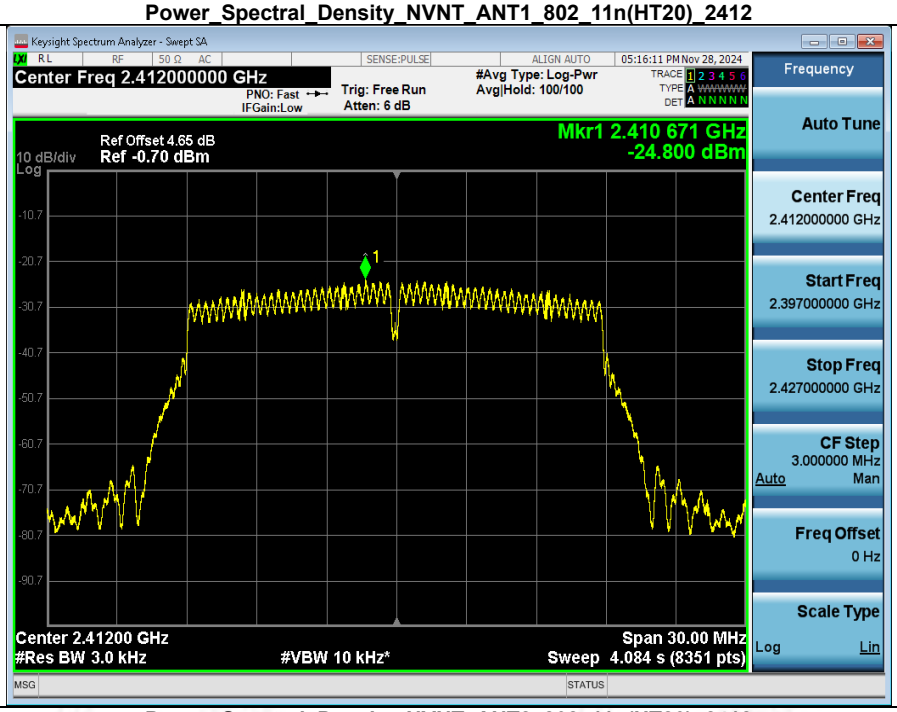
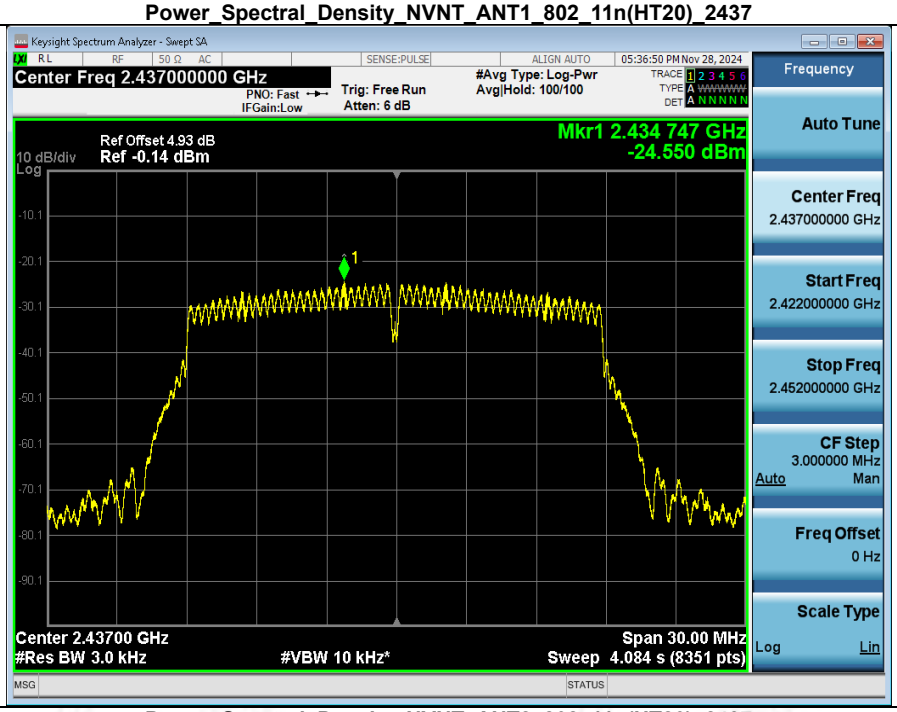
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



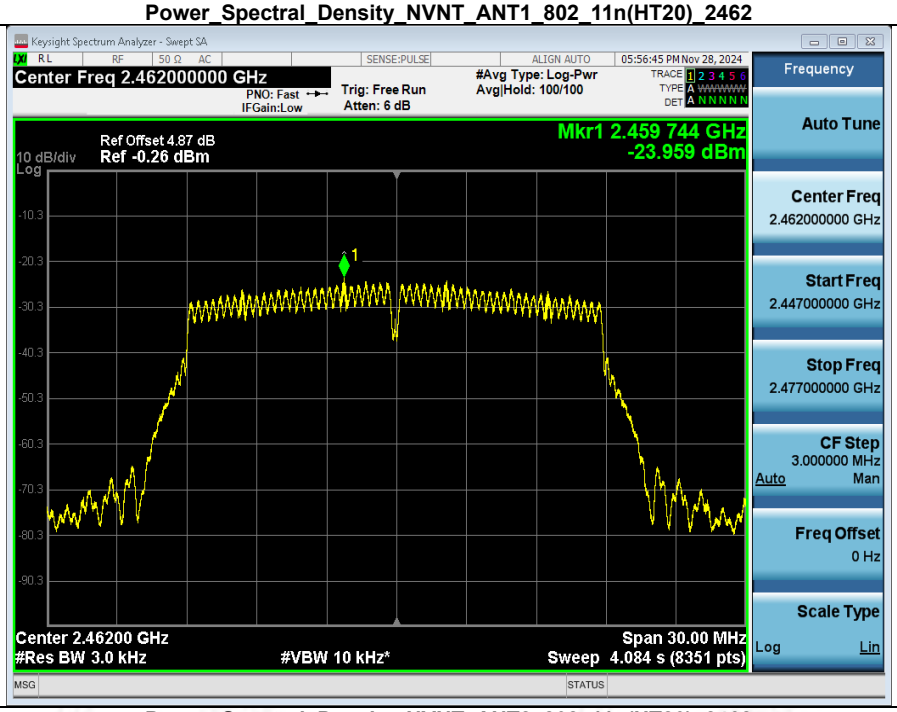
Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_2412

Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



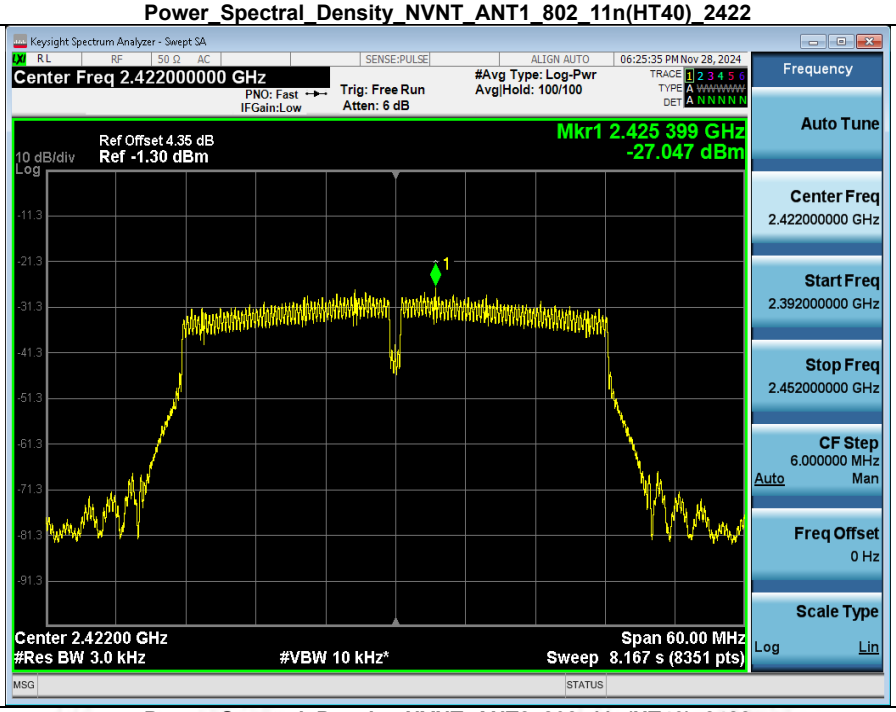
Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_2437

Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462

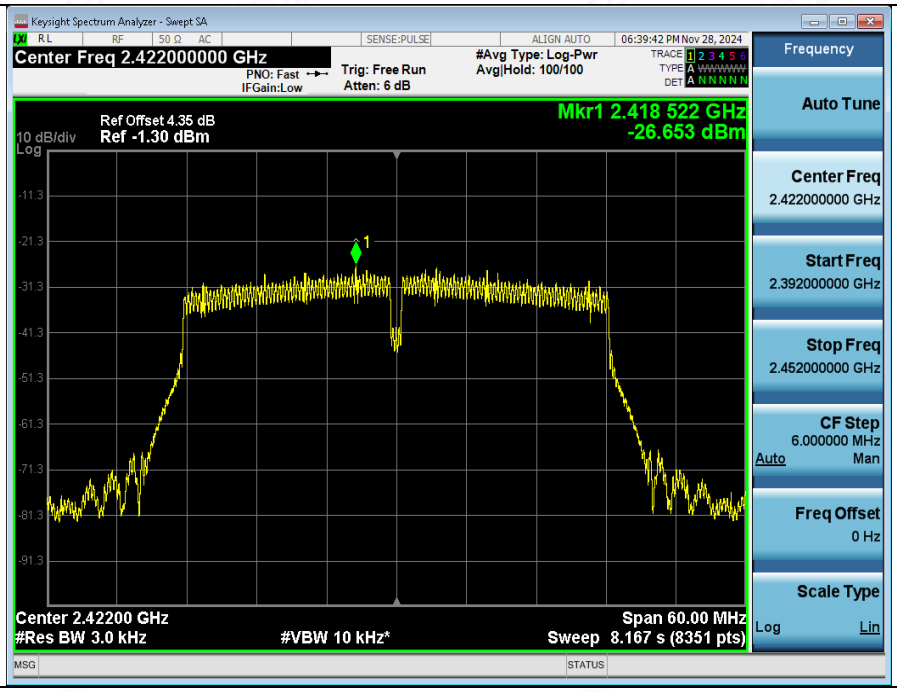


Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_2462

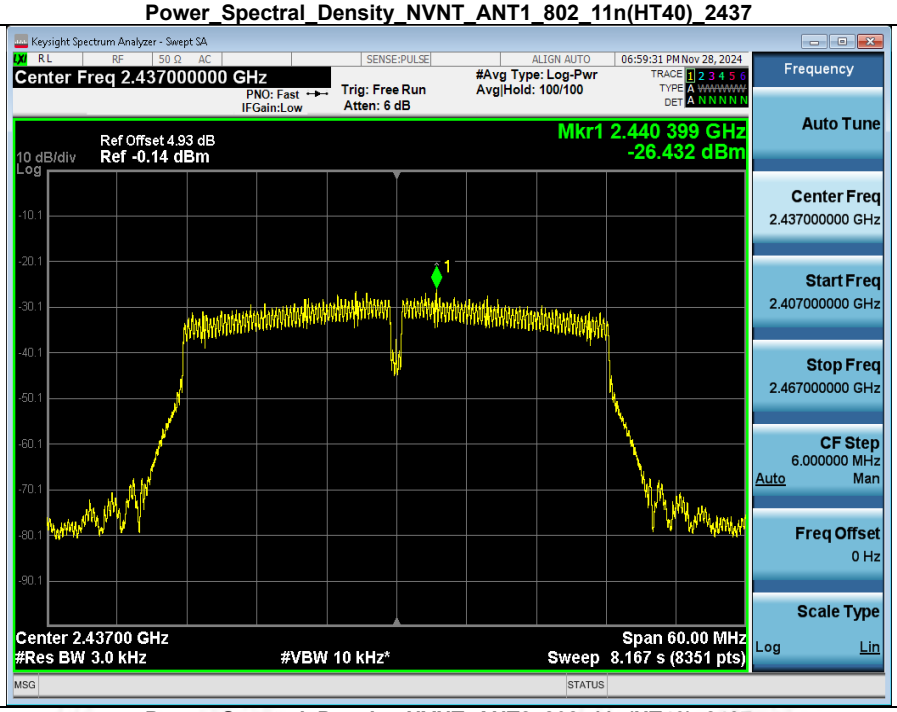
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



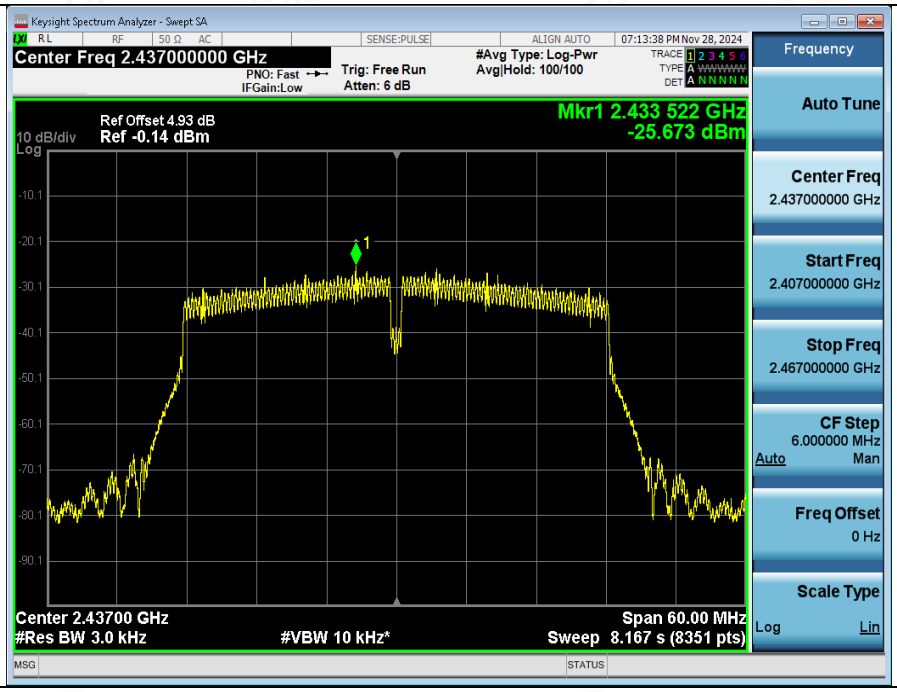
Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_2422



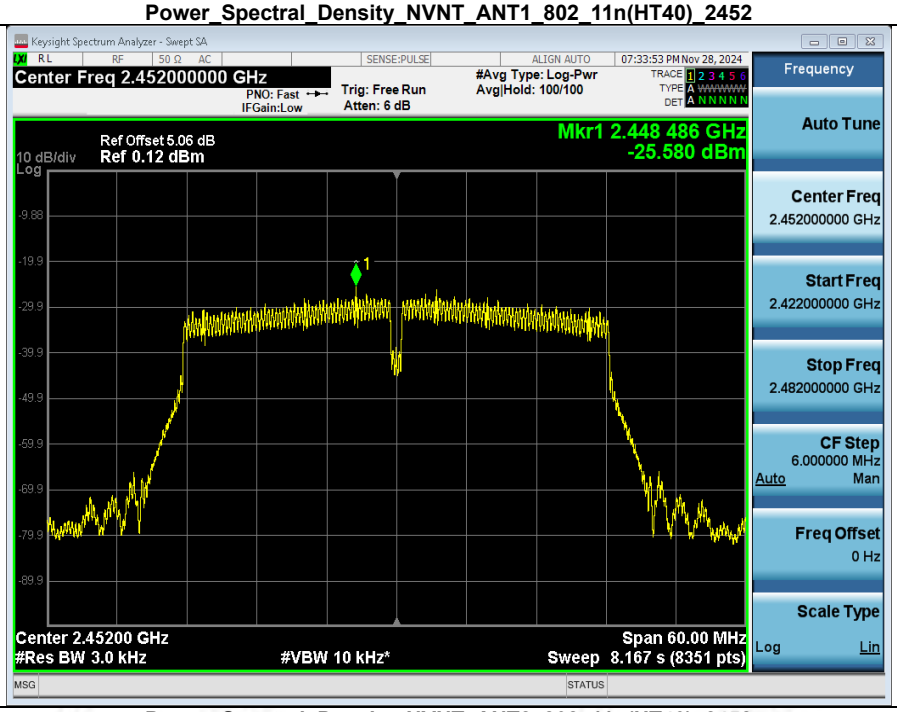
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



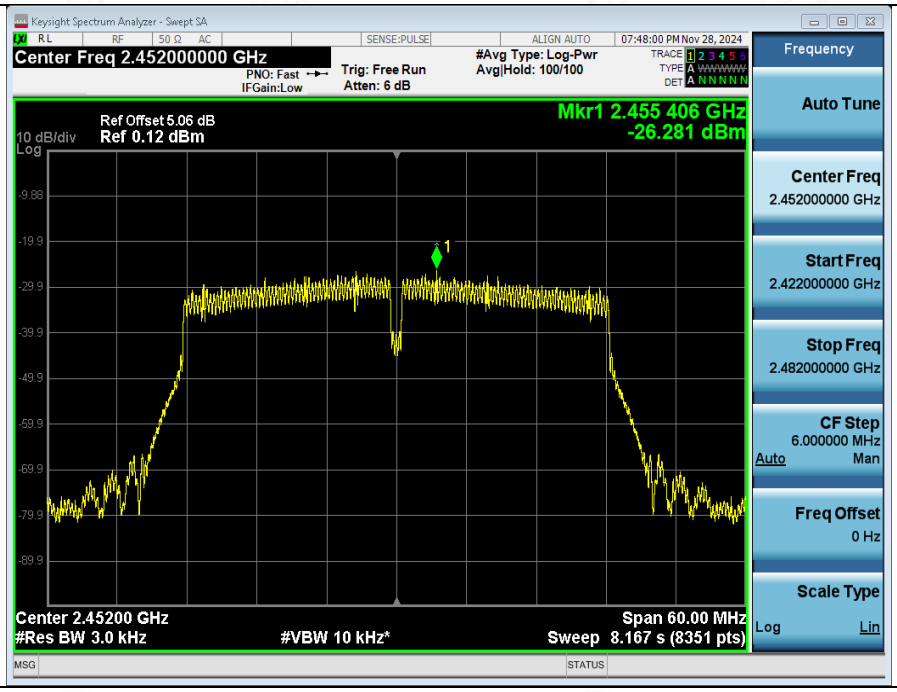
Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452

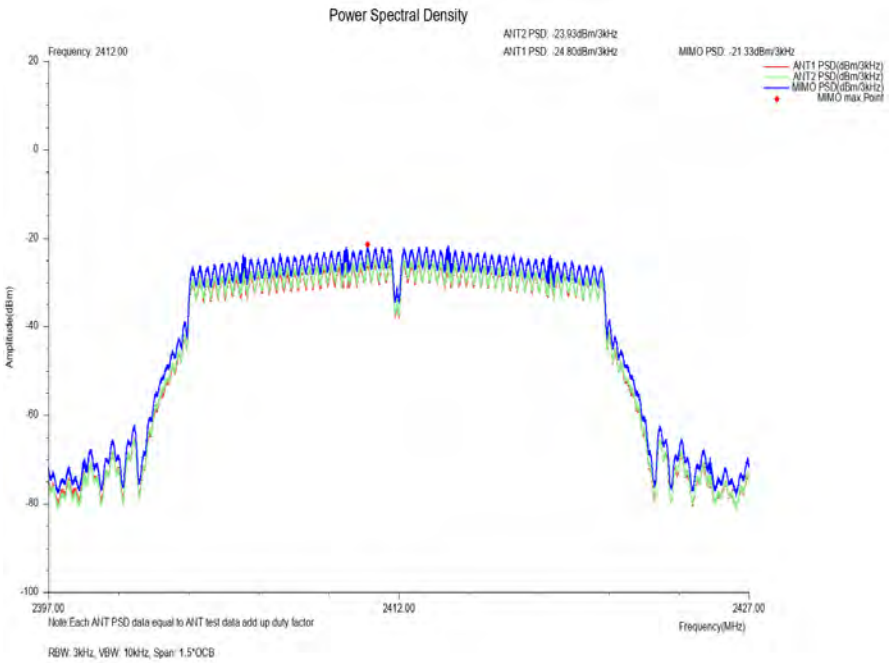


Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_2452

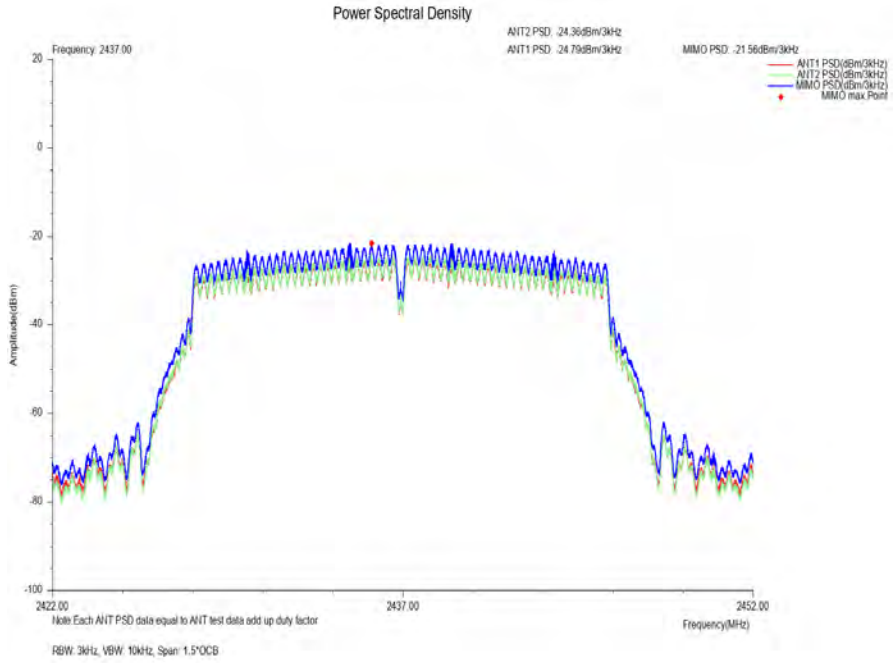


Condition	Antenna	Modulation	Frequency (MHz)	SA_MIMO_PSD(dBm/3kHz)	RB factor(dB)	MIMO_PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	MIMO_TX	802.11n(HT20)	2412.00	-21.33	0	-21.33	8	Pass
NVNT	MIMO_TX	802.11n(HT20)	2437.00	-21.56	0	-21.56	8	Pass
NVNT	MIMO_TX	802.11n(HT20)	2462.00	-21.34	0	-21.34	8	Pass
NVNT	MIMO_TX	802.11n(HT40)	2422.00	-23.82	0	-23.82	8	Pass
NVNT	MIMO_TX	802.11n(HT40)	2437.00	-22.95	0	-22.95	8	Pass
NVNT	MIMO_TX	802.11n(HT40)	2452.00	-22.85	0	-22.85	8	Pass

