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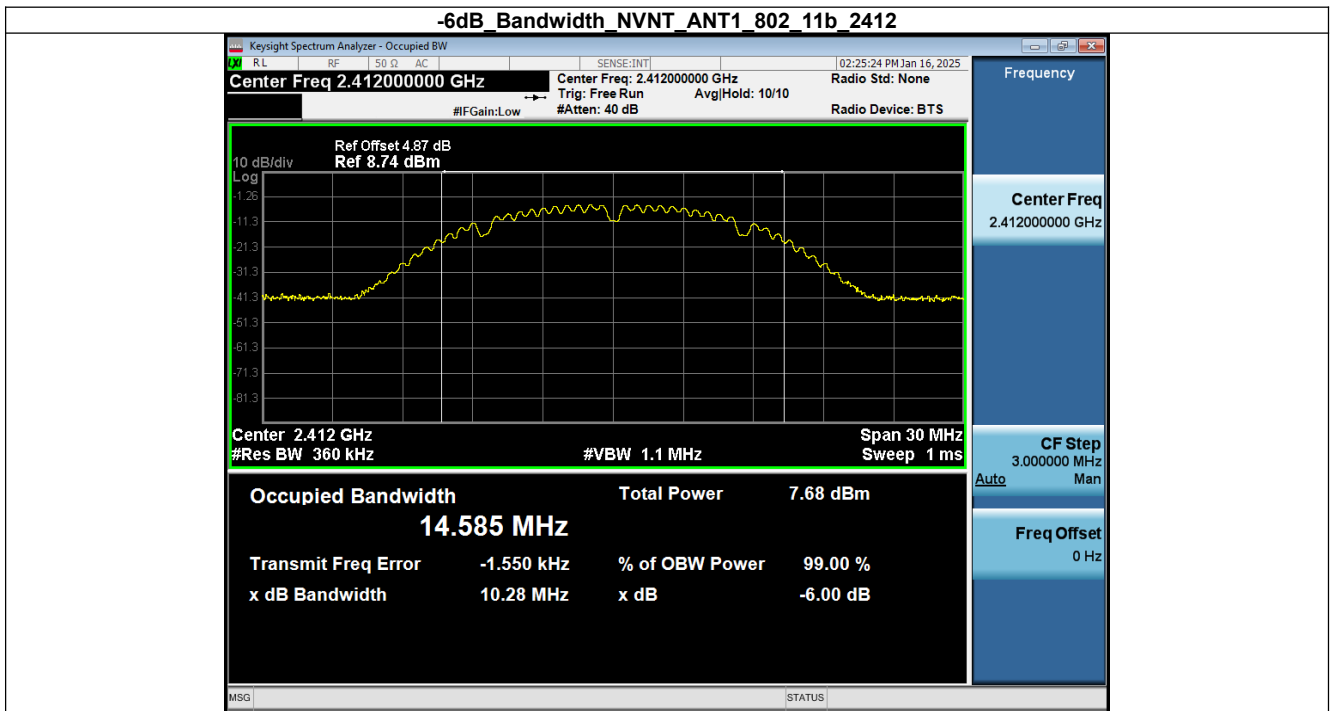
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IC:30055-MSE12

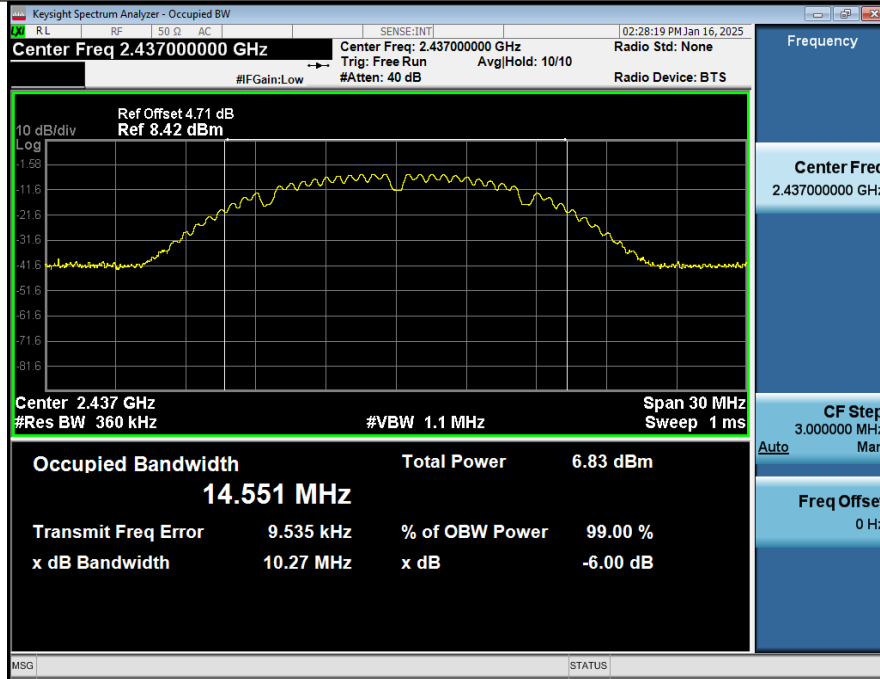
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

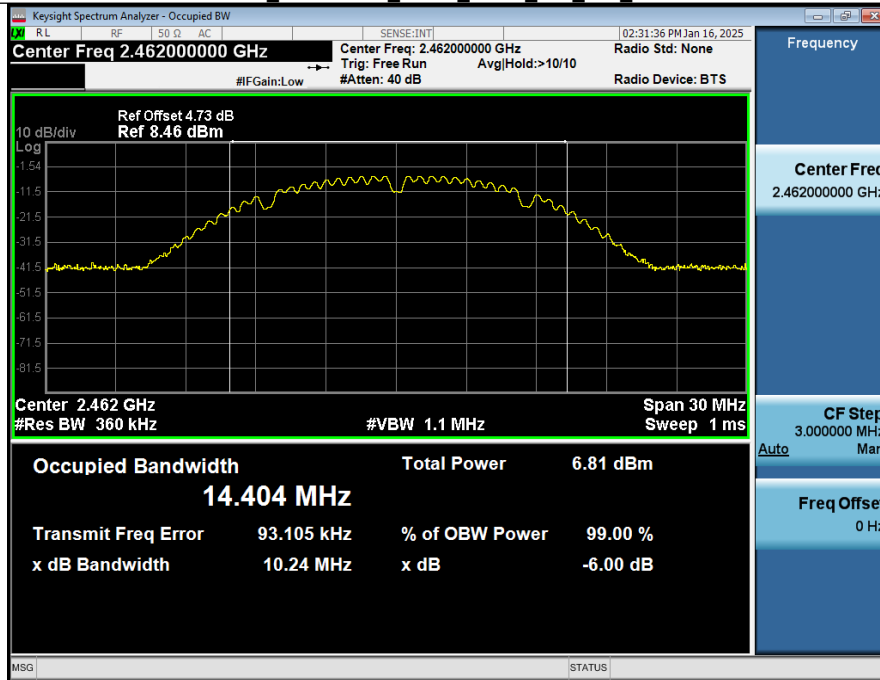
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.28	500	Pass
NVNT	ANT1	802.11b	2437.00	10.27	500	Pass
NVNT	ANT1	802.11b	2462.00	10.24	500	Pass
NVNT	ANT1	802.11g	2412.00	17.12	500	Pass
NVNT	ANT1	802.11g	2437.00	16.69	500	Pass
NVNT	ANT1	802.11g	2462.00	16.49	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.81	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.80	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.76	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.39	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.58	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.49	500	Pass



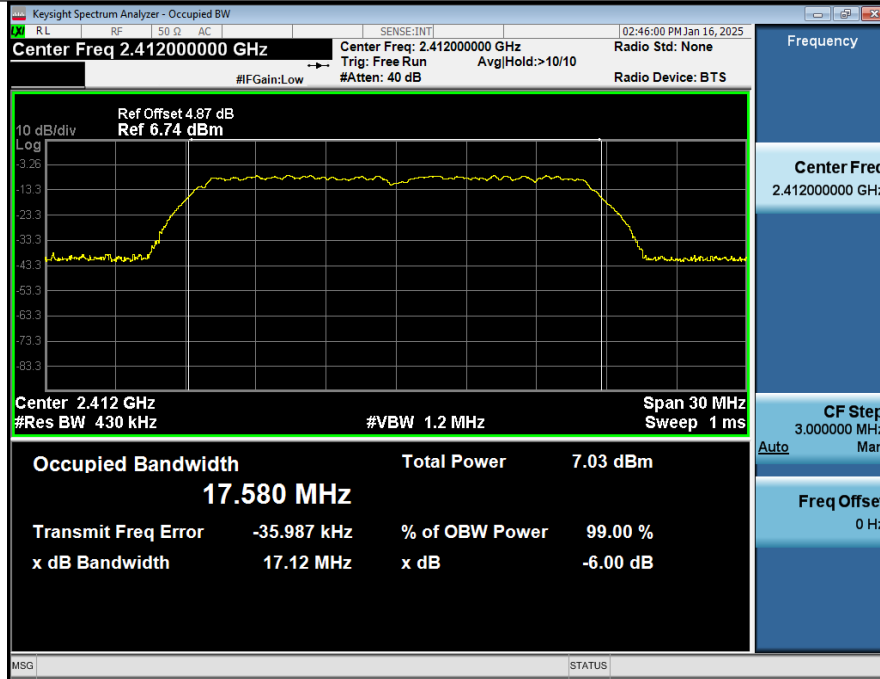
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



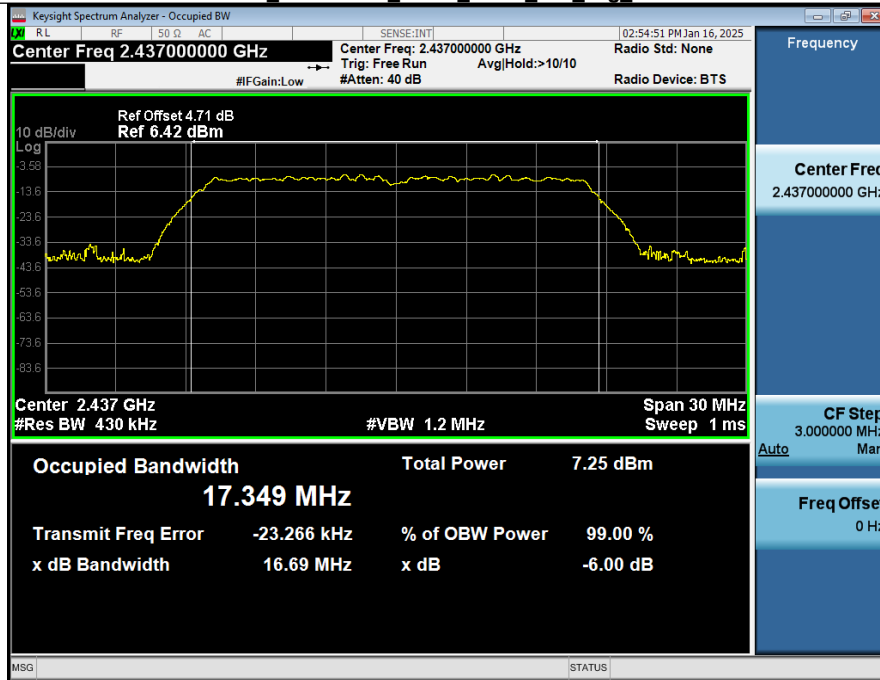
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



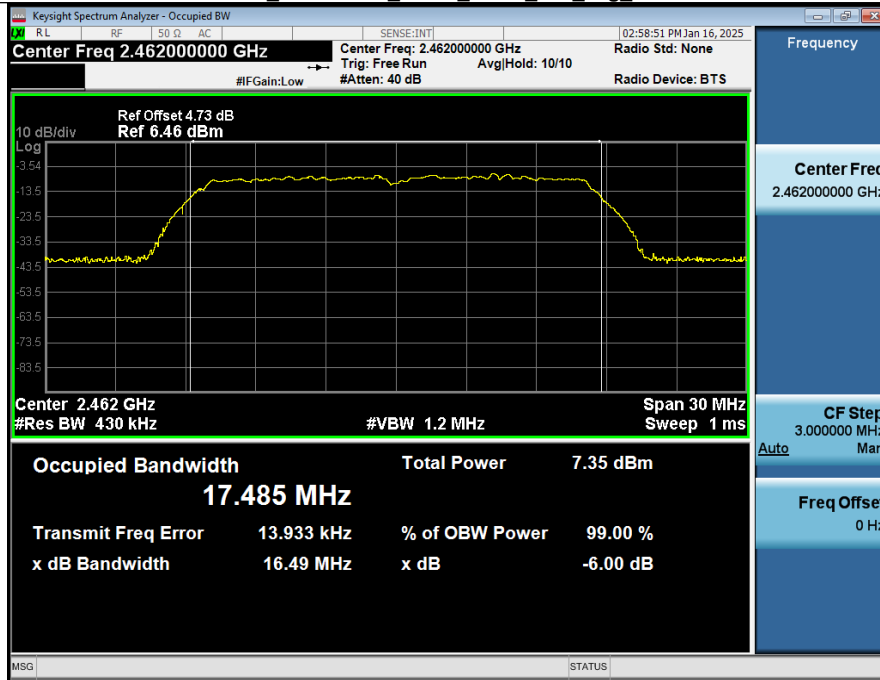
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



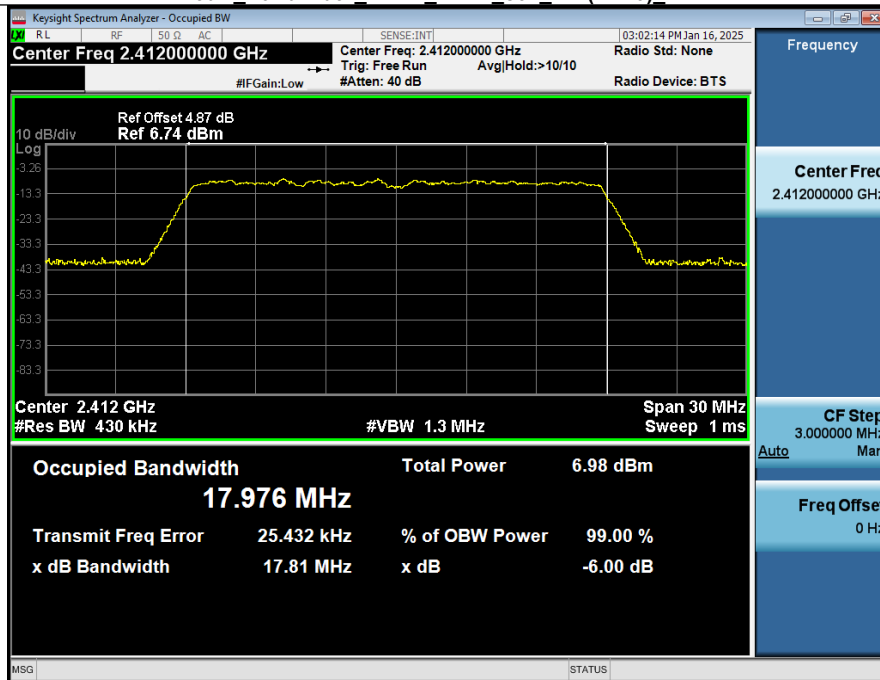
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



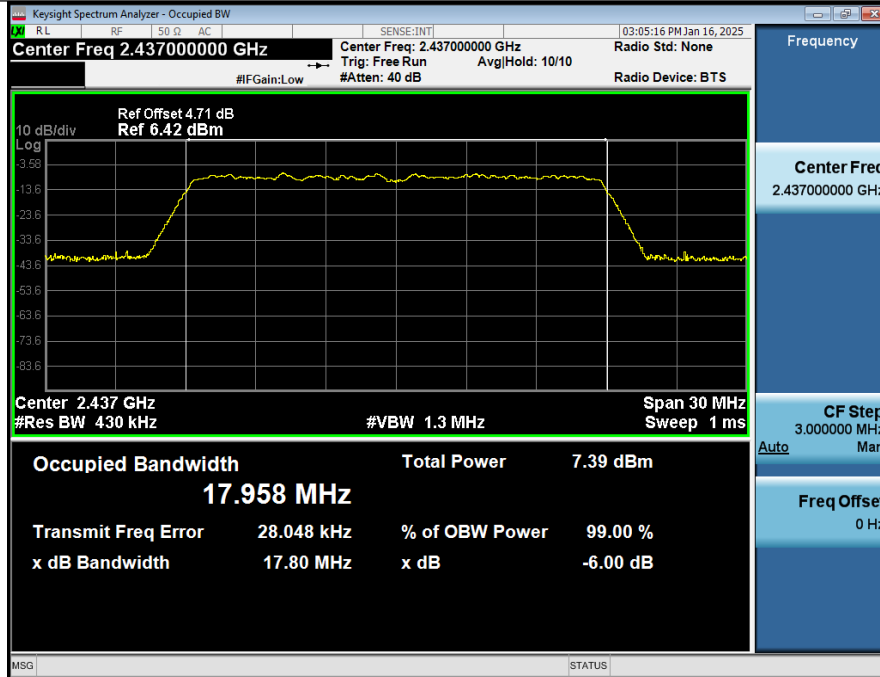
-6dB Bandwidth NVNT_ANT1_802_11g_2462



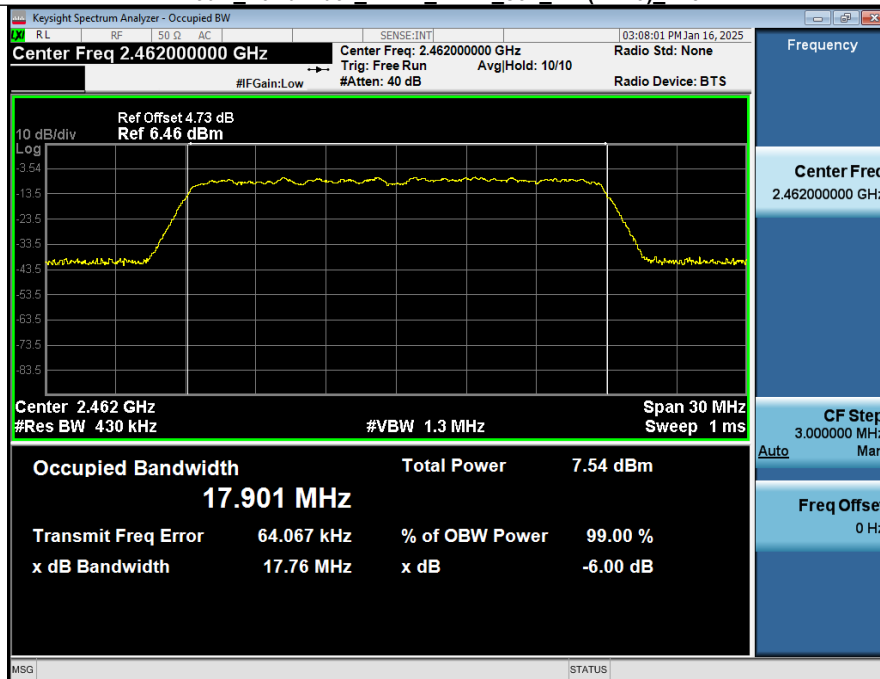
-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2412



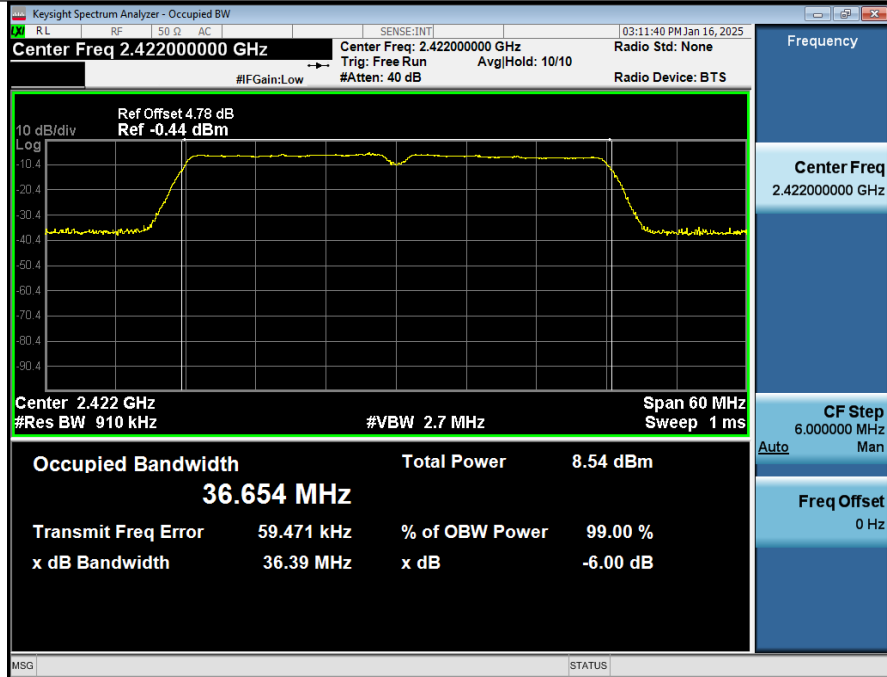
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



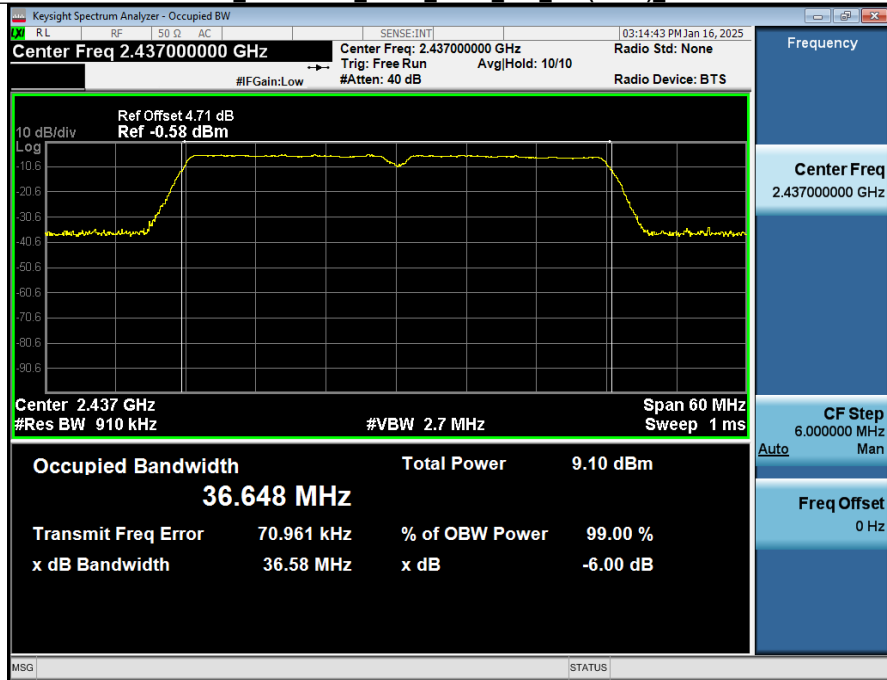
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

