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FCC ID:2AO8RNI-8511

FCC_2.4G_WIFI (Part 15.247) Test Data

1. -6dB Bandwidth

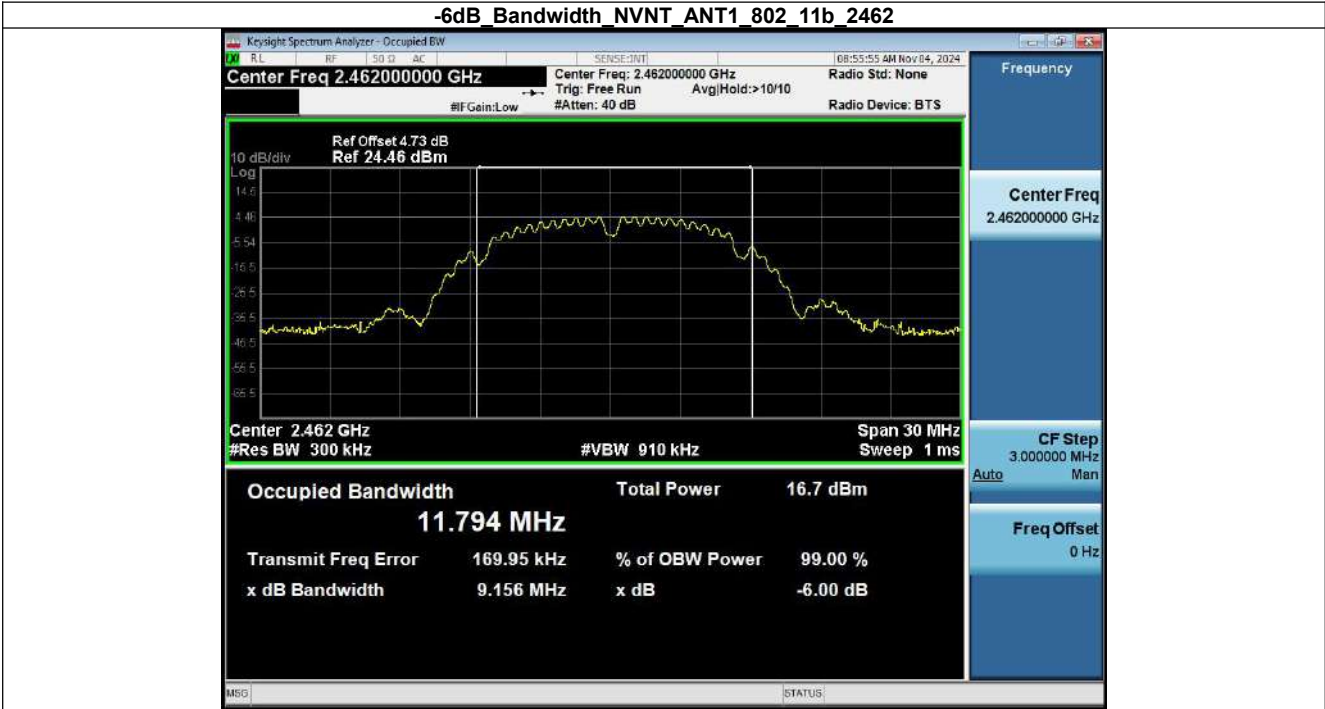
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.18	500	Pass
NVNT	ANT1	802.11b	2437.00	9.20	500	Pass
NVNT	ANT1	802.11b	2462.00	9.16	500	Pass
NVNT	ANT1	802.11g	2412.00	16.50	500	Pass
NVNT	ANT1	802.11g	2437.00	16.45	500	Pass
NVNT	ANT1	802.11g	2462.00	16.33	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.51	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.44	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.27	500	Pass



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



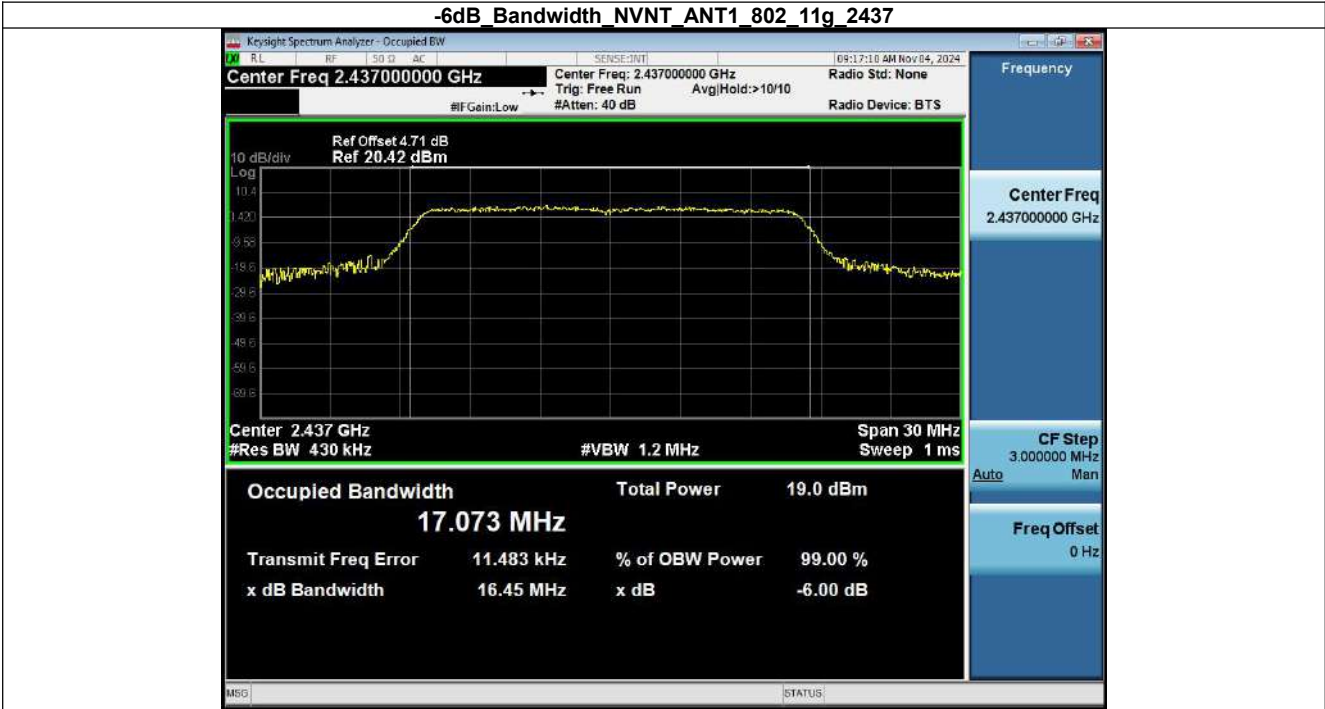
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



-6dB Bandwidth NVNT_ANT1_802_11g_2437



-6dB Bandwidth NVNT_ANT1_802_11g_2462



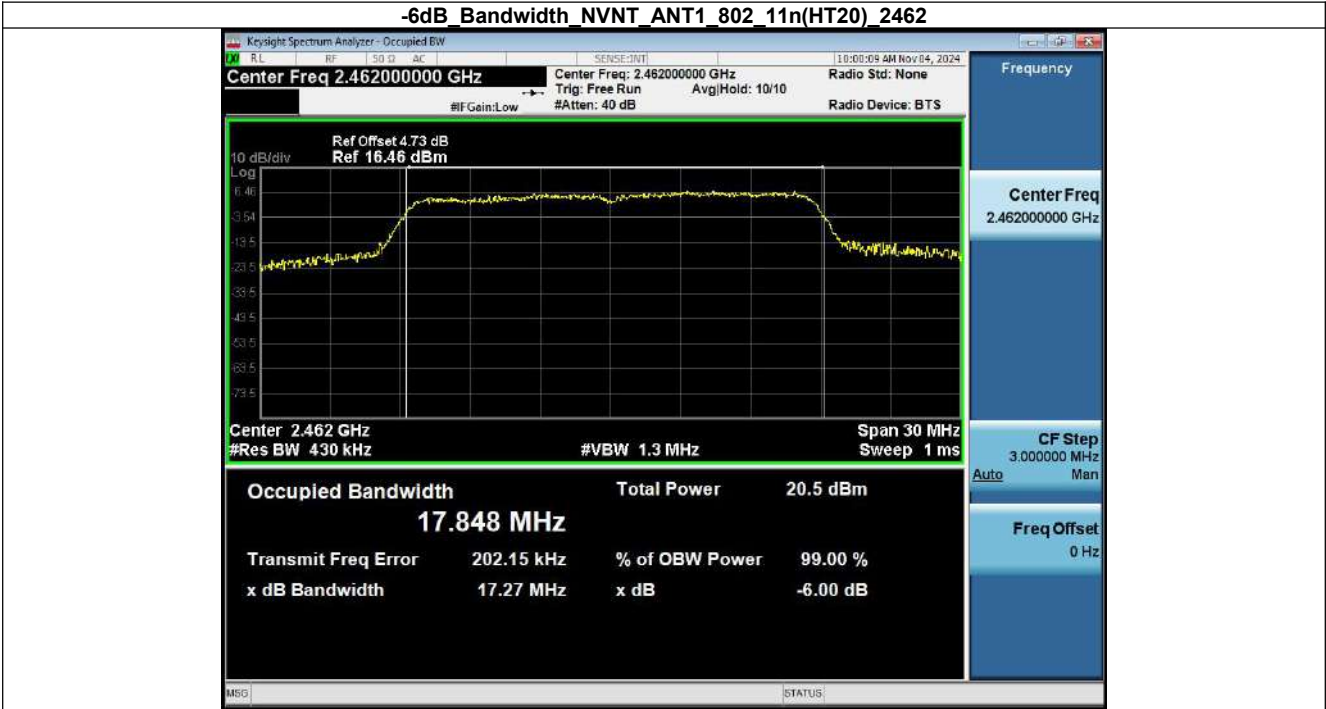
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

