

Report No.: NCT25033275E1-3
FCC ID:2BHRA-FL30RGBW
FCC ID WIFI 2.4
FCC_2.4G_WIFI (Part15.247) Test Data

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1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.17	500	Pass
NVNT	ANT1	802.11b	2437.00	8.73	500	Pass
NVNT	ANT1	802.11b	2462.00	9.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.32	500	Pass
NVNT	ANT1	802.11g	2437.00	16.36	500	Pass
NVNT	ANT1	802.11g	2462.00	16.43	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.38	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.28	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.42	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

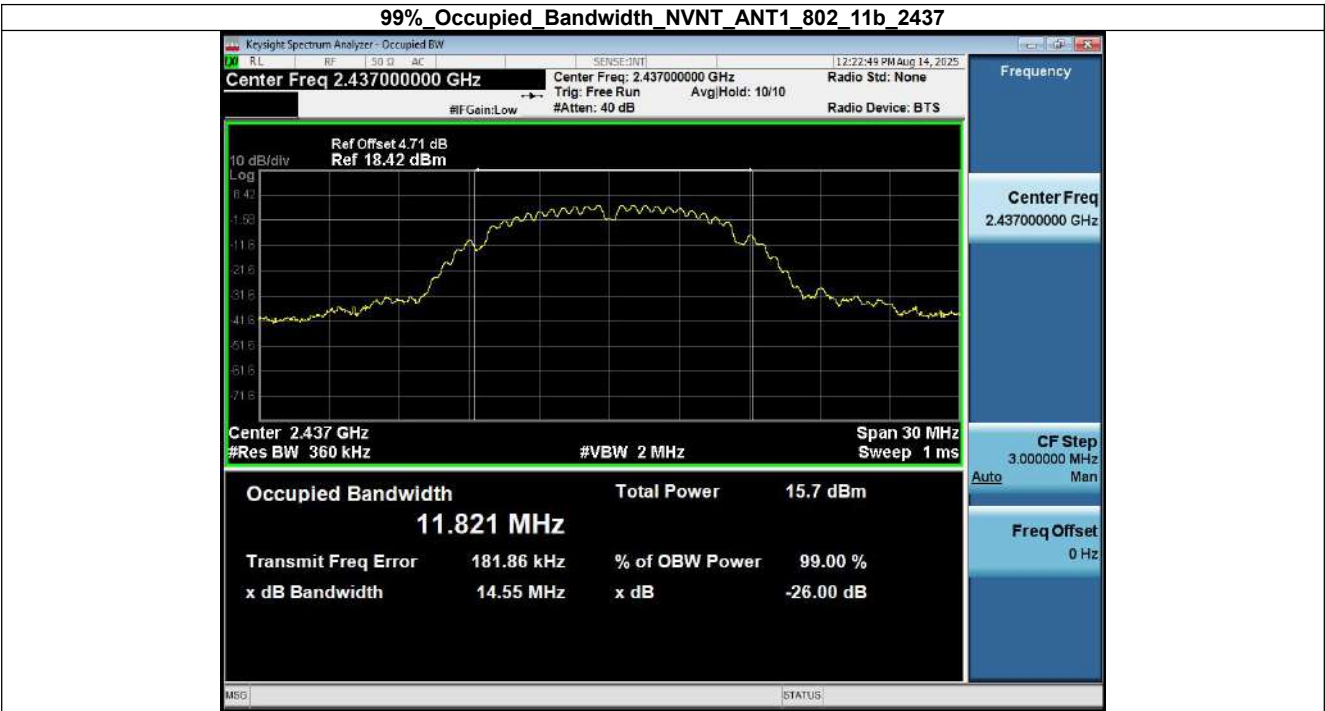
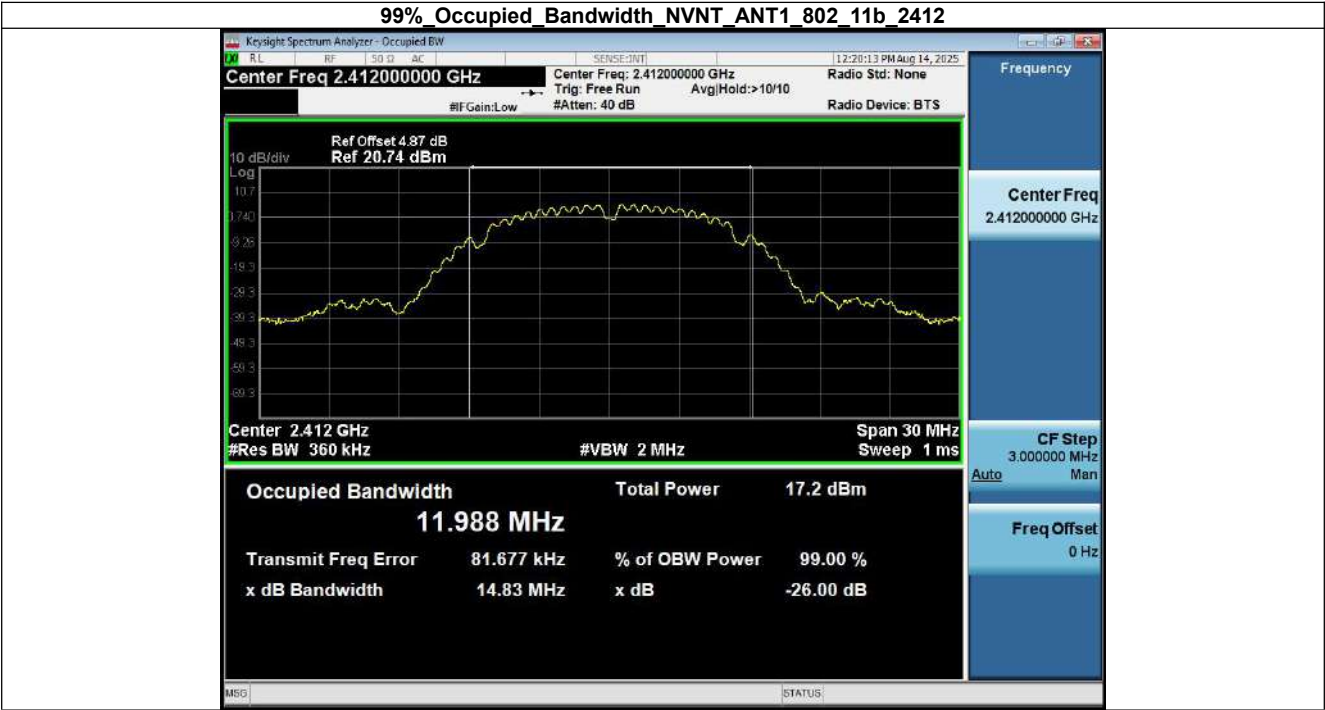


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.988
NVNT	ANT1	802.11b	2437.00	11.821
NVNT	ANT1	802.11b	2462.00	12.349
NVNT	ANT1	802.11g	2412.00	17.495
NVNT	ANT1	802.11g	2437.00	17.261
NVNT	ANT1	802.11g	2462.00	18.219
NVNT	ANT1	802.11n(HT20)	2412.00	17.883
NVNT	ANT1	802.11n(HT20)	2437.00	17.817
NVNT	ANT1	802.11n(HT20)	2462.00	18.268



