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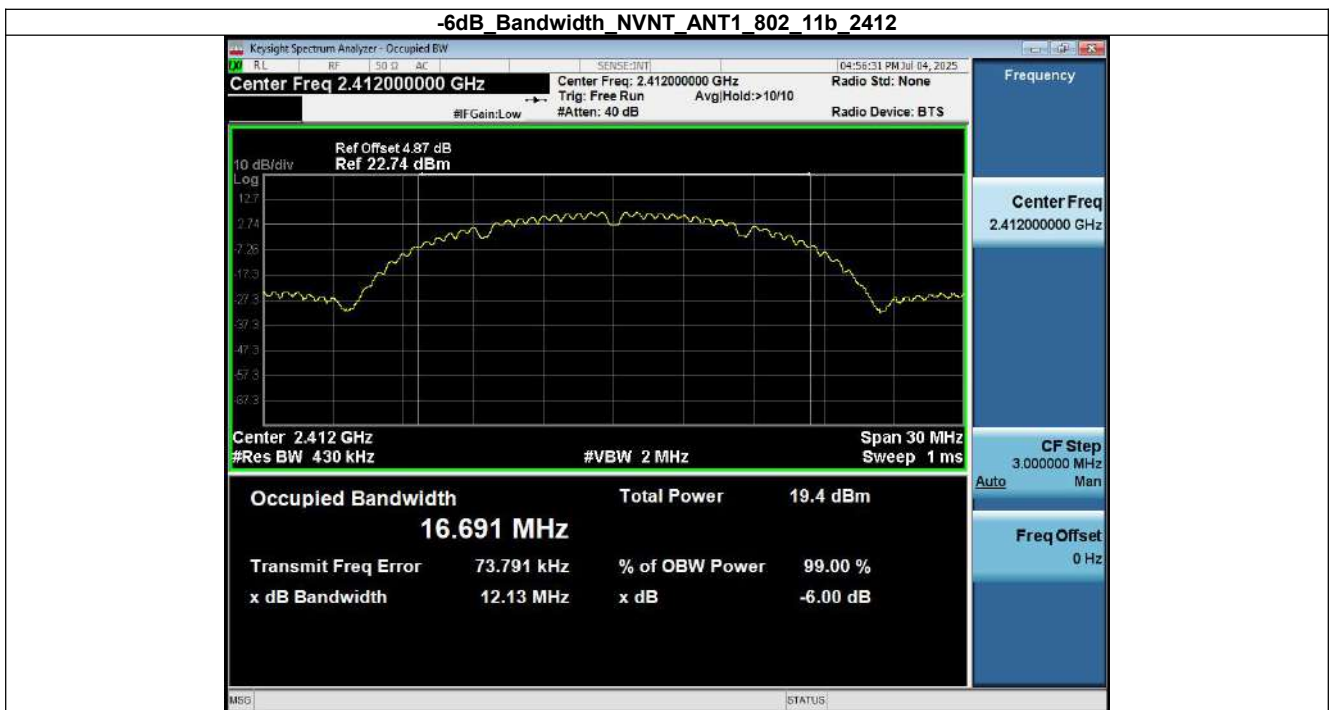
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FCC ID:2BC96NI-9010

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	12.13	500	Pass
NVNT	ANT1	802.11b	2437.00	12.14	500	Pass
NVNT	ANT1	802.11b	2462.00	11.29	500	Pass
NVNT	ANT1	802.11g	2412.00	16.57	500	Pass
NVNT	ANT1	802.11g	2437.00	16.74	500	Pass
NVNT	ANT1	802.11g	2462.00	16.67	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.74	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.77	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.73	500	Pass



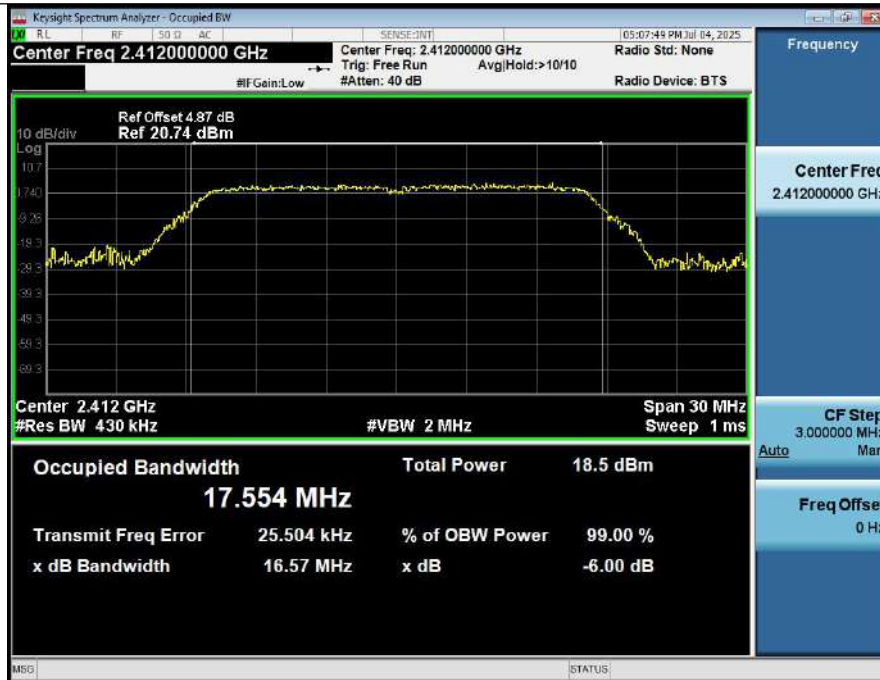
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-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



