

Table of Contents

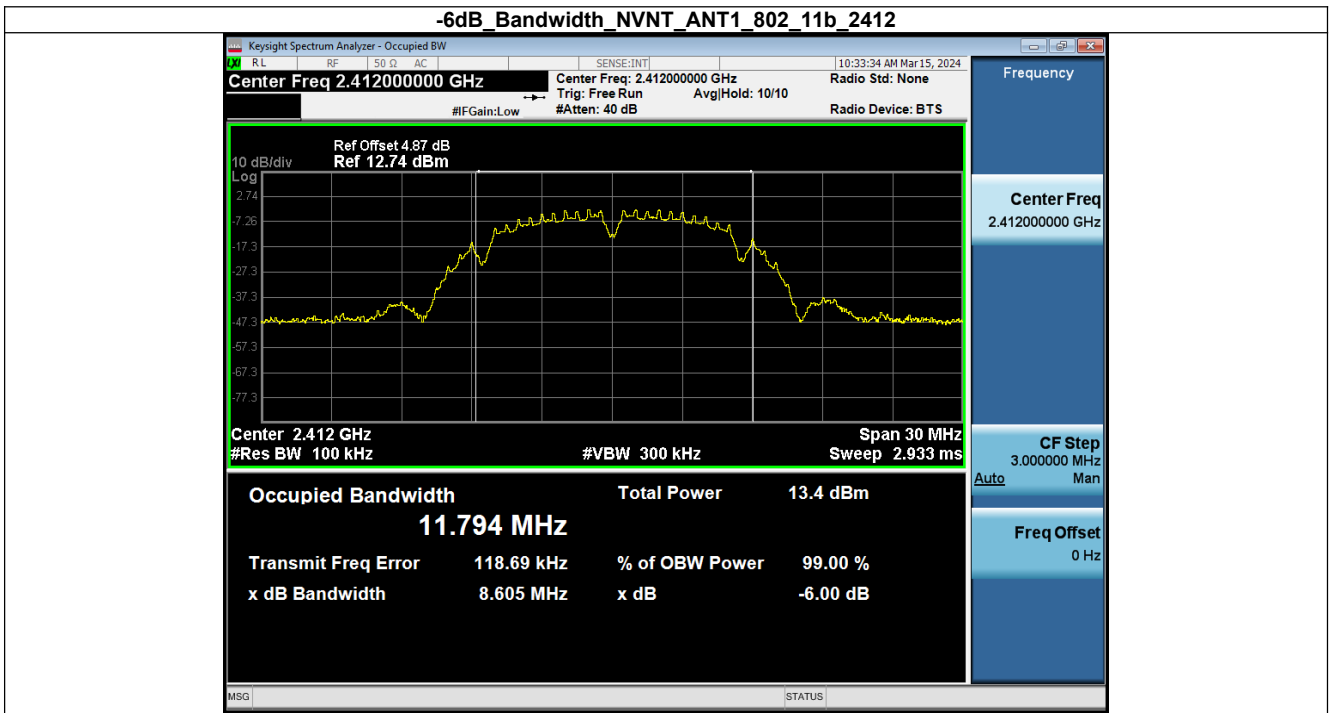
1. -6dB Bandwidth	2
2. 99% Occupied Bandwidth	9
3. Duty Cycle	16
4. MAX. Output Power	23
5. Power Spectral Density	30
6. Bandedge	37
7. Spurious Emission	45

FCC ID: 2BFIG-WSQ01

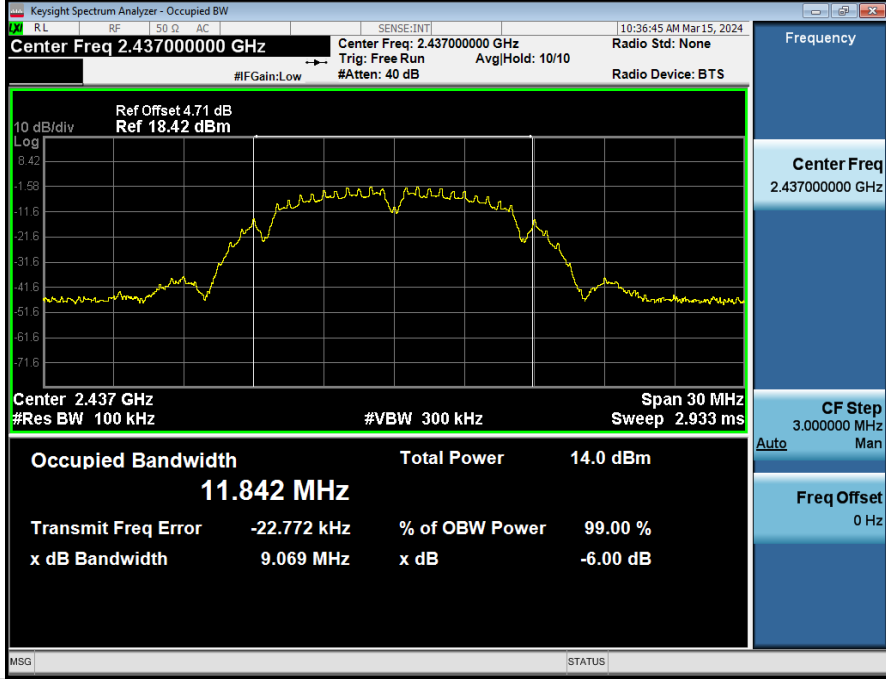
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

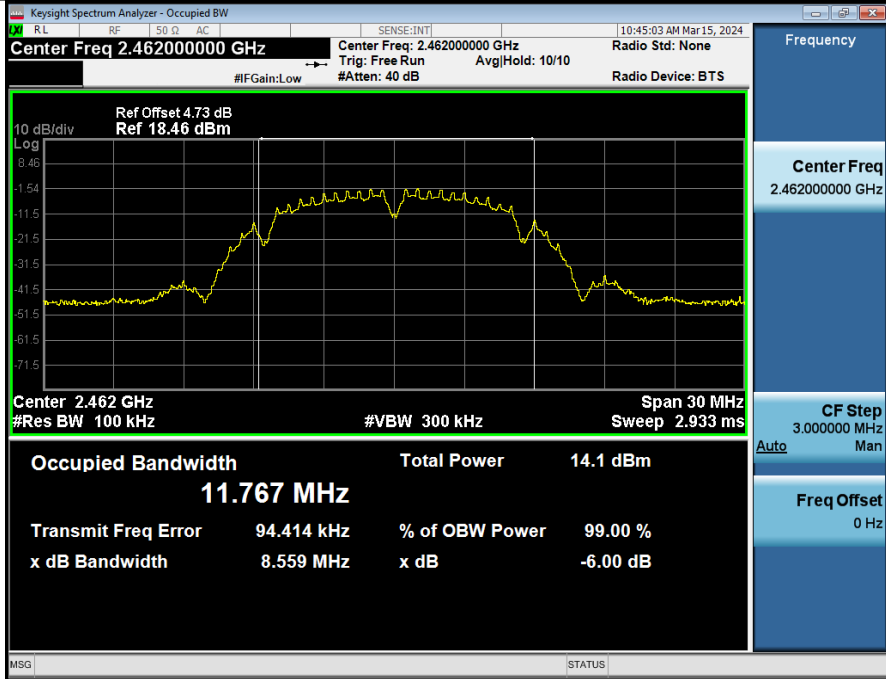
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.60	500	Pass
NVNT	ANT1	802.11b	2437.00	9.07	500	Pass
NVNT	ANT1	802.11b	2462.00	8.56	500	Pass
NVNT	ANT1	802.11g	2412.00	16.10	500	Pass
NVNT	ANT1	802.11g	2437.00	16.36	500	Pass
NVNT	ANT1	802.11g	2462.00	16.10	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.91	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.30	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.16	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.88	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.18	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.67	500	Pass



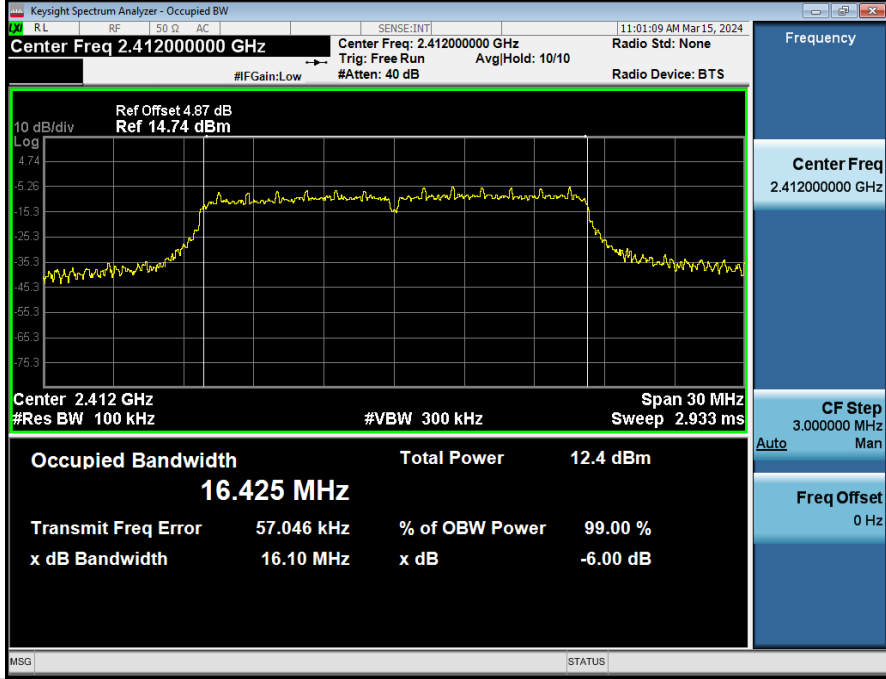
-6dB Bandwidth_NVNT_ANT1_802_11b_2437



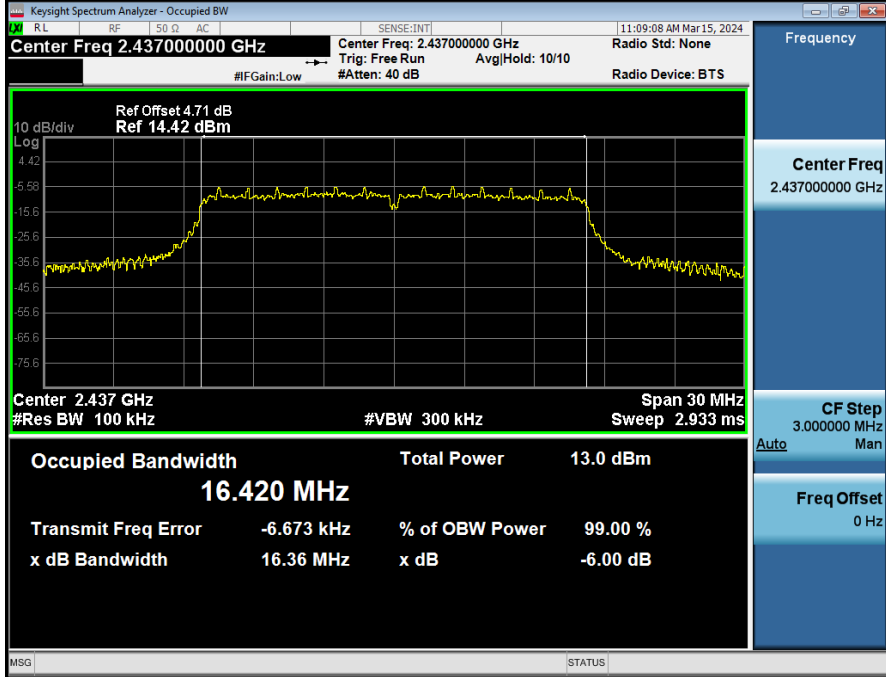
-6dB Bandwidth_NVNT_ANT1_802_11b_2462



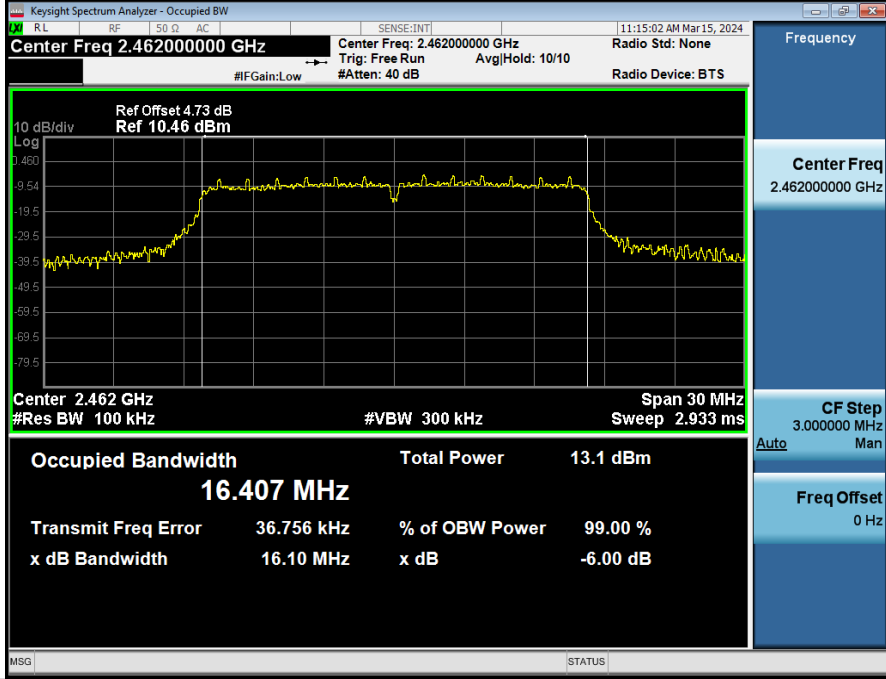
-6dB Bandwidth_NVNT_ANT1_802_11g_2412



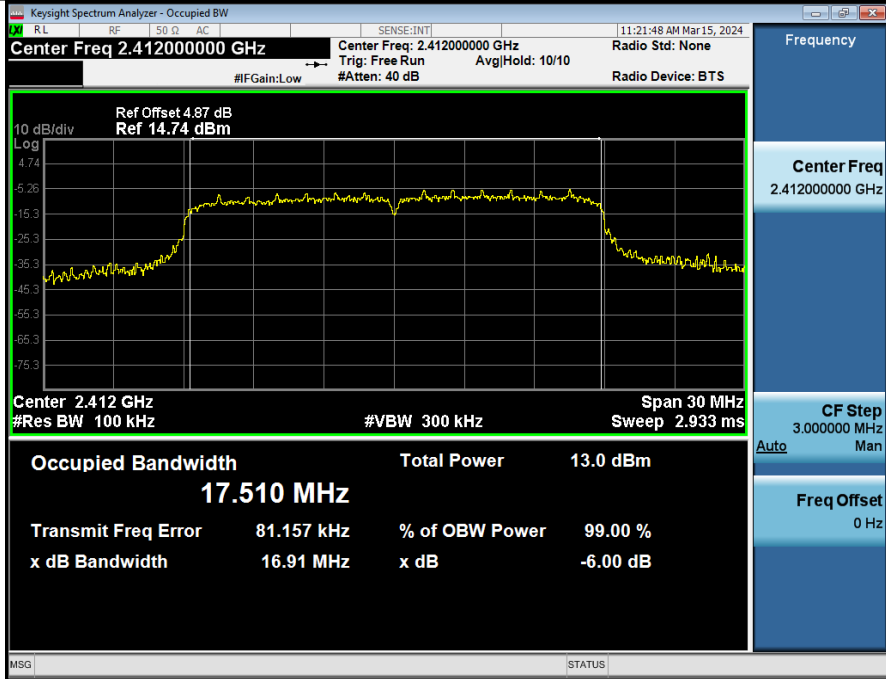
-6dB Bandwidth_NVNT_ANT1_802_11g_2437



-6dB Bandwidth_NVNT_ANT1_802_11g_2462



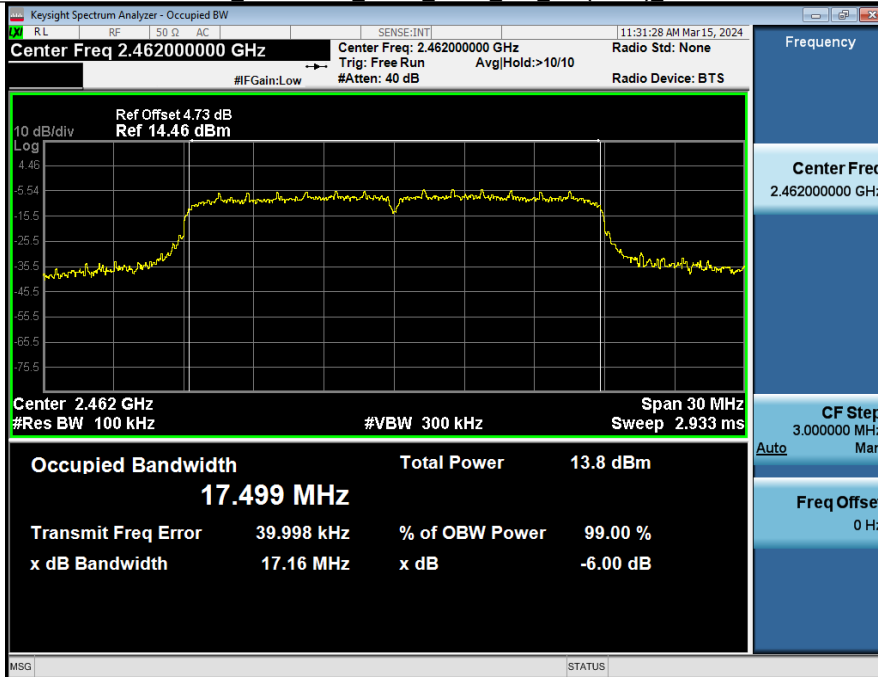
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



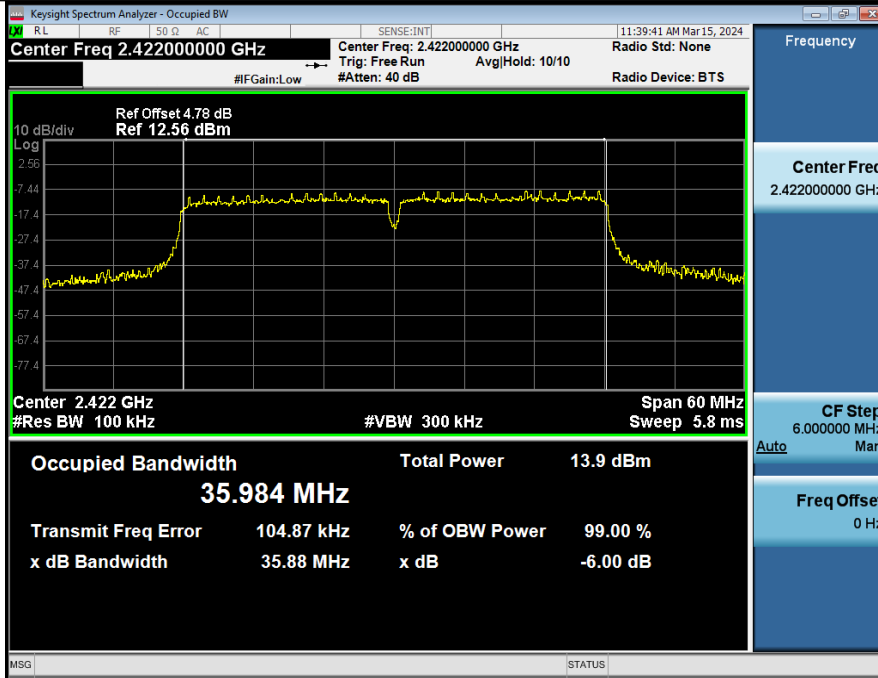
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



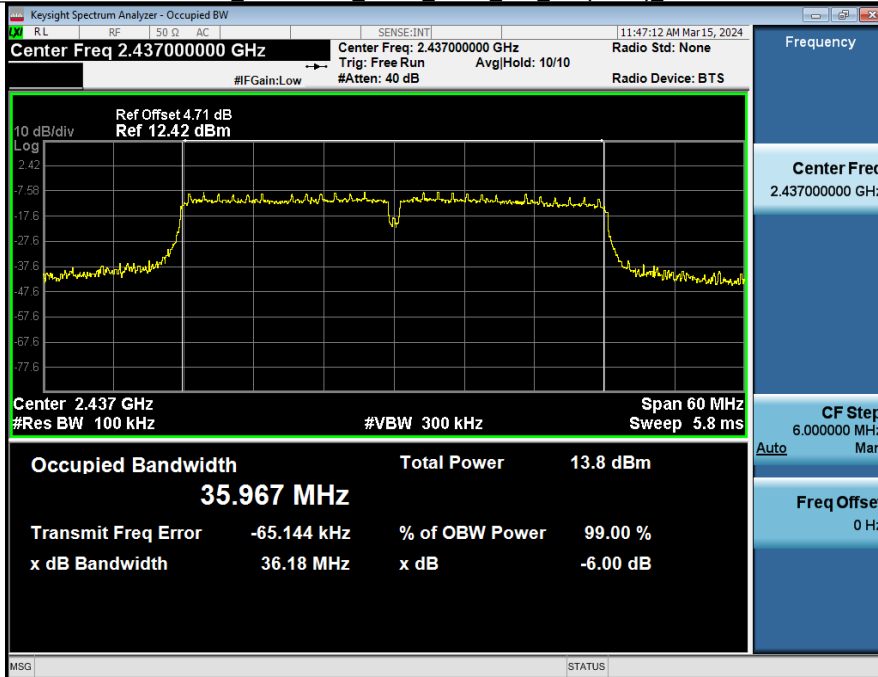
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



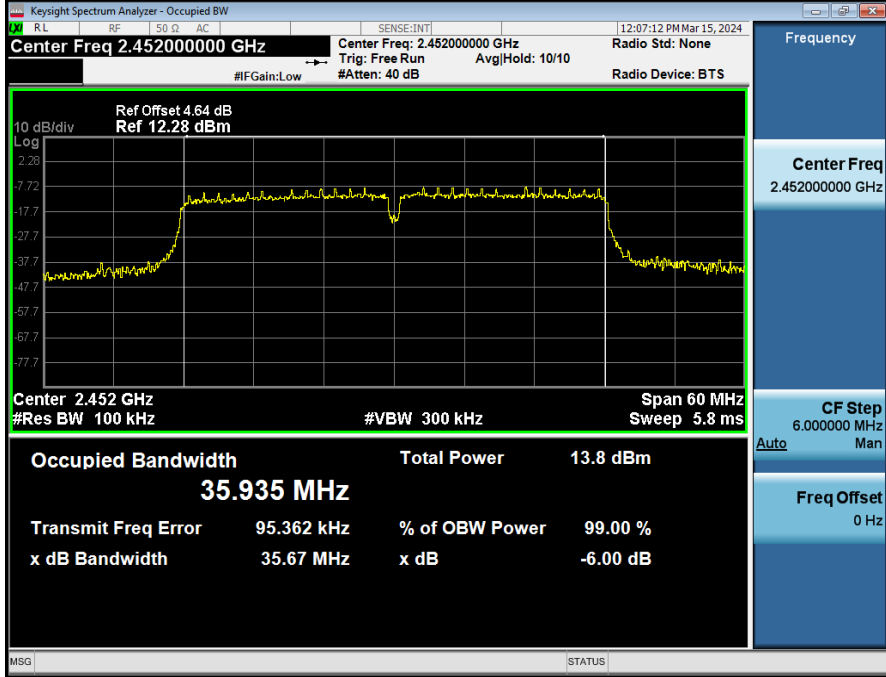
-6dB Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

