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240905 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	9.05	500	Pass
NVNT	ANT1	802.11b	2437.00	9.06	500	Pass
NVNT	ANT1	802.11b	2462.00	9.07	500	Pass
NVNT	ANT1	802.11g	2412.00	16.32	500	Pass
NVNT	ANT1	802.11g	2437.00	16.37	500	Pass
NVNT	ANT1	802.11g	2462.00	16.11	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.71	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.28	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.02	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.58	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.93	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.33	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



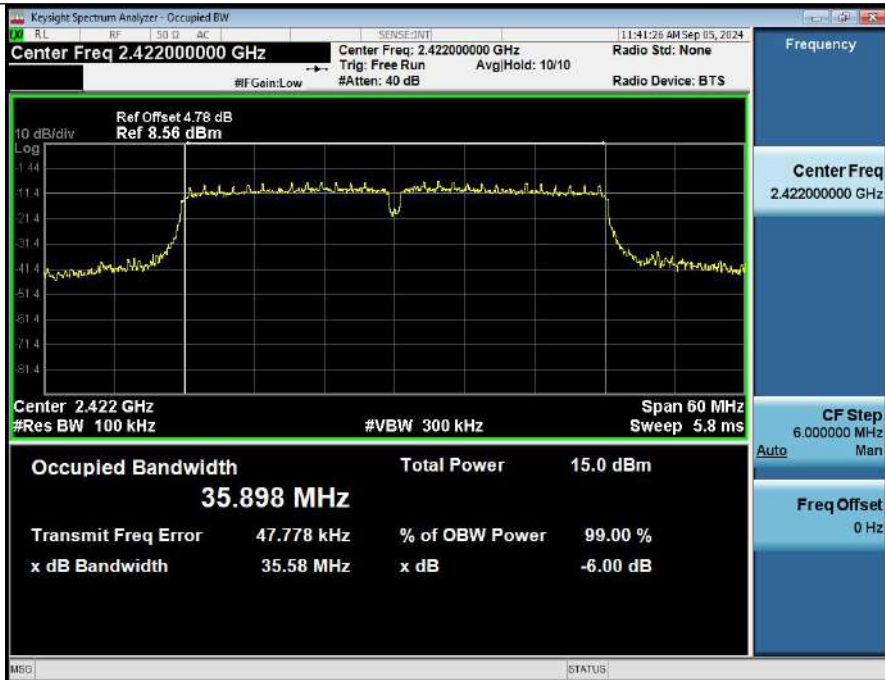
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



-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	12.766
NVNT	ANT1	802.11b	2437.00	12.149
NVNT	ANT1	802.11b	2462.00	12.378
NVNT	ANT1	802.11g	2412.00	17.310
NVNT	ANT1	802.11g	2437.00	17.189
NVNT	ANT1	802.11g	2462.00	17.166
NVNT	ANT1	802.11n(HT20)	2412.00	17.668
NVNT	ANT1	802.11n(HT20)	2437.00	17.748
NVNT	ANT1	802.11n(HT20)	2462.00	17.758
NVNT	ANT1	802.11n(HT40)	2422.00	36.335
NVNT	ANT1	802.11n(HT40)	2437.00	36.451
NVNT	ANT1	802.11n(HT40)	2452.00	36.350



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

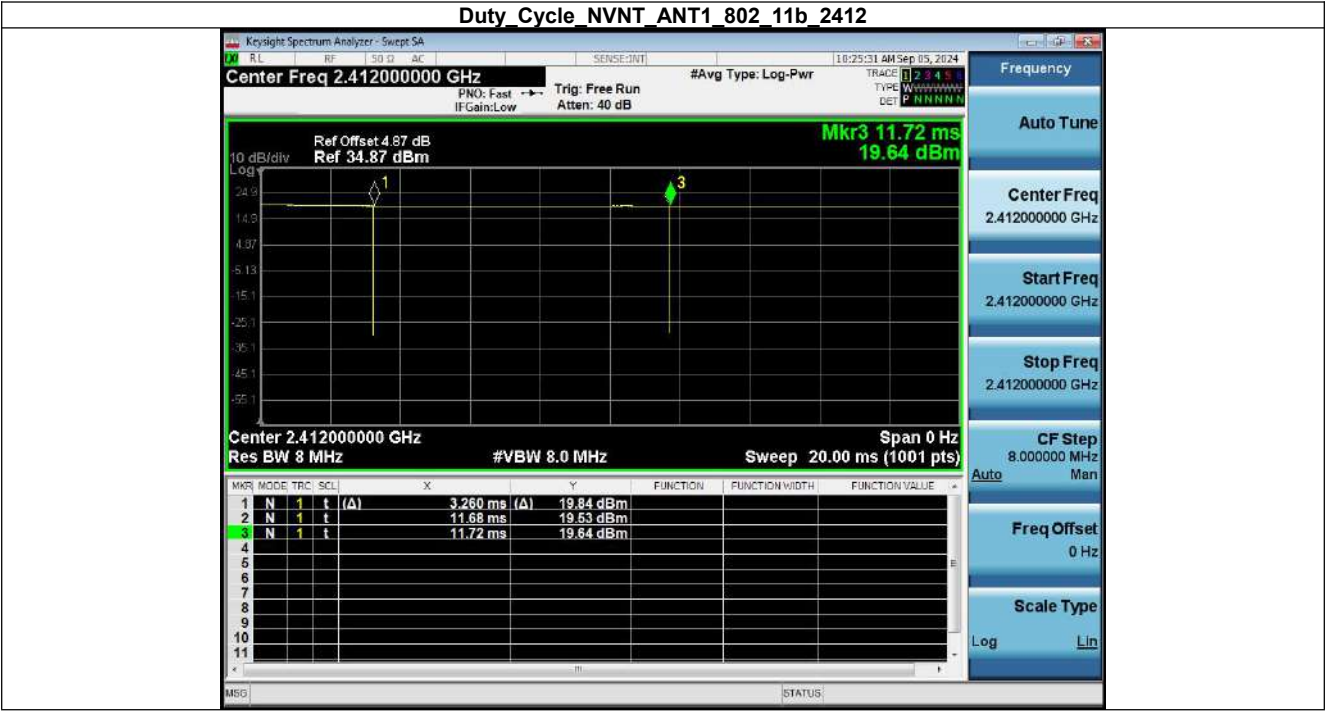


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

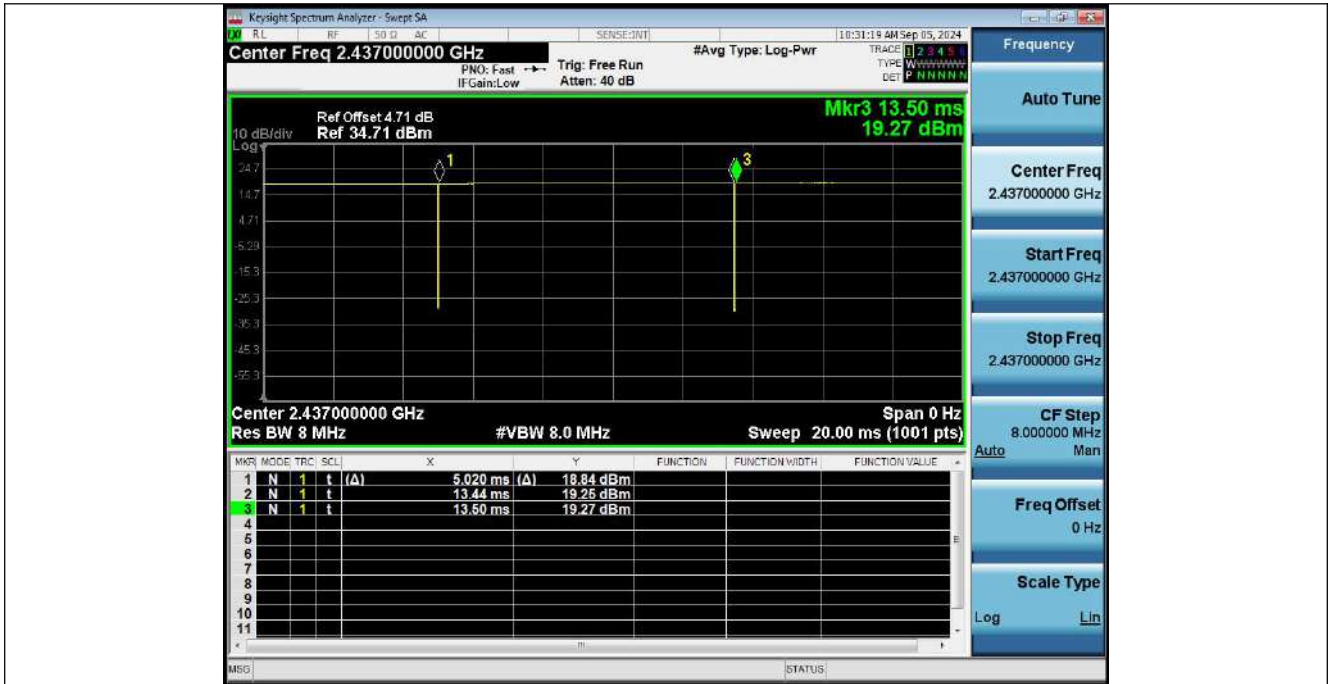


3. Duty Cycle

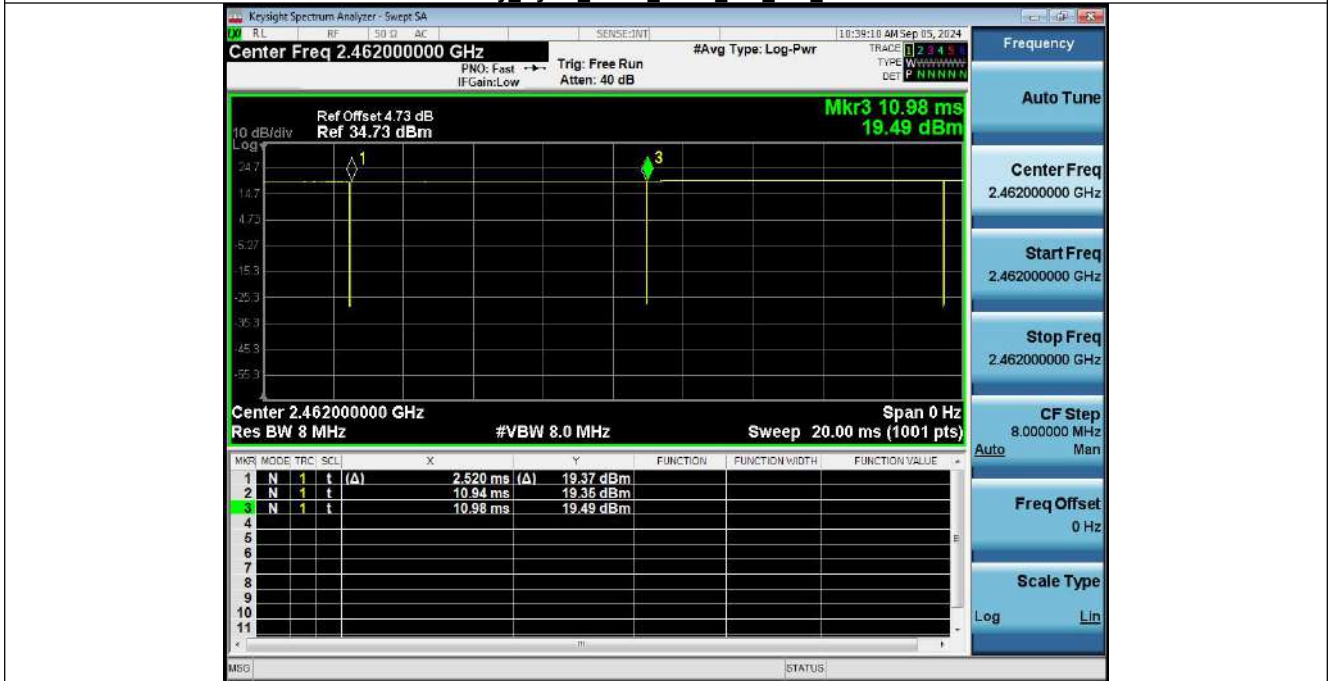
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	98.61	0.00
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	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	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



