

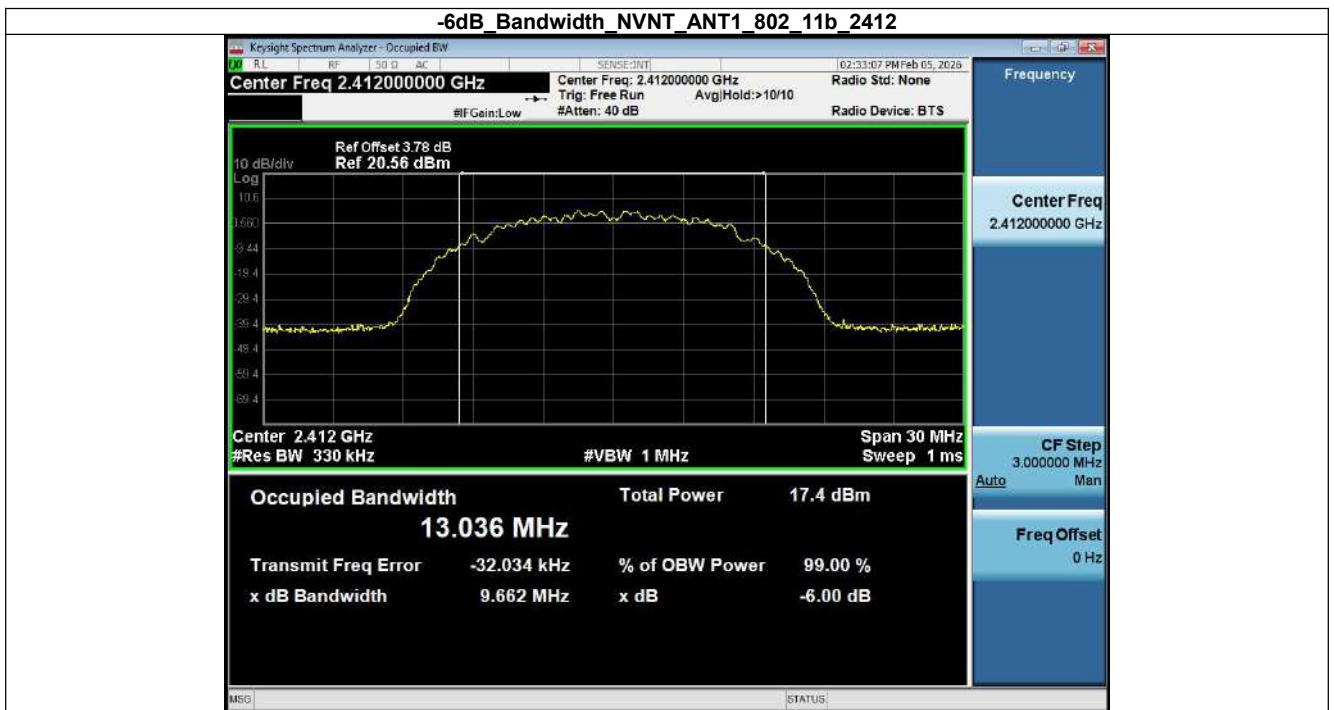
Report No.: NCT26006046E1-1
FCC ID:2BUVD-AIR2LE
FCC_2.4G_WIFI (Part15.247) Test Data

Table of Contents

1. -6dB Bandwidth	3
2. 99% Occupied Bandwidth	10
3. Duty Cycle	17
4. MAX. Output Power	24
5. Power Spectral Density	25
6. Bandedge	32
7. Spurious Emission	40

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.66	500	Pass
NVNT	ANT1	802.11b	2437.00	9.63	500	Pass
NVNT	ANT1	802.11b	2462.00	10.05	500	Pass
NVNT	ANT1	802.11g	2412.00	16.61	500	Pass
NVNT	ANT1	802.11g	2437.00	16.58	500	Pass
NVNT	ANT1	802.11g	2462.00	16.59	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.45	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.45	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.50	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.57	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.48	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.65	500	Pass



-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

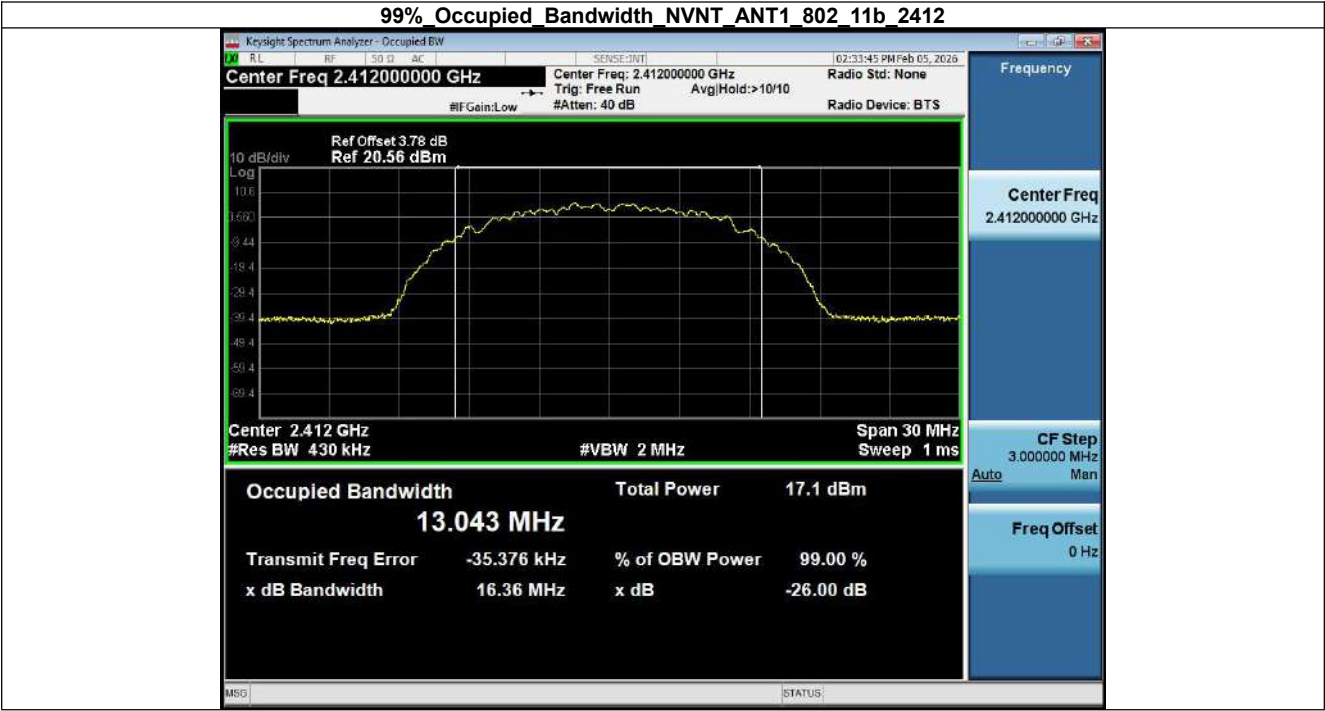


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.043
NVNT	ANT1	802.11b	2437.00	13.045
NVNT	ANT1	802.11b	2462.00	13.123
NVNT	ANT1	802.11g	2412.00	16.815
NVNT	ANT1	802.11g	2437.00	16.781
NVNT	ANT1	802.11g	2462.00	16.812
NVNT	ANT1	802.11n(HT20)	2412.00	17.472
NVNT	ANT1	802.11n(HT20)	2437.00	17.475
NVNT	ANT1	802.11n(HT20)	2462.00	29.734
NVNT	ANT1	802.11n(HT40)	2422.00	35.893
NVNT	ANT1	802.11n(HT40)	2437.00	35.802
NVNT	ANT1	802.11n(HT40)	2452.00	35.917



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

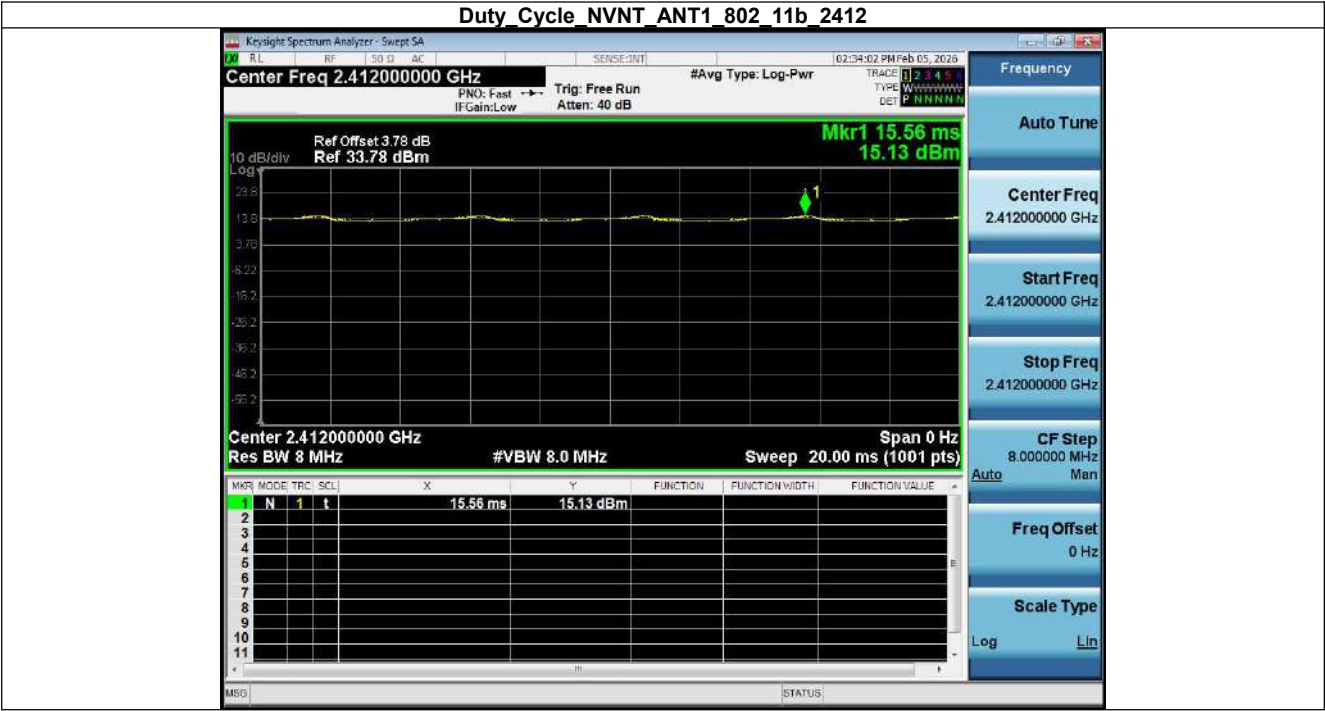


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



3. Duty Cycle

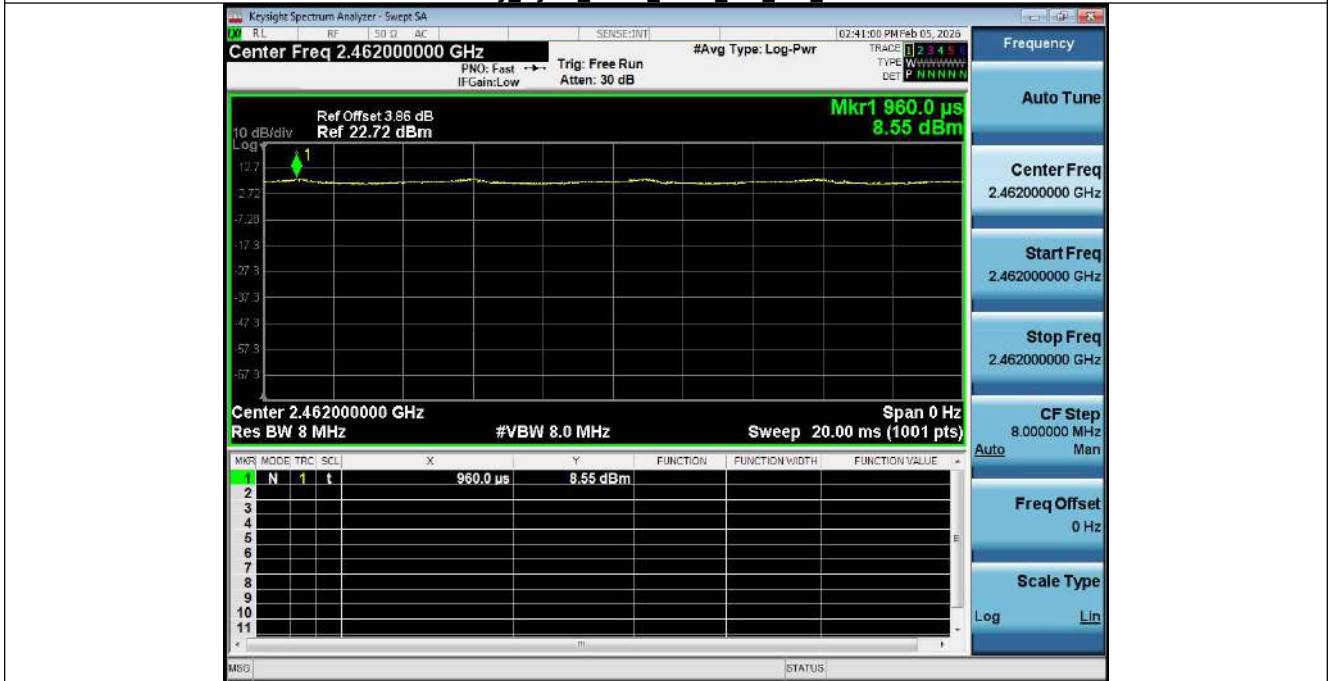
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	99.82	0.00
NVNT	ANT1	802.11g	2437.00	99.82	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	99.87	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	99.53	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	99.87	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	99.73	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	99.20	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	99.73	0.00



