

Table of Contents

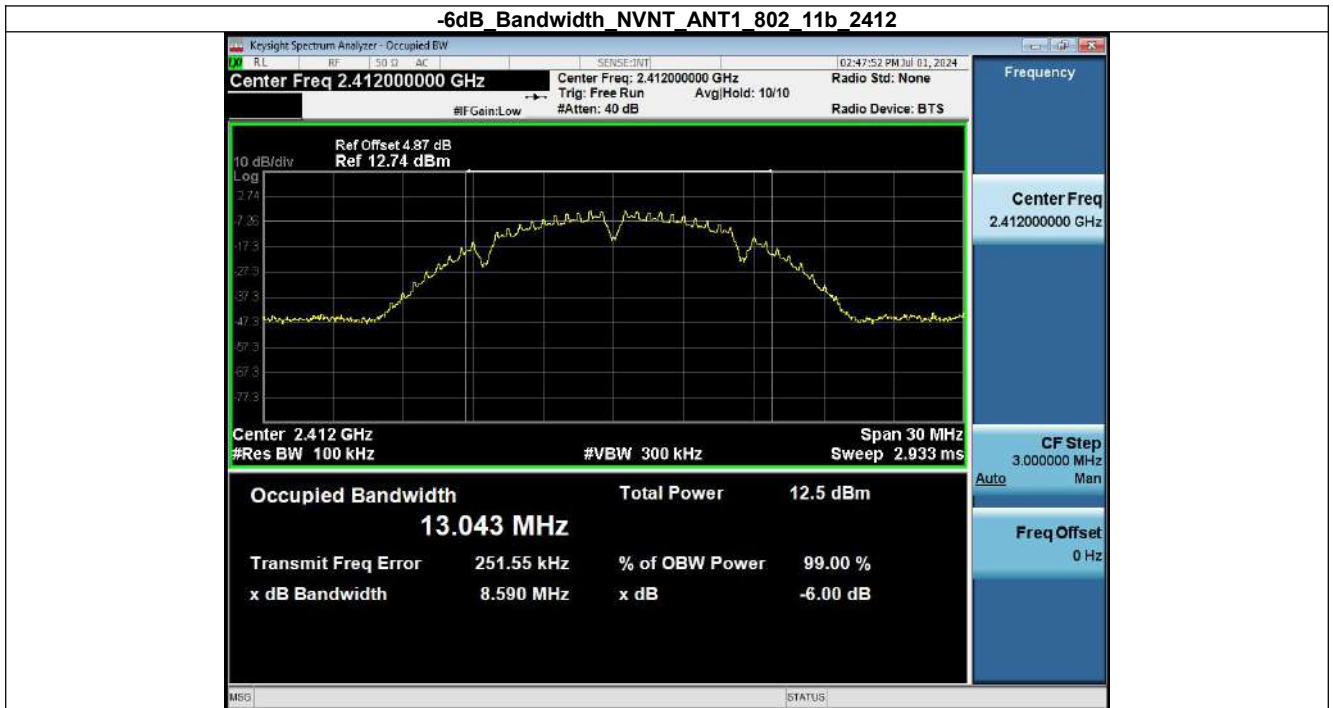
1. -6dB Bandwidth	2
2. 99% Occupied Bandwidth	9
3. Duty Cycle	16
4. MAX. Output Power	23
5. Power Spectral Density	24
6. Bandedge	31
7. Spurious Emission	39

FCC ID WIFI2.4

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	8.59	500	Pass
NVNT	ANT1	802.11b	2437.00	8.08	500	Pass
NVNT	ANT1	802.11b	2462.00	8.09	500	Pass
NVNT	ANT1	802.11g	2412.00	16.46	500	Pass
NVNT	ANT1	802.11g	2437.00	15.35	500	Pass
NVNT	ANT1	802.11g	2462.00	16.19	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.75	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	14.73	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.49	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	25.17	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24.34	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.52	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

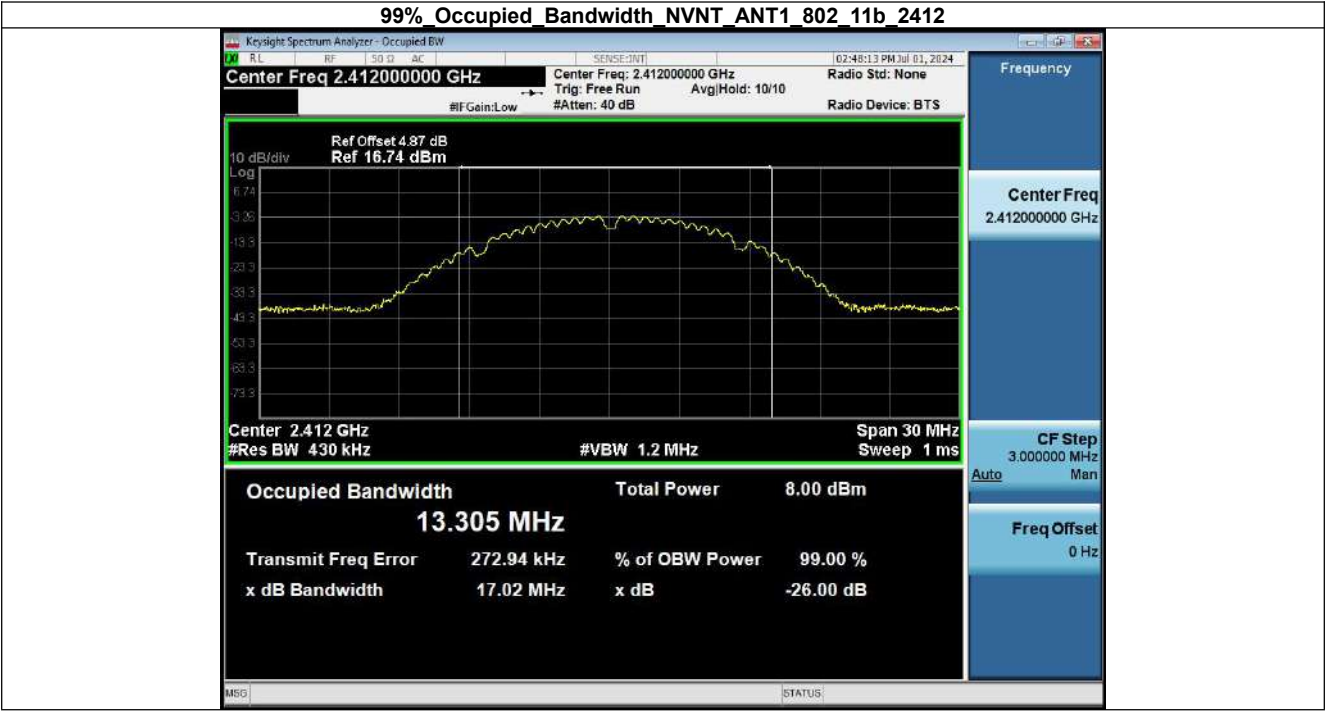


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	13.305
NVNT	ANT1	802.11b	2437.00	12.683
NVNT	ANT1	802.11b	2462.00	13.155
NVNT	ANT1	802.11g	2412.00	17.406
NVNT	ANT1	802.11g	2437.00	16.944
NVNT	ANT1	802.11g	2462.00	17.286
NVNT	ANT1	802.11n(HT20)	2412.00	18.213
NVNT	ANT1	802.11n(HT20)	2437.00	17.895
NVNT	ANT1	802.11n(HT20)	2462.00	18.134
NVNT	ANT1	802.11n(HT40)	2422.00	35.675
NVNT	ANT1	802.11n(HT40)	2437.00	35.636
NVNT	ANT1	802.11n(HT40)	2452.00	37.298



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

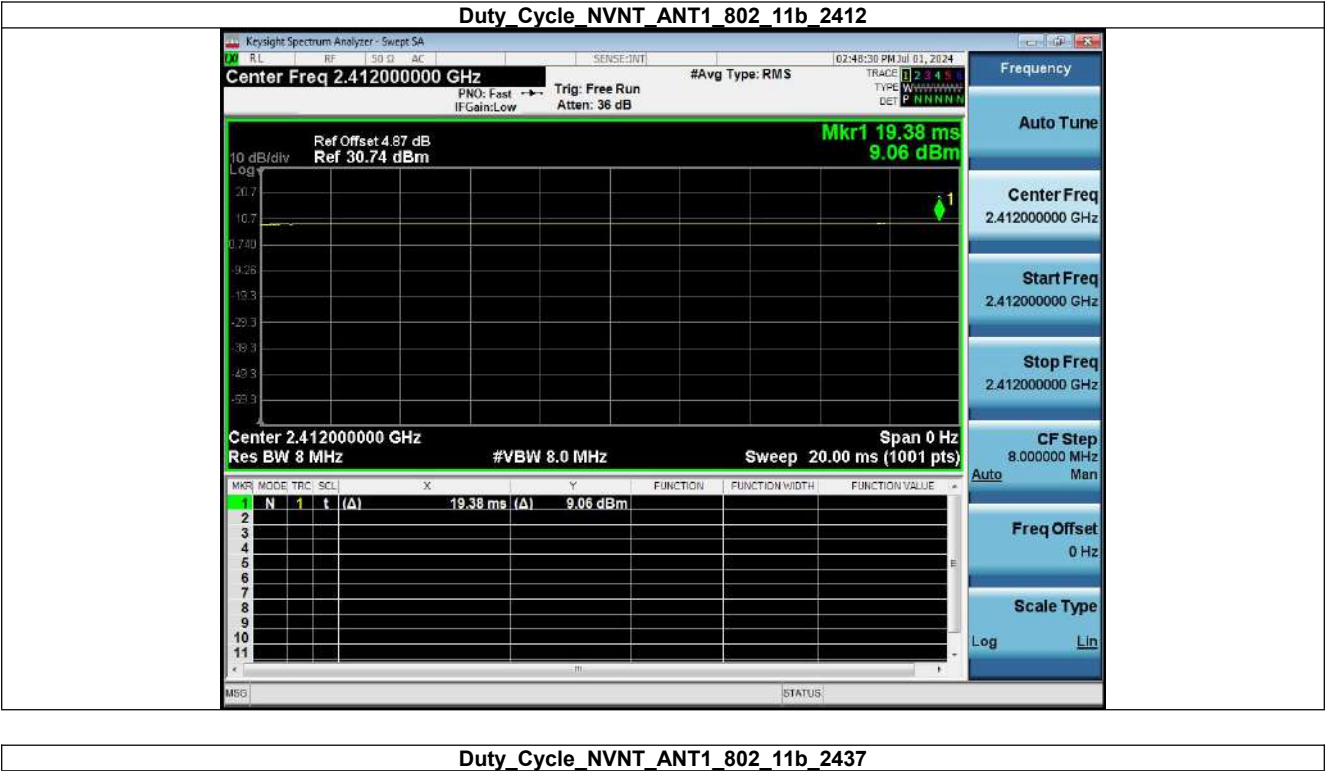


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



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	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



