

Appendix

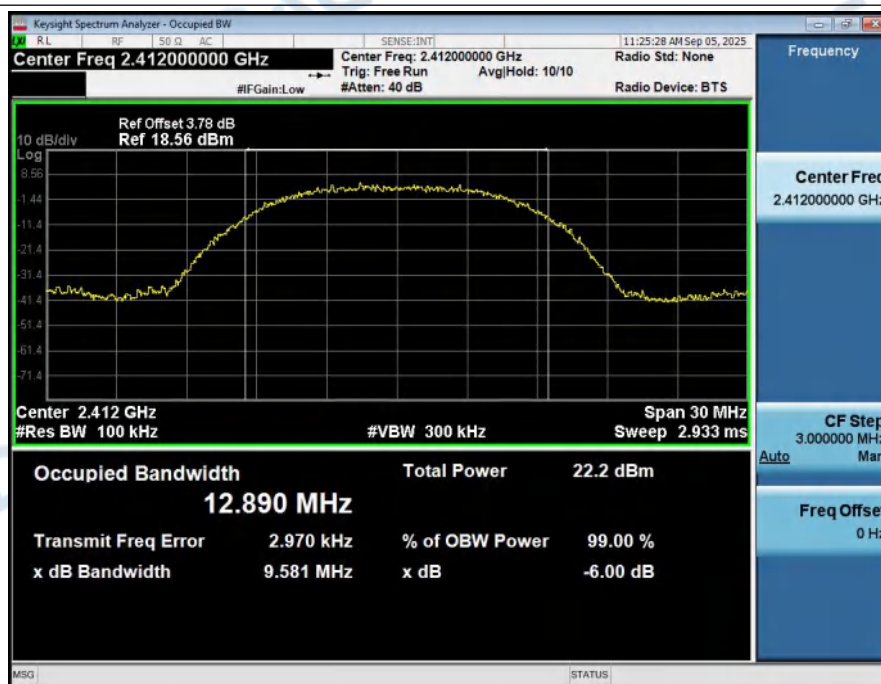
HT250806003--WD300--2.4G--FCC

FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.58	500	Pass
NVNT	ANT1	802.11b	2437.00	9.66	500	Pass
NVNT	ANT1	802.11b	2462.00	10.04	500	Pass
NVNT	ANT1	802.11g	2412.00	16.39	500	Pass
NVNT	ANT1	802.11g	2437.00	16.40	500	Pass
NVNT	ANT1	802.11g	2462.00	16.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.19	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.21	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.17	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.00	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.00	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.98	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



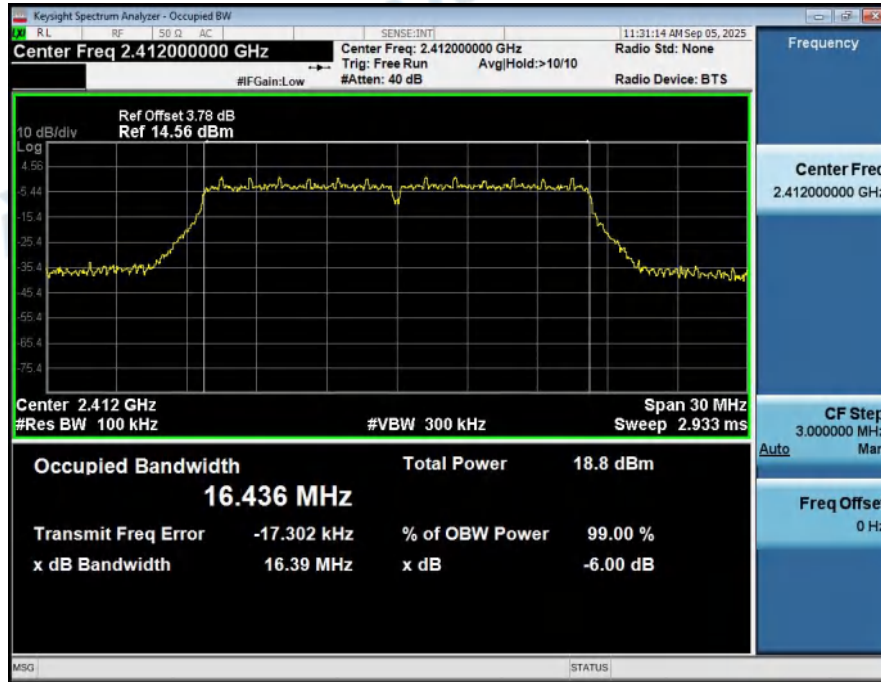
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



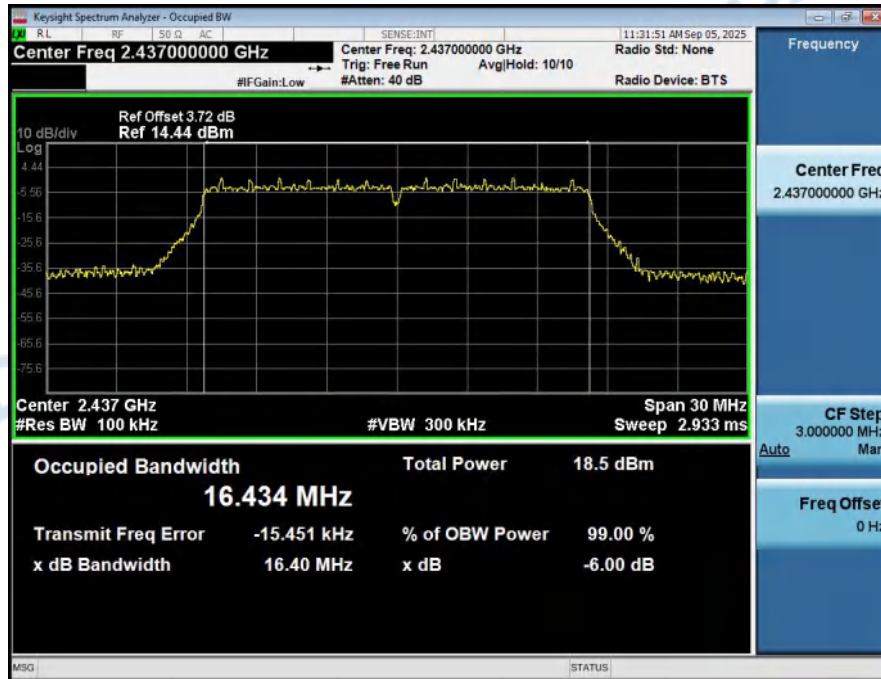
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



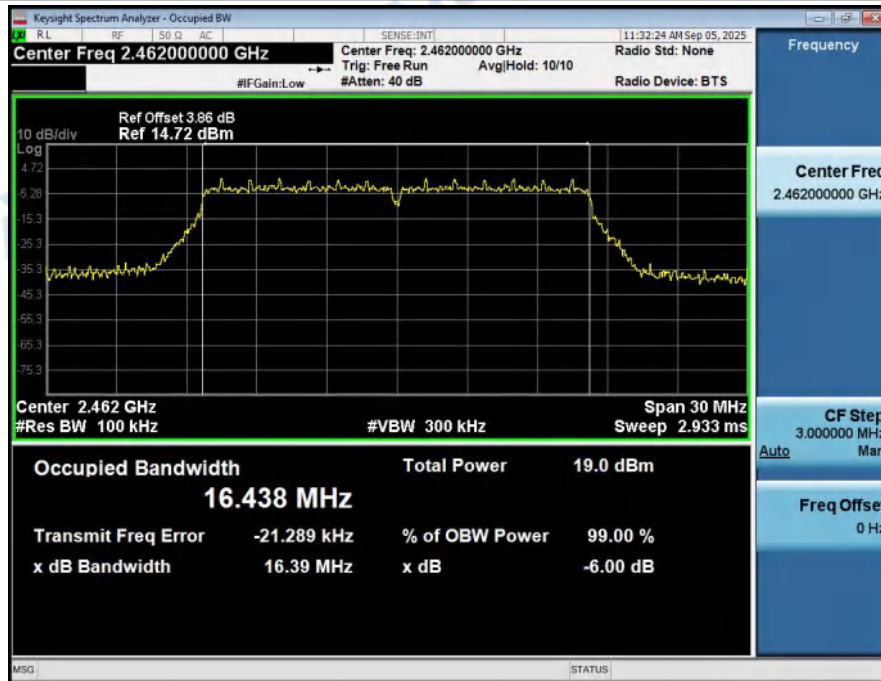
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



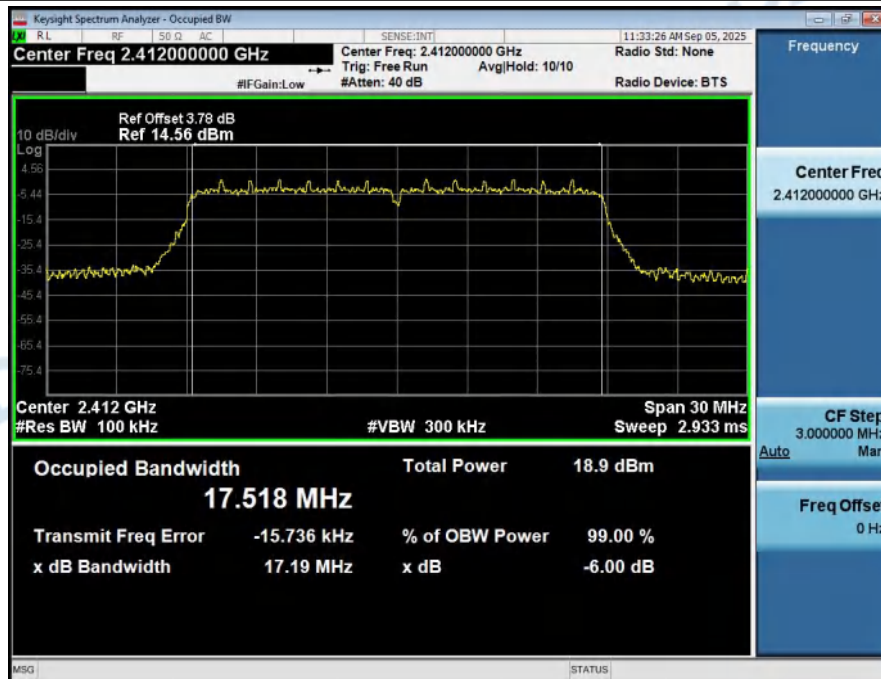
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



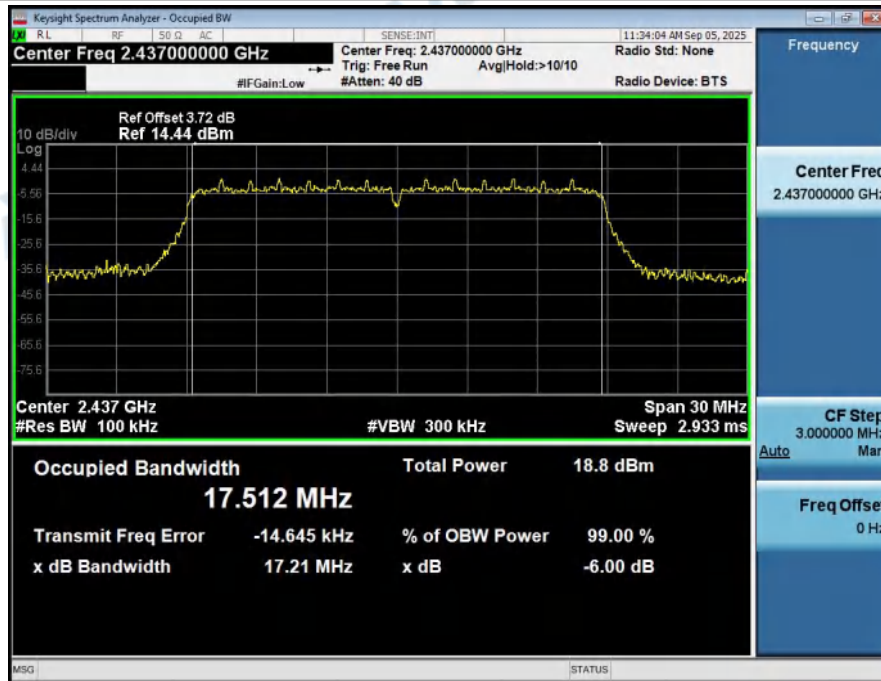
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



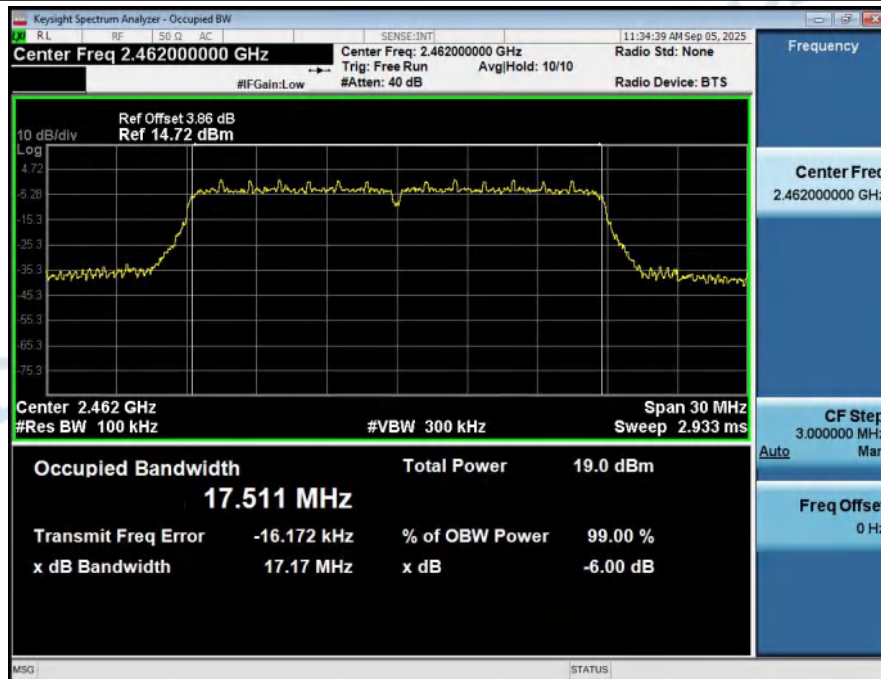
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



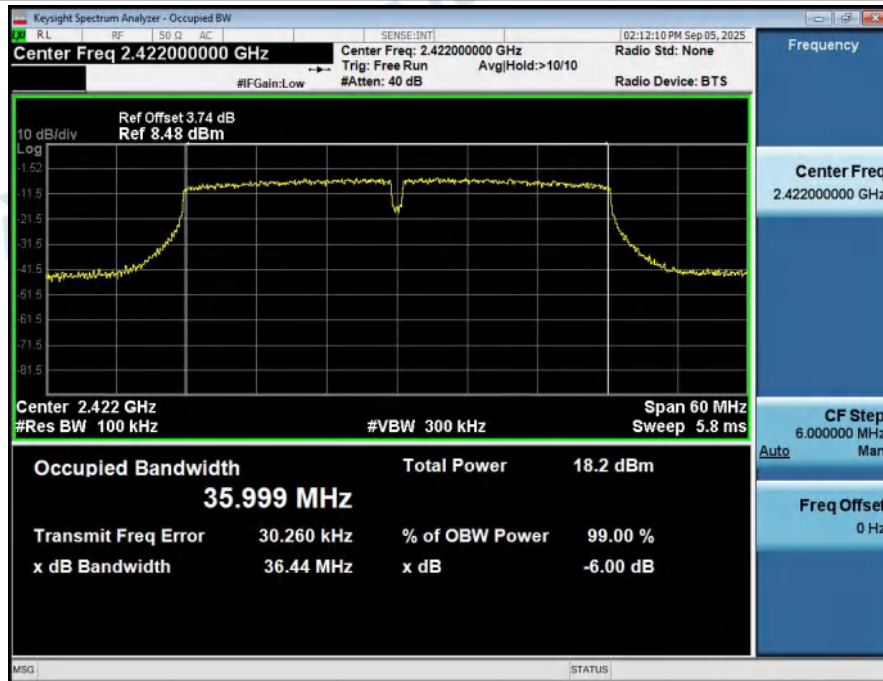
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



