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FCC ID:2BC96NI-8331

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	9.19	500	Pass
NVNT	ANT1	802.11b	2437.00	9.19	500	Pass
NVNT	ANT1	802.11b	2462.00	9.26	500	Pass
NVNT	ANT1	802.11g	2412.00	16.50	500	Pass
NVNT	ANT1	802.11g	2437.00	16.53	500	Pass
NVNT	ANT1	802.11g	2462.00	16.23	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.46	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.49	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.33	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



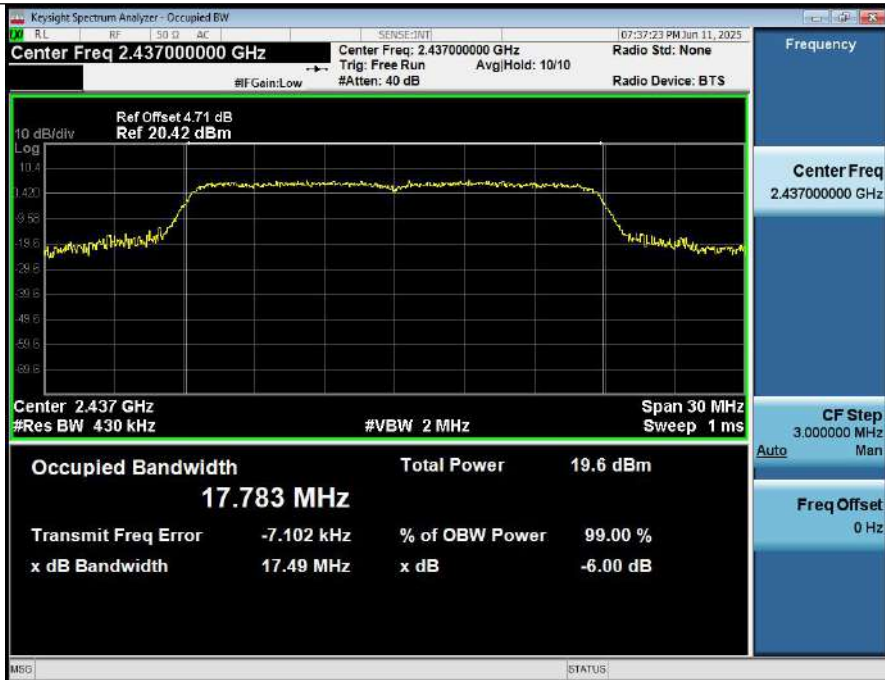
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

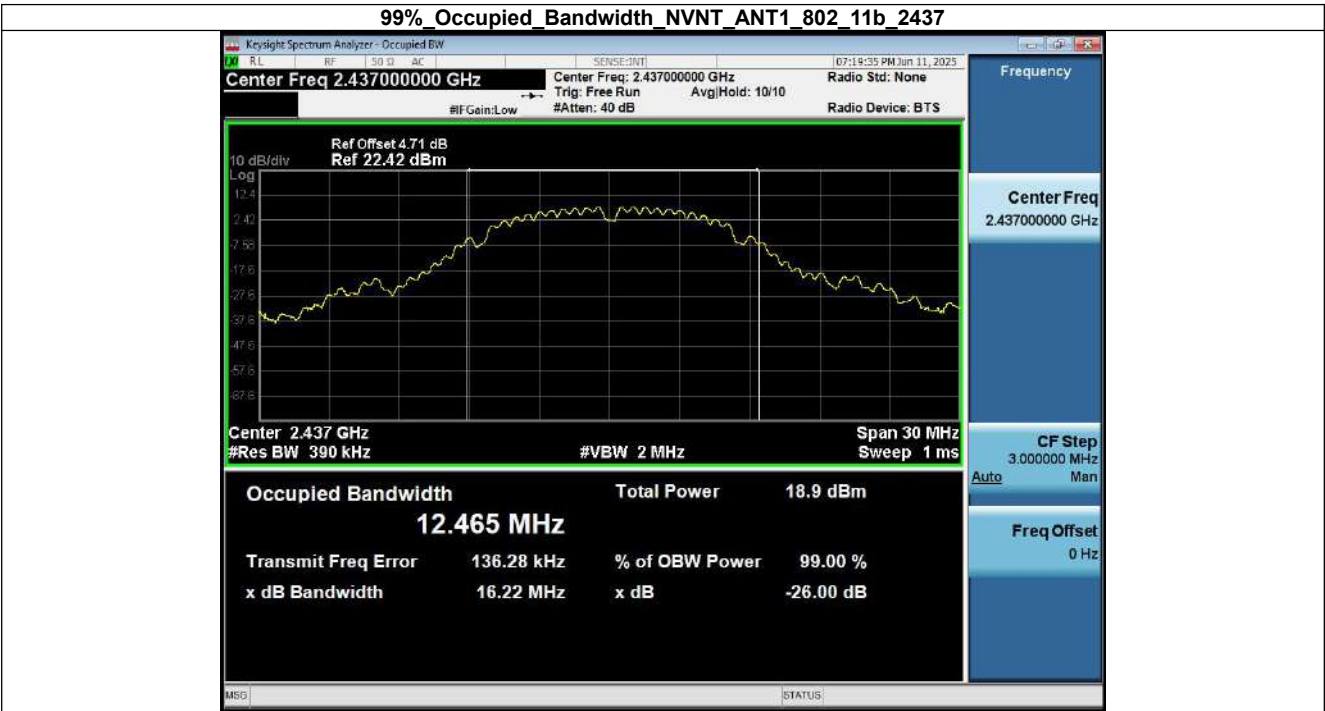


-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.834
NVNT	ANT1	802.11b	2437.00	12.465
NVNT	ANT1	802.11b	2462.00	12.728
NVNT	ANT1	802.11g	2412.00	17.309
NVNT	ANT1	802.11g	2437.00	17.160
NVNT	ANT1	802.11g	2462.00	17.365
NVNT	ANT1	802.11n(HT20)	2412.00	17.960
NVNT	ANT1	802.11n(HT20)	2437.00	17.935
NVNT	ANT1	802.11n(HT20)	2462.00	17.983



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

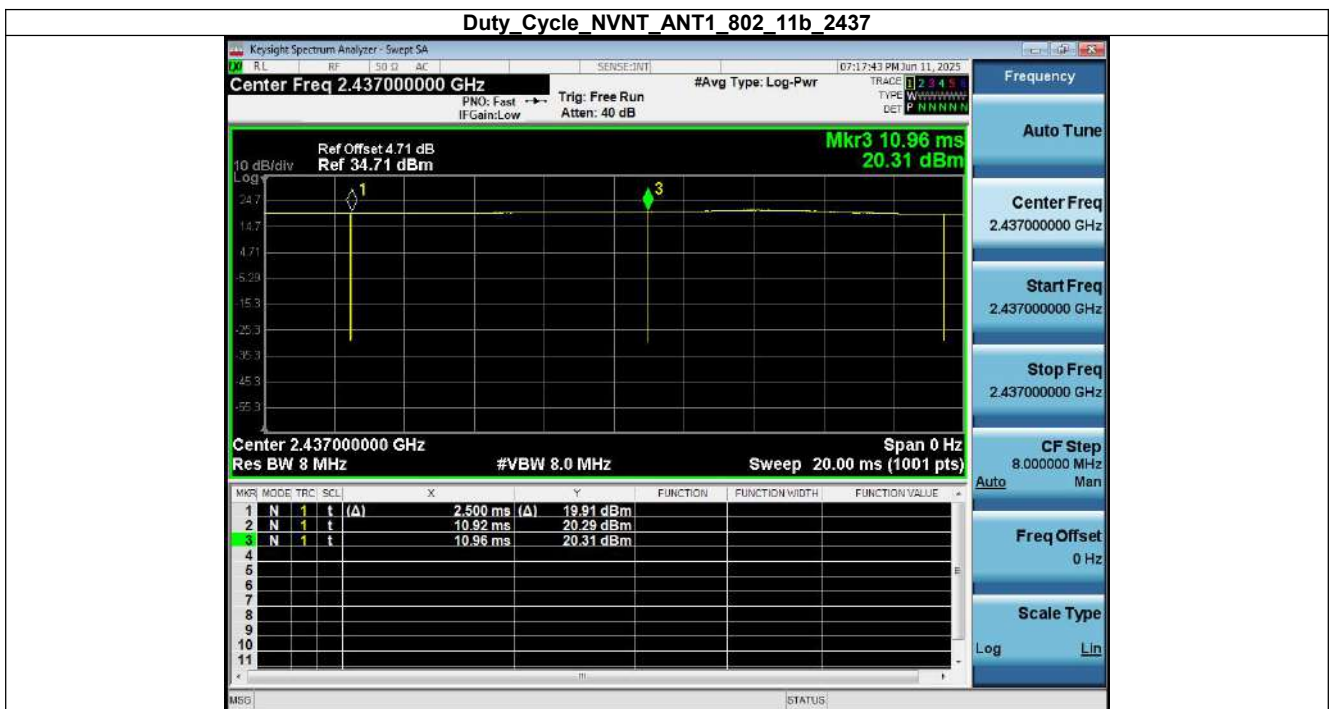
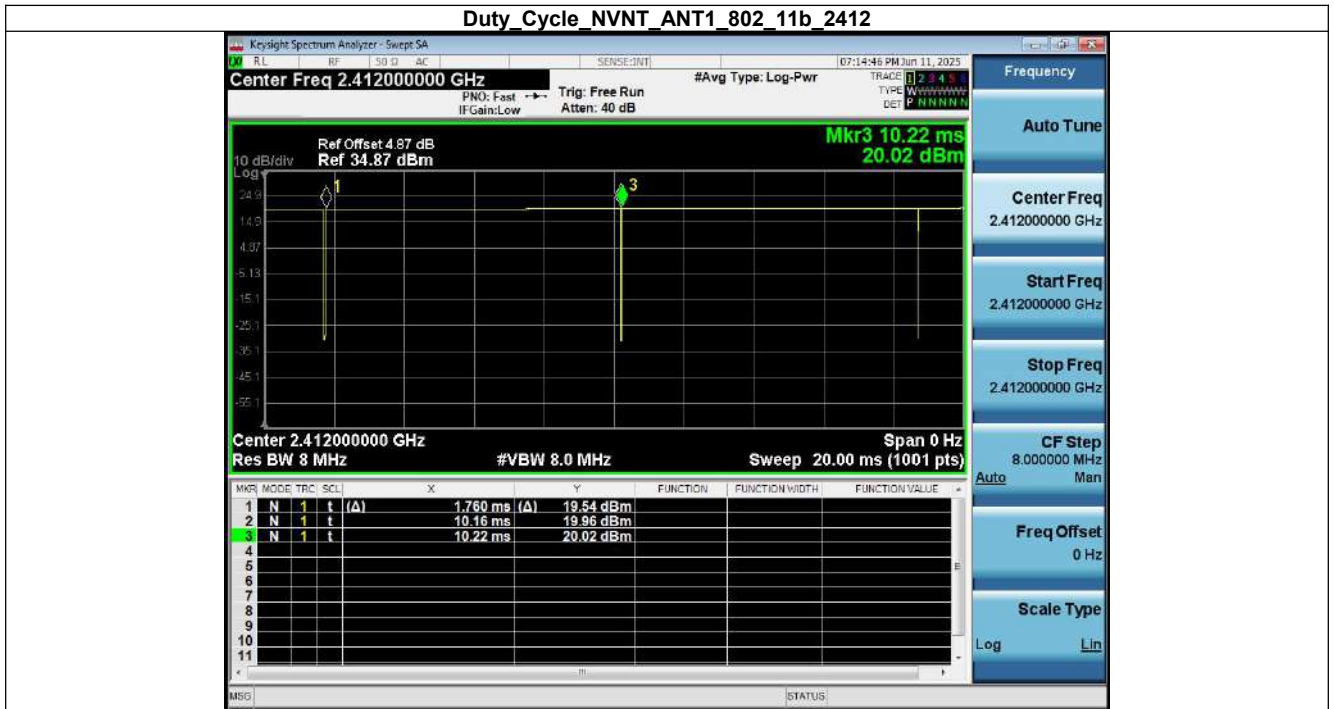