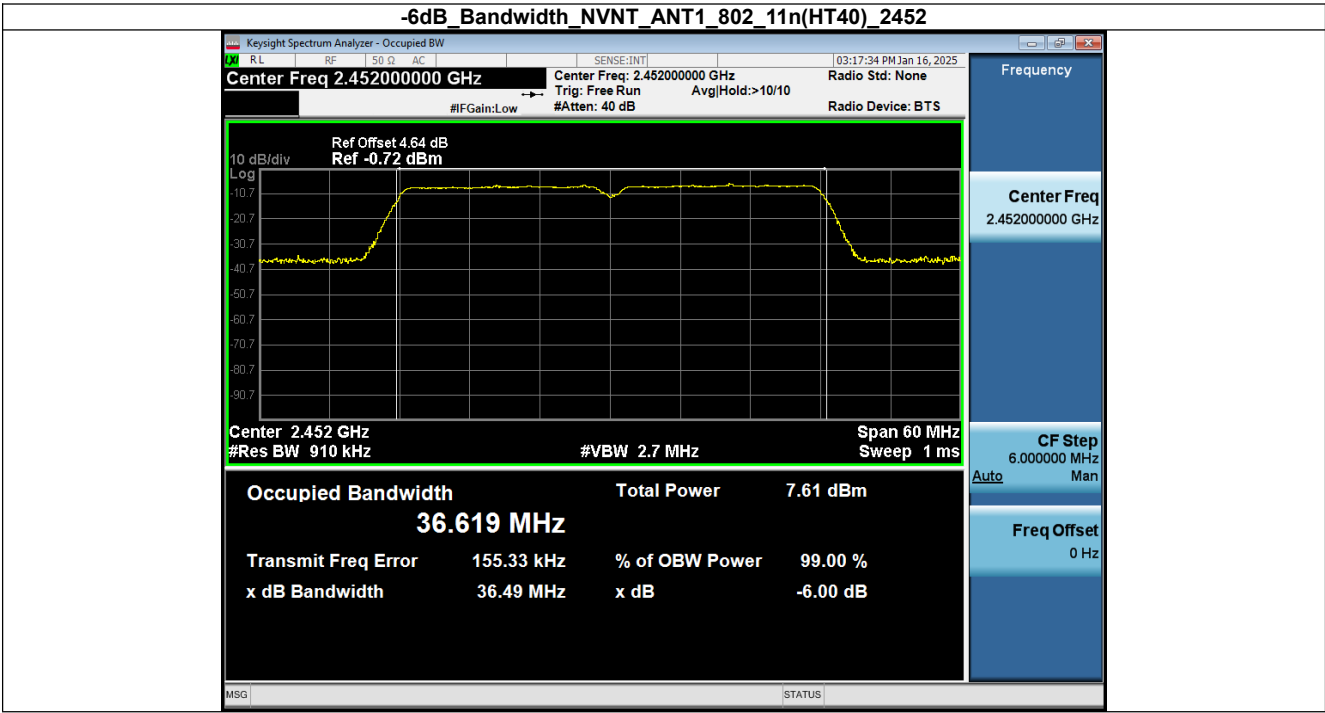


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



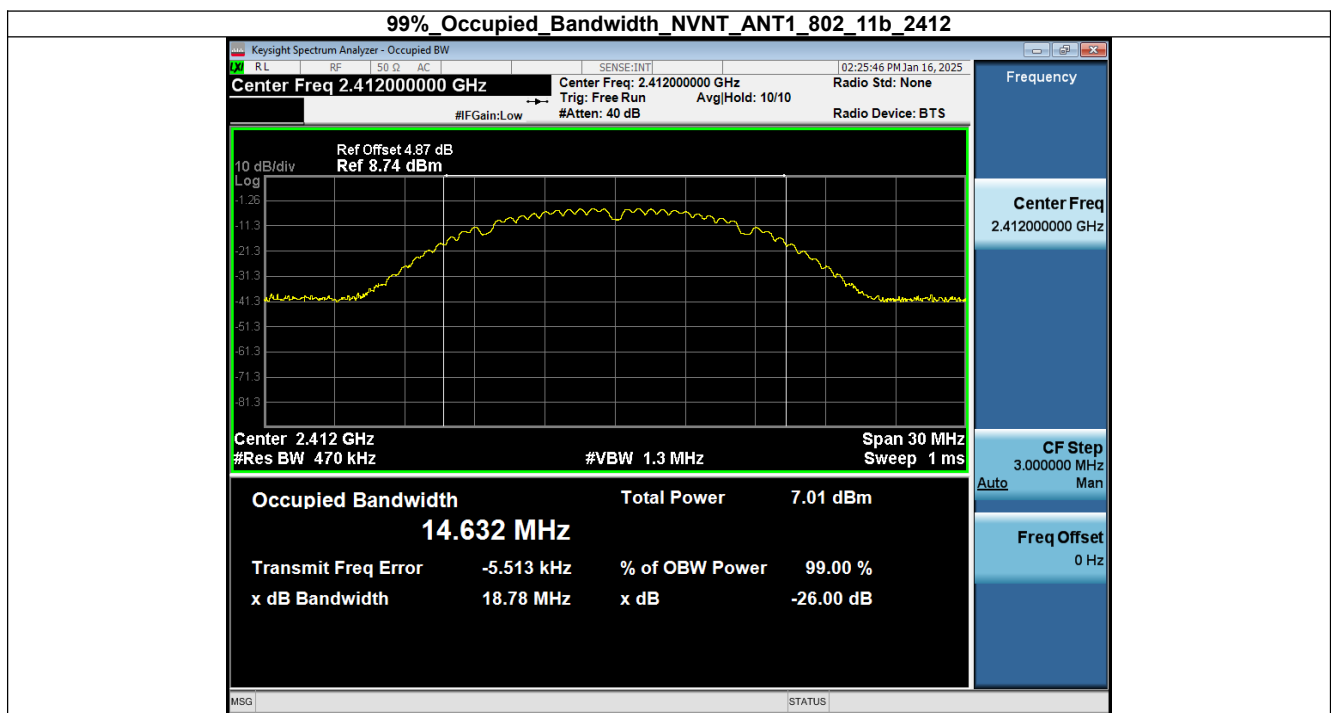
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



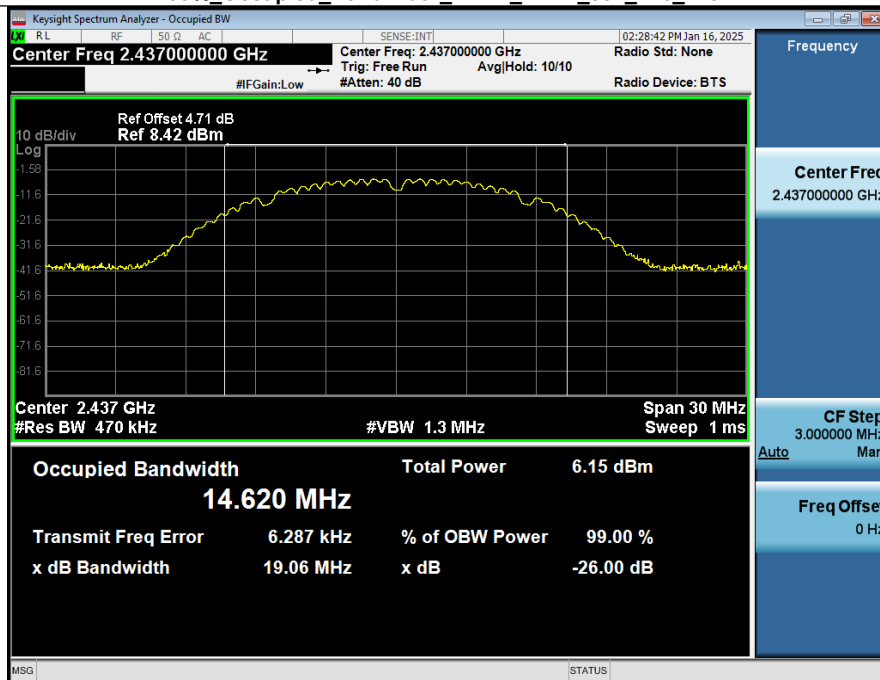


2. 99% Occupied Bandwidth

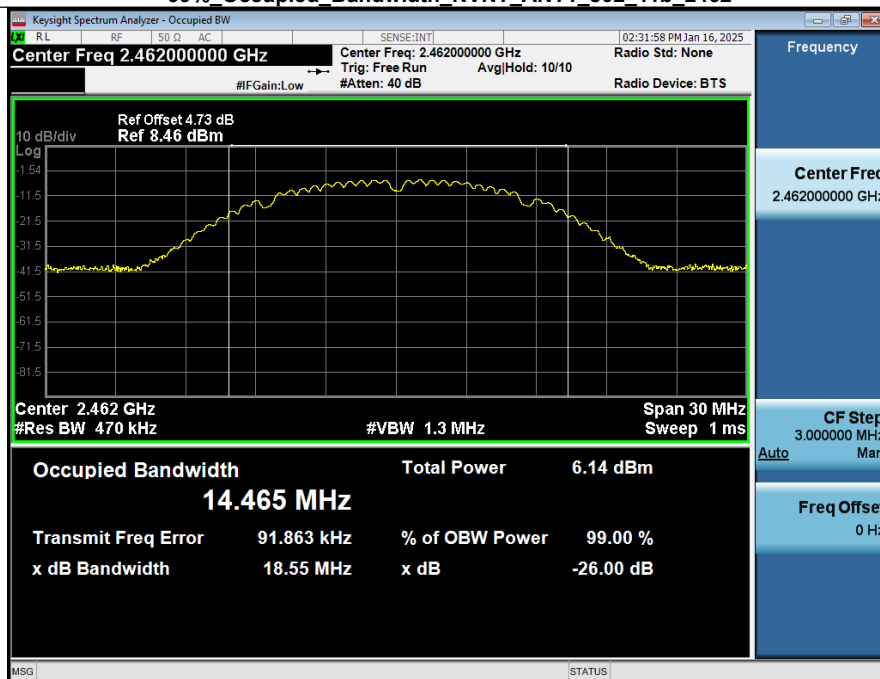
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.632
NVNT	ANT1	802.11b	2437.00	14.620
NVNT	ANT1	802.11b	2462.00	14.465
NVNT	ANT1	802.11g	2412.00	17.777
NVNT	ANT1	802.11g	2437.00	17.739
NVNT	ANT1	802.11g	2462.00	17.675
NVNT	ANT1	802.11n(HT20)	2412.00	18.081
NVNT	ANT1	802.11n(HT20)	2437.00	18.057
NVNT	ANT1	802.11n(HT20)	2462.00	18.007
NVNT	ANT1	802.11n(HT40)	2422.00	36.658
NVNT	ANT1	802.11n(HT40)	2437.00	36.689
NVNT	ANT1	802.11n(HT40)	2452.00	36.677



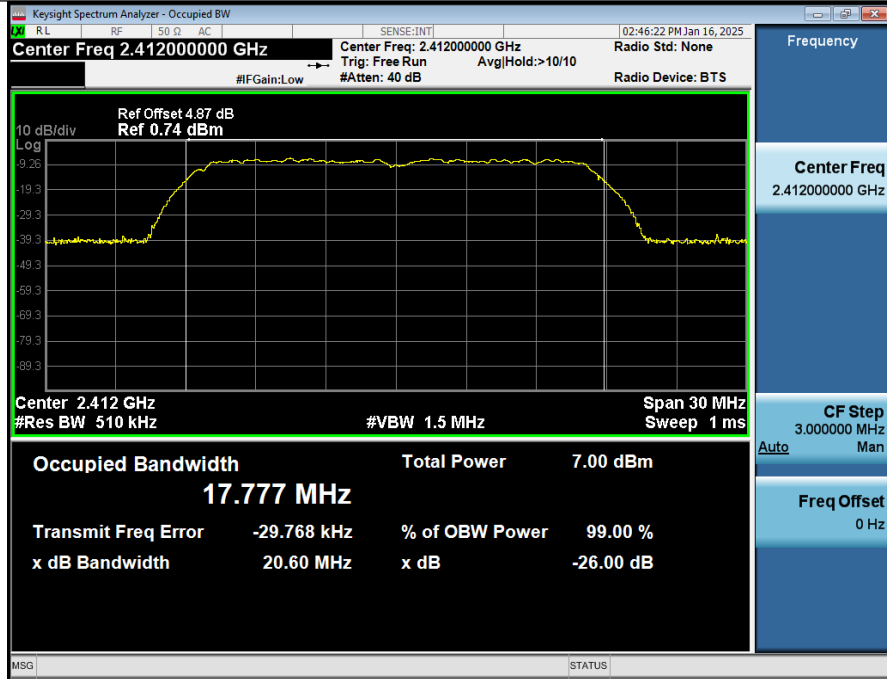
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



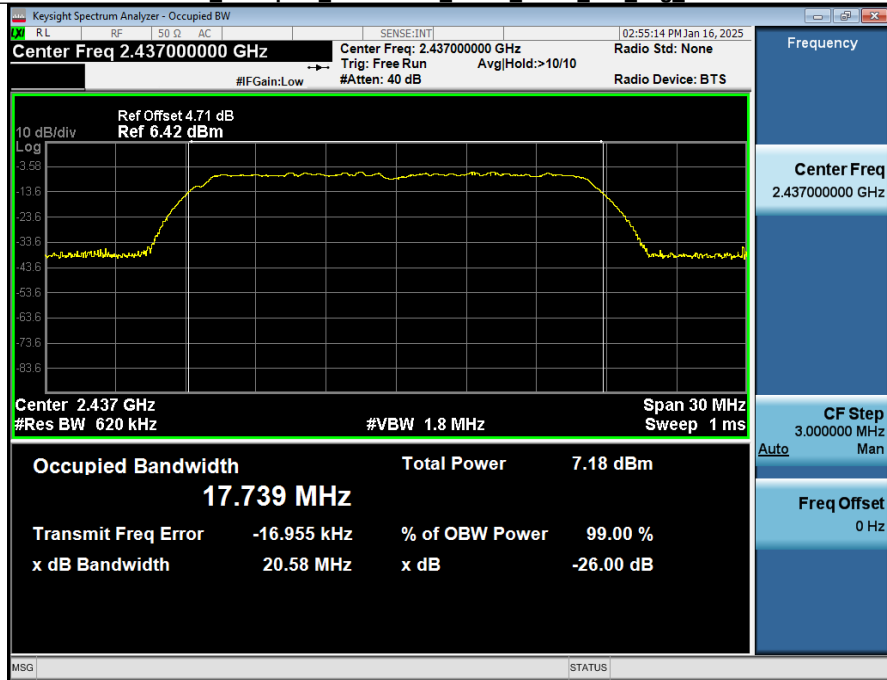
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



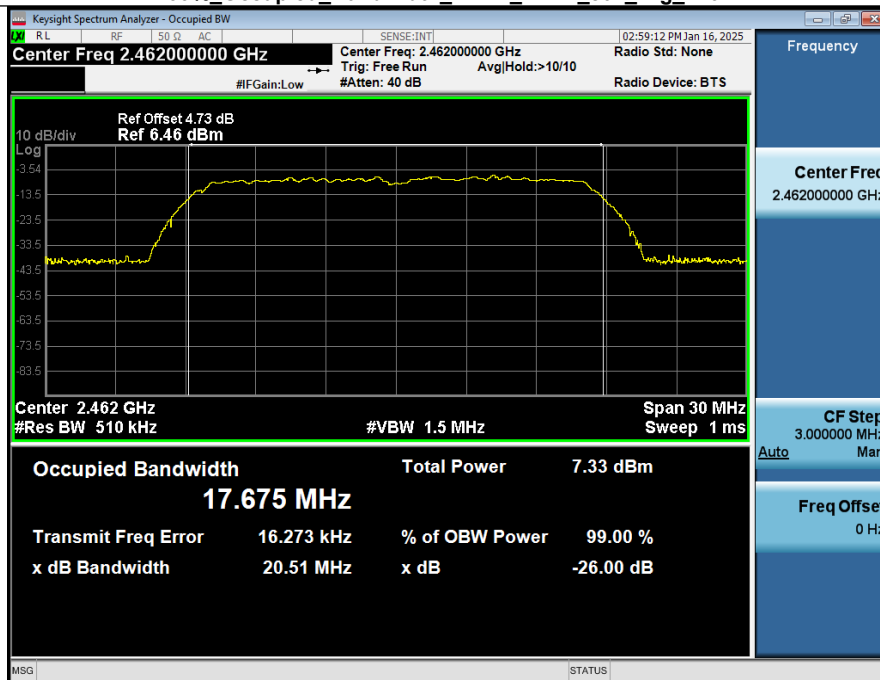
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



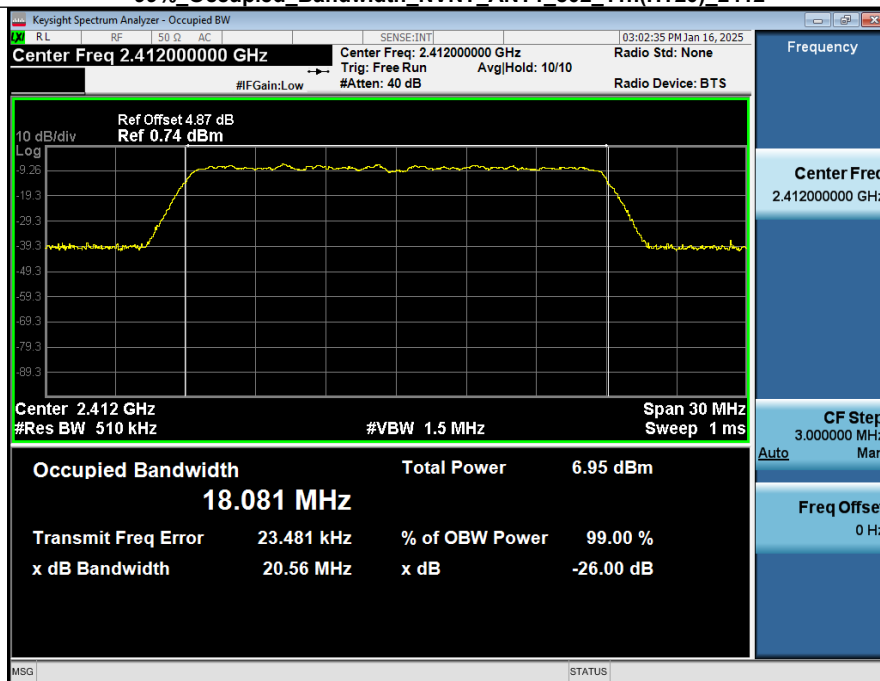
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



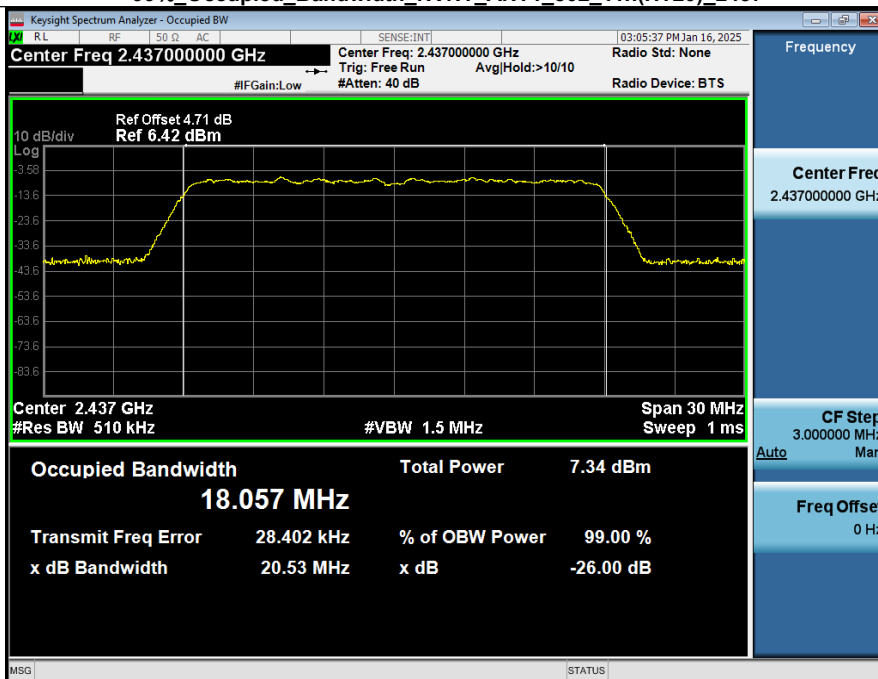
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462



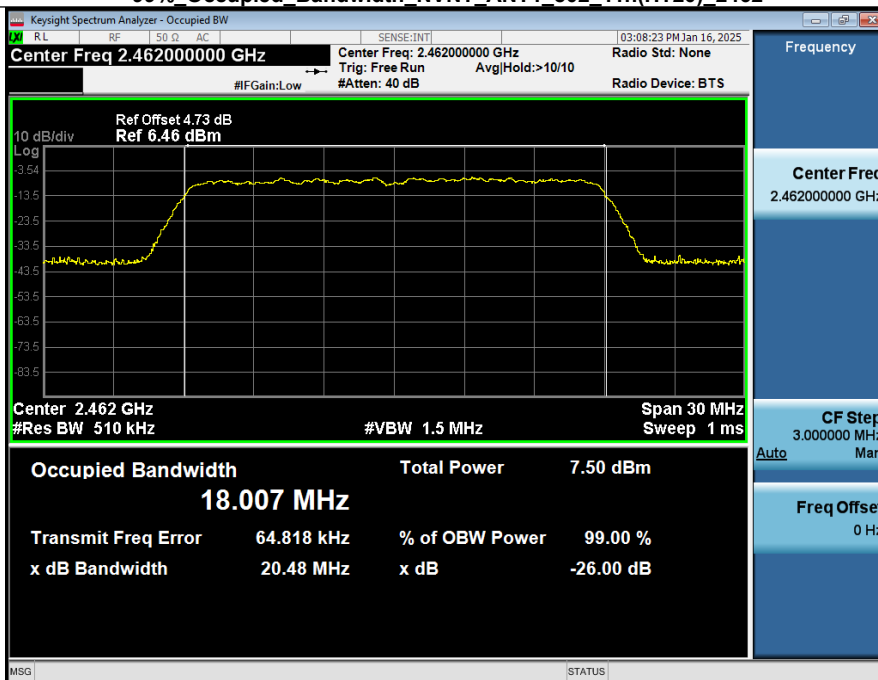
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412