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

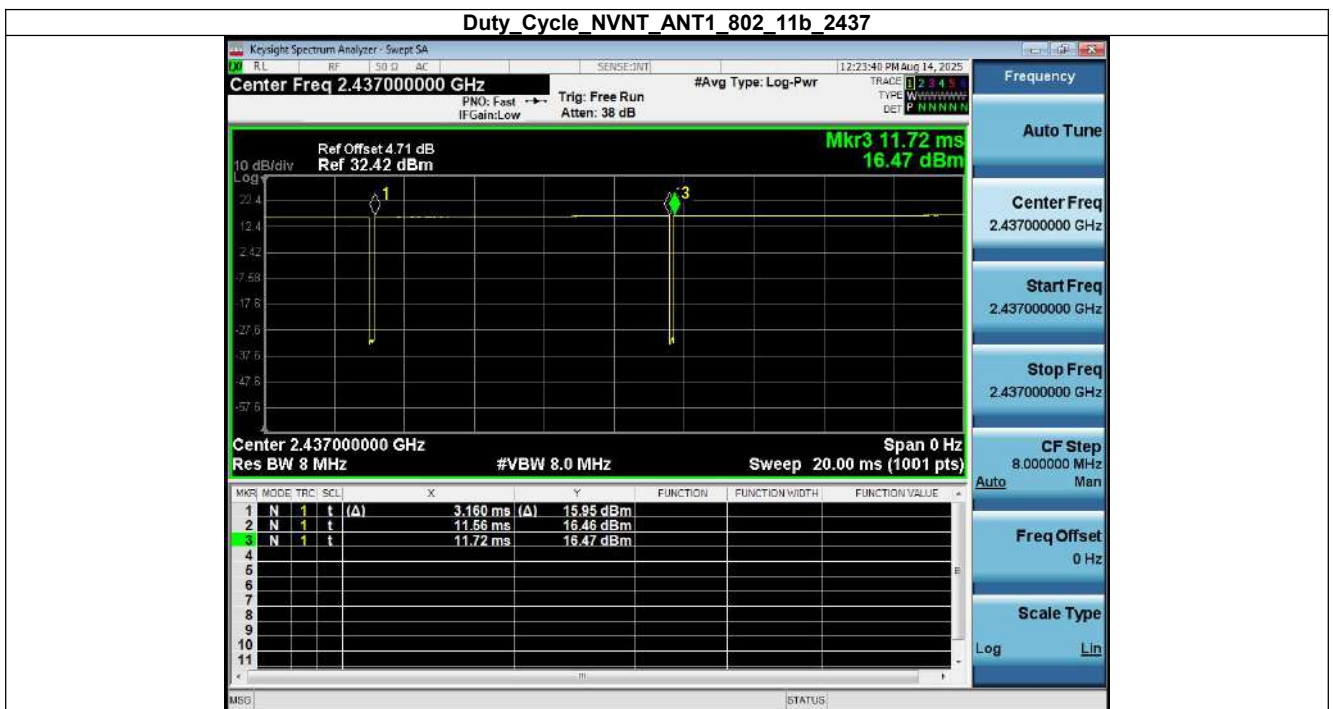
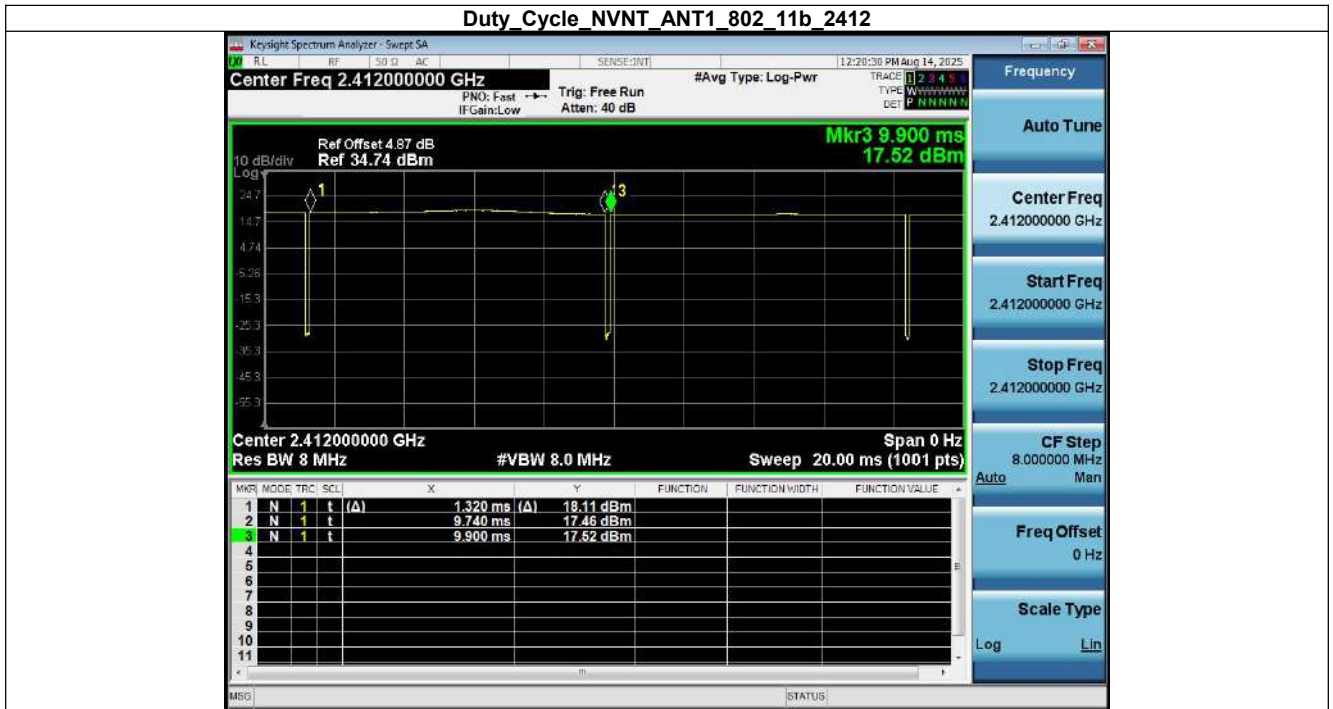


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

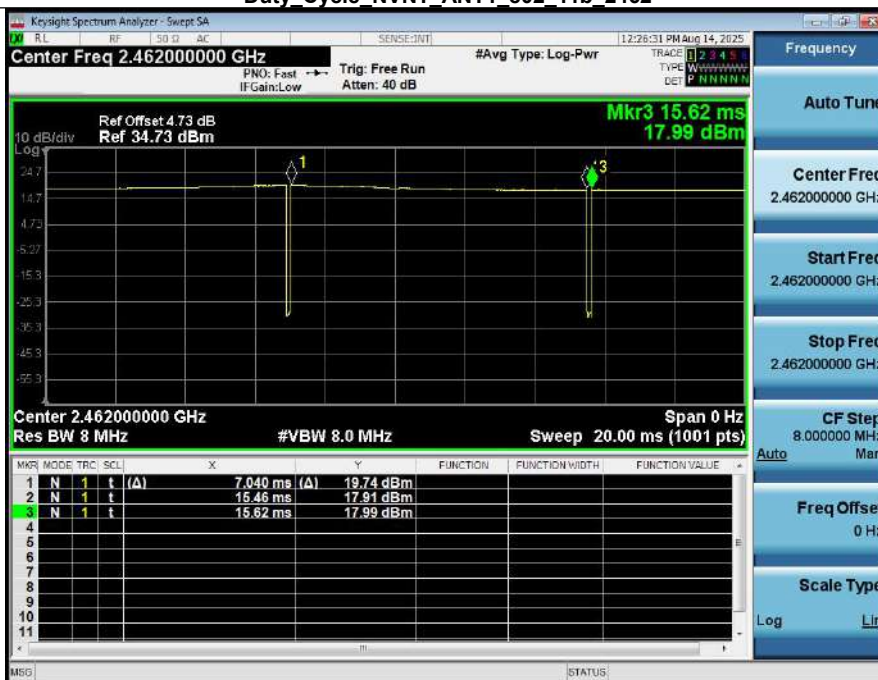


3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.37	0.00
NVNT	ANT1	802.11b	2437.00	98.36	0.00
NVNT	ANT1	802.11b	2462.00	98.37	0.00
NVNT	ANT1	802.11g	2412.00	92.21	0.35
NVNT	ANT1	802.11g	2437.00	77.17	1.13
NVNT	ANT1	802.11g	2462.00	92.21	0.35
NVNT	ANT1	802.11n(HT20)	2412.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2437.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2462.00	89.55	0.48