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



3. Duty Cycle

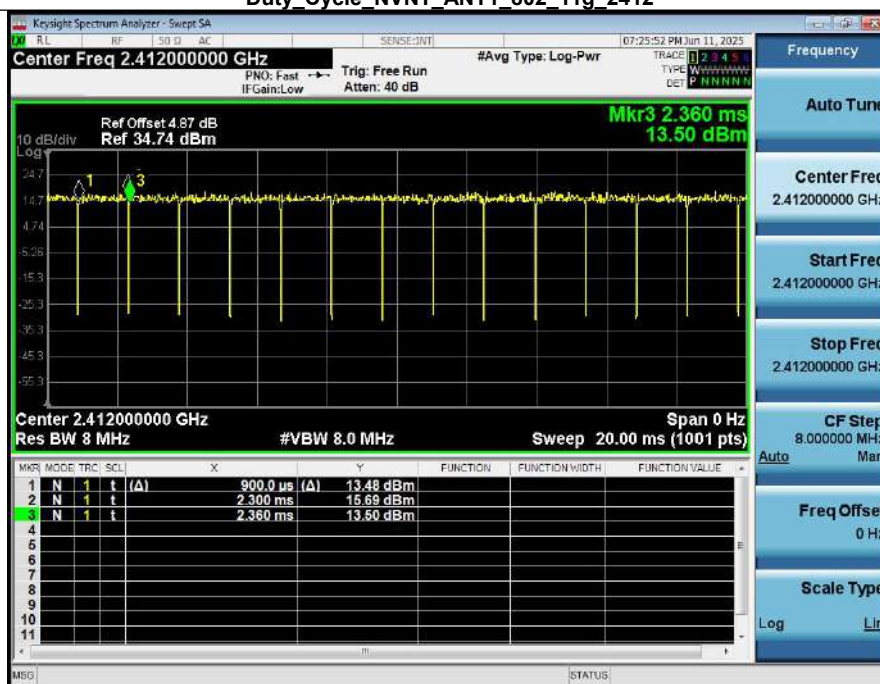
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	98.61	0.00
NVNT	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	98.36	0.00