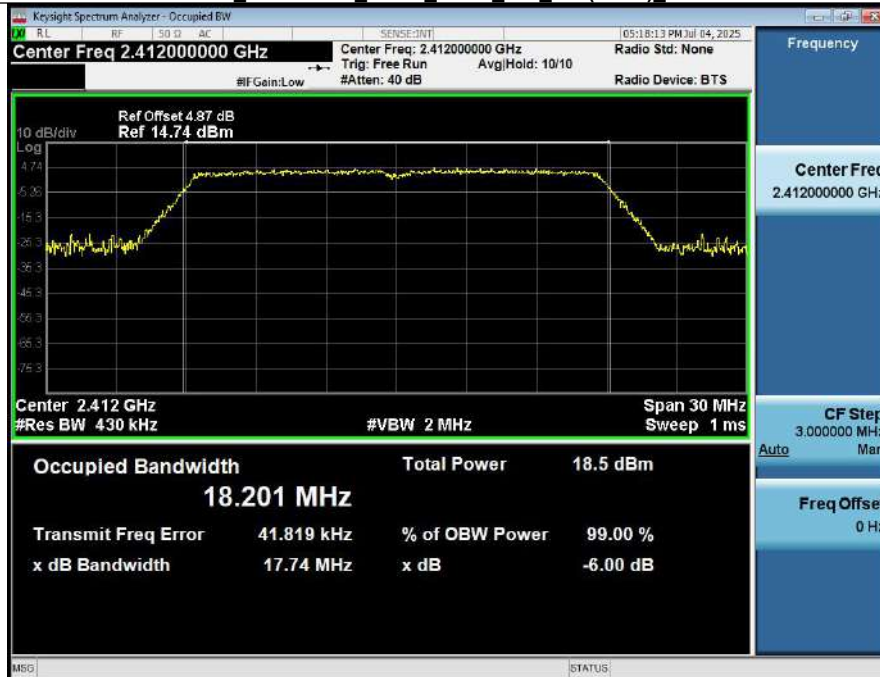
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-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

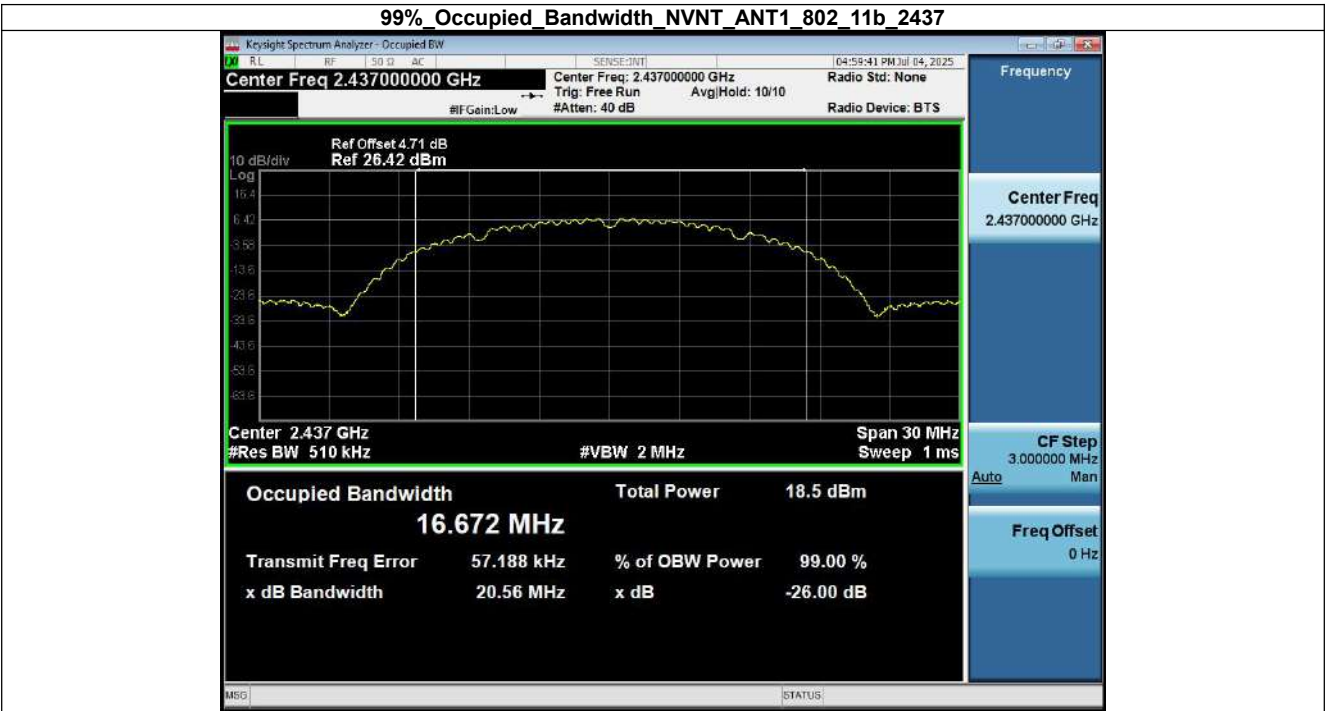
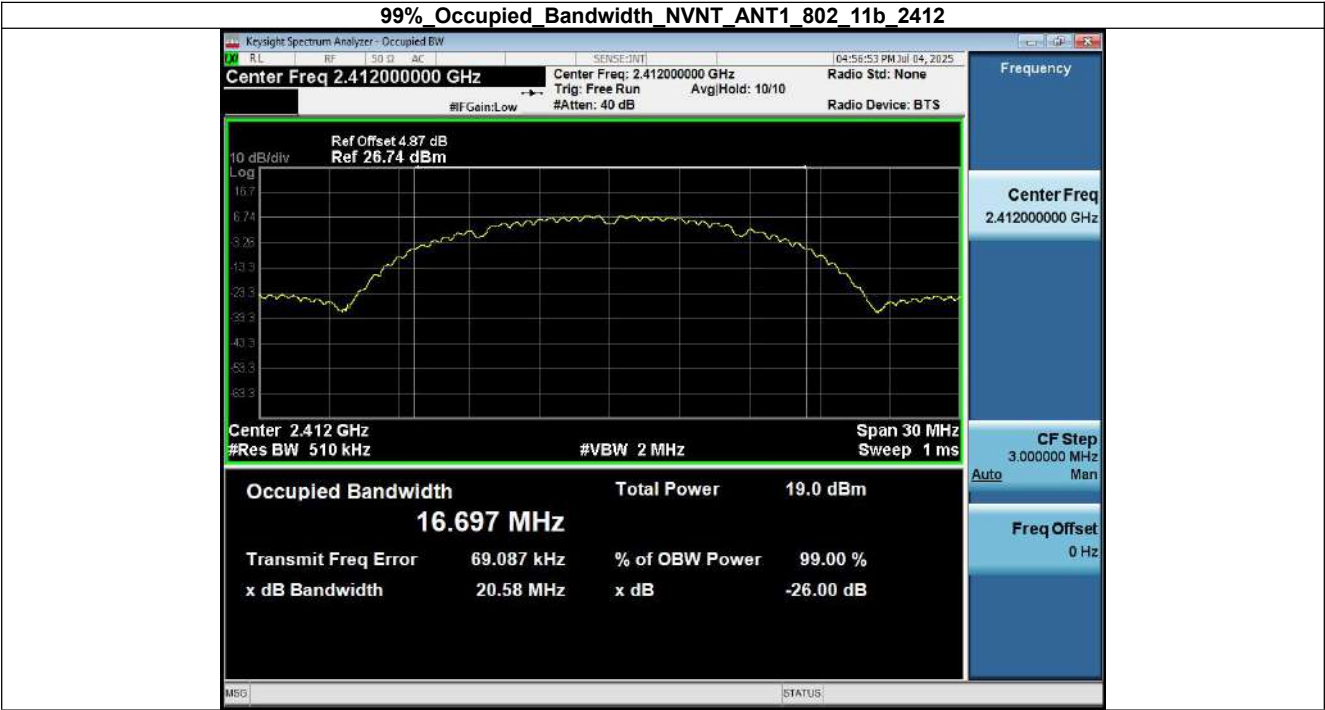