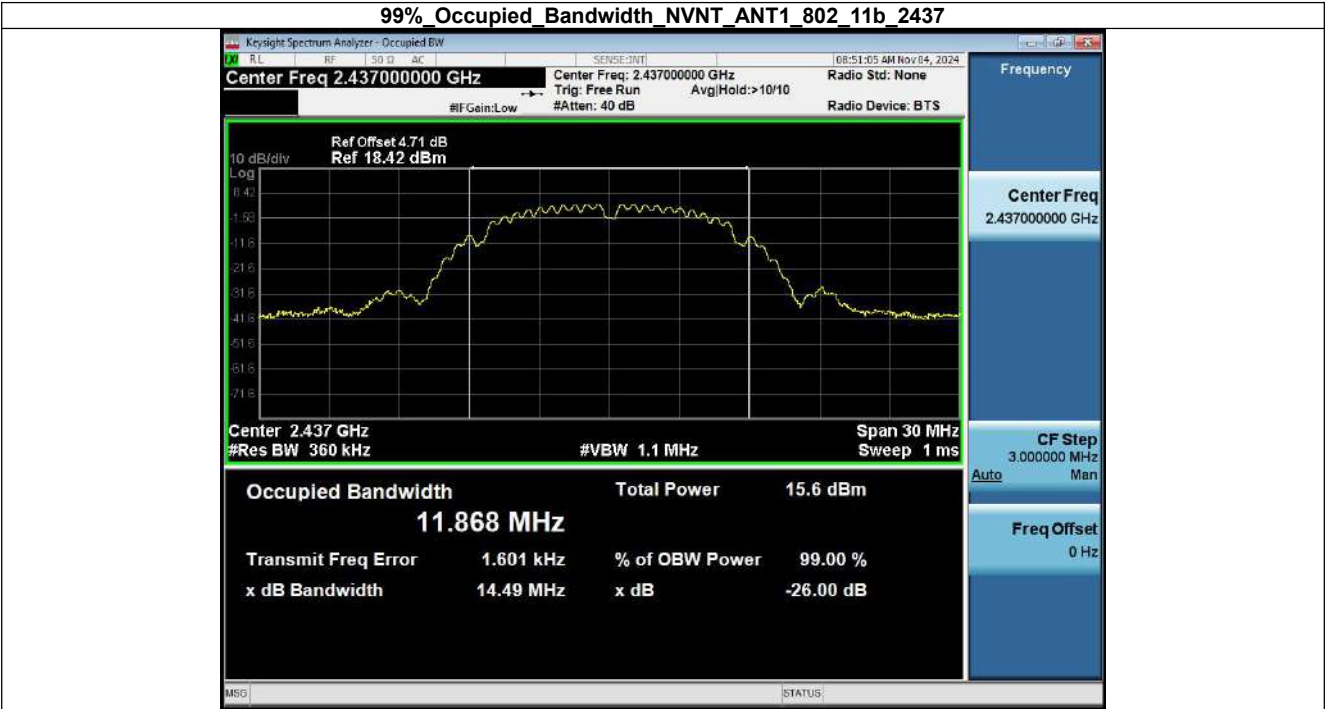


-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.828
NVNT	ANT1	802.11b	2437.00	11.868
NVNT	ANT1	802.11b	2462.00	11.823
NVNT	ANT1	802.11g	2412.00	17.130
NVNT	ANT1	802.11g	2437.00	17.268
NVNT	ANT1	802.11g	2462.00	17.219
NVNT	ANT1	802.11n(HT20)	2412.00	17.936
NVNT	ANT1	802.11n(HT20)	2437.00	17.878
NVNT	ANT1	802.11n(HT20)	2462.00	17.902



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

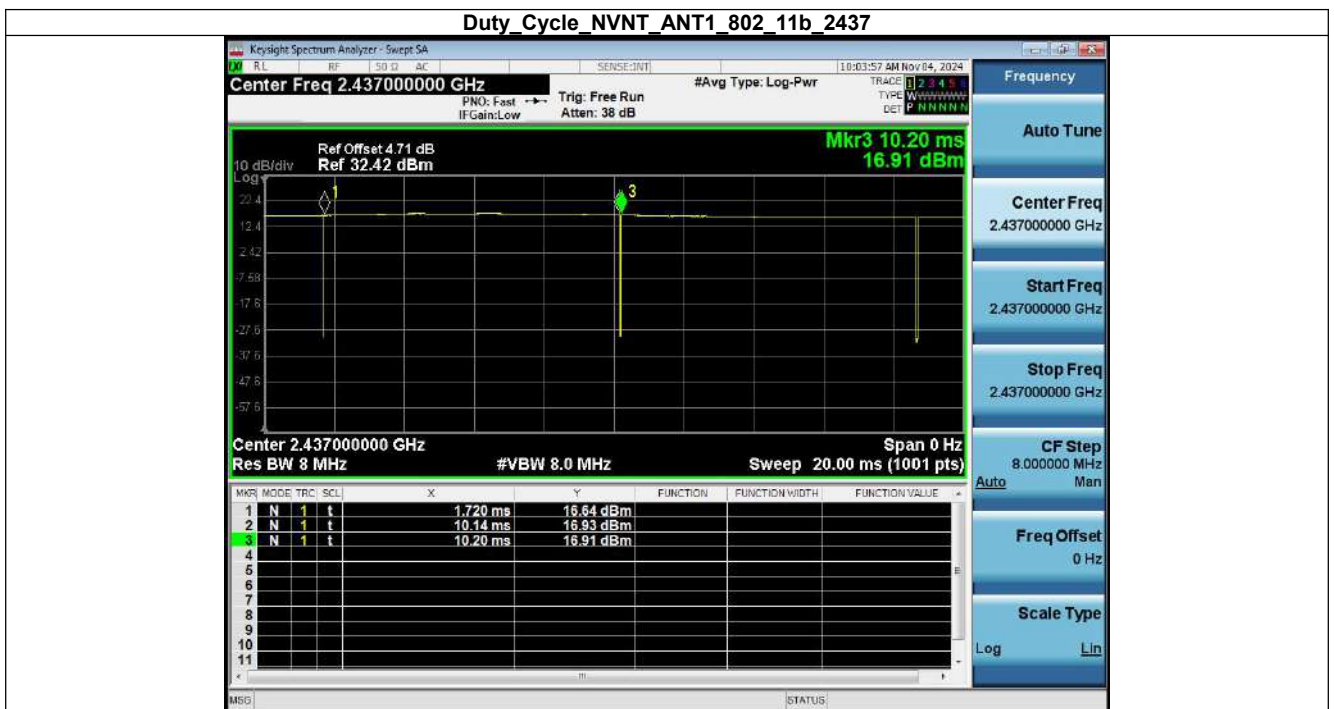
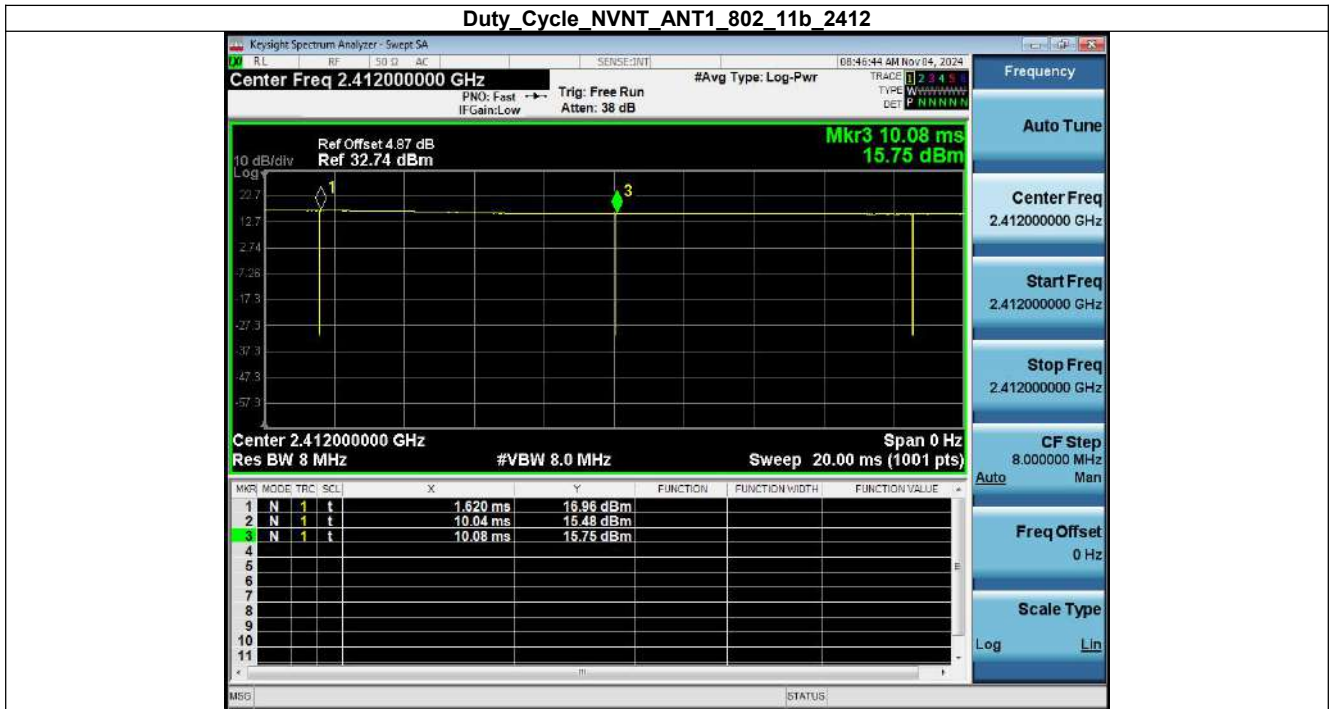


99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

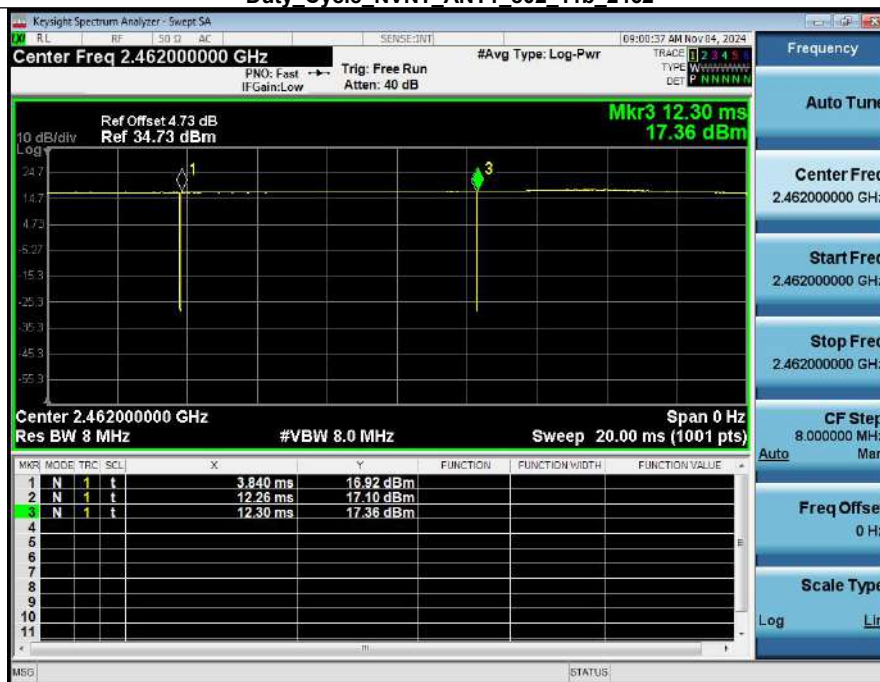


3. Duty Cycle

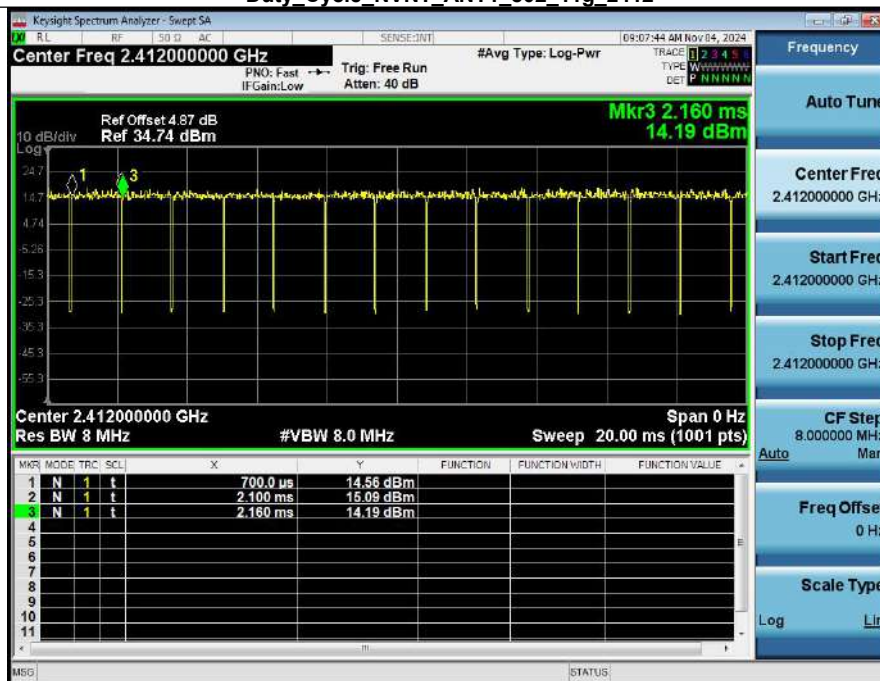
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.22	0.12
NVNT	ANT1	802.11g	2462.00	98.61	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2437.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14