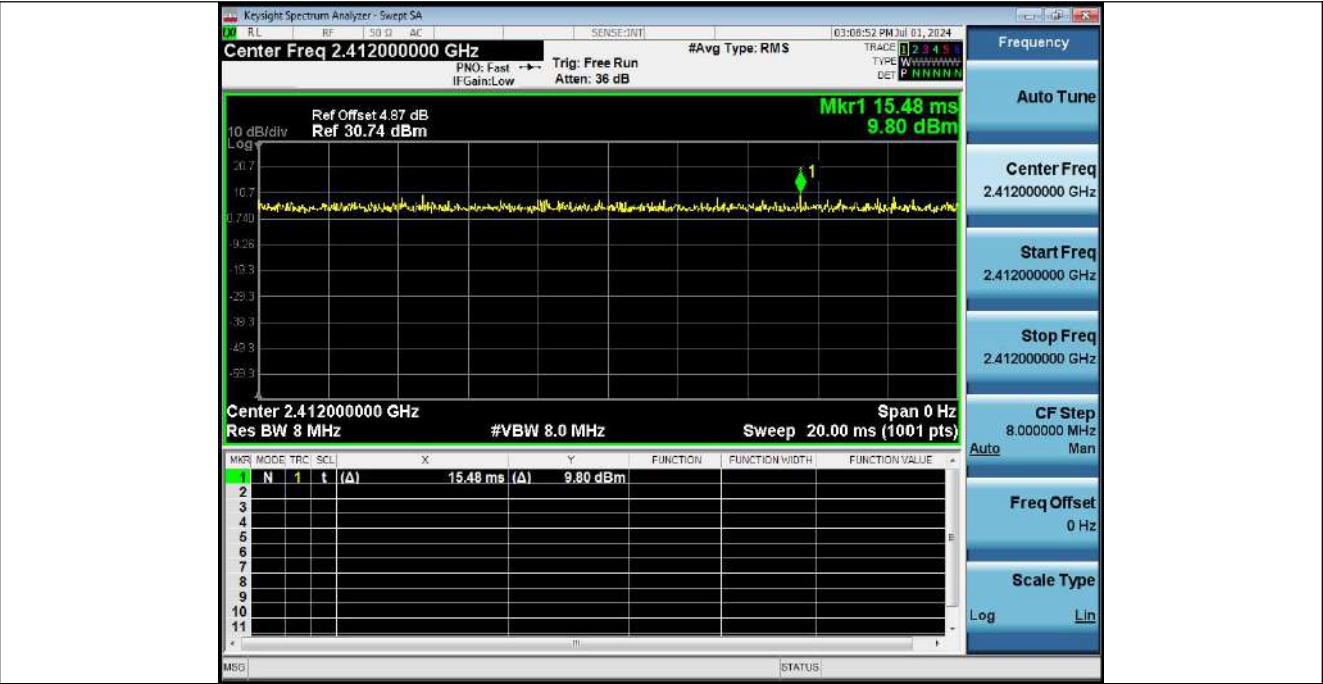
Duty Cycle NVNT ANT1 802 11b 2437



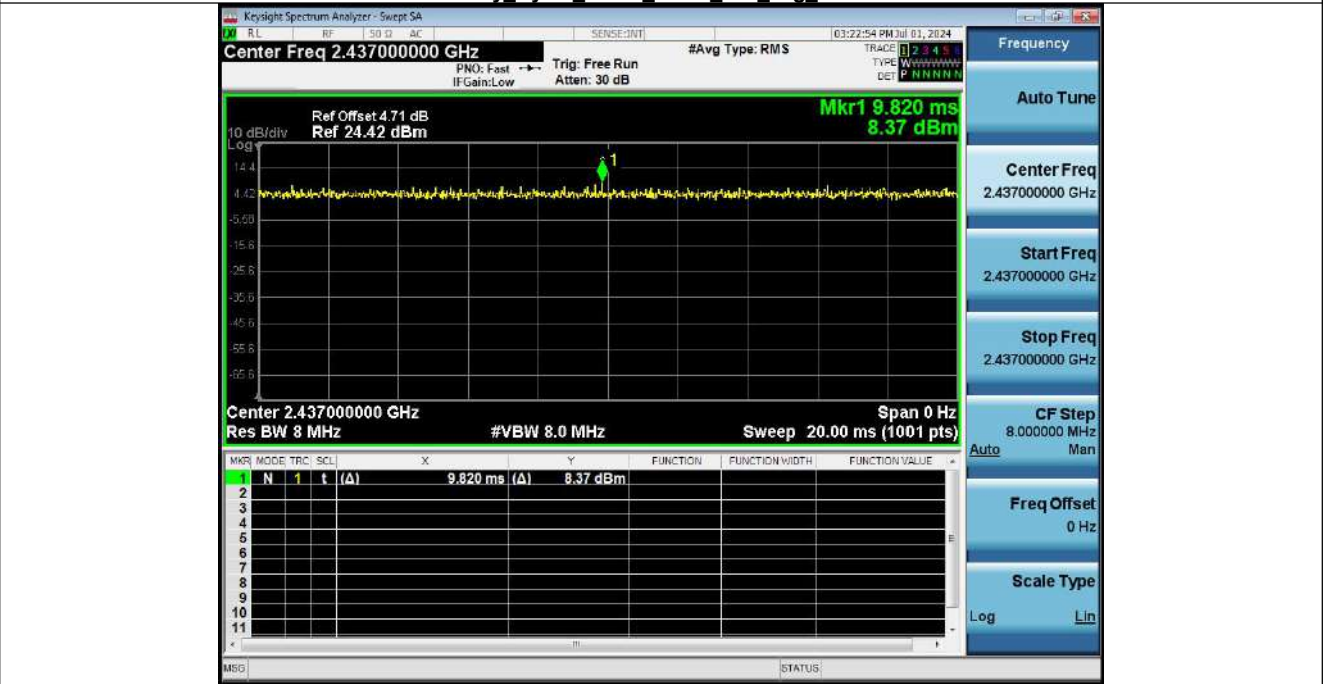
Duty_Cycle_NVNT_ANT1_802_11b_2462



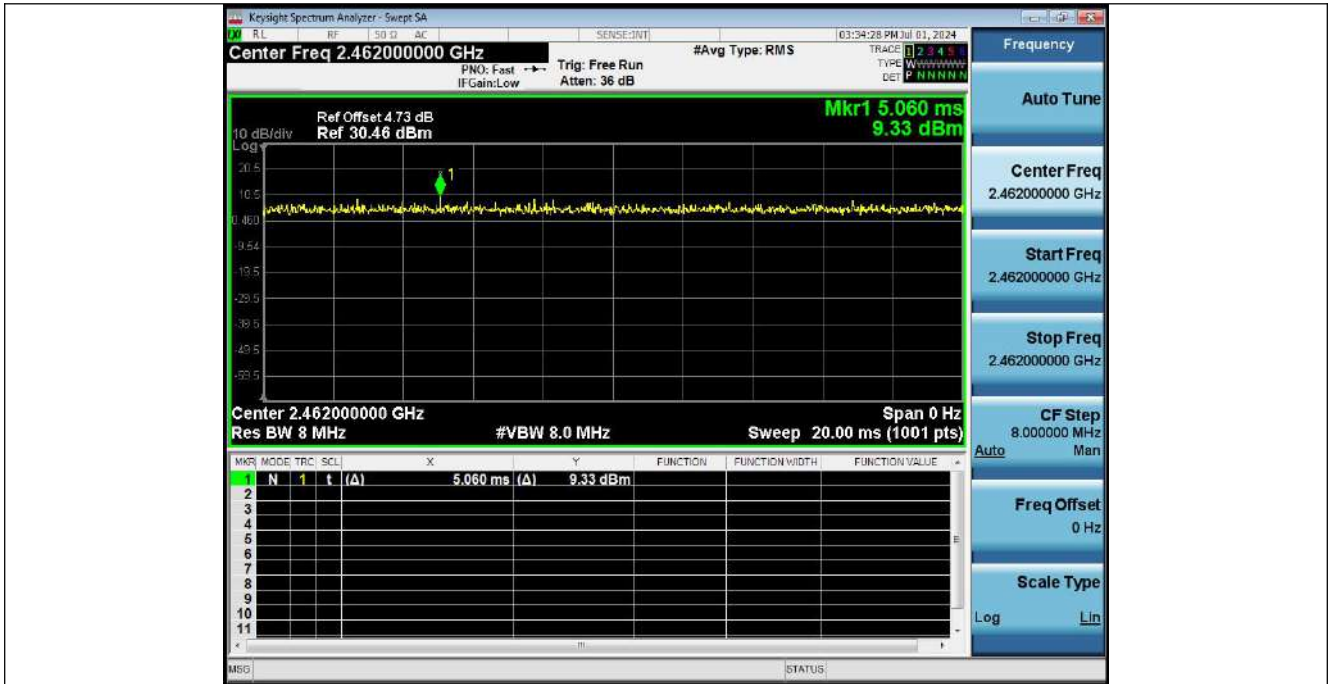
Duty_Cycle_NVNT_ANT1_802_11g_2412



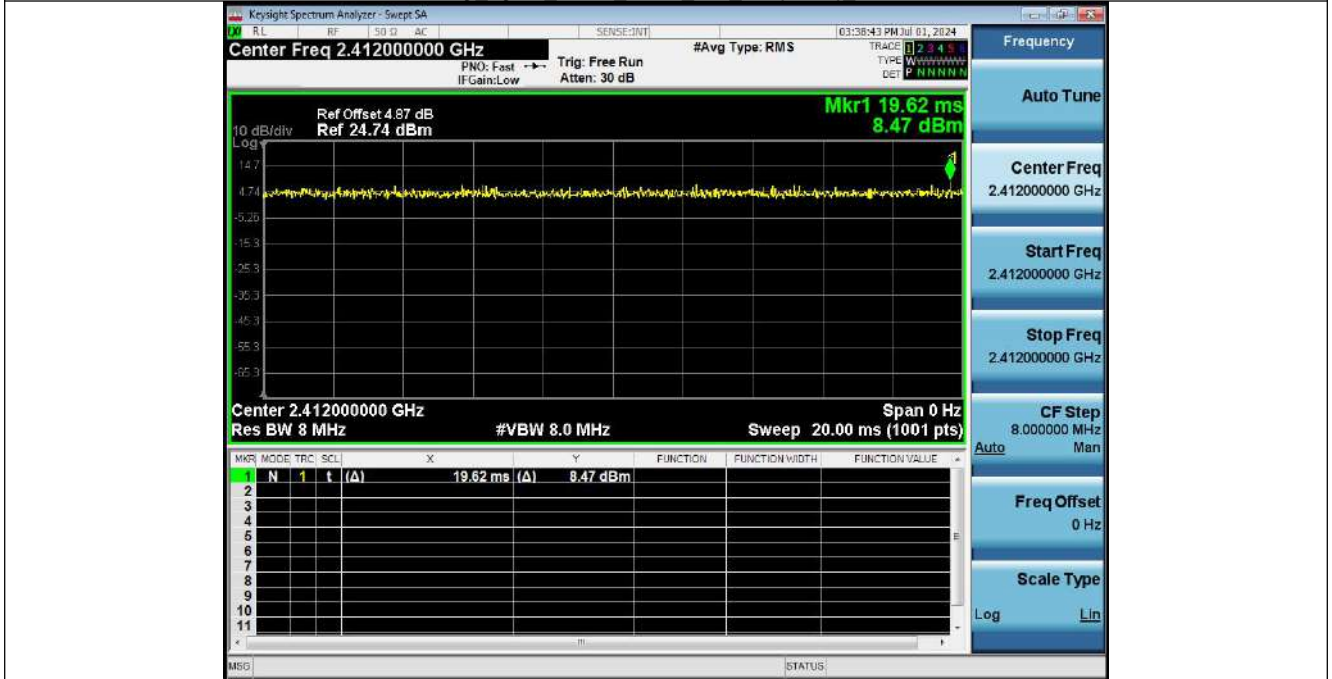
