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FCC ID WIFI2.4

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	8.61	500	Pass
NVNT	ANT1	802.11b	2437.00	8.59	500	Pass
NVNT	ANT1	802.11b	2462.00	8.58	500	Pass
NVNT	ANT1	802.11g	2412.00	16.12	500	Pass
NVNT	ANT1	802.11g	2437.00	16.35	500	Pass
NVNT	ANT1	802.11g	2462.00	16.11	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.13	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.38	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.04	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.87	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.01	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.82	500	Pass

-6dB Bandwidth_NVNT_ANT1_802_11b_2412



-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

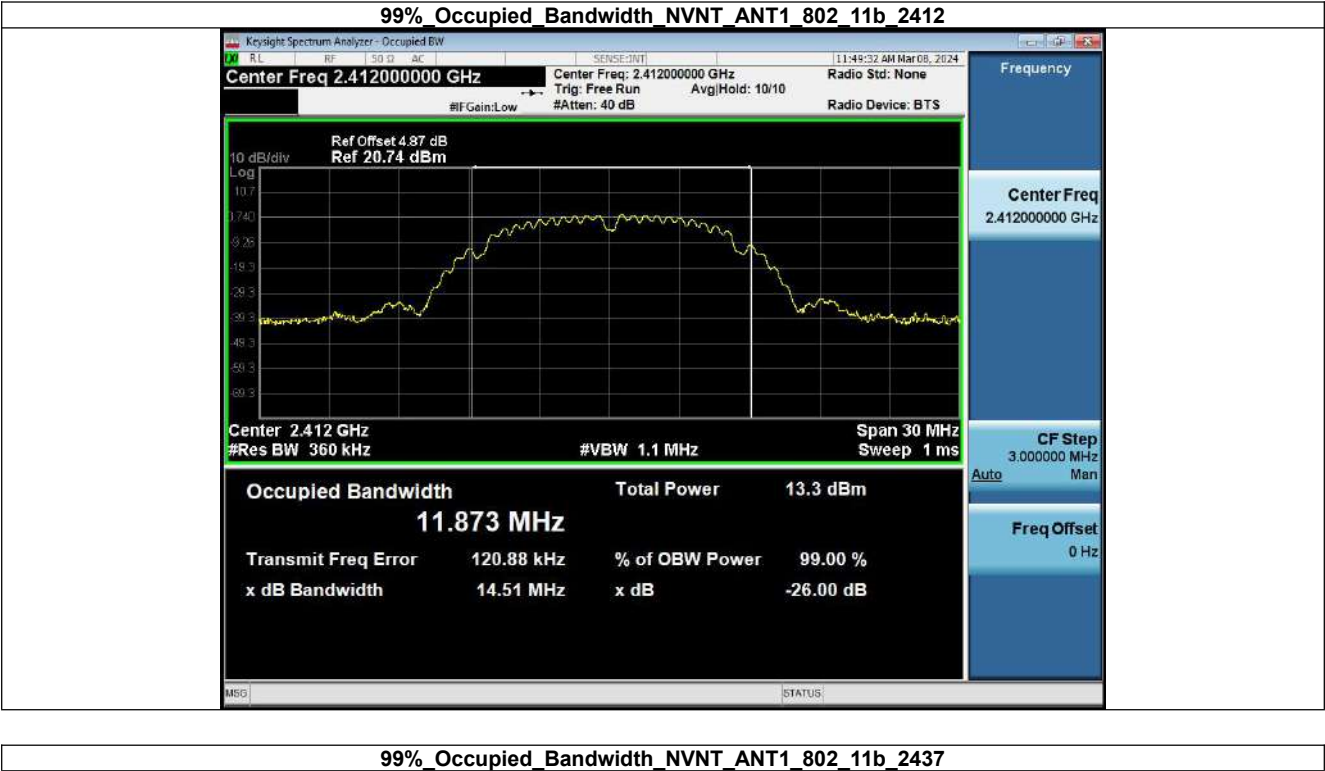


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.873
NVNT	ANT1	802.11b	2437.00	11.867
NVNT	ANT1	802.11b	2462.00	11.818
NVNT	ANT1	802.11g	2412.00	17.309
NVNT	ANT1	802.11g	2437.00	17.146
NVNT	ANT1	802.11g	2462.00	17.182
NVNT	ANT1	802.11n(HT20)	2412.00	17.936
NVNT	ANT1	802.11n(HT20)	2437.00	17.845
NVNT	ANT1	802.11n(HT20)	2462.00	17.848
NVNT	ANT1	802.11n(HT40)	2422.00	36.553
NVNT	ANT1	802.11n(HT40)	2437.00	36.519
NVNT	ANT1	802.11n(HT40)	2452.00	36.556



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

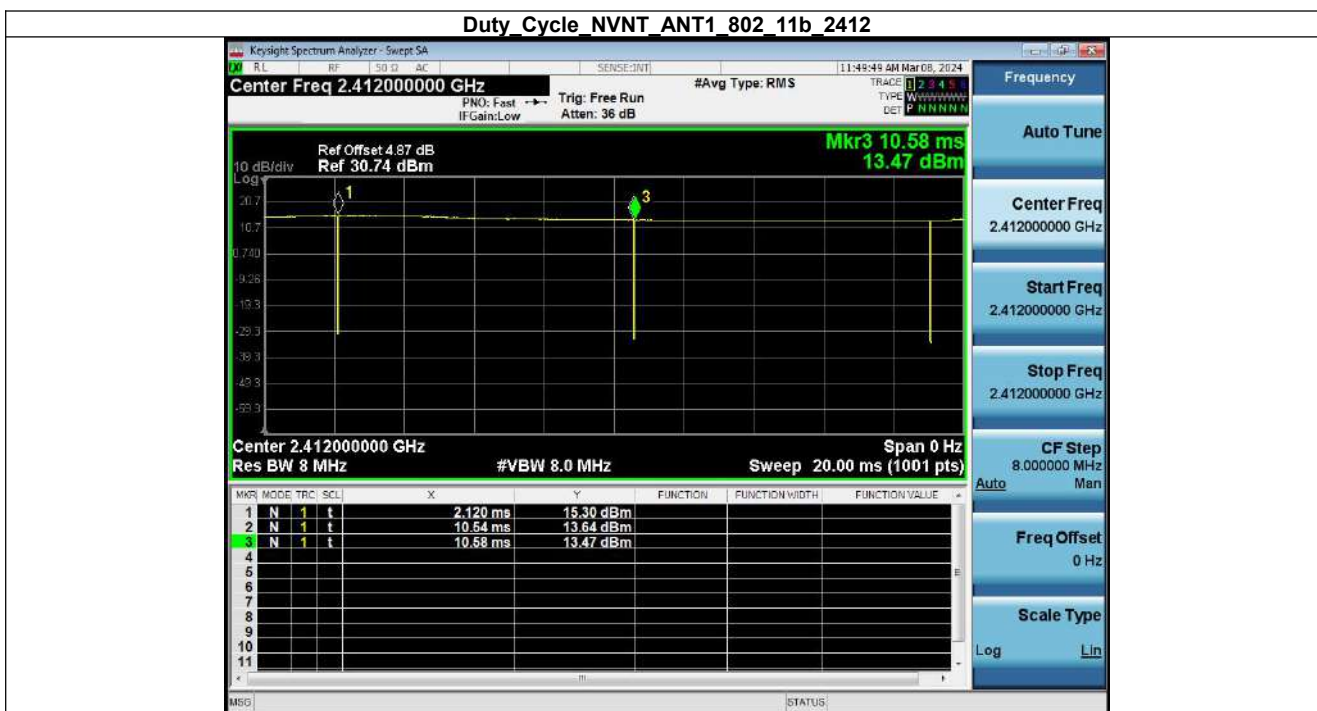


99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

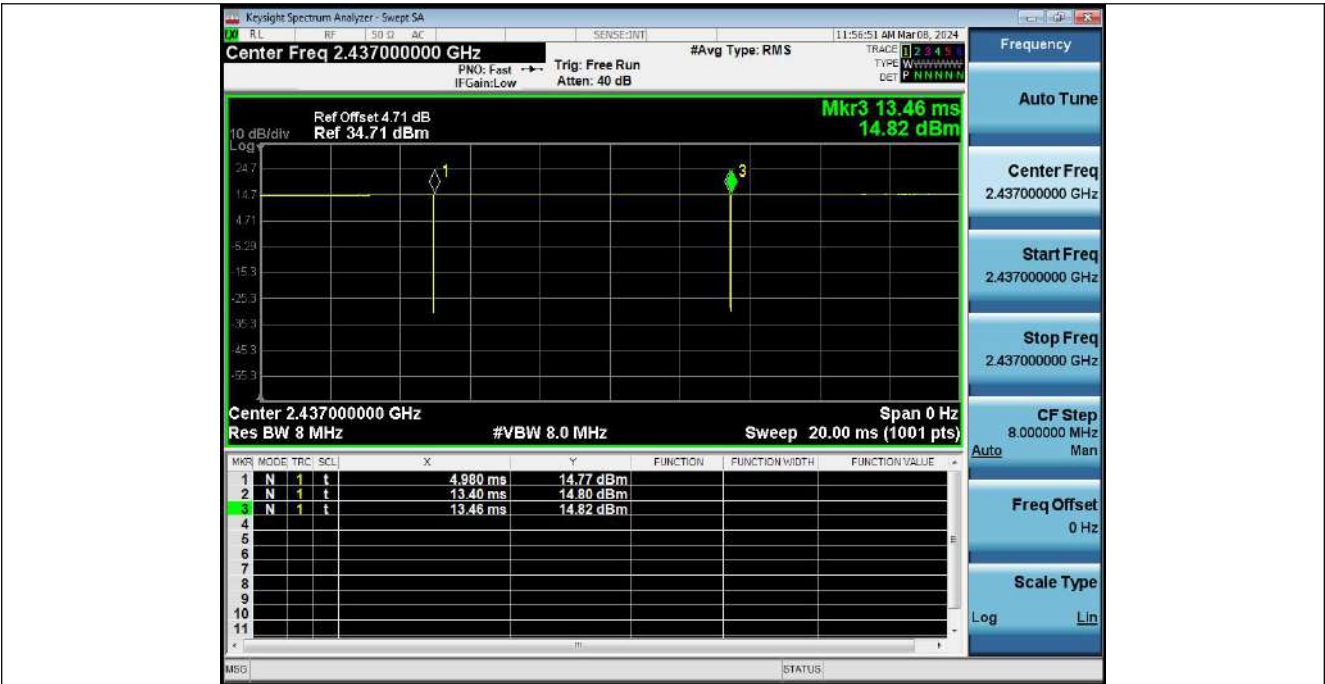


3. Duty Cycle

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	99.76	0.00
NVNT	ANT1	802.11g	2412.00	98.61	0.00
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	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
NVNT	ANT1	802.11n(HT40)	2422.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2437.00	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