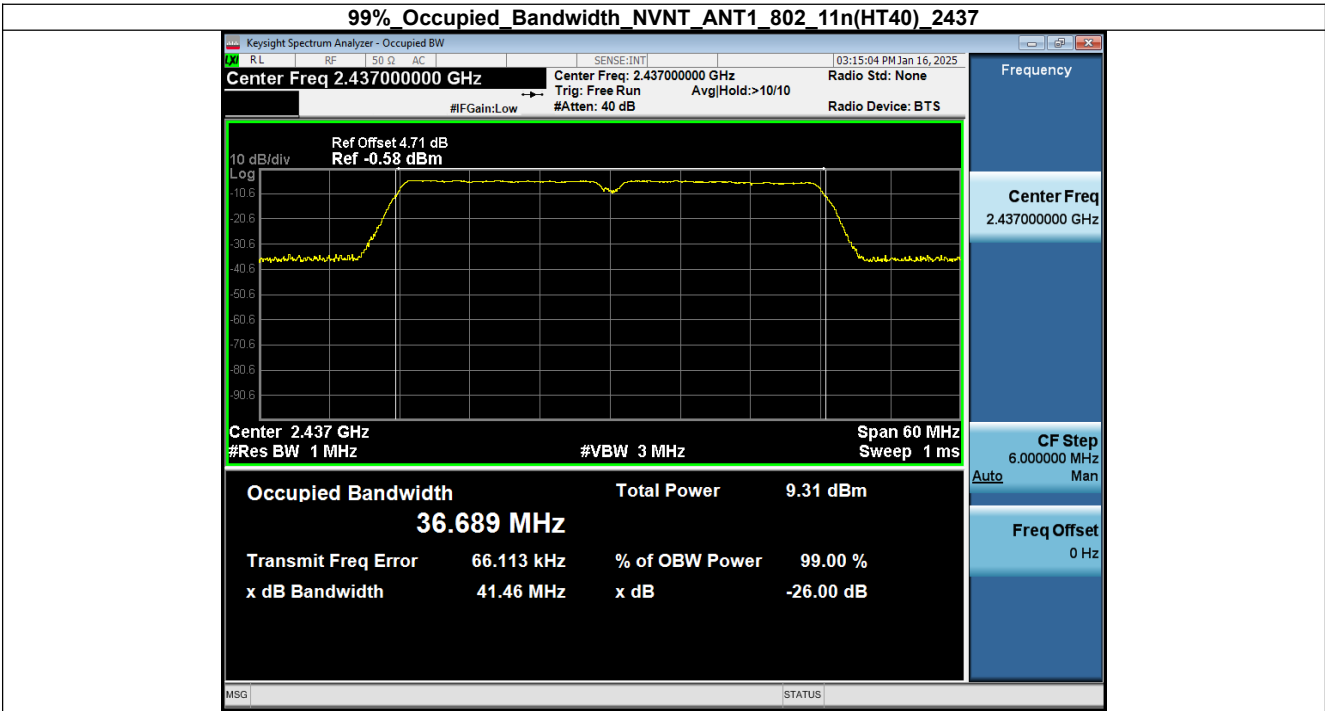
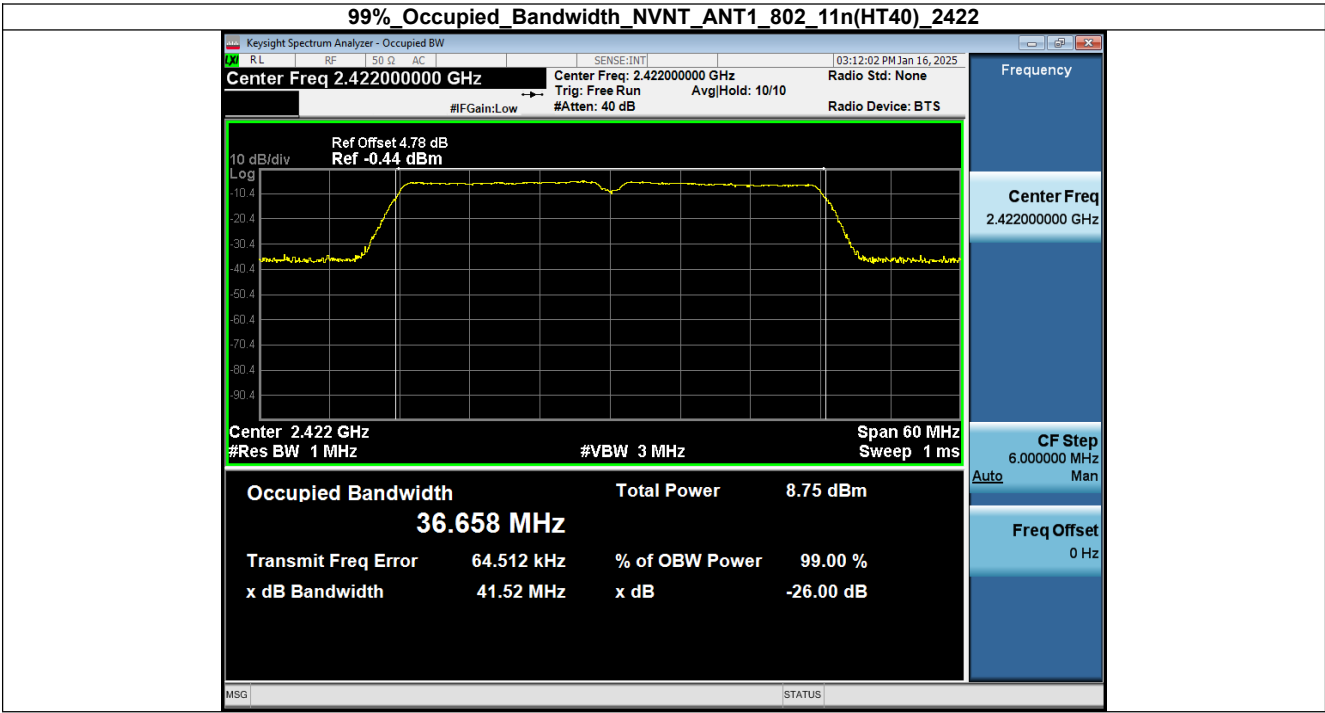


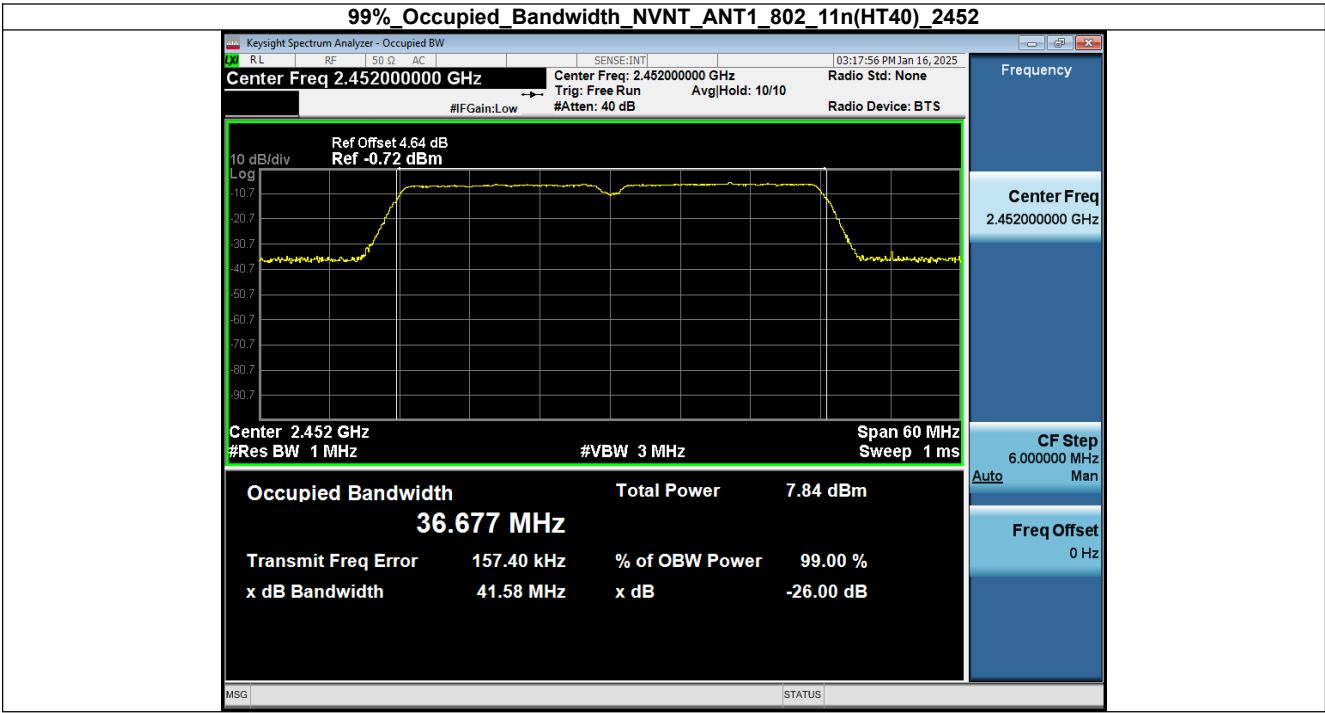
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462

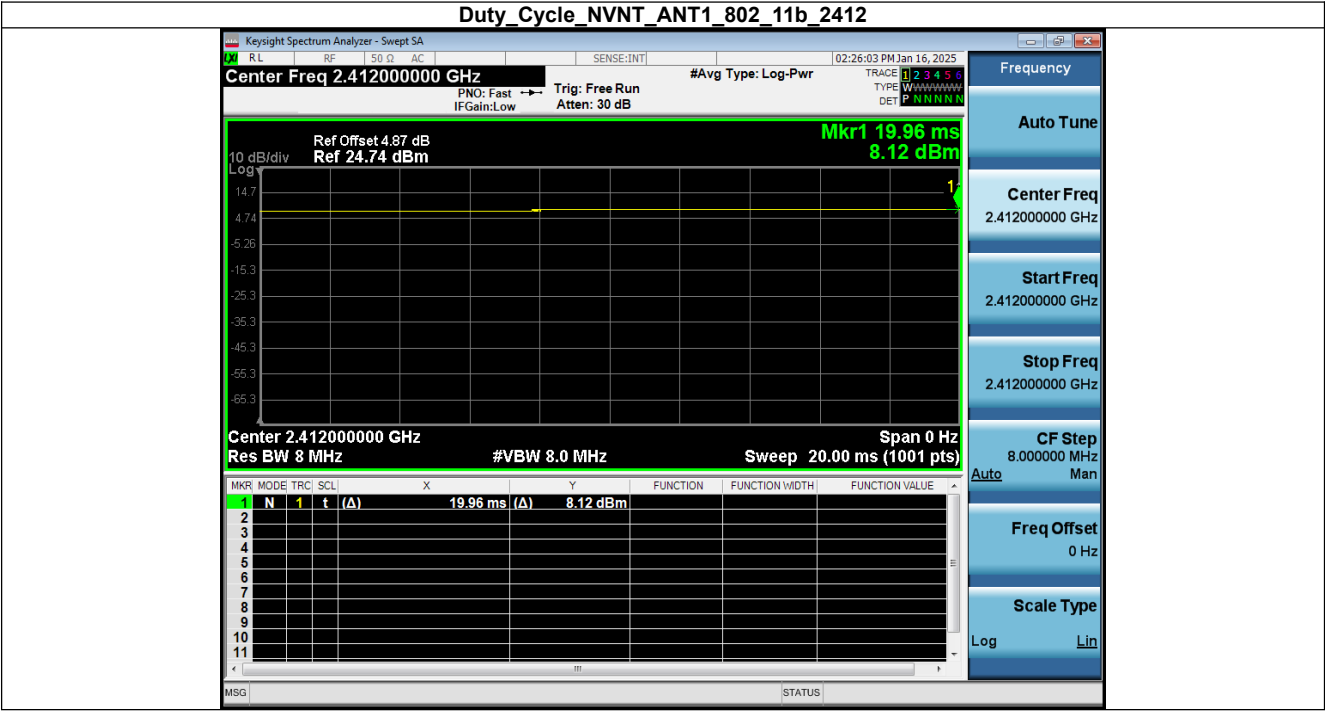




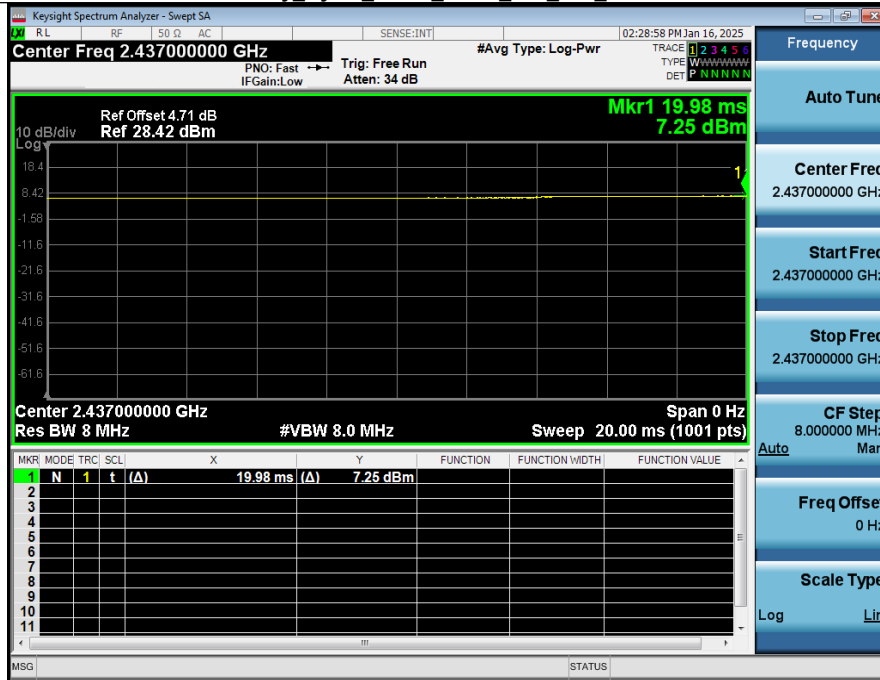


3. Duty Cycle

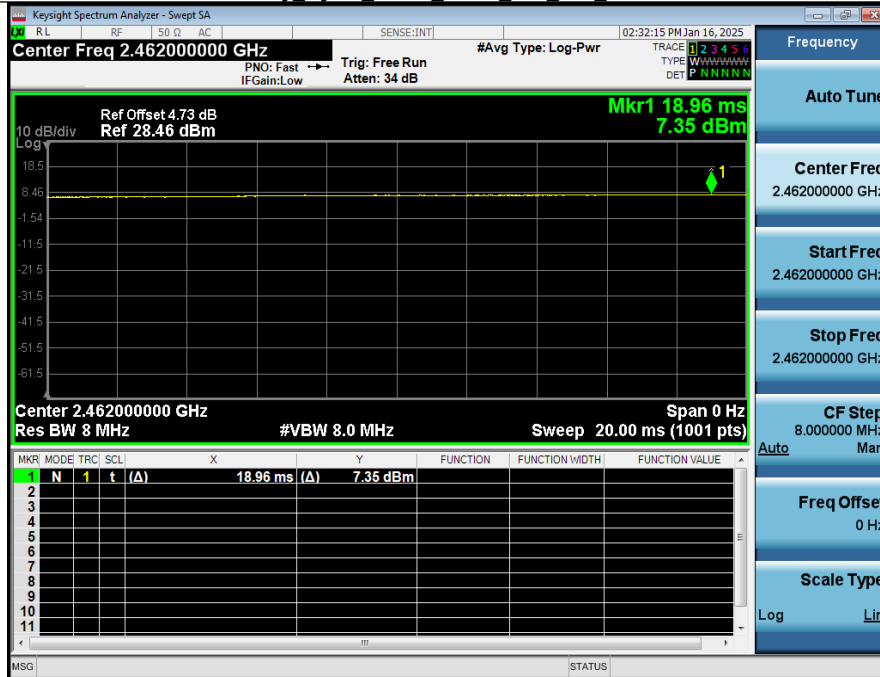
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	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



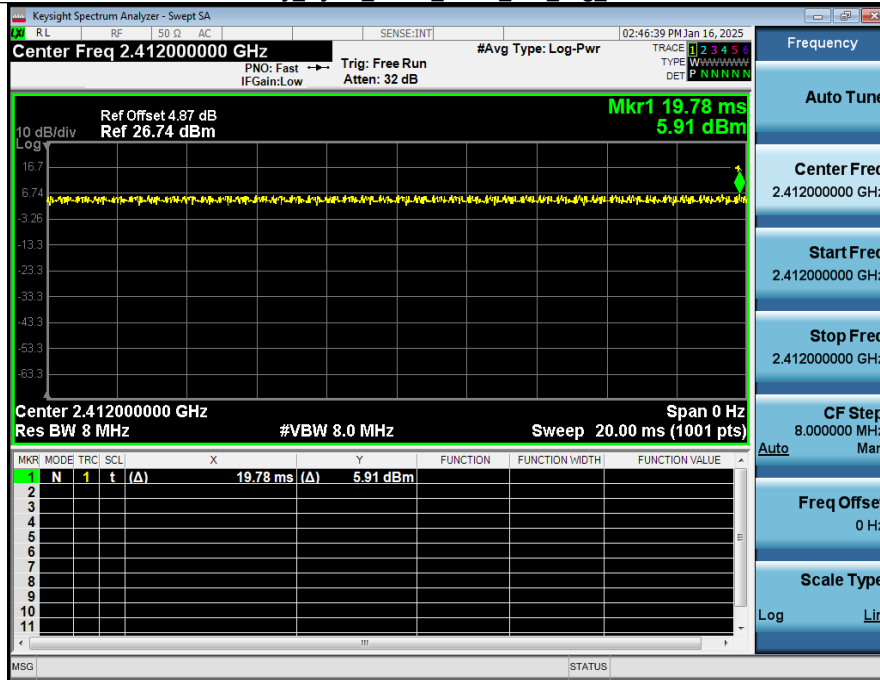
Duty Cycle NVNT_ANT1_802_11b_2437



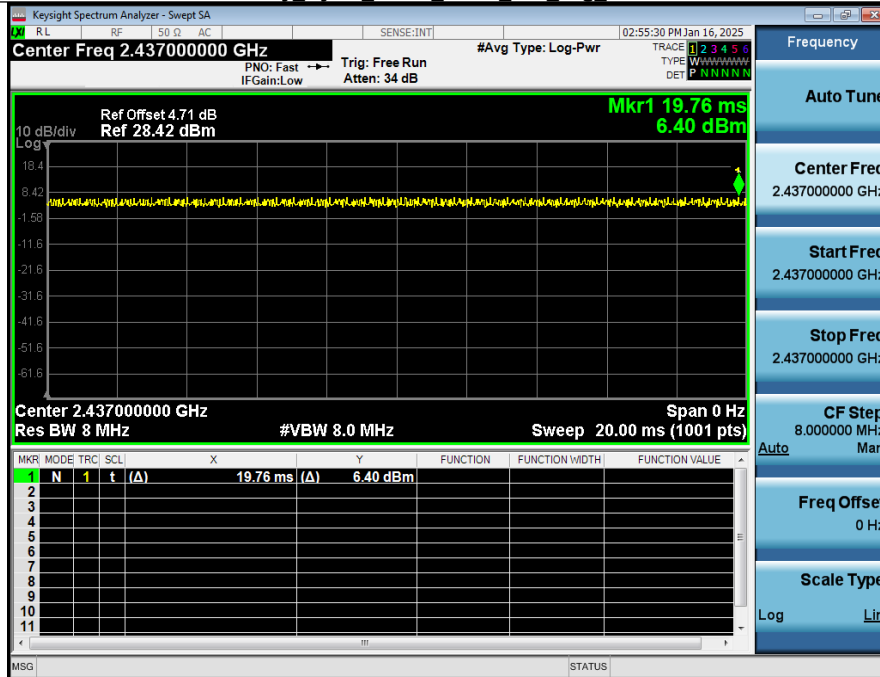
Duty Cycle NVNT_ANT1_802_11b_2462



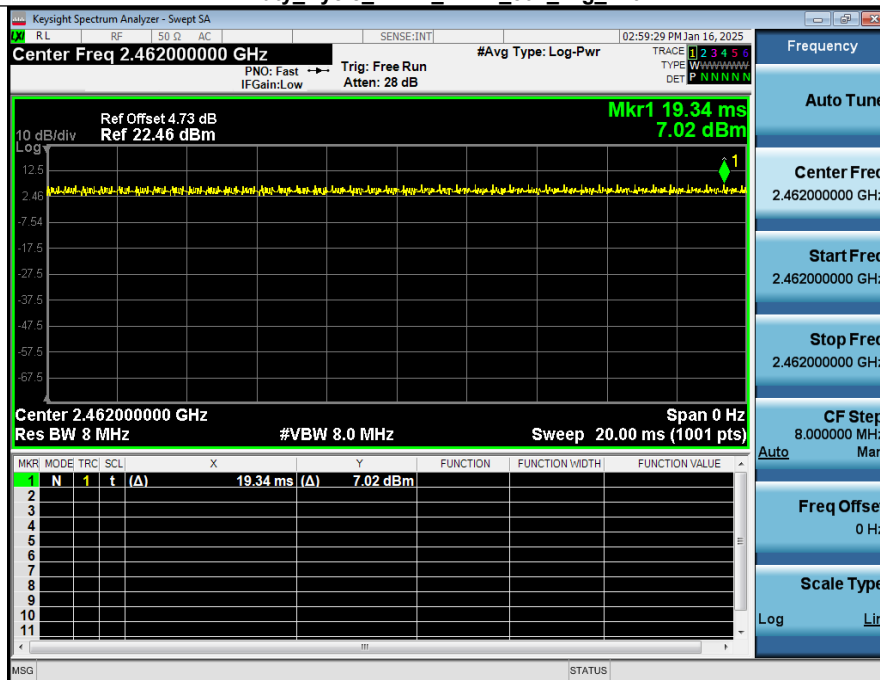
Duty Cycle NVNT ANT1_802_11g_2412



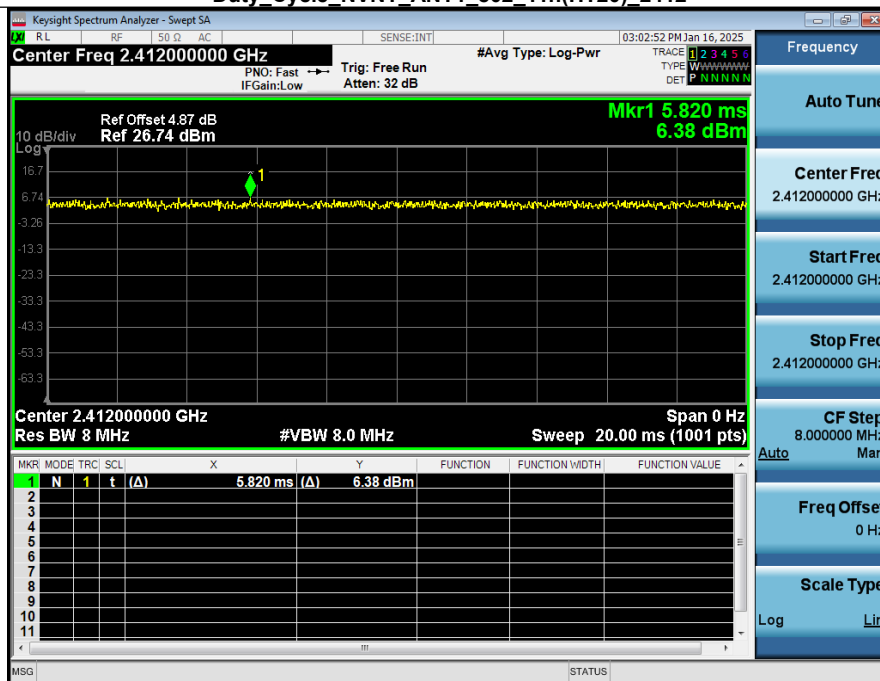
Duty Cycle NVNT ANT1_802_11g_2437



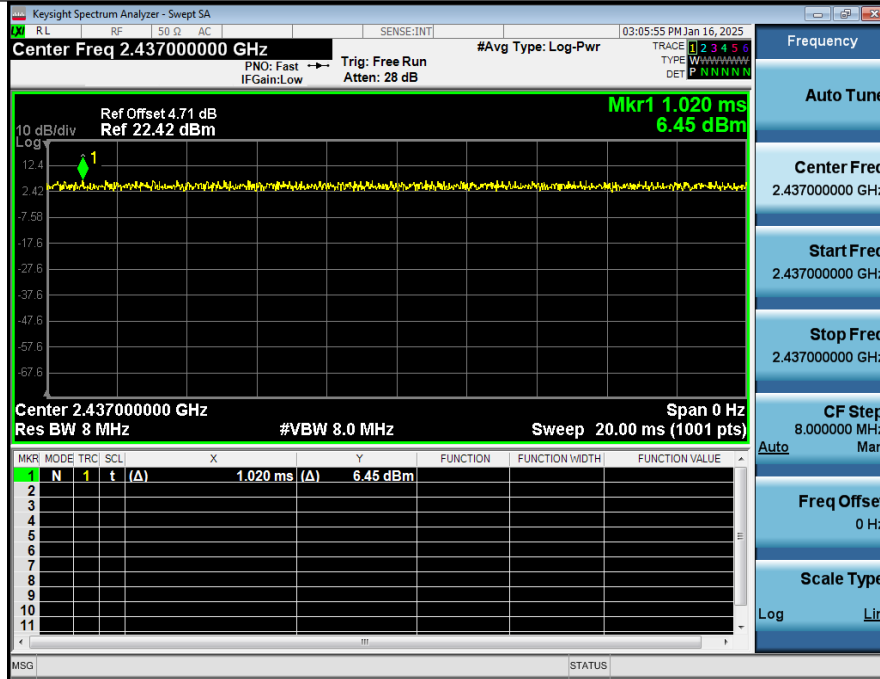
Duty Cycle NVNT_ANT1_802_11g_2462



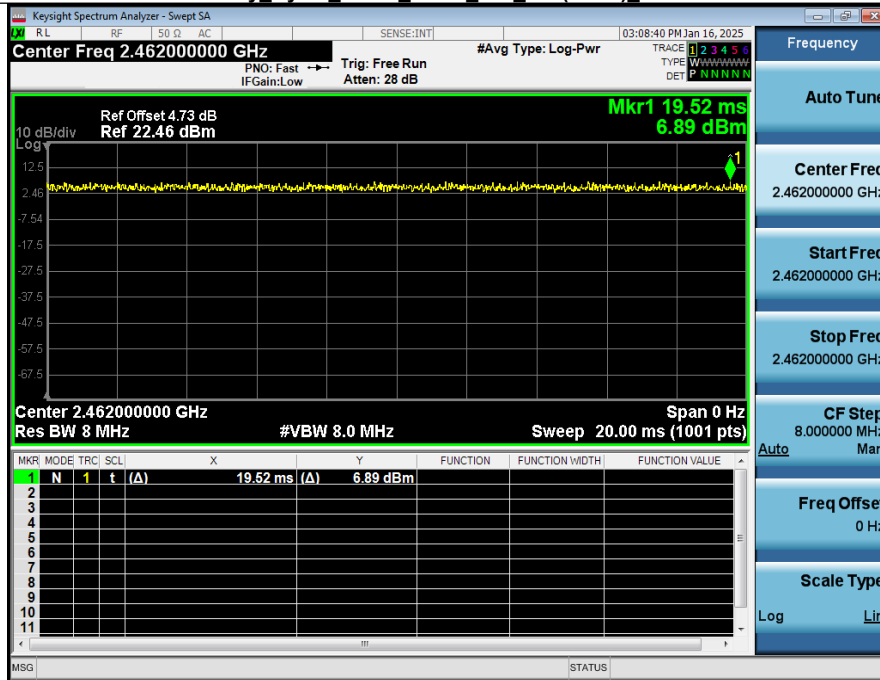
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



