

Table of Contents

1. -6dB Bandwidth2

2. 99% Occupied Bandwidth9

3. Duty Cycle16

5. Power Spectral Density23

6. Bandedge30

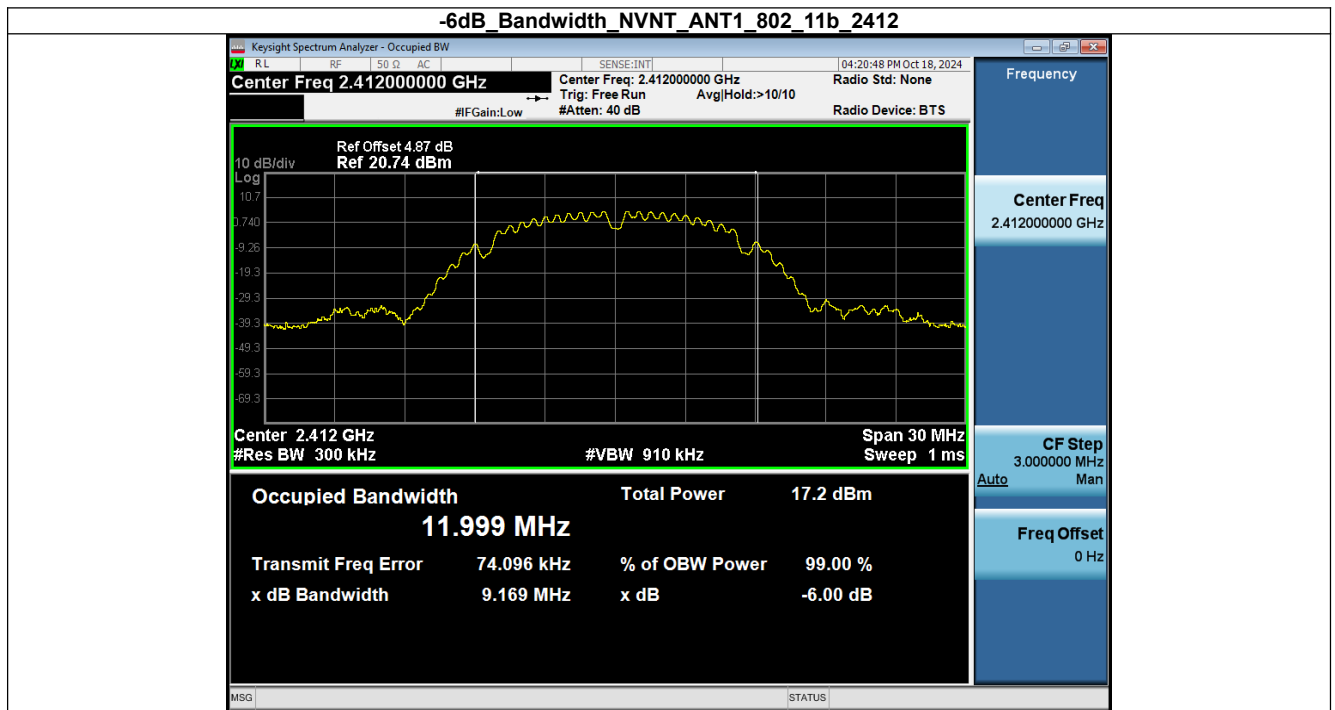
7. Spurious Emission38

FCC ID:2A7HI-C3

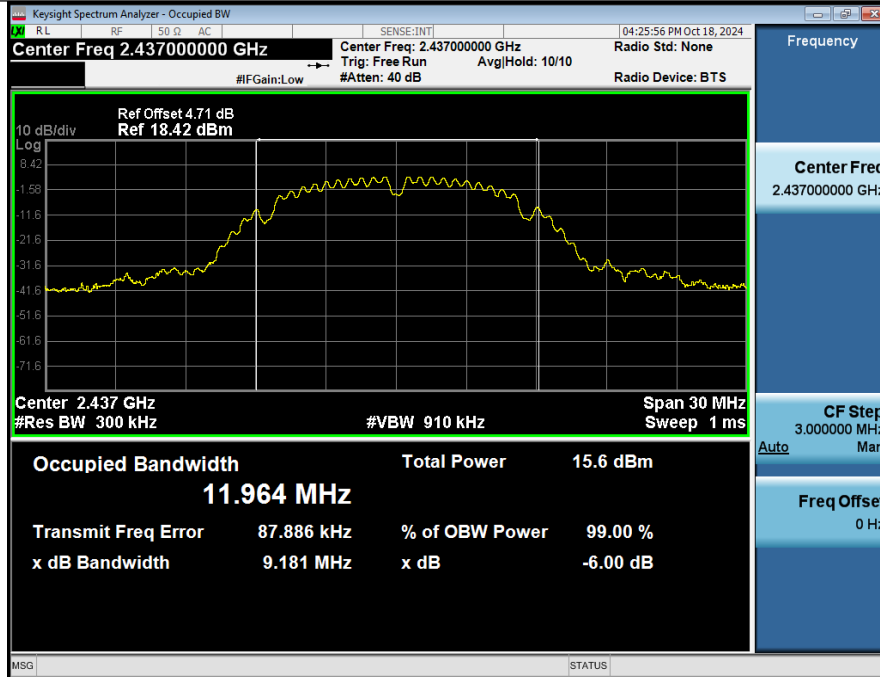
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.17	500	Pass
NVNT	ANT1	802.11b	2437.00	9.18	500	Pass
NVNT	ANT1	802.11b	2462.00	9.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.30	500	Pass
NVNT	ANT1	802.11g	2437.00	16.35	500	Pass
NVNT	ANT1	802.11g	2462.00	16.38	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.31	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.34	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.25	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.74	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.67	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.73	500	Pass



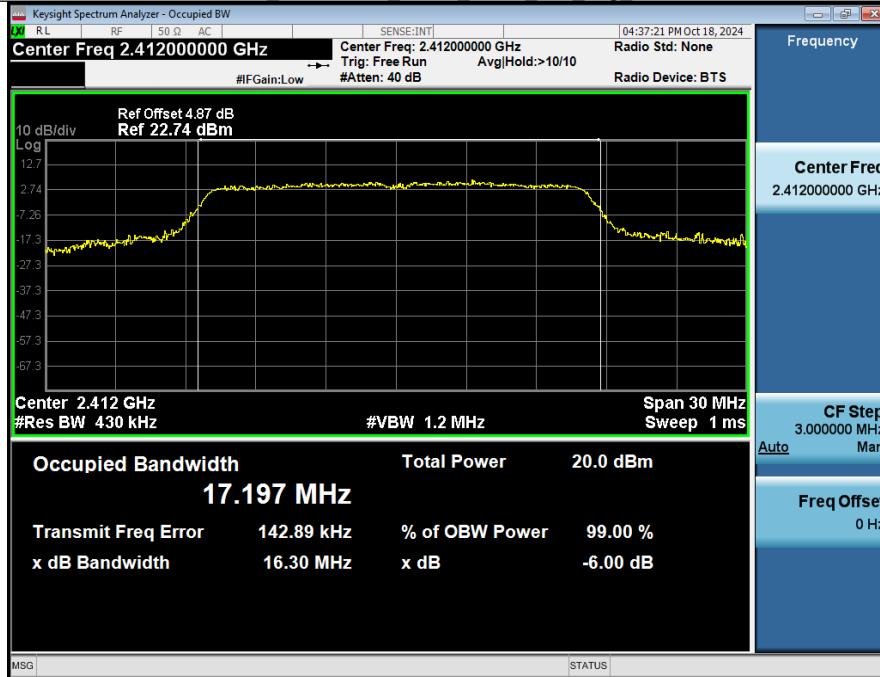
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



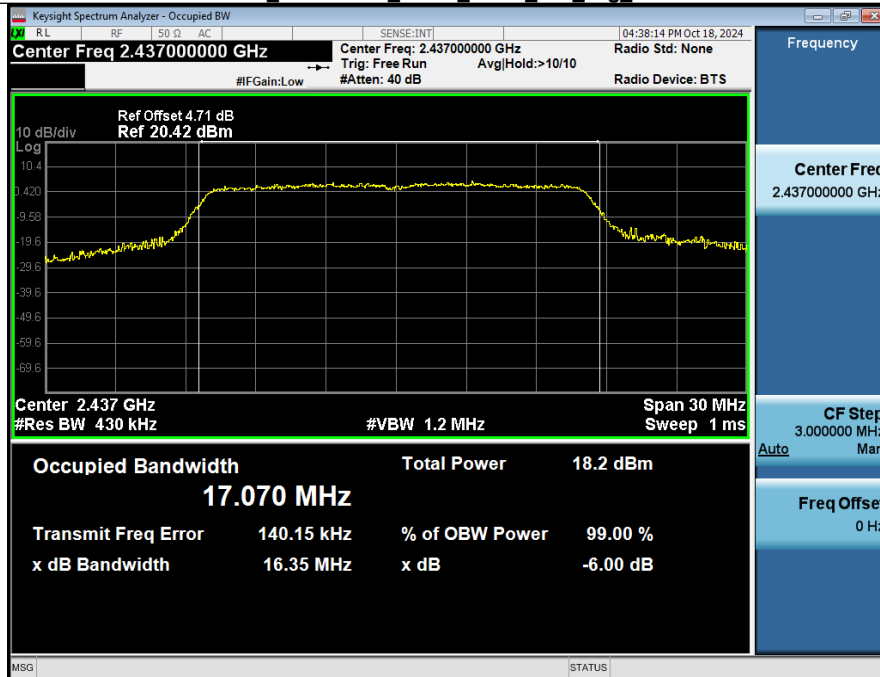
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



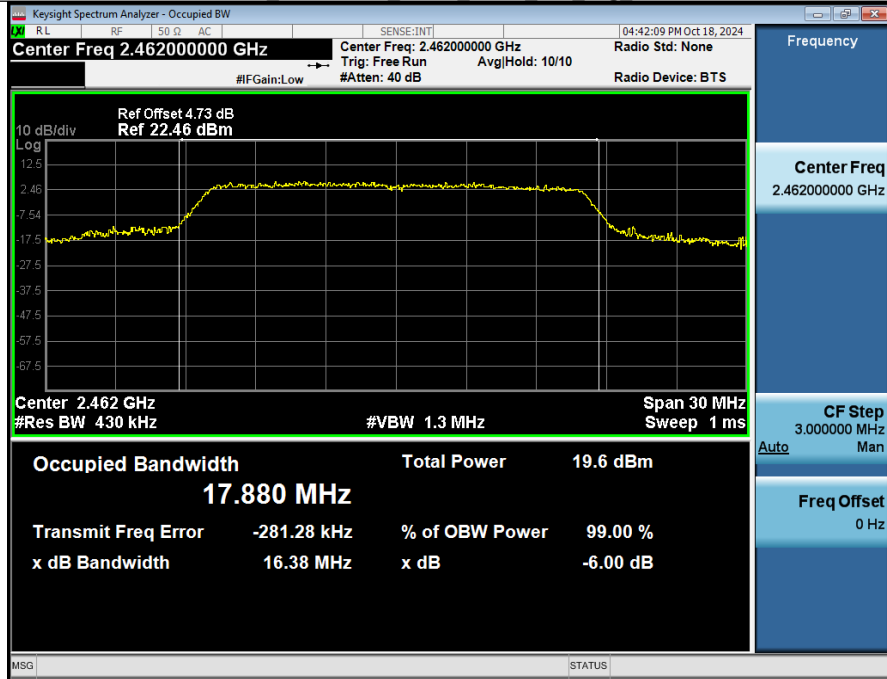
-6dB Bandwidth NVNT ANT1_802_11g_2412



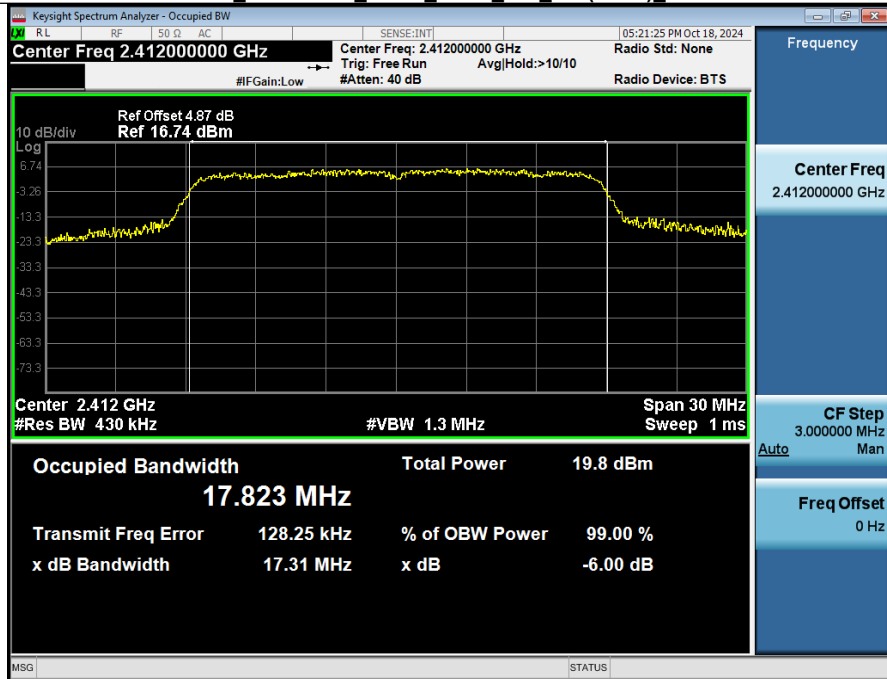
-6dB Bandwidth NVNT ANT1_802_11g_2437



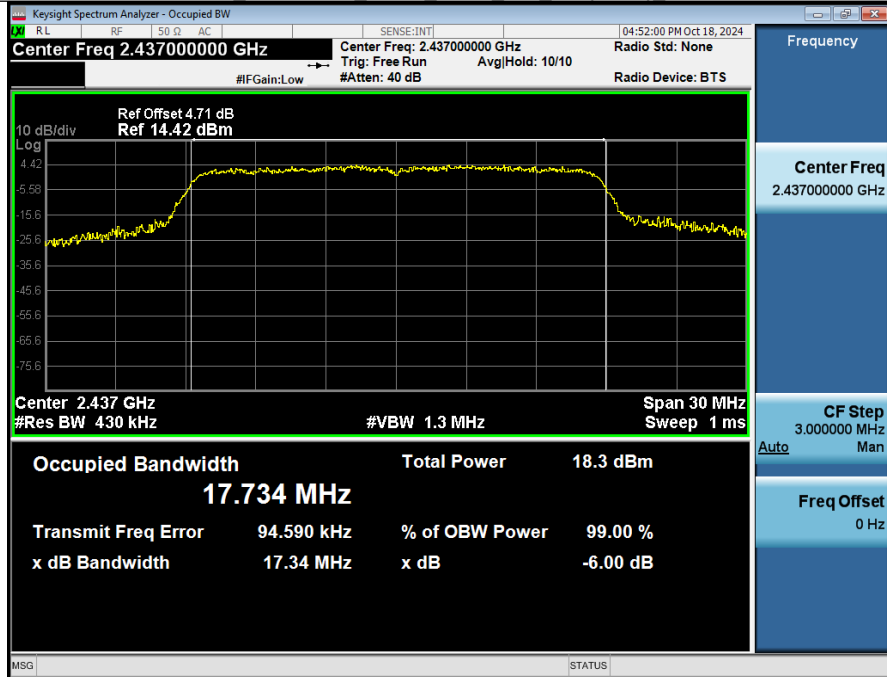
-6dB Bandwidth_NVNT_ANT1_802_11g_2462



-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



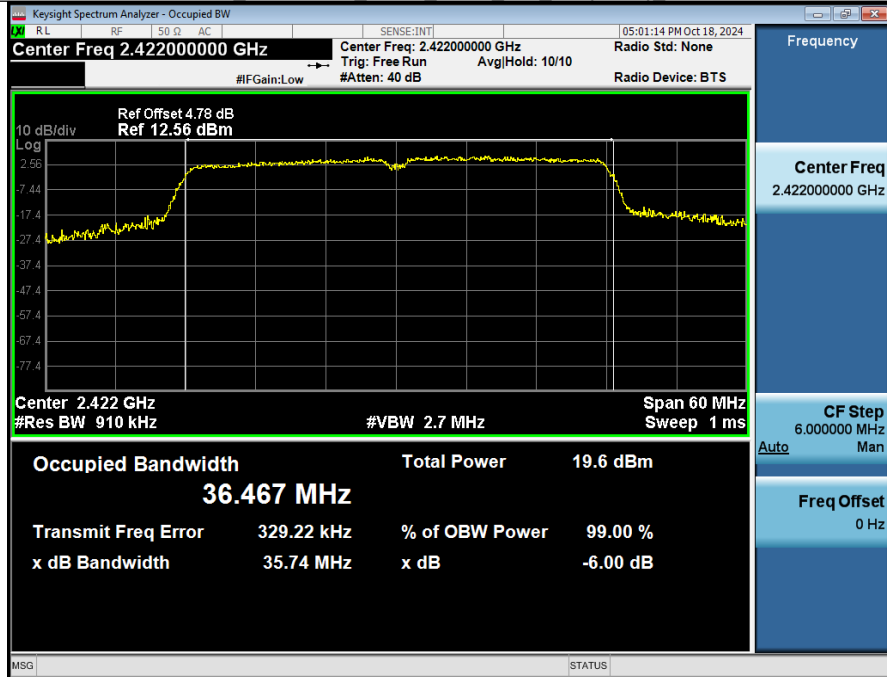
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



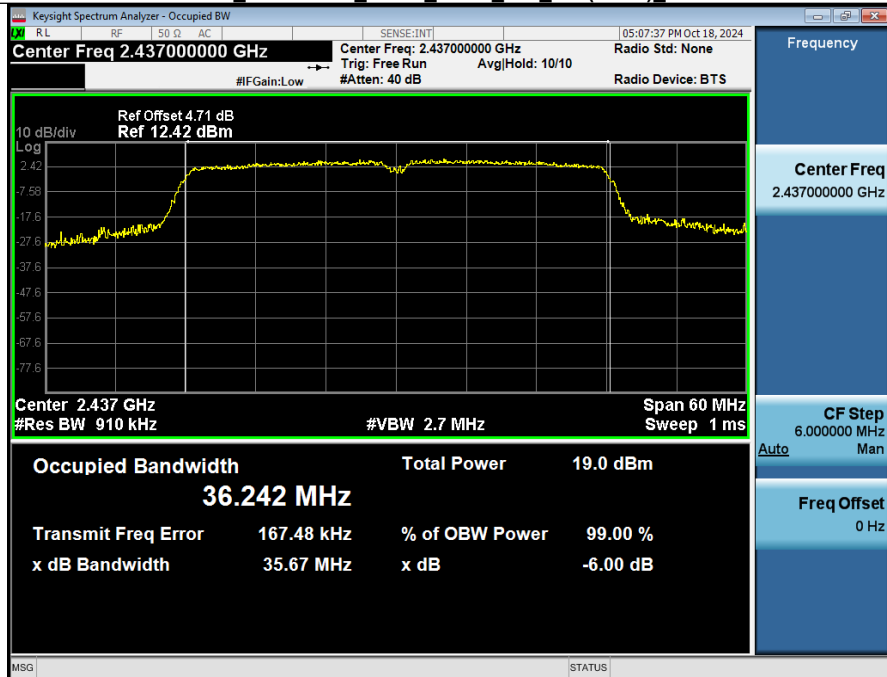
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