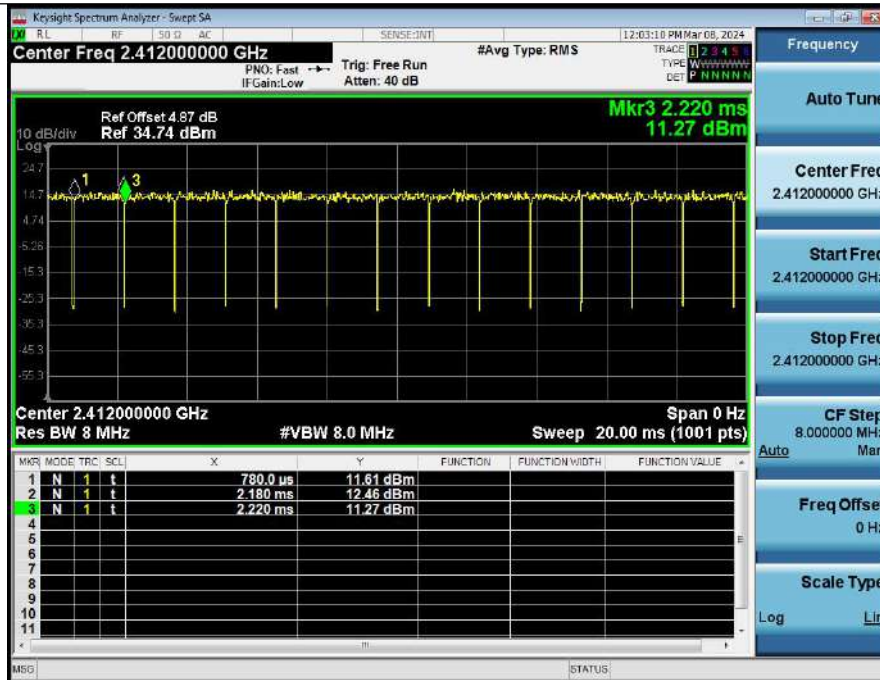
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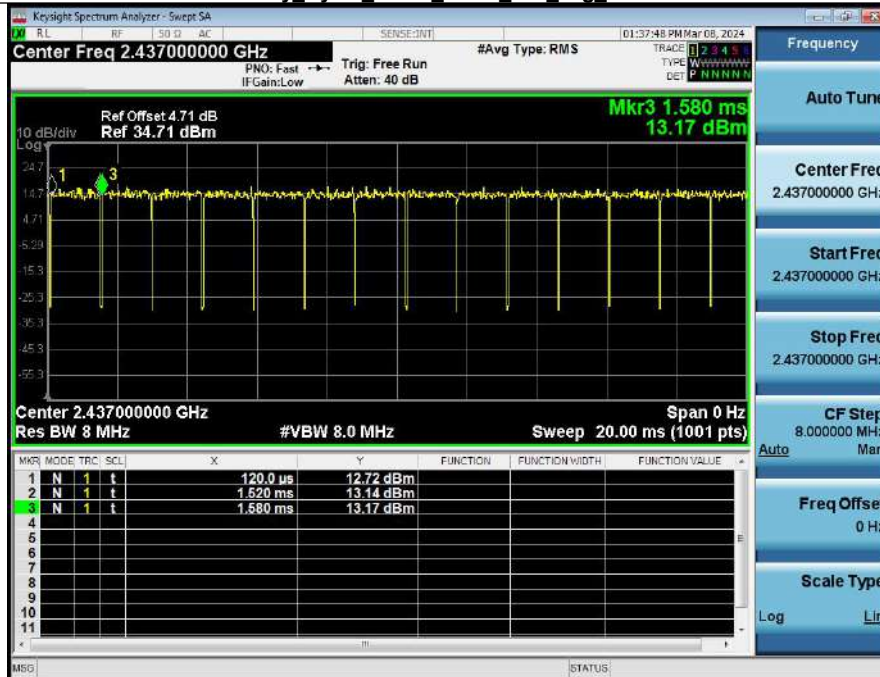
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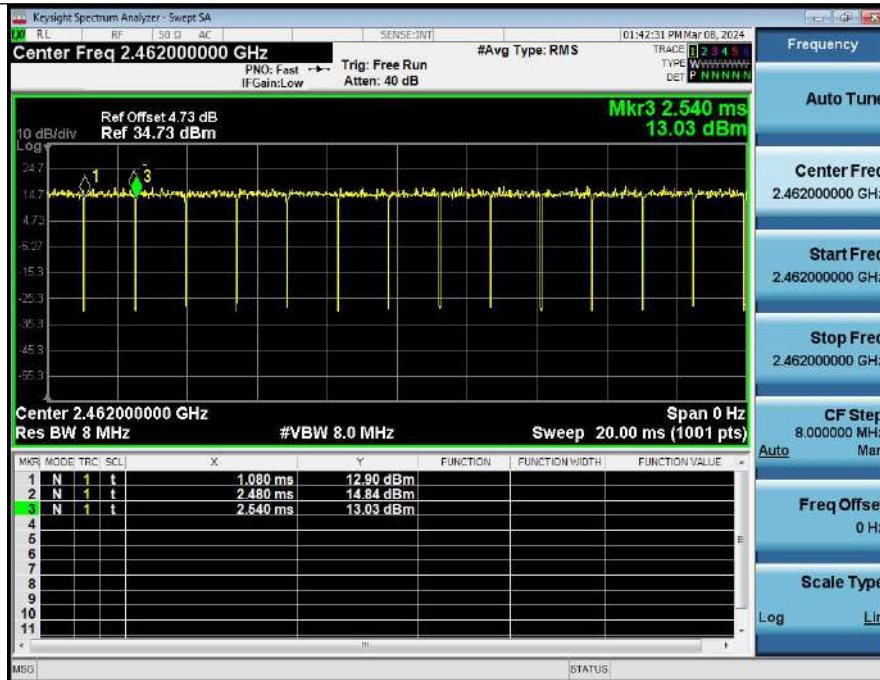
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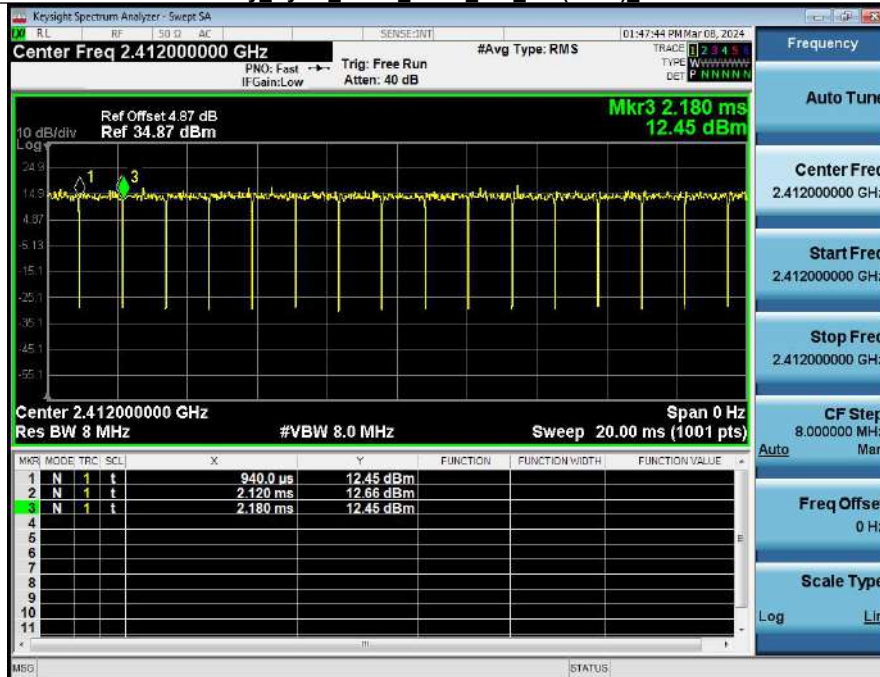
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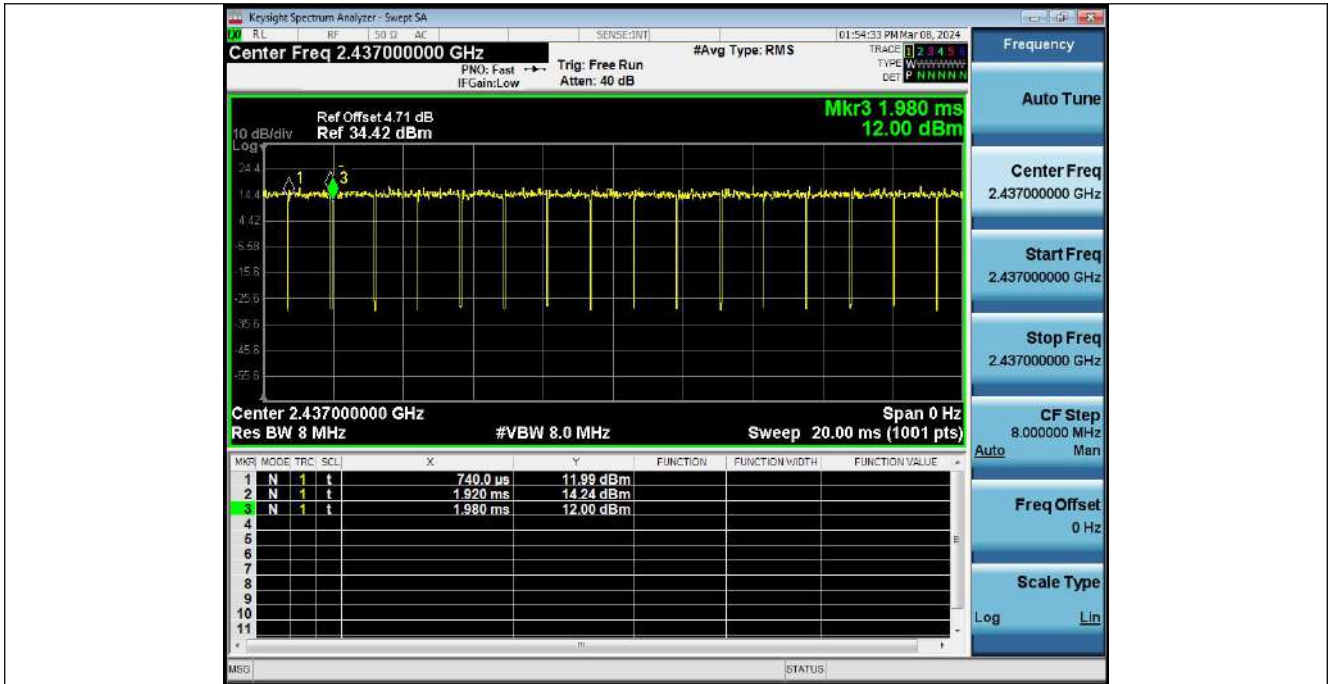
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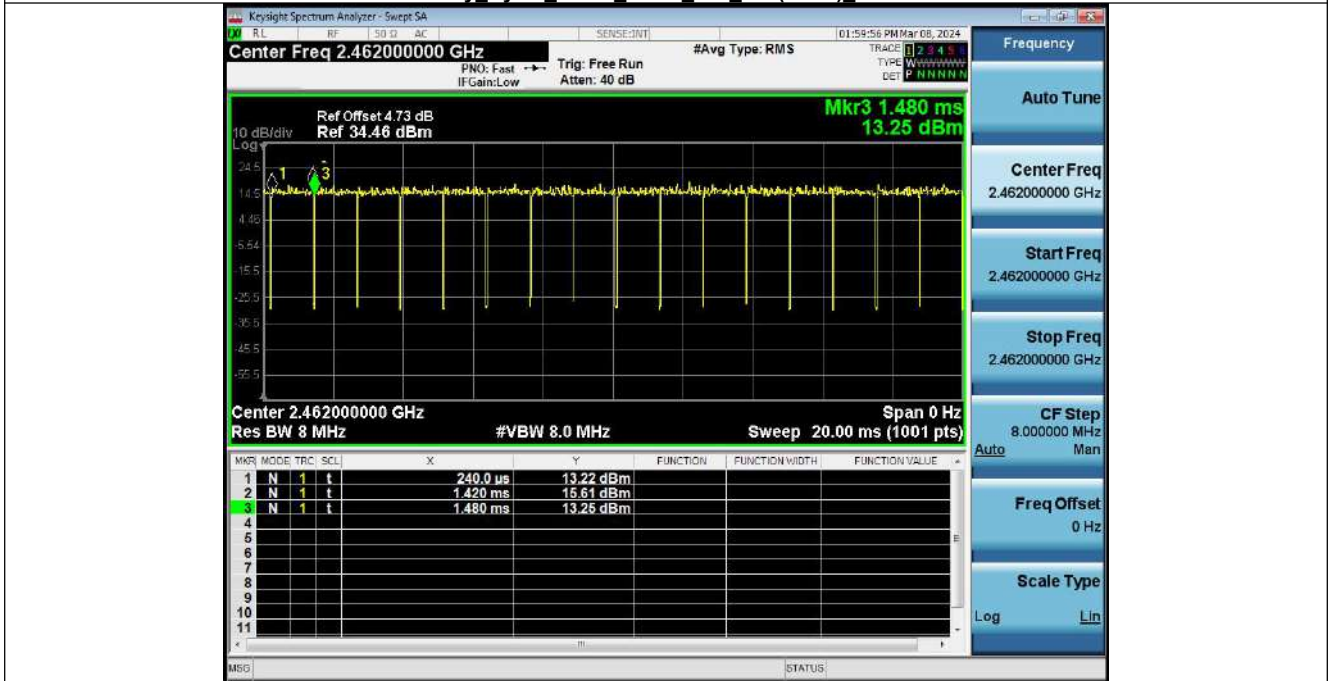
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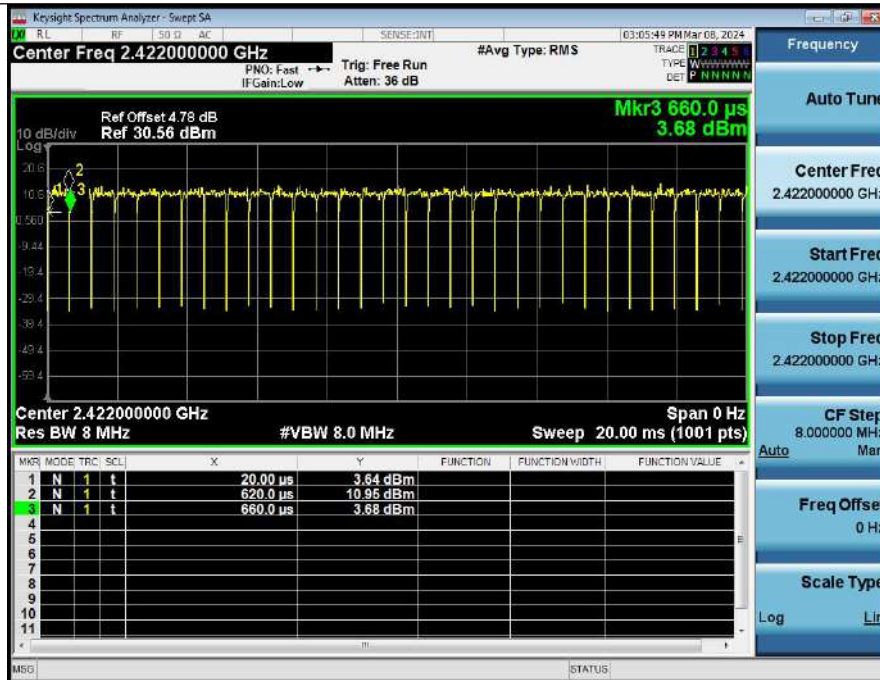
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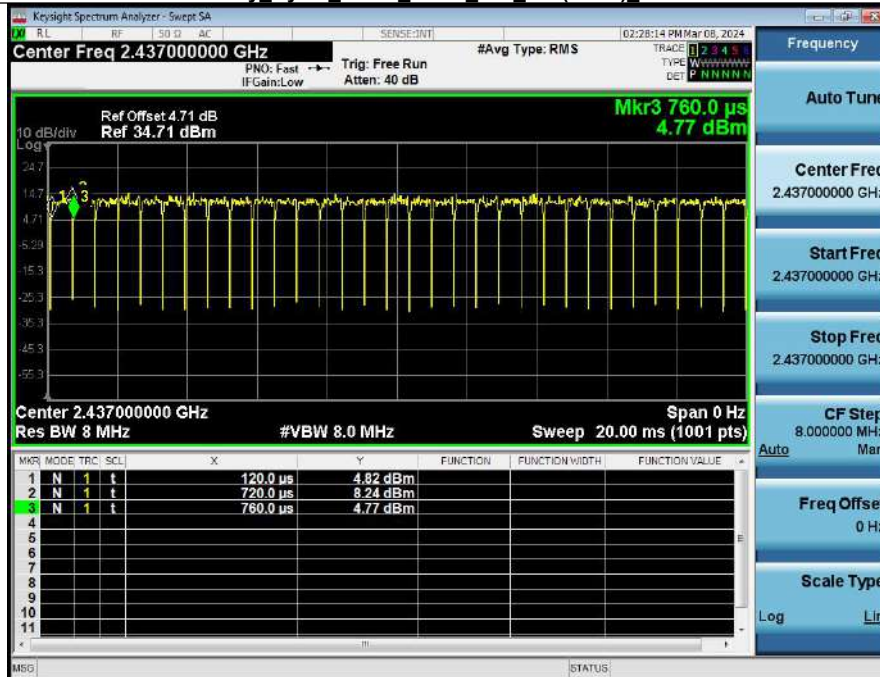
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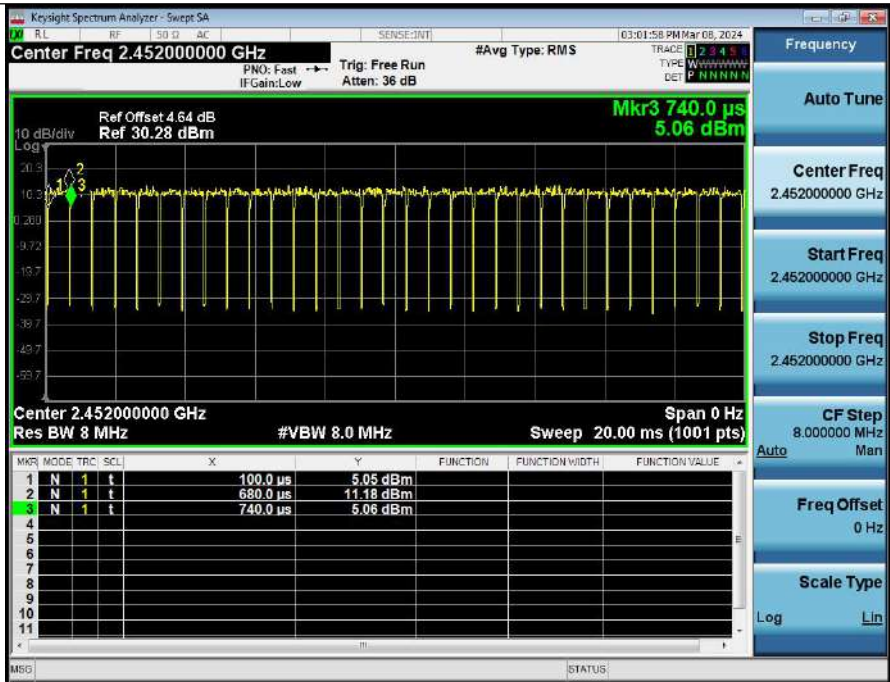
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	12.89	N/A	12.89	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	13.55	N/A	13.55	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	14.08	N/A	14.08	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	17.35	N/A	17.35	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	17.93	N/A	17.93	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	18.57	N/A	18.57	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	17.88	N/A	17.88	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	18.57	N/A	18.57	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	19.26	N/A	19.26	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	18.74	N/A	18.74	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	18.71	N/A	18.71	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	18.55	N/A	18.55	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-0.16	N/A	-10.00	-10.16	8	Pass
NVNT	ANT1	802.11b	2437.00	-2.08	N/A	-10.00	-12.08	8	Pass
NVNT	ANT1	802.11b	2462.00	2.35	N/A	-10.00	-7.65	8	Pass
NVNT	ANT1	802.11g	2412.00	-6.12	N/A	-10.00	-16.12	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.88	N/A	-10.00	-15.88	8	Pass
NVNT	ANT1	802.11g	2462.00	-5.34	N/A	-10.00	-15.34	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-5.92	N/A	-10.00	-15.92	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.46	N/A	-10.00	-15.46	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.75	N/A	-10.00	-14.75	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.97	N/A	-10.00	-17.97	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-8.78	N/A	-10.00	-18.78	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-8.66	N/A	-10.00	-18.66	8	Pass