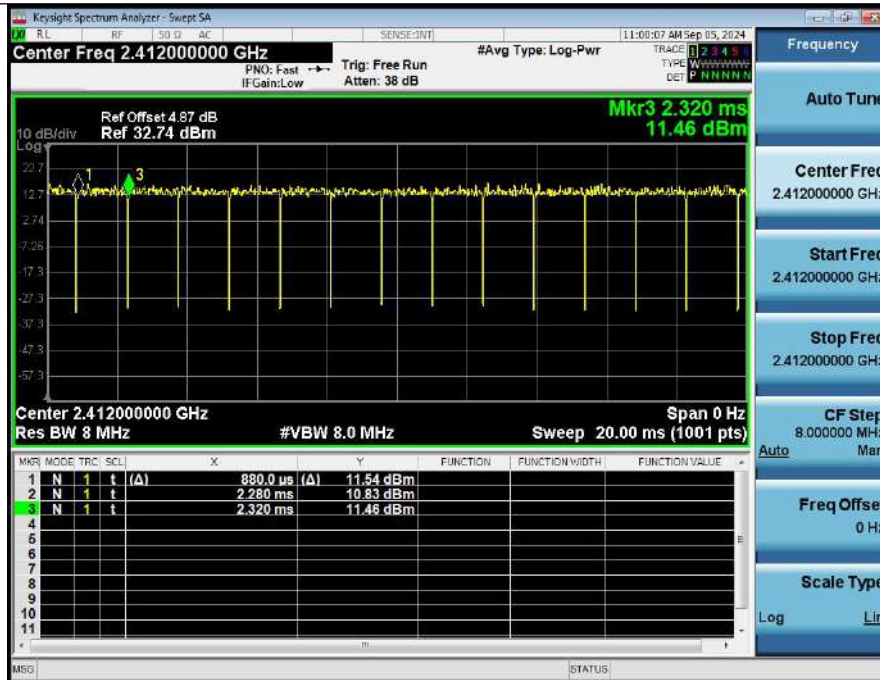
Duty Cycle NVNT ANT1 802 11b 2437



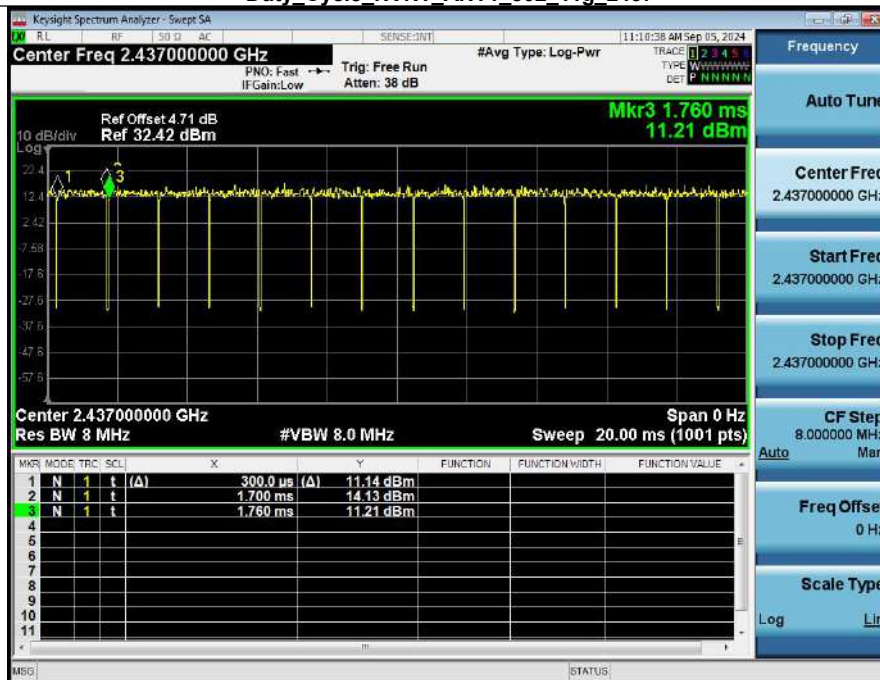
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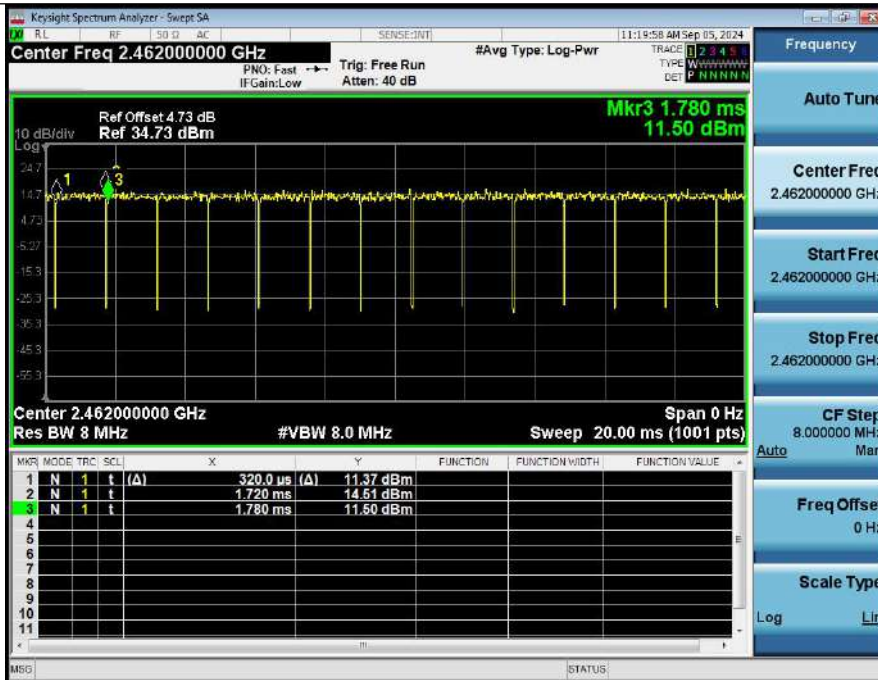
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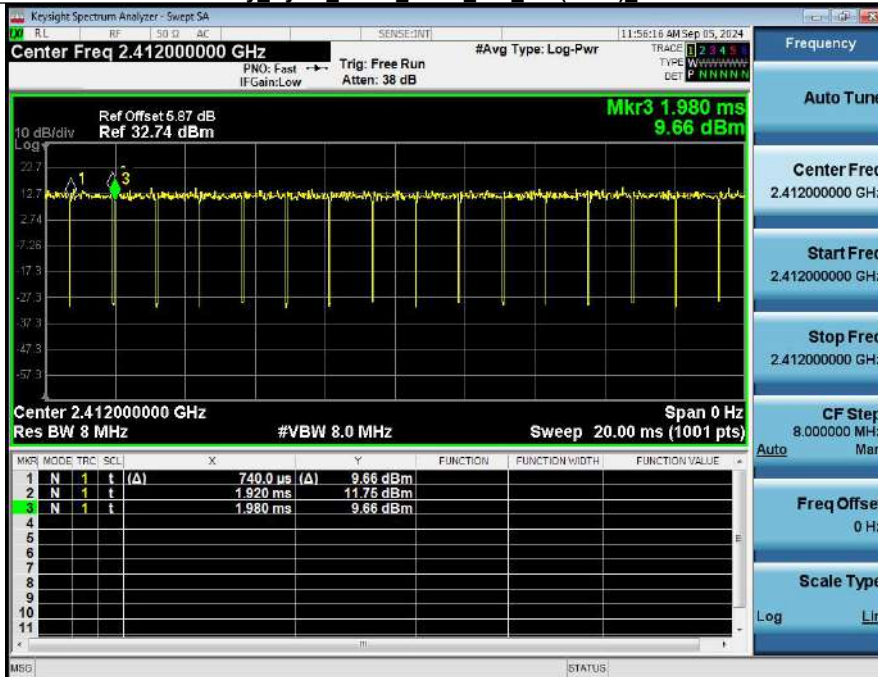
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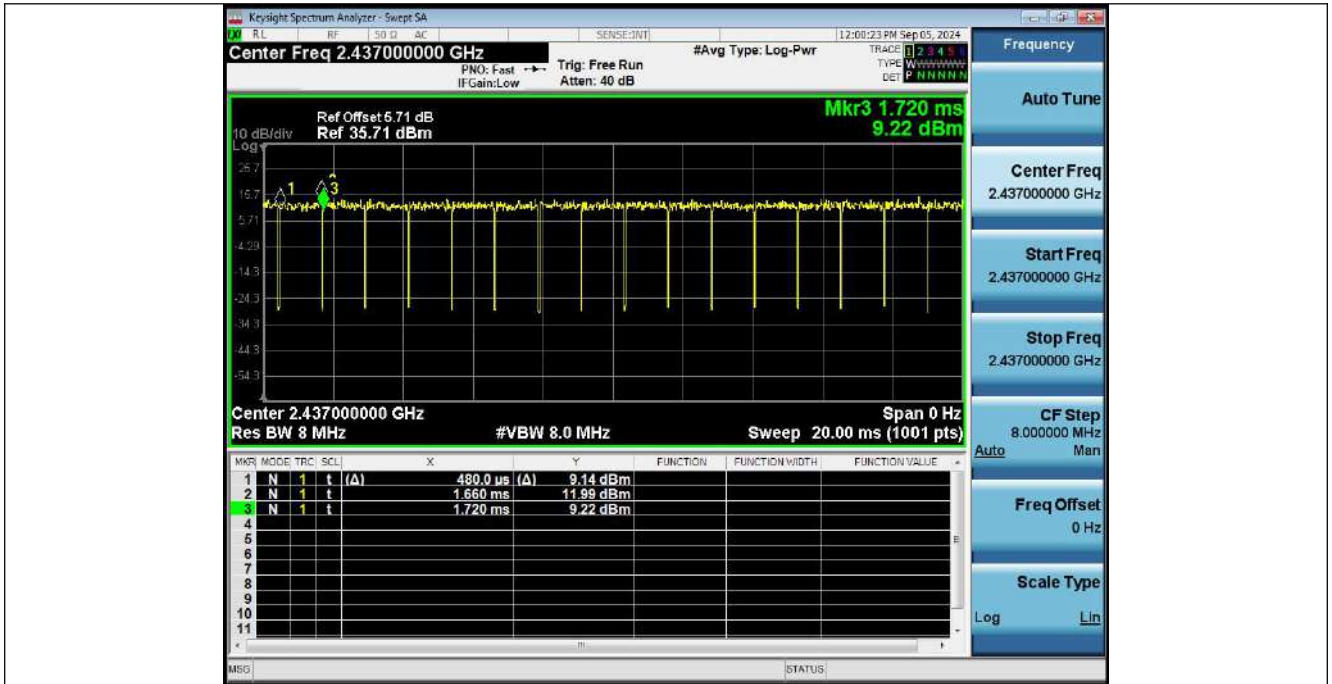
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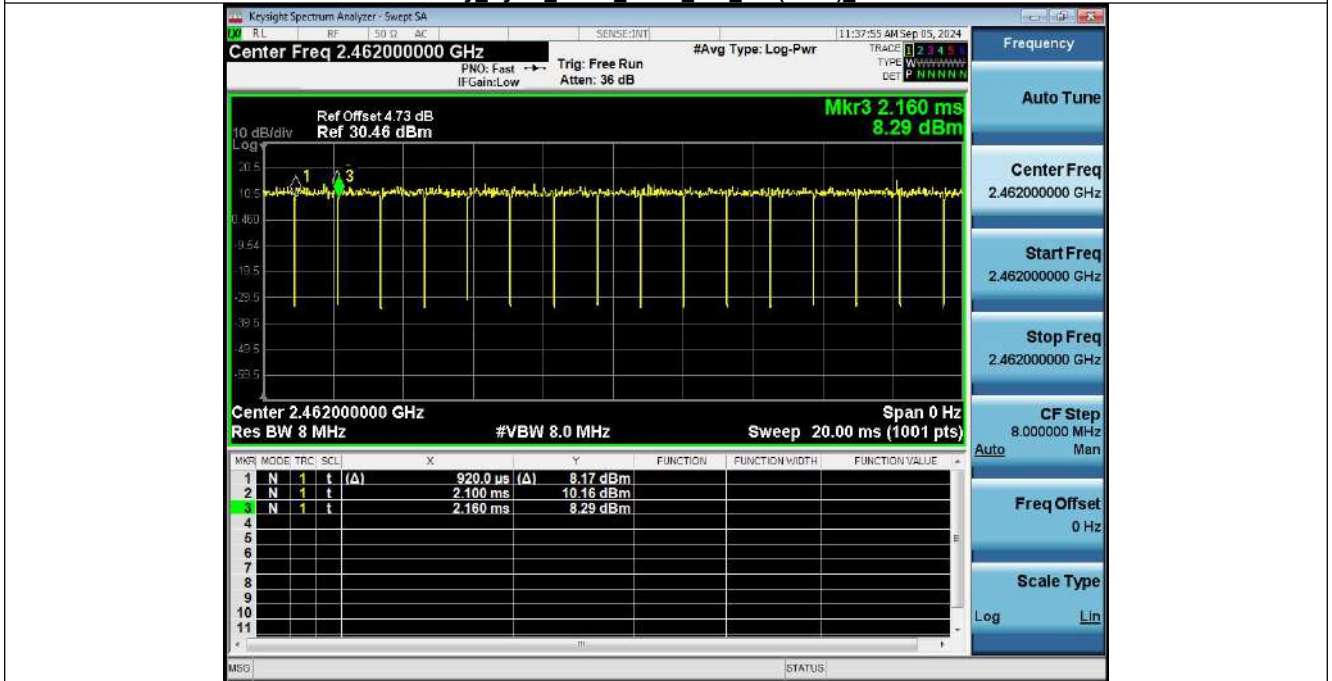
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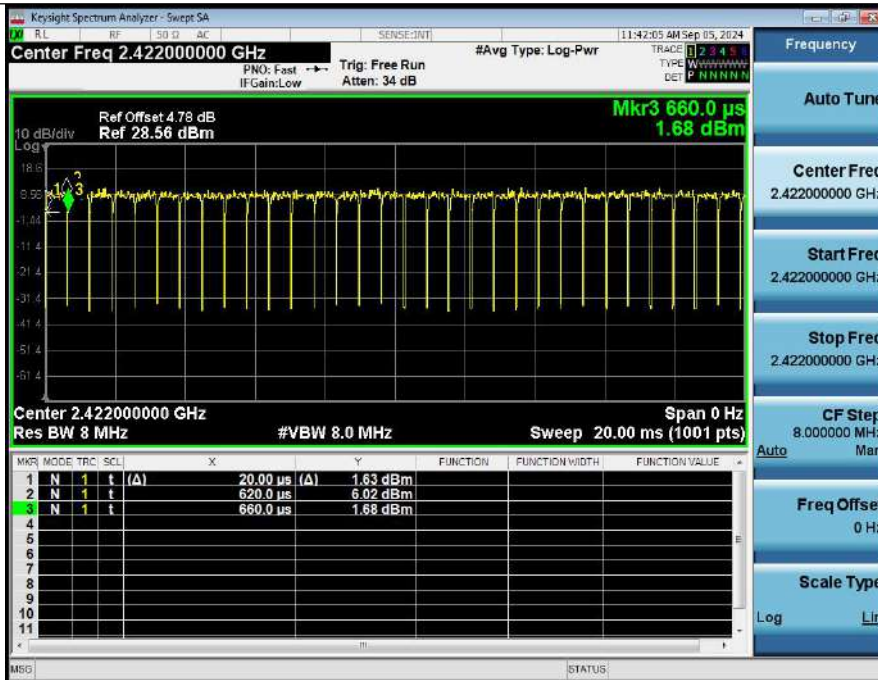
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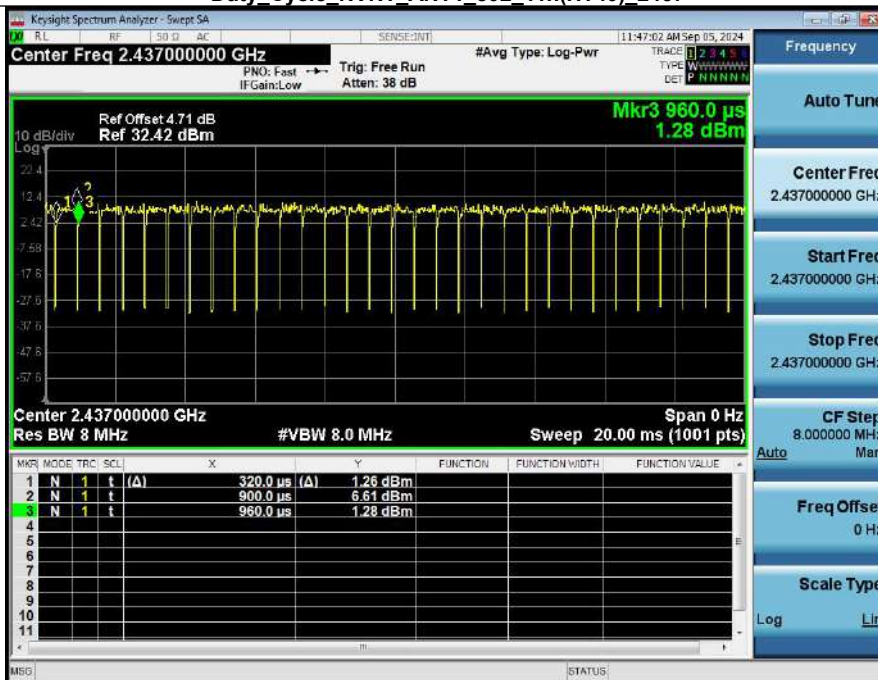
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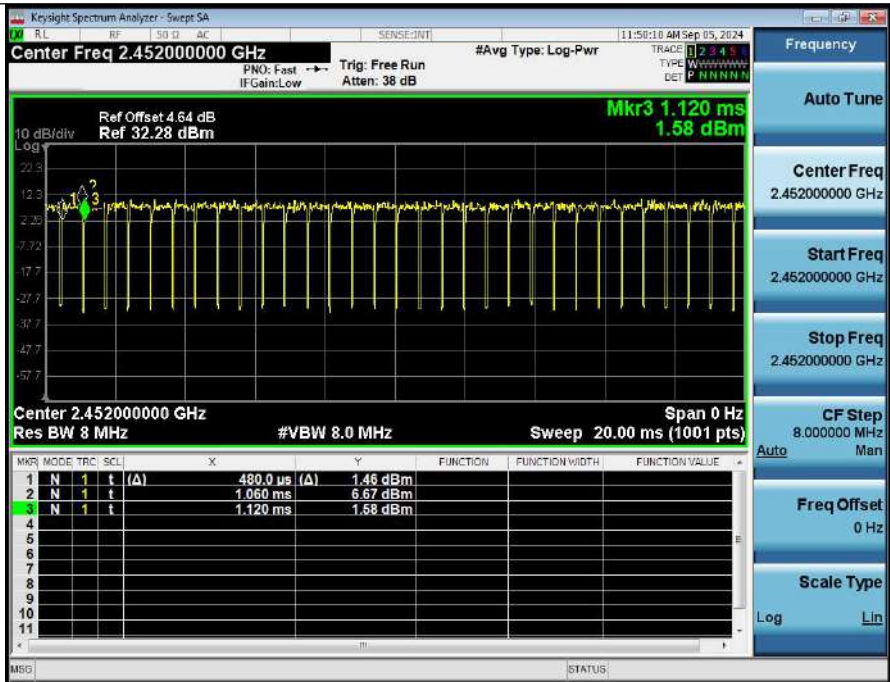
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	18.39	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	18.09	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	18.79	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	17.44	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	17.42	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	17.69	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	15.69	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	15.48	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	15.04	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	15.47	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	14.92	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	14.56	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	4.09	N/A	-10.00	-5.91	8	Pass
NVNT	ANT1	802.11b	2437.00	6.33	N/A	-10.00	-3.67	8	Pass
NVNT	ANT1	802.11b	2462.00	3.25	N/A	-10.00	-6.75	8	Pass
NVNT	ANT1	802.11g	2412.00	-6.12	N/A	-10.00	-16.12	8	Pass
NVNT	ANT1	802.11g	2437.00	-6.18	N/A	-10.00	-16.18	8	Pass
NVNT	ANT1	802.11g	2462.00	-5.33	N/A	-10.00	-15.33	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-8.20	N/A	-10.00	-18.20	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-8.38	N/A	-10.00	-18.38	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-9.00	N/A	-10.00	-19.00	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-11.68	N/A	-10.00	-21.68	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-12.38	N/A	-10.00	-22.38	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-12.32	N/A	-10.00	-22.32	8	Pass