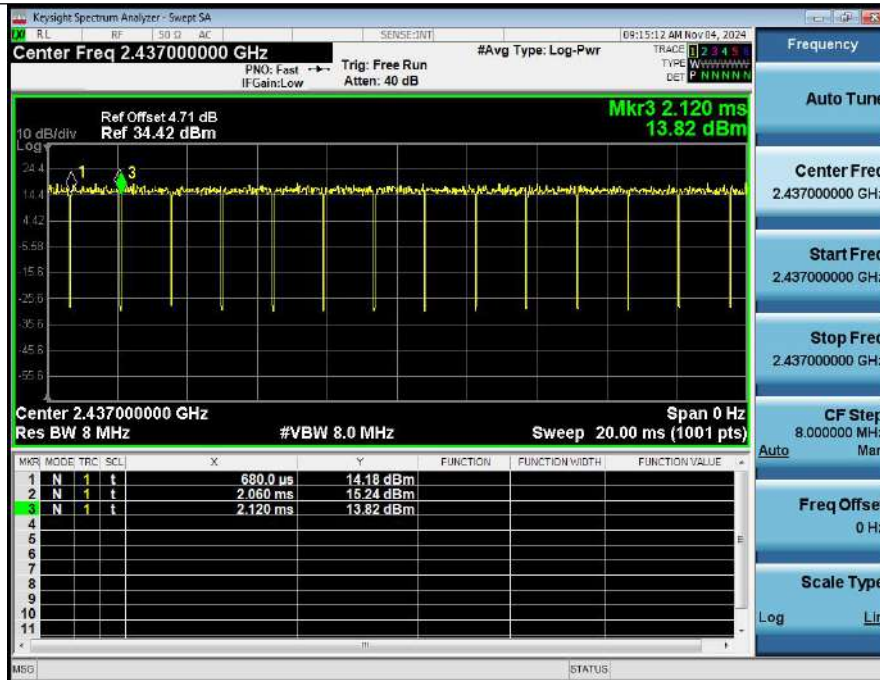
Duty Cycle NVNT_ANT1_802_11b_2462



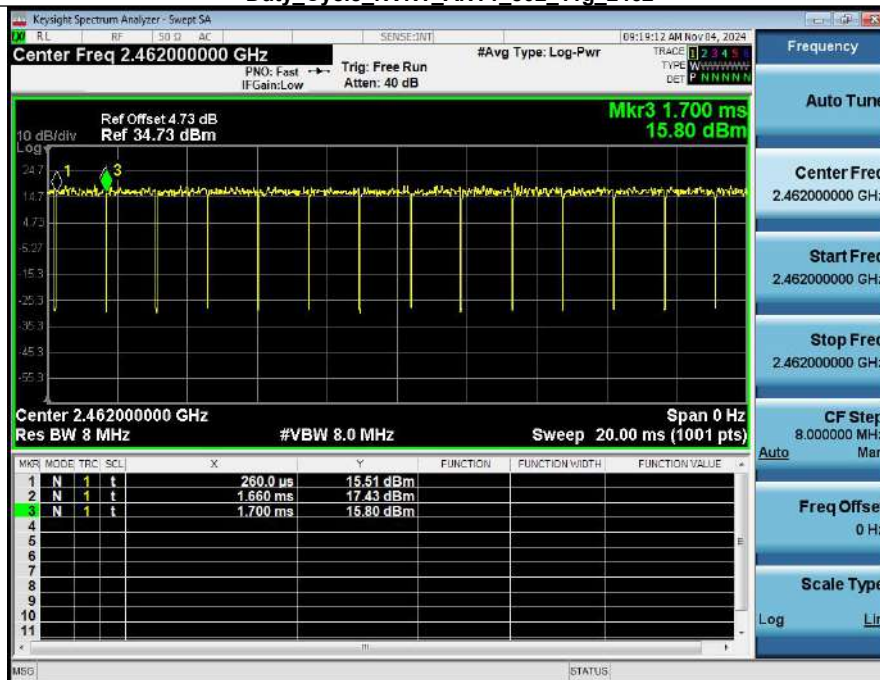
Duty Cycle NVNT_ANT1_802_11g_2412



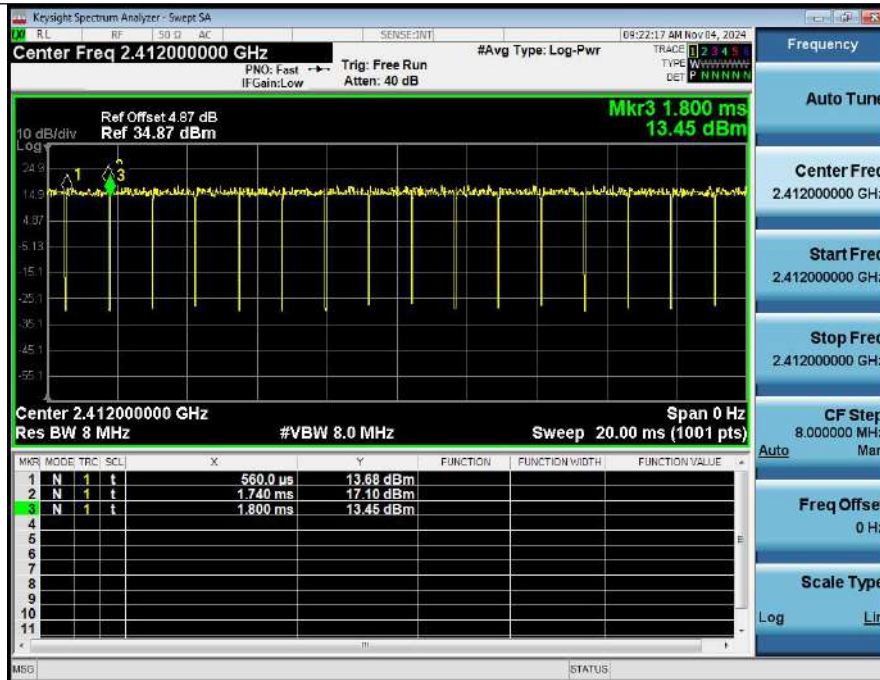
Duty Cycle NVNT_ANT1_802_11g_2437



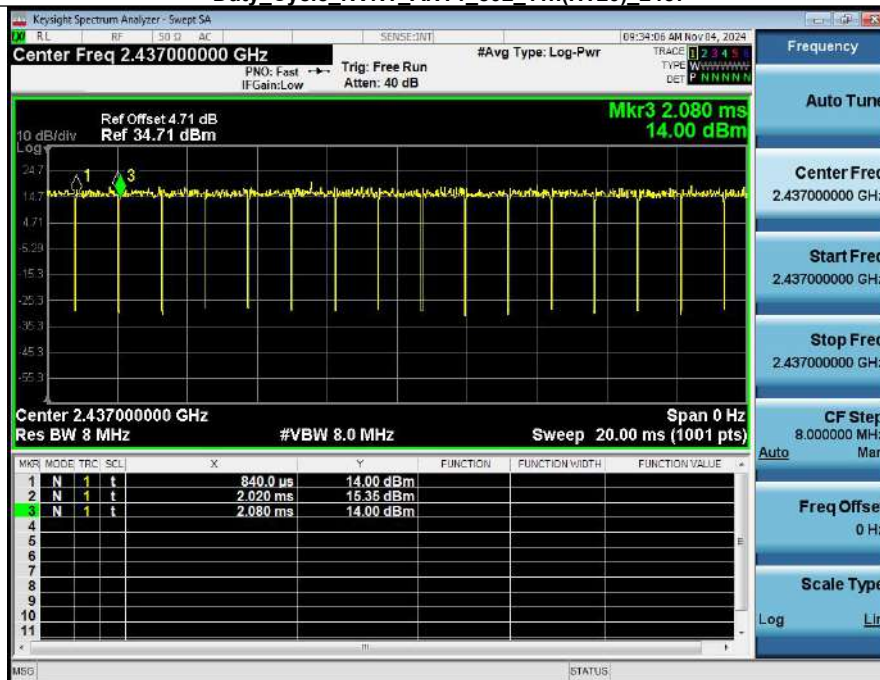
Duty_Cycle_NVNT_ANT1_802_11g_2462



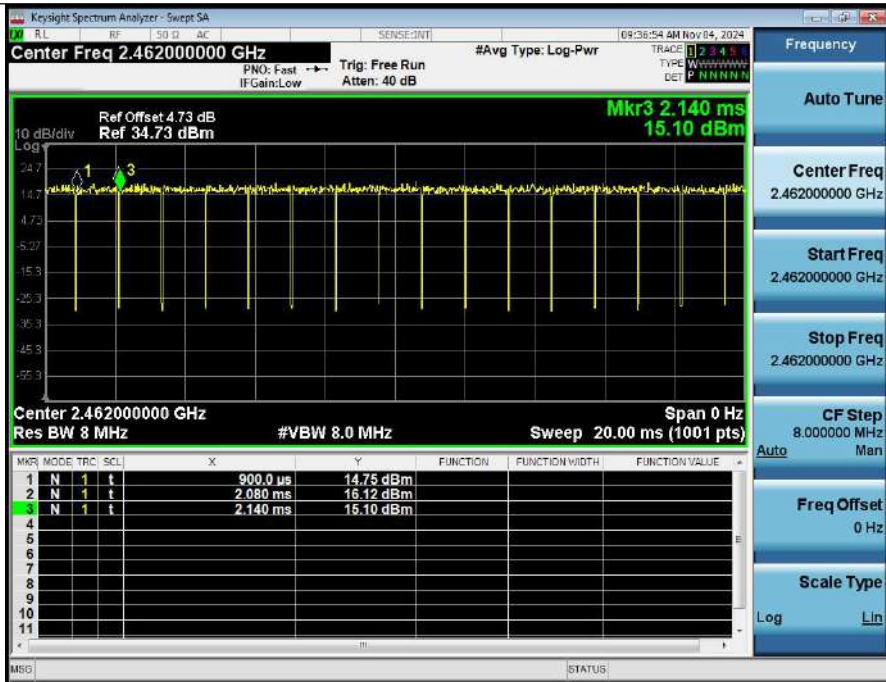
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Conducted Power limit(dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	15.02	30	3.8	18.82	36	Pass
NVNT	ANT1	802.11b	2437.00	Peak	15.18	30	3.8	18.98	36	Pass
NVNT	ANT1	802.11b	2462.00	Peak	15.80	30	3.8	19.60	36	Pass
NVNT	ANT1	802.11g	2412.00	Peak	19.36	30	3.8	23.16	36	Pass
NVNT	ANT1	802.11g	2437.00	Peak	19.68	30	3.8	23.48	36	Pass
NVNT	ANT1	802.11g	2462.00	Peak	20.37	30	3.8	24.17	36	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	19.97	30	3.8	23.77	36	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	20.16	30	3.8	23.96	36	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	20.93	30	3.8	24.73	36	Pass