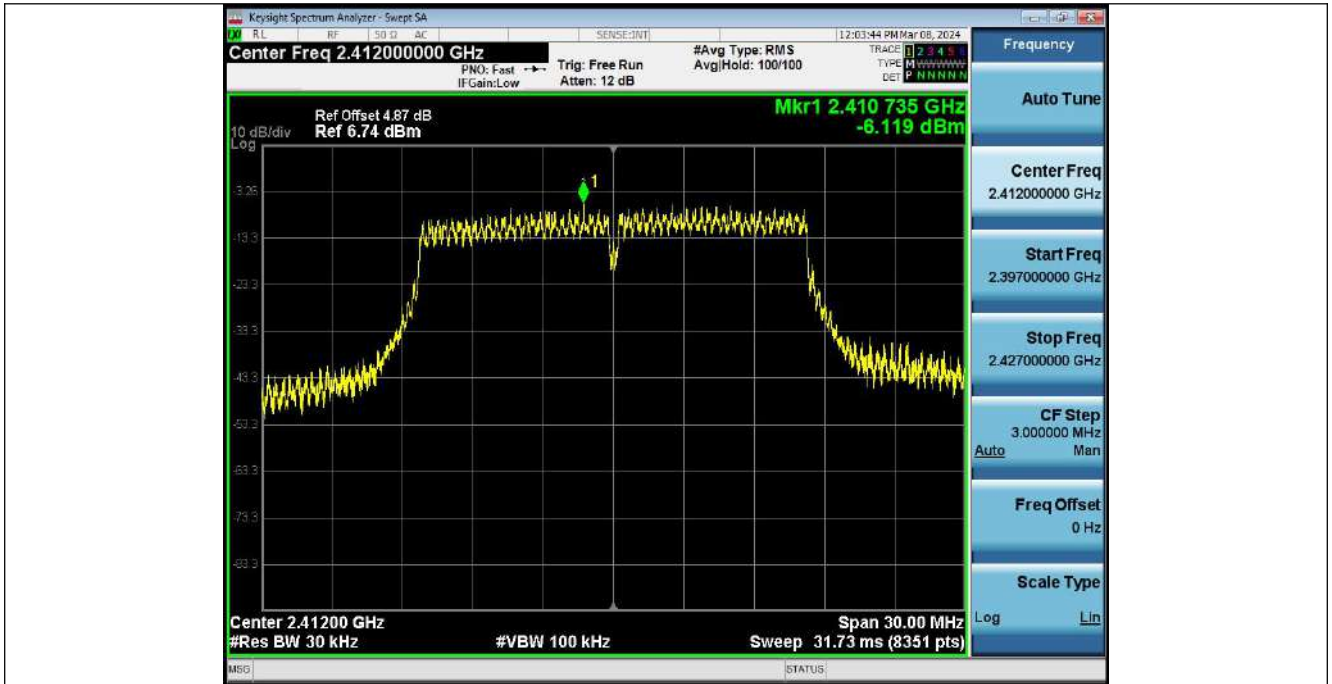
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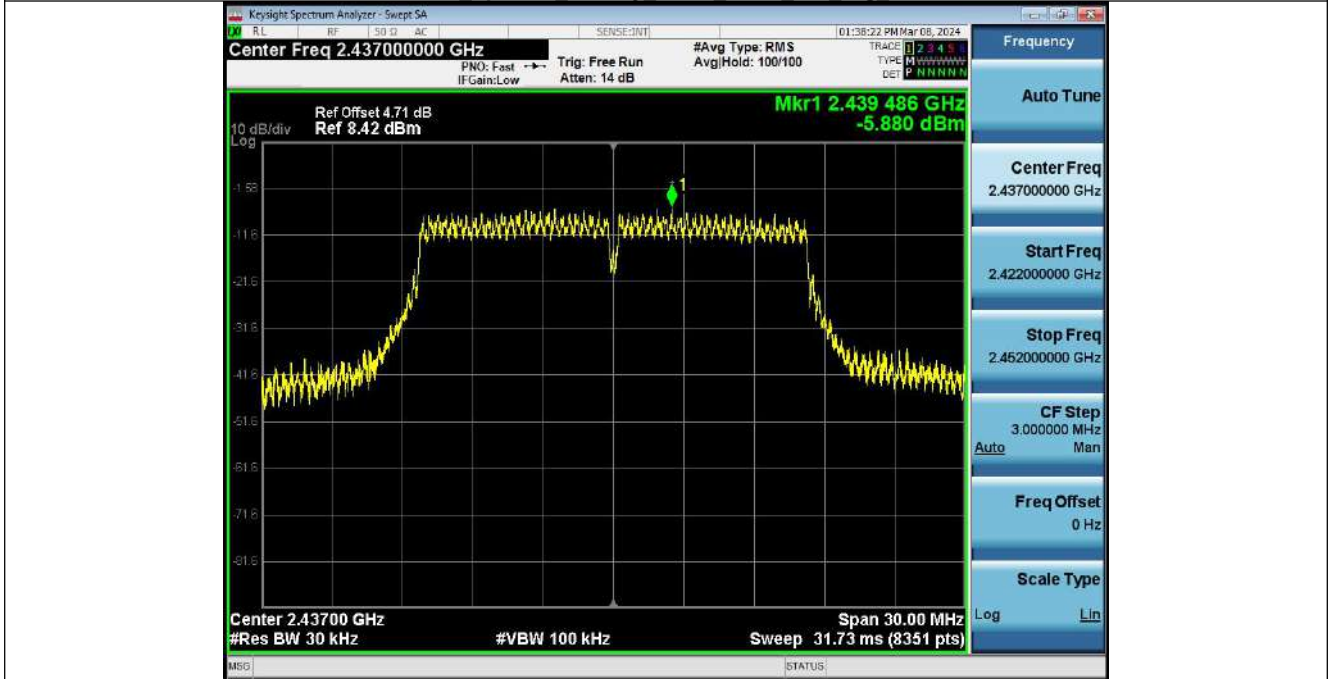
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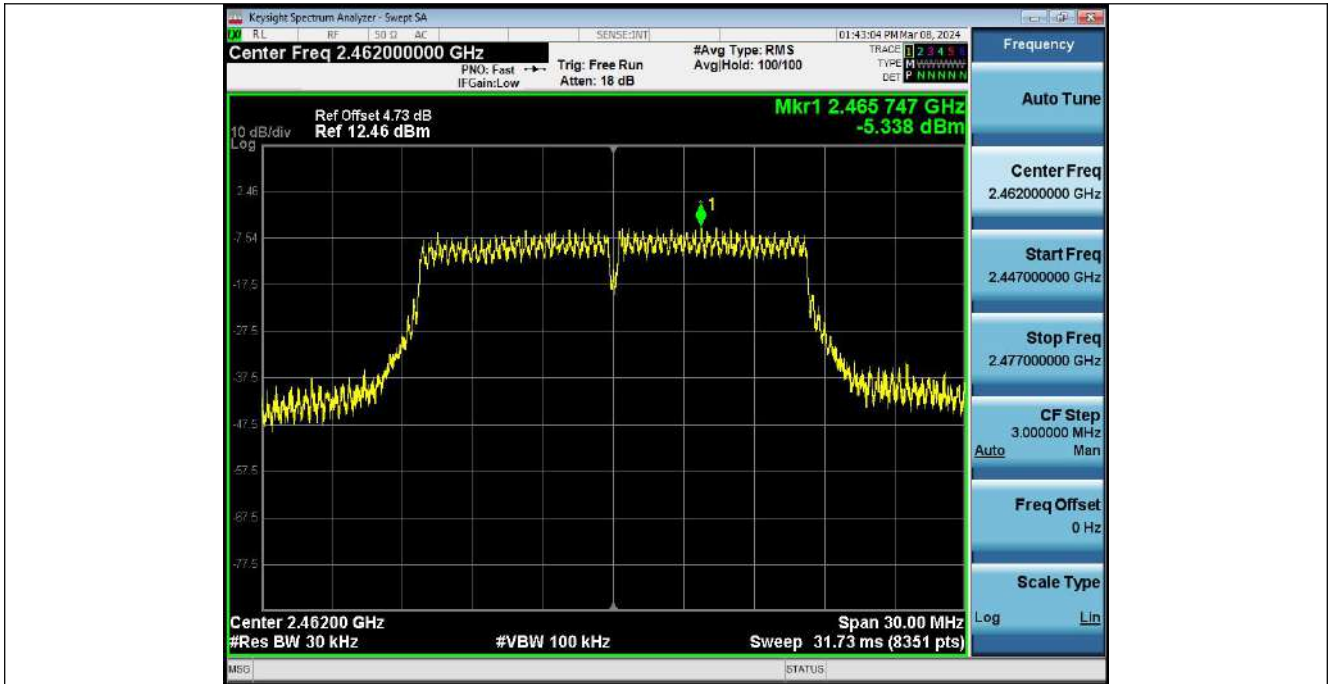
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



