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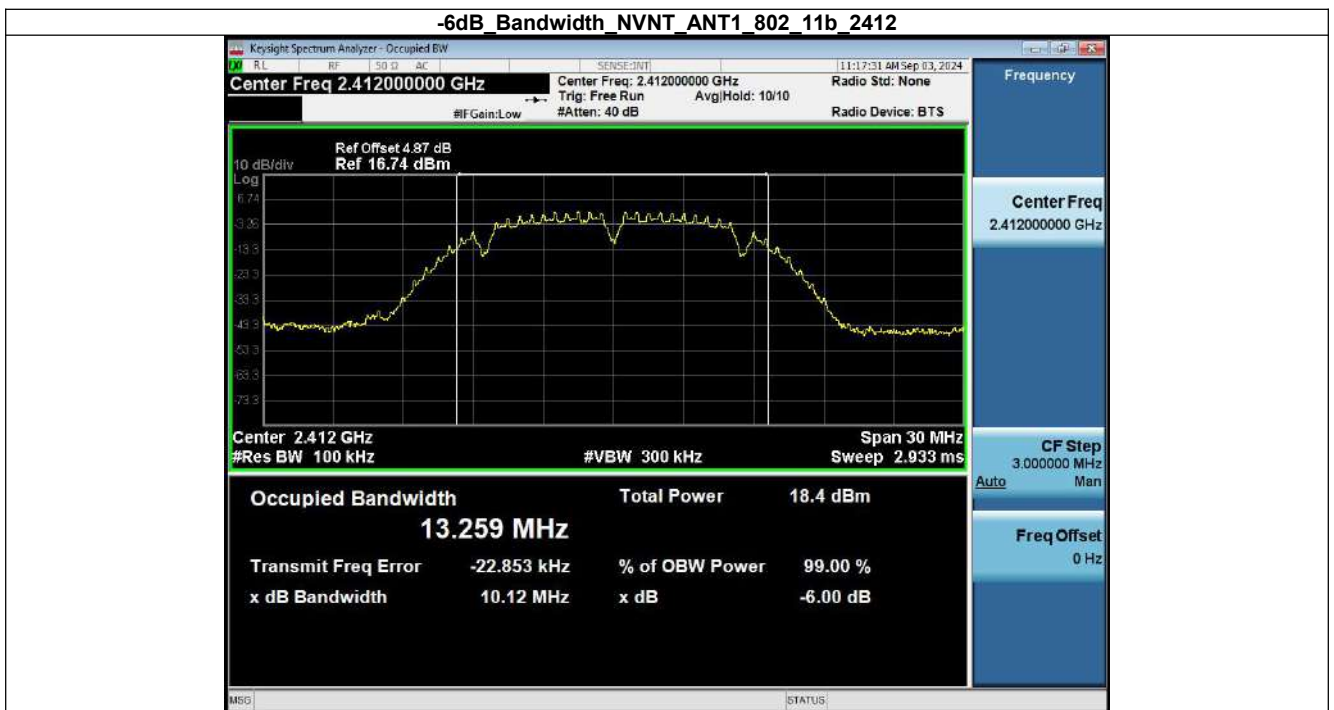
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FCC ID:2AO8RNI-8141

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	10.12	500	Pass
NVNT	ANT1	802.11b	2437.00	10.13	500	Pass
NVNT	ANT1	802.11b	2462.00	10.10	500	Pass
NVNT	ANT1	802.11g	2412.00	16.43	500	Pass
NVNT	ANT1	802.11g	2437.00	16.41	500	Pass
NVNT	ANT1	802.11g	2462.00	16.40	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.64	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.65	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.62	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

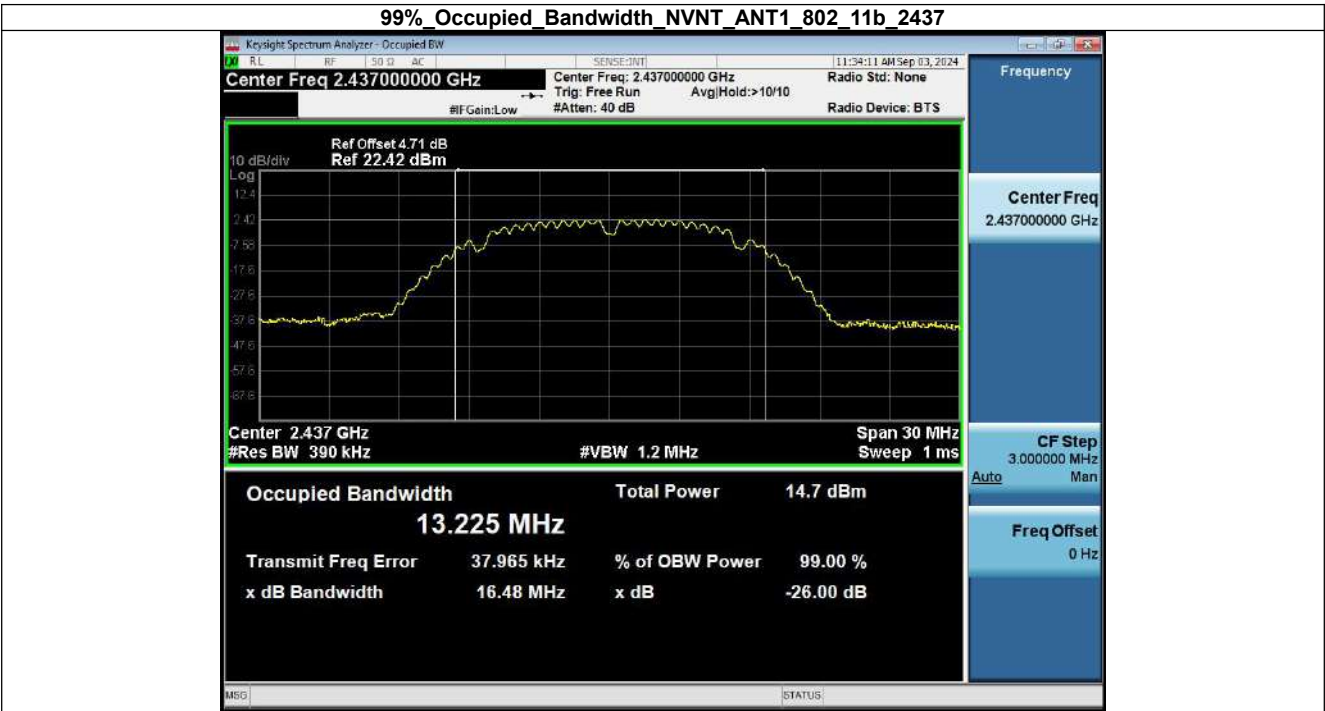
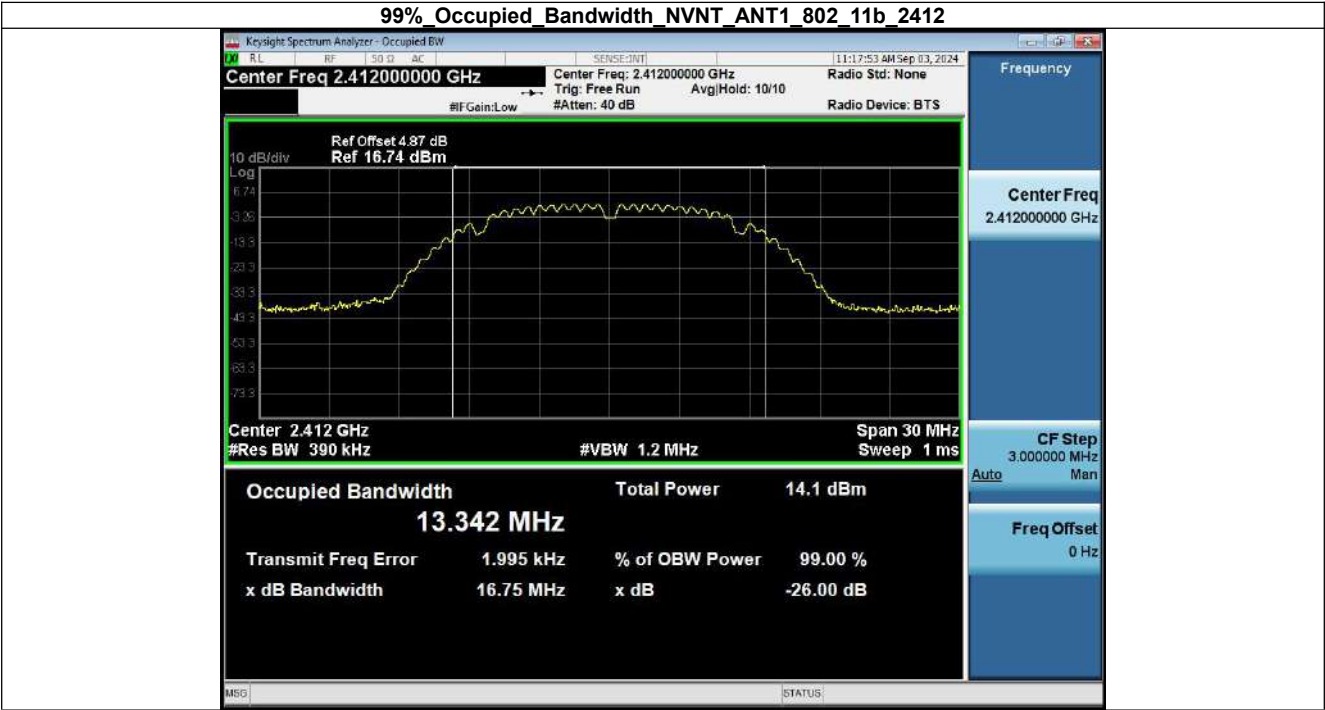


-6dB Bandwidth NVNT_ANT1 802_11n(HT20) 2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.342
NVNT	ANT1	802.11b	2437.00	13.225
NVNT	ANT1	802.11b	2462.00	13.072
NVNT	ANT1	802.11g	2412.00	17.005
NVNT	ANT1	802.11g	2437.00	17.029
NVNT	ANT1	802.11g	2462.00	16.945
NVNT	ANT1	802.11n(HT20)	2412.00	17.908
NVNT	ANT1	802.11n(HT20)	2437.00	17.909
NVNT	ANT1	802.11n(HT20)	2462.00	17.876