Duty_Cycle_NVNT_ANT1_802_11g_2437



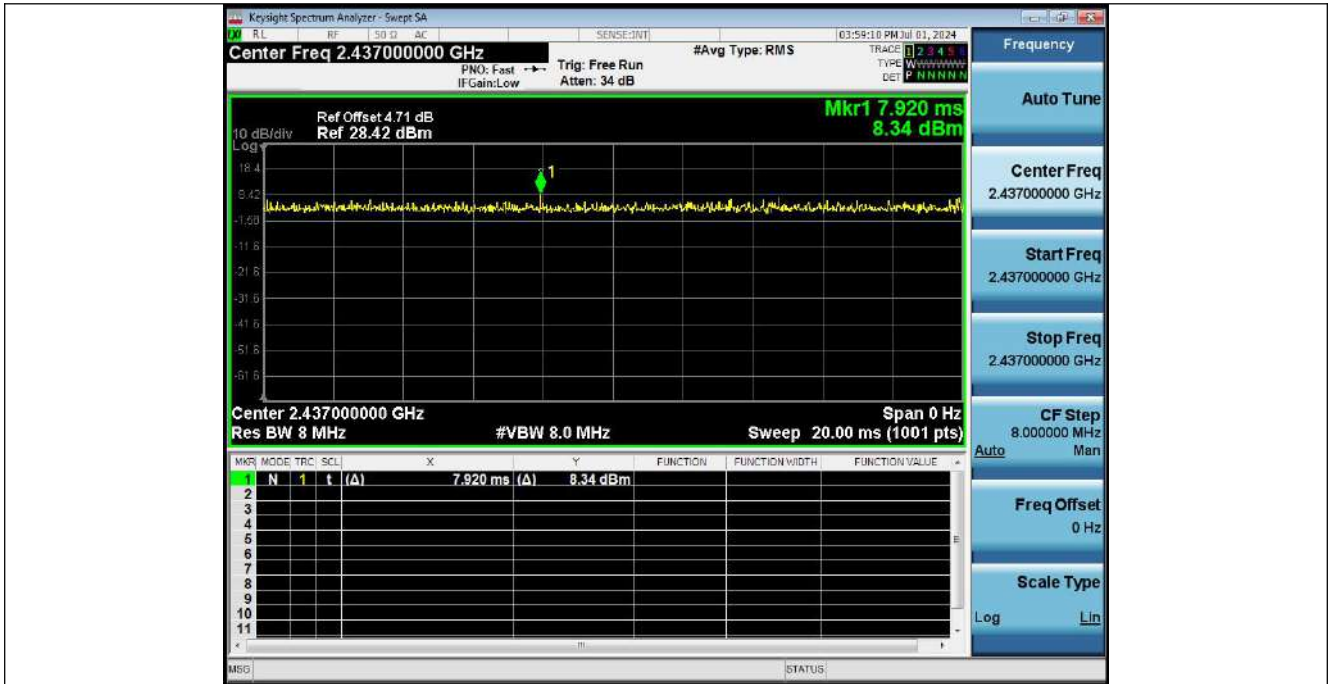
Duty_Cycle_NVNT_ANT1_802_11g_2462



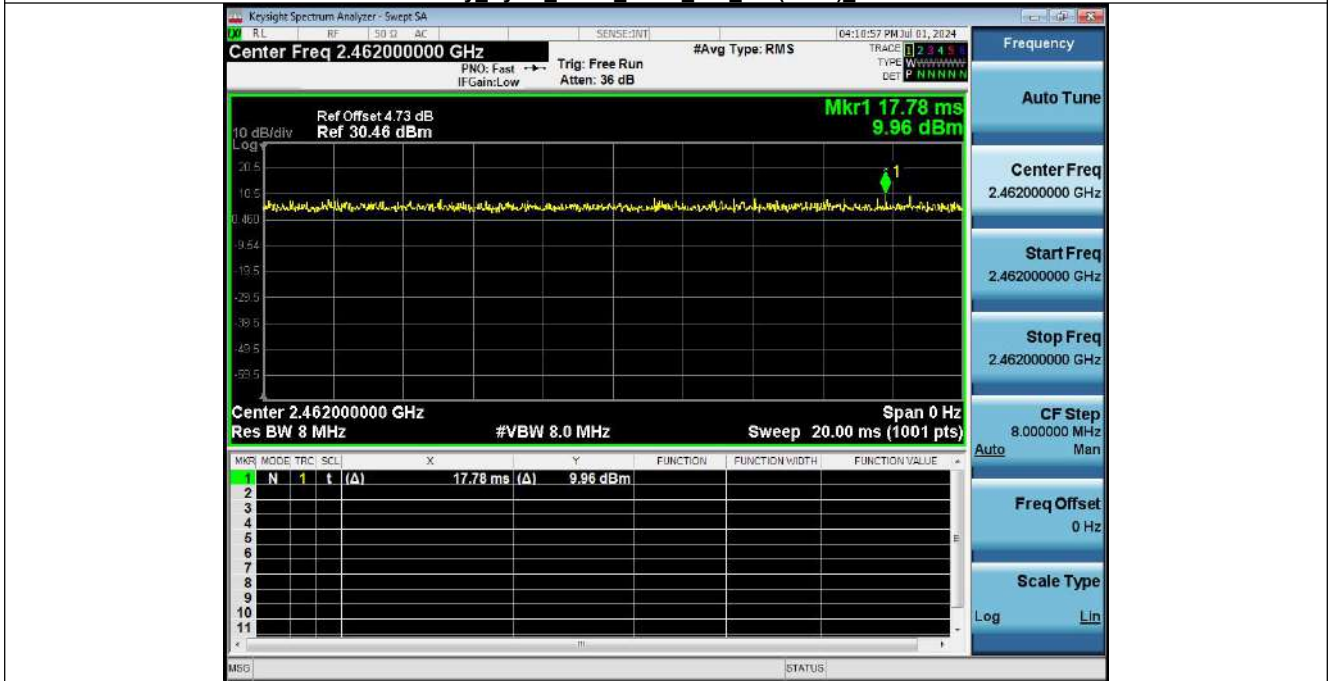
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



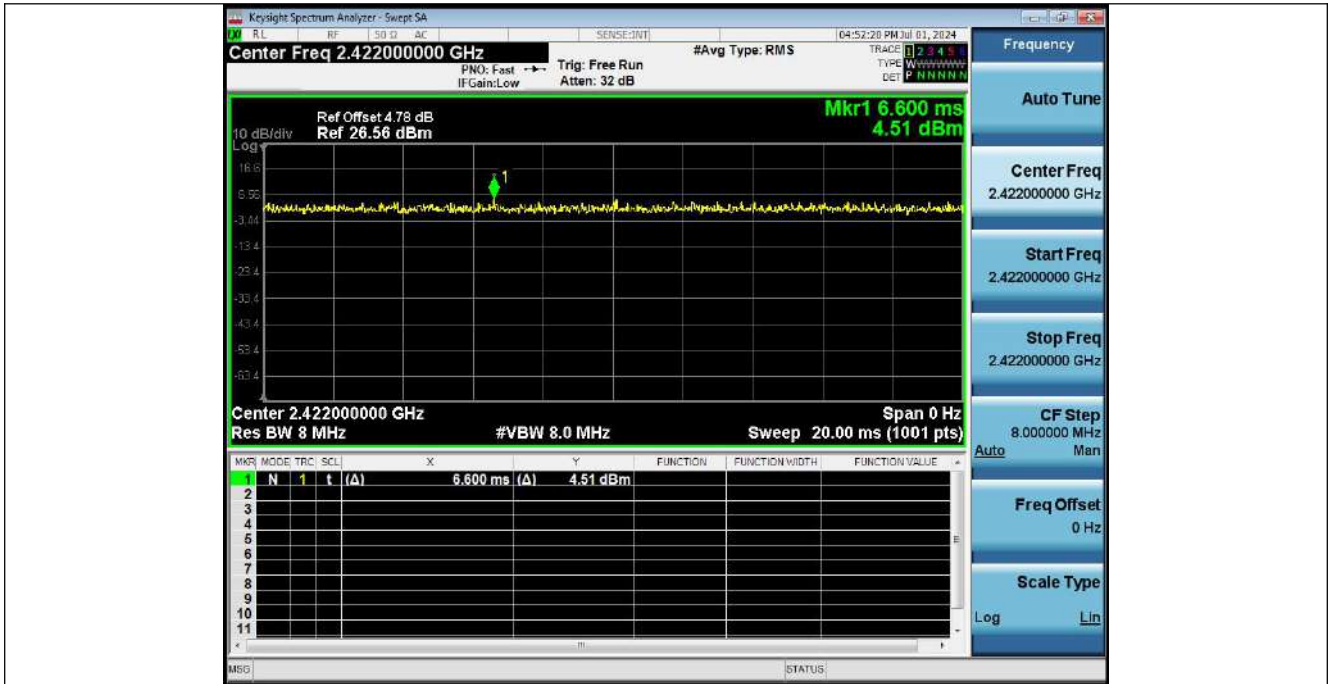
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