-6dB Bandwidth NVNT ANT1 802 11n(HT20) 2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	16.697
NVNT	ANT1	802.11b	2437.00	16.672
NVNT	ANT1	802.11b	2462.00	16.672
NVNT	ANT1	802.11g	2412.00	17.799
NVNT	ANT1	802.11g	2437.00	17.815
NVNT	ANT1	802.11g	2462.00	17.809
NVNT	ANT1	802.11n(HT20)	2412.00	18.327
NVNT	ANT1	802.11n(HT20)	2437.00	18.400
NVNT	ANT1	802.11n(HT20)	2462.00	18.393



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

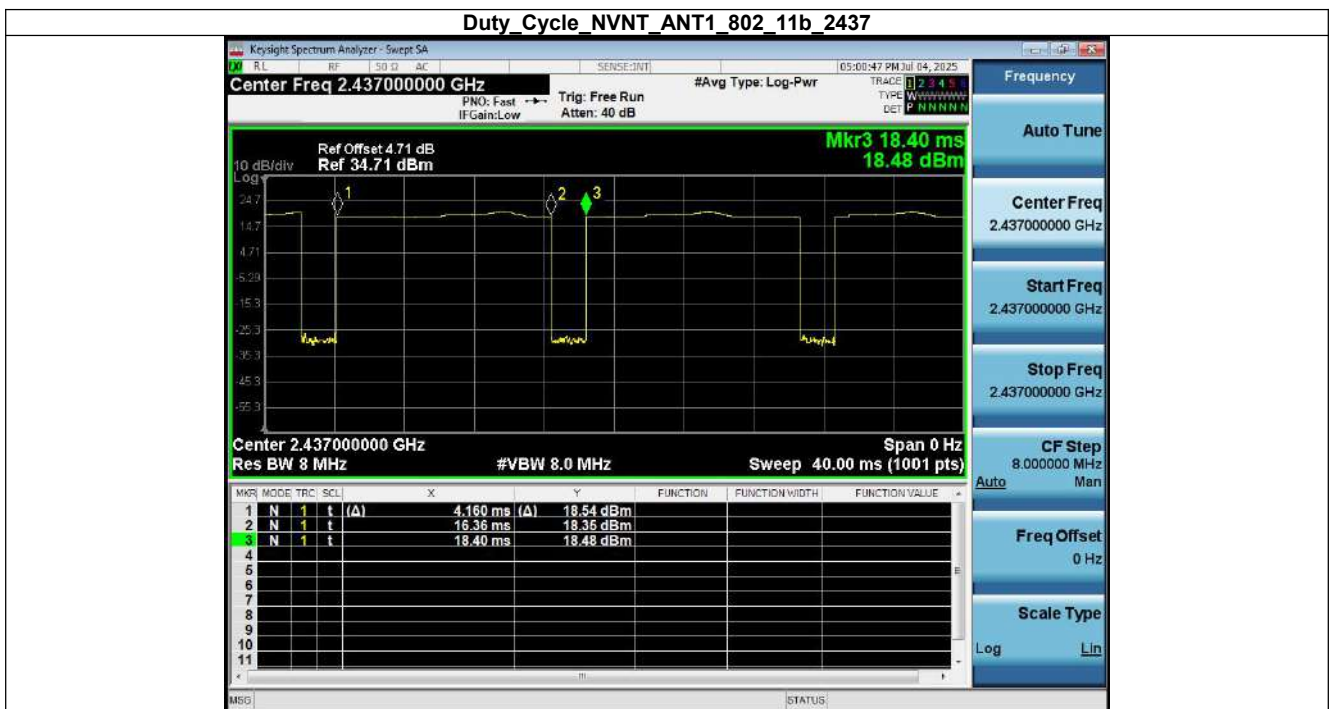
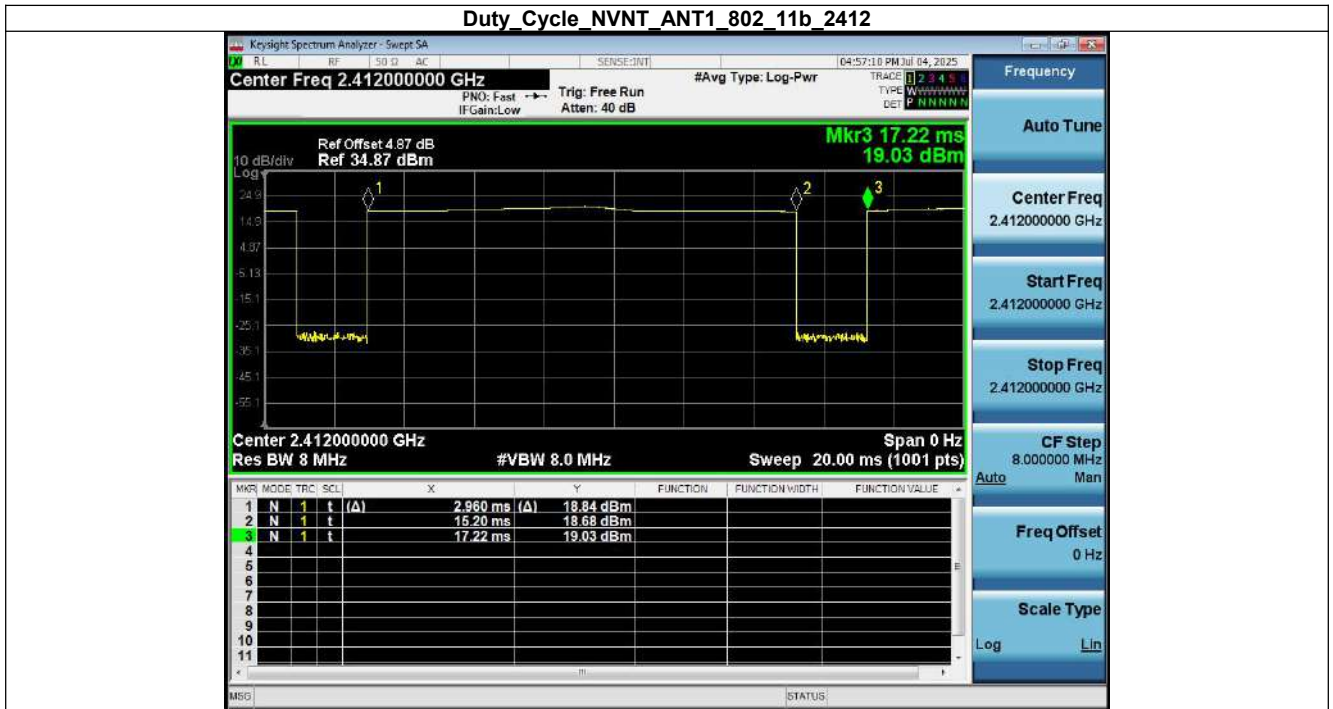