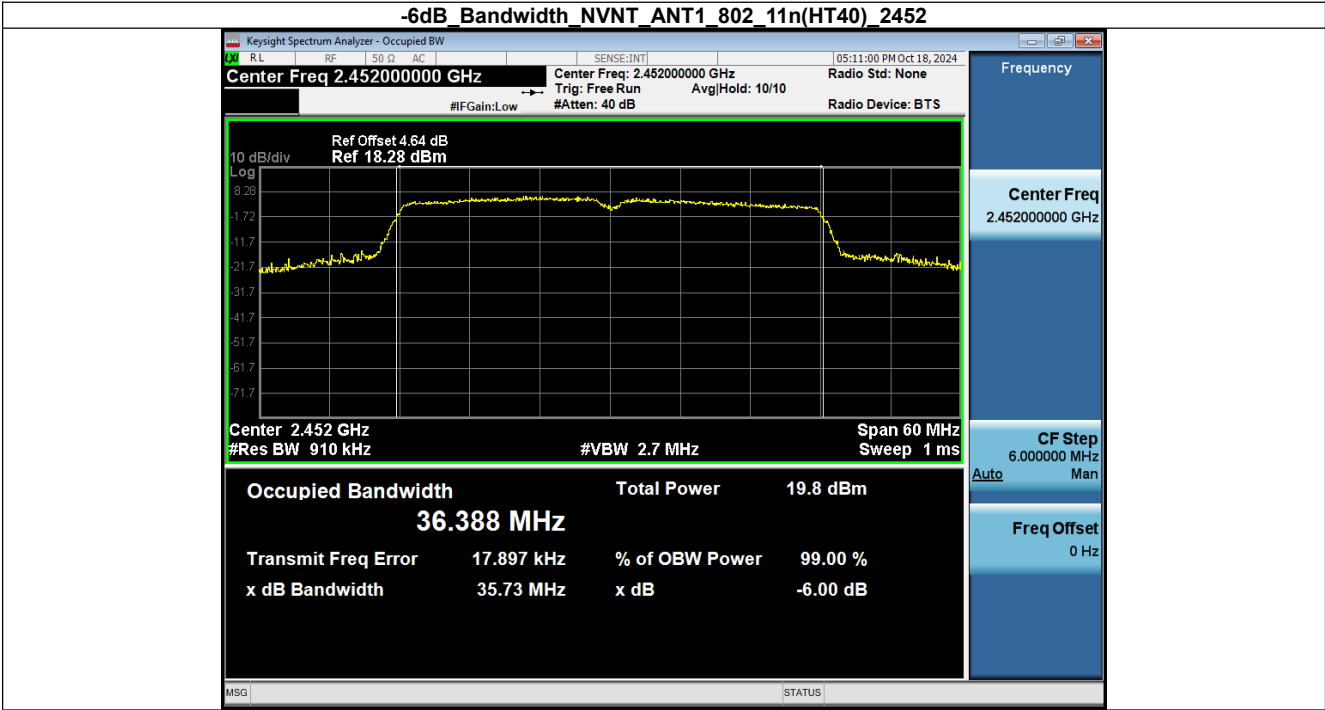


-6dB Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



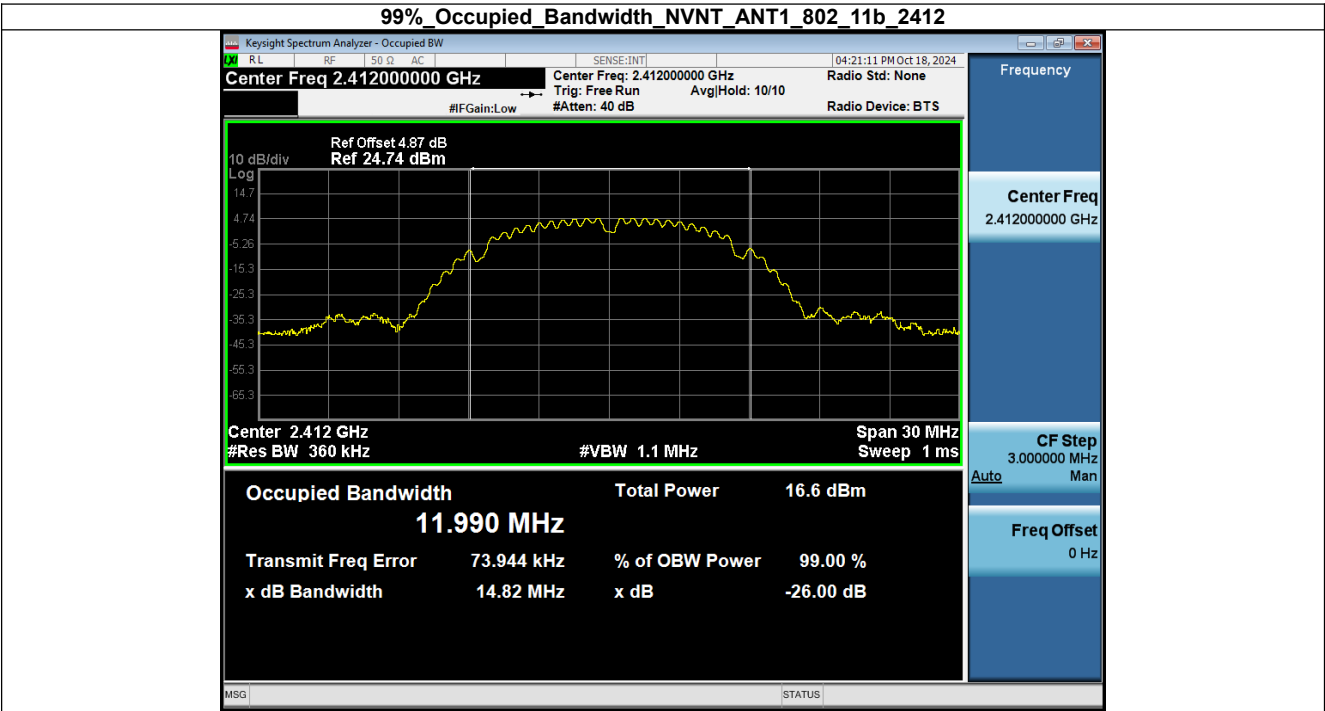
-6dB Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



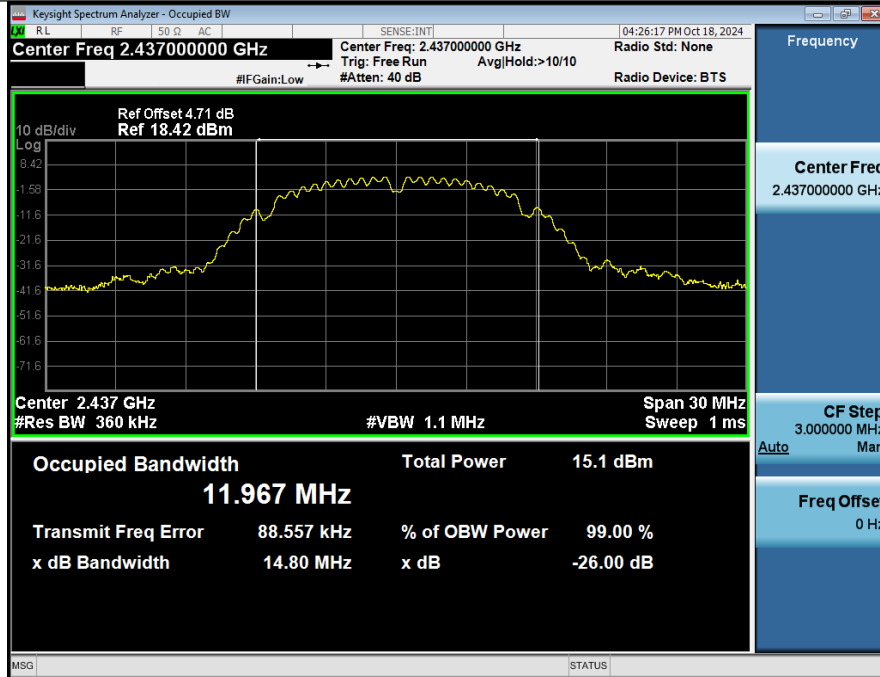


2. 99% Occupied Bandwidth

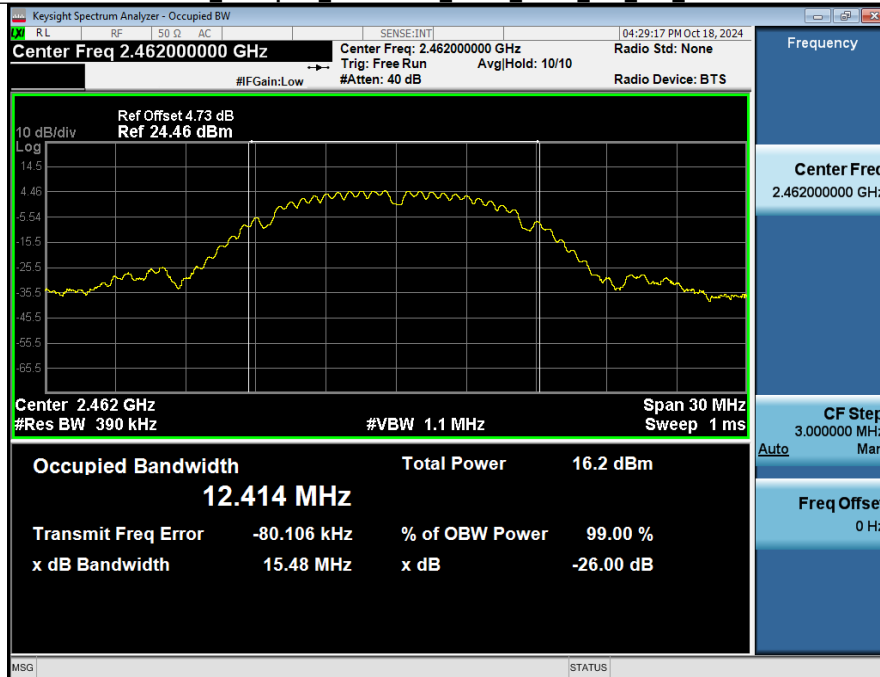
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.990
NVNT	ANT1	802.11b	2437.00	11.967
NVNT	ANT1	802.11b	2462.00	12.414
NVNT	ANT1	802.11g	2412.00	17.677
NVNT	ANT1	802.11g	2437.00	17.371
NVNT	ANT1	802.11g	2462.00	18.473
NVNT	ANT1	802.11n(HT20)	2412.00	17.971
NVNT	ANT1	802.11n(HT20)	2437.00	17.856
NVNT	ANT1	802.11n(HT20)	2462.00	18.395
NVNT	ANT1	802.11n(HT40)	2422.00	36.562
NVNT	ANT1	802.11n(HT40)	2437.00	36.318
NVNT	ANT1	802.11n(HT40)	2452.00	36.506



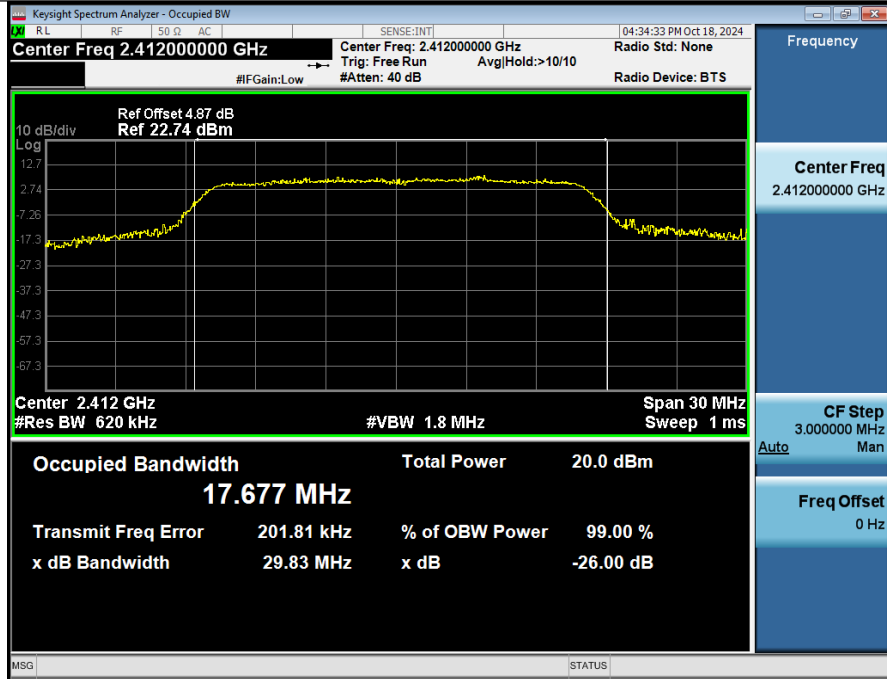
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



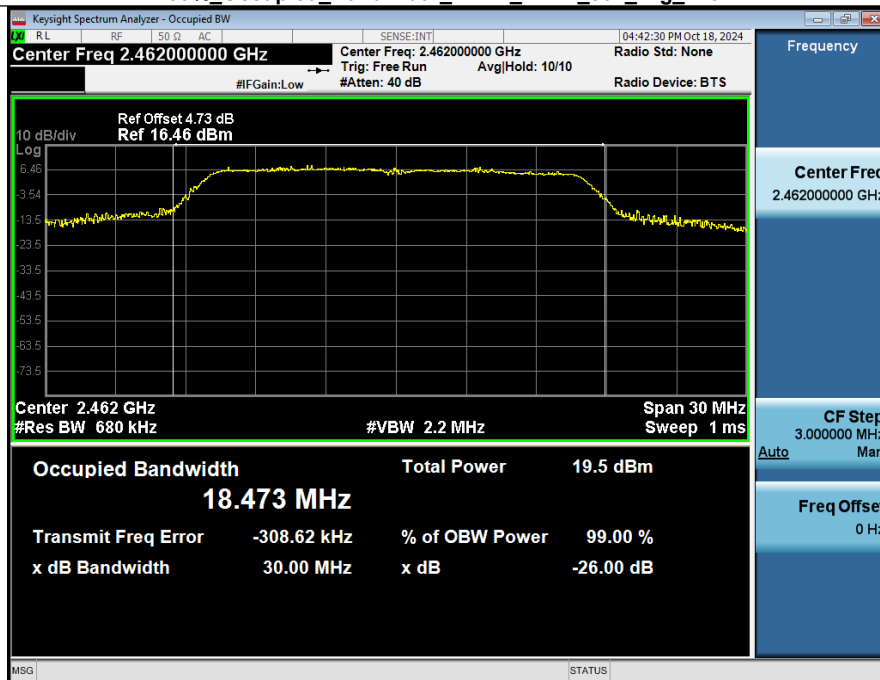
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



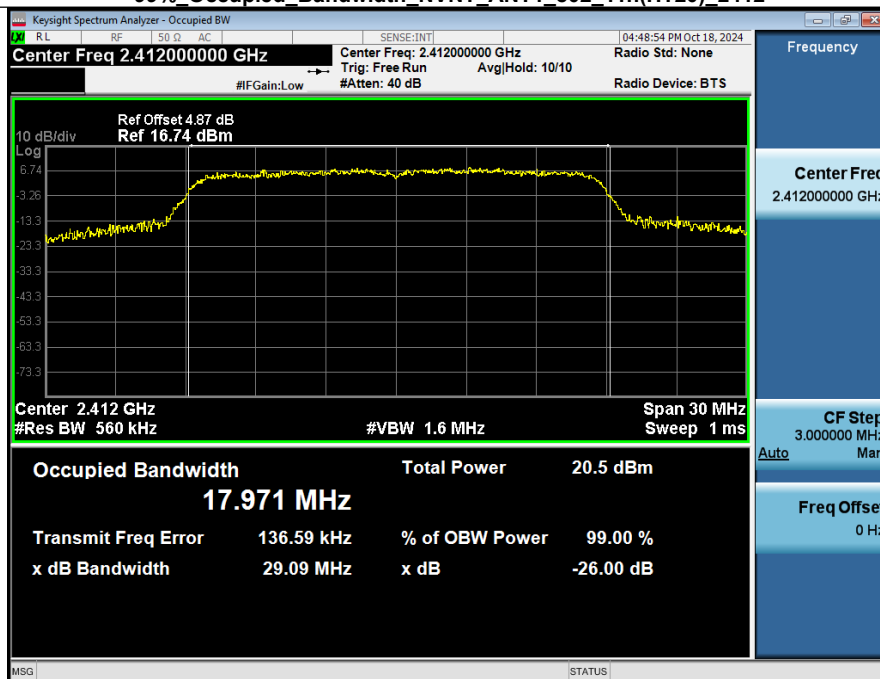
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437

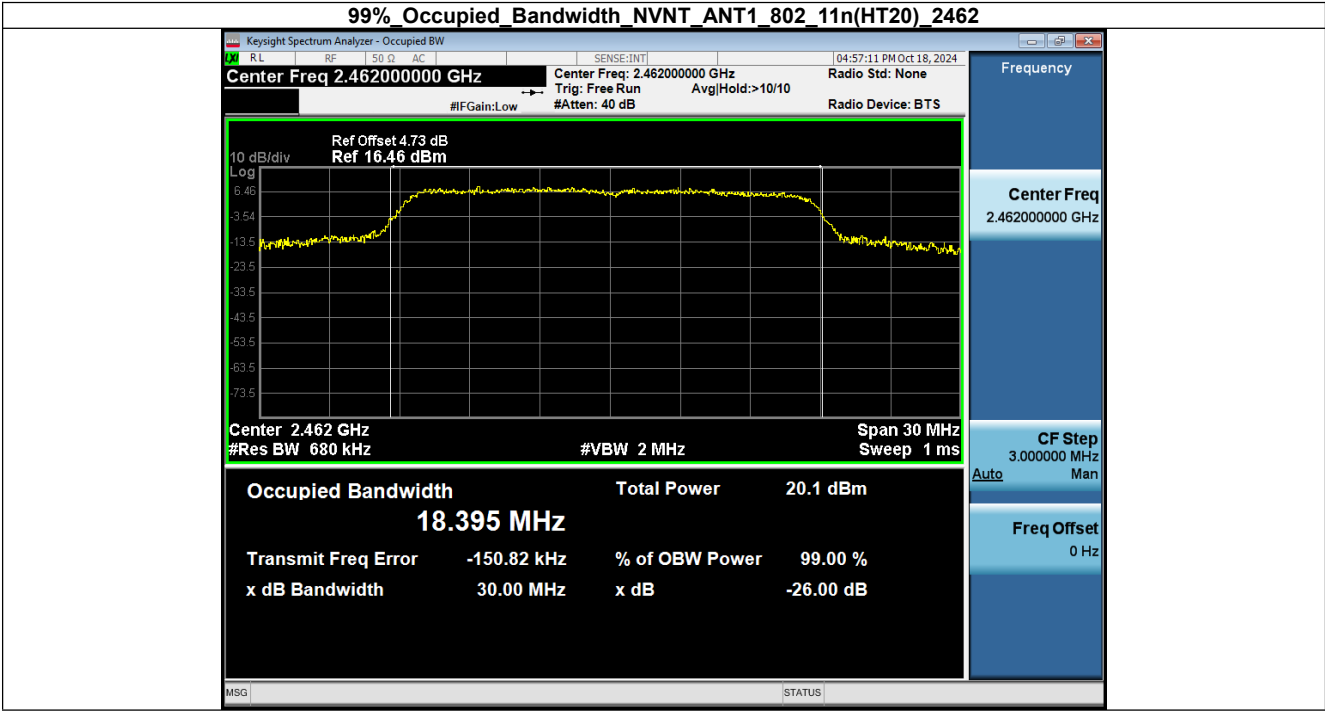
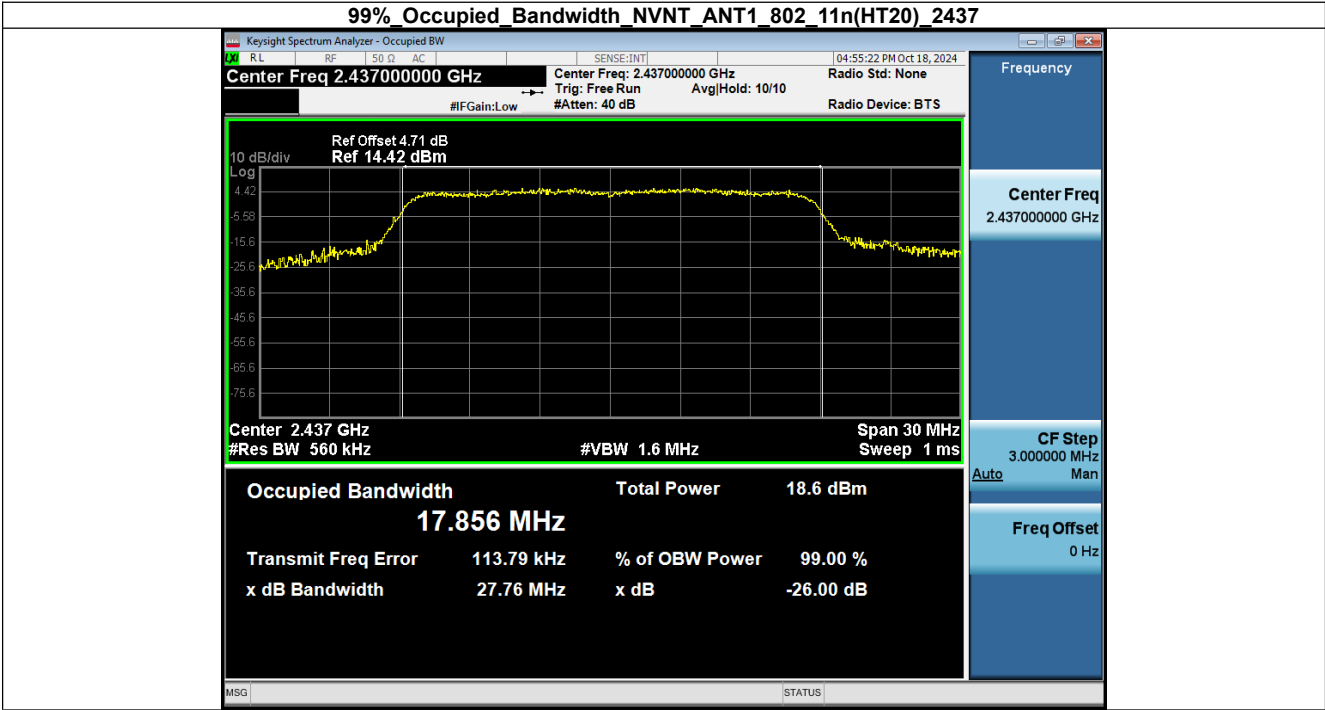