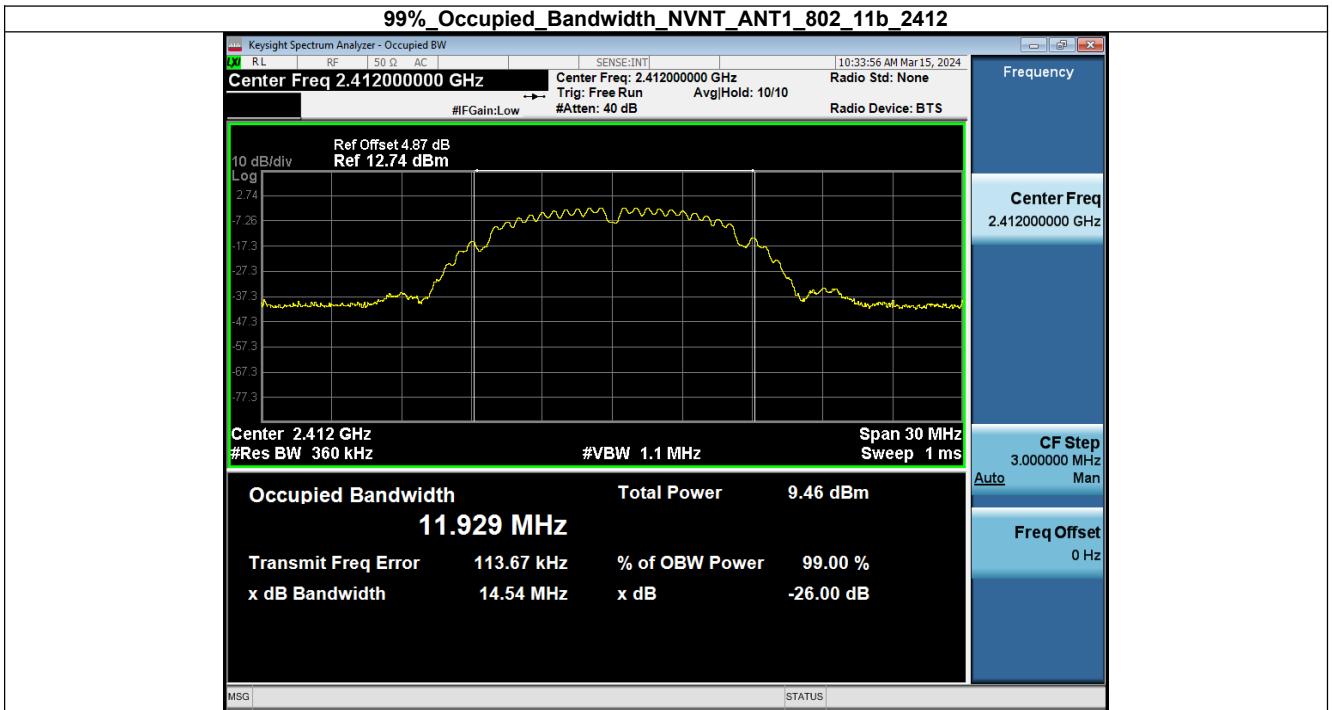


-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

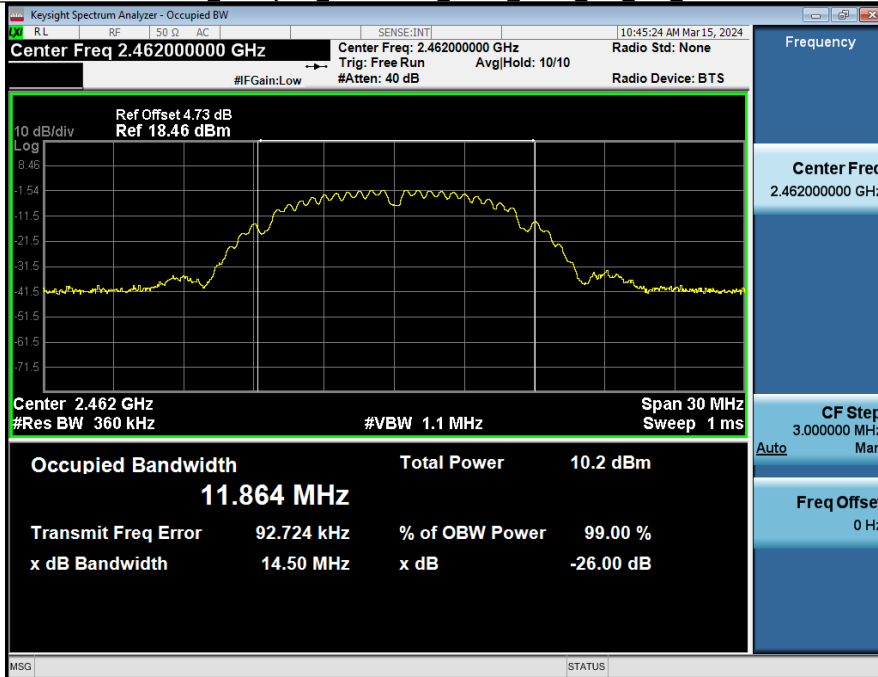
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	11.929
NVNT	ANT1	802.11b	2437.00	11.903
NVNT	ANT1	802.11b	2462.00	11.864
NVNT	ANT1	802.11g	2412.00	17.106
NVNT	ANT1	802.11g	2437.00	17.151
NVNT	ANT1	802.11g	2462.00	17.103
NVNT	ANT1	802.11n(HT20)	2412.00	17.867
NVNT	ANT1	802.11n(HT20)	2437.00	17.851
NVNT	ANT1	802.11n(HT20)	2462.00	17.863
NVNT	ANT1	802.11n(HT40)	2422.00	36.548
NVNT	ANT1	802.11n(HT40)	2437.00	36.444
NVNT	ANT1	802.11n(HT40)	2452.00	36.540



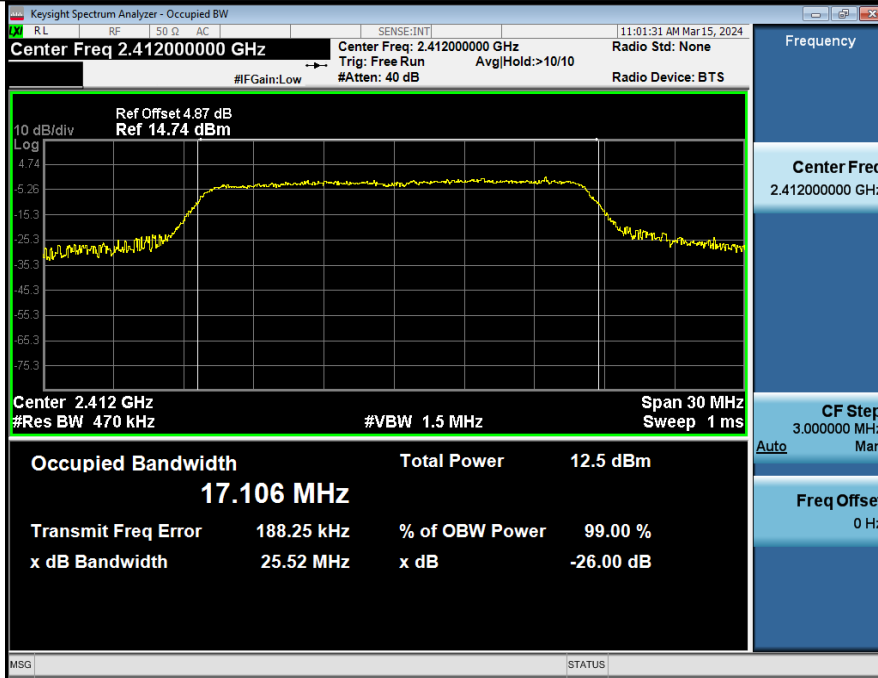
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



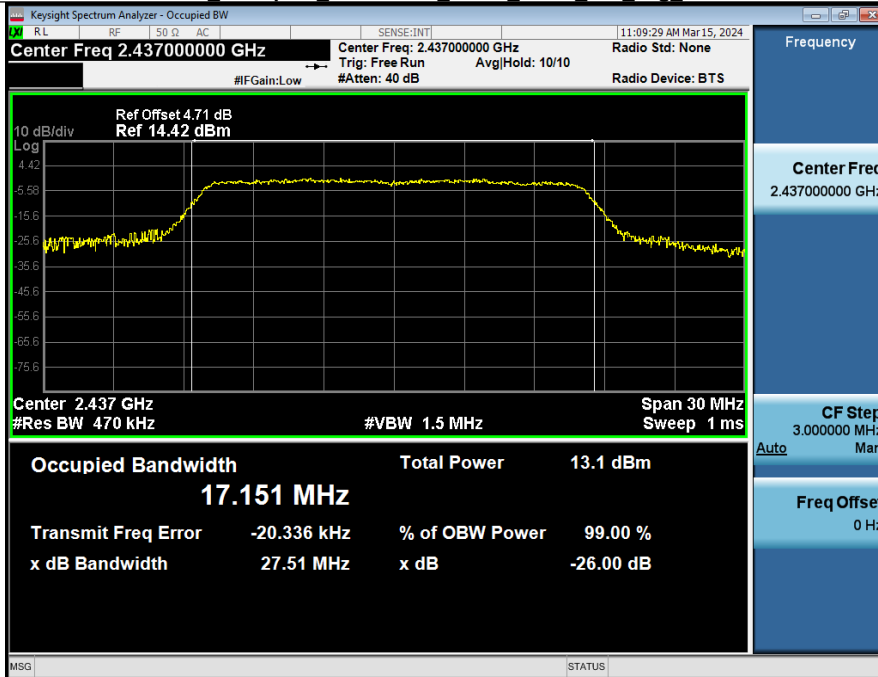
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



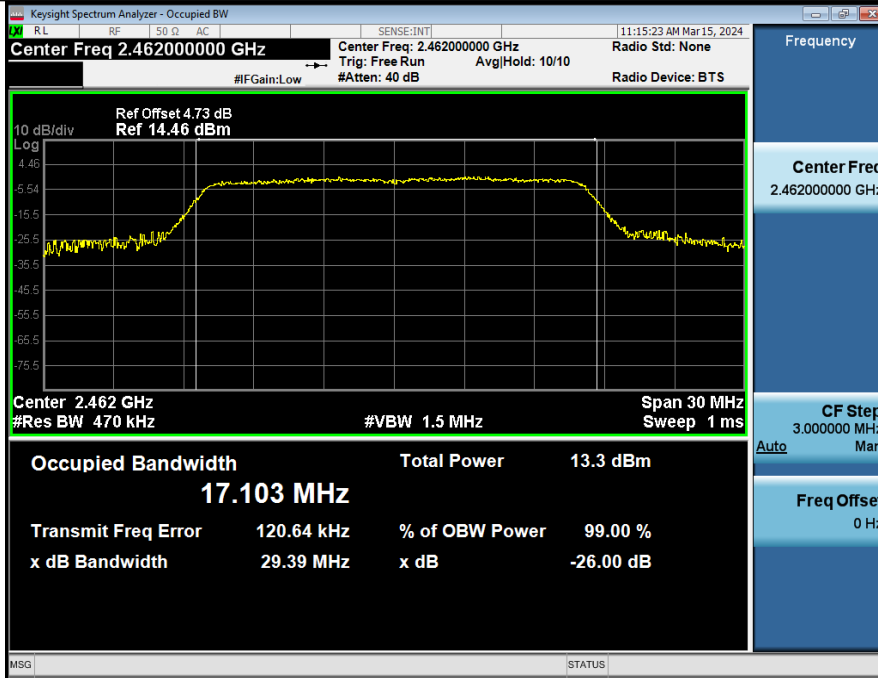
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



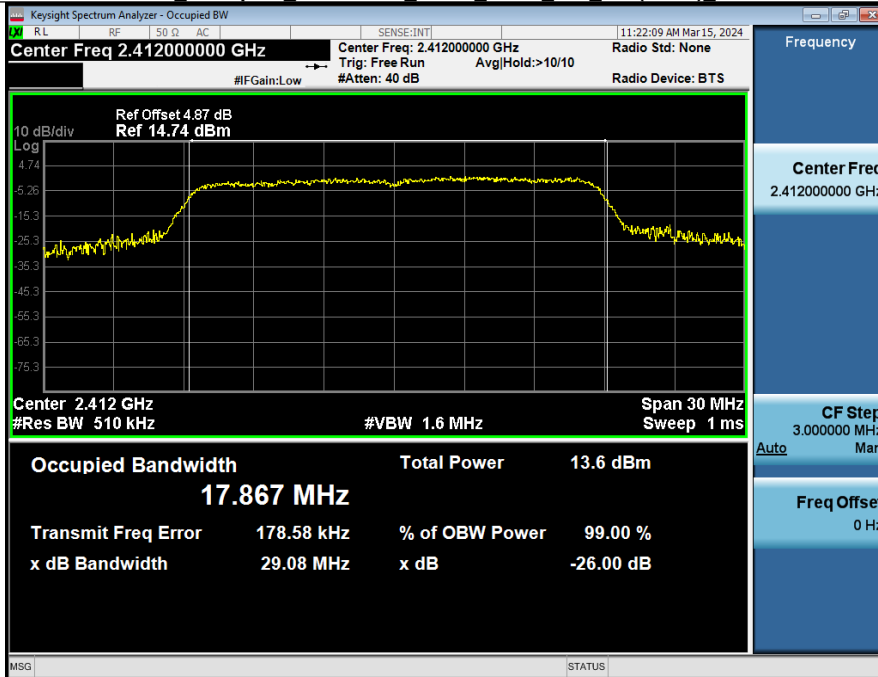
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



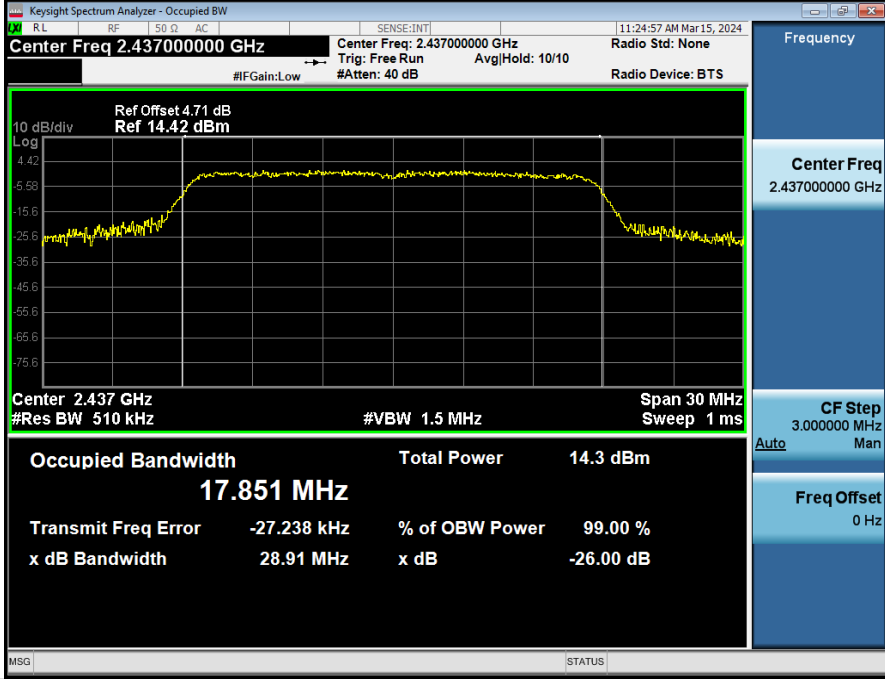
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462



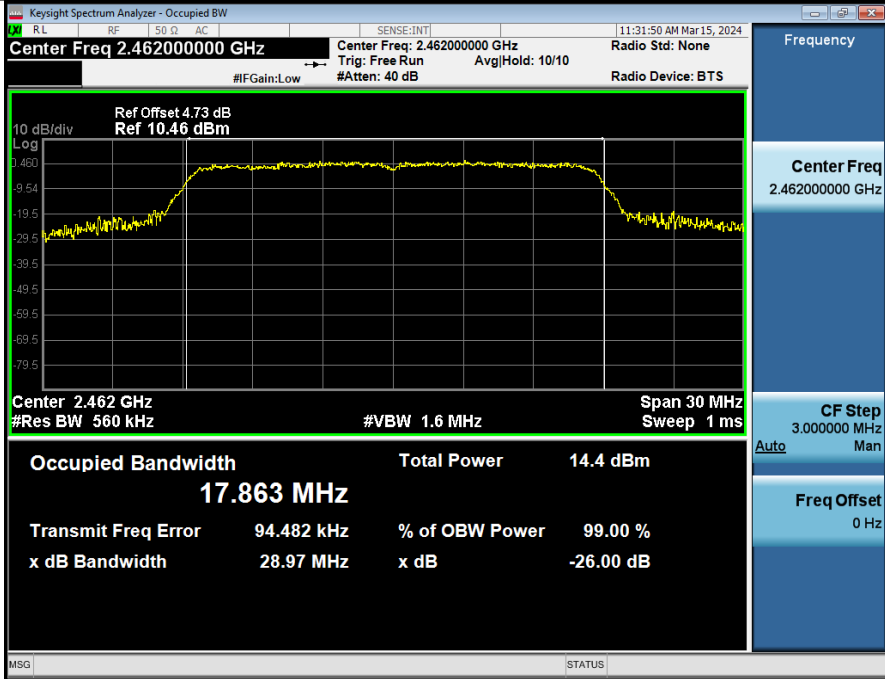
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



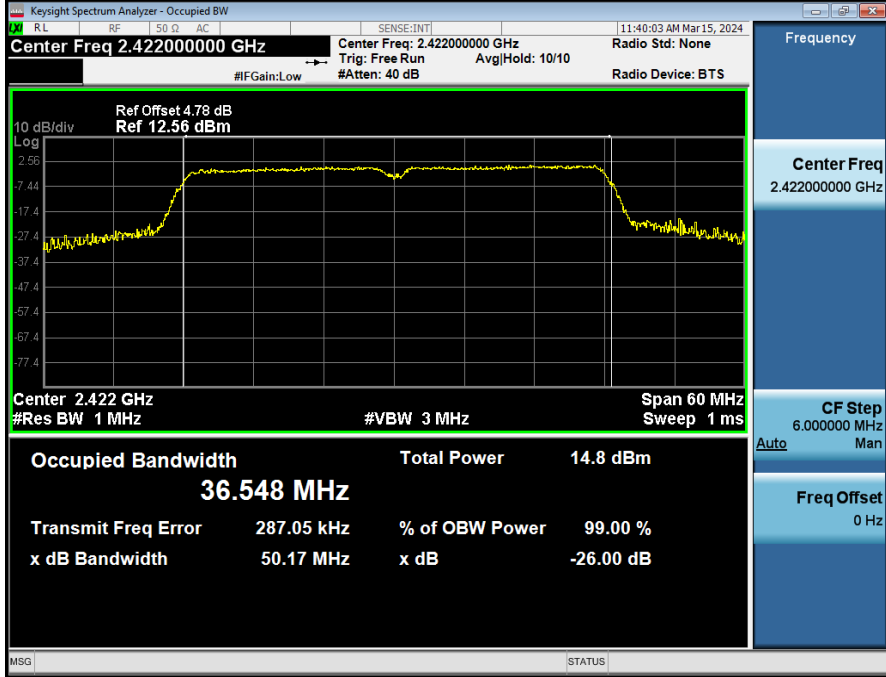
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



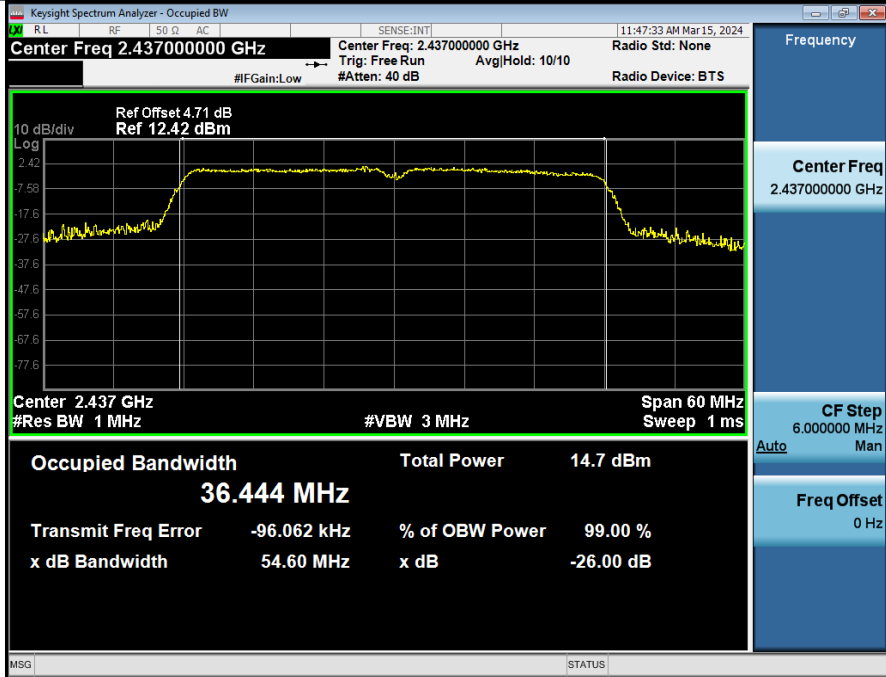
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462



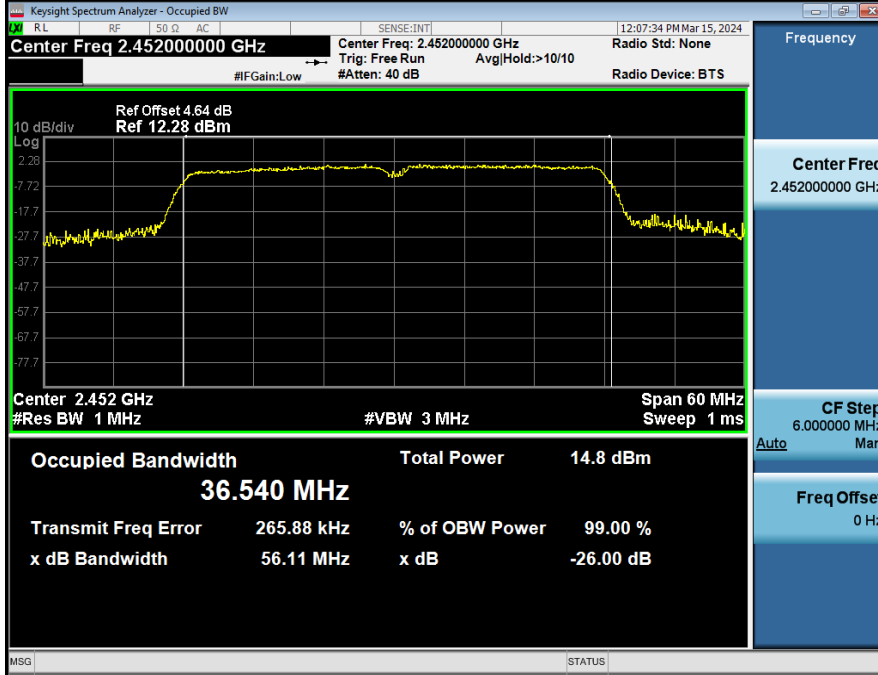
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437

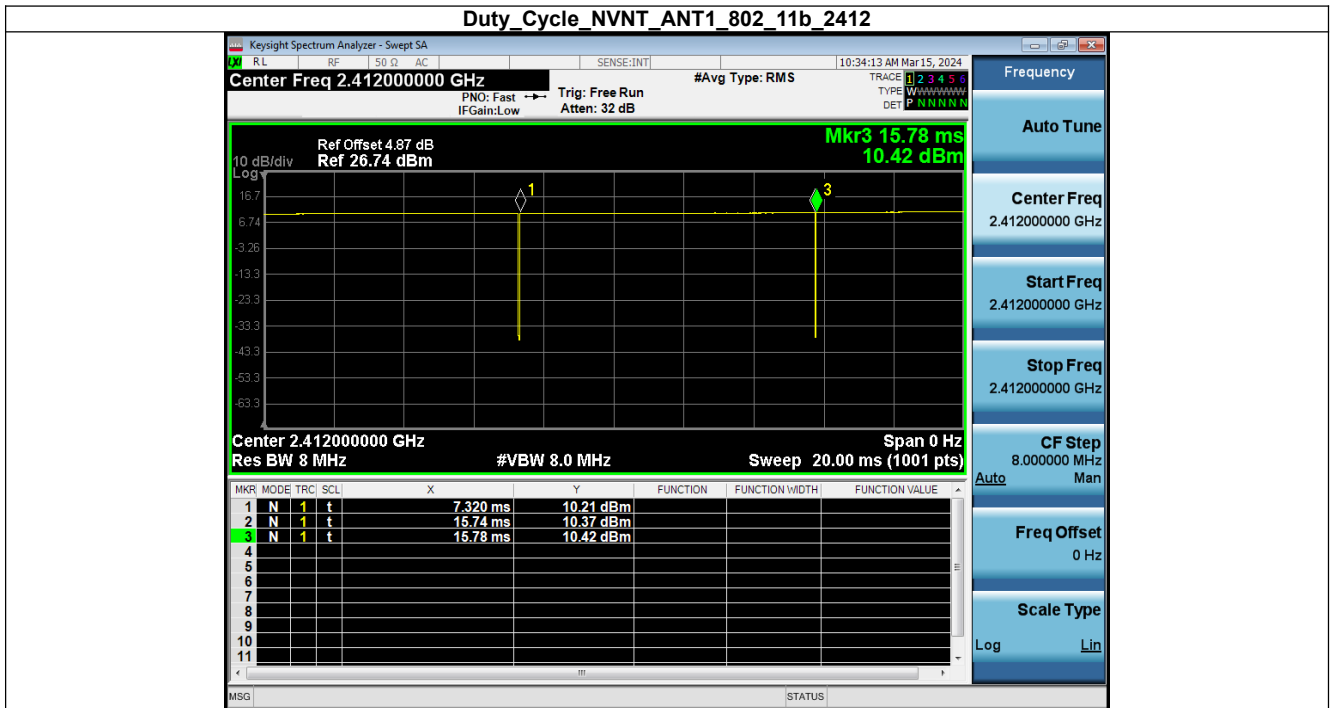


99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

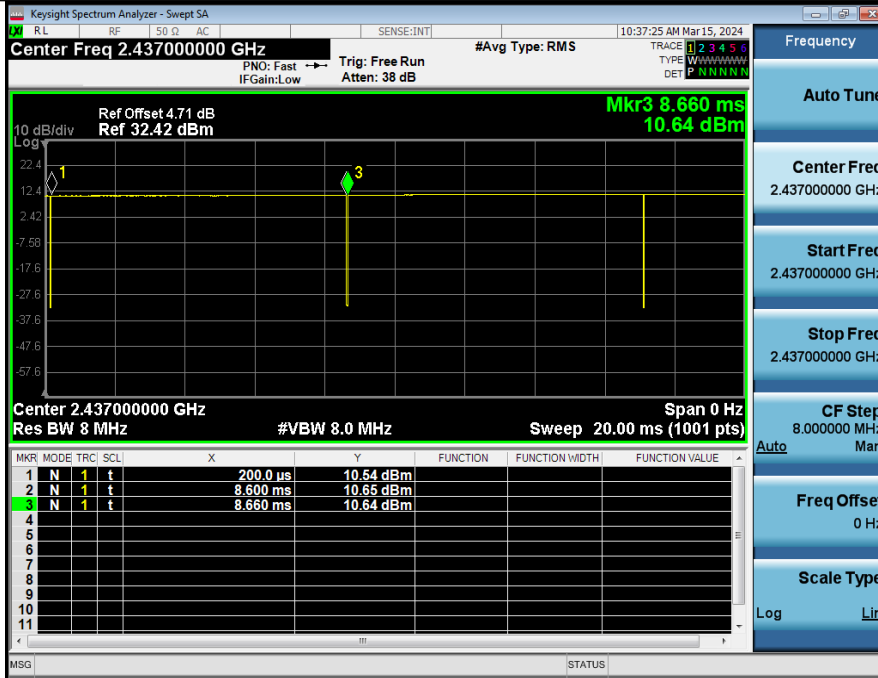


3. Duty Cycle

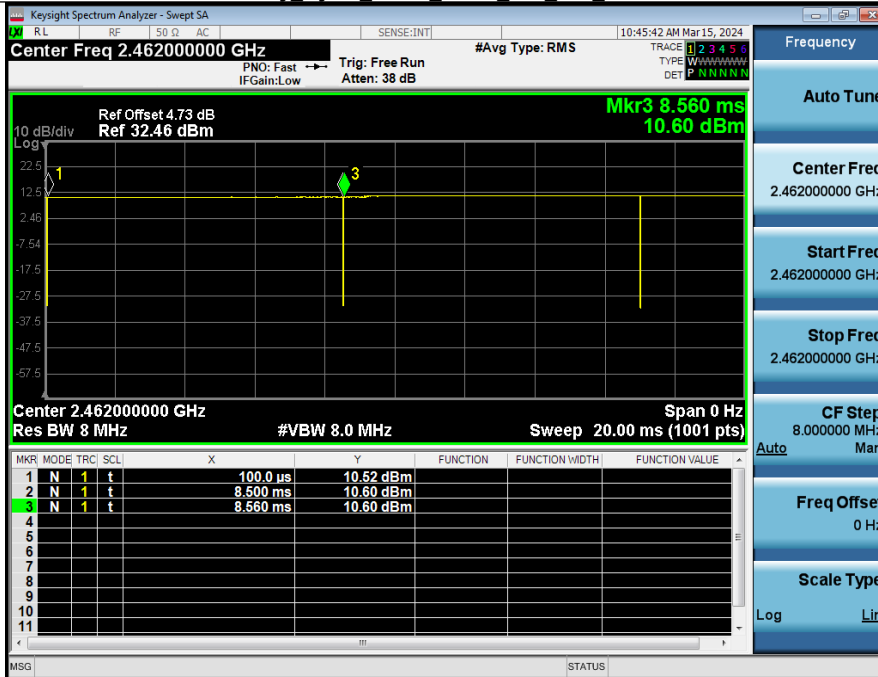
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.22	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	95.24	0.21
NVNT	ANT1	802.11n(HT20)	2437.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14
NVNT	ANT1	802.11n(HT40)	2422.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	96.87	0.14