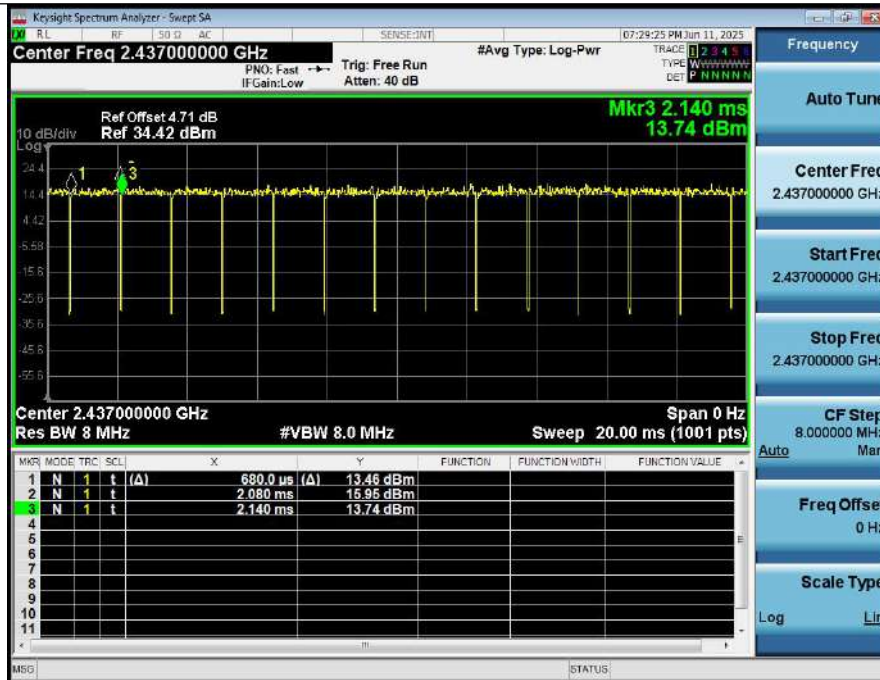
Duty Cycle NVNT_ANT1_802_11b_2462



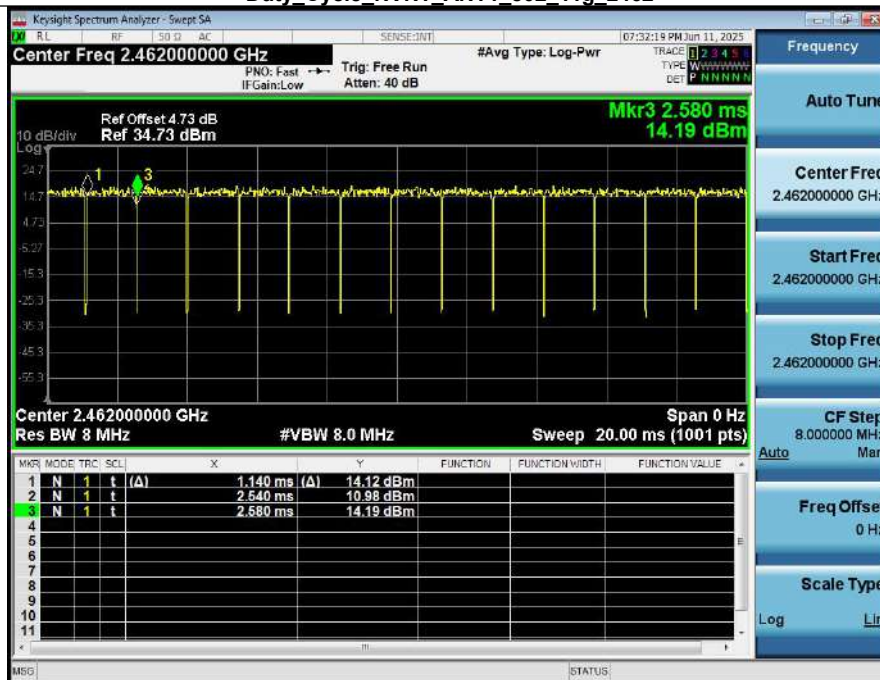
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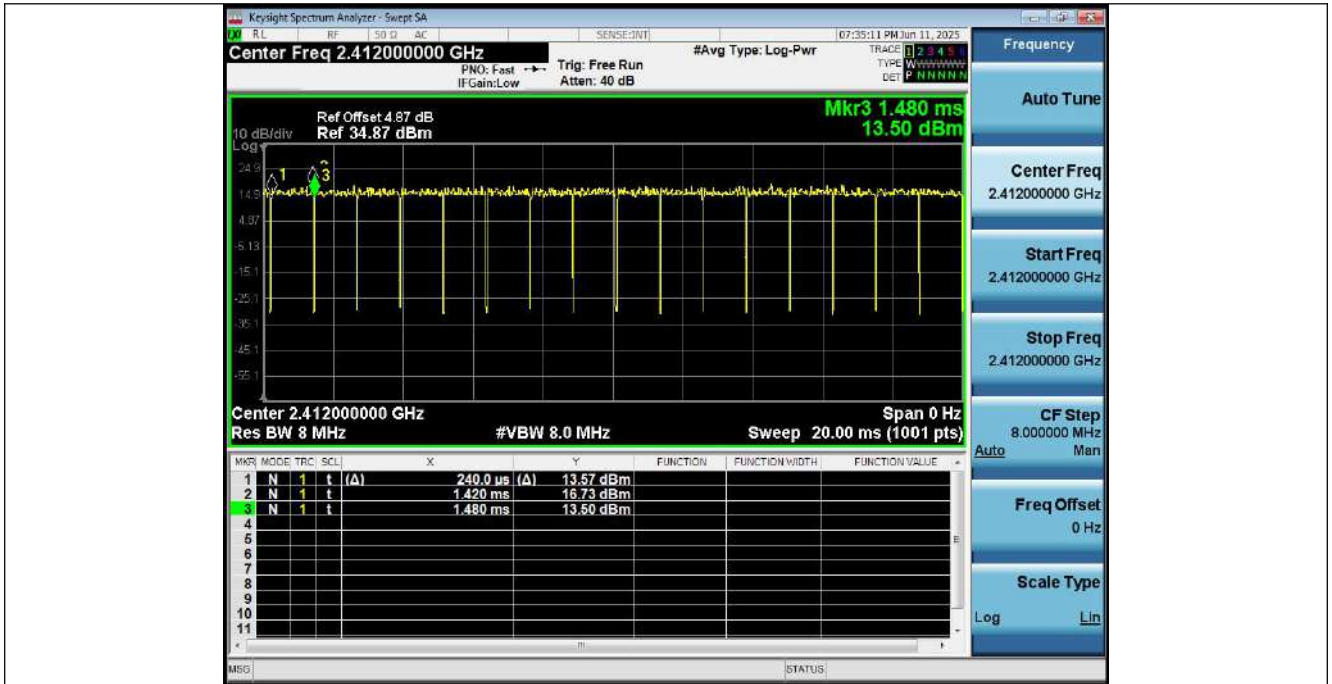
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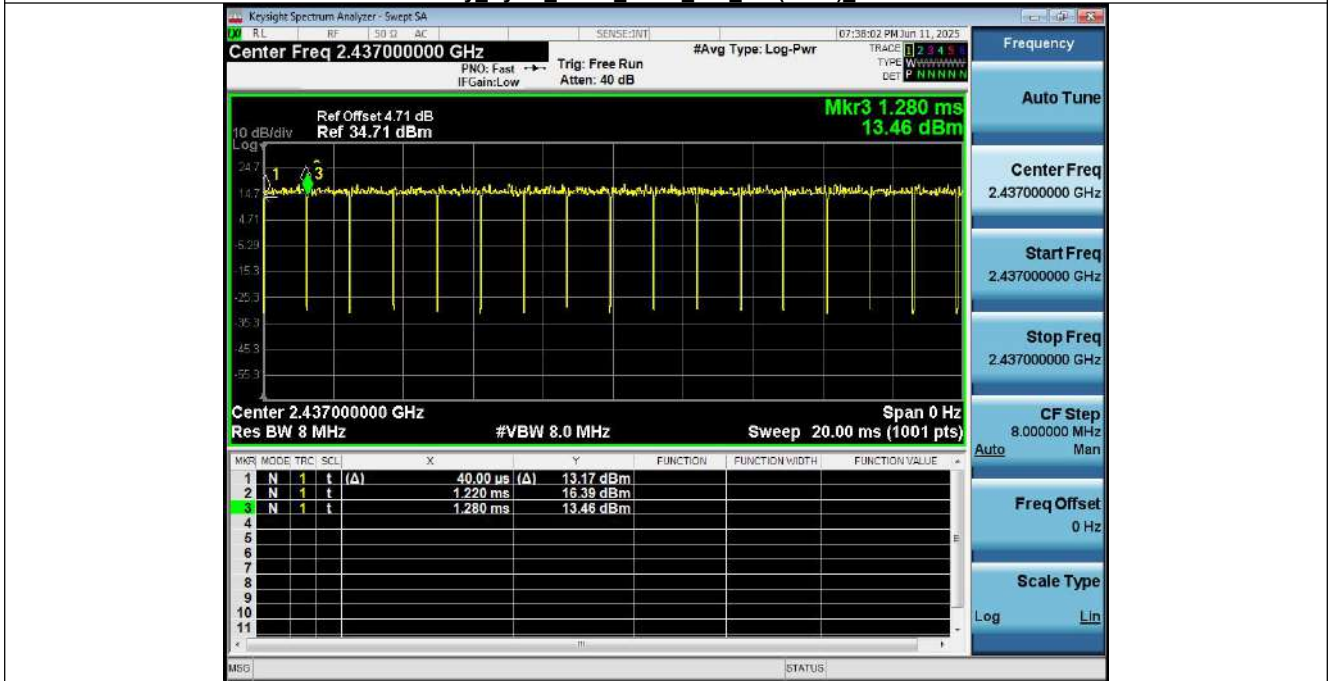
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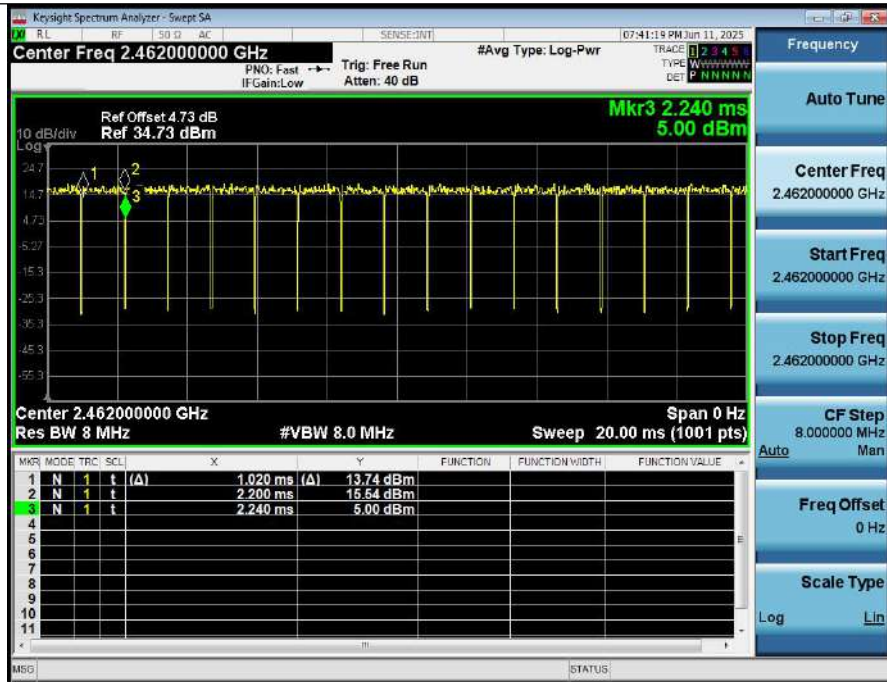
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



4. MAX. Output Power

Condition	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Conducted limit(dBm)	Antenna Gain (dBi)	EIRP(dBm)	EIRP Limit (dBm)	Result
NVNT	802.11b	2412.00	Peak	18.45	30	5.17	23.62	36	Pass
NVNT	802.11b	2437.00	Peak	18.33	30	5.17	23.50	36	Pass
NVNT	802.11b	2462.00	Peak	18.77	30	5.17	23.94	36	Pass
NVNT	802.11g	2412.00	Peak	18.20	30	5.17	23.37	36	Pass
NVNT	802.11g	2437.00	Peak	18.12	30	5.17	23.29	36	Pass
NVNT	802.11g	2462.00	Peak	19.17	30	5.17	24.34	36	Pass
NVNT	802.11n(HT20)	2412.00	Peak	19.32	30	5.17	24.49	36	Pass
NVNT	802.11n(HT20)	2437.00	Peak	19.27	30	5.17	24.44	36	Pass
NVNT	802.11n(HT20)	2462.00	Peak	19.25	30	5.17	24.42	36	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	4.63	-10.00	-5.37	8	Pass
NVNT	ANT1	802.11b	2437.00	5.10	-10.00	-4.90	8	Pass
NVNT	ANT1	802.11b	2462.00	3.90	-10.00	-6.10	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.17	-10.00	-14.17	8	Pass
NVNT	ANT1	802.11g	2437.00	-3.47	-10.00	-13.47	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.04	-10.00	-13.04	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.22	-10.00	-14.22	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-4.01	-10.00	-14.01	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.82	-10.00	-12.82	8	Pass