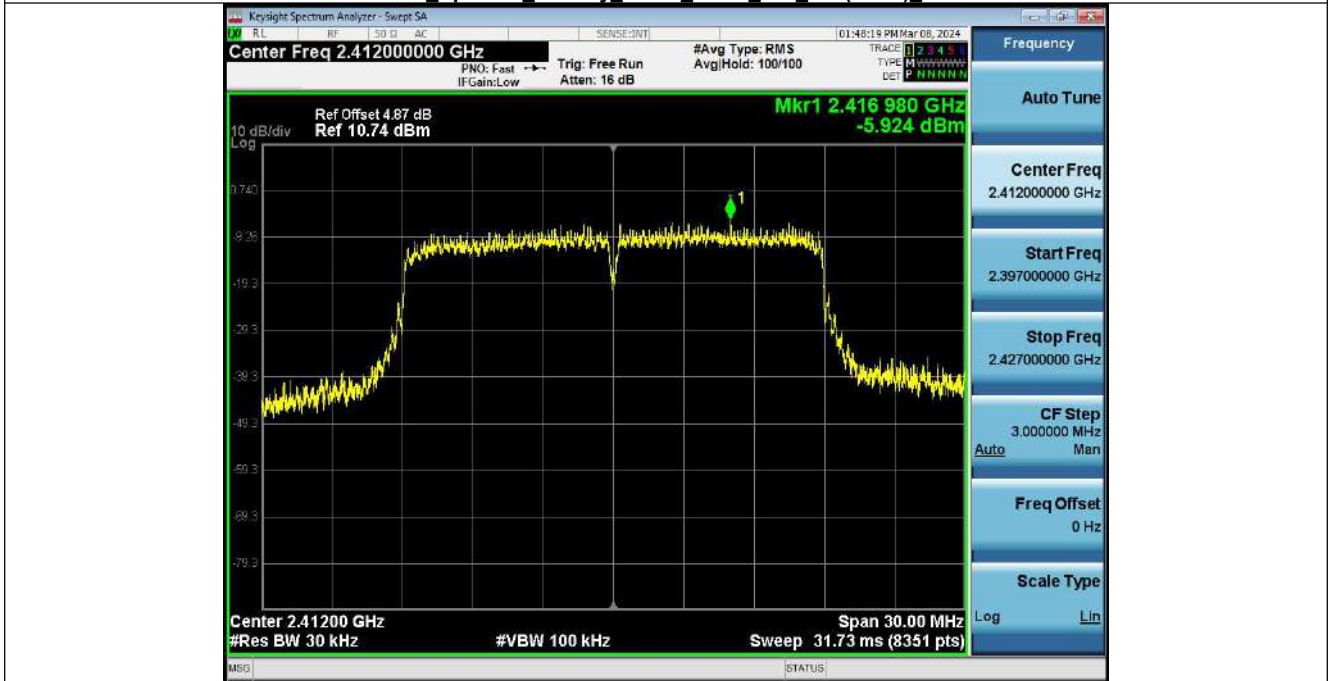
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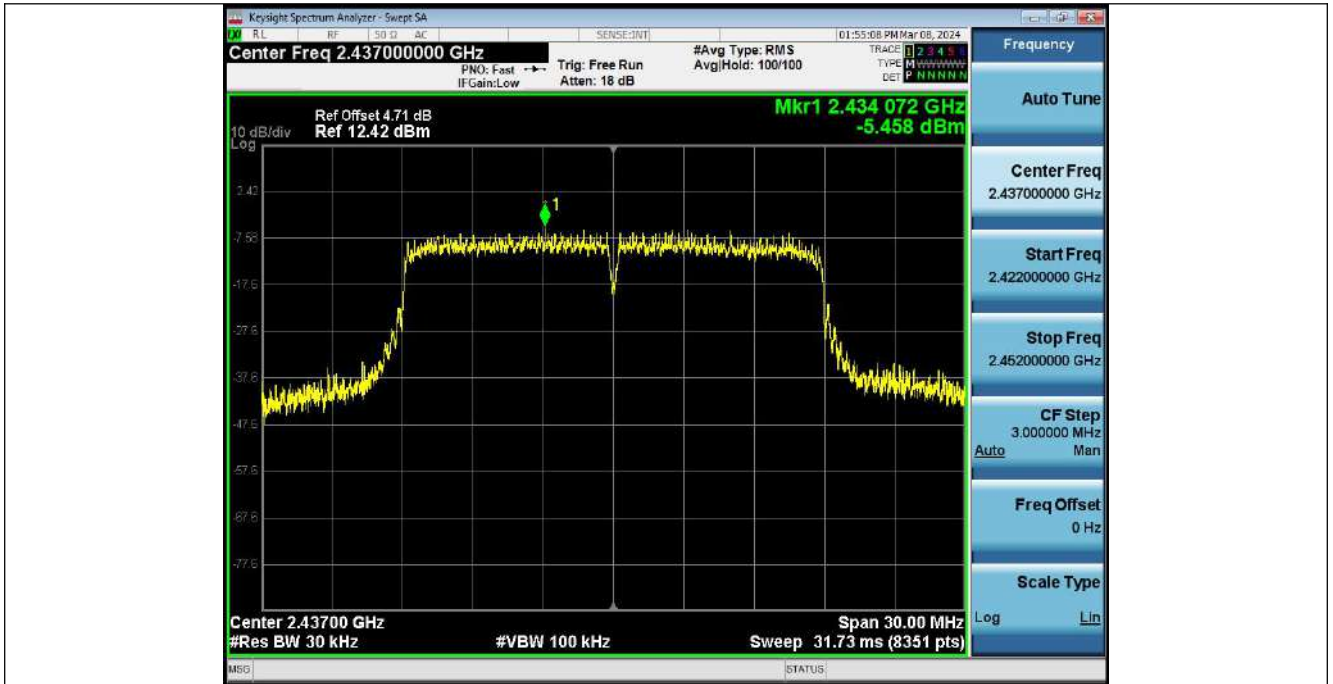
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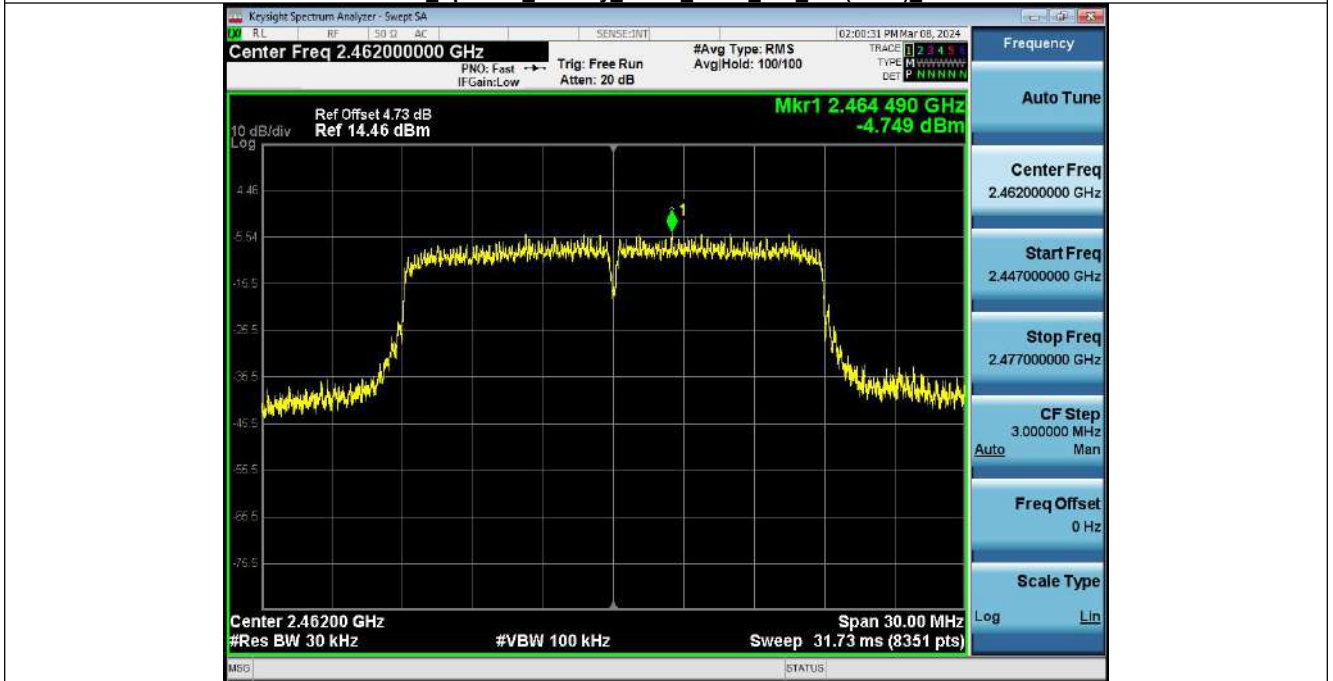
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