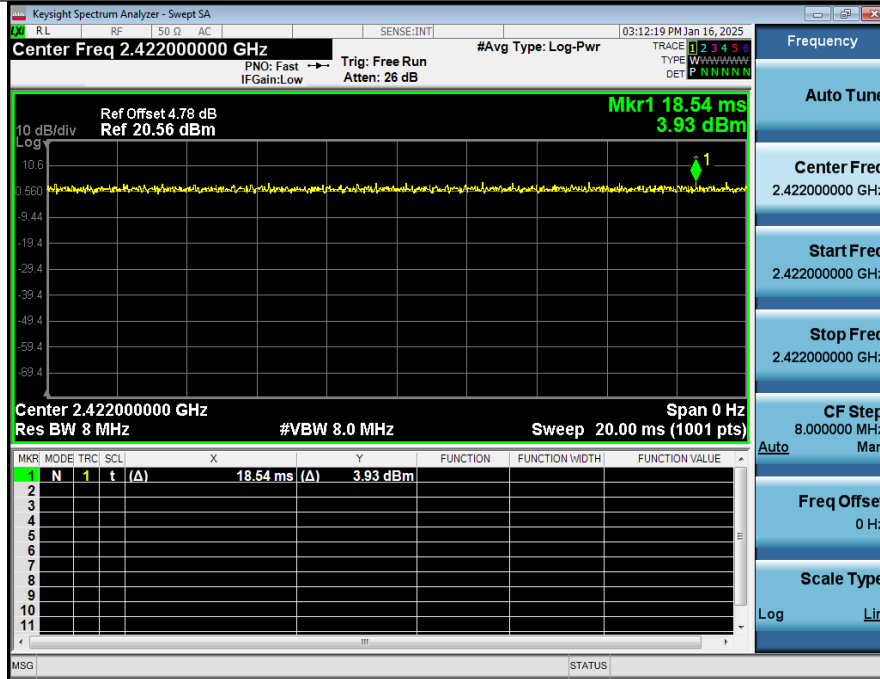
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



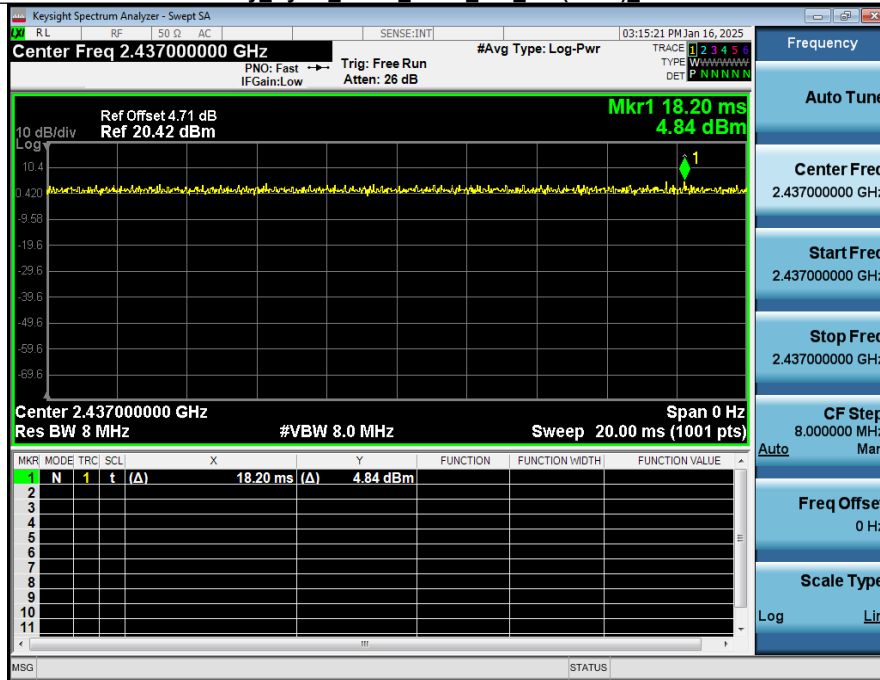
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



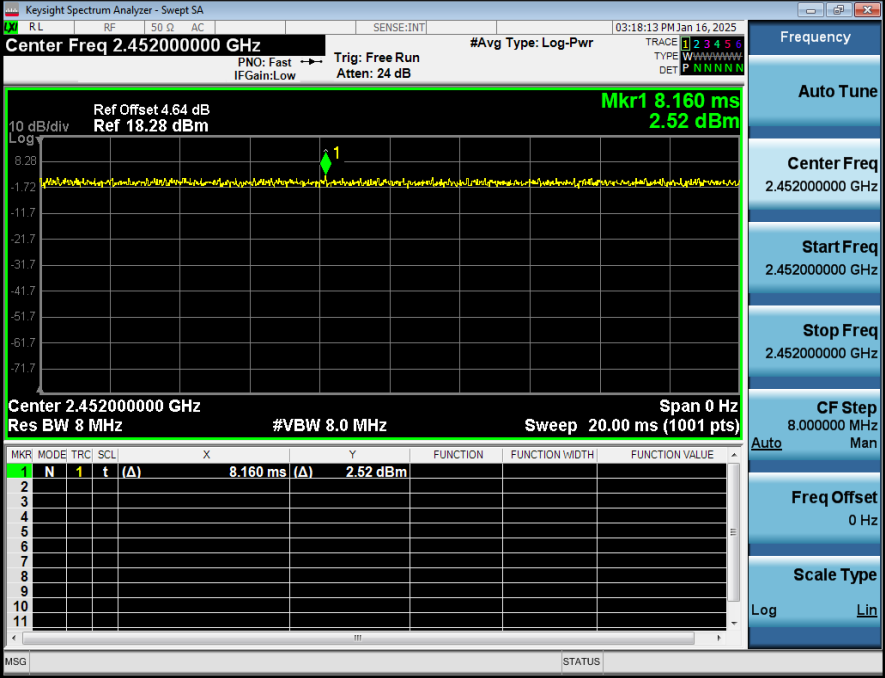
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437

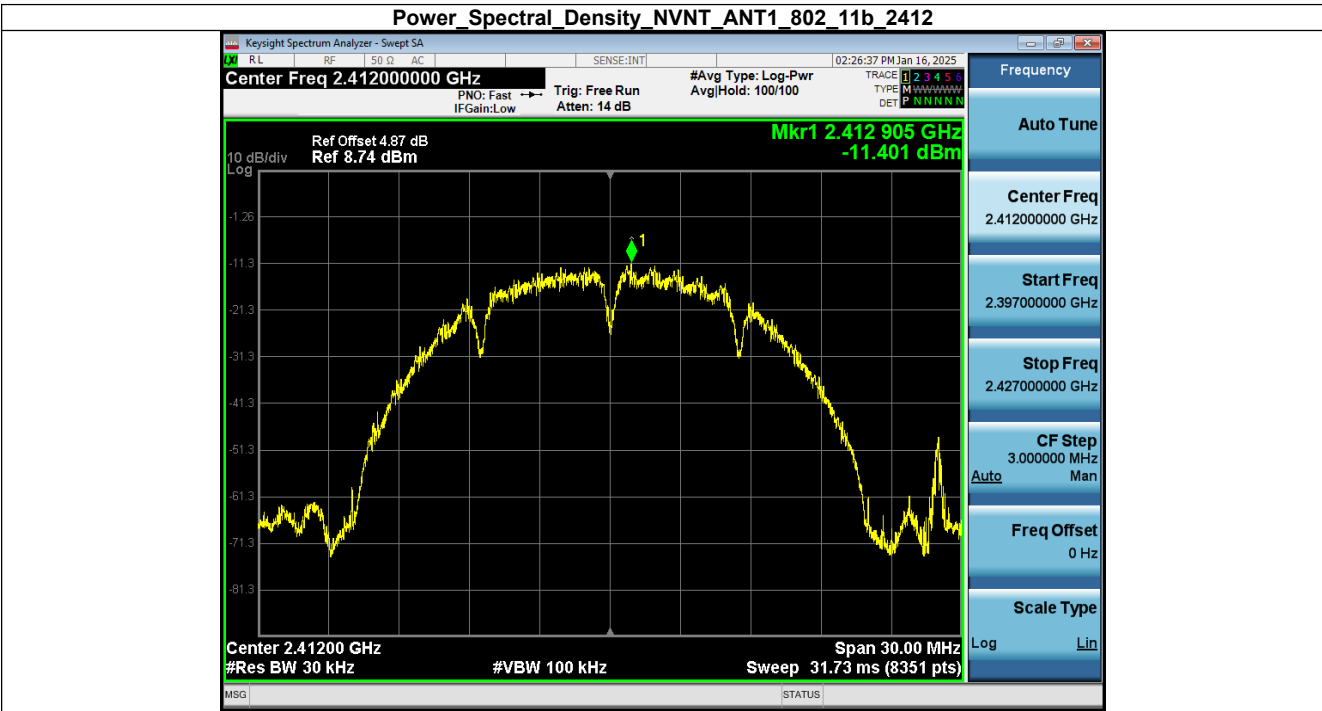


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



5. Power Spectral Density

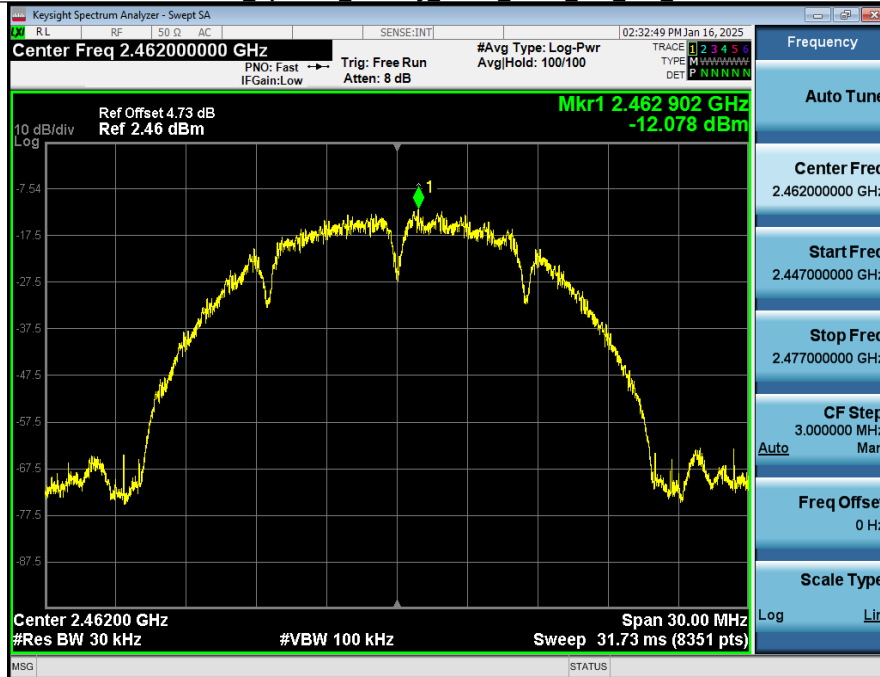
Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-11.40	-10.00	-21.40	8	Pass
NVNT	ANT1	802.11b	2437.00	-12.11	-10.00	-22.11	8	Pass
NVNT	ANT1	802.11b	2462.00	-12.08	-10.00	-22.08	8	Pass
NVNT	ANT1	802.11g	2412.00	-16.96	-10.00	-26.96	8	Pass
NVNT	ANT1	802.11g	2437.00	-16.59	-10.00	-26.59	8	Pass
NVNT	ANT1	802.11g	2462.00	-16.01	-10.00	-26.01	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-16.69	-10.00	-26.69	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-16.00	-10.00	-26.00	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-15.85	-10.00	-25.85	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-19.26	-10.00	-29.26	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-18.78	-10.00	-28.78	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-20.15	-10.00	-30.15	8	Pass



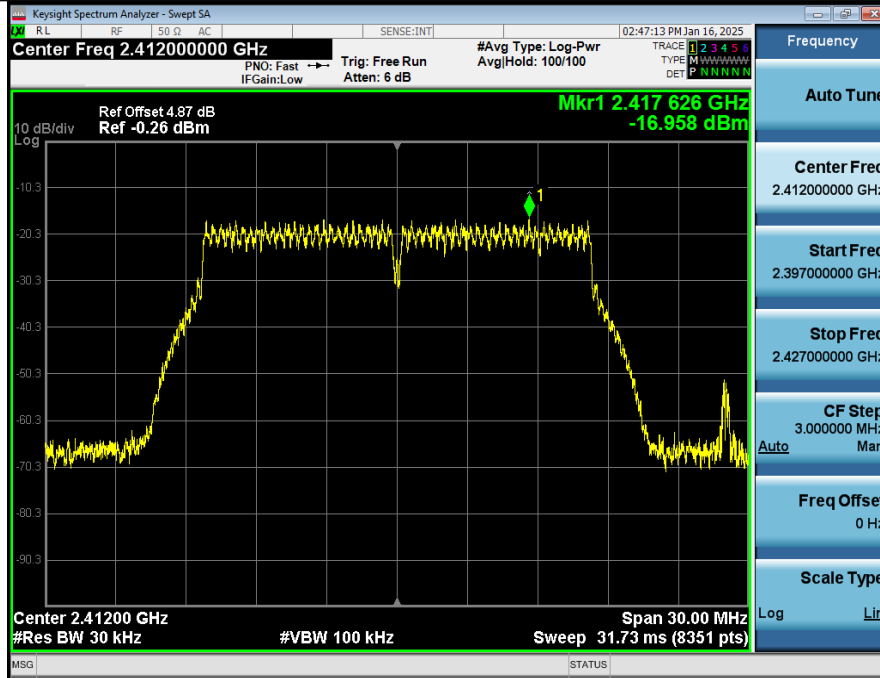
Power Spectral Density NVNT_ANT1_802_11b_2437



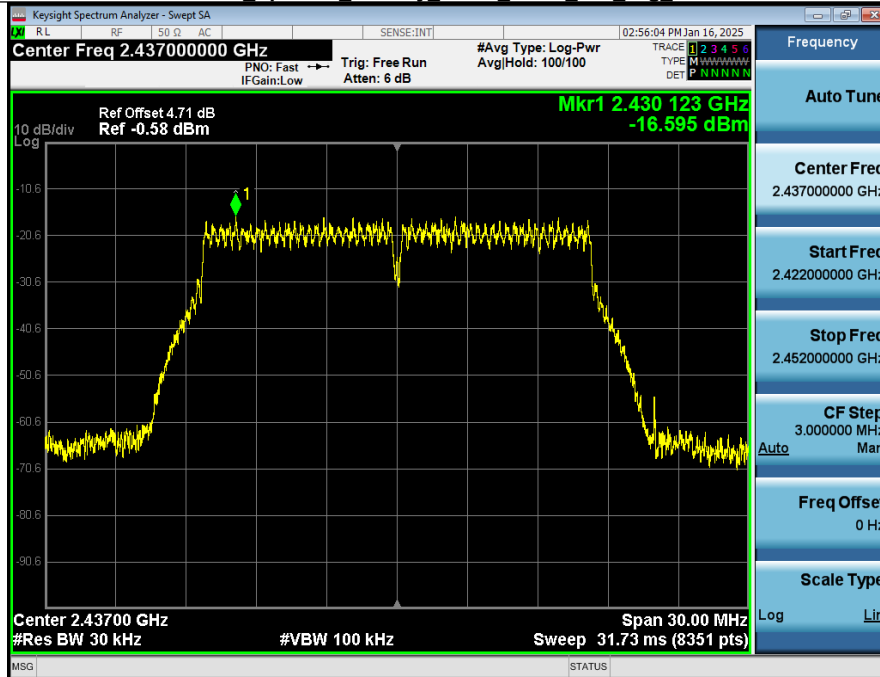
Power Spectral Density NVNT_ANT1_802_11b_2462



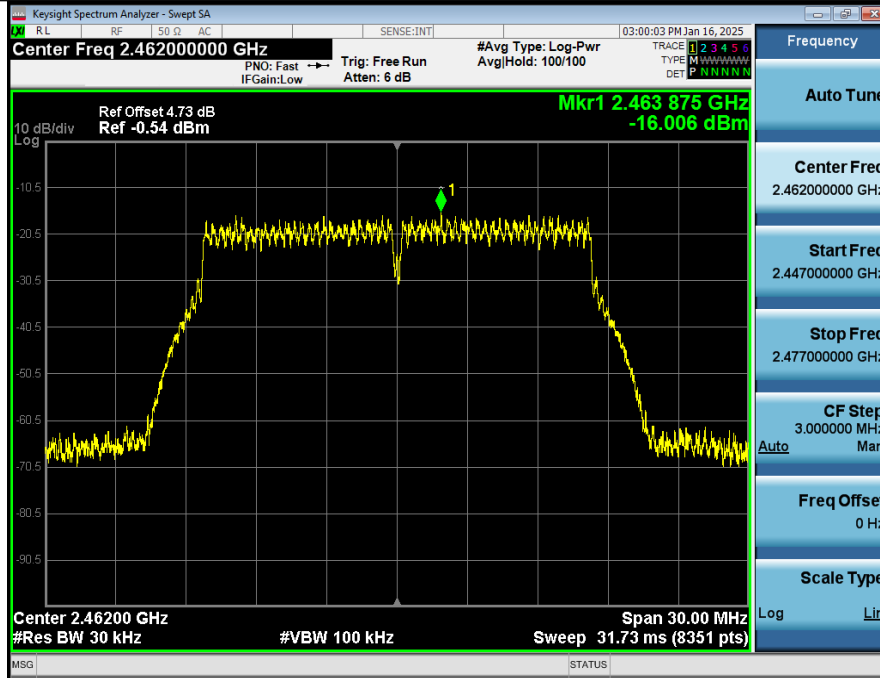
Power Spectral Density NVNT_ANT1_802_11g_2412



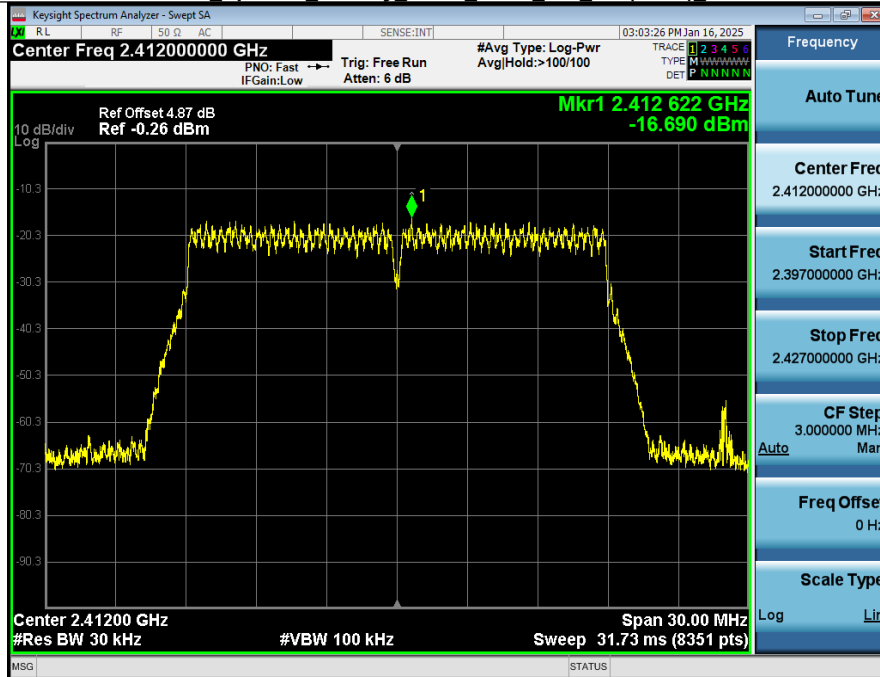
Power Spectral Density NVNT_ANT1_802_11g_2437



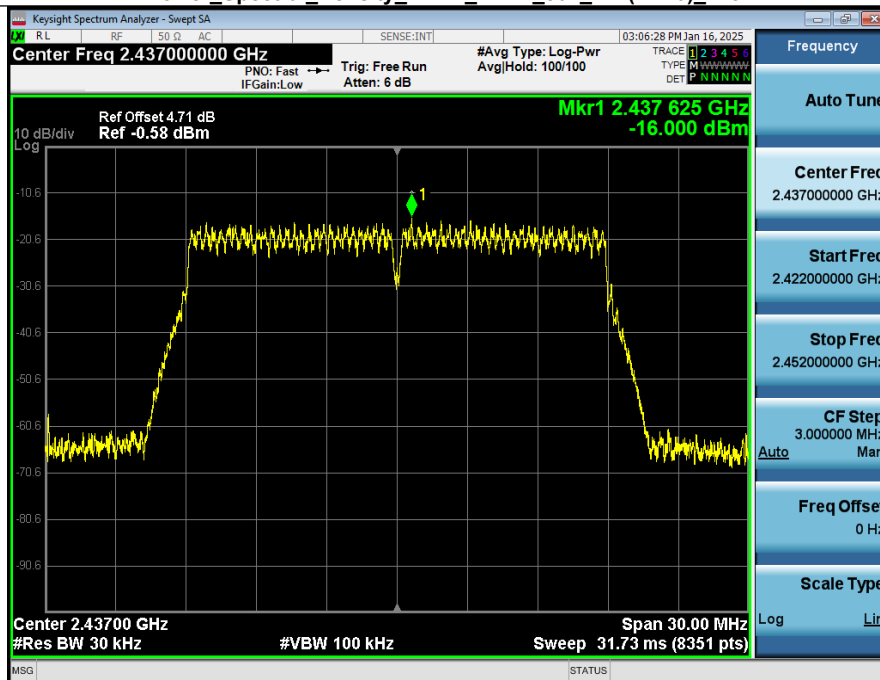
Power Spectral Density NVNT_ANT1_802_11g_2462