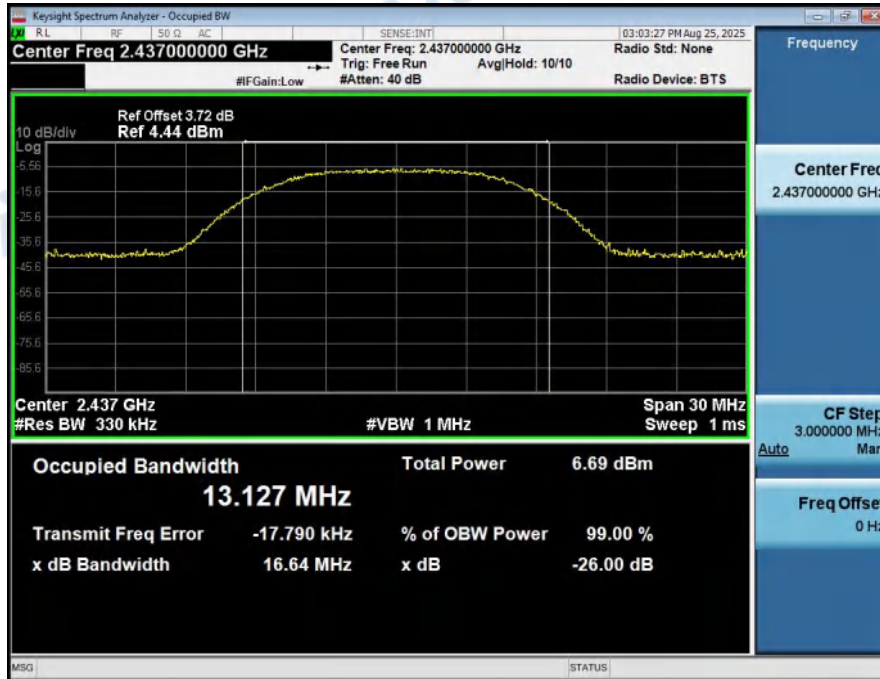
2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.076
NVNT	ANT1	802.11b	2437.00	13.127
NVNT	ANT1	802.11b	2462.00	13.092
NVNT	ANT1	802.11g	2412.00	17.045
NVNT	ANT1	802.11g	2437.00	17.072
NVNT	ANT1	802.11g	2462.00	17.045
NVNT	ANT1	802.11n(HT20)	2412.00	17.768
NVNT	ANT1	802.11n(HT20)	2437.00	17.826
NVNT	ANT1	802.11n(HT20)	2462.00	17.772
NVNT	ANT1	802.11n(HT40)	2422.00	36.326
NVNT	ANT1	802.11n(HT40)	2437.00	36.339
NVNT	ANT1	802.11n(HT40)	2452.00	36.322

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



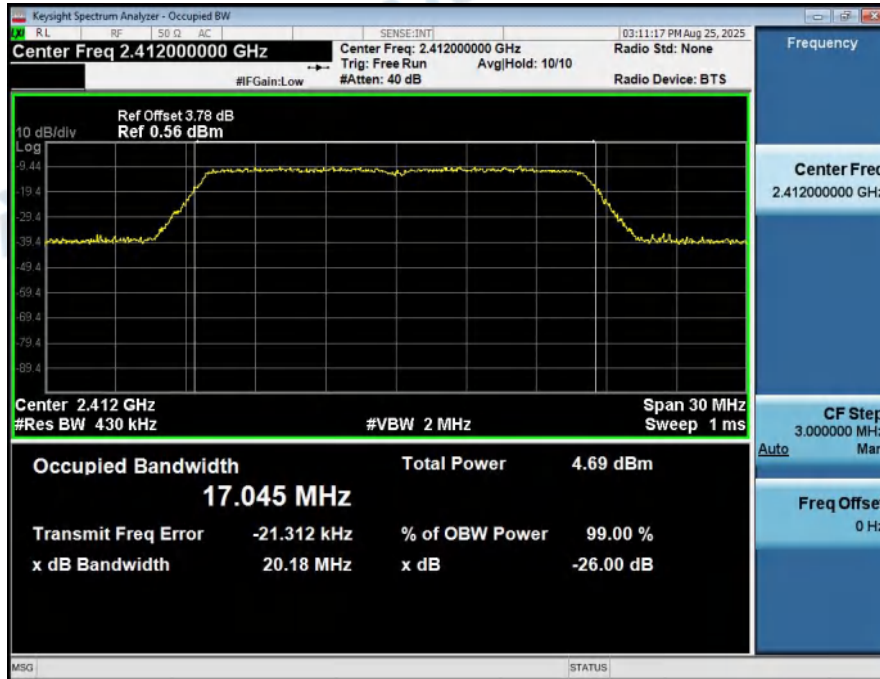
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



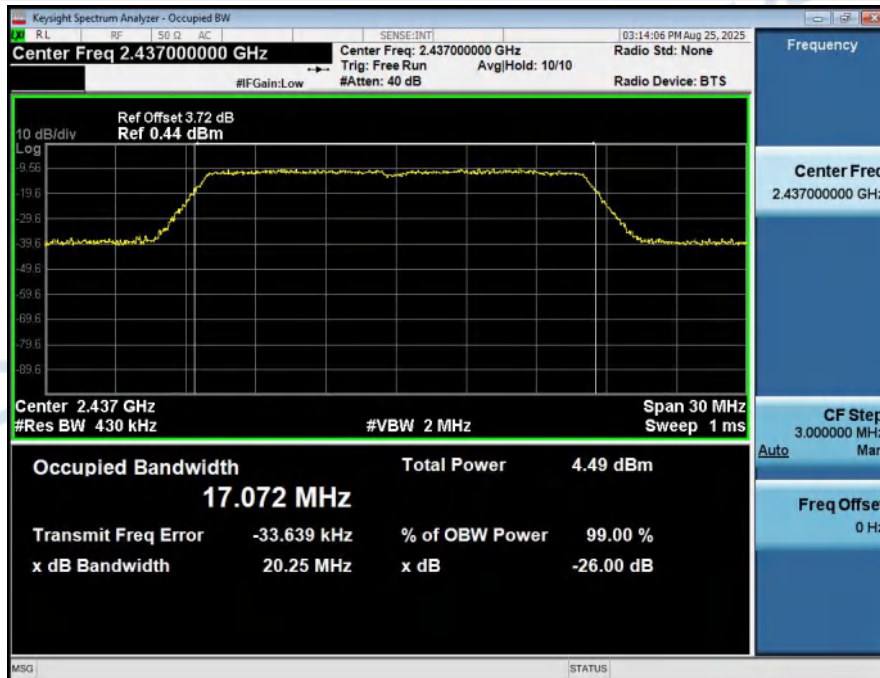
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



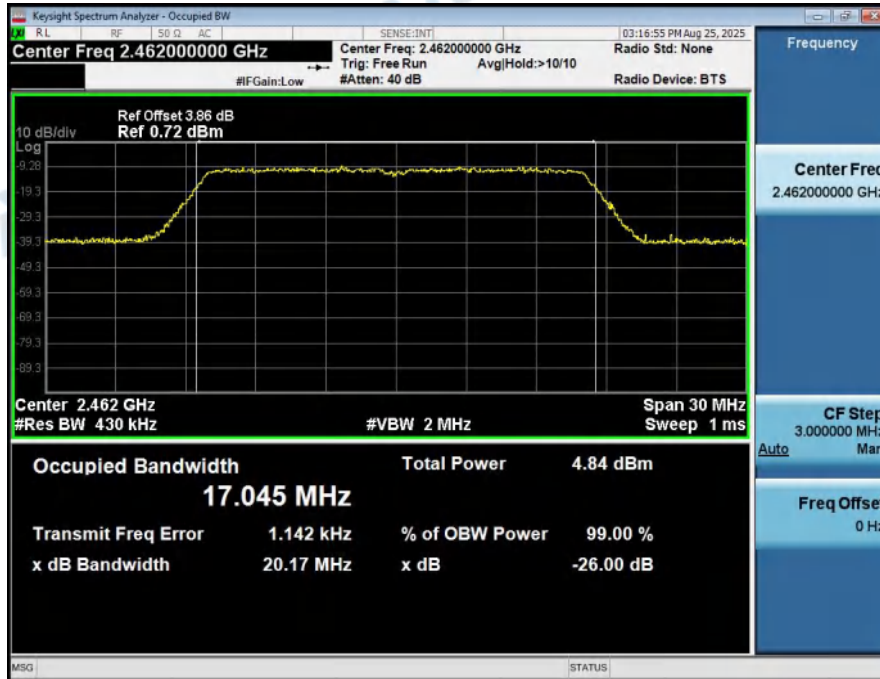
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



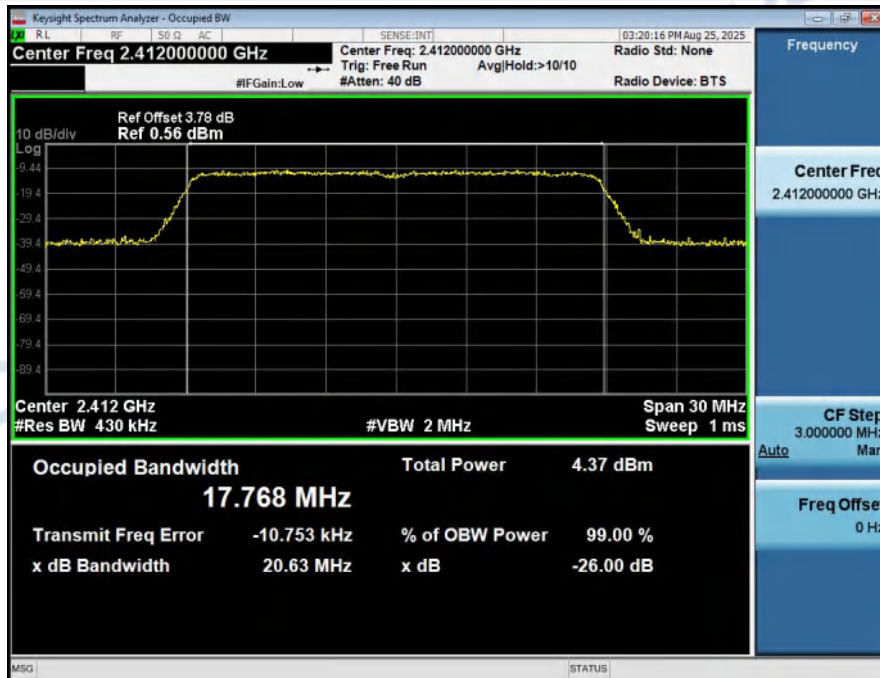
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



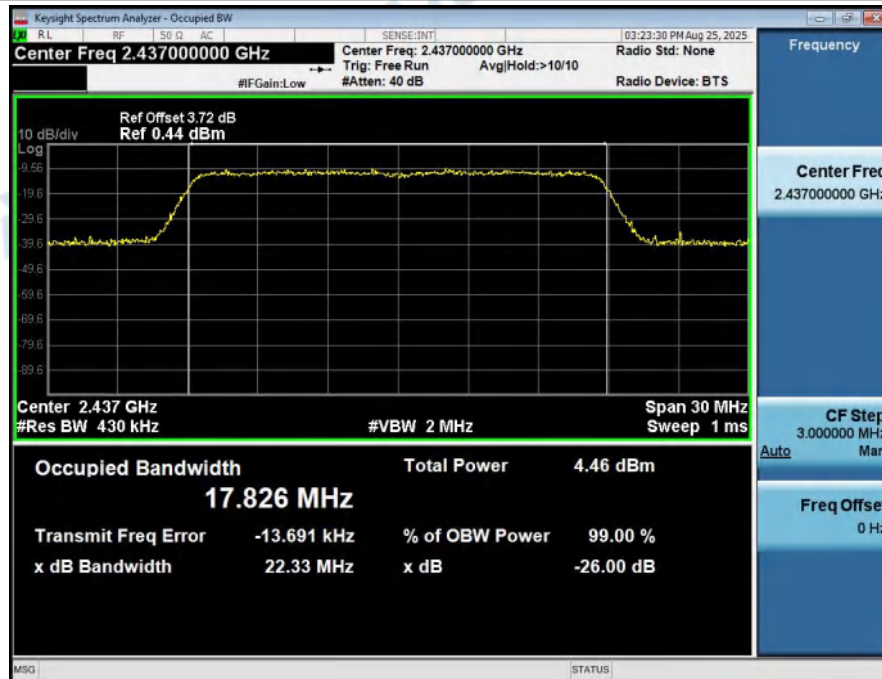
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



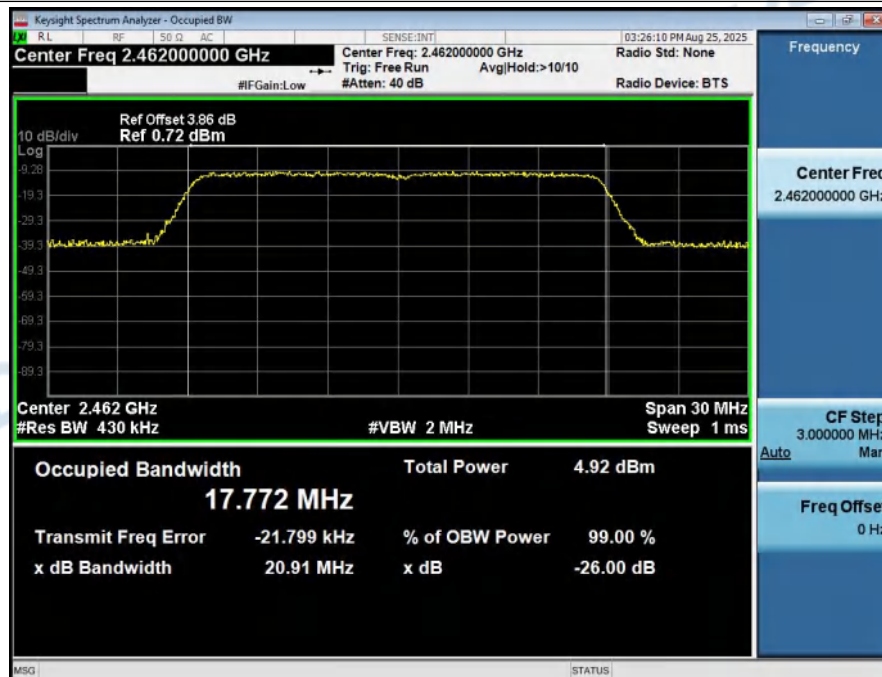
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



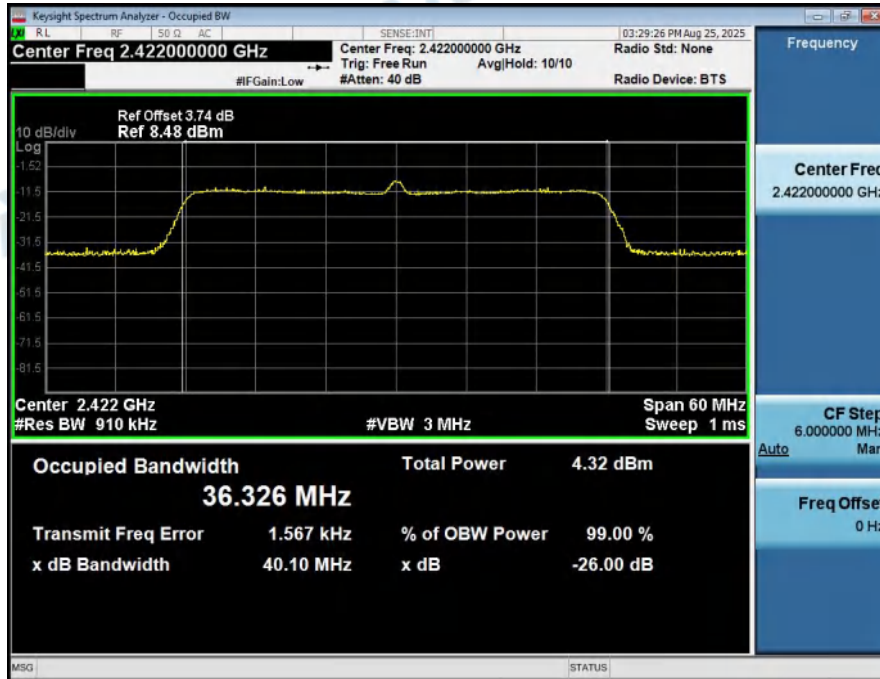
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