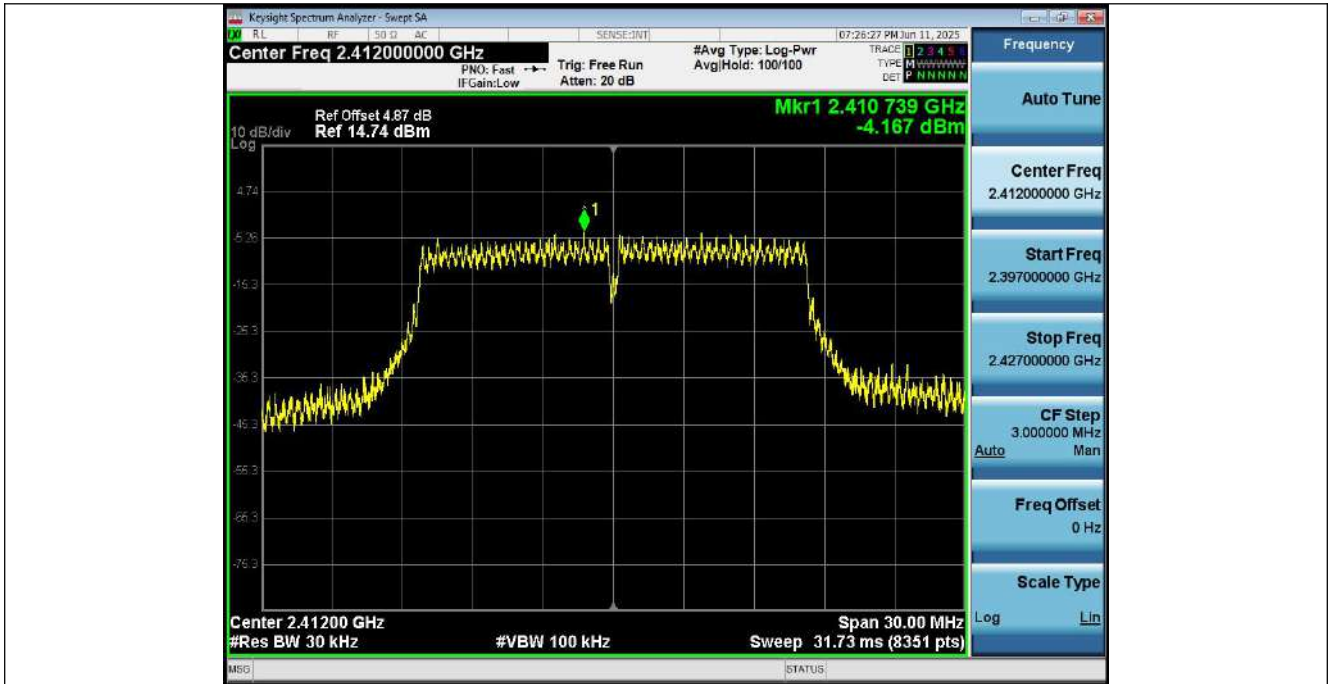
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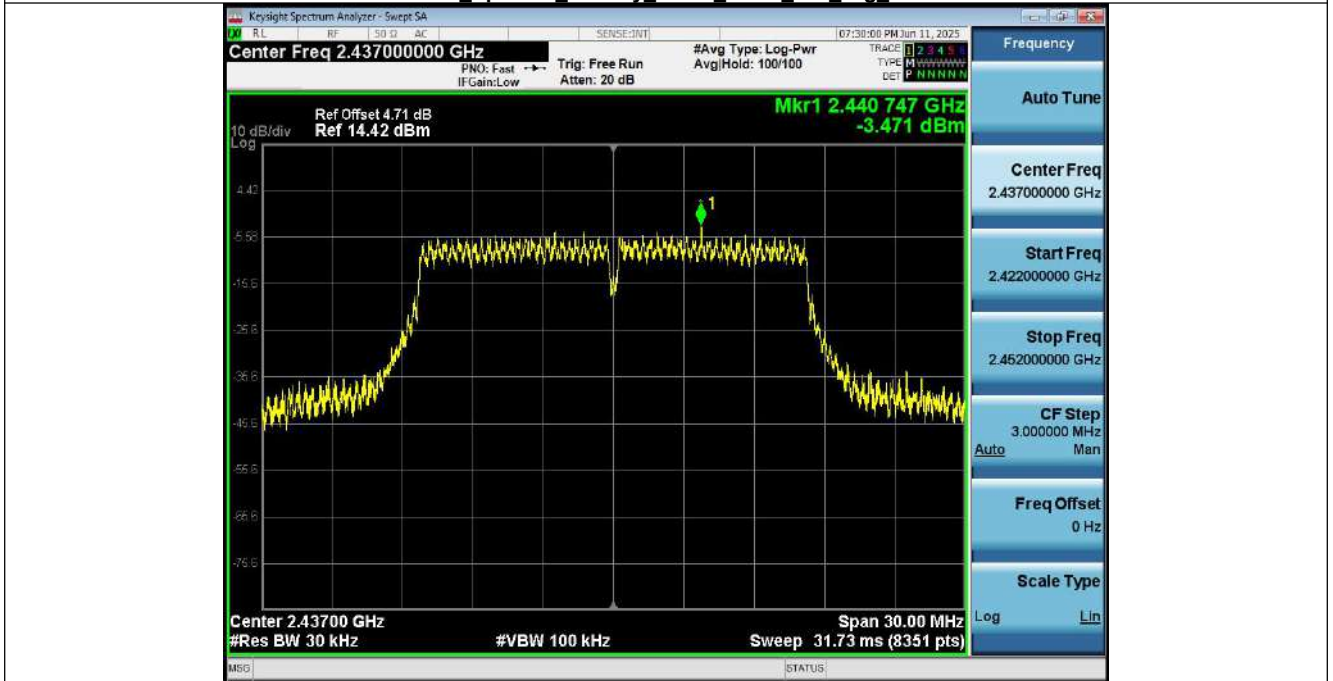
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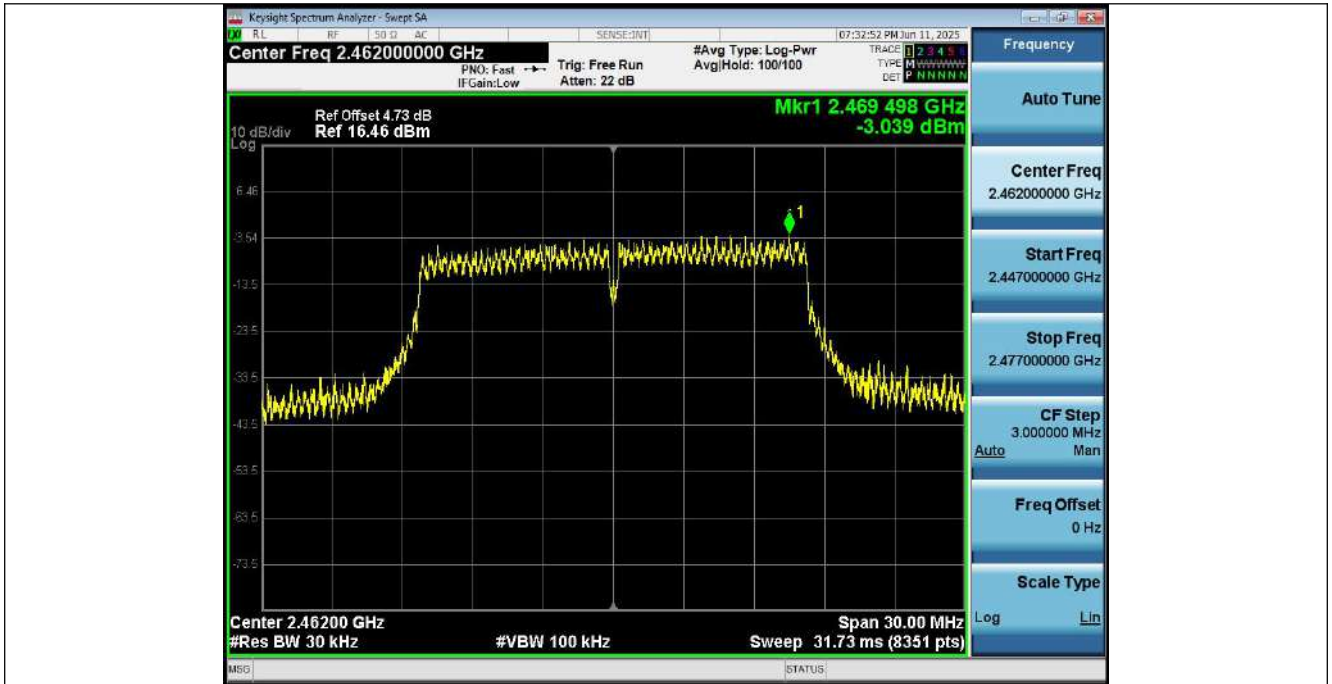
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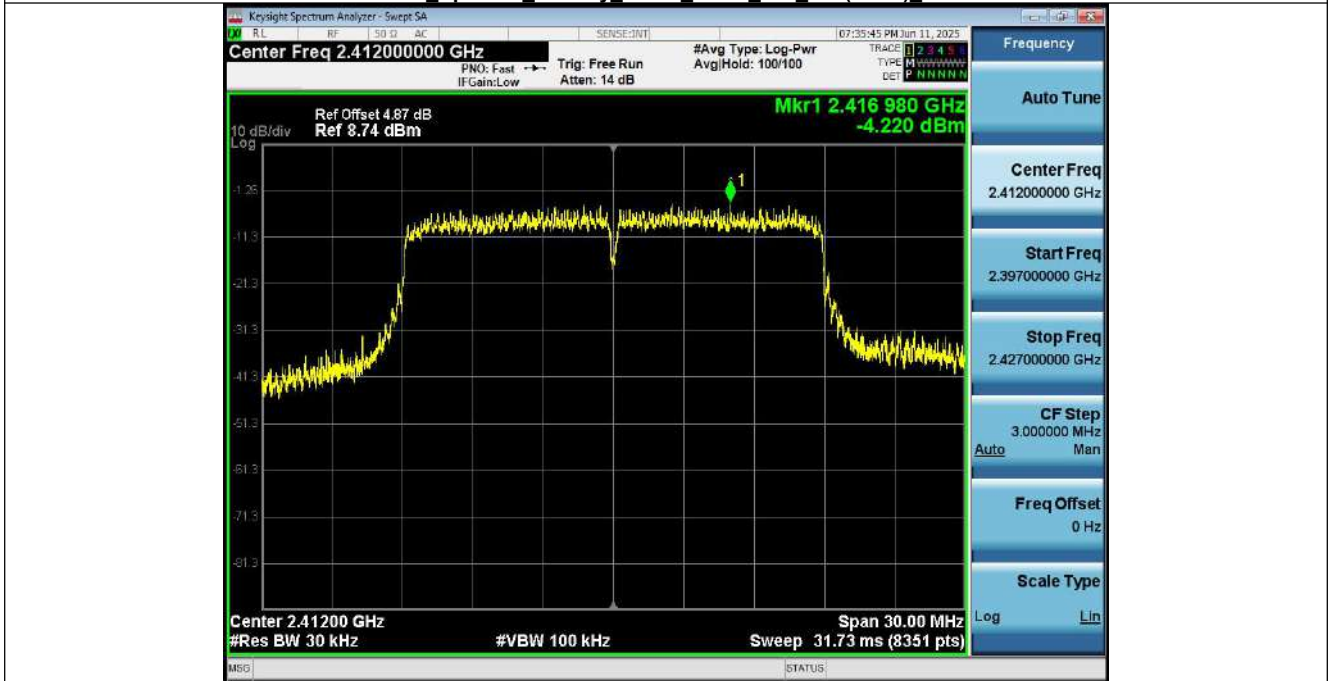