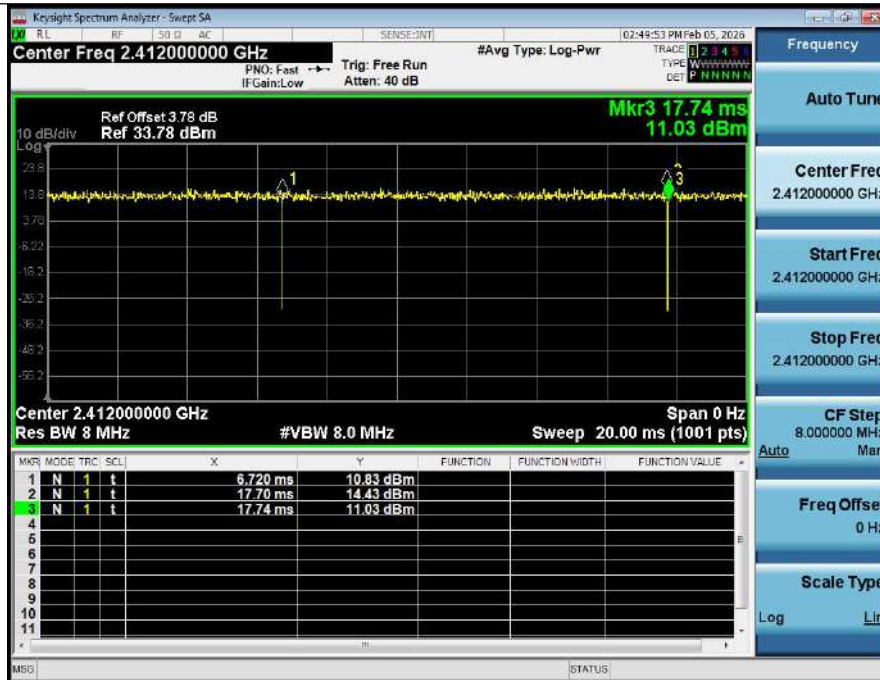
Duty Cycle NVNT ANT1 802 11b 2437



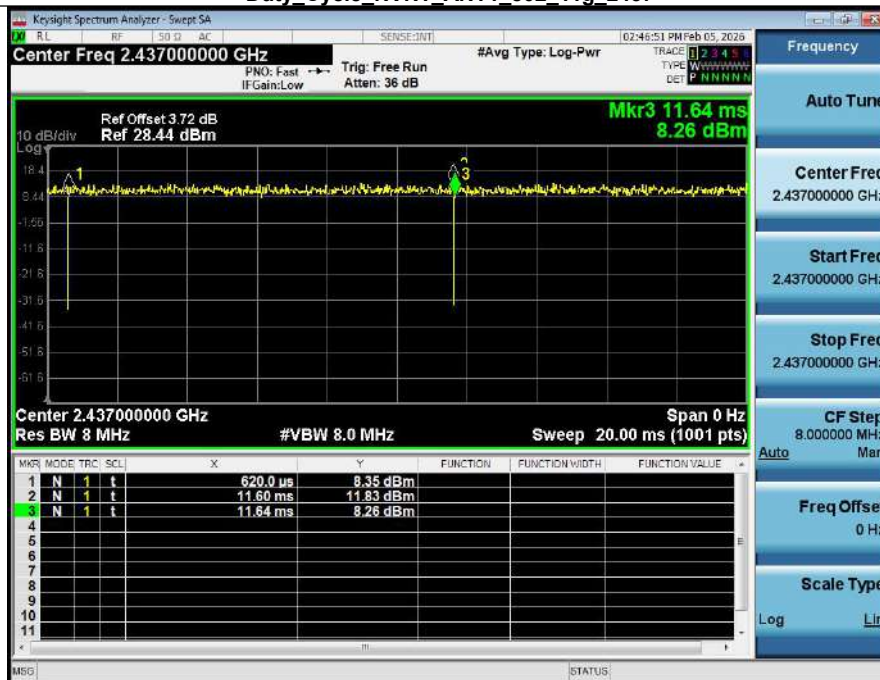
Duty_Cycle_NVNT_ANT1_802_11b_2462



Duty_Cycle_NVNT_ANT1_802_11g_2412



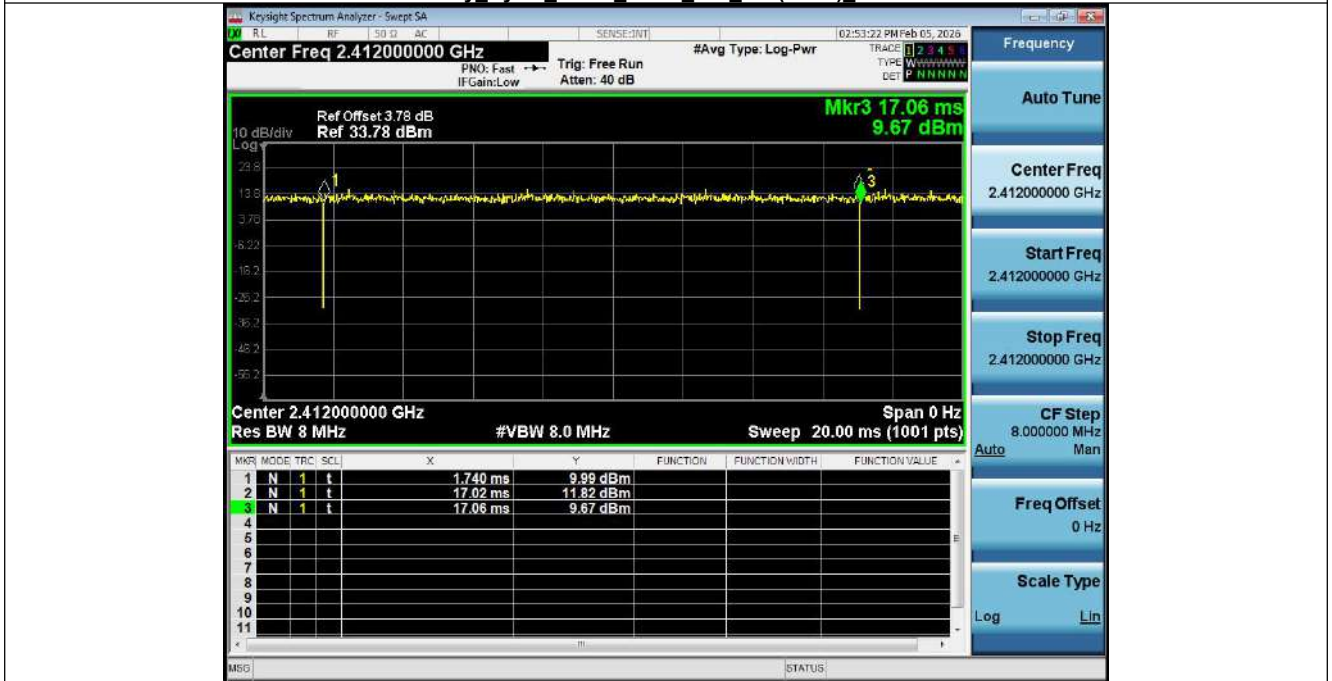
Duty_Cycle_NVNT_ANT1_802_11g_2437



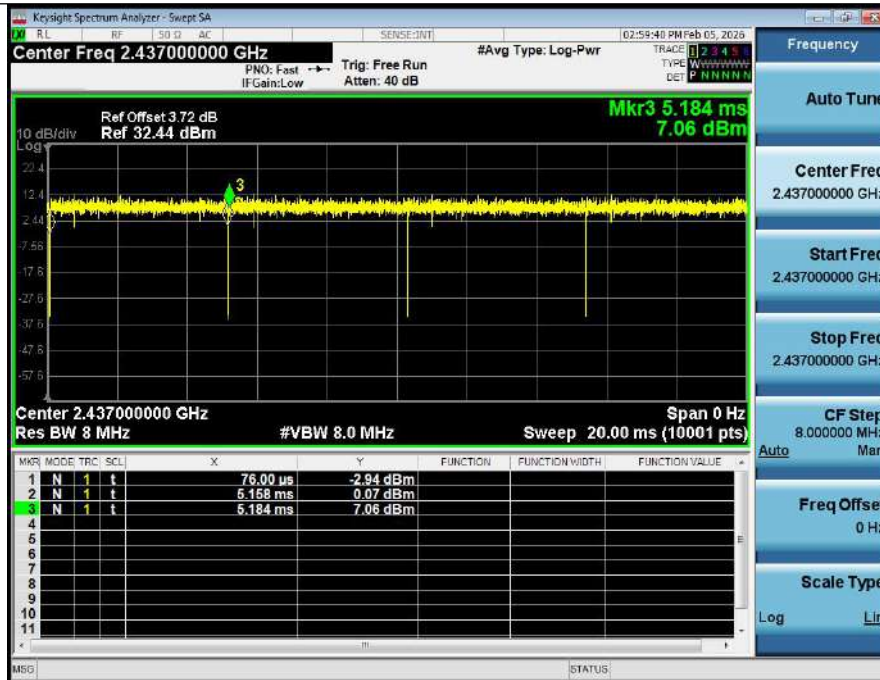
Duty_Cycle_NVNT_ANT1_802_11g_2462



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



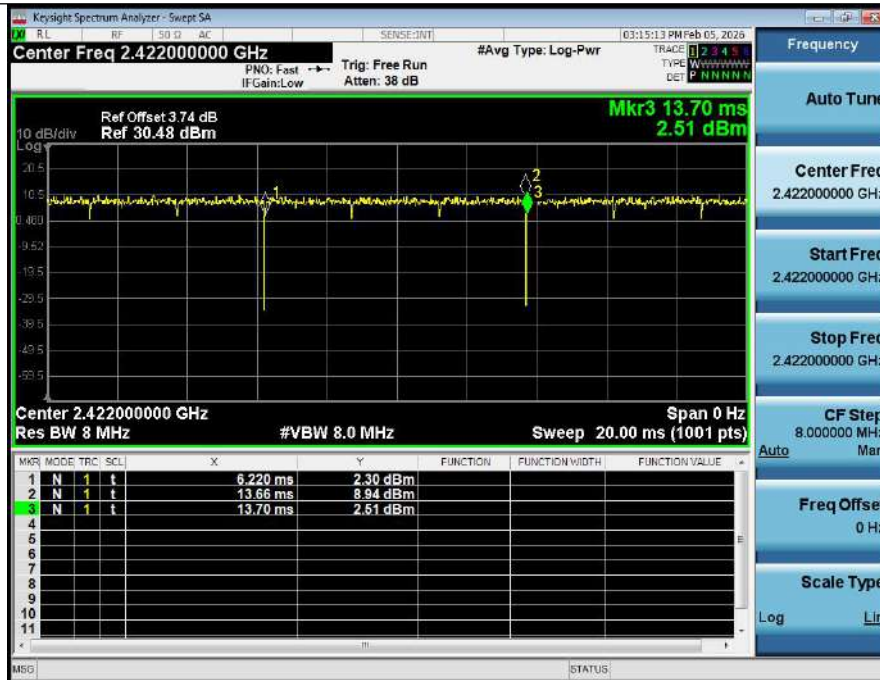
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



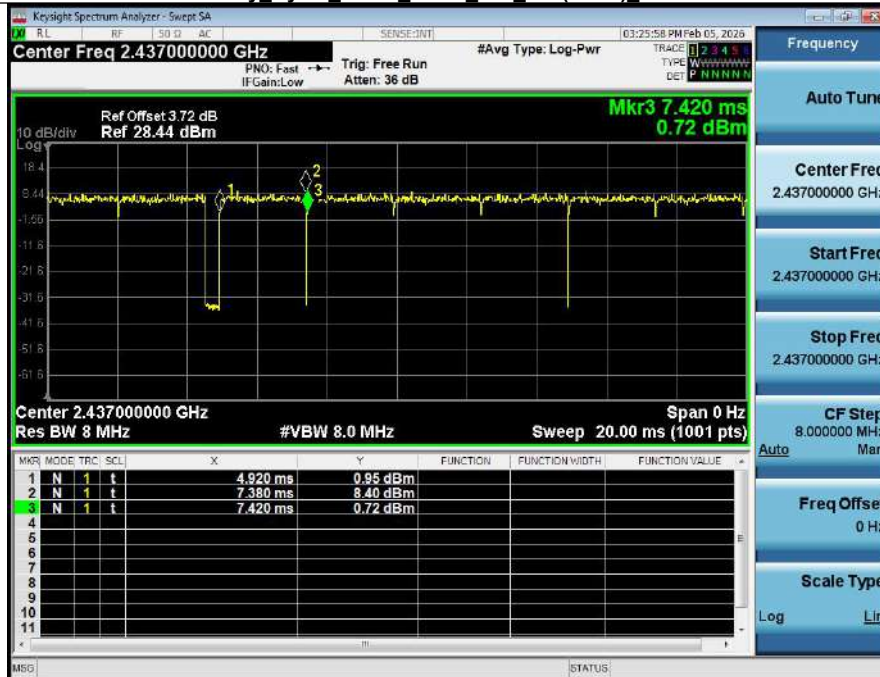
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