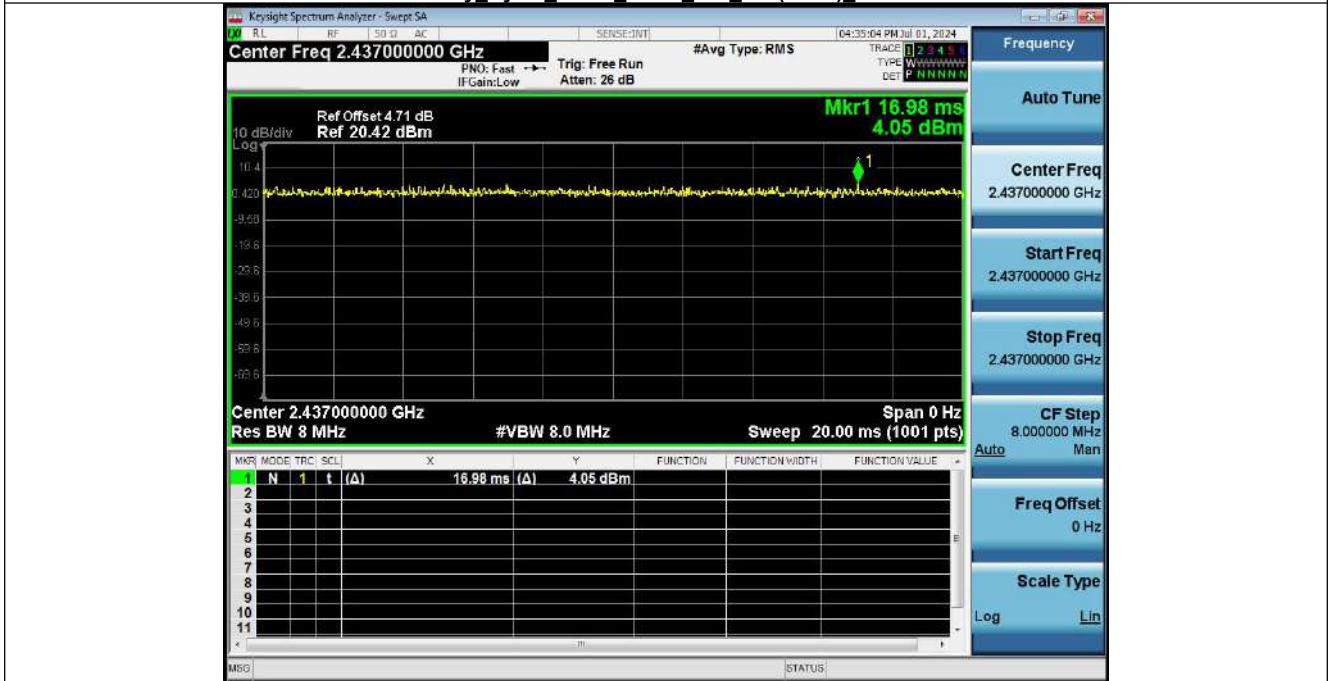
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



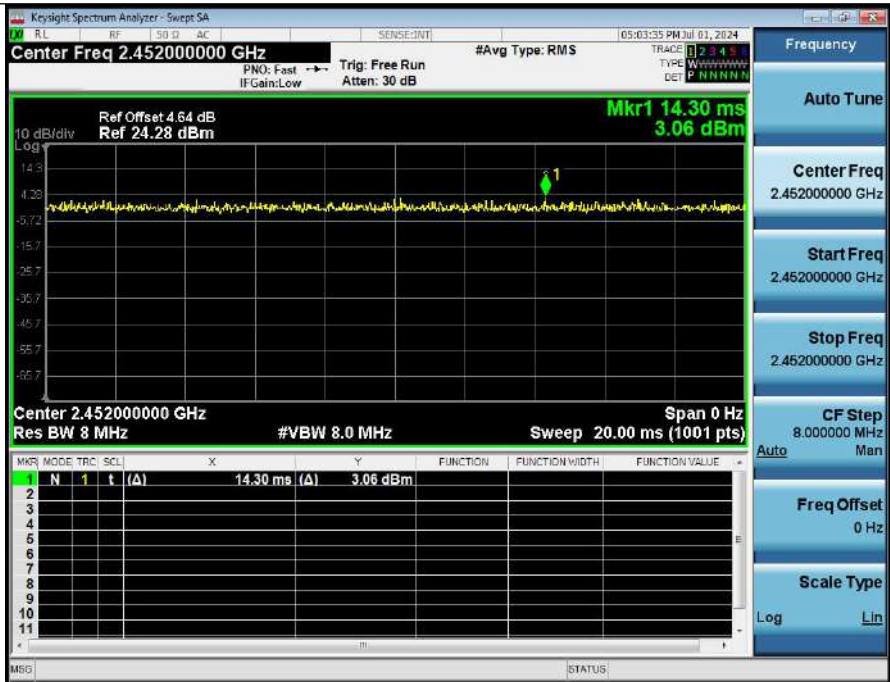
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	8.00	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	7.28	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	7.82	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	8.19	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	7.32	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	7.91	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	7.57	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	6.40	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	8.56	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	6.48	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	6.69	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	6.69	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-7.29	N/A	-10.00	-17.29	8	Pass
NVNT	ANT1	802.11b	2437.00	-7.10	N/A	-10.00	-17.10	8	Pass
NVNT	ANT1	802.11b	2462.00	-6.25	N/A	-10.00	-16.25	8	Pass
NVNT	ANT1	802.11g	2412.00	-15.18	N/A	-10.00	-25.18	8	Pass
NVNT	ANT1	802.11g	2437.00	-15.44	N/A	-10.00	-25.44	8	Pass
NVNT	ANT1	802.11g	2462.00	-14.89	N/A	-10.00	-24.89	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-15.46	N/A	-10.00	-25.46	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-15.68	N/A	-10.00	-25.68	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-14.05	N/A	-10.00	-24.05	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-17.91	N/A	-10.00	-27.91	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-17.77	N/A	-10.00	-27.77	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-19.02	N/A	-10.00	-29.02	8	Pass



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



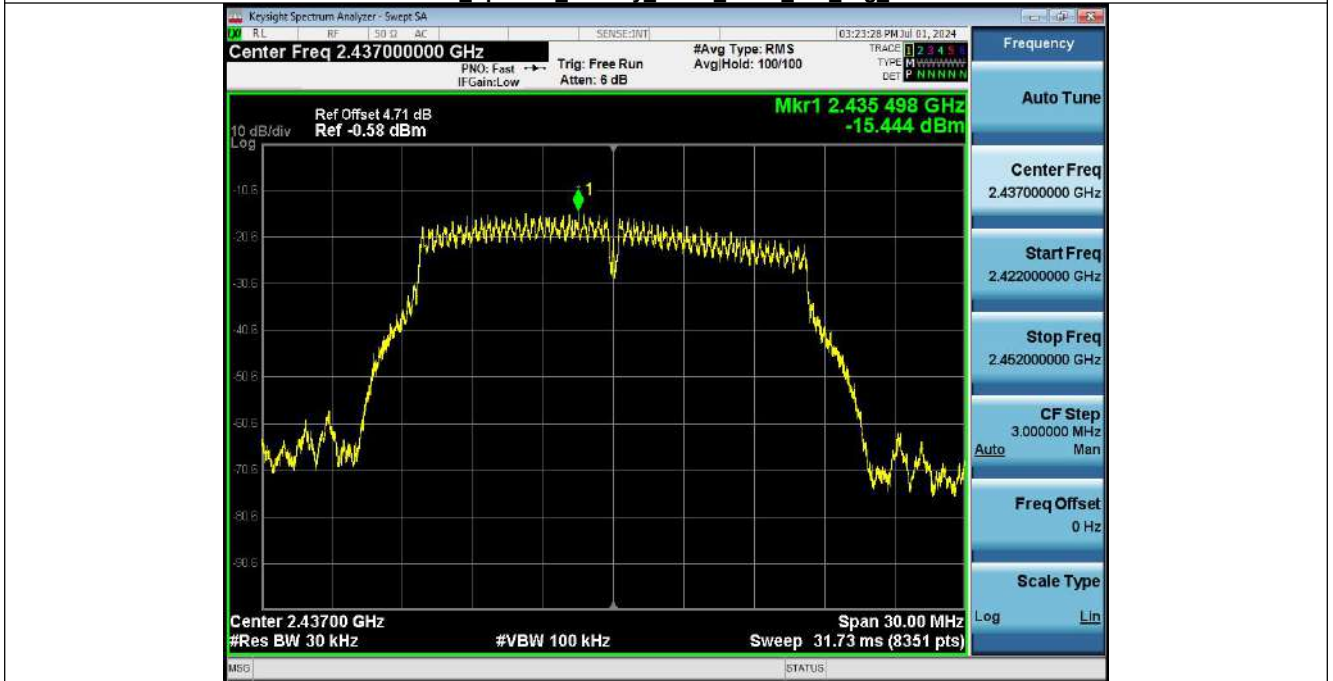
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



Power_Spectral_Density_NVNT_ANT1_802_11g_2412



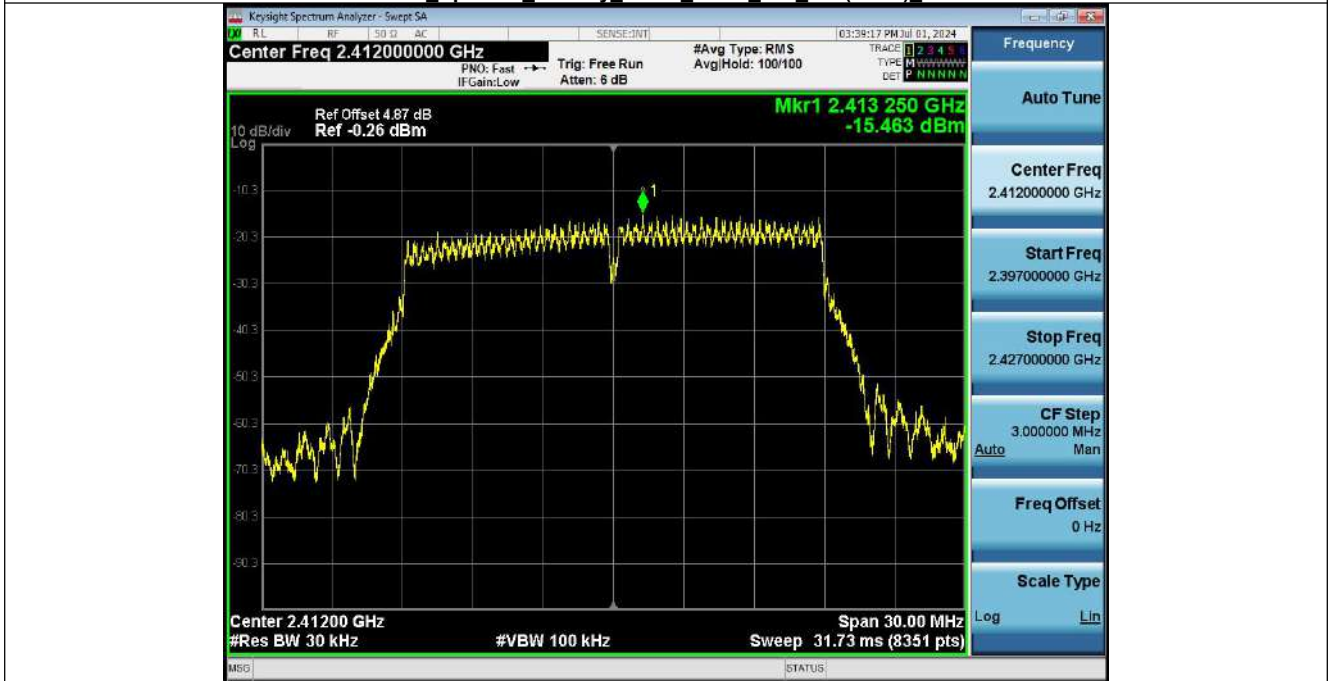
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