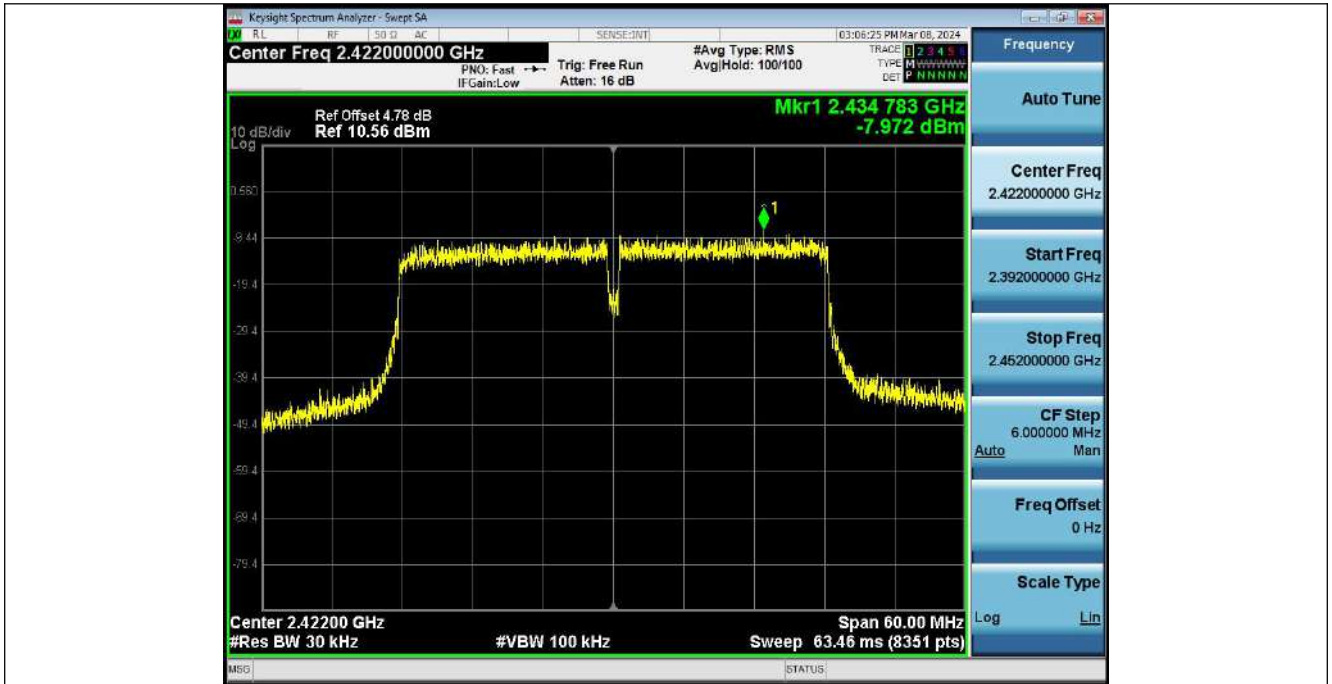
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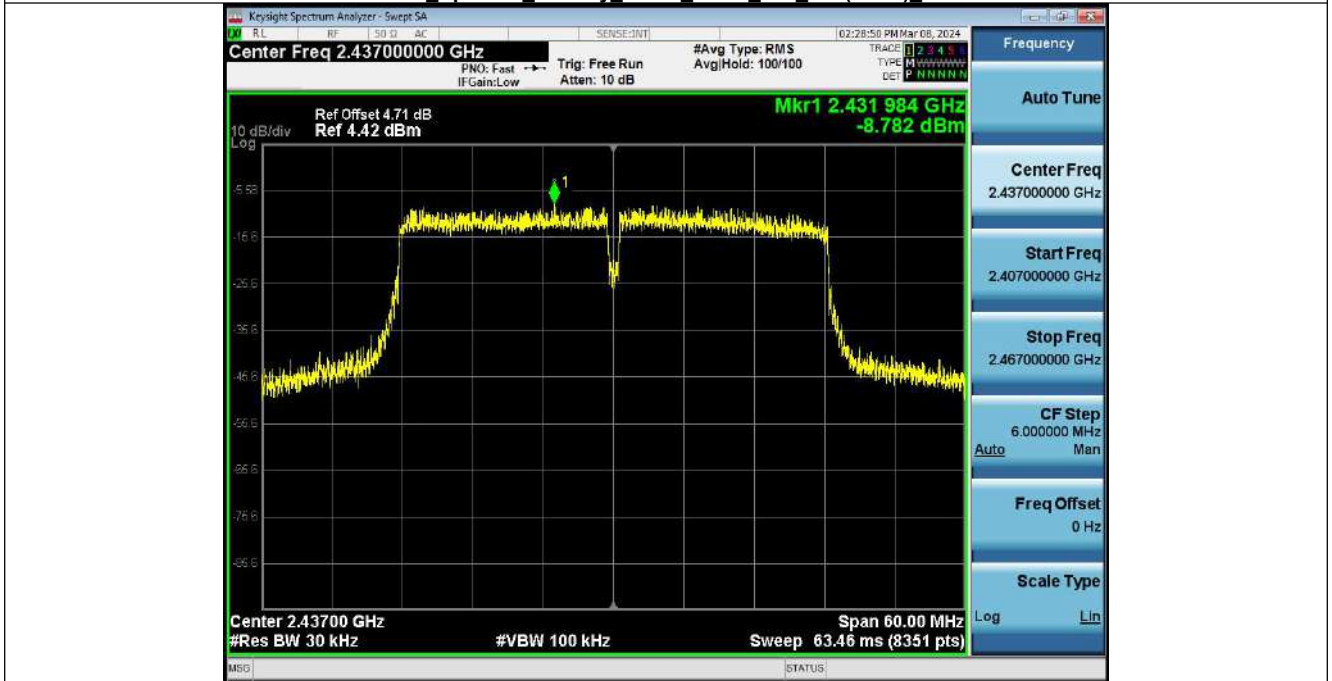
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



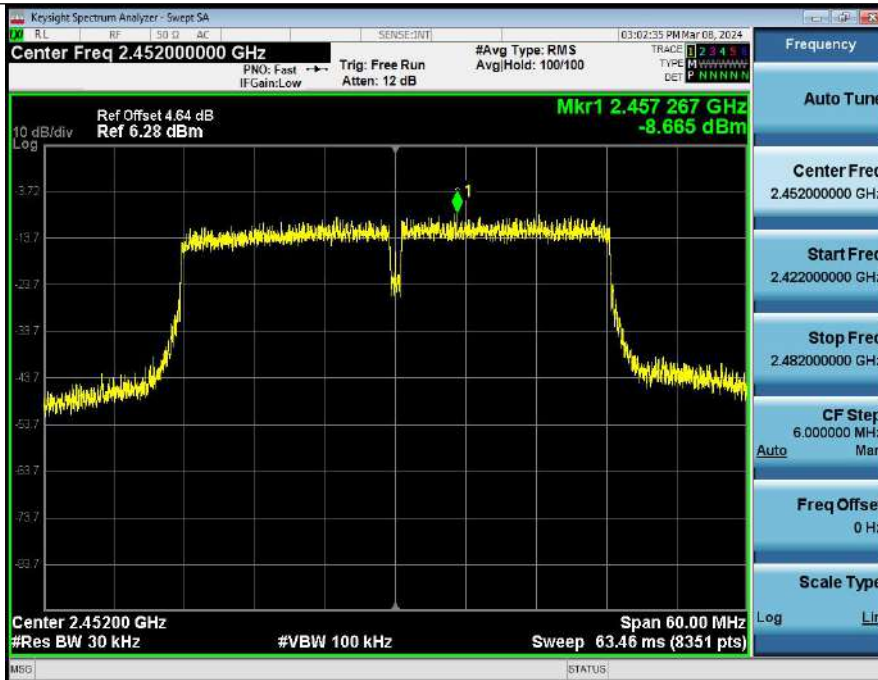
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



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	-48.847	-19.094	Pass
NVNT	ANT1	802.11b	2462.00	2483.632	-54.127	-17.231	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-34.042	-21.332	Pass
NVNT	ANT1	802.11g	2462.00	2483.872	-40.520	-20.191	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	-30.356	-21.370	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.776	-37.163	-20.273	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2397.516	-36.269	-23.459	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.768	-38.959	-23.711	Pass



1 Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



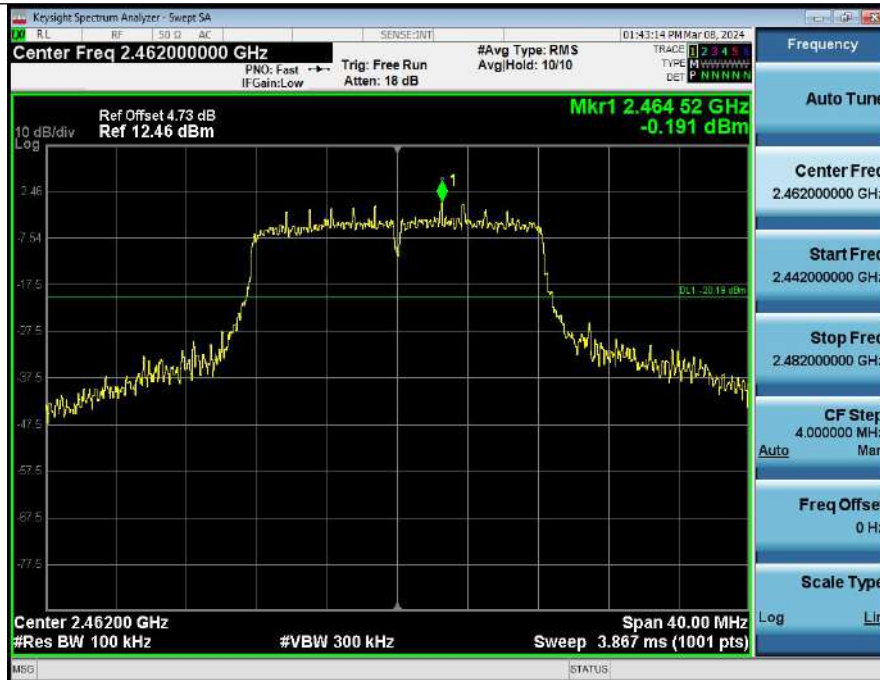
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2_Bandedge_NVNT_ANT1_802_11g_2412



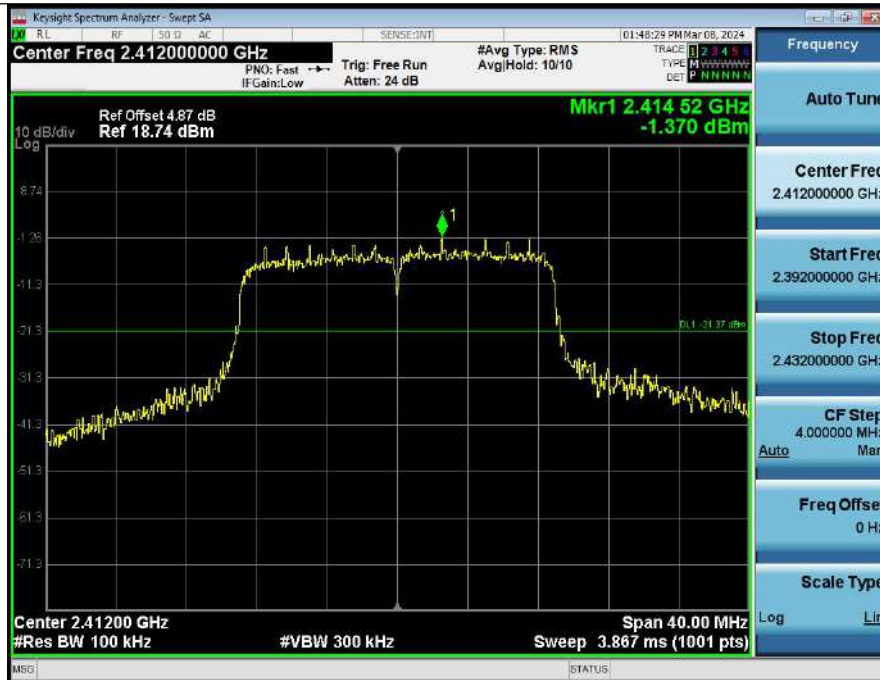
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2_Bandedge_NVNT_ANT1_802_11g_2462



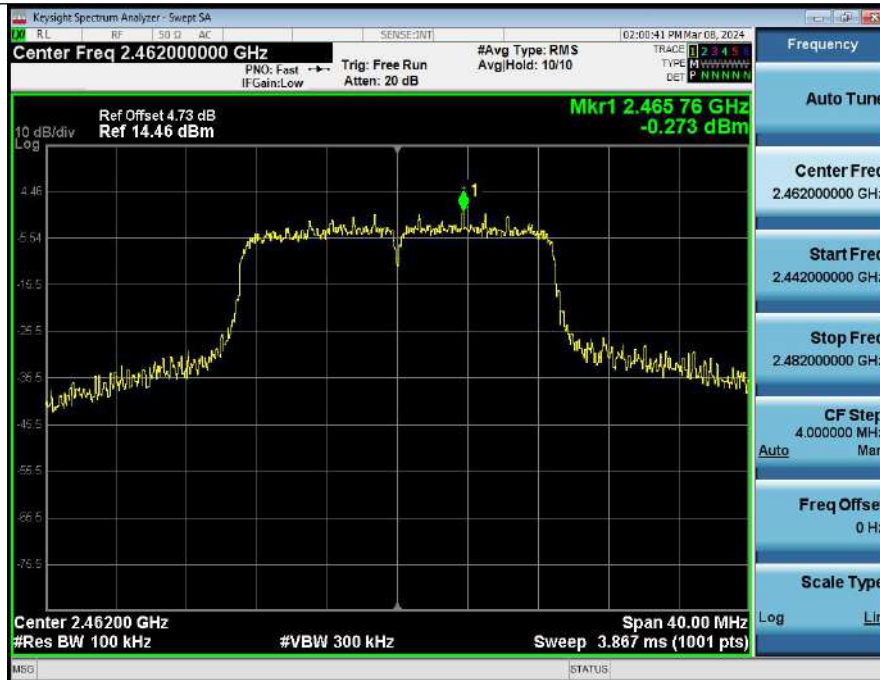
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



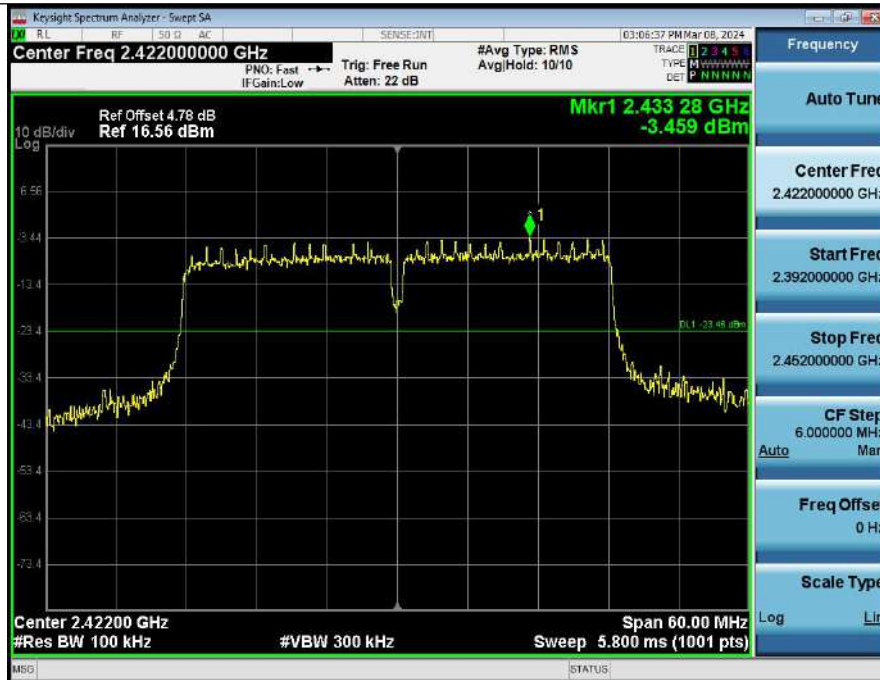
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