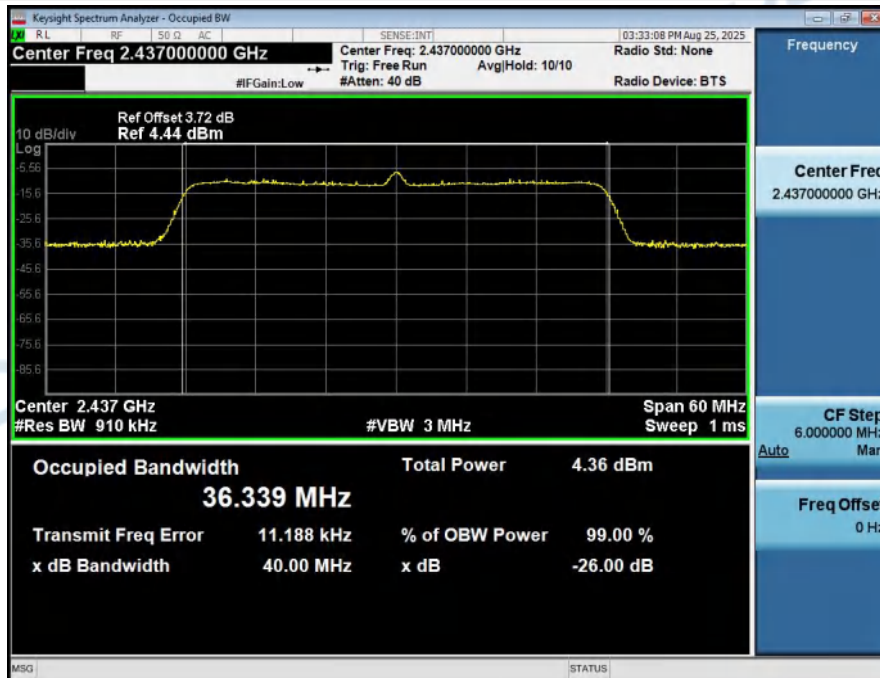
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



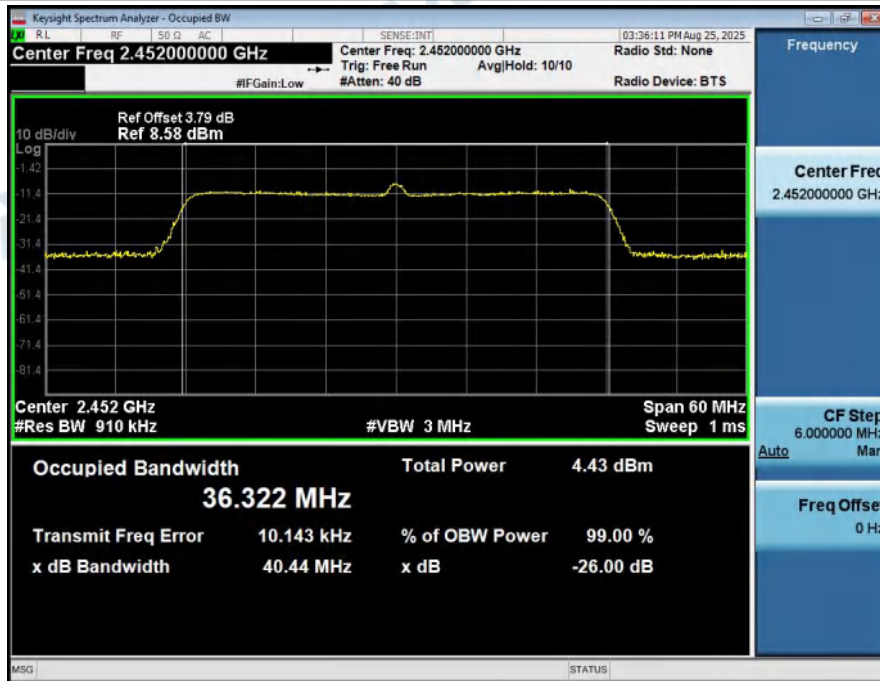
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



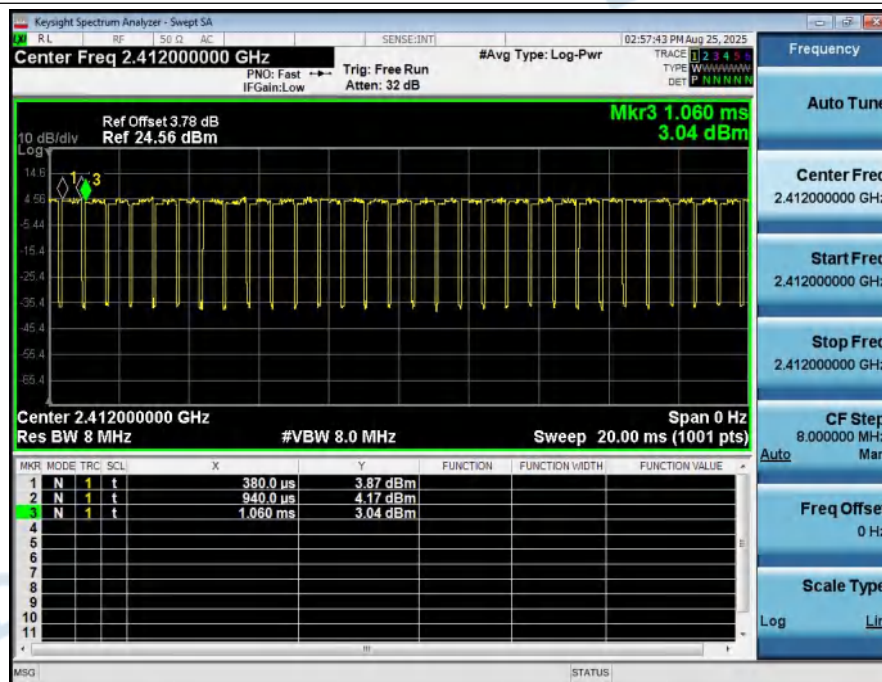
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



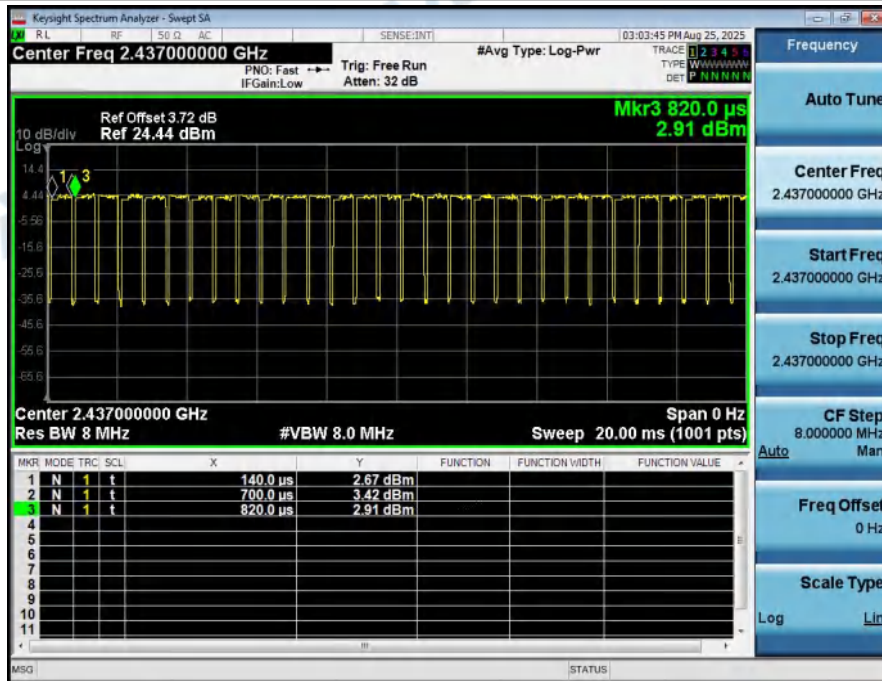
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	85.29	0.69
NVNT	ANT1	802.11b	2437.00	85.29	0.69
NVNT	ANT1	802.11b	2462.00	87.88	0.56
NVNT	ANT1	802.11g	2412.00	97.30	0.12
NVNT	ANT1	802.11g	2437.00	98.59	0.00
NVNT	ANT1	802.11g	2462.00	98.57	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	97.14	0.13
NVNT	ANT1	802.11n(HT20)	2437.00	97.22	0.12
NVNT	ANT1	802.11n(HT20)	2462.00	97.62	0.10
NVNT	ANT1	802.11n(HT40)	2422.00	94.74	0.23
NVNT	ANT1	802.11n(HT40)	2437.00	94.74	0.23
NVNT	ANT1	802.11n(HT40)	2452.00	94.74	0.23