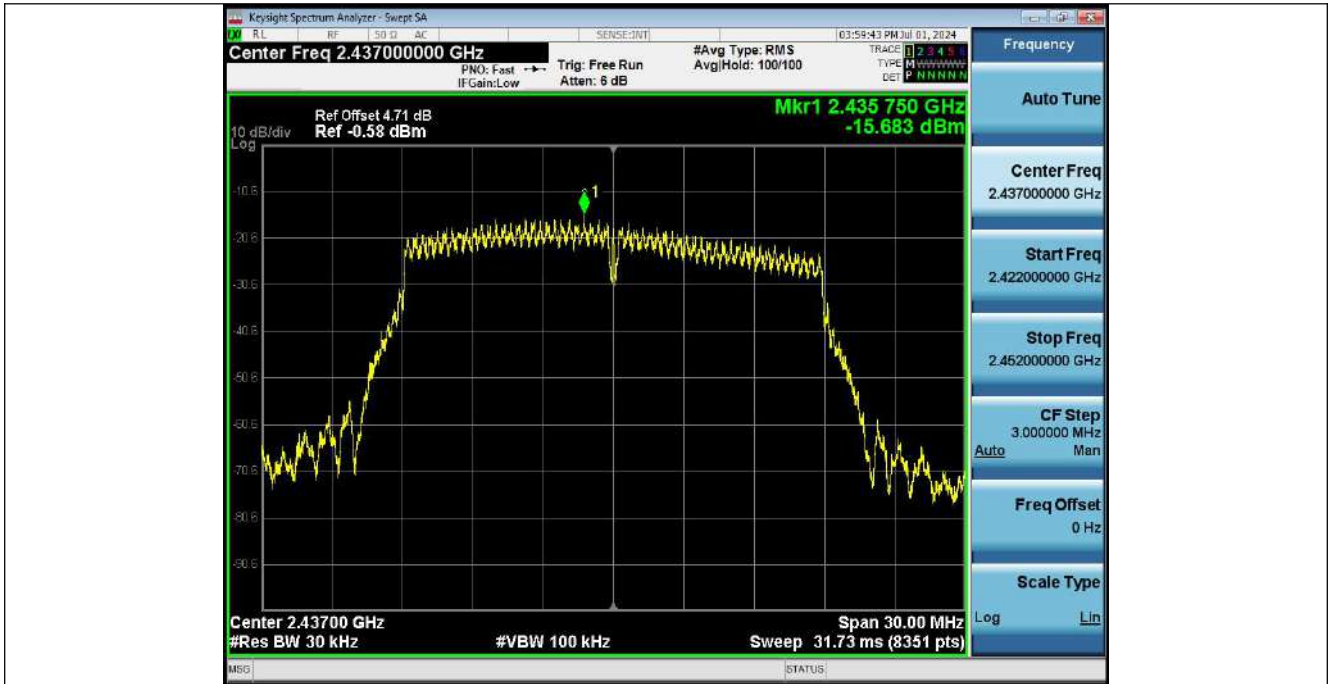
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



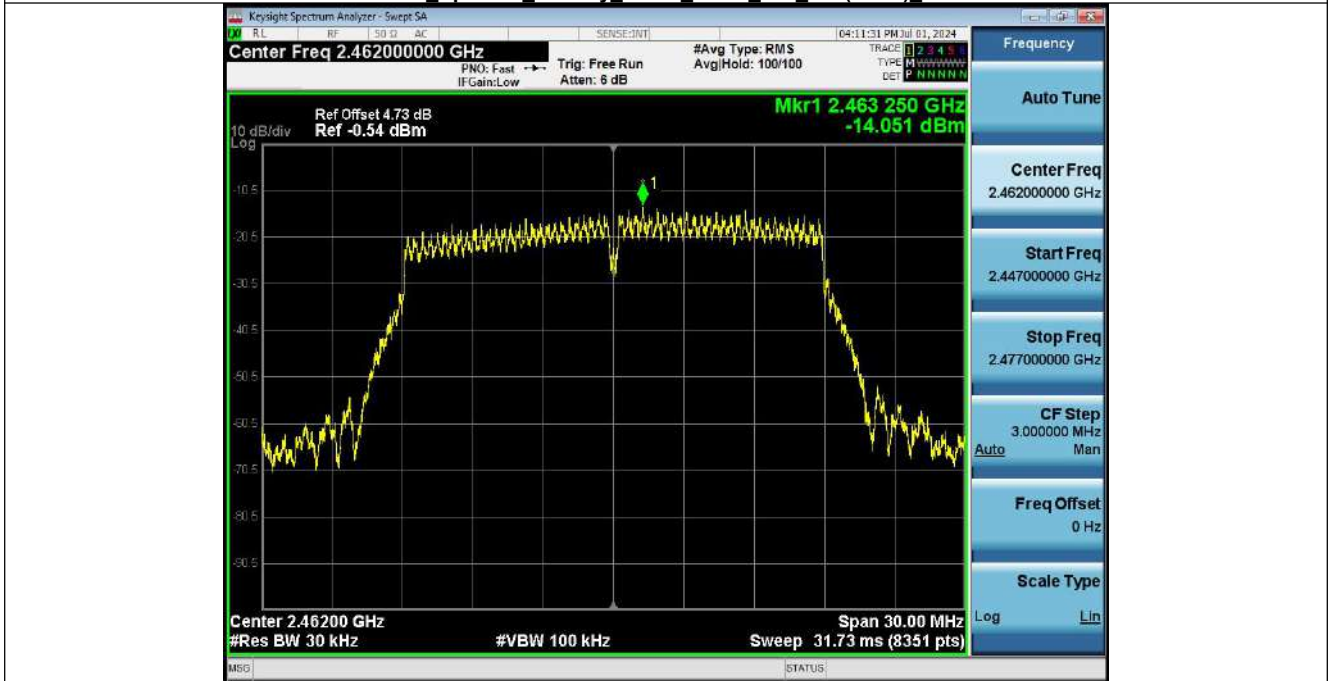
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



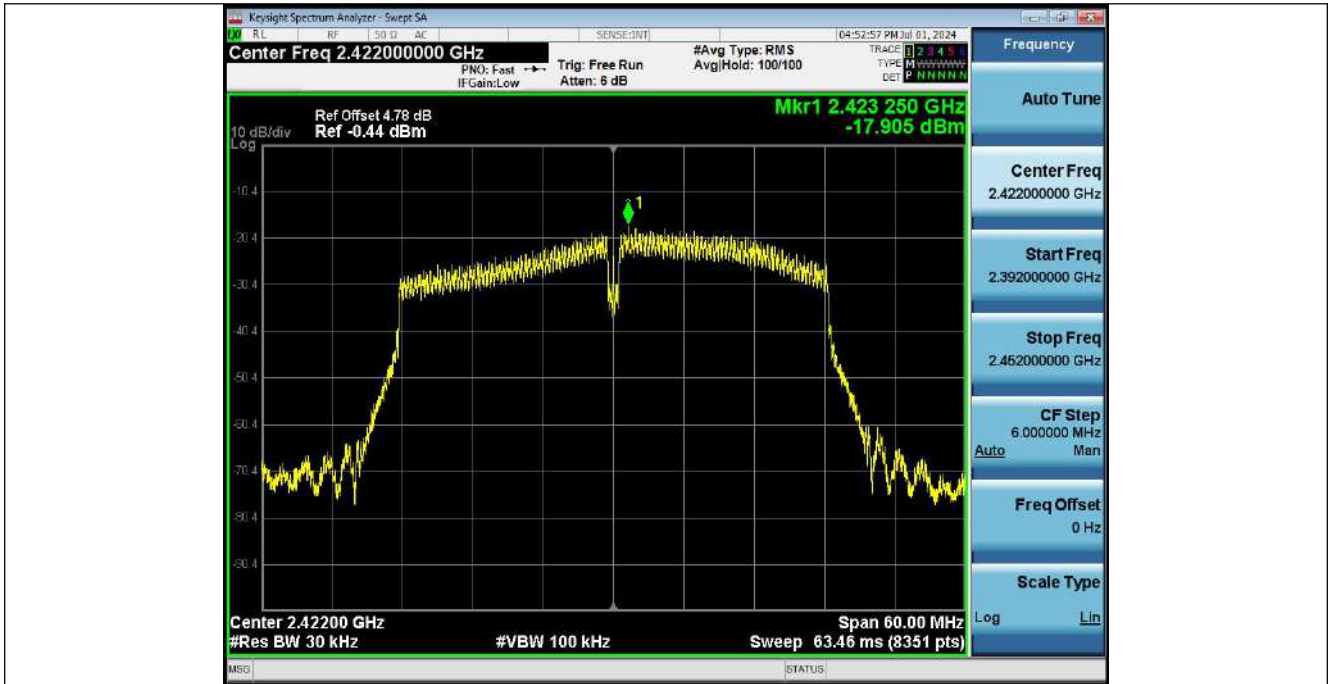
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



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

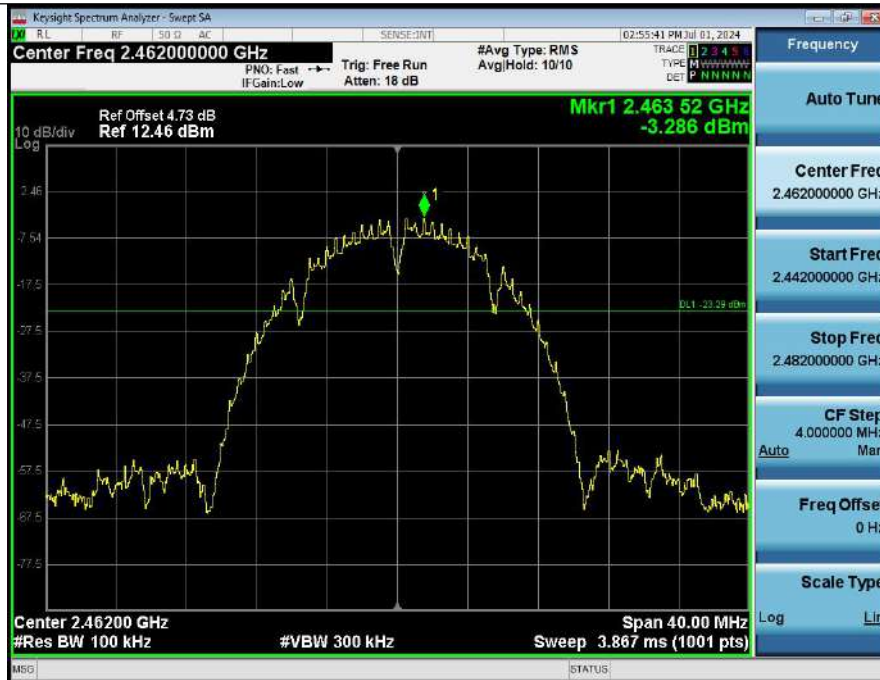


6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2397.024	-54.403	-23.206	Pass
NVNT	ANT1	802.11b	2462.00	2483.632	-66.599	-23.286	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-55.493	-33.045	Pass
NVNT	ANT1	802.11g	2462.00	2484.832	-68.488	-33.231	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-56.470	-33.342	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-66.849	-32.553	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.232	-61.662	-36.120	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.156	-67.413	-37.111	Pass