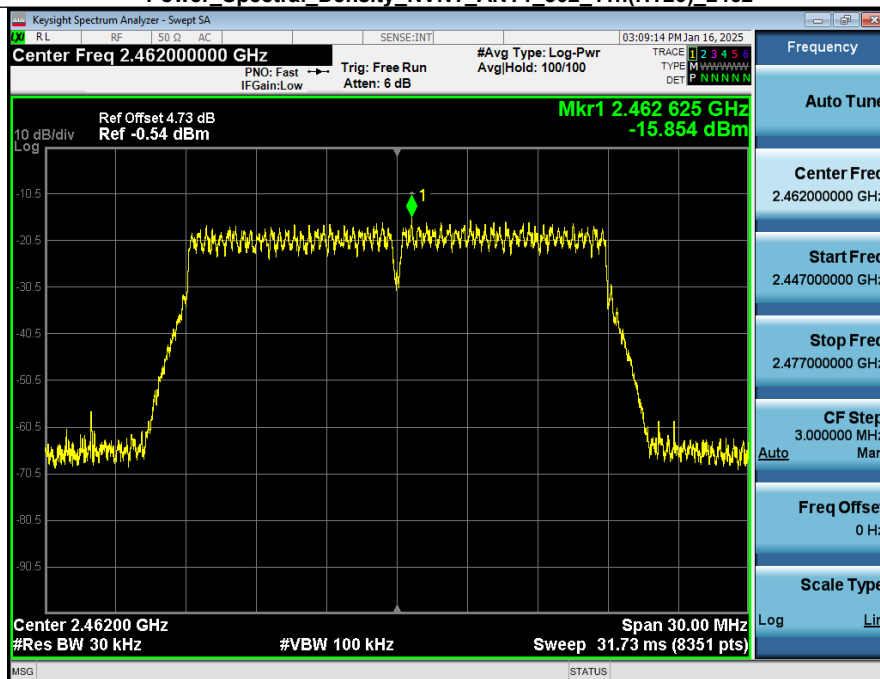
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



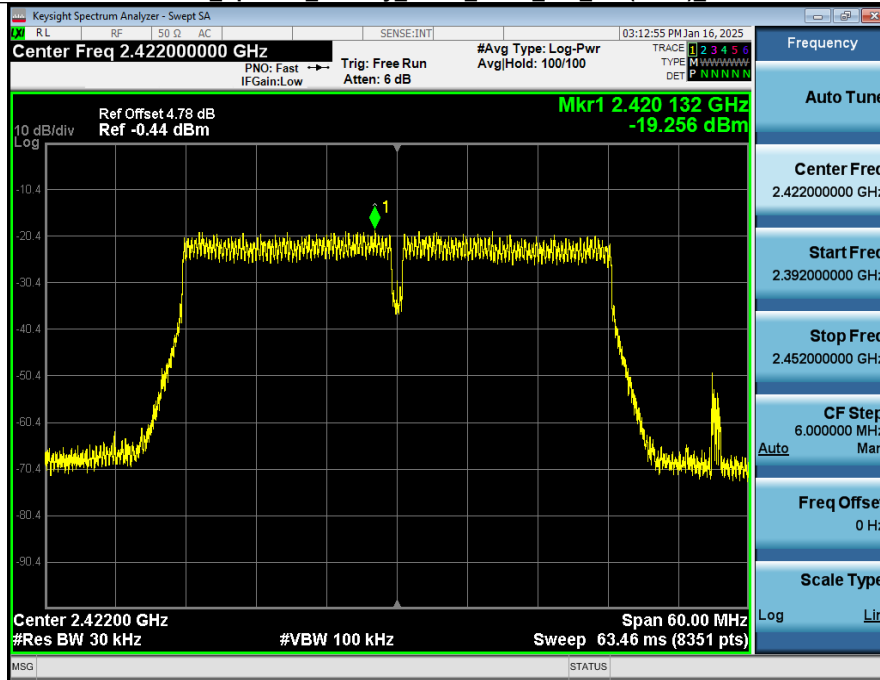
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437



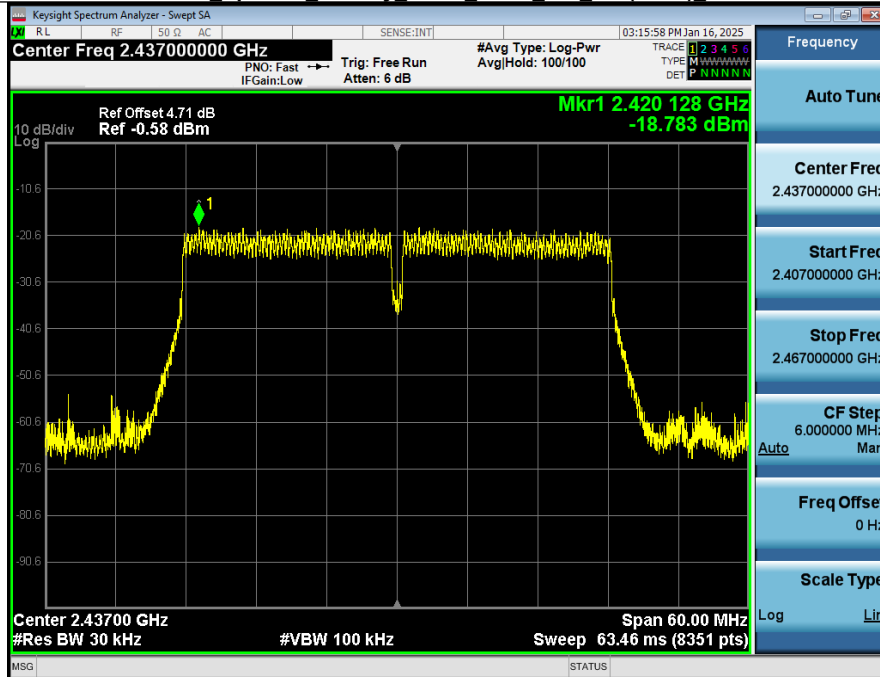
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2462



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422

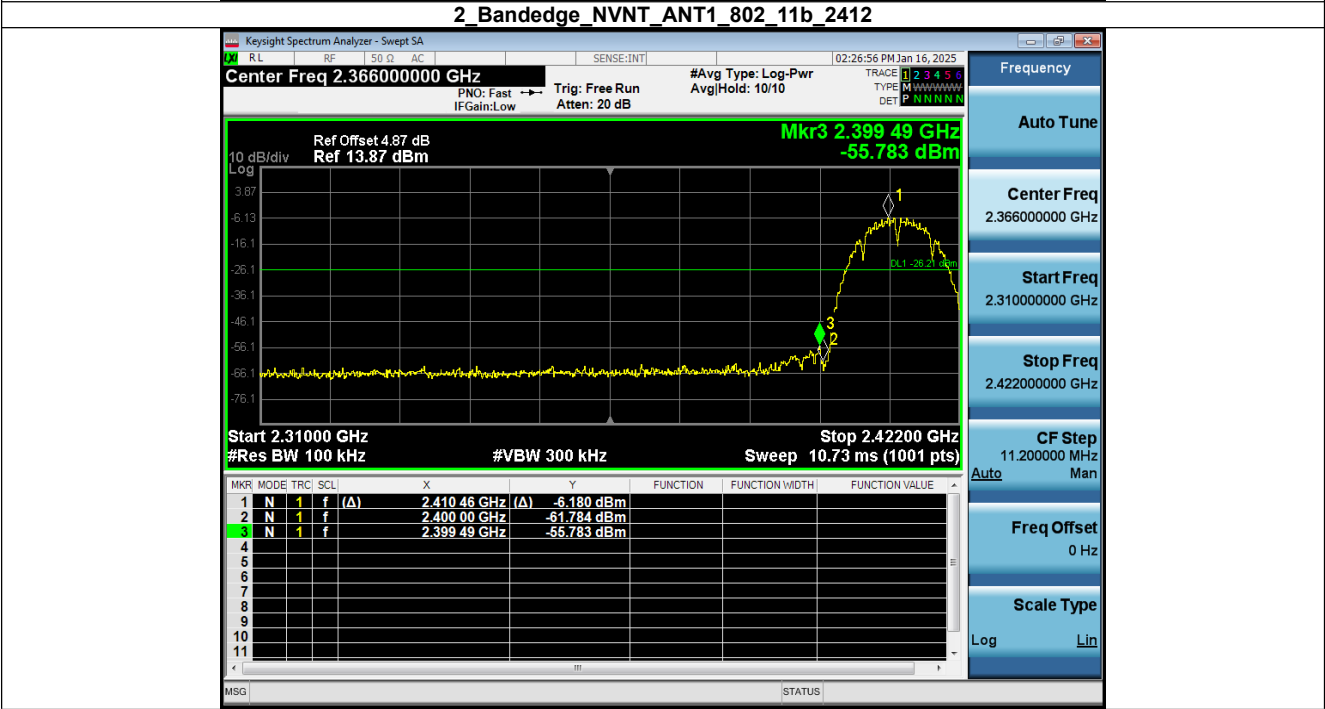
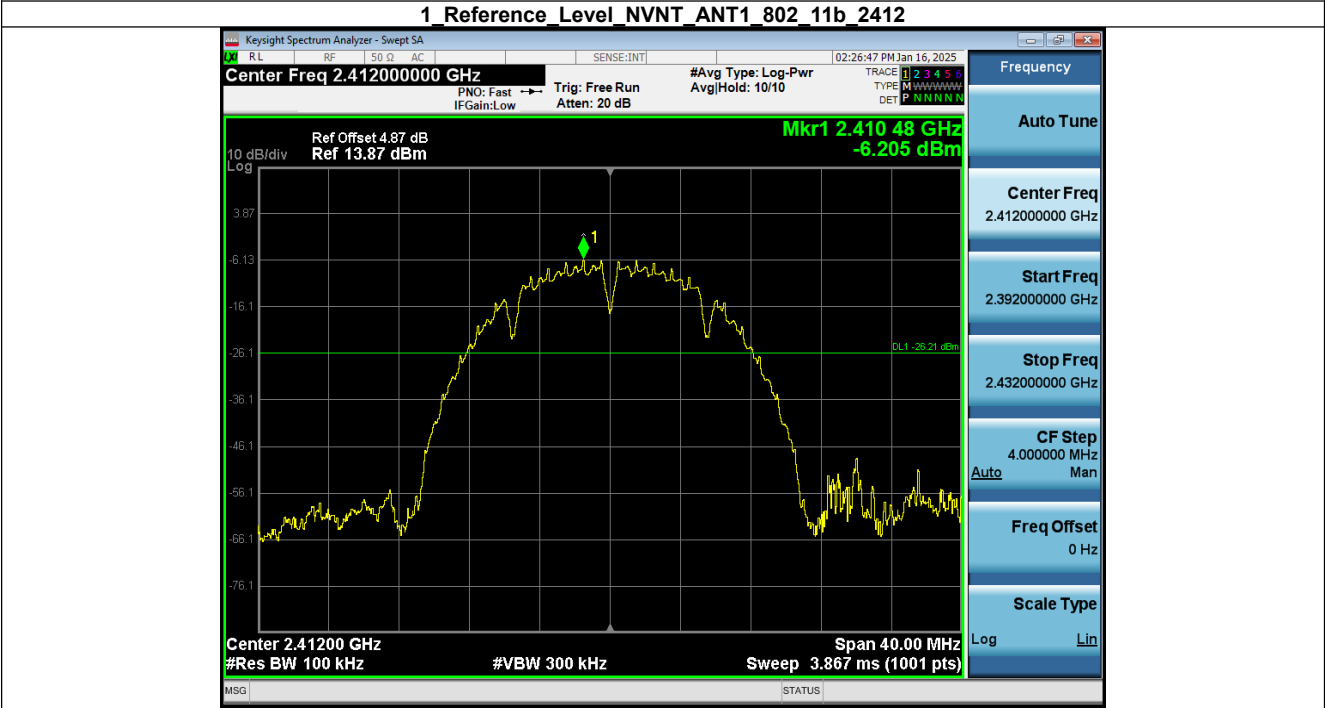


Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437



6. Bandedge

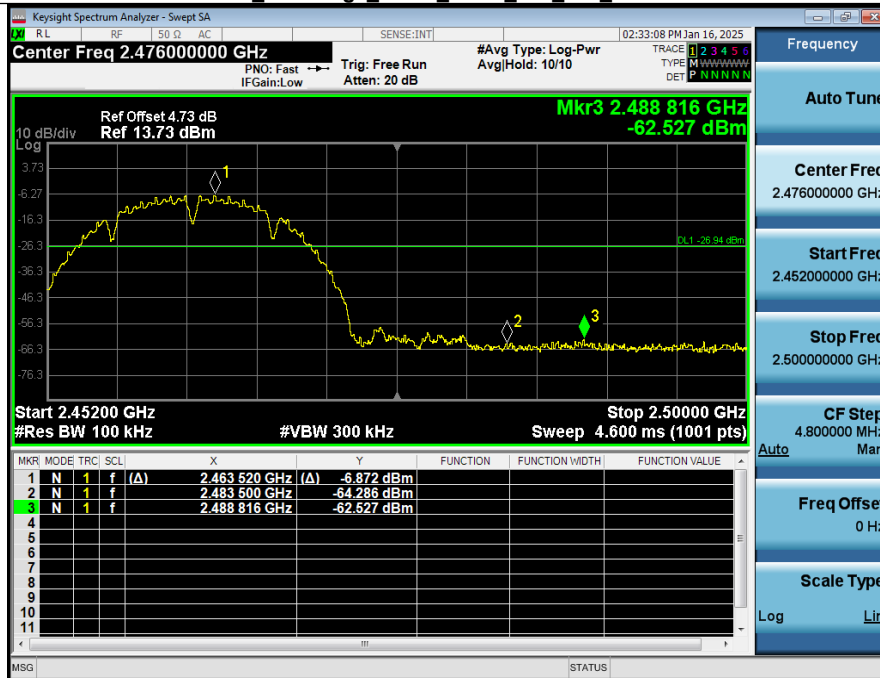
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.488	-6.205	-55.783	-26.205	Pass
NVNT	ANT1	802.11b	2462.00	2488.816	-6.935	-62.527	-26.935	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-14.119	-58.134	-34.119	Pass
NVNT	ANT1	802.11g	2462.00	2491.072	-13.273	-62.885	-33.273	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.600	-14.124	-59.163	-34.124	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2498.032	-13.608	-62.620	-33.608	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2397.516	-16.738	-59.239	-36.738	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.612	-17.173	-62.827	-37.173	Pass



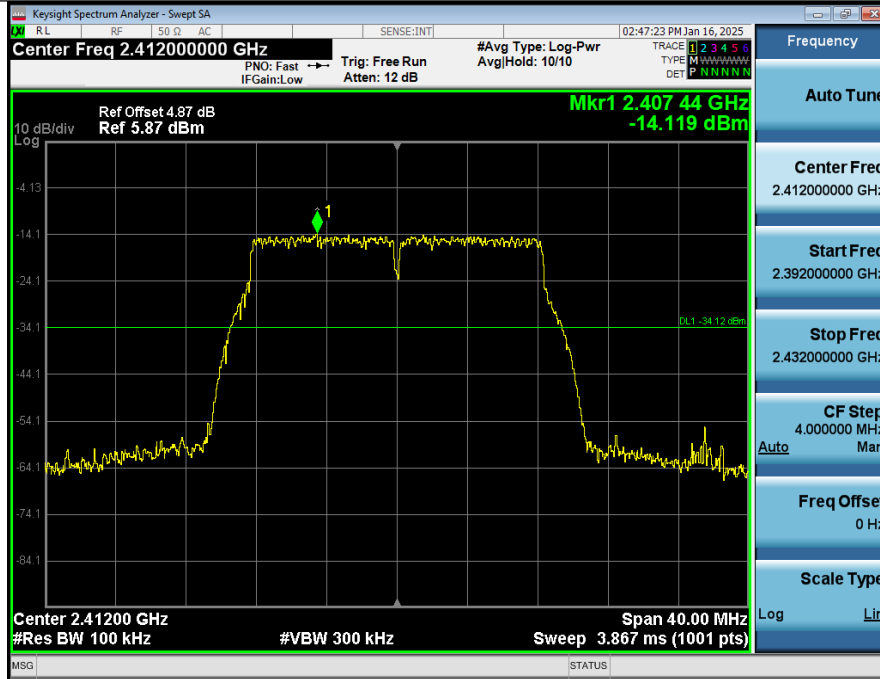
1 Reference Level_NVNT_ANT1_802_11b_2462



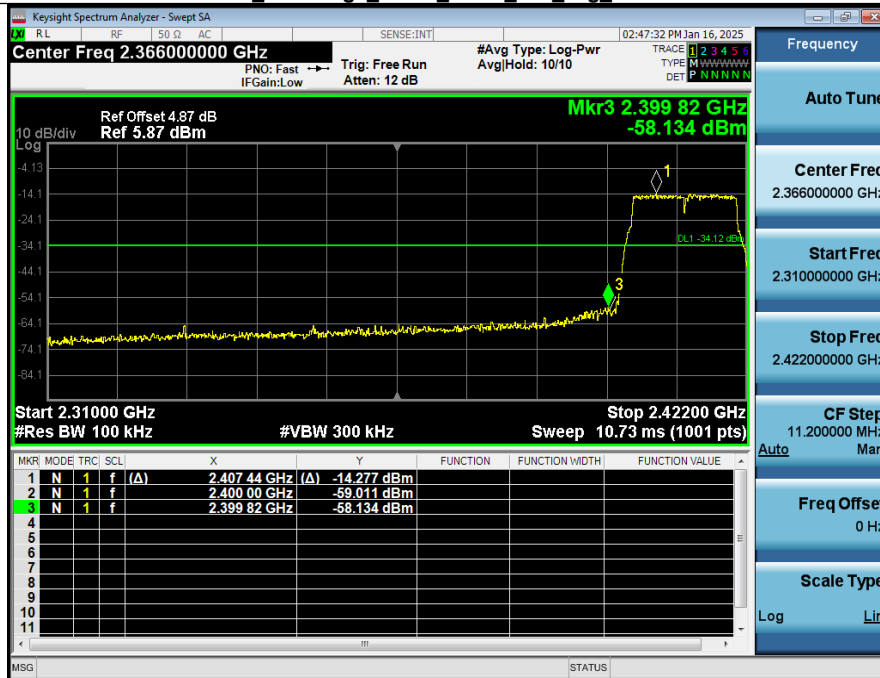
2 Bandedge_NVNT_ANT1_802_11b_2462



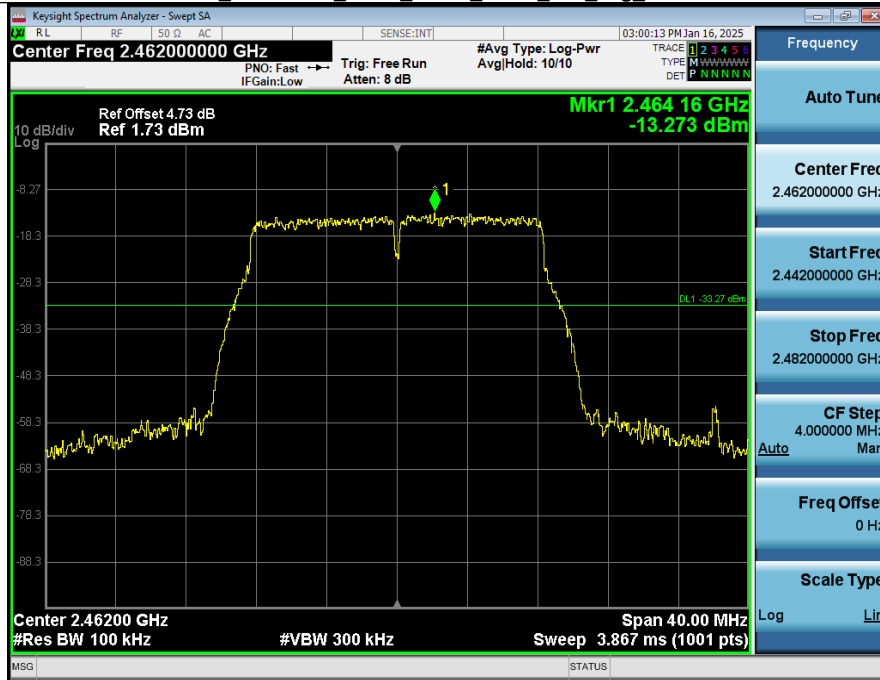
1 Reference Level_NVNT_ANT1_802_11g_2412



2 Bandedge_NVNT_ANT1_802_11g_2412



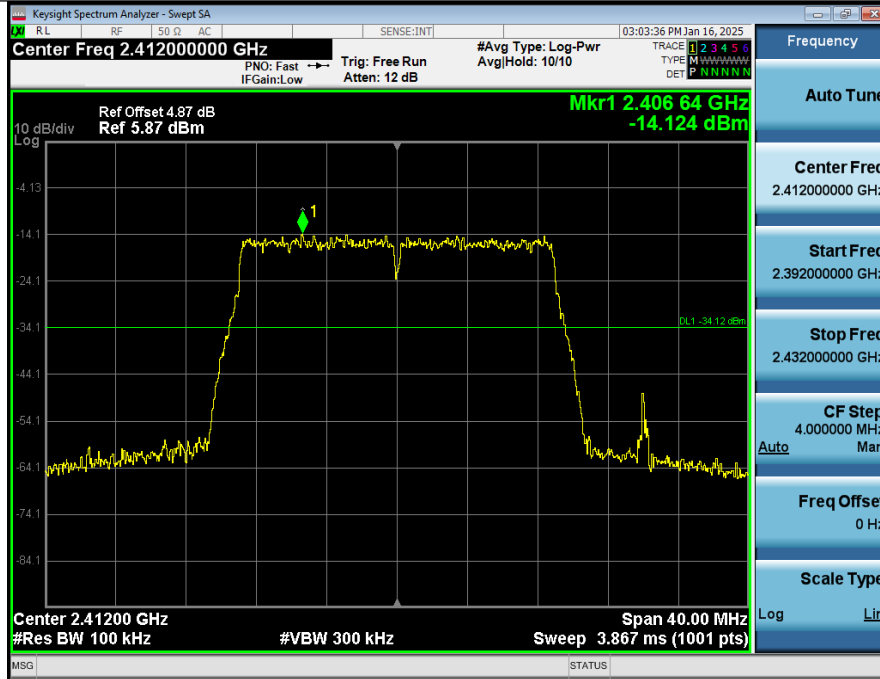
1_Reference_Level_NVNT_ANT1_802_11g_2462