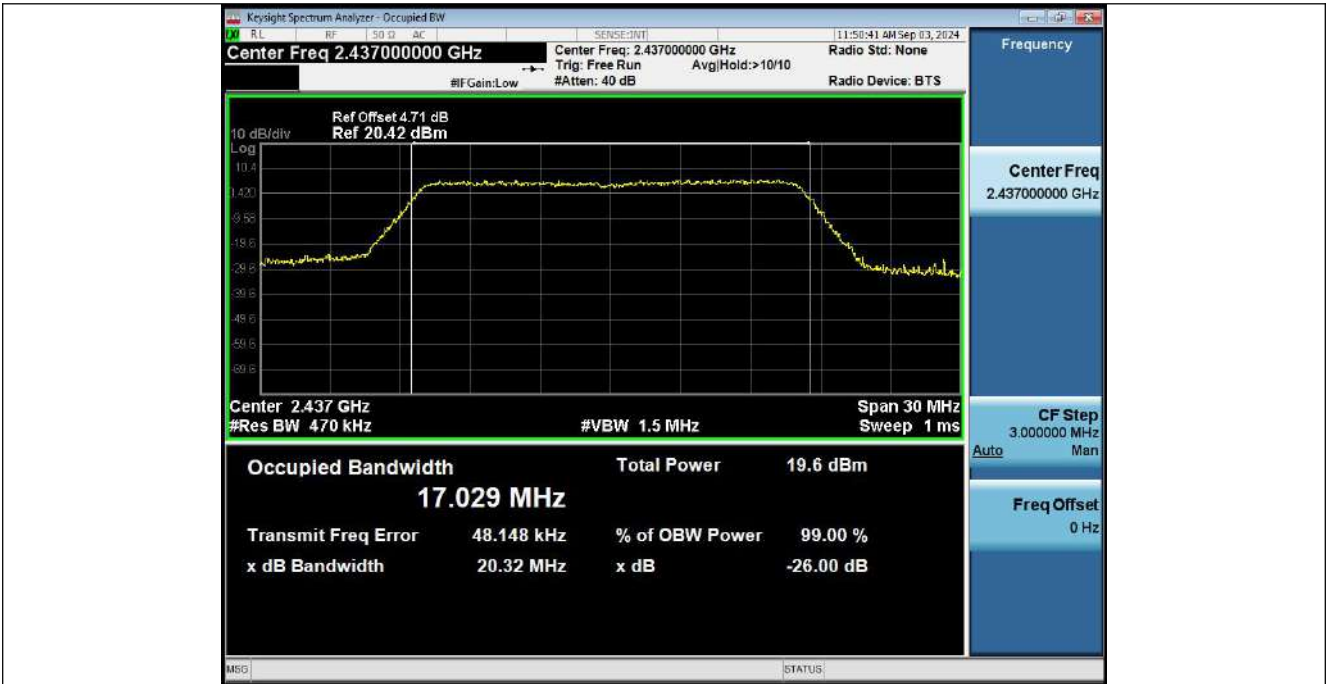
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



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

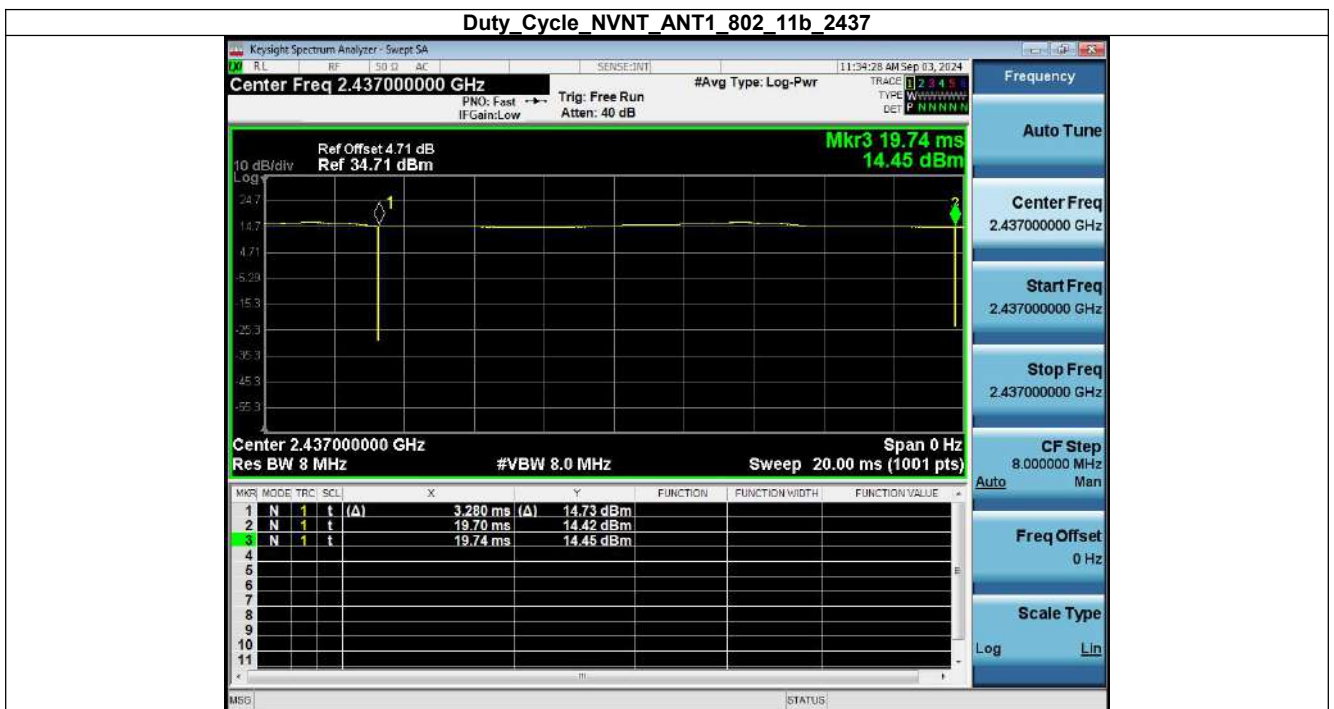
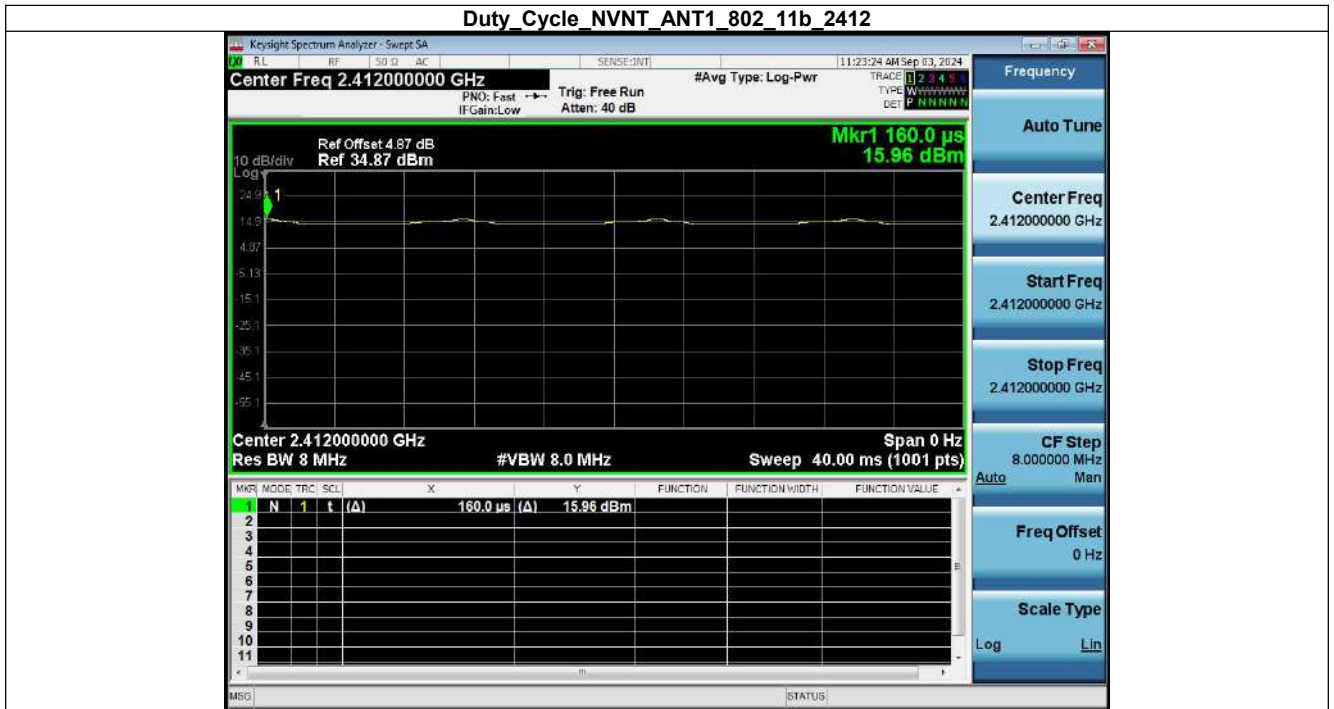


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



3. Duty Cycle

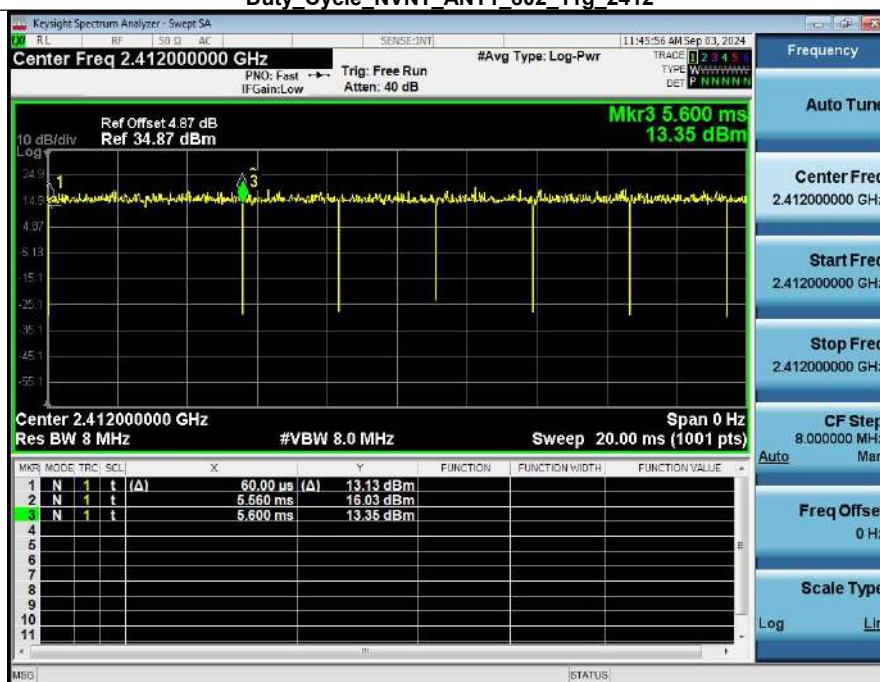
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	99.88	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	99.64	0.00
NVNT	ANT1	802.11g	2437.00	99.28	0.00
NVNT	ANT1	802.11g	2462.00	99.28	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	99.22	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	98.44	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	99.22	0.00



