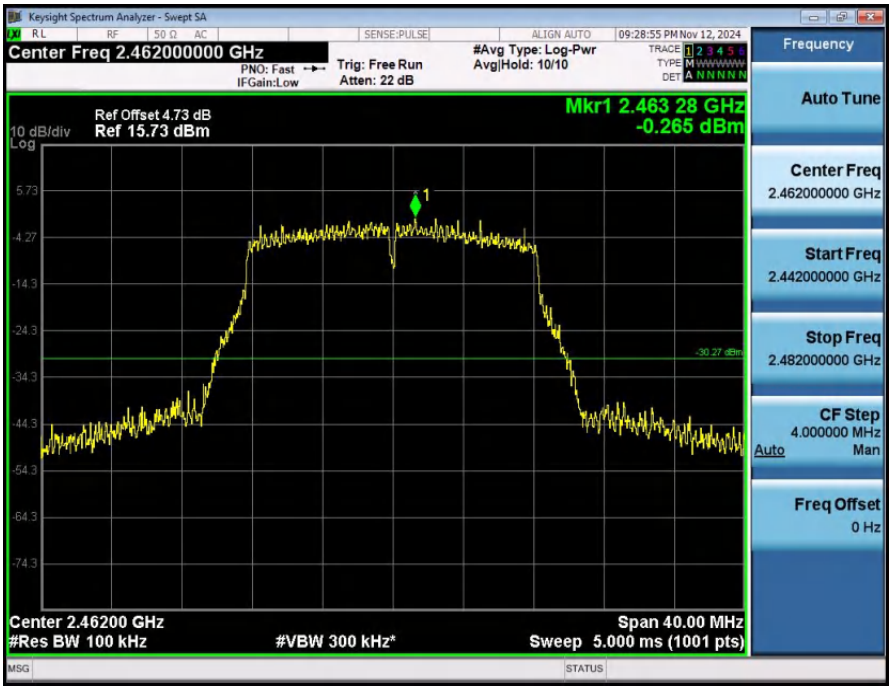

2_Bandedge_NVNT_ANT1_802_11b_2412


1_Reference_Level_NVNT_ANT1_802_11b_2462


2_Bandedge_NVNT_ANT1_802_11b_2462

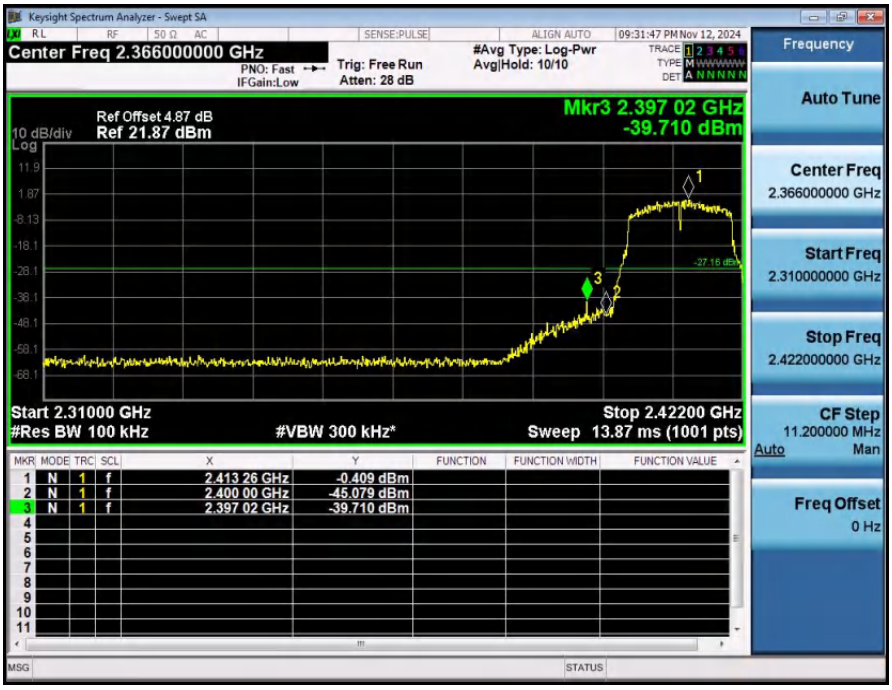

1_Reference_Level_NVNT_ANT1_802_11g_2412


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


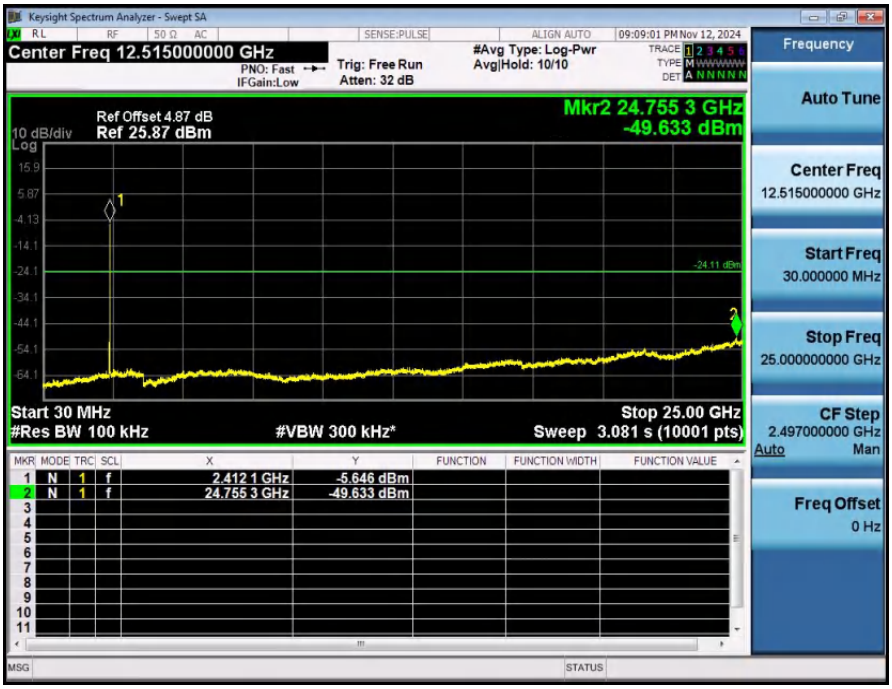
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462


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	24755.294	-49.633	-24.109	Pass
NVNT	ANT1	802.11b	2437.00	24775.270	-56.211	-24.320	Pass
NVNT	ANT1	802.11b	2462.00	24935.078	-52.680	-26.445	Pass