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	0.58	-10.00	-9.42	8	Pass
NVNT	ANT1	802.11b	2437.00	2.18	-10.00	-7.82	8	Pass
NVNT	ANT1	802.11b	2462.00	0.59	-10.00	-9.41	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.00	-10.00	-14.00	8	Pass
NVNT	ANT1	802.11g	2437.00	-3.92	-10.00	-13.92	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.20	-10.00	-13.20	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.02	-10.00	-14.02	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-4.12	-10.00	-14.12	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.59	-10.00	-12.59	8	Pass



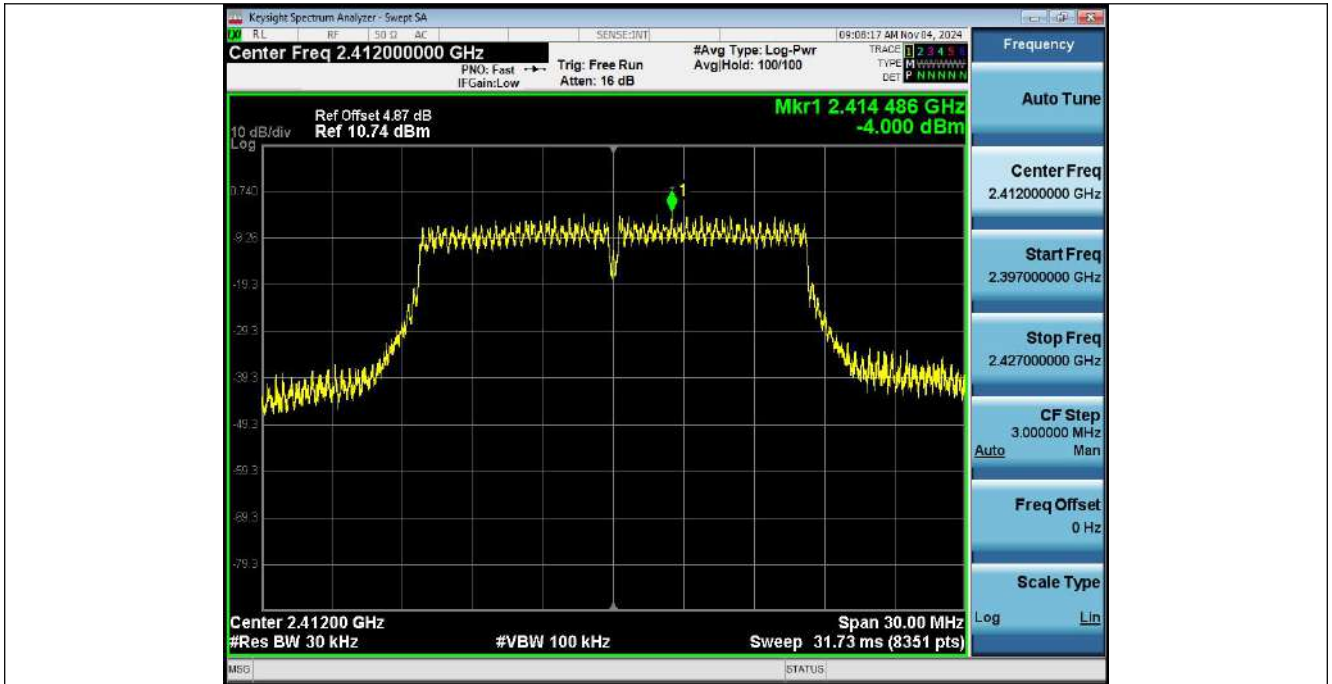
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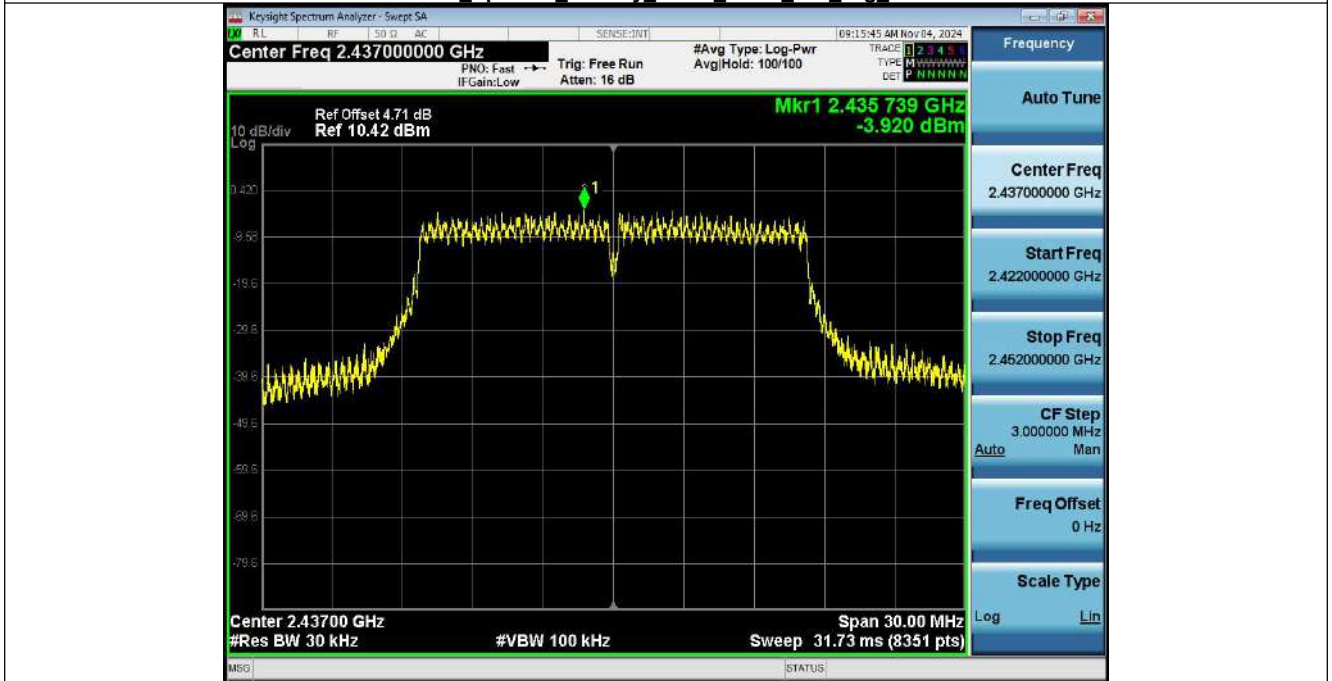
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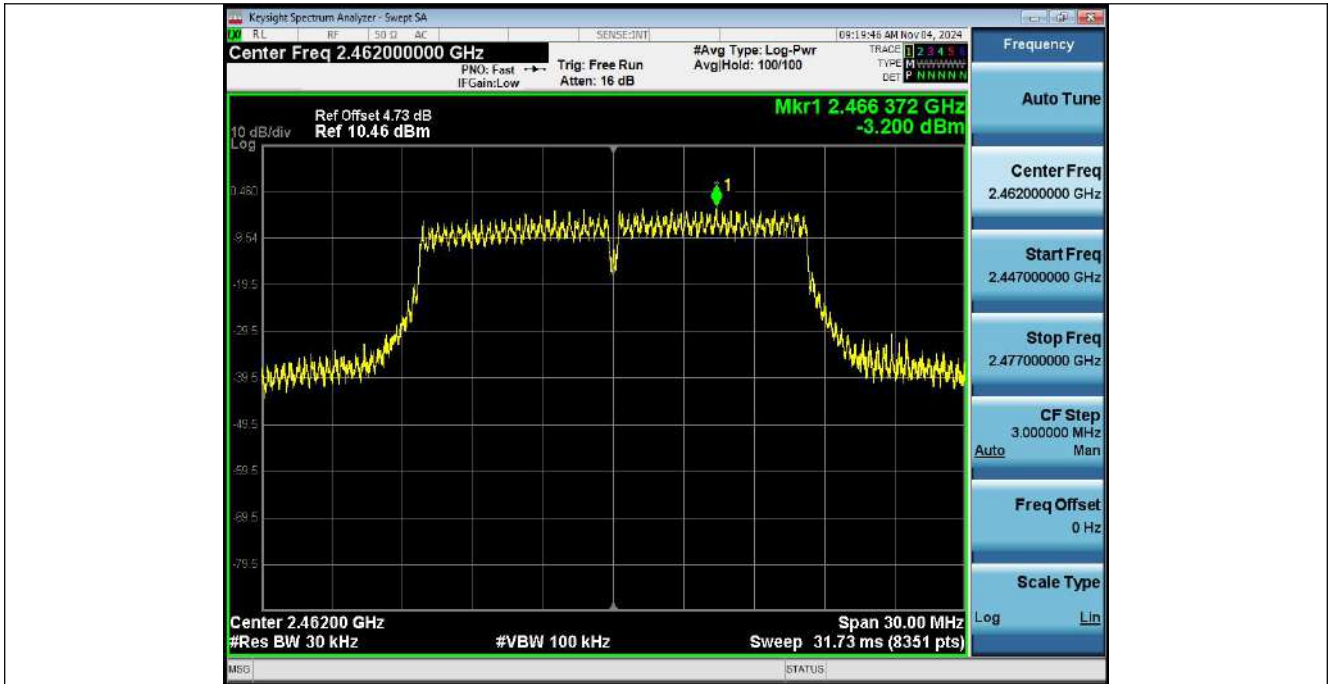
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