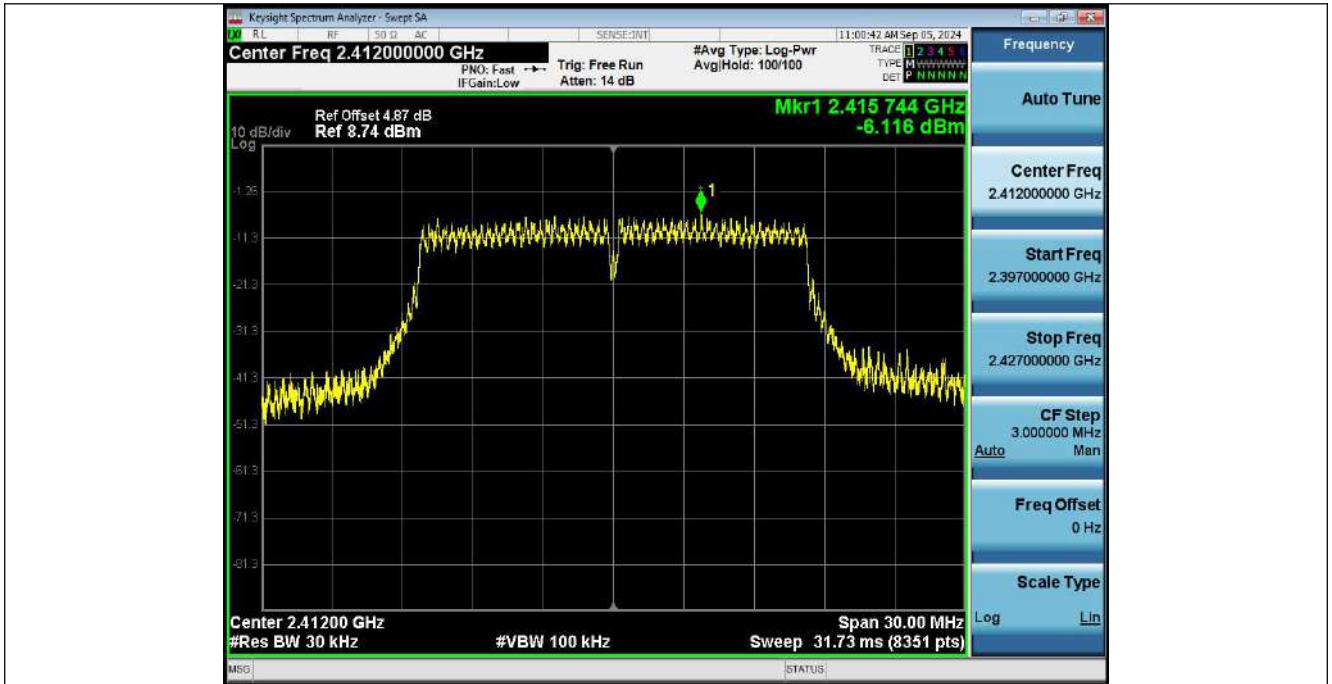
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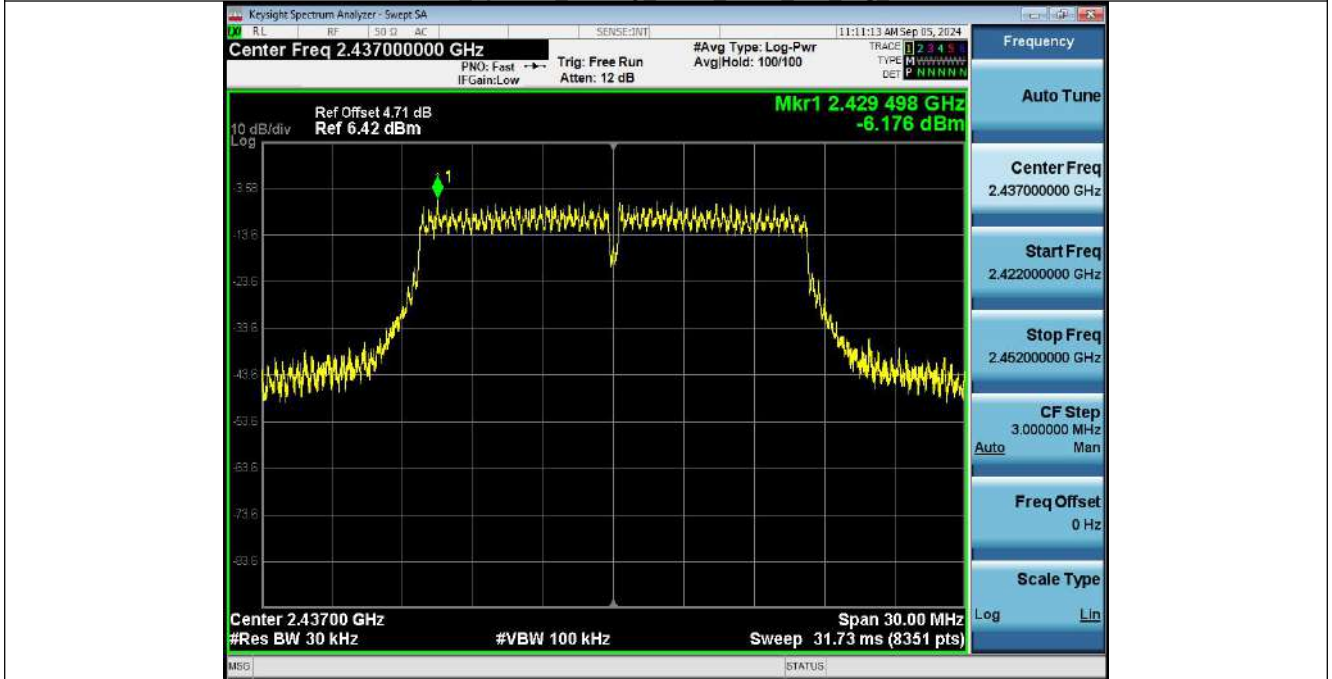
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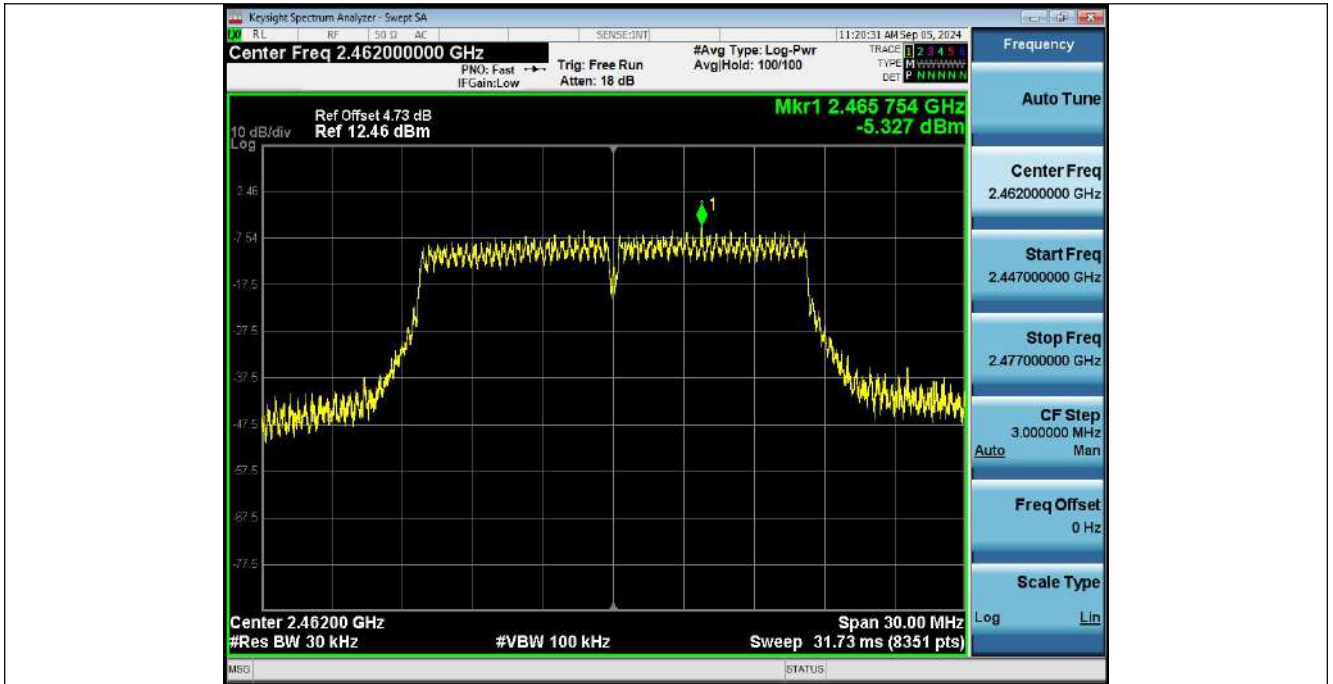
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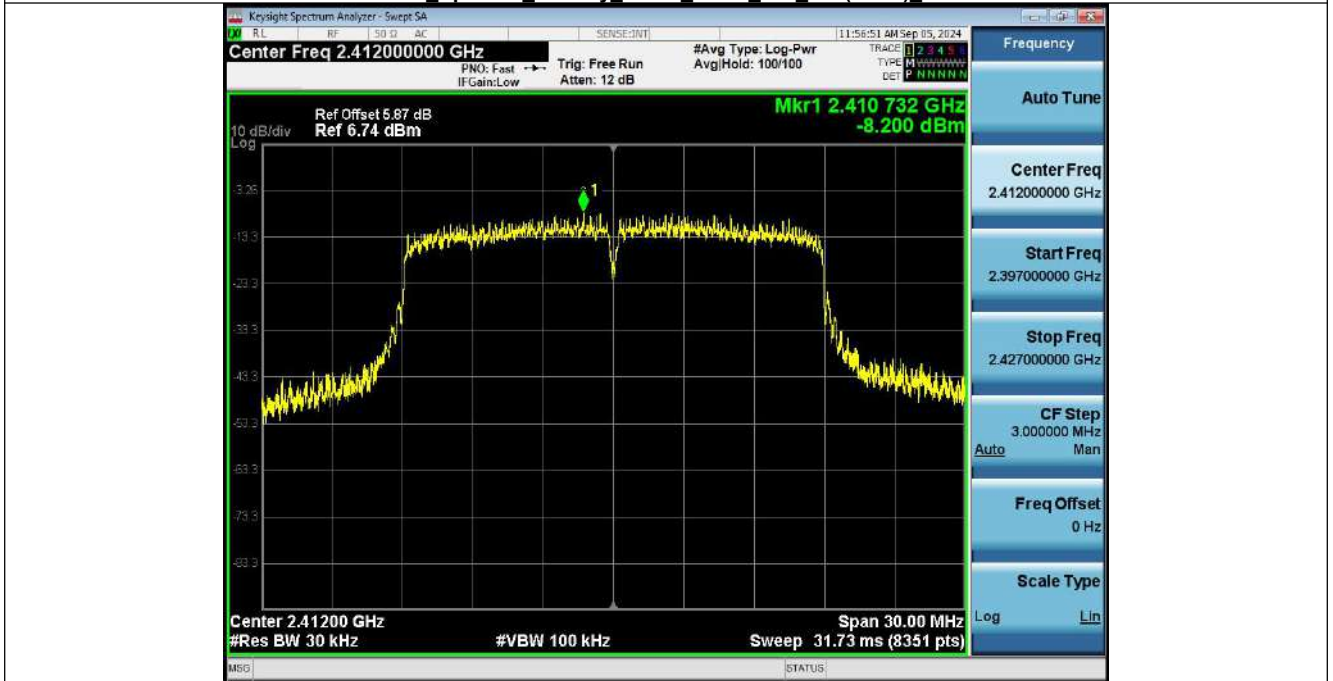
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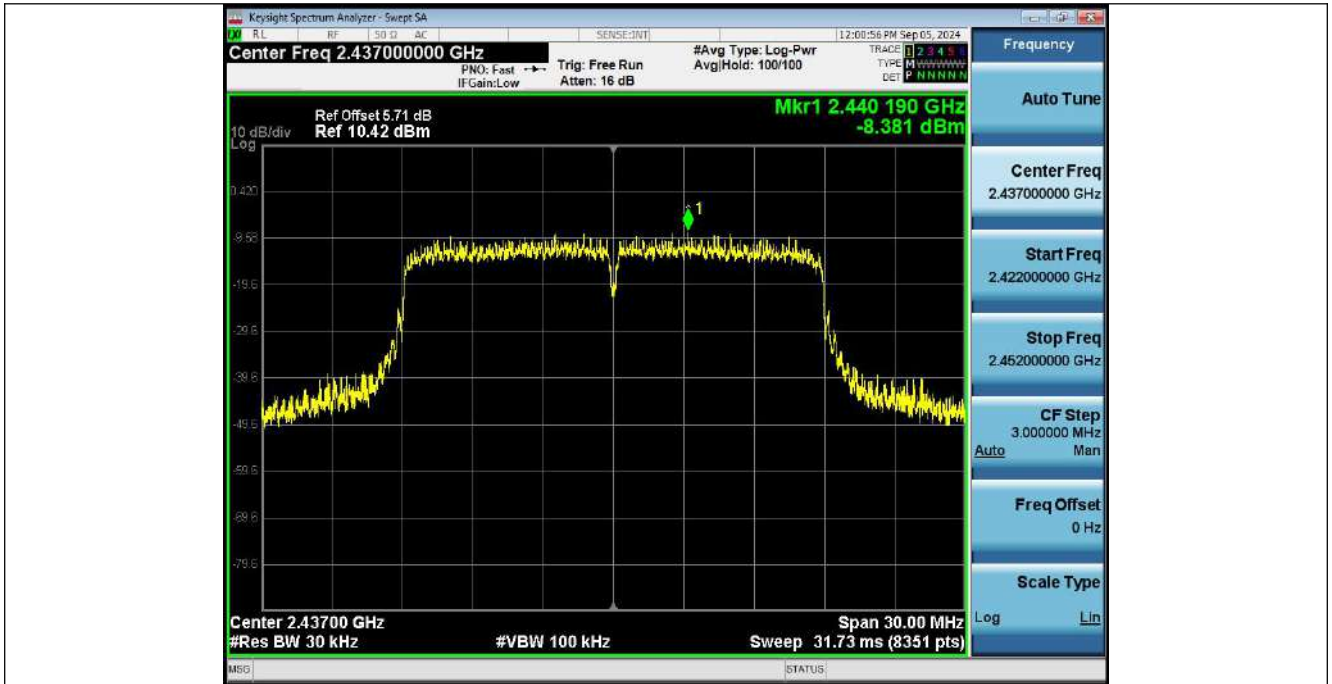