NVNT	ANT1	802.11g	2412.00	25000.000	-53.698	-29.014	Pass
NVNT	ANT1	802.11g	2437.00	24985.018	-57.545	-26.440	Pass
NVNT	ANT1	802.11g	2462.00	24940.072	-60.254	-30.265	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24992.509	-53.898	-27.162	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24697.863	-57.294	-27.243	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24715.342	-59.664	-29.008	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412


2_Spurious_Emission_NVNT_ANT1_802_11b_2412


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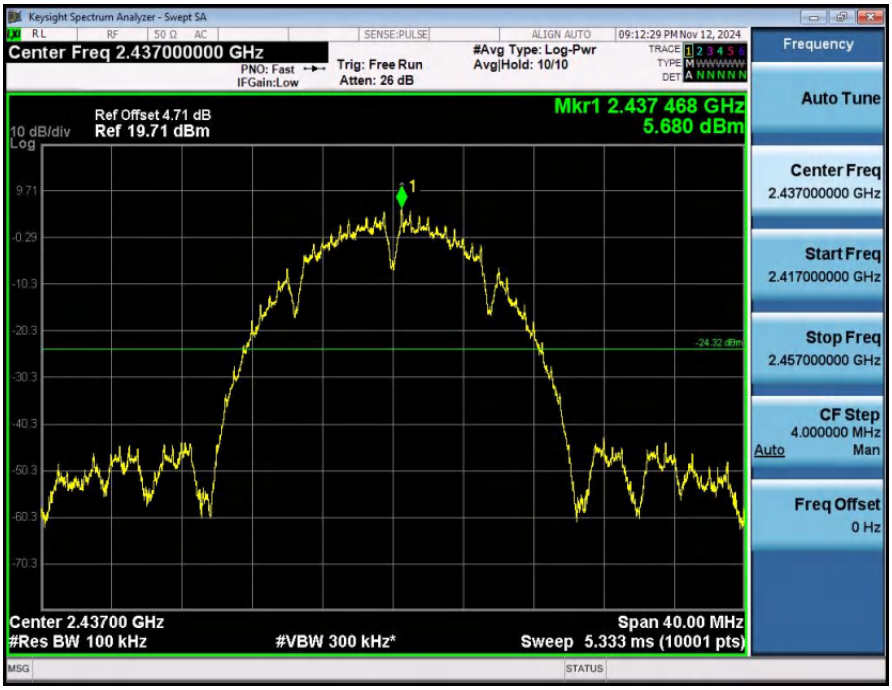