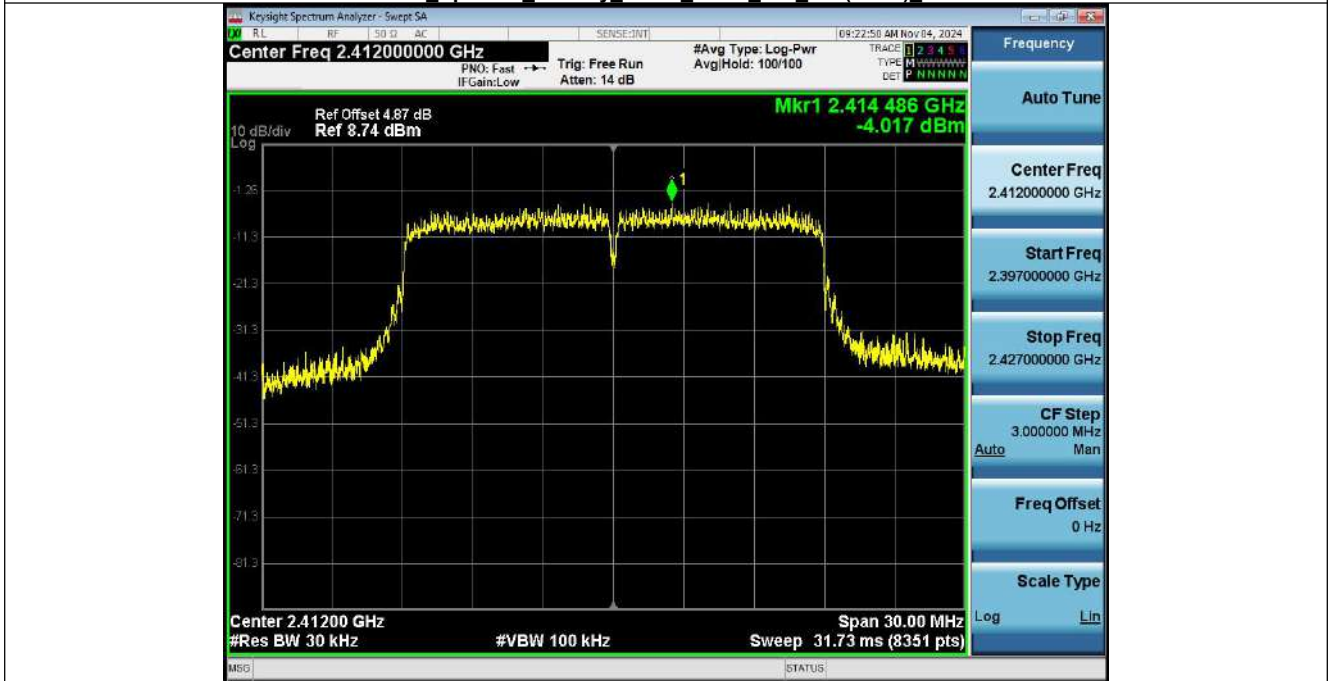
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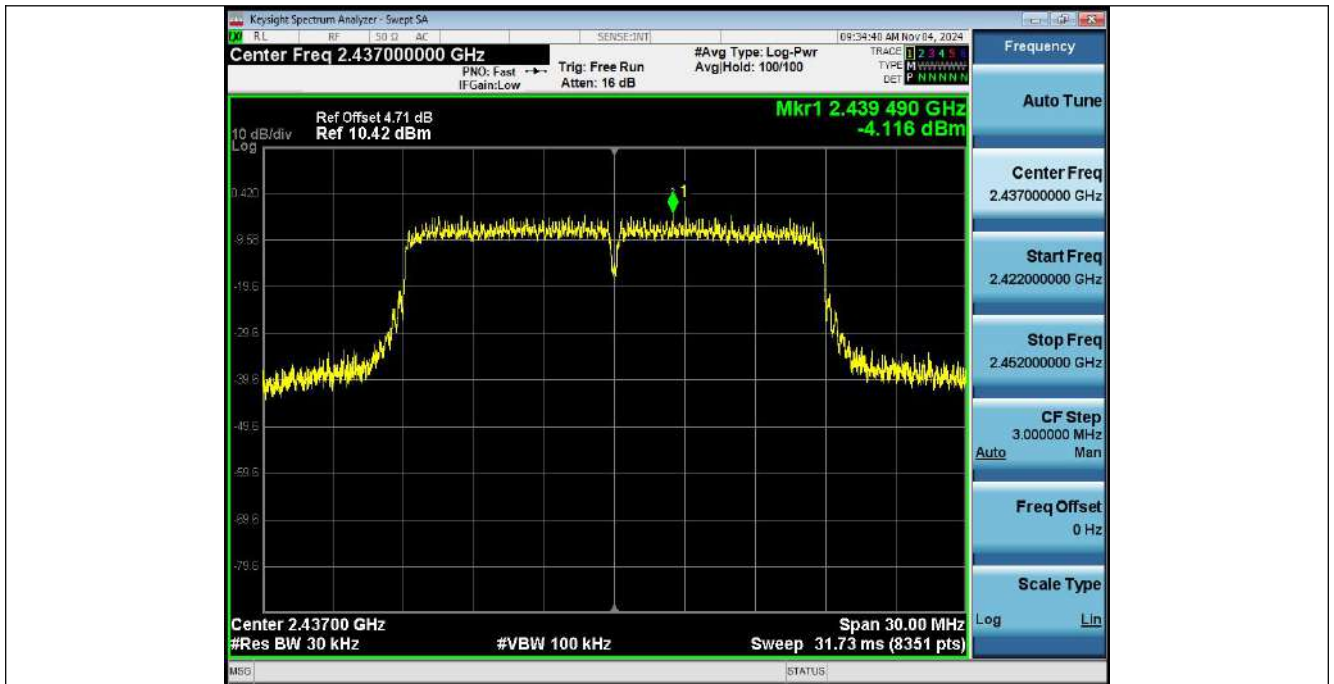
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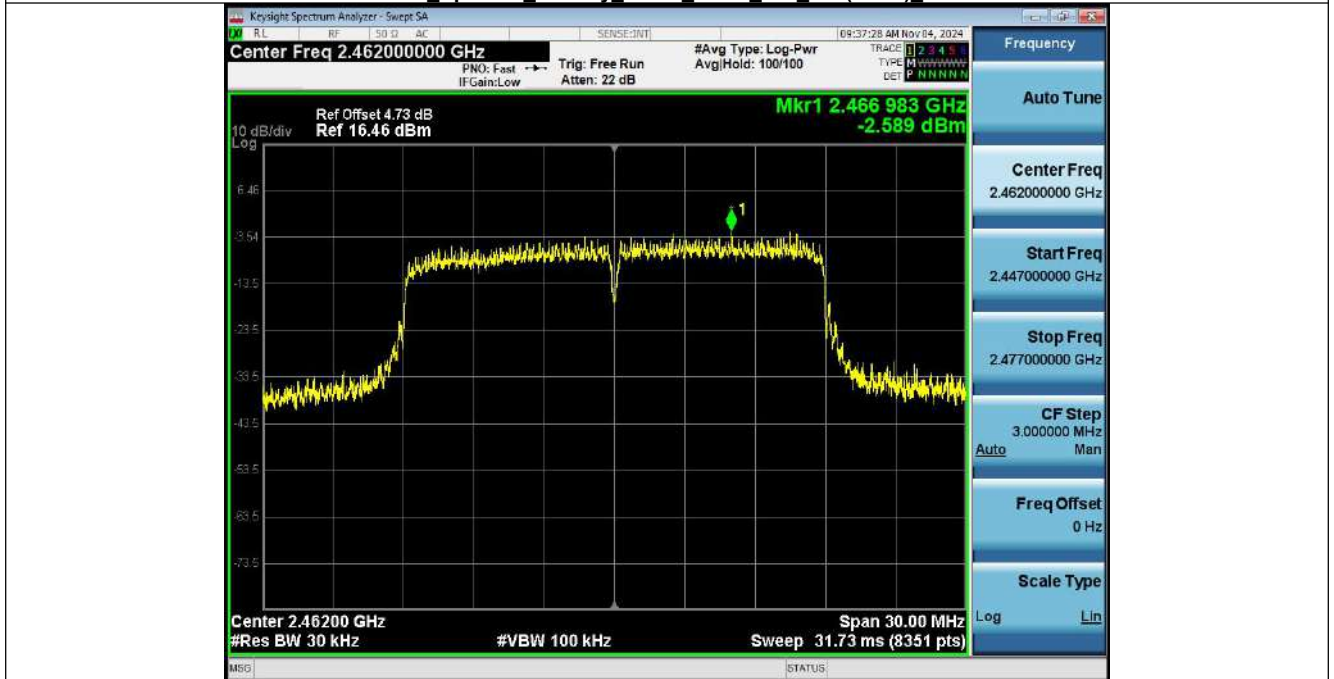
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power Spectral Density NVNT ANT1 802_11n(HT20)_2462

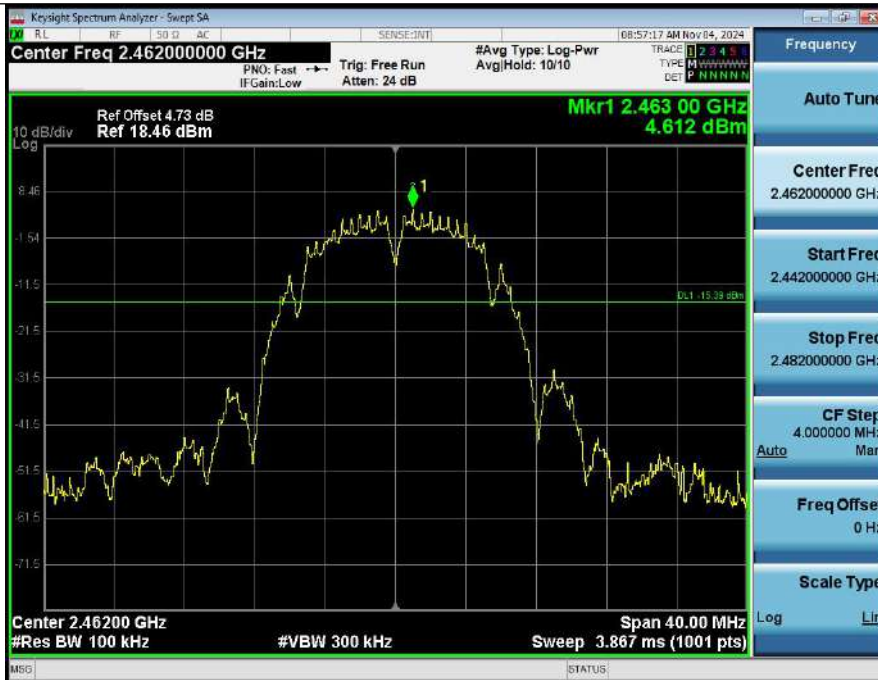


6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-47.536	-16.251	Pass
NVNT	ANT1	802.11b	2462.00	2485.456	-53.086	-15.388	Pass
NVNT	ANT1	802.11g	2412.00	2398.816	-31.392	-19.979	Pass
NVNT	ANT1	802.11g	2462.00	2483.920	-37.200	-18.305	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.600	-31.170	-19.432	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.680	-33.806	-18.022	Pass



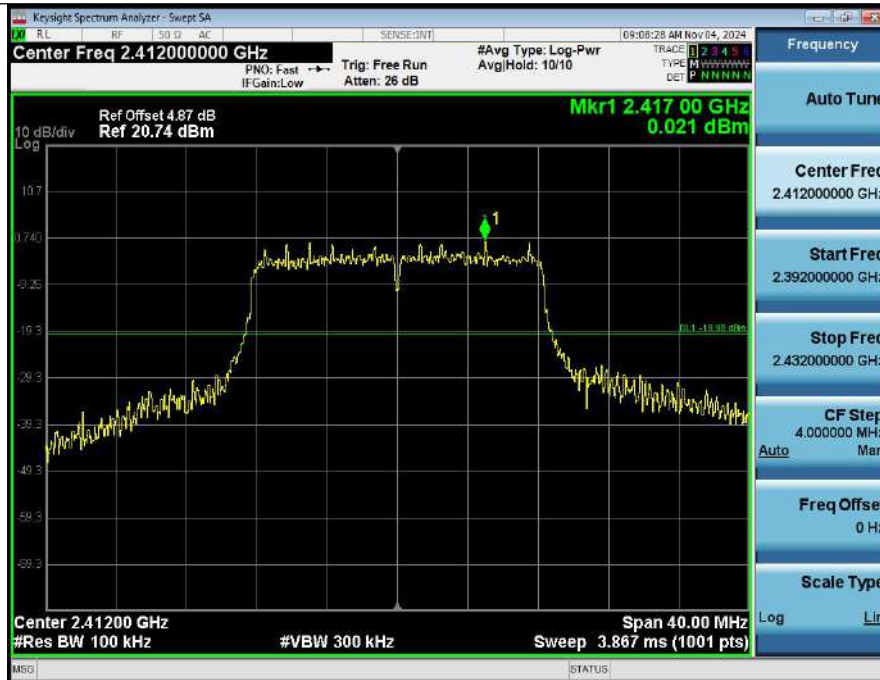
1 Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