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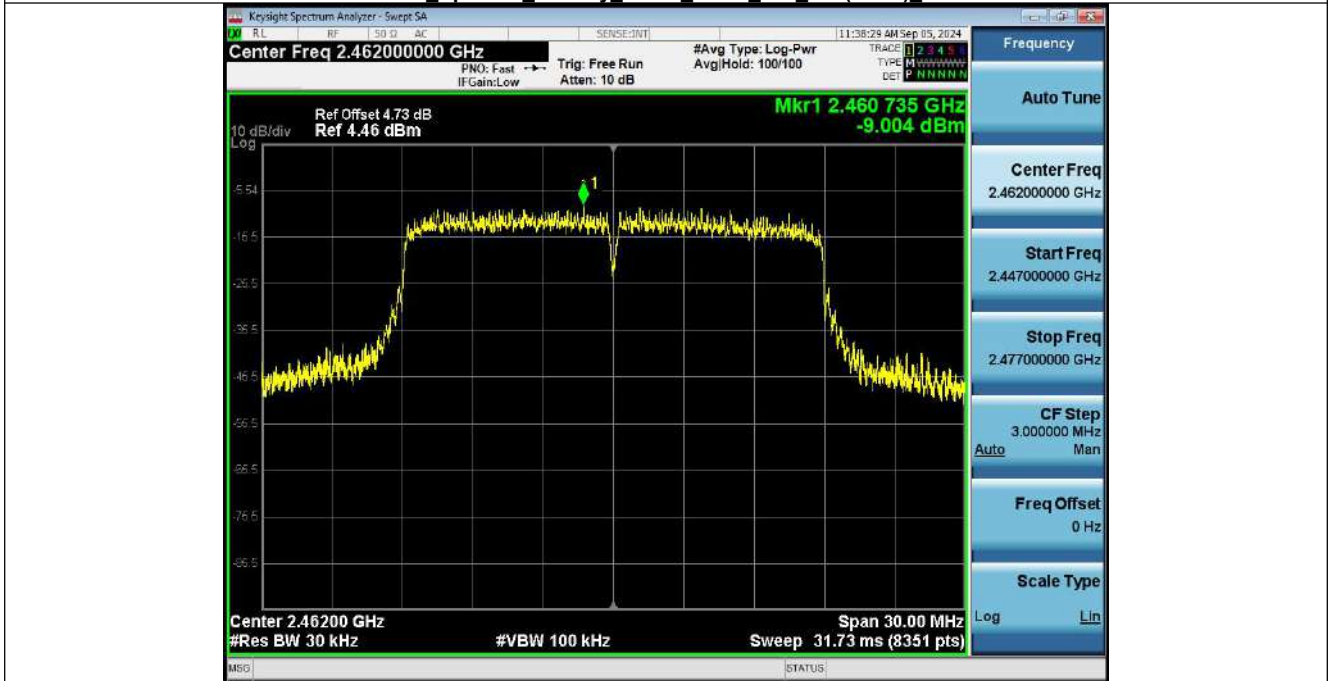
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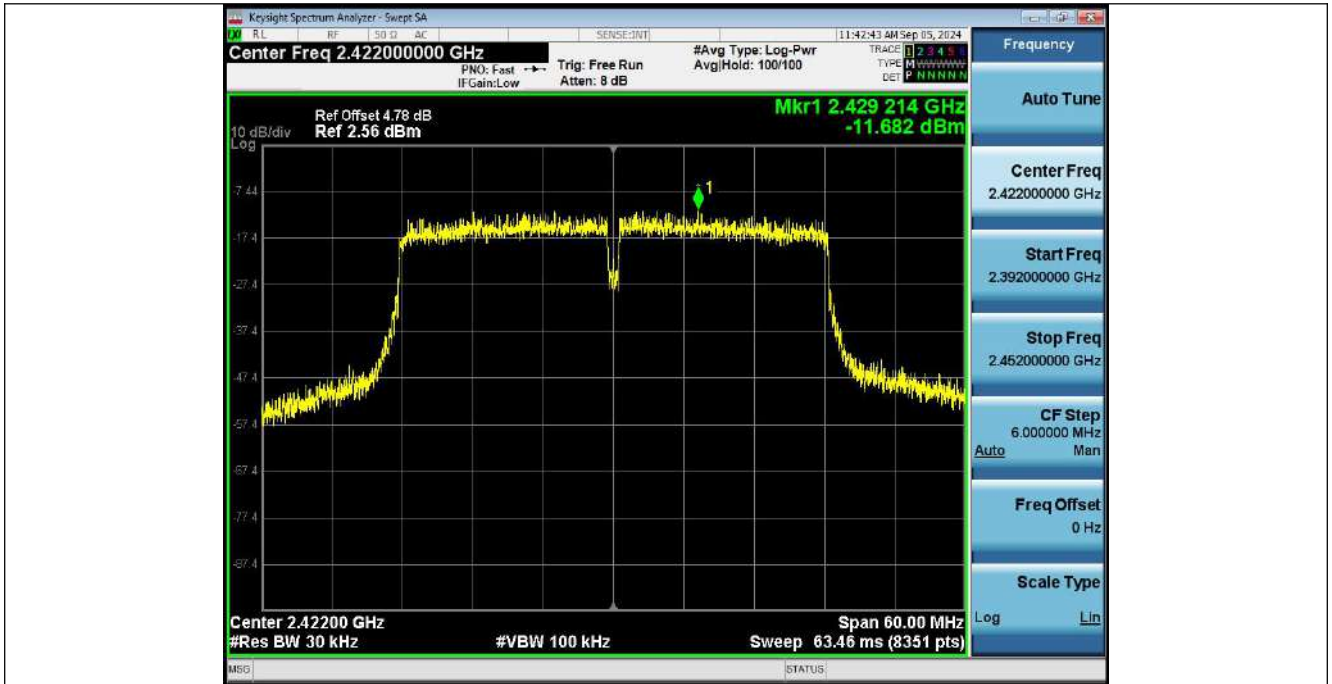
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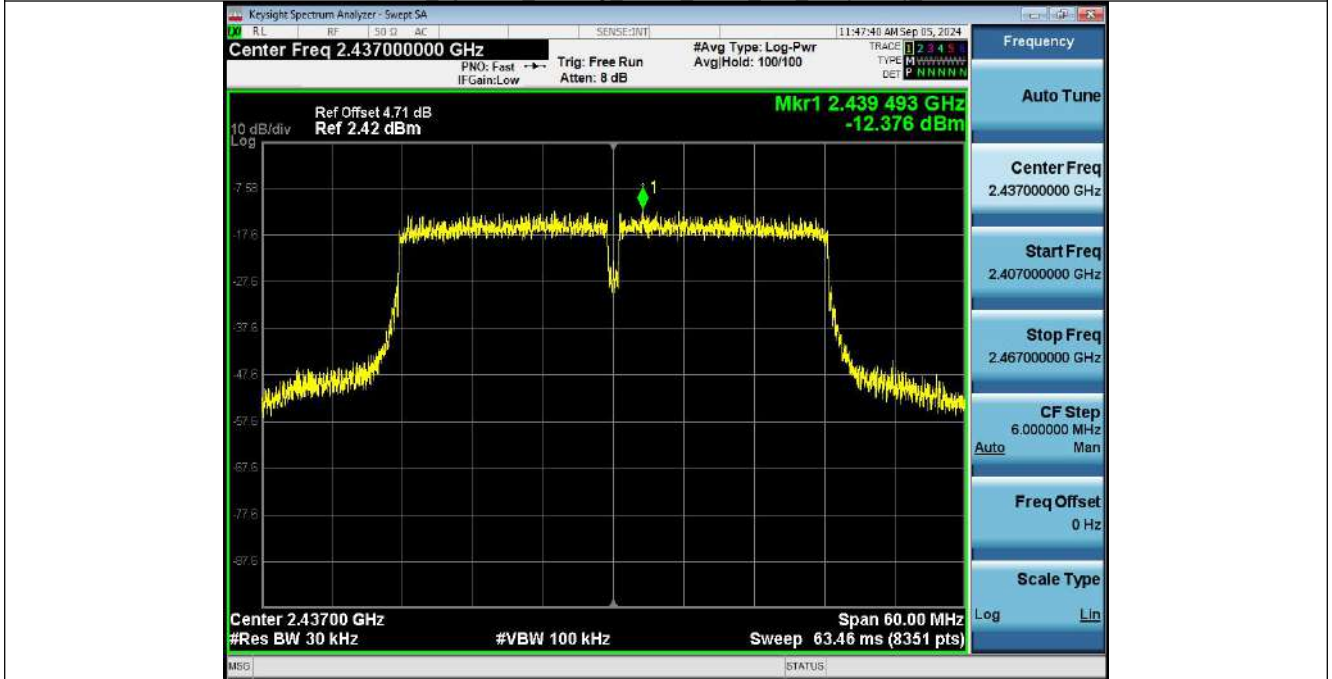
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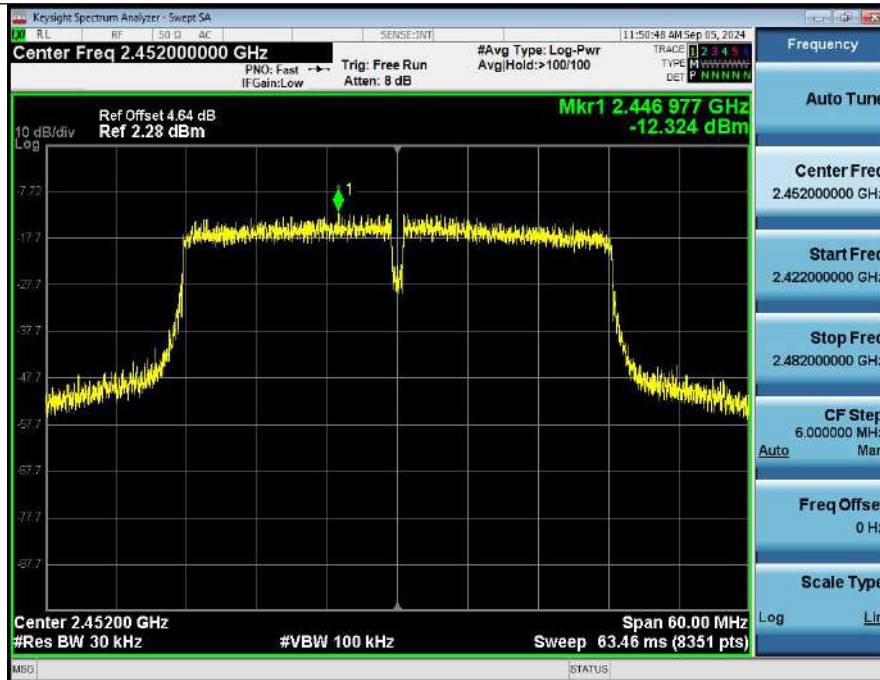
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