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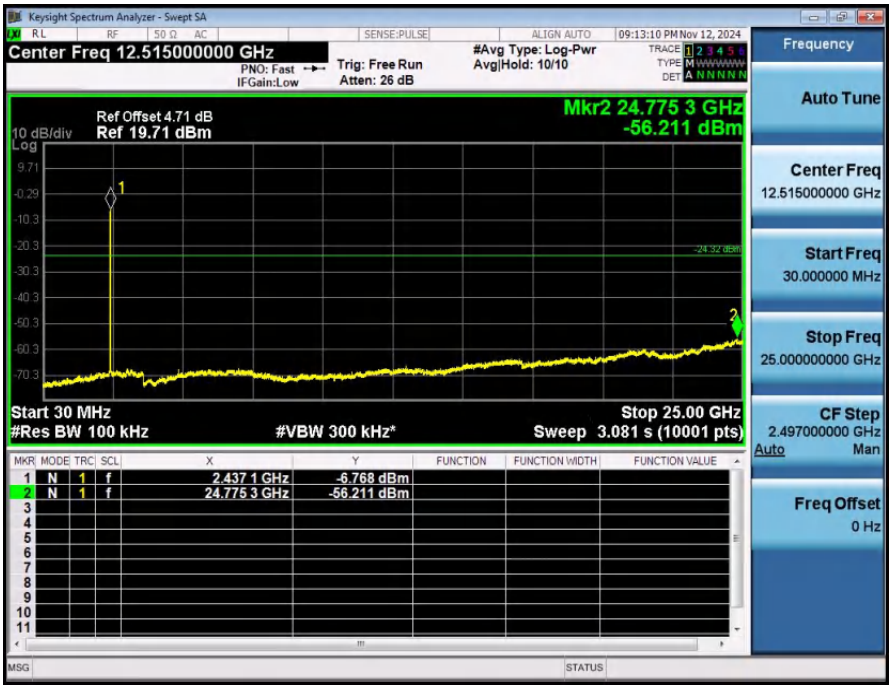
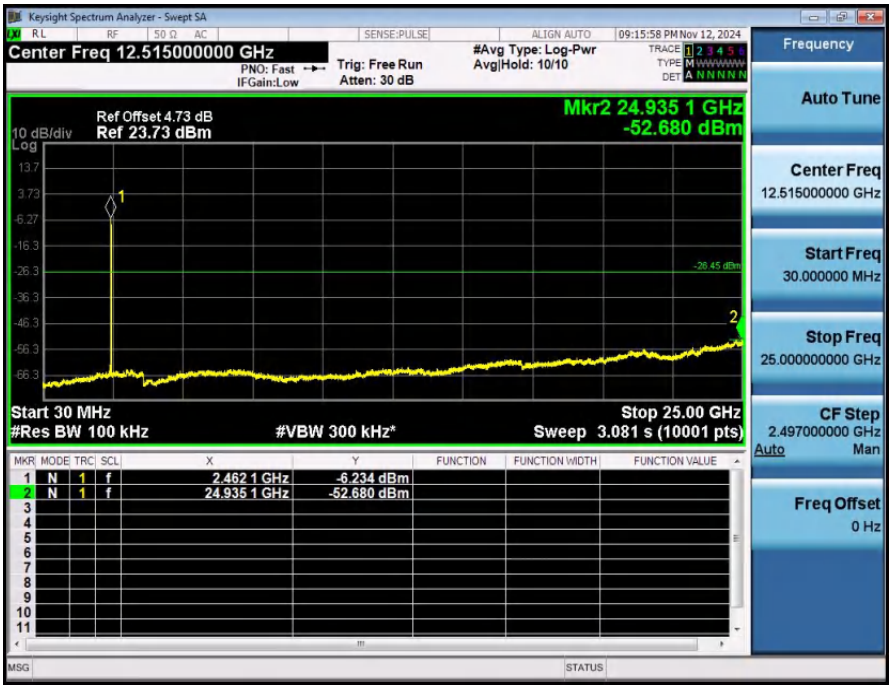
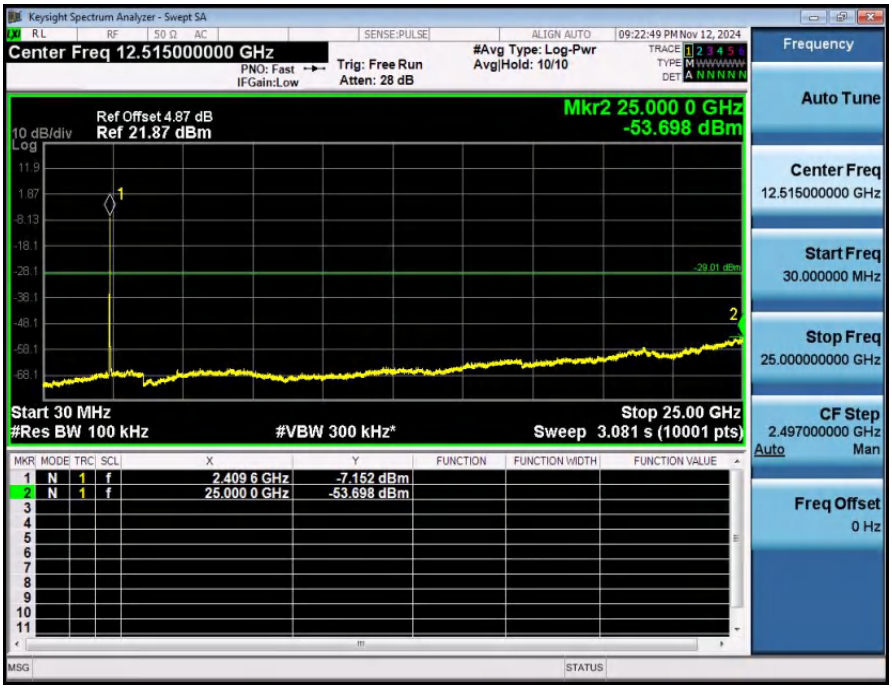