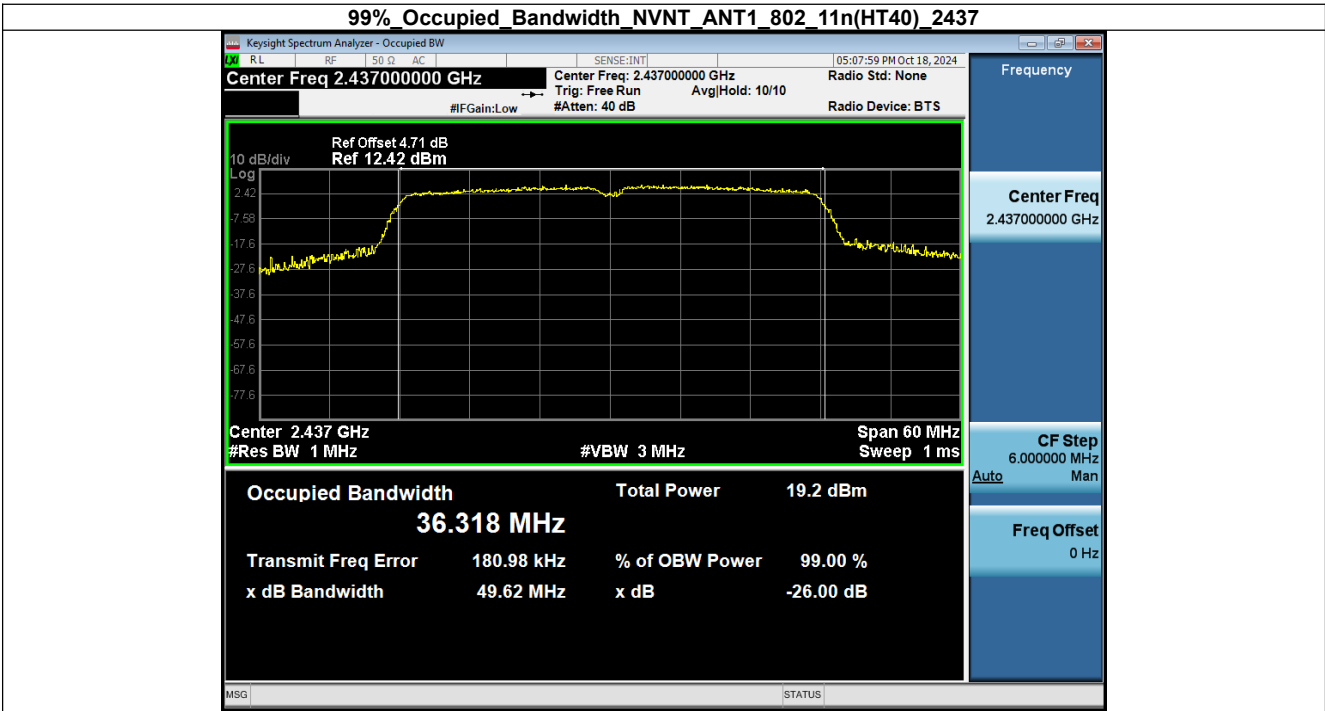
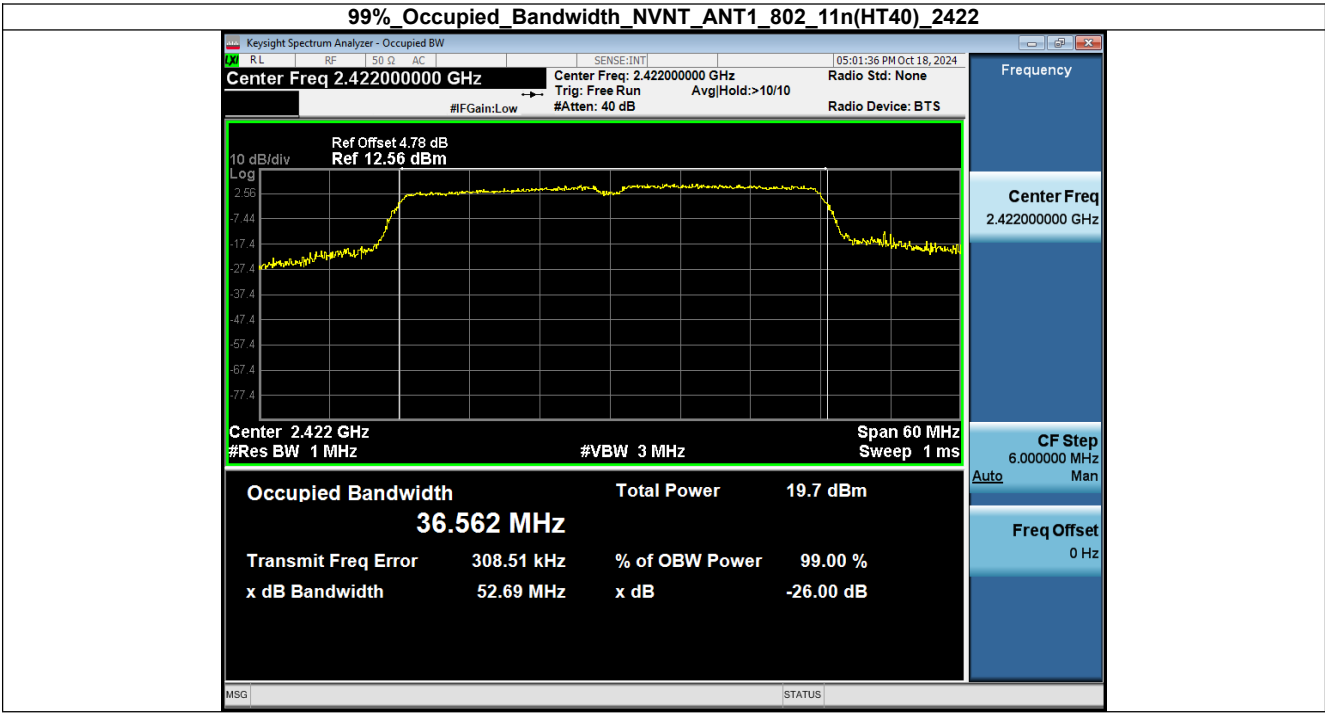
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462

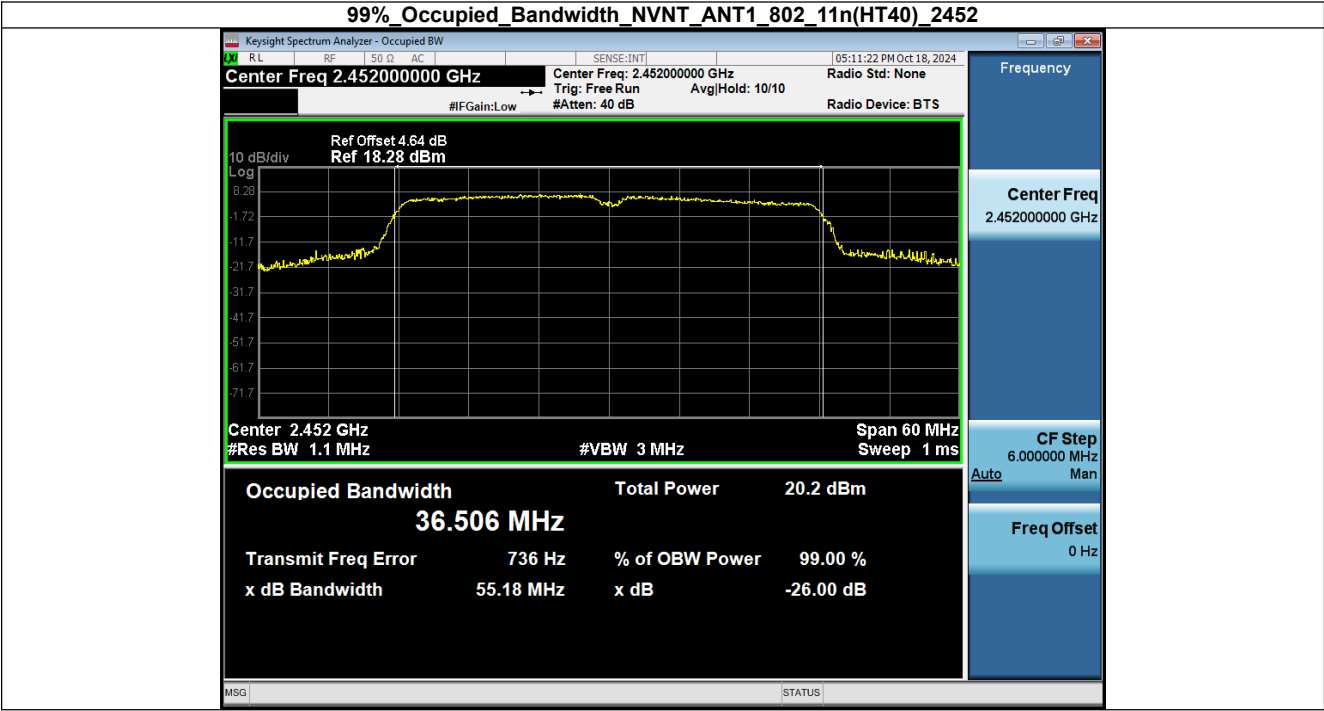


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



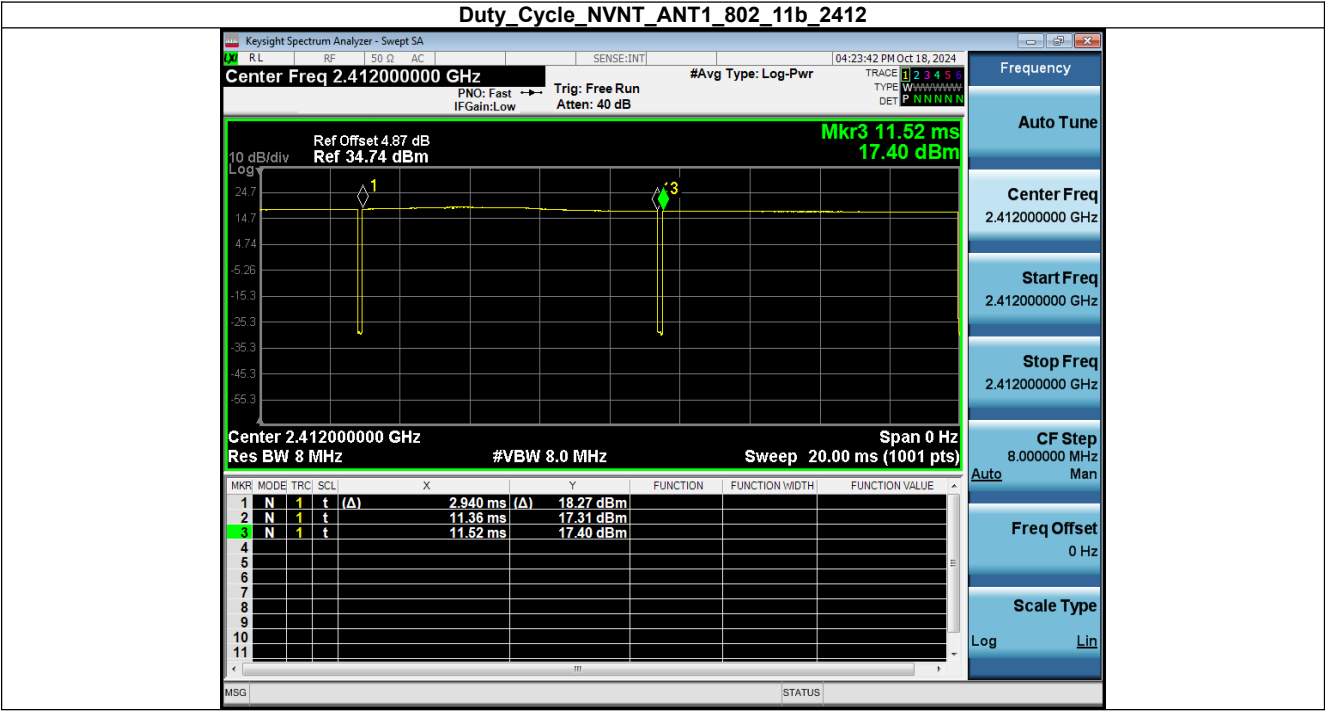




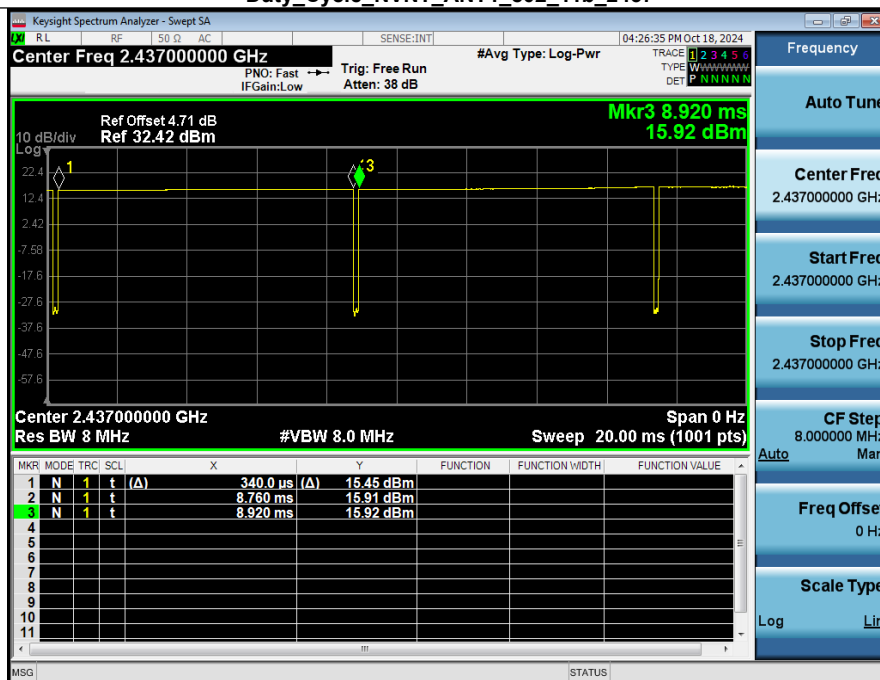


3. Duty Cycle

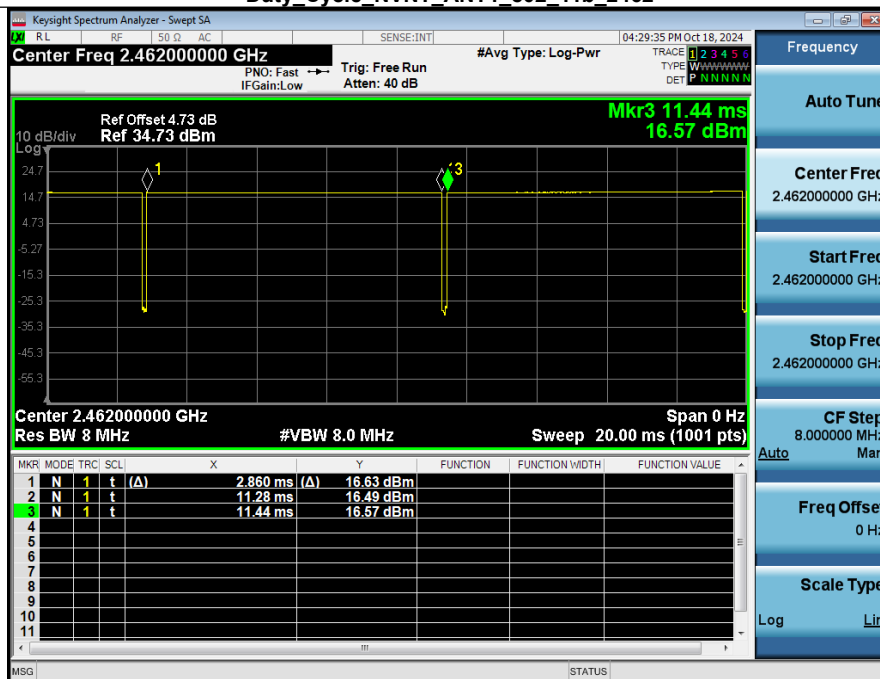
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.37	0.00
NVNT	ANT1	802.11b	2437.00	98.37	0.00
NVNT	ANT1	802.11b	2462.00	98.37	0.00
NVNT	ANT1	802.11g	2412.00	91.03	0.41
NVNT	ANT1	802.11g	2437.00	90.91	0.41
NVNT	ANT1	802.11g	2462.00	92.21	0.35
NVNT	ANT1	802.11n(HT20)	2412.00	90.91	0.41
NVNT	ANT1	802.11n(HT20)	2437.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2462.00	90.91	0.41
NVNT	ANT1	802.11n(HT40)	2422.00	81.08	0.91
NVNT	ANT1	802.11n(HT40)	2437.00	83.78	0.77
NVNT	ANT1	802.11n(HT40)	2452.00	81.08	0.91