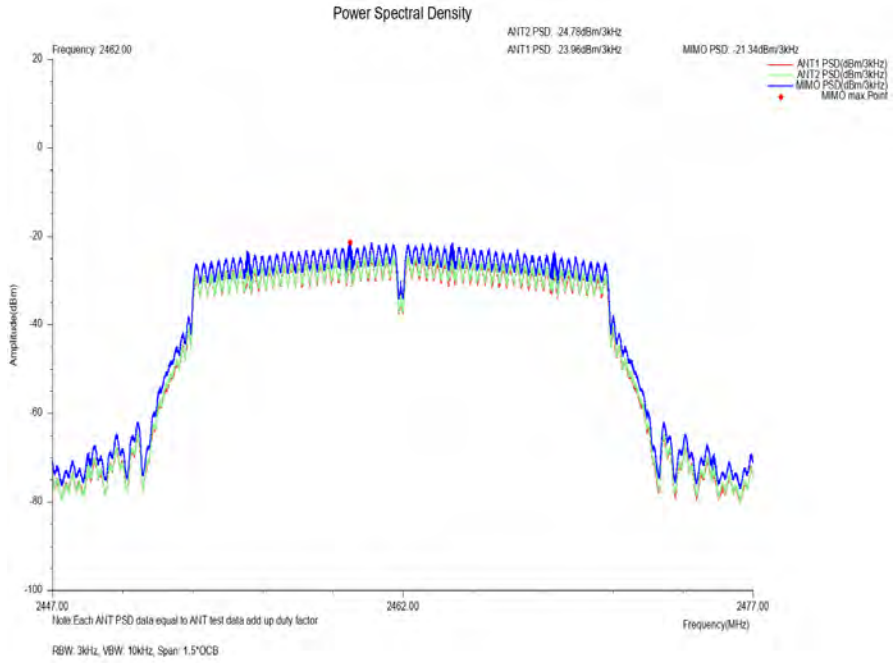
NVNT_MIMO_TX_802_11n(HT20)_Power_Spectral_Density_2412



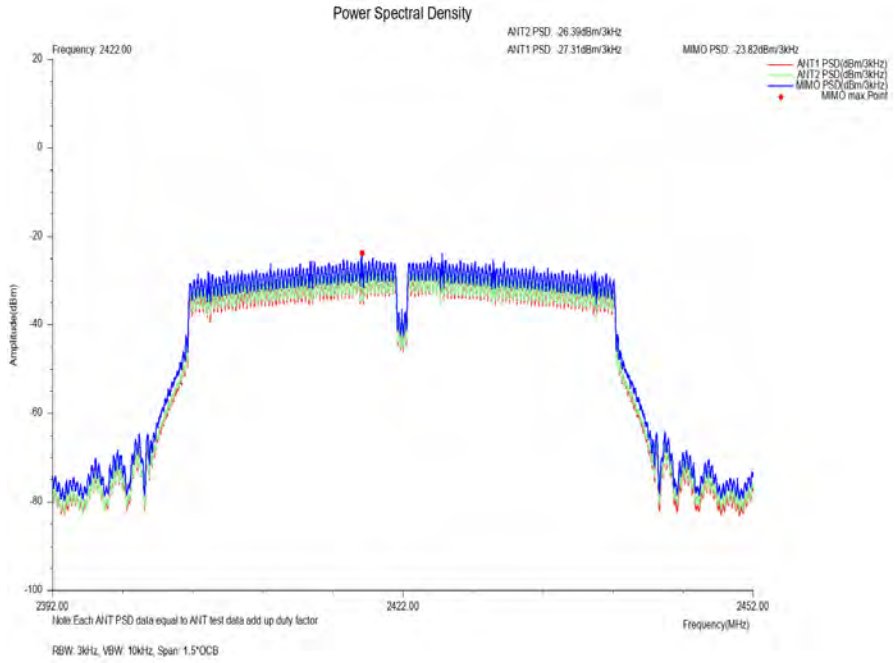
NVNT_MIMO_TX_802_11n(HT20)_Power_Spectral_Density_2437



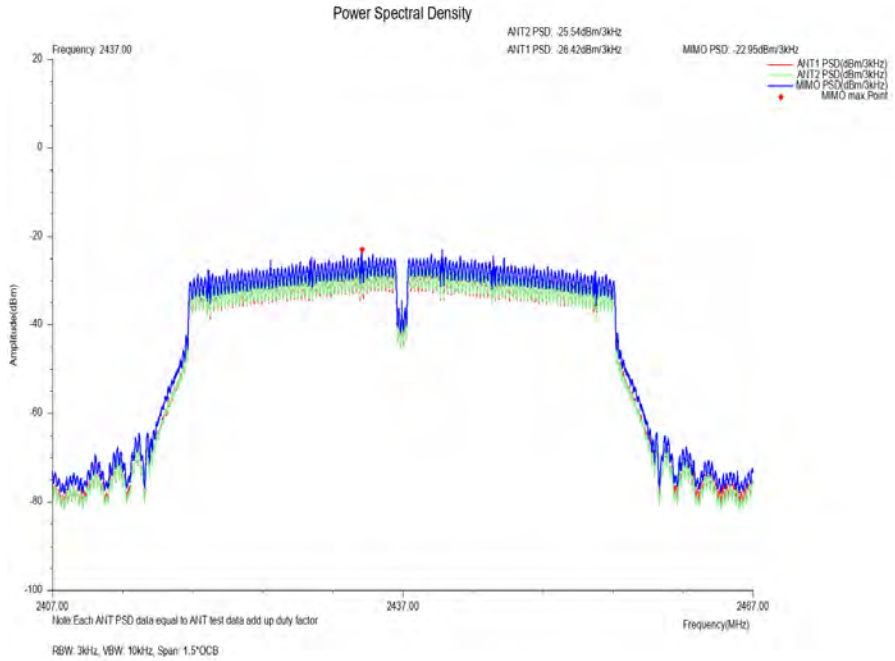
NVNT_MIMO_TX_802_11n(HT20)_Power_Spectral_Density_2462



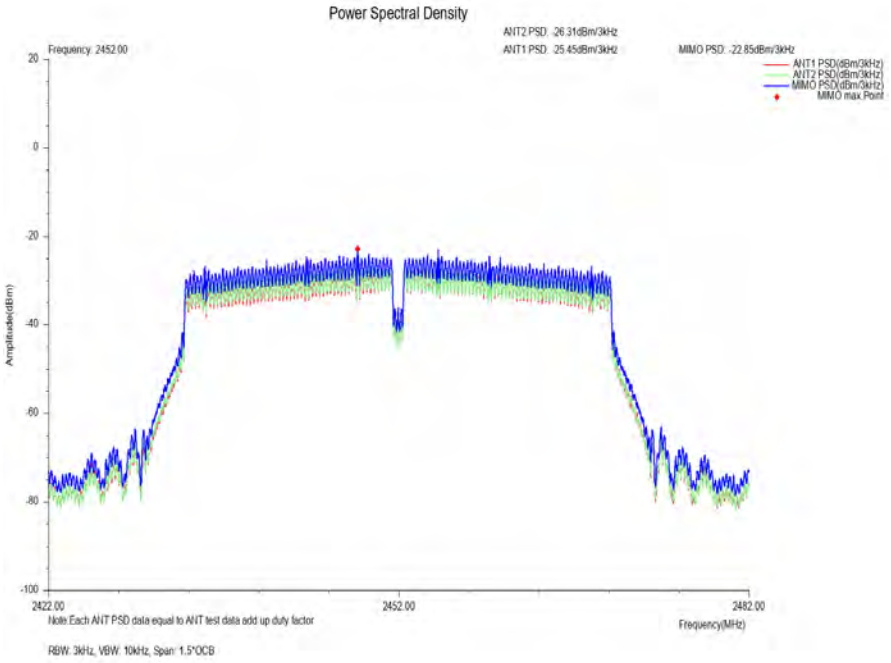
NVNT_MIMO_TX_802_11n(HT40)_Power_Spectral_Density_2422



NVNT_MIMO_TX_802_11n(HT40)_Power_Spectral_Density_2437



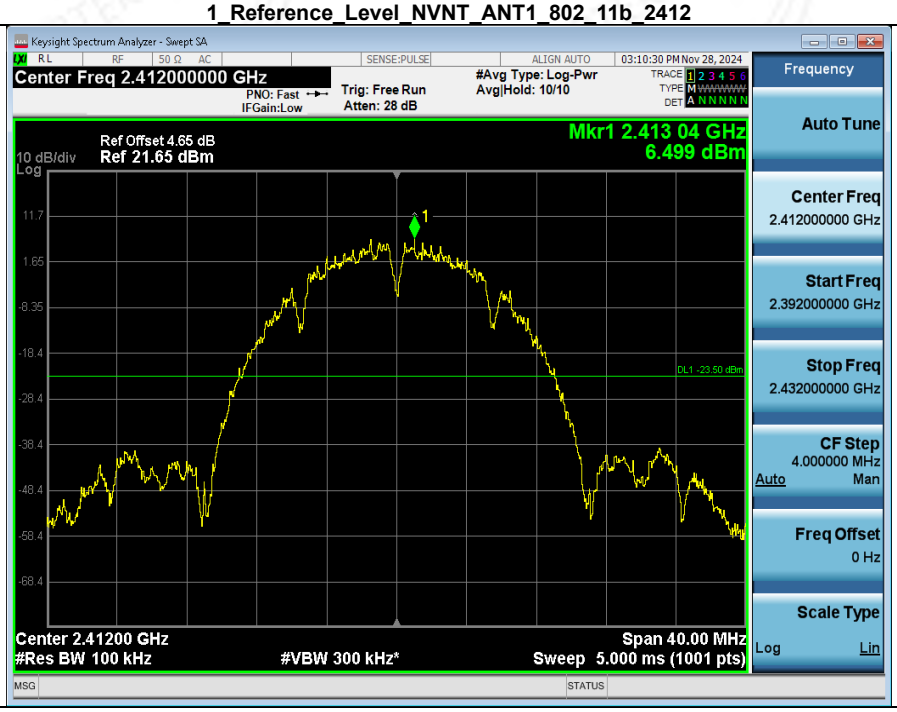
NVNT_MIMO_TX_802_11n(HT40)_Power_Spectral_Density_2452


Power Spectral Density
Frequency: 2452.00
ANT2 PSD: -26.31dBm/3kHz
ANT1 PSD: -25.45dBm/3kHz
MIMO PSD: -22.85dBm/3kHz
ANT1 PSD(dBm/3kHz)
ANT2 PSD(dBm/3kHz)
MIMO PSD(dBm/3kHz)
MIMO max Point
Amplitude(dBm)
20
0
-20
-40
-60
-80
-100
2422.00
2452.00
2482.00
Frequency(MHz)
Note:Each ANT PSD data equal to ANT test data add up duty factor
RBW: 3kHz, VBW: 10kHz, Span: 1.5*OCB

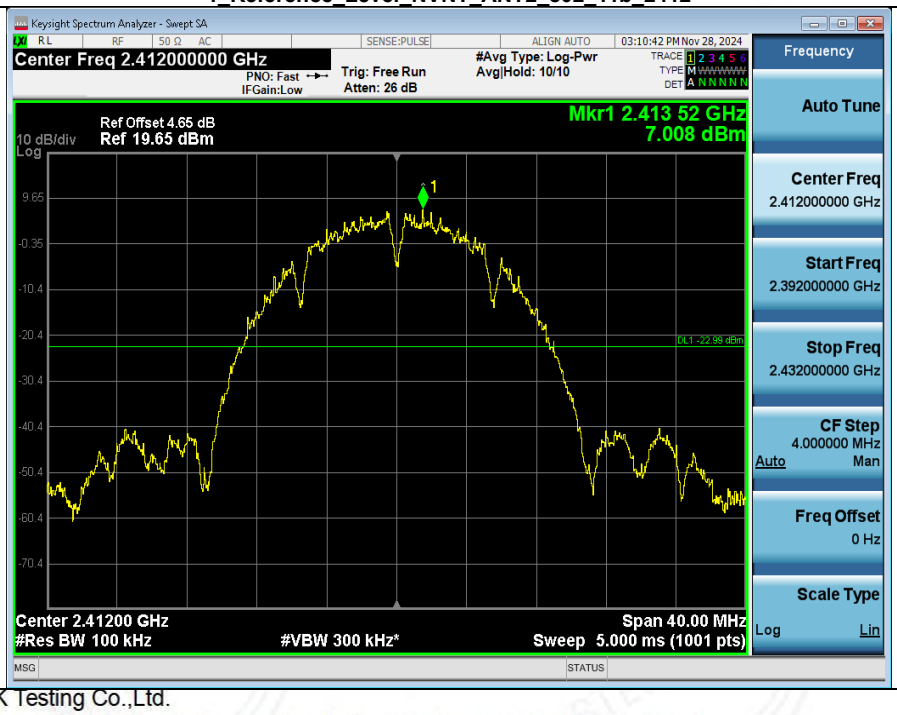
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2396.464	-39.821	-23.501	Pass
NVNT	ANT2	802.11b	2412.00	2396.464	-42.673	-23.501	Pass
NVNT	ANT1	802.11b	2462.00	2489.008	-51.206	-23.104	Pass
NVNT	ANT2	802.11b	2462.00	2493.664	-51.511	-23.104	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-44.814	-30.031	Pass
NVNT	ANT2	802.11g	2412.00	2399.712	-45.112	-30.031	Pass
NVNT	ANT1	802.11g	2462.00	2483.632	-54.248	-28.999	Pass
NVNT	ANT2	802.11g	2462.00	2484.400	-55.293	-28.999	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	-47.853	-31.316	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	2399.712	-46.875	-31.316	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.160	-53.536	-30.563	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	2485.072	-54.538	-30.563	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.364	-48.610	-36.283	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	2399.232	-47.731	-36.283	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.156	-53.744	-35.724	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	2484.428	-51.205	-35.724	Pass

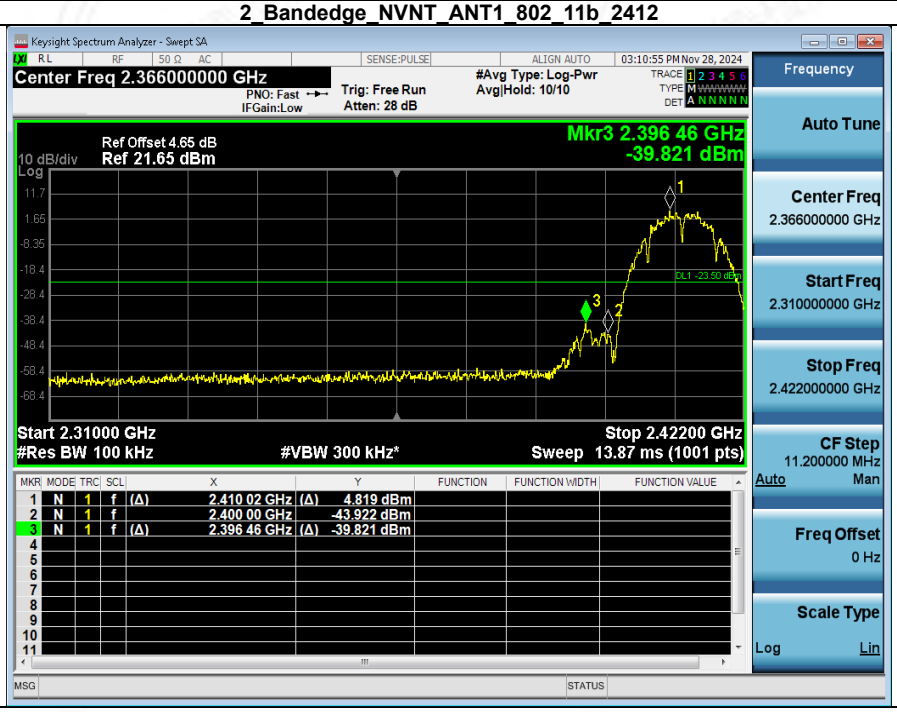
1_Reference_Level_NVNT_ANT1_802_11b_2412



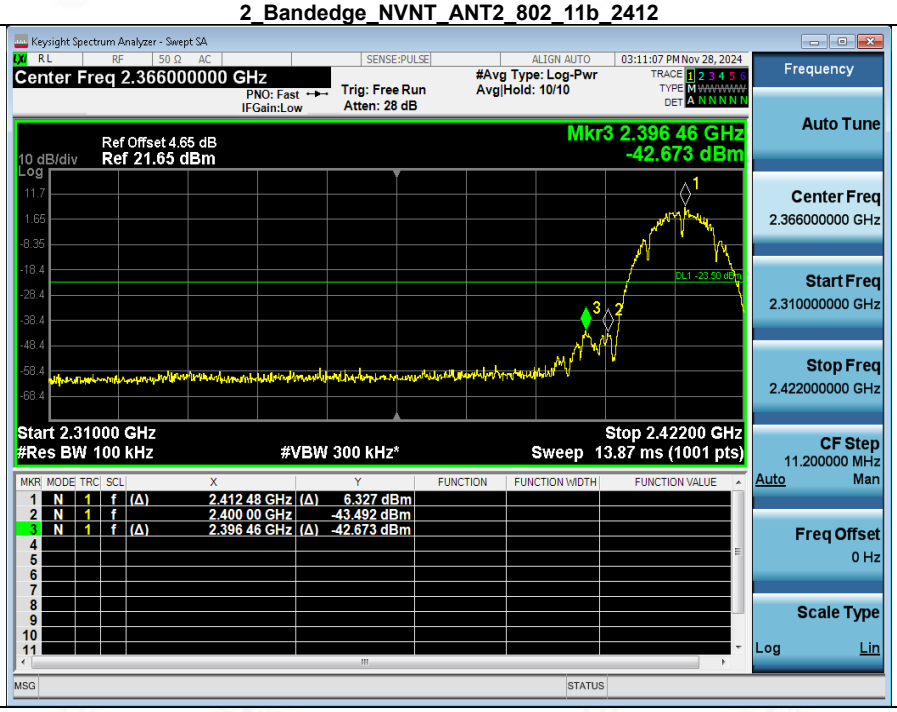
1_Reference_Level_NVNT_ANT2_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT2_802_11b_2412