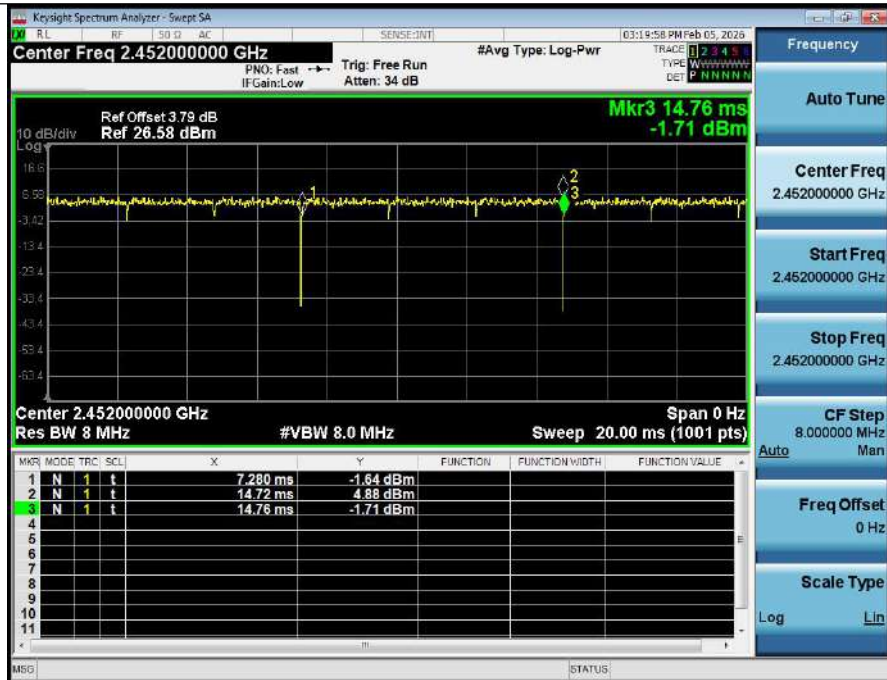
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	16.77	16.77	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	14.52	14.52	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	13.33	13.33	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	15.99	15.99	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	13.65	13.65	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	11.34	11.34	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	14.77	14.77	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	12.52	12.52	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	10.27	10.27	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	13.55	13.55	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	12.03	12.03	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	10.38	10.38	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/3kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-3.12	N/A	-10.00	-13.12	8	Pass
NVNT	ANT1	802.11b	2437.00	-5.05	N/A	-10.00	-15.05	8	Pass
NVNT	ANT1	802.11b	2462.00	-10.03	N/A	-10.00	-20.03	8	Pass
NVNT	ANT1	802.11g	2412.00	-6.33	N/A	-10.00	-16.33	8	Pass
NVNT	ANT1	802.11g	2437.00	-9.04	N/A	-10.00	-19.04	8	Pass
NVNT	ANT1	802.11g	2462.00	-13.06	N/A	-10.00	-23.06	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-8.12	N/A	-10.00	-18.12	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-10.38	N/A	-10.00	-20.38	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-14.48	N/A	-10.00	-24.48	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-11.77	N/A	-10.00	-21.77	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-13.29	N/A	-10.00	-23.29	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-16.17	N/A	-10.00	-26.17	8	Pass



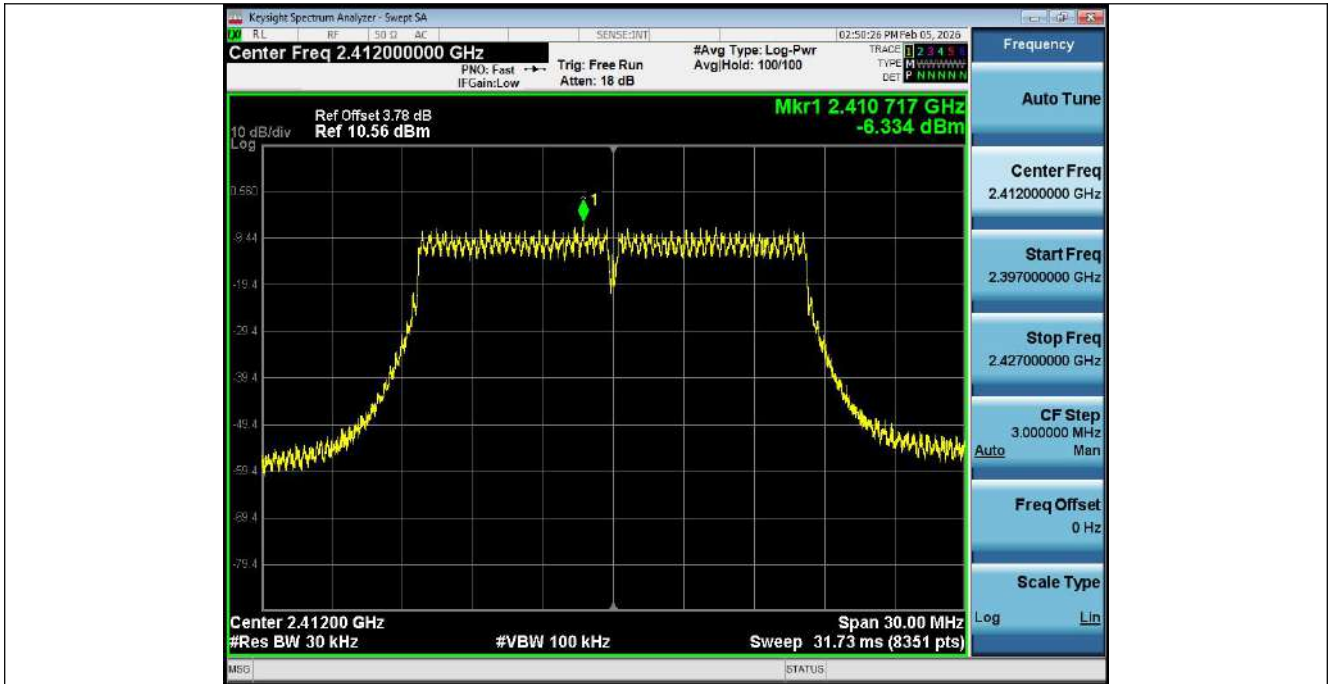
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



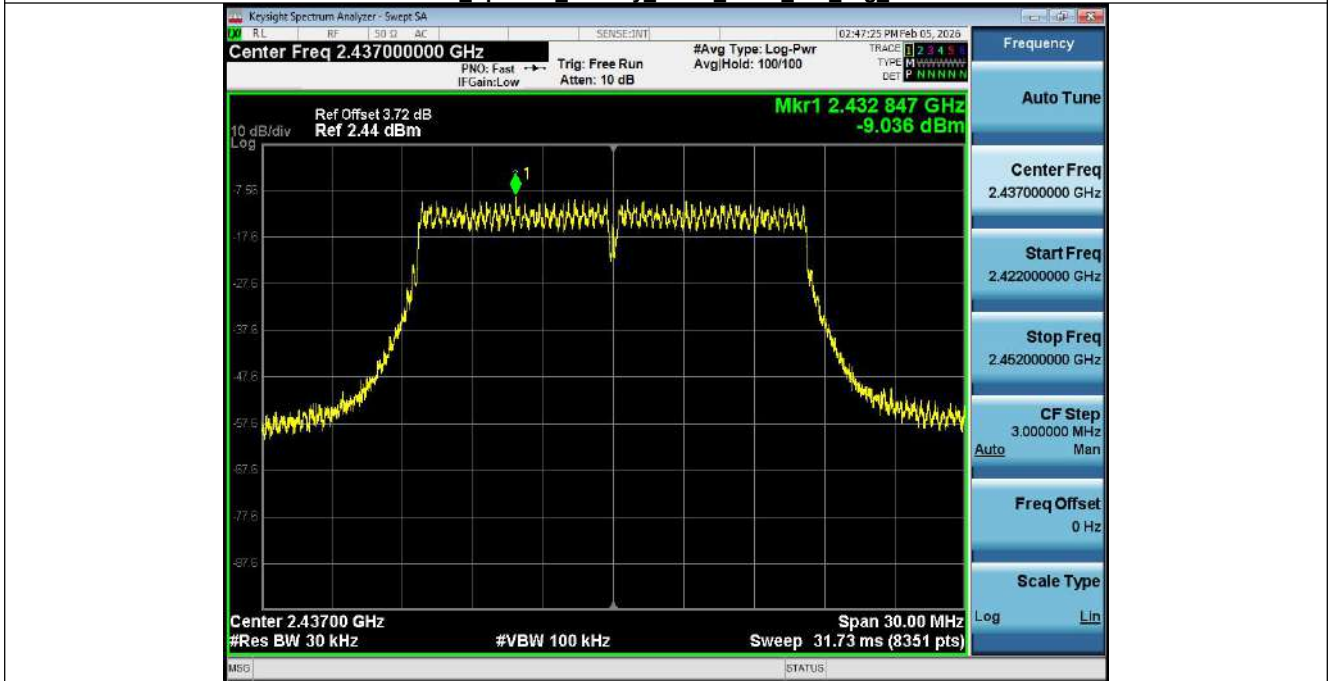
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



Power_Spectral_Density_NVNT_ANT1_802_11g_2412



Power_Spectral_Density_NVNT_ANT1_802_11g_2437



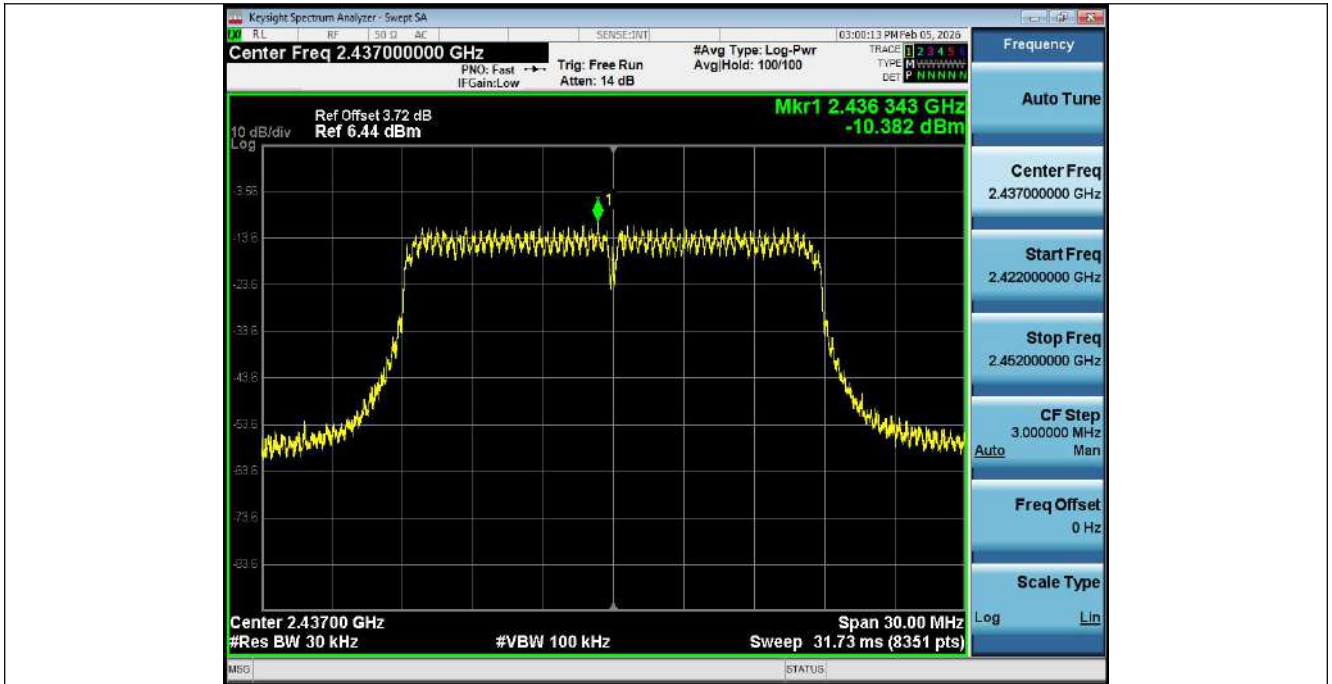
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



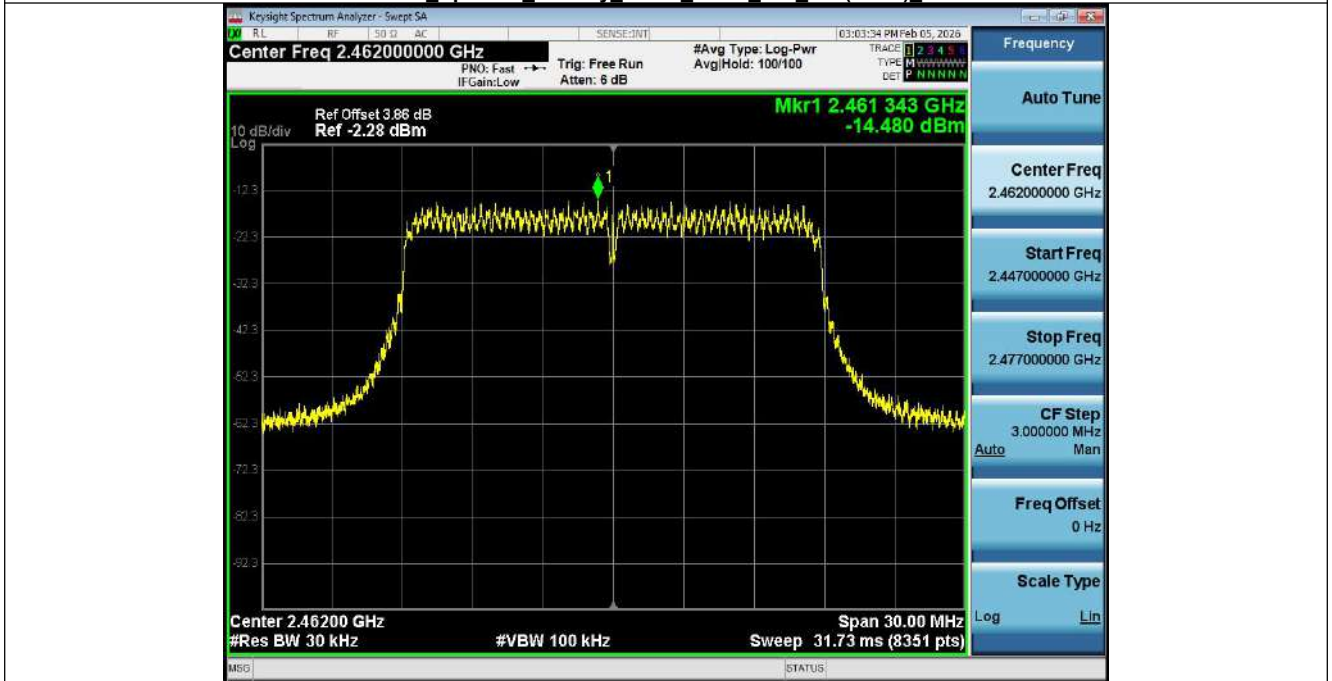
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