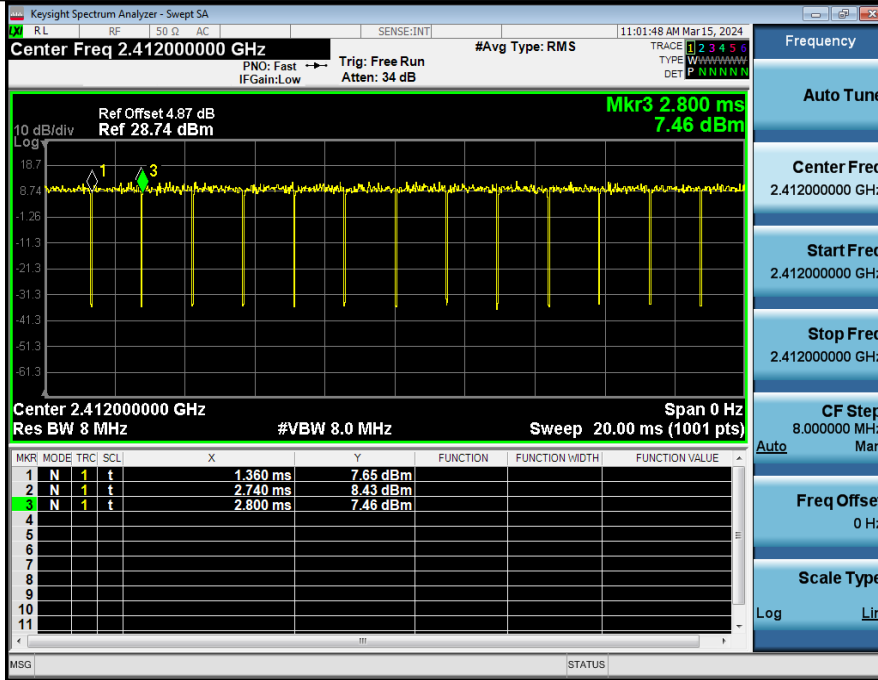
Duty Cycle NVNT ANT1_802_11b_2437



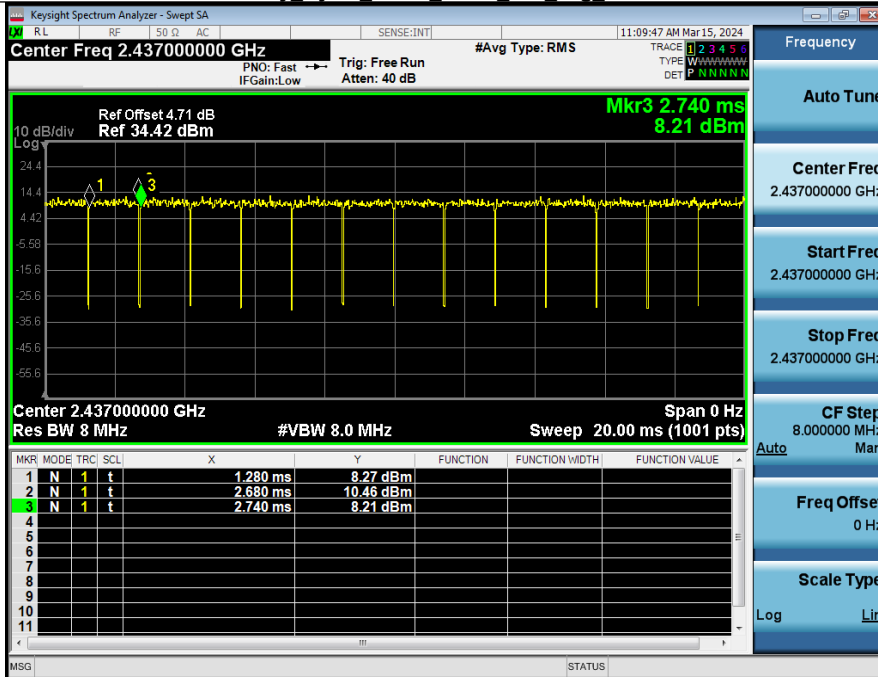
Duty Cycle NVNT ANT1_802_11b_2462



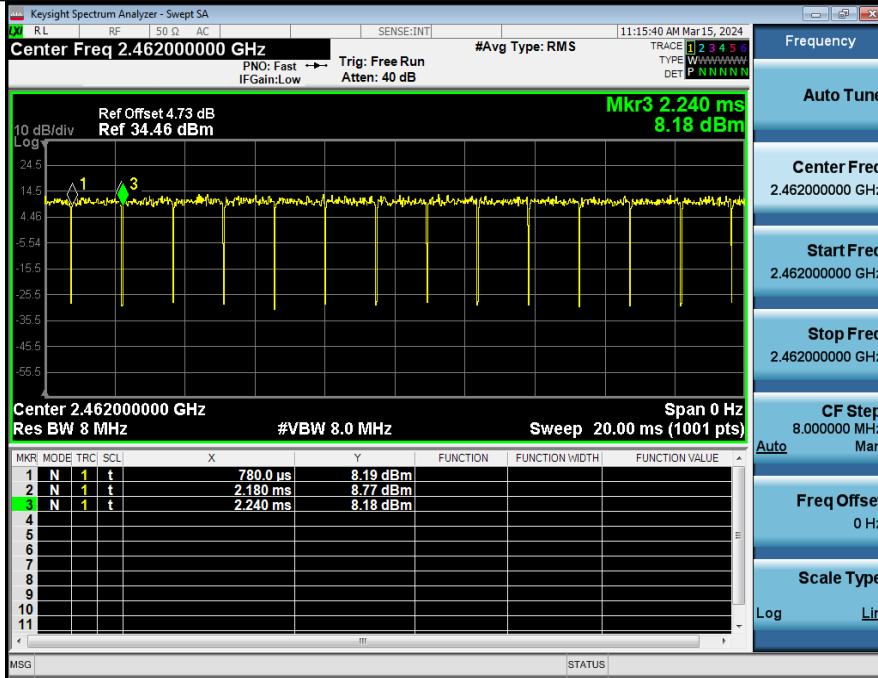
Duty Cycle NVNT ANT1_802_11g_2412



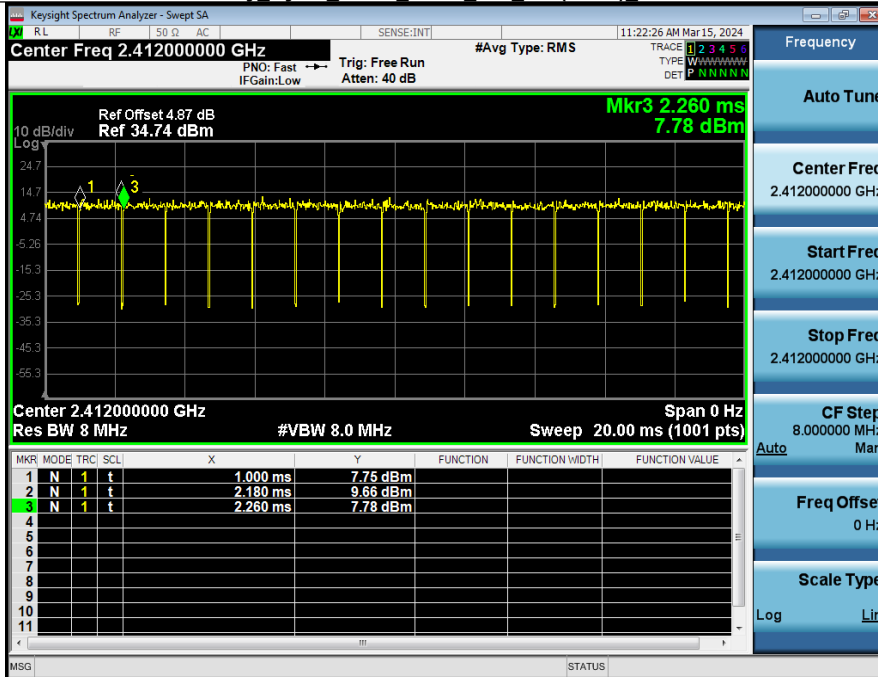
Duty Cycle NVNT ANT1_802_11g_2437



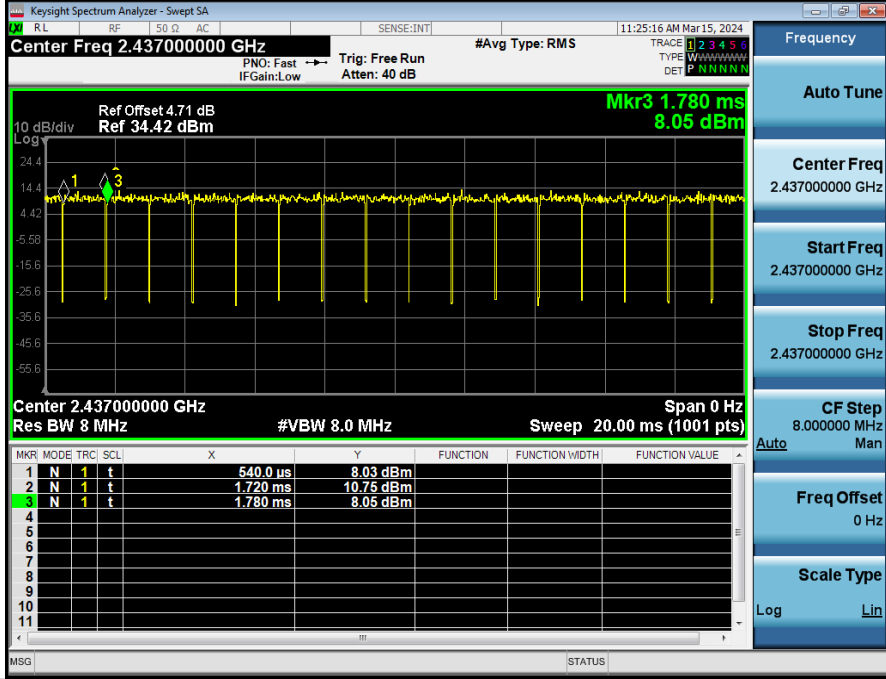
Duty Cycle NVNT_ANT1_802_11g_2462



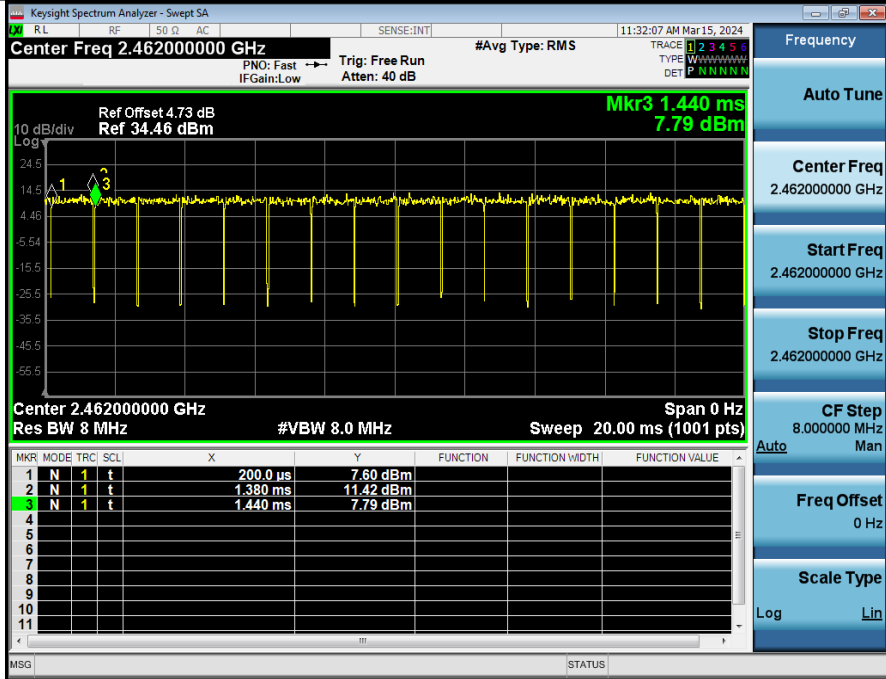
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



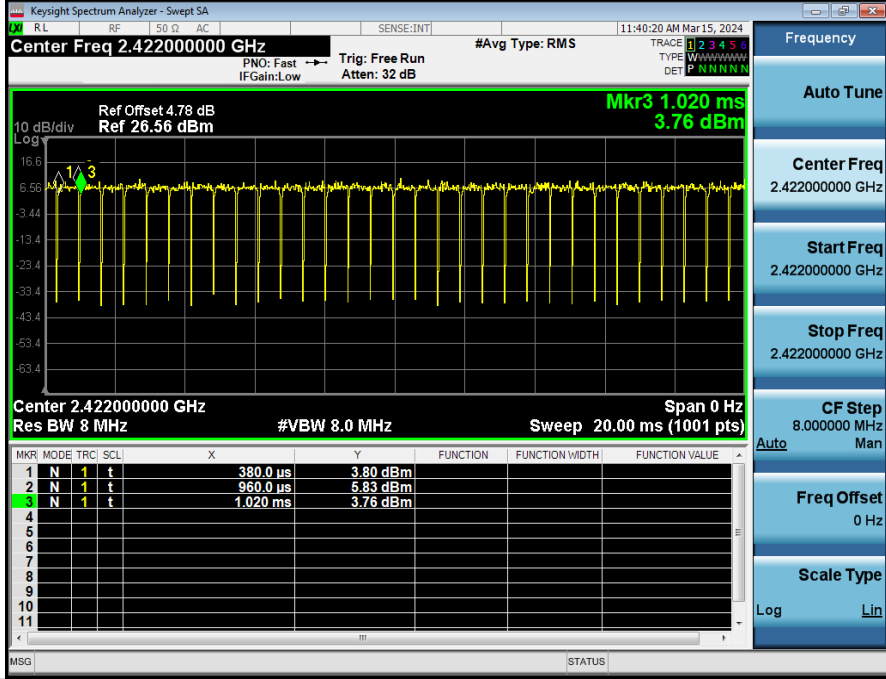
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



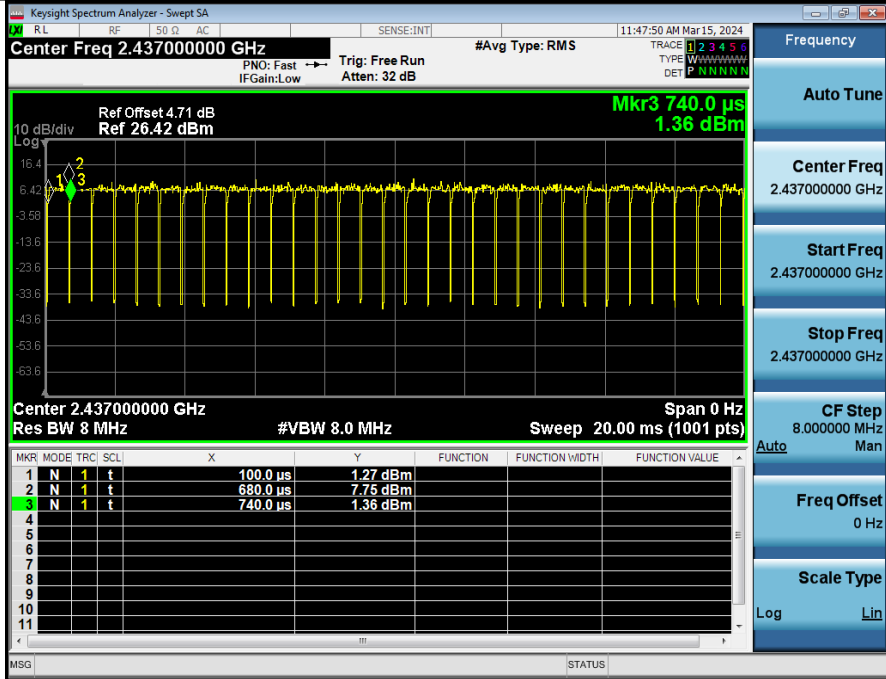
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



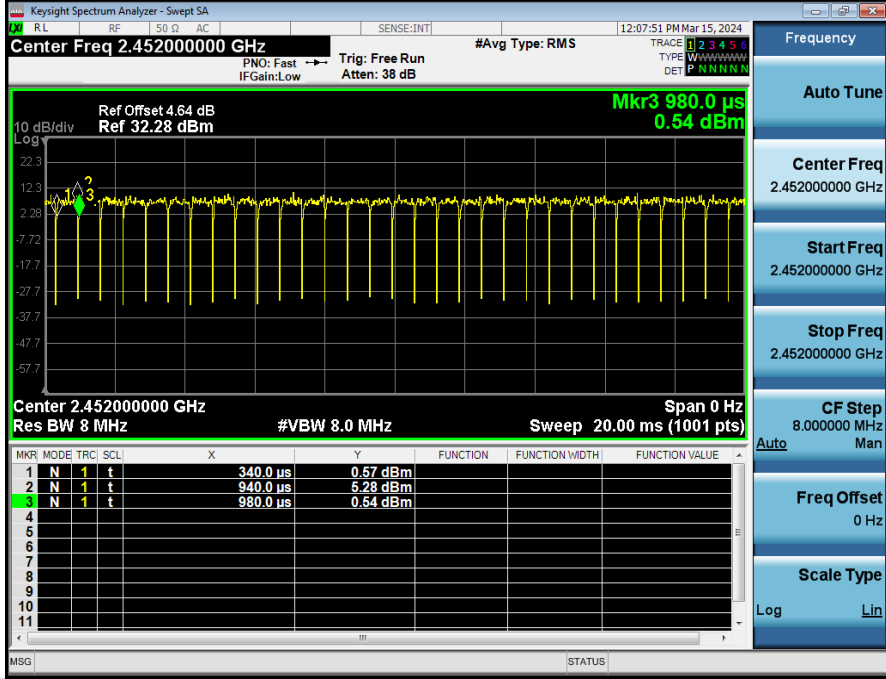
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437

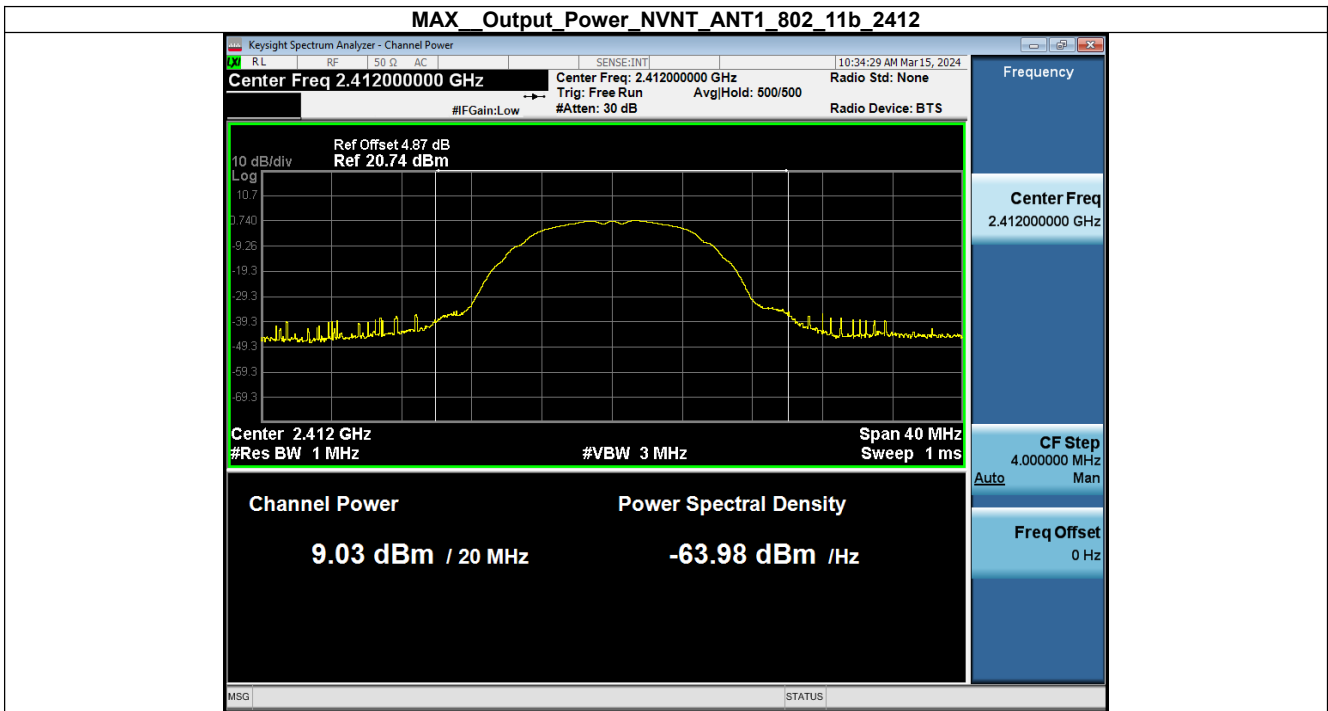


Duty Cycle NVNT_ANT1_802_11n(HT40)_2452

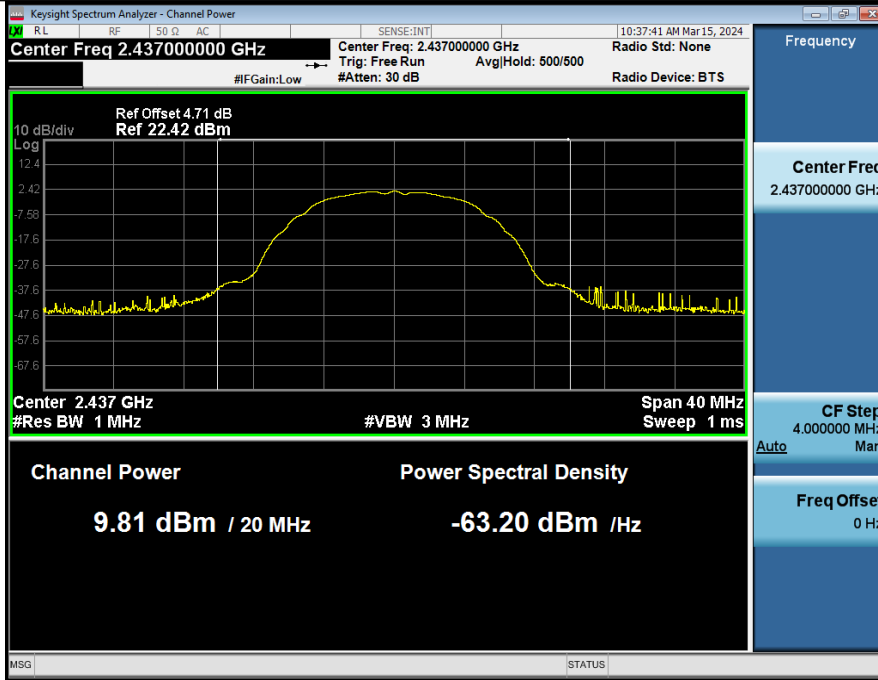


4. MAX. Output Power

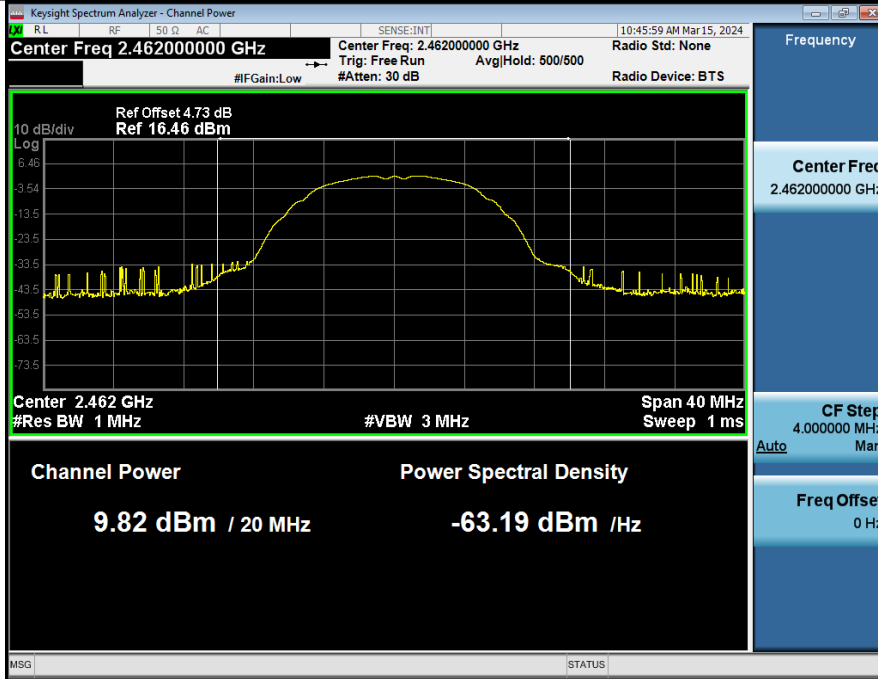
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	9.03	9.03	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	9.81	9.81	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	9.82	9.82	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	13.13	13.13	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	13.75	13.75	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	13.91	13.91	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	13.67	13.67	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	14.37	14.37	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	14.47	14.47	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	14.44	14.44	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	14.40	14.40	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	14.40	14.40	30	Pass