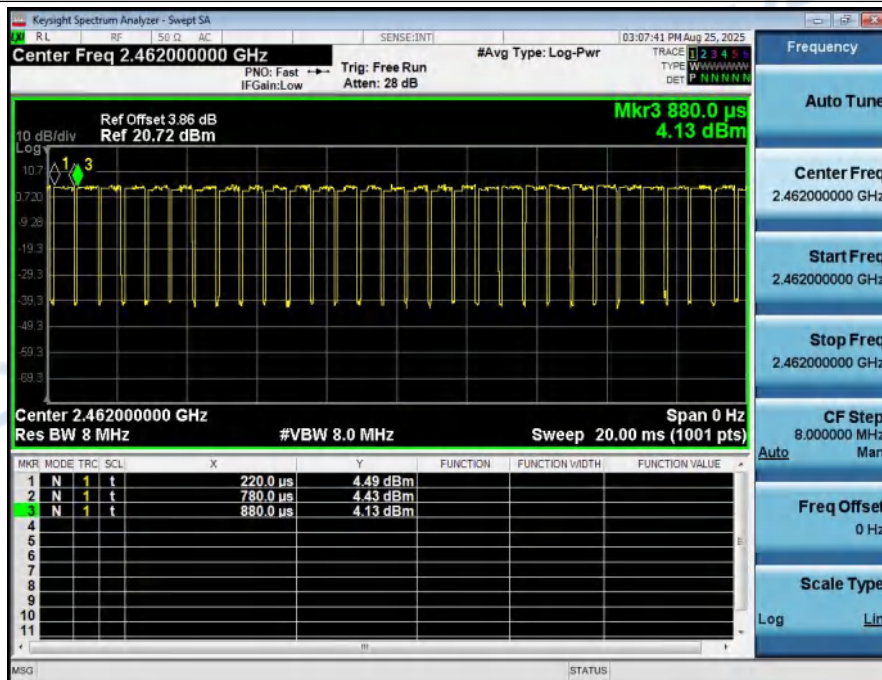
Duty_Cycle_NVNT_ANT1_802_11b_2412



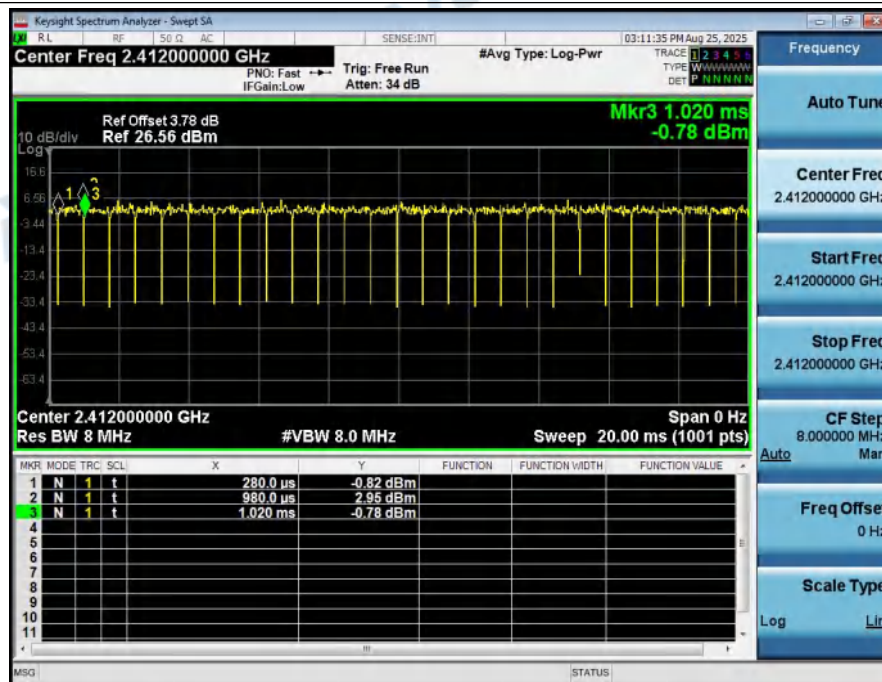
Duty_Cycle_NVNT_ANT1_802_11b_2437



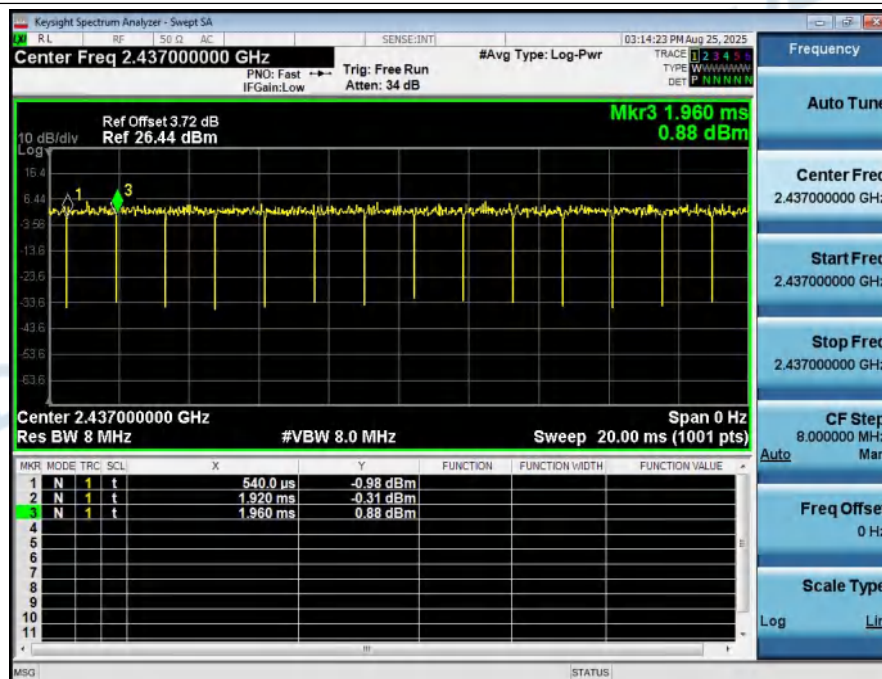
Duty_Cycle_NVNT_ANT1_802_11b_2462



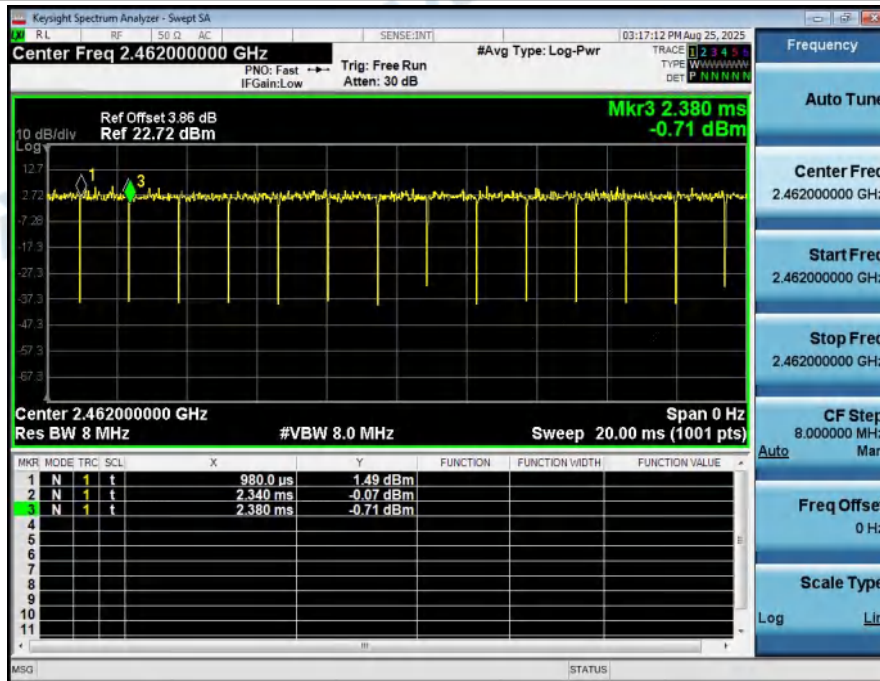
Duty_Cycle_NVNT_ANT1_802_11g_2412



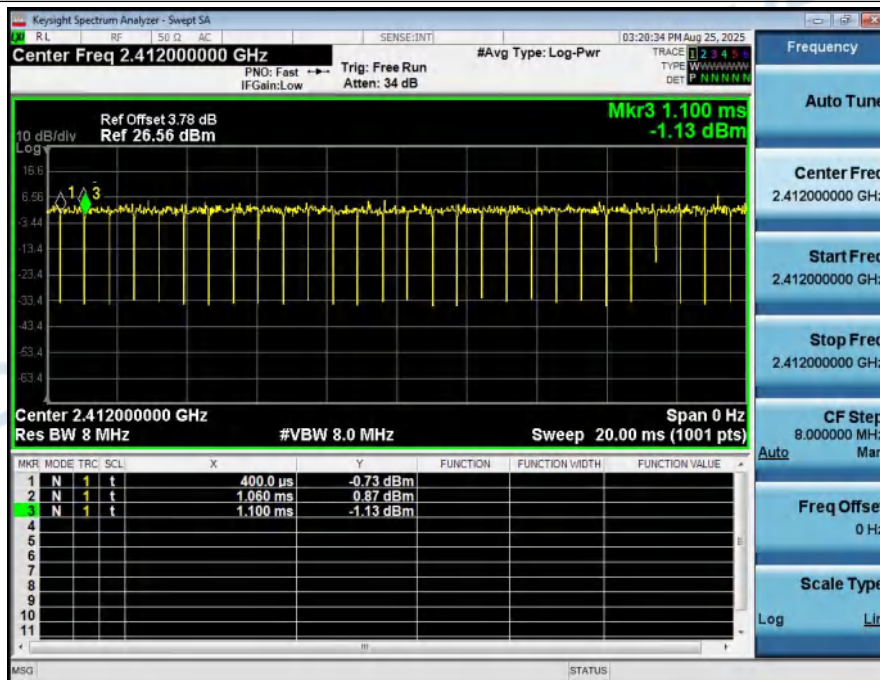
Duty_Cycle_NVNT_ANT1_802_11g_2437



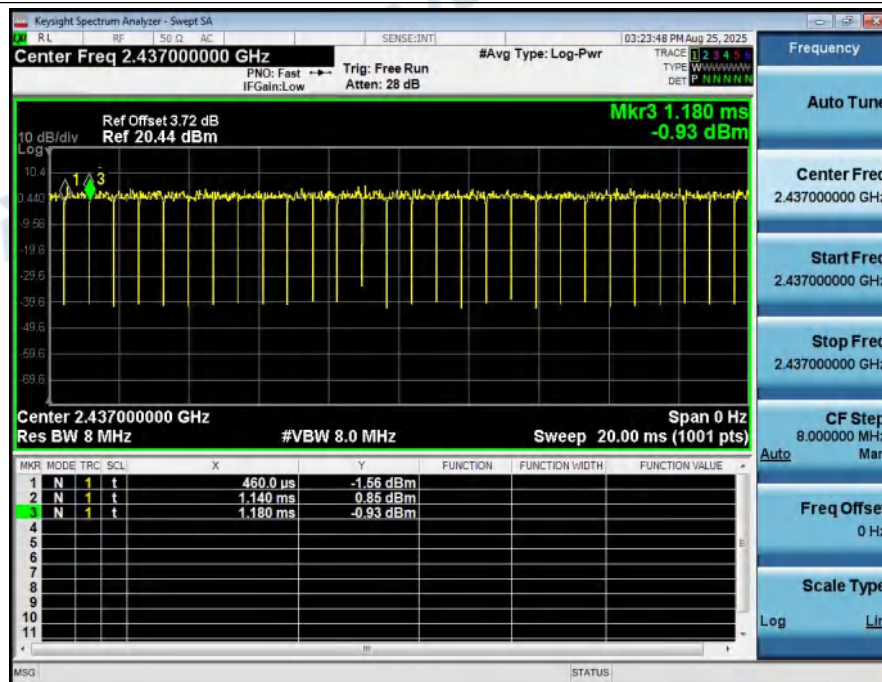
Duty_Cycle_NVNT_ANT1_802_11g_2462



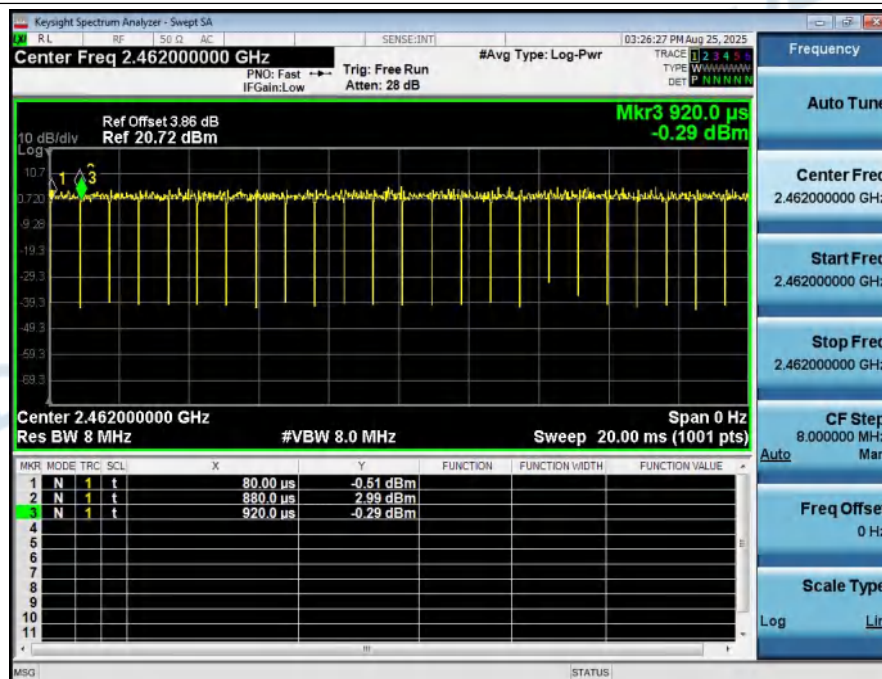
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



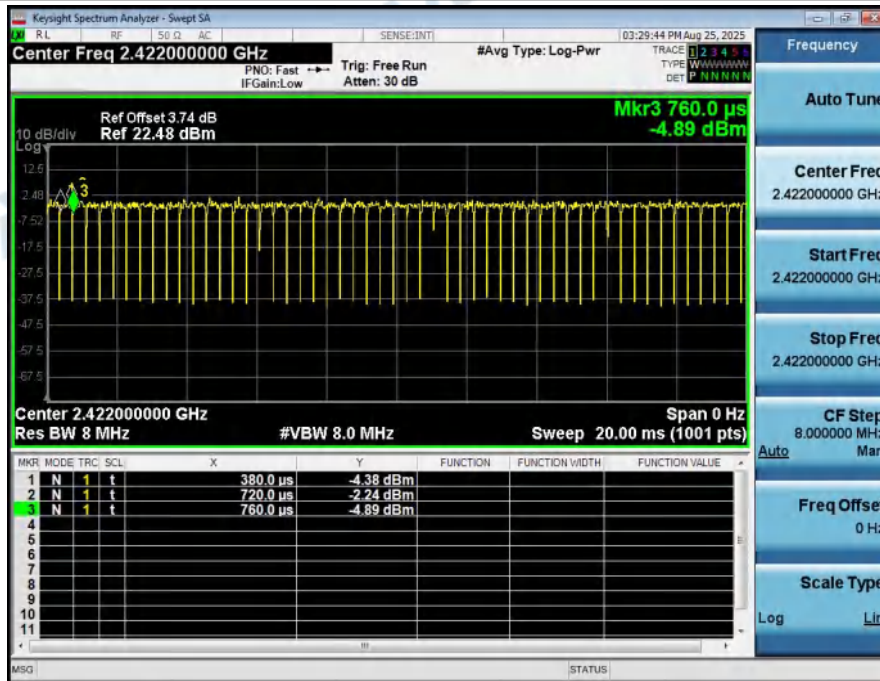
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



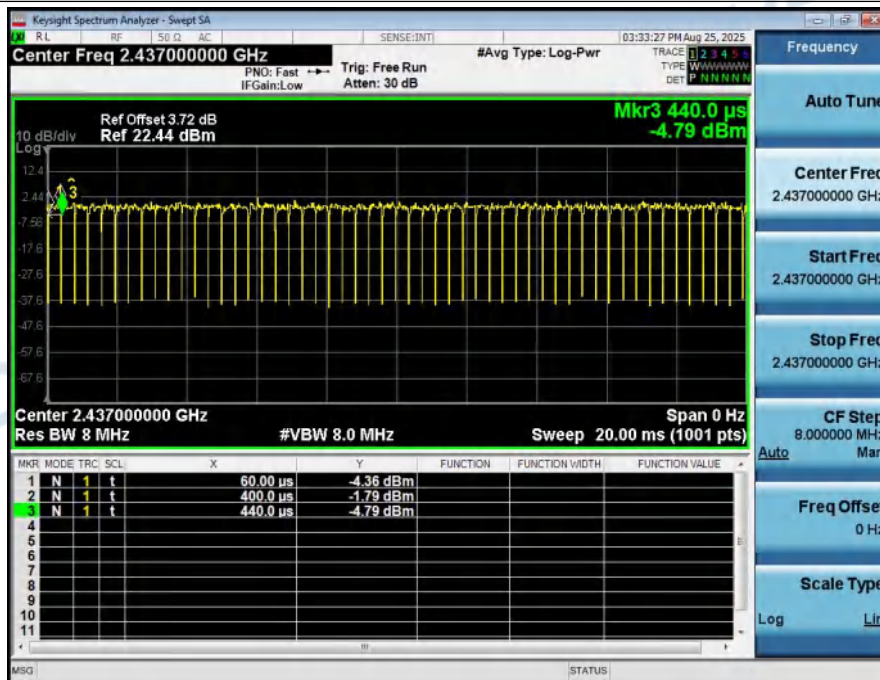
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



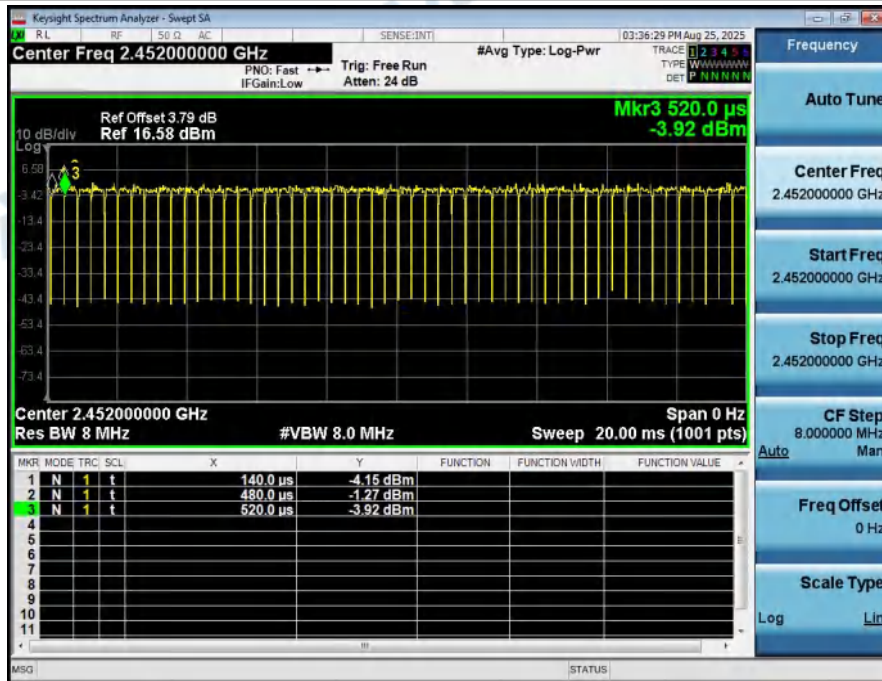
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



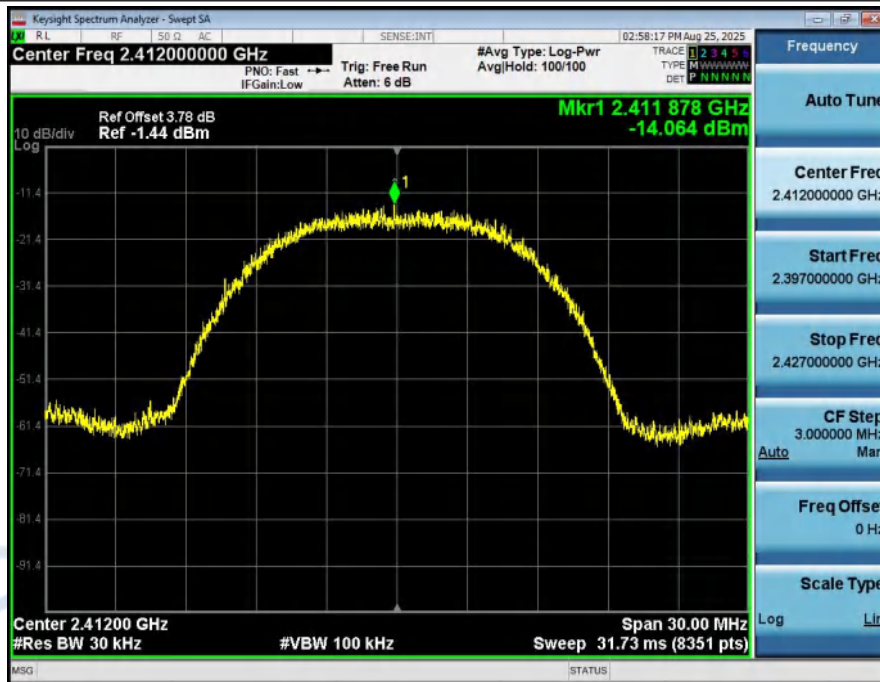
4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	9.11	N/A	6.11	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	9.06	N/A	6.06	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	9.52	N/A	6.52	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	7.11	N/A	4.11	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	7.02	N/A	4.02	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	7.44	N/A	4.44	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	5.98	N/A	3.98	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	5.94	N/A	3.94	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	5.42	N/A	4.42	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	5.23	N/A	3.23	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	5.26	N/A	3.26	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	5.28	N/A	3.28	30	Pass

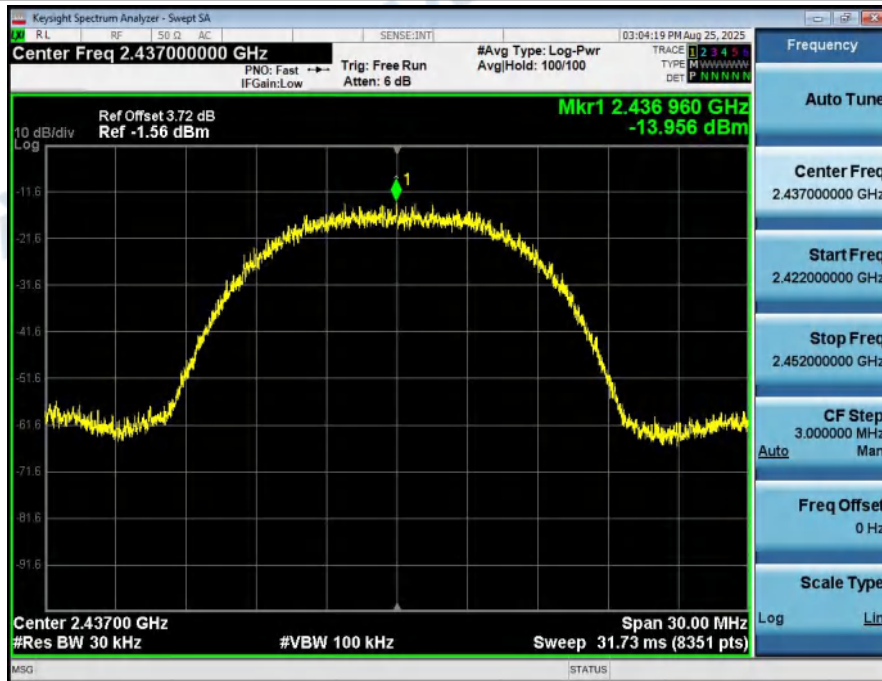
5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-14.06	8	Pass
NVNT	ANT1	802.11b	2437.00	-13.96	8	Pass
NVNT	ANT1	802.11b	2462.00	-13.46	8	Pass
NVNT	ANT1	802.11g	2412.00	-18.05	8	Pass
NVNT	ANT1	802.11g	2437.00	-18.40	8	Pass
NVNT	ANT1	802.11g	2462.00	-17.77	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-19.10	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-18.86	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-18.42	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-10.69	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-10.60	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-10.52	8	Pass

