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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	9.06	500	Pass
NVNT	ANT1	802.11b	2437.00	8.13	500	Pass
NVNT	ANT1	802.11b	2462.00	8.62	500	Pass
NVNT	ANT1	802.11g	2412.00	16.11	500	Pass
NVNT	ANT1	802.11g	2437.00	16.36	500	Pass
NVNT	ANT1	802.11g	2462.00	16.11	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.16	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.43	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.02	500	Pass



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437





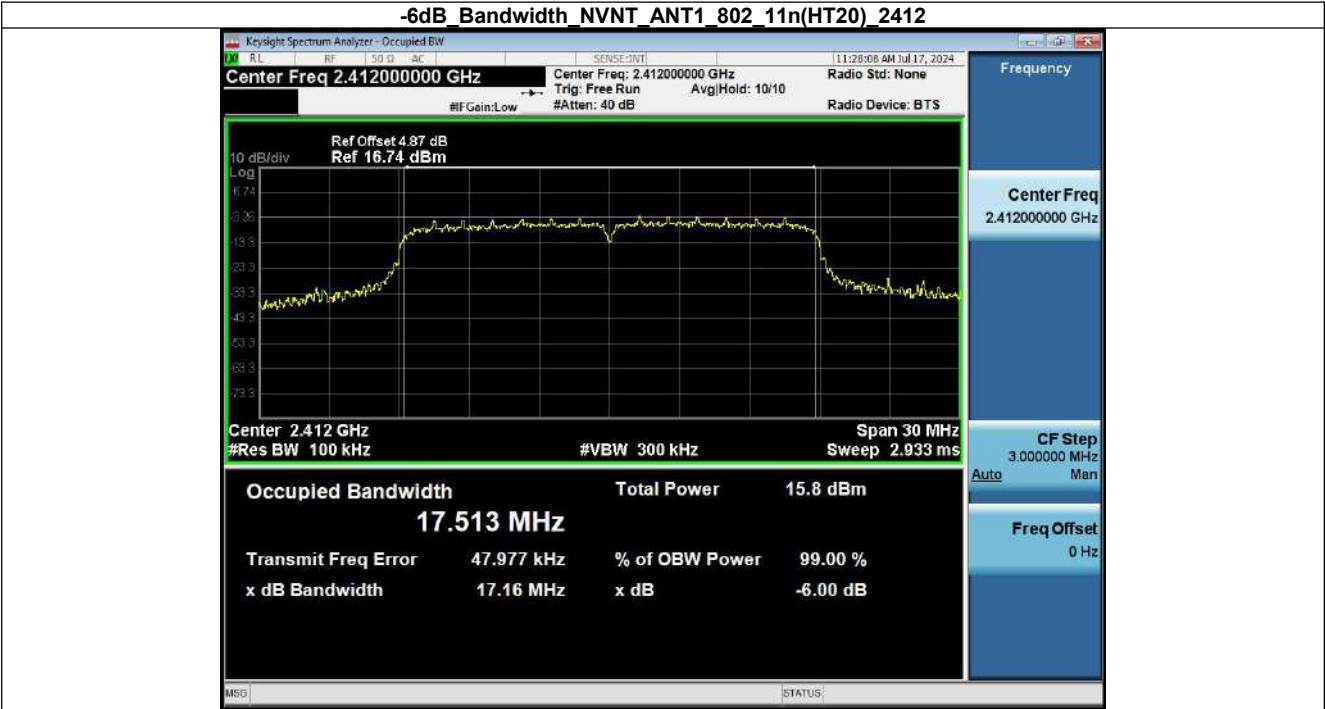
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



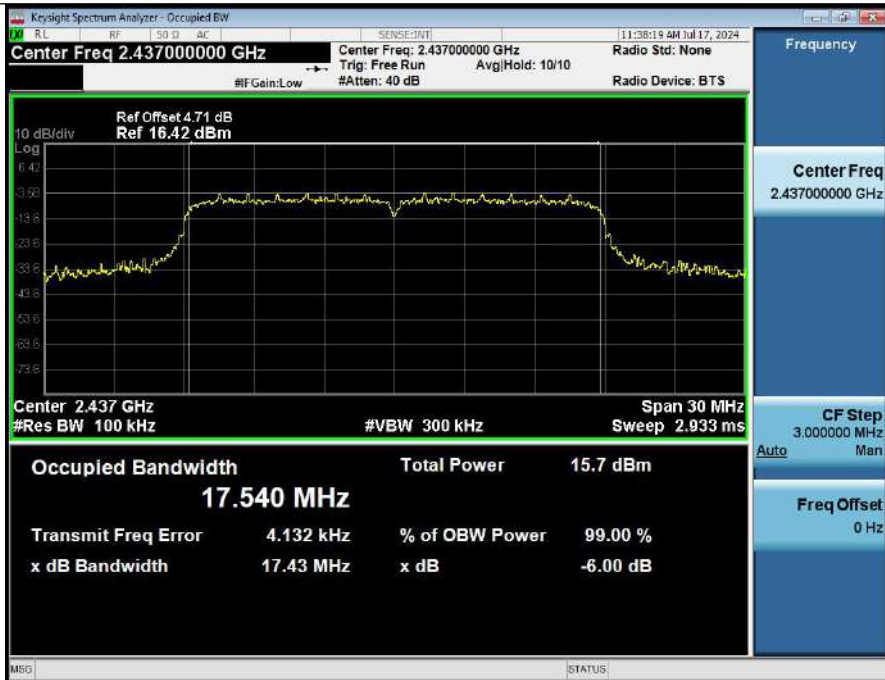
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

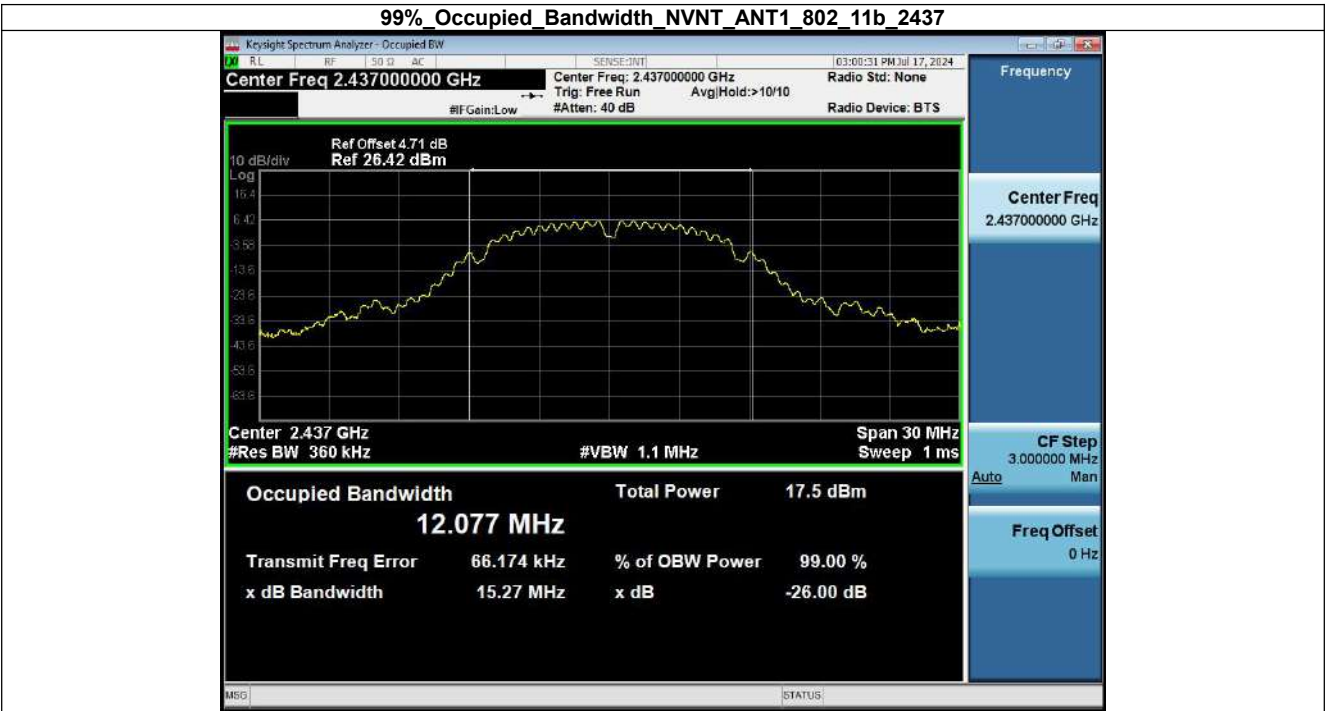
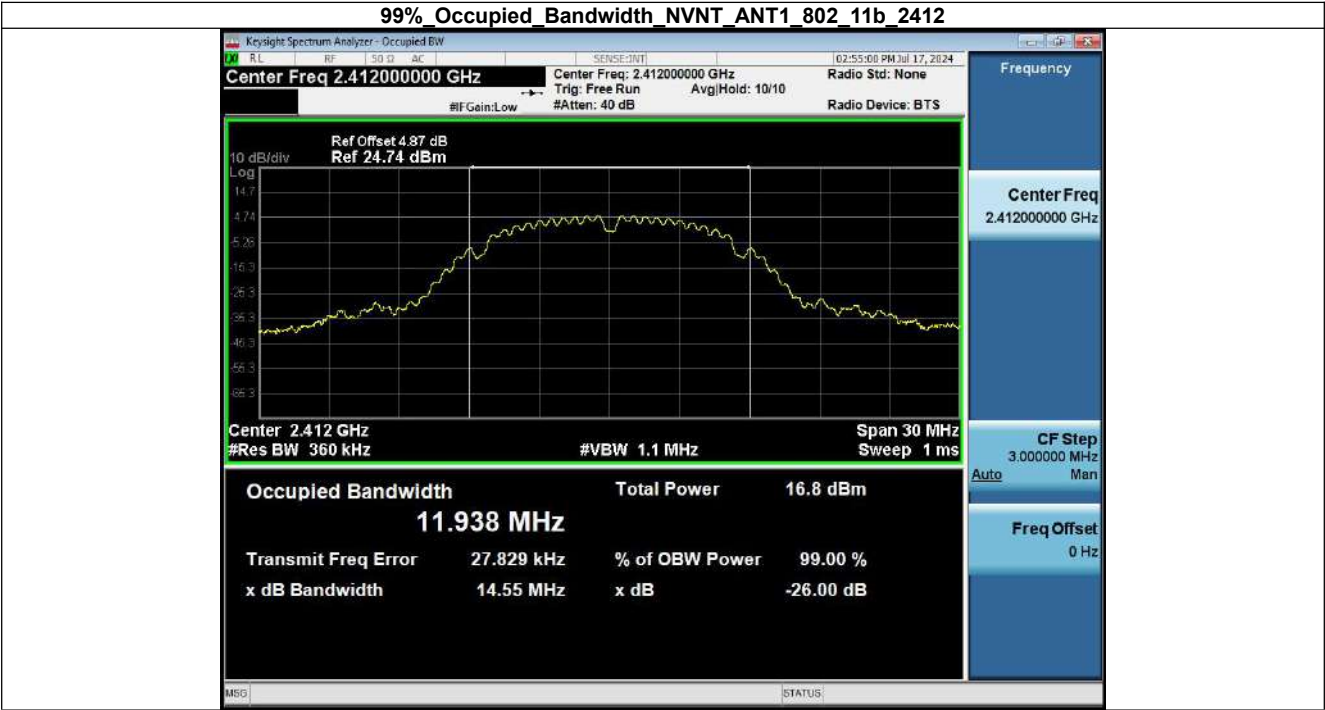