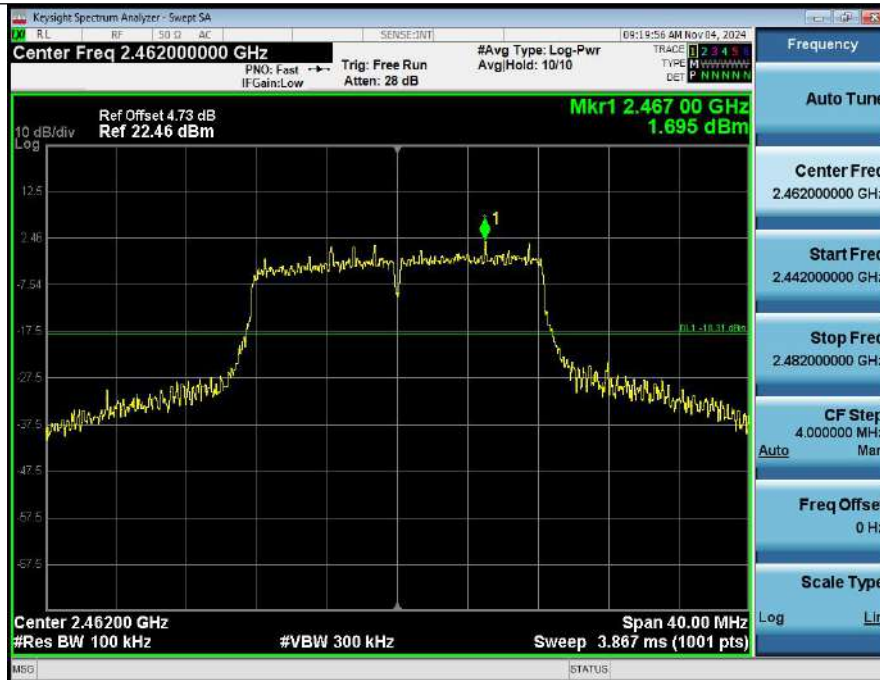
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2_Bandedge_NVNT_ANT1_802_11g_2412



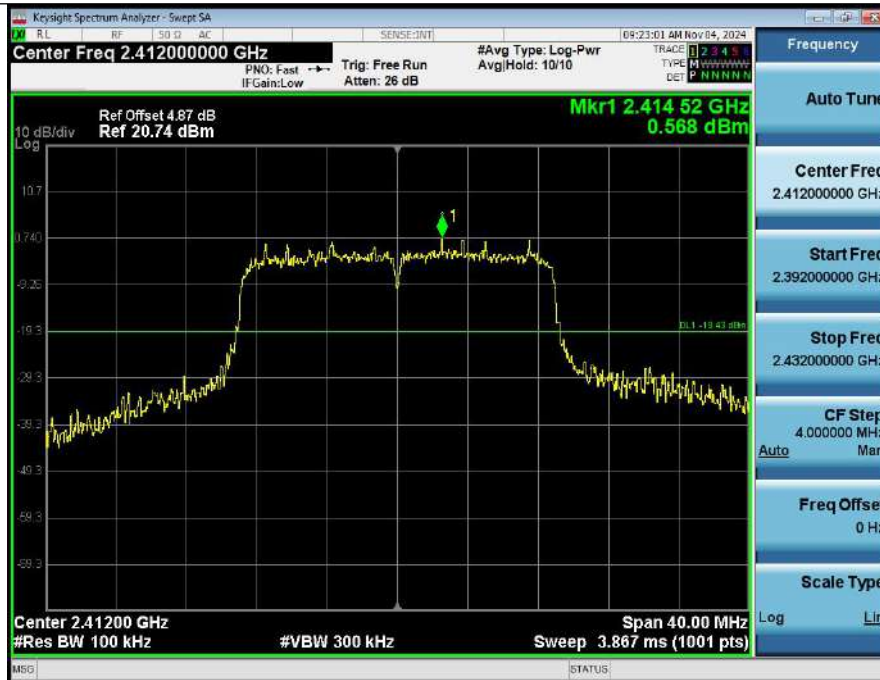
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2_Bandedge_NVNT_ANT1_802_11g_2462



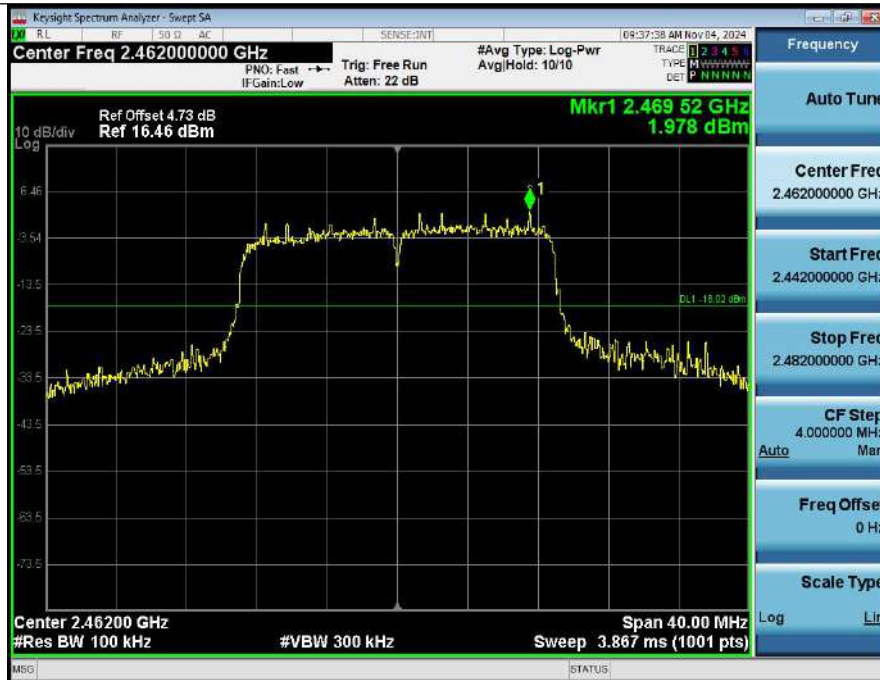
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



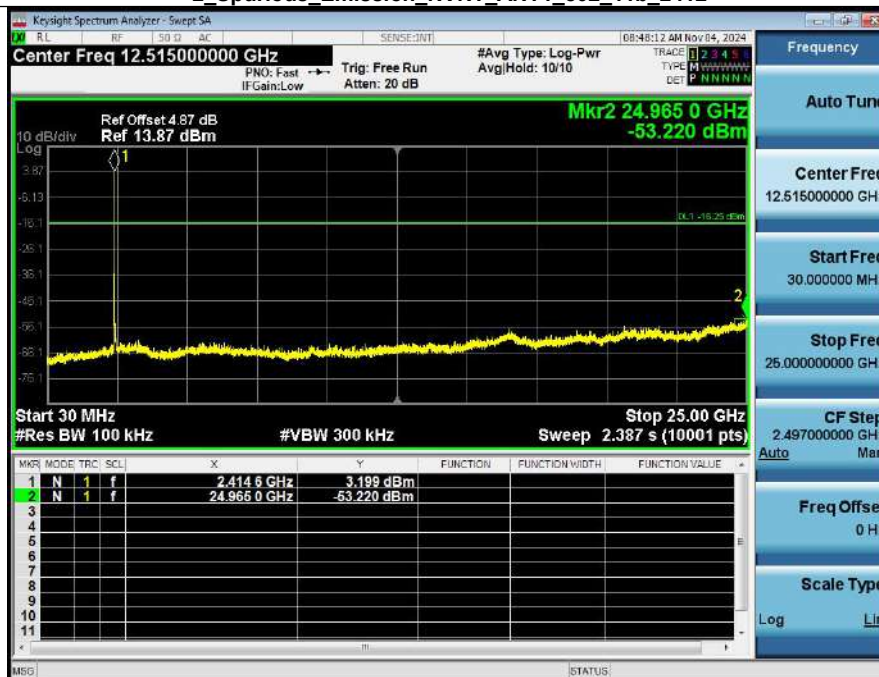
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24965.042	-53.220	-16.251	Pass
NVNT	ANT1	802.11b	2437.00	24987.515	-47.084	-16.464	Pass
NVNT	ANT1	802.11b	2462.00	24930.084	-53.286	-15.388	Pass
NVNT	ANT1	802.11g	2412.00	24905.114	-50.691	-19.979	Pass
NVNT	ANT1	802.11g	2437.00	24440.672	-50.816	-19.889	Pass
NVNT	ANT1	802.11g	2462.00	25000.000	-49.120	-18.305	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	829.040	-36.204	-19.432	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24955.054	-50.785	-19.436	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24940.072	-54.120	-18.022	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



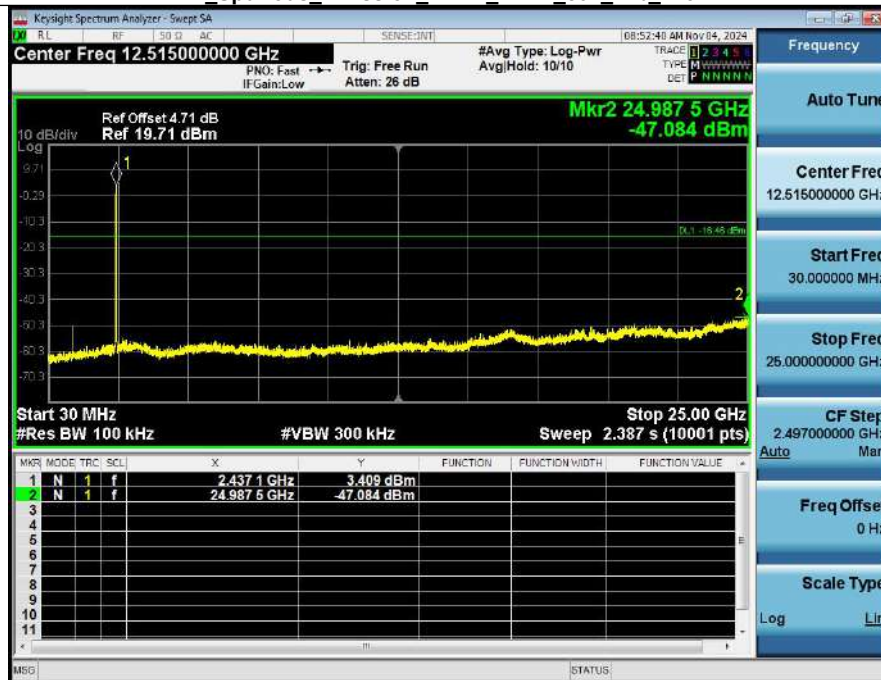
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1 Reference Level NVNT_ANT1_802_11b_2437