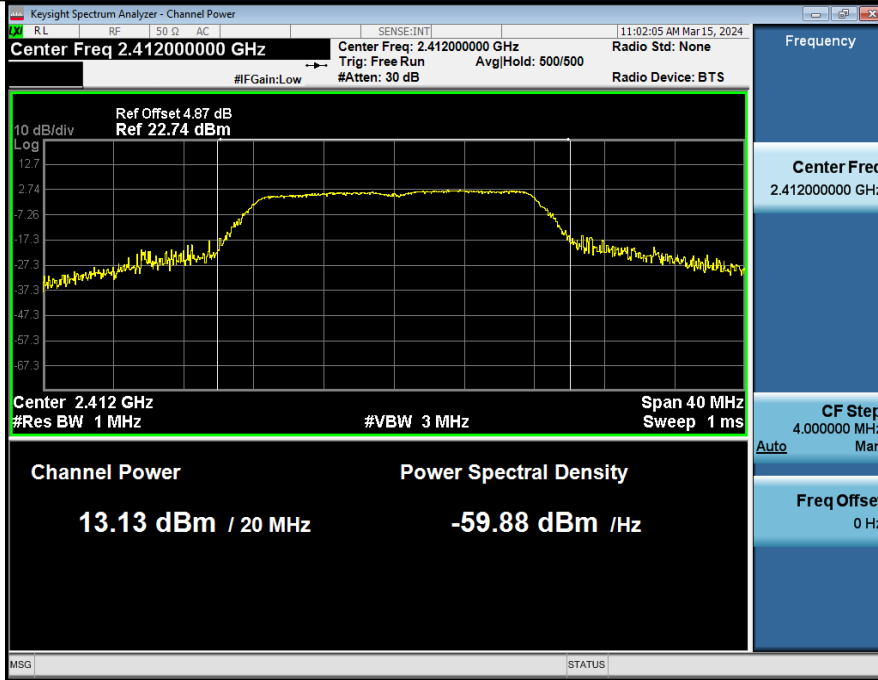
MAX Output Power NVNT_ANT1_802_11b_2437



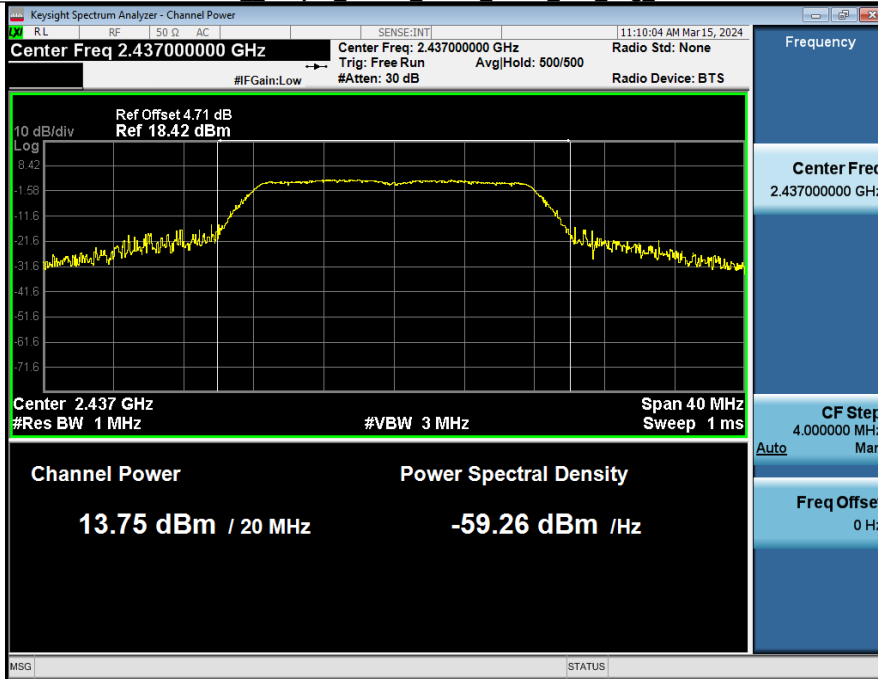
MAX Output Power NVNT_ANT1_802_11b_2462



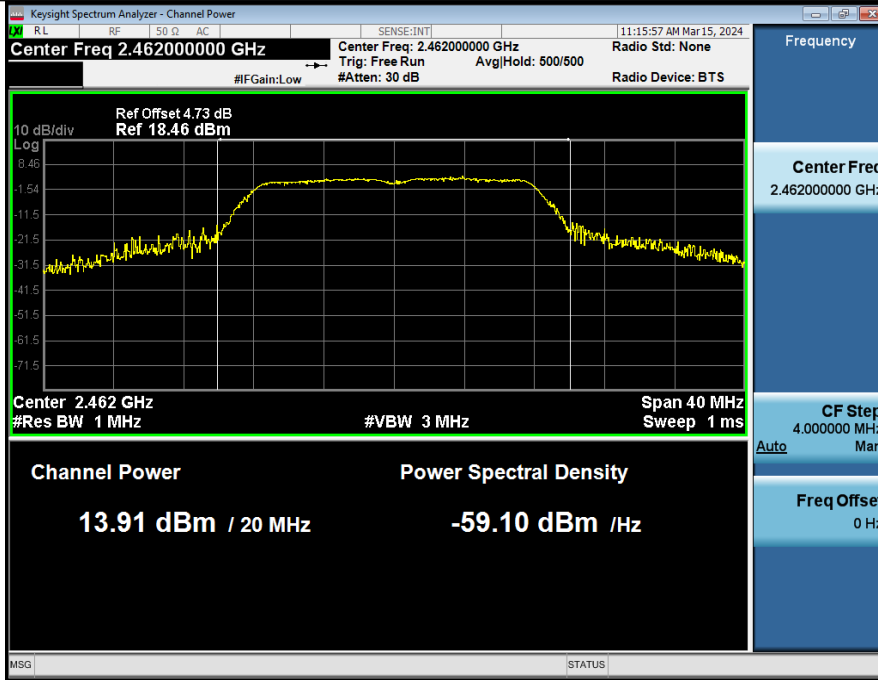
MAX Output Power NVNT_ANT1_802_11g_2412



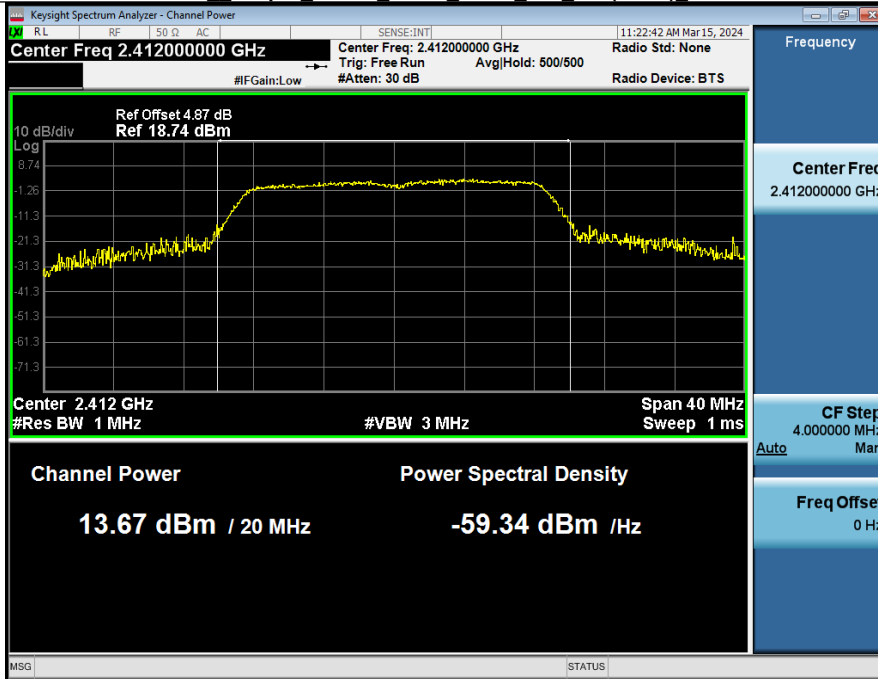
MAX Output Power NVNT_ANT1_802_11g_2437



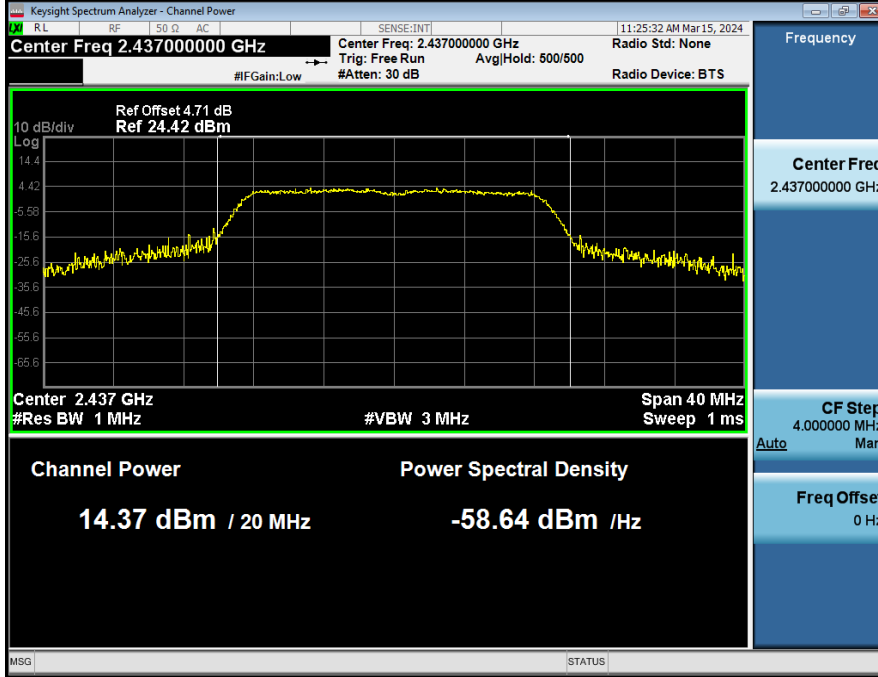
MAX Output Power NVNT_ANT1_802_11g_2462



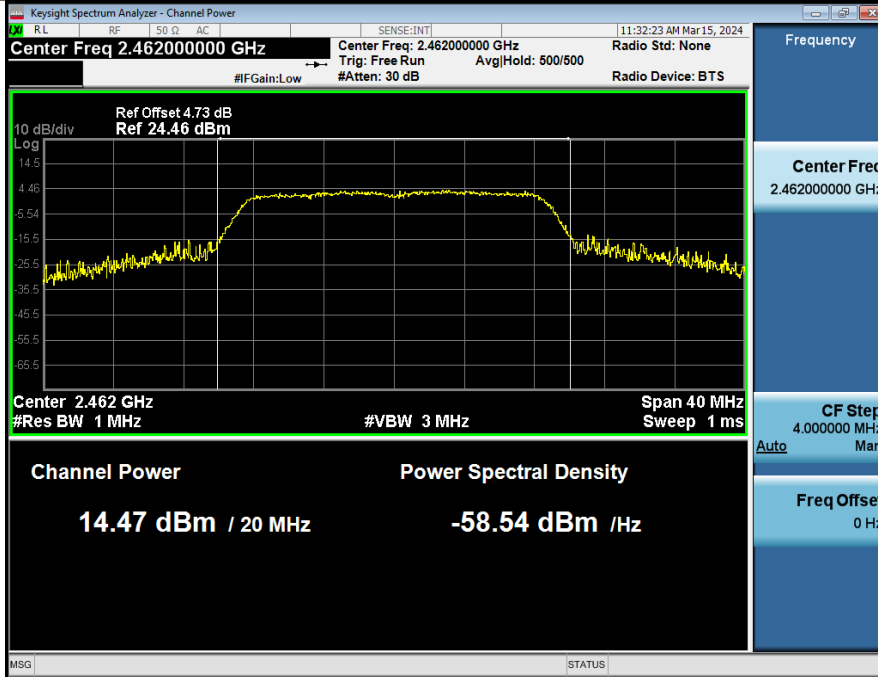
MAX Output Power NVNT_ANT1_802_11n(HT20)_2412



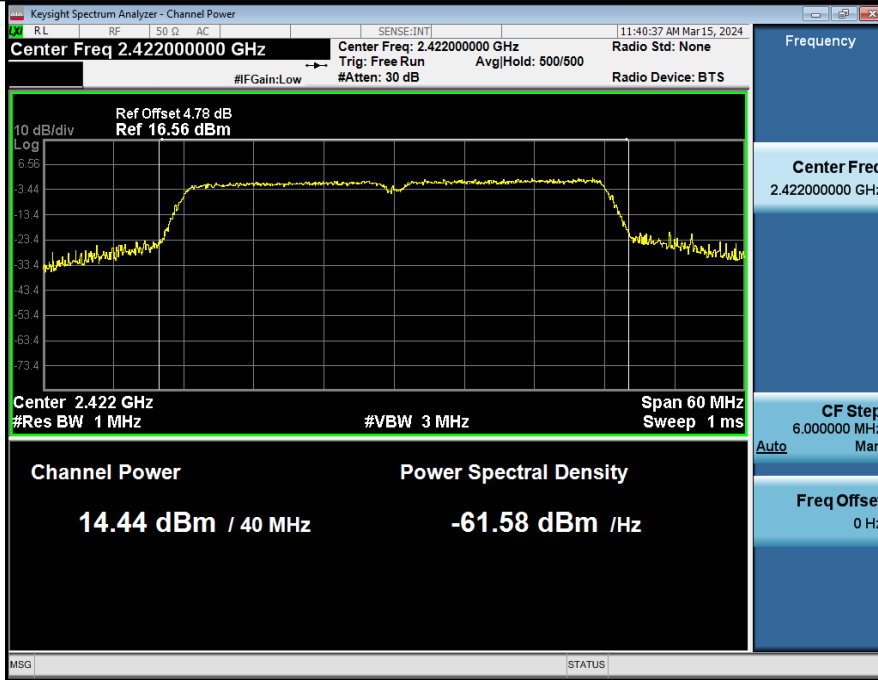
MAX Output Power NVNT ANT1_802_11n(HT20)_2437



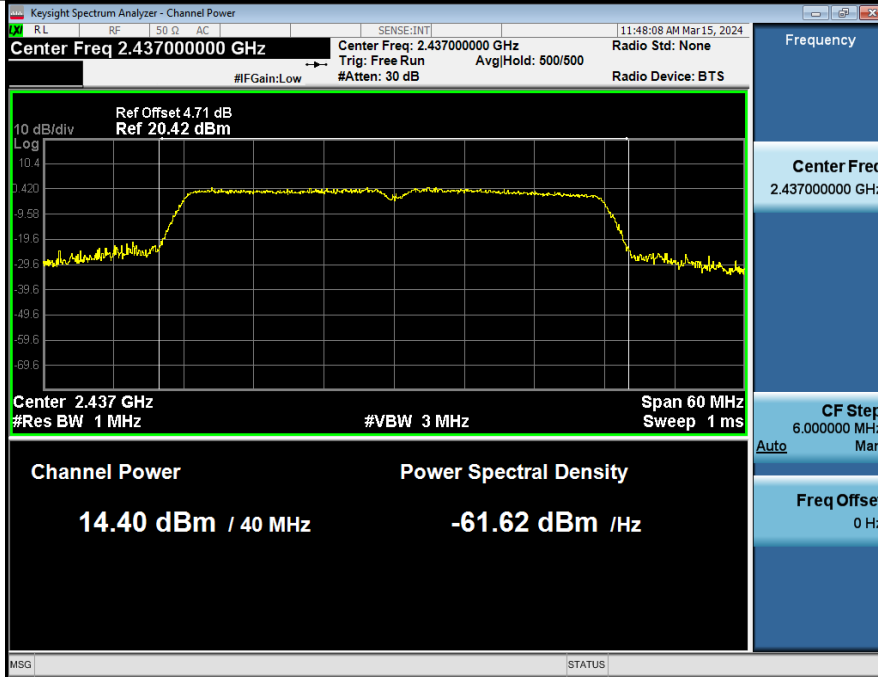
MAX Output Power NVNT ANT1_802_11n(HT20)_2462



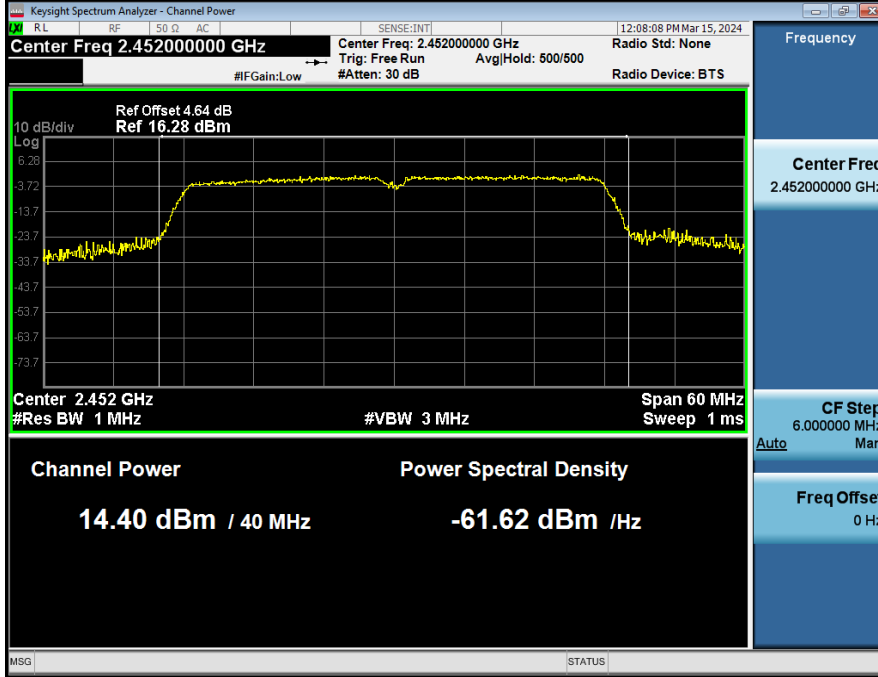
MAX Output Power NVNT_ANT1_802_11n(HT40)_2422



MAX Output Power NVNT_ANT1_802_11n(HT40)_2437

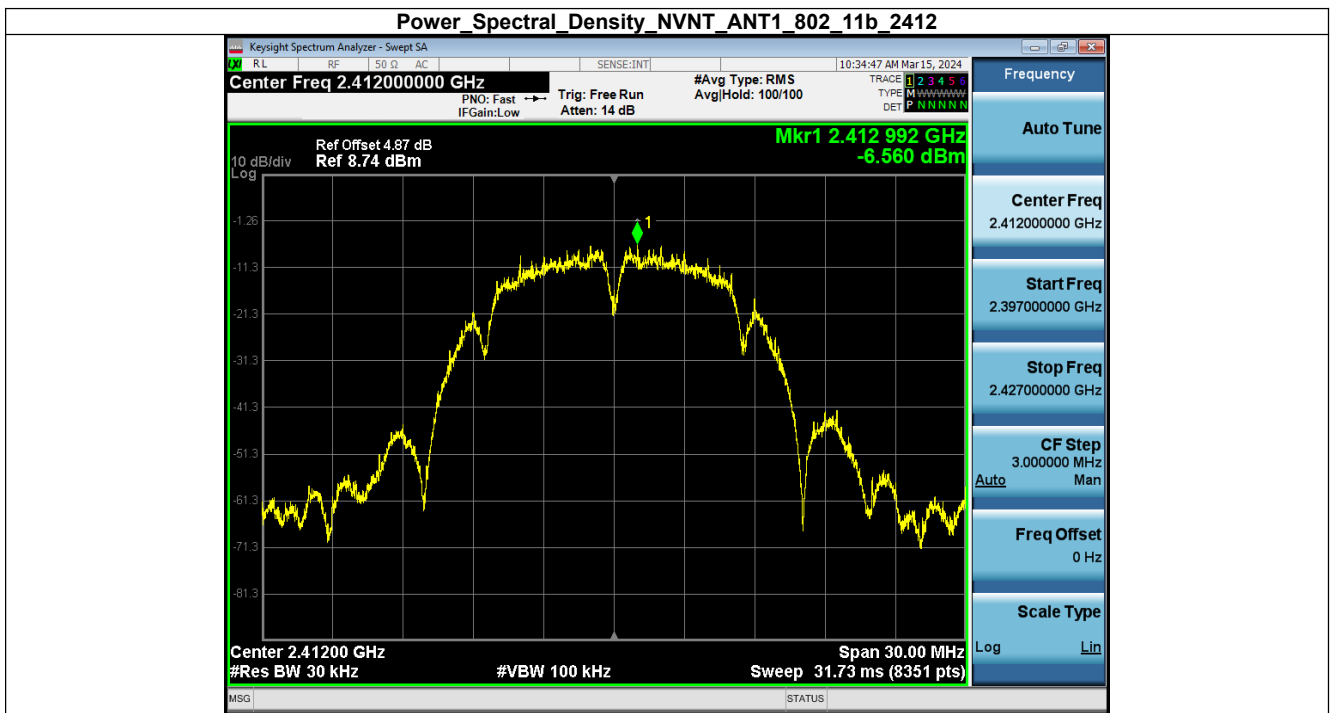


MAX Output Power_NVNT_ANT1_802_11n(HT40)_2452



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	-6.56	-10.00	-16.56	8	Pass
NVNT	ANT1	802.11b	2437.00	-5.57	-10.00	-15.57	8	Pass
NVNT	ANT1	802.11b	2462.00	-5.41	-10.00	-15.41	8	Pass
NVNT	ANT1	802.11g	2412.00	-10.02	-10.00	-20.02	8	Pass
NVNT	ANT1	802.11g	2437.00	-9.36	-10.00	-19.36	8	Pass
NVNT	ANT1	802.11g	2462.00	-8.75	-10.00	-18.75	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-9.94	-10.00	-19.94	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-10.02	-10.00	-20.02	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-9.69	-10.00	-19.69	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-12.61	-10.00	-22.61	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-12.76	-10.00	-22.76	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-12.72	-10.00	-22.72	8	Pass



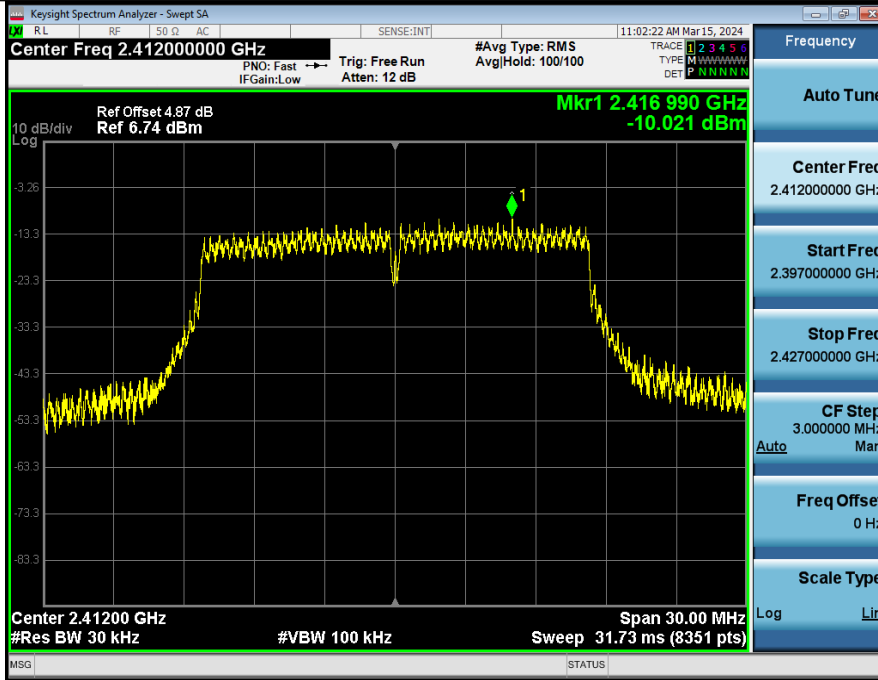
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



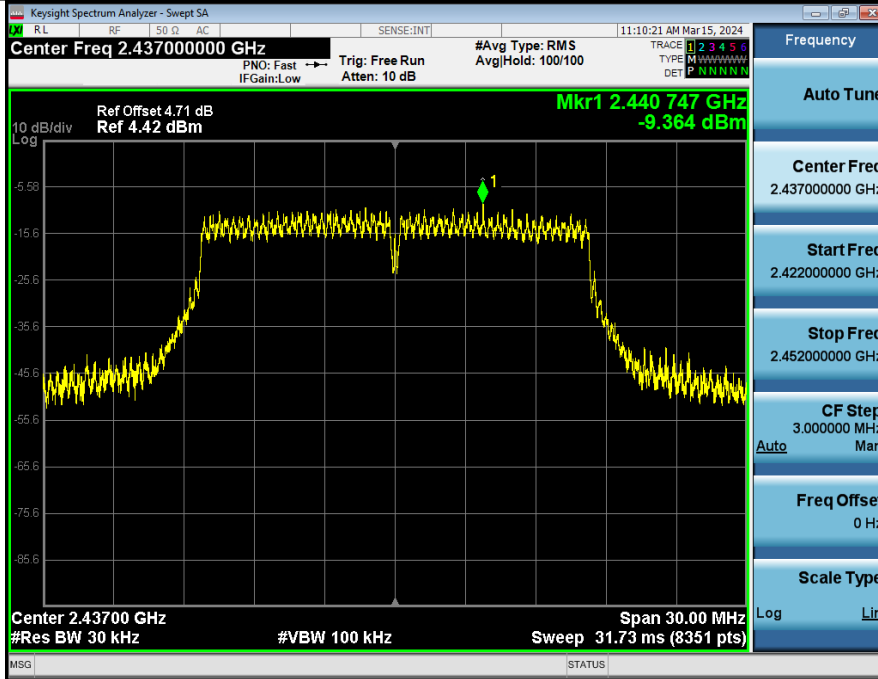
Power Spectral Density NVNT ANT1 802 11b 2462