-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.938
NVNT	ANT1	802.11b	2437.00	12.077
NVNT	ANT1	802.11b	2462.00	12.040
NVNT	ANT1	802.11g	2412.00	17.170
NVNT	ANT1	802.11g	2437.00	17.131
NVNT	ANT1	802.11g	2462.00	17.107
NVNT	ANT1	802.11n(HT20)	2412.00	17.847
NVNT	ANT1	802.11n(HT20)	2437.00	17.854
NVNT	ANT1	802.11n(HT20)	2462.00	17.866



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

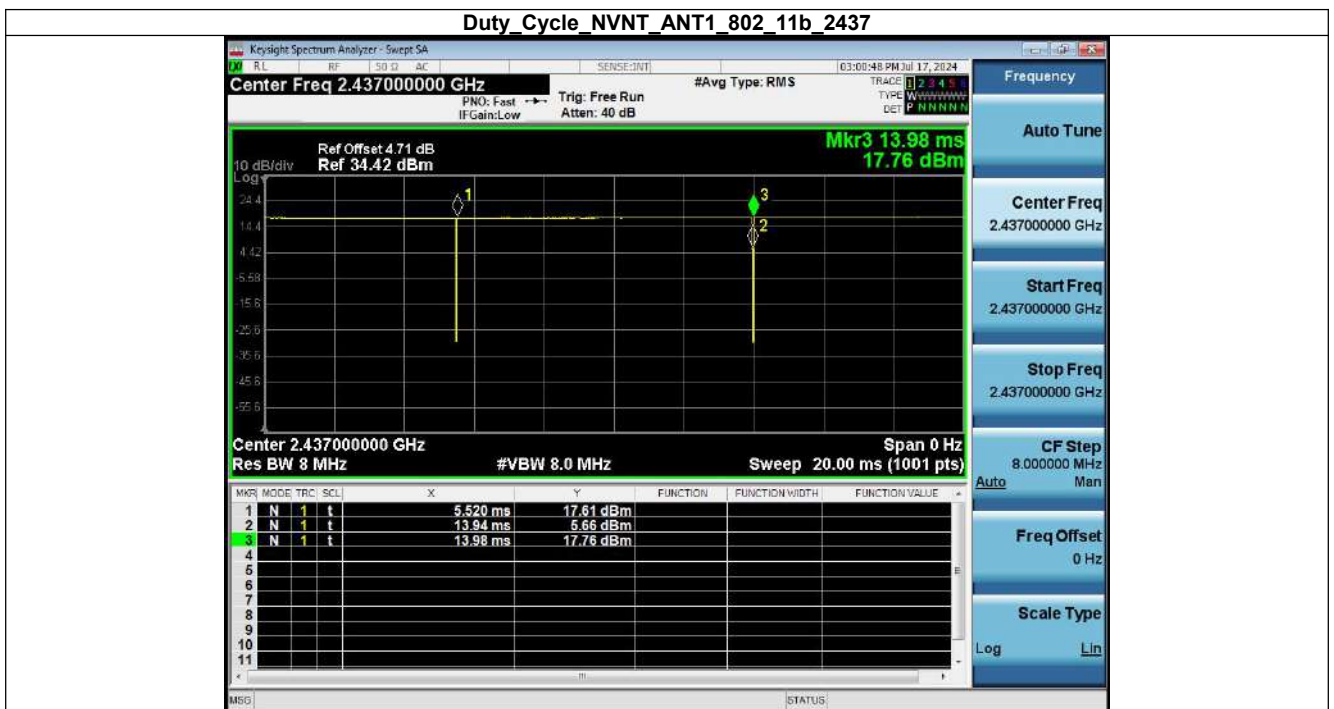
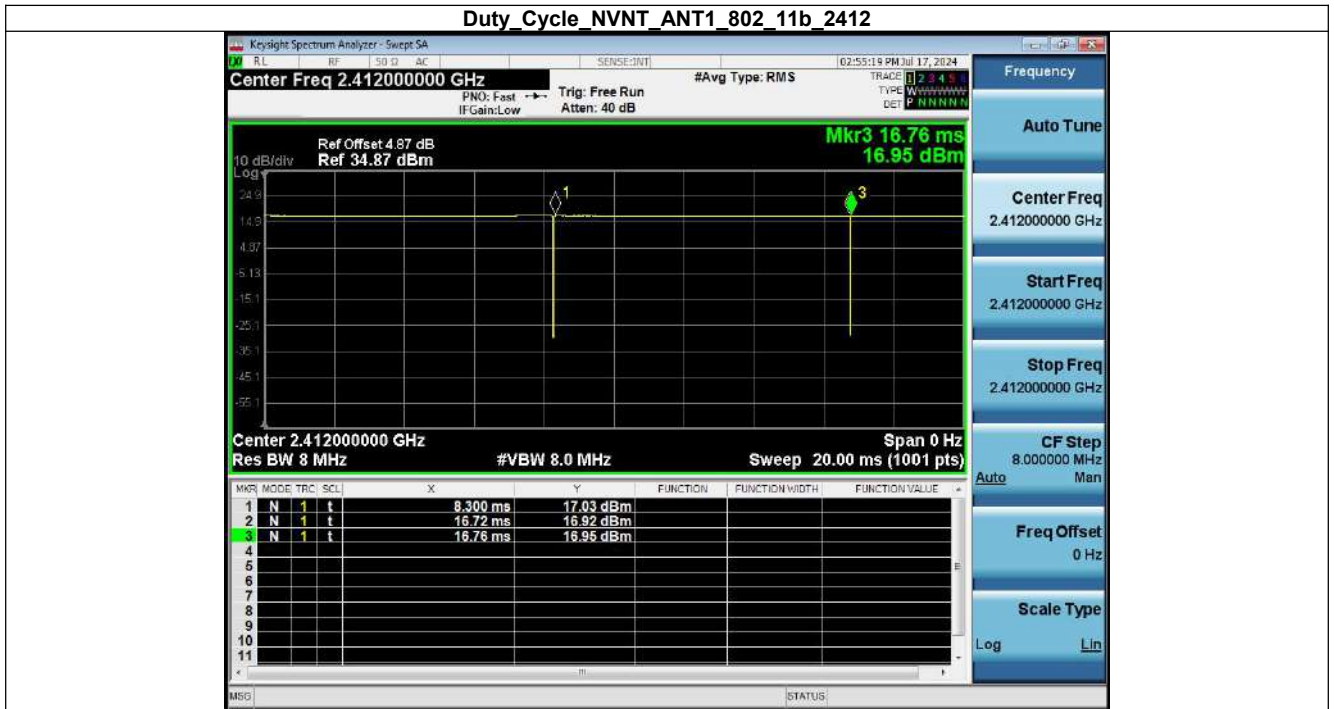


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

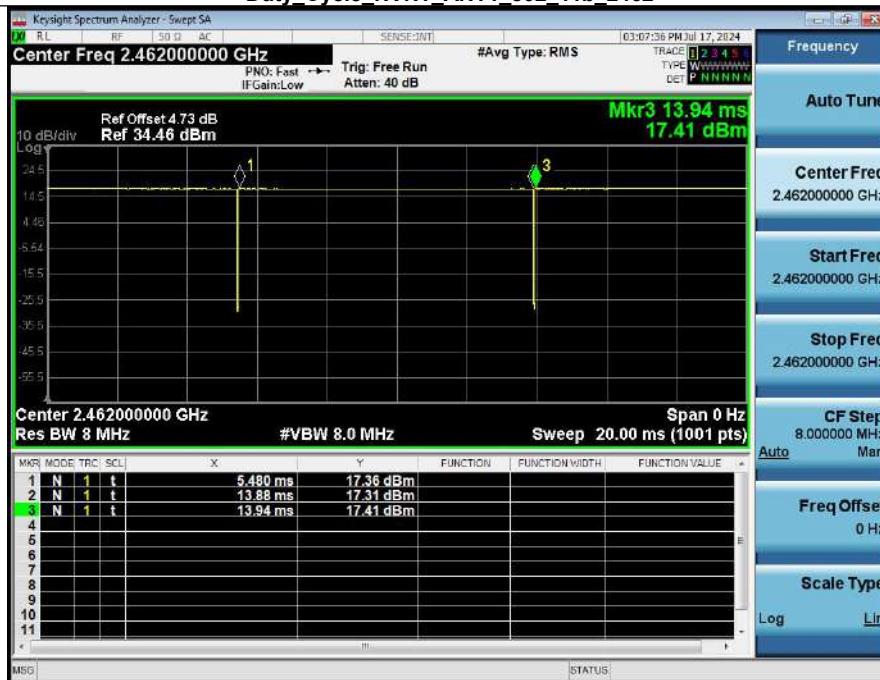


3. Duty Cycle

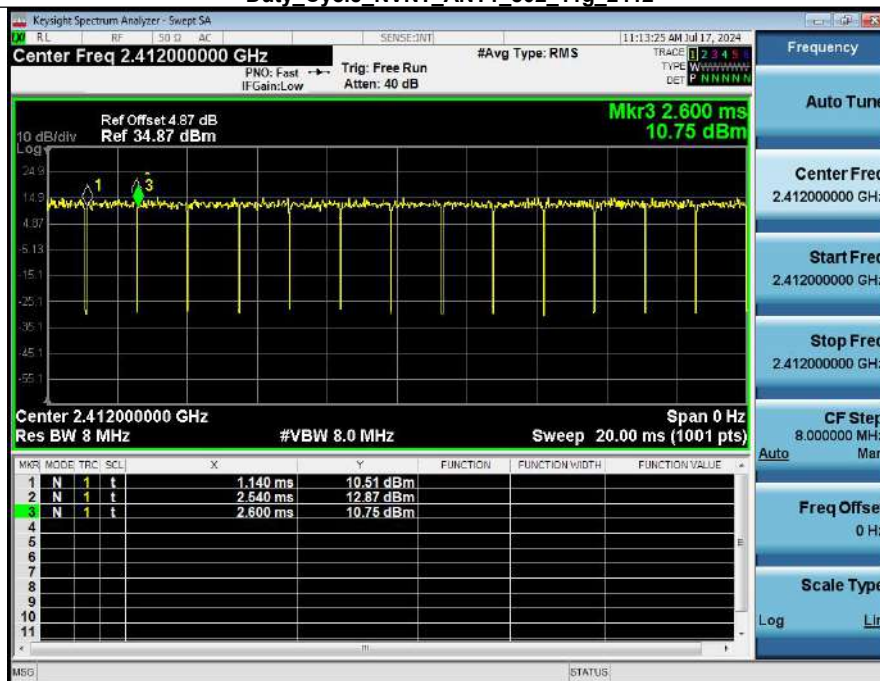
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	98.61	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	95.24	0.21
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14