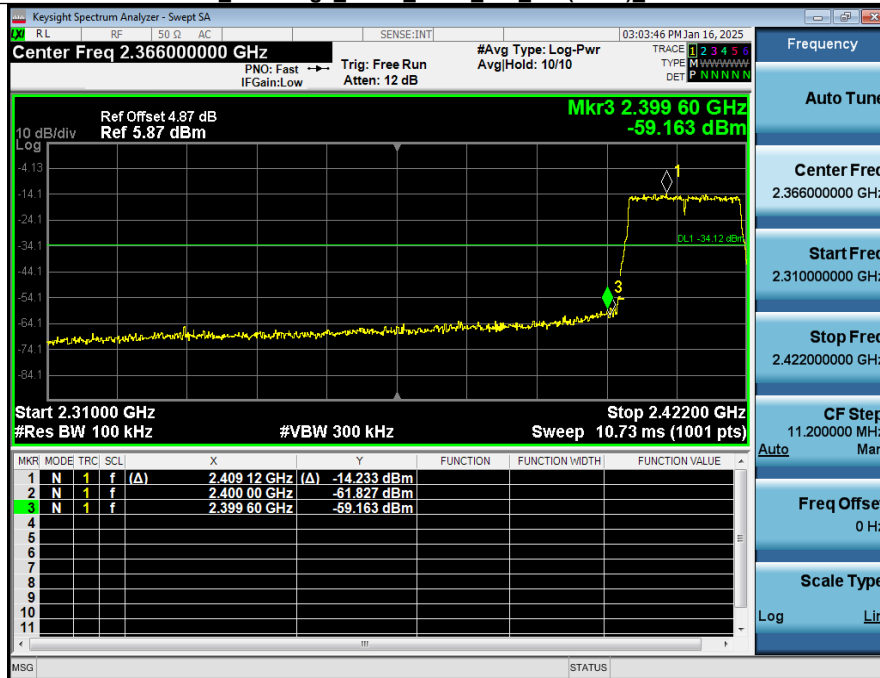
2_Bandedge_NVNT_ANT1_802_11g_2462



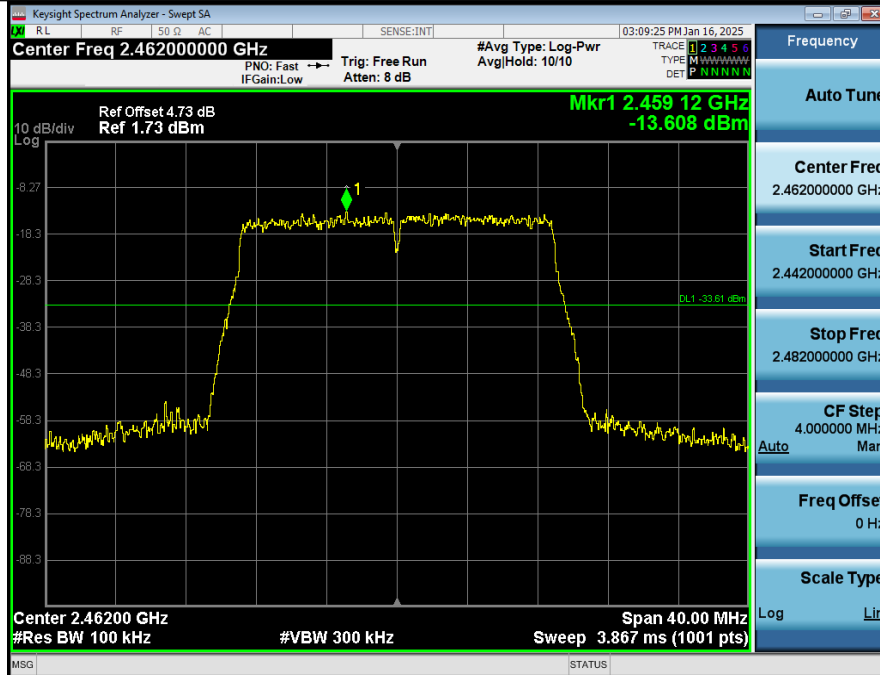
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



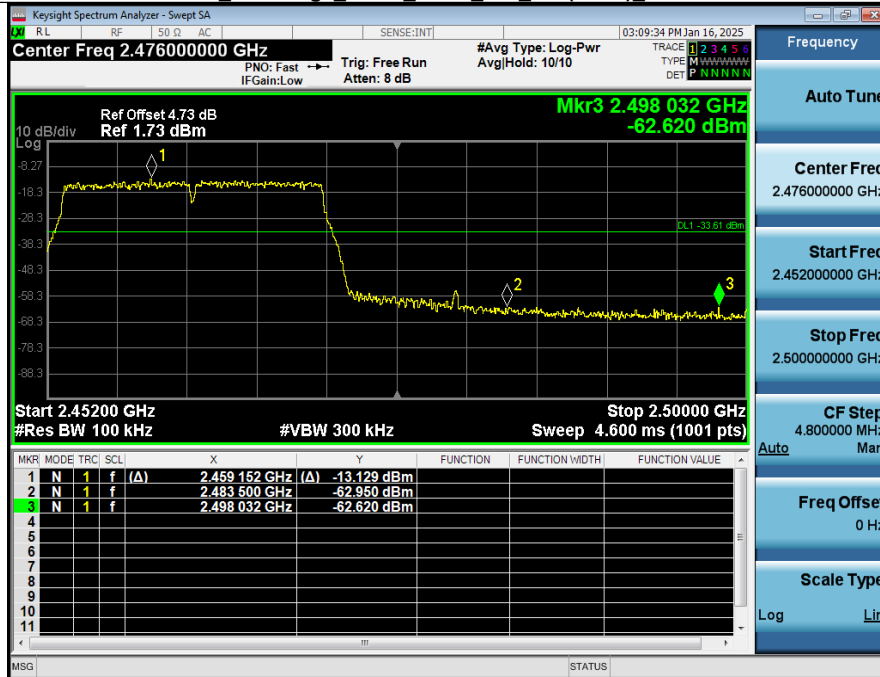
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



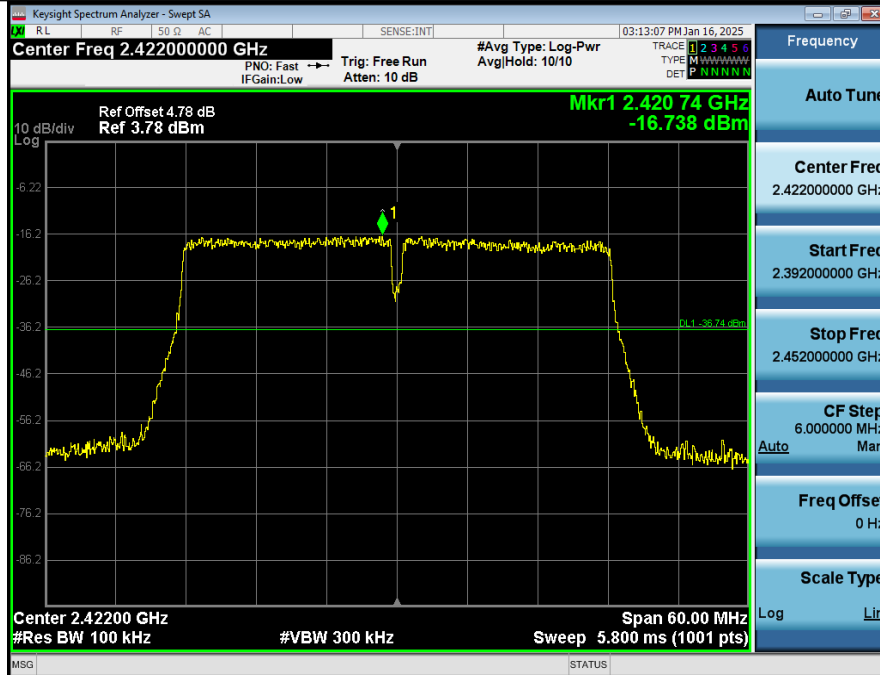
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



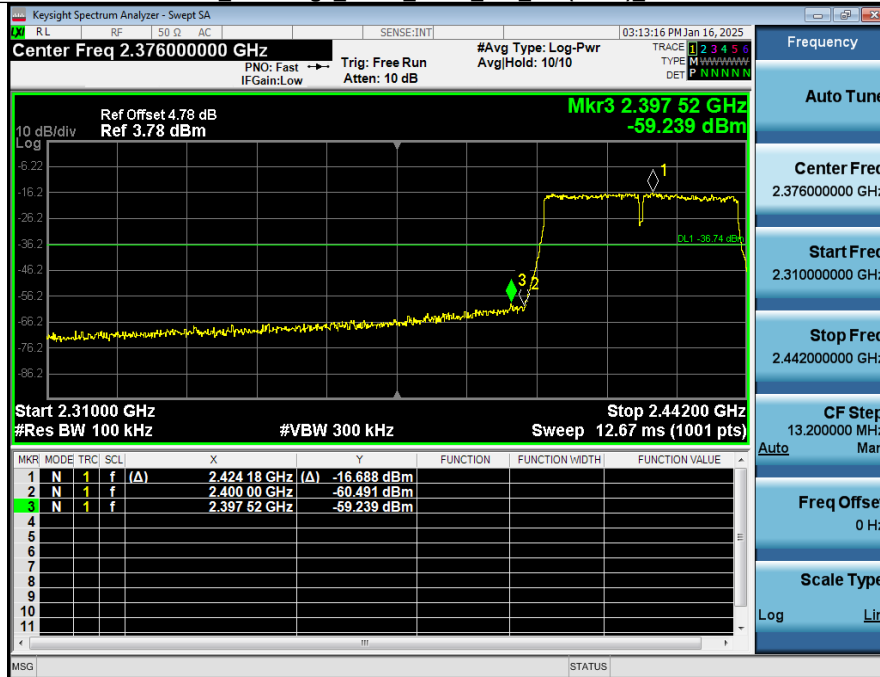
2 Bandedge NVNT_ANT1_802_11n(HT20)_2462



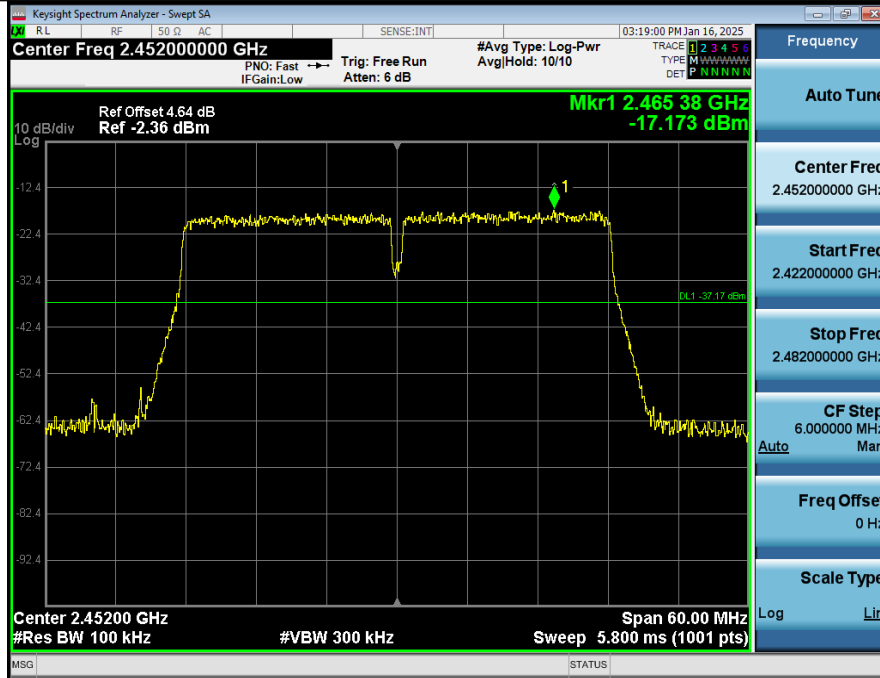
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



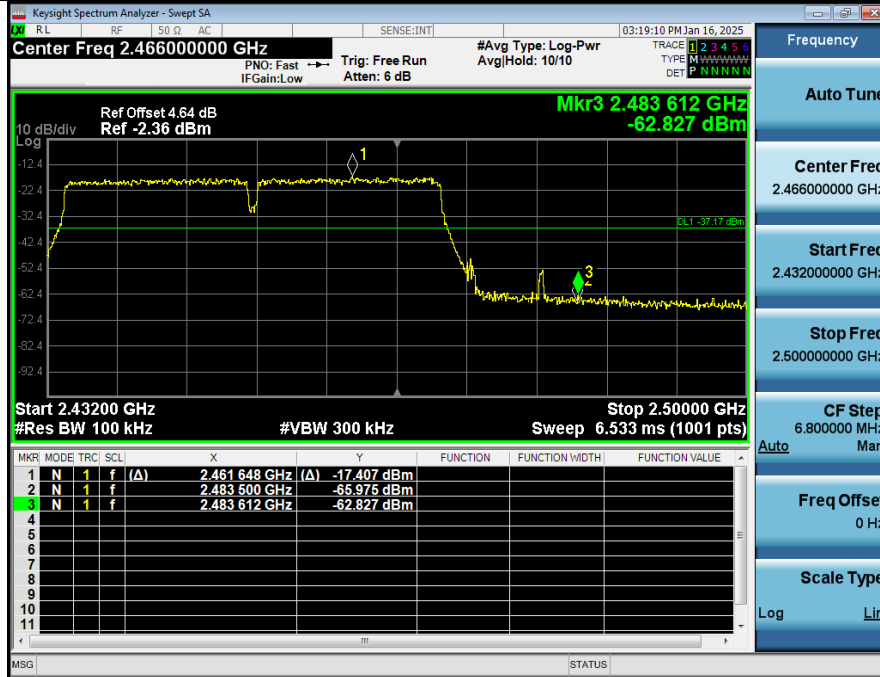
2 Bandedge NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452

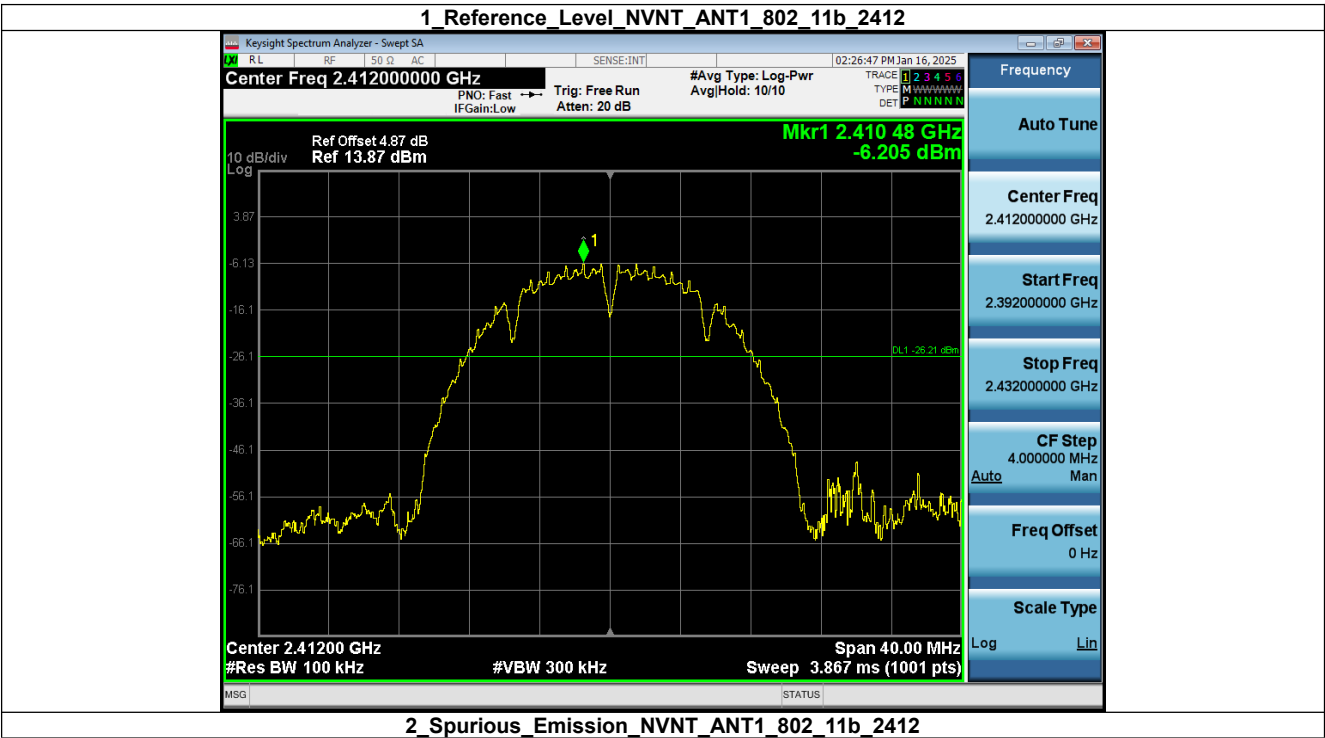


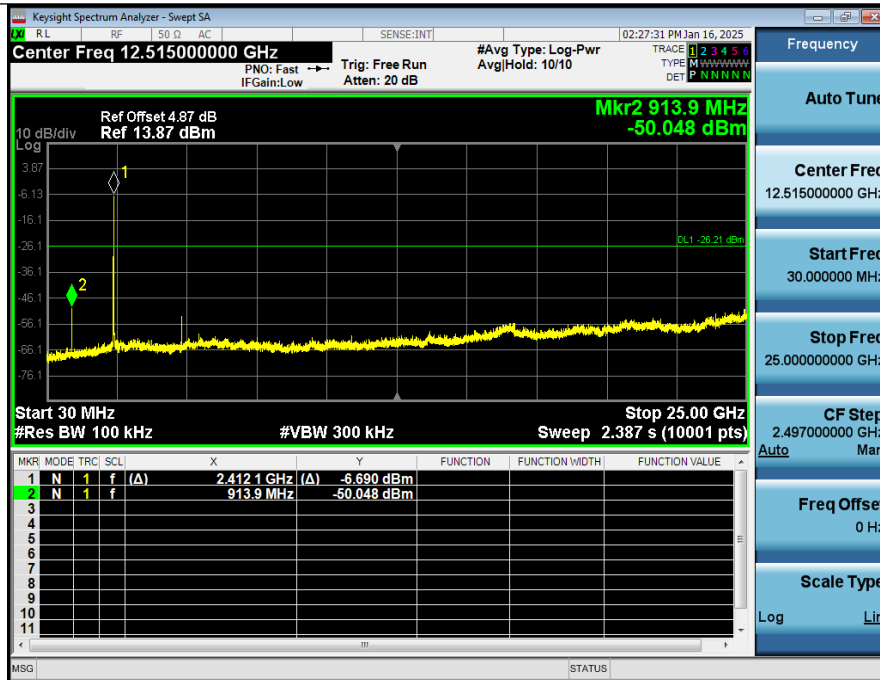
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



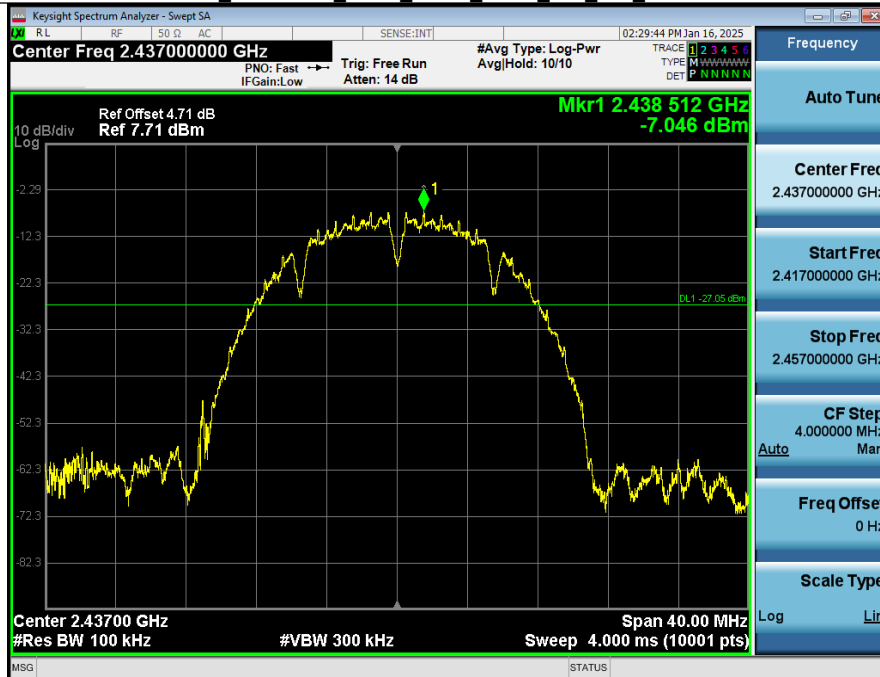
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	913.938	-6.205	-50.048	-26.205	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	-7.046	-53.779	-27.046	Pass
NVNT	ANT1	802.11b	2462.00	24987.515	-6.935	-50.817	-26.935	Pass
NVNT	ANT1	802.11g	2412.00	893.962	-14.119	-54.826	-34.119	Pass
NVNT	ANT1	802.11g	2437.00	24990.012	-13.838	-61.955	-33.838	Pass
NVNT	ANT1	802.11g	2462.00	911.441	-13.273	-59.071	-33.273	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24513.085	-14.124	-58.989	-34.124	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	911.441	-13.578	-45.843	-33.578	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24345.786	-13.608	-62.861	-33.608	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24990.012	-16.738	-61.502	-36.738	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24865.162	-16.151	-61.714	-36.151	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24957.551	-17.173	-64.182	-37.173	Pass

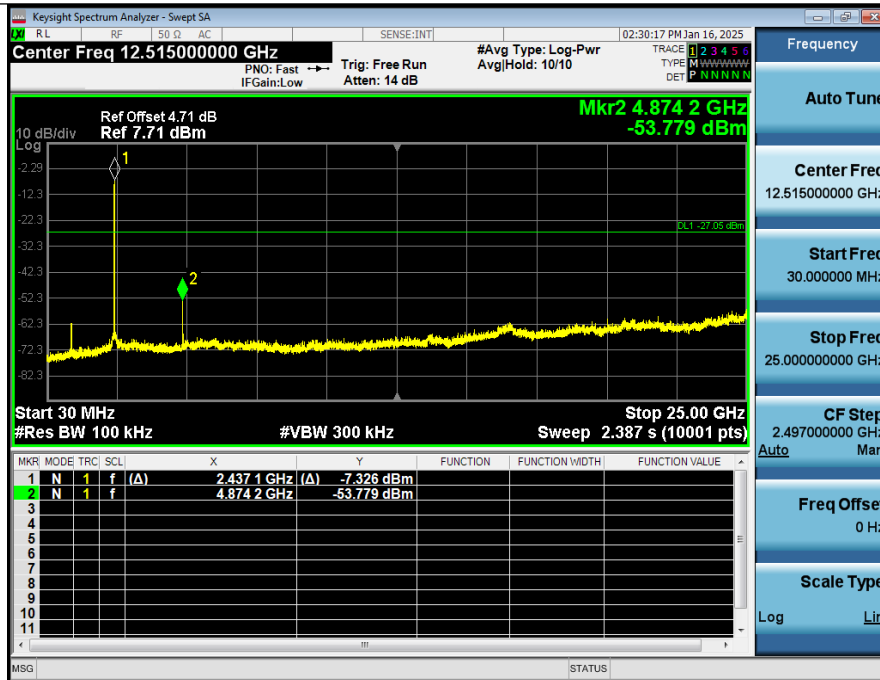




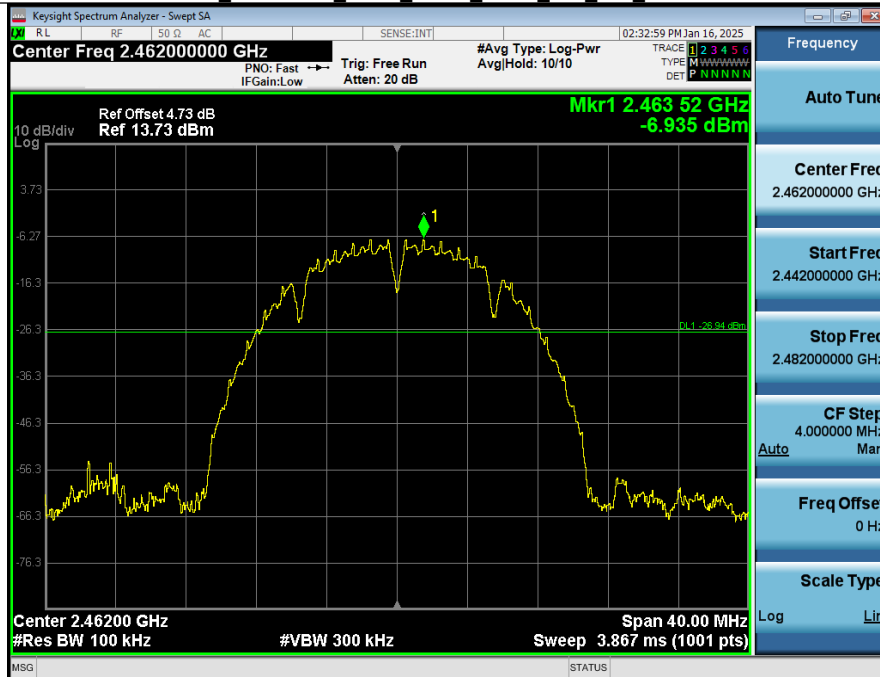
1 Reference Level NVNT_ANT1_802_11b_2437