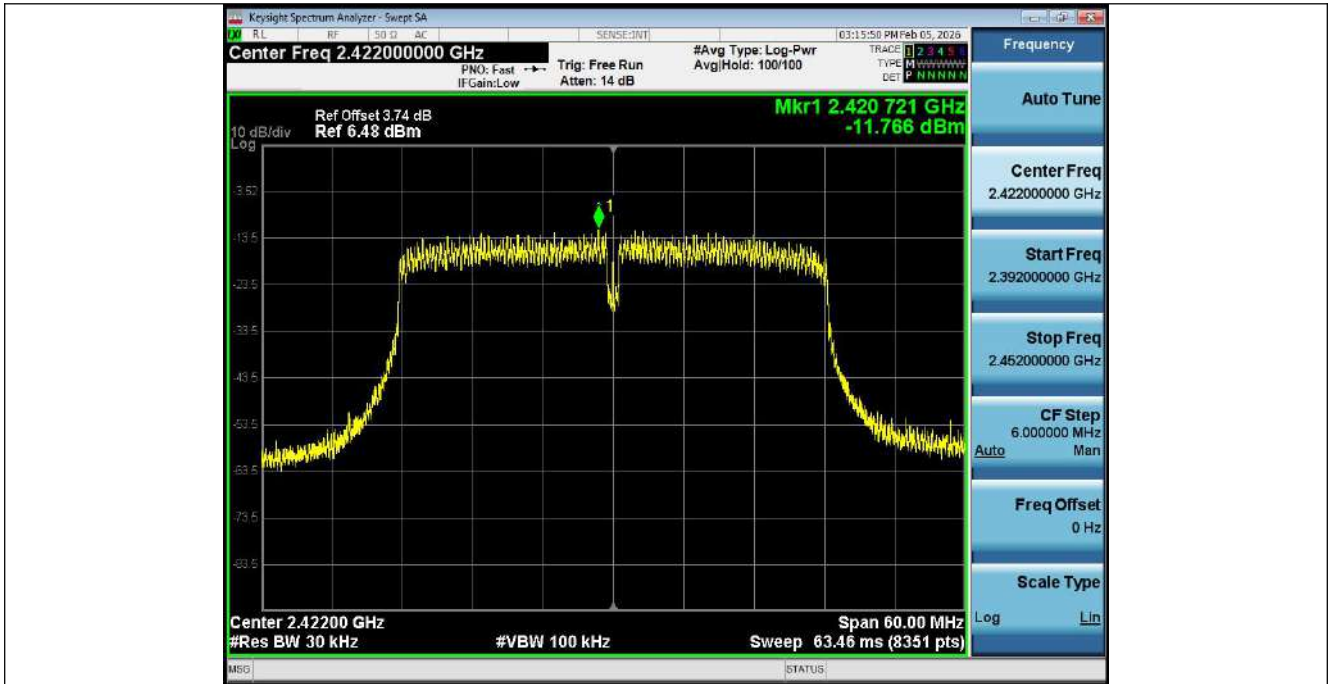
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



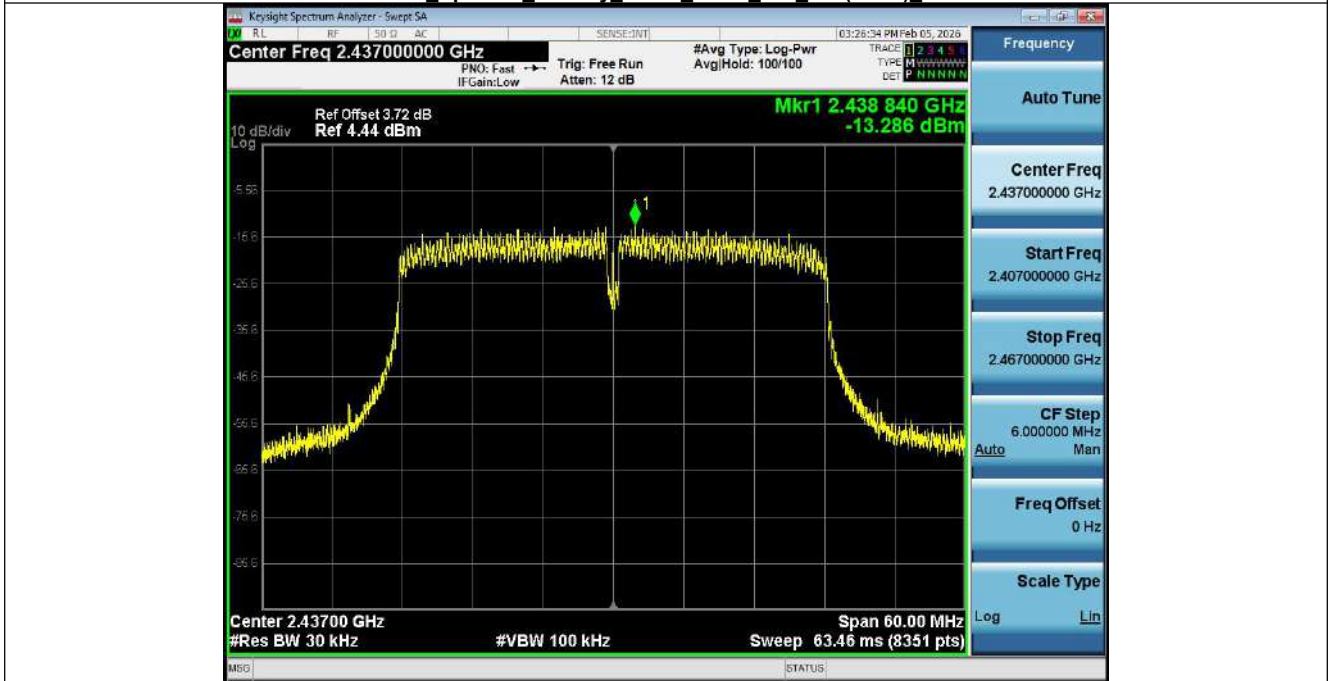
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



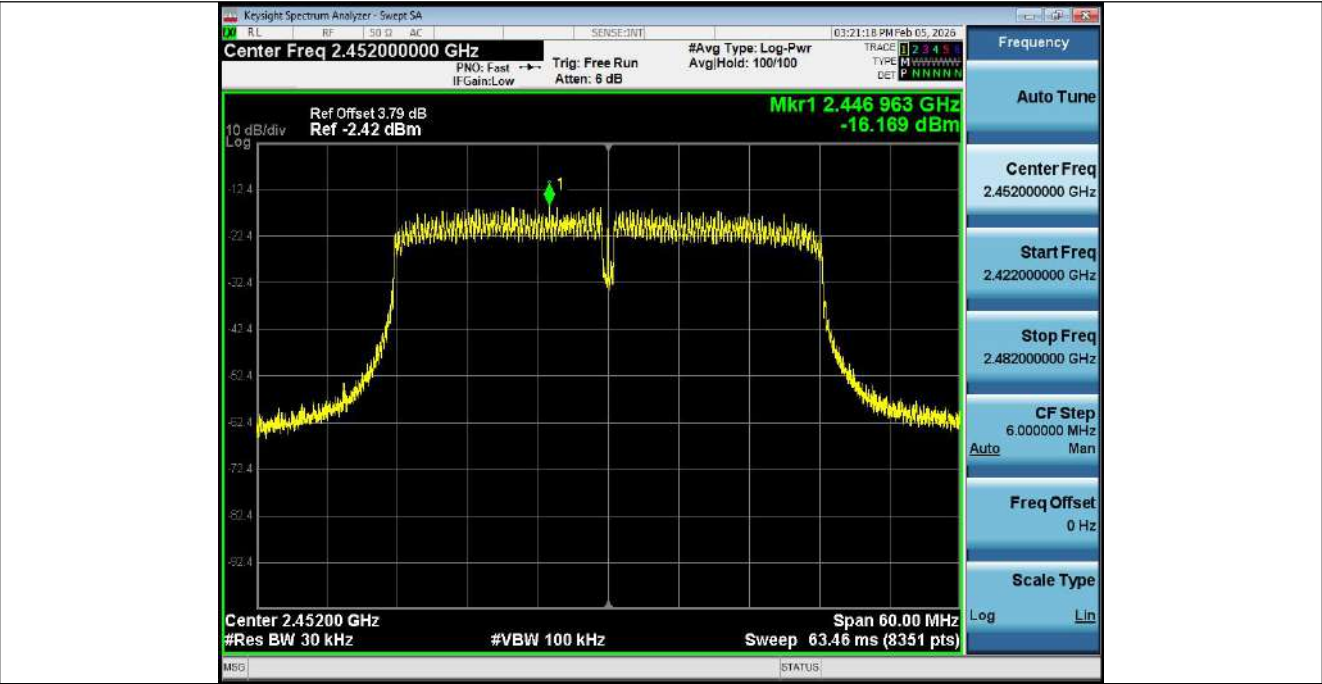
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



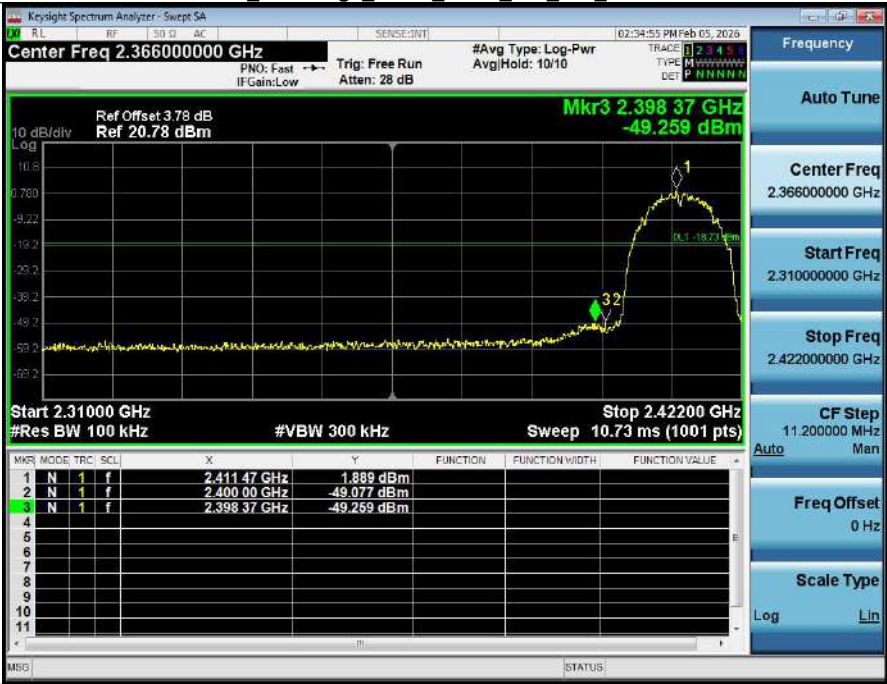
6. Bandedge

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	2398.368	1.270	-49.259	-18.730	Pass
NVNT	ANT1	802.11b	2462.00	2488.816	-5.158	-55.839	-25.158	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-2.618	-48.621	-22.618	Pass
NVNT	ANT1	802.11g	2462.00	2490.592	-9.307	-56.452	-29.307	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-3.425	-47.125	-23.425	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.872	-10.277	-57.217	-30.277	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.892	-7.670	-48.067	-27.670	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.816	-11.652	-54.534	-31.652	Pass

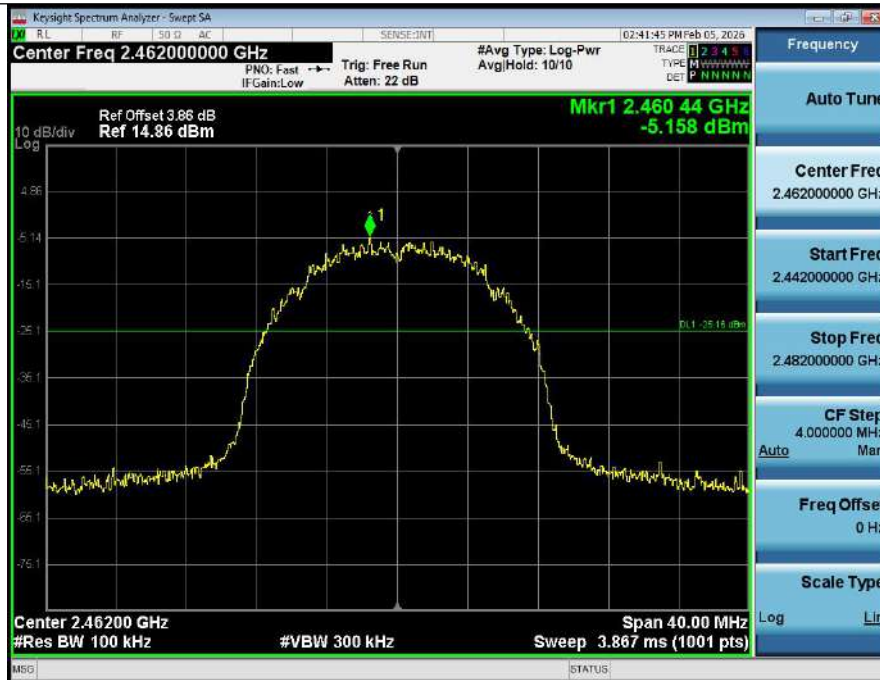
1 Reference_Level_NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