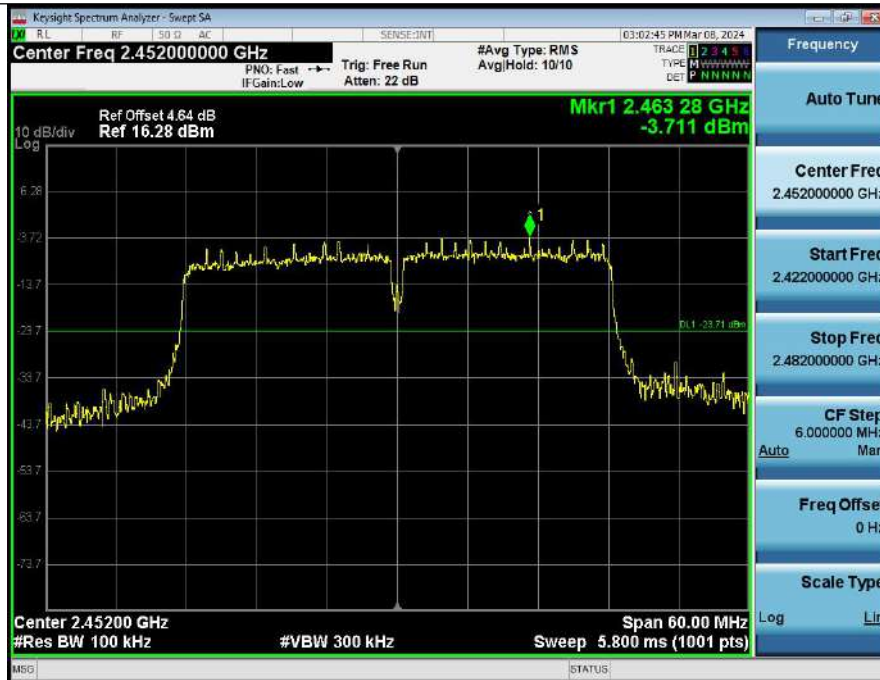
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2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



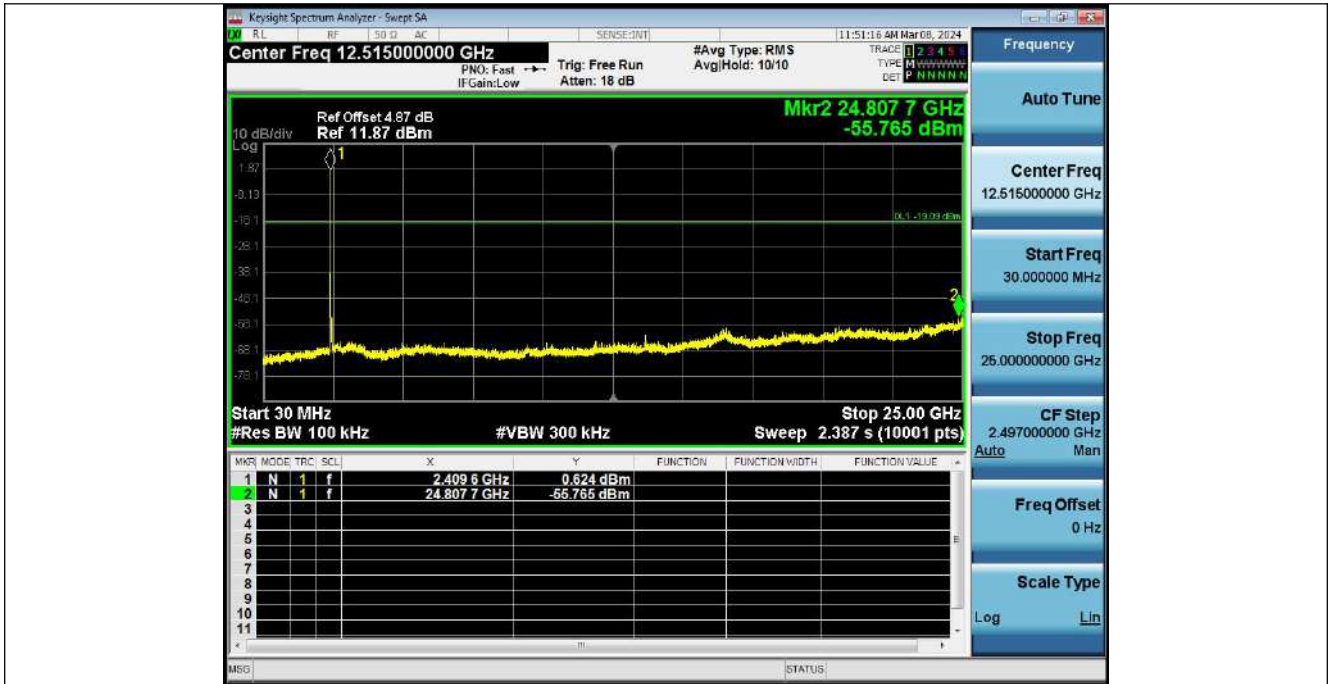
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24807.731	-55.765	-19.094	Pass
NVNT	ANT1	802.11b	2437.00	24905.114	-49.574	-17.800	Pass
NVNT	ANT1	802.11b	2462.00	24890.132	-54.576	-17.231	Pass
NVNT	ANT1	802.11g	2412.00	24920.096	-54.828	-21.332	Pass
NVNT	ANT1	802.11g	2437.00	24907.611	-54.540	-21.261	Pass
NVNT	ANT1	802.11g	2462.00	826.543	-56.287	-20.191	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	25000.000	-53.625	-21.370	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	826.543	-53.262	-21.171	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	829.040	-28.283	-20.273	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24977.527	-55.594	-23.459	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24987.515	-56.589	-23.694	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24997.503	-55.906	-23.711	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



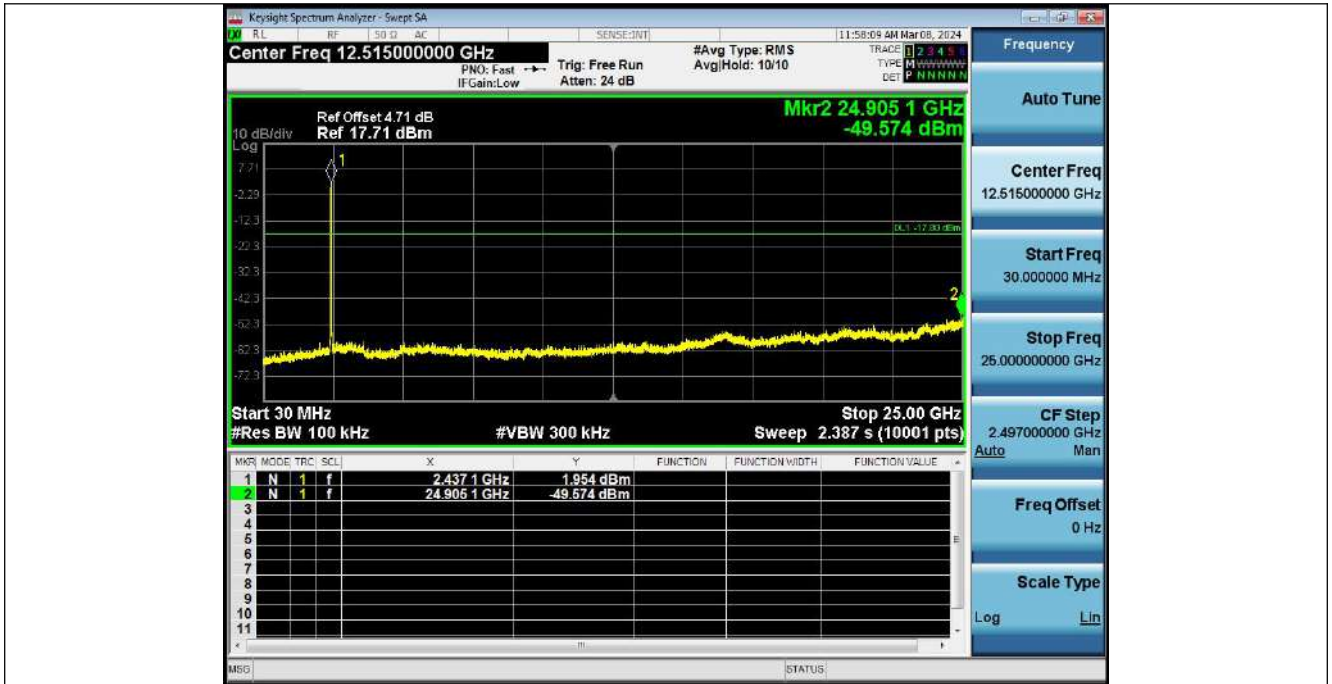
2 Spurious Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT ANT1 802 11b 2437



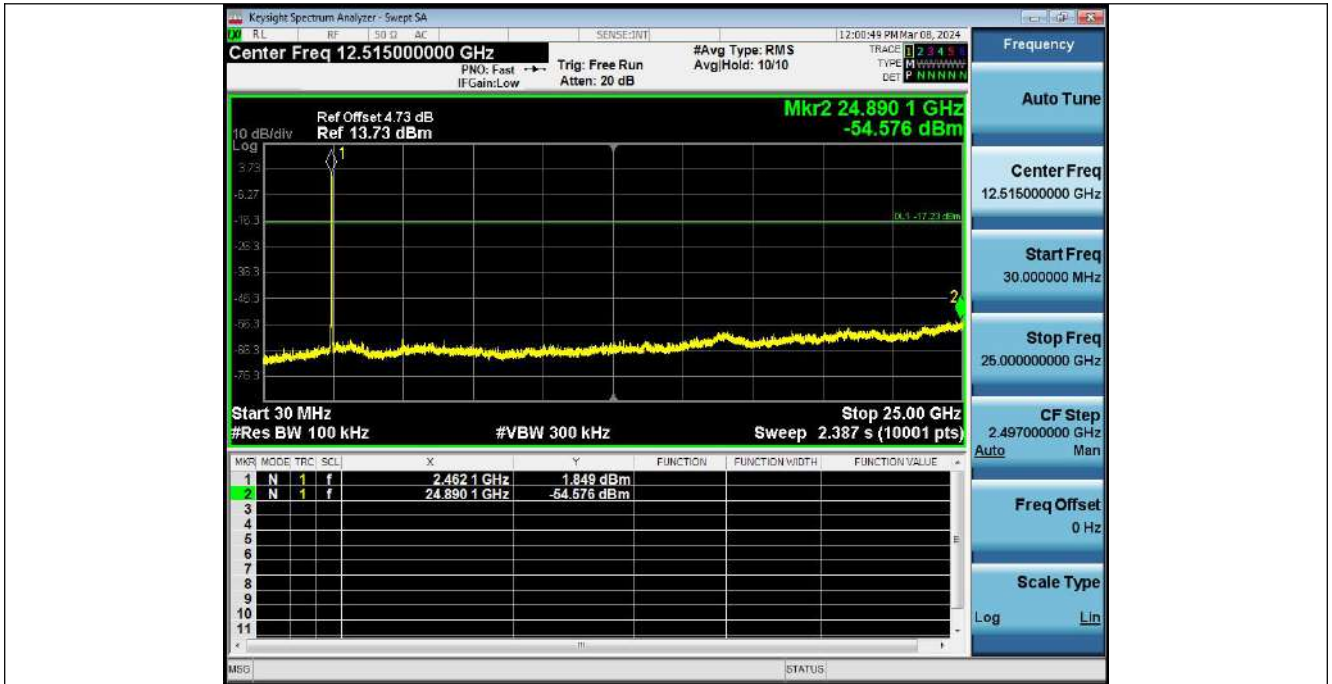
2 Spurious Emission NVNT ANT1 802 11b 2437