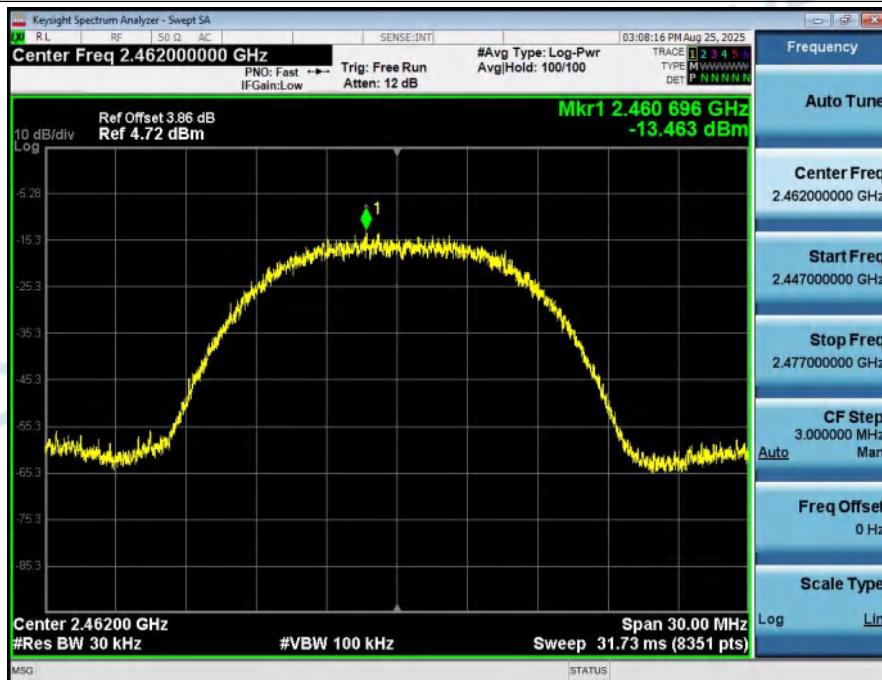
Power_Spectral_Density_NVNT_ANT1_802_11b_2412



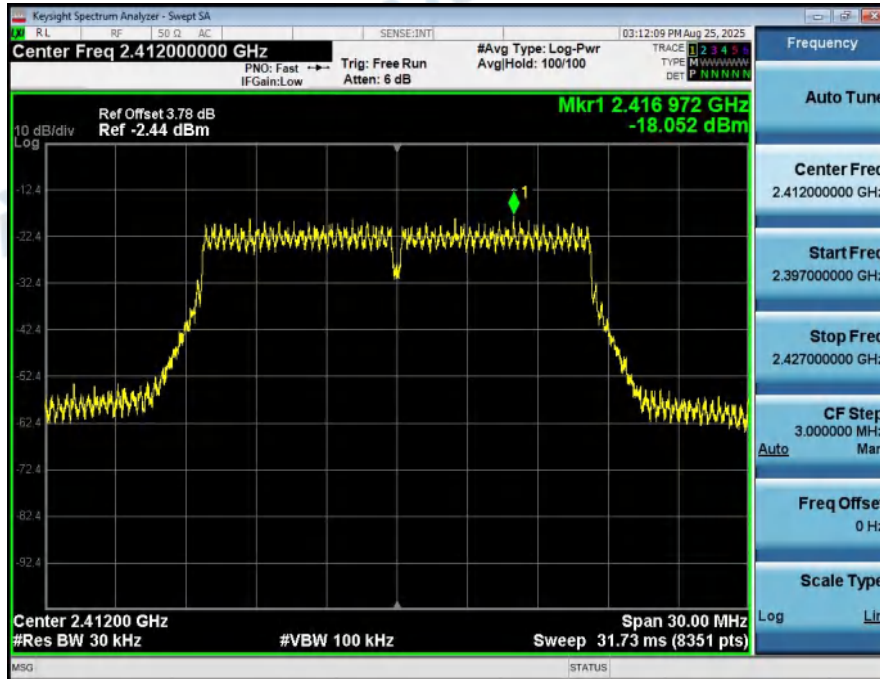
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



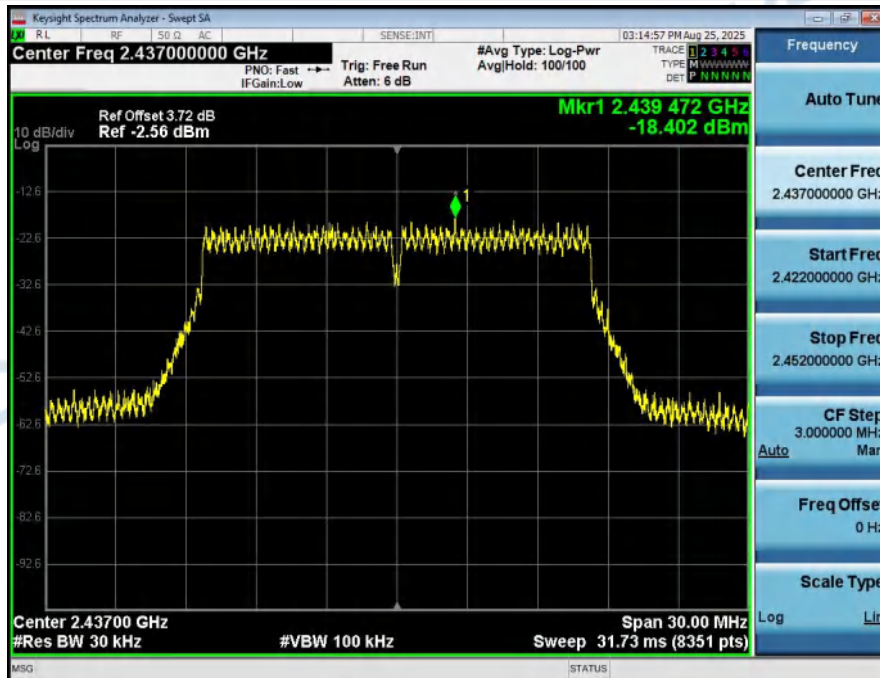
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



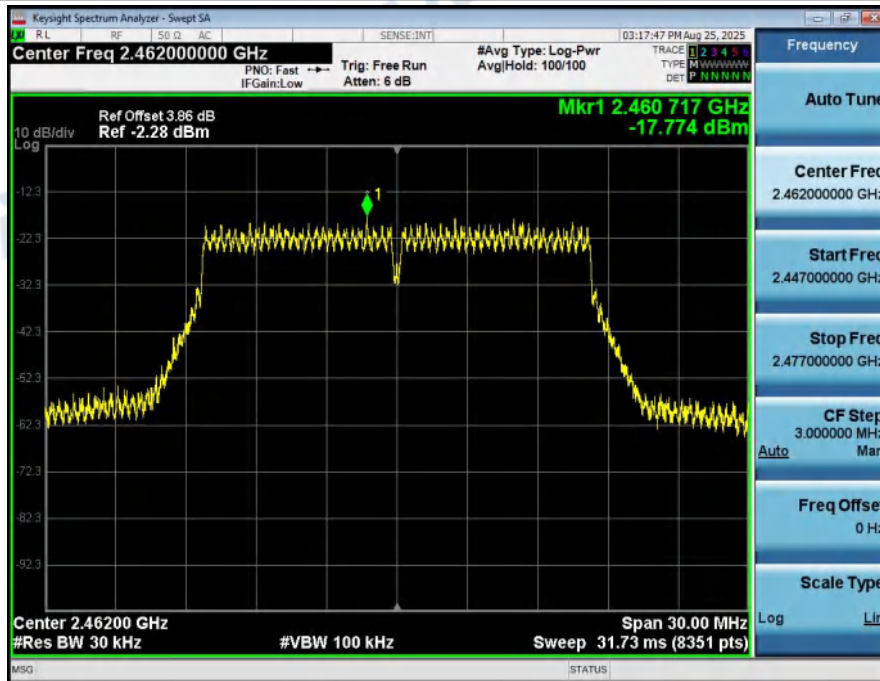
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



Power_Spectral_Density_NVNT_ANT1_802_11g_2437



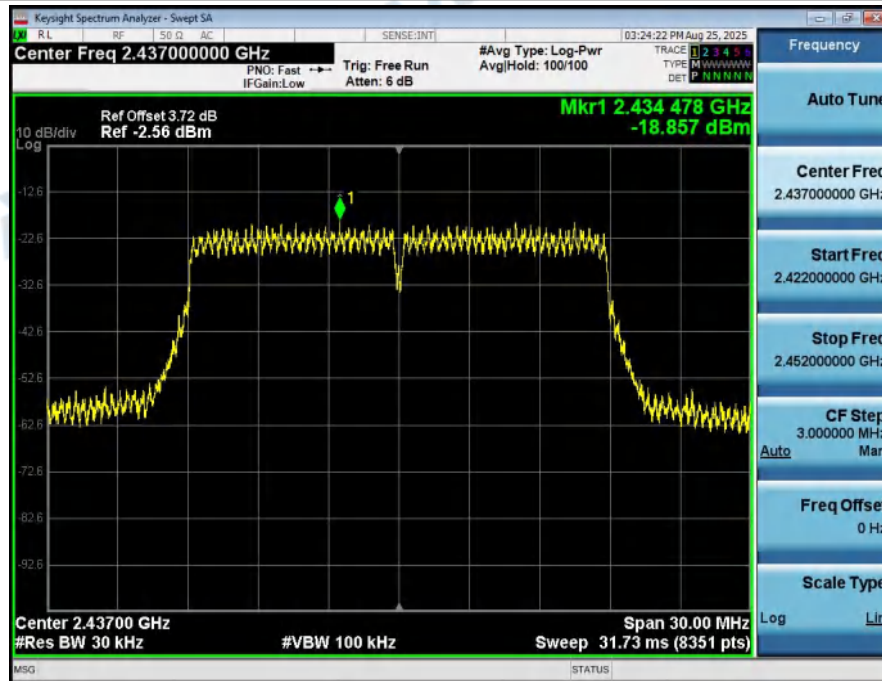
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



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



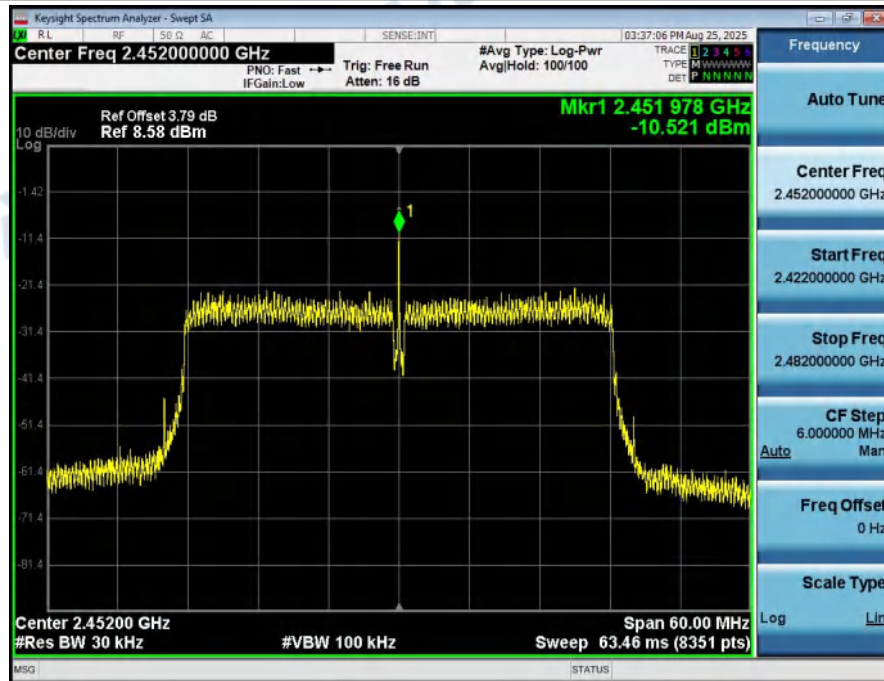
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



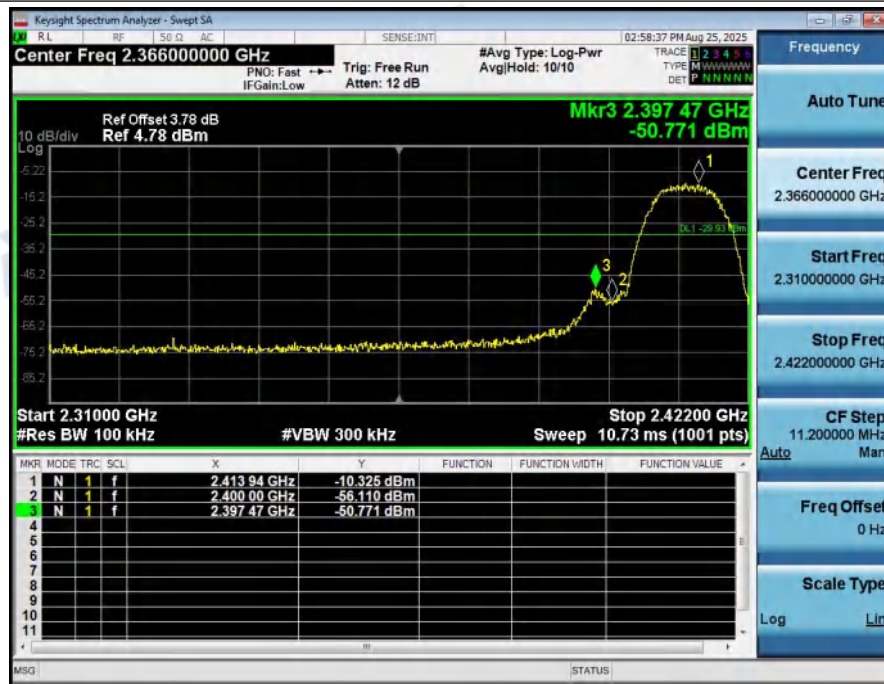
6. Bandedge

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	2397.472	-9.931	-50.771	-29.931	Pass
NVNT	ANT1	802.11b	2462.00	2486.464	-9.633	-66.482	-29.633	Pass
NVNT	ANT1	802.11g	2412.00	2398.480	-14.095	-50.461	-34.095	Pass
NVNT	ANT1	802.11g	2462.00	2483.824	-13.673	-60.800	-33.673	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2397.024	-14.135	-49.813	-34.135	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2485.120	-13.741	-57.380	-33.741	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2389.464	-10.604	-51.542	-30.604	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2491.976	-10.304	-57.494	-30.304	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



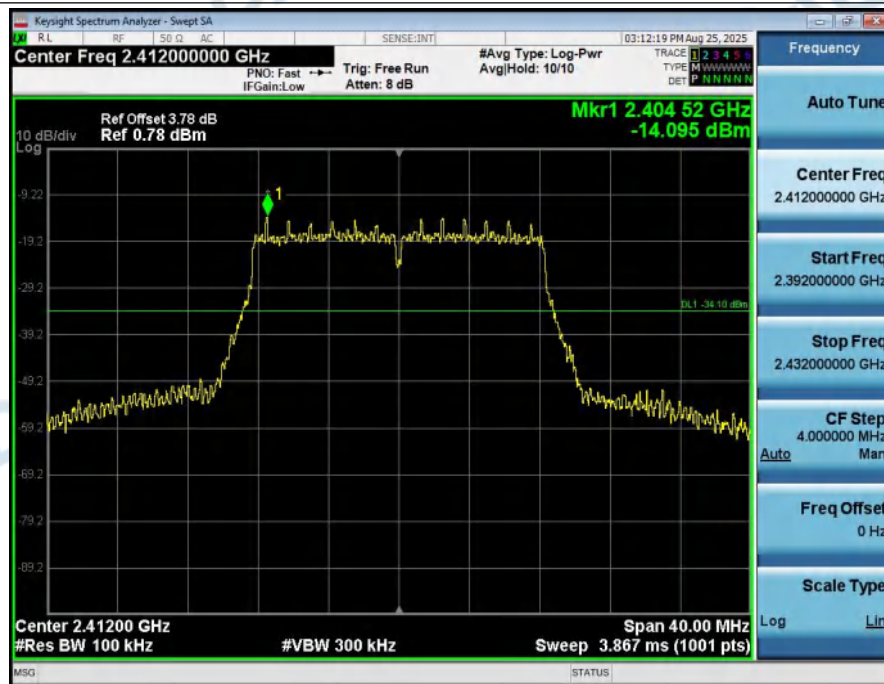
1_Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