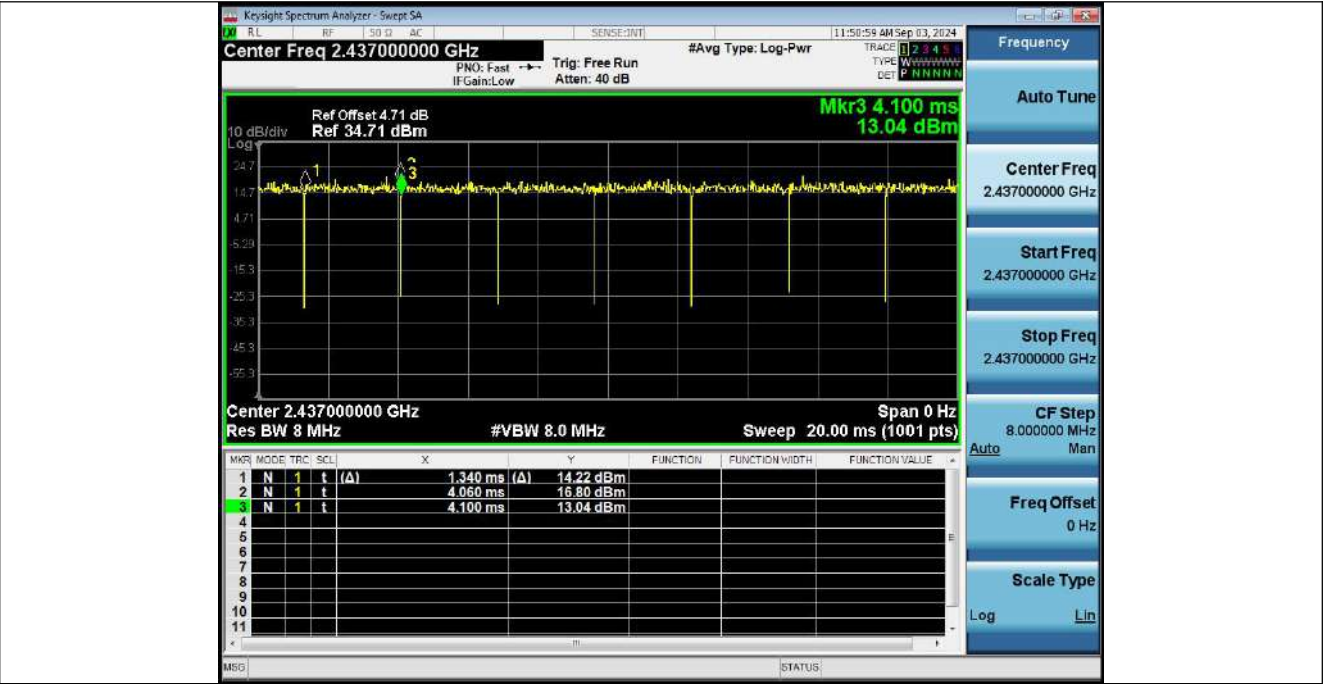
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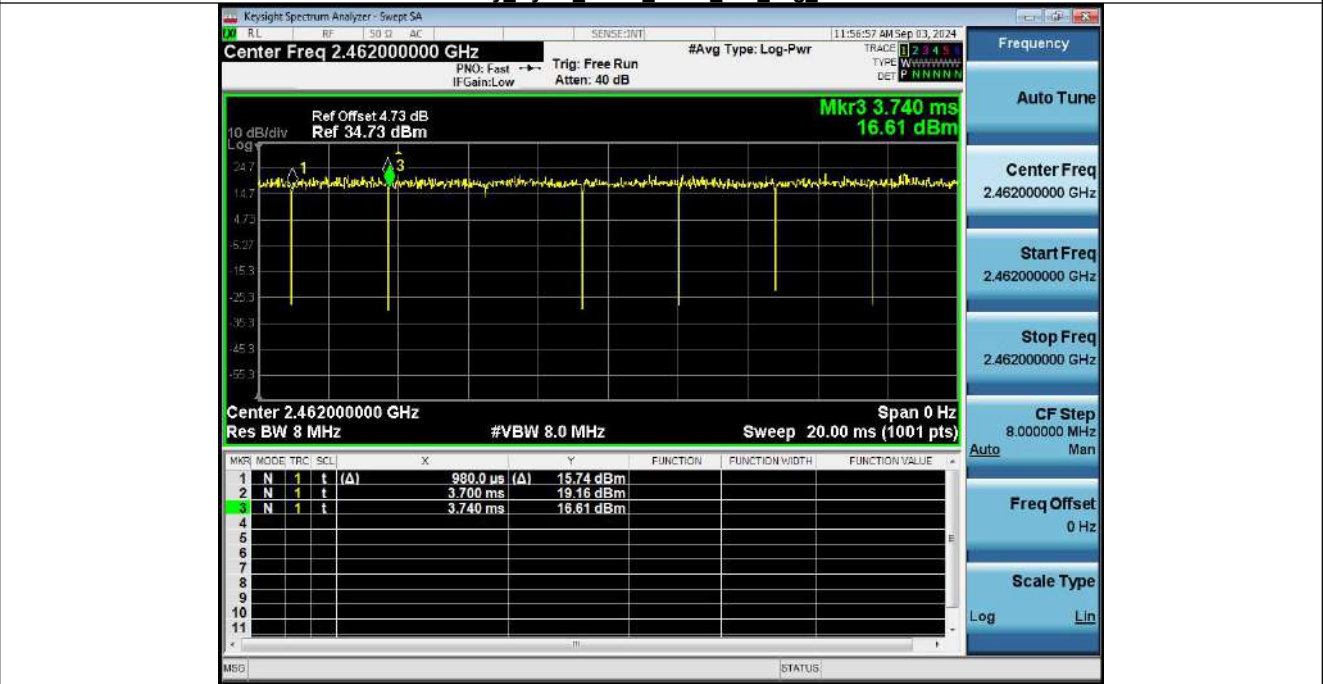
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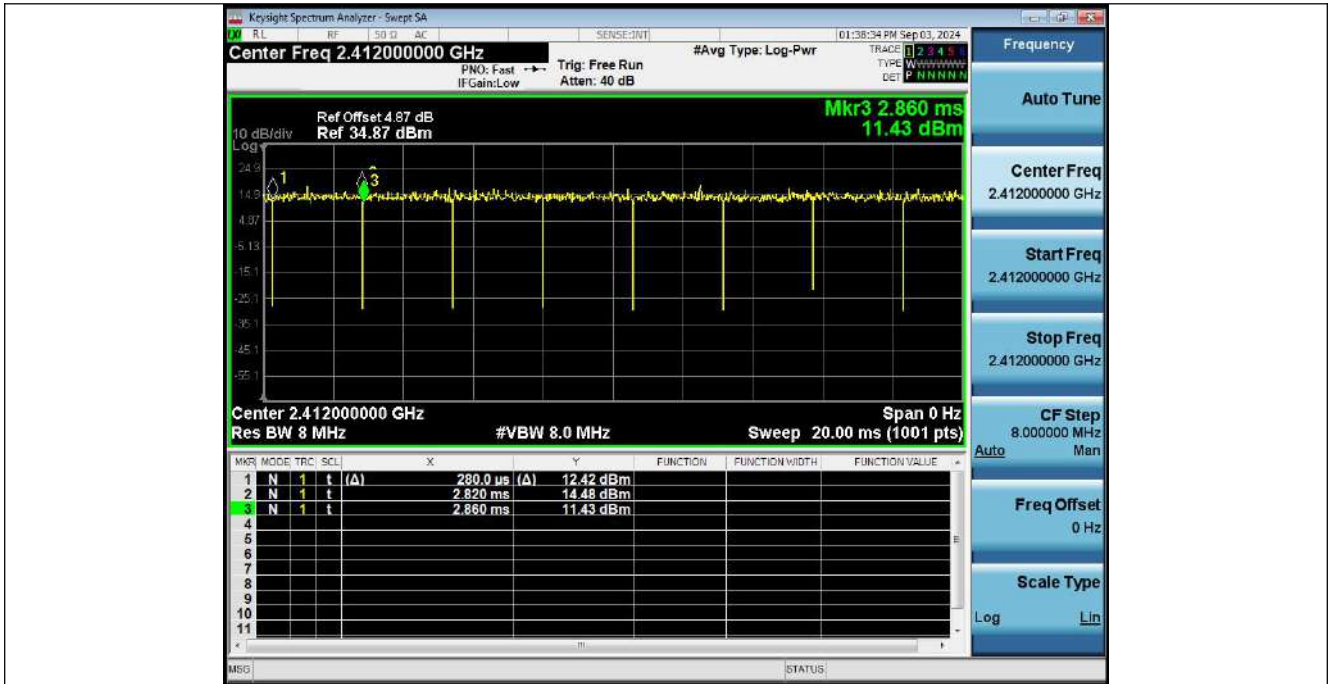
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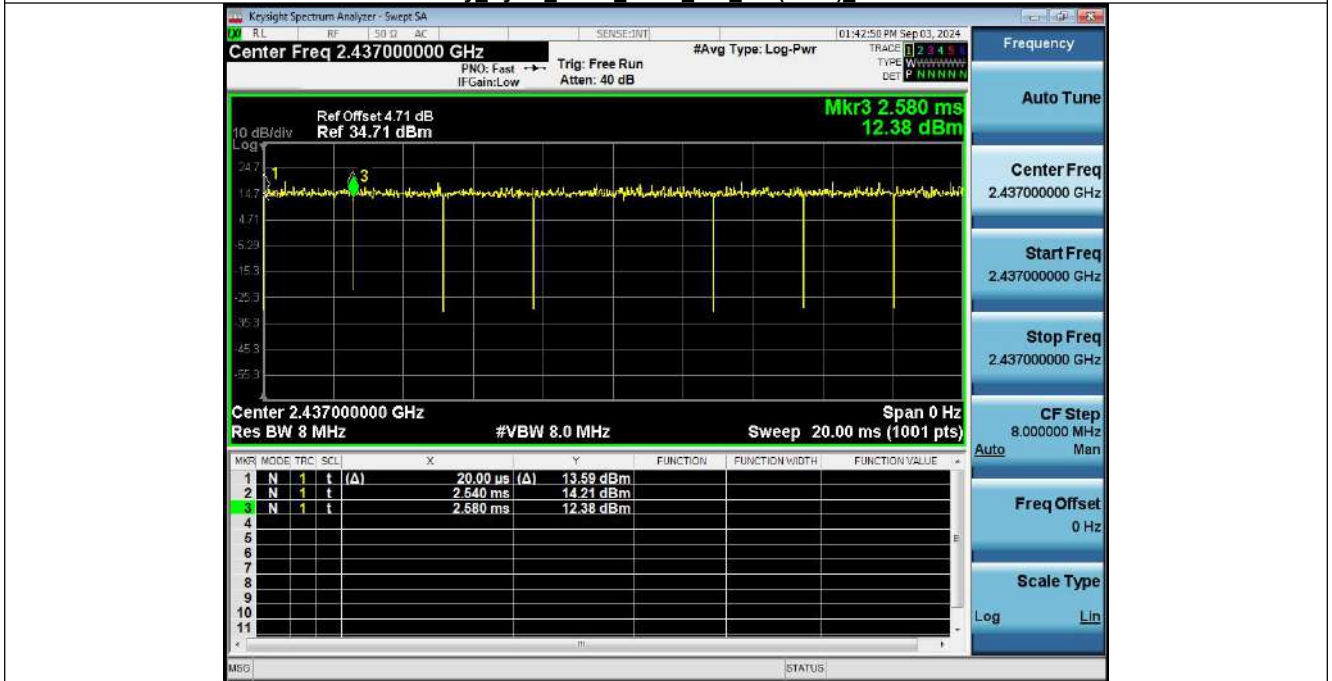
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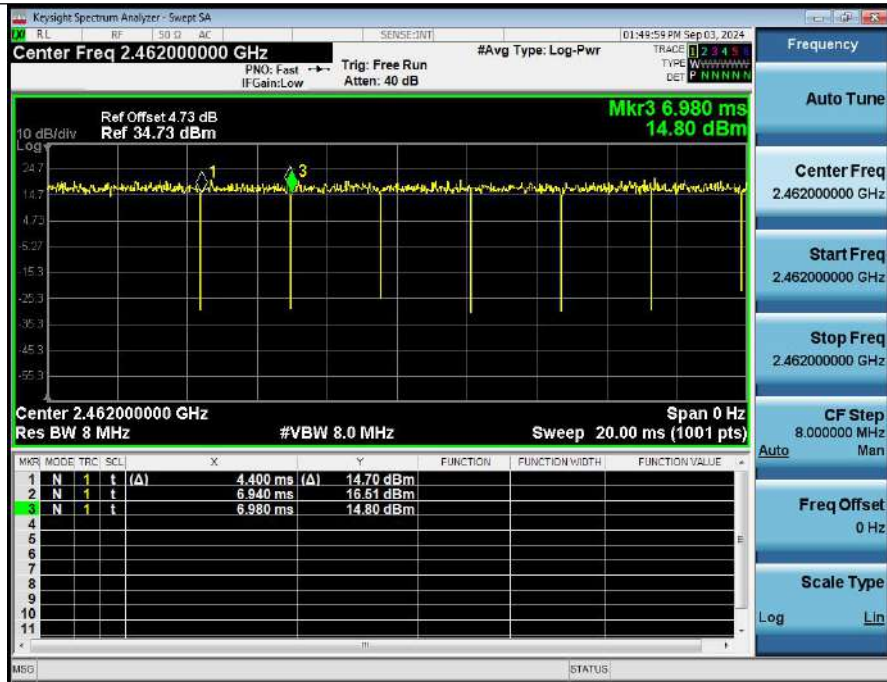
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