1 Reference_Level_NVNT_ANT1_802_11b_2462



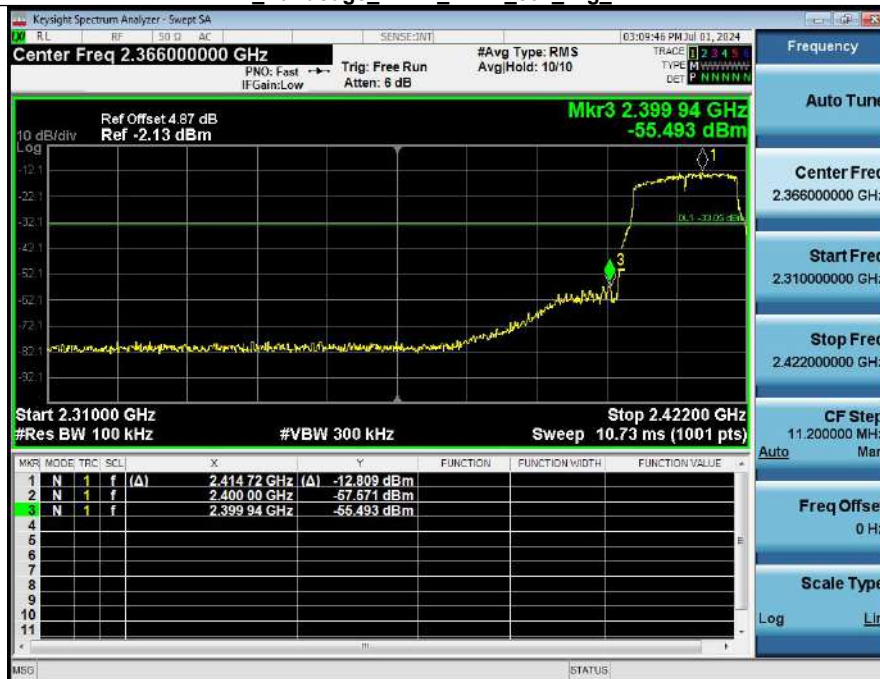
2_Bandedge_NVNT_ANT1_802_11b_2462



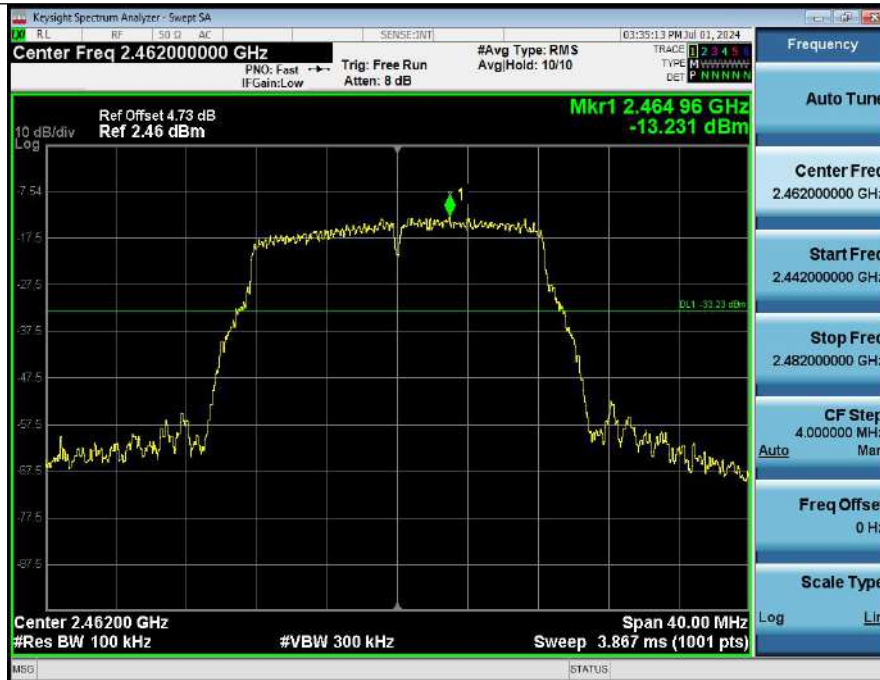
1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



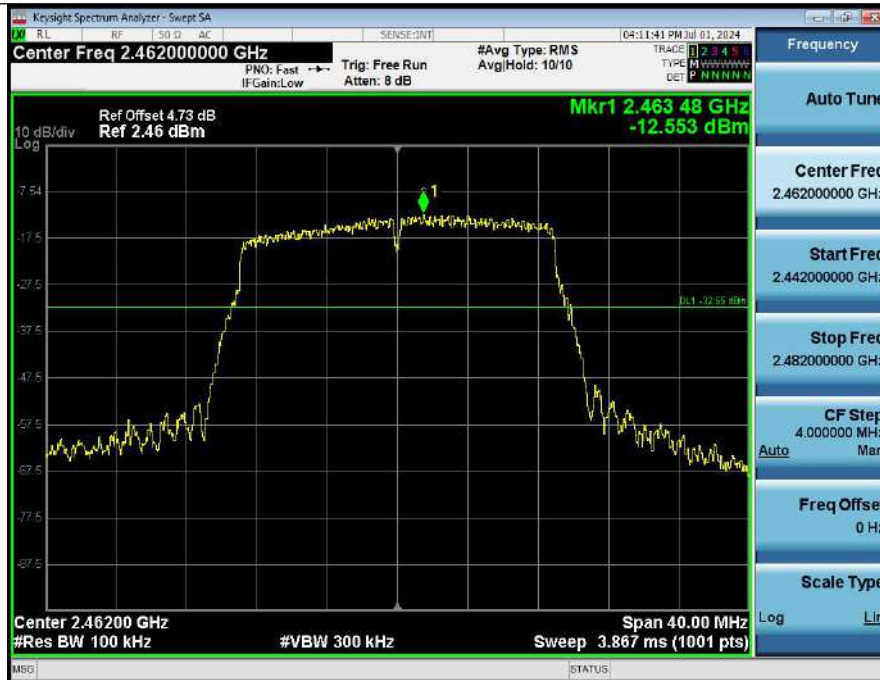
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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



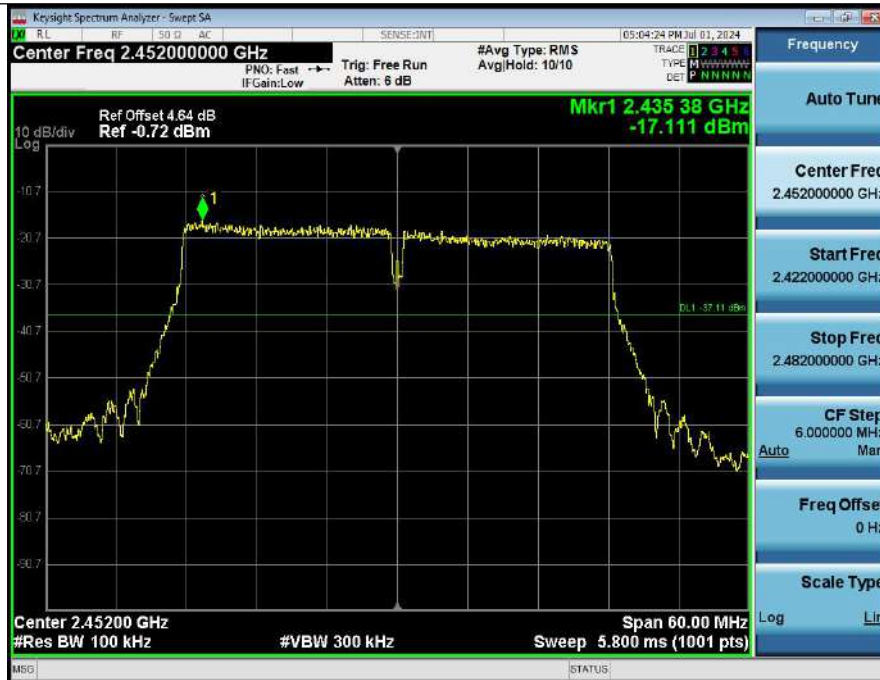
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



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_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24715.342	-55.834	-23.206	Pass
NVNT	ANT1	802.11b	2437.00	24950.060	-55.235	-23.925	Pass
NVNT	ANT1	802.11b	2462.00	24305.834	-59.930	-23.286	Pass
NVNT	ANT1	802.11g	2412.00	24995.006	-67.338	-33.045	Pass
NVNT	ANT1	802.11g	2437.00	24887.635	-67.048	-32.772	Pass
NVNT	ANT1	802.11g	2462.00	24995.006	-67.005	-33.231	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24820.216	-64.657	-33.342	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24987.515	-64.803	-34.250	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24980.024	-67.788	-32.553	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24970.036	-66.799	-36.120	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	25000.000	-67.998	-35.778	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24907.611	-67.596	-37.111	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



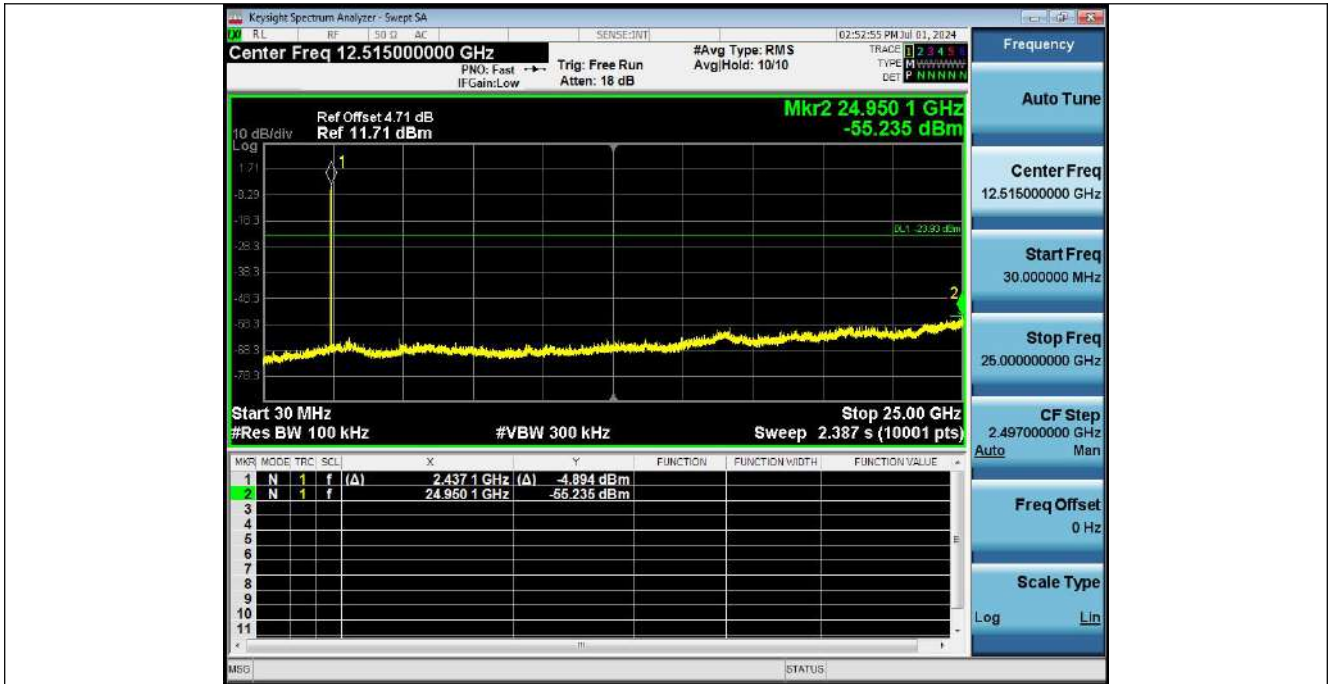
2 Spurious Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT_ANT1_802_11b_2437