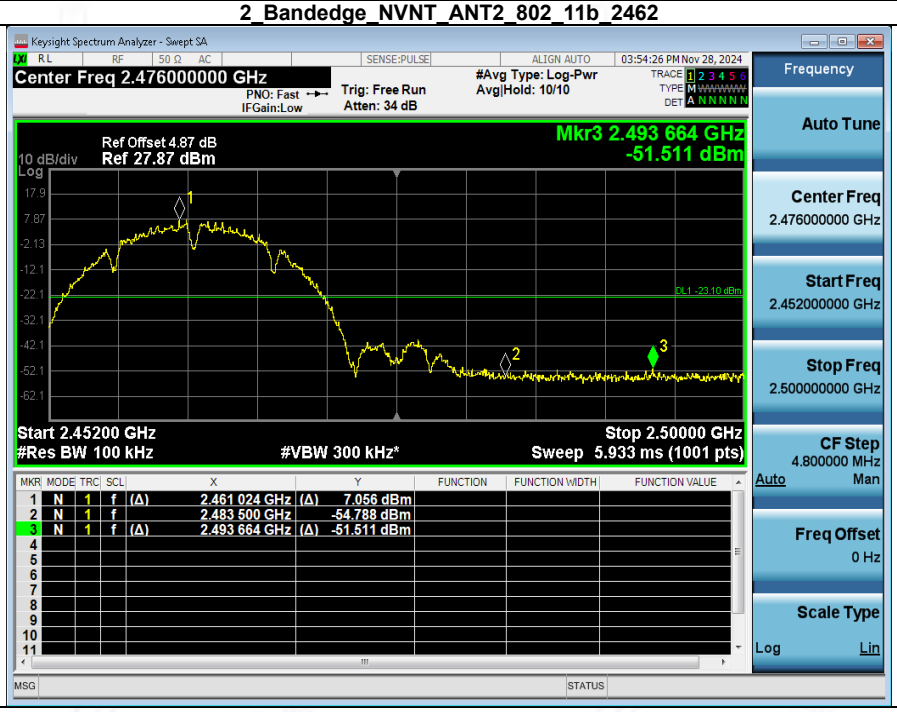


1_Reference_Level_NVNT_ANT1_802_11b_2462

1_Reference_Level_NVNT_ANT2_802_11b_2462

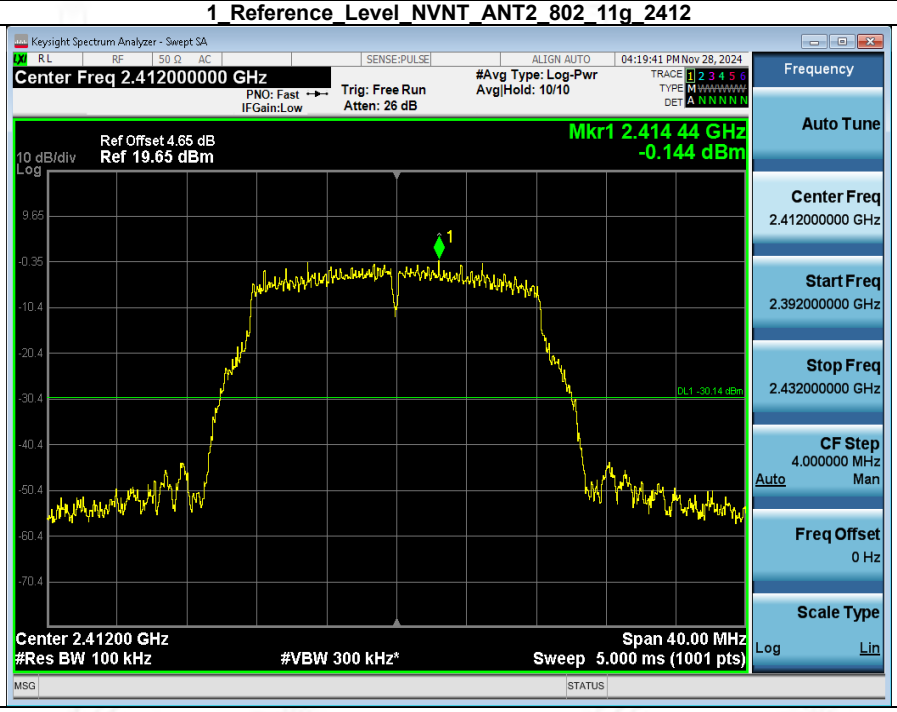
2_Bandedge_NVNT_ANT1_802_11b_2462

2_Bandedge_NVNT_ANT2_802_11b_2462

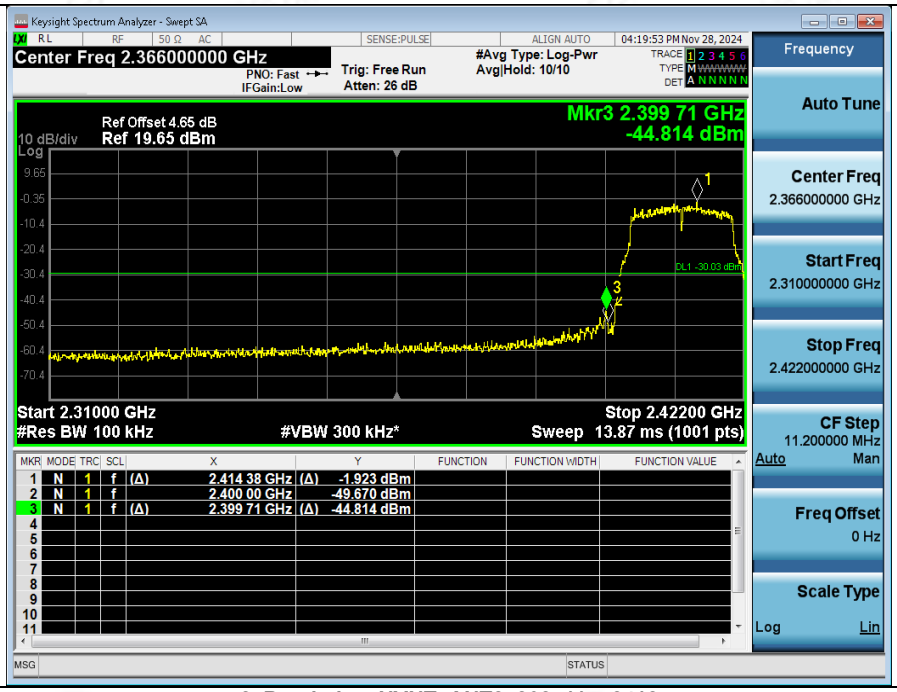


1_Reference_Level_NVNT_ANT1_802_11g_2412

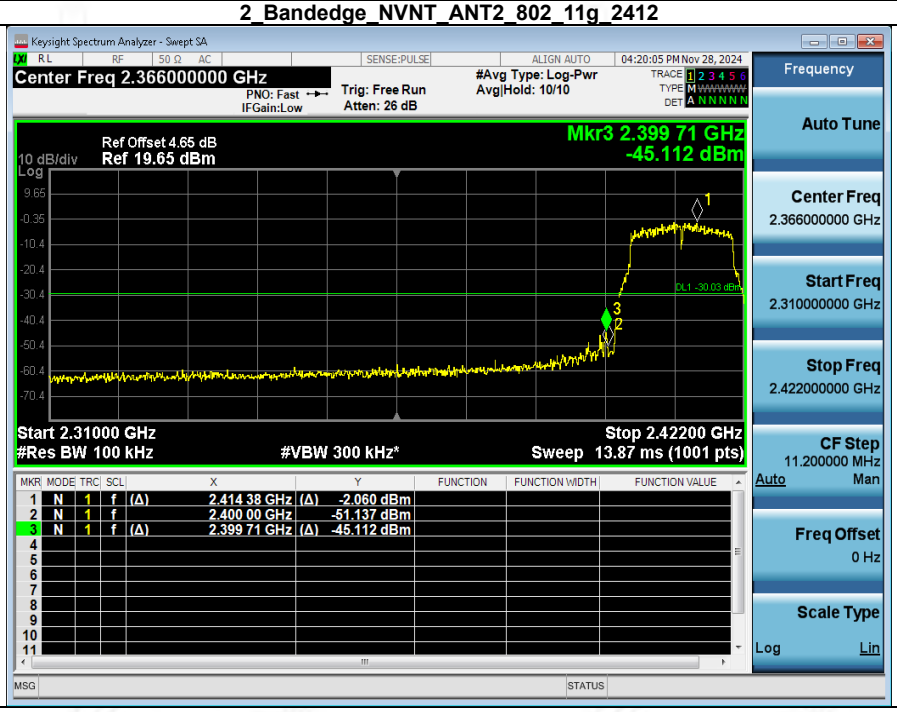
1_Reference_Level_NVNT_ANT2_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412

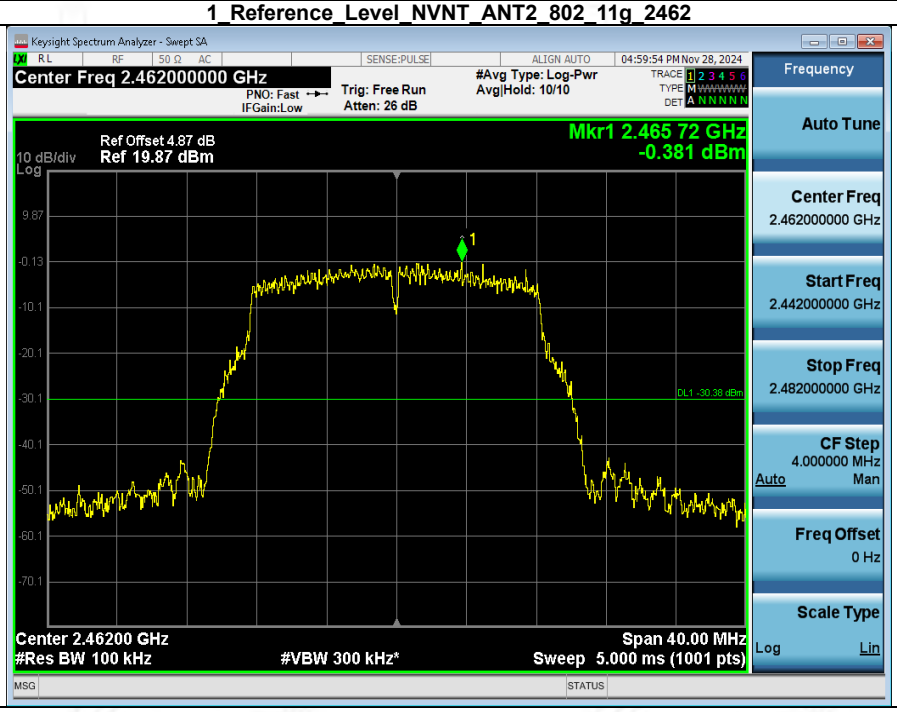


2_Bandedge_NVNT_ANT2_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462

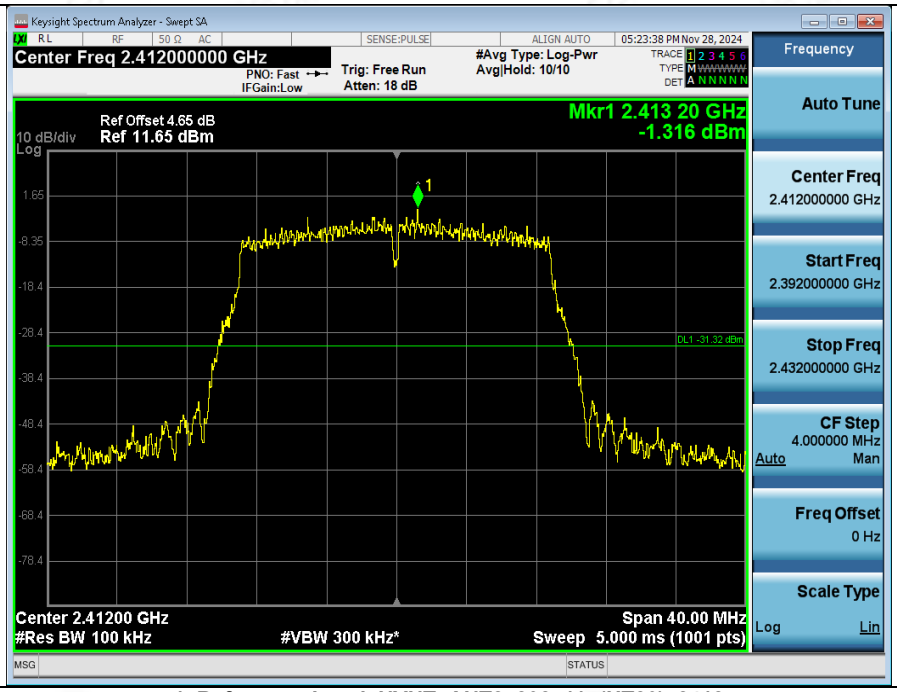
1_Reference_Level_NVNT_ANT2_802_11g_2462



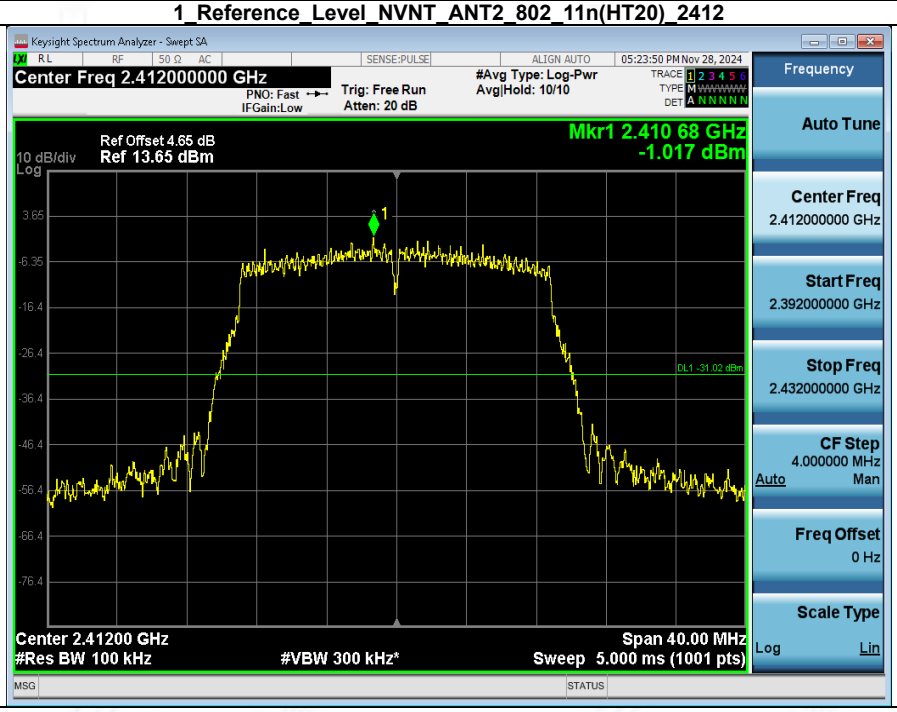
2_Bandedge_NVNT_ANT1_802_11g_2462

2_Bandedge_NVNT_ANT2_802_11g_2462

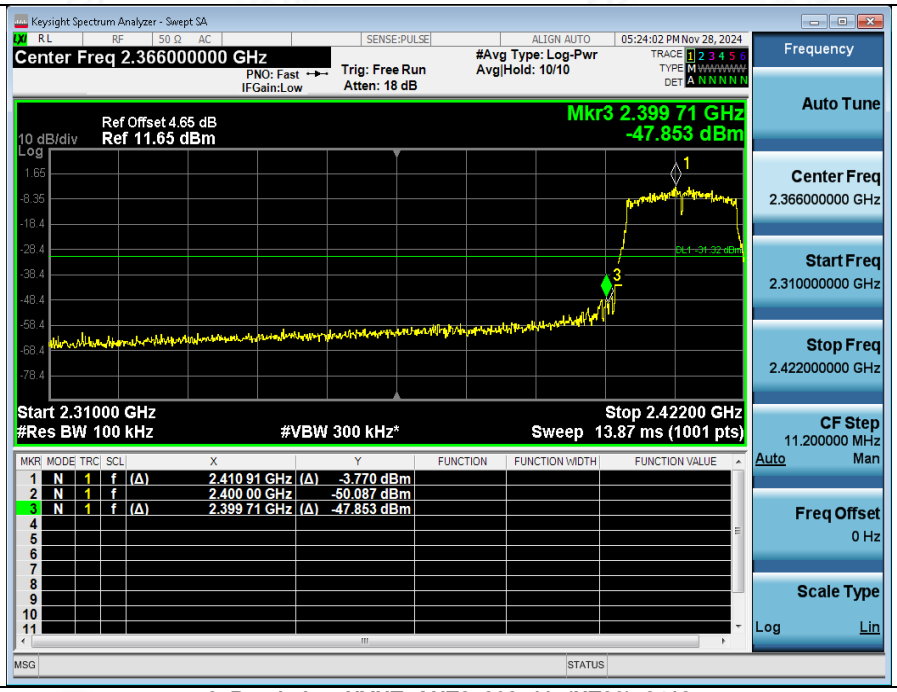
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



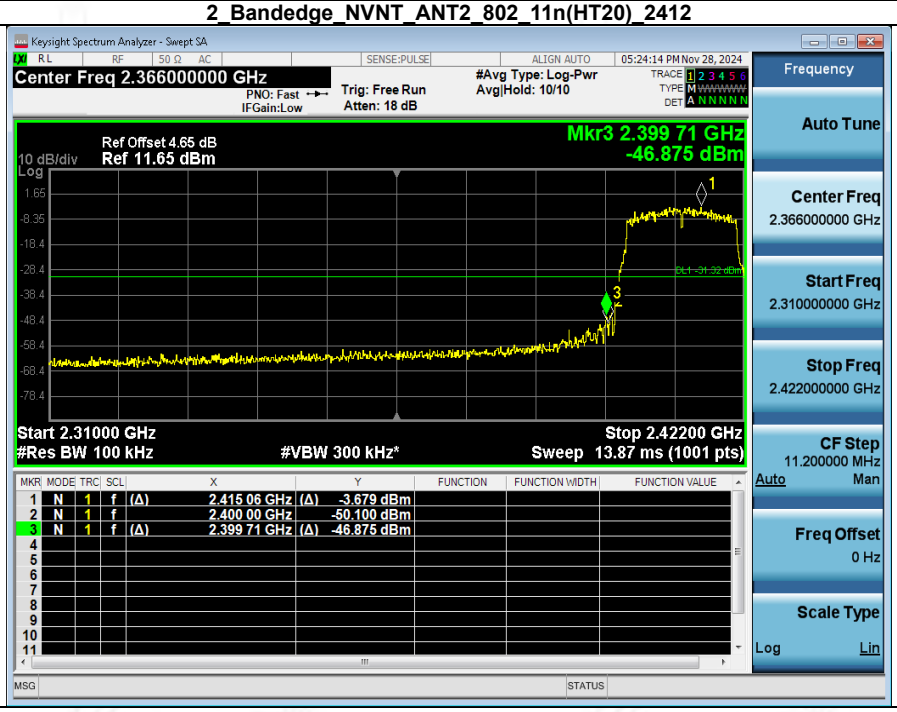
1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2412



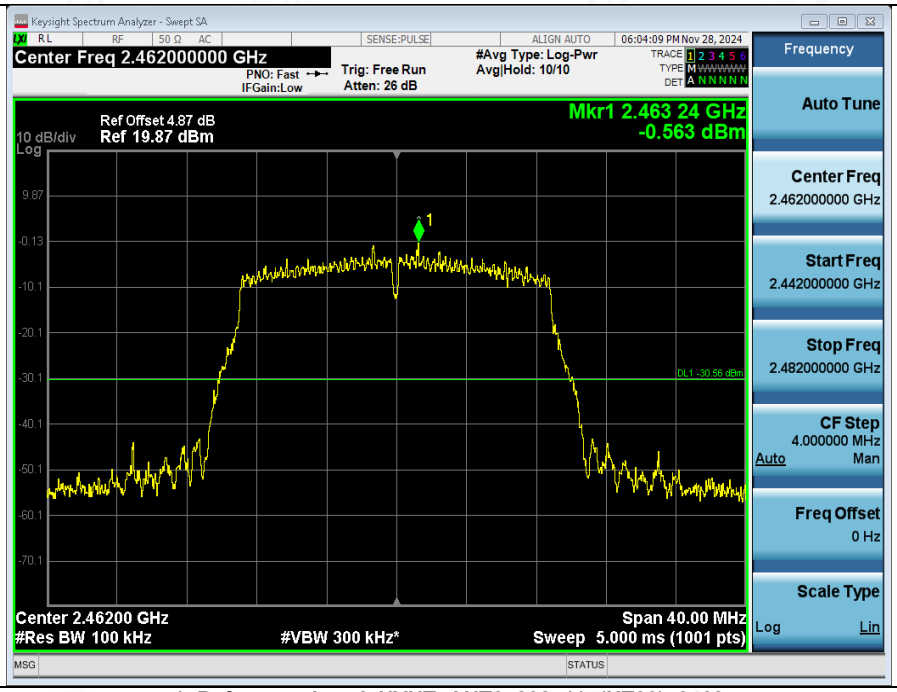
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



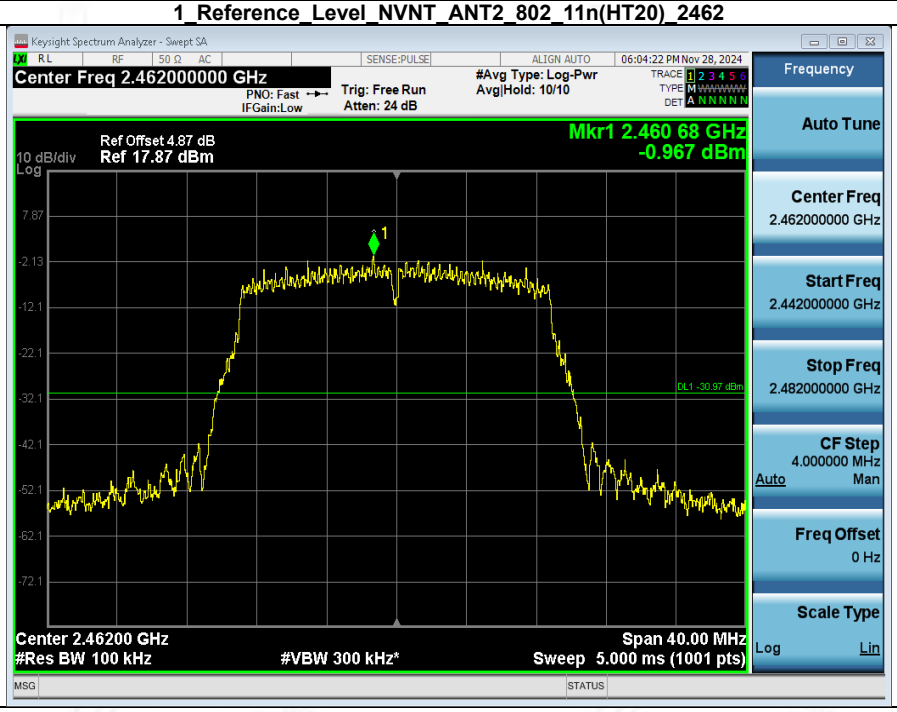
2_Bandedge_NVNT_ANT2_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2462