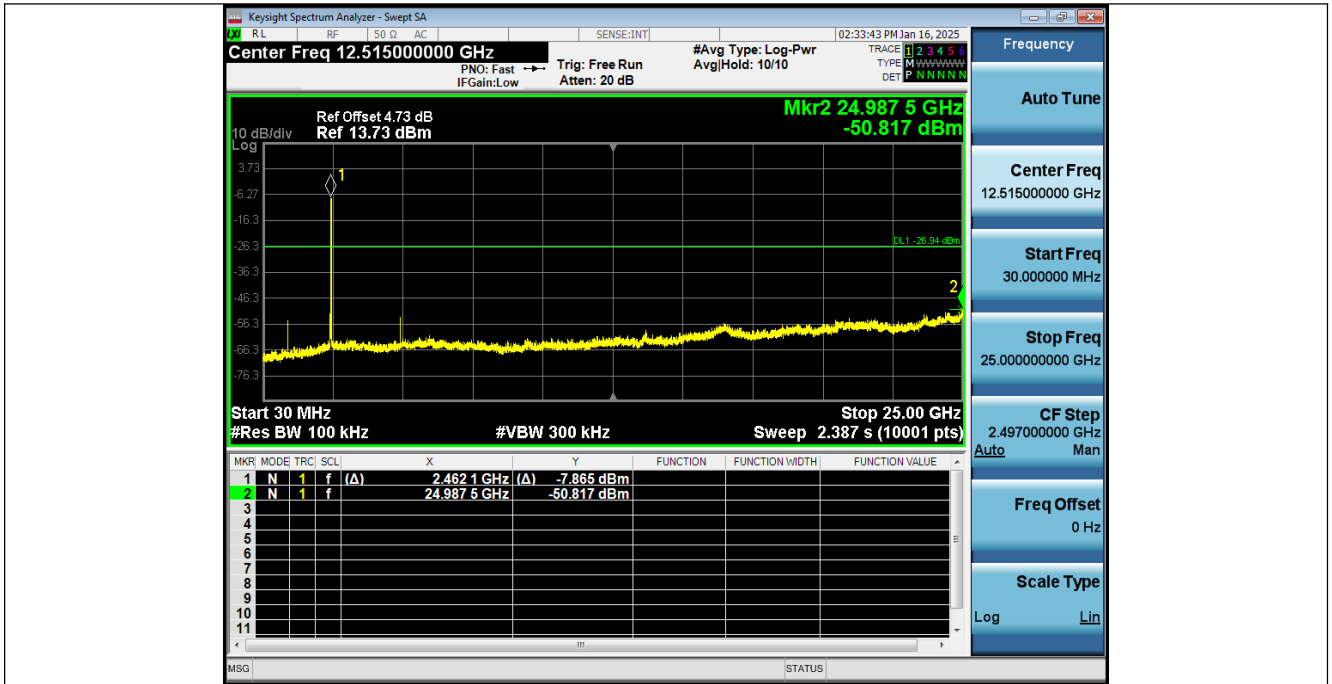
2 Spurious_Emission_NVNT_ANT1_802_11b_2437



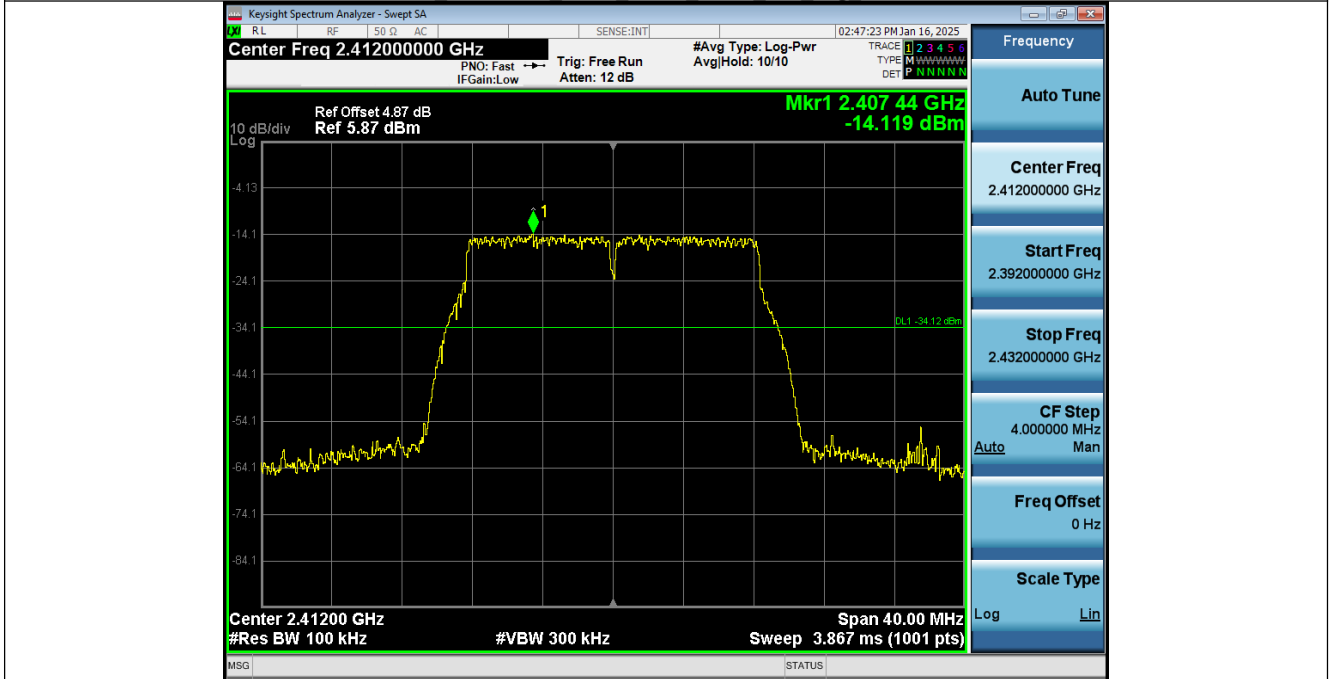
1 Reference Level NVNT_ANT1_802_11b_2462



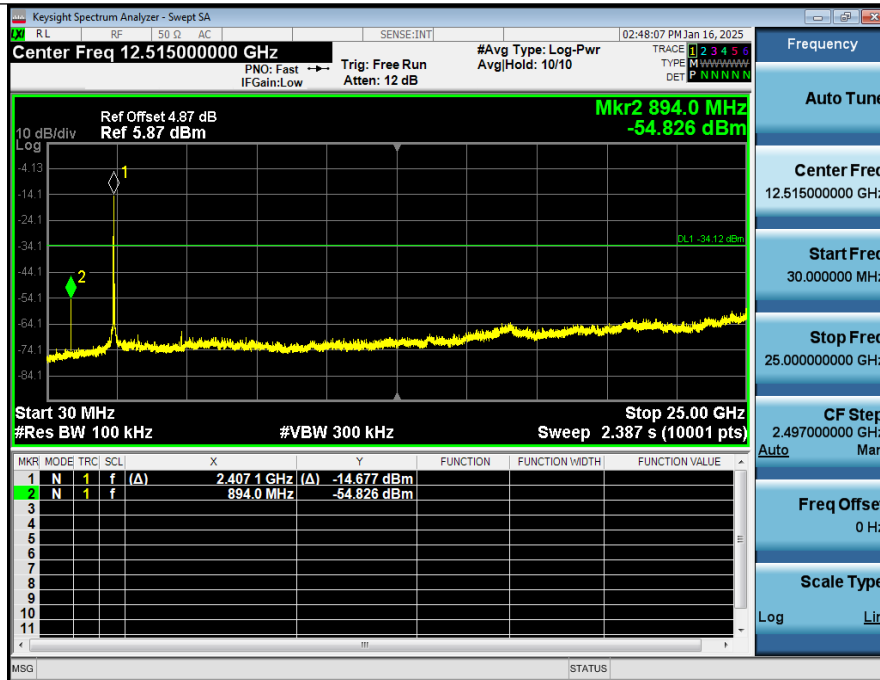
2 Spurious Emission NVNT_ANT1_802_11b_2462



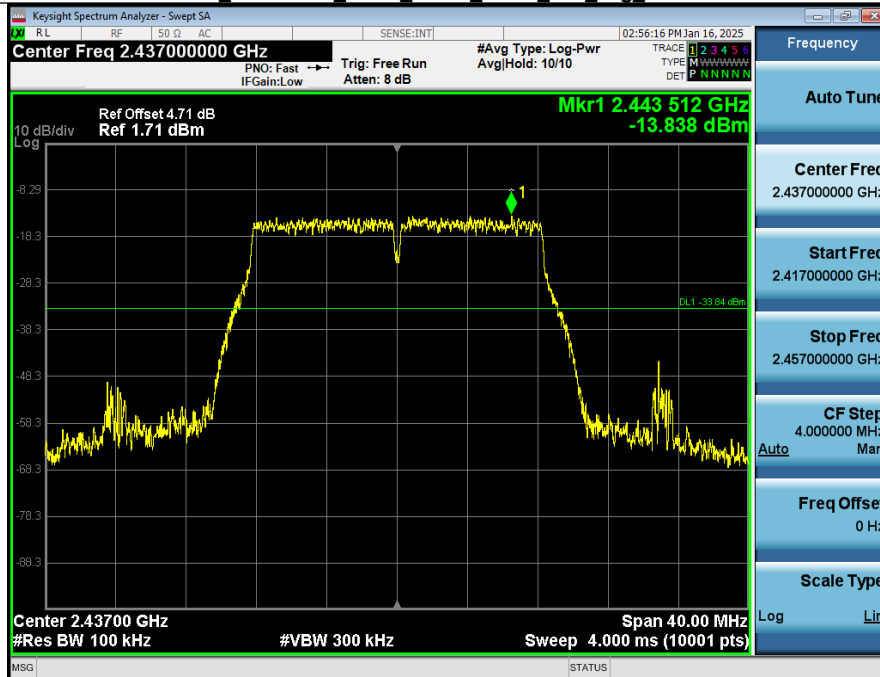
1 Reference Level NVNT_ANT1_802_11g_2412



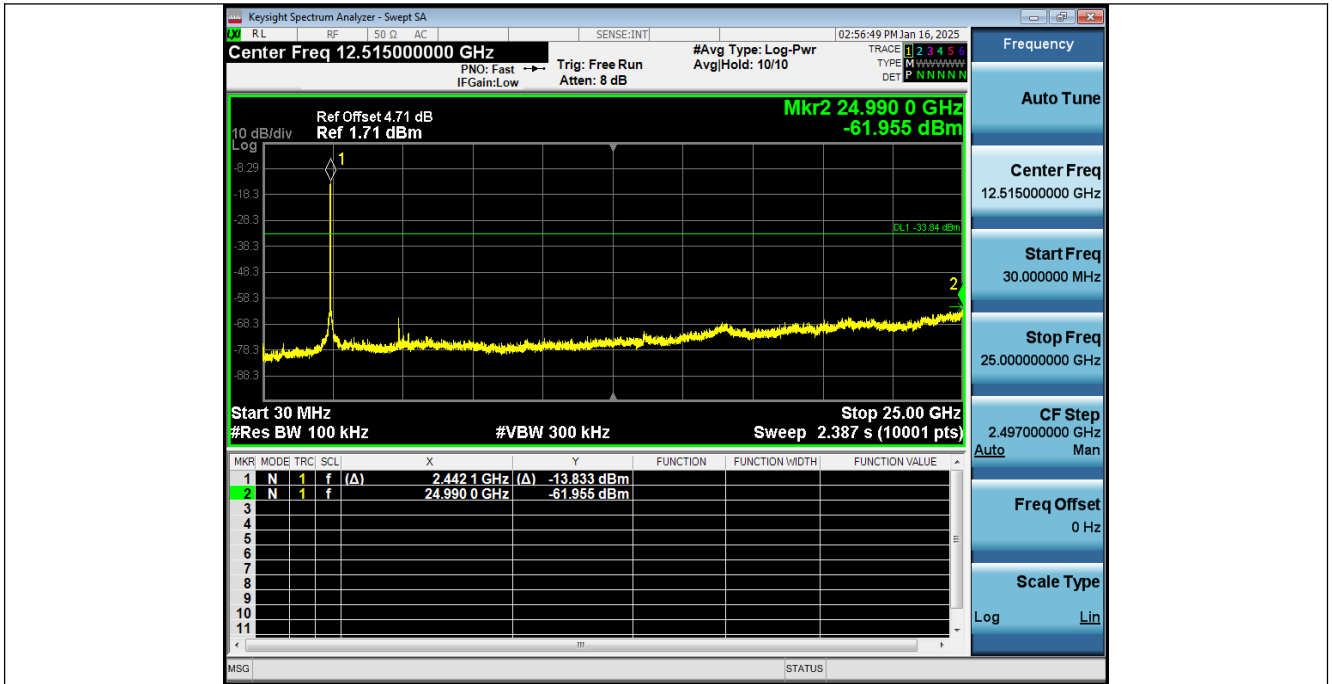
2 Spurious_Emission_NVNT_ANT1_802_11g_2412



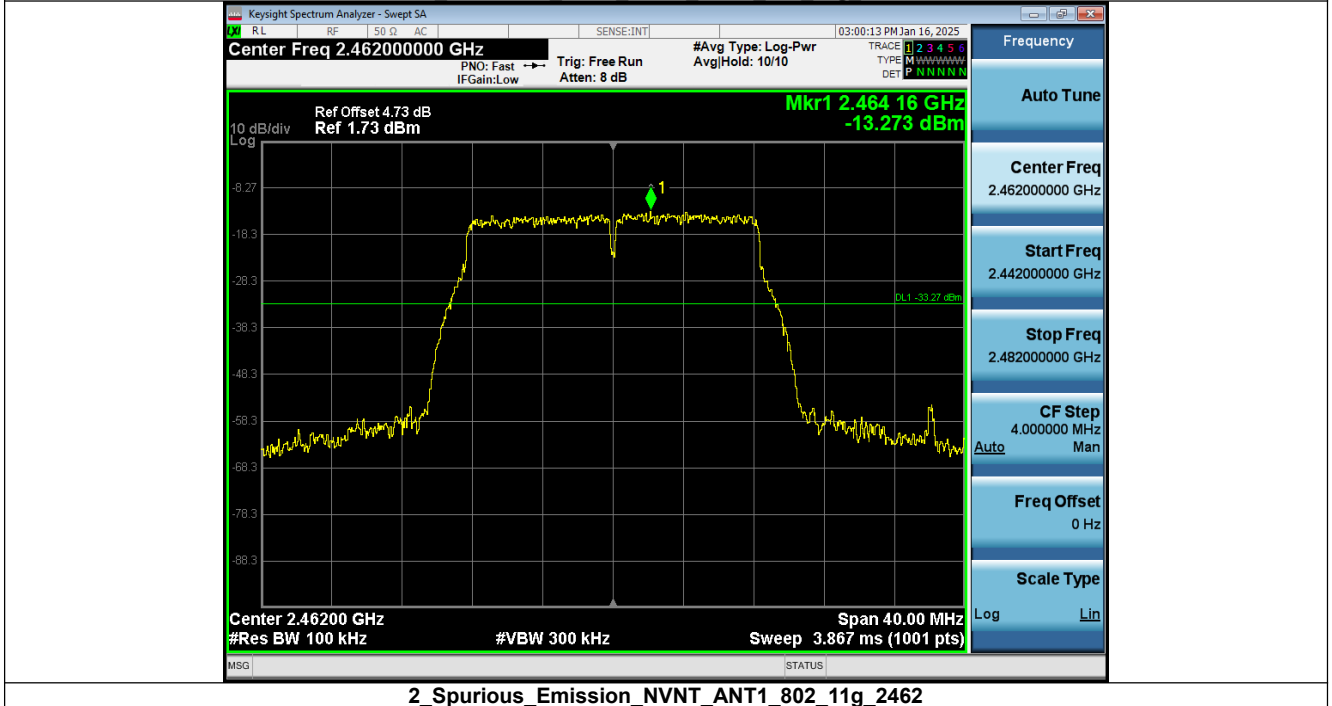
1 Reference Level NVNT_ANT1_802_11g_2437



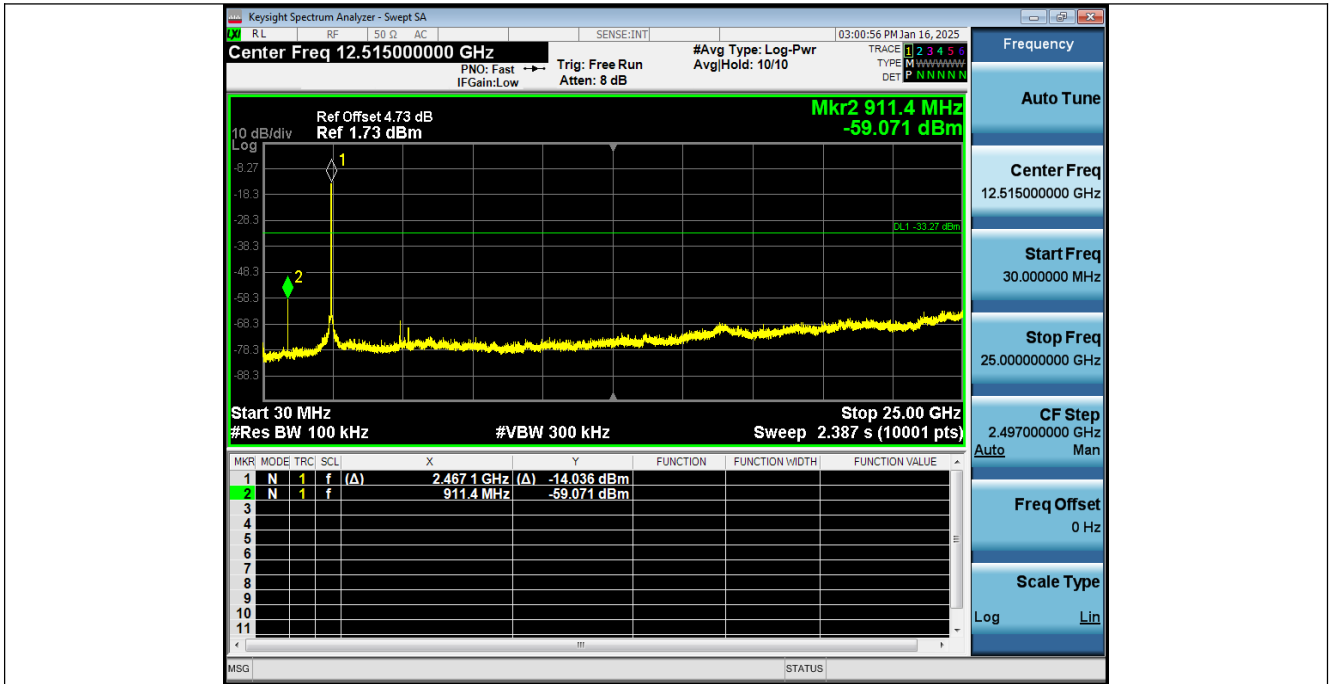
2 Spurious_Emission_NVNT_ANT1_802_11g_2437



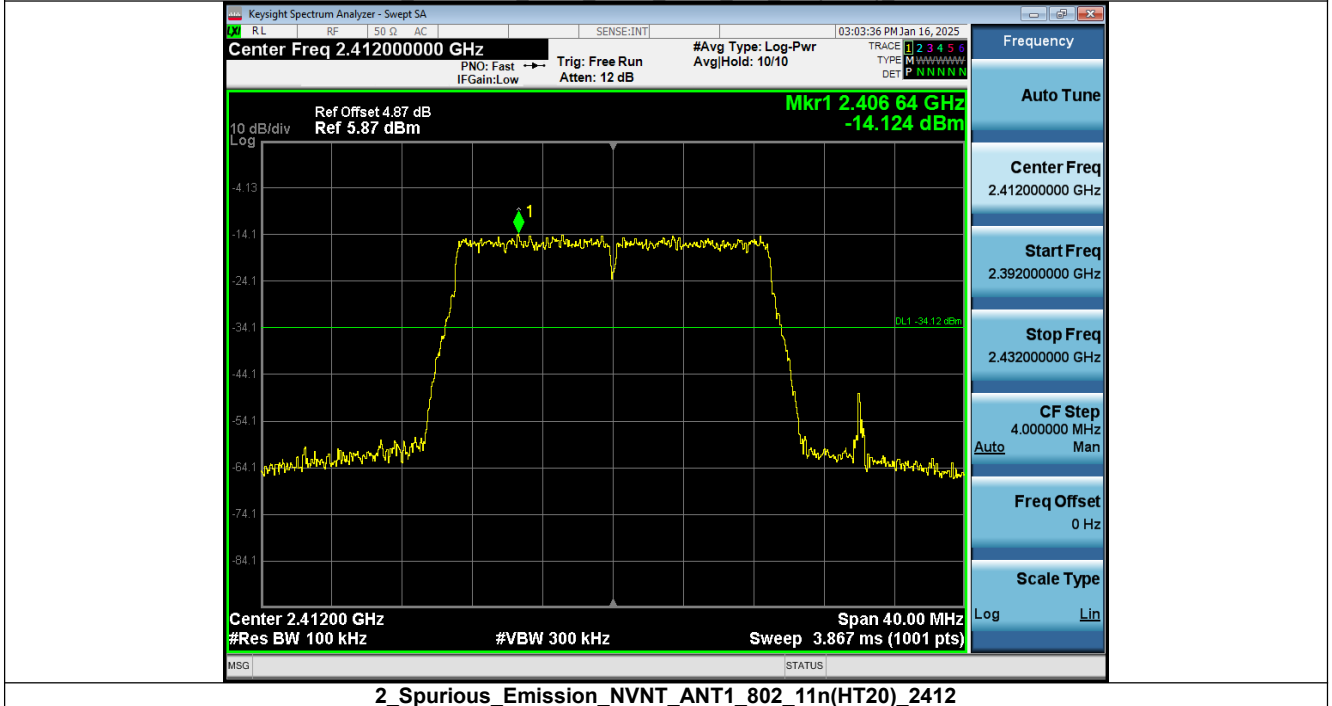
1 Reference Level NVNT_ANT1_802_11g_2462