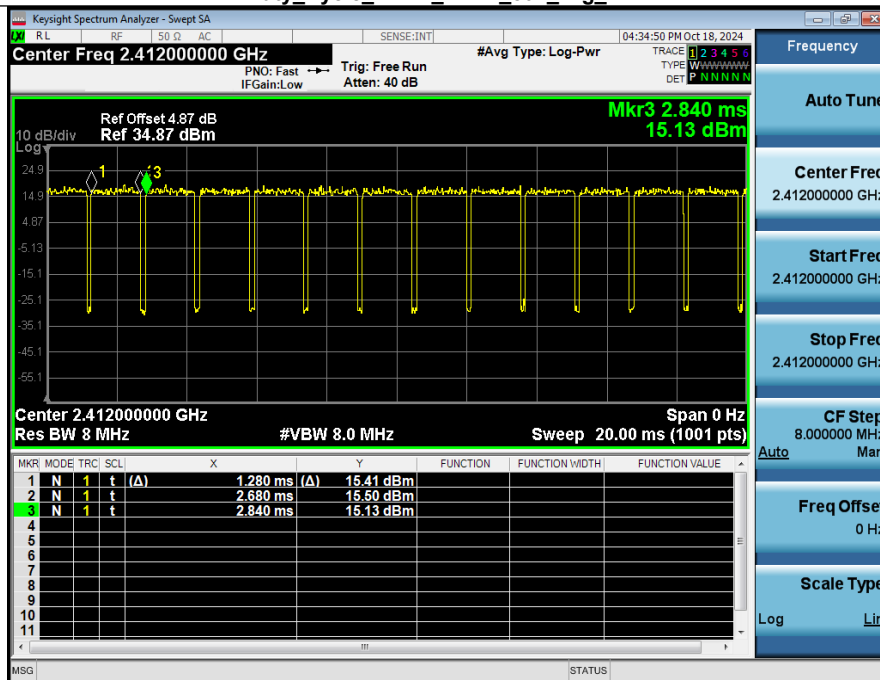
Duty Cycle NVNT_ANT1_802_11b_2437



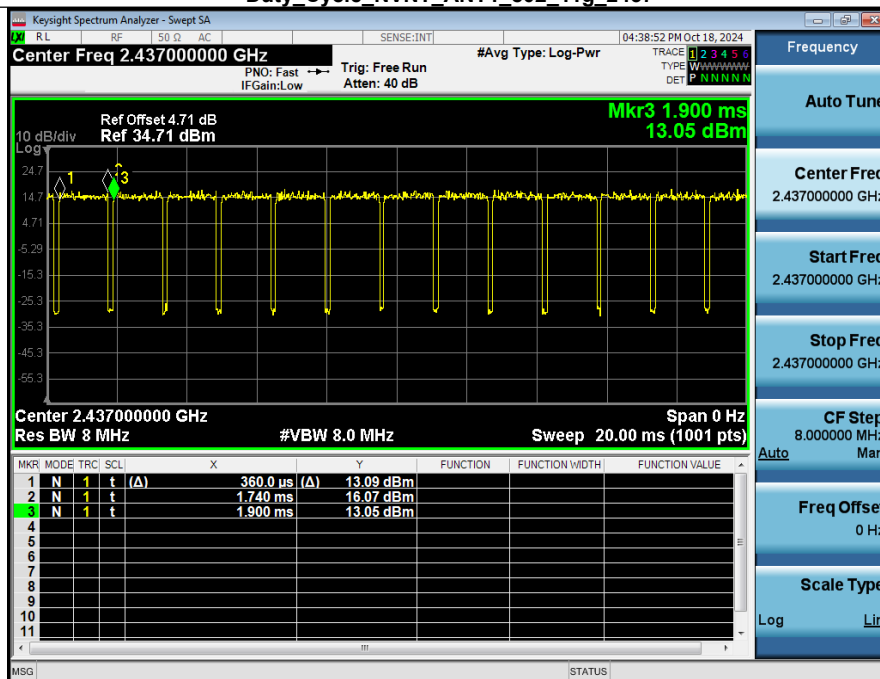
Duty Cycle NVNT_ANT1_802_11b_2462



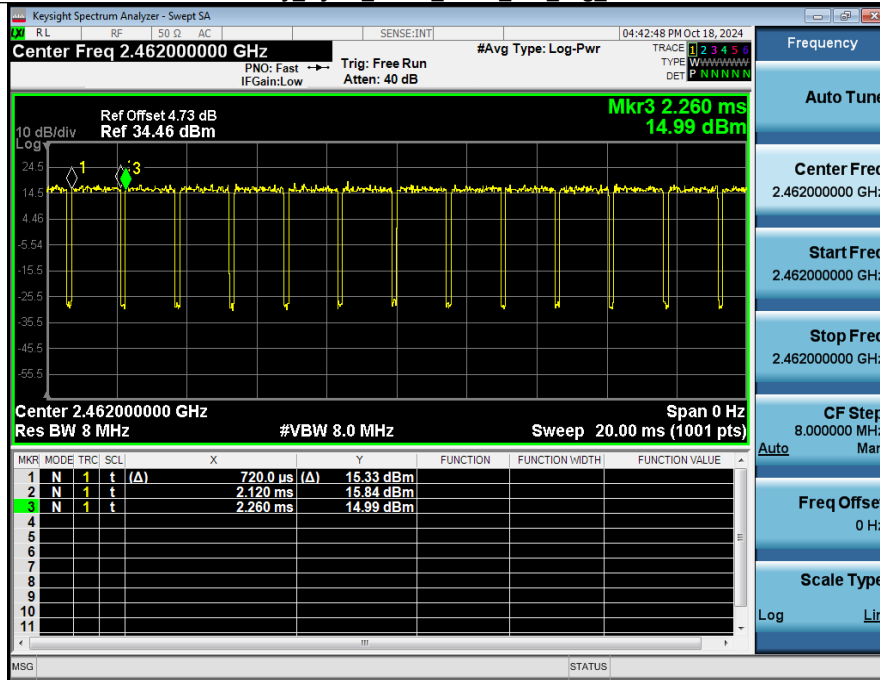
Duty Cycle NVNT_ANT1_802_11g_2412



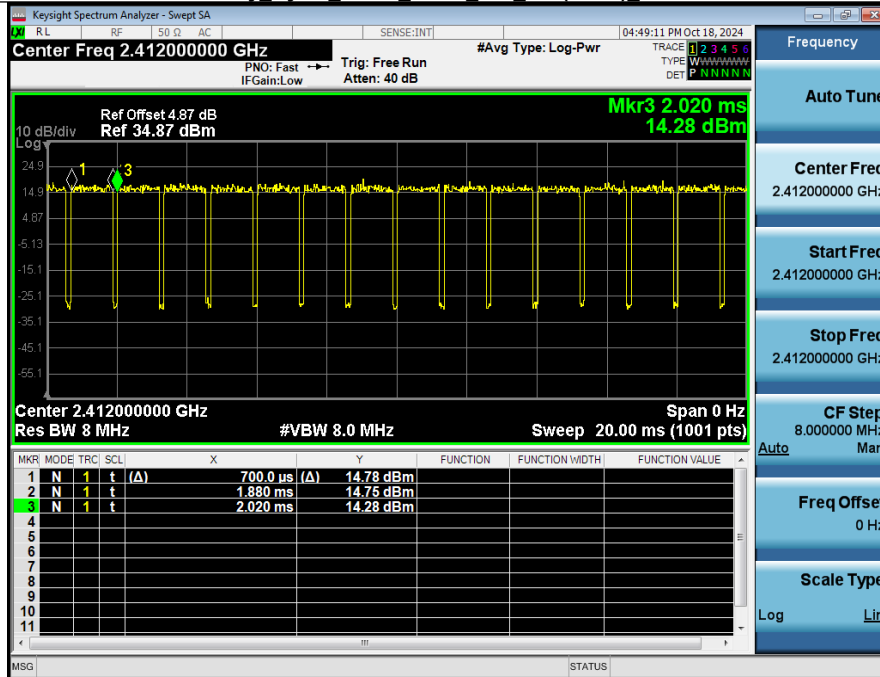
Duty Cycle NVNT_ANT1_802_11g_2437



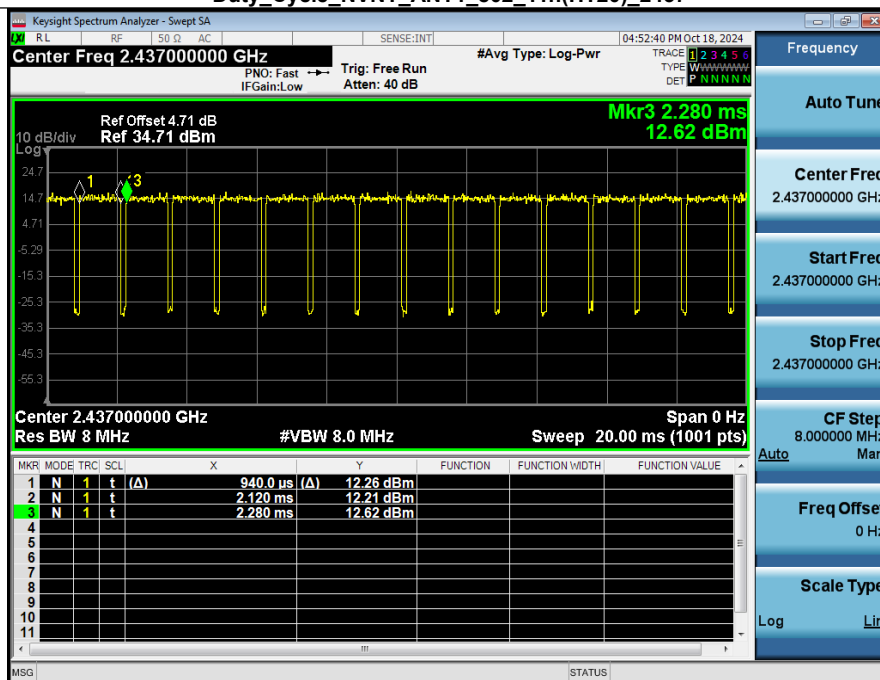
Duty Cycle NVNT_ANT1_802_11g_2462



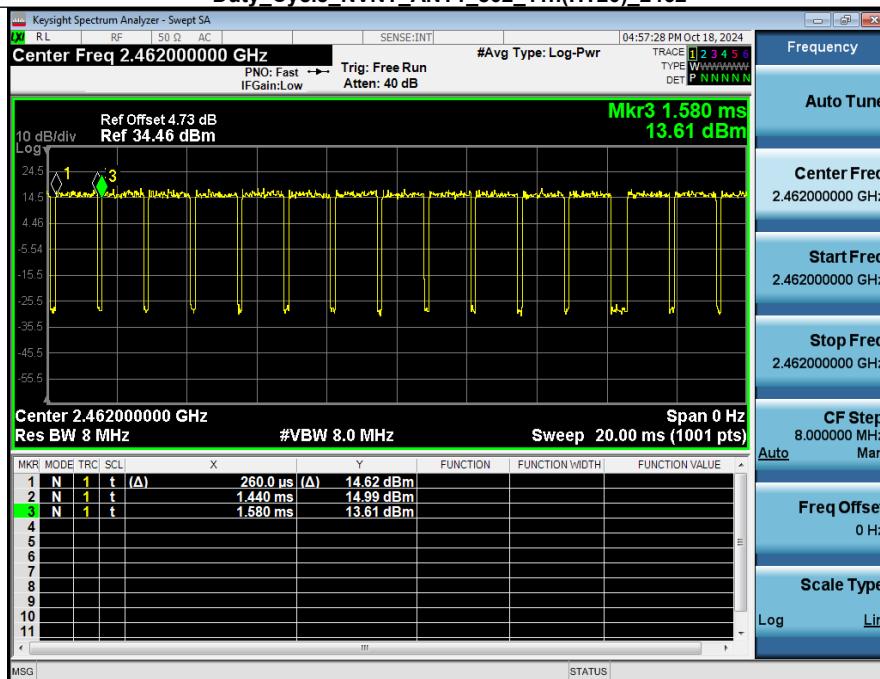
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



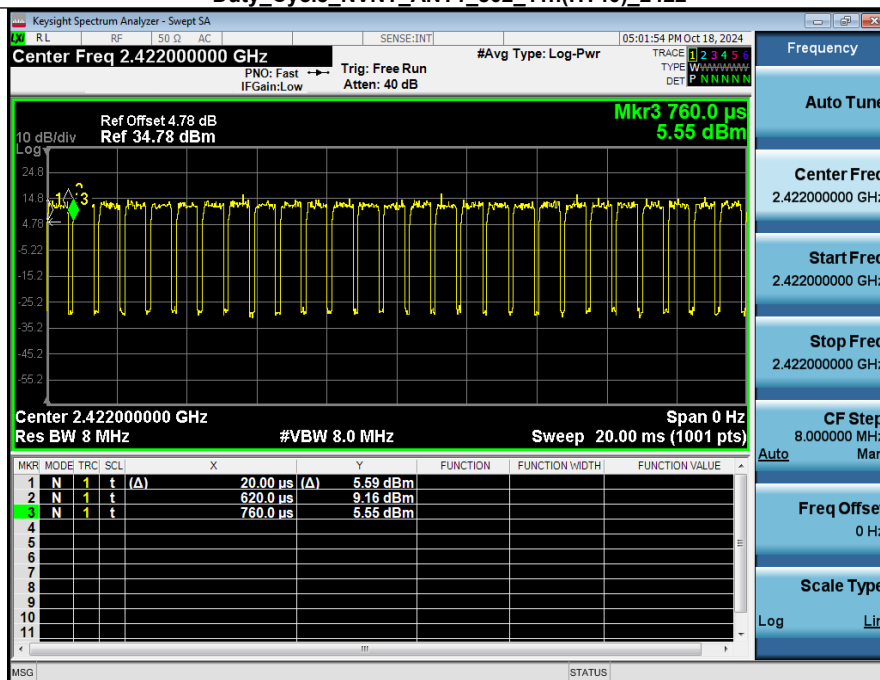
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



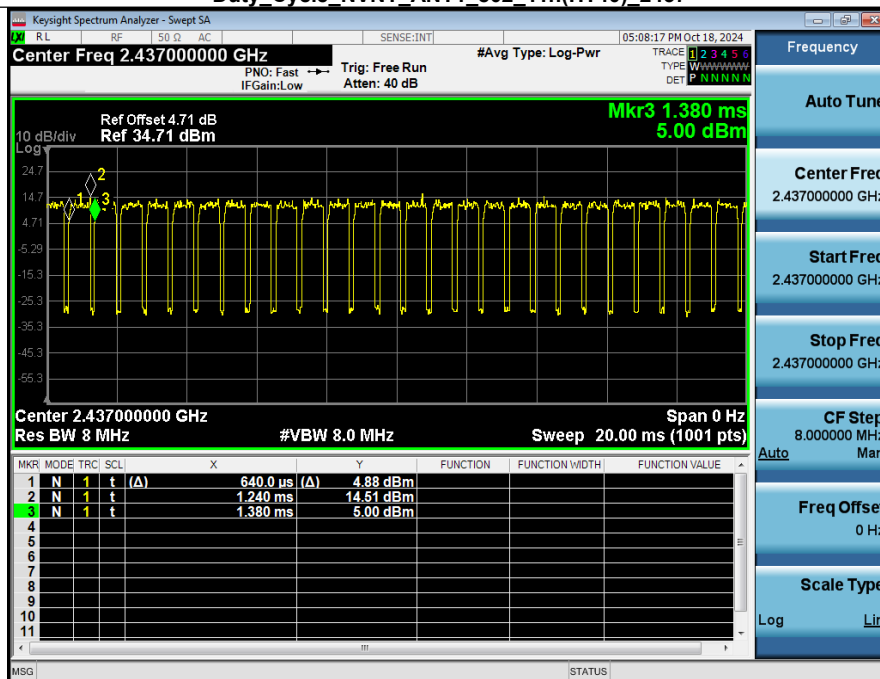
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



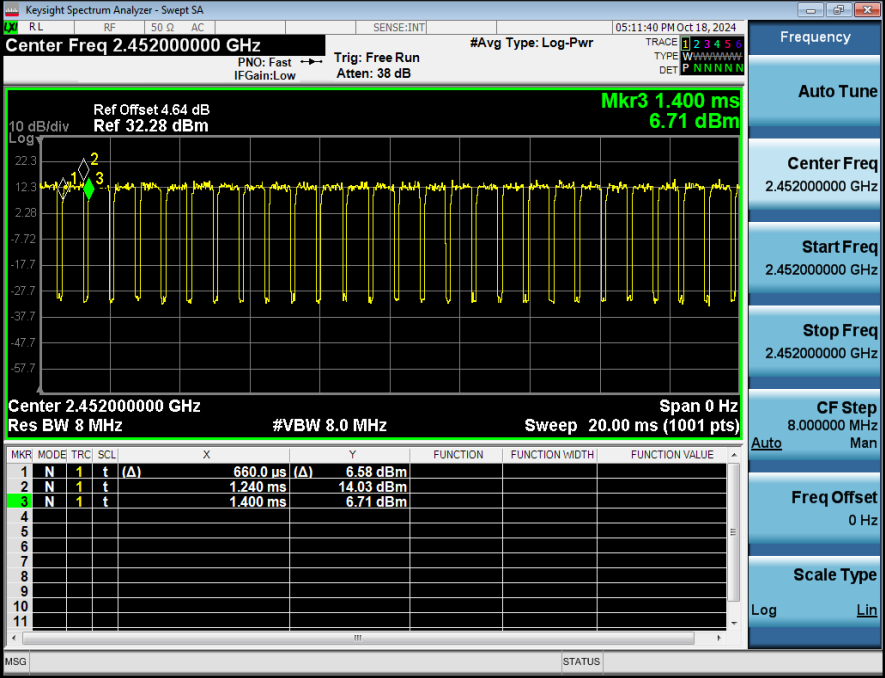
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437

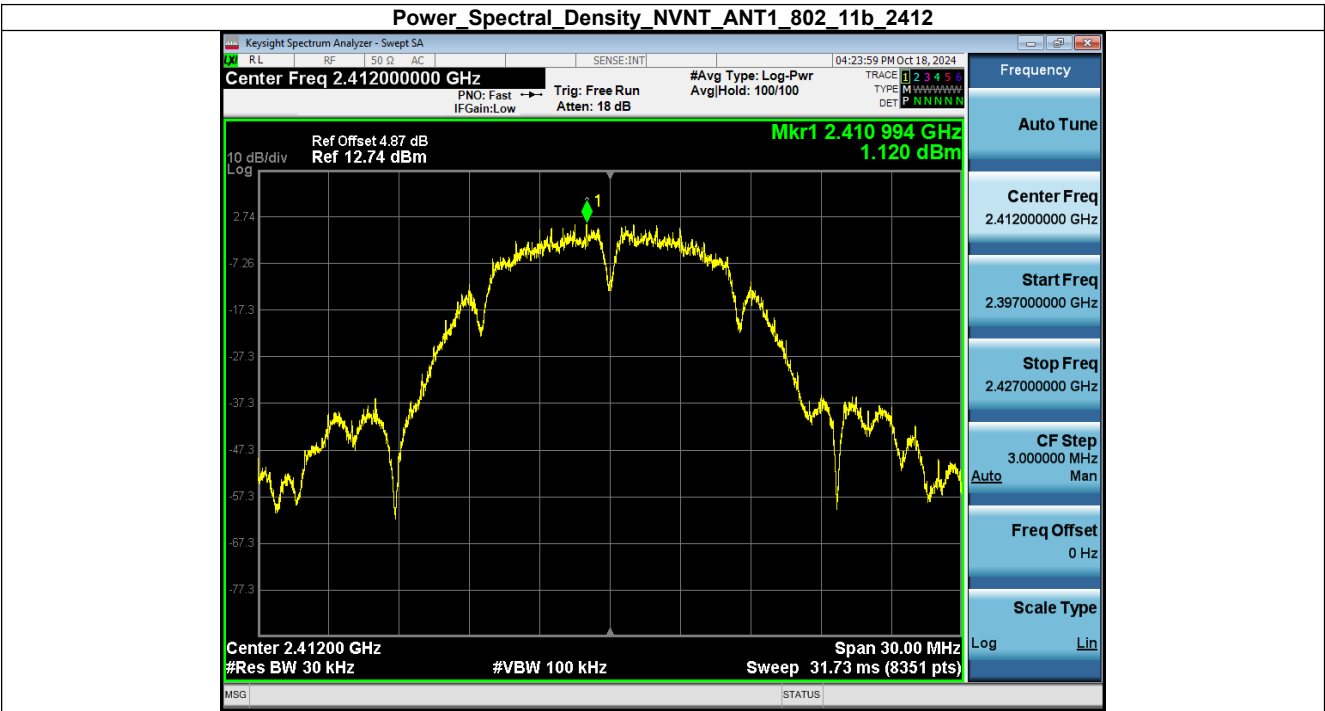


Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.12	-10.00	-8.88	8	Pass
NVNT	ANT1	802.11b	2437.00	0.50	-10.00	-9.50	8	Pass
NVNT	ANT1	802.11b	2462.00	0.38	-10.00	-9.62	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.63	-10.00	-11.63	8	Pass
NVNT	ANT1	802.11g	2437.00	-4.20	-10.00	-14.20	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.76	-10.00	-12.76	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.36	-10.00	-13.36	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.07	-10.00	-15.07	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.58	-10.00	-13.58	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.06	-10.00	-17.06	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-7.71	-10.00	-17.71	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-6.88	-10.00	-16.88	8	Pass



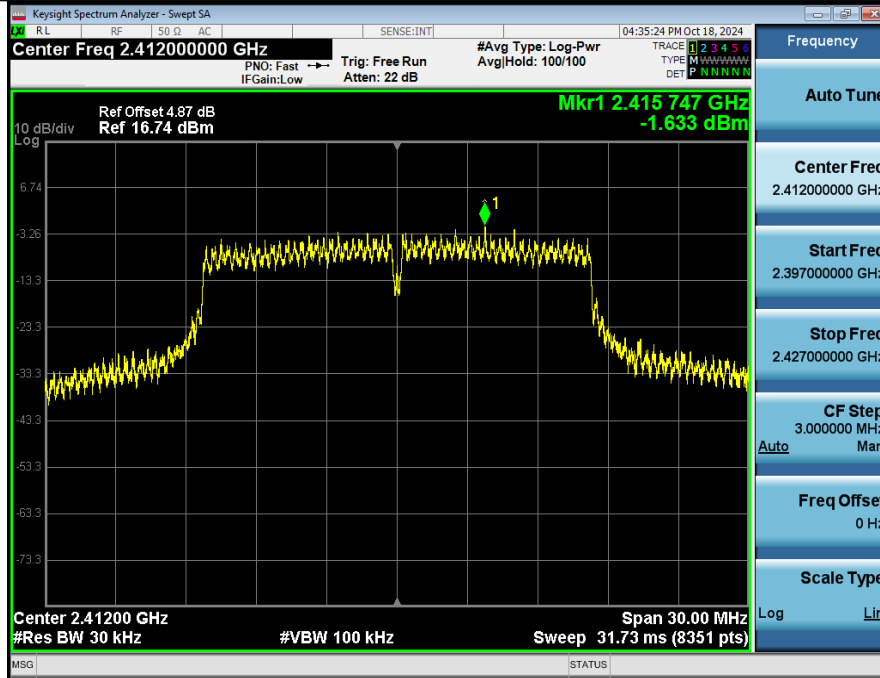
Power Spectral Density NVNT_ANT1_802_11b_2437



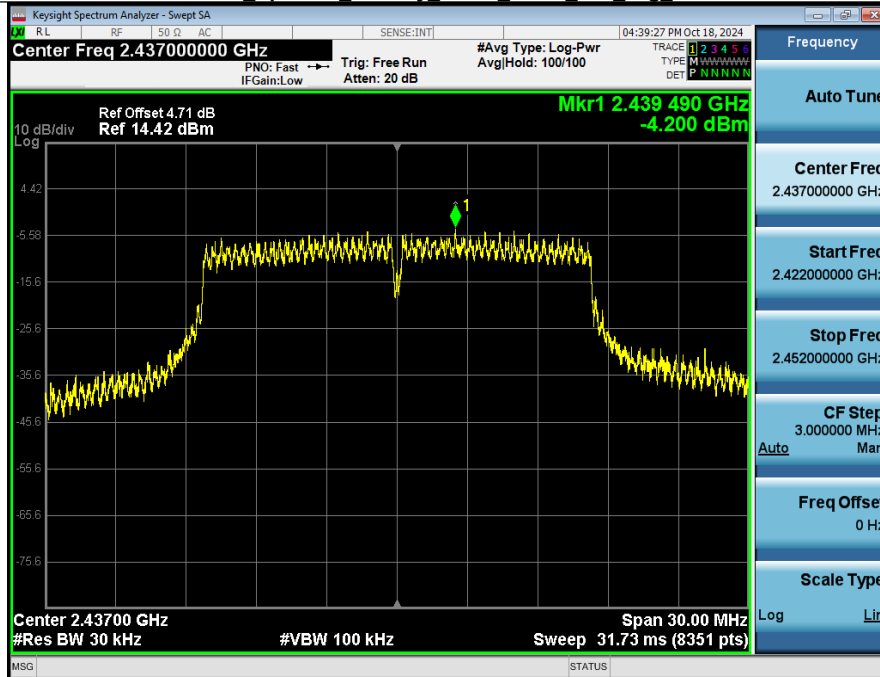
Power Spectral Density NVNT_ANT1_802_11b_2462



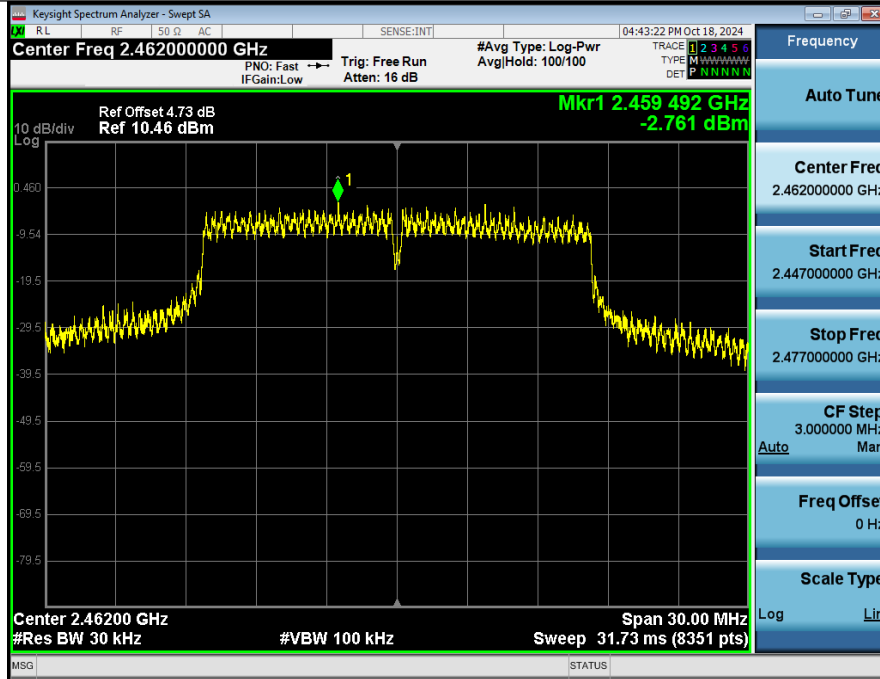
Power Spectral Density NVNT_ANT1_802_11g_2412



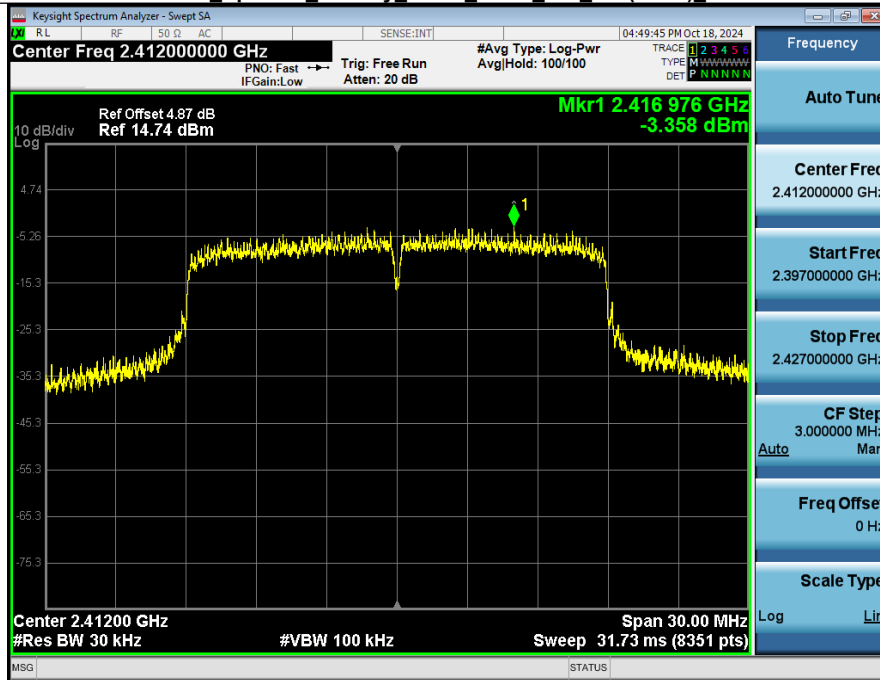
Power Spectral Density NVNT_ANT1_802_11g_2437



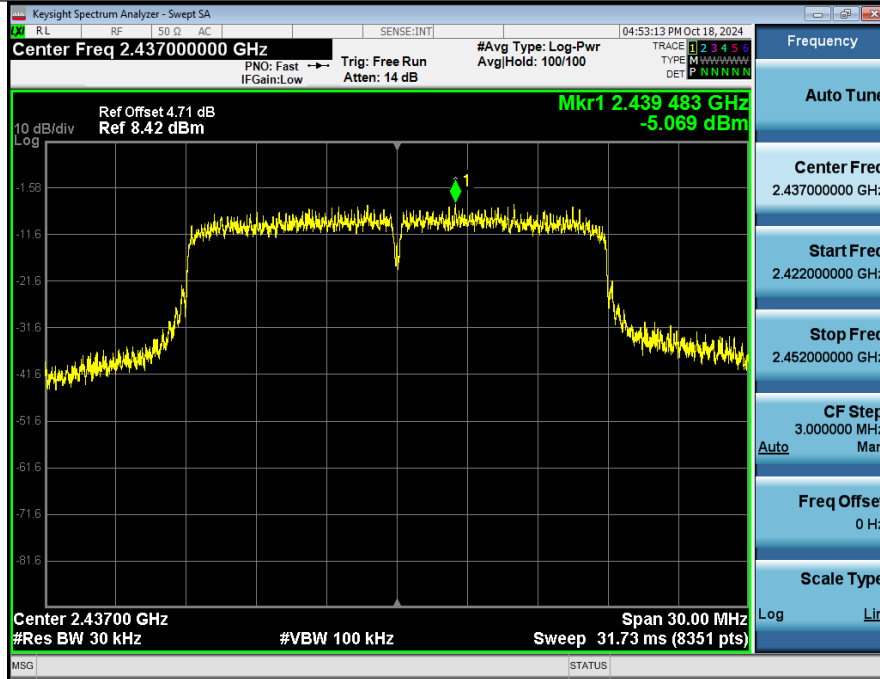
Power Spectral Density_NVNT_ANT1_802_11g_2462