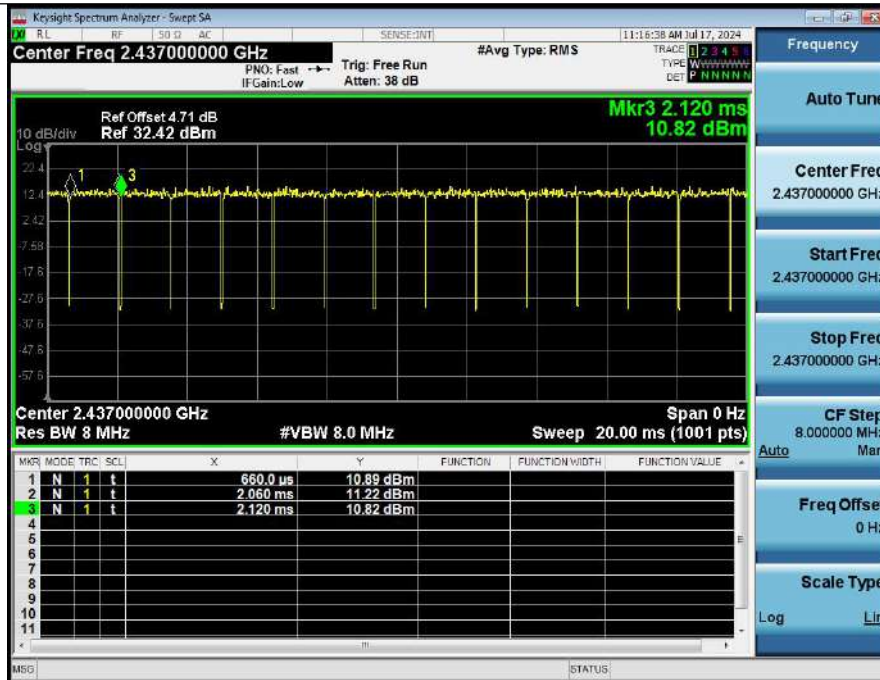
Duty Cycle NVNT_ANT1_802_11b_2462



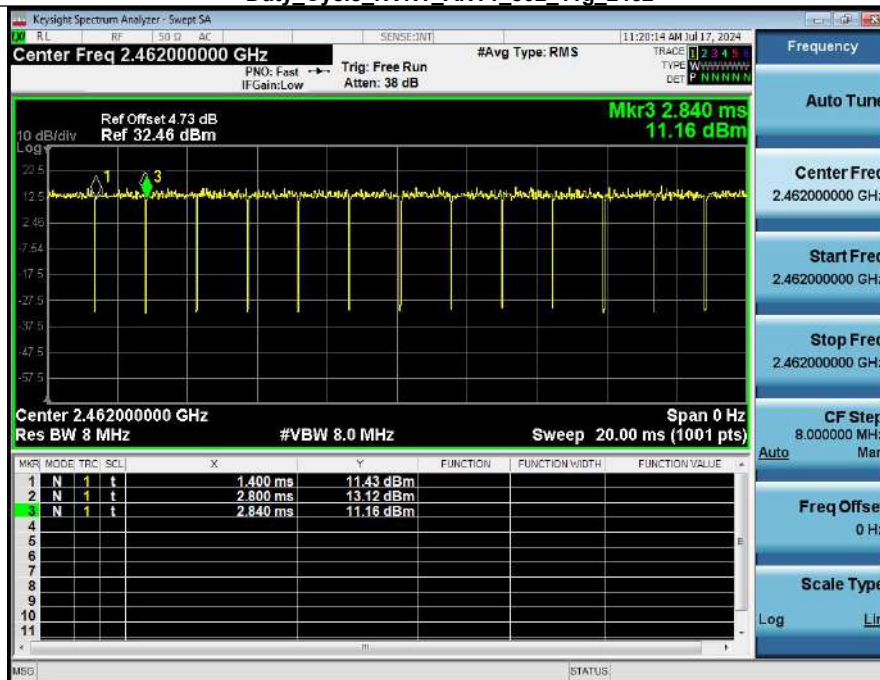
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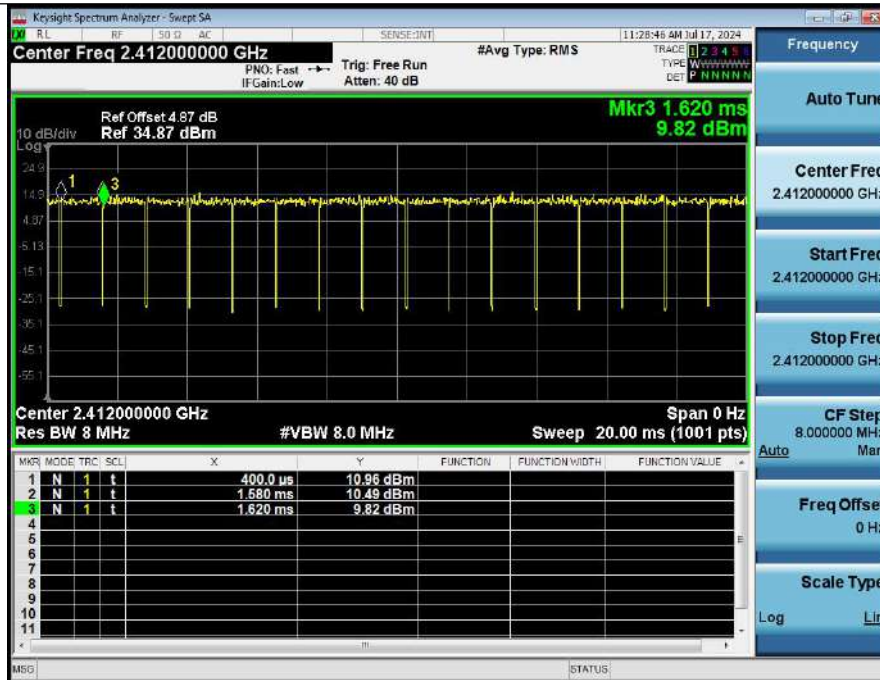
Duty Cycle NVNT_ANT1_802_11g_2437



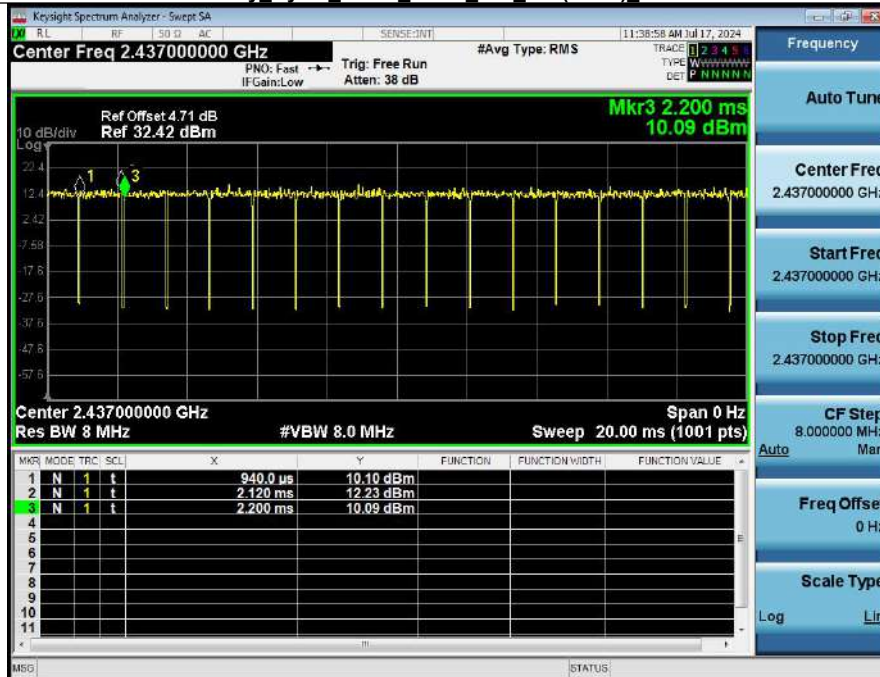
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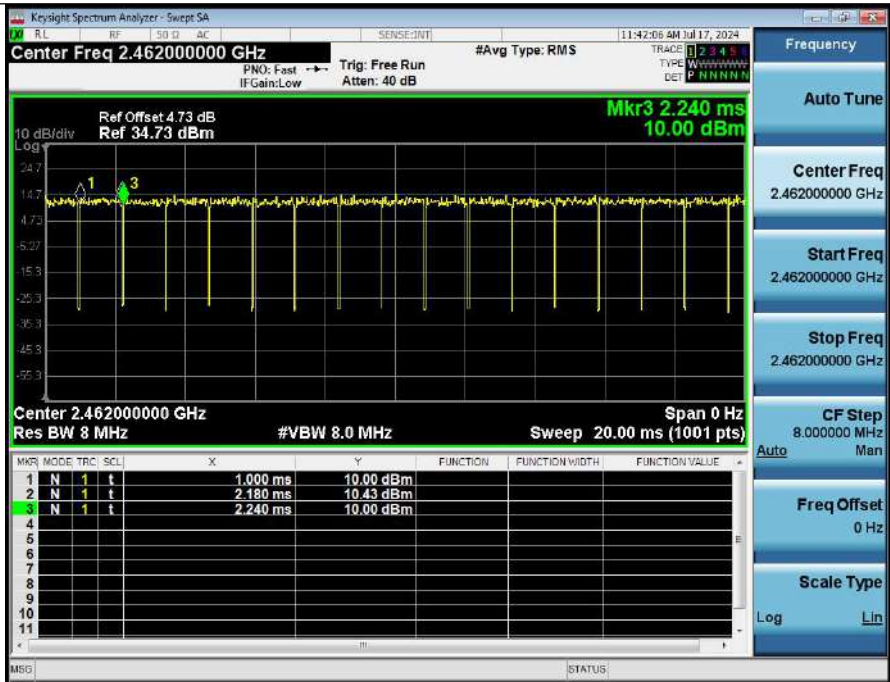
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



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	16.35	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	17.05	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.08	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	15.75	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	16.53	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	16.77	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	16.36	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	16.31	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	16.14	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.02	-10.00	-8.98	8	Pass
NVNT	ANT1	802.11b	2437.00	1.78	-10.00	-8.22	8	Pass
NVNT	ANT1	802.11b	2462.00	1.35	-10.00	-8.65	8	Pass
NVNT	ANT1	802.11g	2412.00	-7.30	-10.00	-17.30	8	Pass
NVNT	ANT1	802.11g	2437.00	-6.63	-10.00	-16.63	8	Pass
NVNT	ANT1	802.11g	2462.00	-6.66	-10.00	-16.66	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.53	-10.00	-17.53	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-8.15	-10.00	-18.15	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-7.73	-10.00	-17.73	8	Pass