1_Reference_Level_NVNT_ANT1_802_11b_2462


2_Spurious_Emission_NVNT_ANT1_802_11b_2462


1_Reference_Level_NVNT_ANT1_802_11g_2412


2_Spurious_Emission_NVNT_ANT1_802_11g_2412


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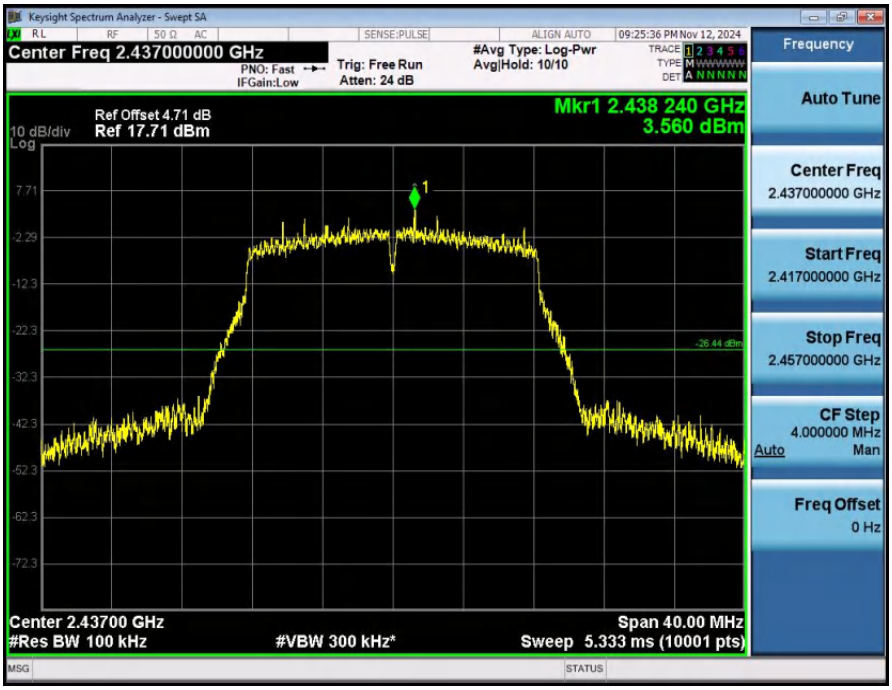