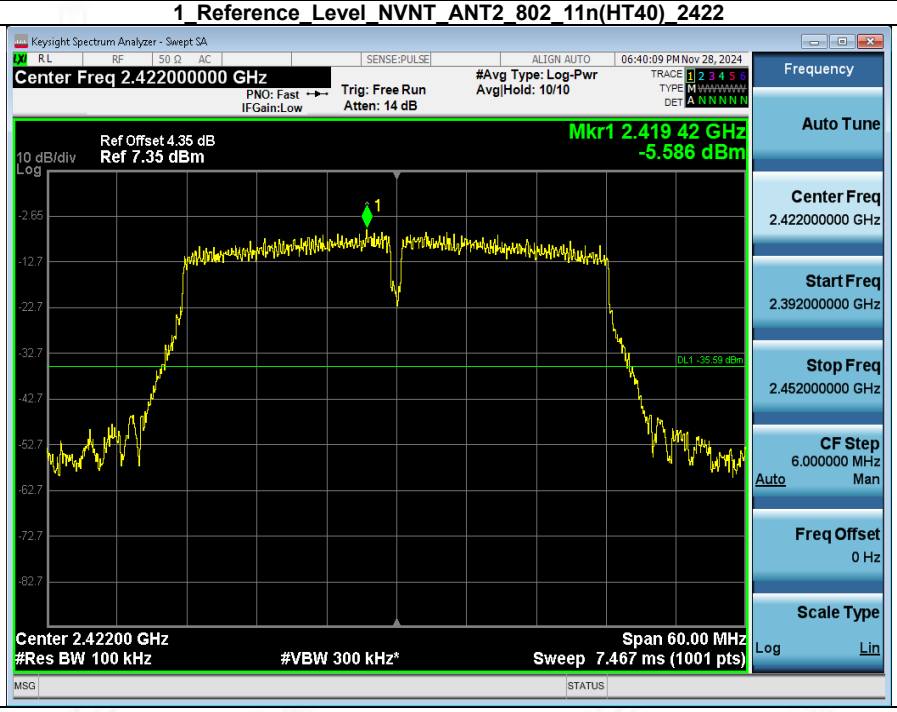


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462

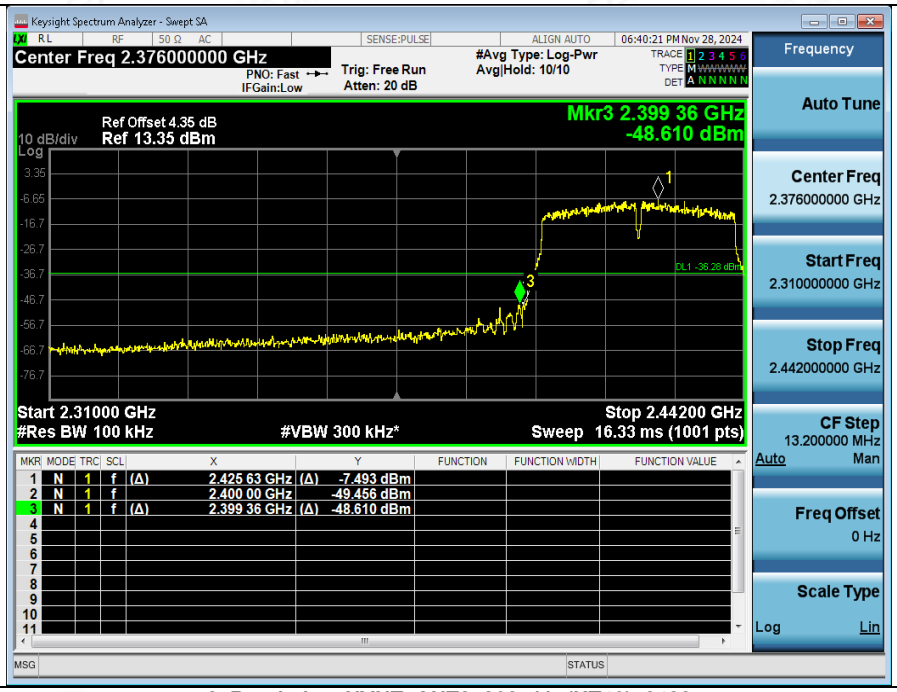
2_Bandedge_NVNT_ANT2_802_11n(HT20)_2462

1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

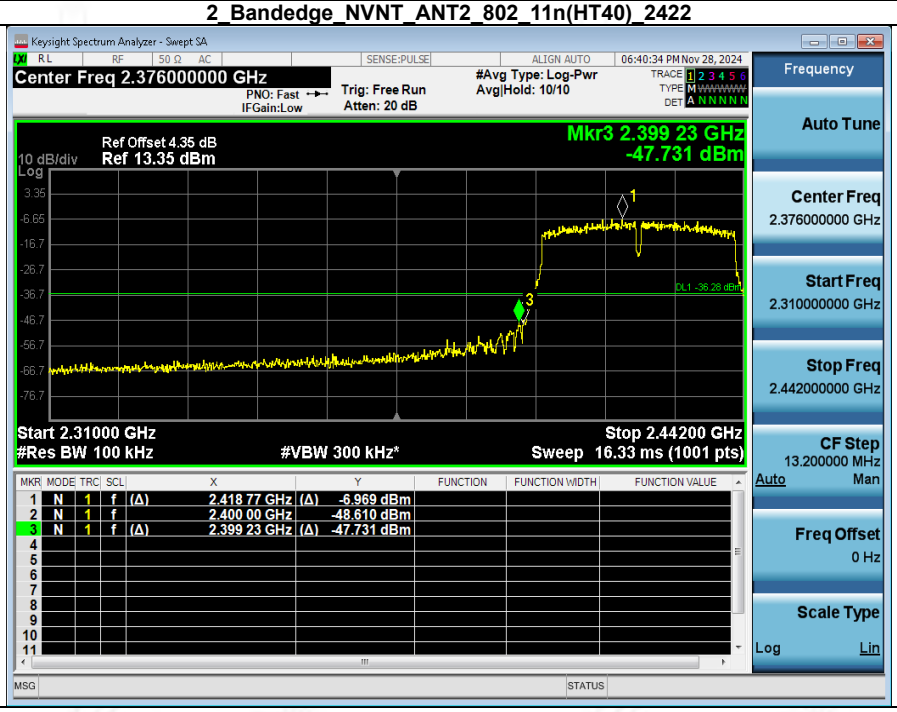
1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2422



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422

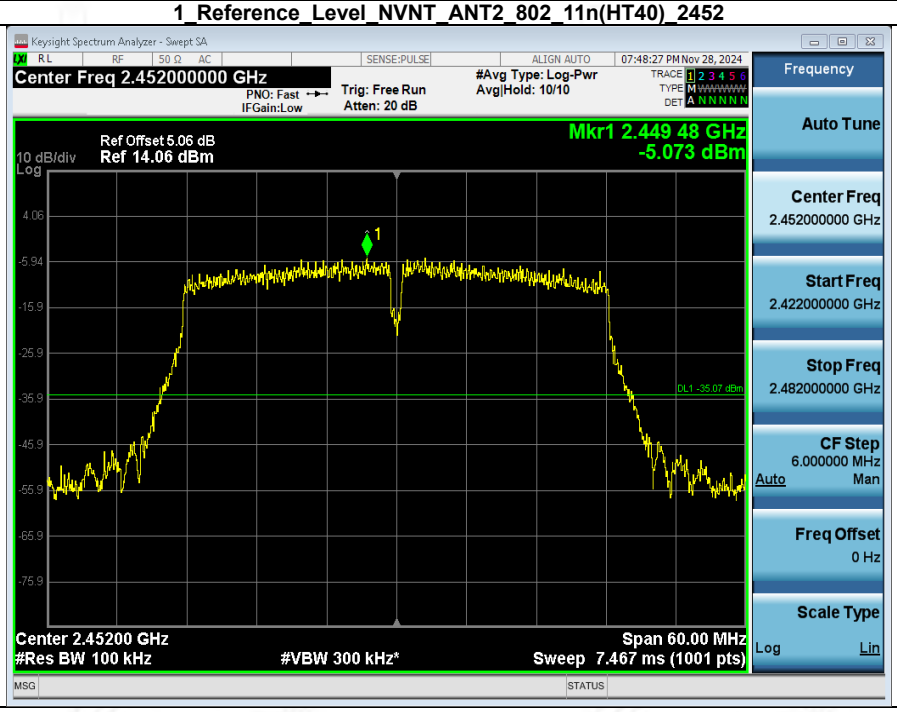


2_Bandedge_NVNT_ANT2_802_11n(HT40)_2422



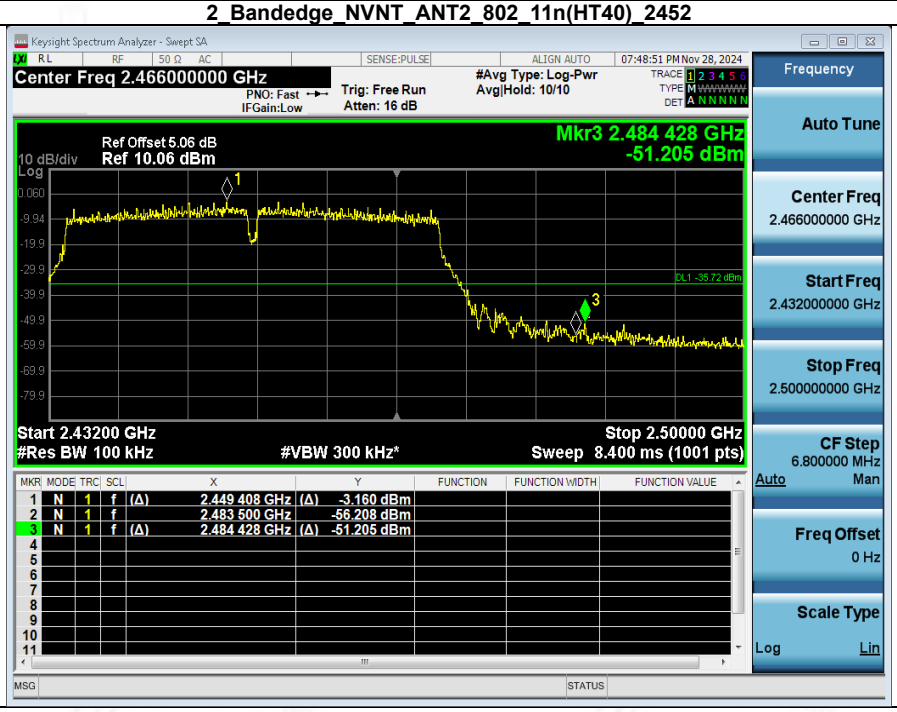
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452

1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452

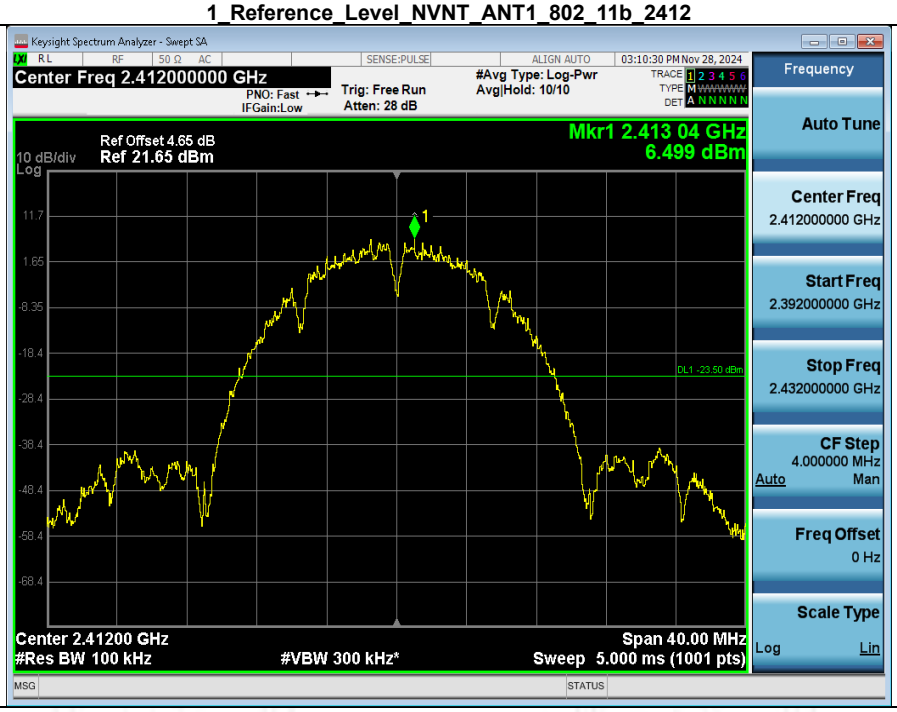
2_Bandedge_NVNT_ANT2_802_11n(HT40)_2452



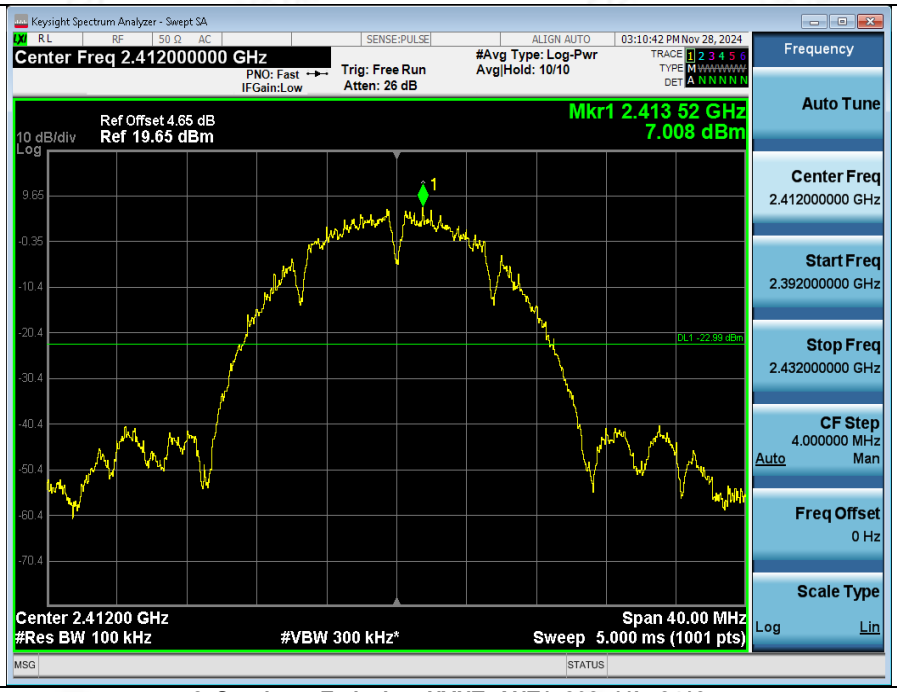
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24800.240	-57.462	-23.501	Pass
NVNT	ANT2	802.11b	2412.00	24772.773	-57.008	-23.501	Pass
NVNT	ANT1	802.11b	2437.00	24762.785	-55.489	-21.206	Pass
NVNT	ANT2	802.11b	2437.00	24922.593	-55.607	-21.206	Pass
NVNT	ANT1	802.11b	2462.00	24840.192	-51.285	-23.104	Pass
NVNT	ANT2	802.11b	2462.00	24760.288	-51.628	-23.104	Pass
NVNT	ANT1	802.11g	2412.00	24822.713	-59.364	-30.031	Pass
NVNT	ANT2	802.11g	2412.00	24822.713	-59.479	-30.031	Pass
NVNT	ANT1	802.11g	2437.00	24825.210	-57.526	-27.527	Pass
NVNT	ANT2	802.11g	2437.00	24740.312	-57.337	-27.527	Pass
NVNT	ANT1	802.11g	2462.00	24750.300	-63.463	-28.999	Pass
NVNT	ANT2	802.11g	2462.00	24785.258	-63.158	-28.999	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24780.264	-67.867	-31.316	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	24645.426	-67.830	-31.316	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24705.354	-57.289	-30.479	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	24822.713	-56.877	-30.479	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24800.240	-59.562	-30.563	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	24785.258	-58.965	-30.563	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24777.767	-66.103	-36.283	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	24715.342	-65.561	-36.283	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24765.282	-60.874	-31.754	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	24832.701	-61.504	-31.754	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2507.024	-67.062	-35.724	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	2504.527	-66.980	-35.724	Pass

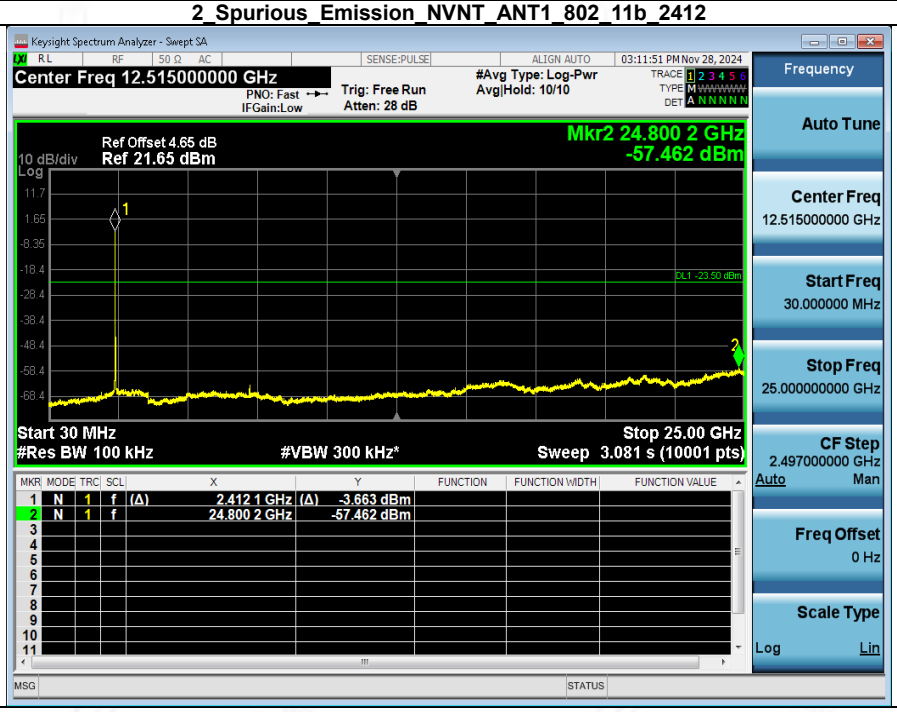
1_Reference_Level_NVNT_ANT1_802_11b_2412



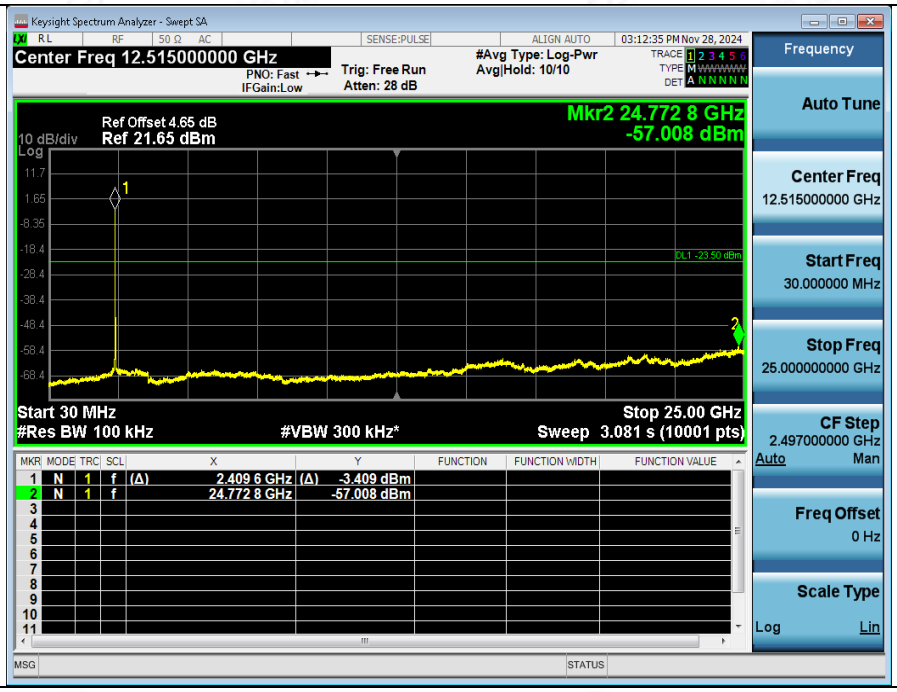
1_Reference_Level_NVNT_ANT2_802_11b_2412



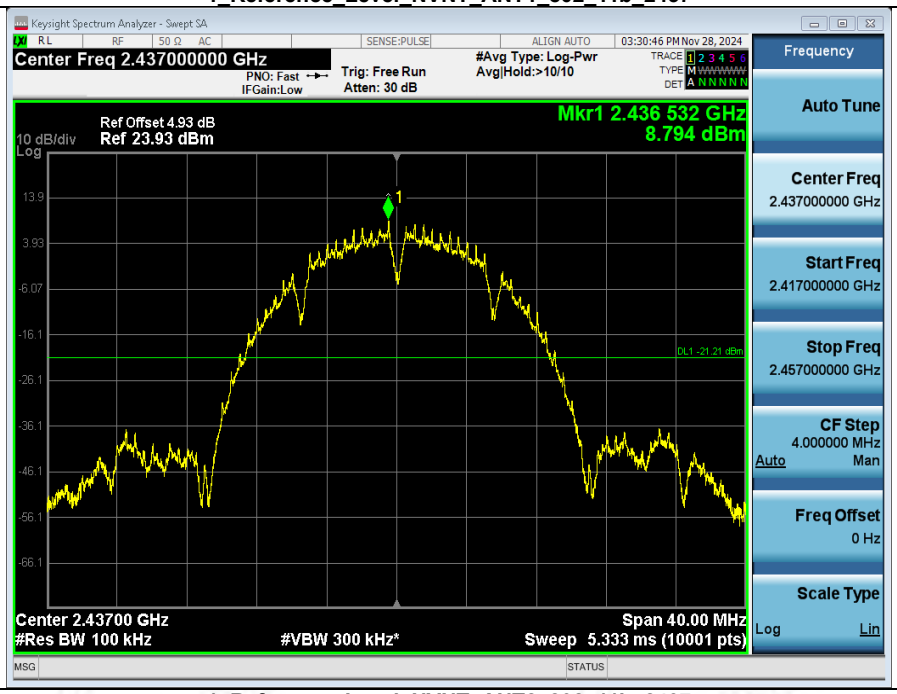
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