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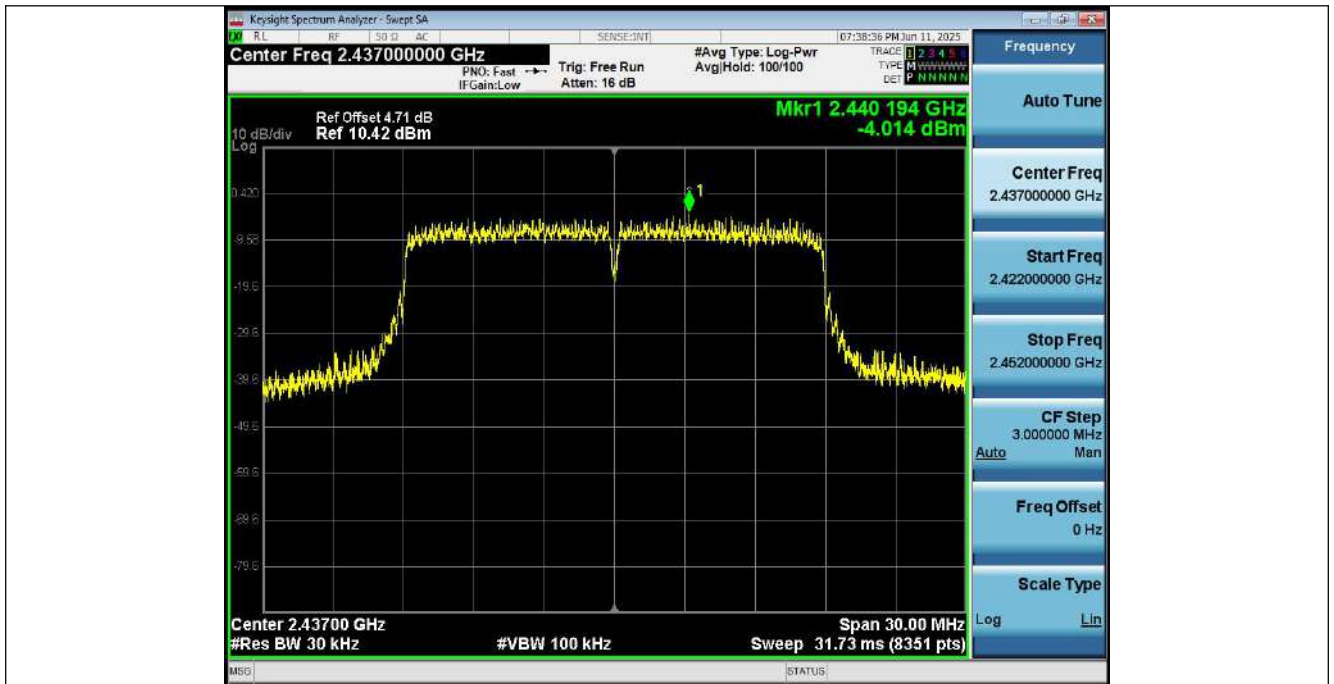
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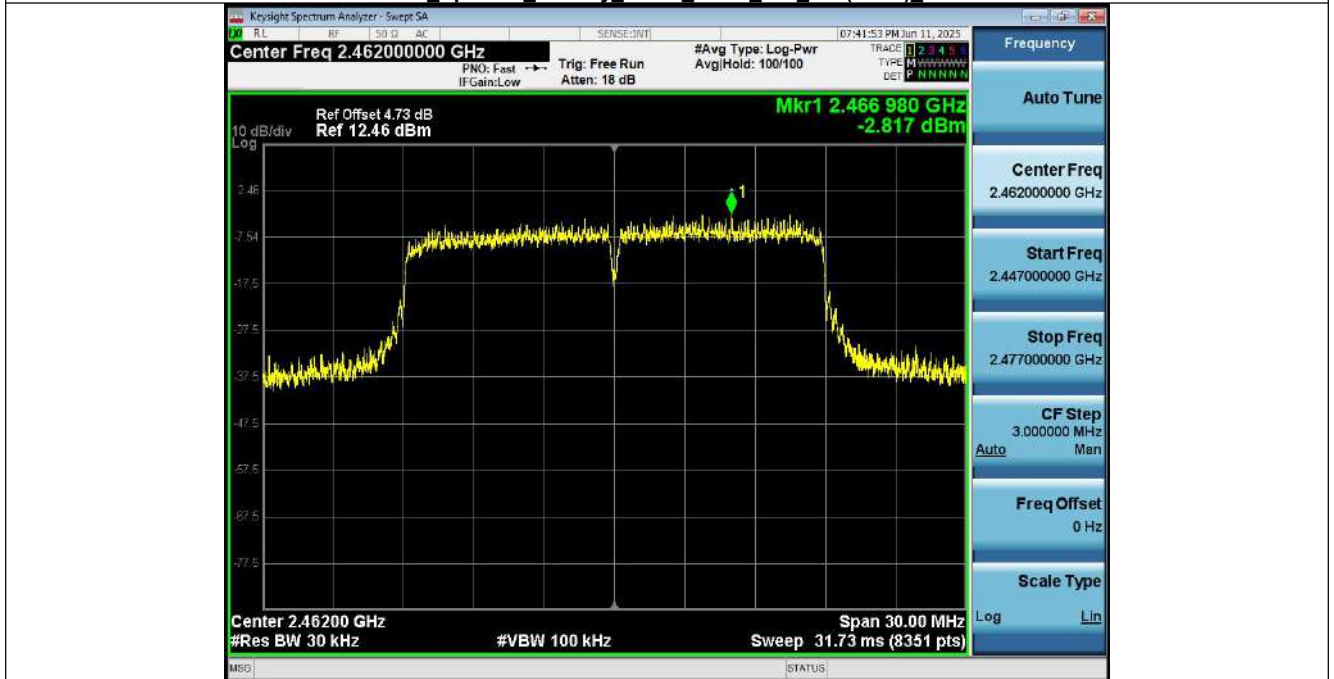
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