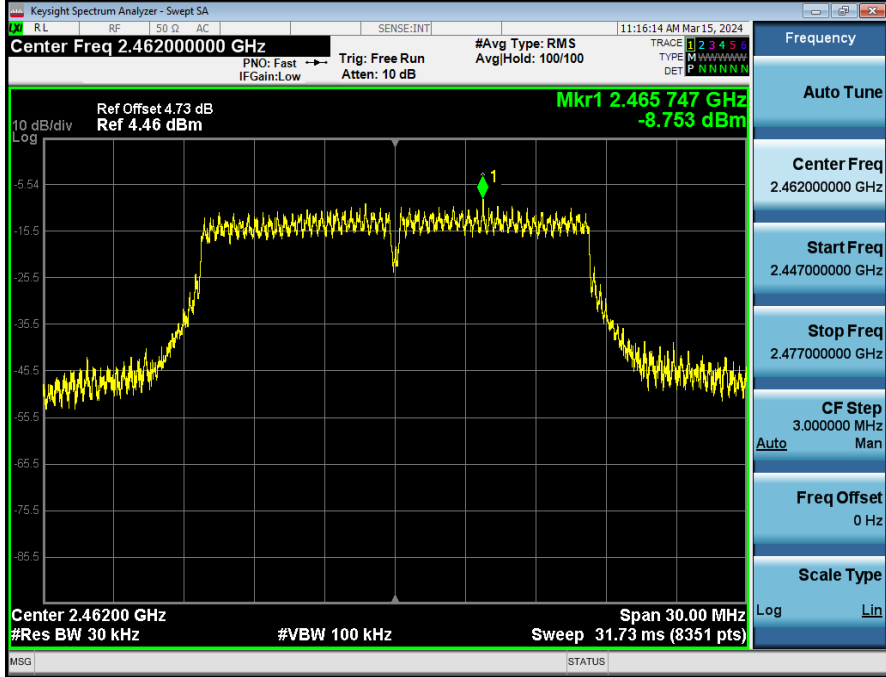
Power Spectral Density NVNT_ANT1_802_11g_2412



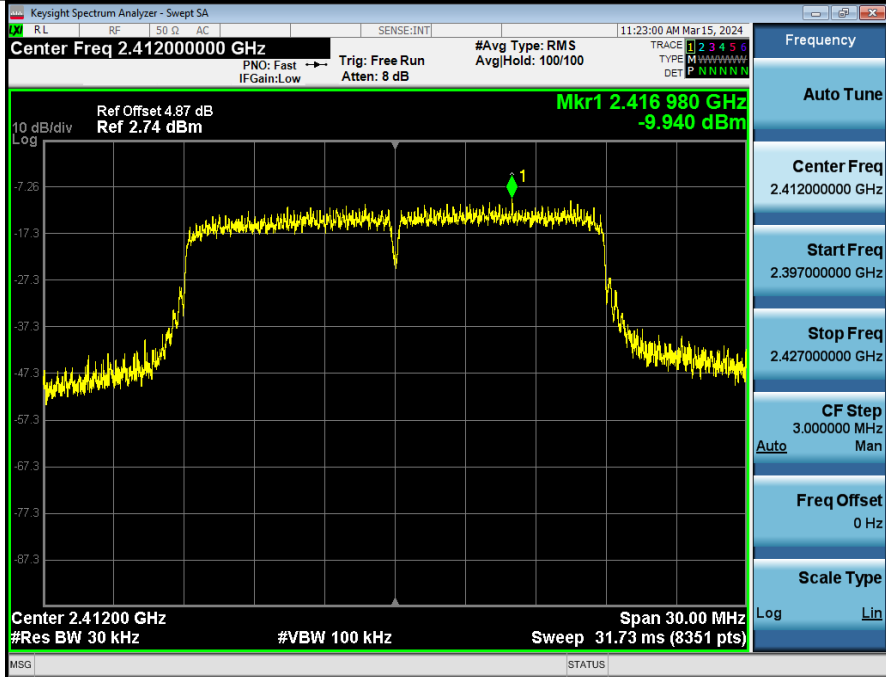
Power Spectral Density NVNT_ANT1_802_11g_2437



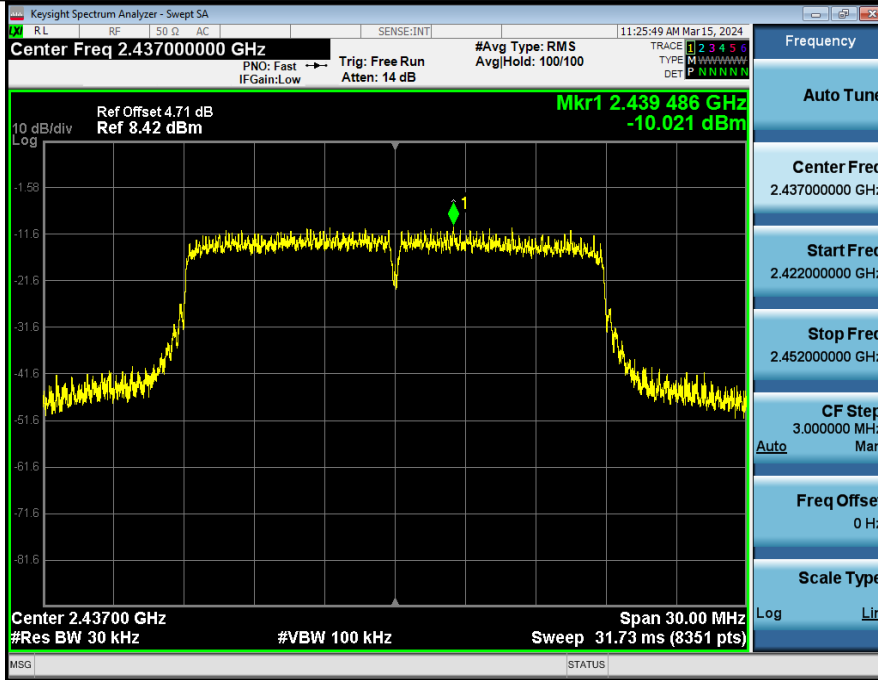
Power Spectral Density NVNT_ANT1_802_11g_2462



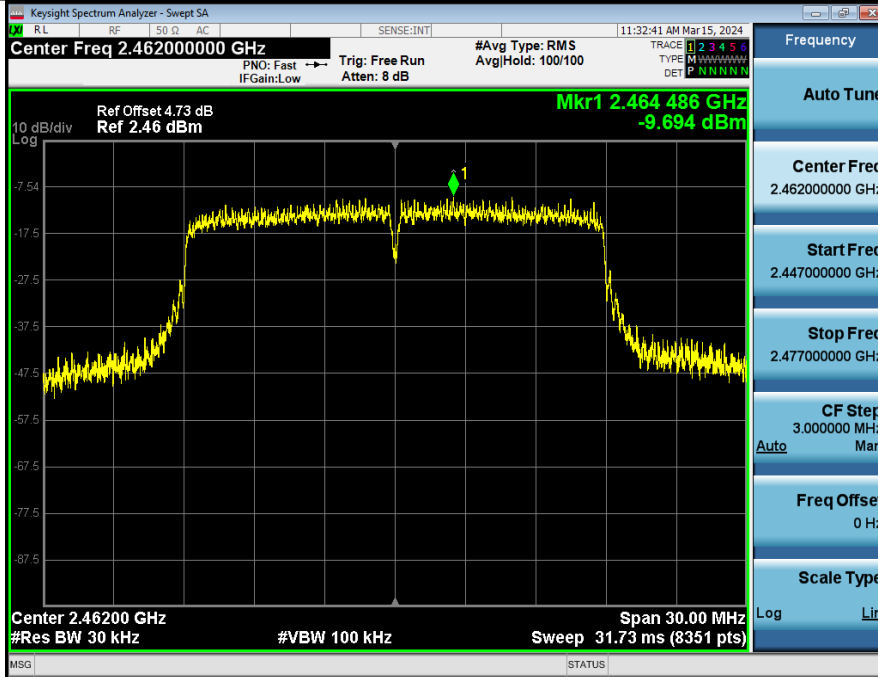
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



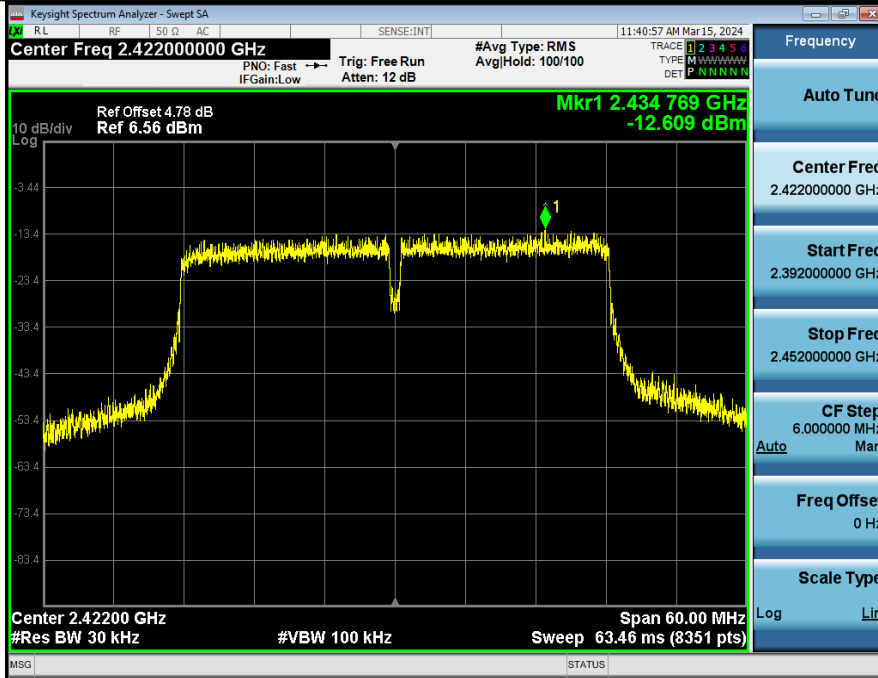
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437



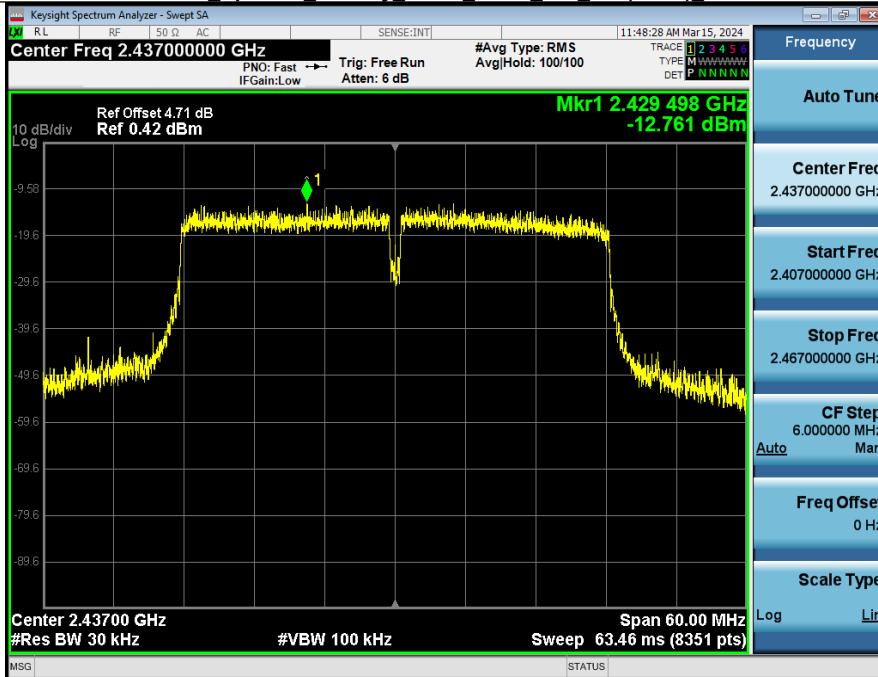
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2462



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437



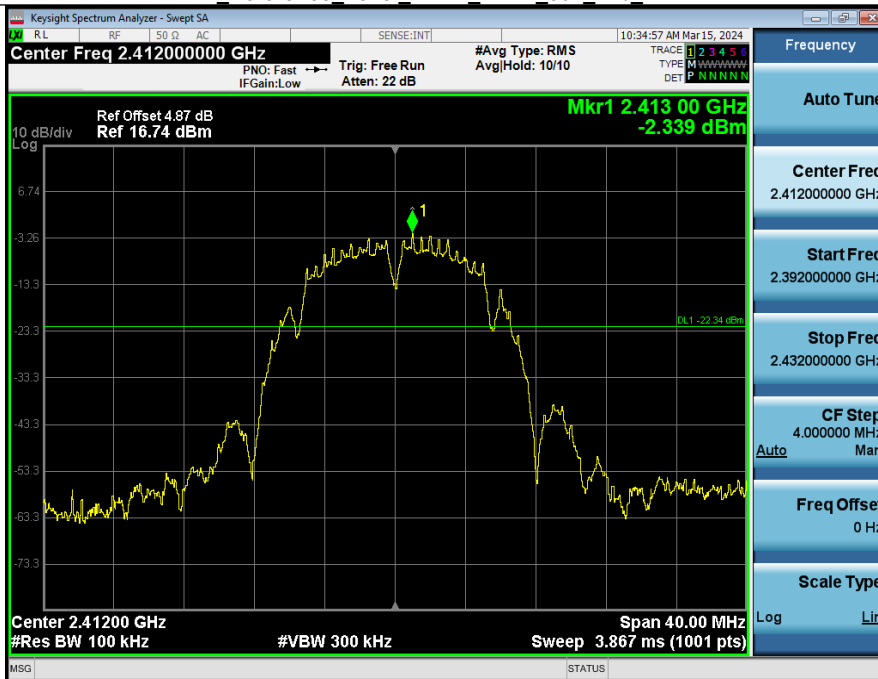
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2452



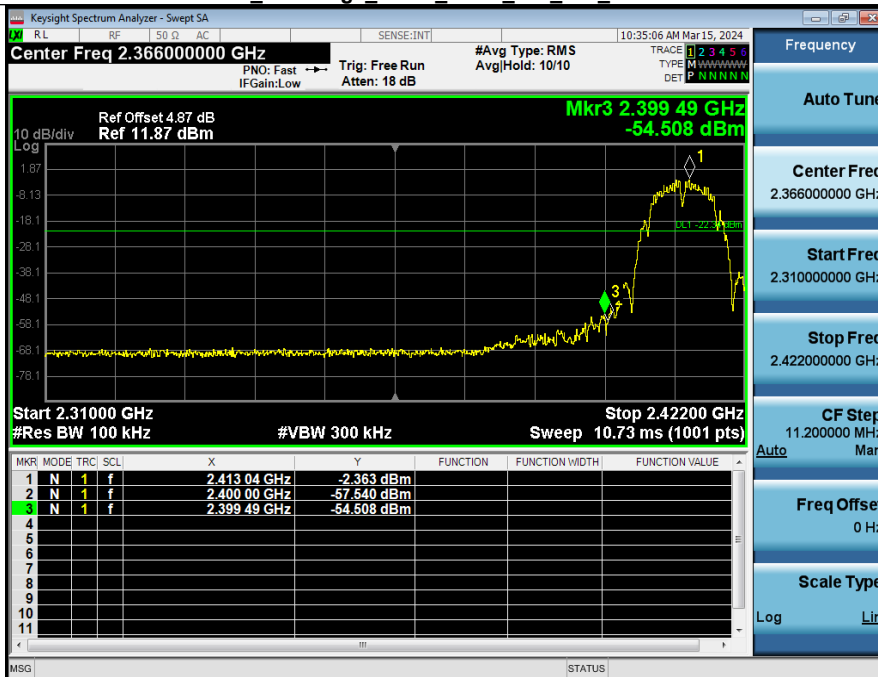
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.488	-54.508	-22.339	Pass
NVNT	ANT1	802.11b	2462.00	2484.496	-57.215	-21.774	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-37.489	-25.594	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-47.217	-25.392	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-36.339	-25.607	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.496	-45.704	-24.925	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-40.011	-27.866	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.816	-41.318	-27.944	Pass

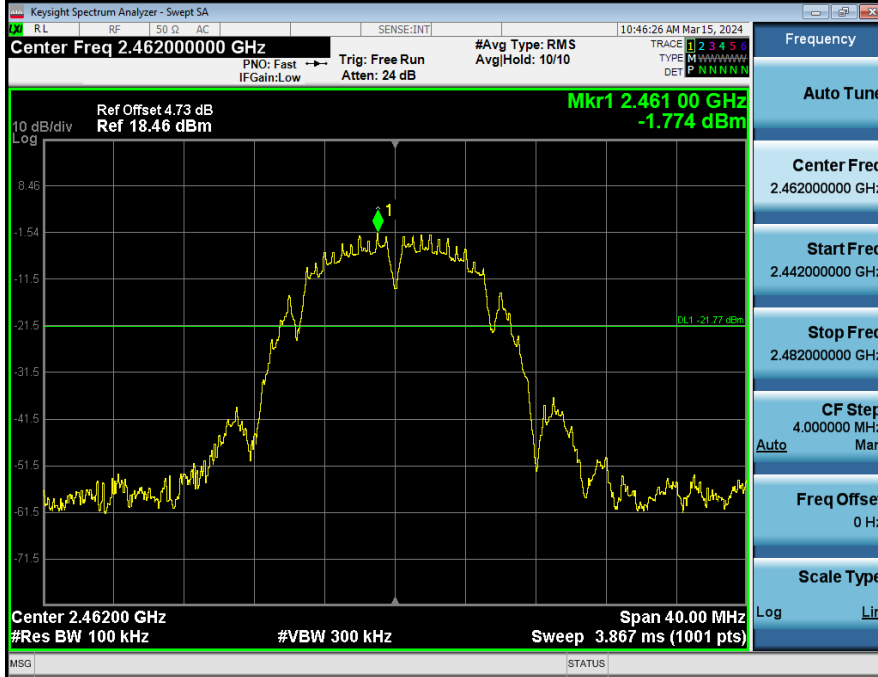
1 Reference Level NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



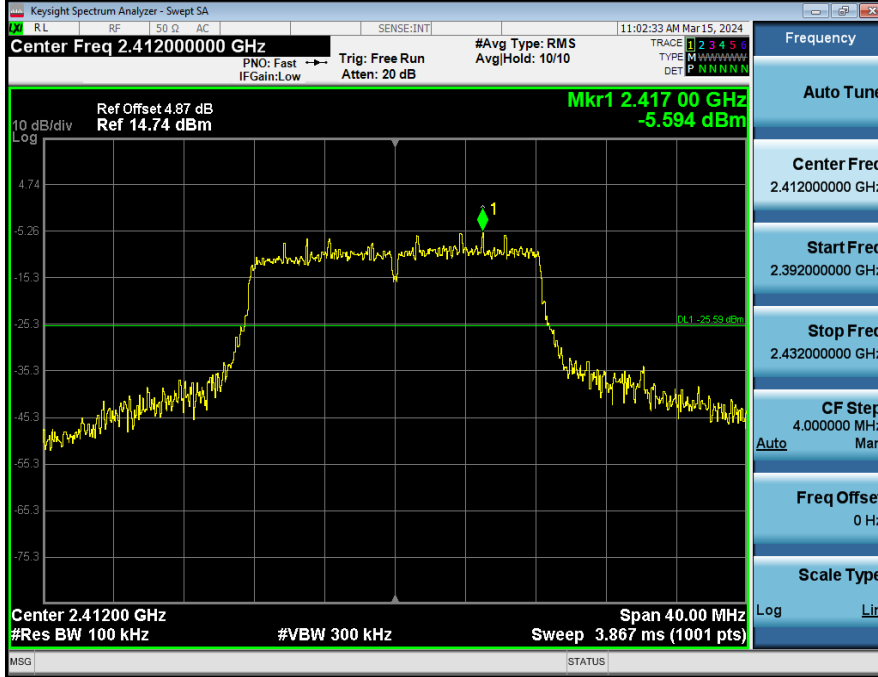
1 Reference Level_NVNT_ANT1_802_11b_2462



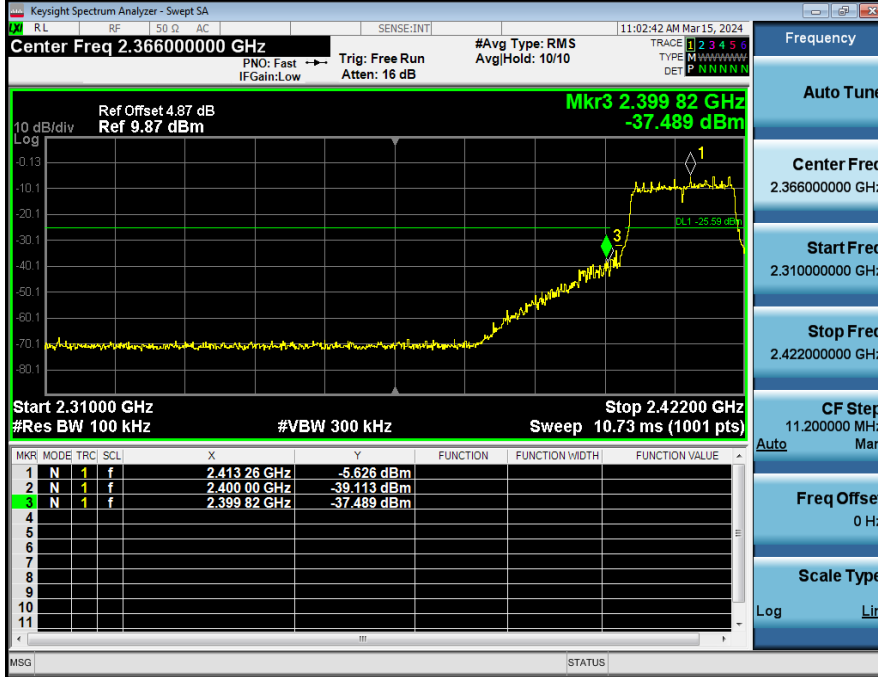
2 Bandedge_NVNT_ANT1_802_11b_2462



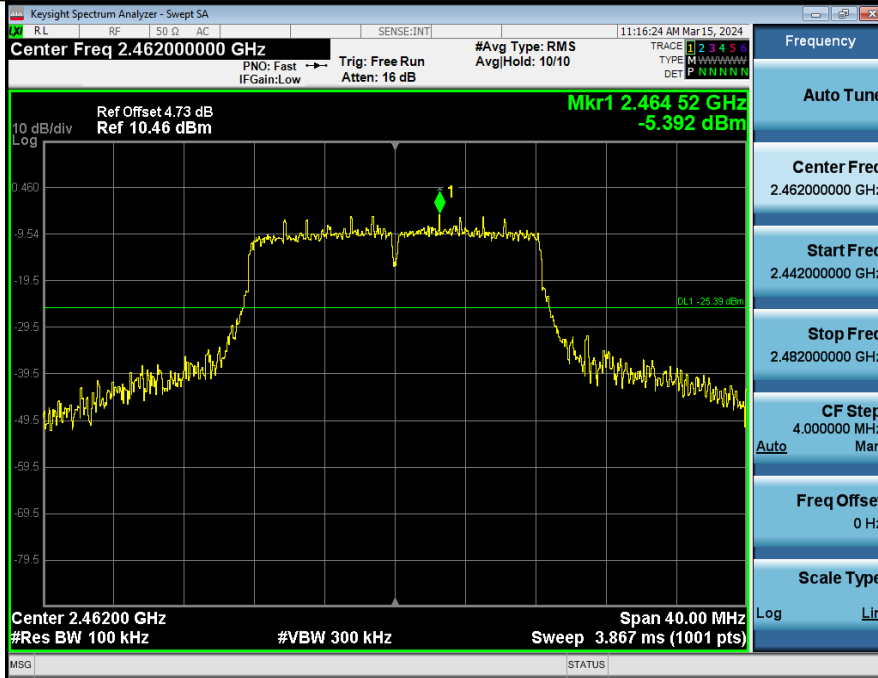
1 Reference Level NVNT_ANT1_802_11g_2412