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	-26.948	-12.286	Pass
NVNT	ANT1	802.11b	2462.00	2484.544	-52.112	-13.194	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-33.141	-21.264	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-41.906	-21.028	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.032	-35.877	-23.694	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	-47.364	-24.441	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-38.393	-26.679	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-46.470	-27.369	Pass

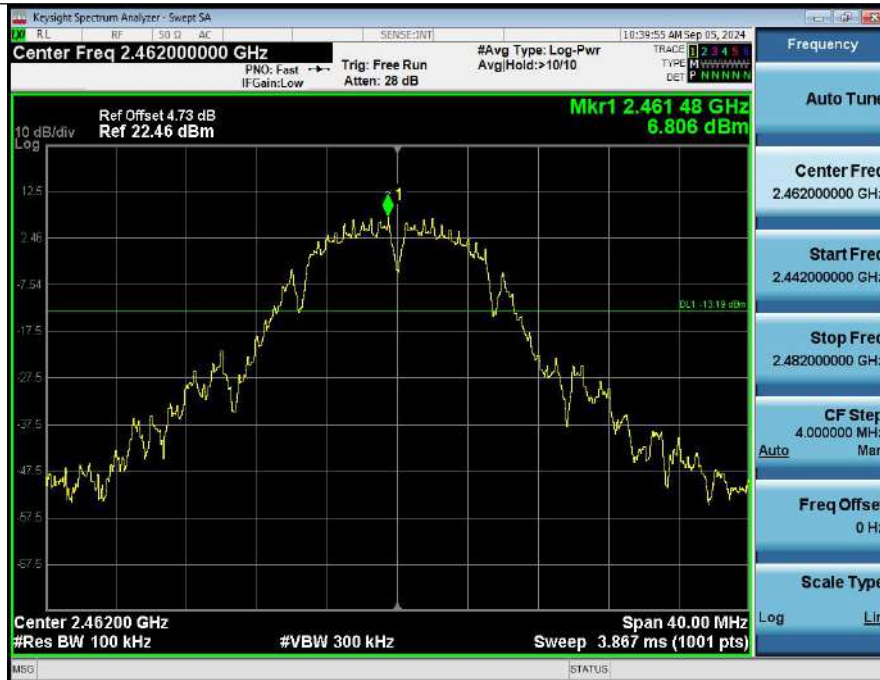
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2 Bandedge_NVNT_ANT1_802_11b_2412