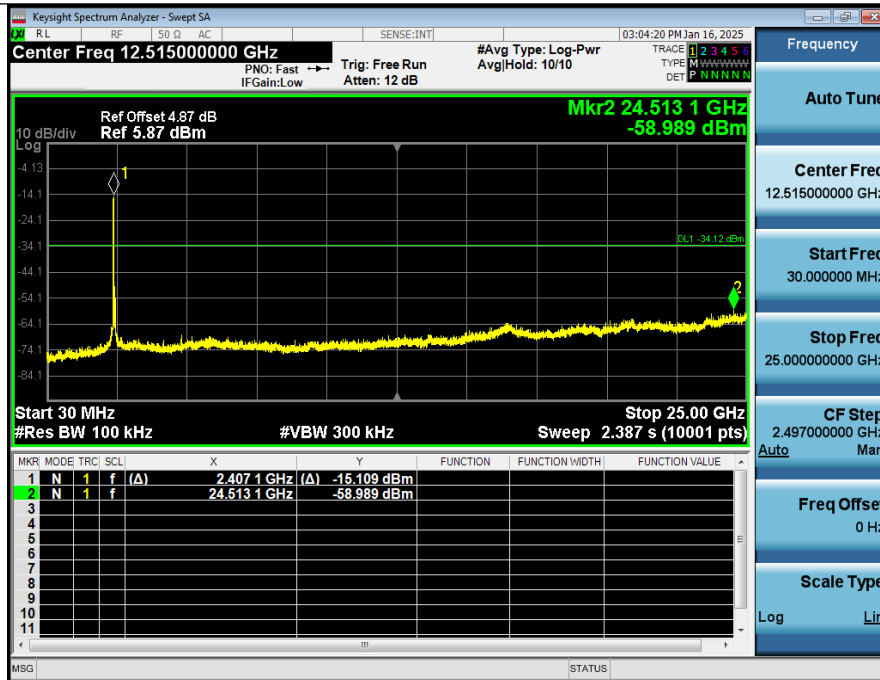
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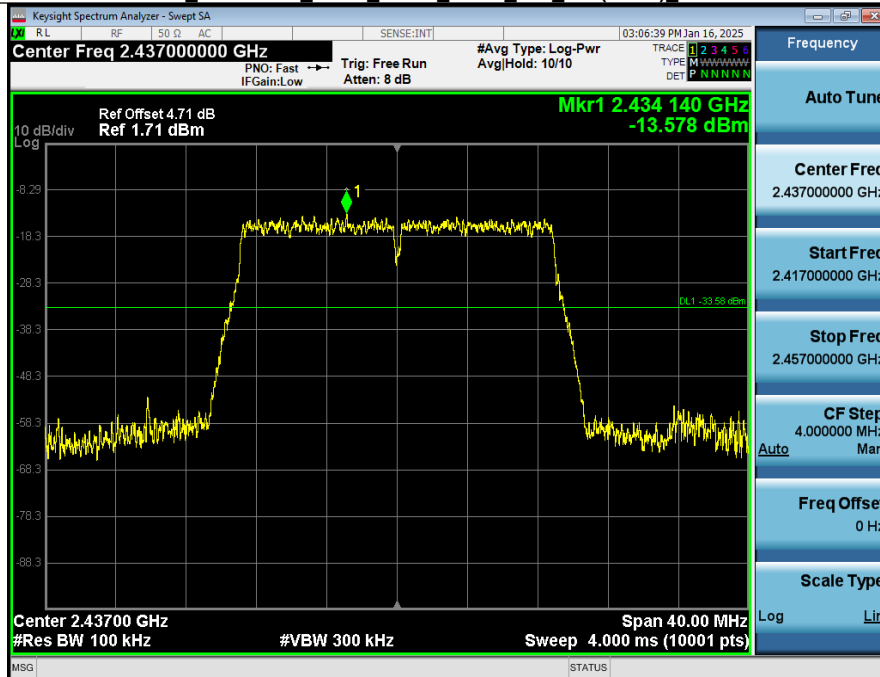
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



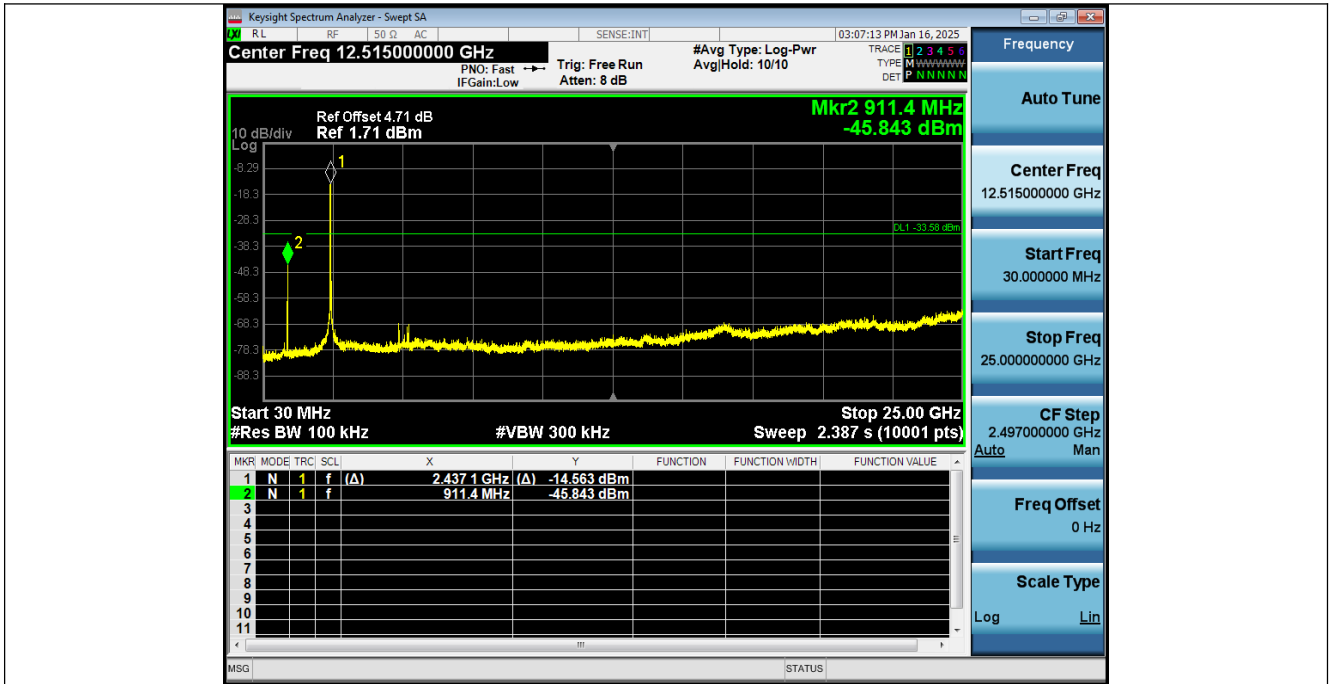
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



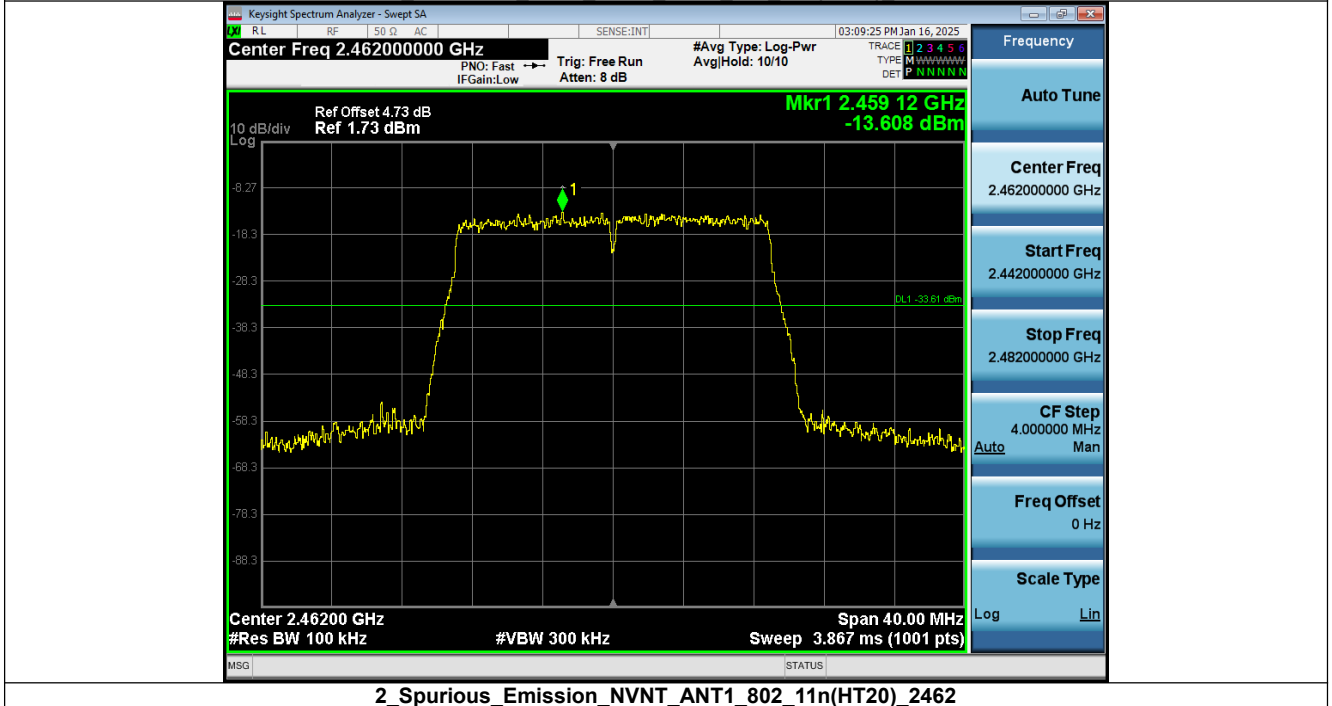
1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



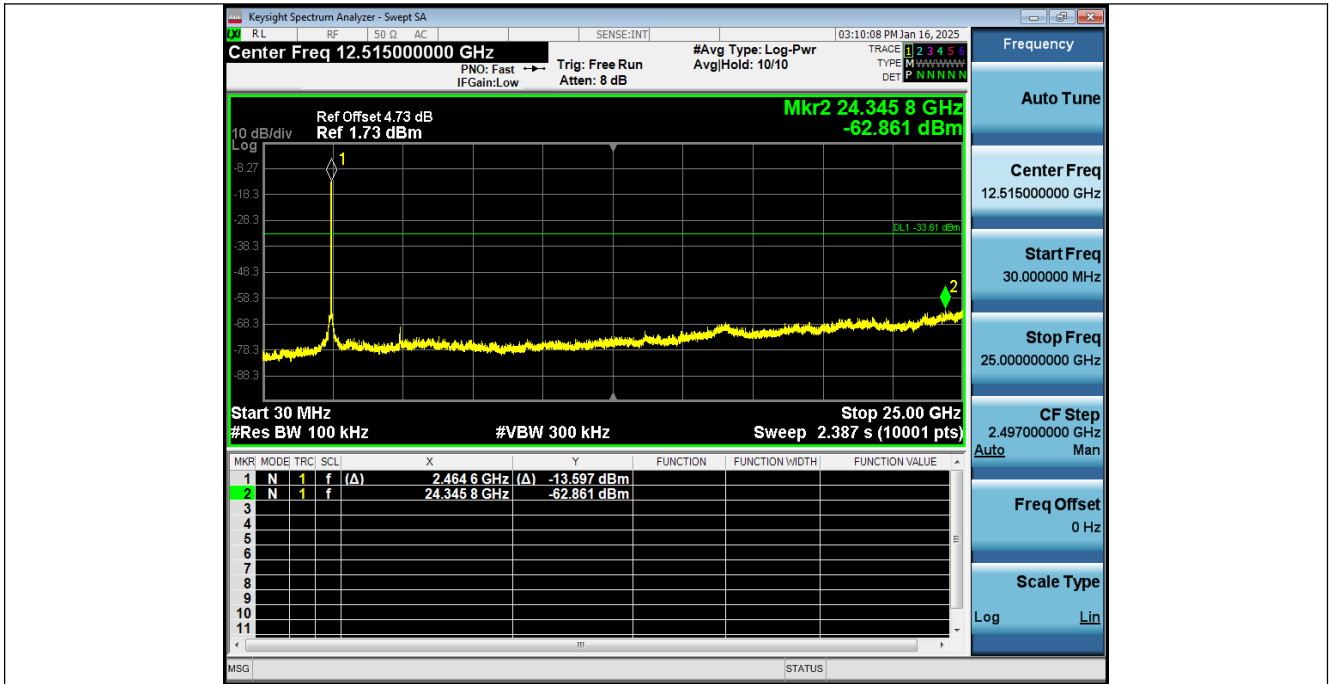
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



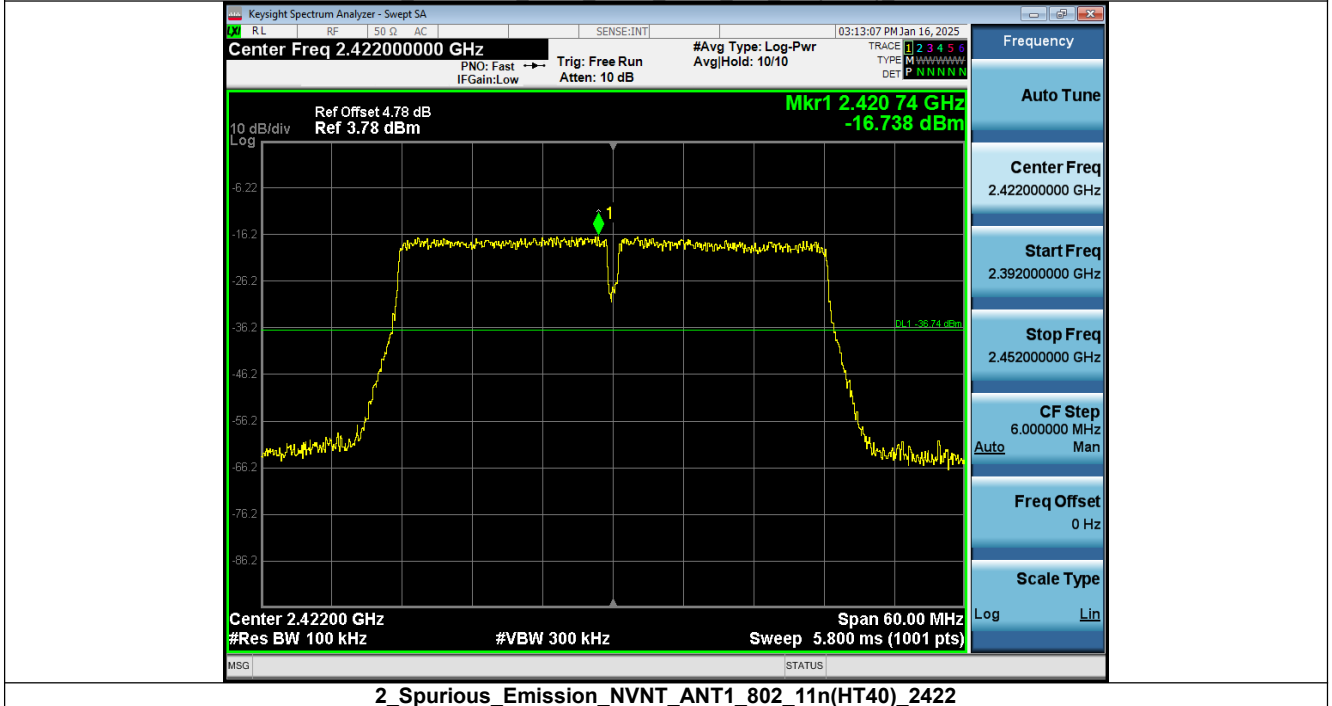
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



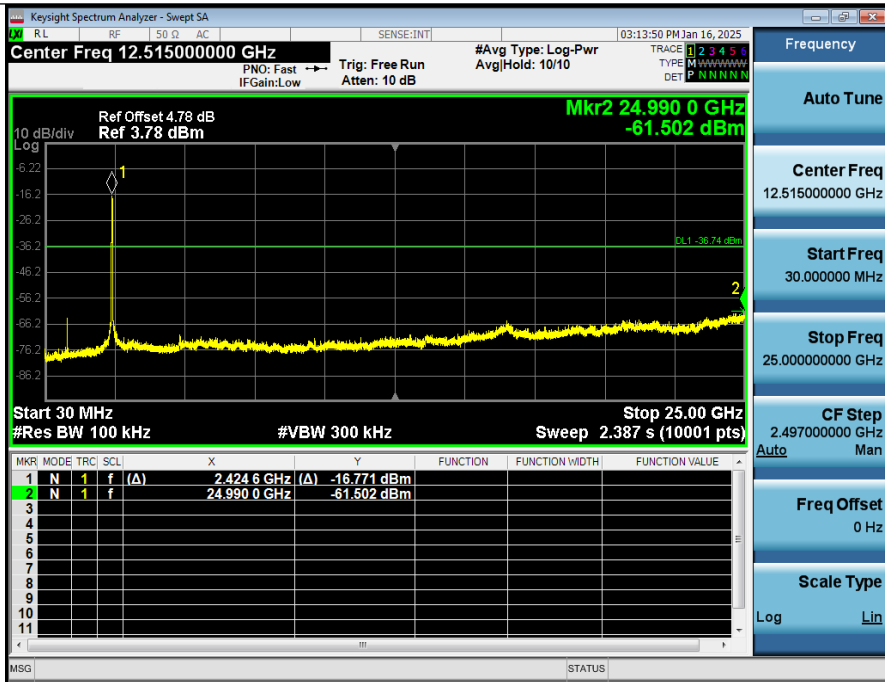
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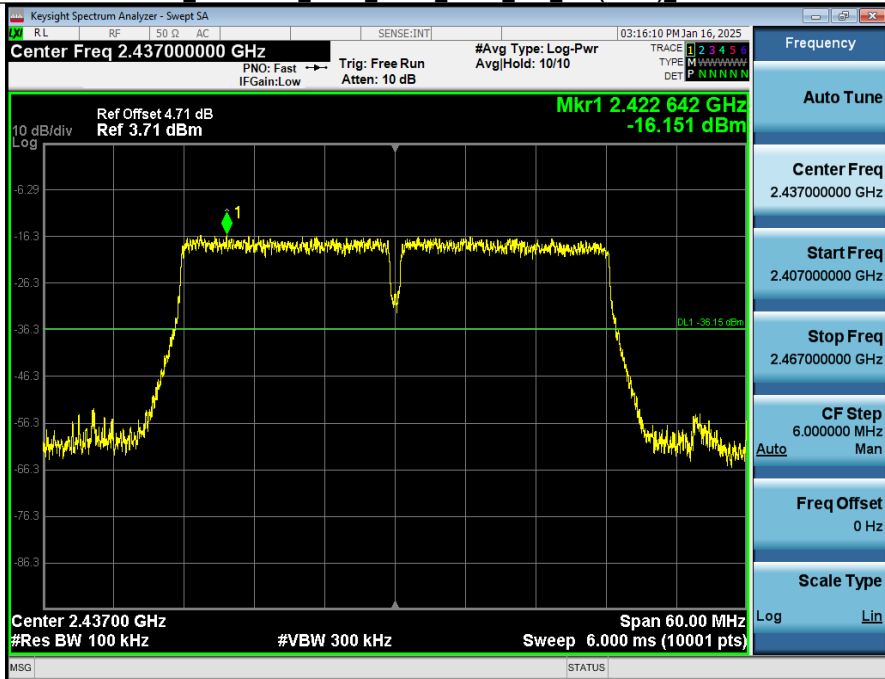
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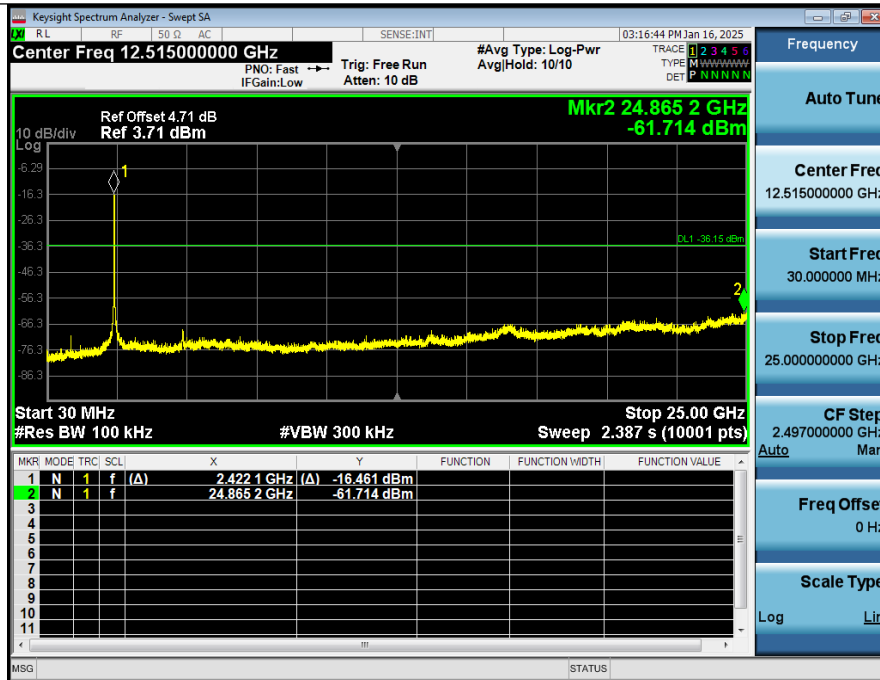
2 Spurious Emission_NVNT_ANT1_802_11n(HT40)_2422



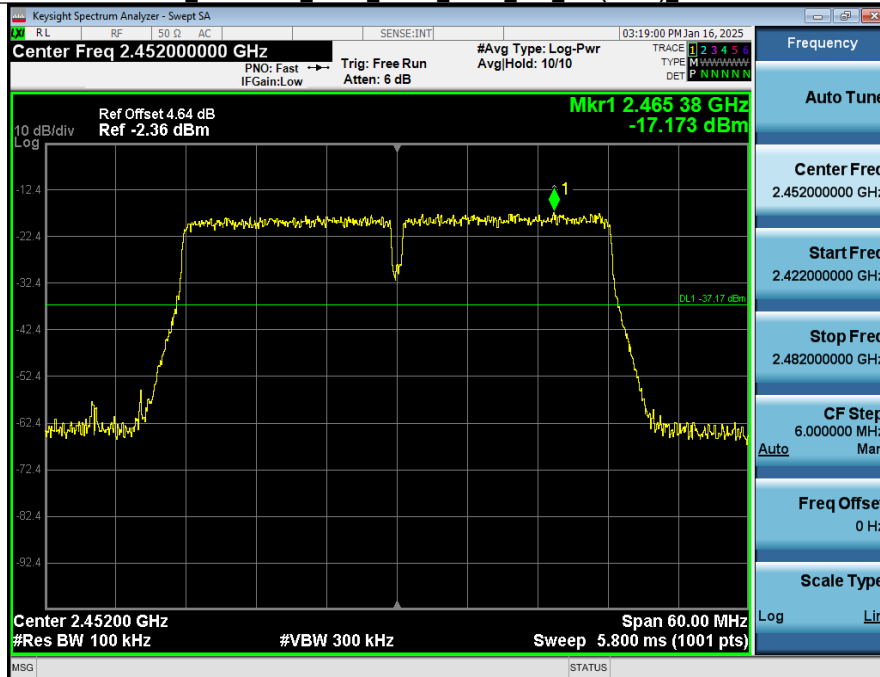
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2437



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