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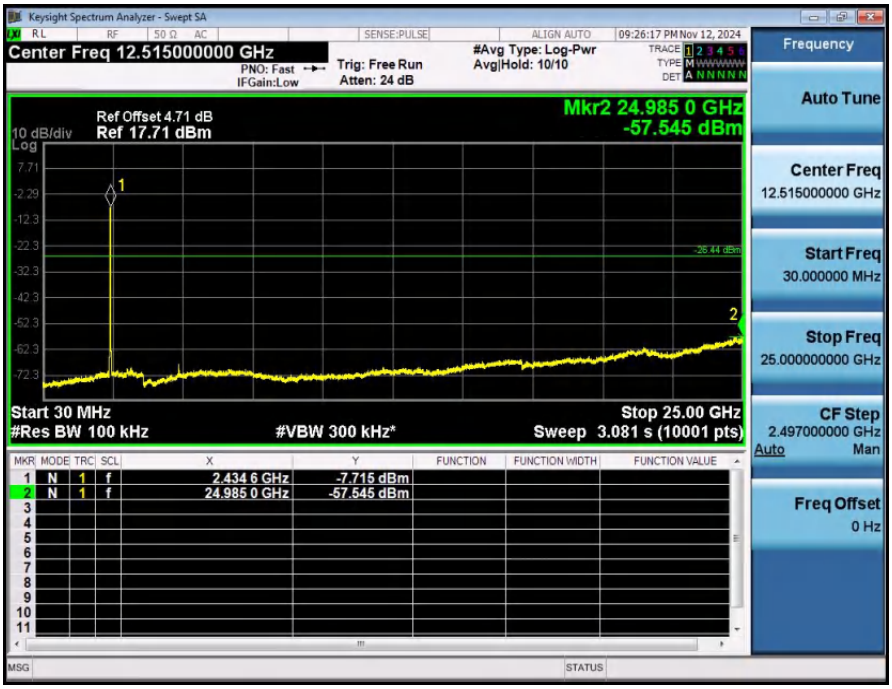

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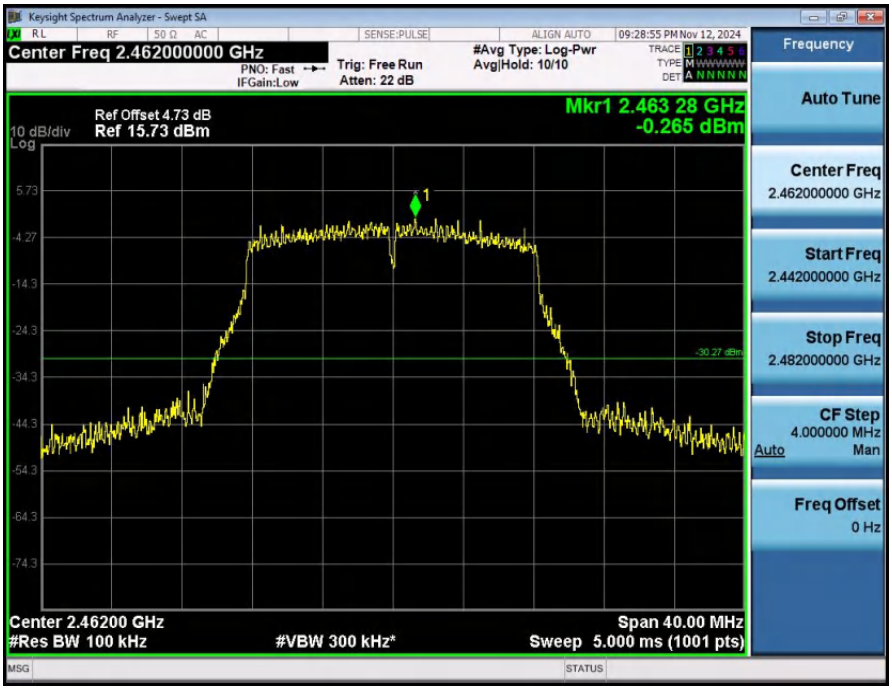