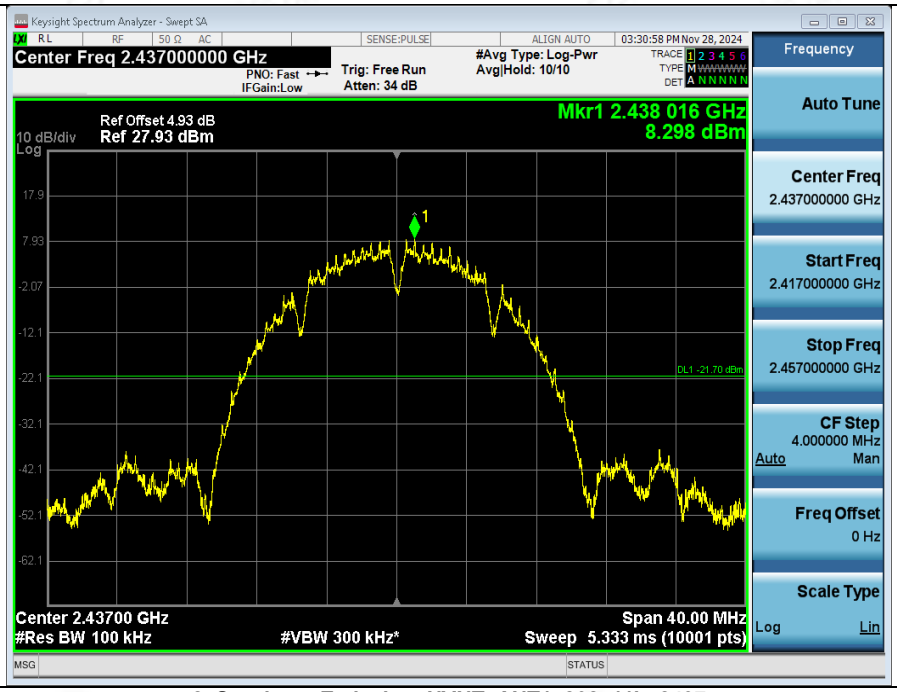
2_Spurious_Emission_NVNT_ANT2_802_11b_2412



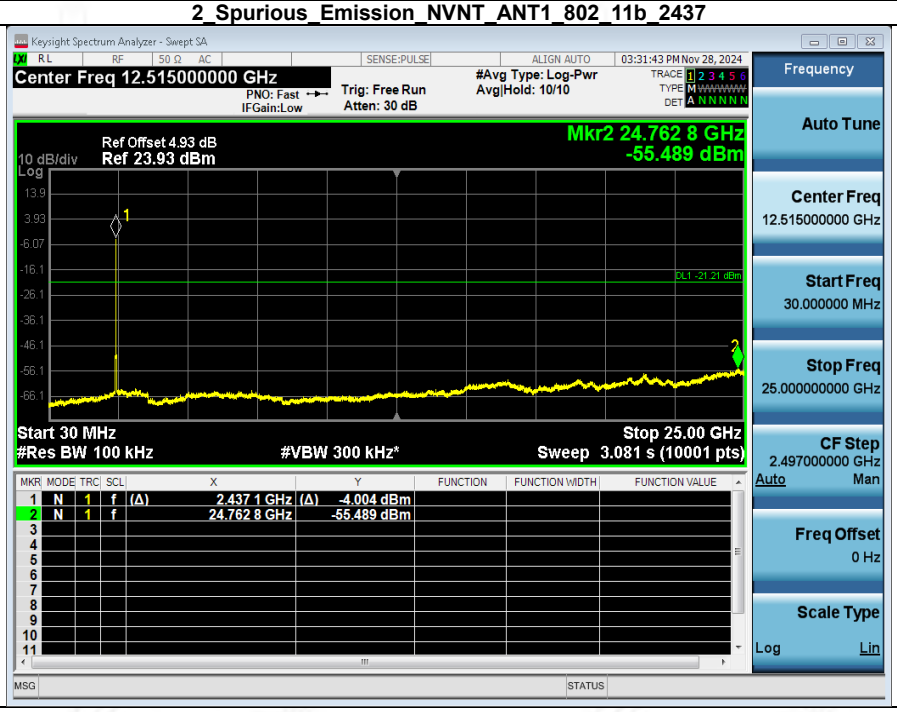
1_Reference_Level_NVNT_ANT1_802_11b_2437



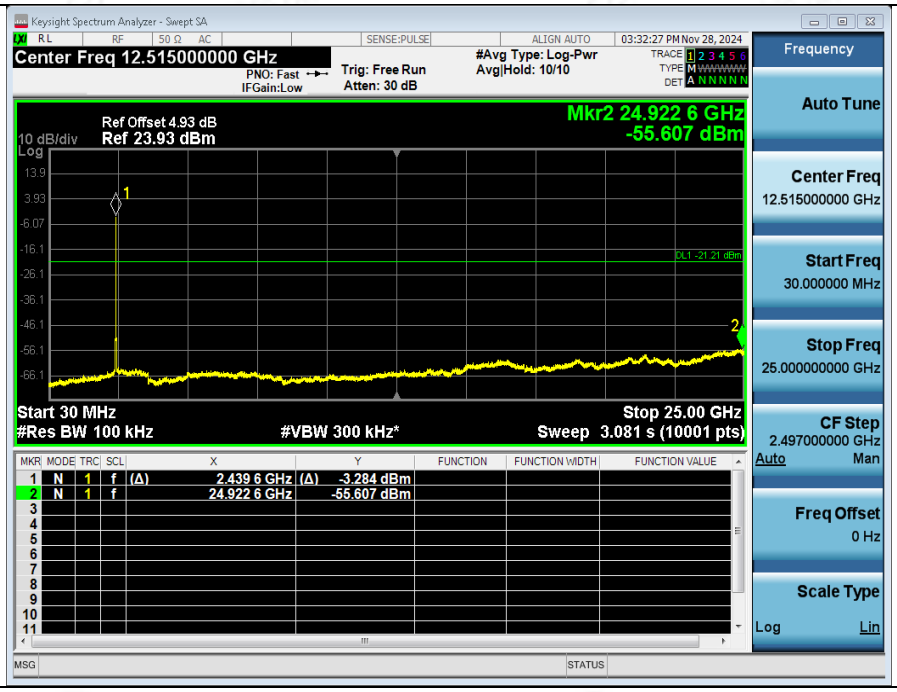
1_Reference_Level_NVNT_ANT2_802_11b_2437



2_Spurious_Emission_NVNT_ANT1_802_11b_2437

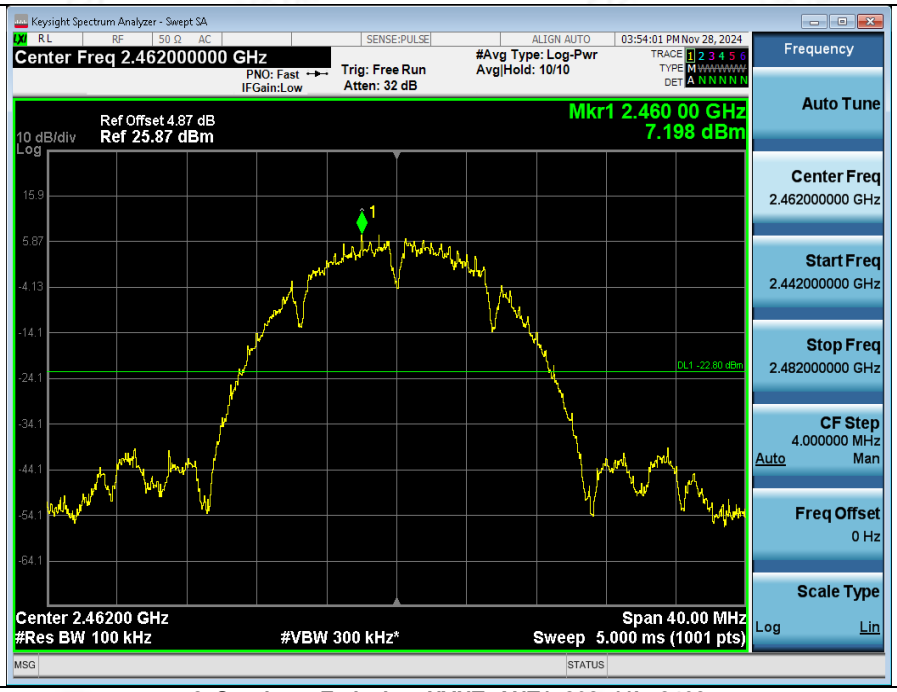


2_Spurious_Emission_NVNT_ANT2_802_11b_2437

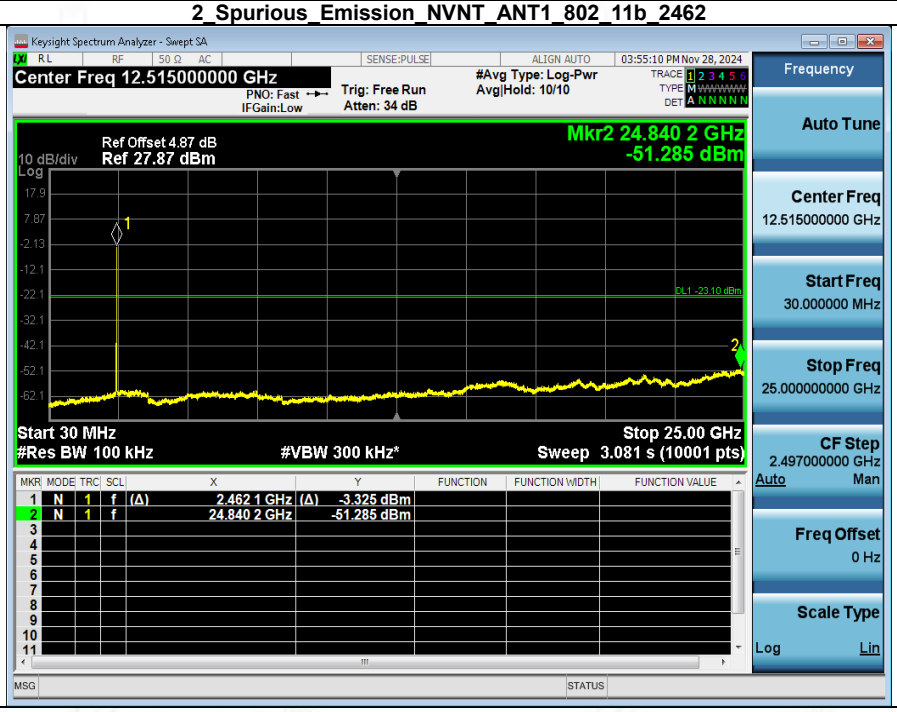


1_Reference_Level_NVNT_ANT1_802_11b_2462

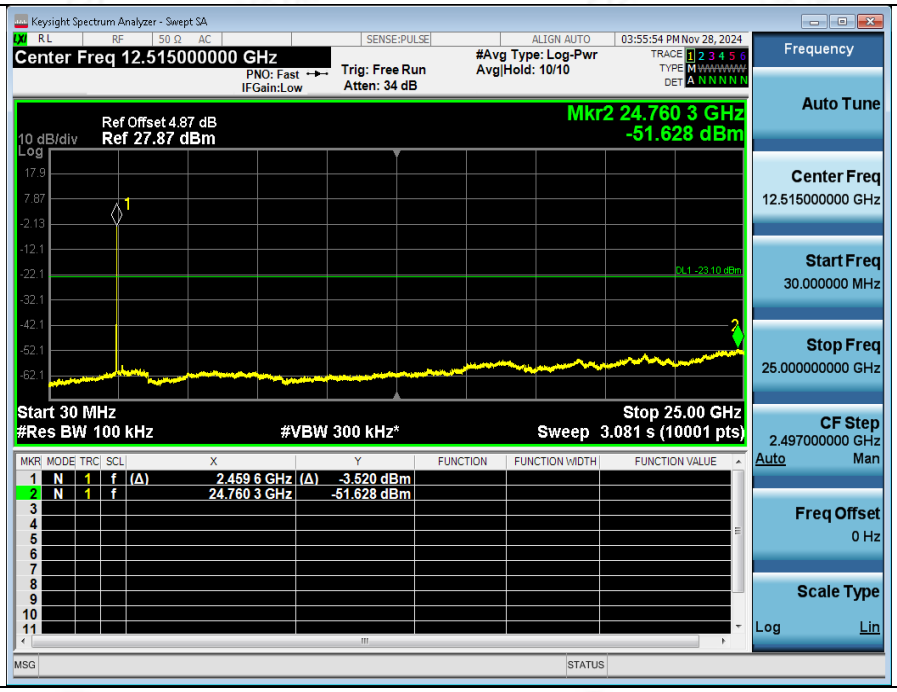
1_Reference_Level_NVNT_ANT2_802_11b_2462



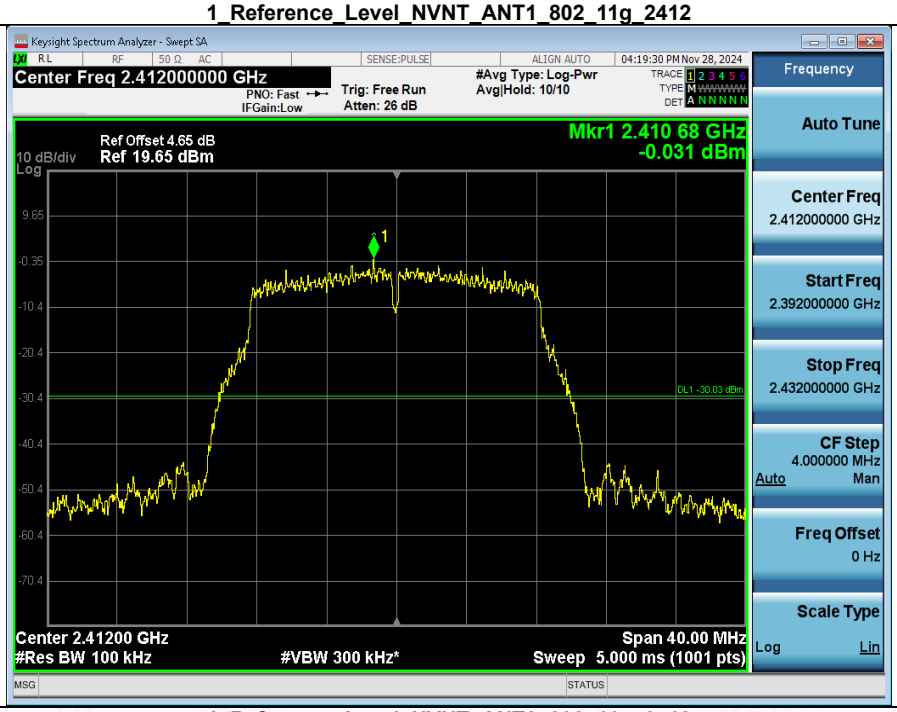
2_Spurious_Emission_NVNT_ANT1_802_11b_2462



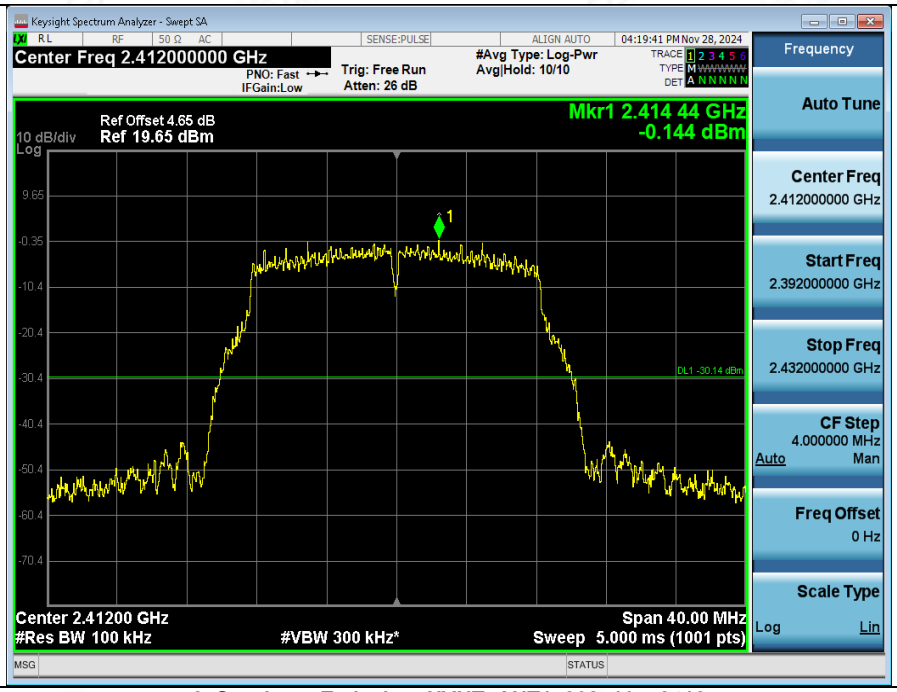
2_Spurious_Emission_NVNT_ANT2_802_11b_2462



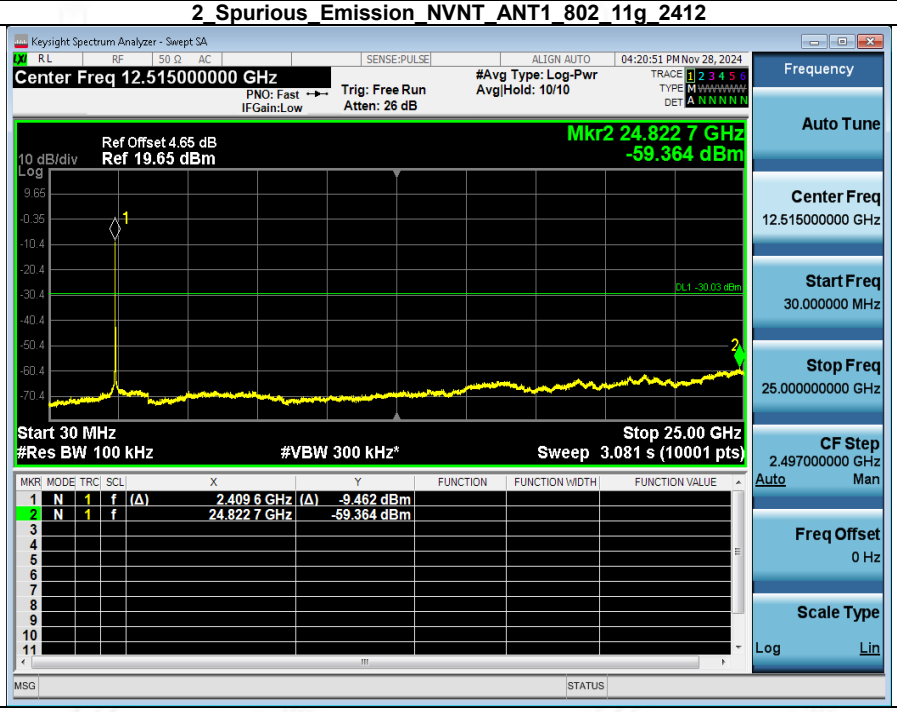
1_Reference_Level_NVNT_ANT1_802_11g_2412



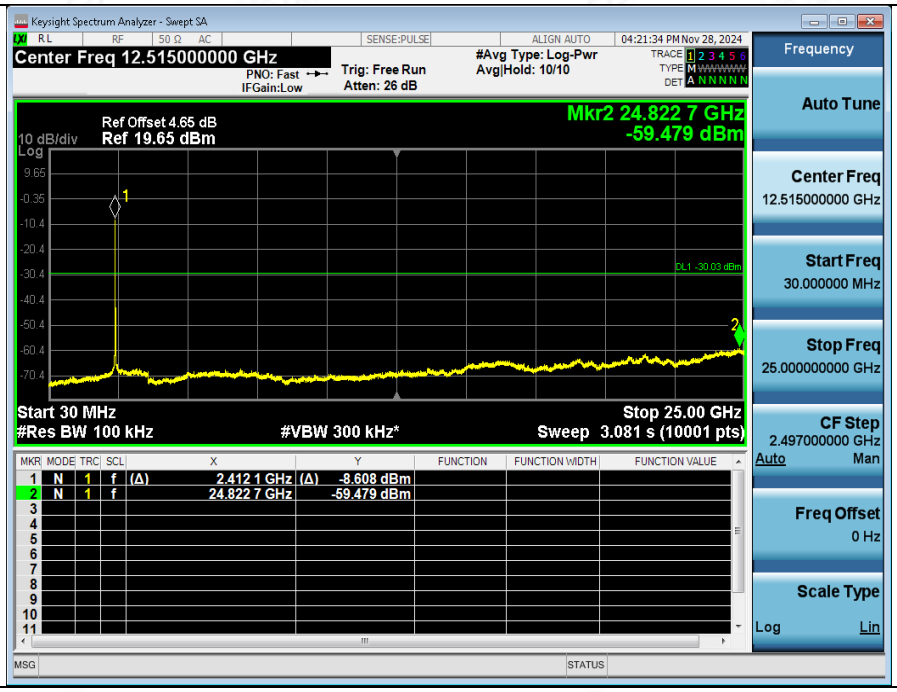
1_Reference_Level_NVNT_ANT2_802_11g_2412