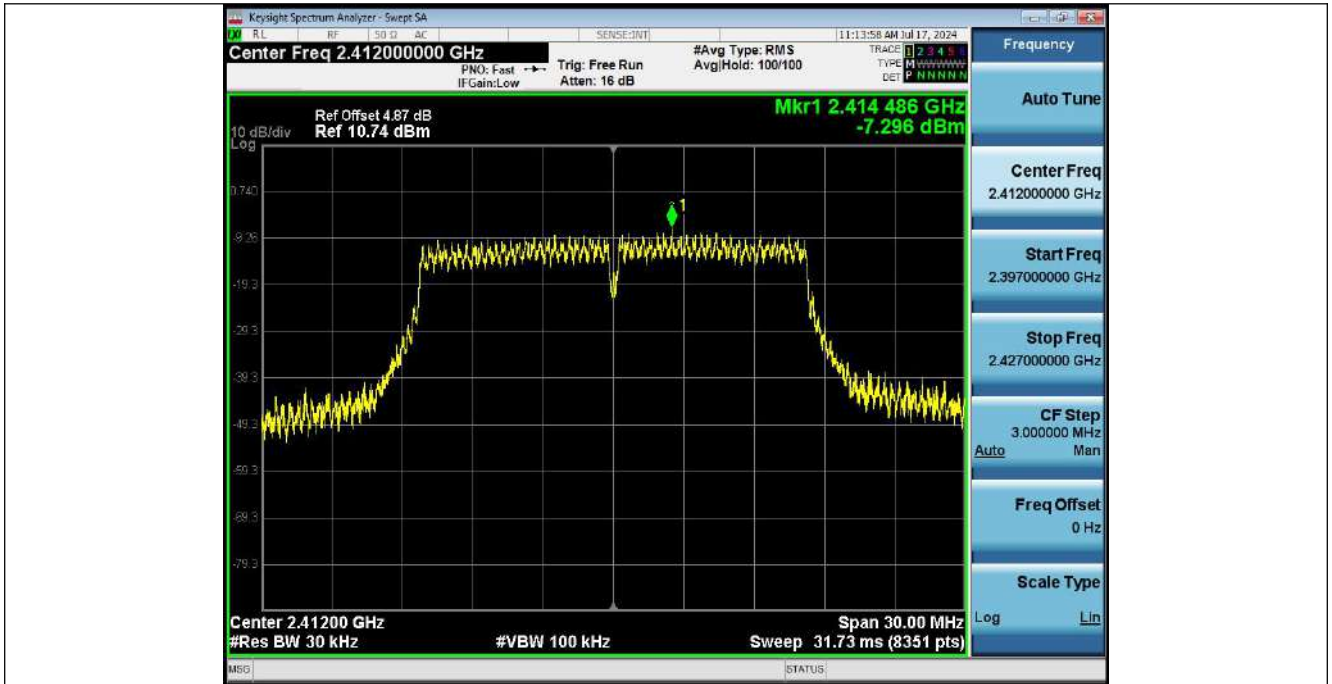
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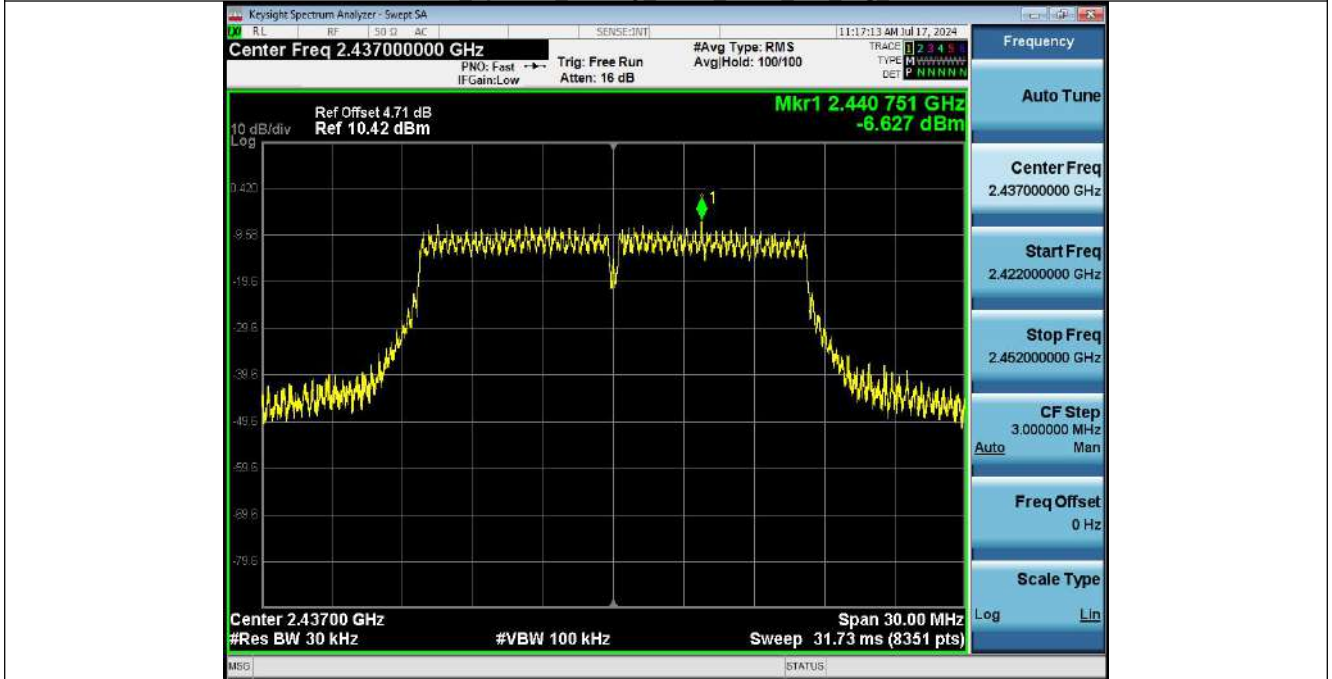
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



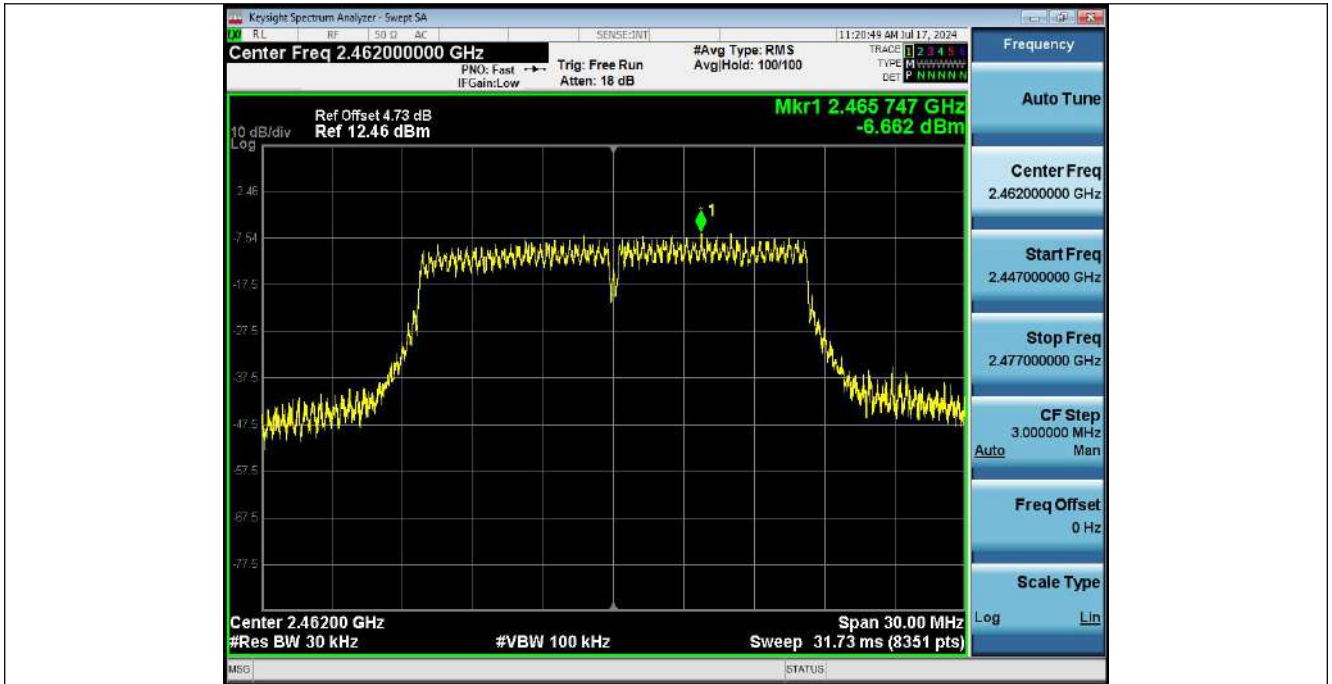
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