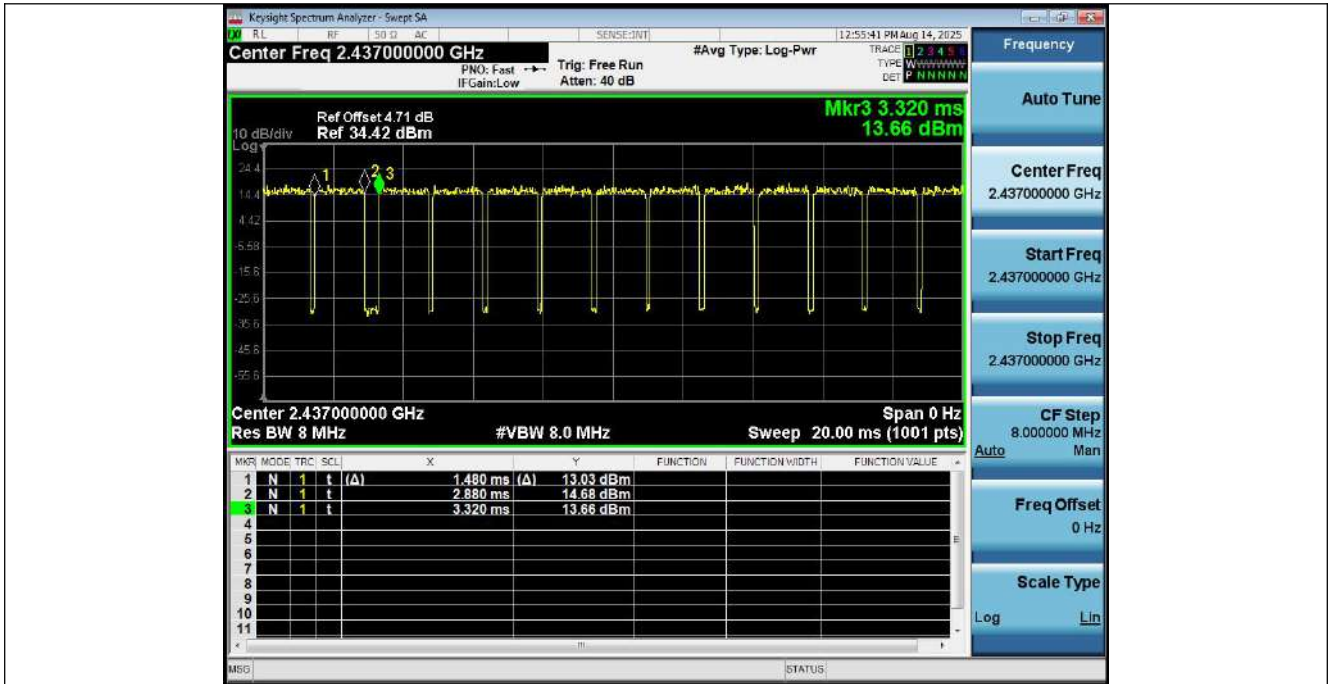
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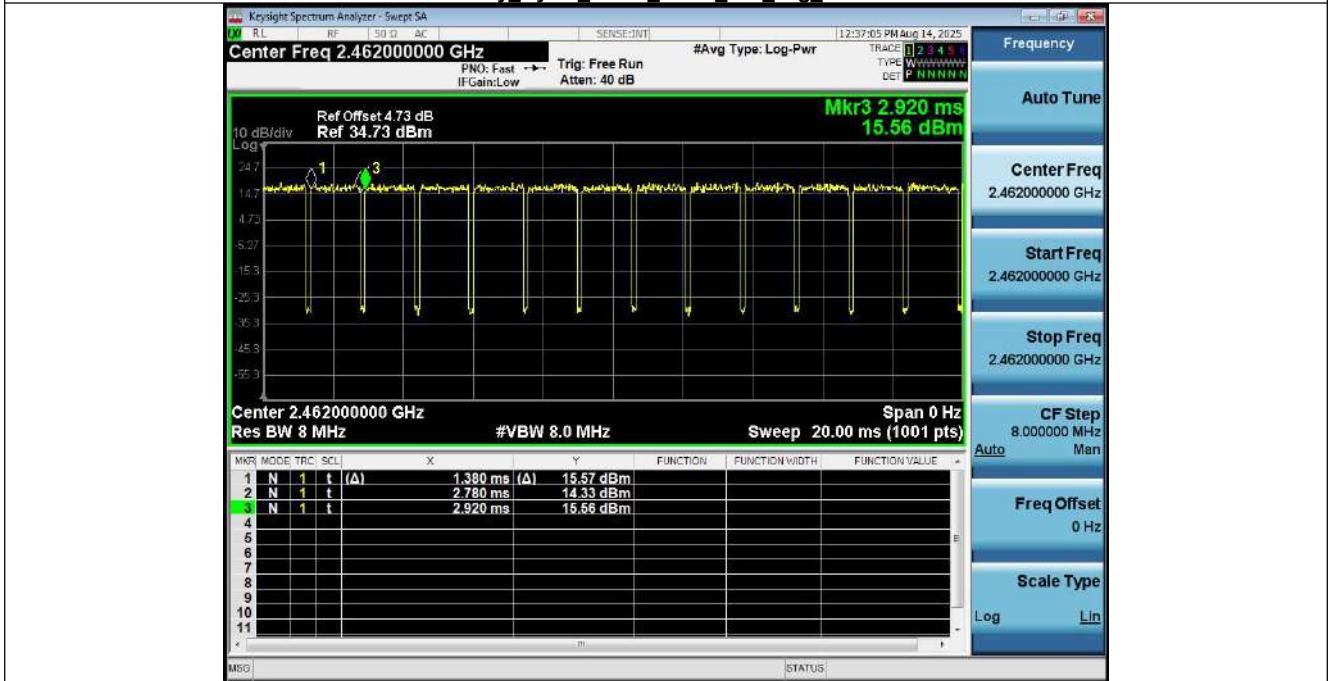
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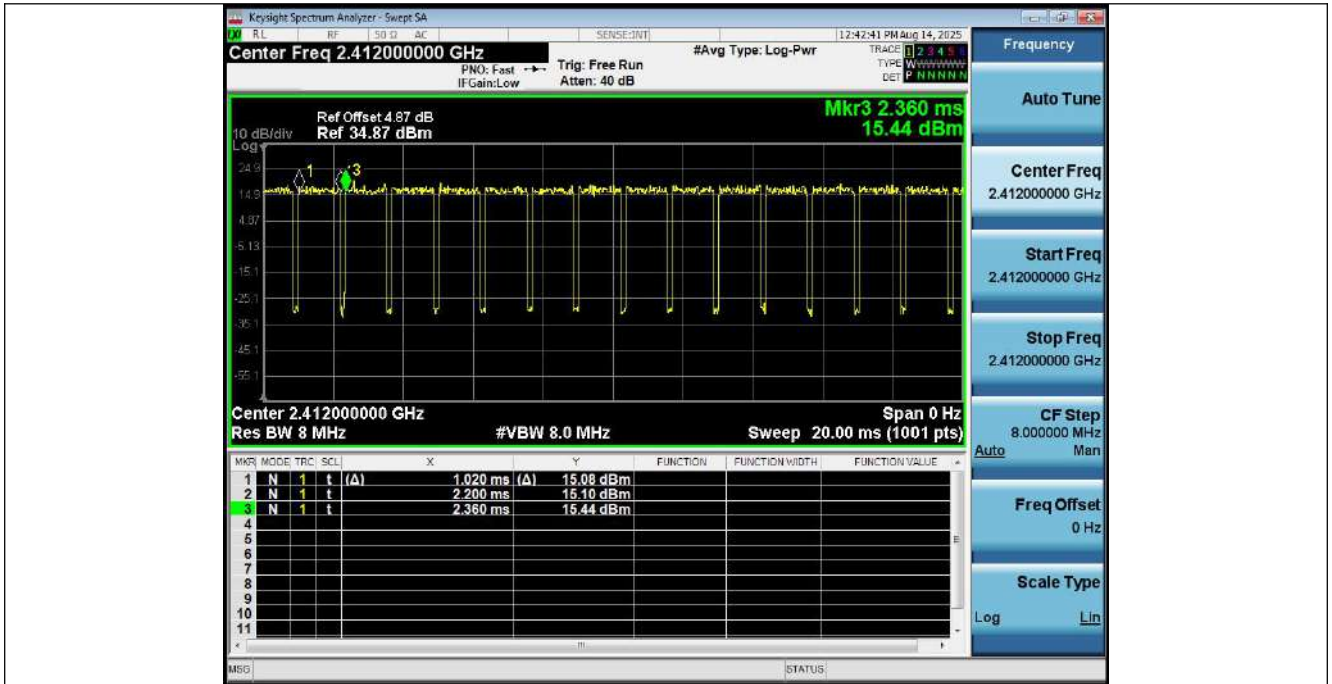
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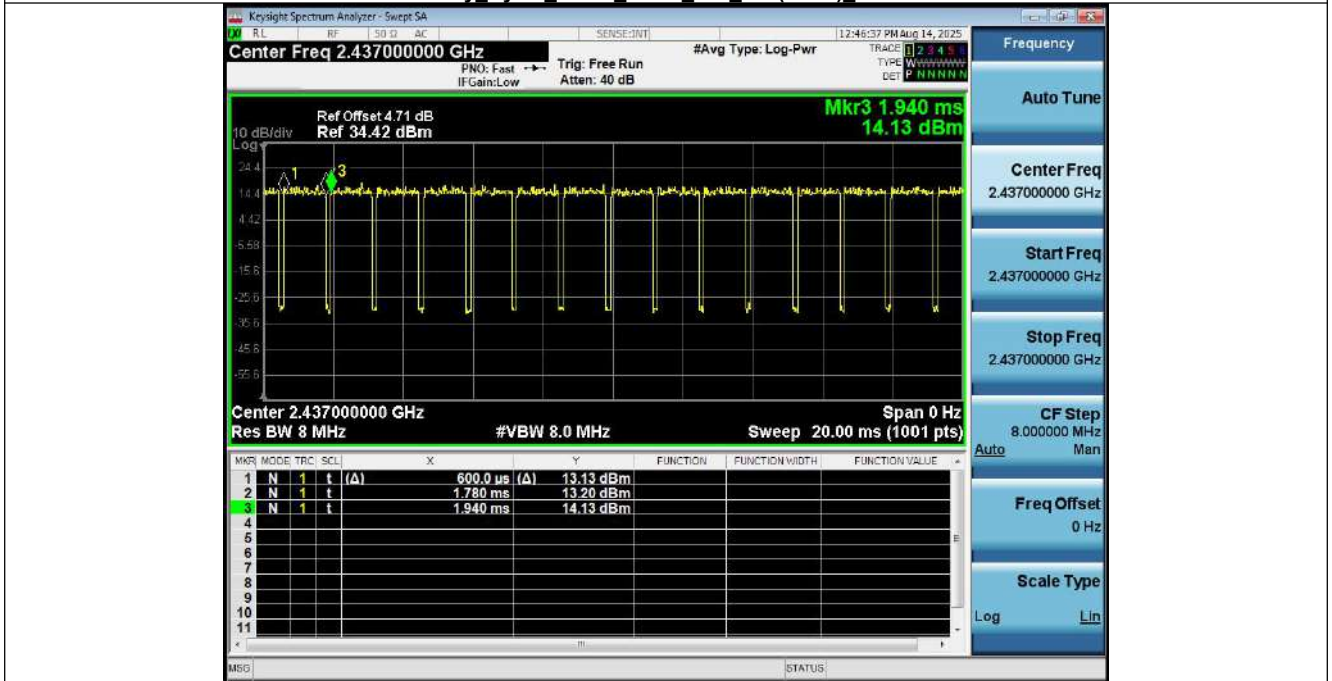
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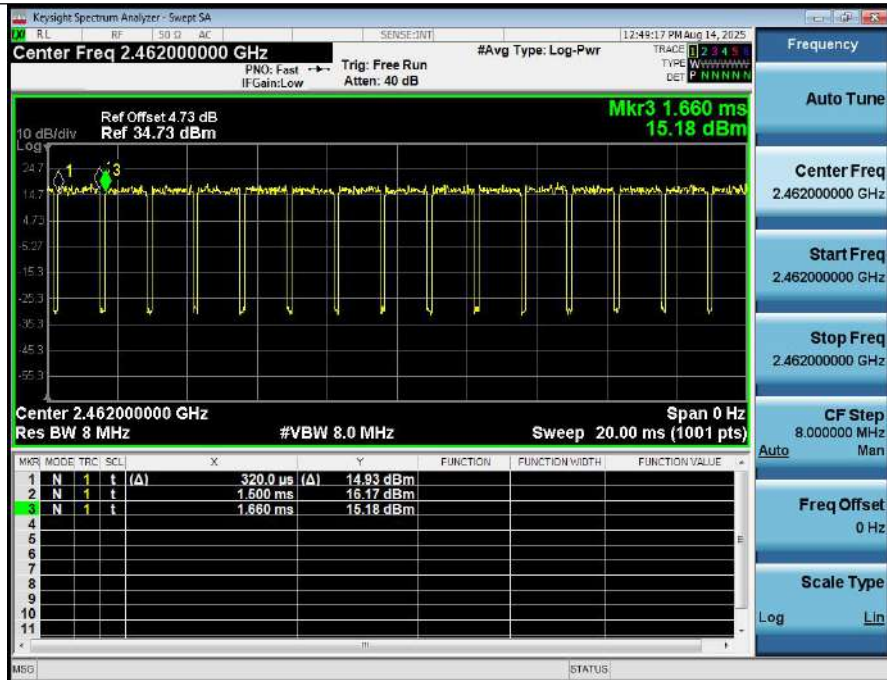
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