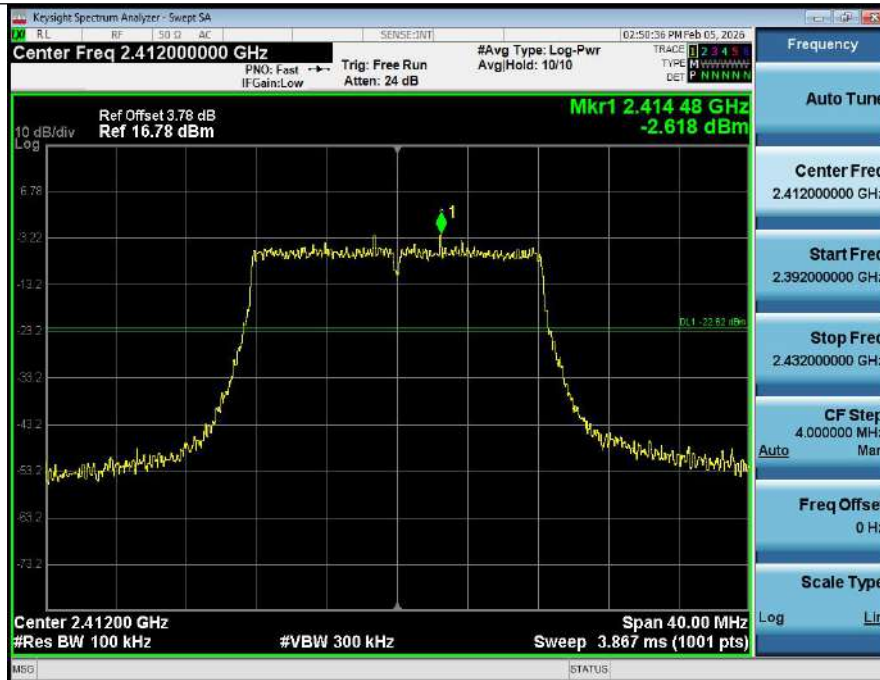
1 Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



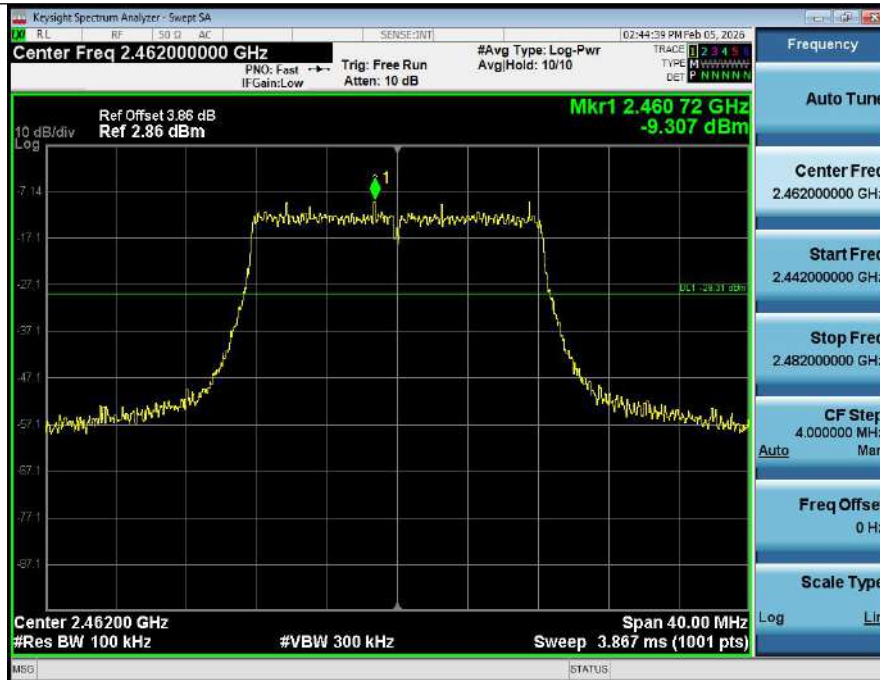
1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



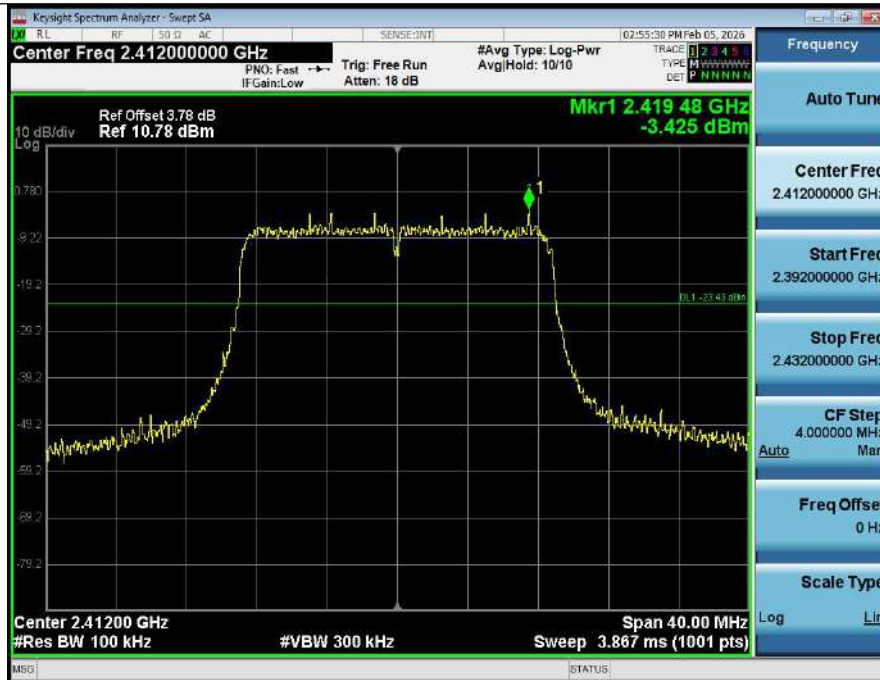
1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



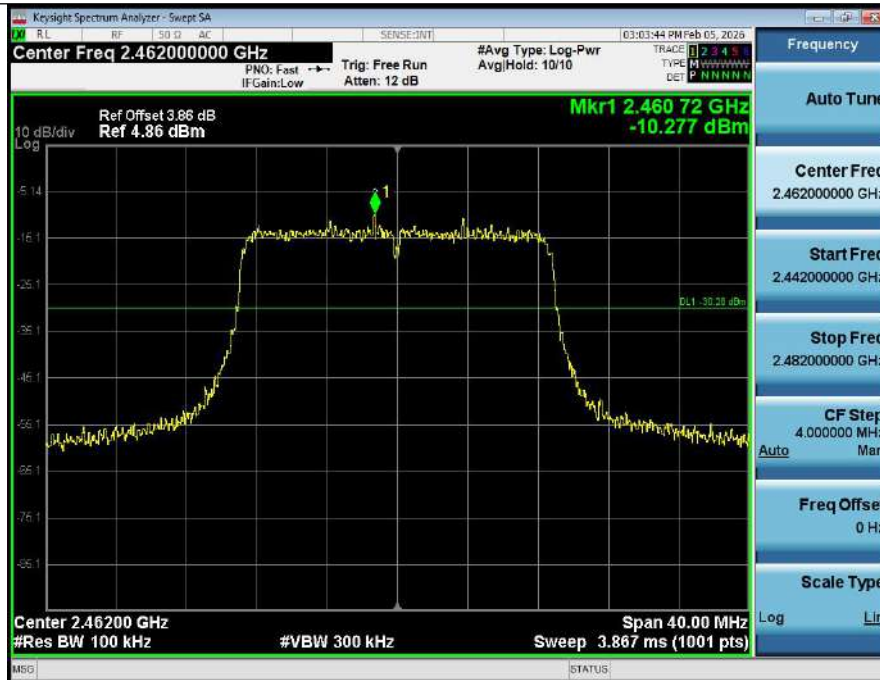
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



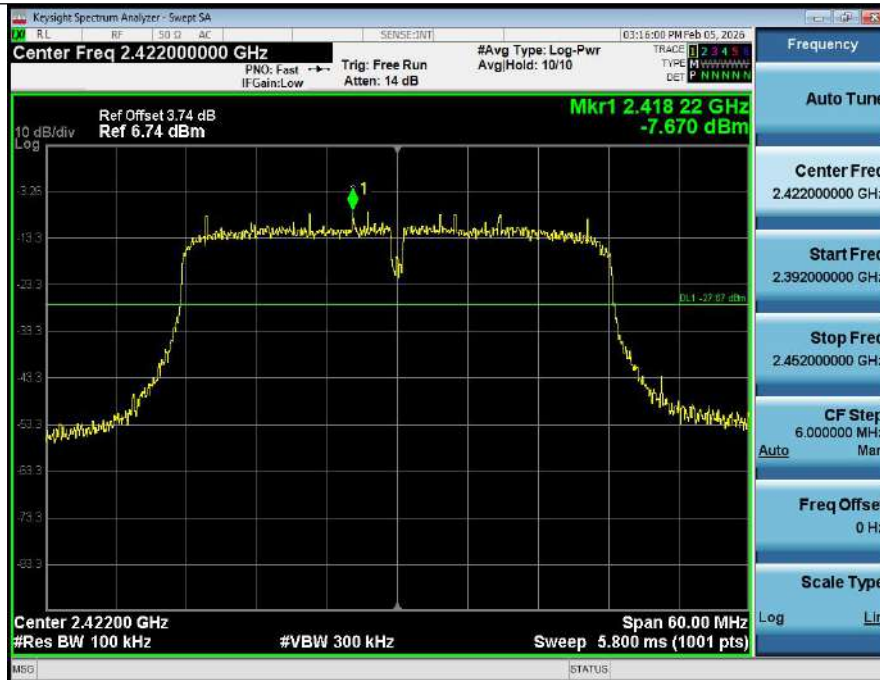
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



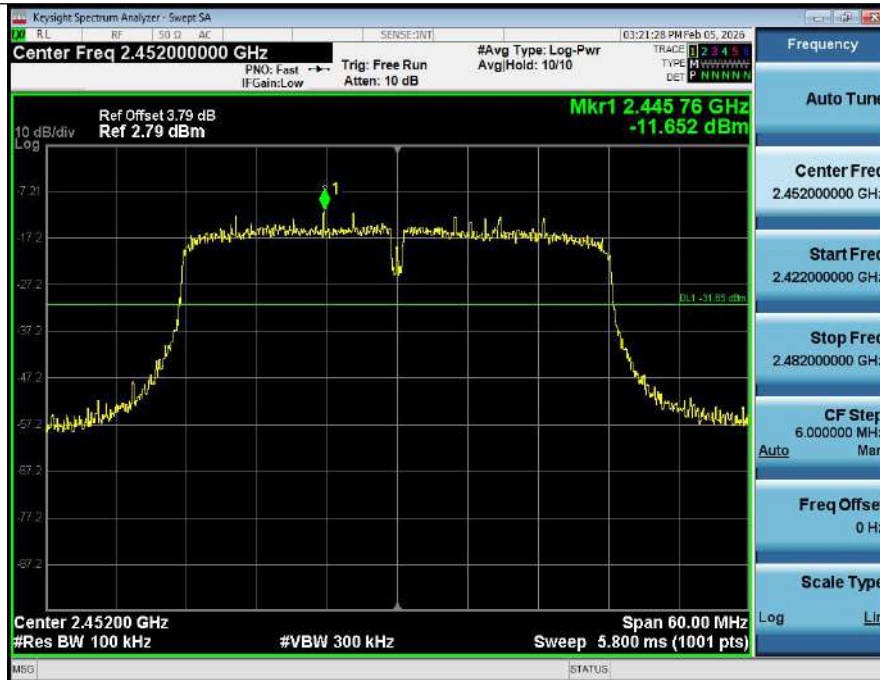
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452