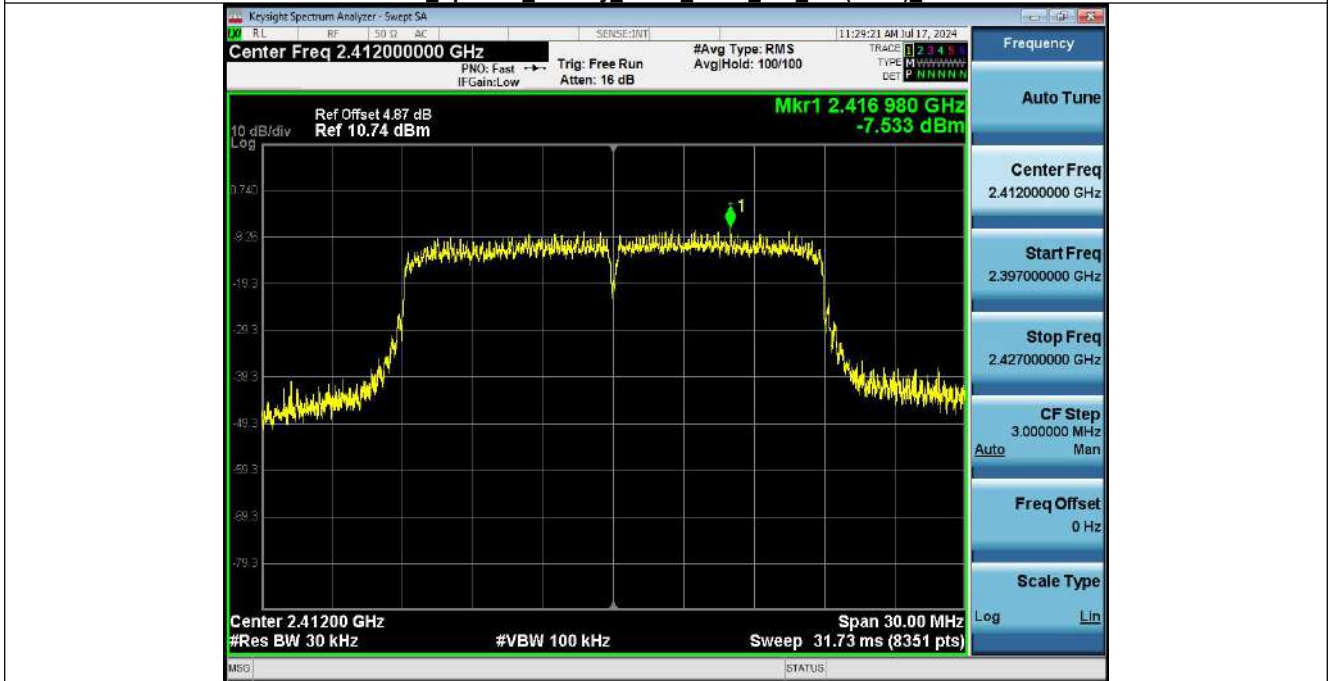
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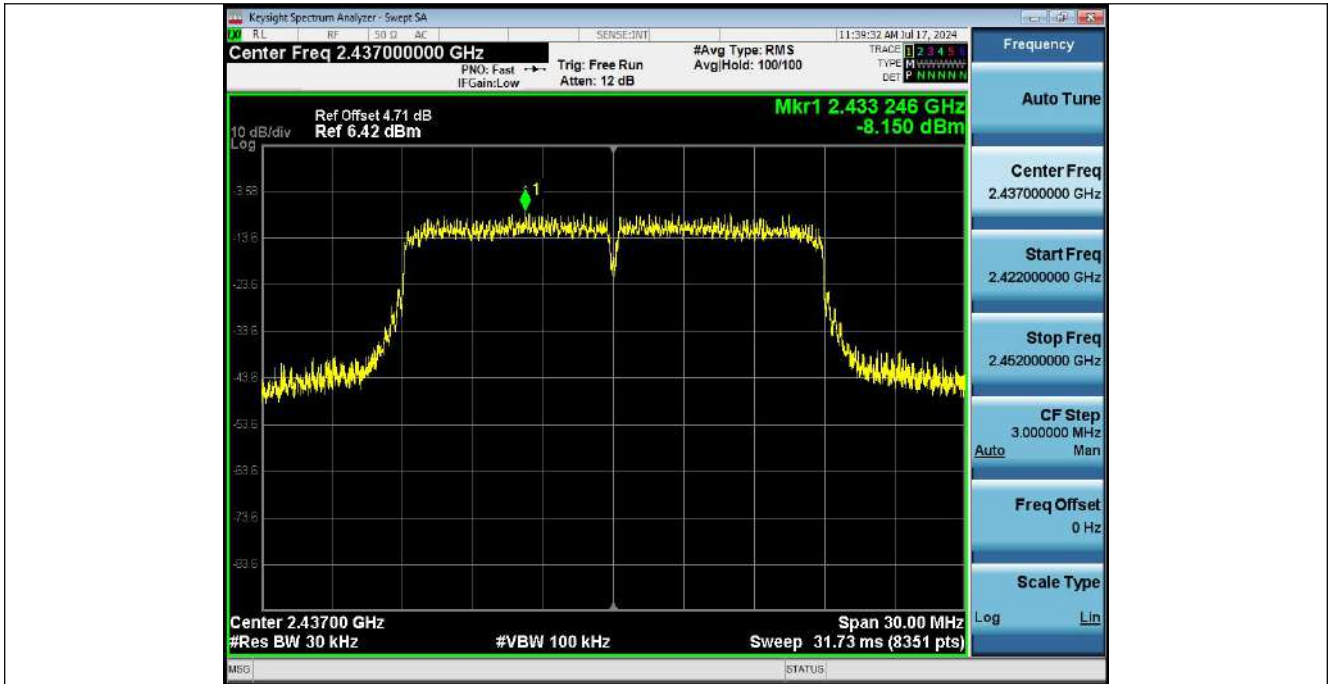
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



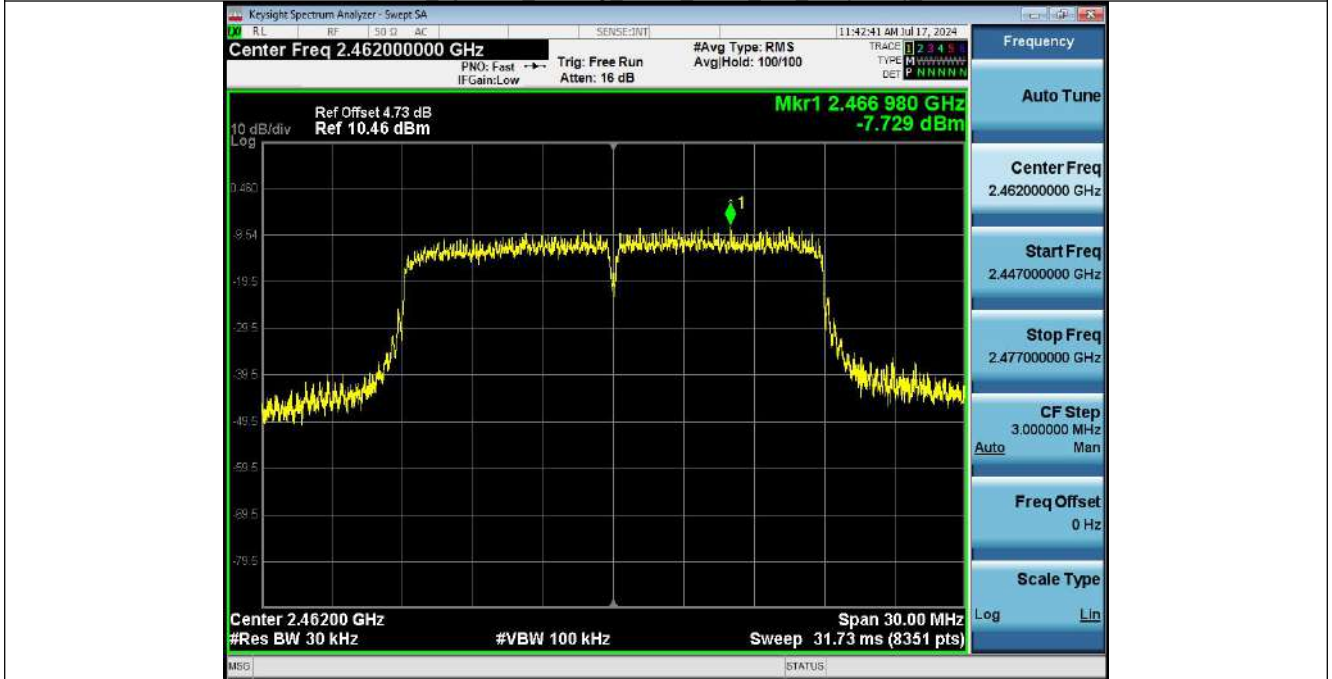
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



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_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-38.676	-15.019	Pass
NVNT	ANT1	802.11b	2462.00	2483.680	-57.508	-14.919	Pass
NVNT	ANT1	802.11g	2412.00	2398.928	-35.652	-22.982	Pass
NVNT	ANT1	802.11g	2462.00	2483.920	-44.211	-21.947	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-32.474	-23.017	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.872	-44.043	-23.199	Pass

1 Reference Level NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



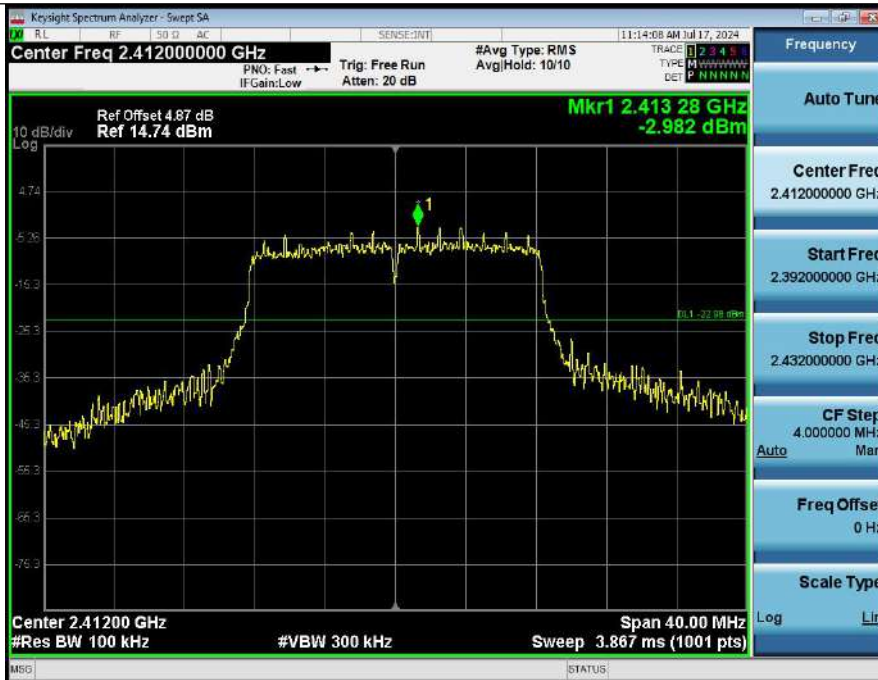
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2_Bandedge_NVNT_ANT1_802_11b_2462



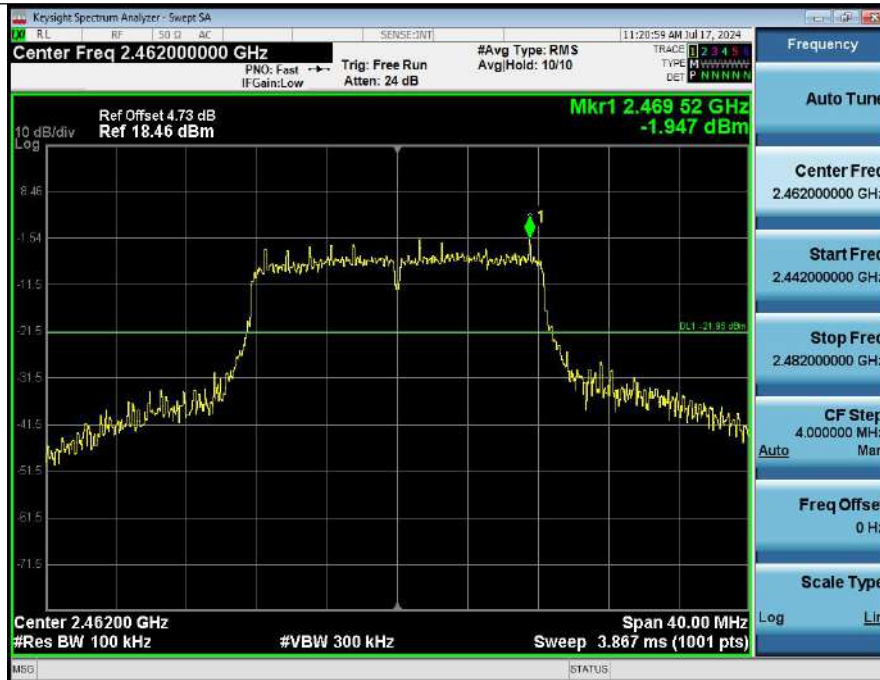
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2_Bandedge_NVNT_ANT1_802_11g_2412