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)	Conducted limit(dBm)	Antenna Gain(dBi)	Total Power(dBm)	EIRP limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	17.77	30	5.21	22.98	36	Pass
NVNT	ANT1	802.11b	2437.00	Peak	18.46	30	5.21	23.67	36	Pass
NVNT	ANT1	802.11b	2462.00	Peak	20.24	30	5.21	25.45	36	Pass
NVNT	ANT1	802.11g	2412.00	Peak	19.57	30	5.21	24.78	36	Pass
NVNT	ANT1	802.11g	2437.00	Peak	20.36	30	5.21	25.57	36	Pass
NVNT	ANT1	802.11g	2462.00	Peak	22.35	30	5.21	27.56	36	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	18.29	30	5.21	23.50	36	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	19.19	30	5.21	24.40	36	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	21.19	30	5.21	26.40	36	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	-1.60	N/A	-10.00	-11.60	8	Pass
NVNT	ANT1	802.11b	2437.00	-1.22	N/A	-10.00	-11.22	8	Pass
NVNT	ANT1	802.11b	2462.00	1.67	N/A	-10.00	-8.34	8	Pass
NVNT	ANT1	802.11g	2412.00	-3.41	N/A	-10.00	-13.41	8	Pass
NVNT	ANT1	802.11g	2437.00	-3.29	N/A	-10.00	-13.29	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.30	N/A	-10.00	-11.30	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-5.60	N/A	-10.00	-15.60	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.00	N/A	-10.00	-15.00	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.81	N/A	-10.00	-12.81	8	Pass



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



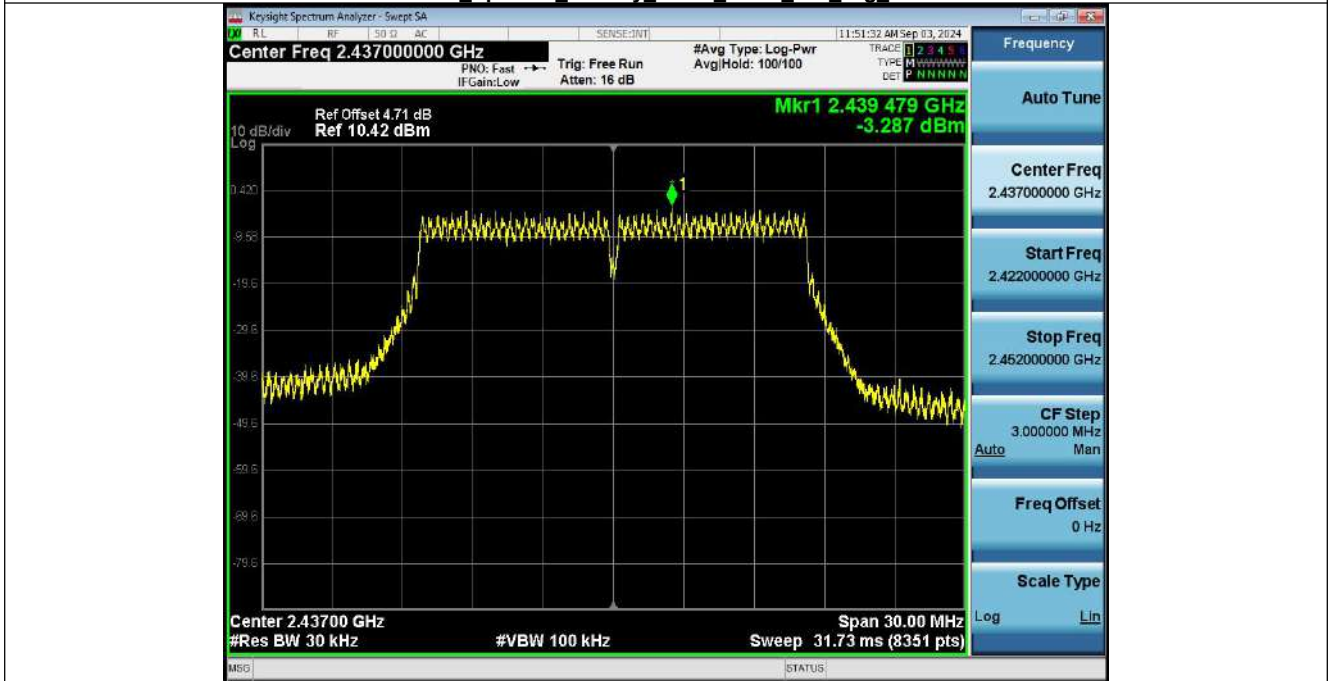
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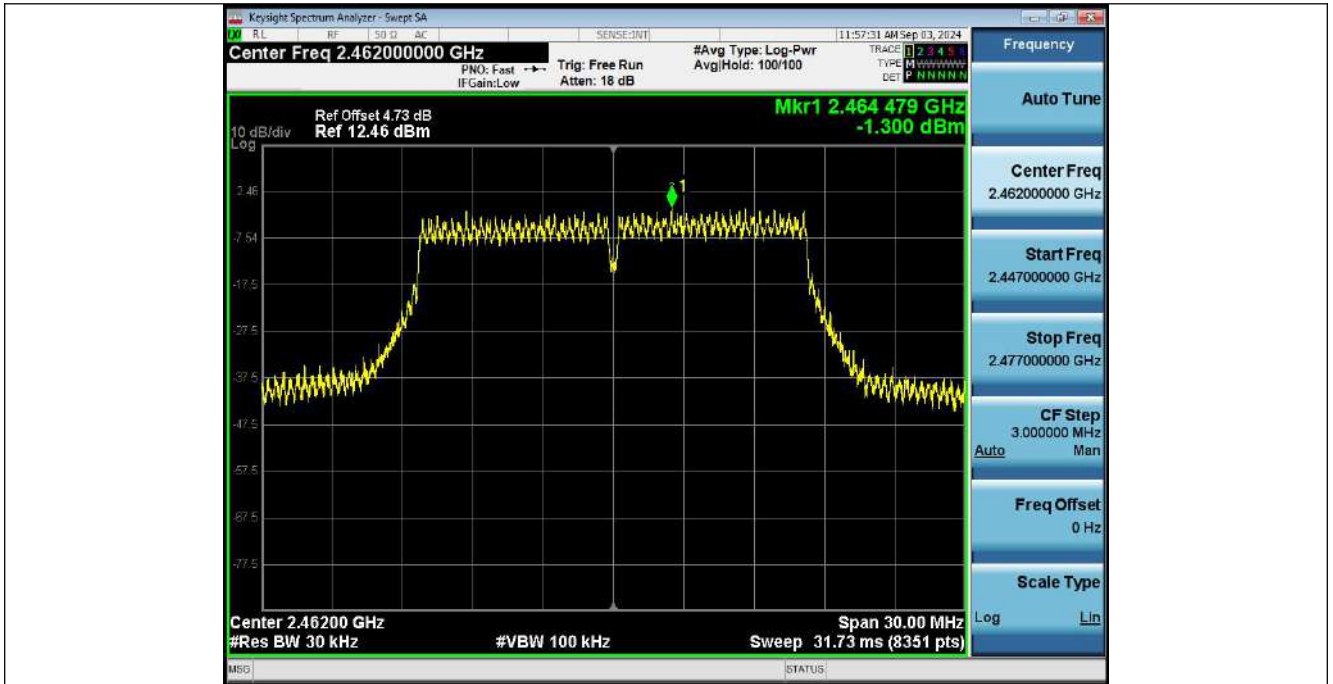
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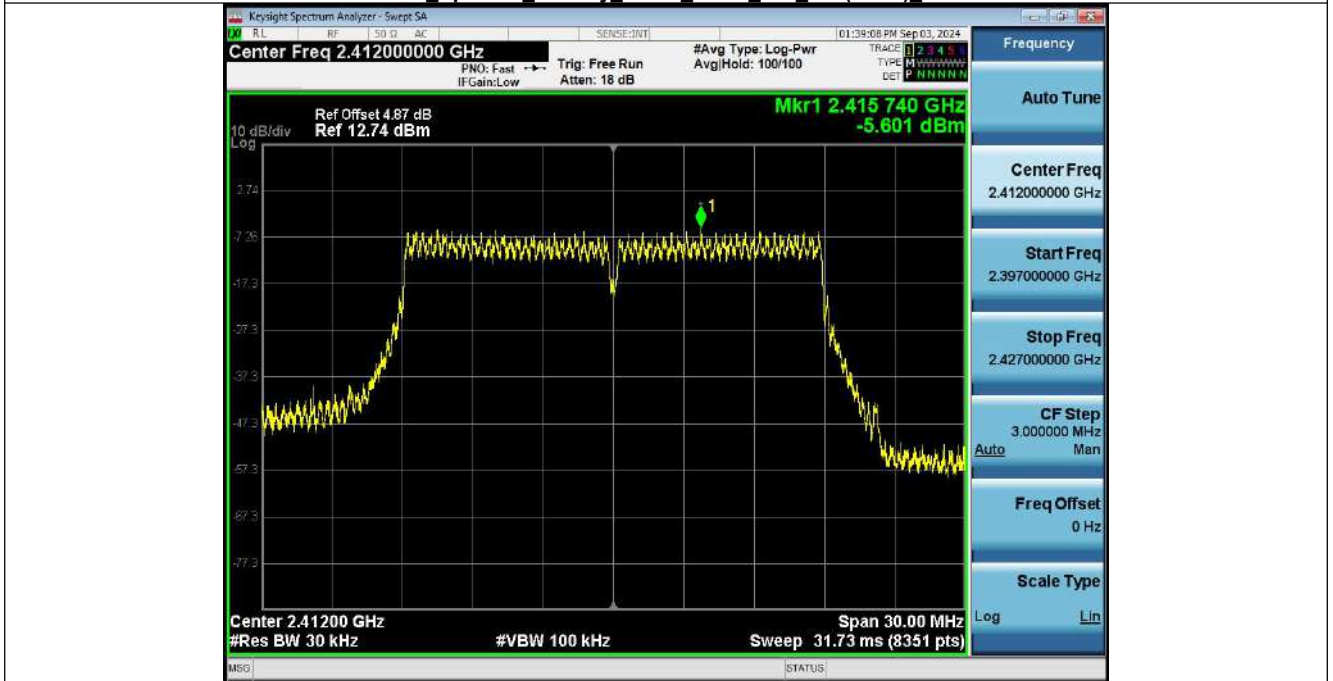
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Power_Spectral_Density_NVNT_ANT1_802_11g_2462