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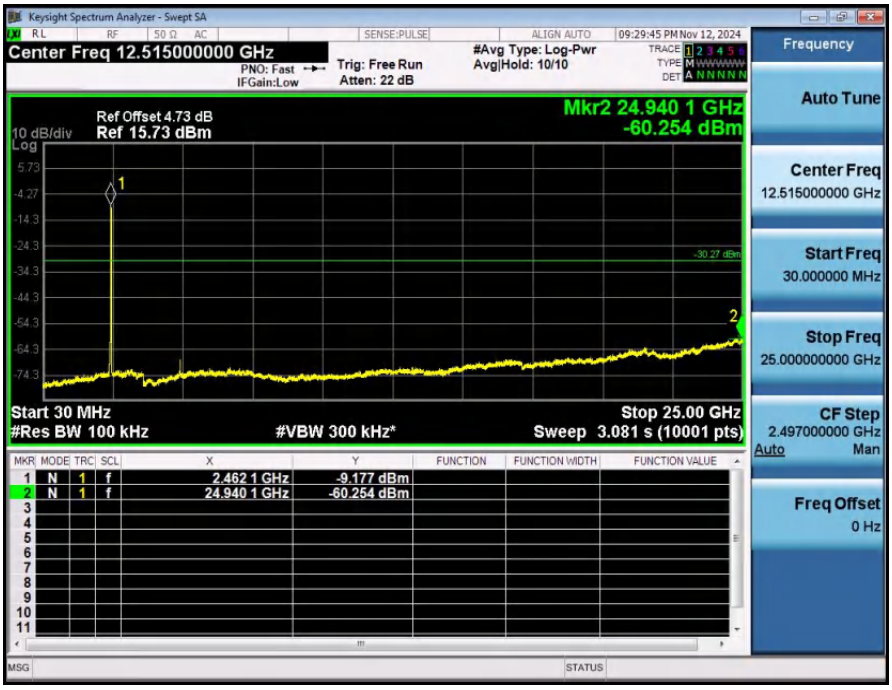
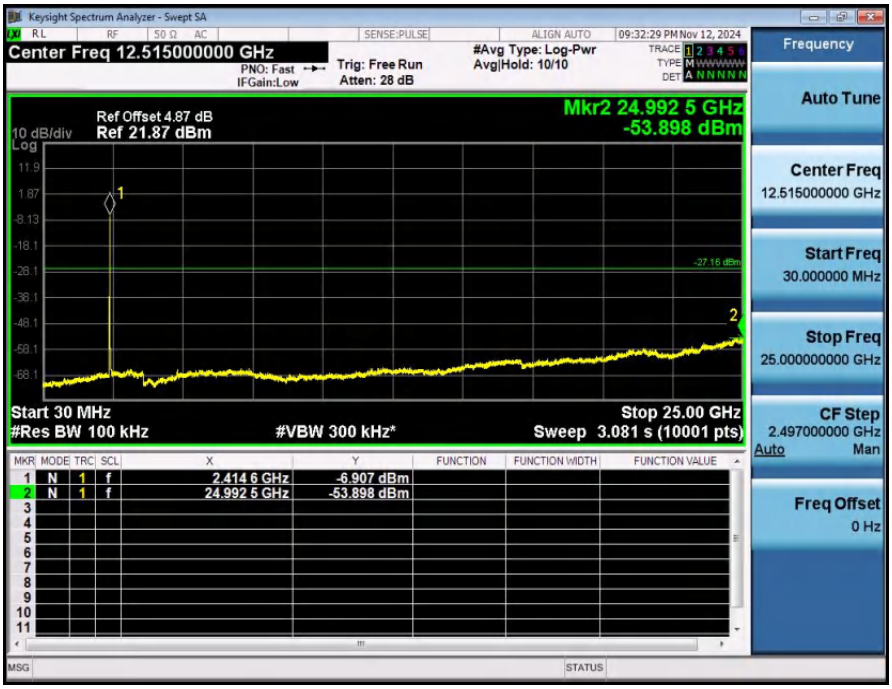
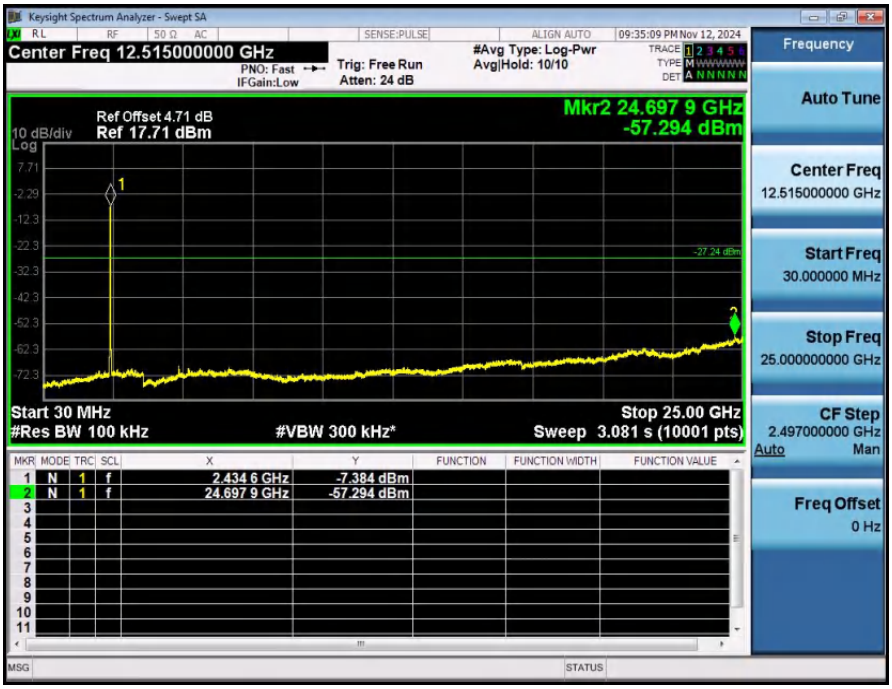