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)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	16.39	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	14.90	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	16.97	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	19.73	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	18.46	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	20.32	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	20.14	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	18.69	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	20.52	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.44	-10.00	-8.56	8	Pass
NVNT	ANT1	802.11b	2437.00	0.23	-10.00	-9.77	8	Pass
NVNT	ANT1	802.11b	2462.00	1.88	-10.00	-8.13	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.49	-10.00	-11.49	8	Pass
NVNT	ANT1	802.11g	2437.00	-2.54	-10.00	-12.54	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.32	-10.00	-11.32	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-2.67	-10.00	-12.66	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-4.07	-10.00	-14.07	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.17	-10.00	-13.17	8	Pass



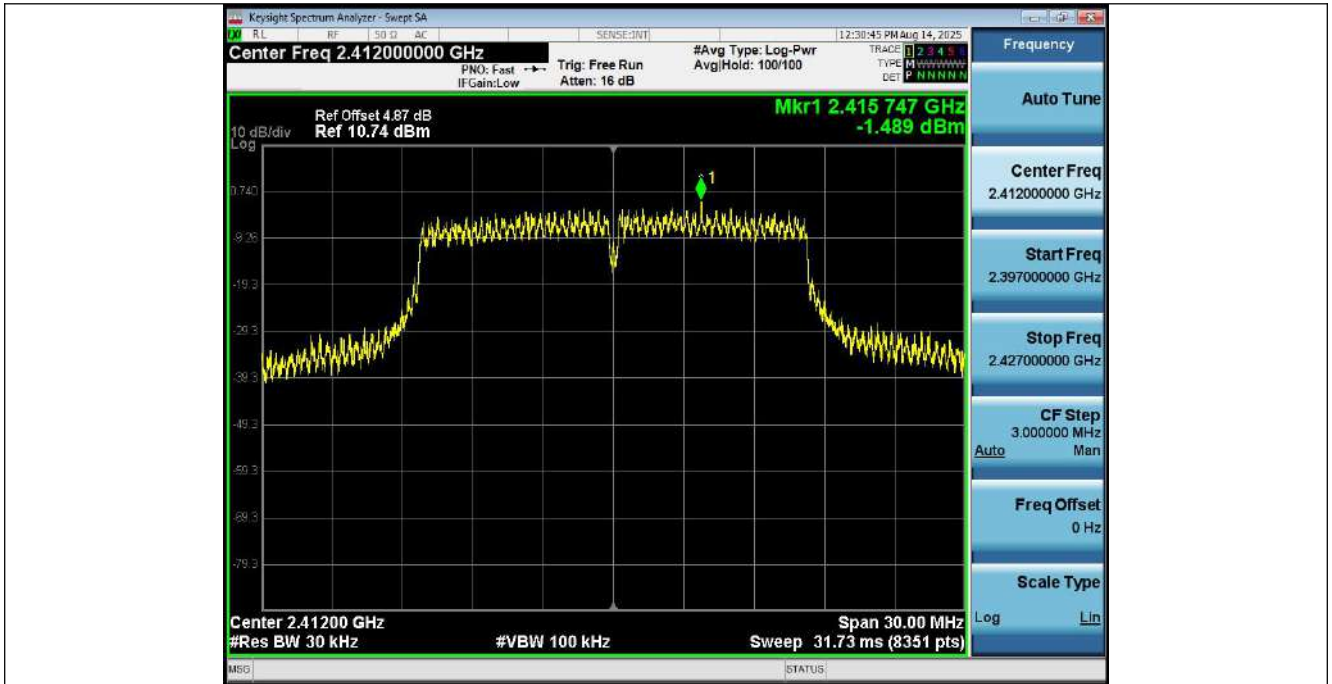
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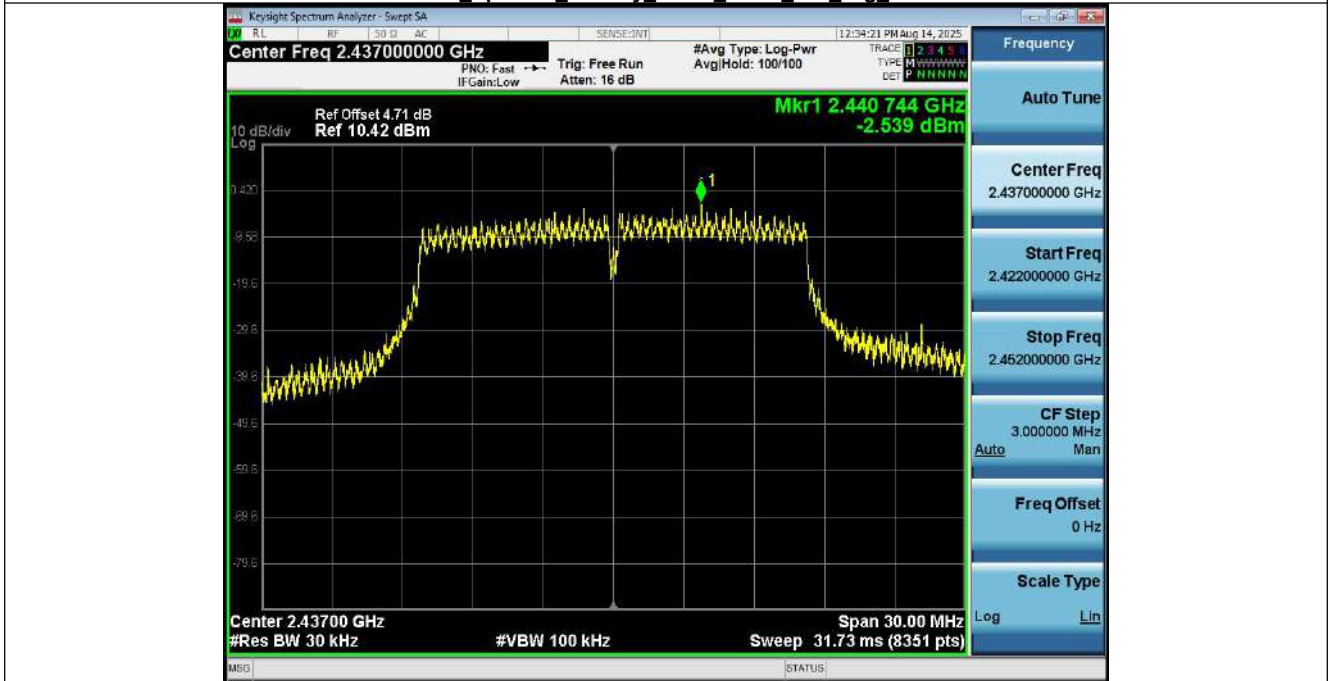
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Power_Spectral_Density_NVNT_ANT1_802_11g_2412