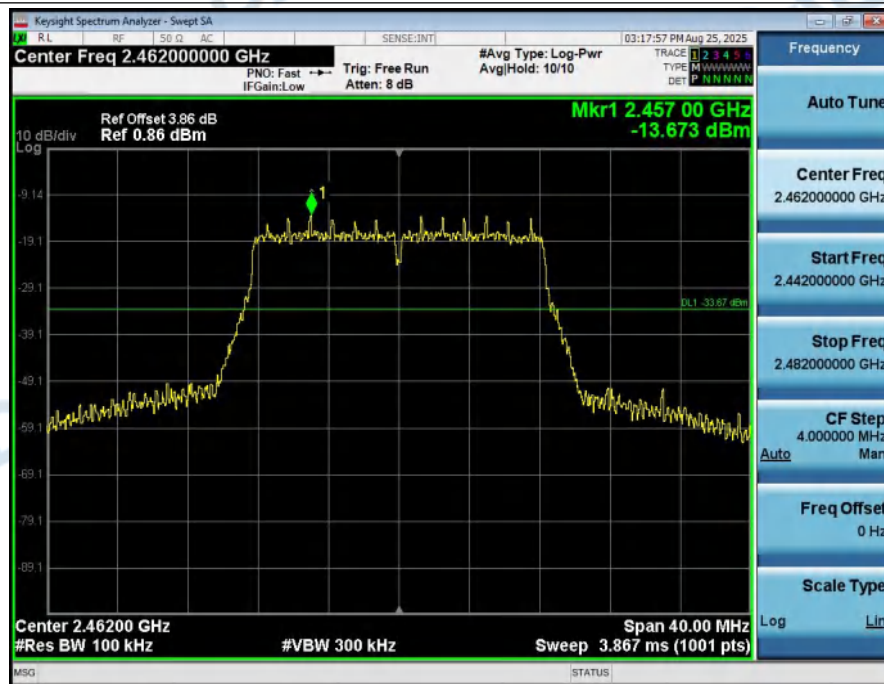
1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



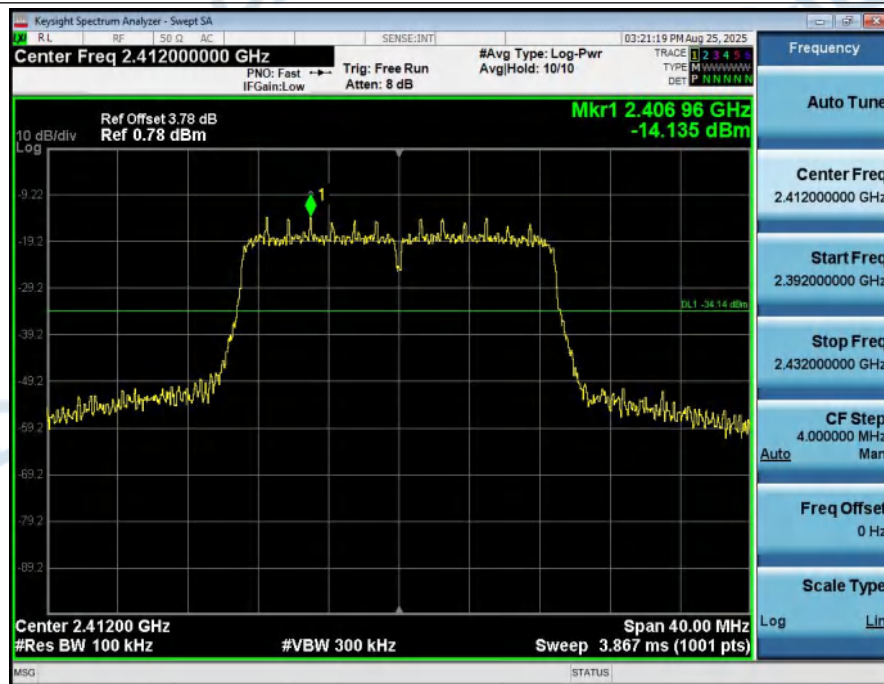
1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



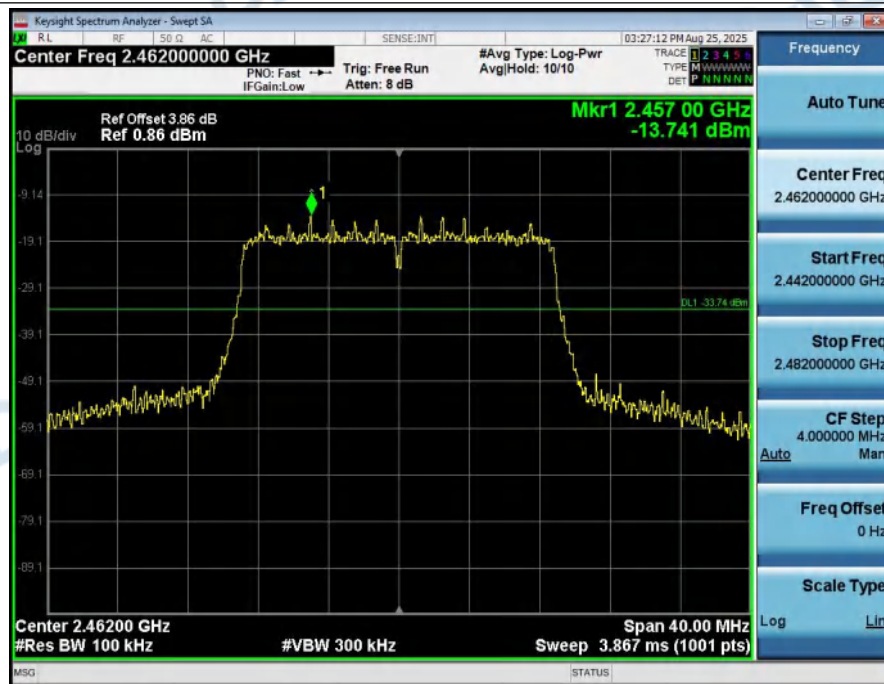
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



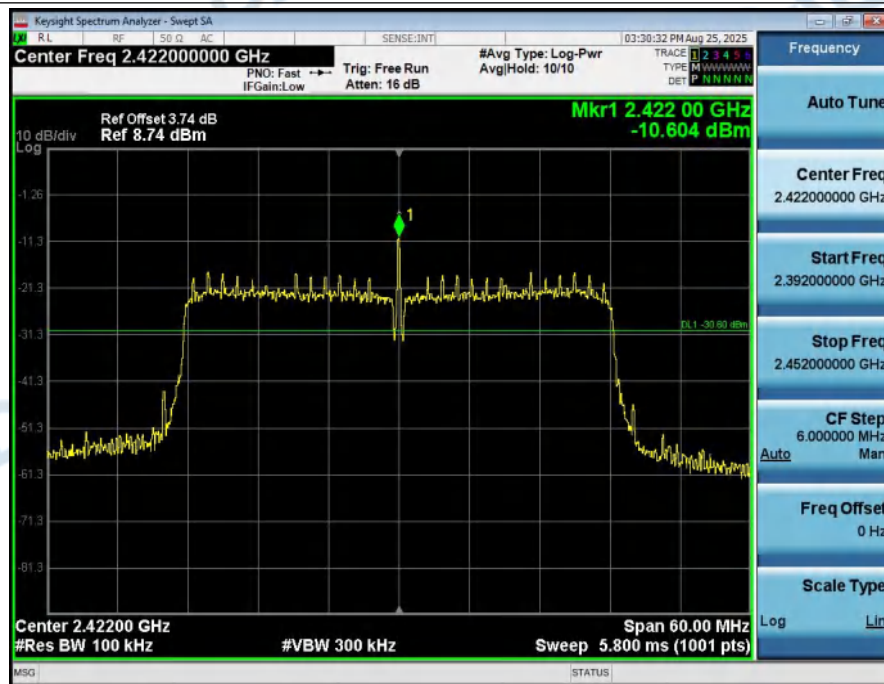
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



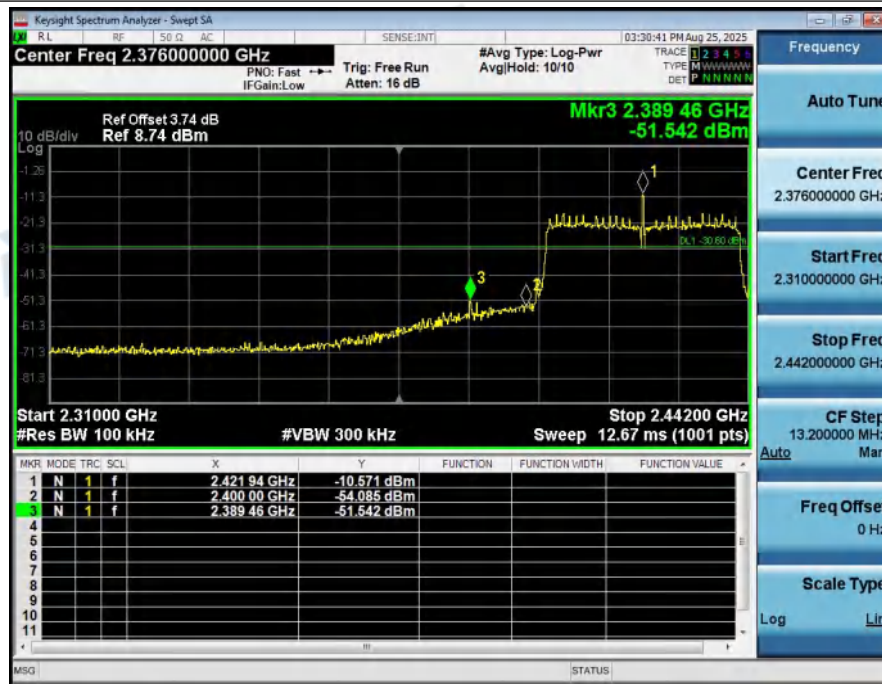
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



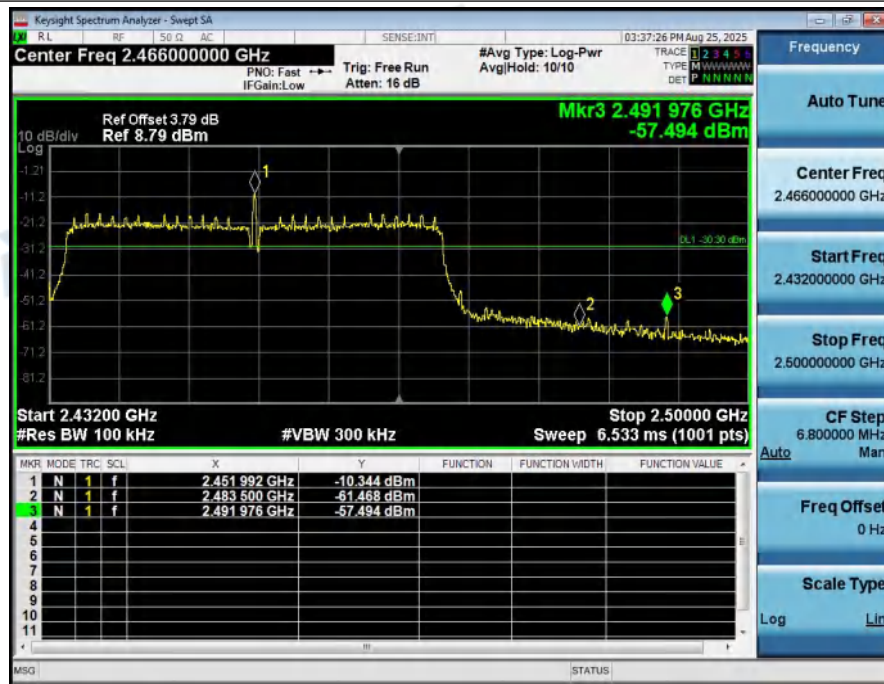
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



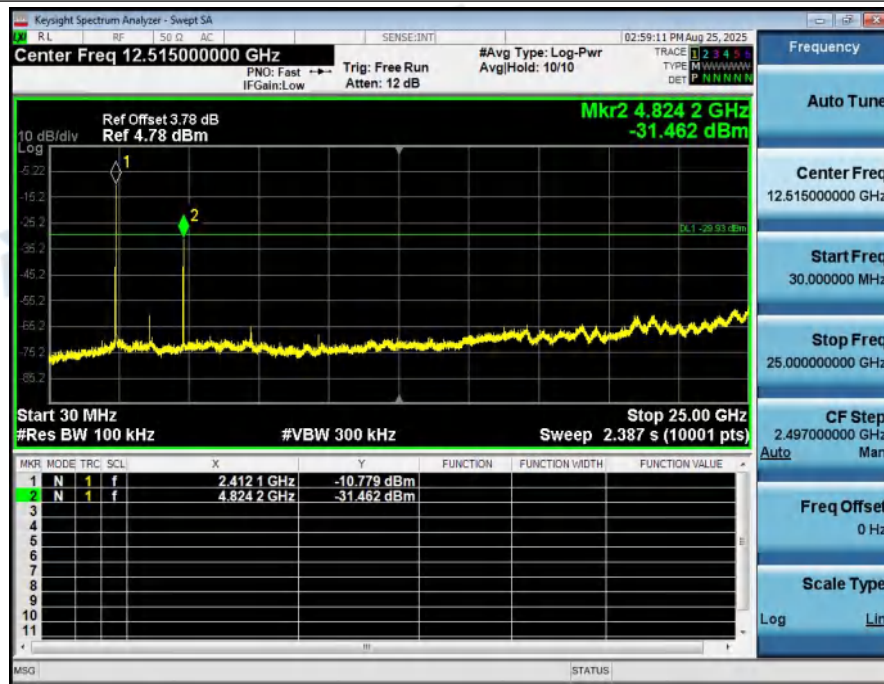
7. Spurious Emission

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	-9.931	-31.462	-29.931	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	-10.131	-32.327	-30.131	Pass
NVNT	ANT1	802.11b	2462.00	4924.120	-9.633	-32.968	-29.633	Pass
NVNT	ANT1	802.11g	2412.00	4824.240	-14.095	-44.772	-34.095	Pass
NVNT	ANT1	802.11g	2437.00	4871.683	-14.323	-44.392	-34.323	Pass
NVNT	ANT1	802.11g	2462.00	4924.120	-13.673	-45.669	-33.673	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	4819.246	-14.135	-45.538	-34.135	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	4874.180	-14.280	-46.065	-34.280	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	4911.635	-13.741	-46.789	-33.741	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	4831.731	-10.604	-45.525	-30.604	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	4861.695	-10.483	-45.672	-30.483	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	4904.144	-10.304	-48.831	-30.304	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



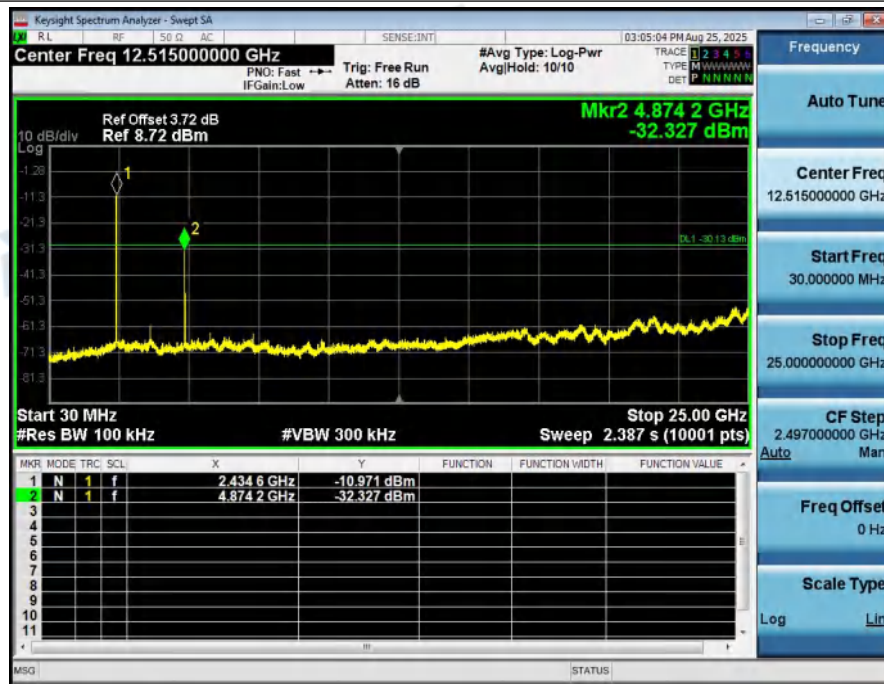
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437