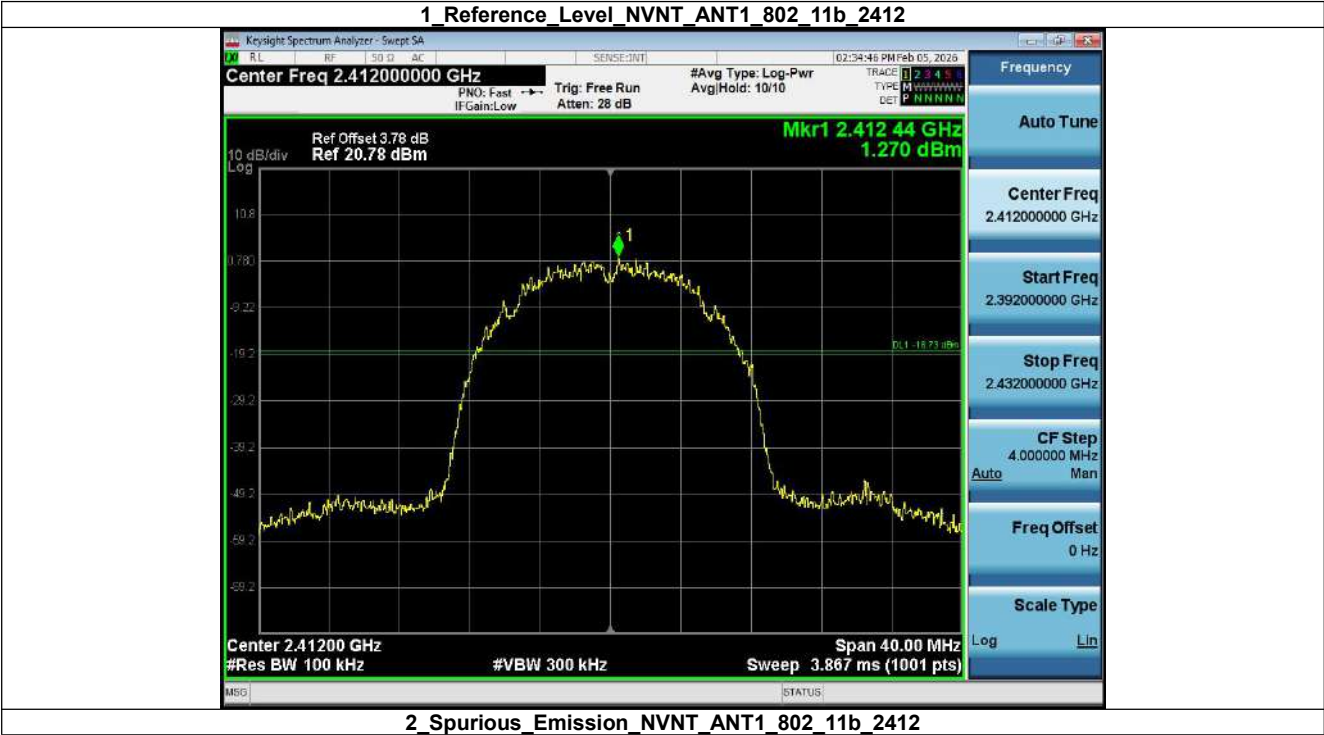


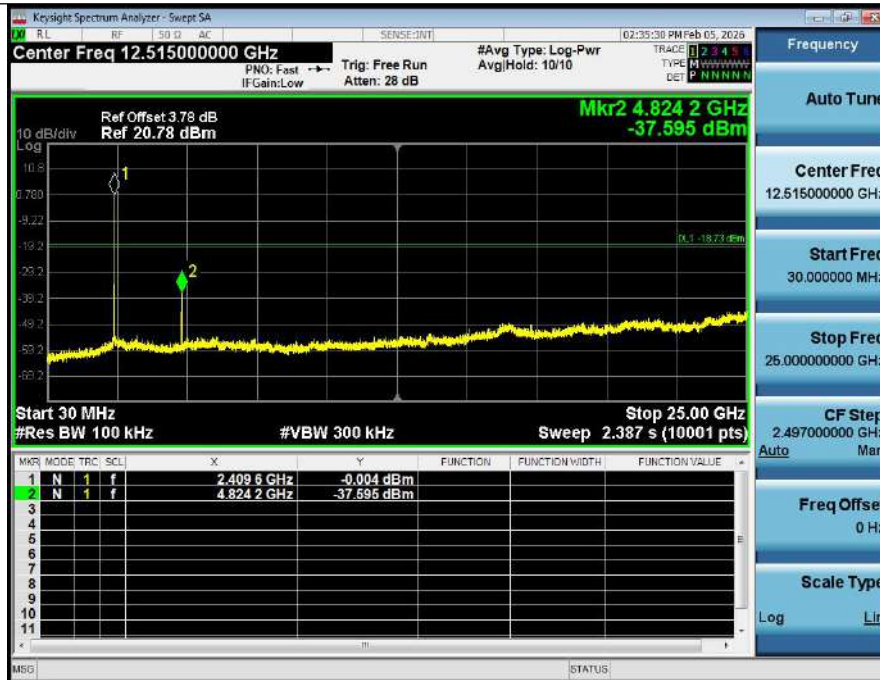
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



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	1.270	-37.595	-18.730	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	0.808	-43.636	-19.192	Pass
NVNT	ANT1	802.11b	2462.00	4924.120	-5.158	-48.713	-25.158	Pass
NVNT	ANT1	802.11g	2412.00	4824.240	-2.618	-41.879	-22.618	Pass
NVNT	ANT1	802.11g	2437.00	903.950	-4.913	-48.746	-24.913	Pass
NVNT	ANT1	802.11g	2462.00	911.441	-9.307	-48.964	-29.307	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	4821.743	-3.425	-45.236	-23.425	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24932.581	-5.937	-52.430	-25.937	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	3283.591	-10.277	-53.479	-30.277	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	4841.719	-7.670	-50.376	-27.670	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	3248.633	-8.615	-53.372	-28.615	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	3268.609	-11.652	-53.384	-31.652	Pass

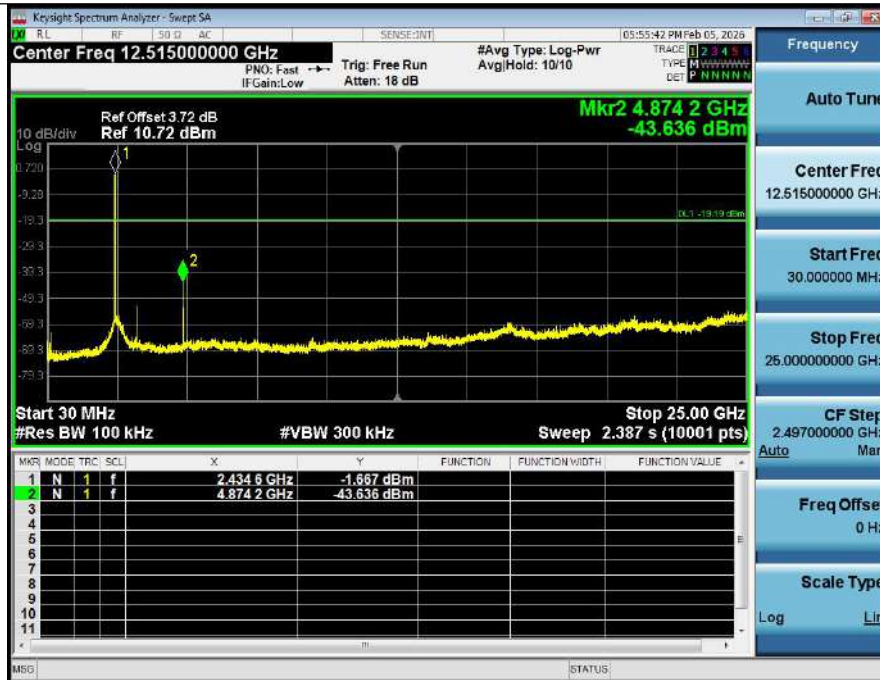




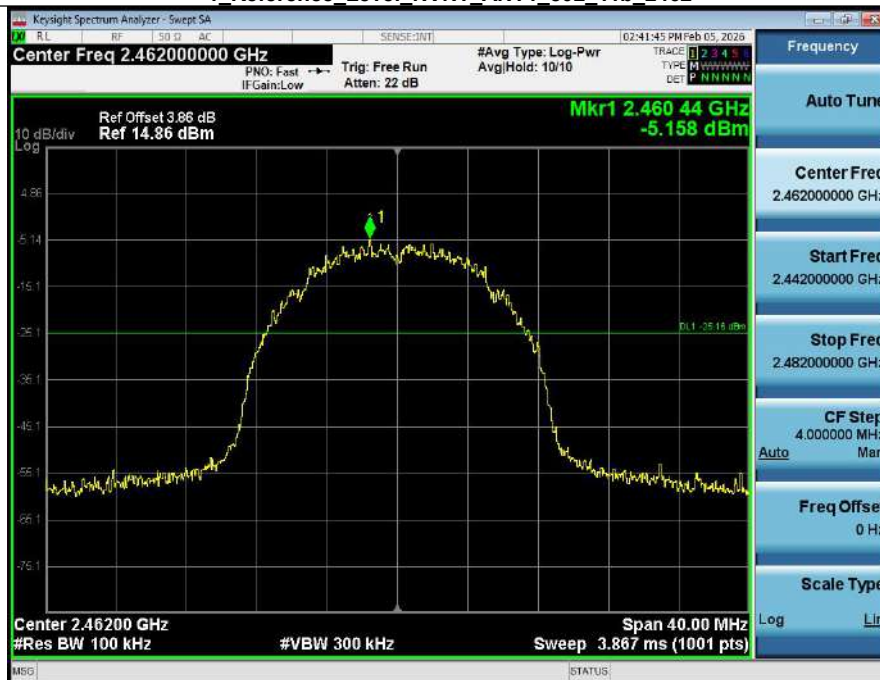
1 Reference Level NVNT_ANT1_802_11b_2437



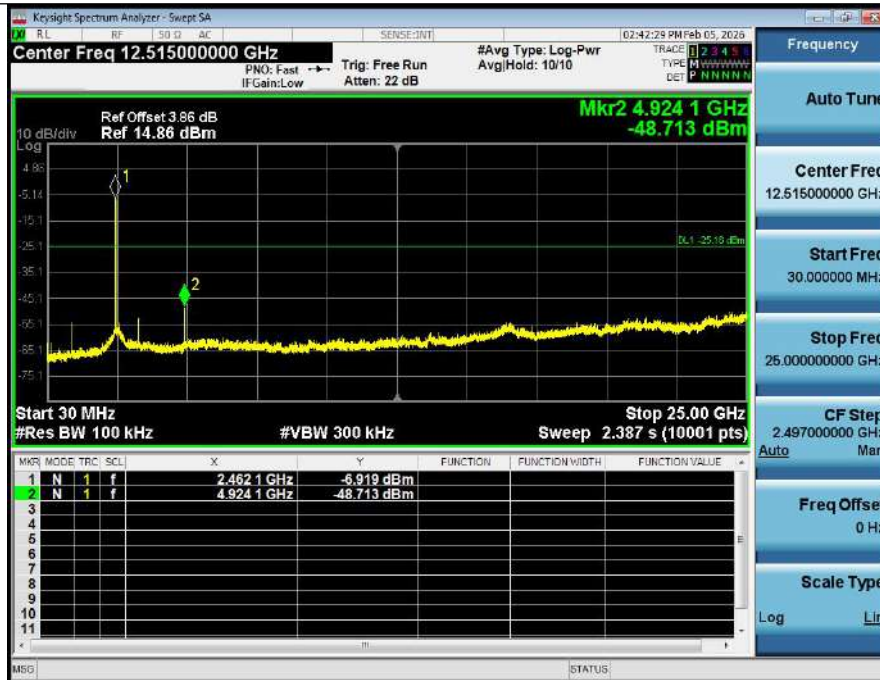
2 Spurious Emission_NVNT_ANT1_802_11b_2437



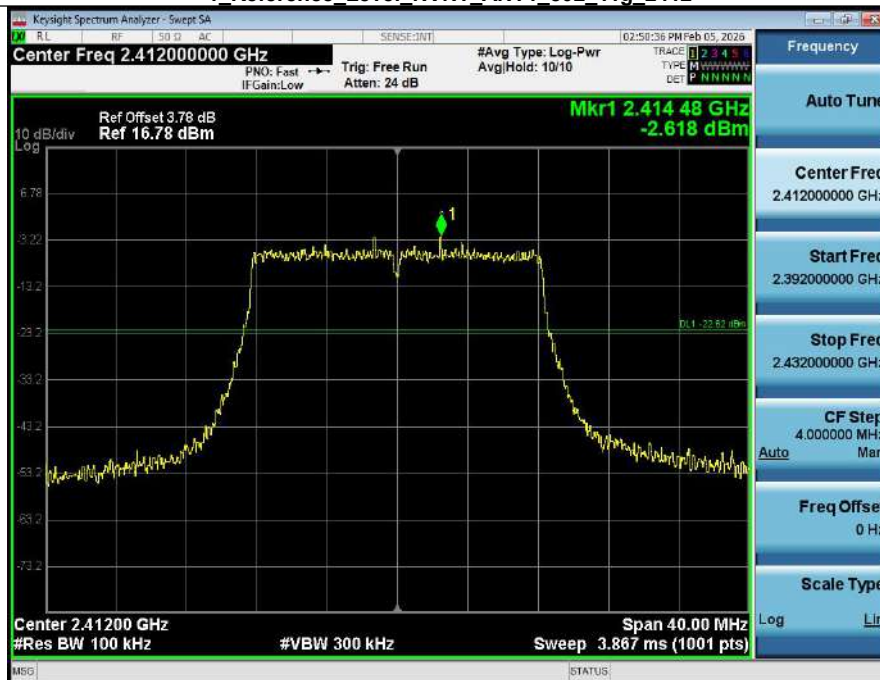
1 Reference Level NVNT_ANT1_802_11b_2462