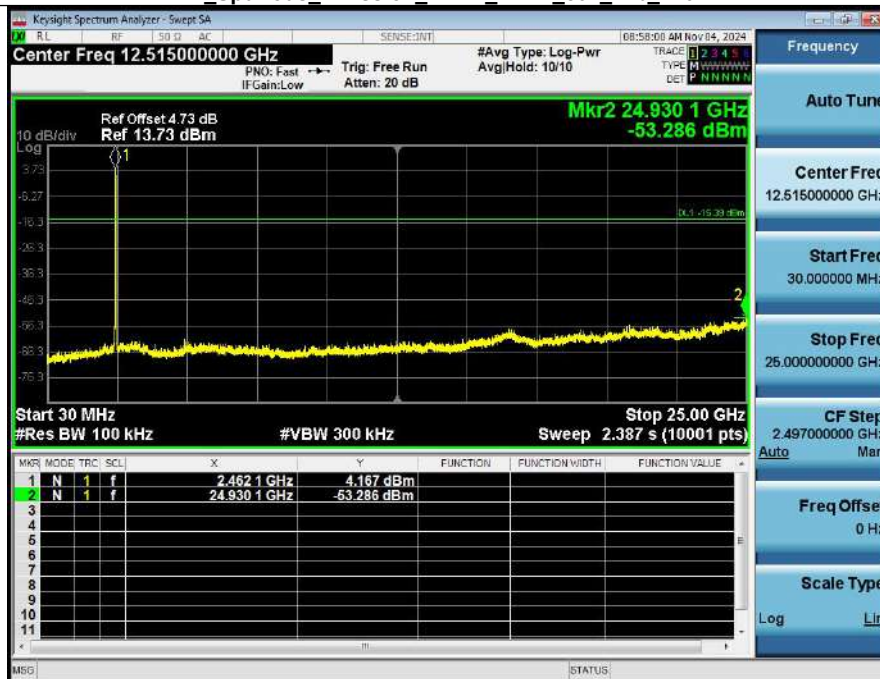
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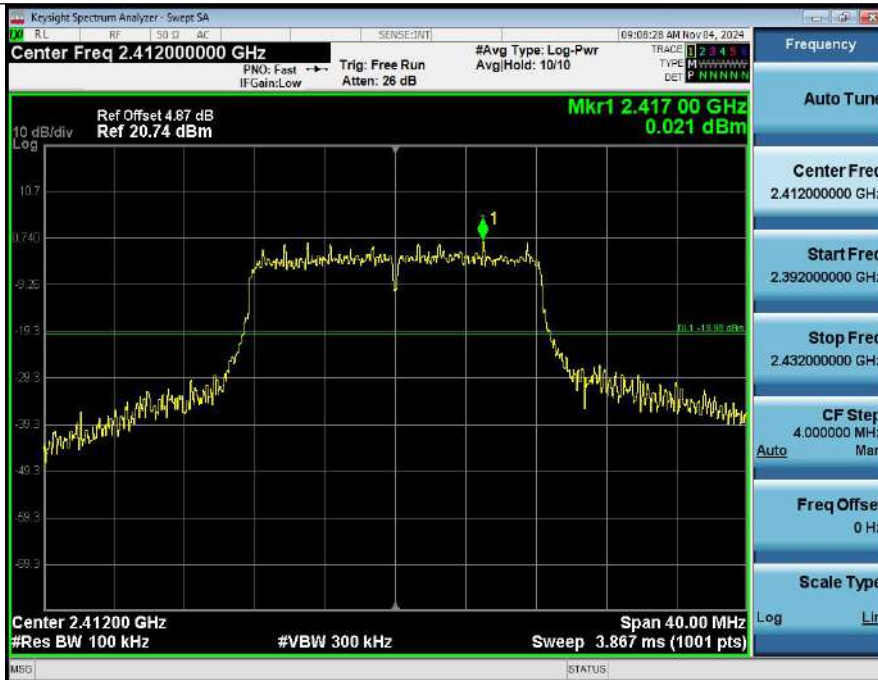
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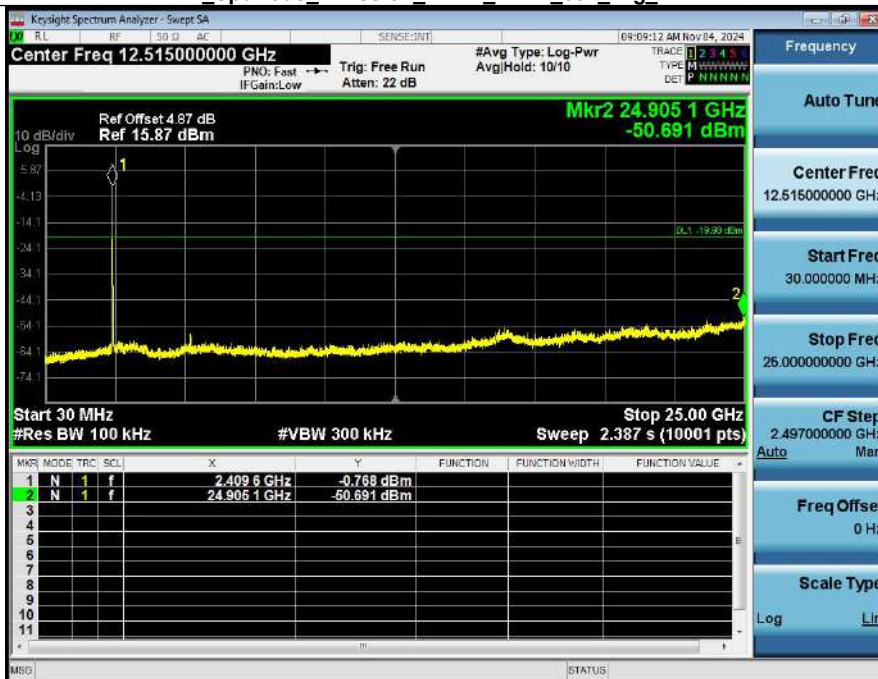
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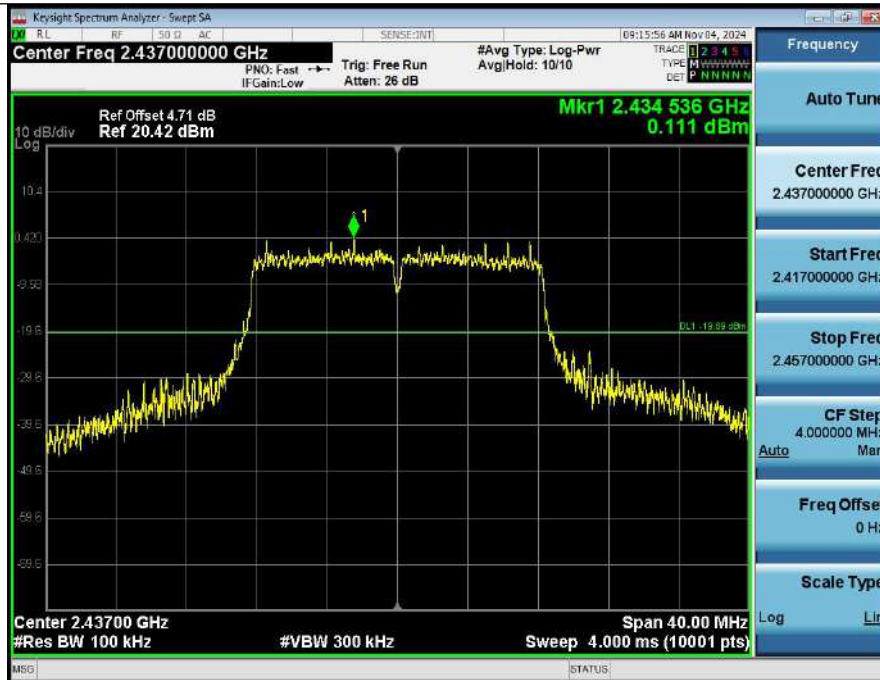
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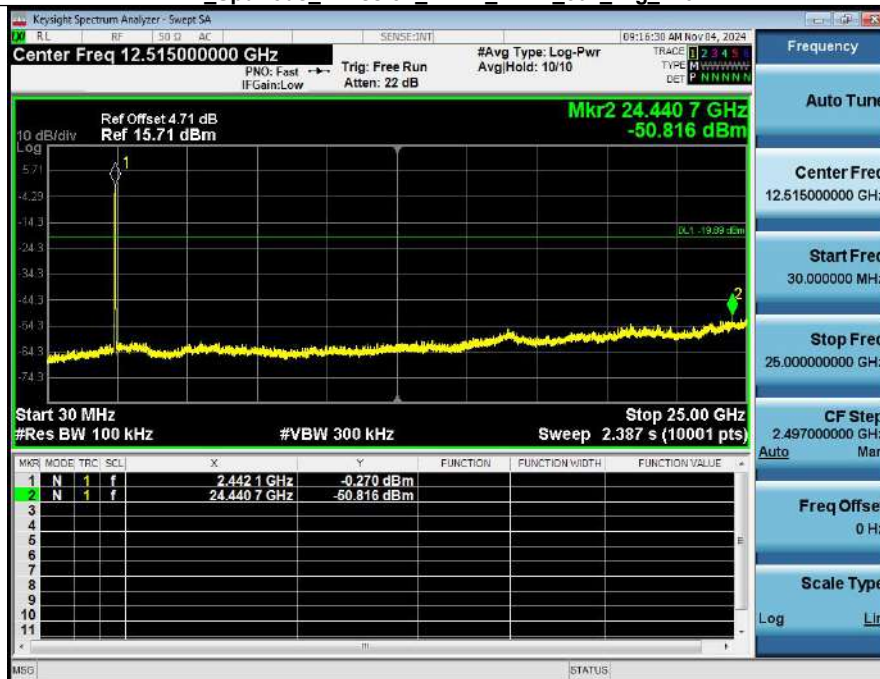
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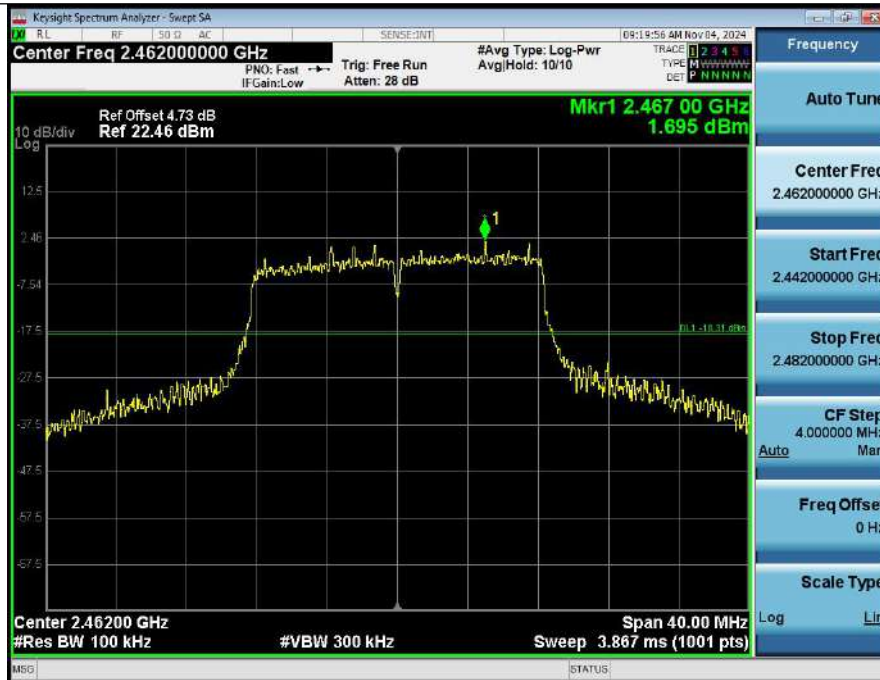
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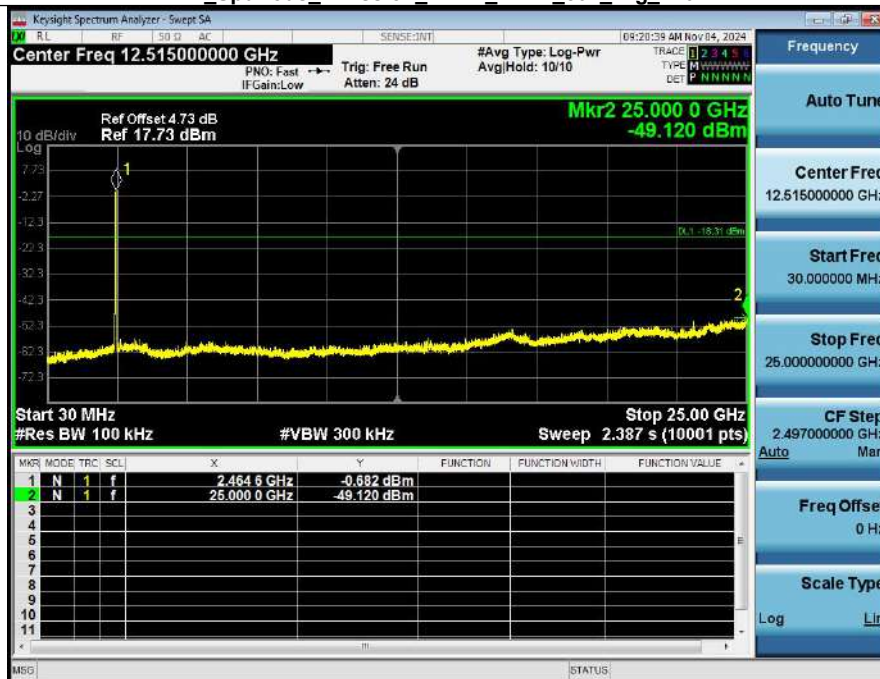
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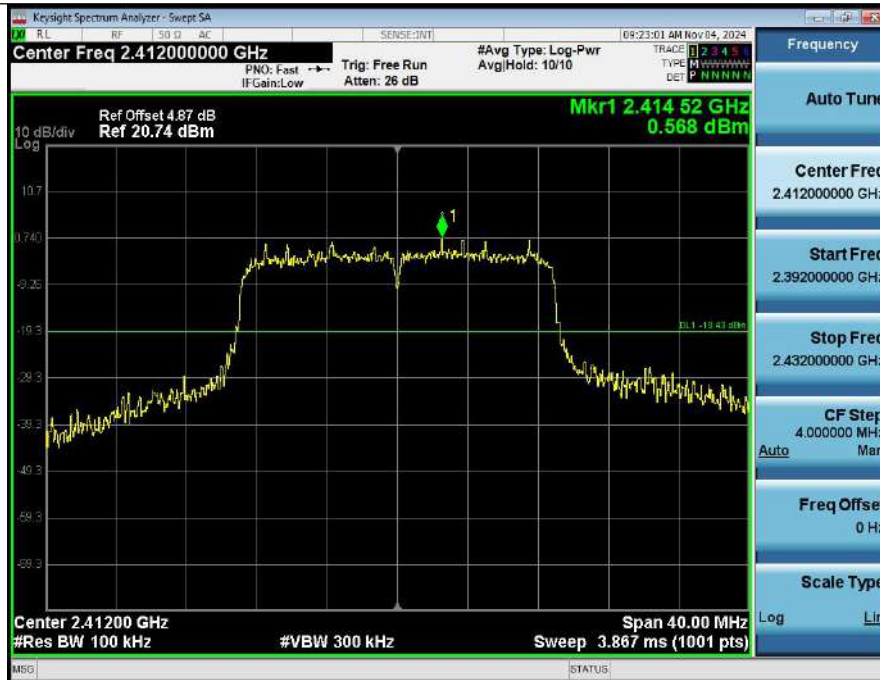
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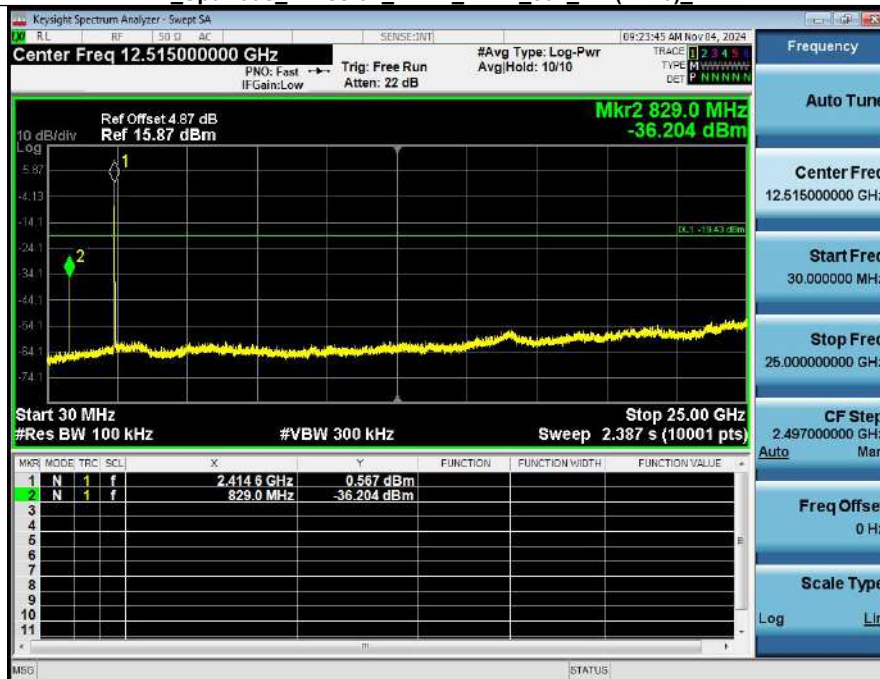
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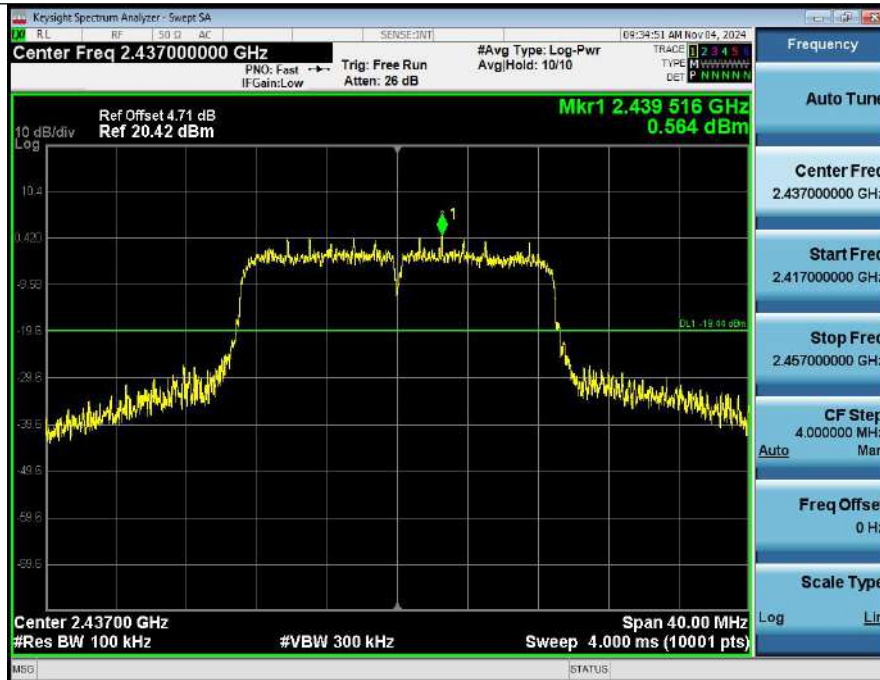
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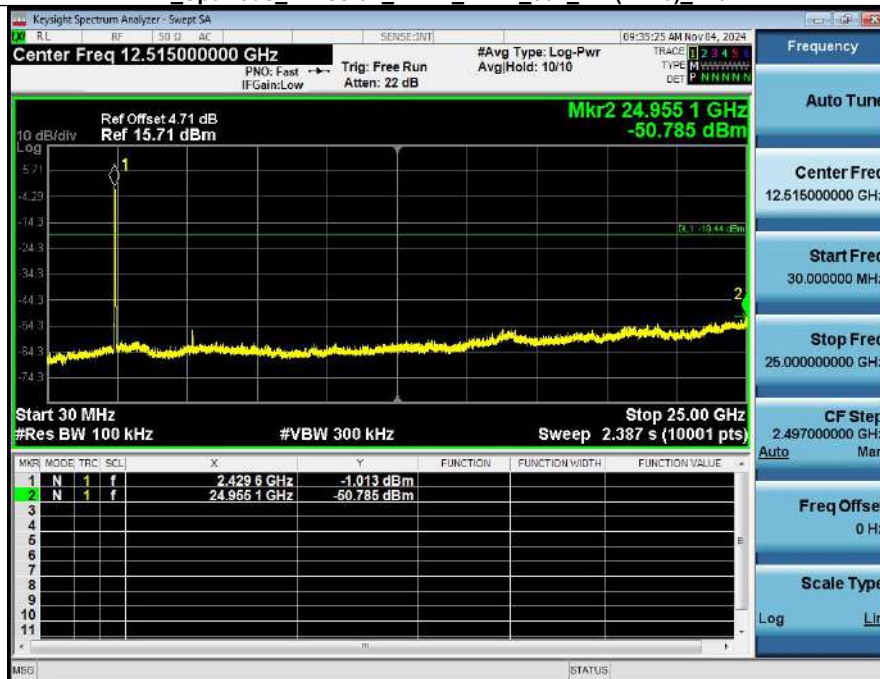
2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2412