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	7.275	-28.552	-12.725	Pass
NVNT	ANT1	802.11b	2462.00	2483.536	7.119	-43.423	-12.881	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	0.576	-30.361	-19.424	Pass
NVNT	ANT1	802.11g	2462.00	2483.872	1.778	-35.700	-18.222	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.152	0.130	-29.881	-19.870	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.680	1.593	-35.498	-18.407	Pass



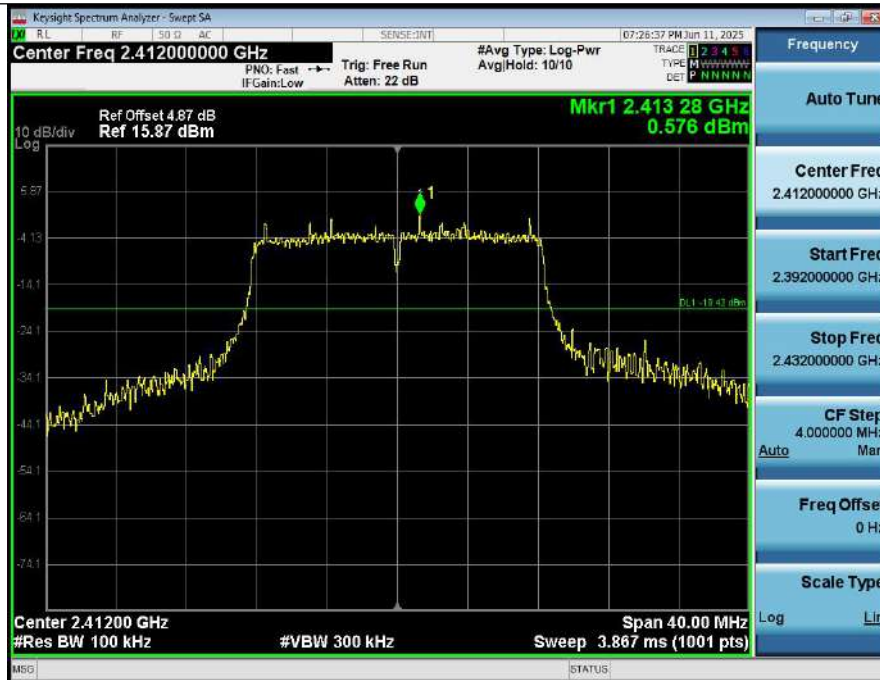
1 Reference Level NVNT ANT1 802 11b 2462



2_Bandedge_NVNT_ANT1_802_11b_2462



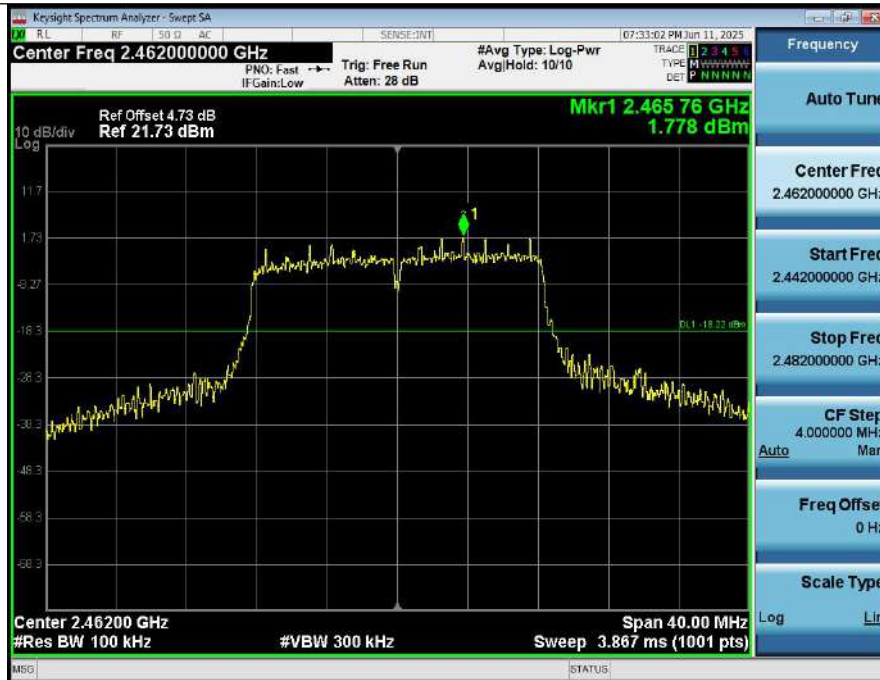
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2_Bandedge_NVNT_ANT1_802_11g_2412



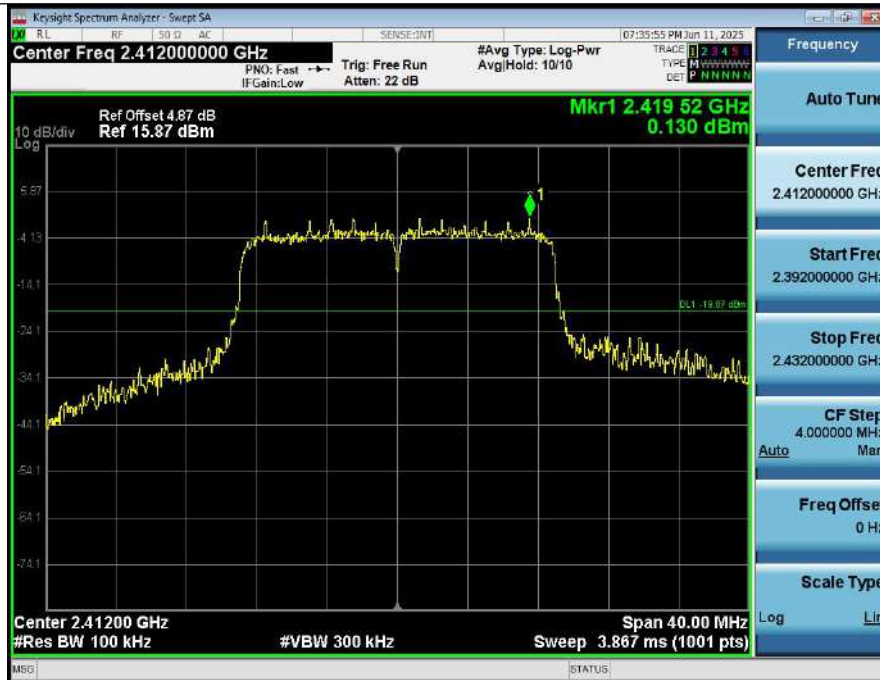
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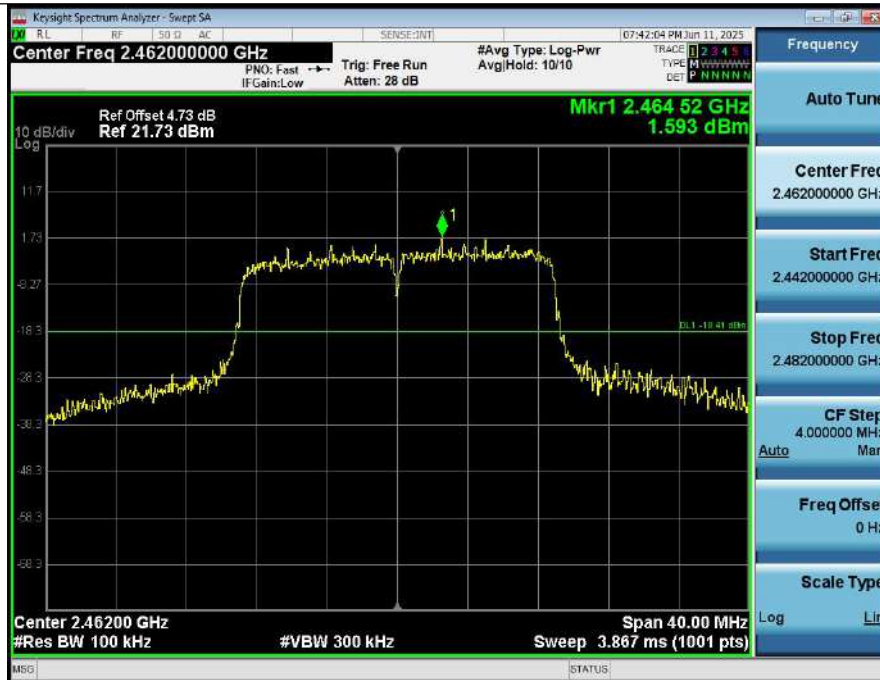
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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

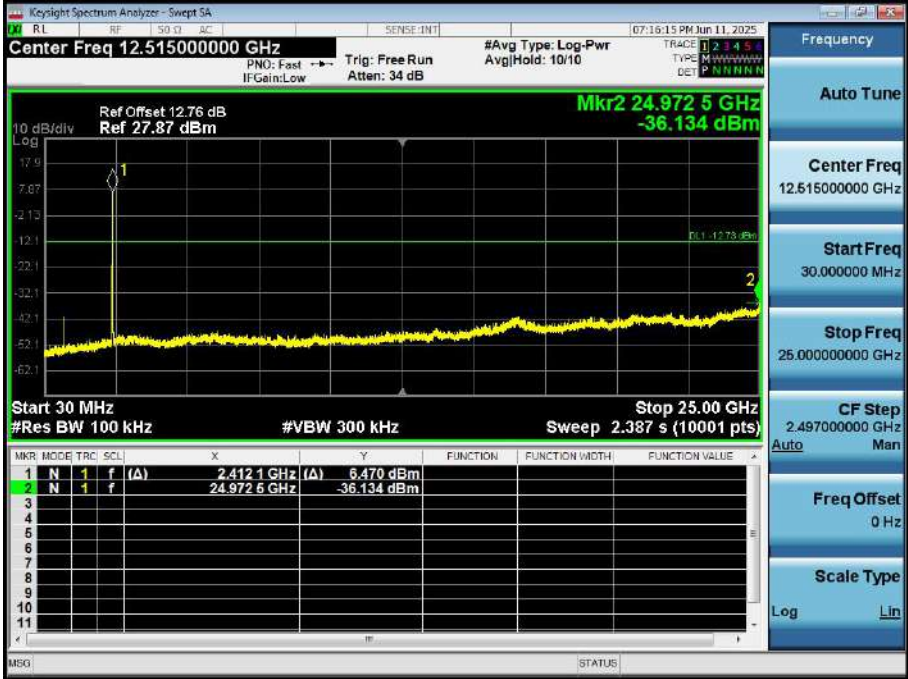
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24972.533	7.275	-36.134	-12.725	Pass
NVNT	ANT1	802.11b	2437.00	24965.042	7.091	-41.934	-12.909	Pass
NVNT	ANT1	802.11b	2462.00	24995.006	7.119	-35.366	-12.881	Pass
NVNT	ANT1	802.11g	2412.00	24910.108	0.576	-49.361	-19.424	Pass
NVNT	ANT1	802.11g	2437.00	24997.503	0.339	-43.854	-19.661	Pass
NVNT	ANT1	802.11g	2462.00	24997.503	1.778	-42.593	-18.222	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	721.669	0.130	-37.337	-19.870	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24682.881	0.083	-45.468	-19.917	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24802.737	1.593	-43.235	-18.407	Pass