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

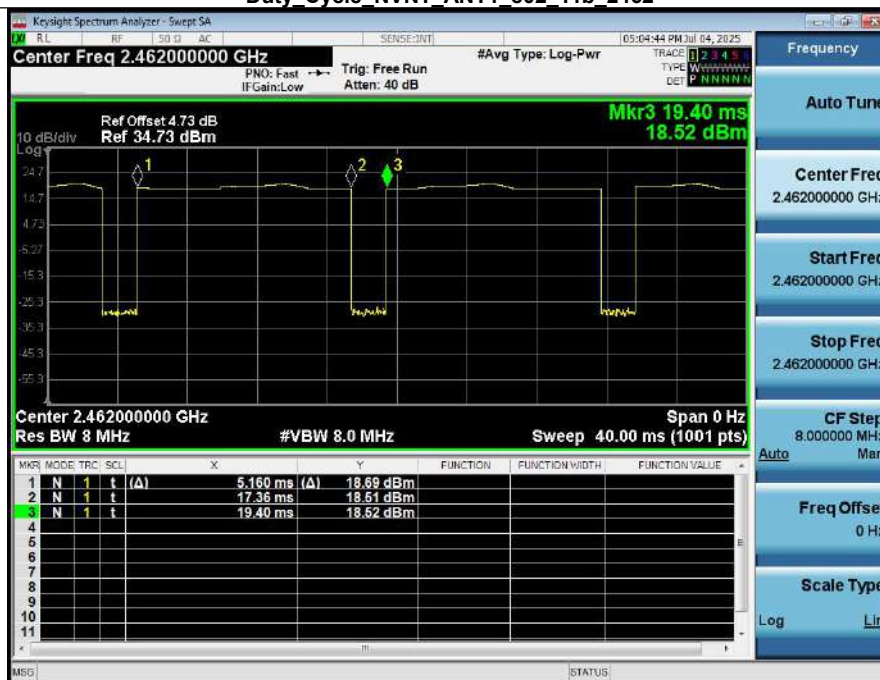


3. Duty Cycle

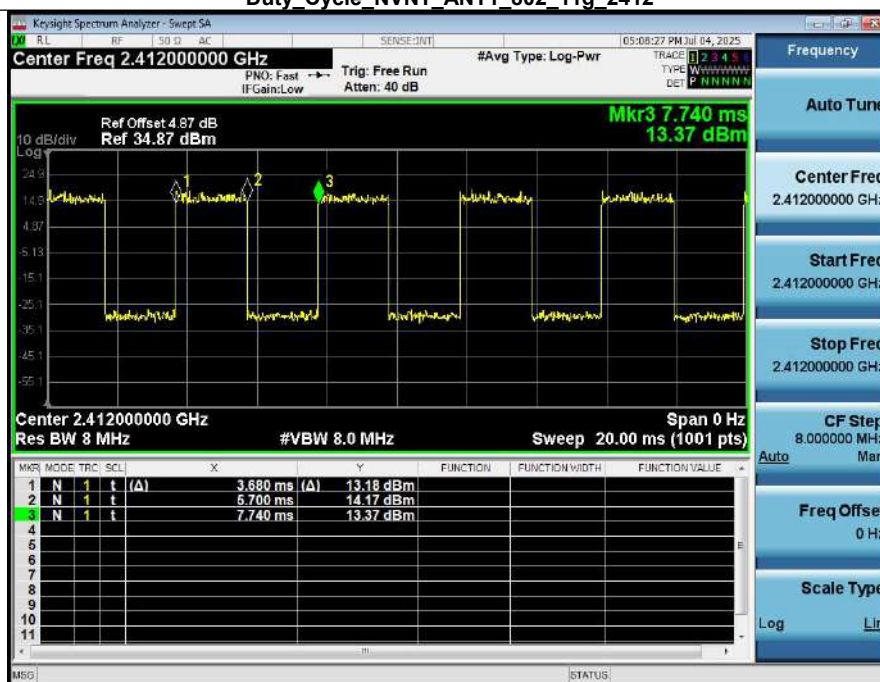
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	85.97	0.66
NVNT	ANT1	802.11b	2437.00	85.96	0.66
NVNT	ANT1	802.11b	2462.00	85.96	0.66
NVNT	ANT1	802.11g	2412.00	50.25	2.99
NVNT	ANT1	802.11g	2437.00	50.74	2.95
NVNT	ANT1	802.11g	2462.00	49.75	3.03
NVNT	ANT1	802.11n(HT20)	2412.00	48.72	3.12
NVNT	ANT1	802.11n(HT20)	2437.00	48.21	3.17
NVNT	ANT1	802.11n(HT20)	2462.00	48.21	3.17