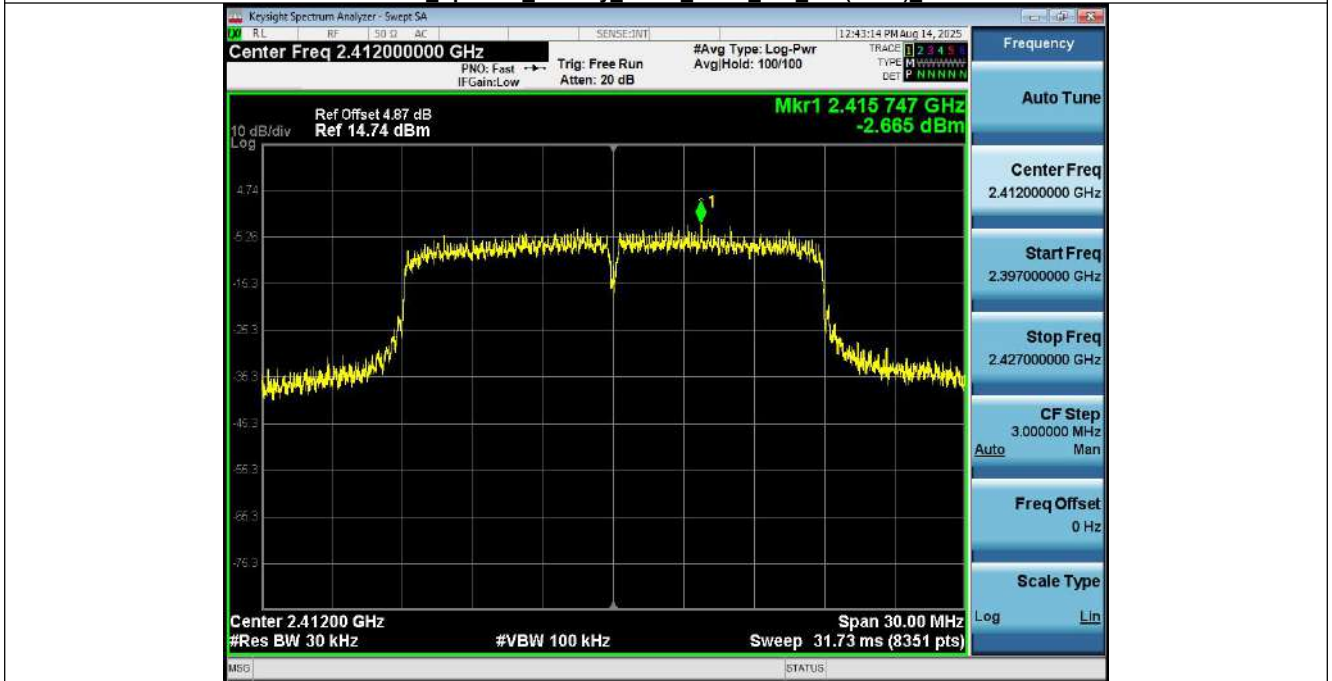
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Power_Spectral_Density_NVNT_ANT1_802_11g_2462



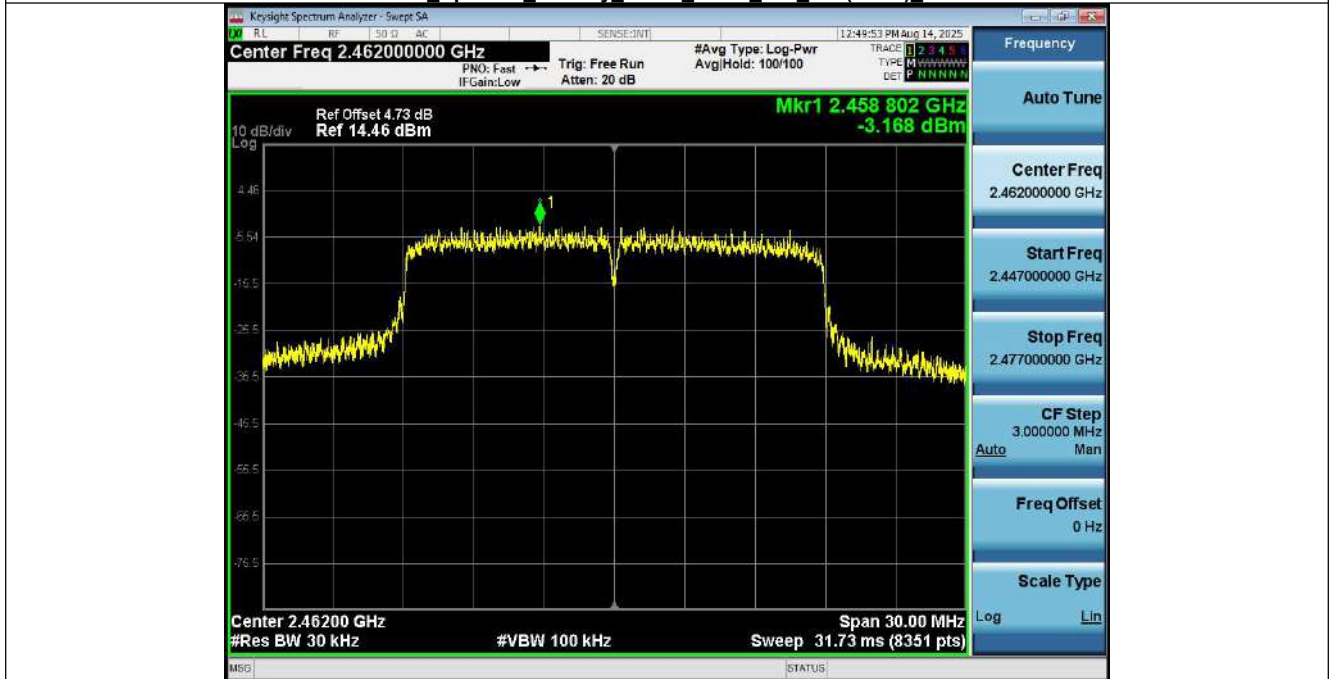
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power Spectral Density NVNT ANT1 802 11n(HT20) 2462



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	5.311	-37.188	-14.689	Pass
NVNT	ANT1	802.11b	2462.00	2486.752	5.377	-51.448	-14.623	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	2.307	-26.806	-17.693	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	2.488	-37.586	-17.512	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	1.585	-27.416	-18.415	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.496	1.863	-37.053	-18.137	Pass



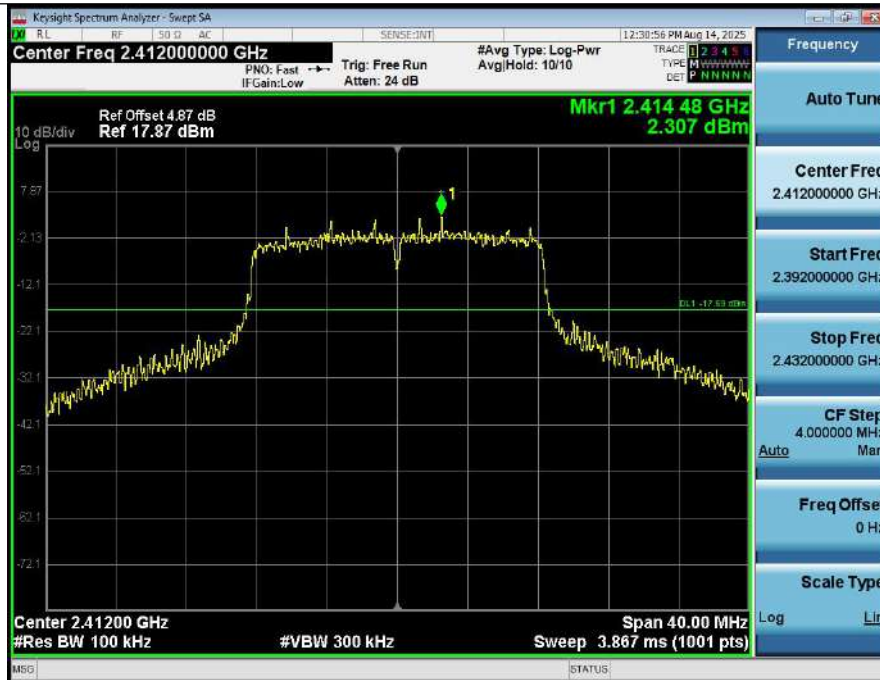
1 Reference Level NVNT ANT1 802 11b 2462



2_Bandedge_NVNT_ANT1_802_11b_2462



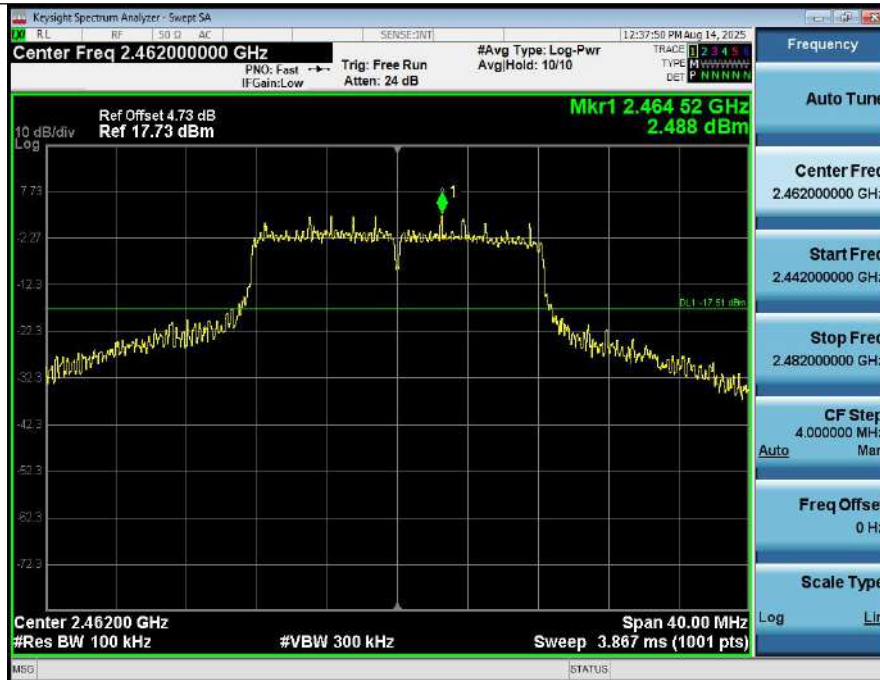
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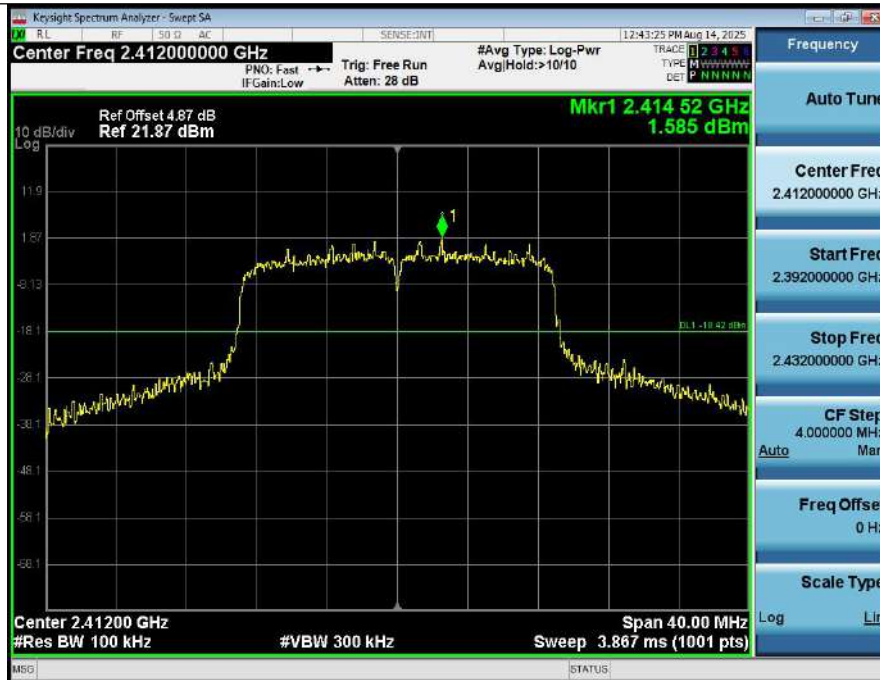
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2_Bandedge_NVNT_ANT1_802_11g_2462