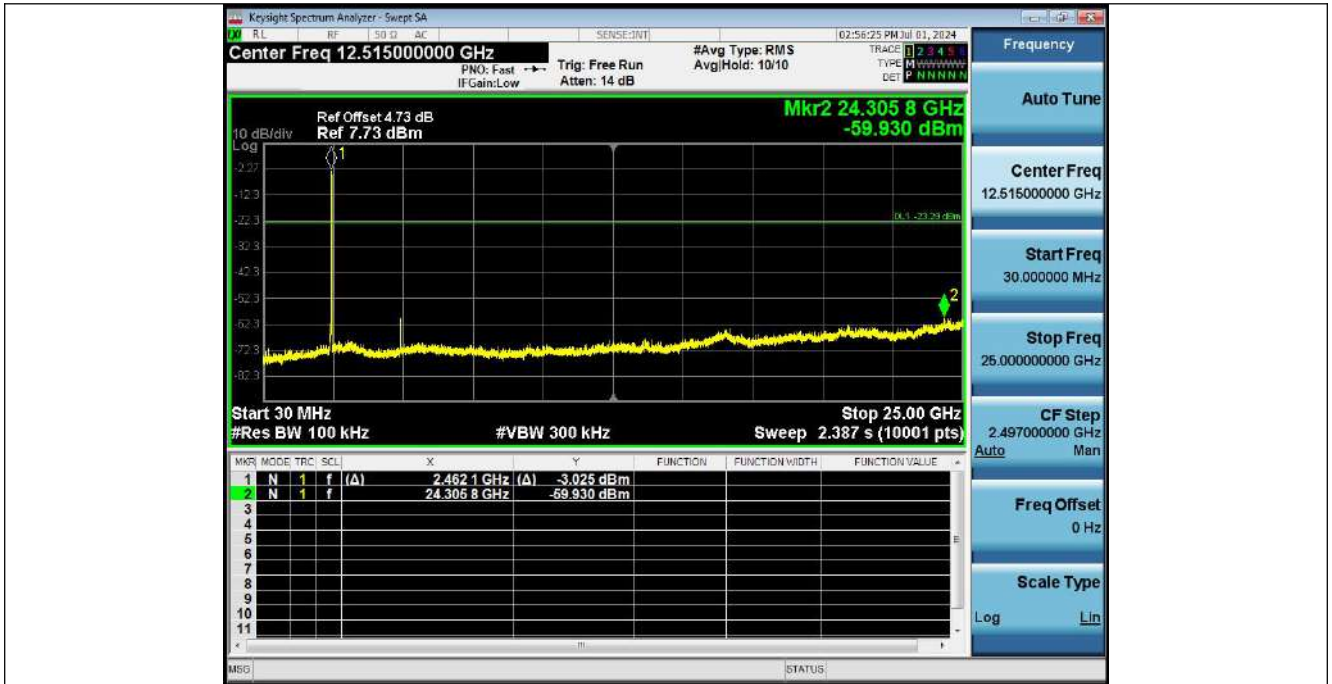
2 Spurious Emission_NVNT_ANT1_802_11b_2437



1 Reference Level NVNT_ANT1_802_11b_2462



2 Spurious Emission NVNT_ANT1_802_11b_2462



1 Reference Level NVNT_ANT1_802_11g_2412



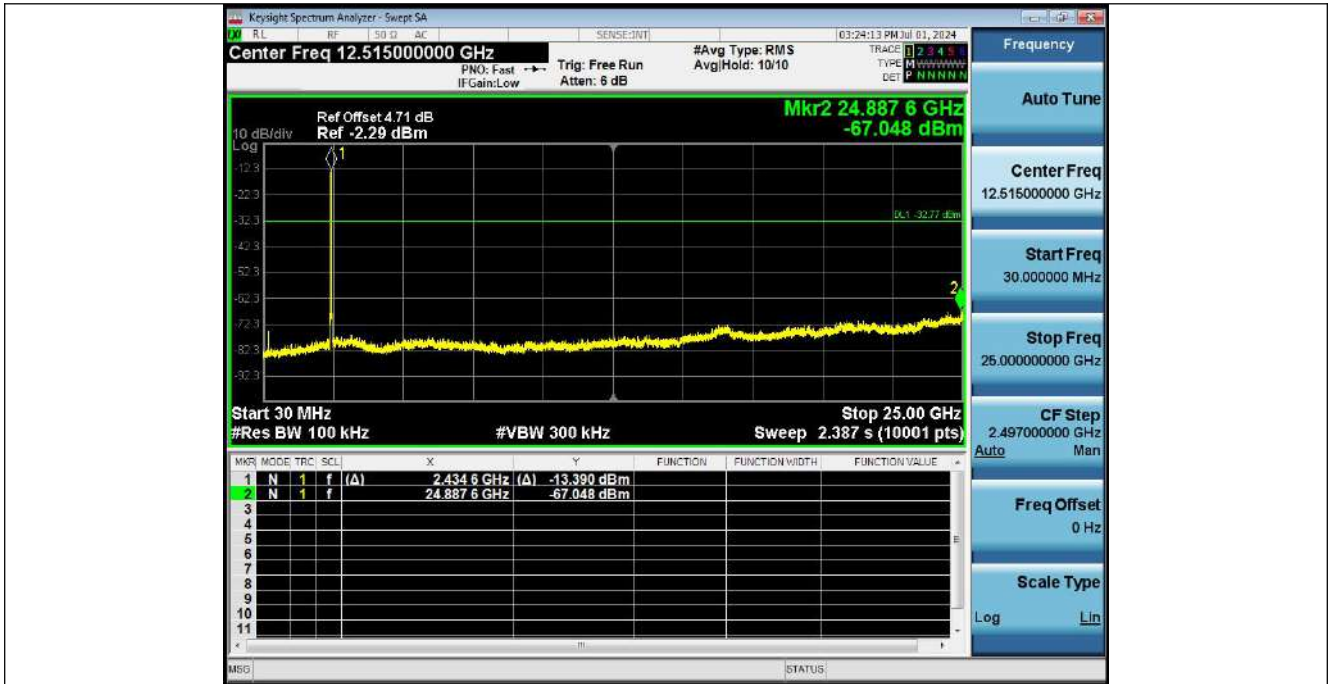
2 Spurious Emission NVNT_ANT1_802_11g_2412



1 Reference Level NVNT_ANT1_802_11g_2437



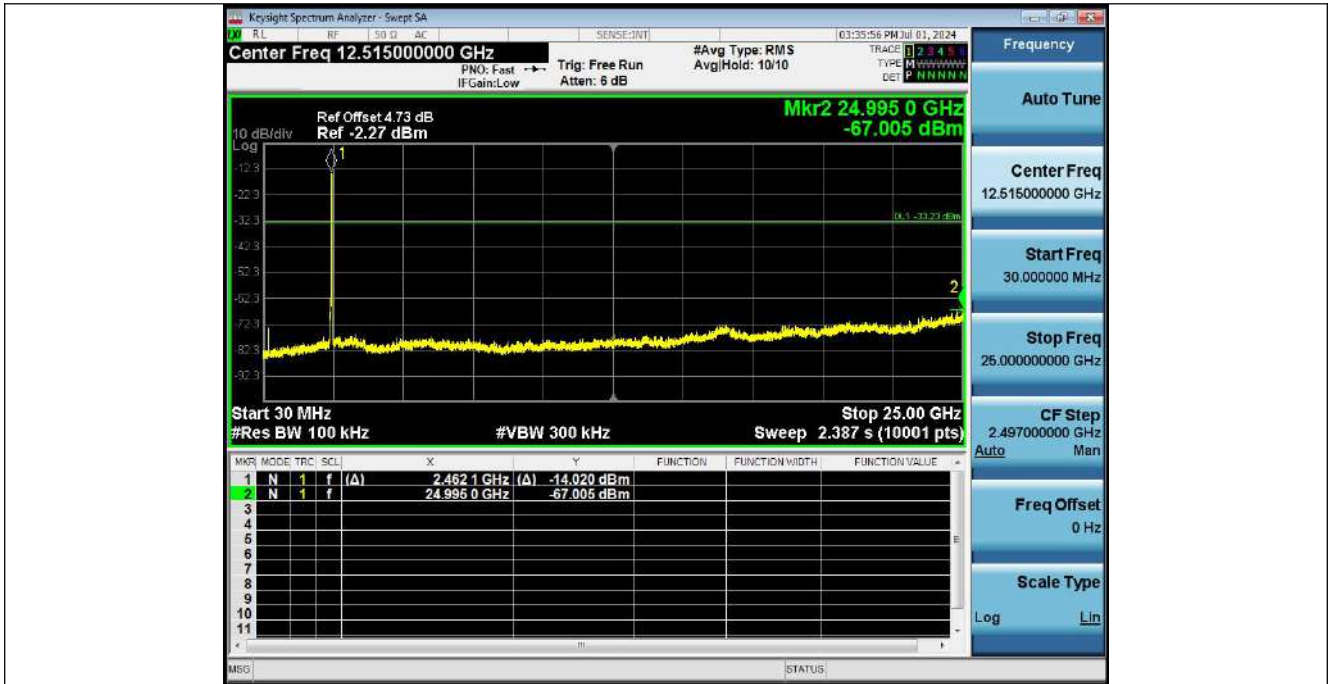
2 Spurious Emission_NVNT_ANT1_802_11g_2437