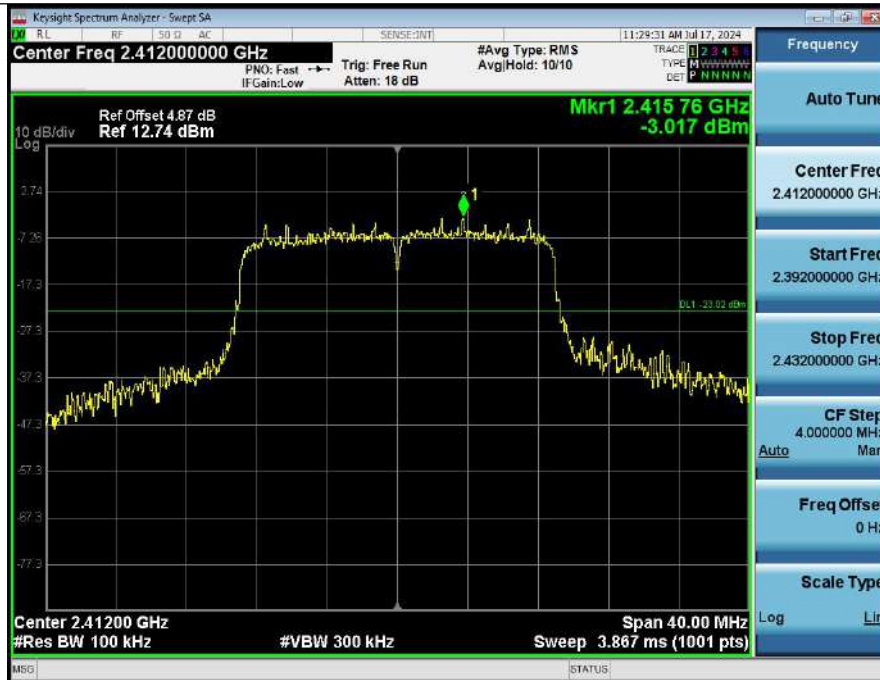
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2_Bandedge_NVNT_ANT1_802_11g_2462



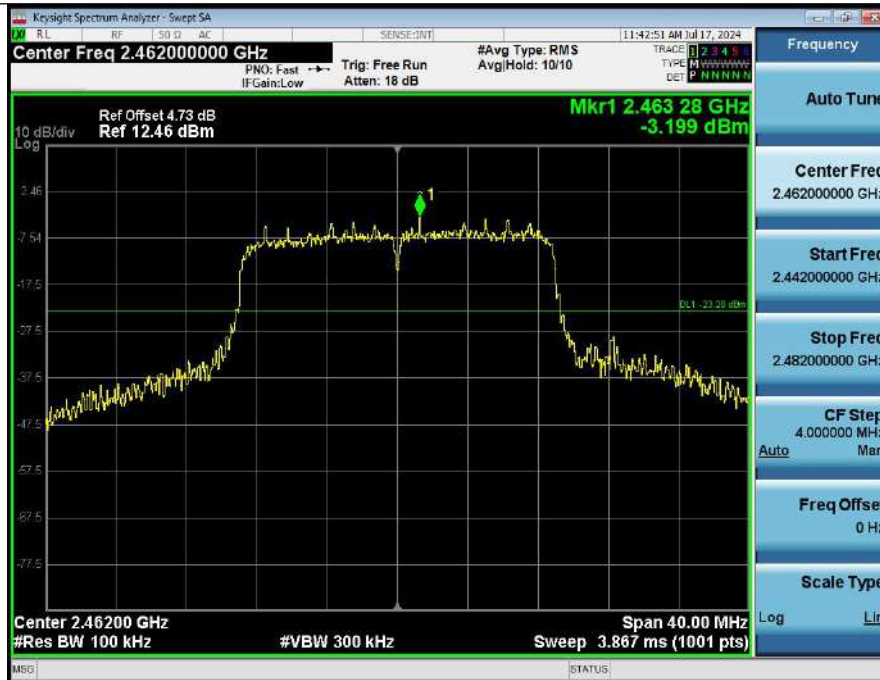
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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



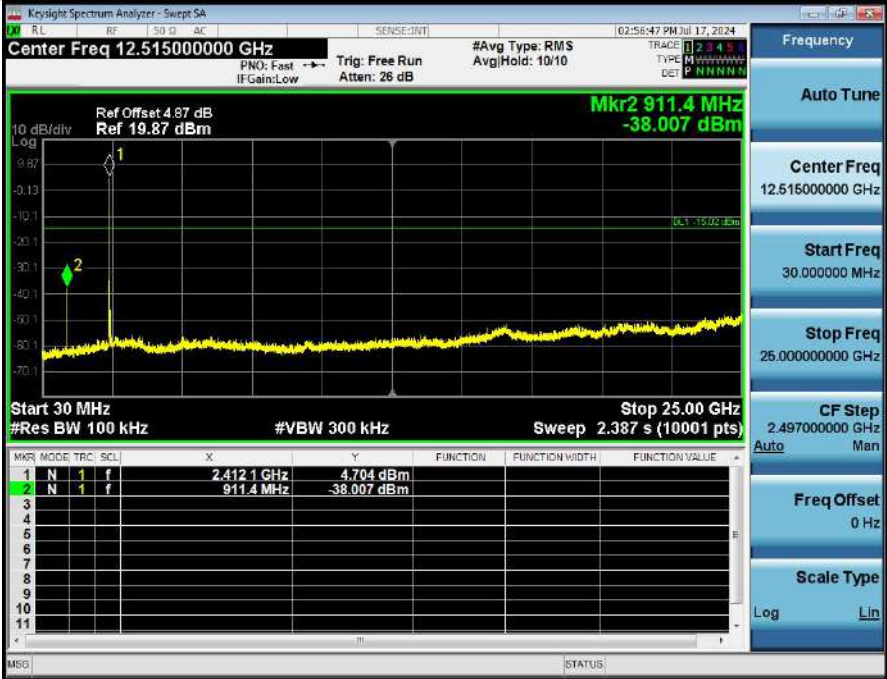
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	911.441	-38.007	-15.019	Pass
NVNT	ANT1	802.11b	2437.00	911.441	-39.431	-14.353	Pass
NVNT	ANT1	802.11b	2462.00	24780.264	-52.140	-14.919	Pass
NVNT	ANT1	802.11g	2412.00	24982.521	-57.615	-22.982	Pass
NVNT	ANT1	802.11g	2437.00	711.681	-45.415	-22.661	Pass
NVNT	ANT1	802.11g	2462.00	24952.557	-54.223	-21.947	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24902.617	-60.371	-23.017	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24882.641	-55.009	-23.568	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24955.054	-59.173	-23.199	Pass