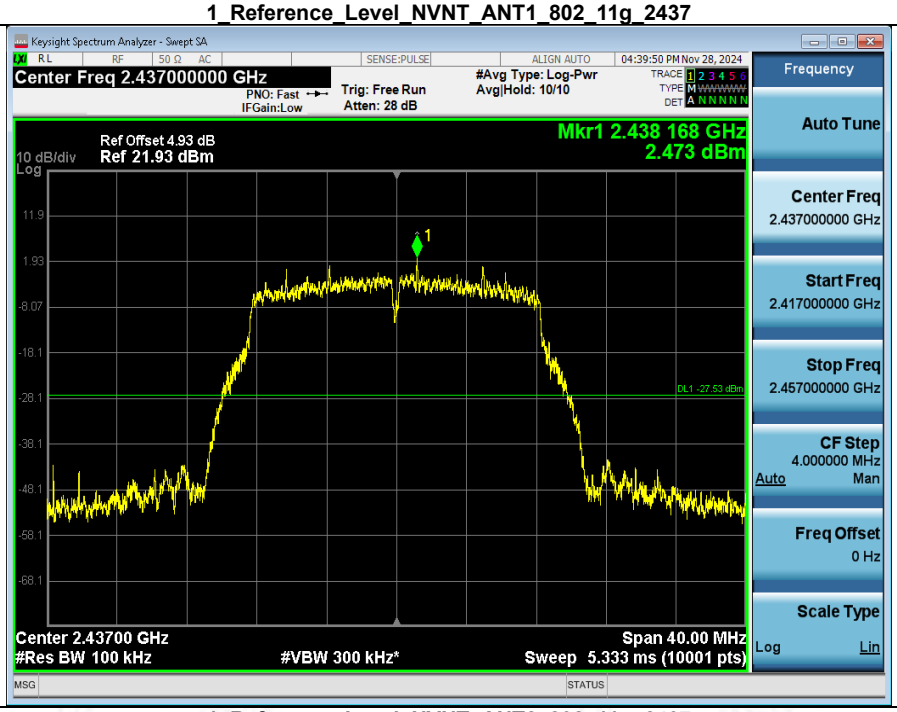
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



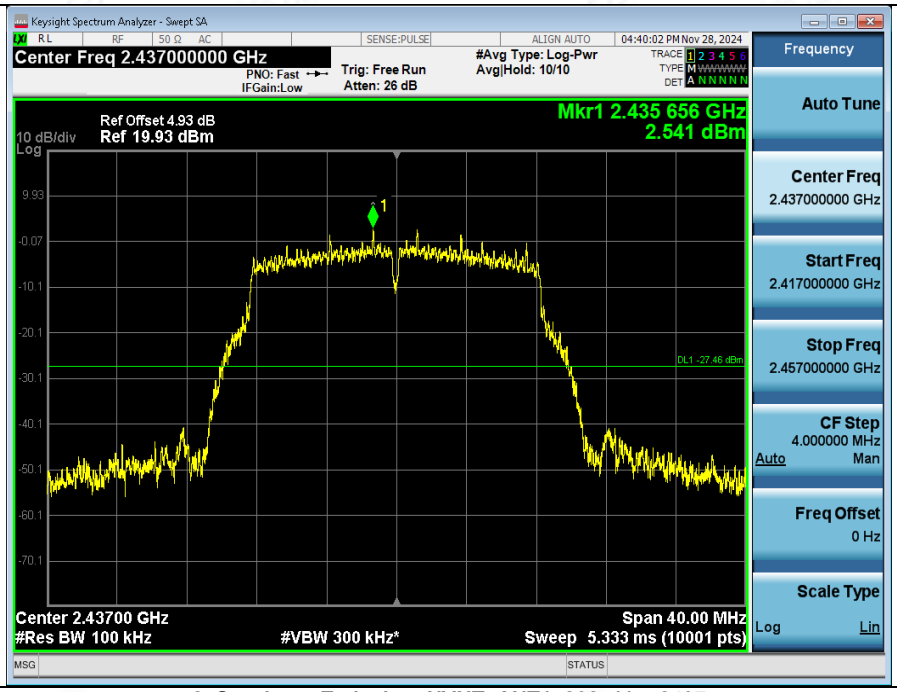
2_Spurious_Emission_NVNT_ANT2_802_11g_2412



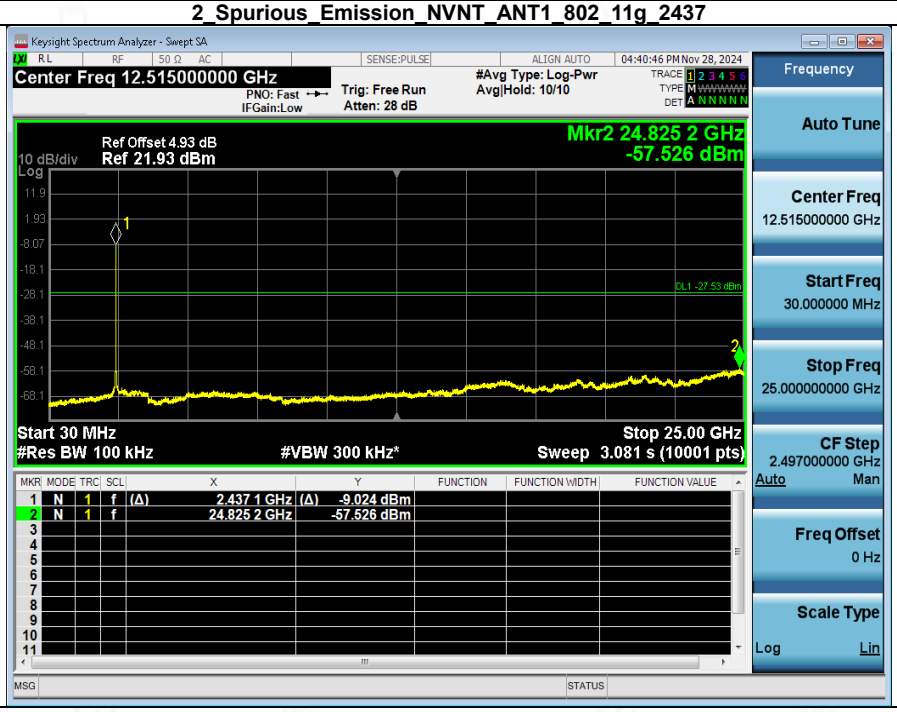
1_Reference_Level_NVNT_ANT1_802_11g_2437



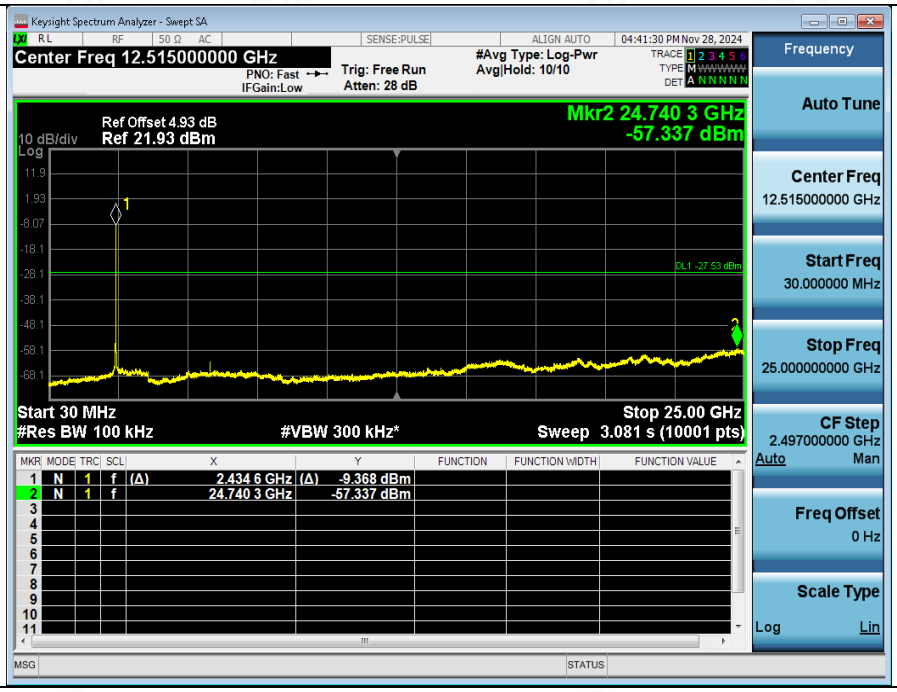
1_Reference_Level_NVNT_ANT2_802_11g_2437



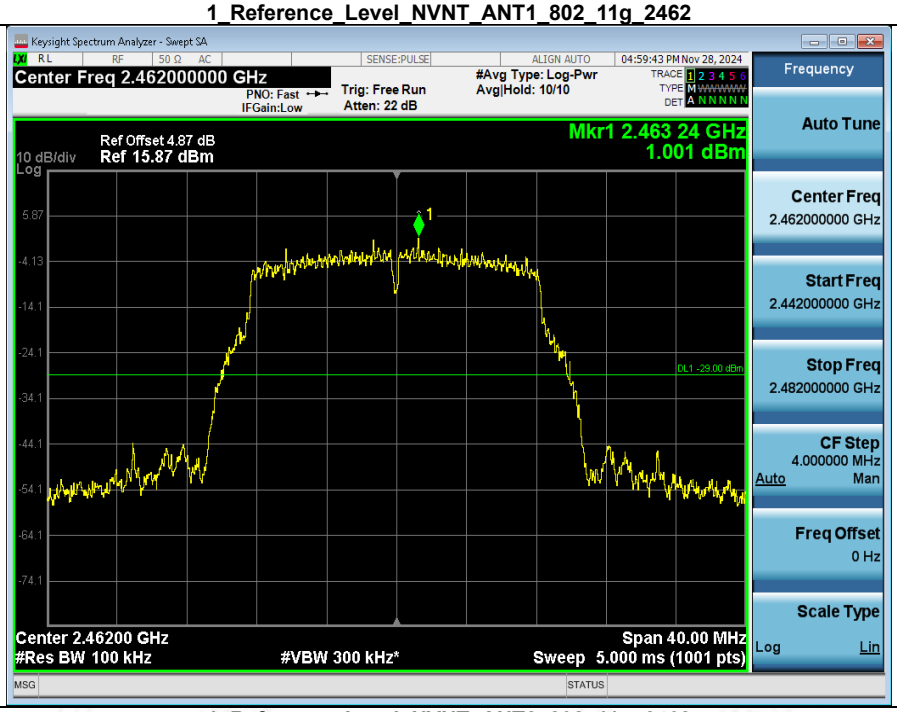
2_Spurious_Emission_NVNT_ANT1_802_11g_2437



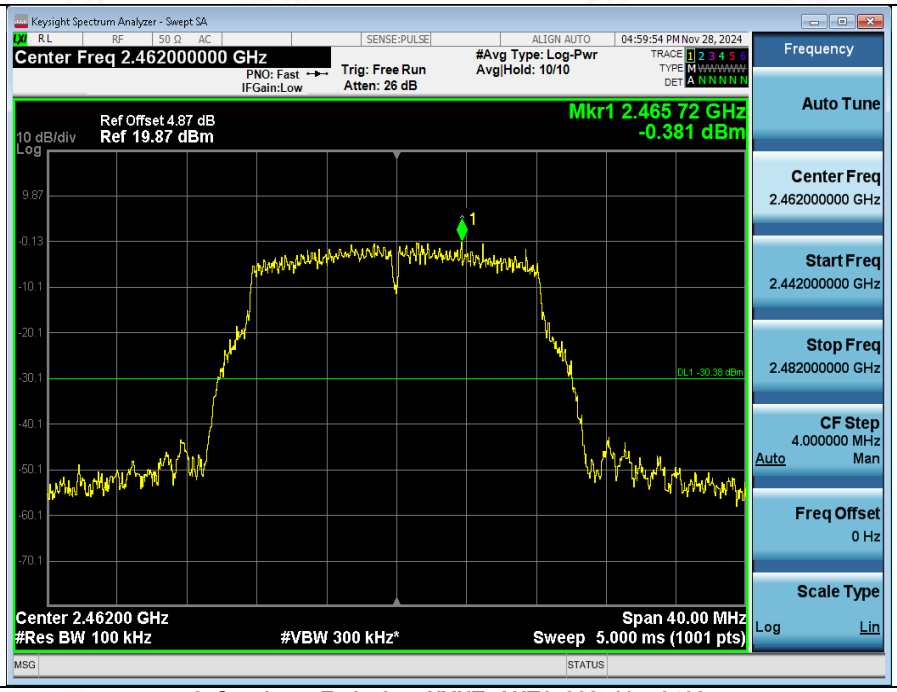
2_Spurious_Emission_NVNT_ANT2_802_11g_2437



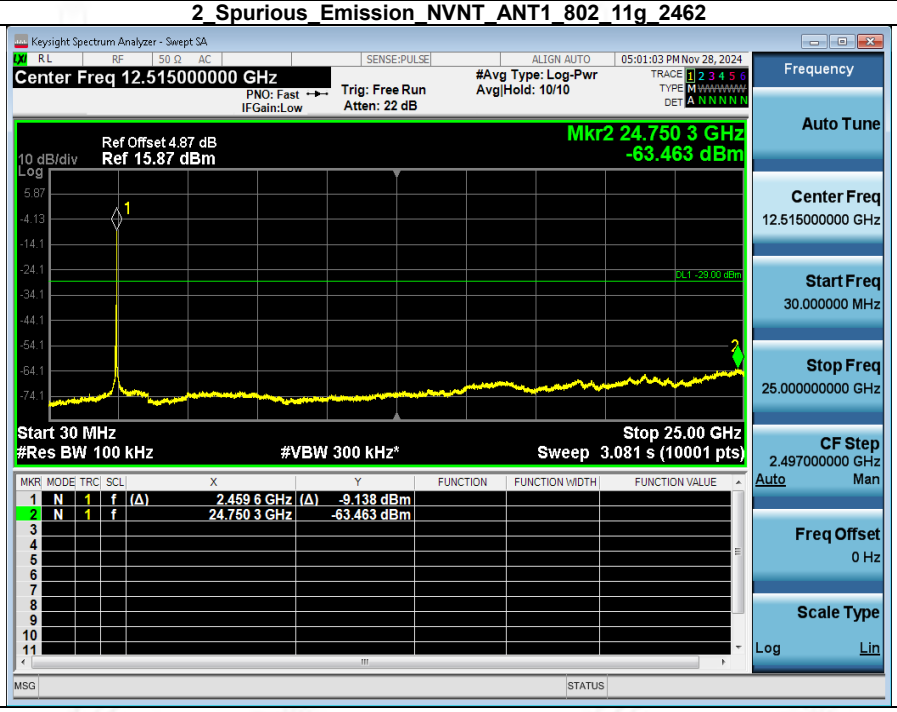
1_Reference_Level_NVNT_ANT1_802_11g_2462



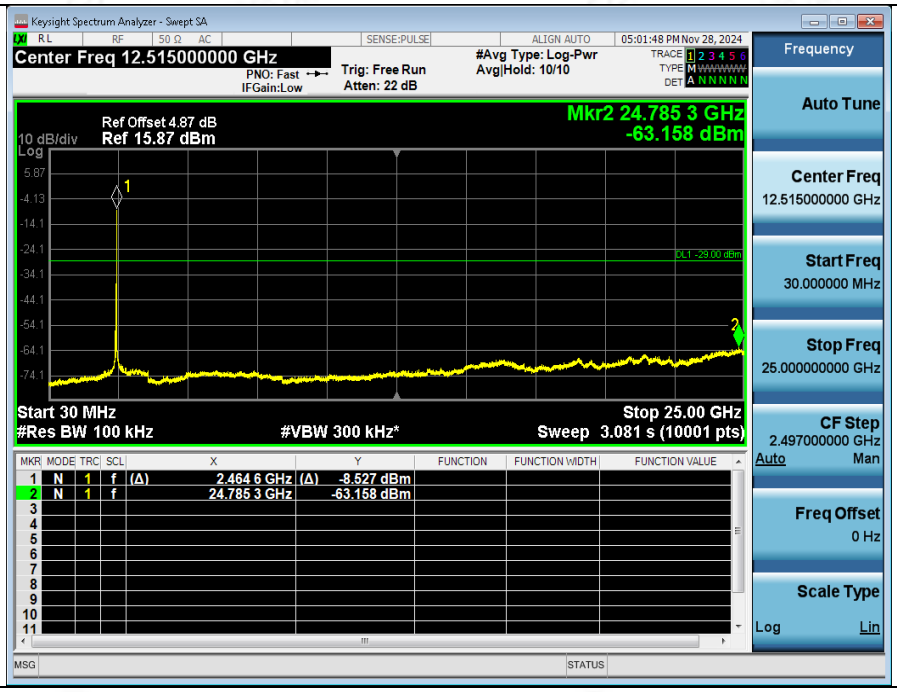
1_Reference_Level_NVNT_ANT2_802_11g_2462



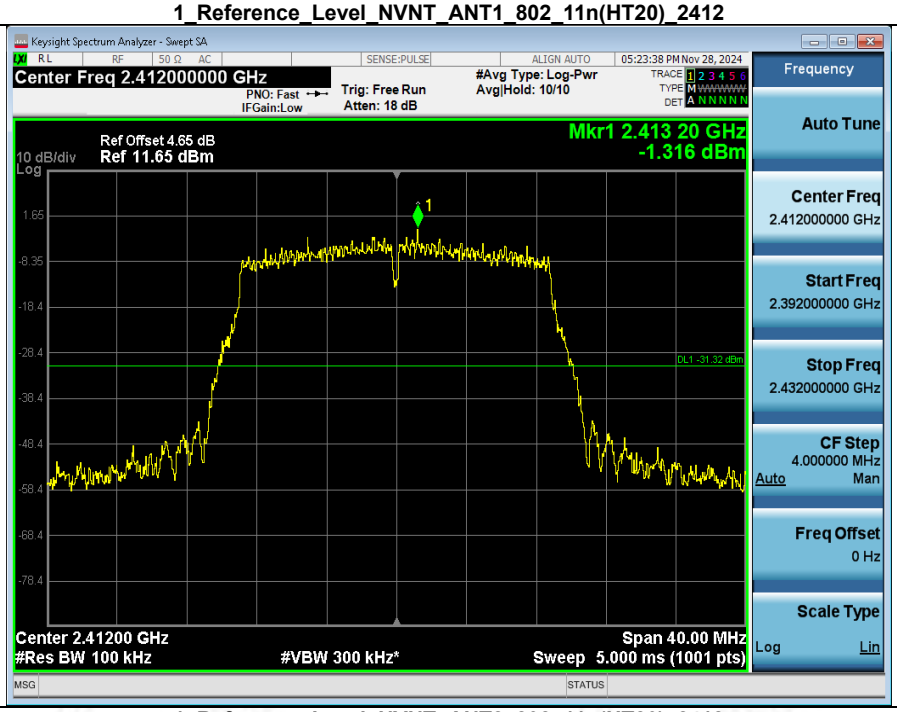
2_Spurious_Emission_NVNT_ANT1_802_11g_2462



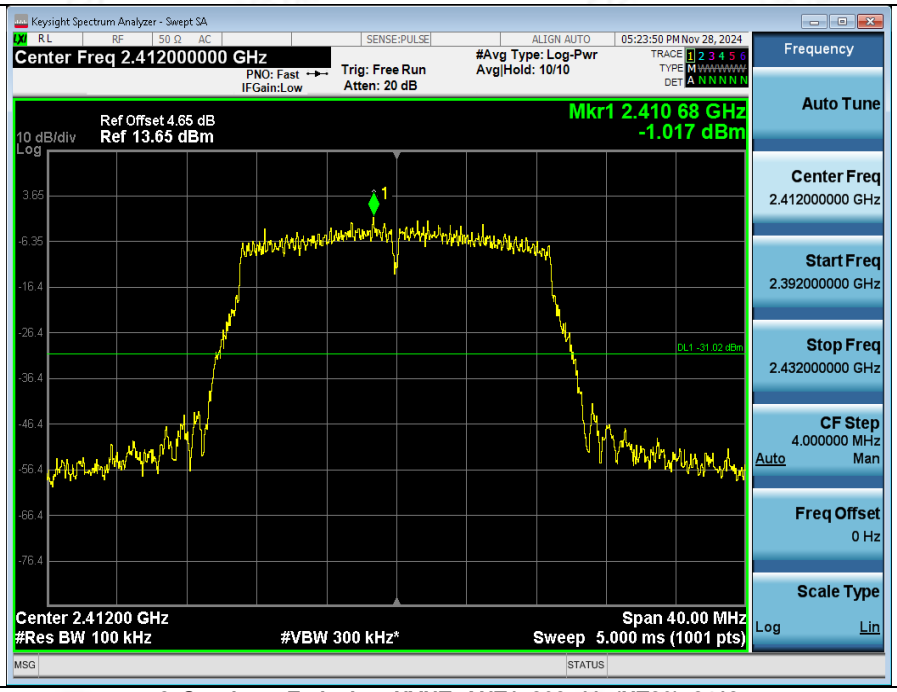
2_Spurious_Emission_NVNT_ANT2_802_11g_2462