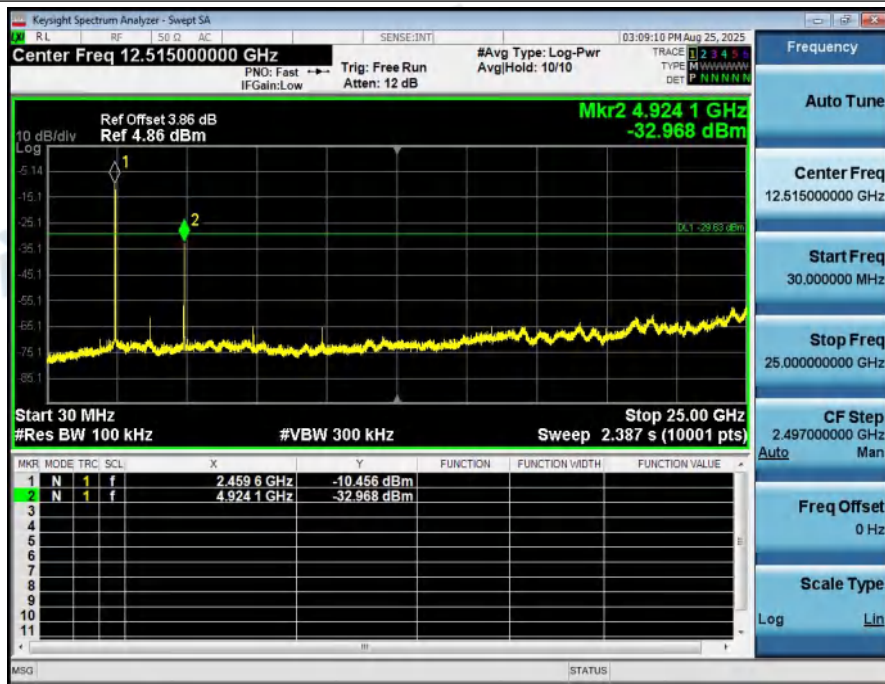
2_Spurious_Emission_NVNT_ANT1_802_11b_2437



1_Reference_Level_NVNT_ANT1_802_11b_2462



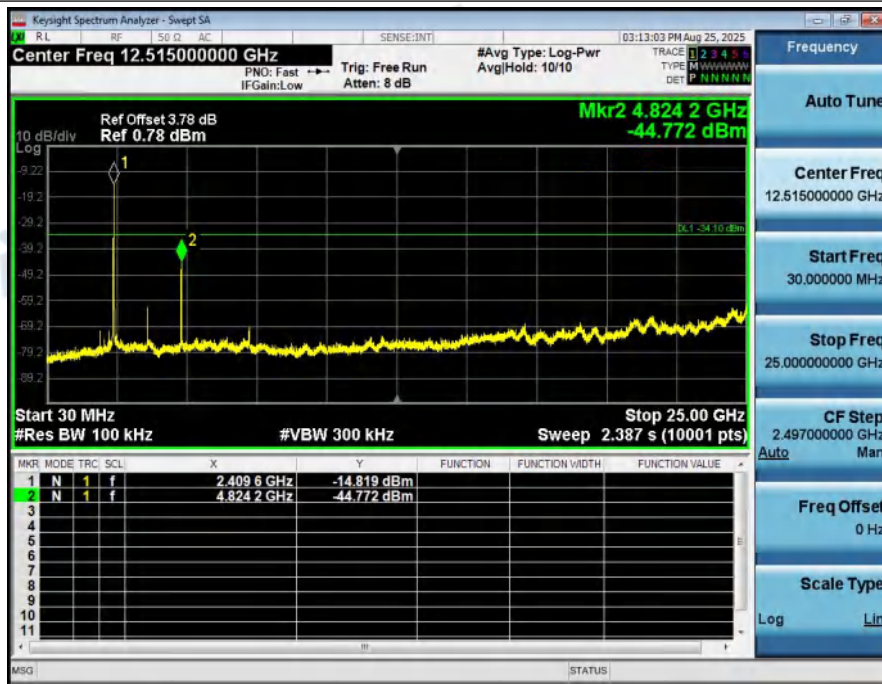
2_Spurious_Emission_NVNT_ANT1_802_11b_2462



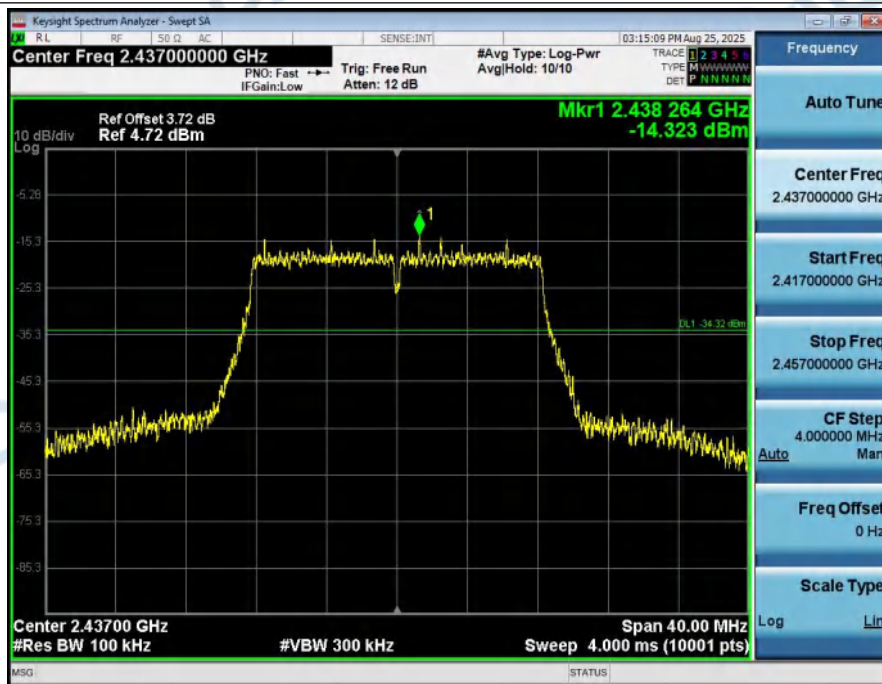
1_Reference_Level_NVNT_ANT1_802_11g_2412



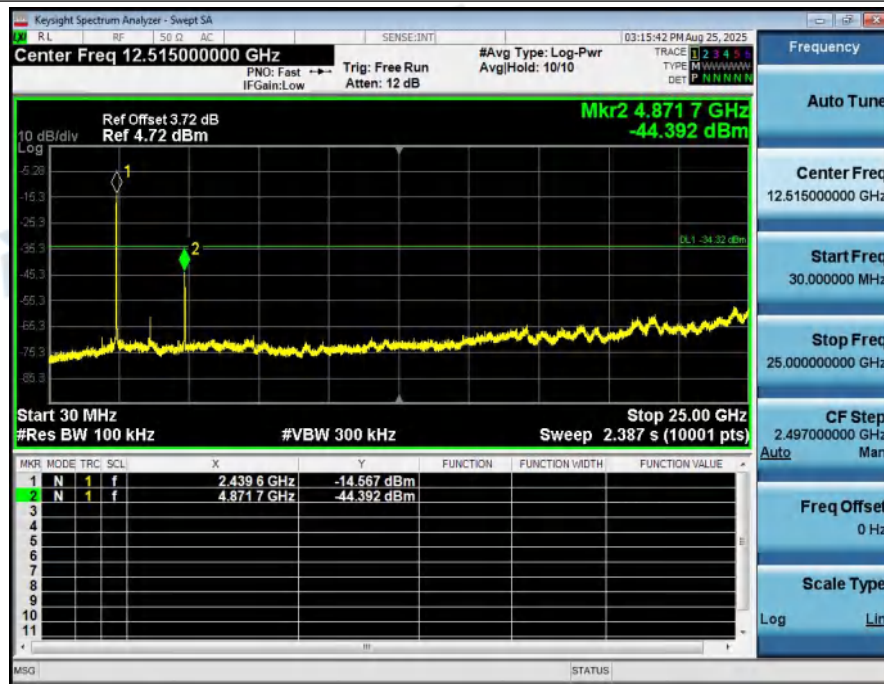
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



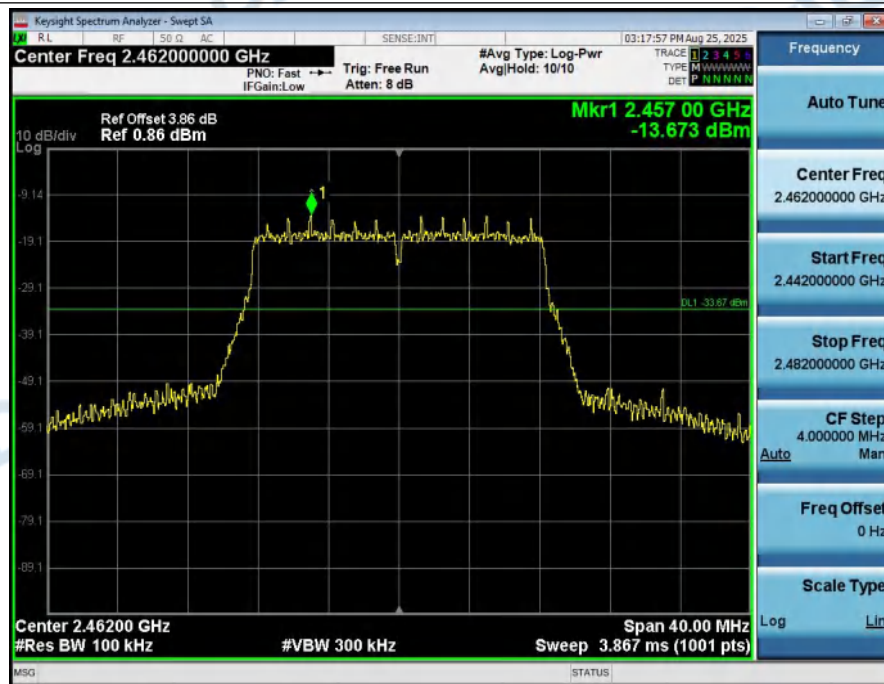
1_Reference_Level_NVNT_ANT1_802_11g_2437



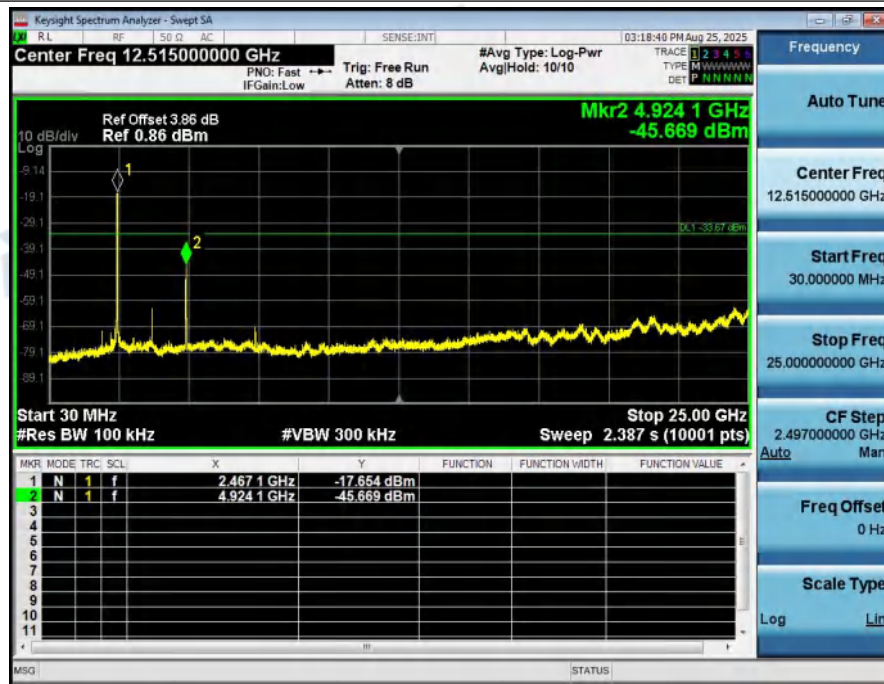
2_Spurious_Emission_NVNT_ANT1_802_11g_2437



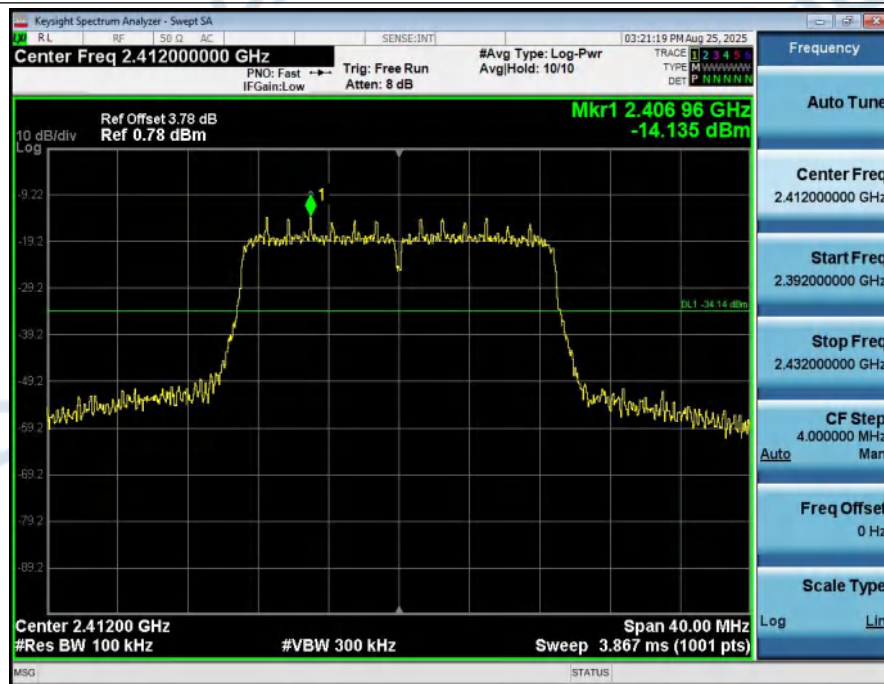
1_Reference_Level_NVNT_ANT1_802_11g_2462



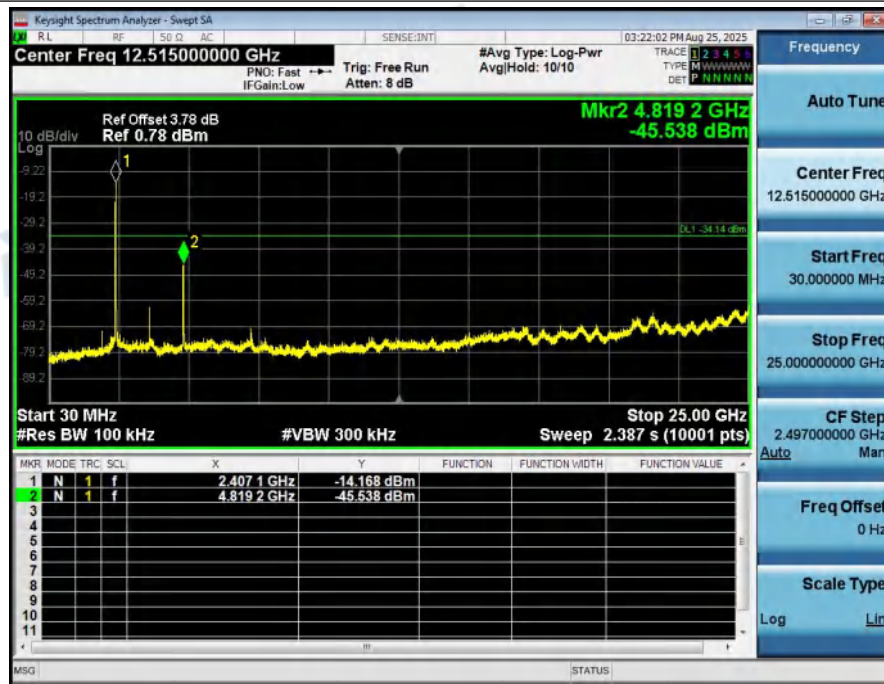
2_Spurious_Emission_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