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



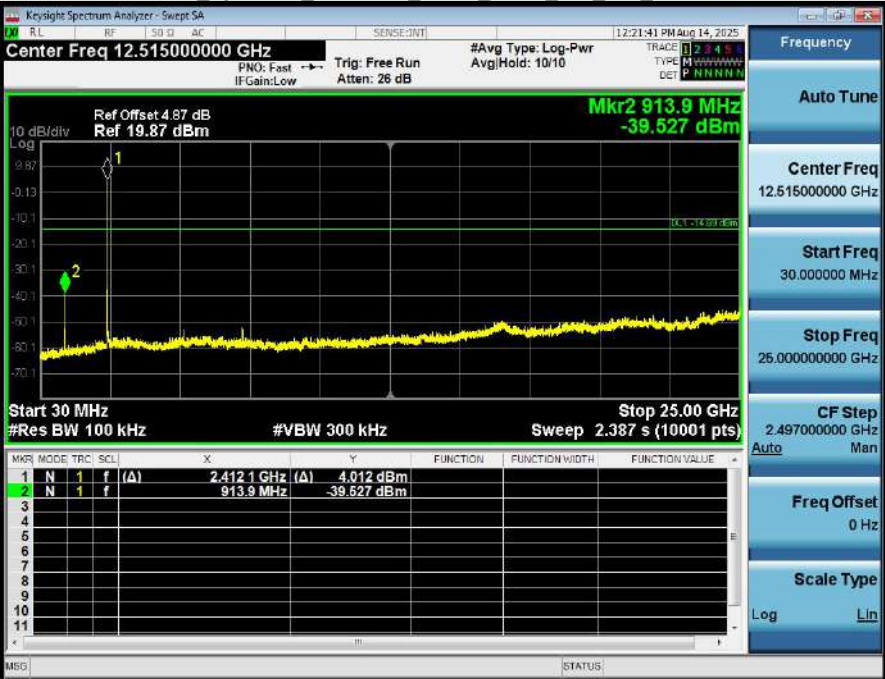
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	913.938	5.311	-39.527	-14.689	Pass
NVNT	ANT1	802.11b	2437.00	24962.545	3.671	-41.267	-16.329	Pass
NVNT	ANT1	802.11b	2462.00	24967.539	5.377	-39.508	-14.623	Pass
NVNT	ANT1	802.11g	2412.00	24972.533	2.307	-47.300	-17.693	Pass
NVNT	ANT1	802.11g	2437.00	24967.539	1.088	-42.577	-18.912	Pass
NVNT	ANT1	802.11g	2462.00	24995.006	2.488	-45.875	-17.512	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24990.012	1.585	-42.349	-18.415	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24992.509	-0.117	-49.127	-20.117	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24962.545	1.863	-42.652	-18.137	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