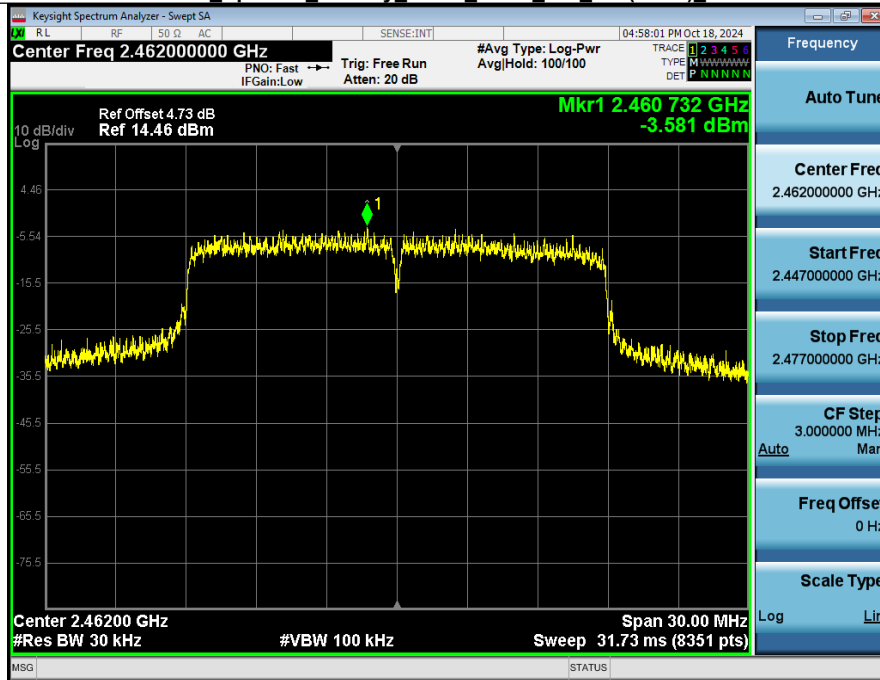
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437



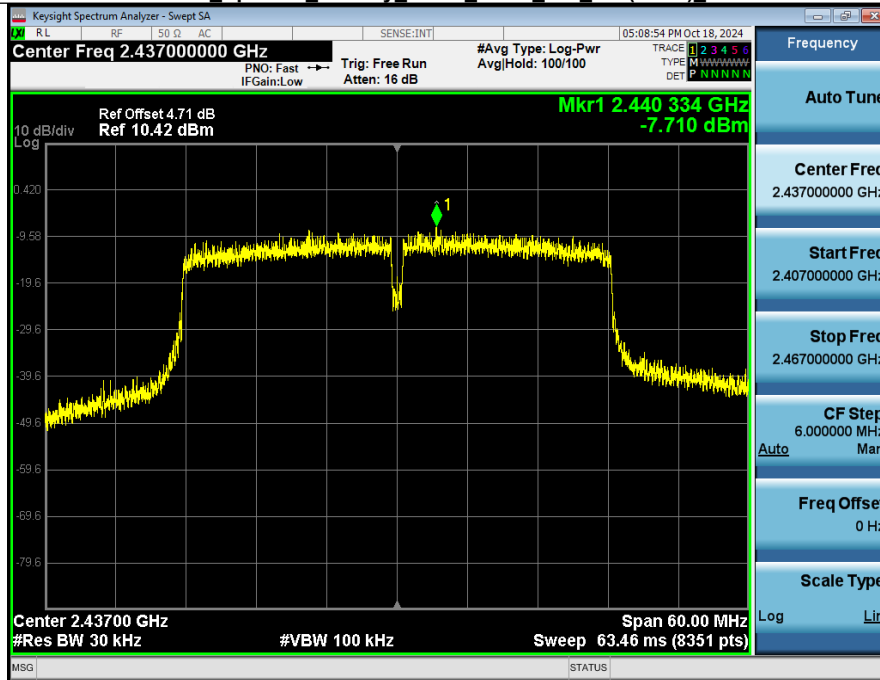
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2462



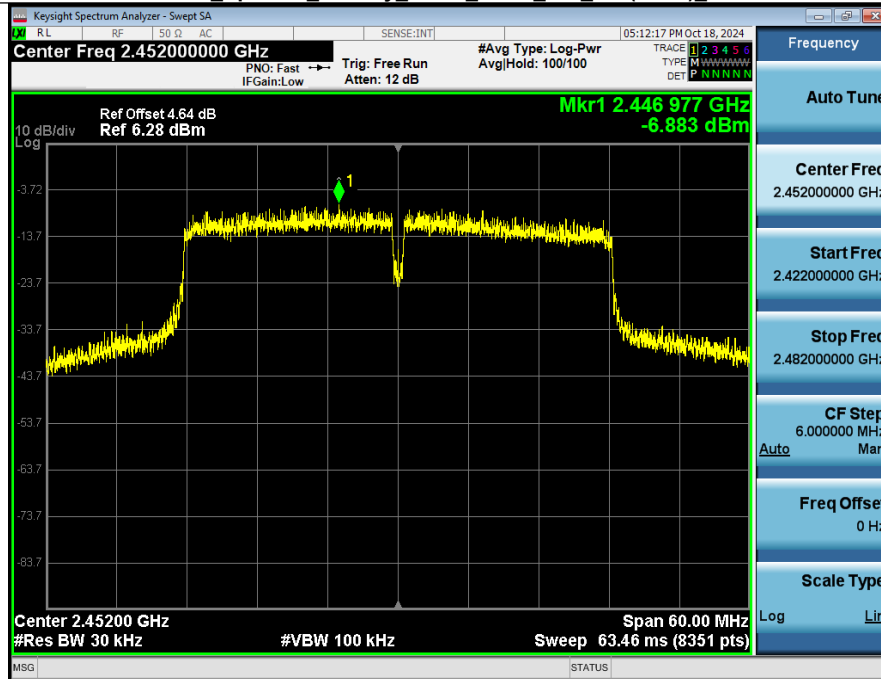
Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2437

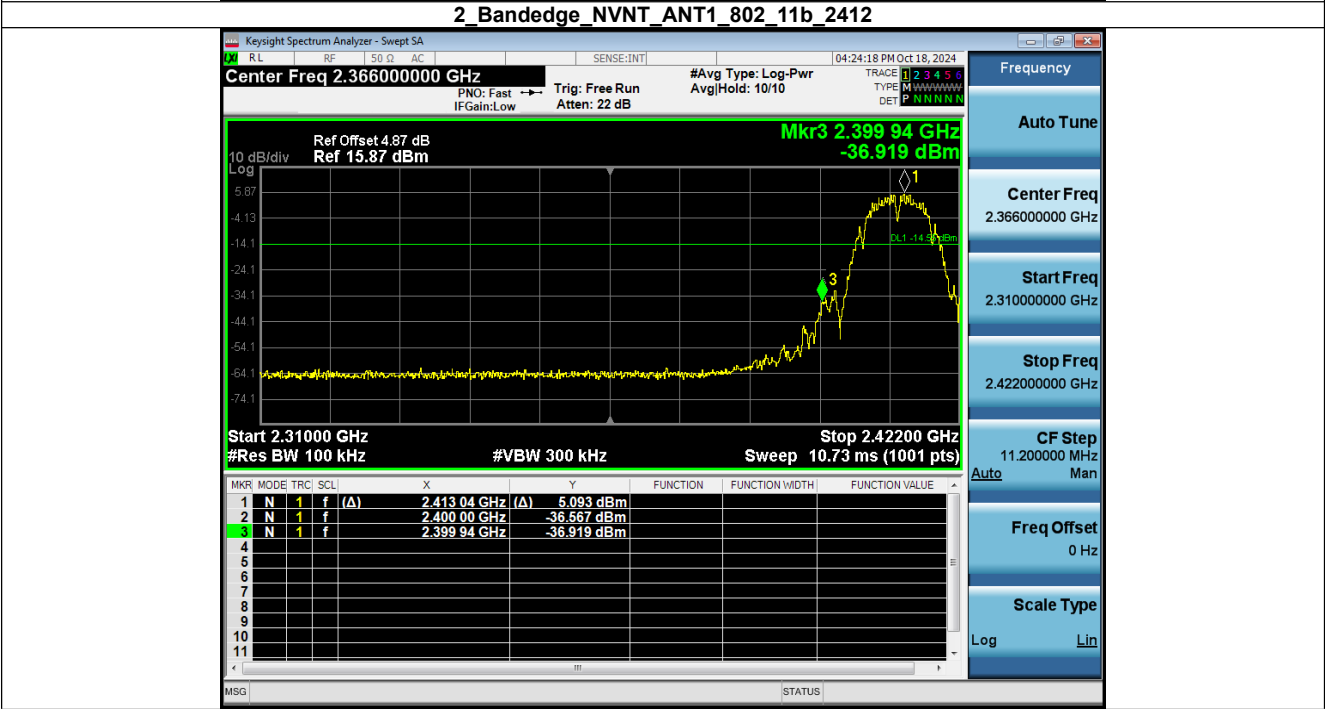


Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2452



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-36.919	-14.549	Pass
NVNT	ANT1	802.11b	2462.00	2486.560	-56.679	-15.664	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	-22.026	-17.878	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-37.566	-18.347	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-27.430	-19.213	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	-37.647	-19.163	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-33.118	-22.317	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.836	-34.612	-21.968	Pass



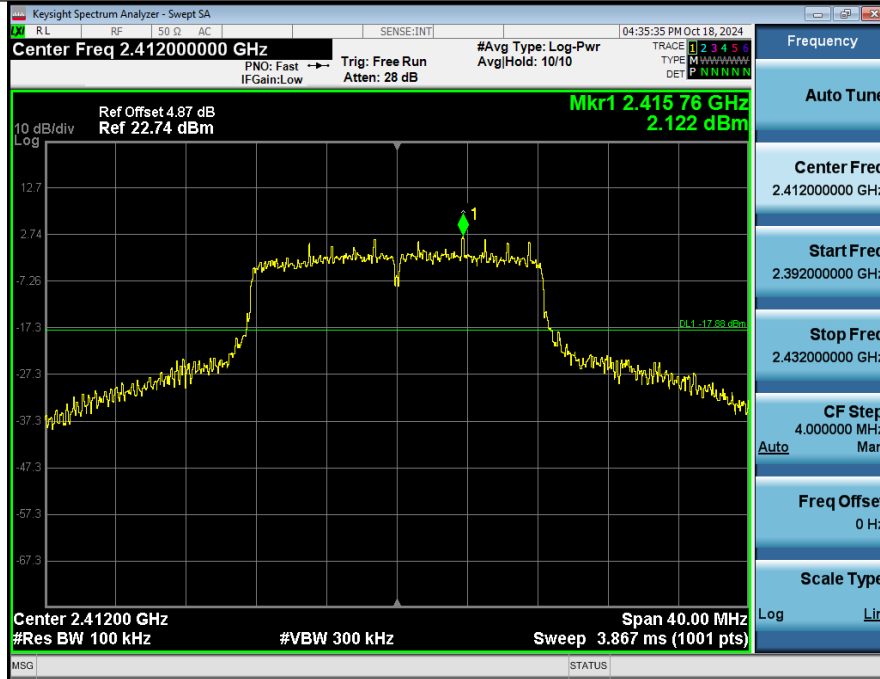
1 Reference Level_NVNT_ANT1_802_11b_2462



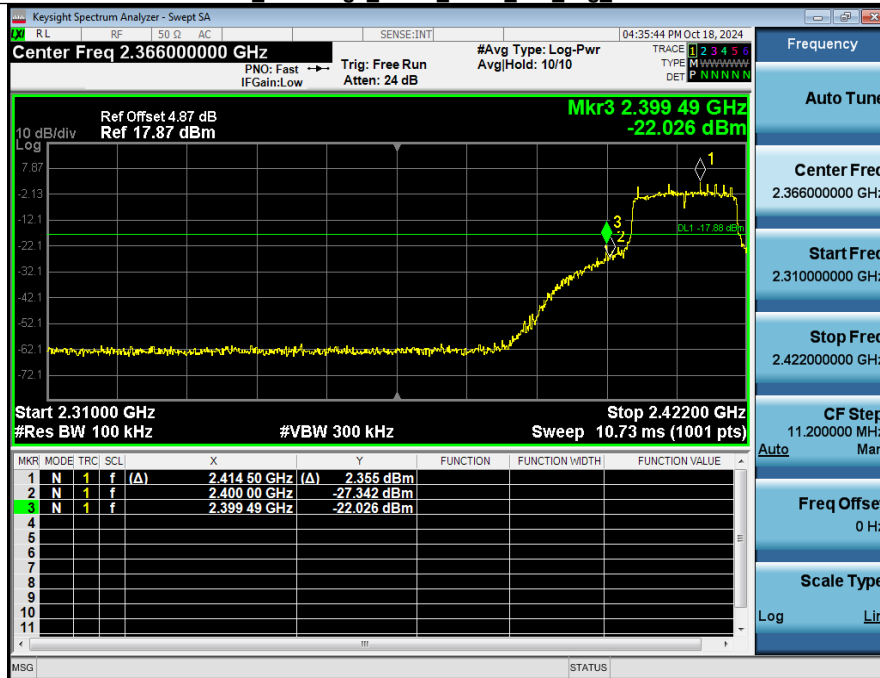
2 Bandedge_NVNT_ANT1_802_11b_2462



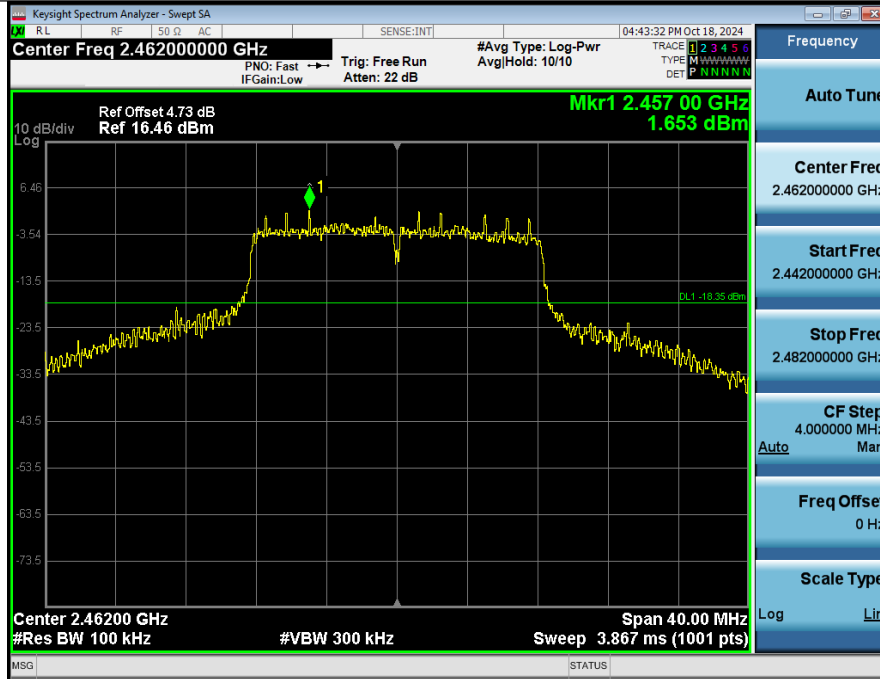
1 Reference Level_NVNT_ANT1_802_11g_2412



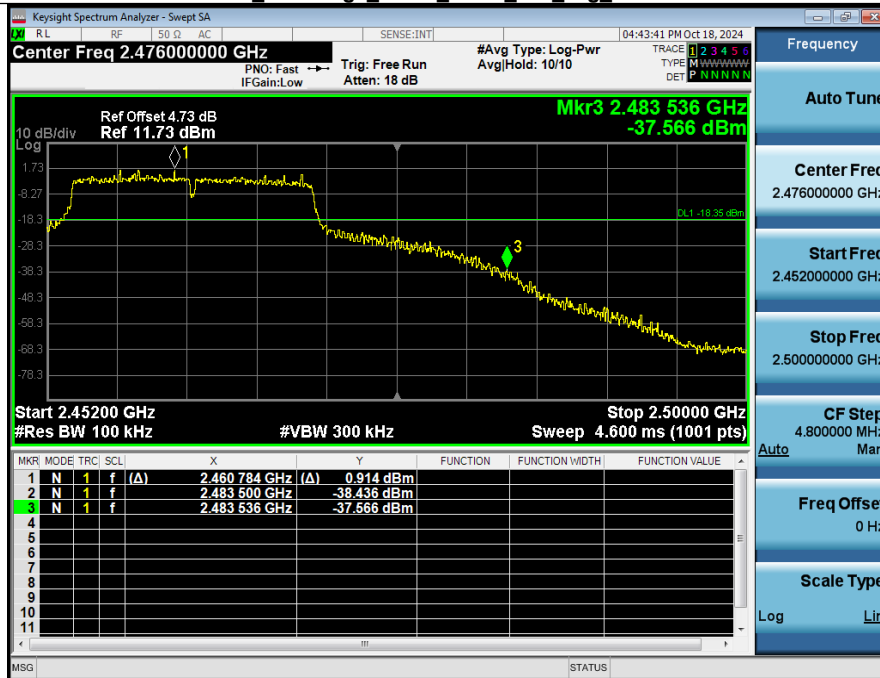
2 Bandedge_NVNT_ANT1_802_11g_2412



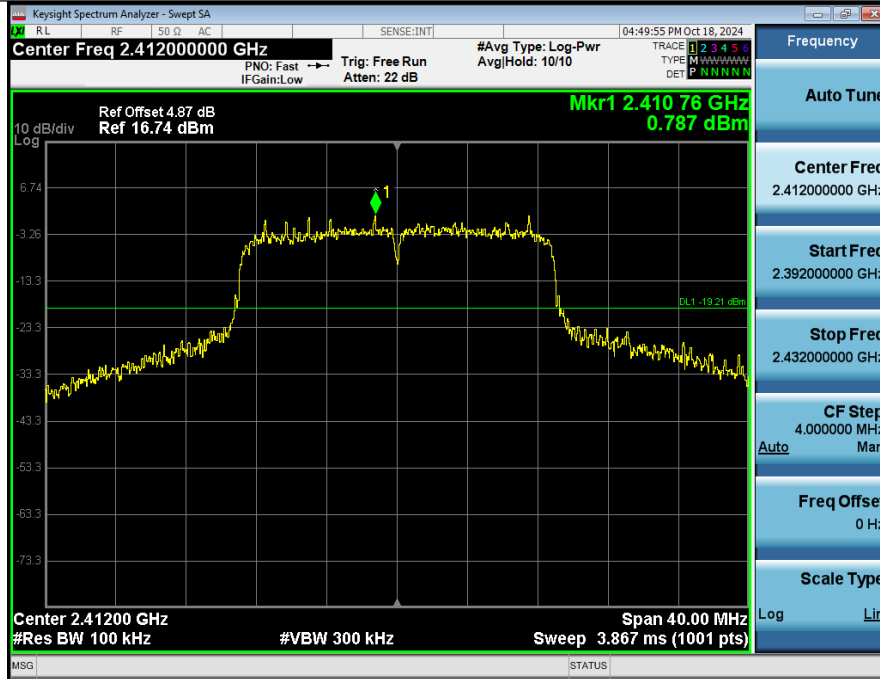
1 Reference Level_NVNT_ANT1_802_11g_2462



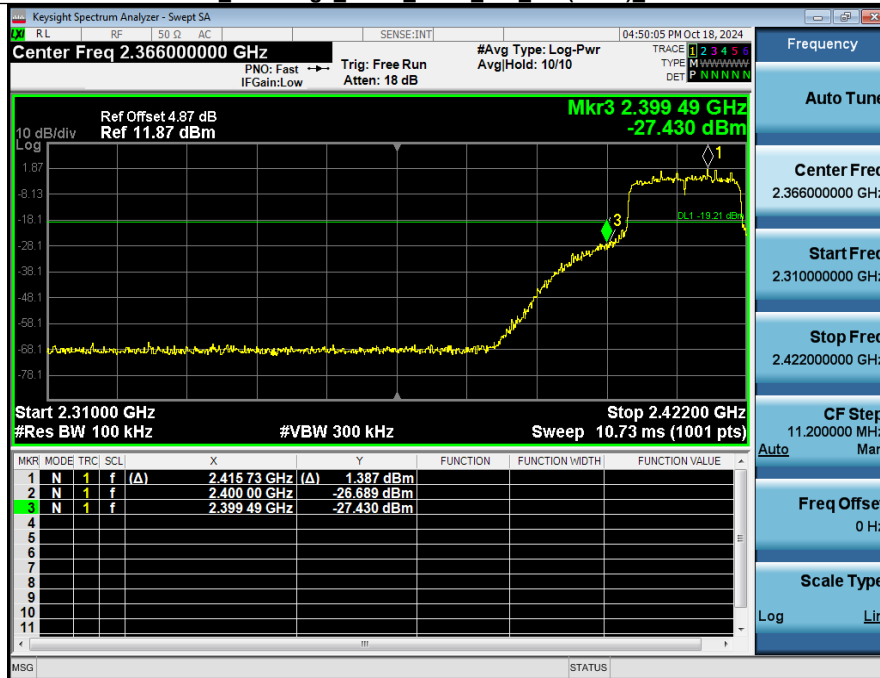
2 Bandedge_NVNT_ANT1_802_11g_2462



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



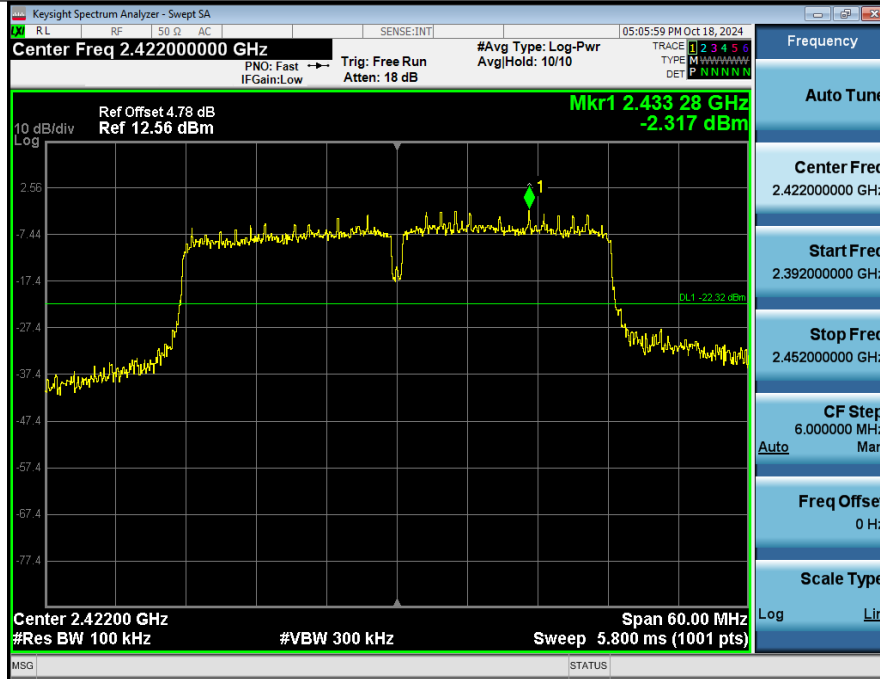
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