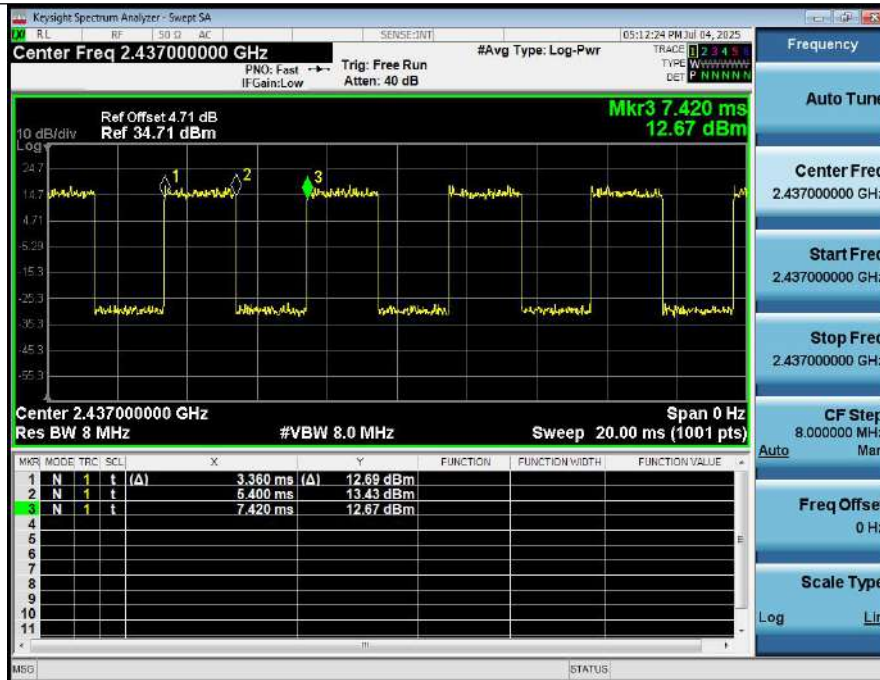
Duty Cycle NVNT_ANT1_802_11b_2462



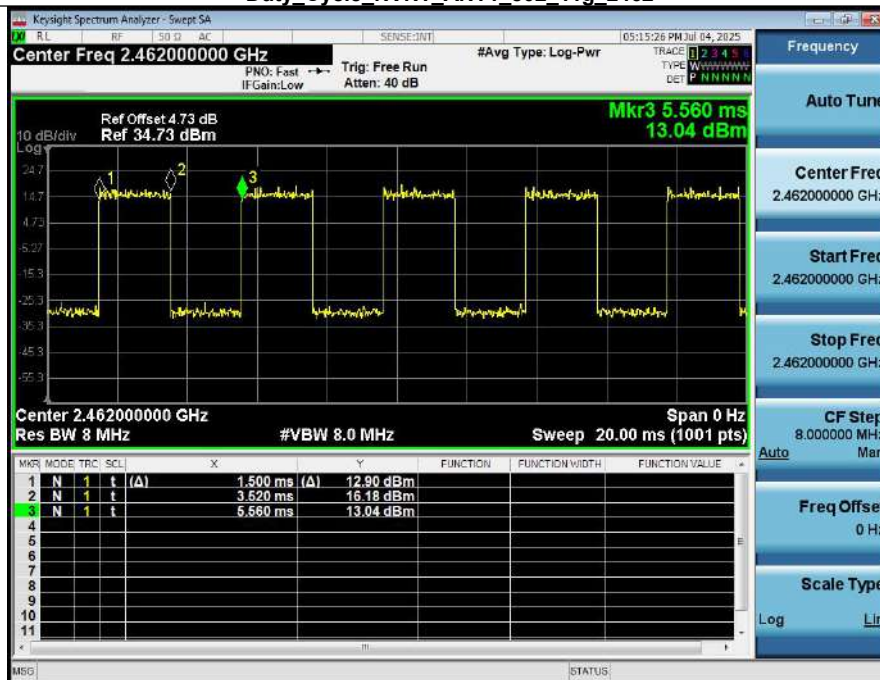
Duty Cycle NVNT_ANT1_802_11g_2412



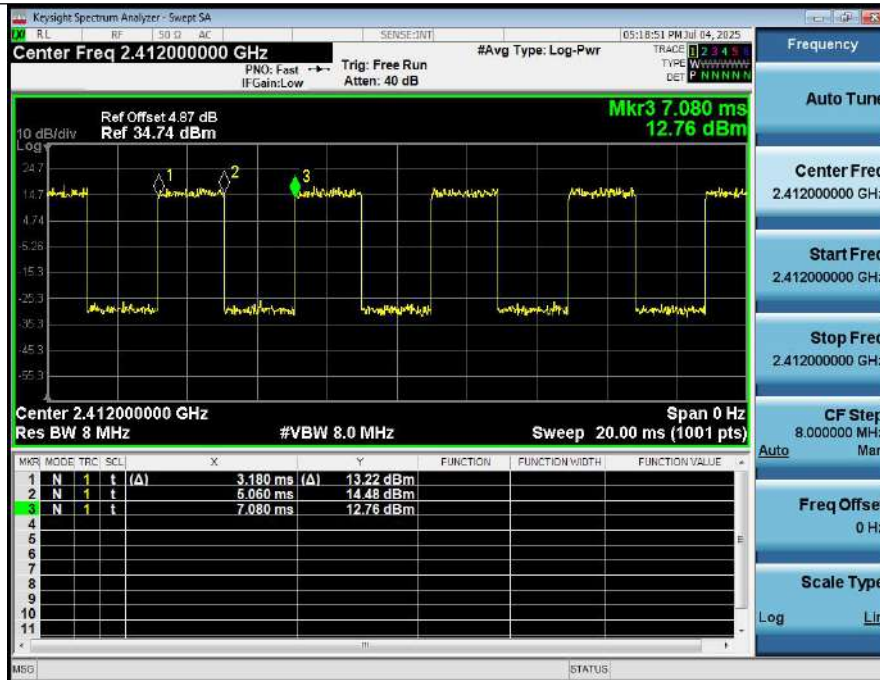
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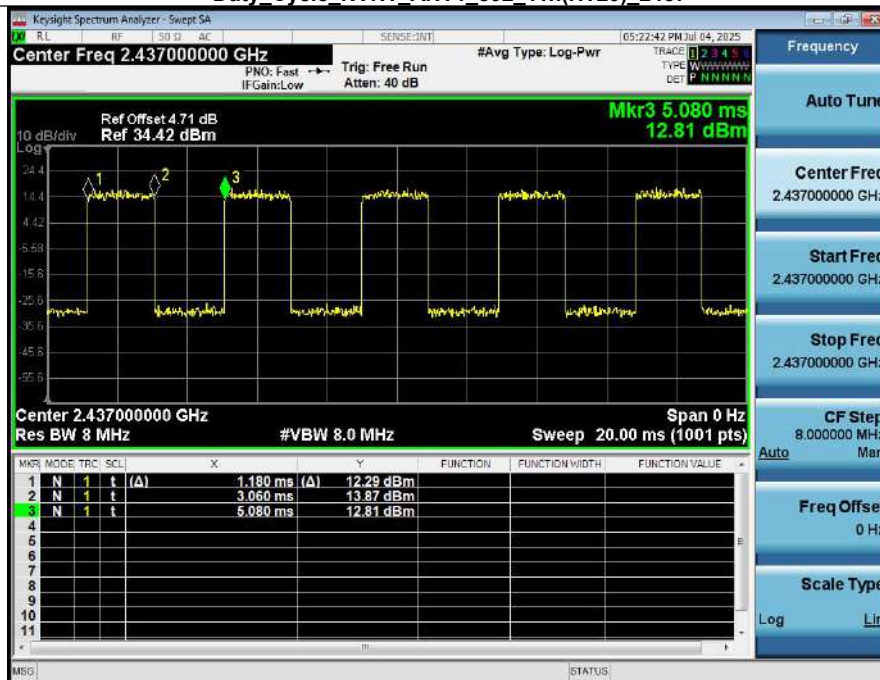
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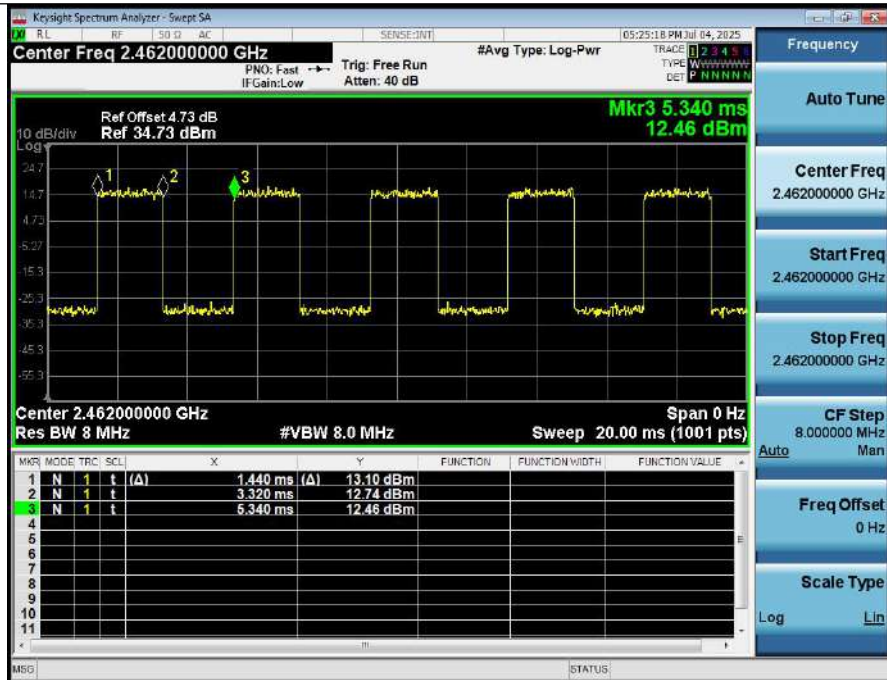
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



4. MAX. Output Power

Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Antenna Gain (dBm)	EIRP (dBm)	EIRP limit(dBm)	Result
802.11b	2412.00	Peak	18.90	30	1.18	20.08	36	Pass
802.11b	2437.00	Peak	18.43	30	1.18	19.61	36	Pass
802.11b	2462.00	Peak	18.57	30	1.18	19.75	36	Pass
802.11g	2412.00	Peak	18.05	30	1.18	19.23	36	Pass
802.11g	2437.00	Peak	17.60	30	1.18	18.78	36	Pass
802.11g	2462.00	Peak	17.89	30	1.18	19.07	36	Pass