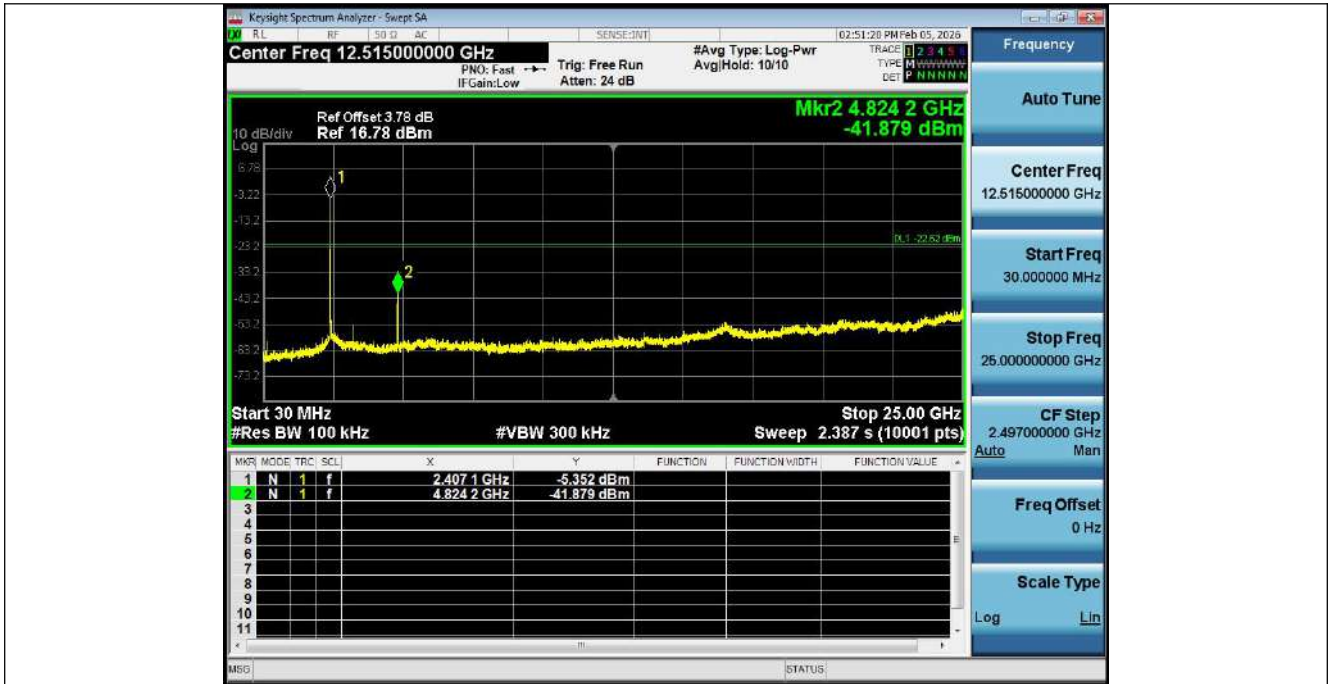
2 Spurious Emission NVNT_ANT1_802_11b_2462



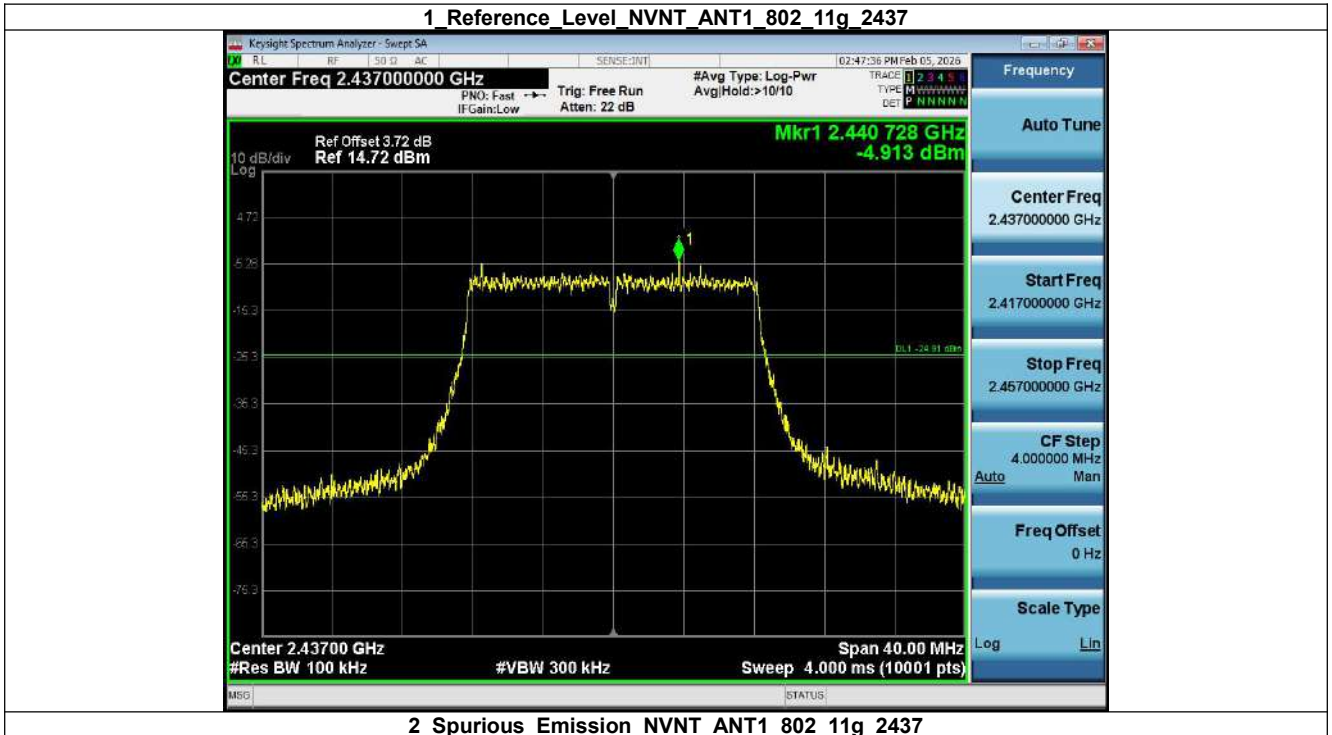
1 Reference Level NVNT_ANT1_802_11g_2412



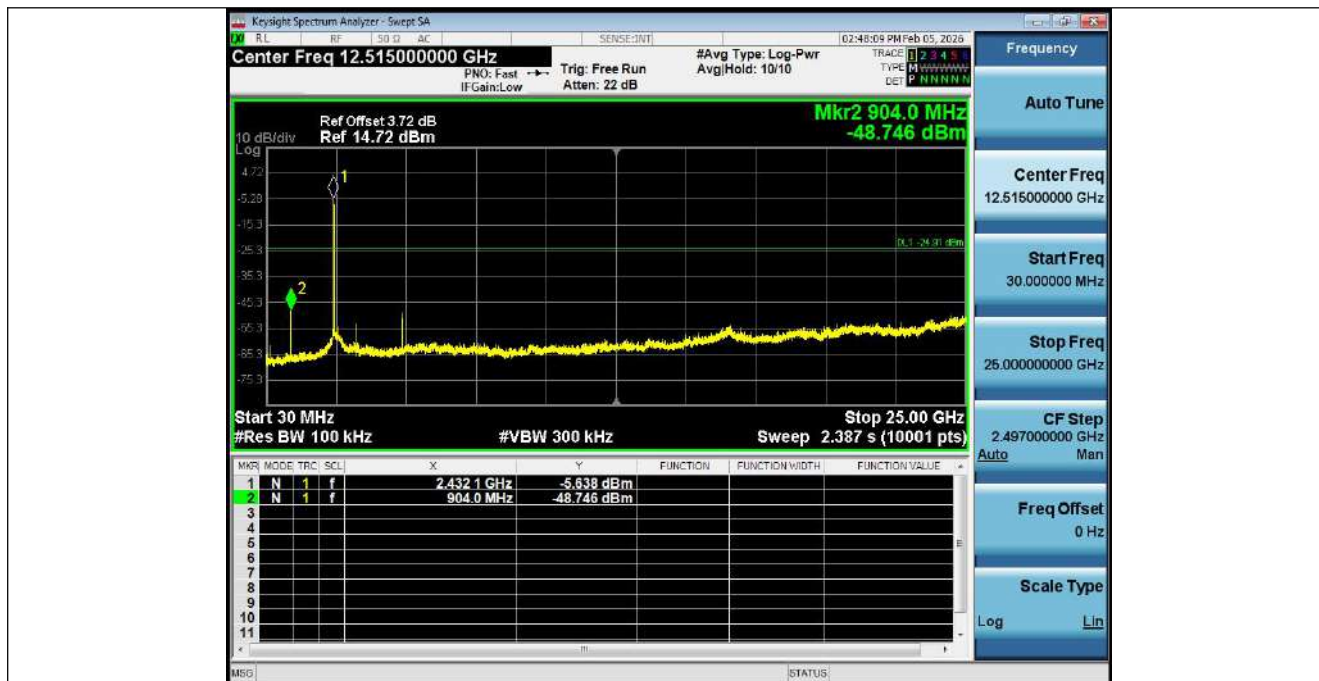
2 Spurious Emission NVNT_ANT1_802_11g_2412



1 Reference Level NVNT ANT1 802 11g 2437



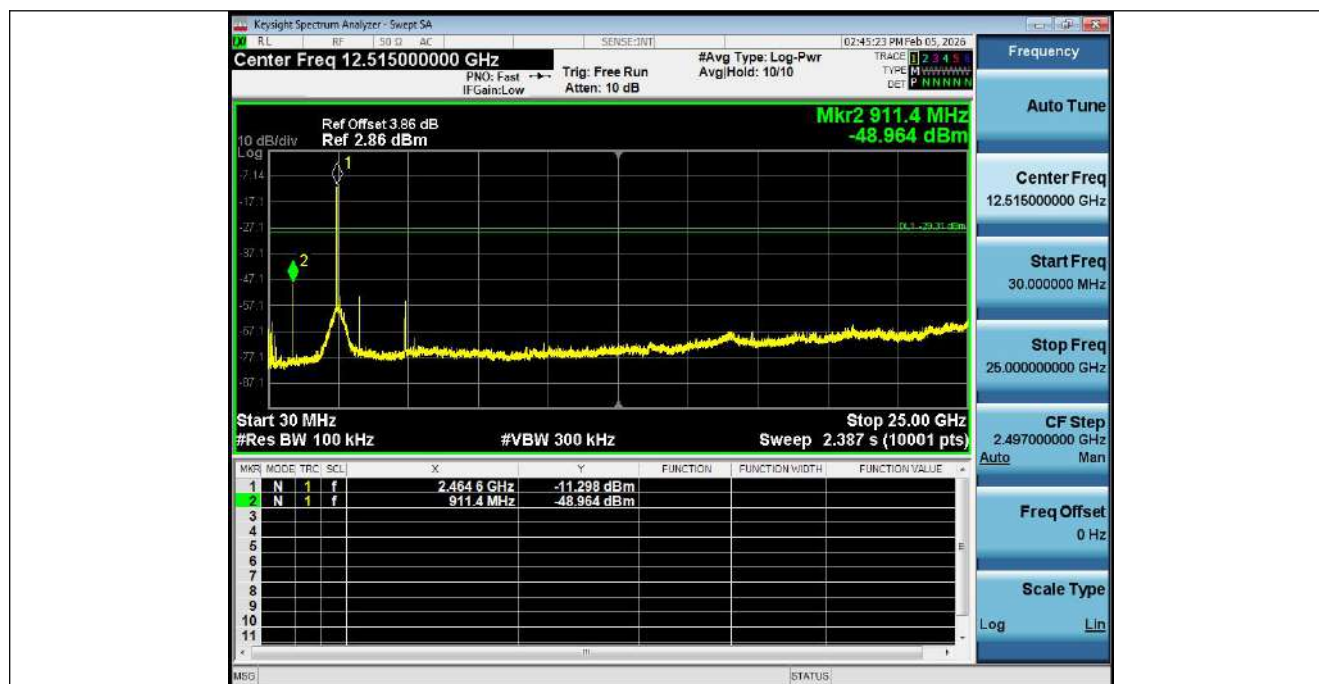
2 Spurious Emission NVNT ANT1 802 11g 2437



1 Reference Level NVNT_ANT1_802_11g_2462



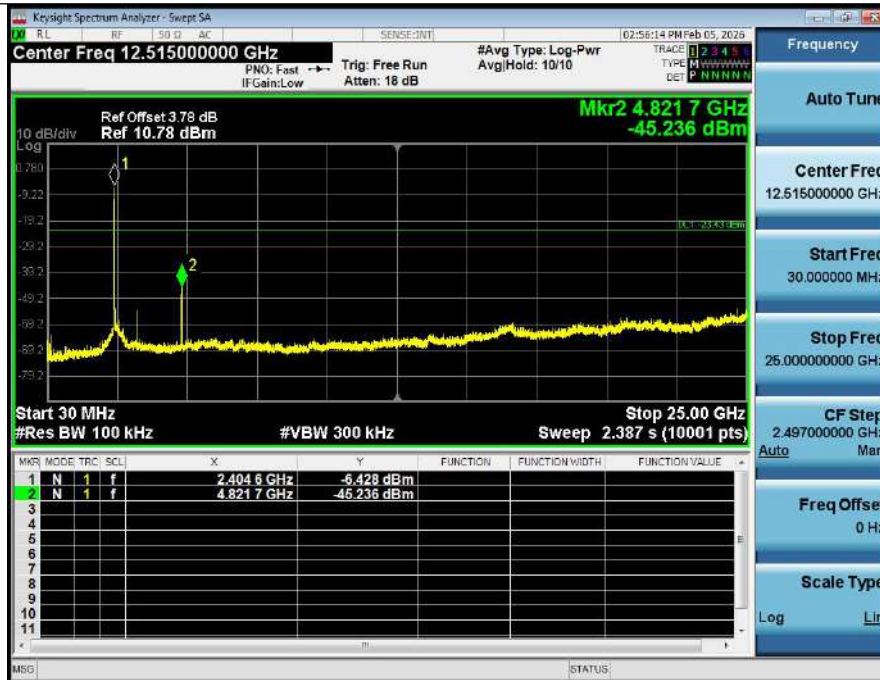
2 Spurious Emission NVNT_ANT1_802_11g_2462