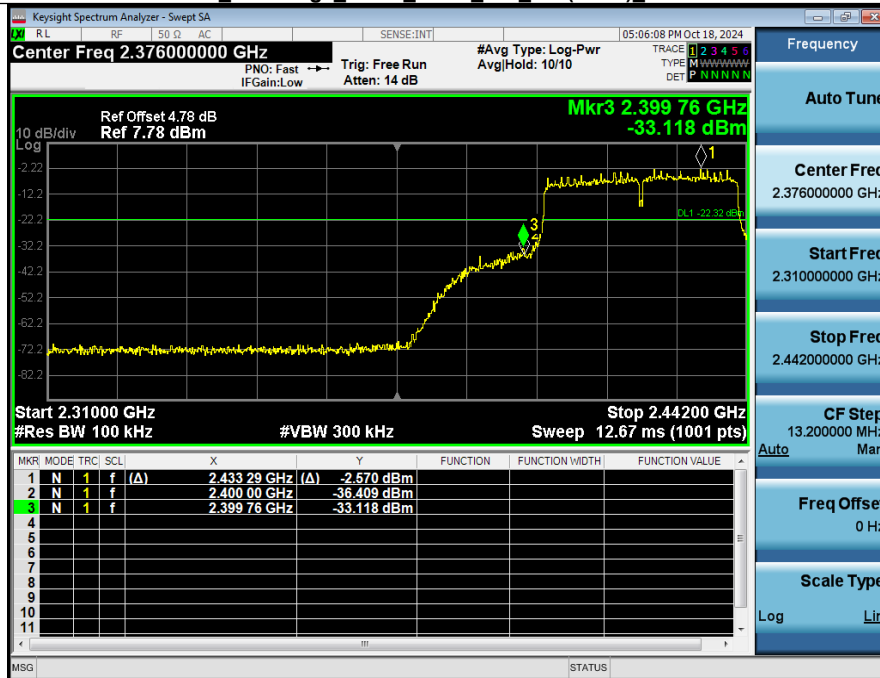
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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

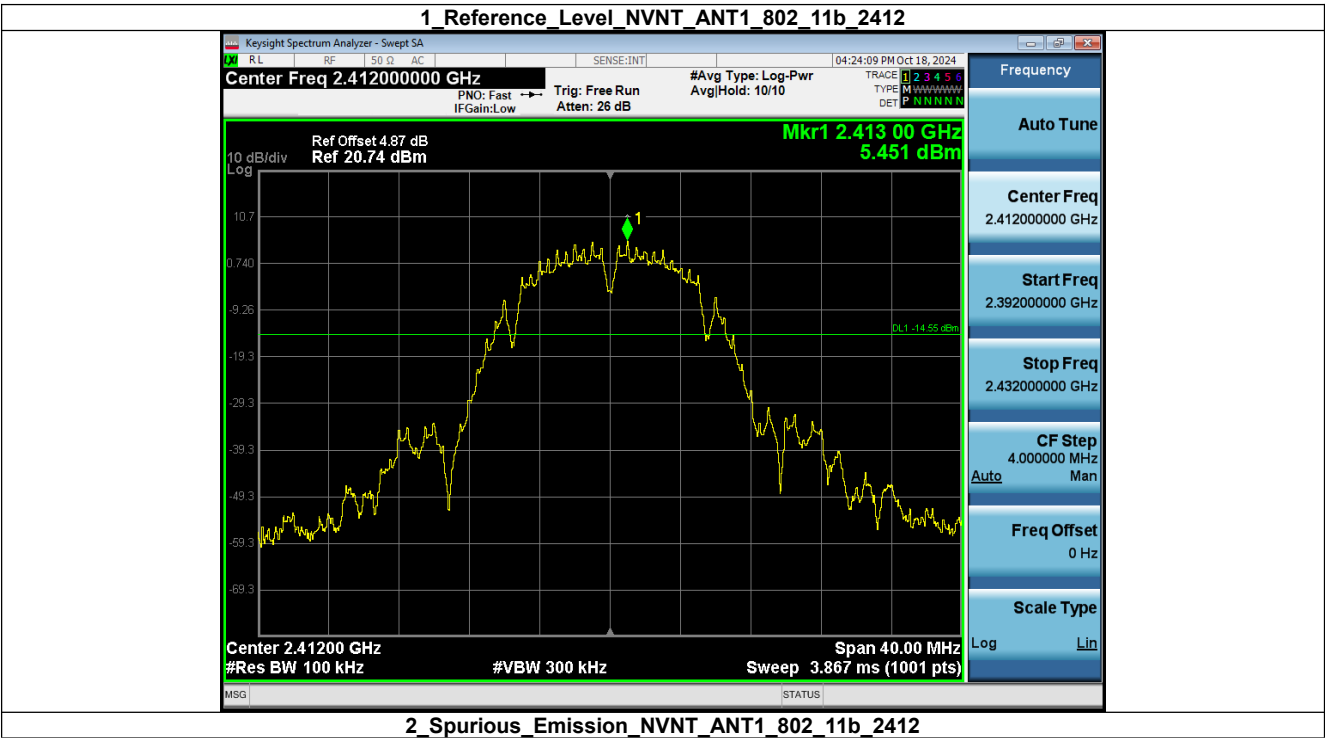


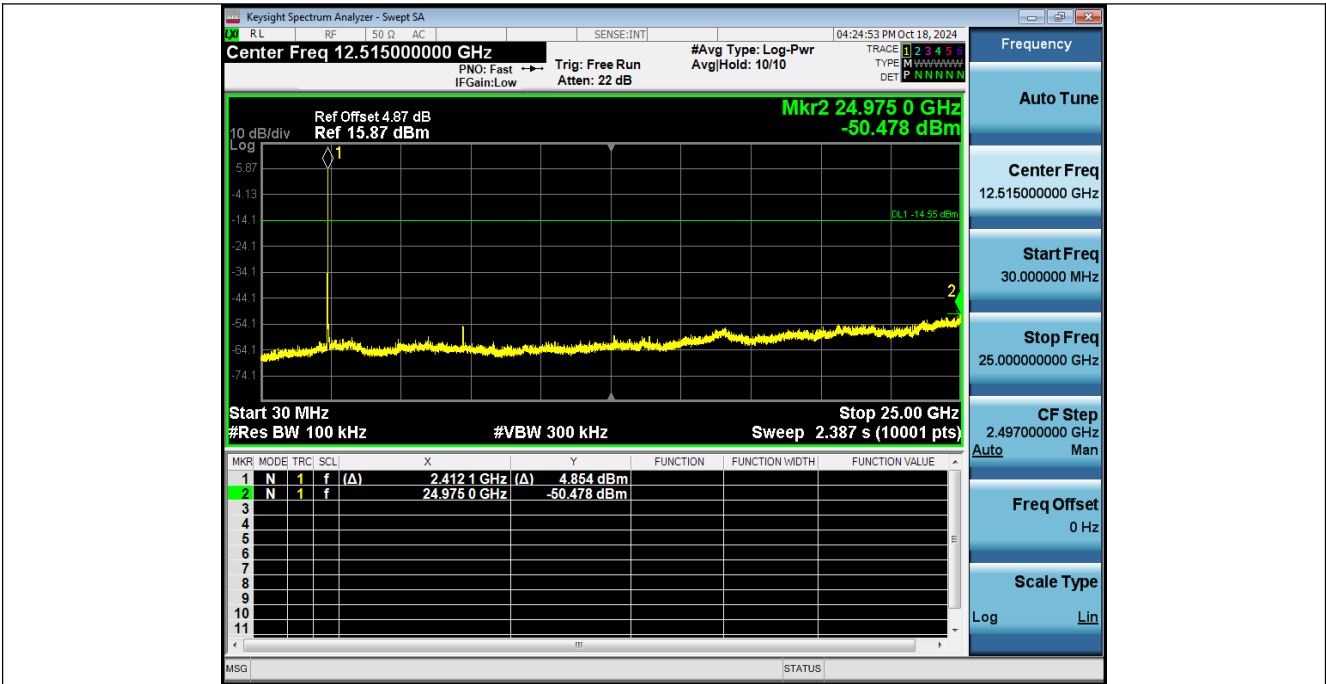
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



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	24975.030	-50.478	-14.549	Pass
NVNT	ANT1	802.11b	2437.00	24987.515	-53.059	-17.039	Pass
NVNT	ANT1	802.11b	2462.00	24985.018	-46.112	-15.664	Pass
NVNT	ANT1	802.11g	2412.00	24952.557	-48.677	-17.878	Pass
NVNT	ANT1	802.11g	2437.00	24975.030	-51.527	-19.837	Pass
NVNT	ANT1	802.11g	2462.00	24955.054	-54.573	-18.347	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24952.557	-54.430	-19.213	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24945.066	-57.160	-20.292	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24982.521	-54.970	-19.163	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24970.036	-59.342	-22.376	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24455.654	-59.601	-23.303	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24992.509	-52.573	-21.968	Pass

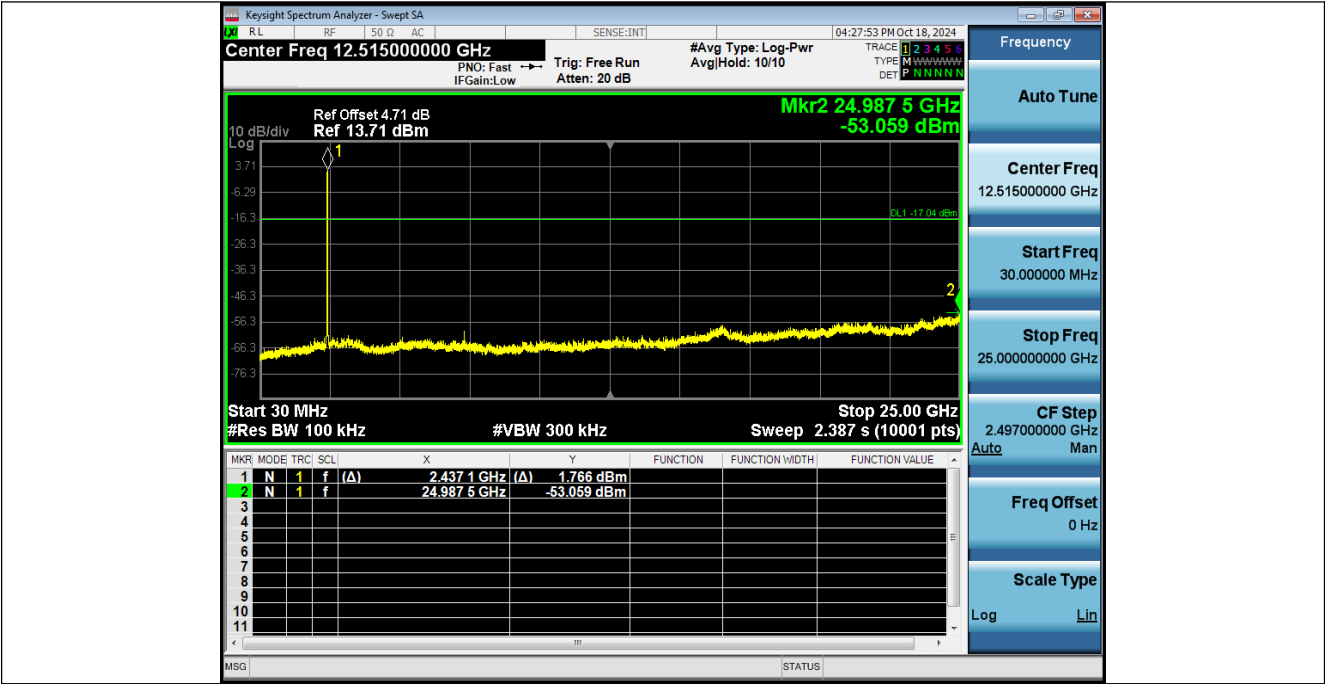




1 Reference Level NVNT_ANT1_802_11b_2437



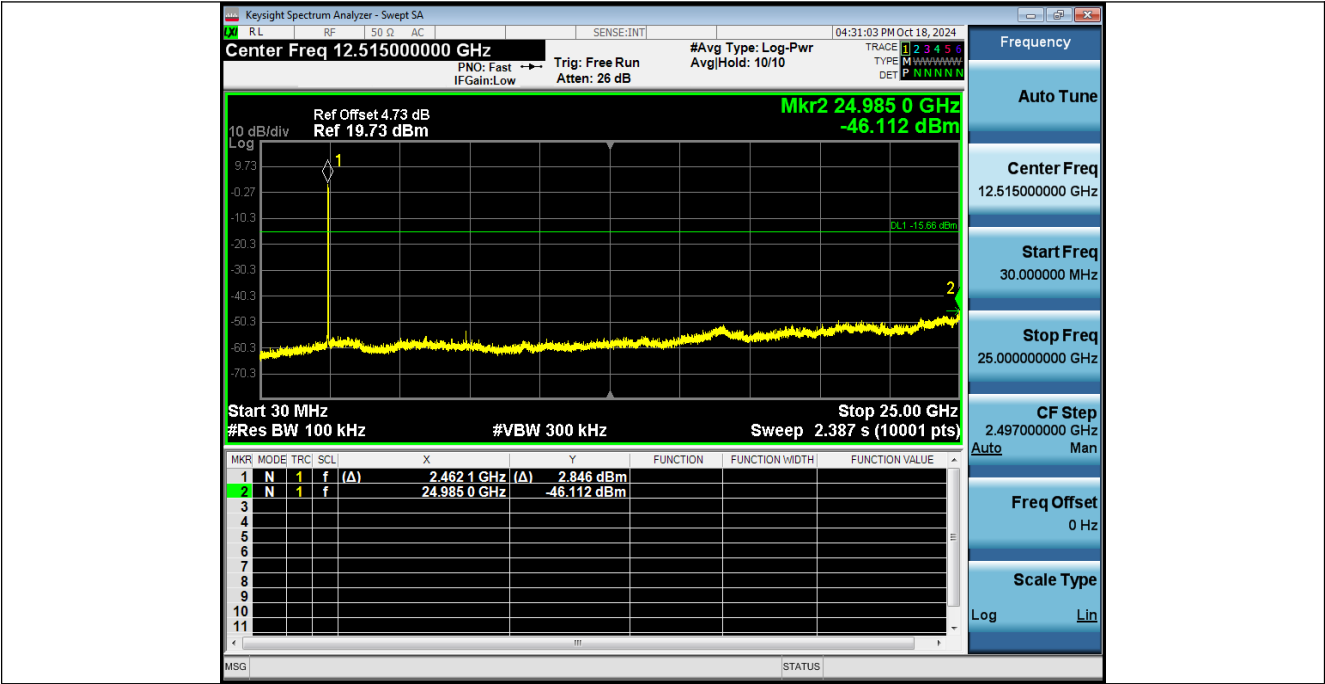
2 Spurious_Emission_NVNT_ANT1_802_11b_2437



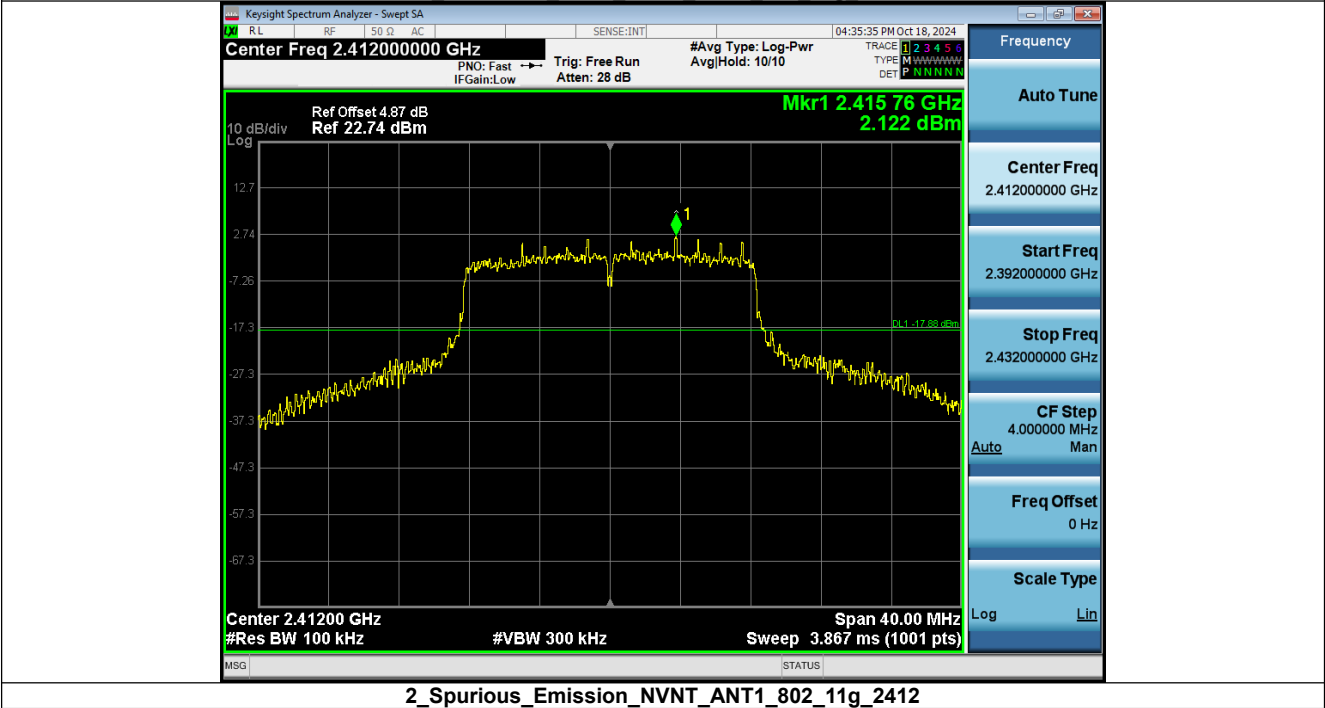
1 Reference Level NVNT_ANT1_802_11b_2462



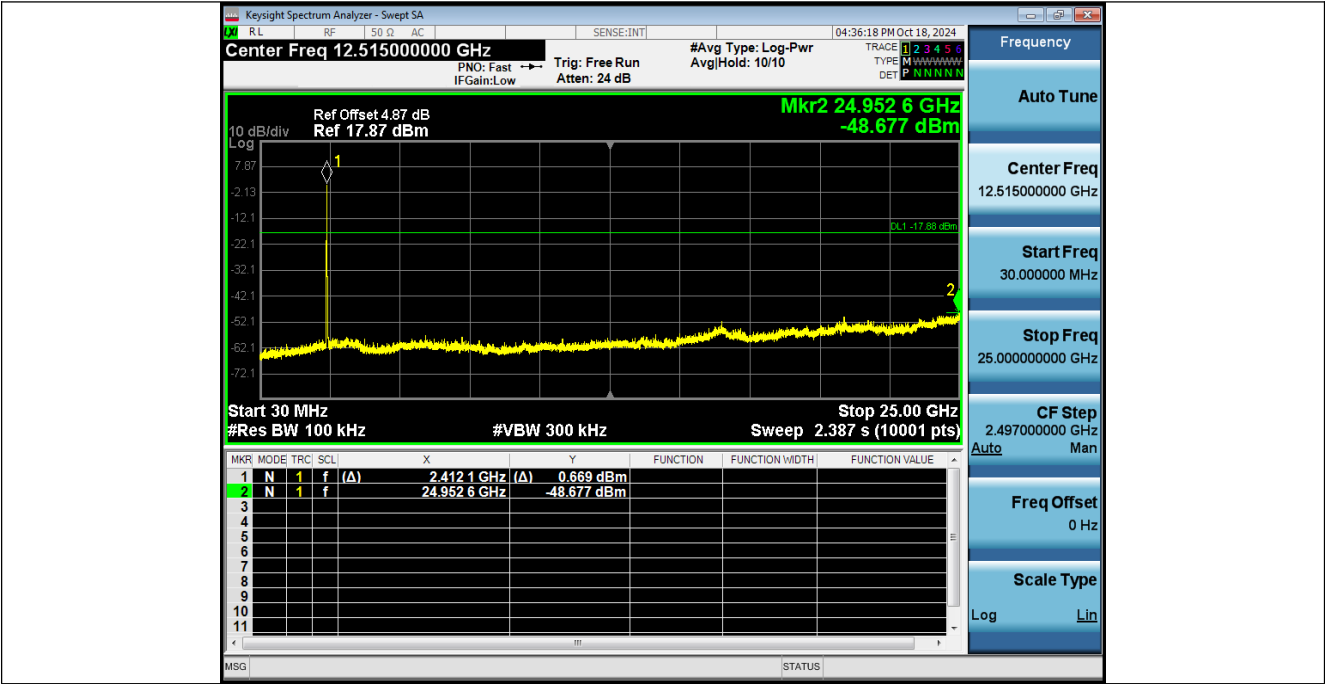
2 Spurious Emission NVNT_ANT1_802_11b_2462