Ref Offest = Cable Loss

1 Reference_Level_NVNT_ANT1_802_11b_2412



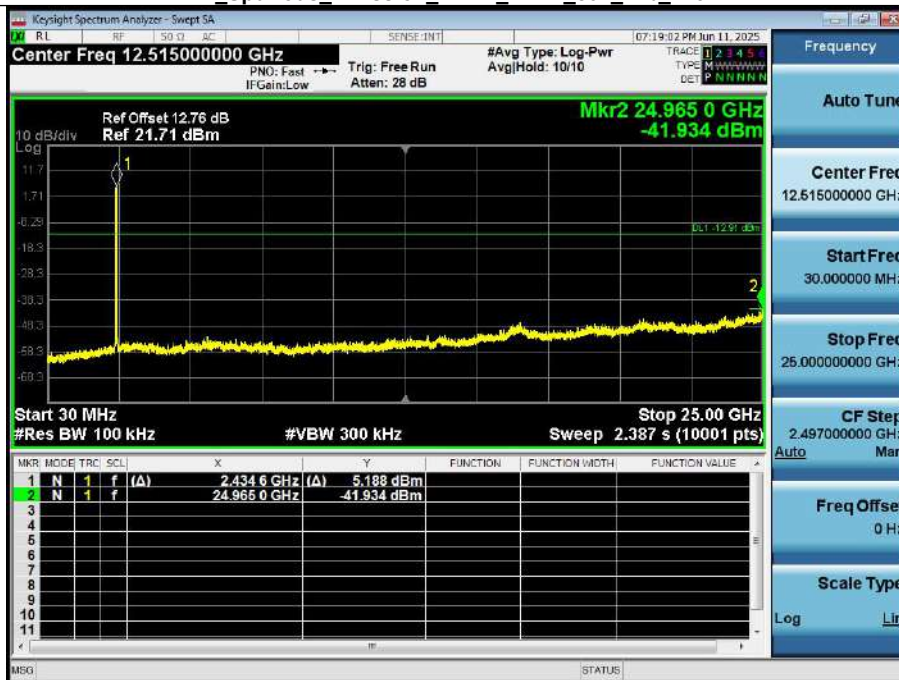
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1 Reference Level NVNT_ANT1_802_11b_2437