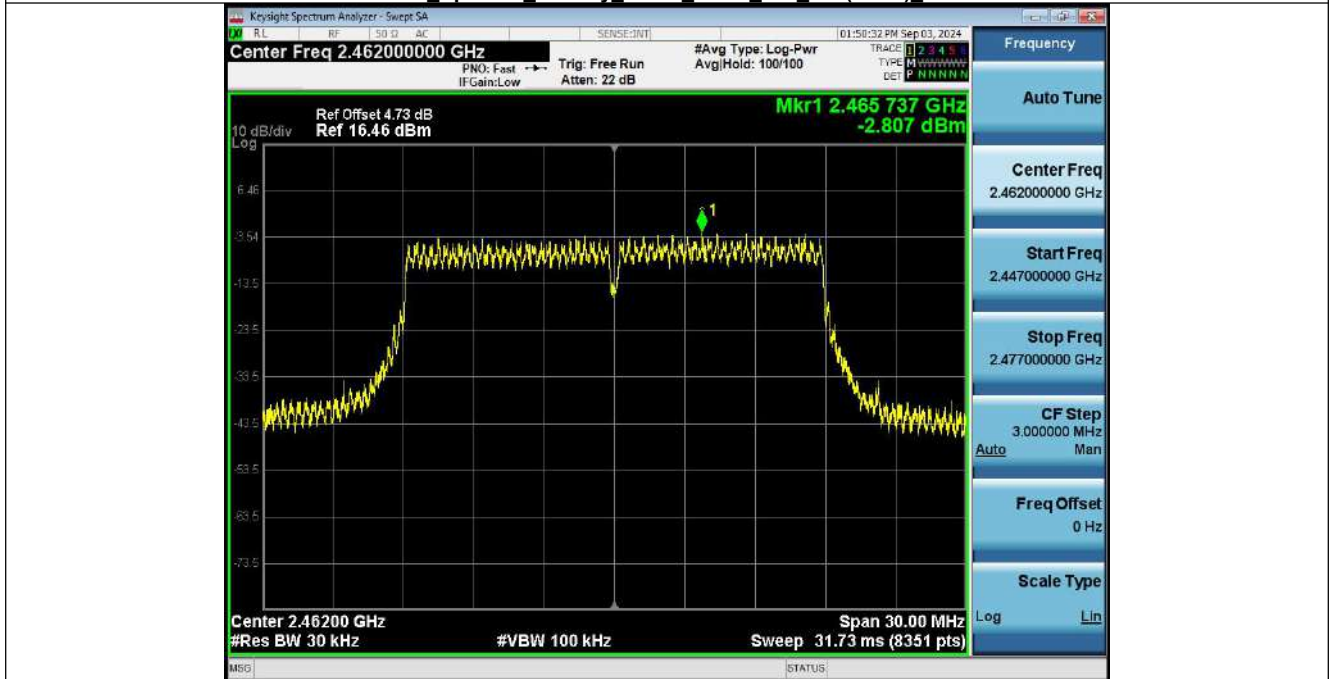
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



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	2397.024	-47.169	-18.434	Pass
NVNT	ANT1	802.11b	2462.00	2500.000	-49.771	-15.583	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-34.998	-19.373	Pass
NVNT	ANT1	802.11g	2462.00	2484.784	-34.884	-17.380	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.264	-37.396	-20.525	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.824	-39.064	-17.870	Pass

1 Reference Level NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



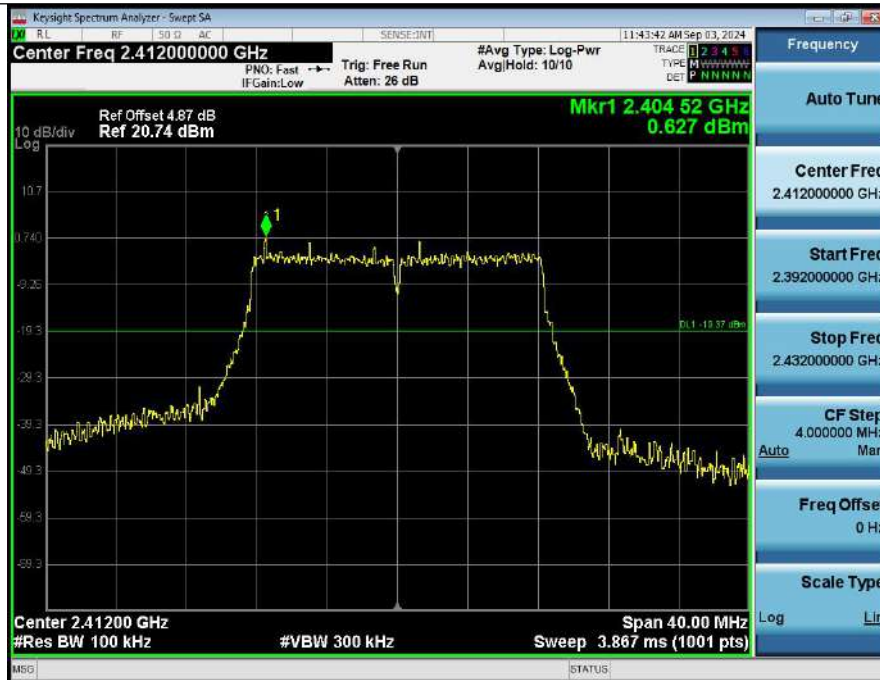
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2_Bandedge_NVNT_ANT1_802_11b_2462