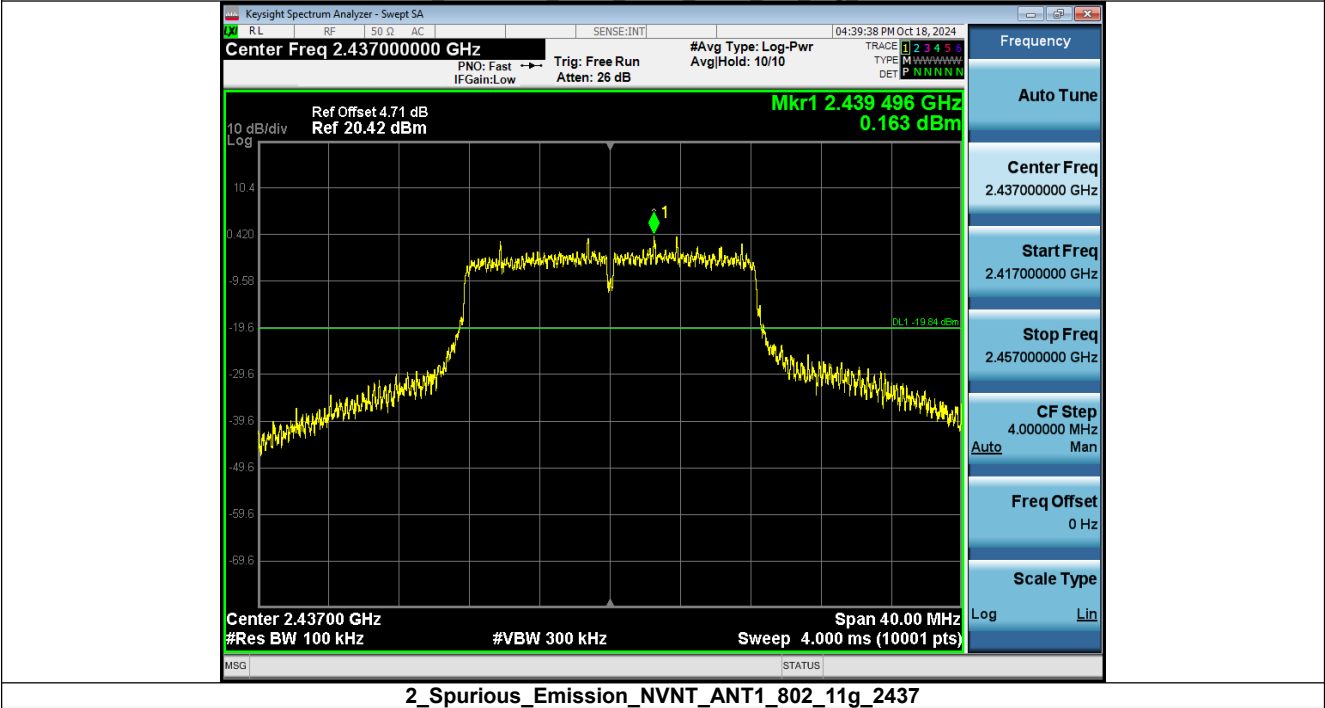
1 Reference Level NVNT_ANT1_802_11g_2412



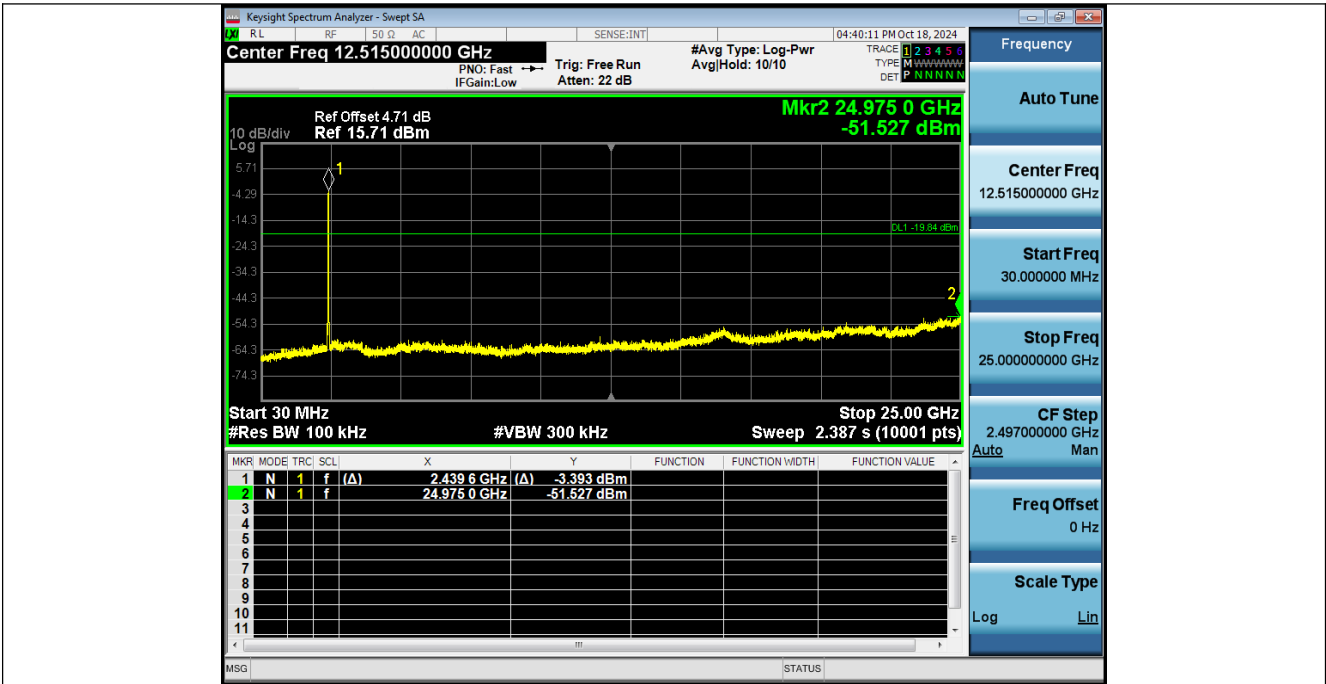
2 Spurious Emission NVNT_ANT1_802_11g_2412



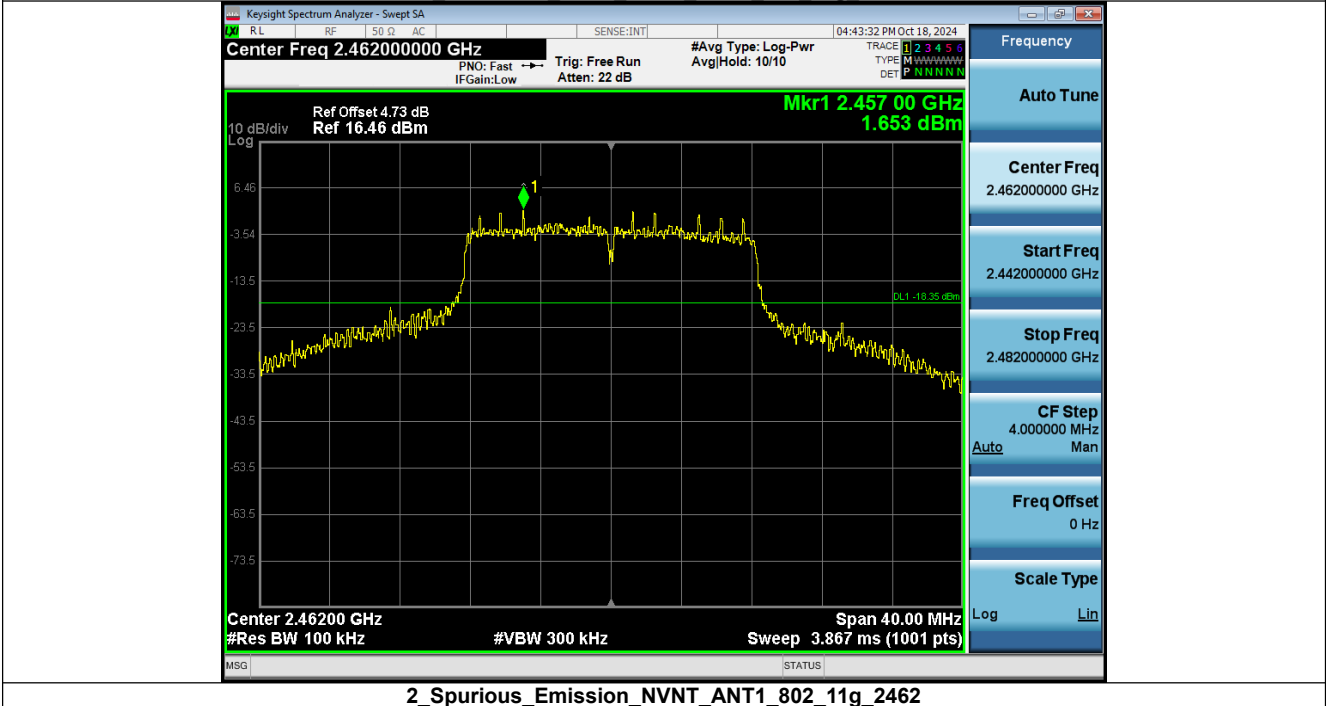
1 Reference Level NVNT_ANT1_802_11g_2437



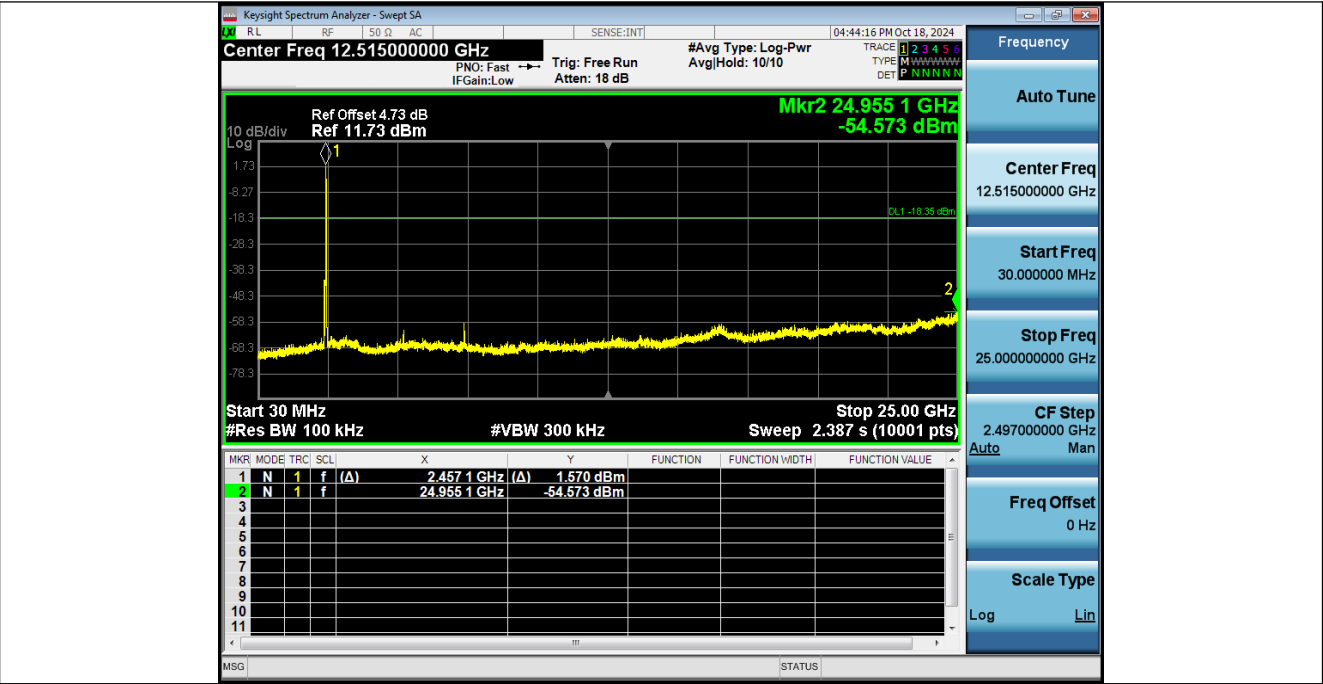
2 Spurious Emission NVNT_ANT1_802_11g_2437



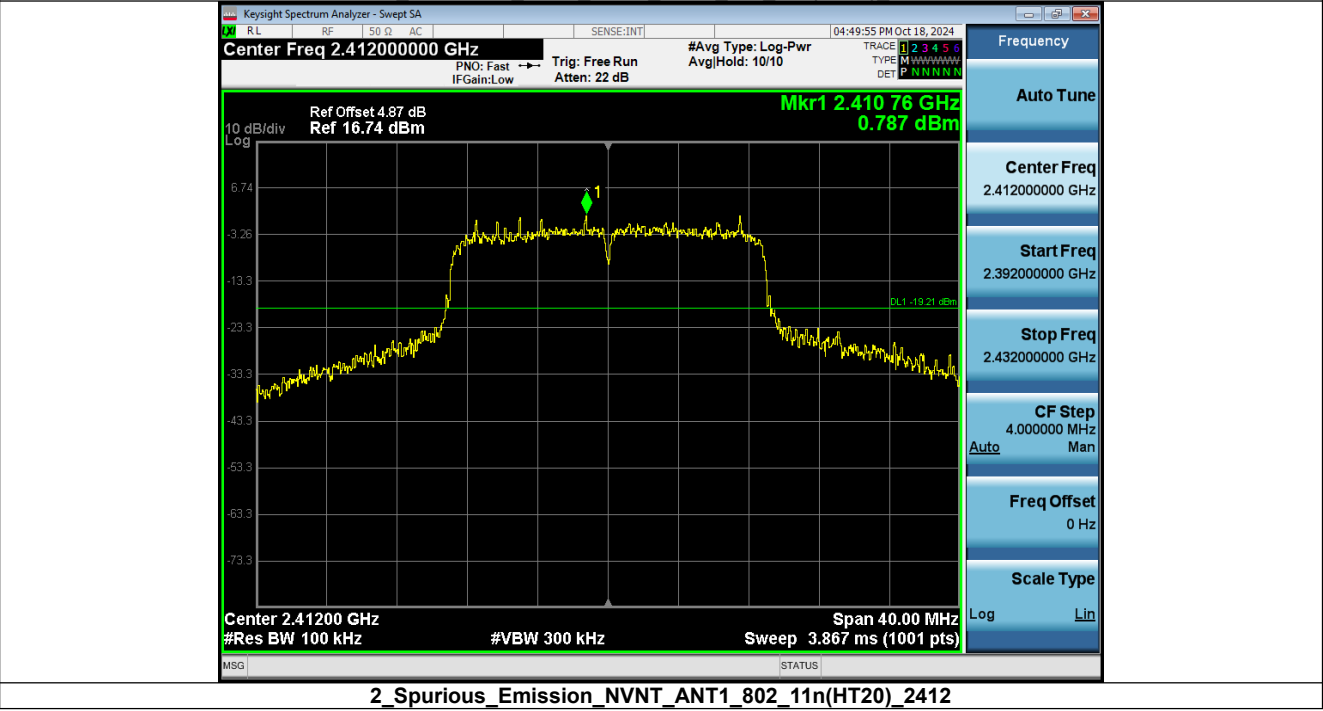
1 Reference Level NVNT_ANT1_802_11g_2462



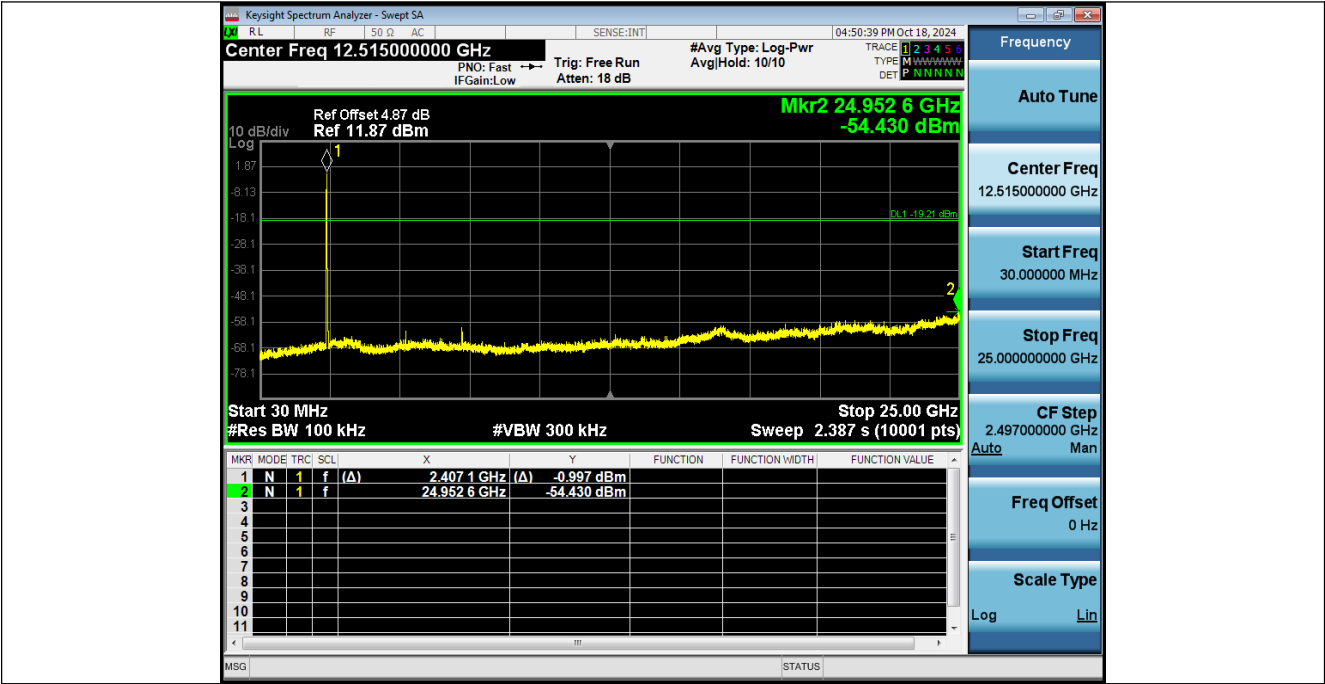
2 Spurious_Emission_NVNT_ANT1_802_11g_2462



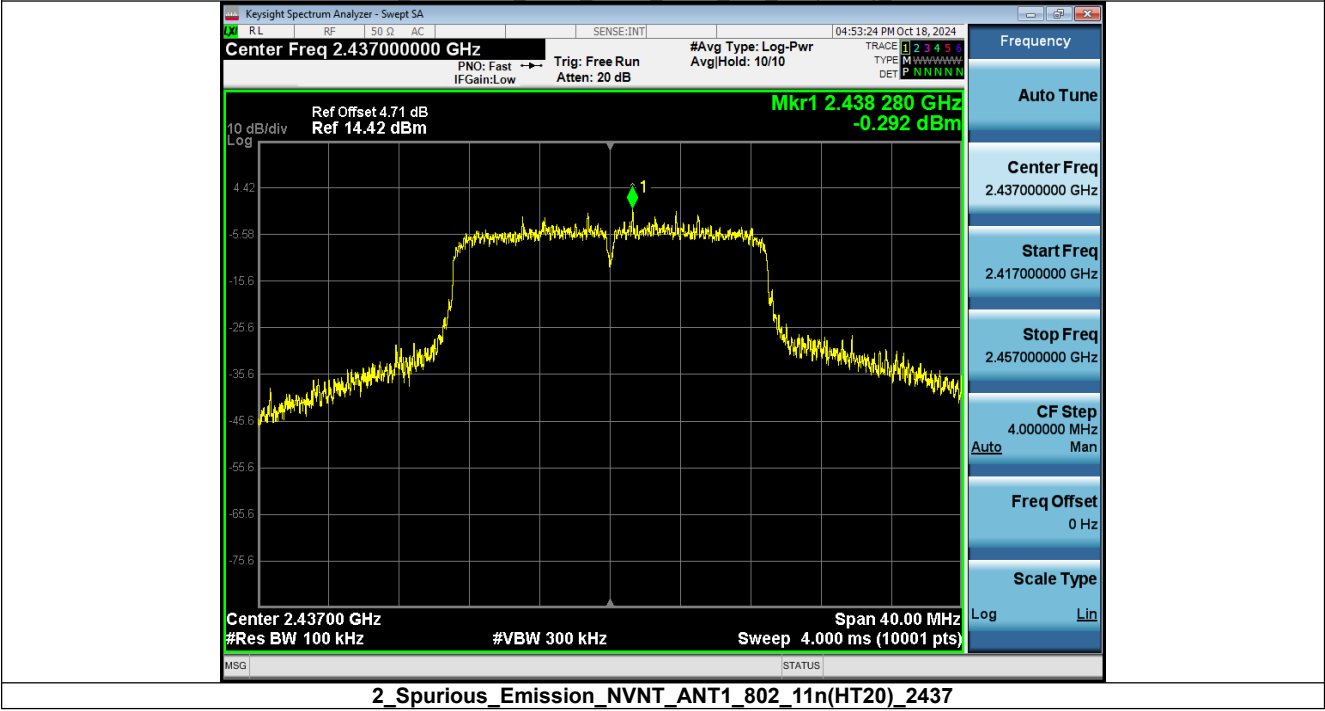
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



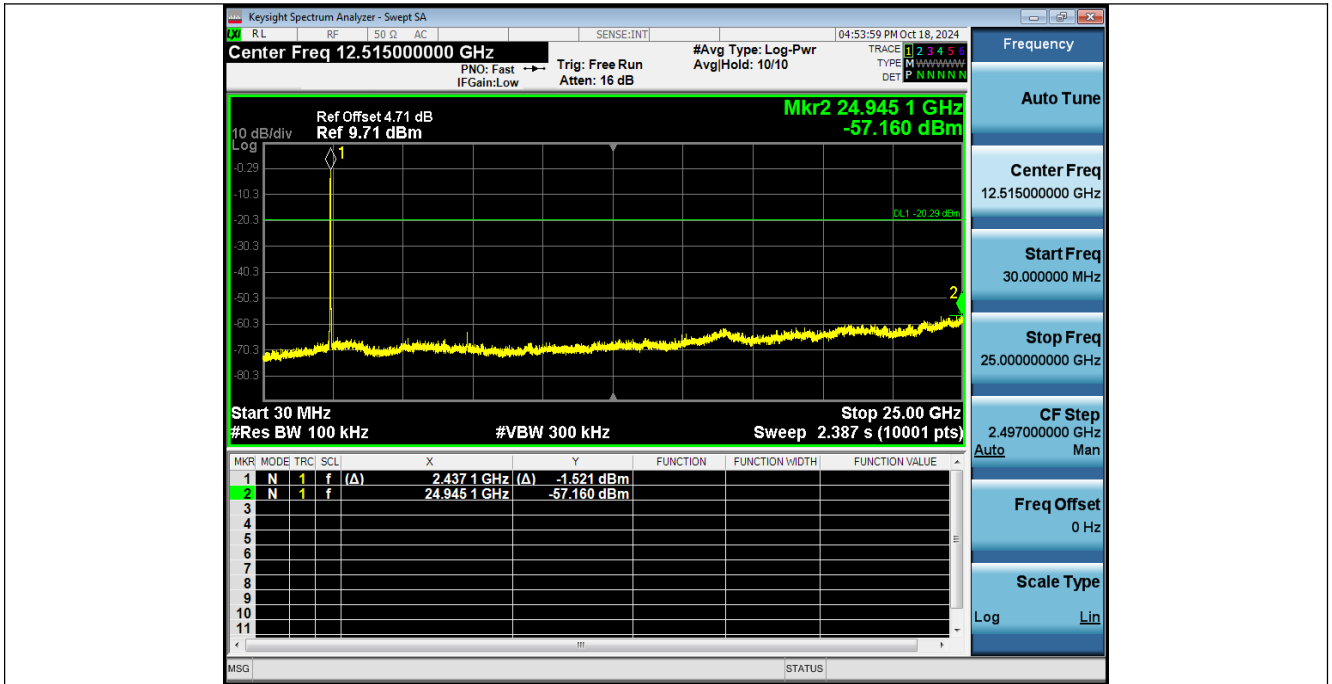
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412