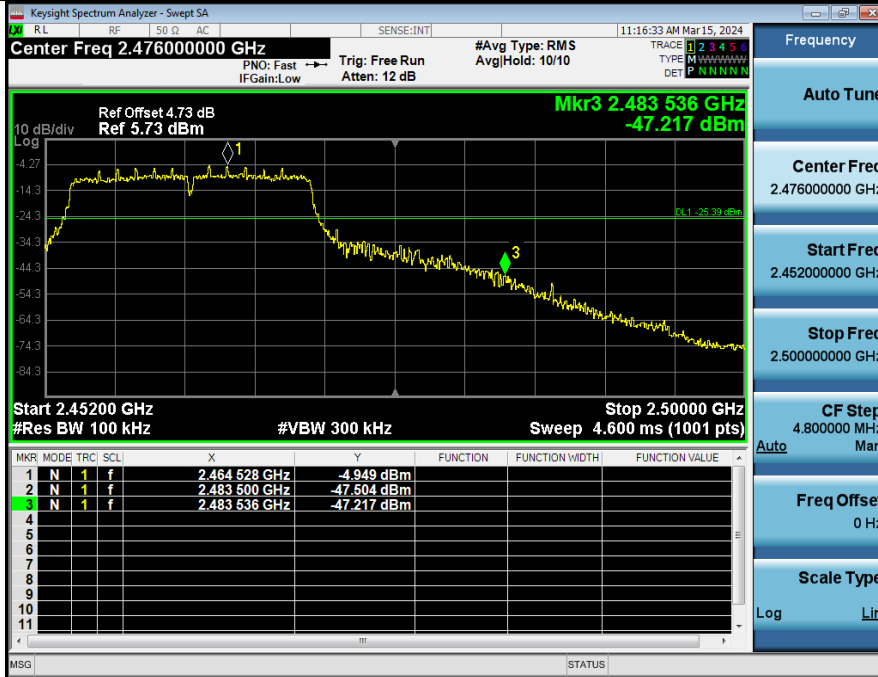
2 Bandedge NVNT_ANT1_802_11g_2412



1 Reference Level NVNT_ANT1_802_11g_2462



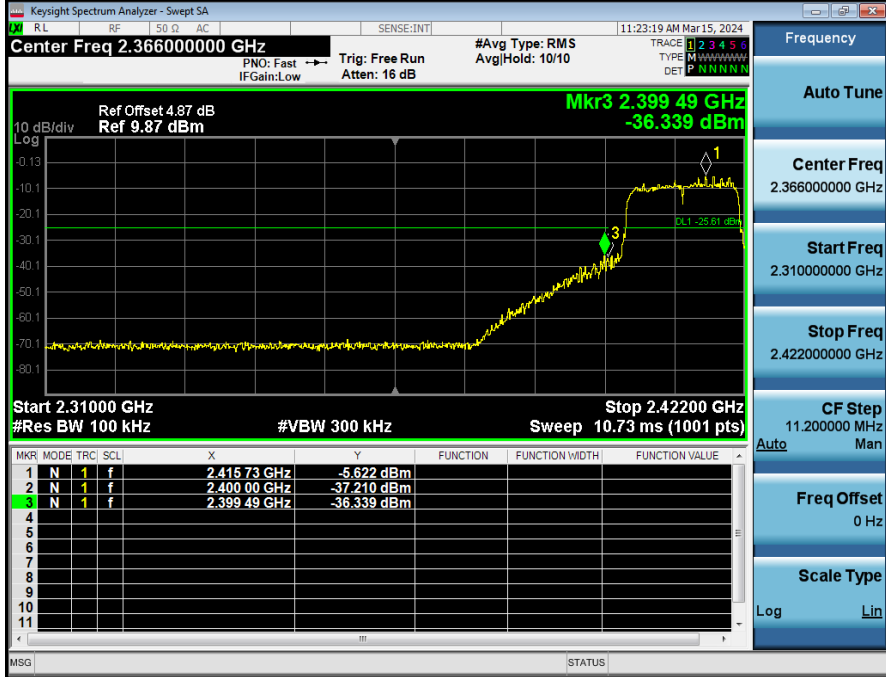
2 Bandedge NVNT_ANT1_802_11g_2462



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



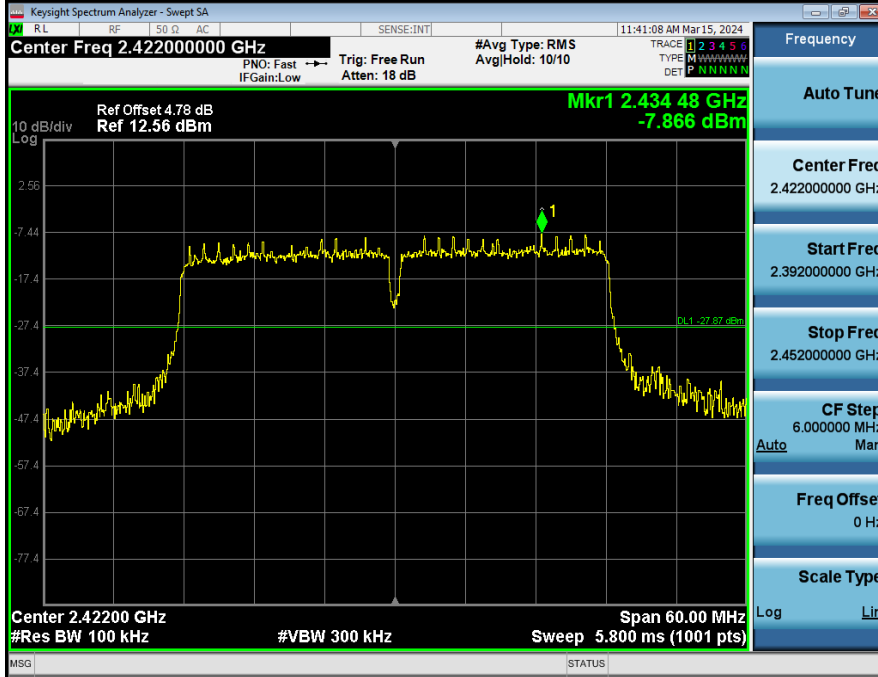
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



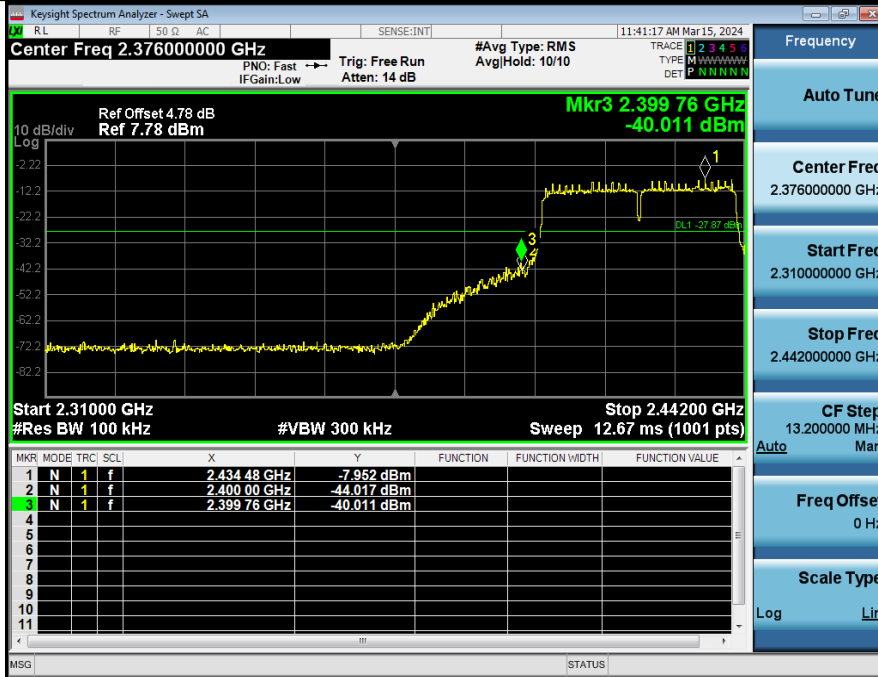
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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

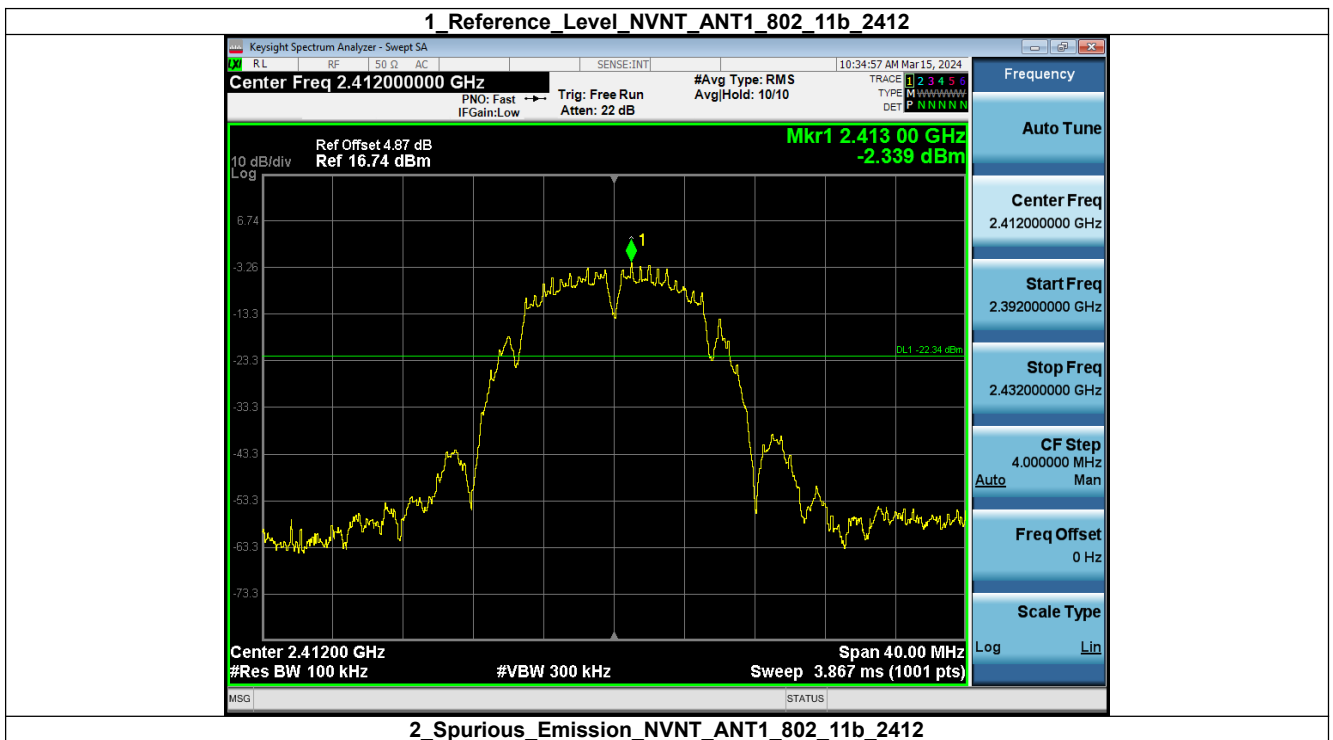


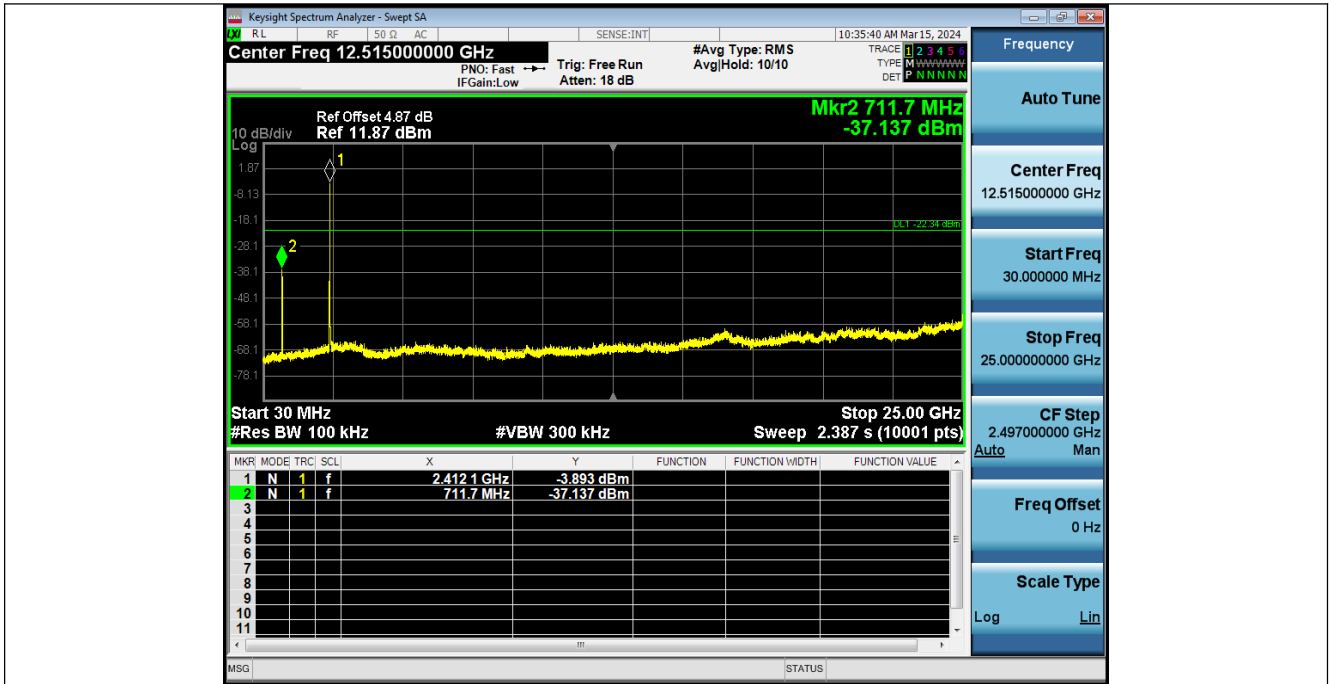
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



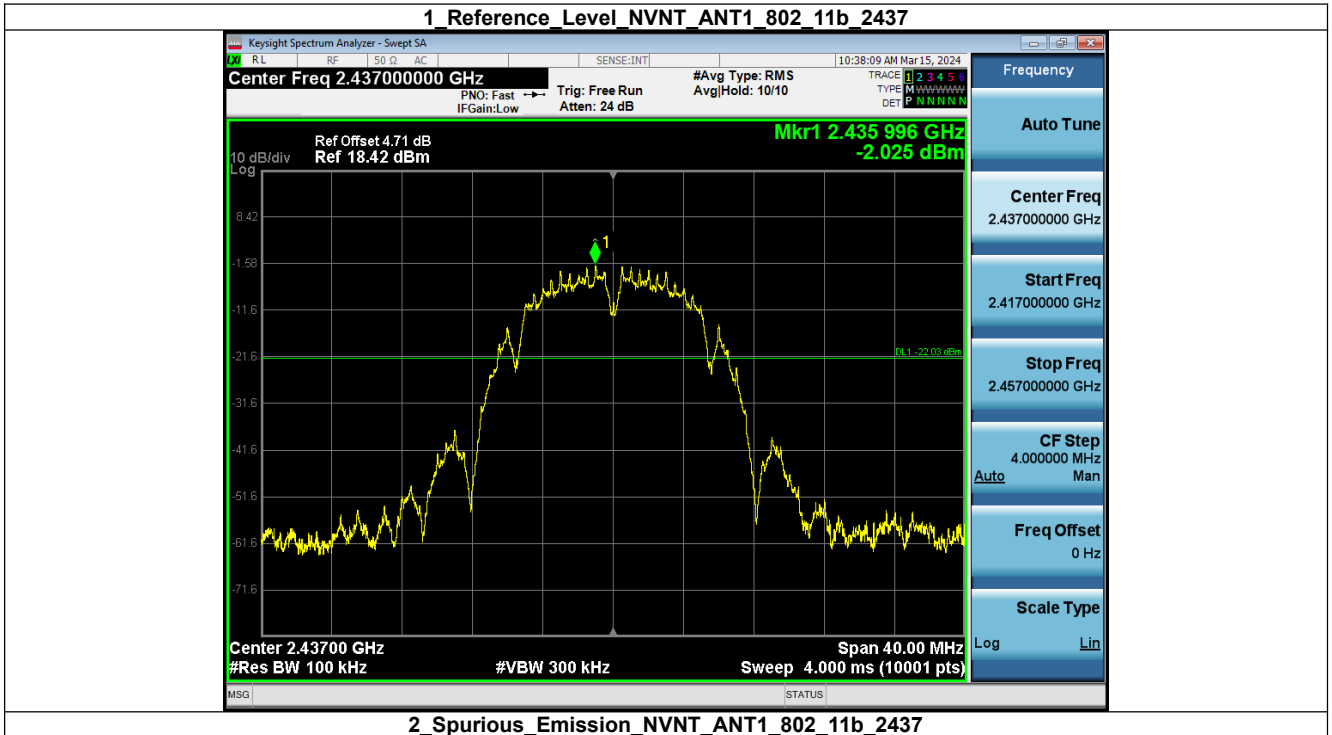
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	711.681	-37.137	-22.339	Pass
NVNT	ANT1	802.11b	2437.00	709.184	-38.197	-22.025	Pass
NVNT	ANT1	802.11b	2462.00	24940.072	-53.842	-21.774	Pass
NVNT	ANT1	802.11g	2412.00	829.040	-32.864	-25.594	Pass
NVNT	ANT1	802.11g	2437.00	24955.054	-58.077	-25.721	Pass
NVNT	ANT1	802.11g	2462.00	5825.537	-52.982	-25.392	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24965.042	-57.947	-25.607	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24972.533	-62.288	-25.360	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	829.040	-30.054	-24.925	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2536.988	-39.544	-27.866	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	896.459	-28.123	-28.121	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	888.968	-28.939	-27.944	Pass

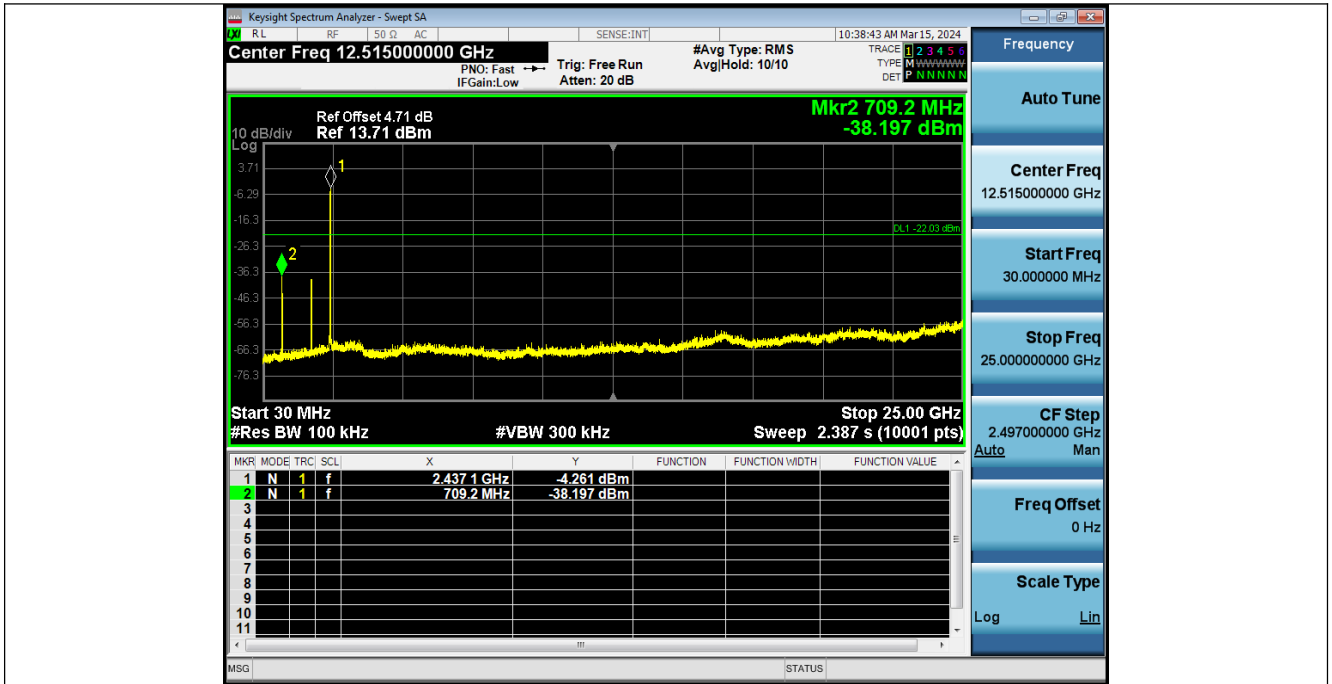




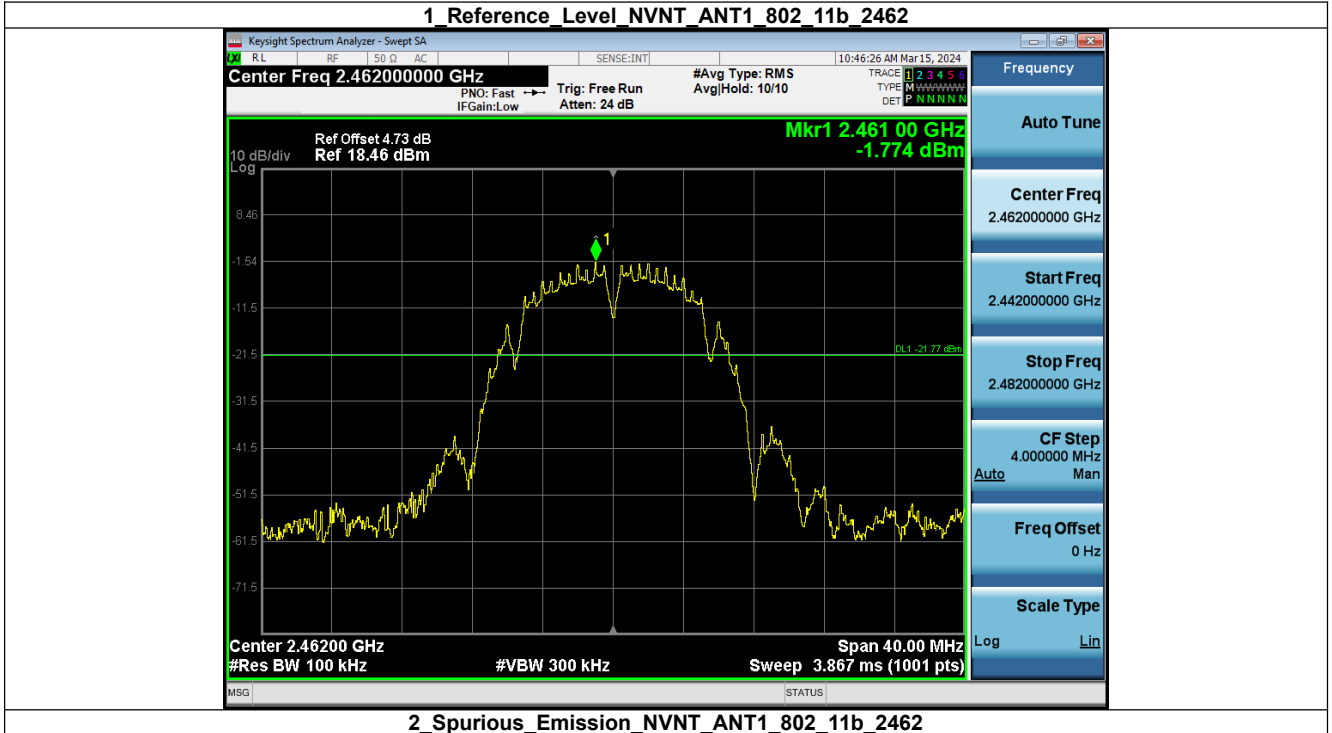
1 Reference Level NVNT_ANT1_802_11b_2437



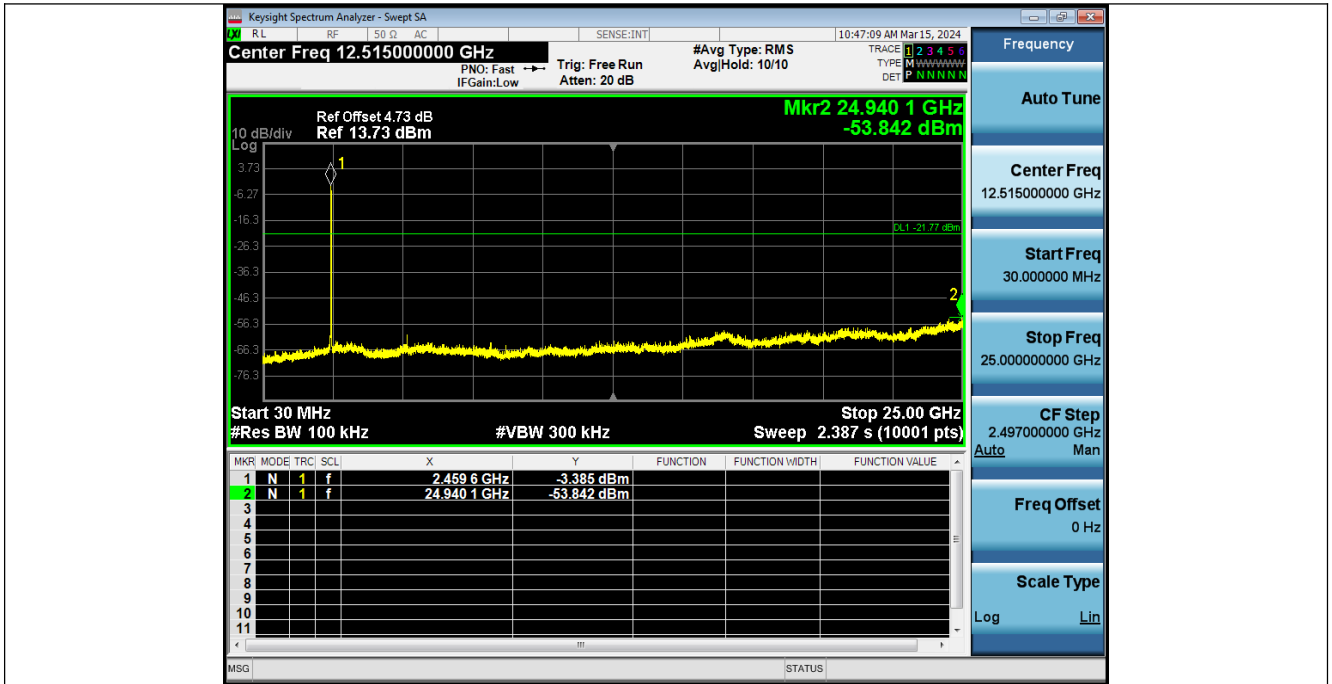
2 Spurious Emission_NVNT_ANT1_802_11b_2437