802.11n(HT20)	2412.00	Peak	17.94	30	1.18	19.12	36	Pass
802.11n(HT20)	2437.00	Peak	17.65	30	1.18	18.83	36	Pass
802.11n(HT20)	2462.00	Peak	17.84	30	1.18	19.02	36	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	6.91	N/A	-10.00	-3.09	8	Pass
NVNT	ANT1	802.11b	2437.00	7.16	N/A	-10.00	-2.84	8	Pass
NVNT	ANT1	802.11b	2462.00	5.66	N/A	-10.00	-4.34	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.92	N/A	-10.00	-14.92	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.01	N/A	-10.00	-15.01	8	Pass
NVNT	ANT1	802.11g	2462.00	-5.04	N/A	-10.00	-15.04	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.77	N/A	-10.00	-14.77	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.41	N/A	-10.00	-15.41	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-5.38	N/A	-10.00	-15.38	8	Pass



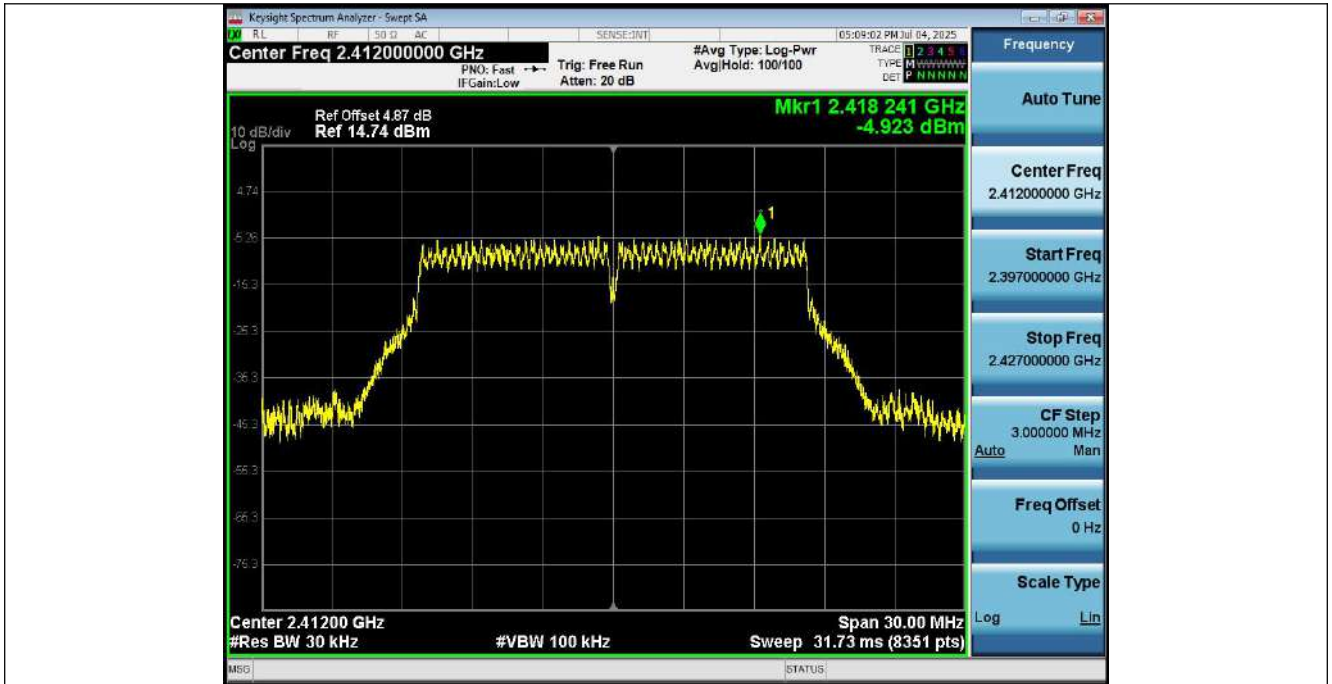
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