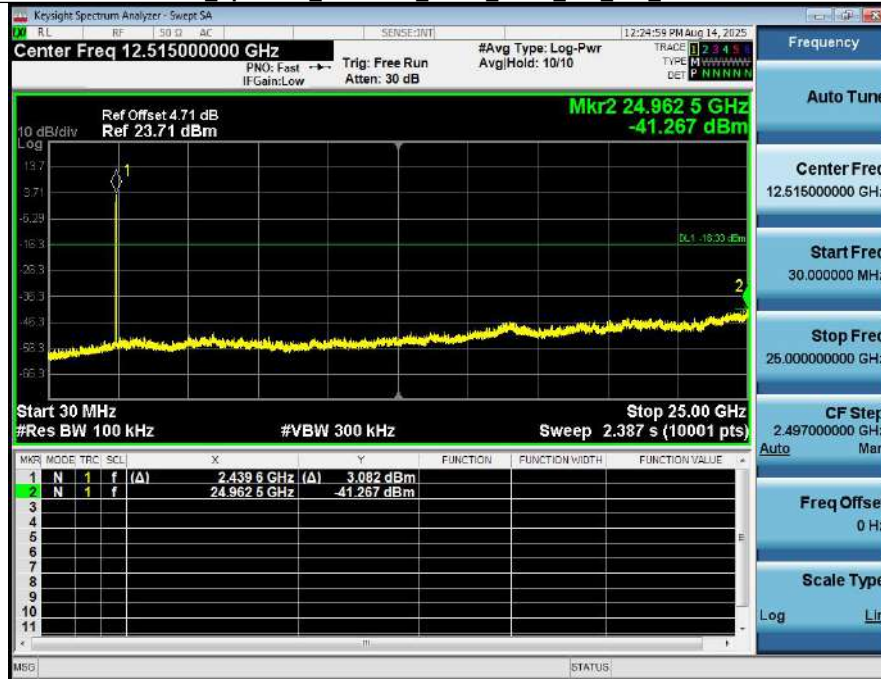
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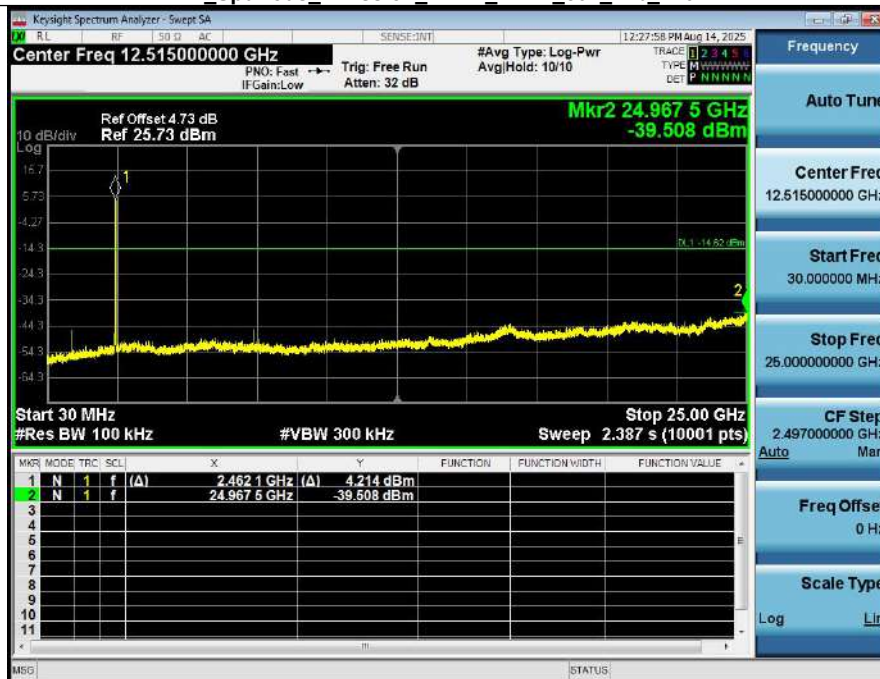
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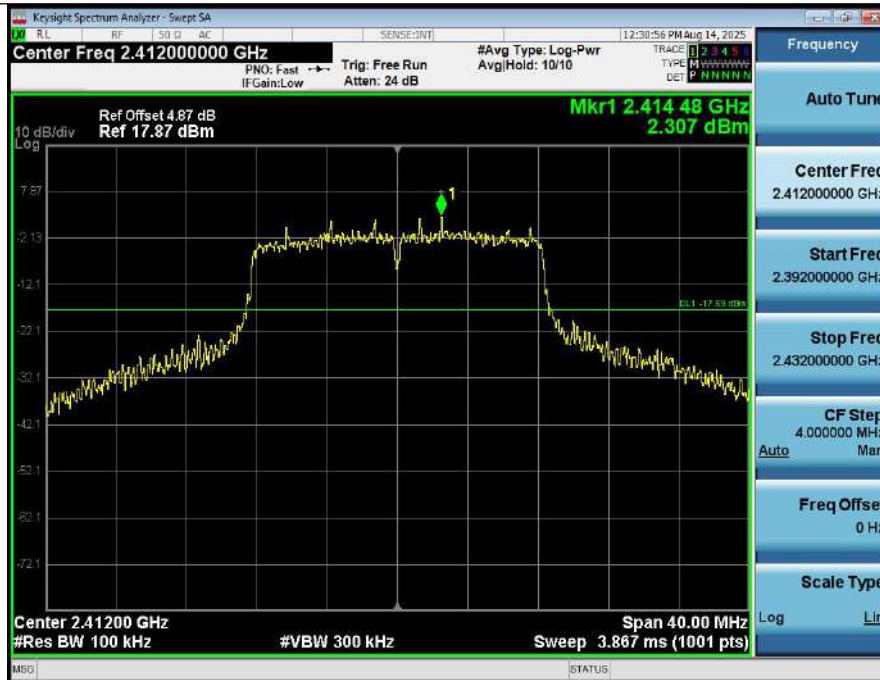
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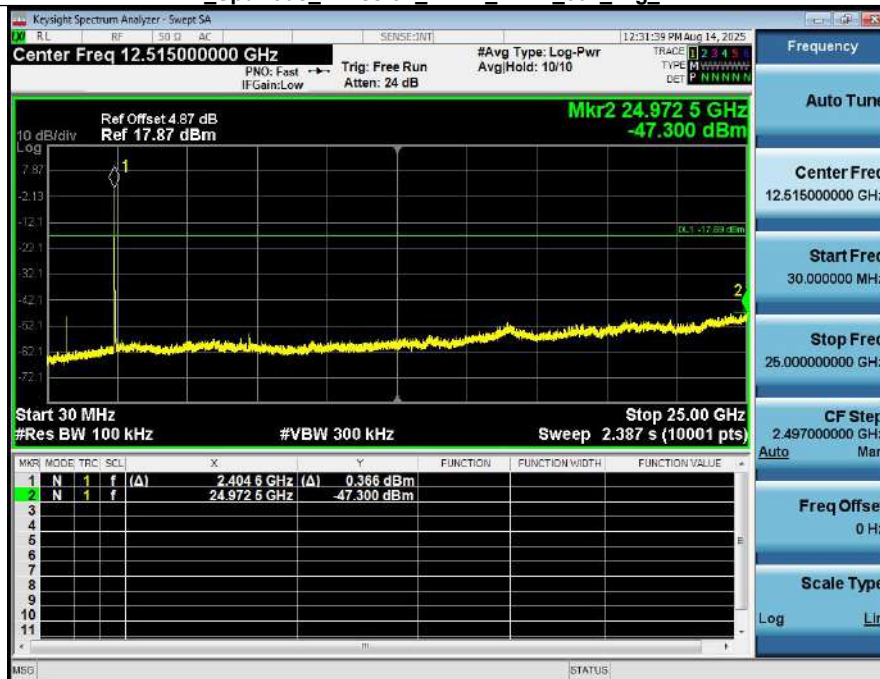
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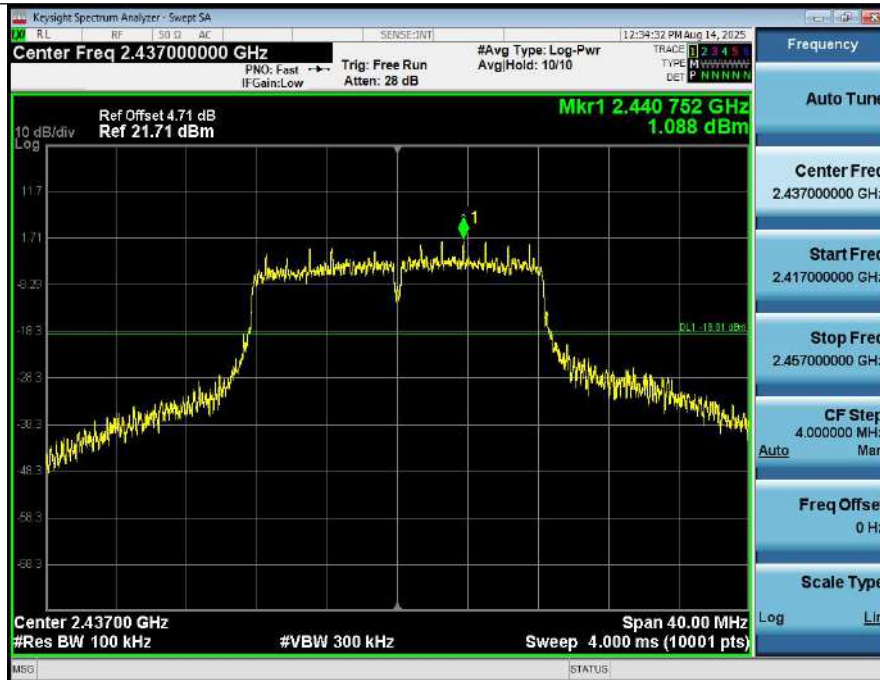
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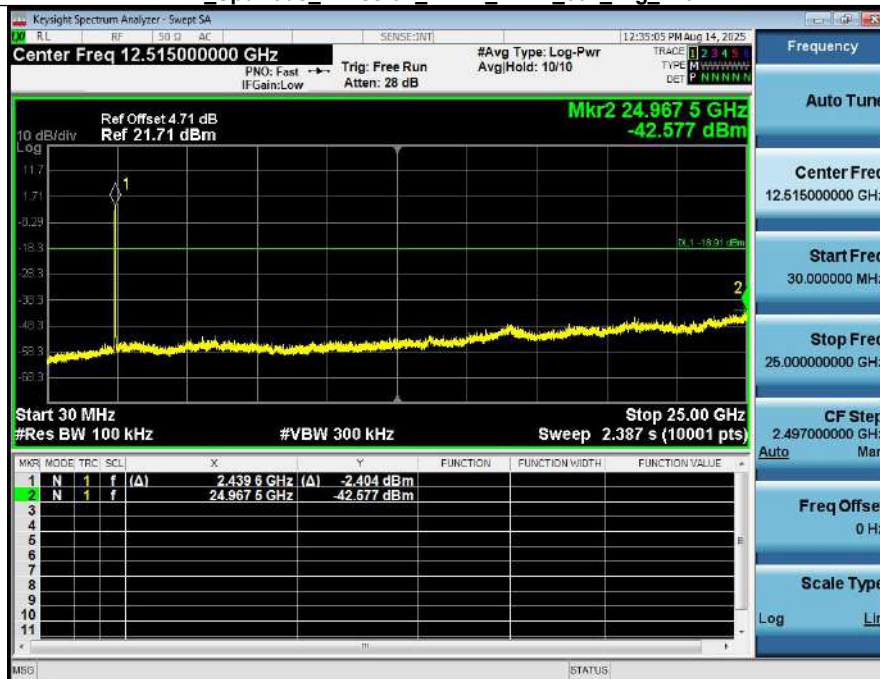
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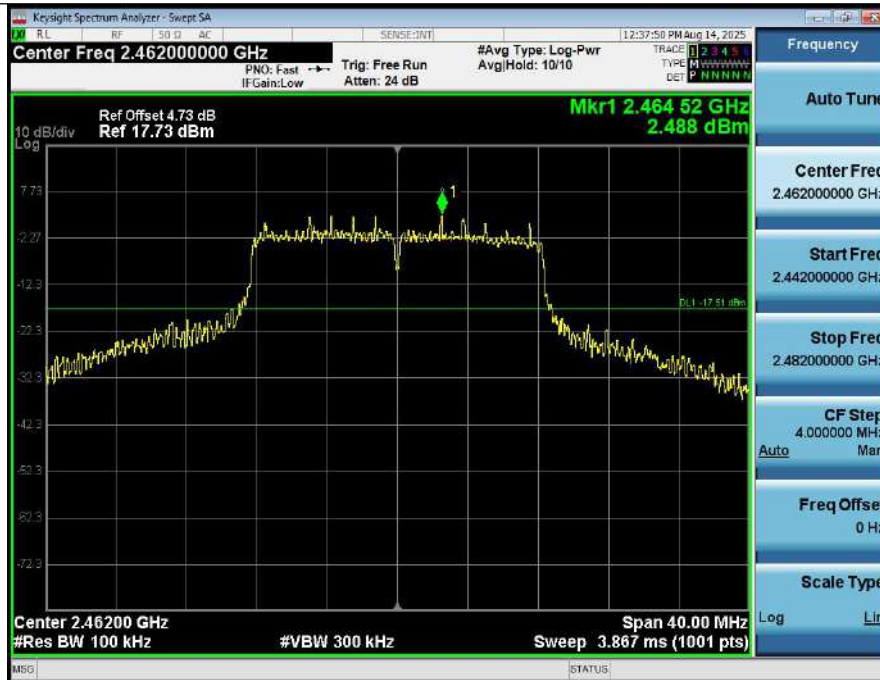