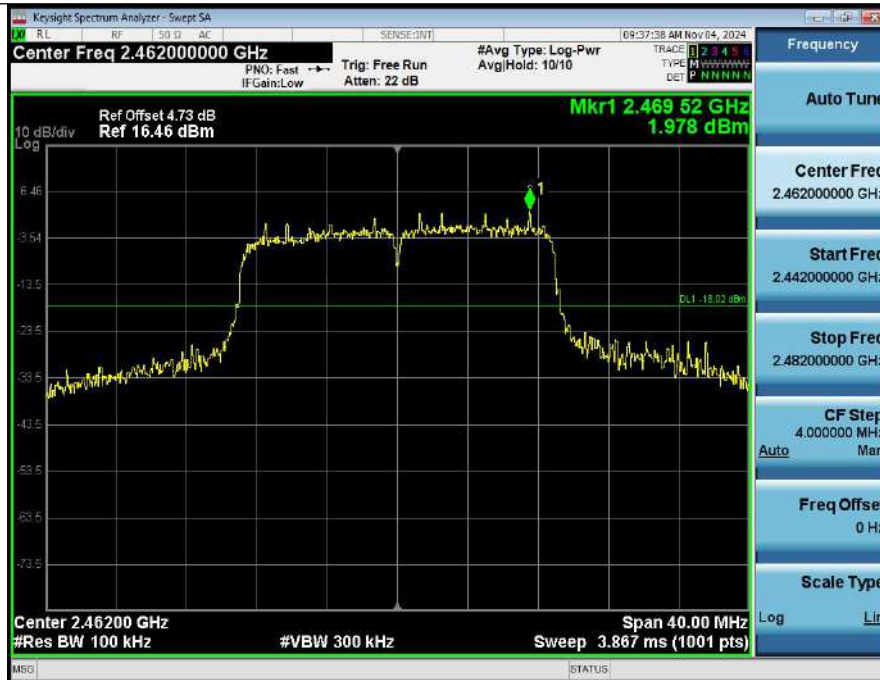
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2437



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