Power_Spectral_Density_NVNT_ANT1_802_11b_2462



Power_Spectral_Density_NVNT_ANT1_802_11g_2412



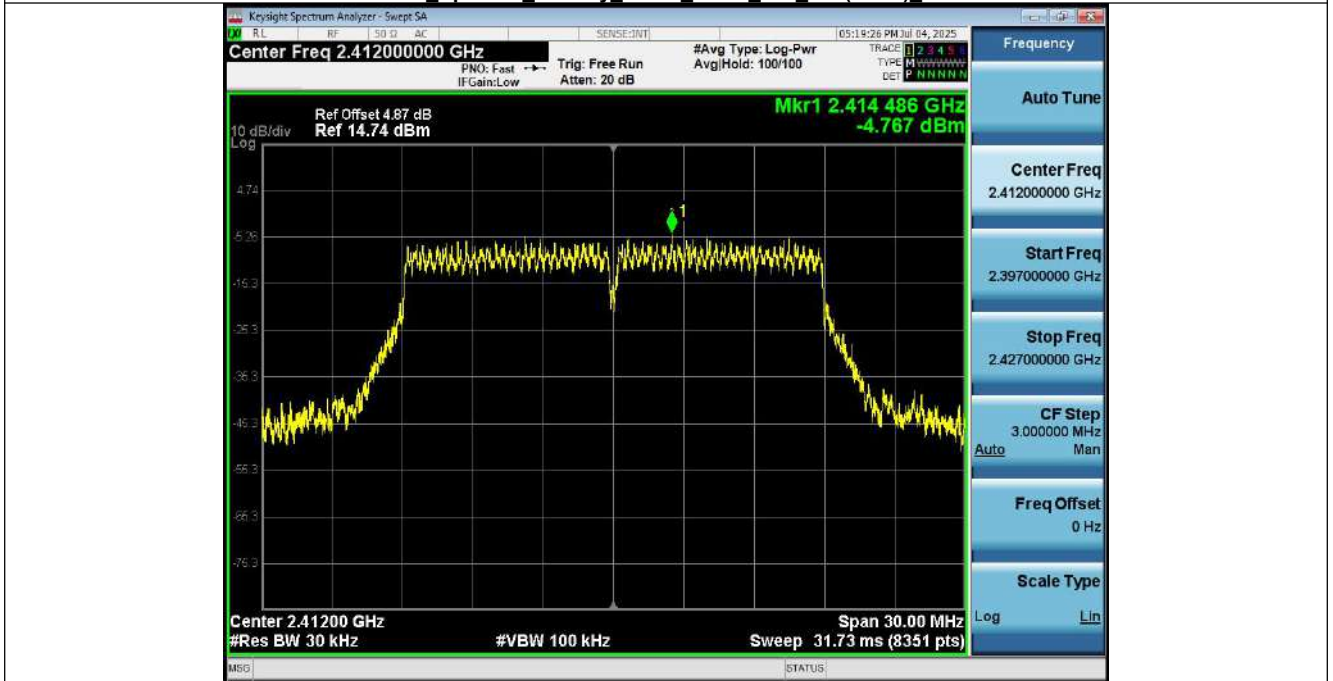
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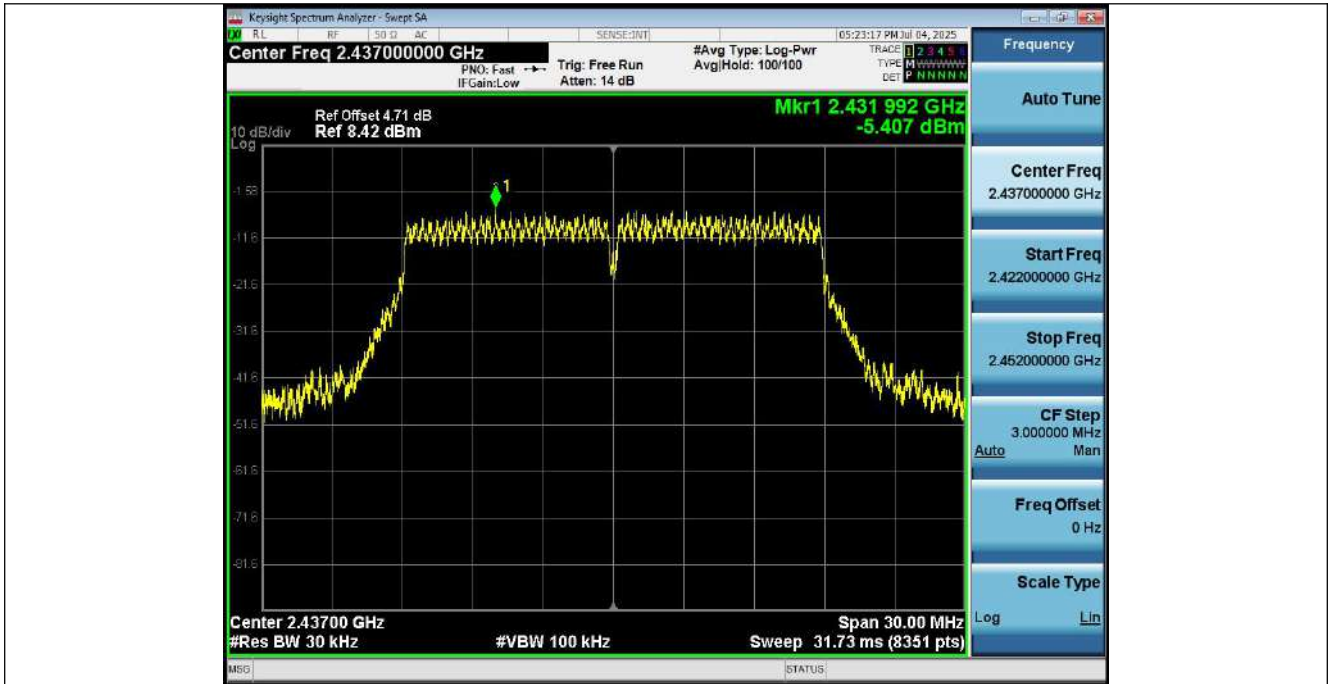
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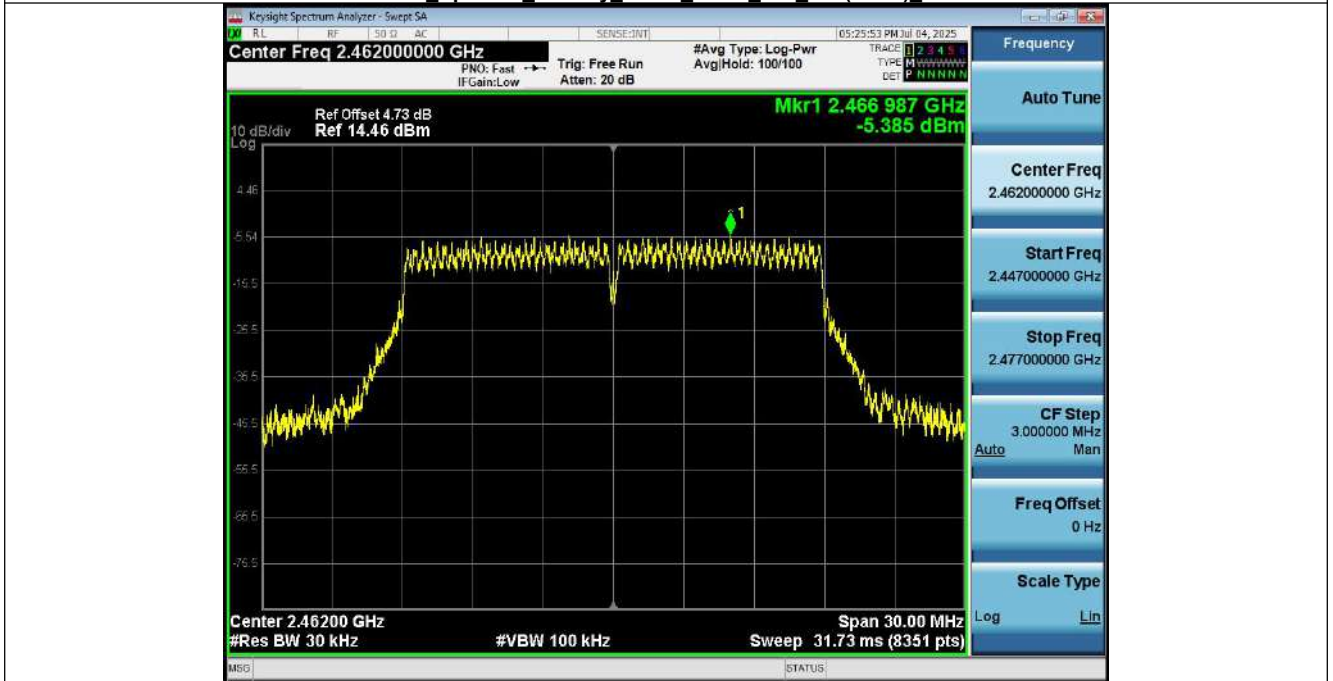
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