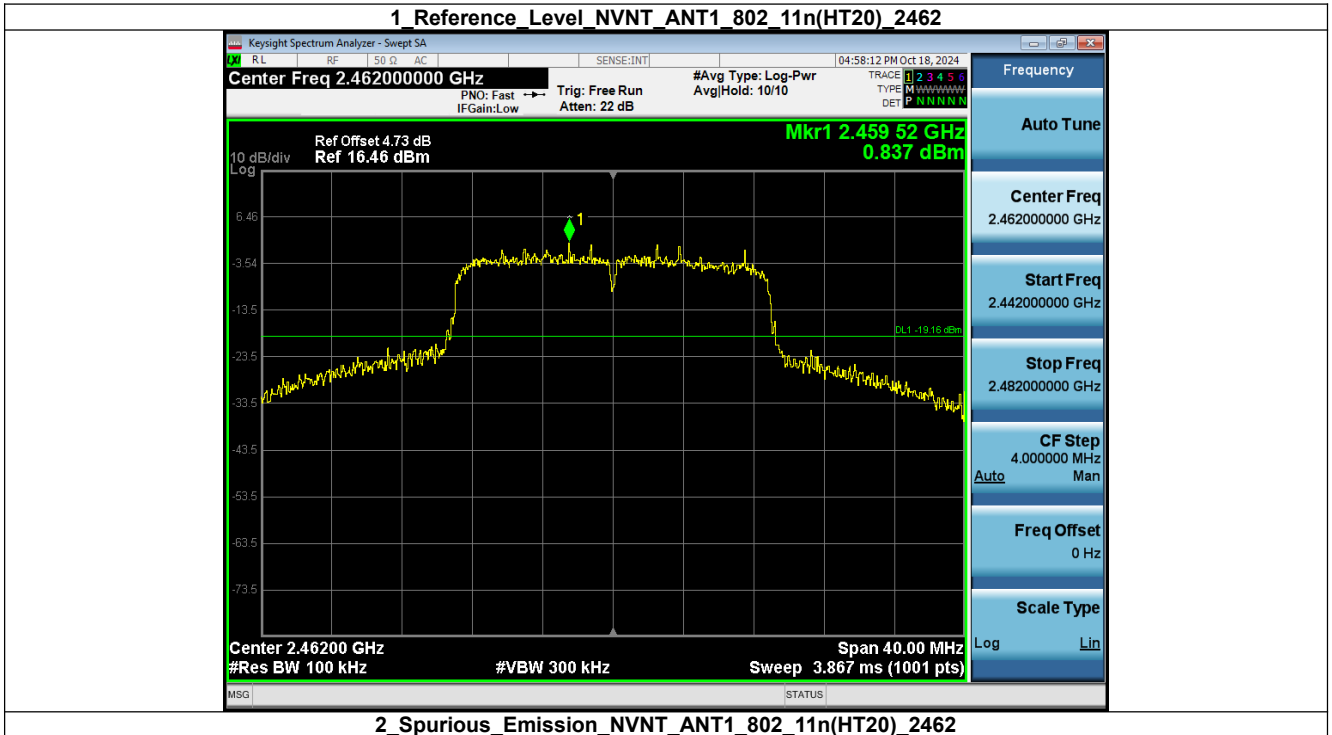
1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



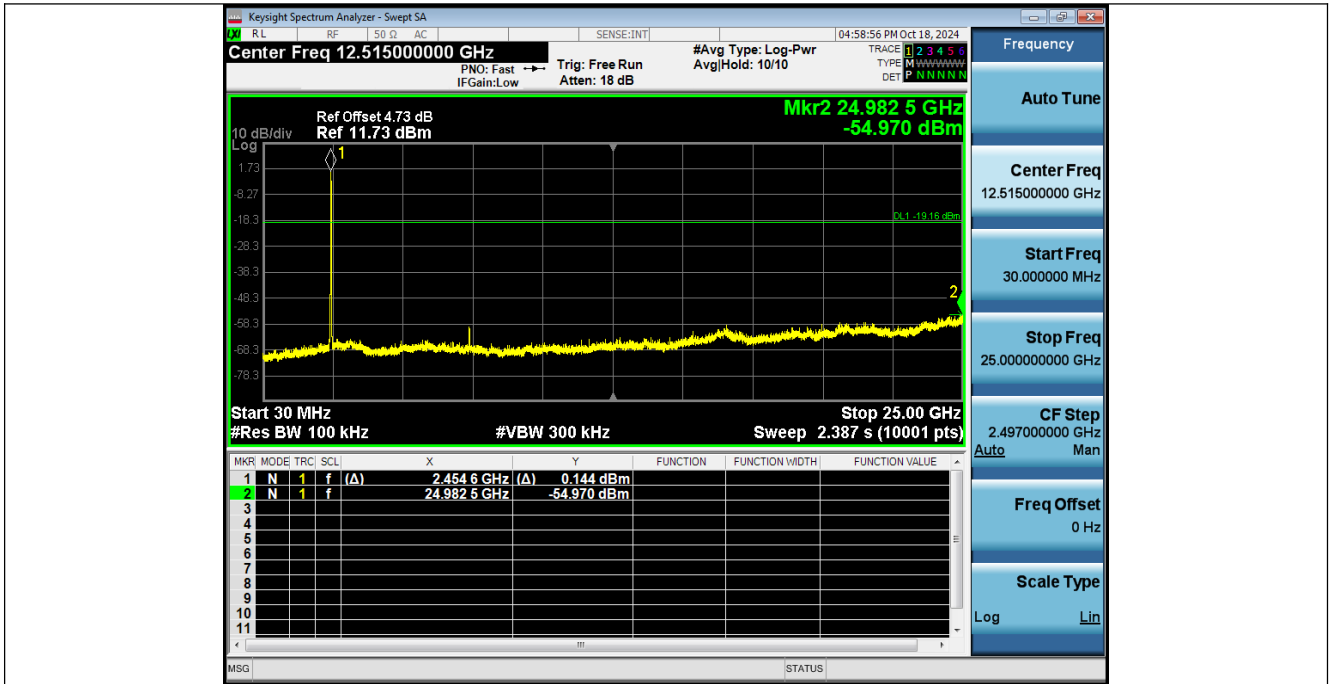
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



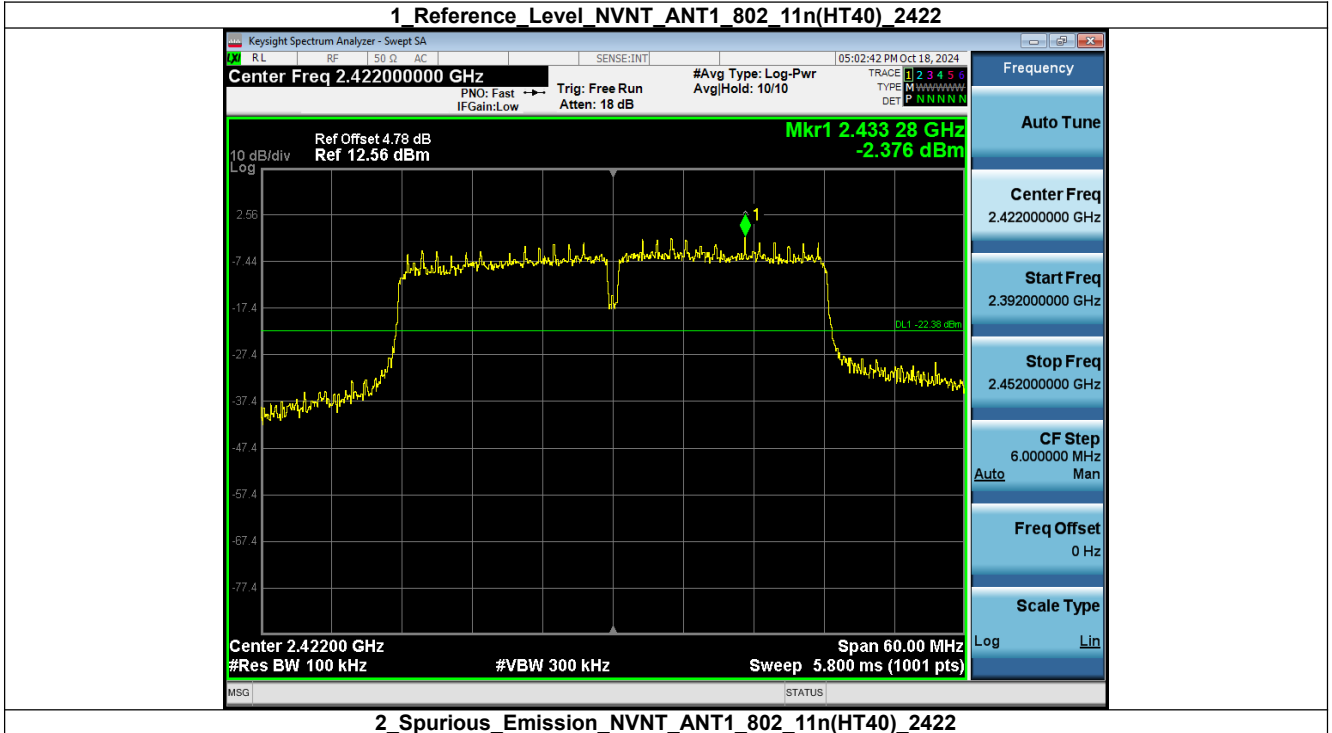
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



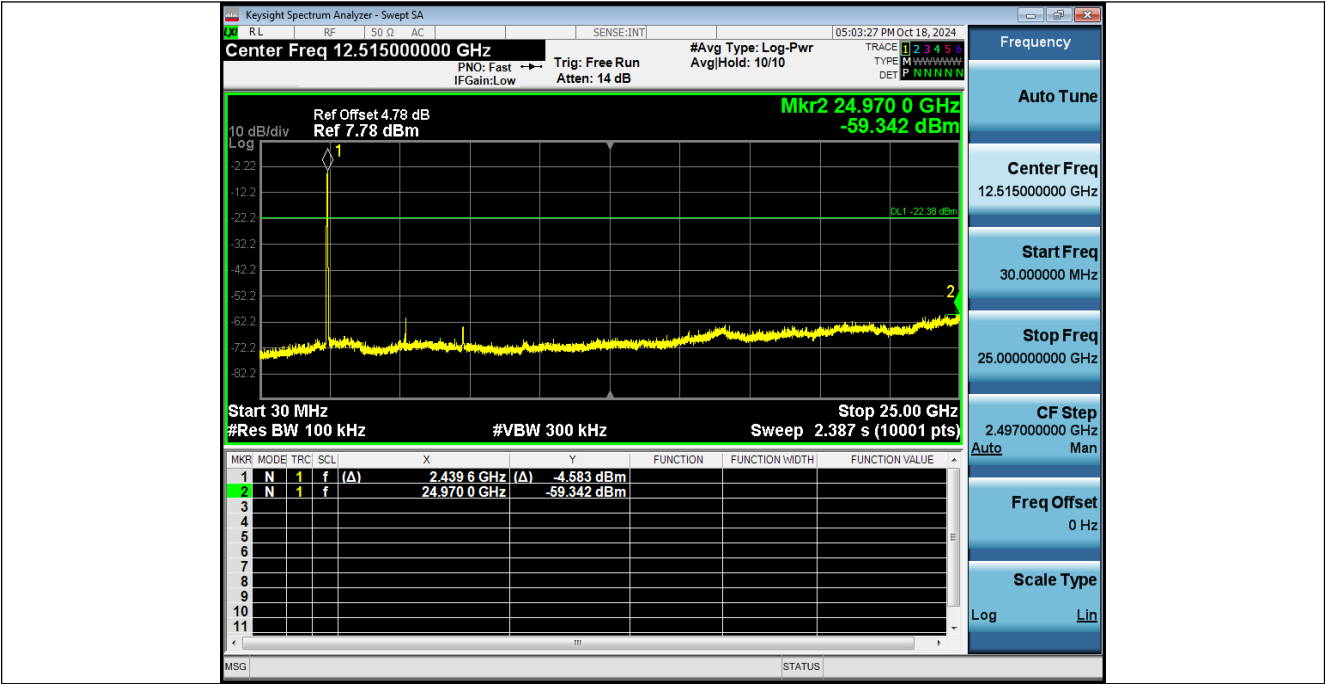
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



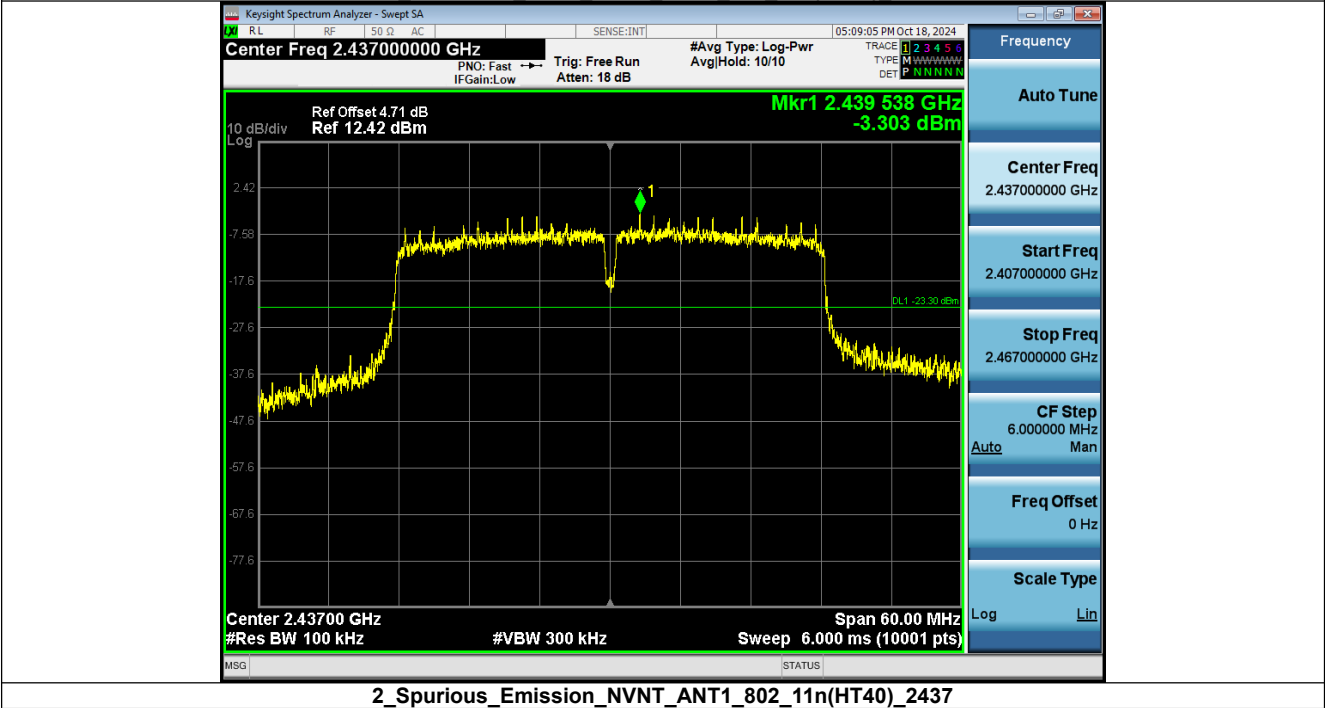
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



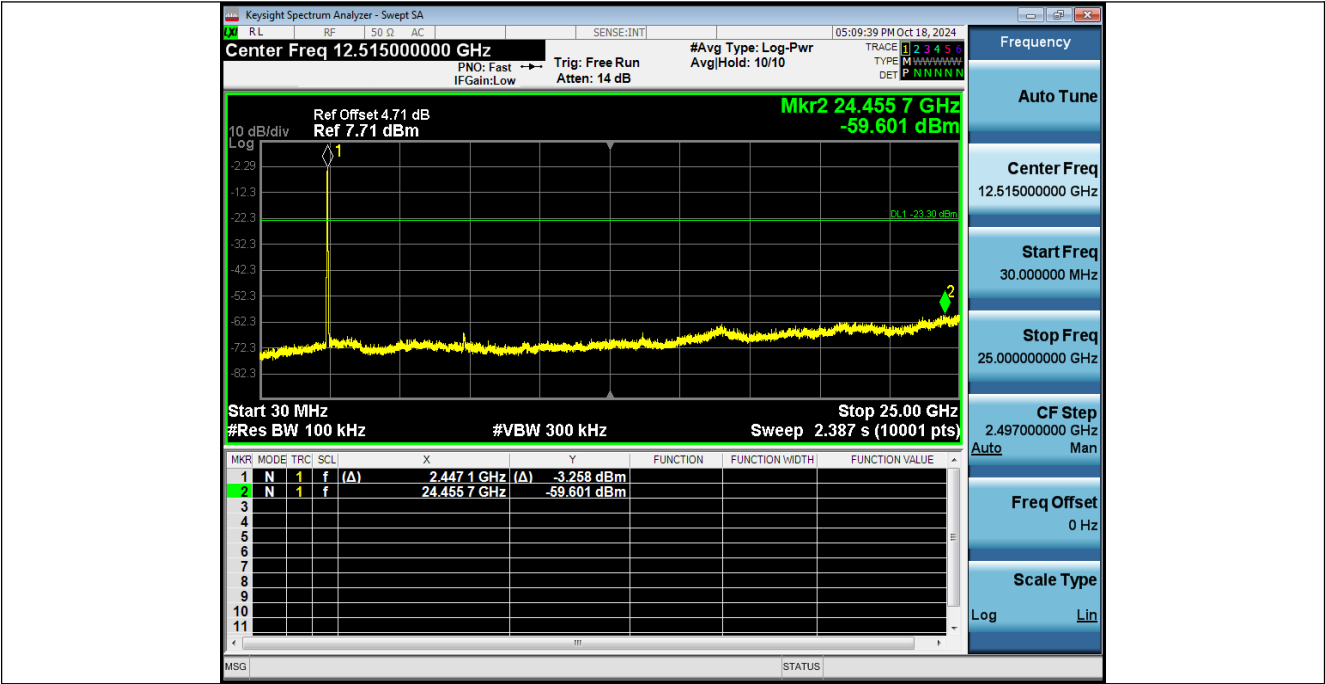
2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



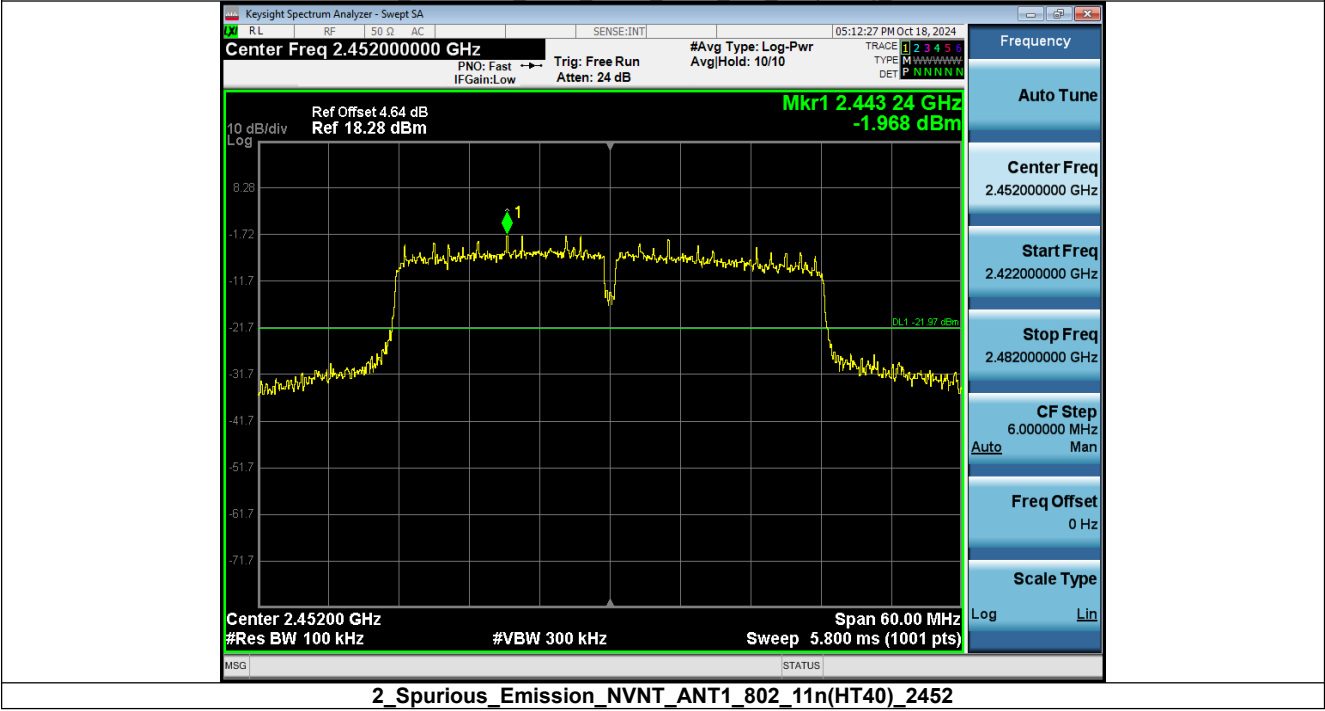
1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



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