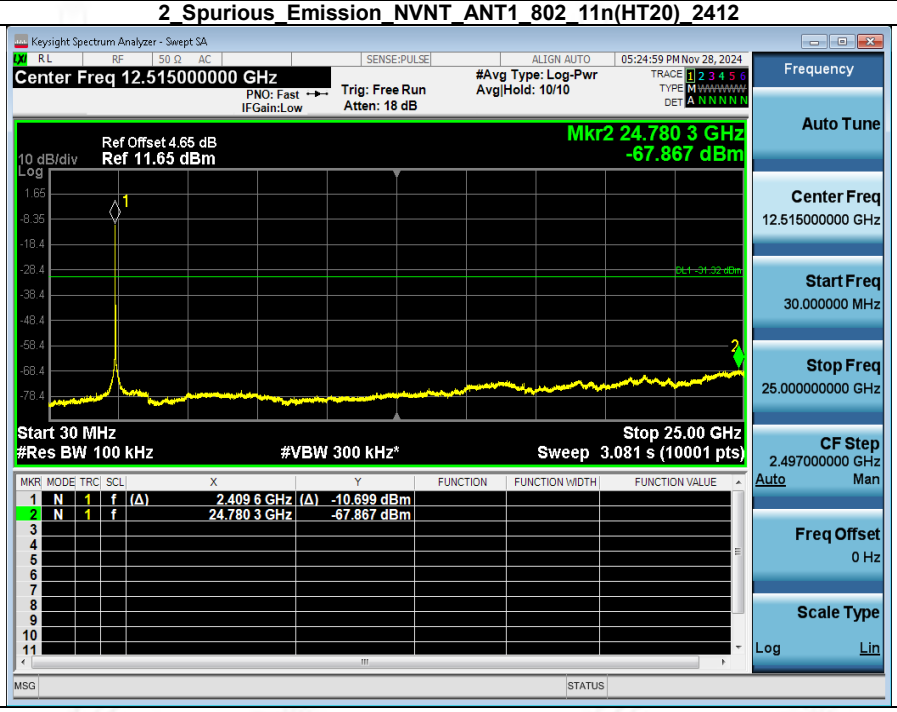
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



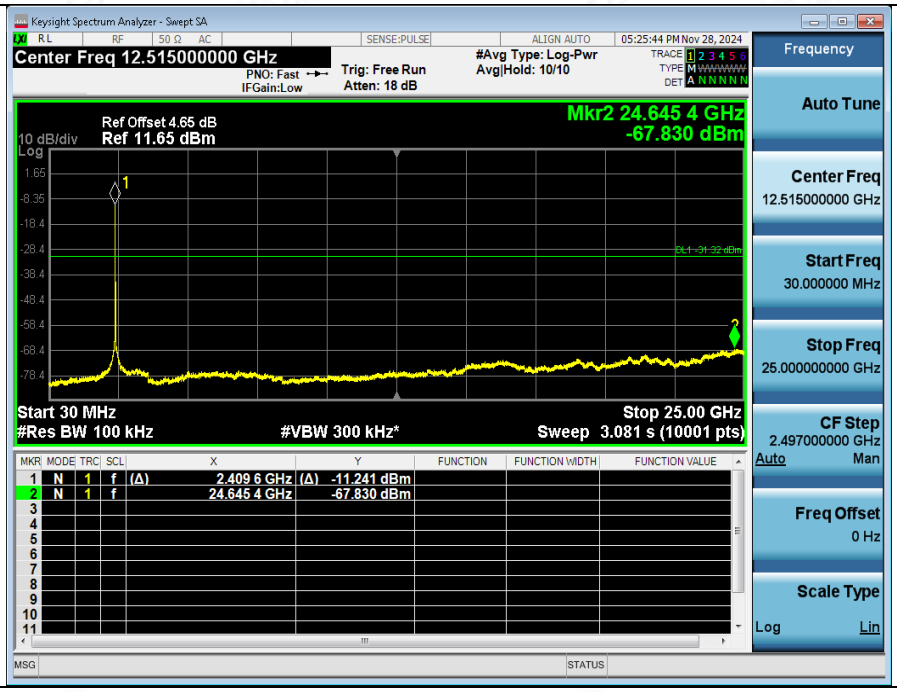
1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2412



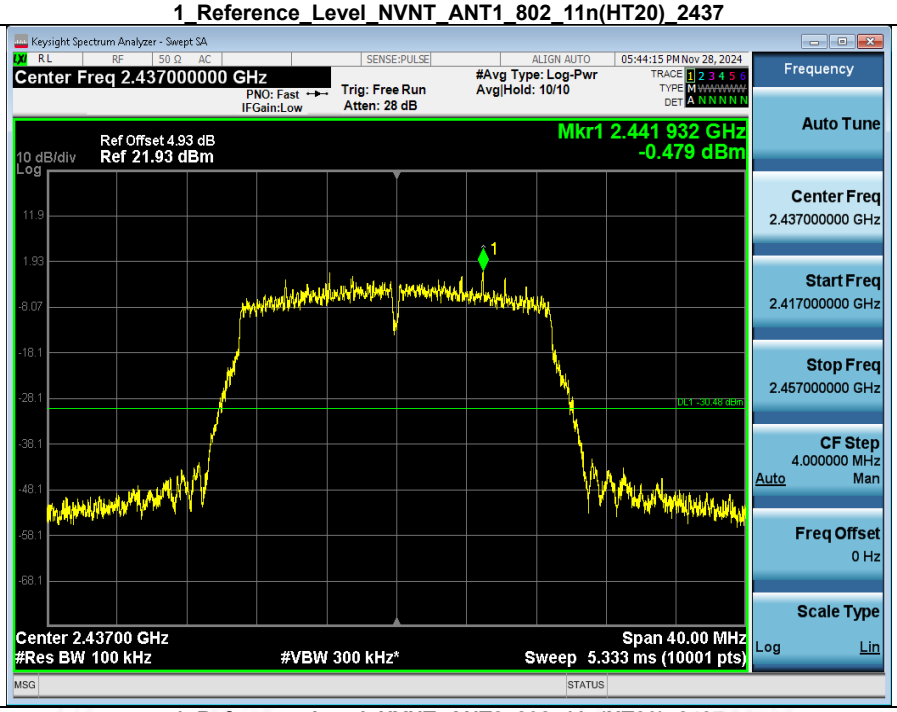
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



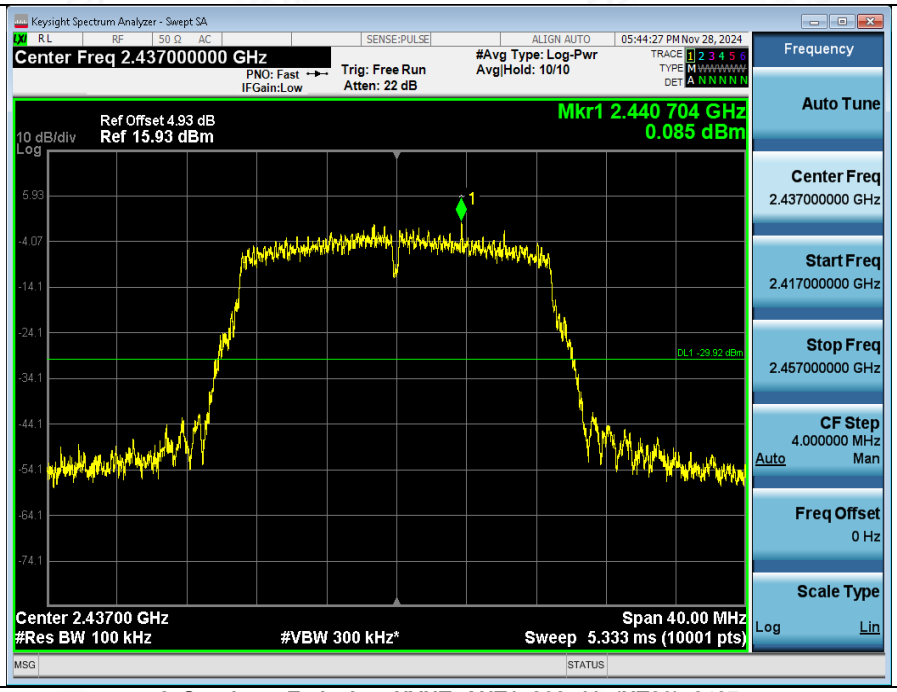
2_Spurious_Emission_NVNT_ANT2_802_11n(HT20)_2412



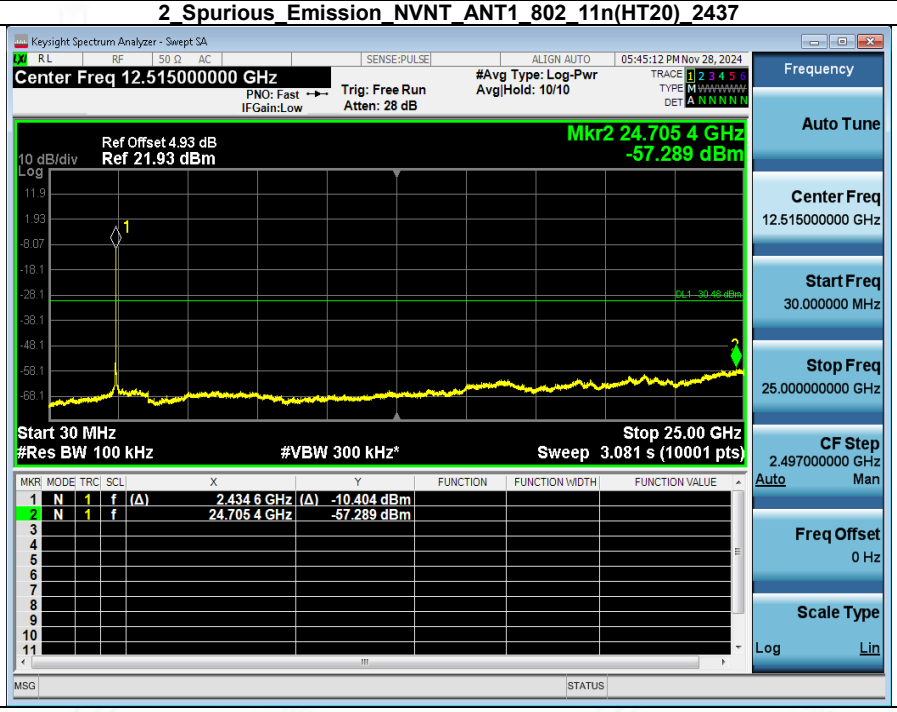
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



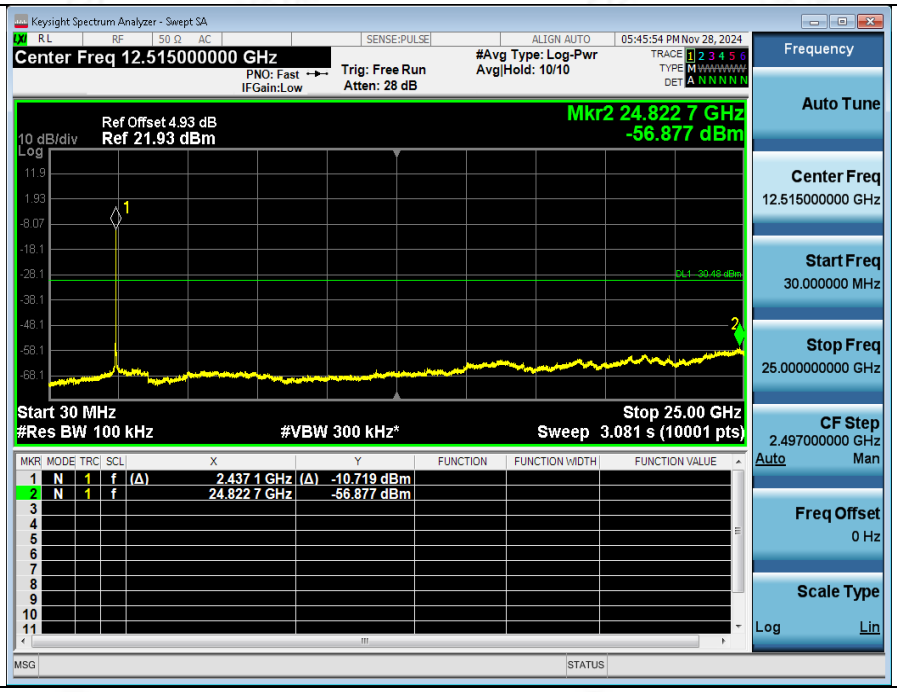
1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2437



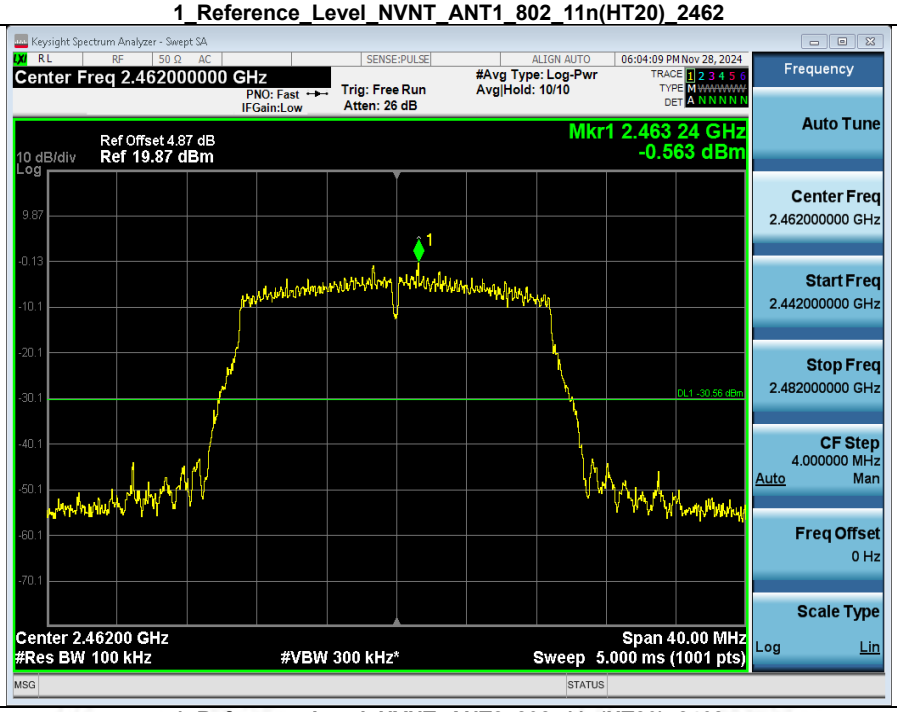
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



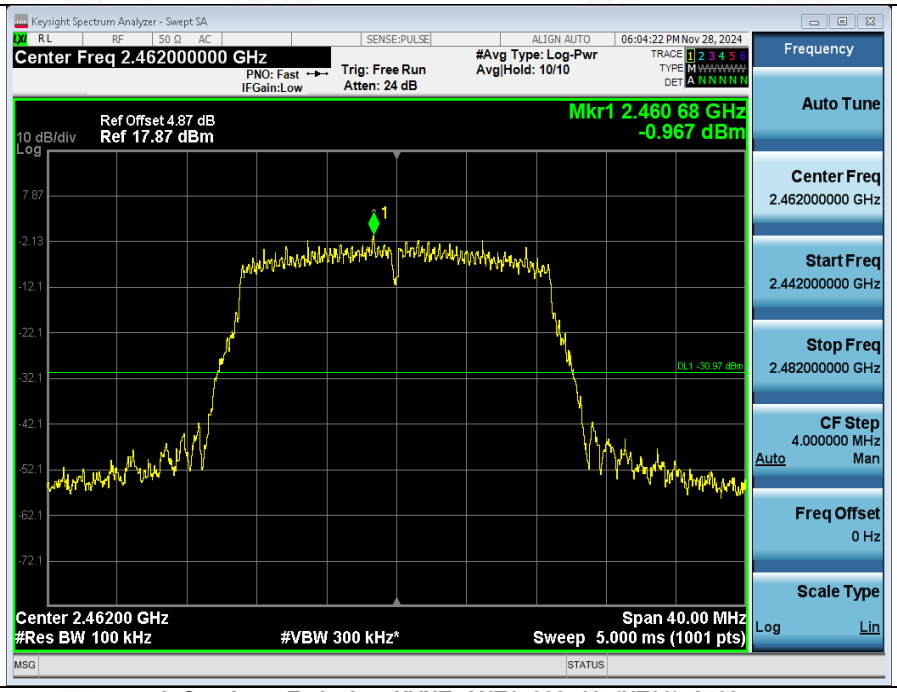
2_Spurious_Emission_NVNT_ANT2_802_11n(HT20)_2437



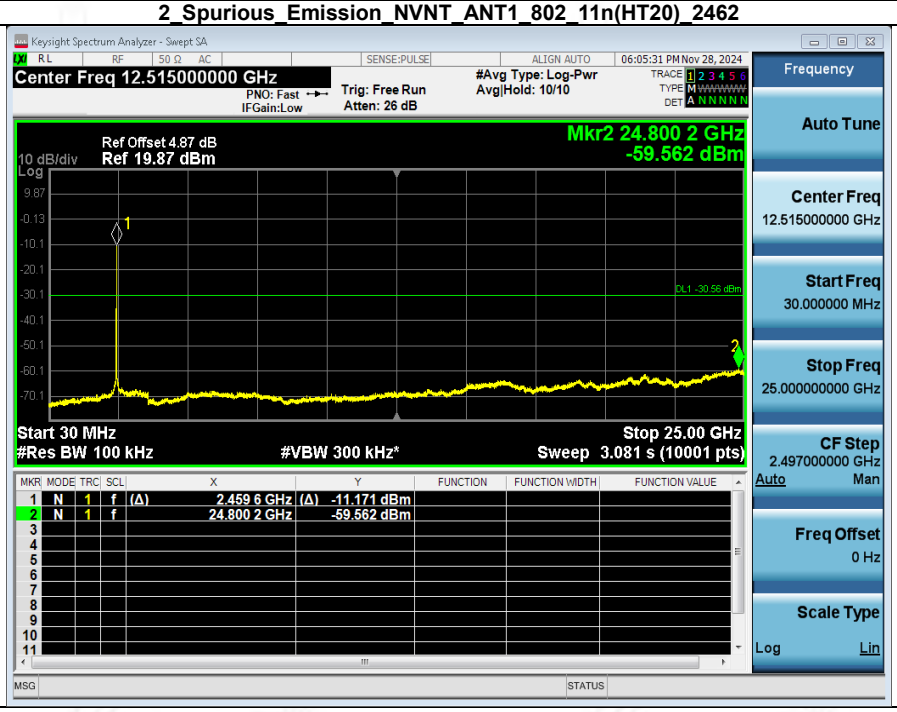
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



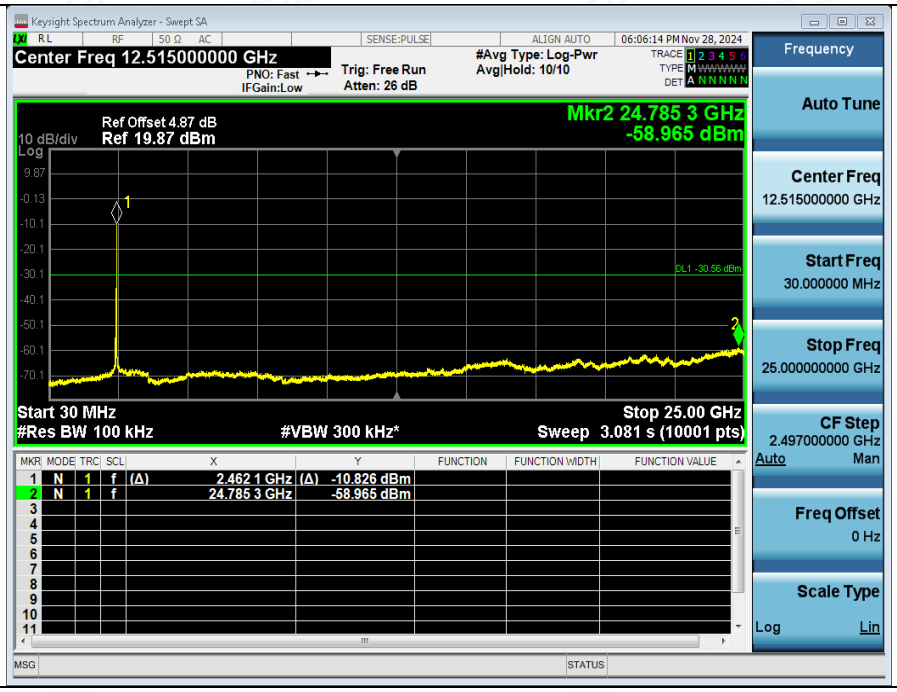
1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2462



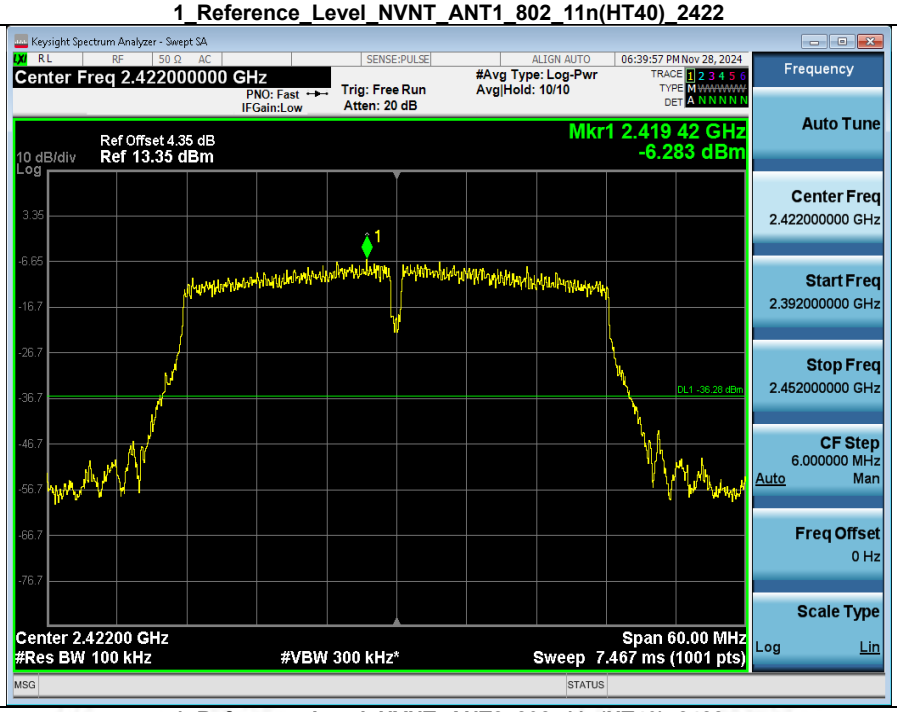
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