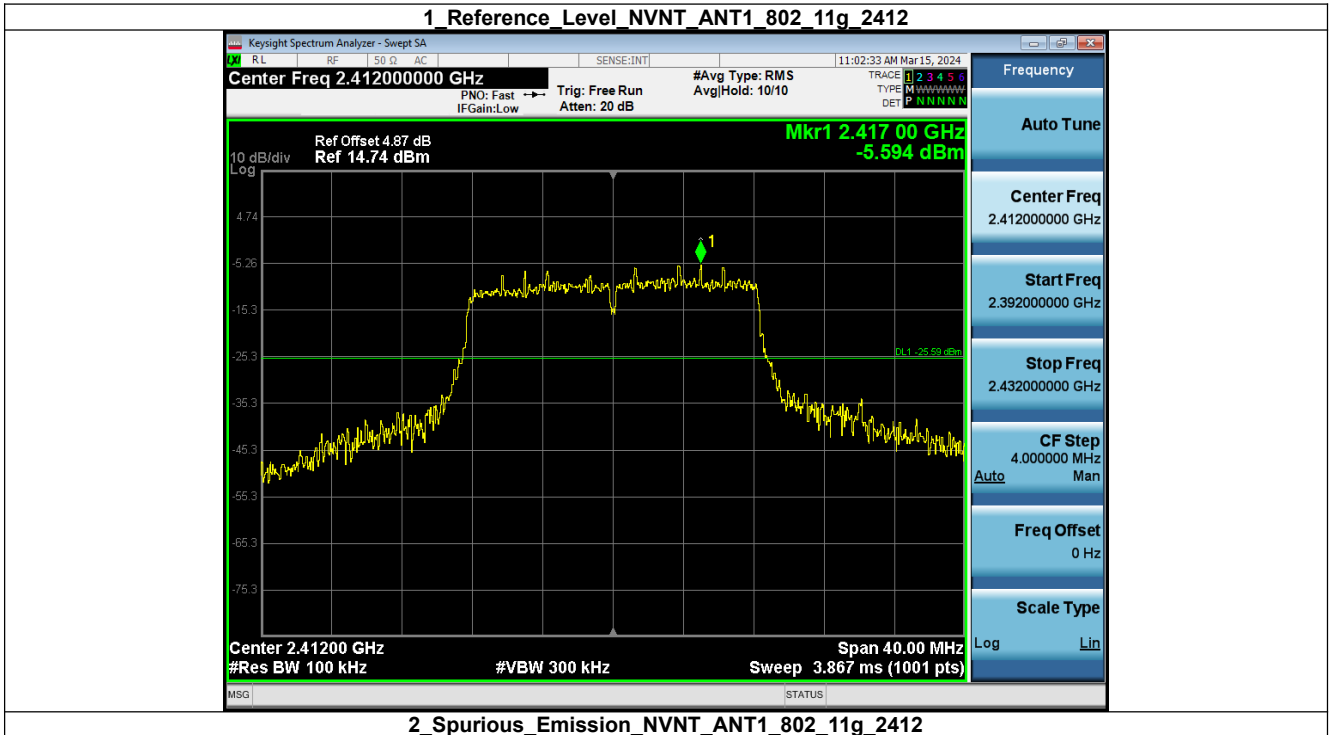
1 Reference Level NVNT_ANT1_802_11b_2462



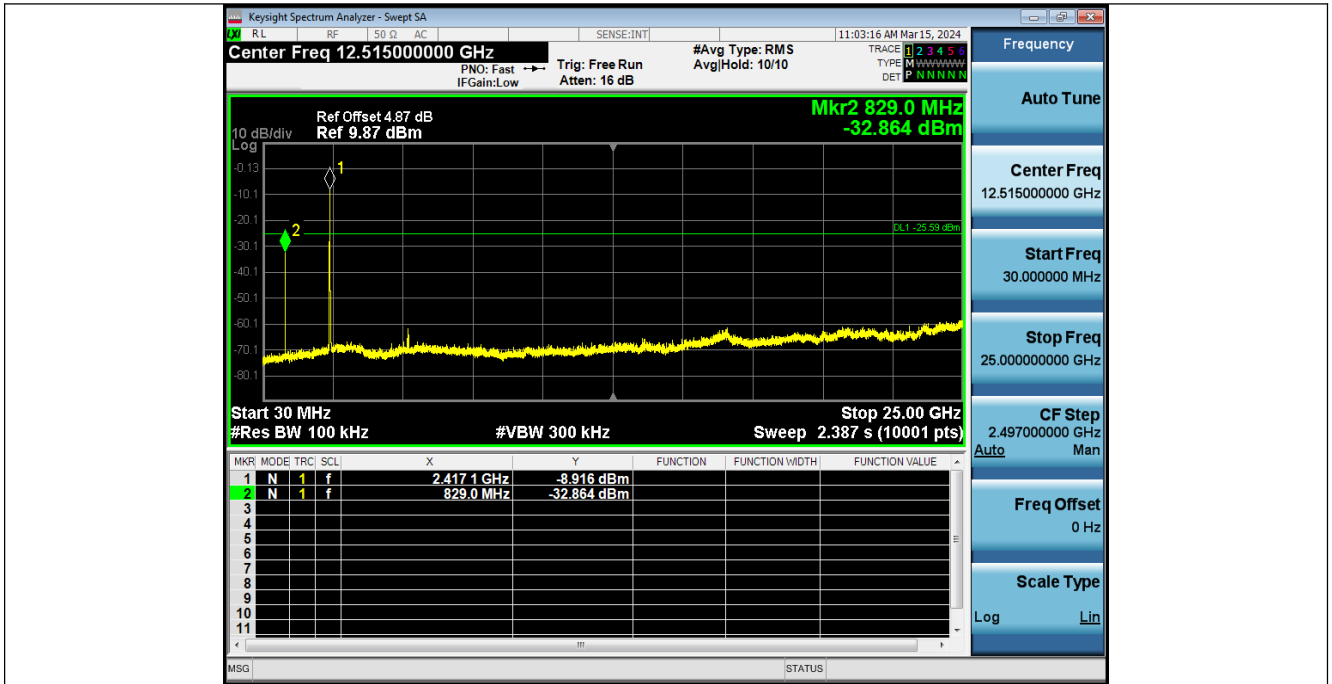
2 Spurious Emission_NVNT_ANT1_802_11b_2462



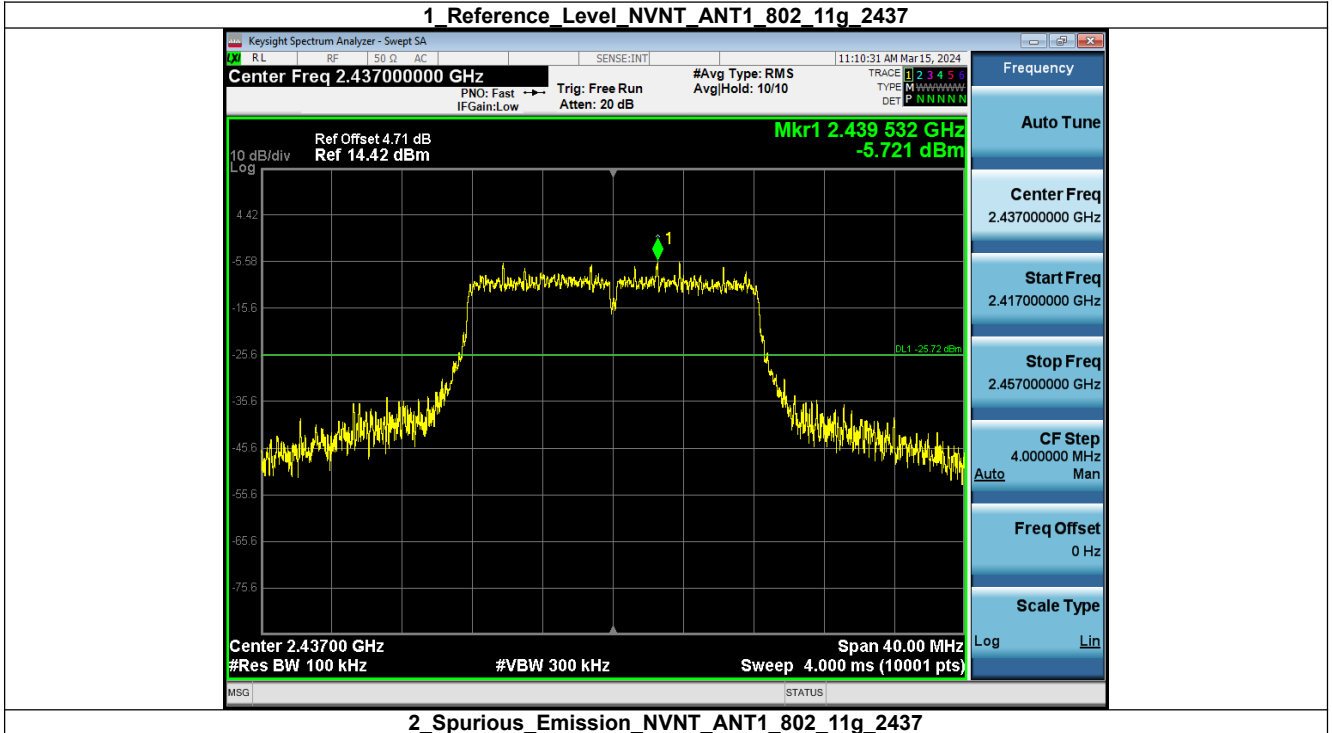
1 Reference Level NVNT_ANT1_802_11g_2412



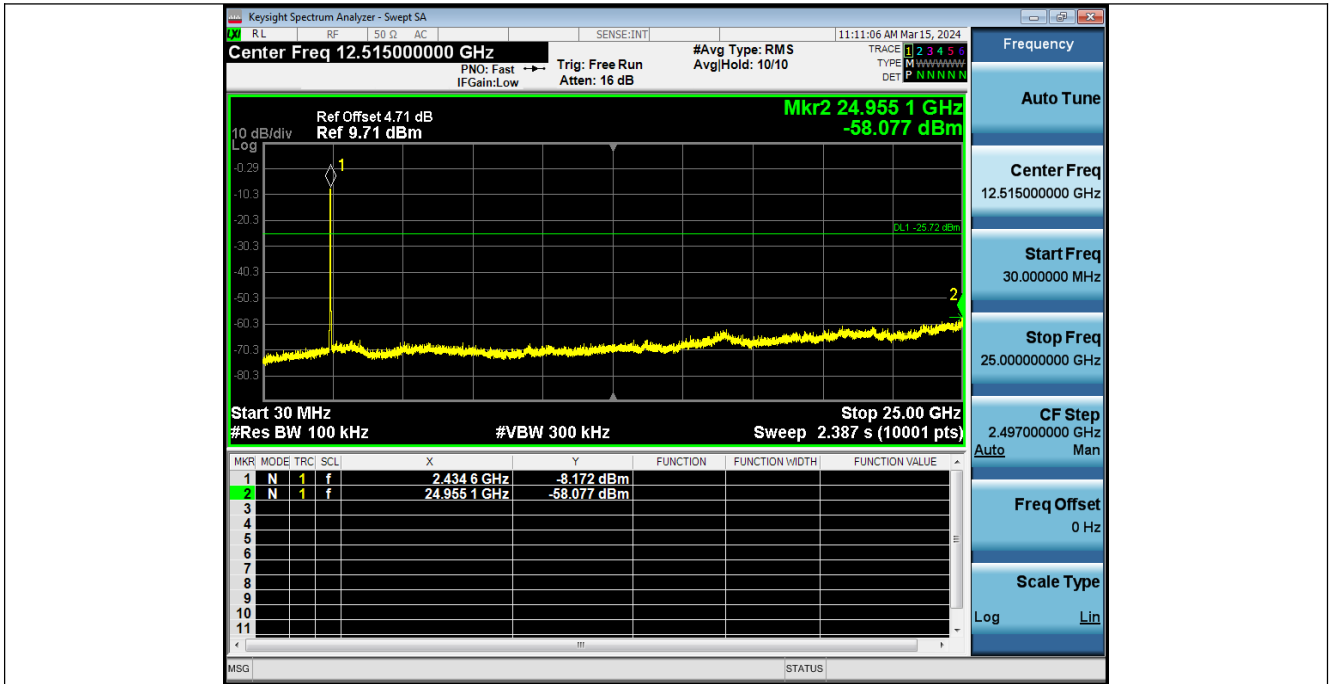
2 Spurious Emission_NVNT_ANT1_802_11g_2412



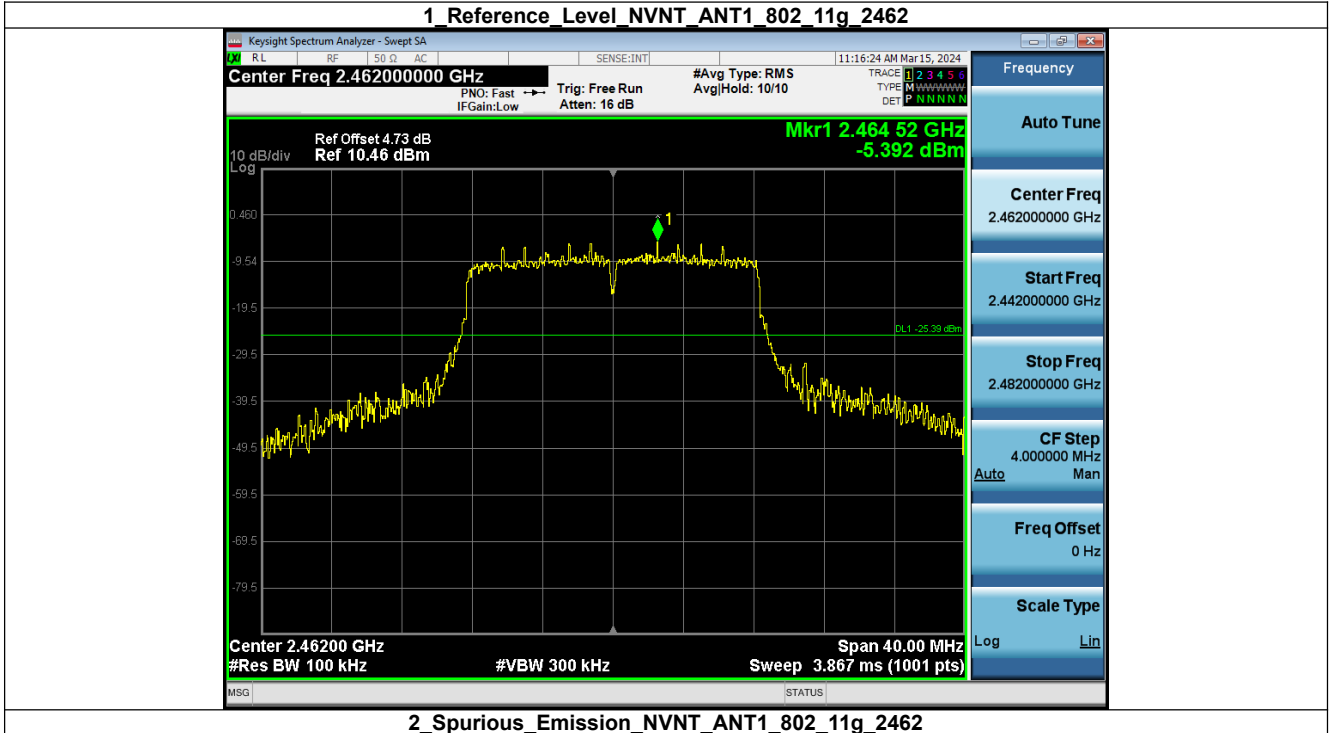
1 Reference Level NVNT ANT1 802 11g 2437



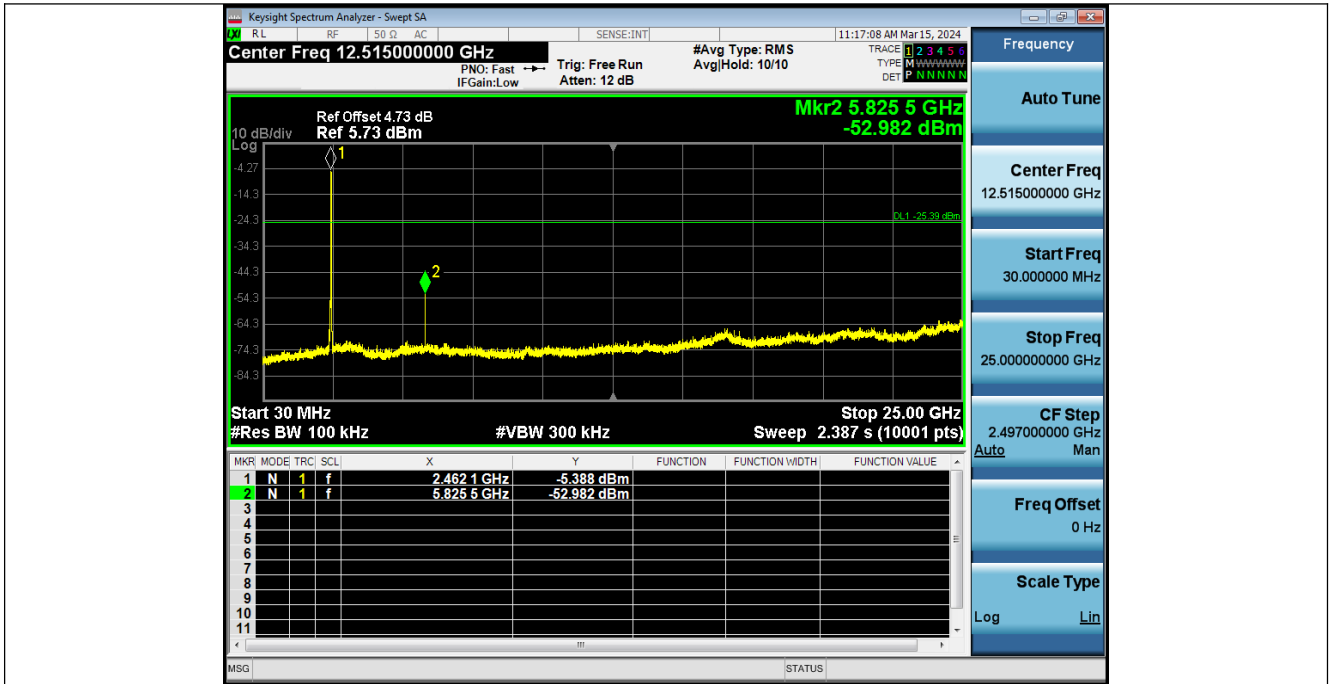
2 Spurious Emission NVNT ANT1 802 11g 2437



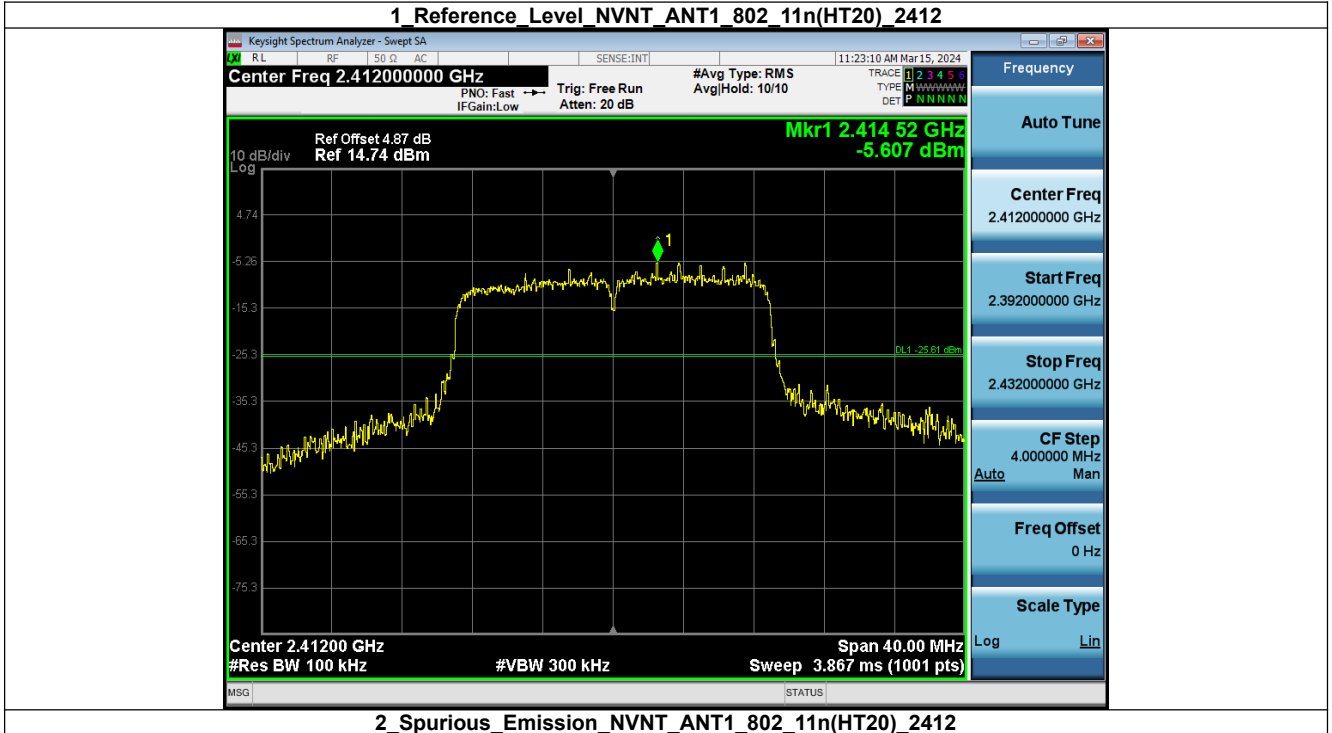
1 Reference Level NVNT_ANT1_802_11g_2462



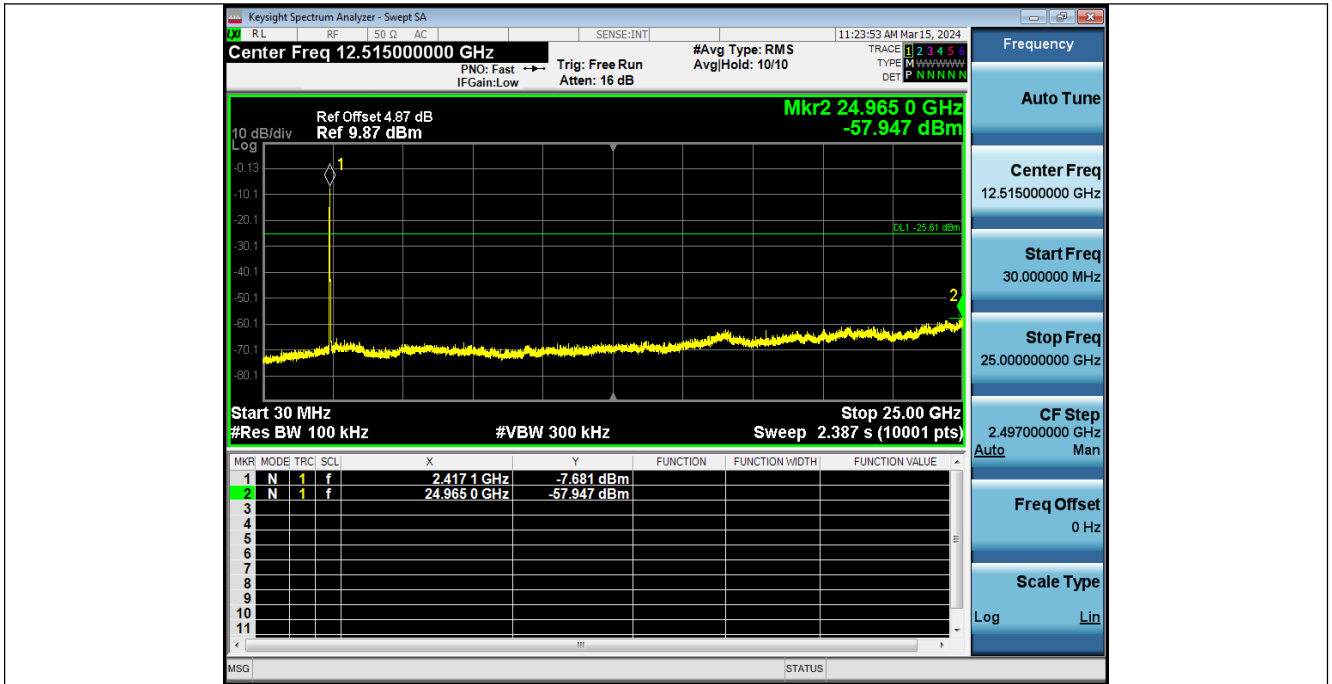
2 Spurious Emission_NVNT_ANT1_802_11g_2462