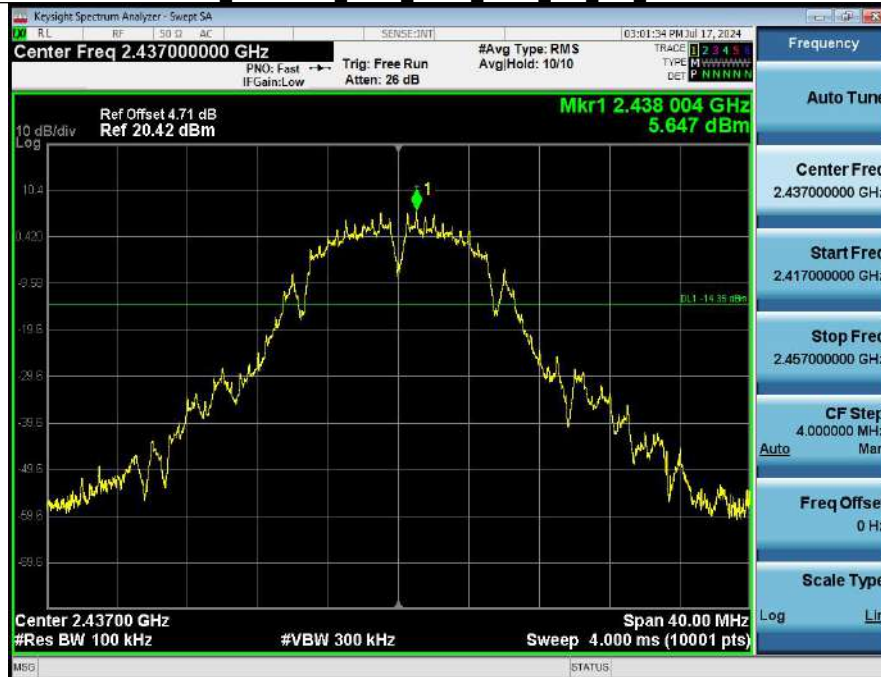
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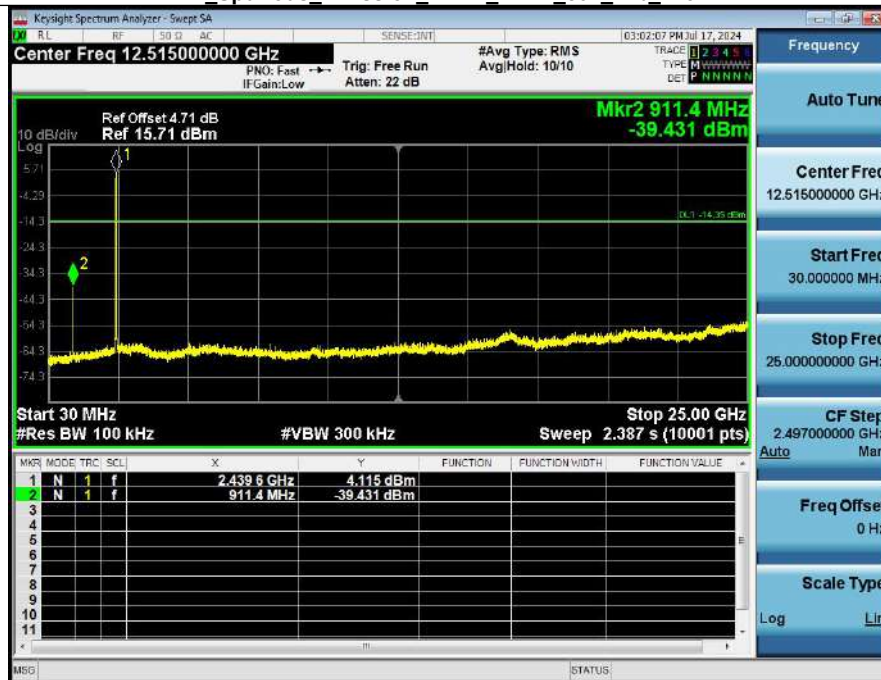
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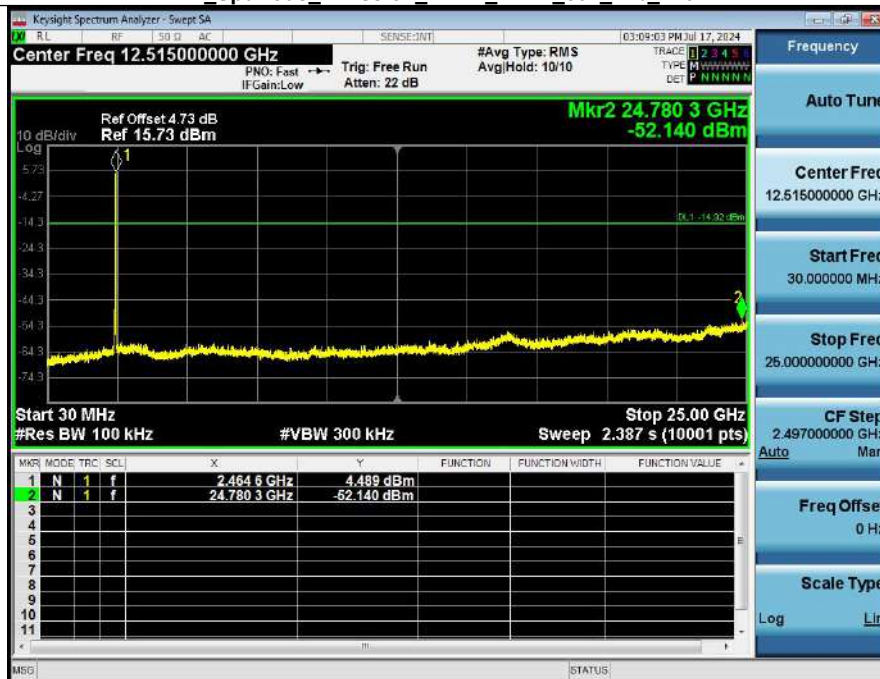
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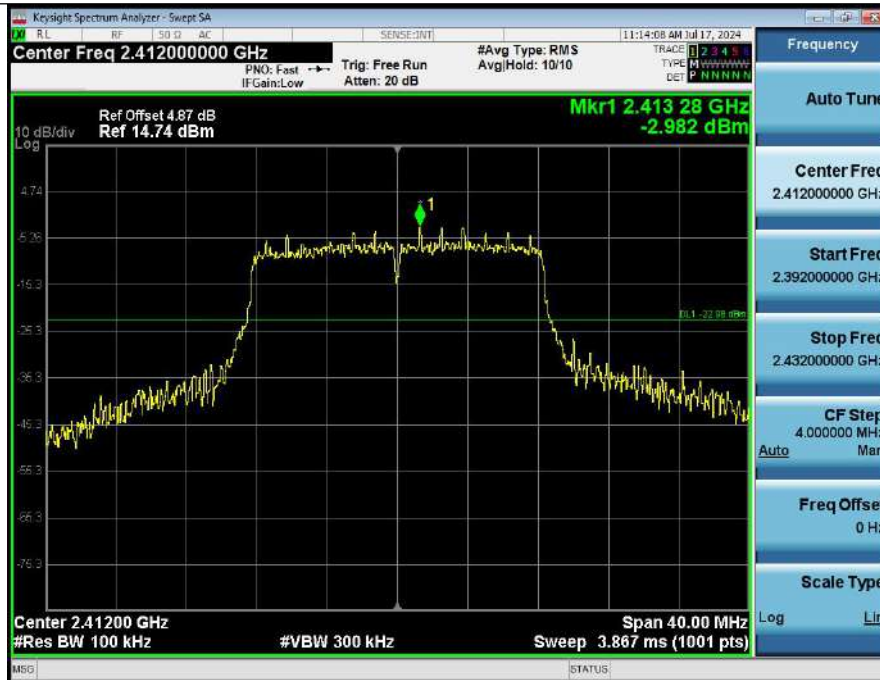
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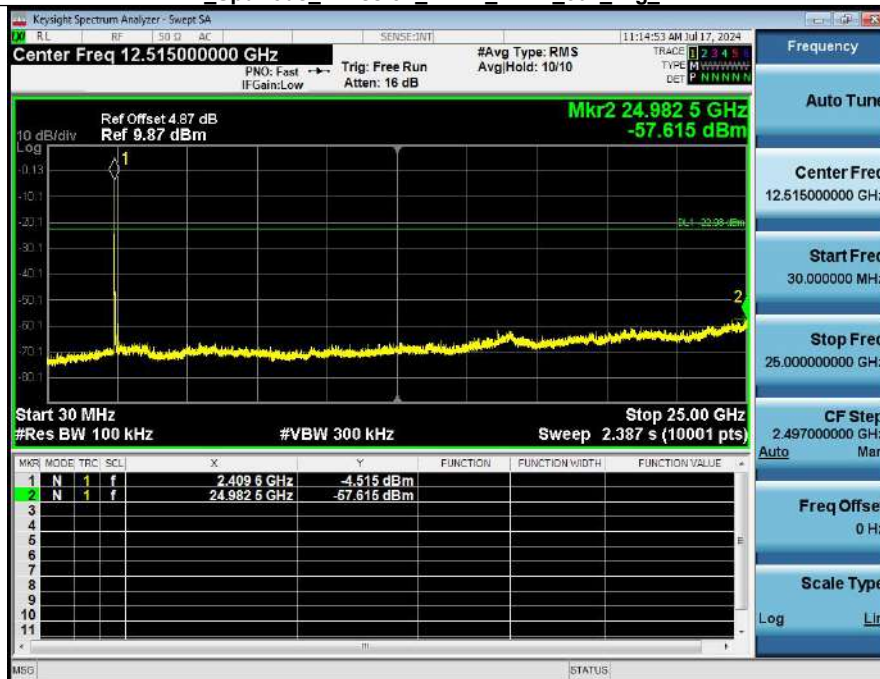
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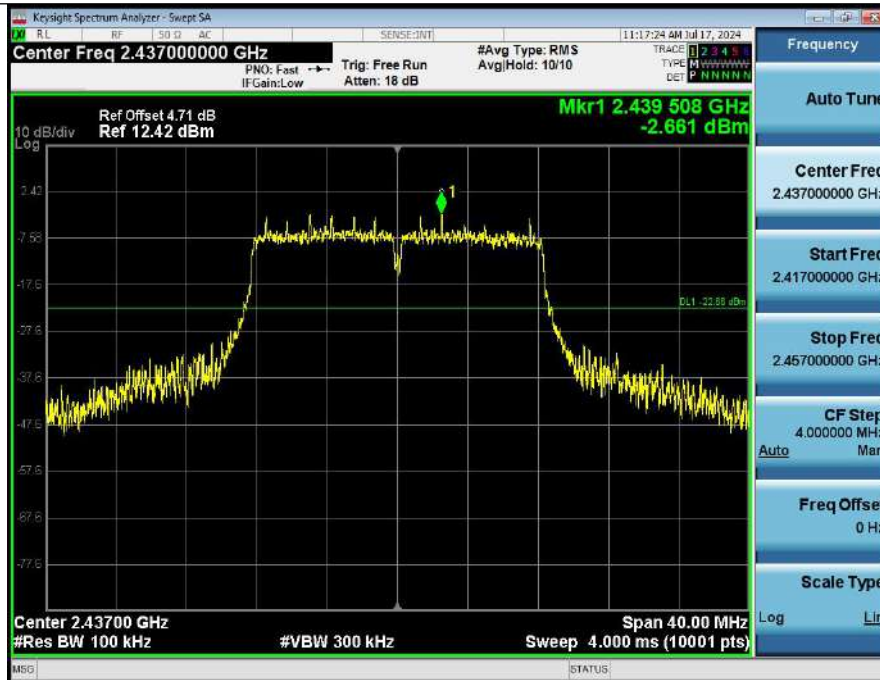
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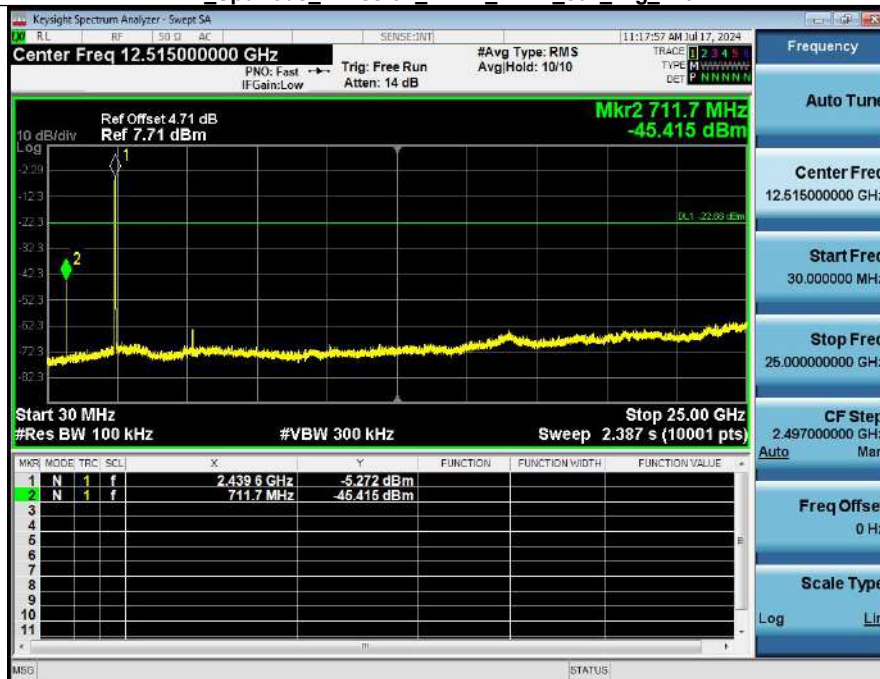
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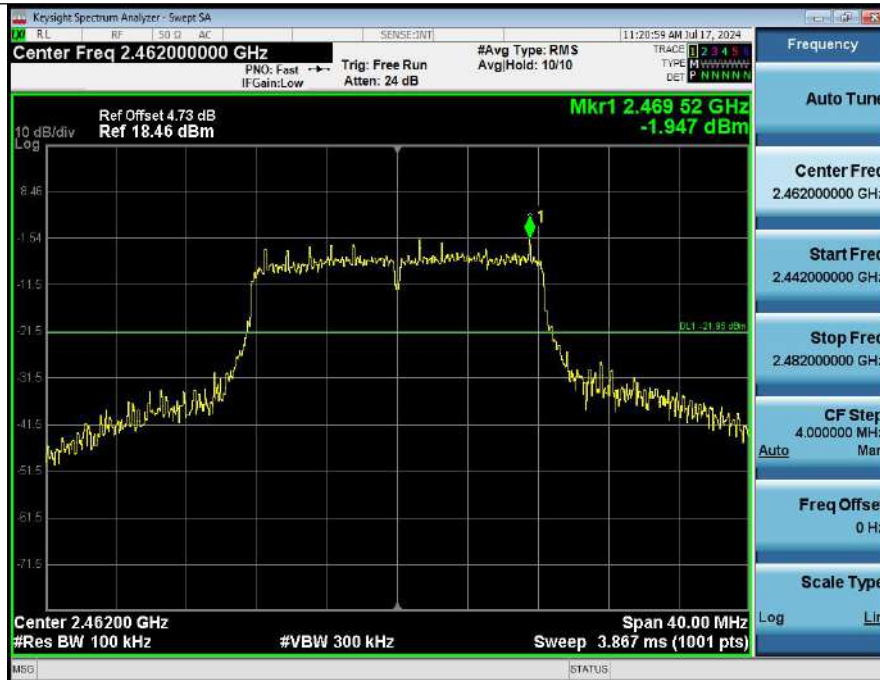