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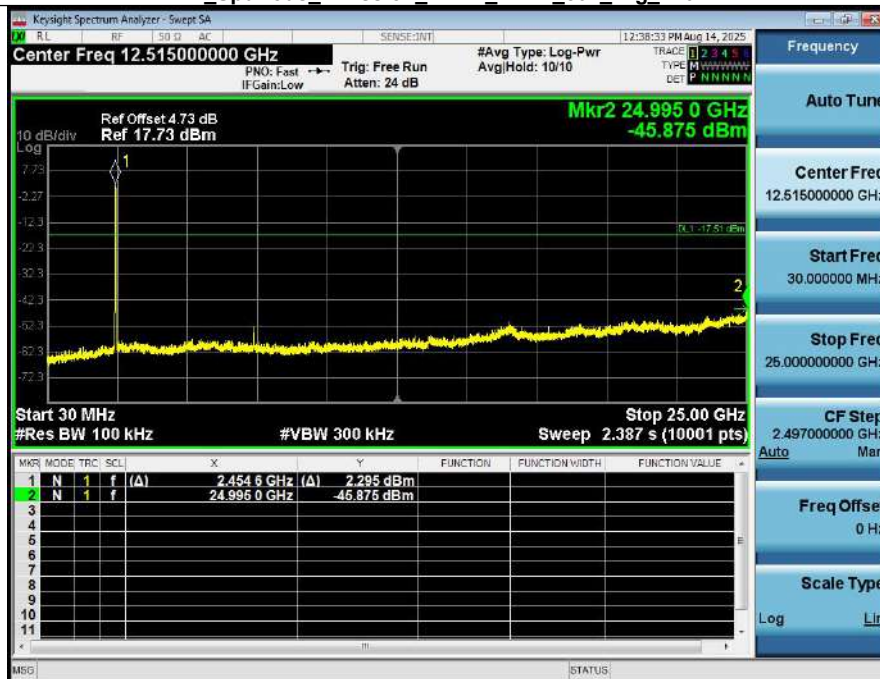
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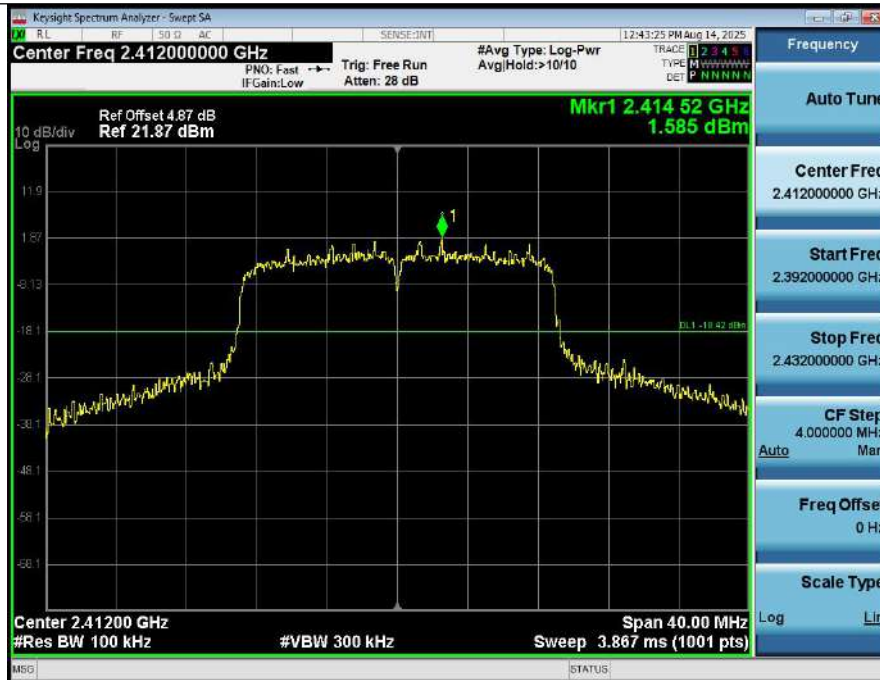
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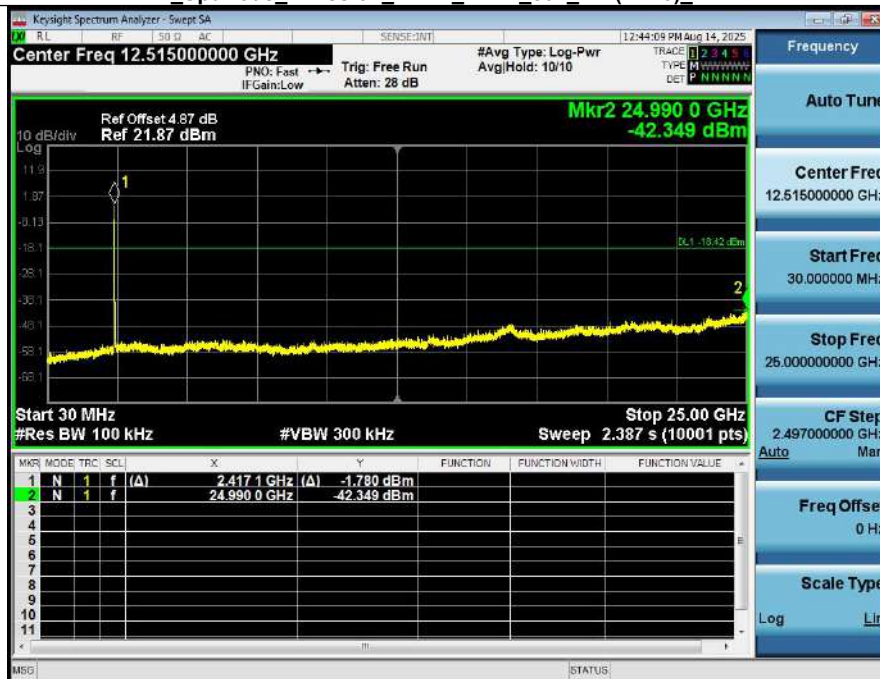
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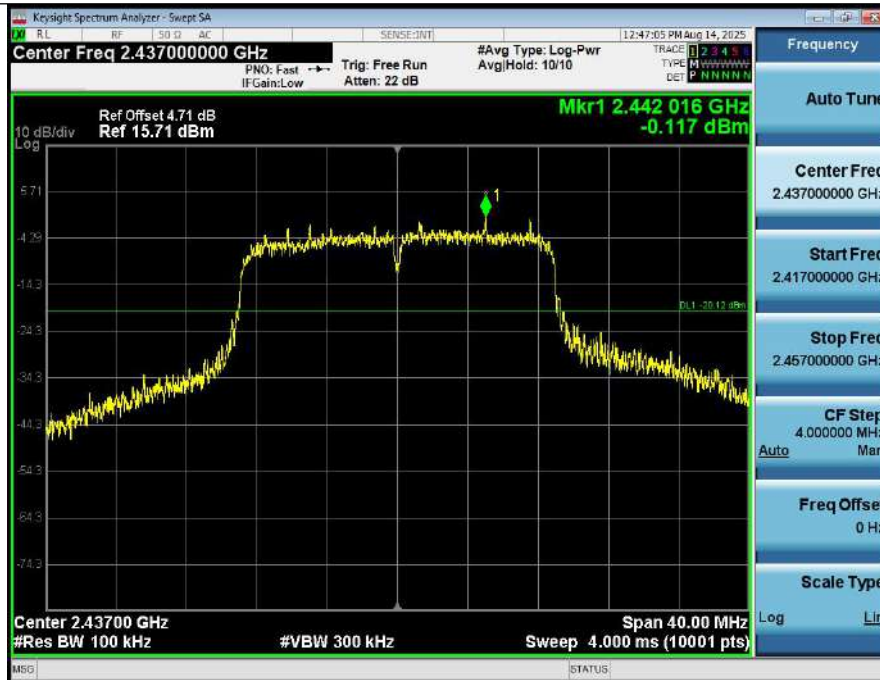
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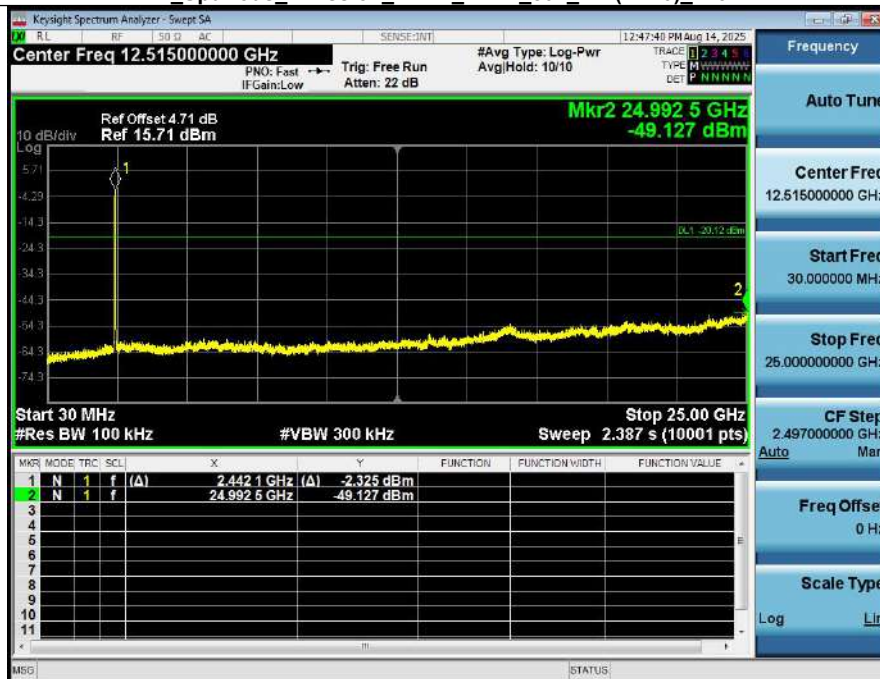
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462