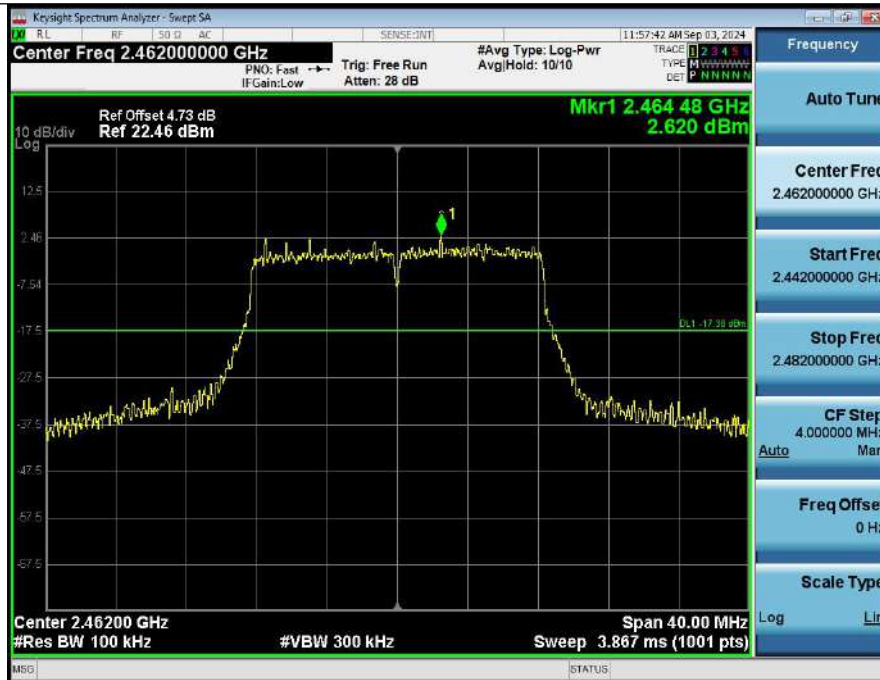
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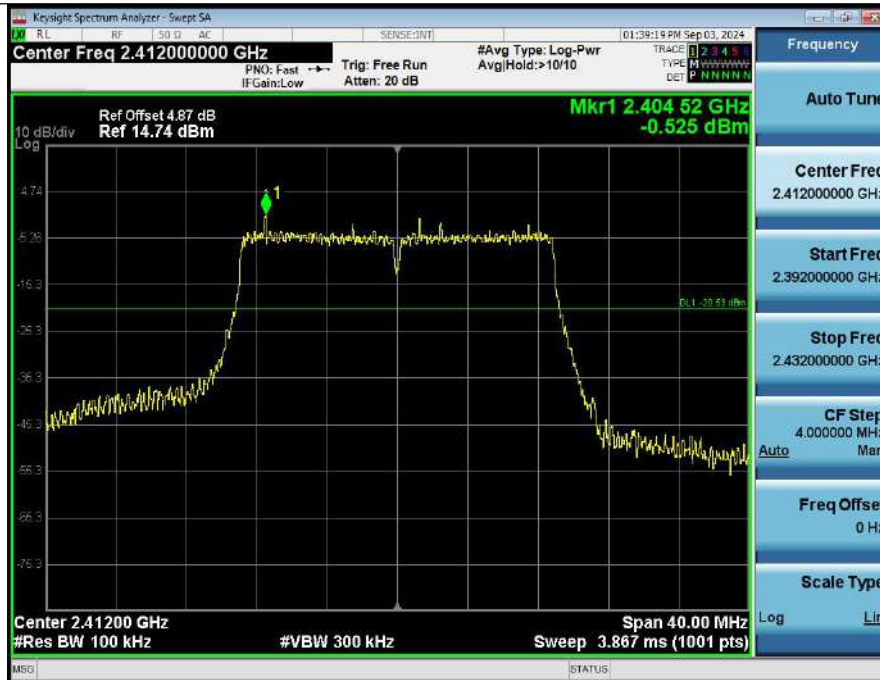
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2_Bandedge_NVNT_ANT1_802_11g_2462



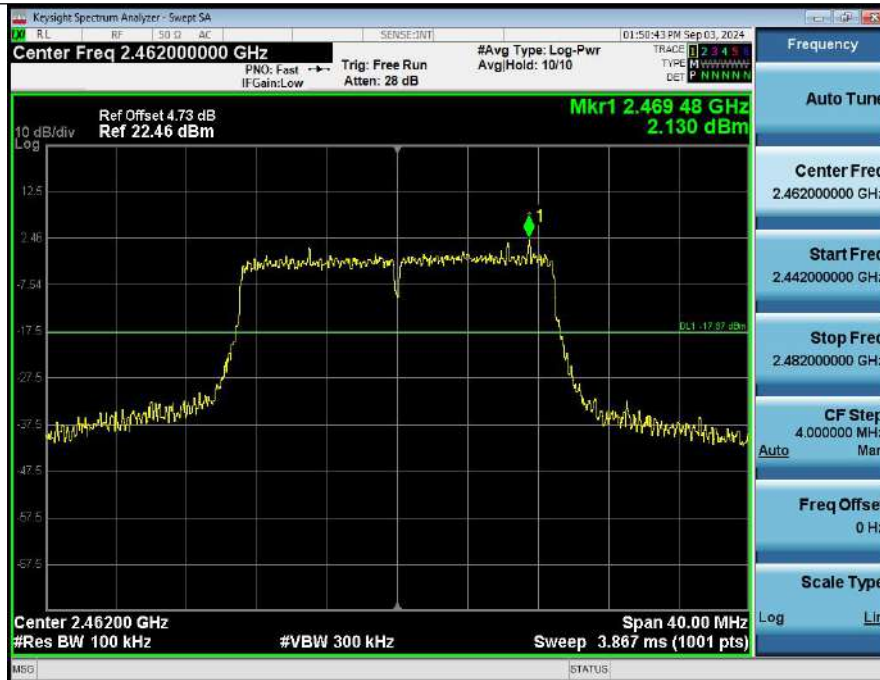
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



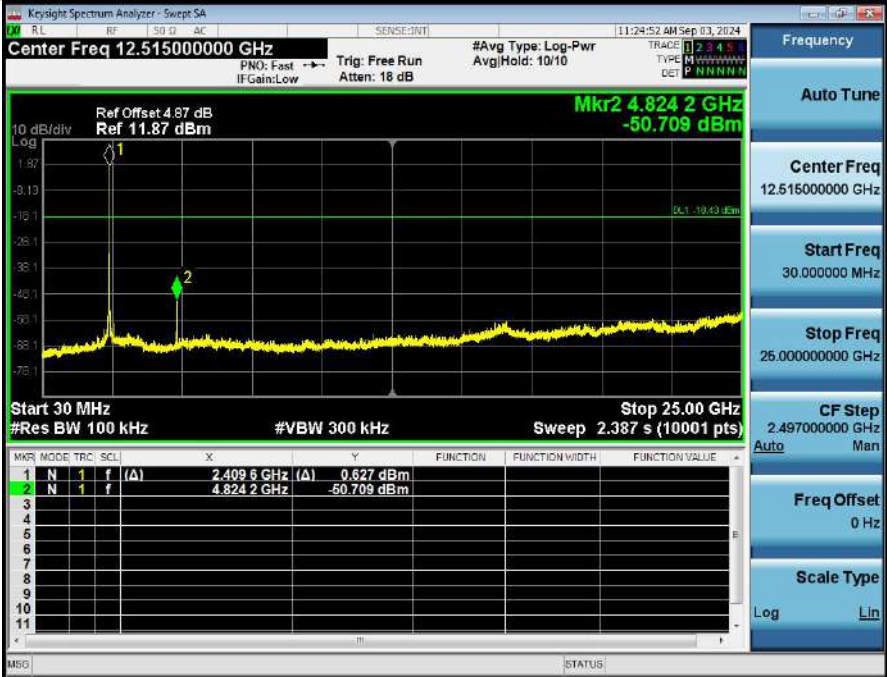
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	4824.240	-50.709	-18.434	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	-50.781	-17.845	Pass
NVNT	ANT1	802.11b	2462.00	24975.030	-46.873	-15.583	Pass
NVNT	ANT1	802.11g	2412.00	24957.551	-50.259	-19.373	Pass
NVNT	ANT1	802.11g	2437.00	24957.551	-54.269	-19.505	Pass
NVNT	ANT1	802.11g	2462.00	24555.534	-49.430	-17.380	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24473.133	-57.091	-20.525	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	25000.000	-51.693	-20.463	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24840.192	-49.458	-17.870	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