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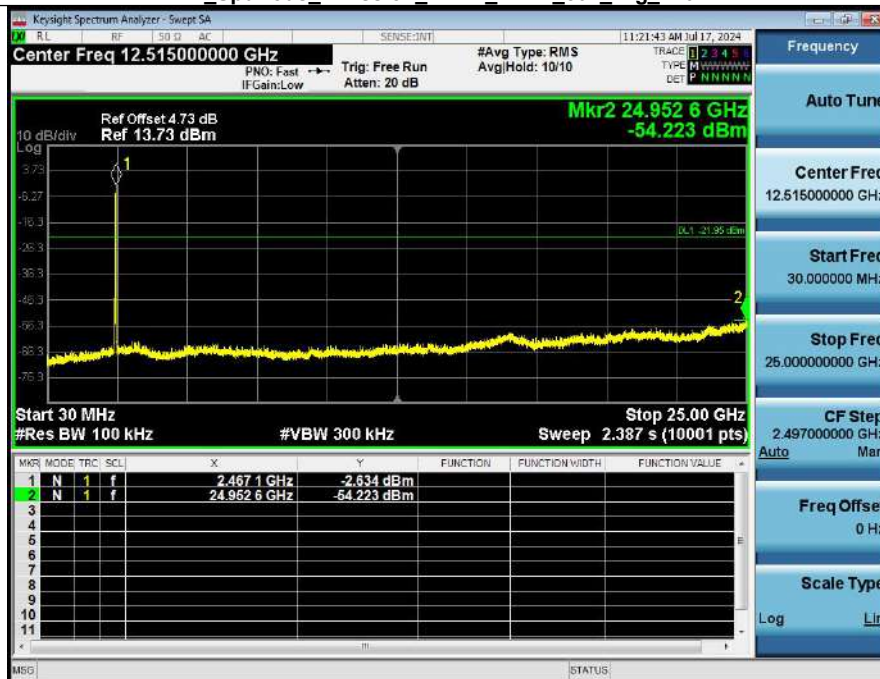
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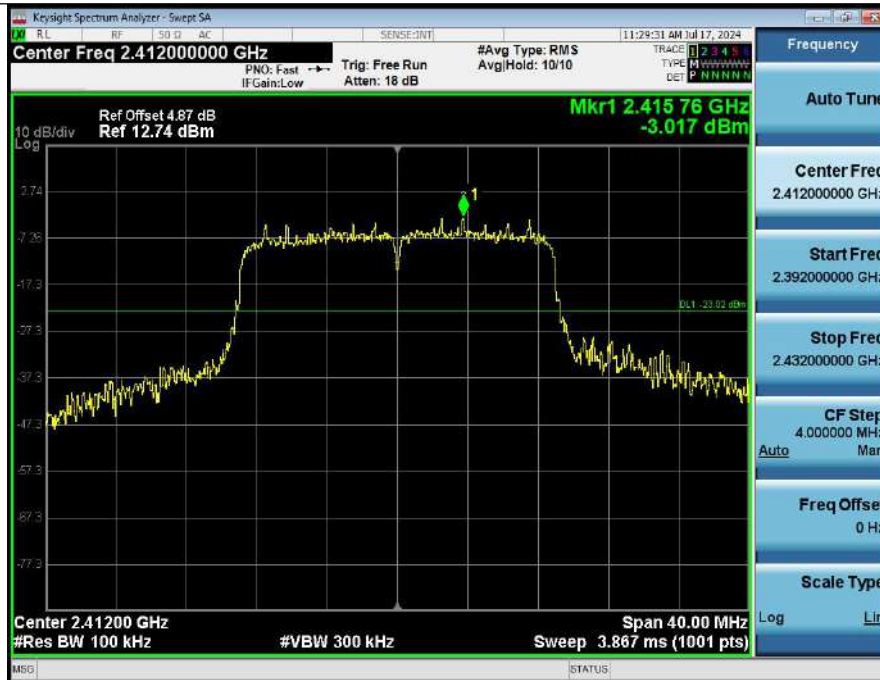
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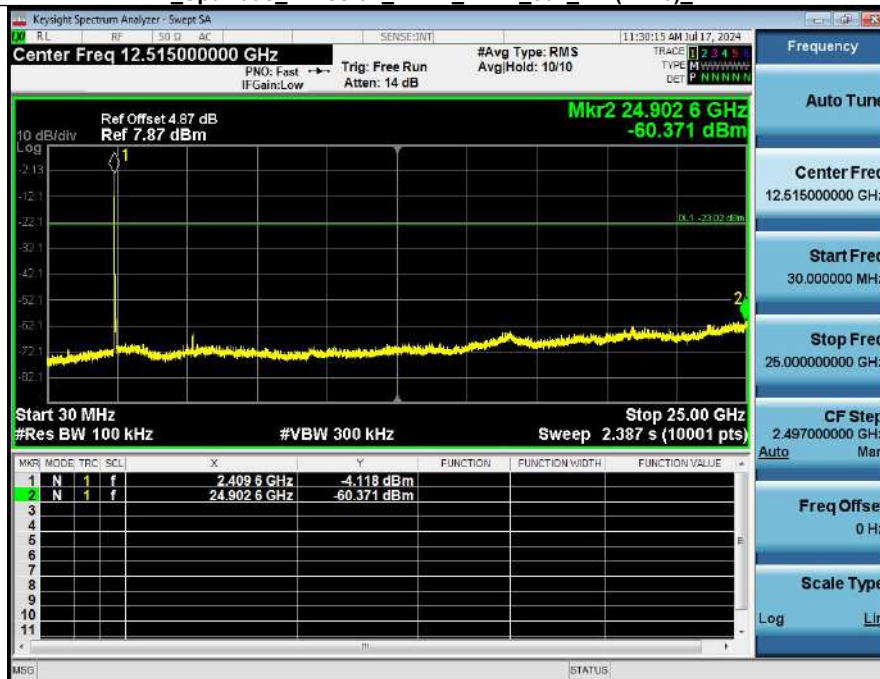
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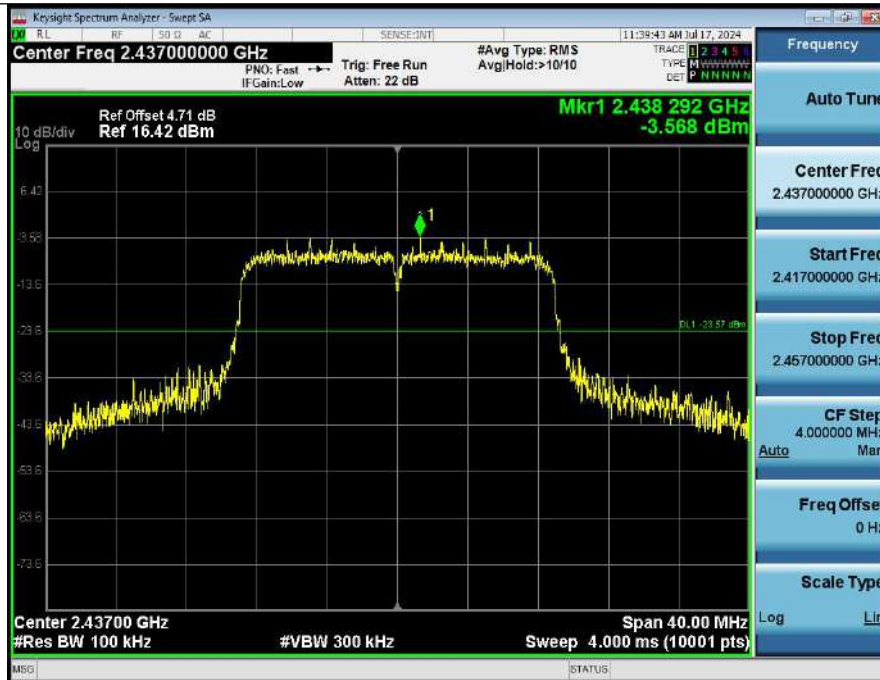
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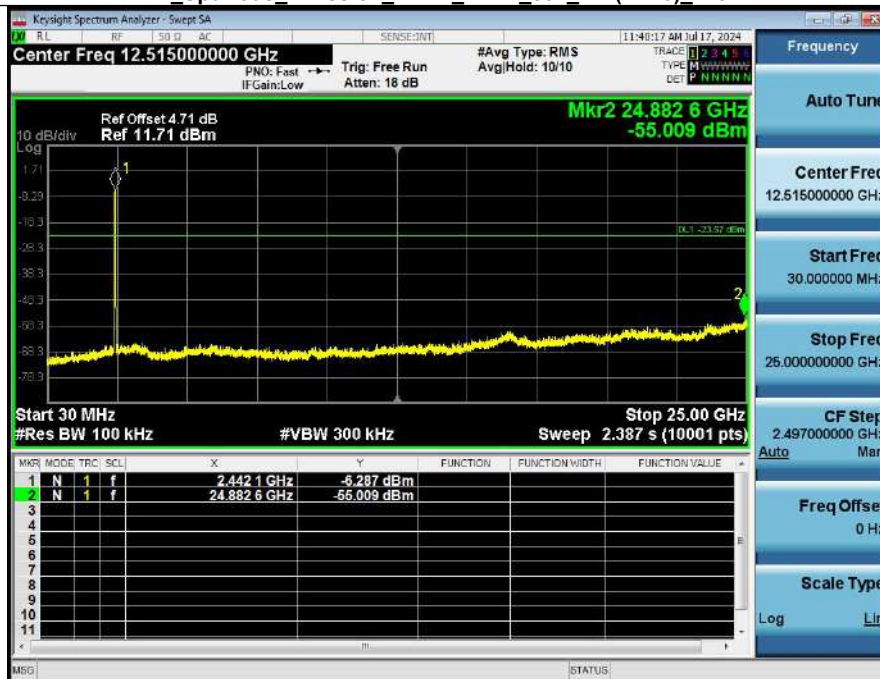
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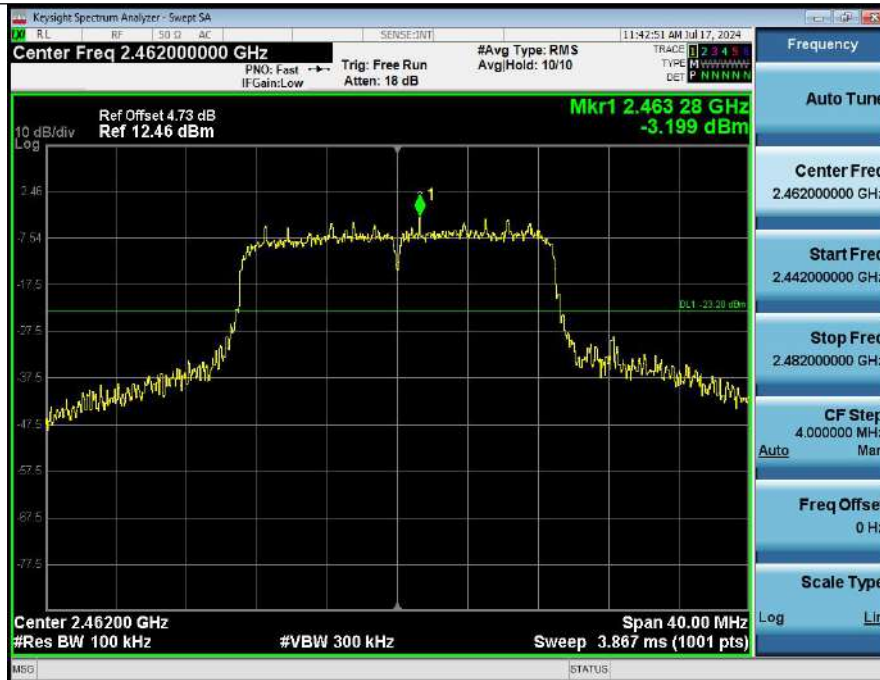
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