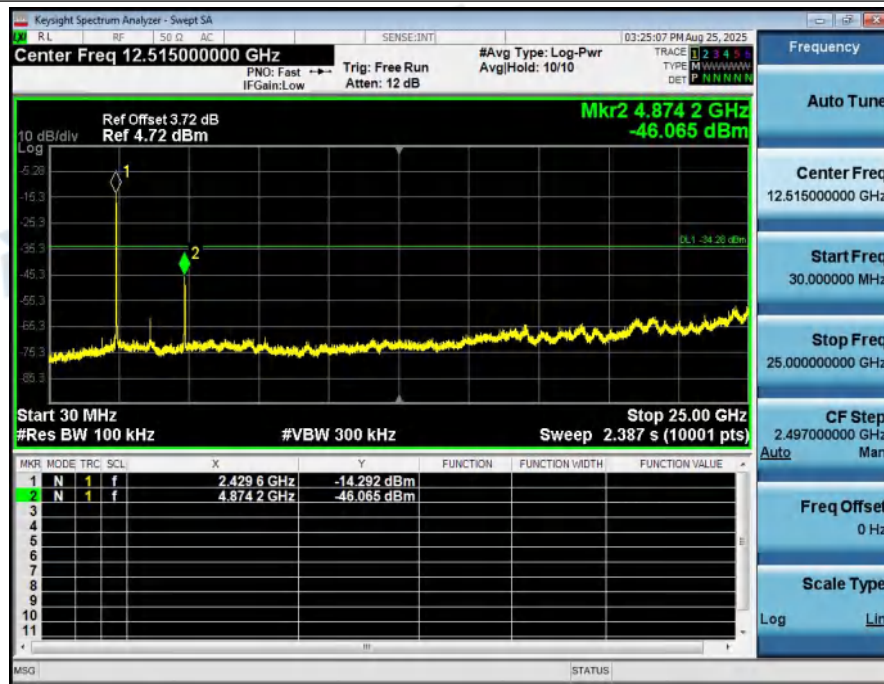
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



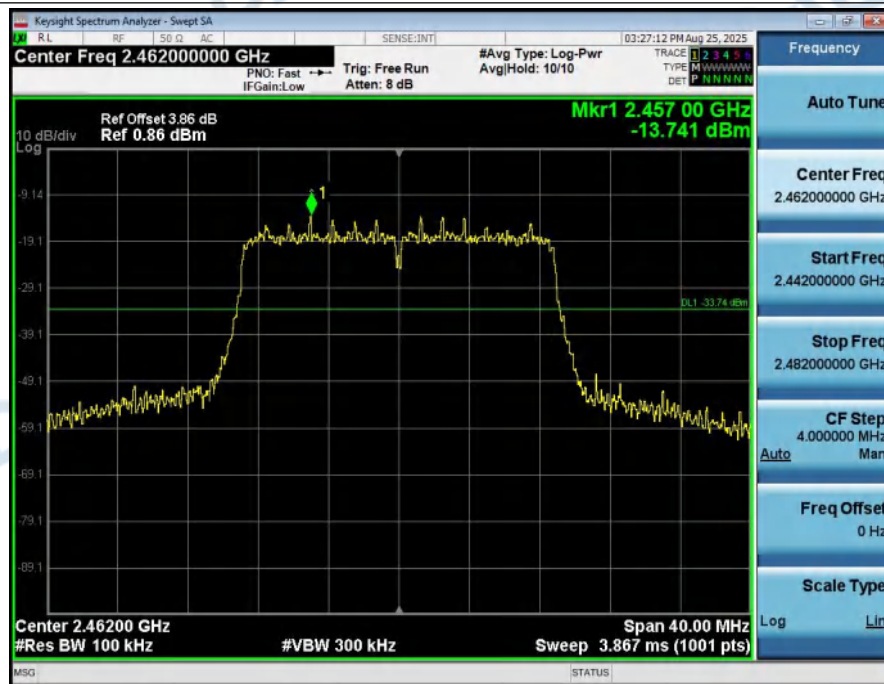
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



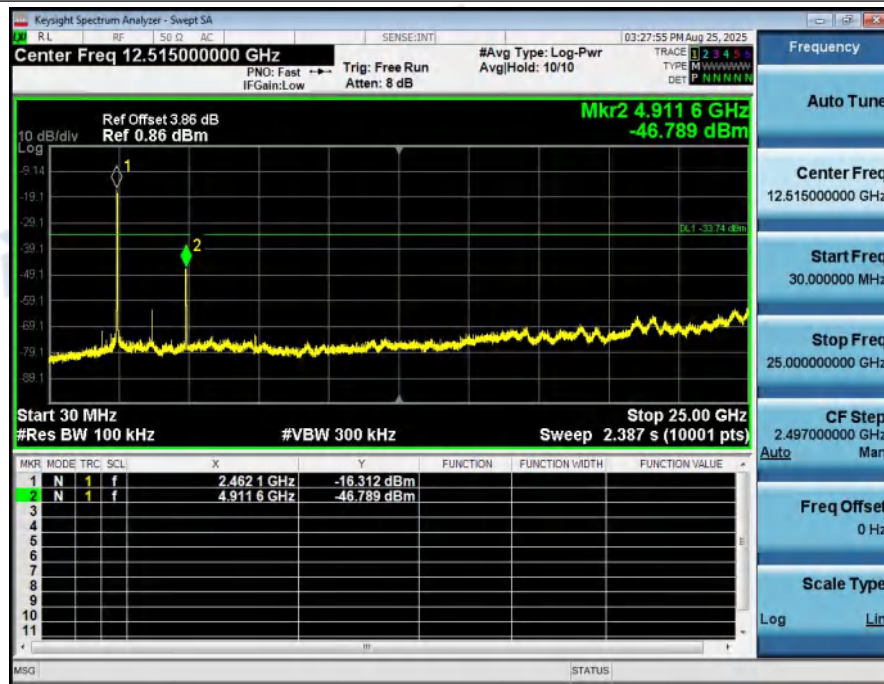
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



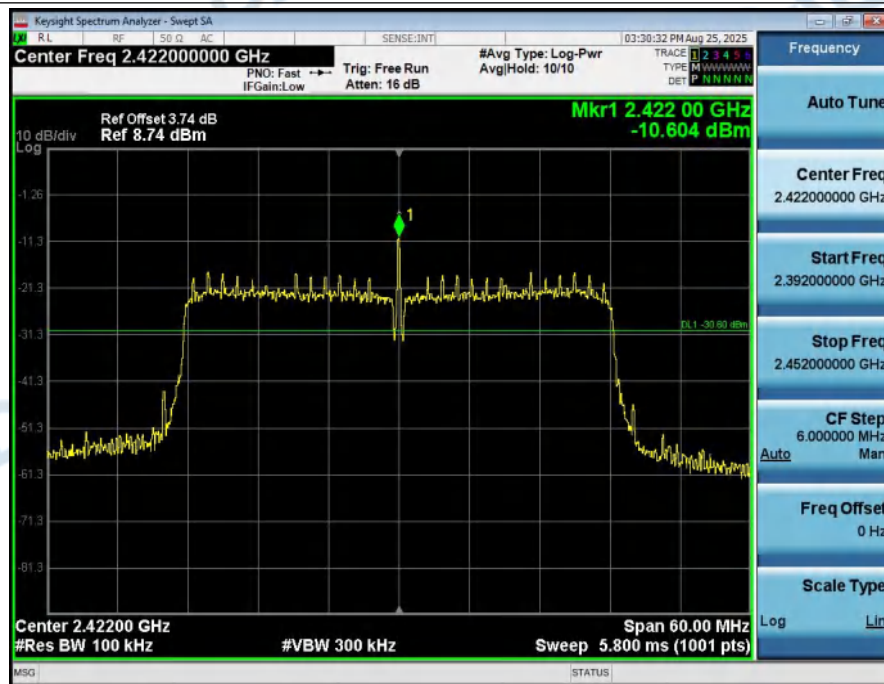
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



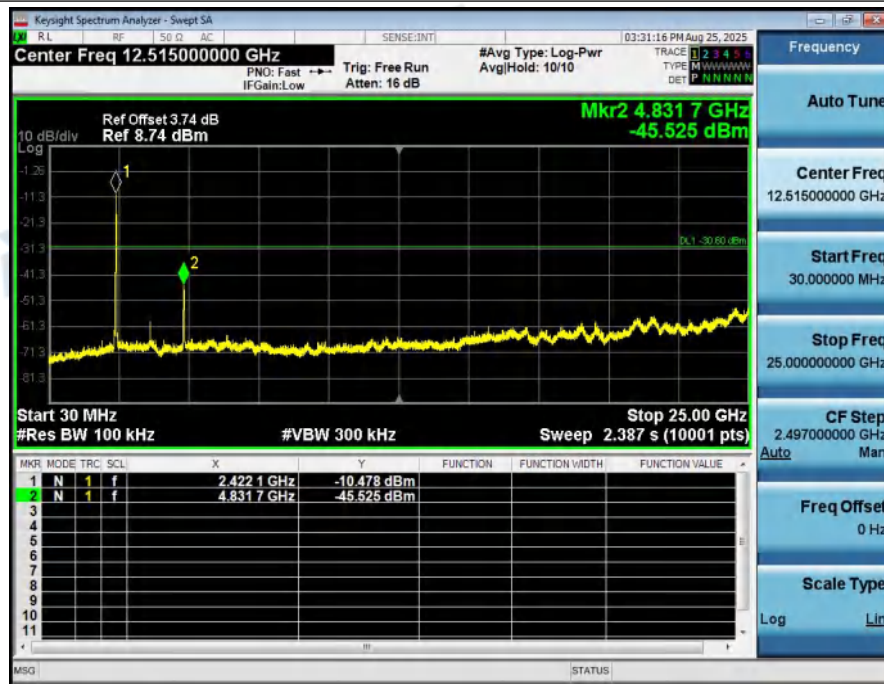
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



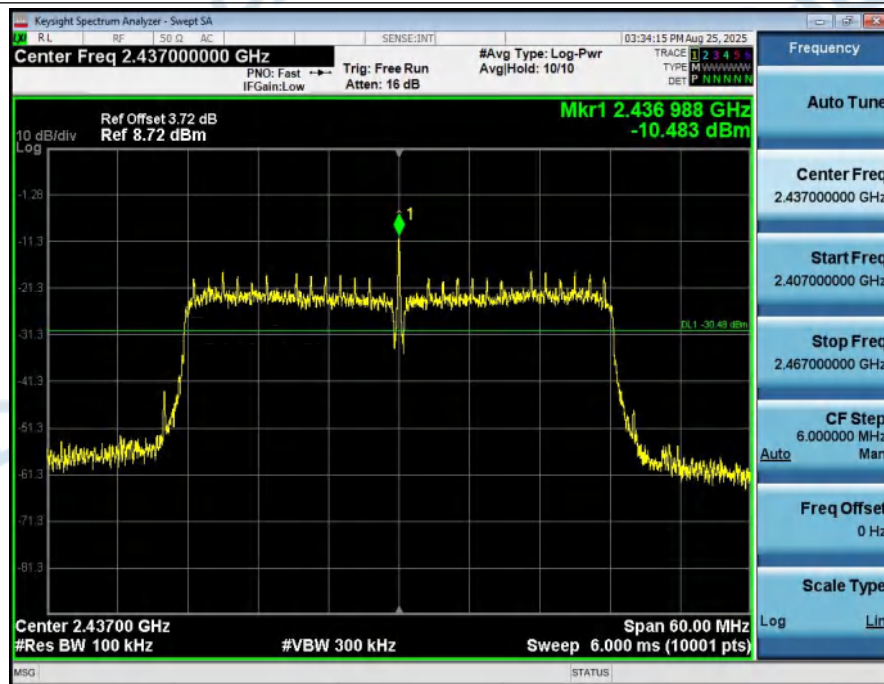
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



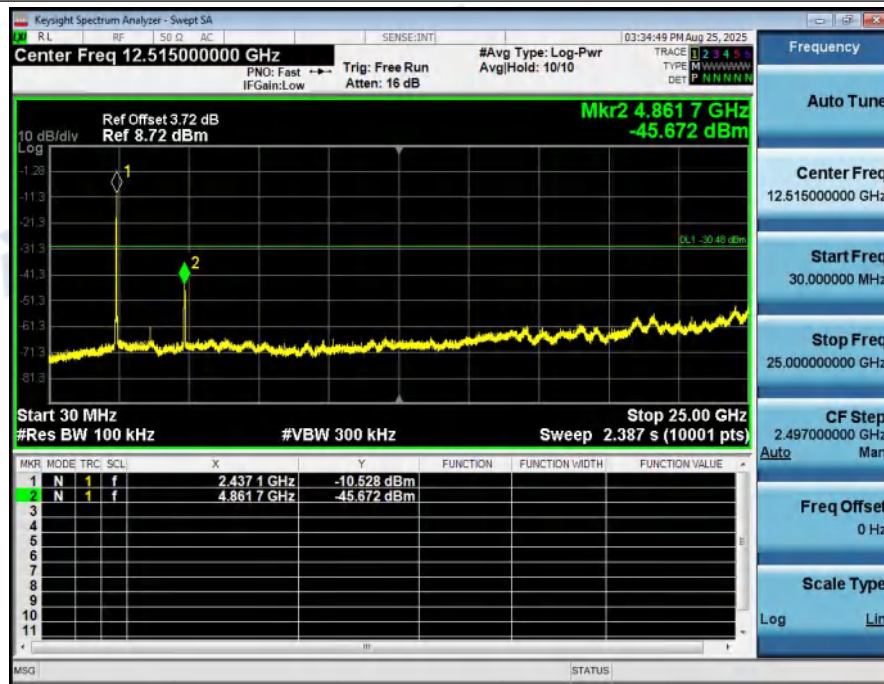
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437



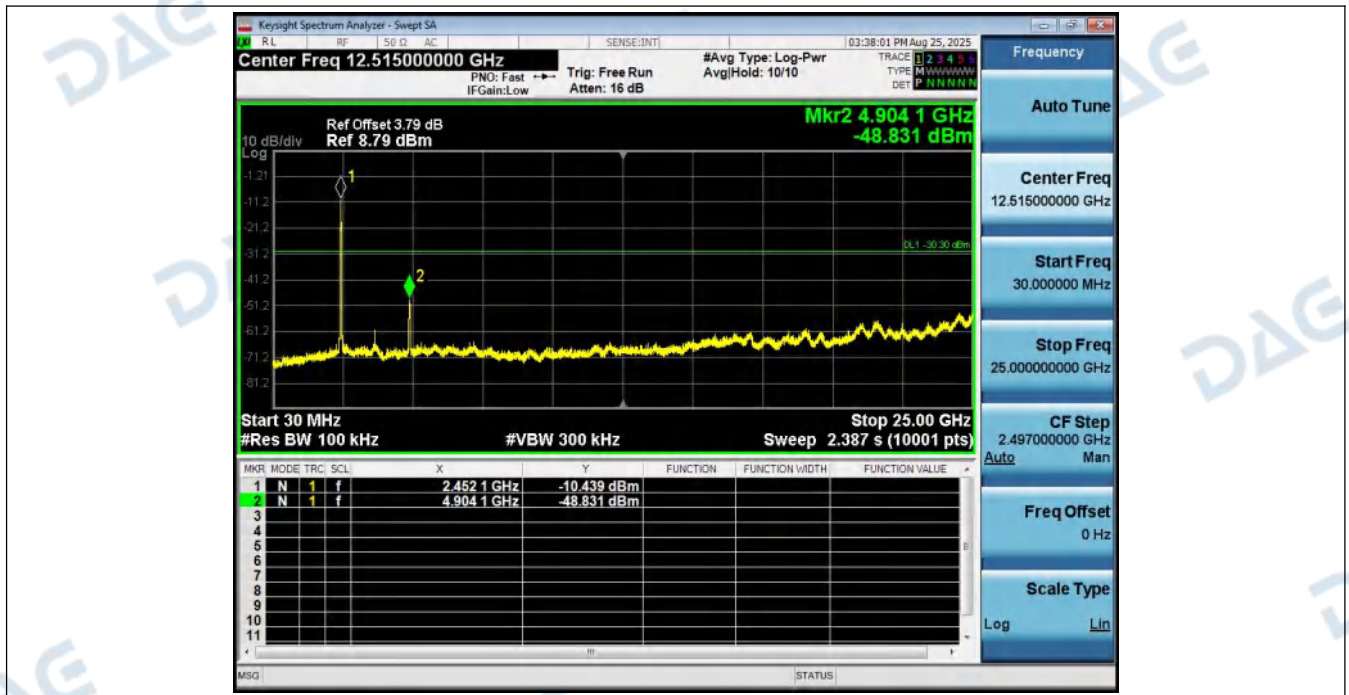
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



***** End of Report *****