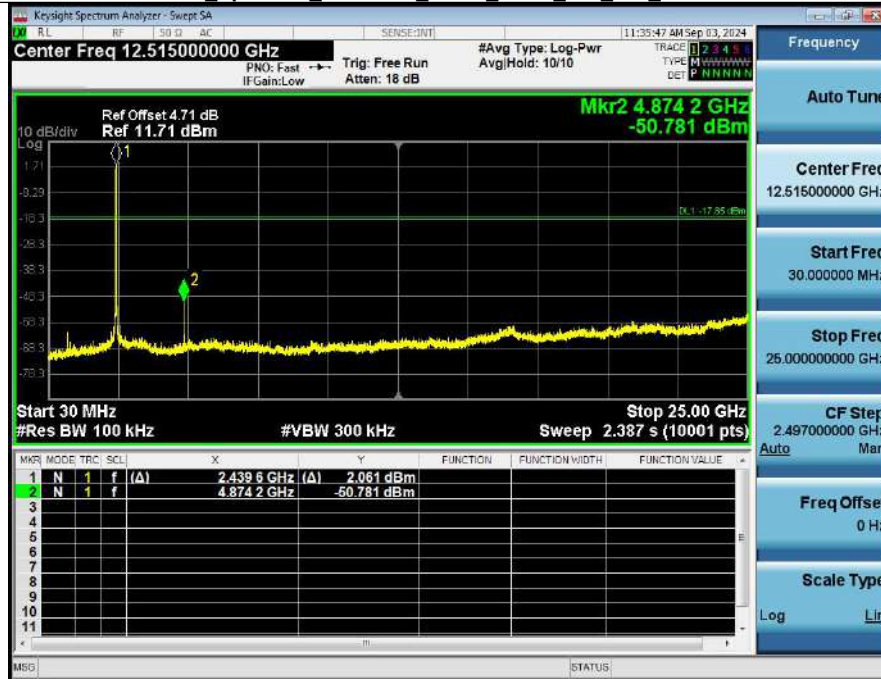
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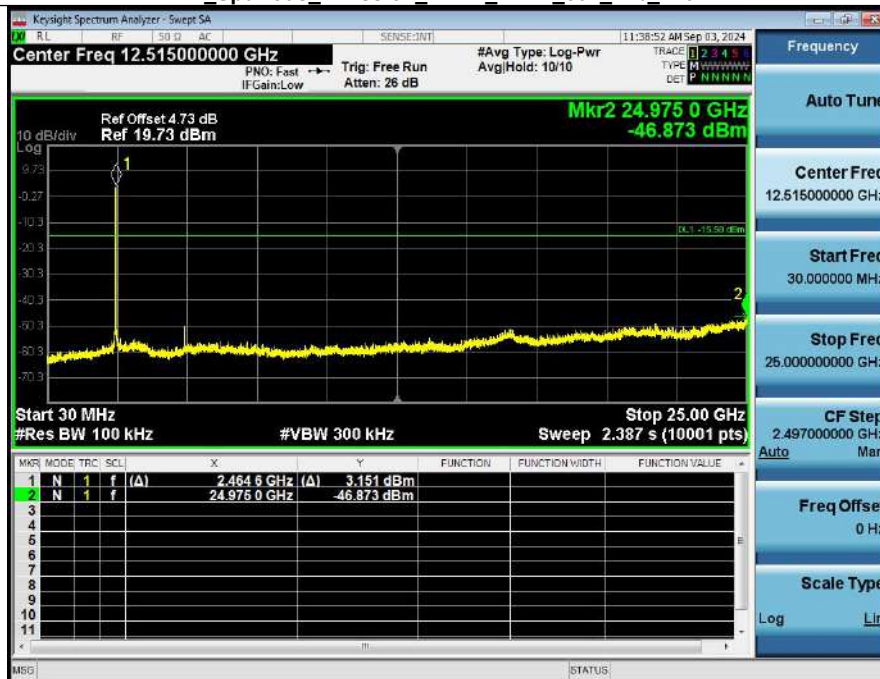
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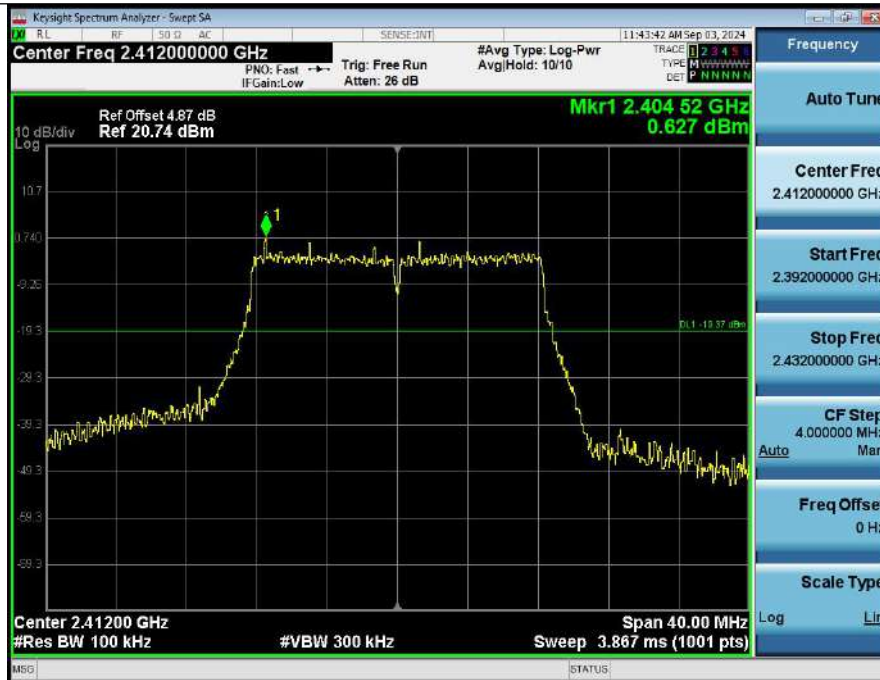
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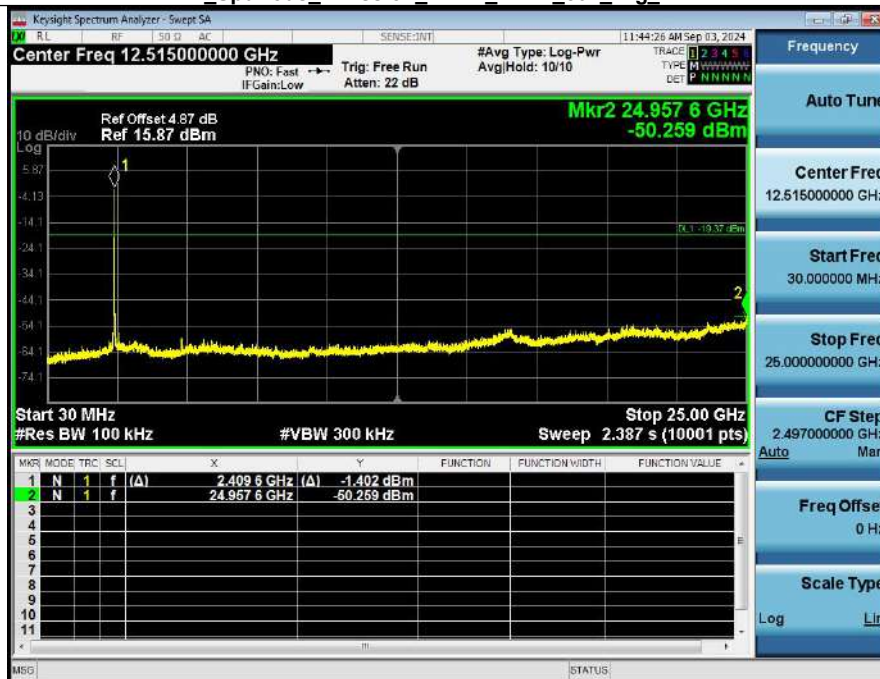
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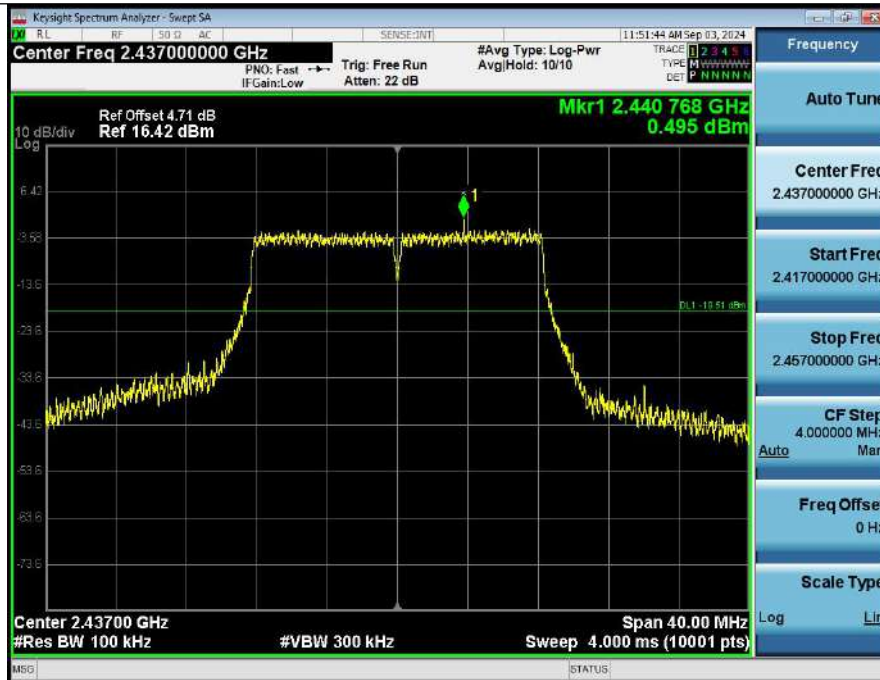
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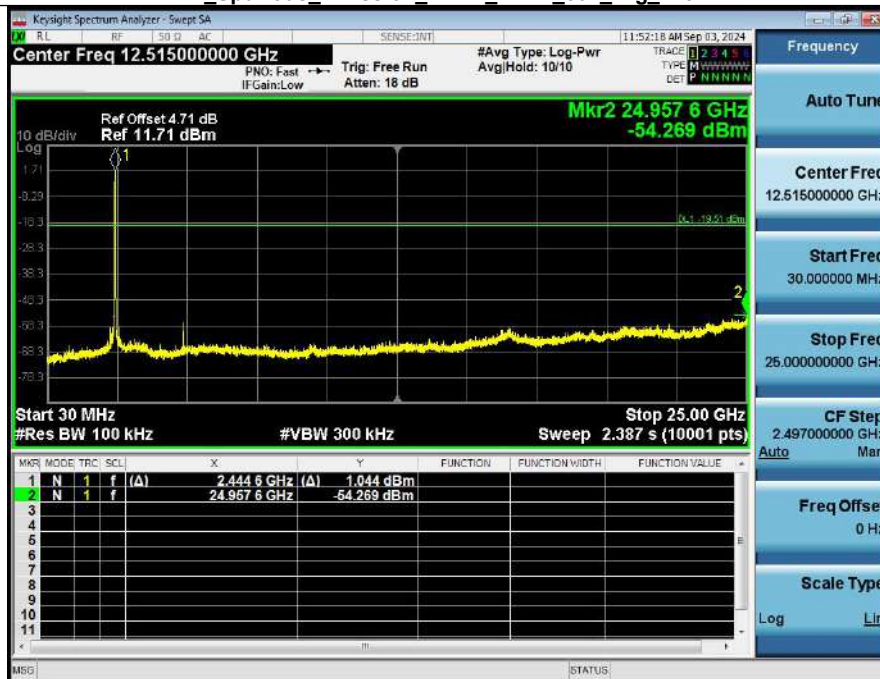
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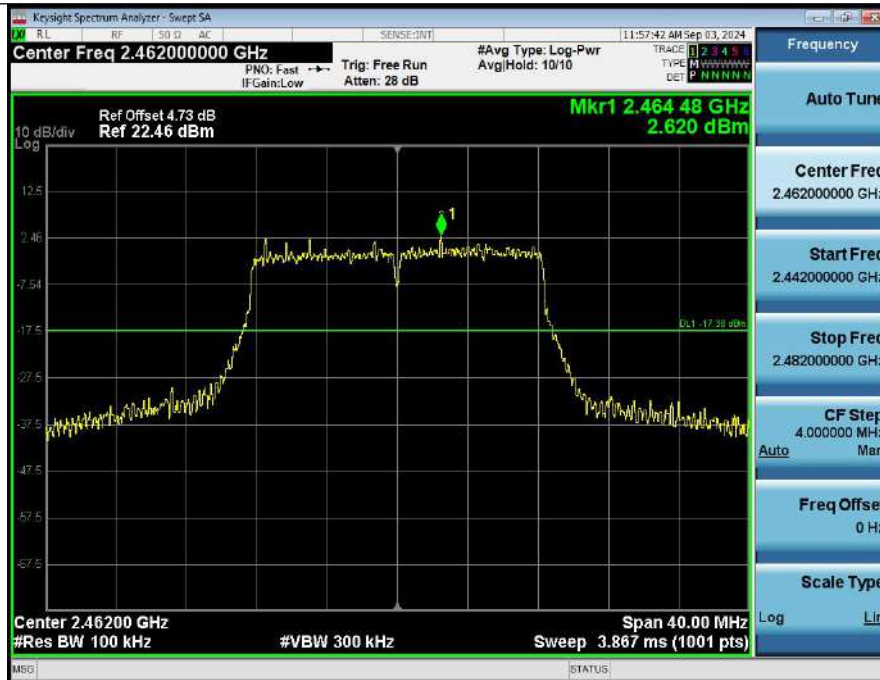