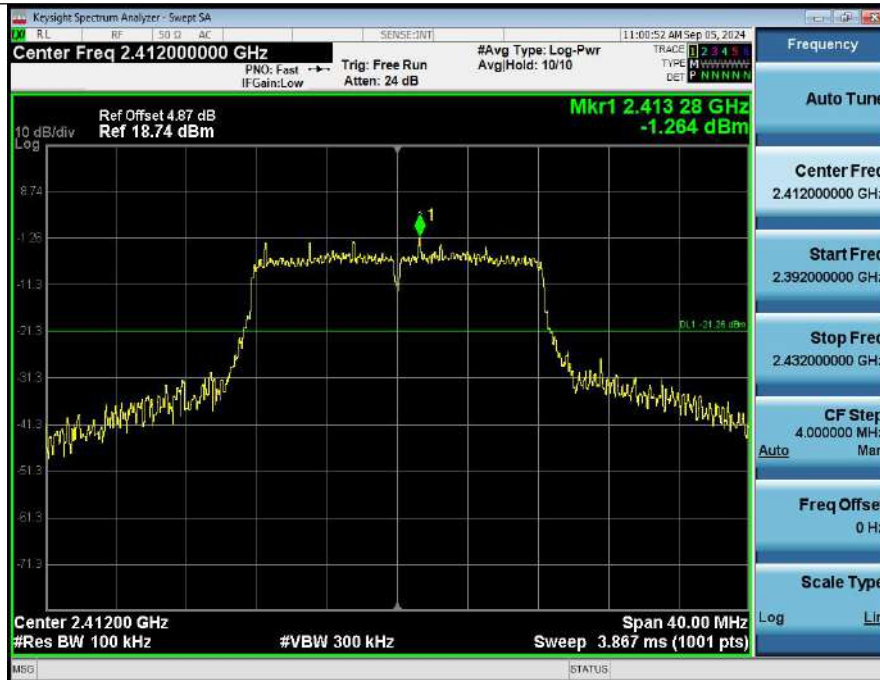
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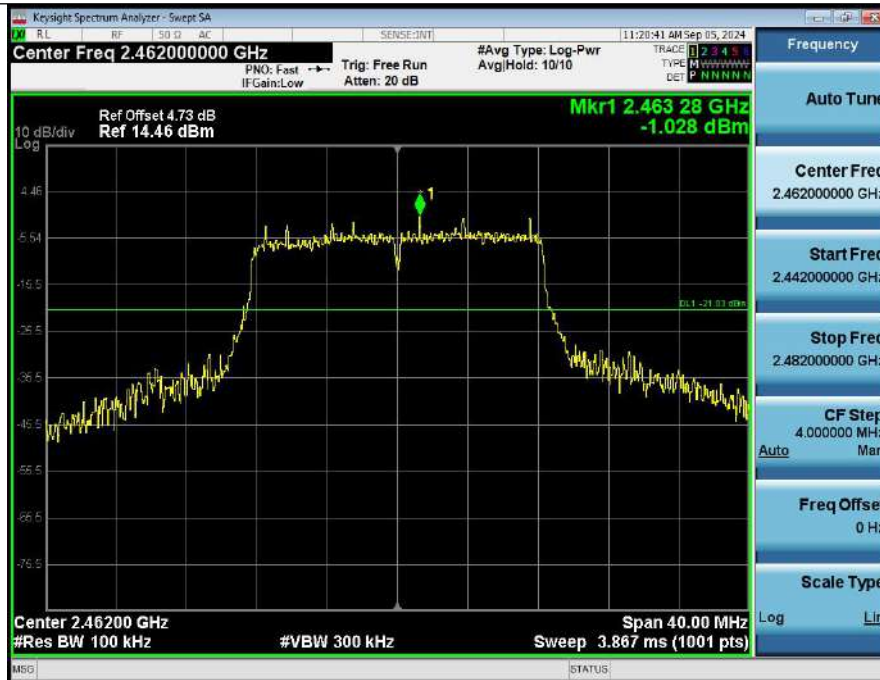
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2_Bandedge_NVNT_ANT1_802_11g_2412



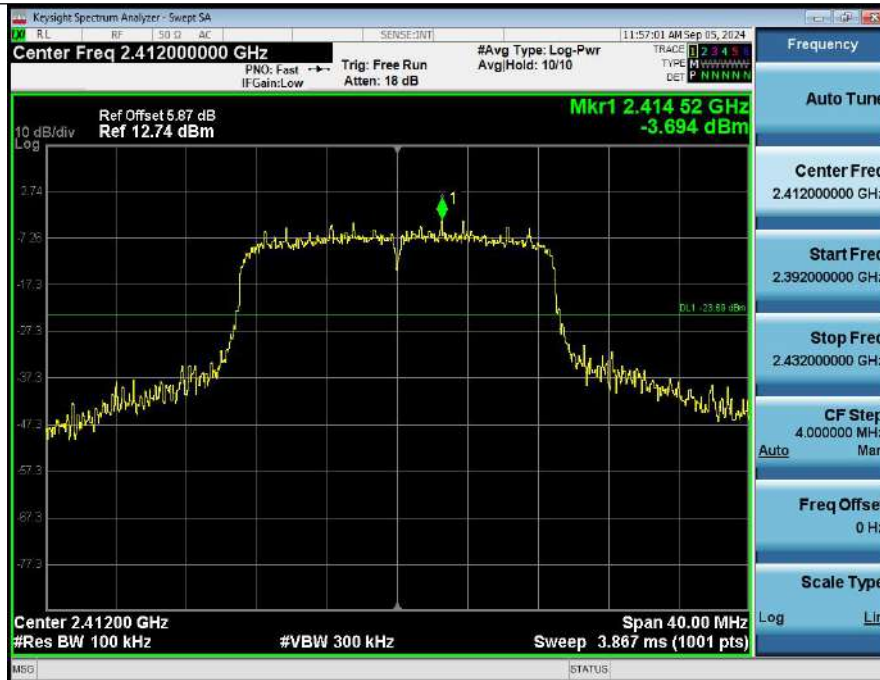
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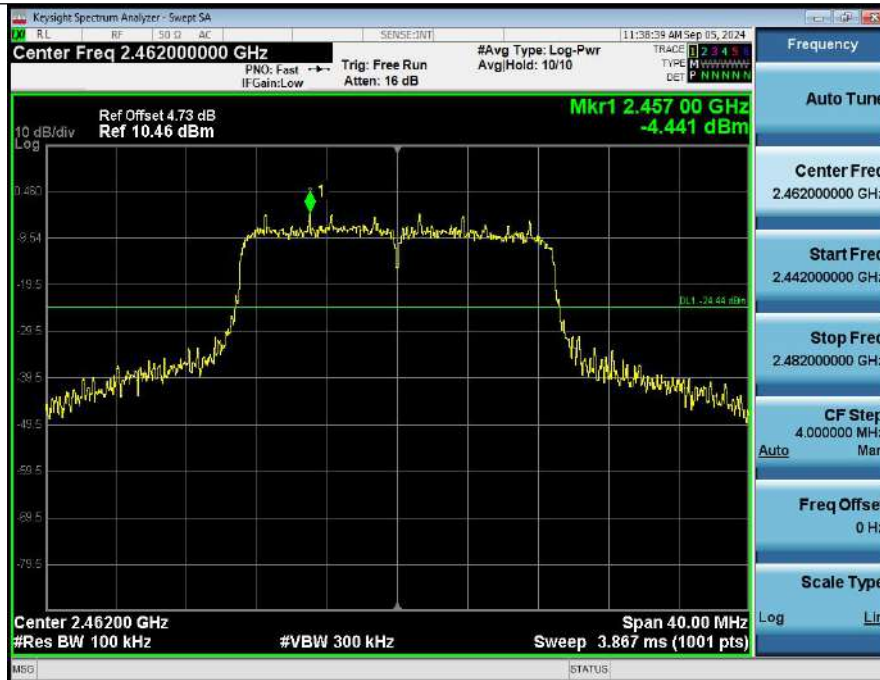
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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



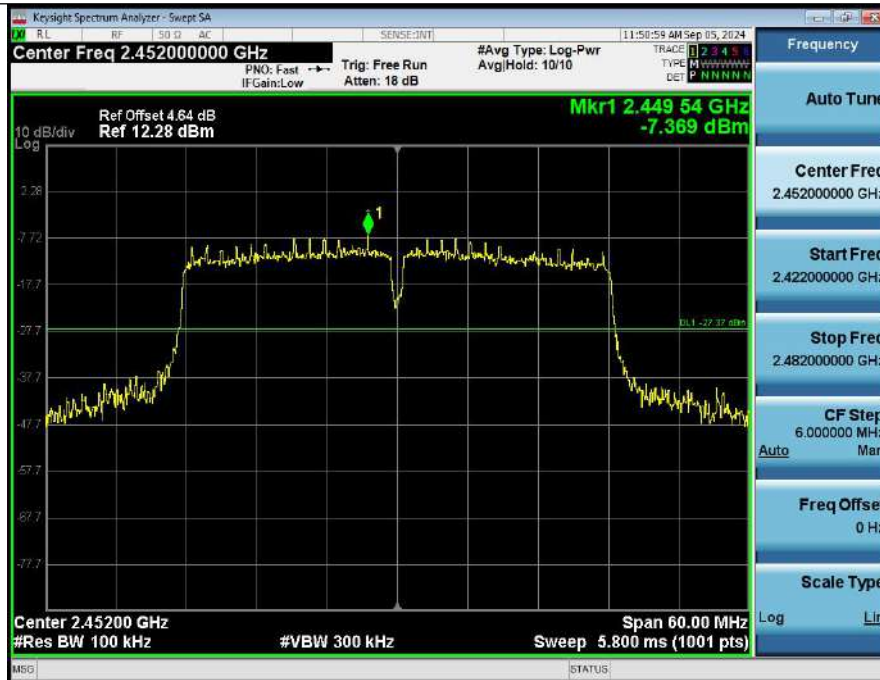
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2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



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	24420.696	-48.963	-12.286	Pass
NVNT	ANT1	802.11b	2437.00	24585.498	-48.382	-13.138	Pass
NVNT	ANT1	802.11b	2462.00	24975.030	-48.029	-13.194	Pass
NVNT	ANT1	802.11g	2412.00	24992.509	-53.282	-21.264	Pass
NVNT	ANT1	802.11g	2437.00	24955.054	-52.799	-21.762	Pass
NVNT	ANT1	802.11g	2462.00	24962.545	-57.402	-21.028	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24992.509	-59.832	-23.694	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24985.018	-55.863	-24.397	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24955.054	-61.147	-24.441	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	5243.736	-61.746	-26.679	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	25000.000	-58.917	-27.683	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	25000.000	-58.787	-27.369	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

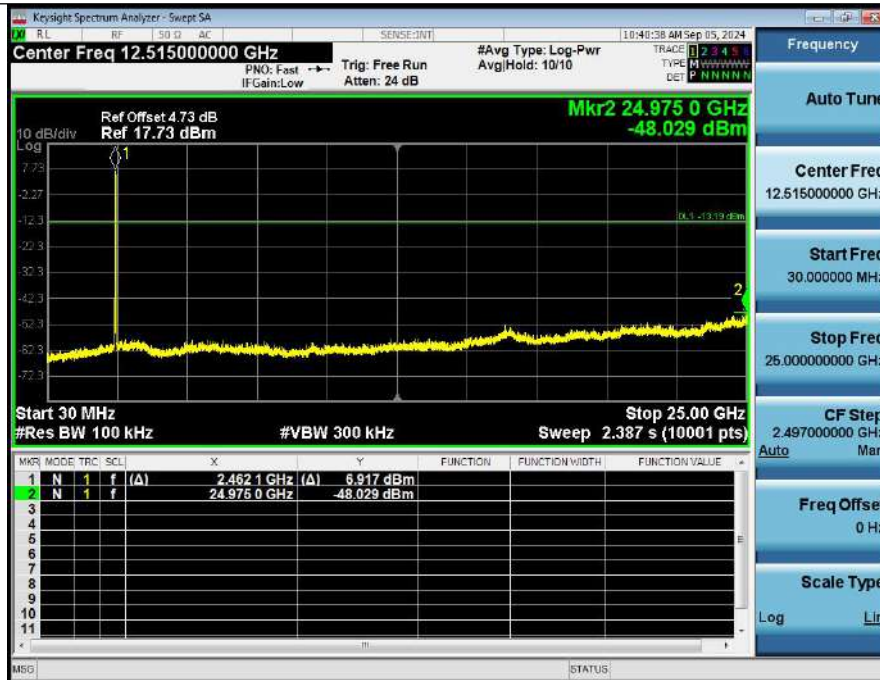


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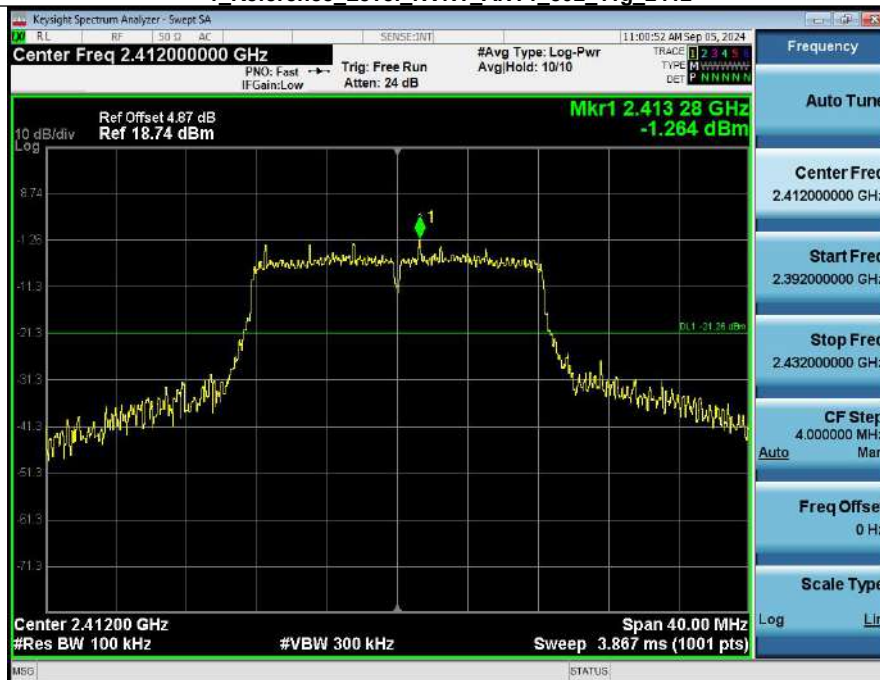