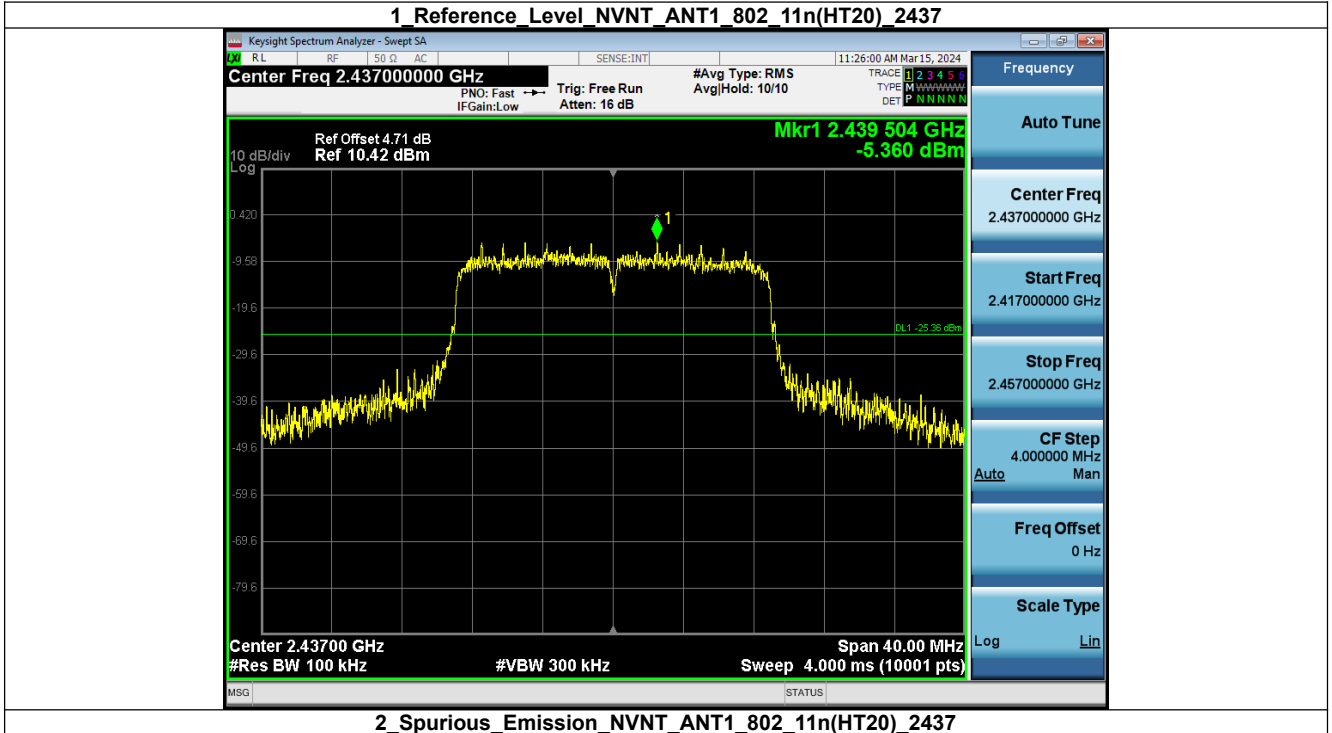
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



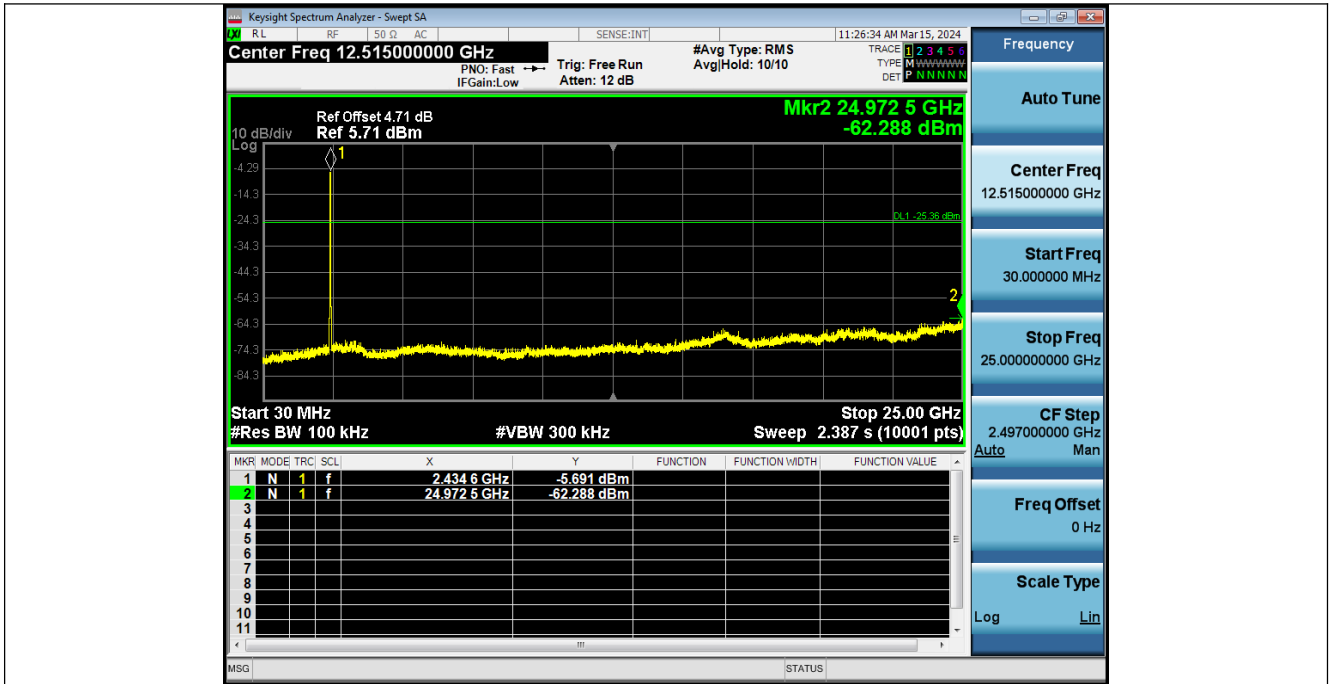
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412



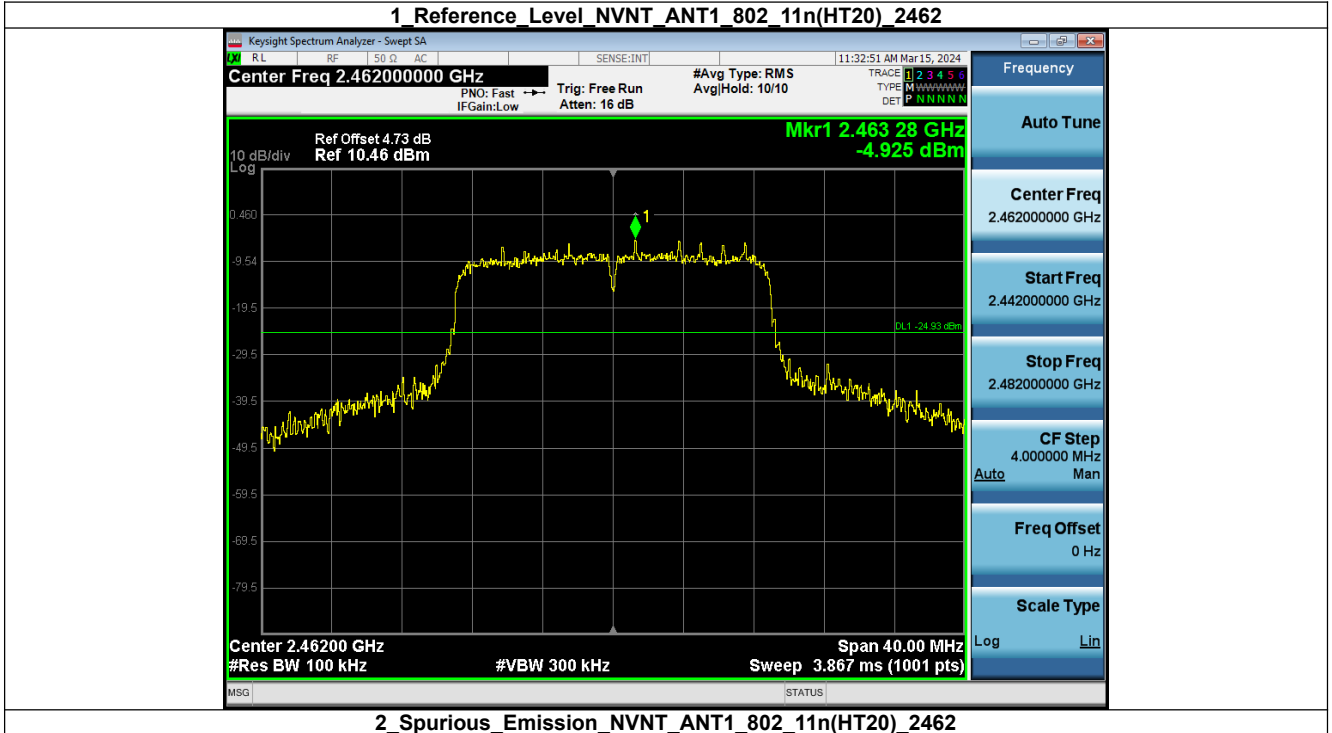
1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



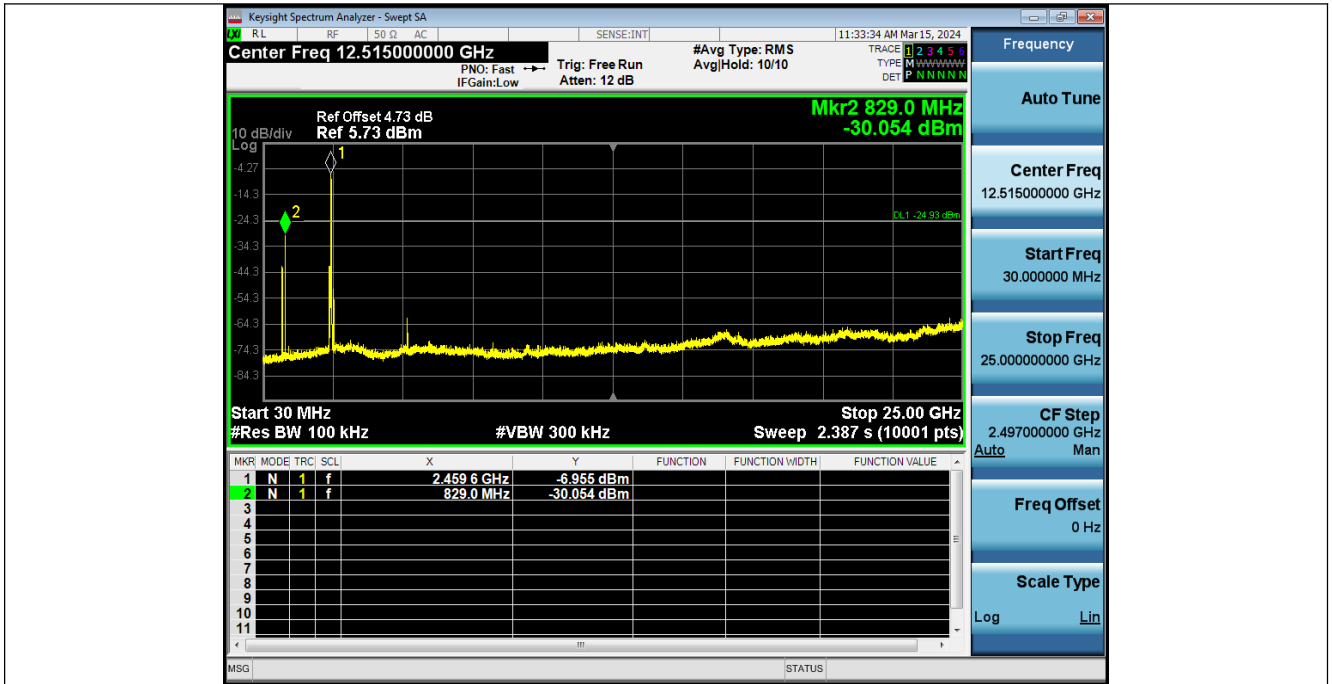
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



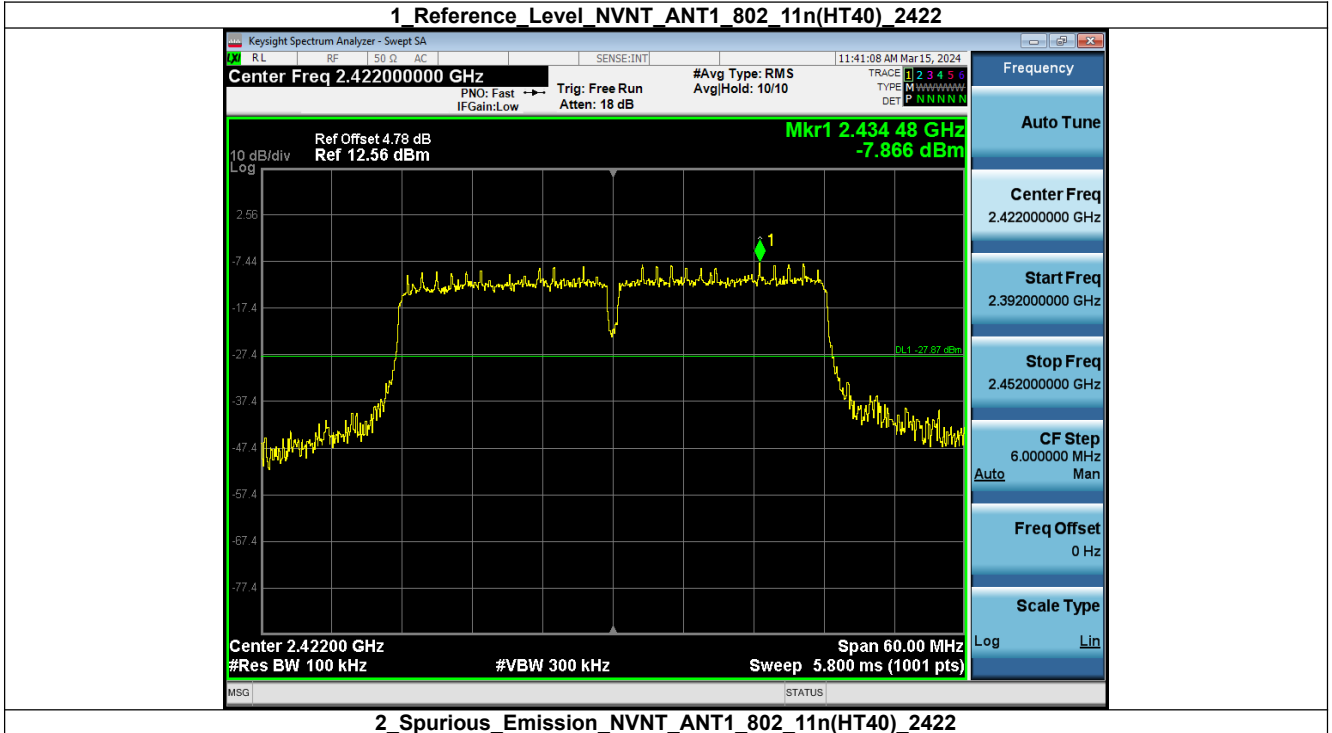
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



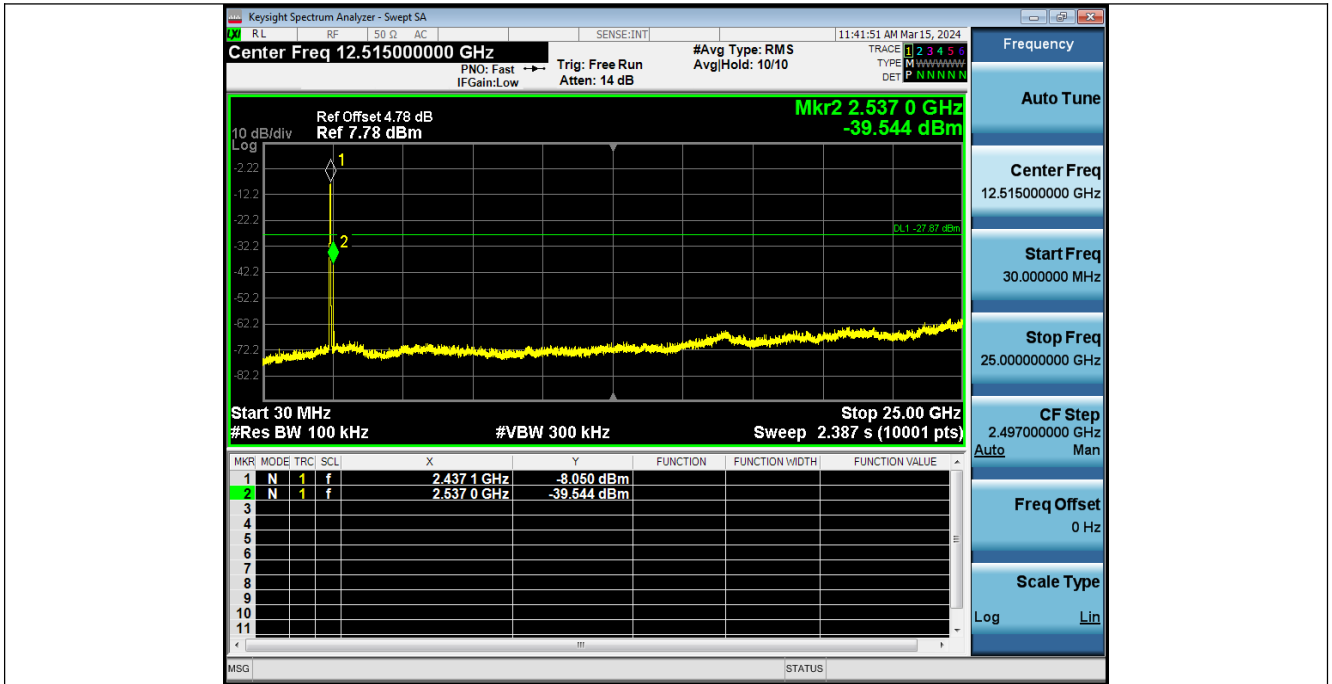
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



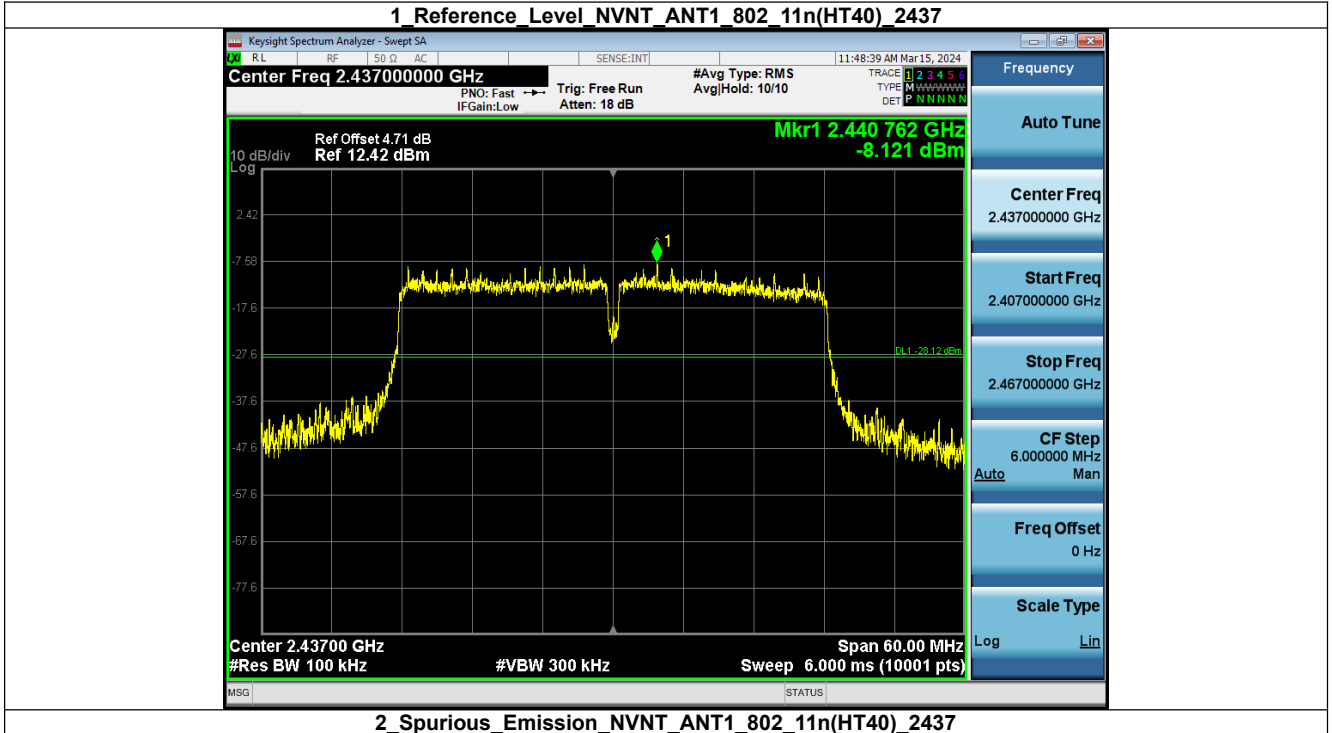
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



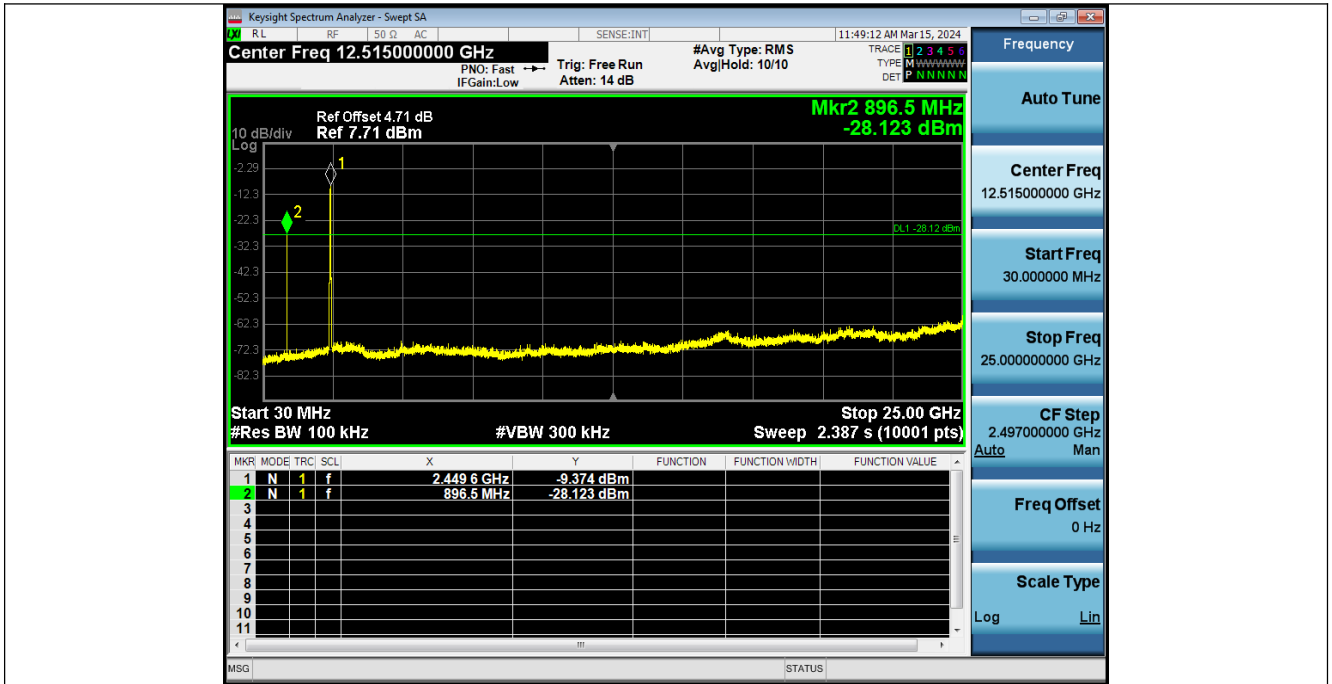
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



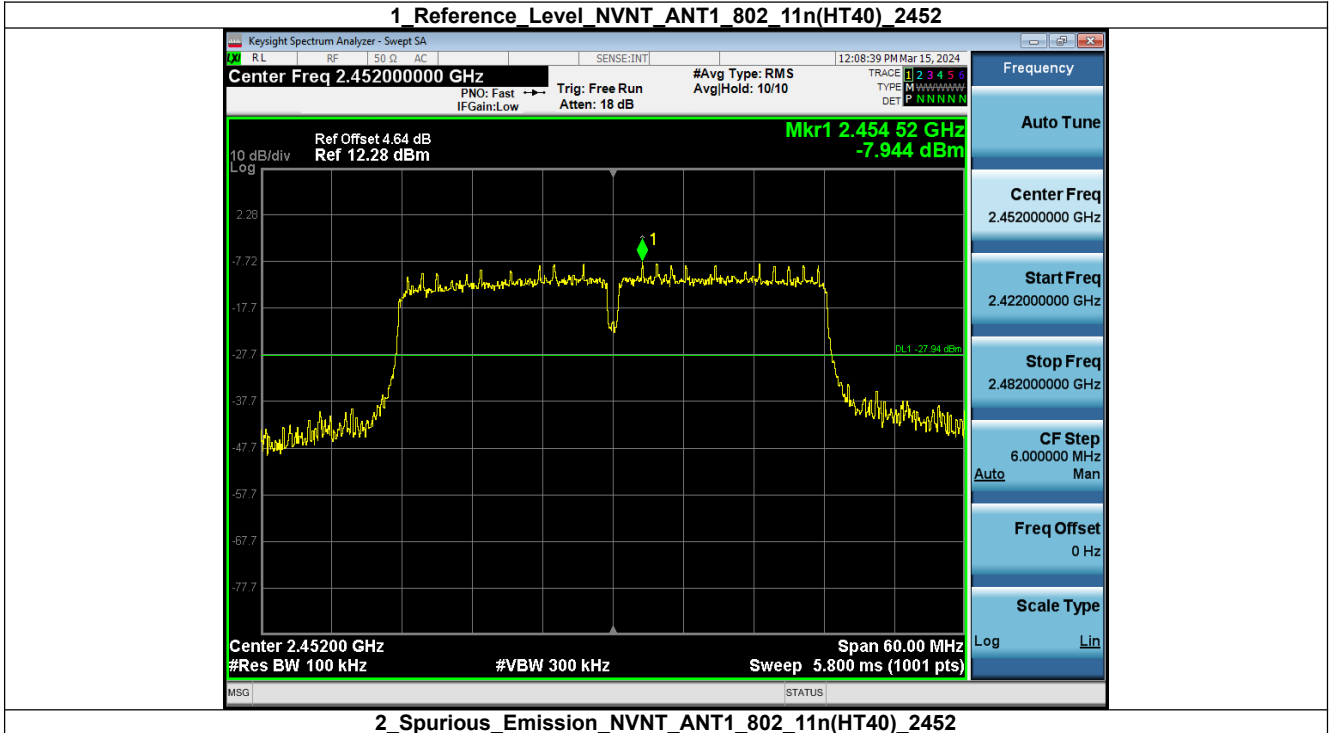
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2437



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