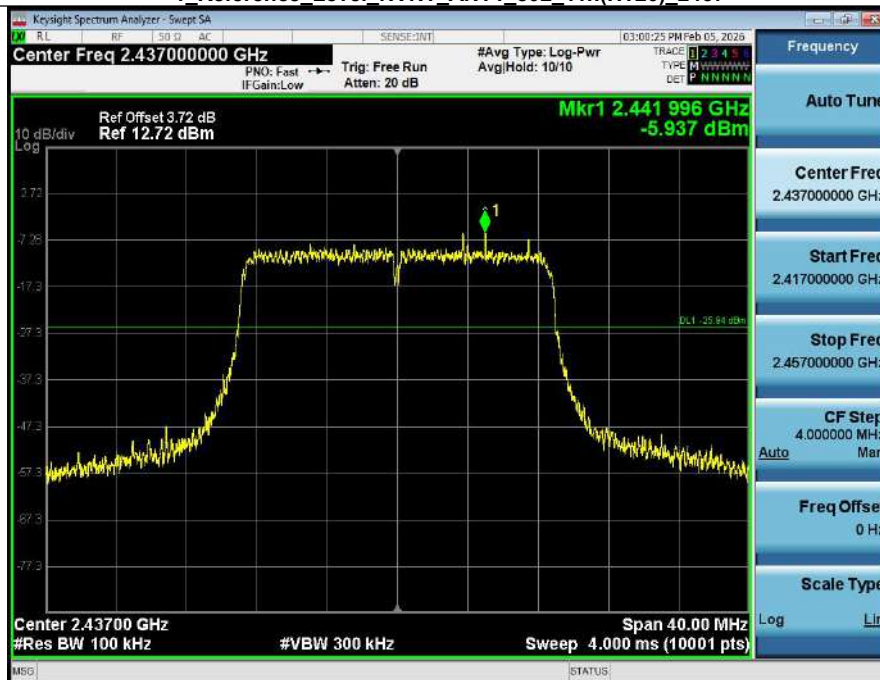
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



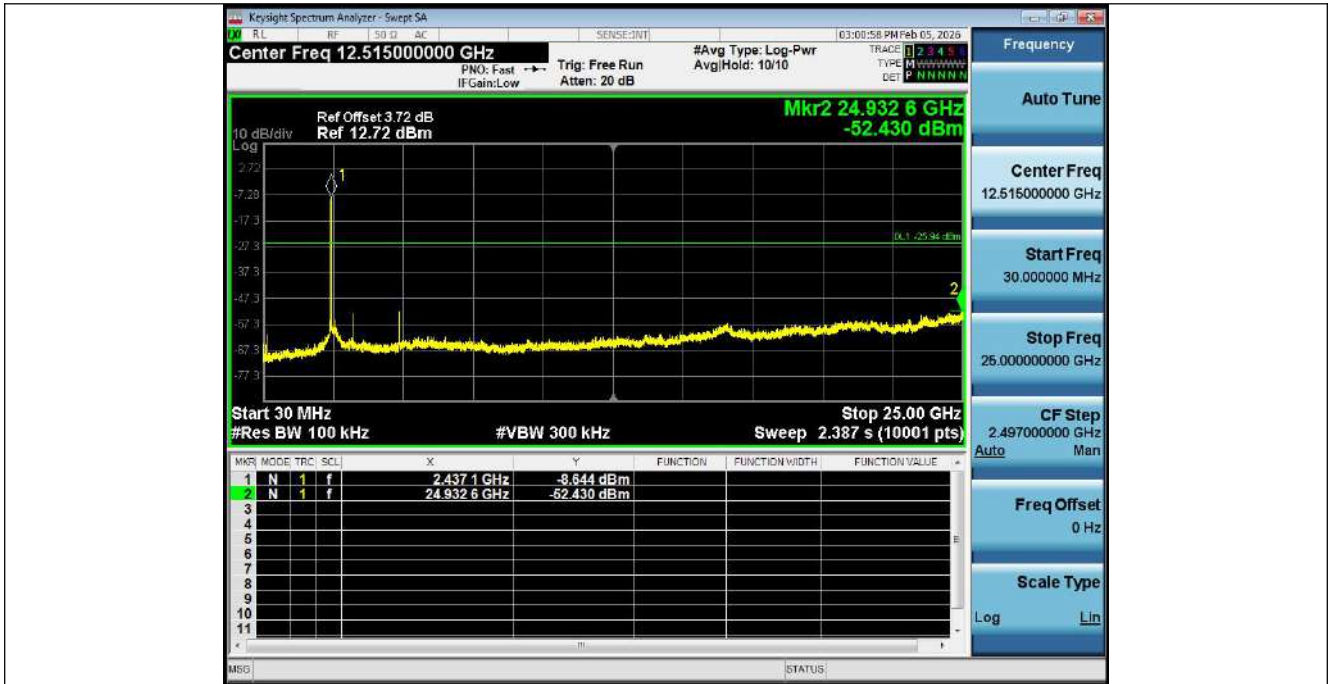
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412



1 Reference Level NVNT ANT1 802 11n(HT20) 2437



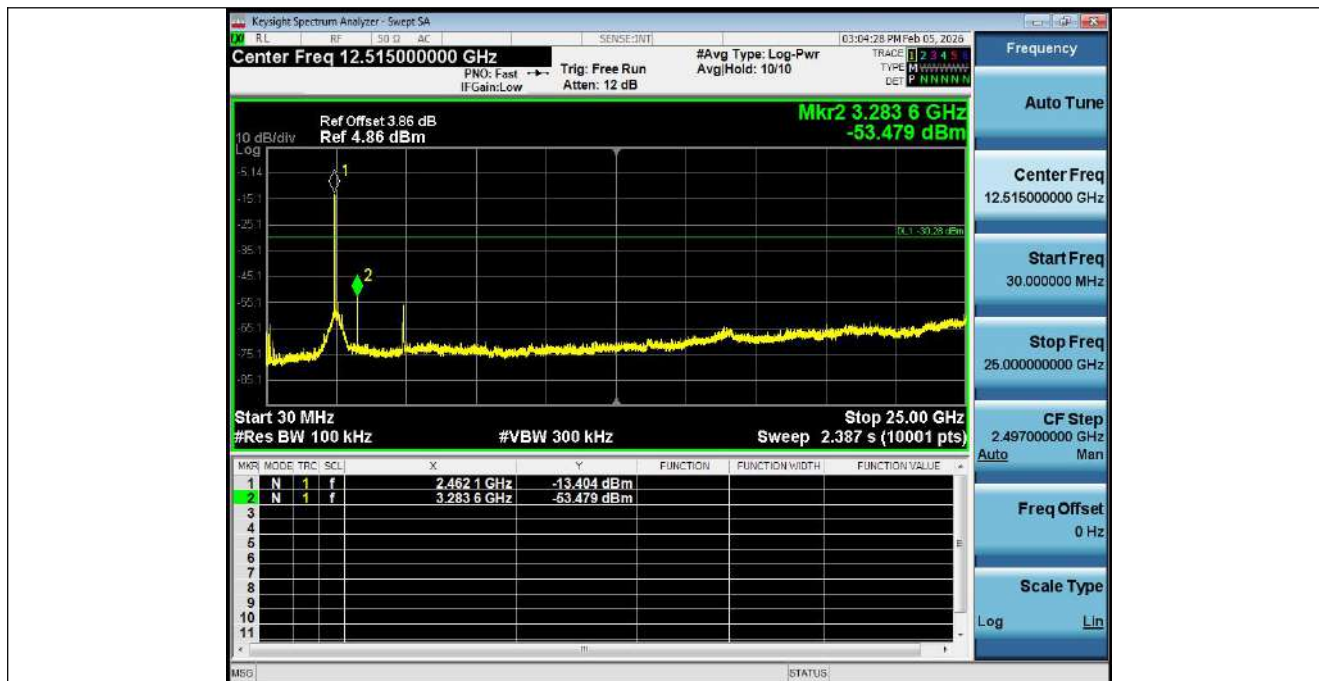
2 Spurious Emission NVNT ANT1 802 11n(HT20) 2437



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



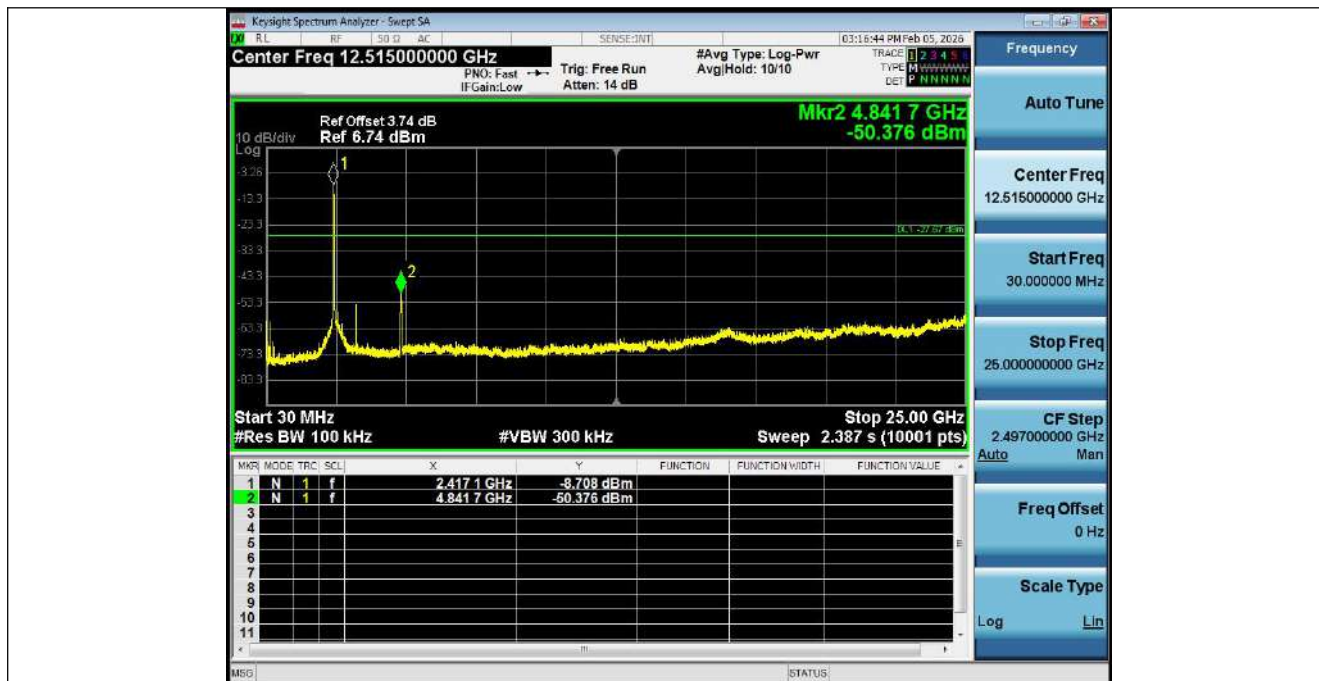
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



1 Reference Level NVNT ANT1 802 11n(HT40) 2422



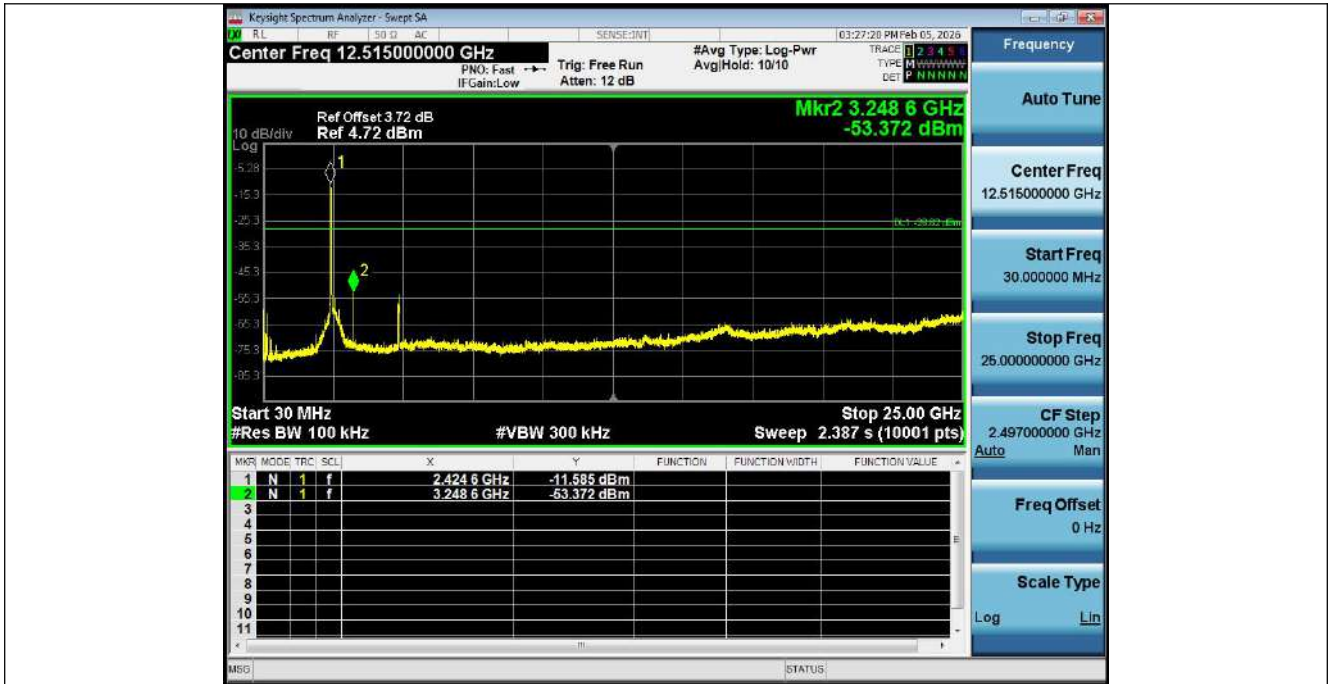
2 Spurious Emission NVNT ANT1 802 11n(HT40) 2422



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