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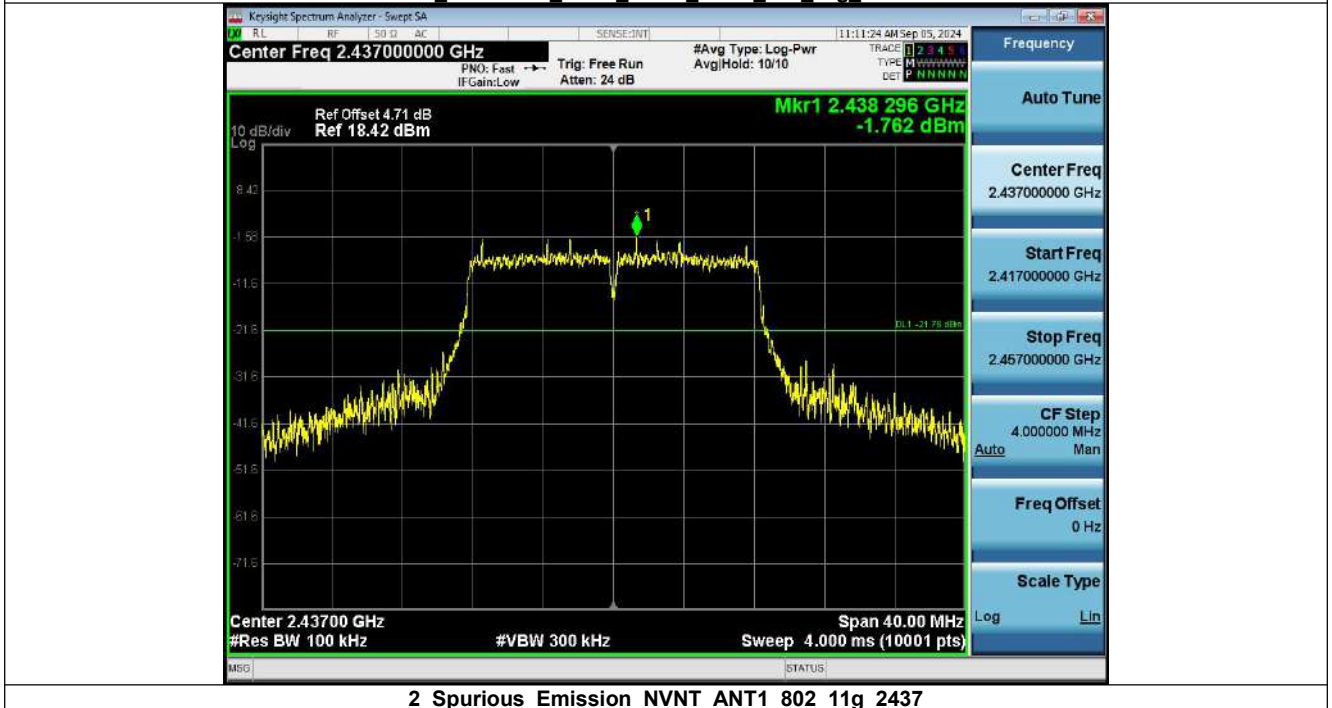
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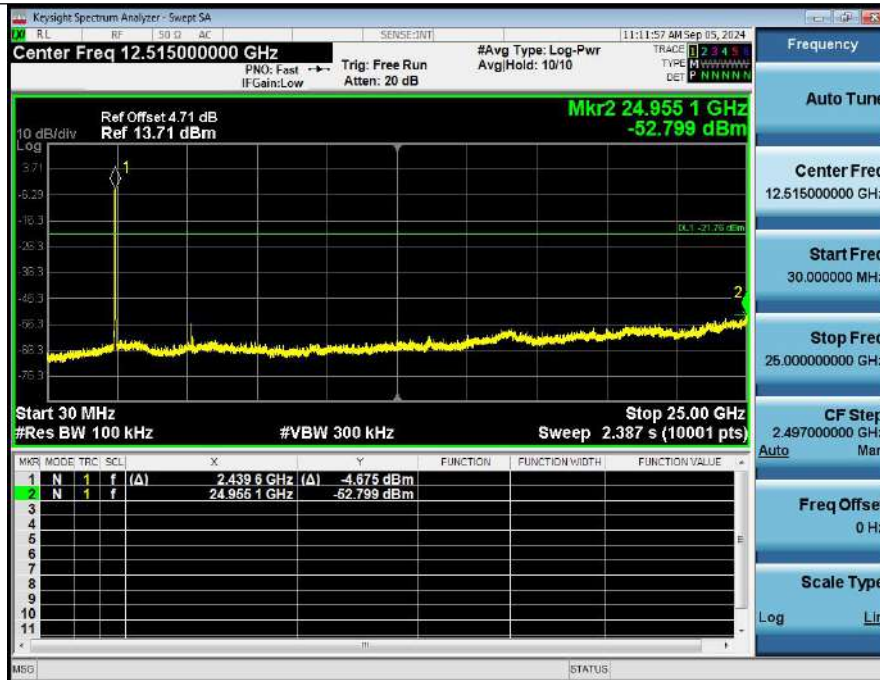
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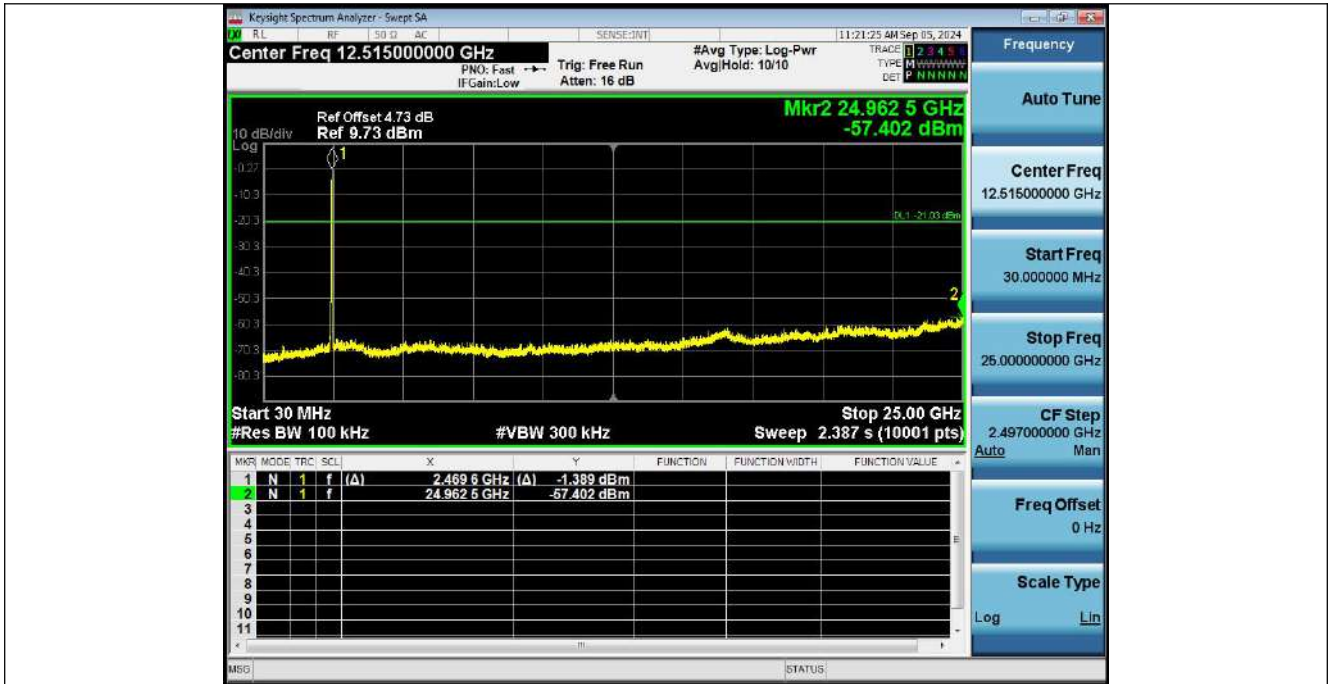
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1 Reference Level NVNT ANT1 802 11g 2462



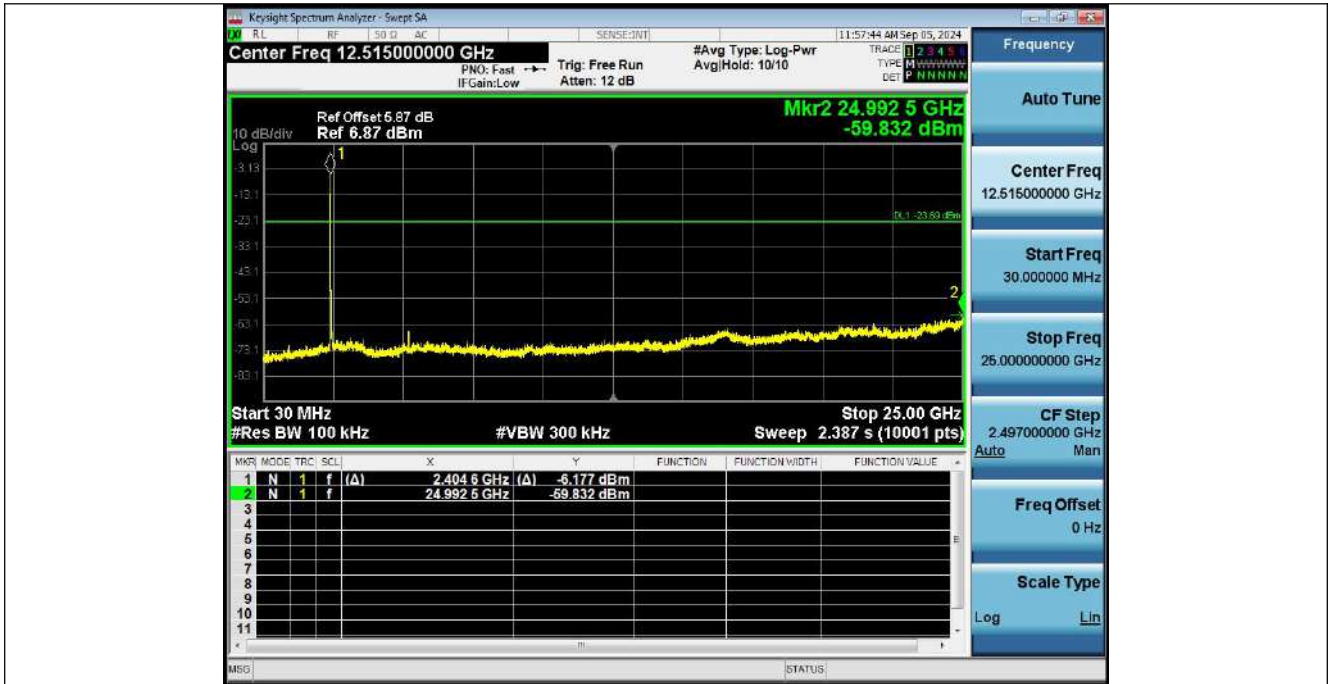
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1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