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



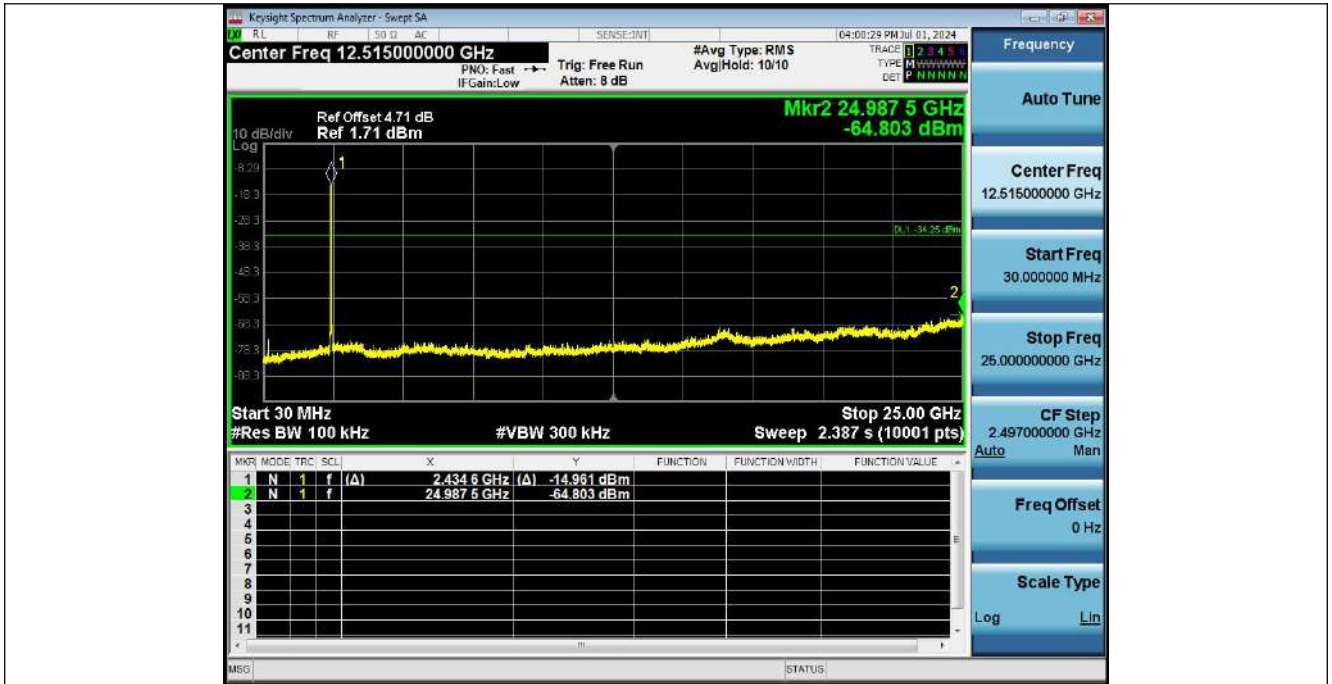
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412



1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



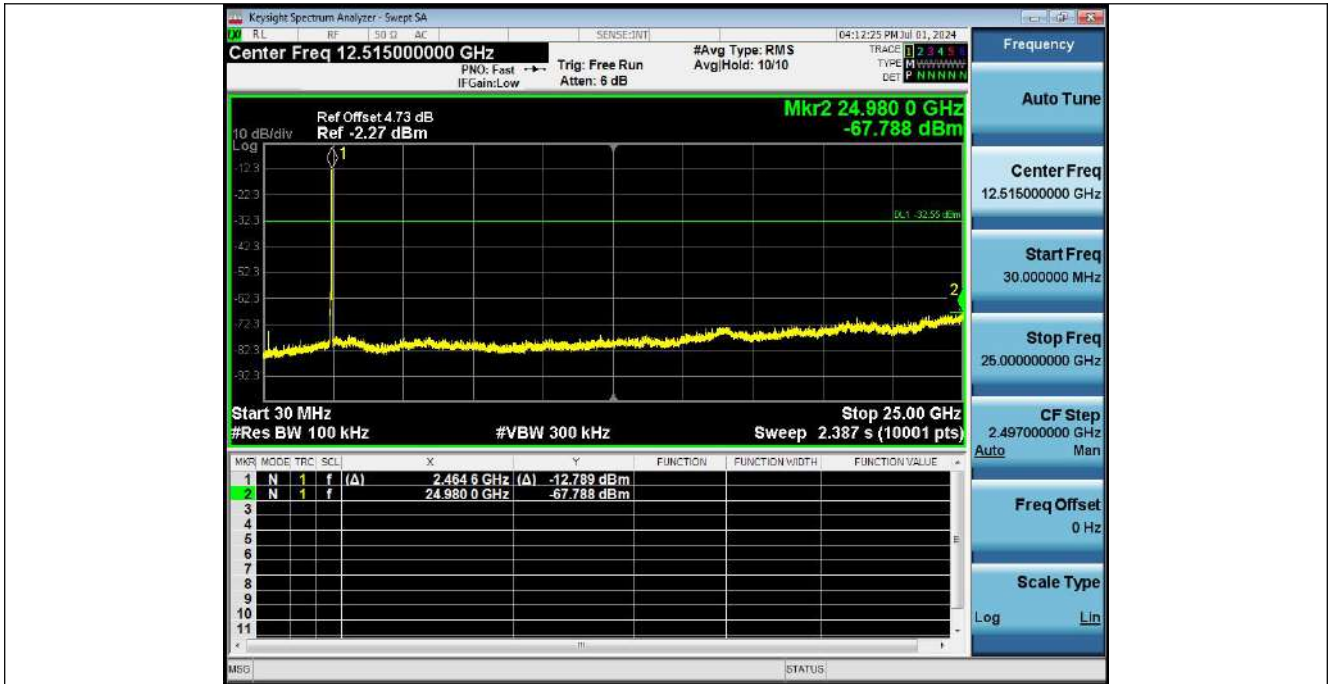
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



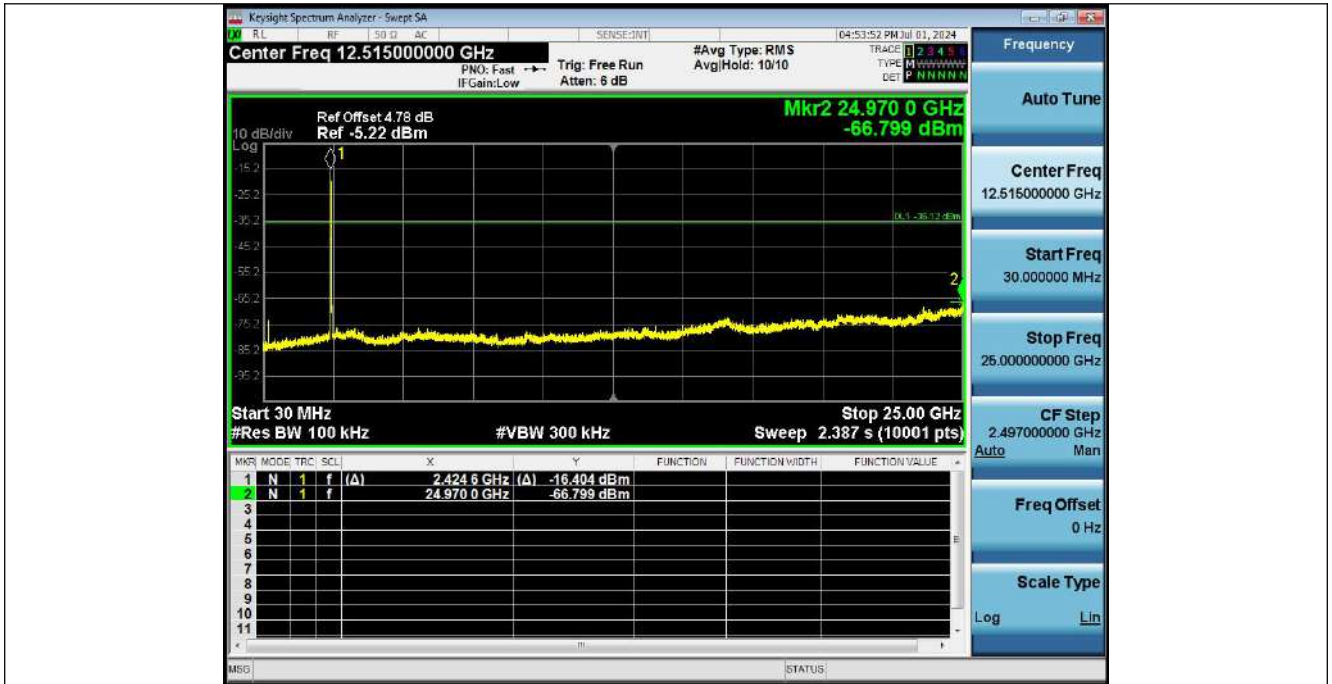
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



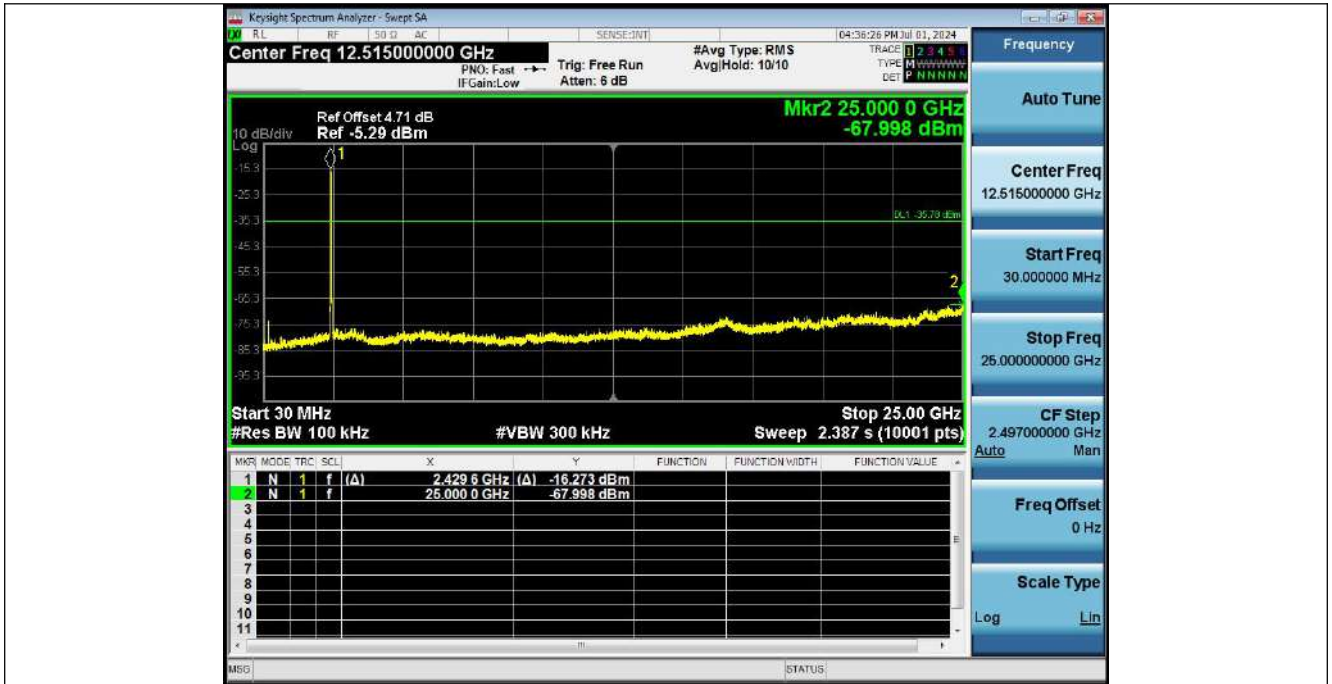
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



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