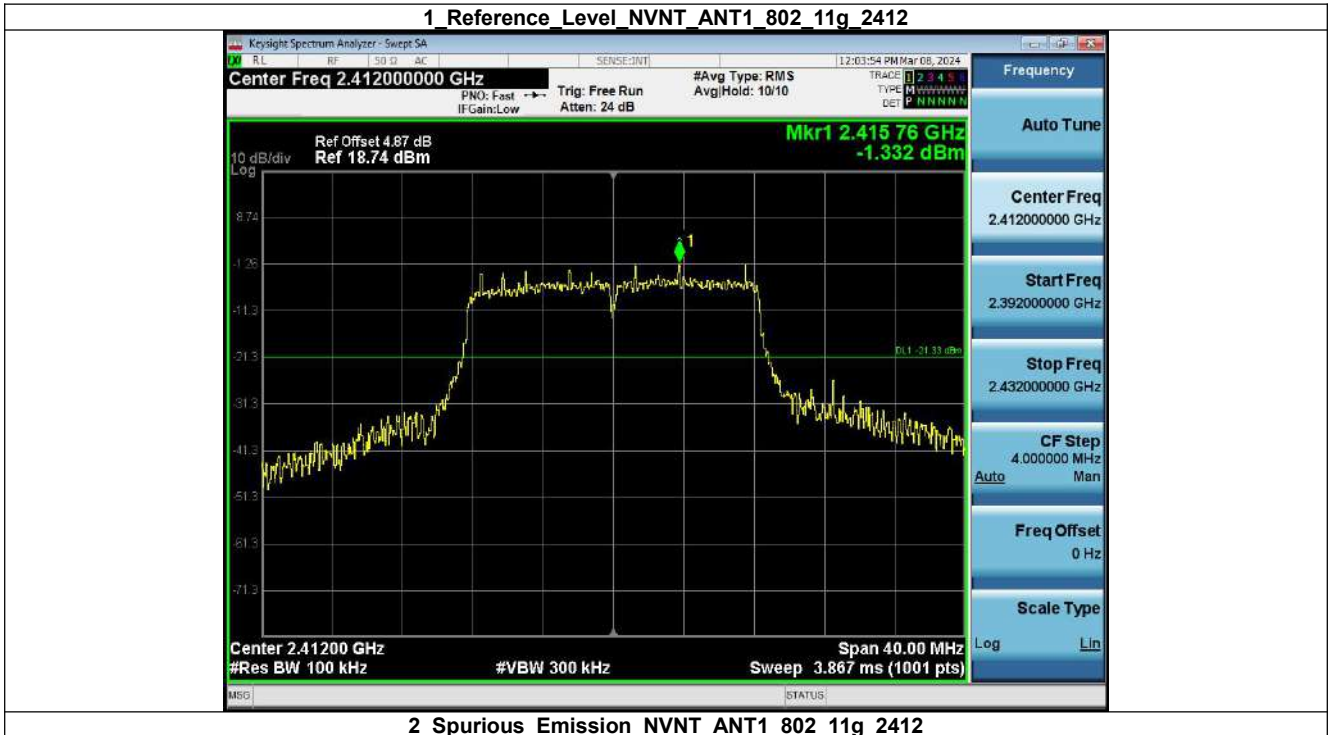
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2 Spurious Emission NVNT_ANT1_802_11b_2462



1 Reference Level NVNT_ANT1_802_11g_2412



2 Spurious Emission NVNT_ANT1_802_11g_2412



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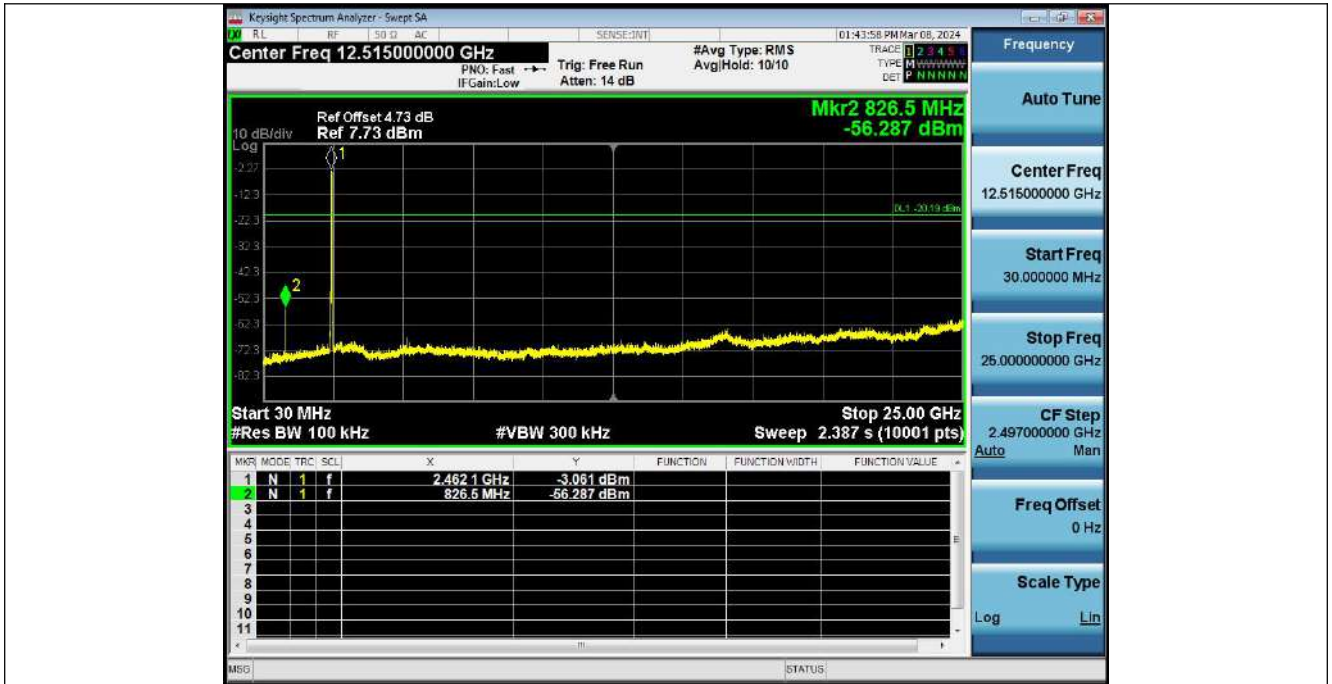
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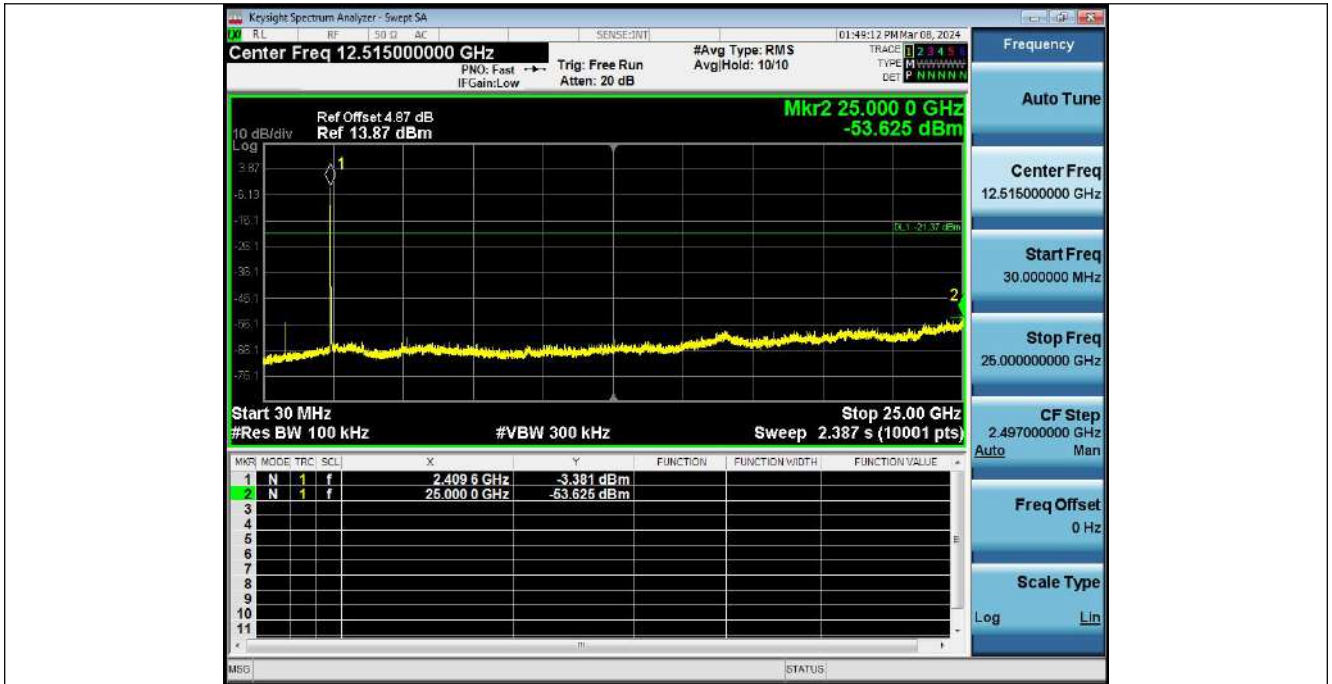
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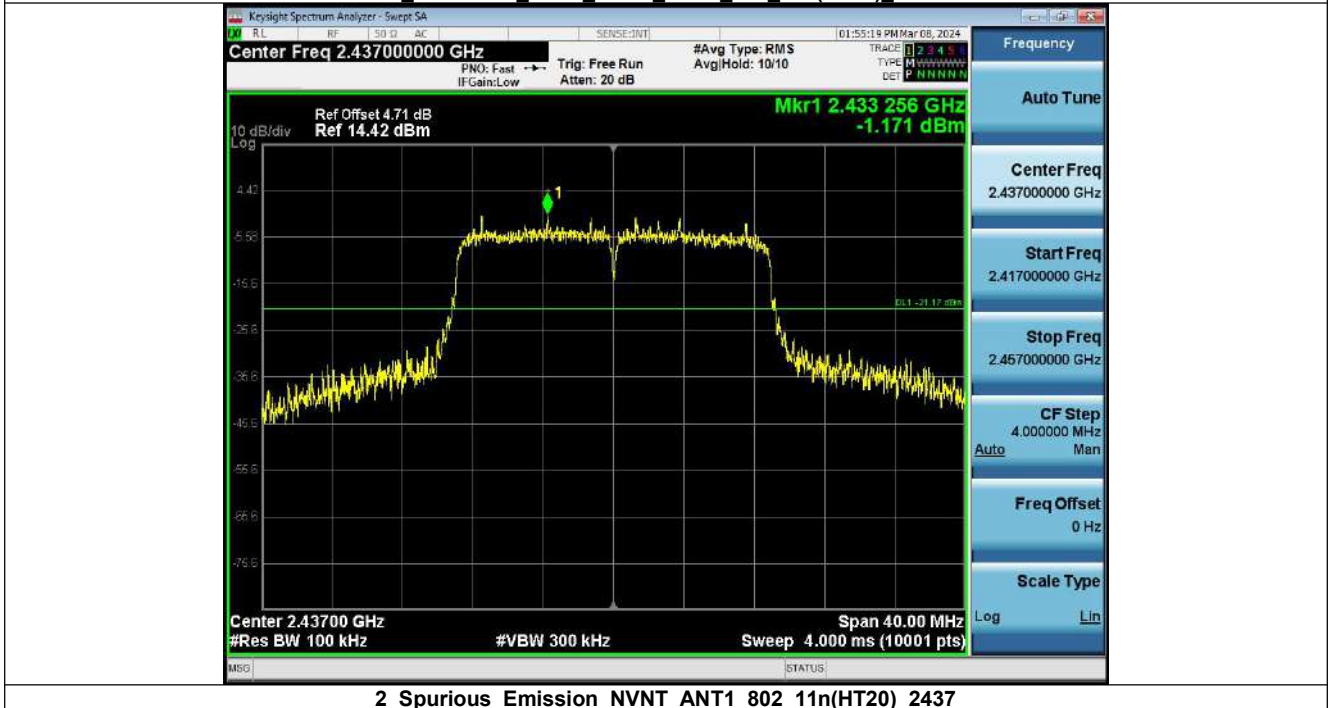
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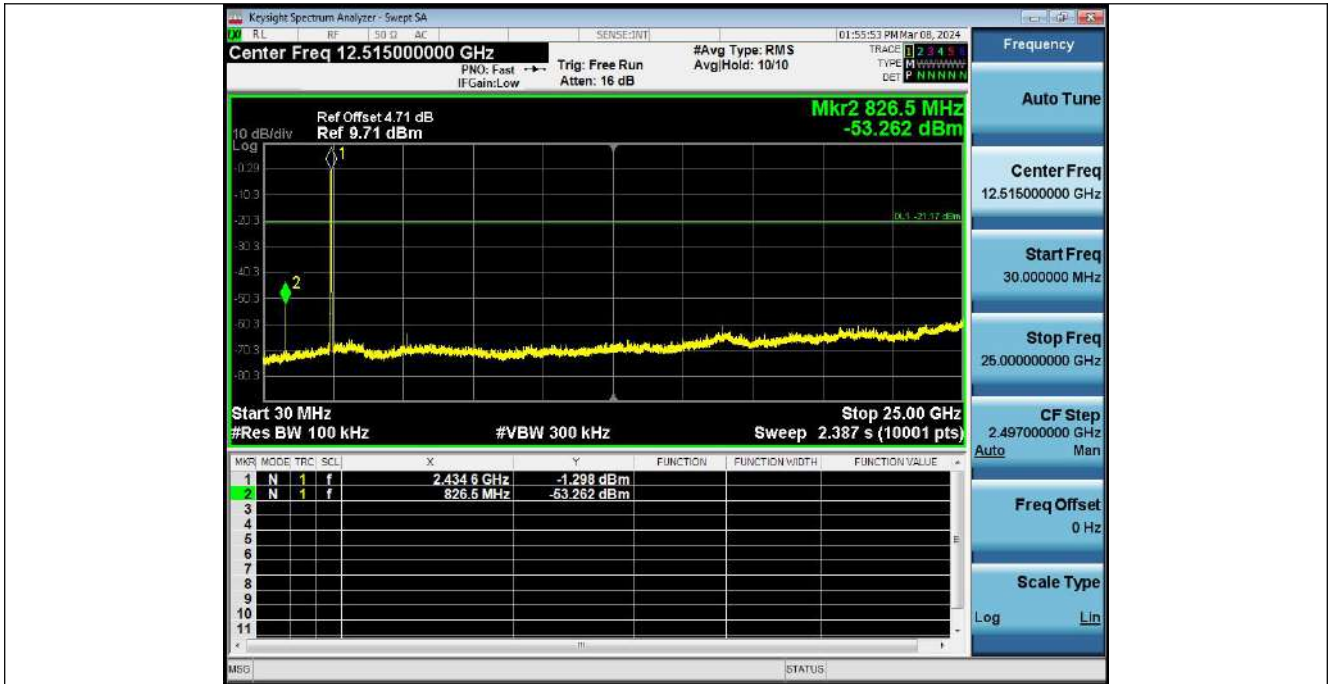
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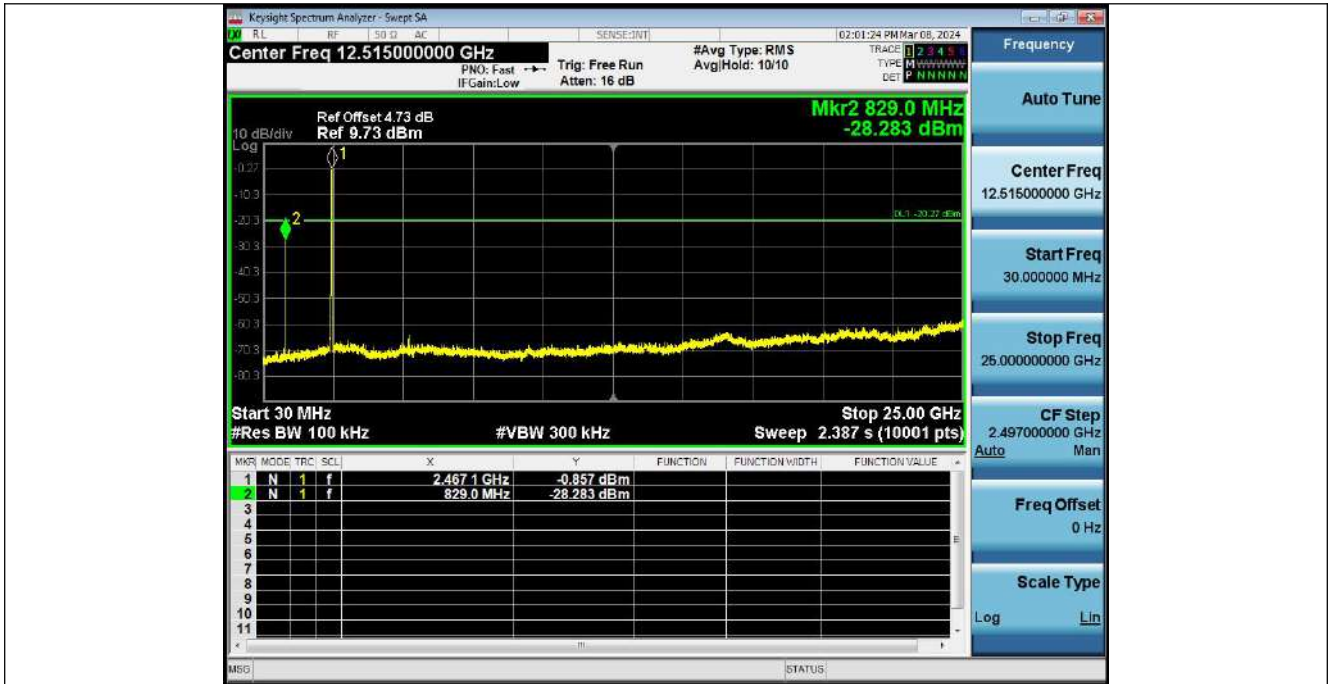
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1 Reference Level NVNT ANT1 802 11n(HT20) 2462