2 Spurious Emission NVNT_ANT1_802_11b_2437



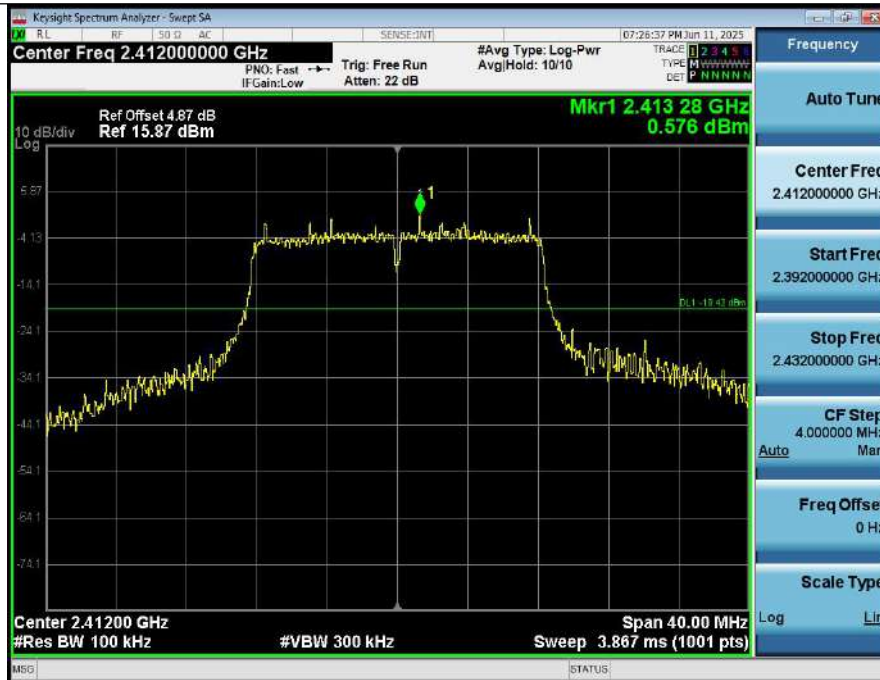
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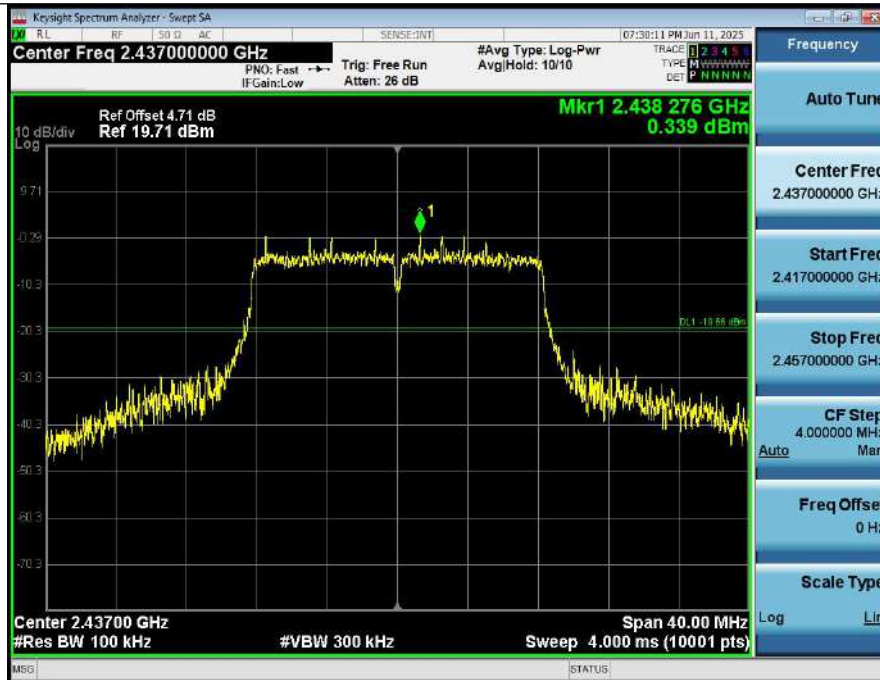
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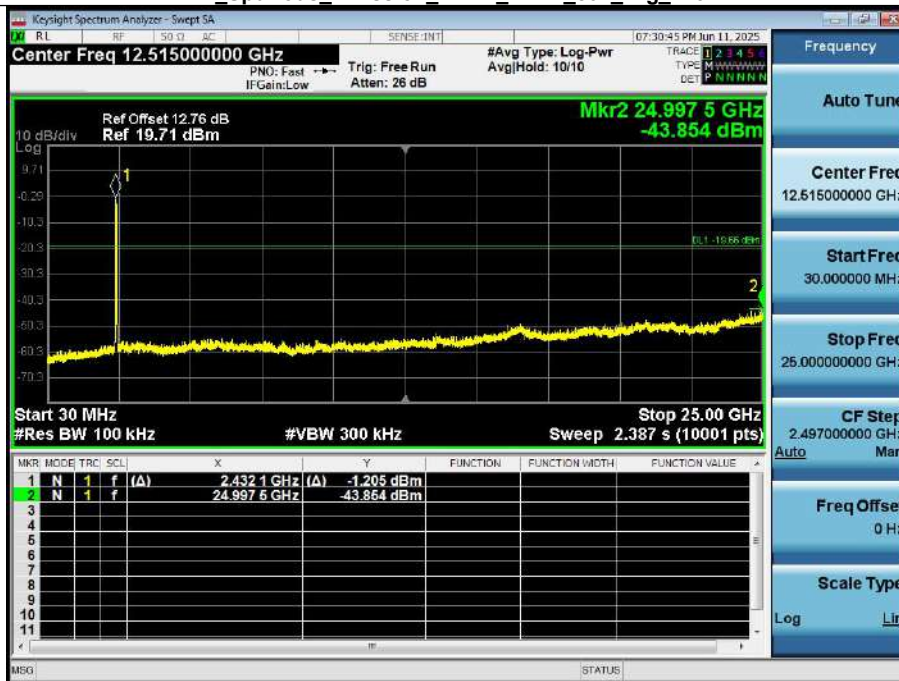
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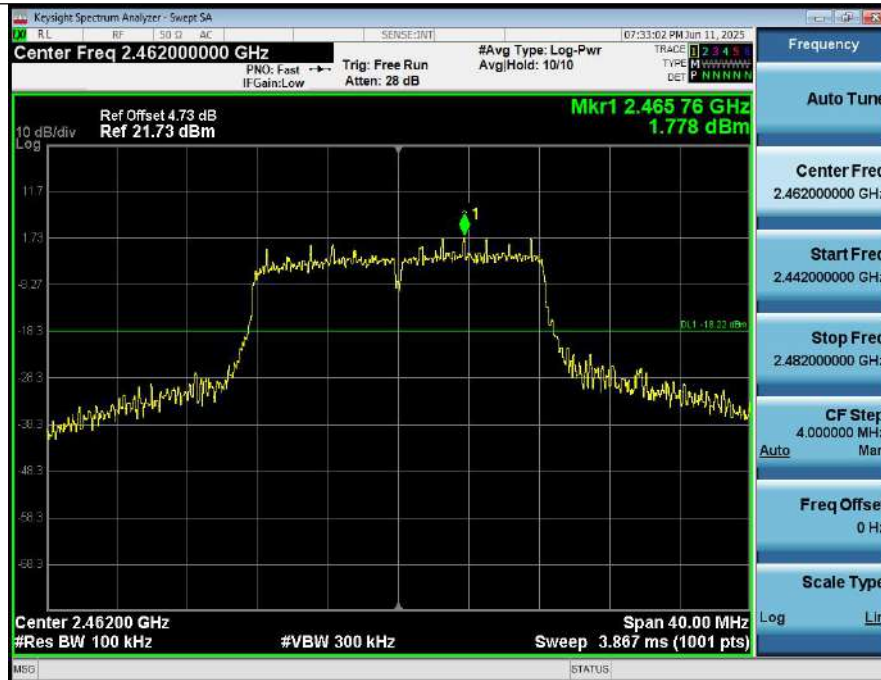
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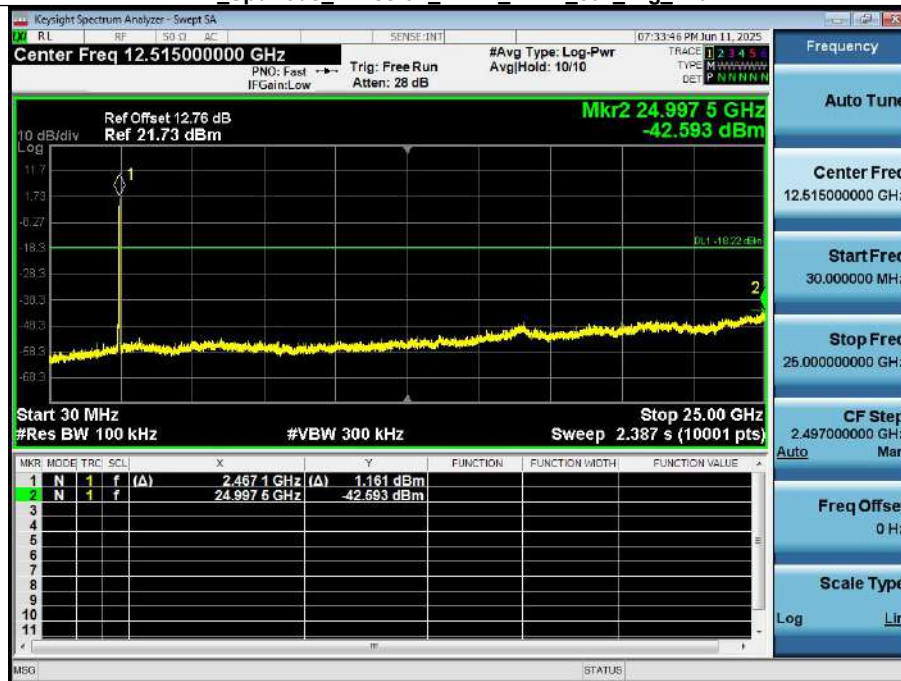
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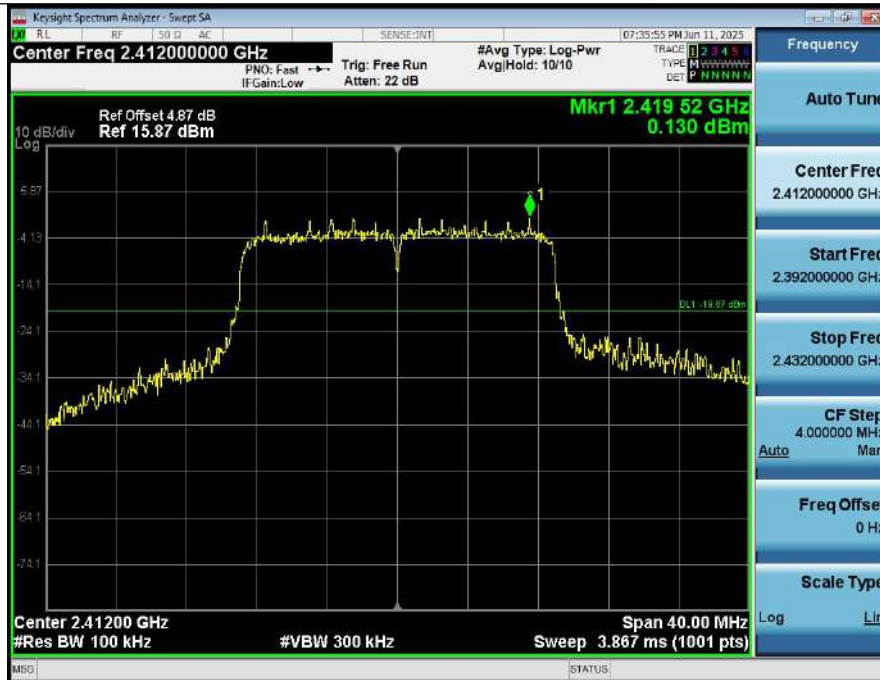
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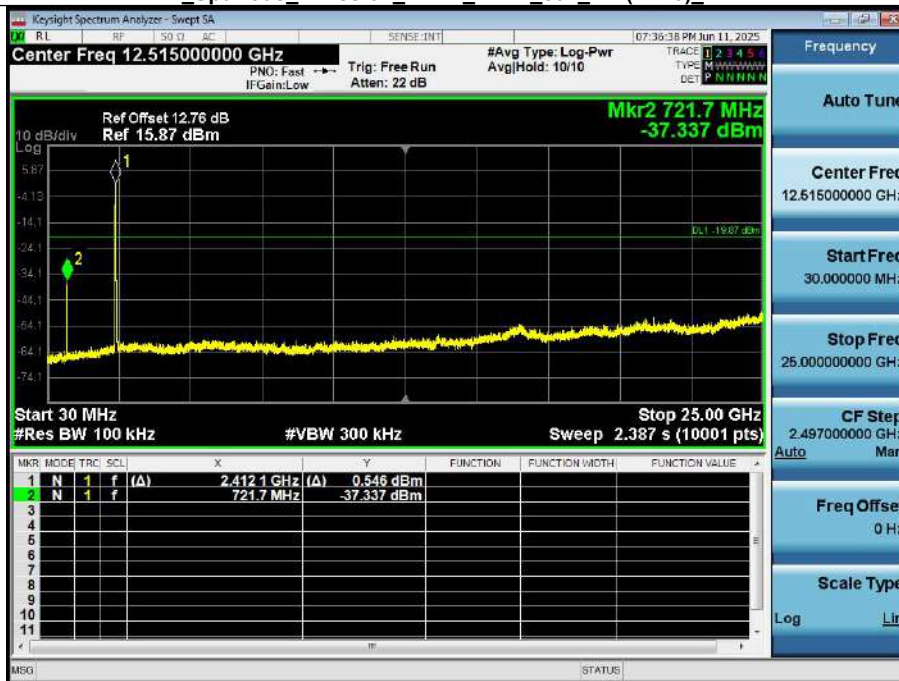
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2412



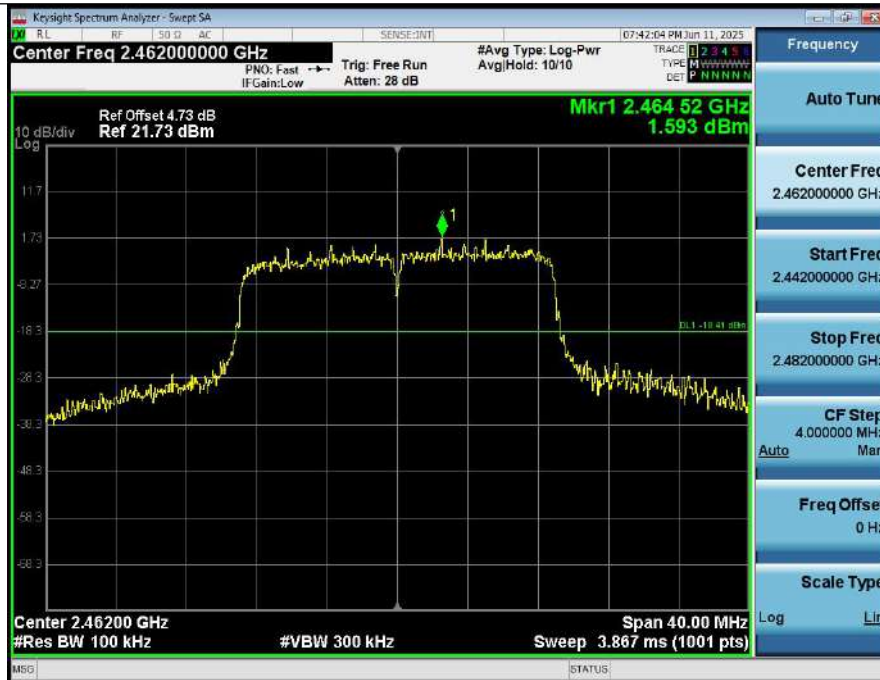
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