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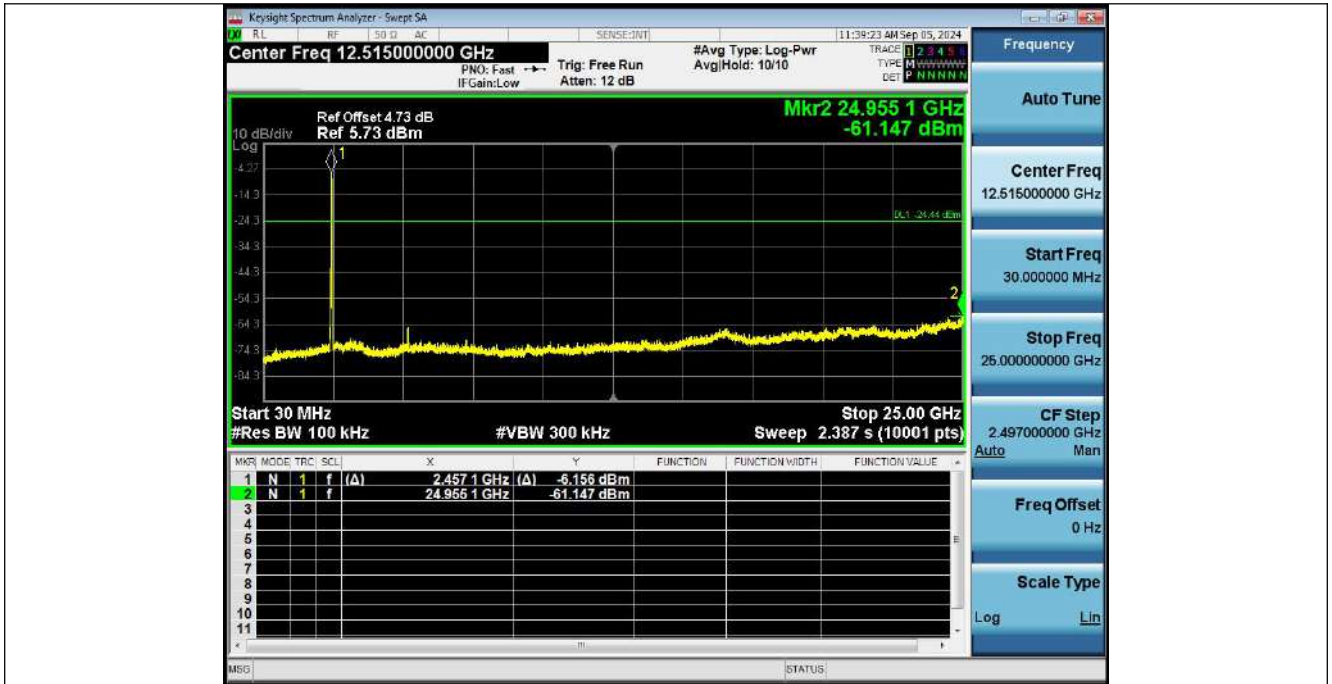
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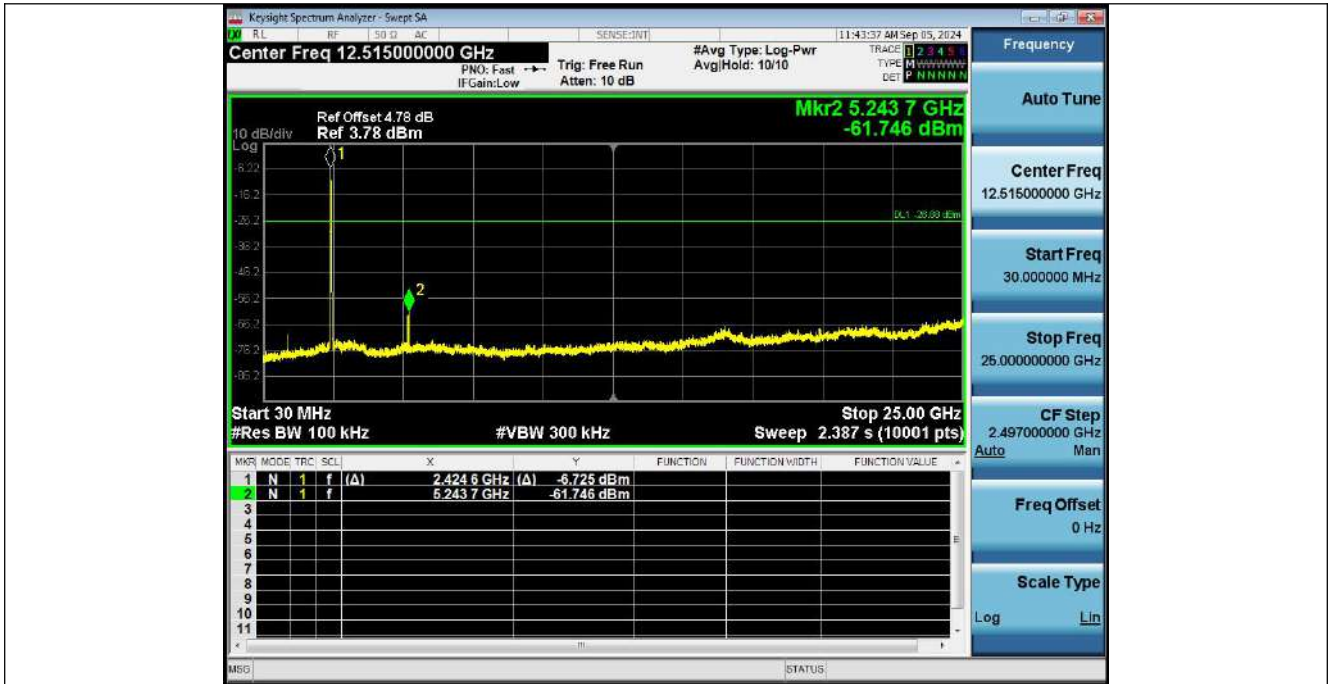
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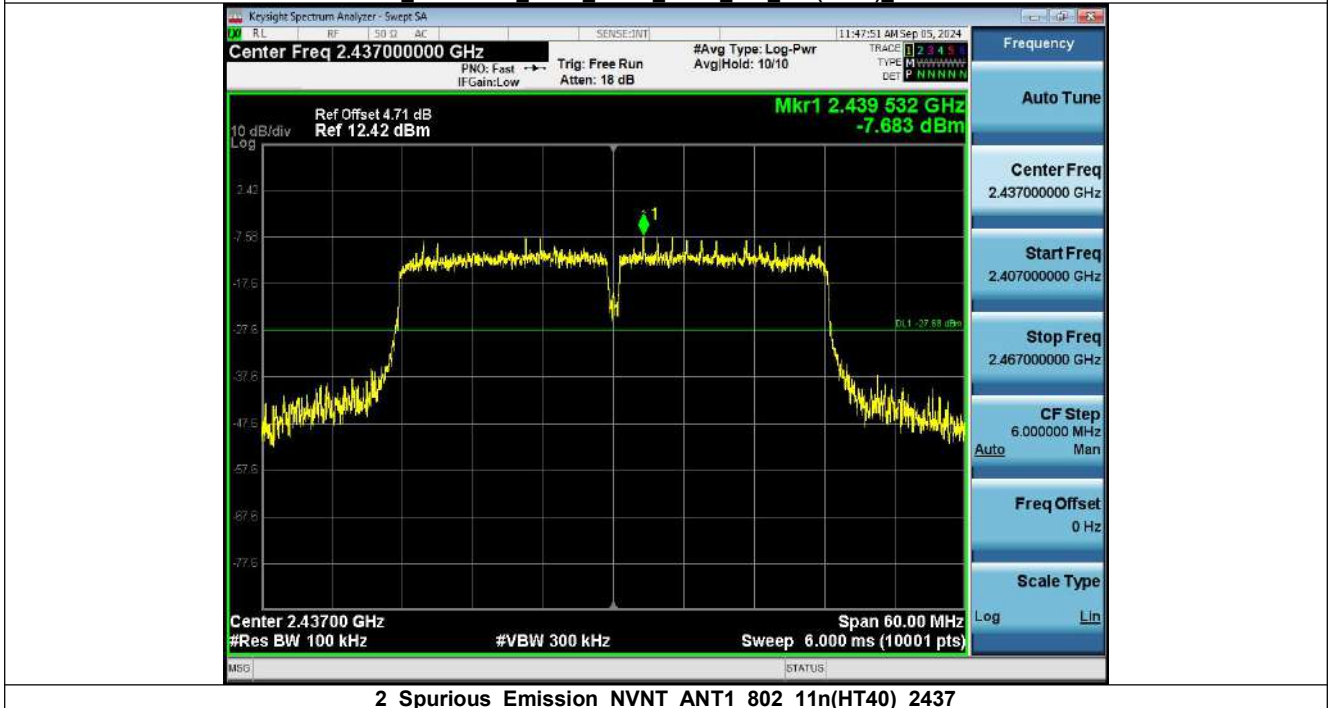
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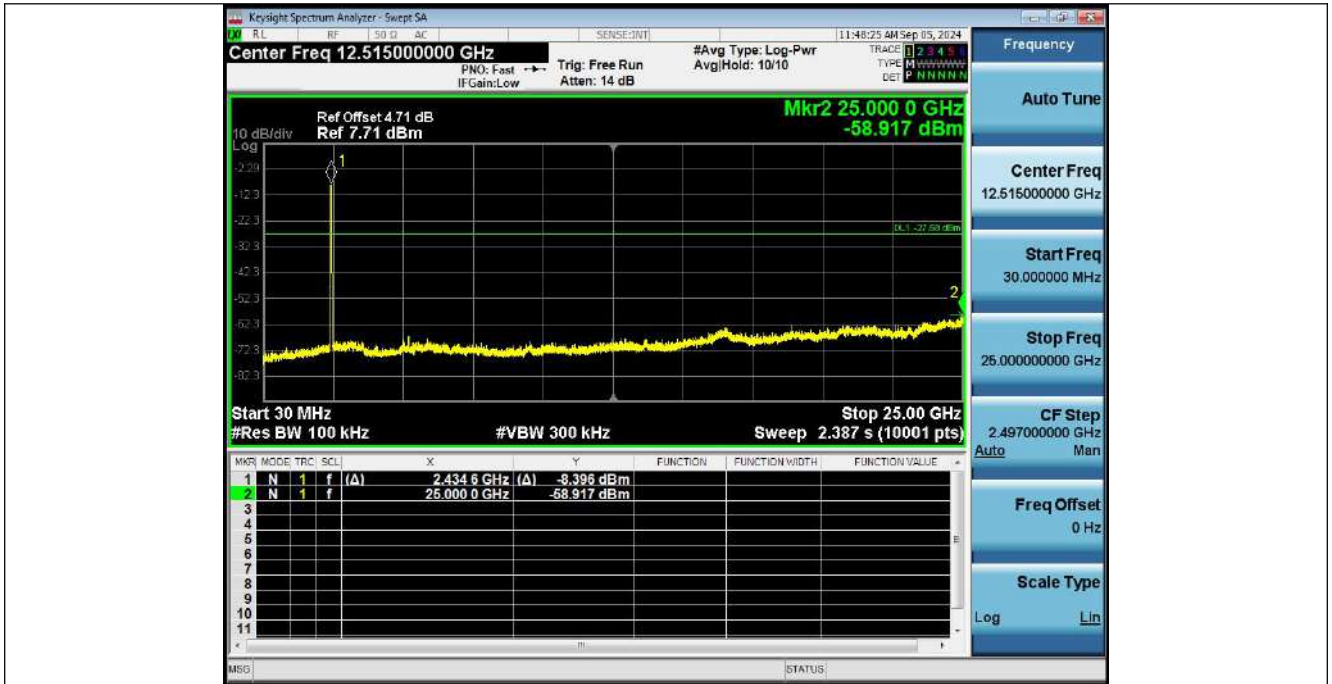
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1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



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