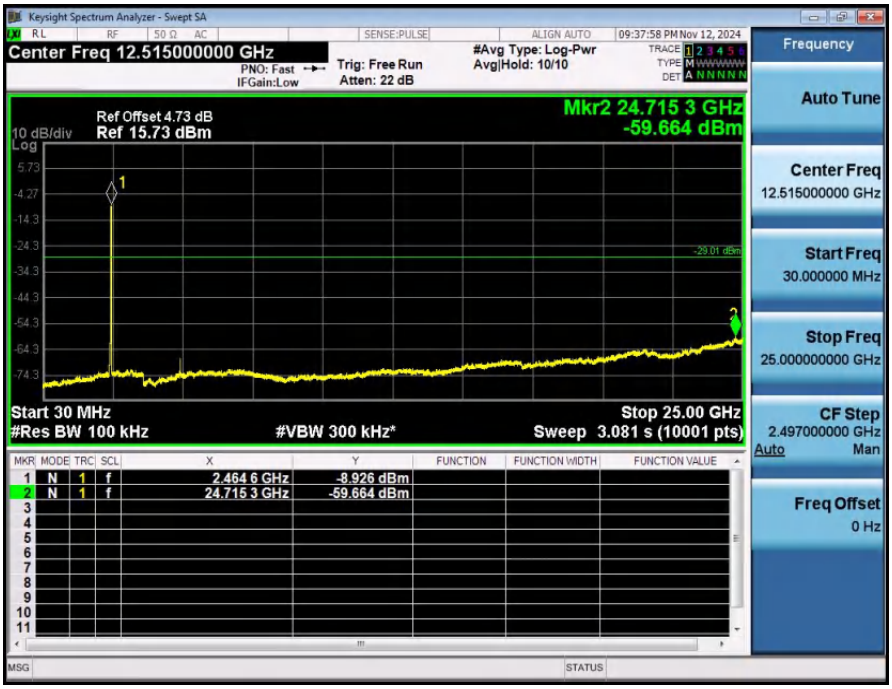
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412


2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437


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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