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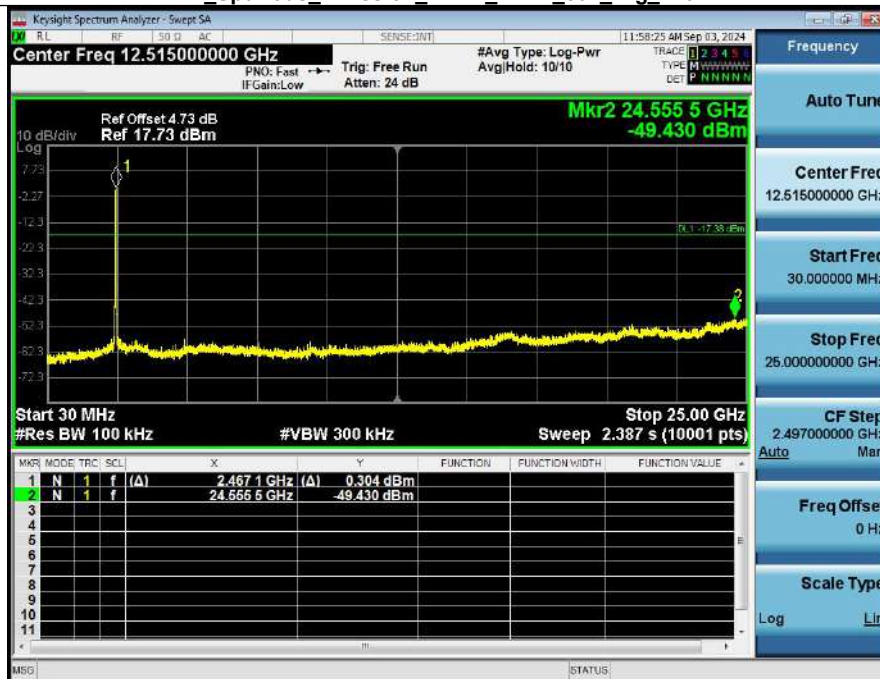
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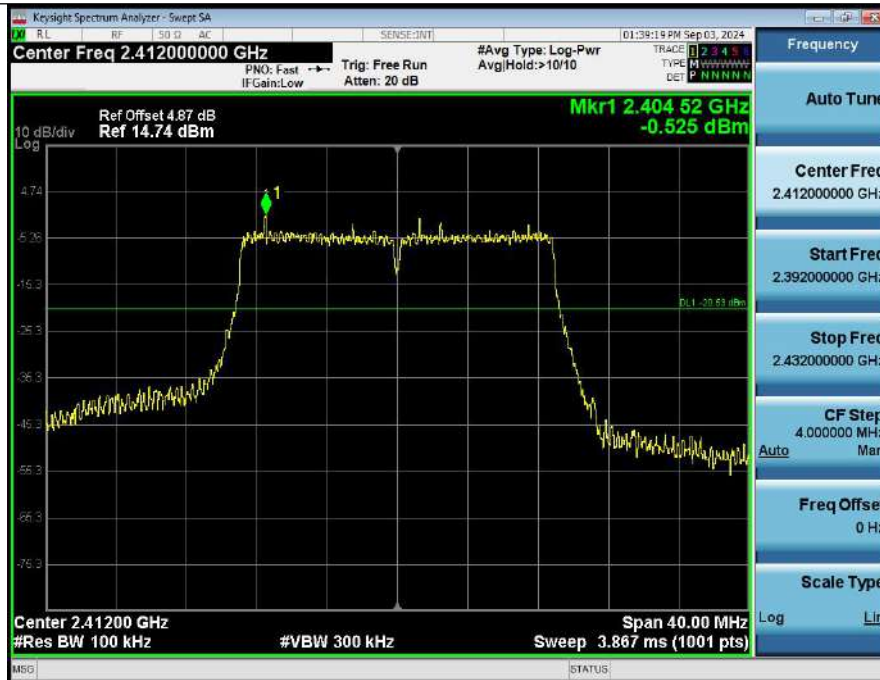
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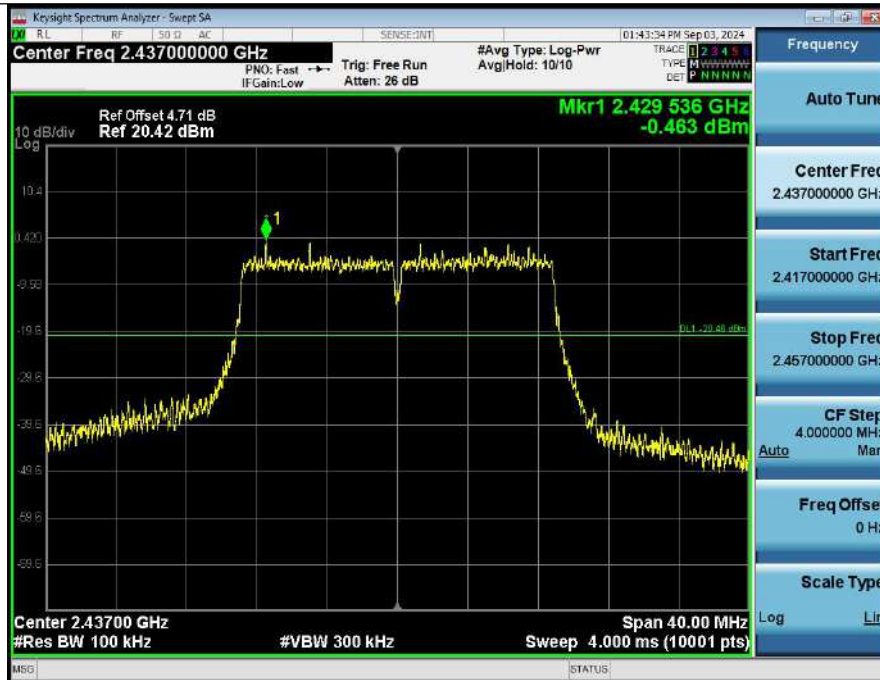
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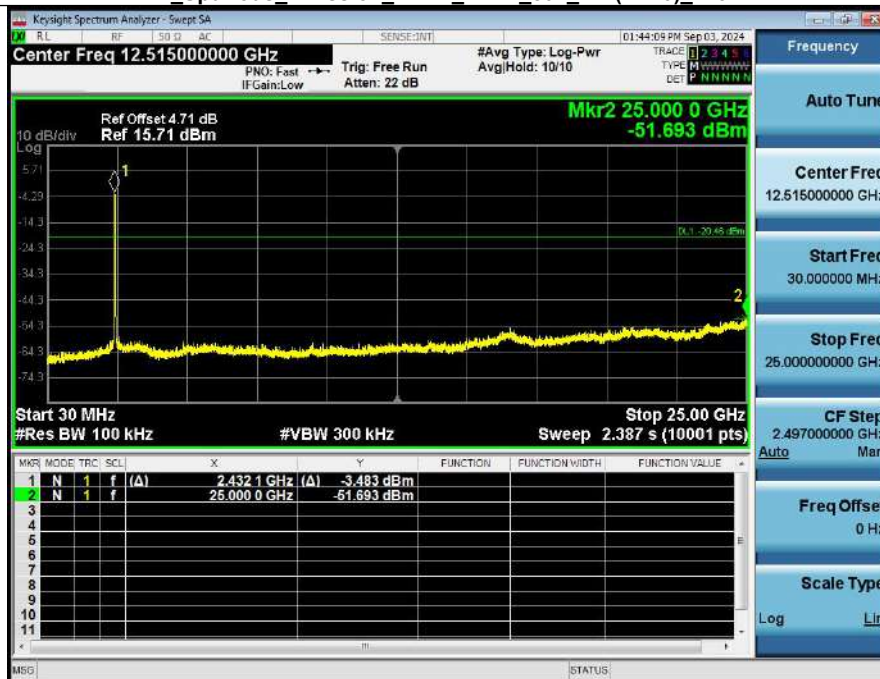
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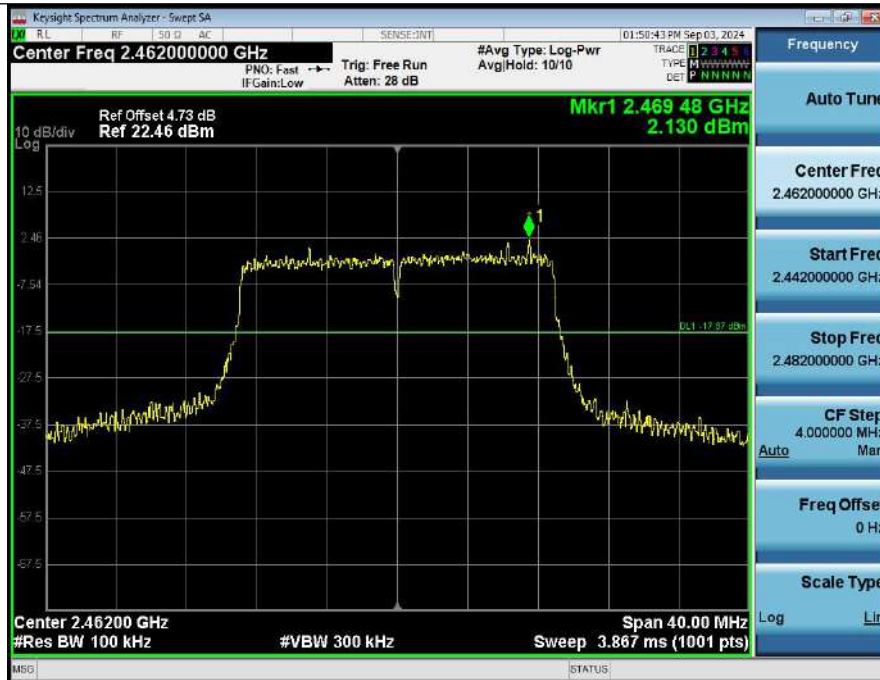
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