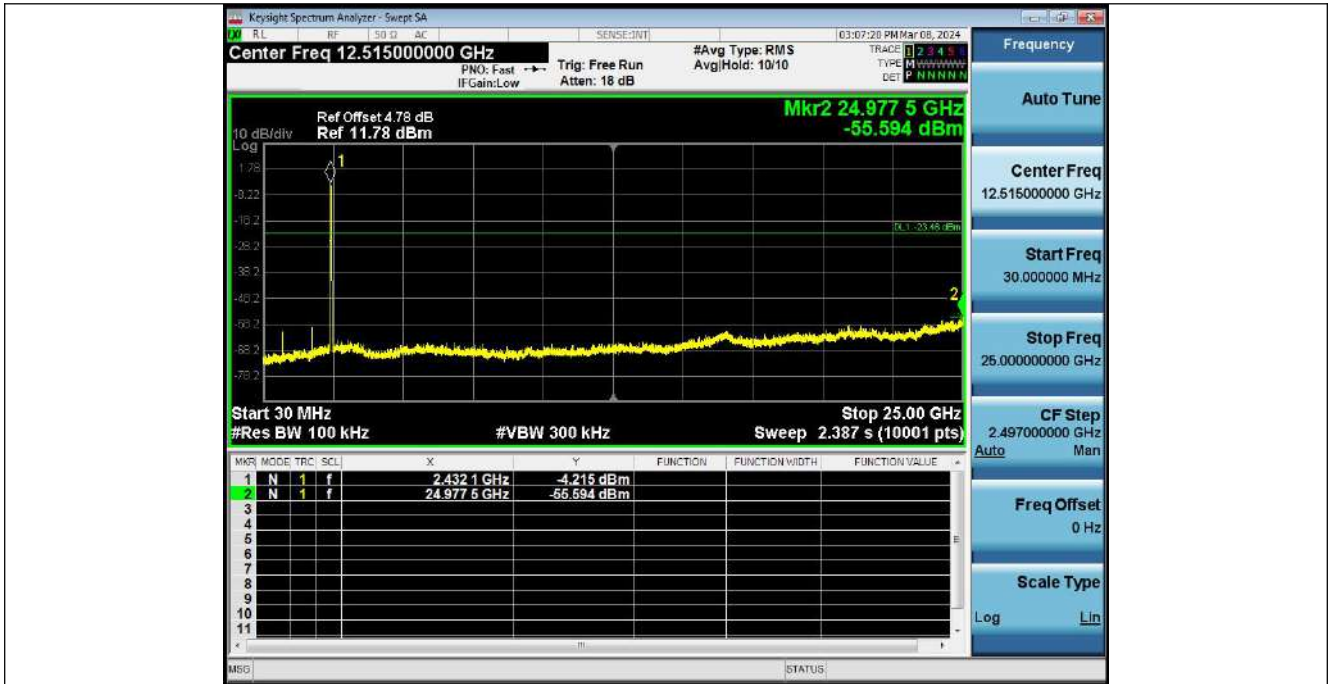
2 Spurious Emission NVNT ANT1 802 11n(HT20) 2462



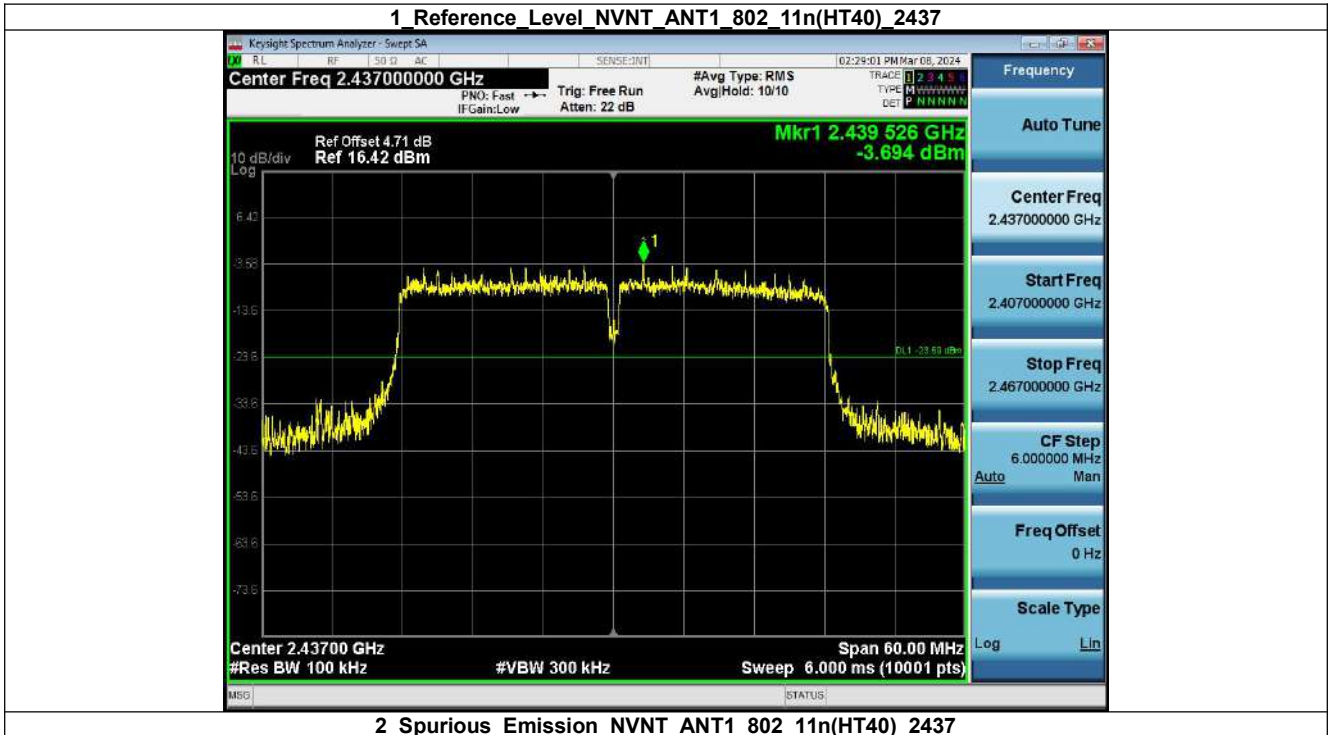
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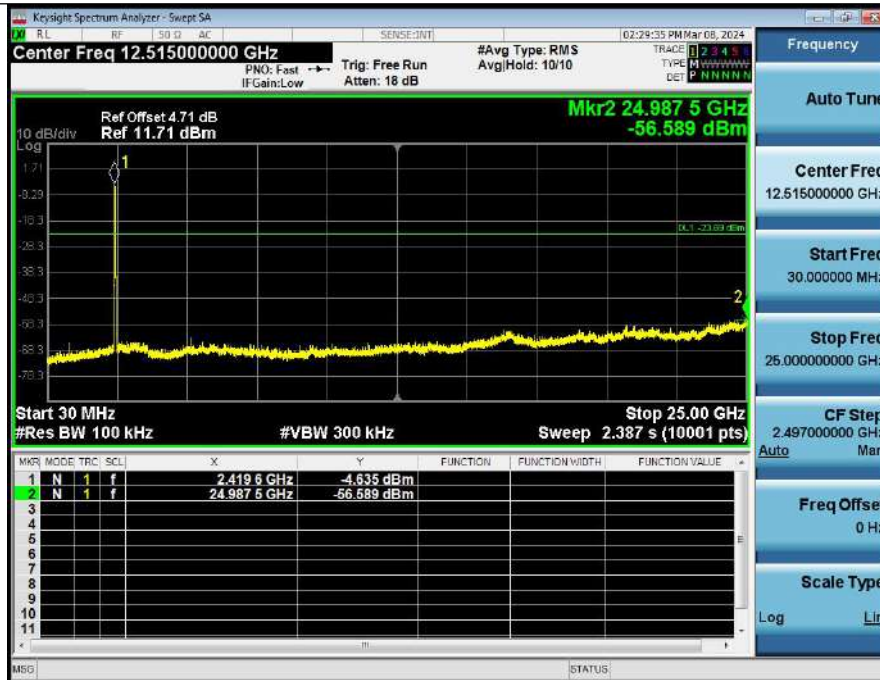
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



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