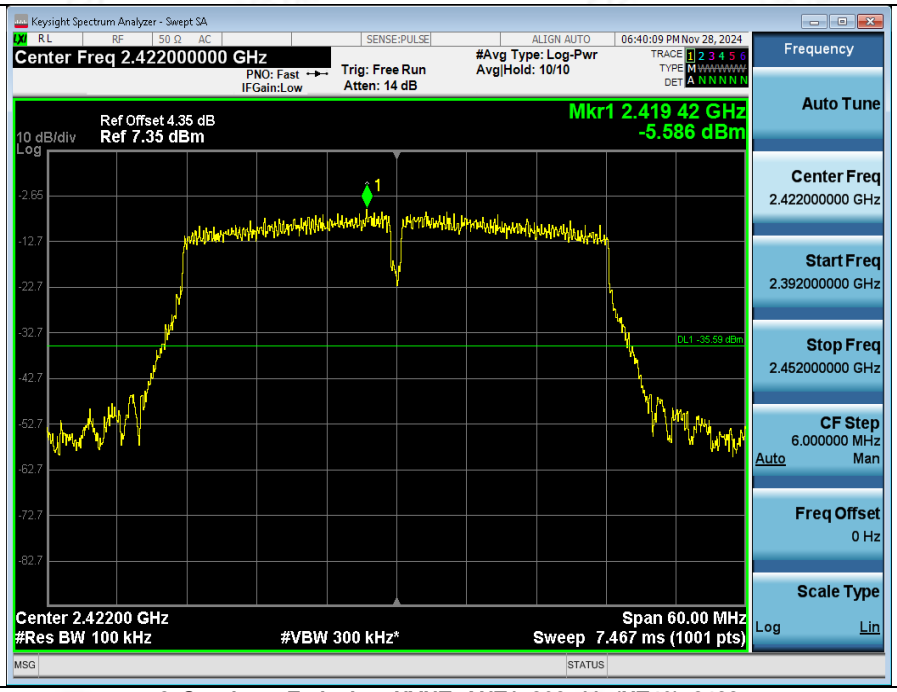
2_Spurious_Emission_NVNT_ANT2_802_11n(HT20)_2462



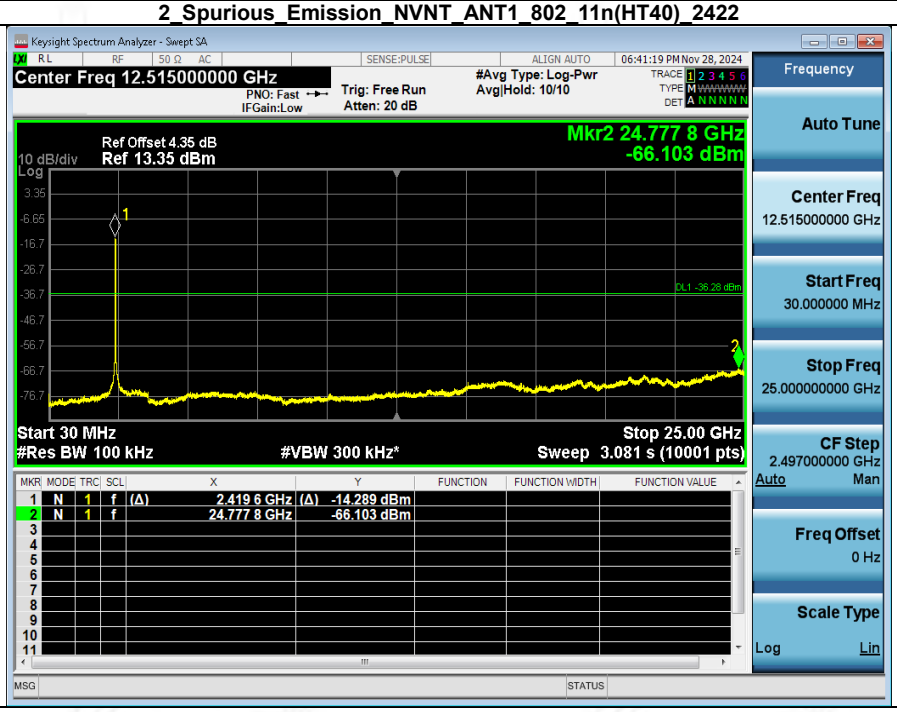
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



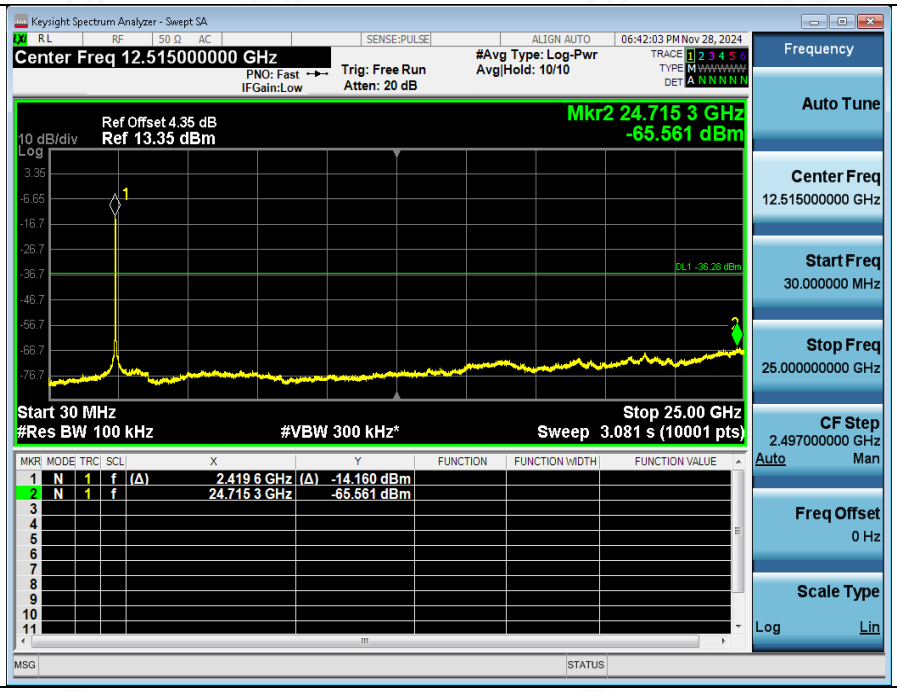
1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2422



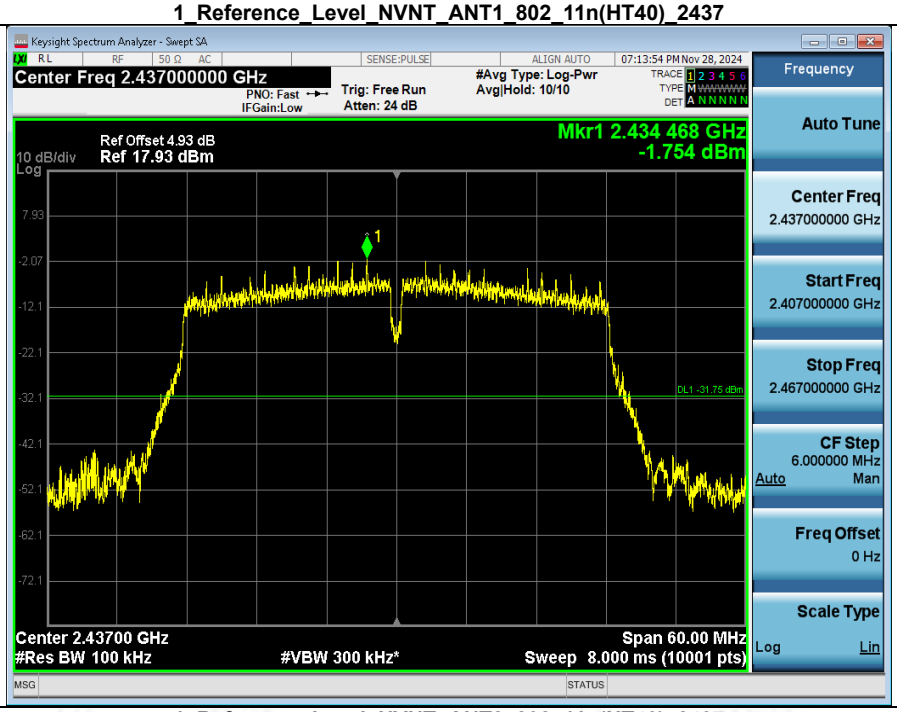
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



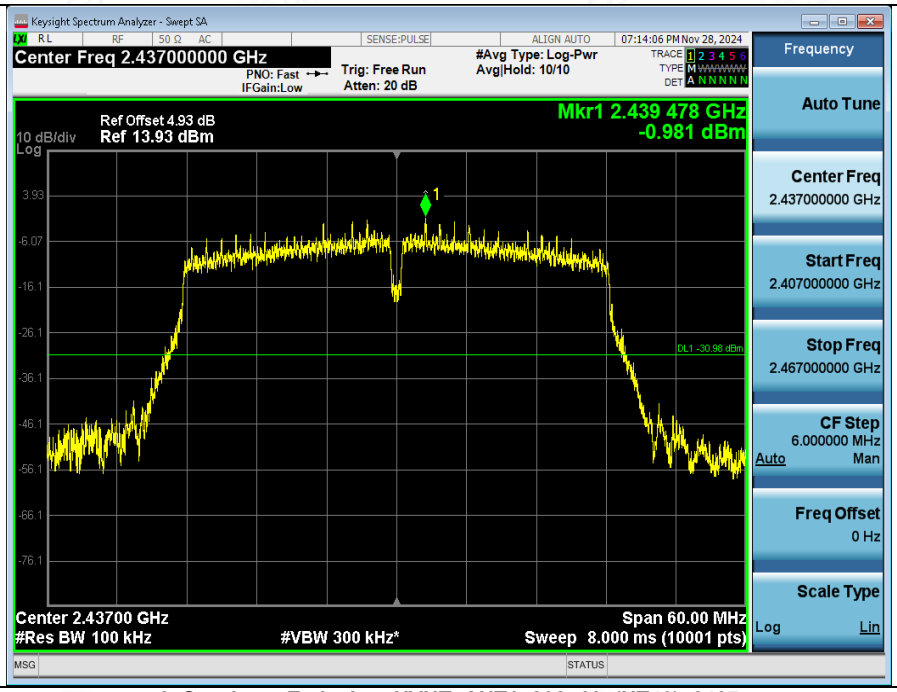
2_Spurious_Emission_NVNT_ANT2_802_11n(HT40)_2422



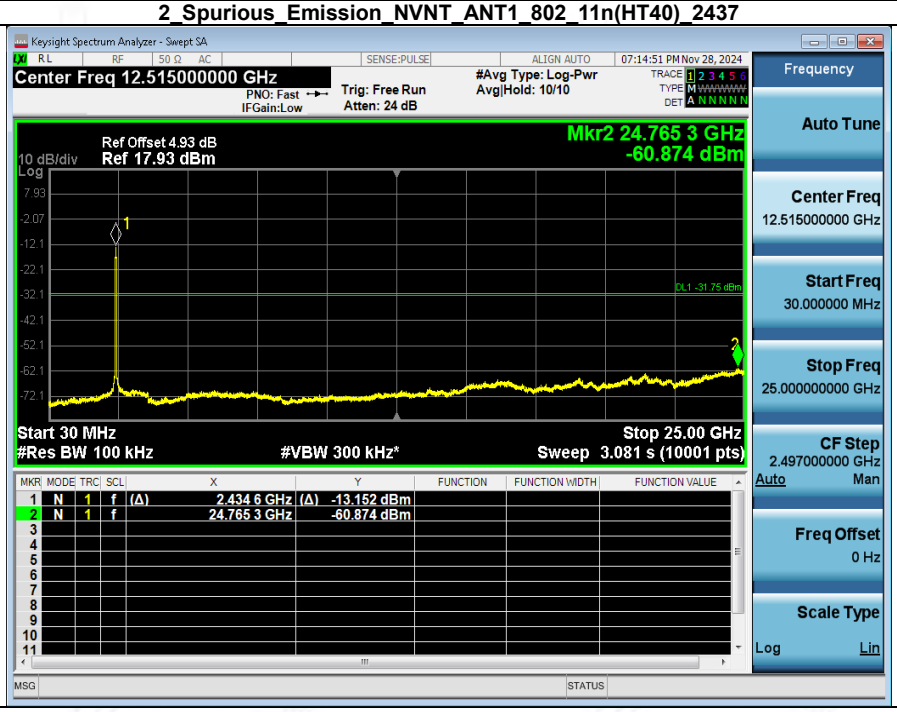
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437



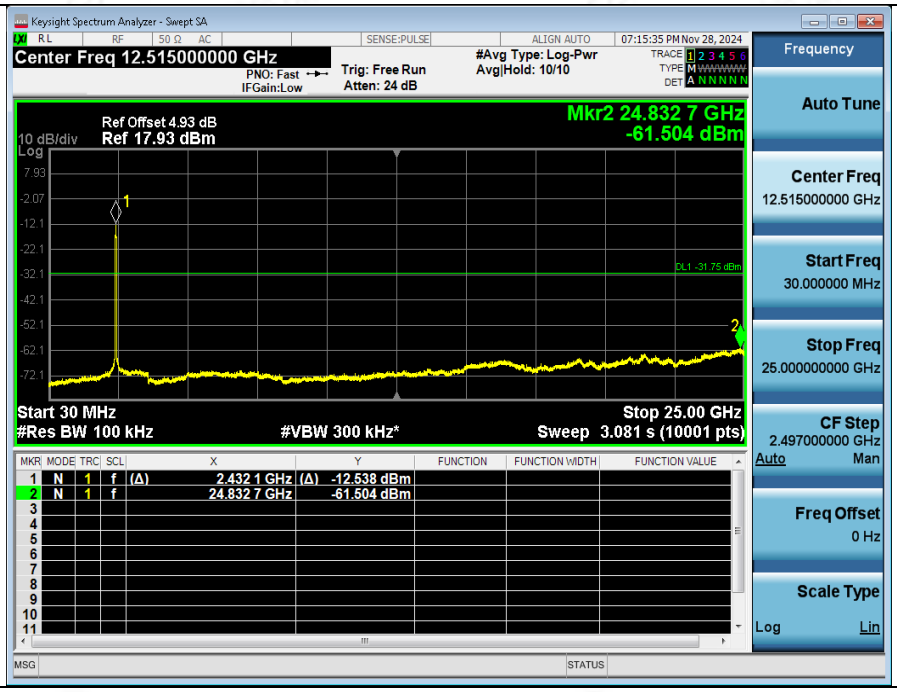
1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2437



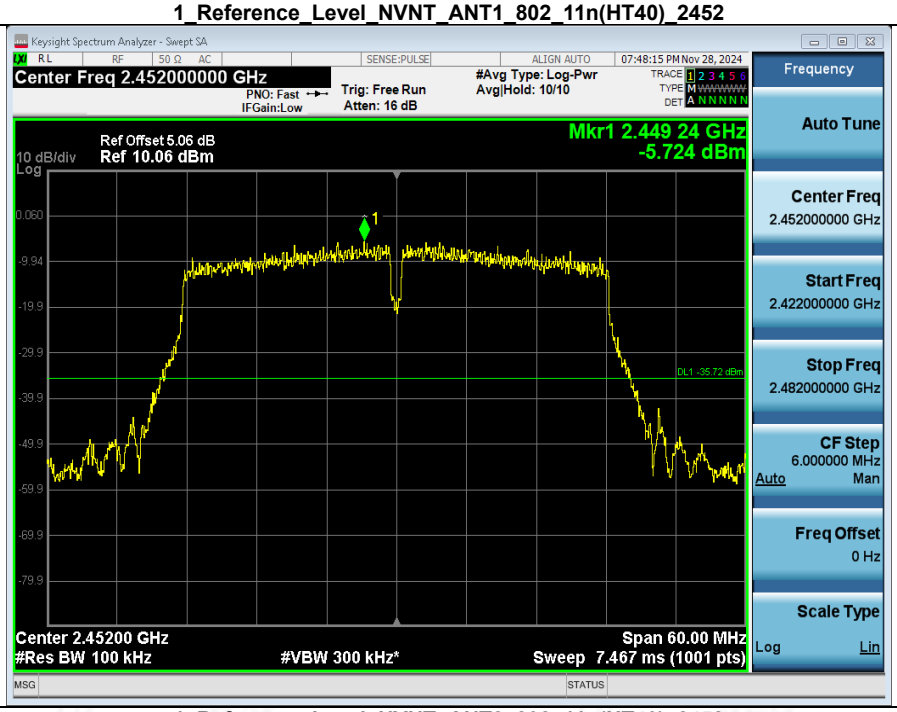
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



2_Spurious_Emission_NVNT_ANT2_802_11n(HT40)_2437

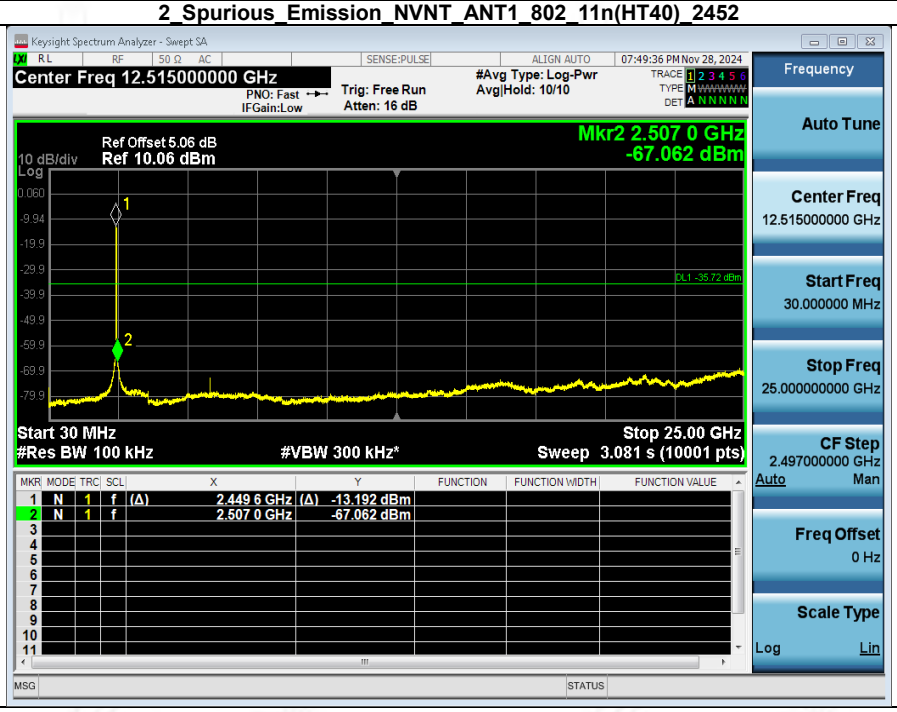


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452

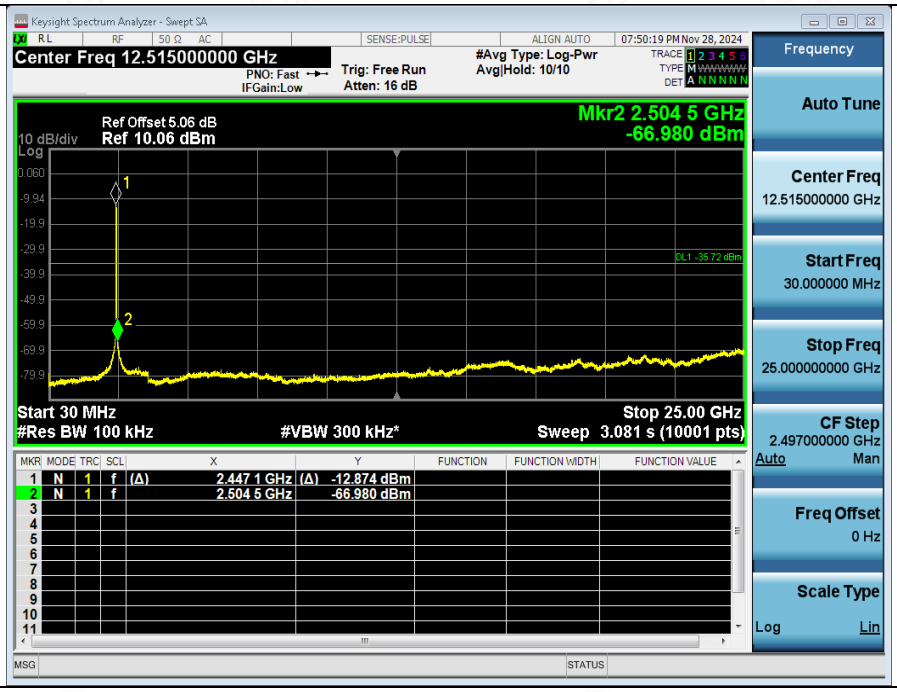


1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2452

2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT2_802_11n(HT40)_2452


Keysight Spectrum Analyzer - Swept SA
Center Freq 12.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 16 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
07:50:19 PM Nov 28, 2024
Ref Offset 5.06 dB
10 dB/div
Ref 10.06 dBm
Mkr2 2.504 5 GHz
-66.980 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 25.00 GHz
Sweep 3.081 s (10001 pts)
1 N 1 f (Δ) 2.447 1 GHz (Δ) -12.874 dBm
2 N 1 f 2.504 5 GHz -66.980 dBm
Frequency
Auto Tune
Center Freq
12.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
25.000000000 GHz
CF Step
2.497000000 GHz
Auto Man
Freq Offset
0 Hz
Scale Type
Log Lin