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	2396.464	6.523	-26.797	-13.477	Pass
NVNT	ANT1	802.11b	2462.00	2490.352	6.125	-45.444	-13.875	Pass
NVNT	ANT1	802.11g	2412.00	2399.264	0.099	-29.582	-19.901	Pass
NVNT	ANT1	802.11g	2462.00	2484.448	-0.225	-40.746	-20.225	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	0.352	-33.880	-19.648	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.680	-0.156	-41.757	-20.156	Pass

Note:the offset is the cabel loss



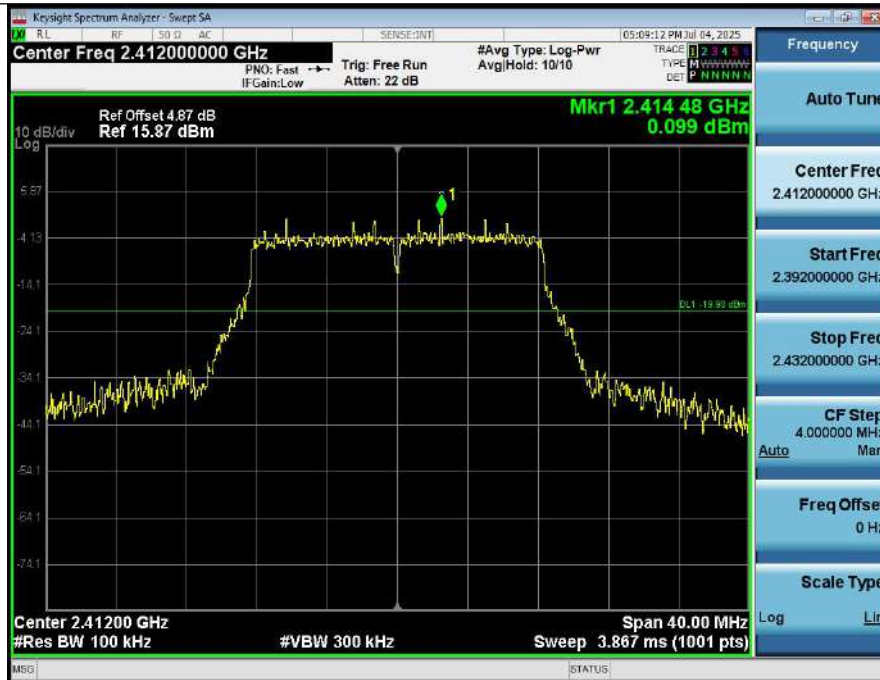
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2_Bandedge_NVNT_ANT1_802_11b_2462



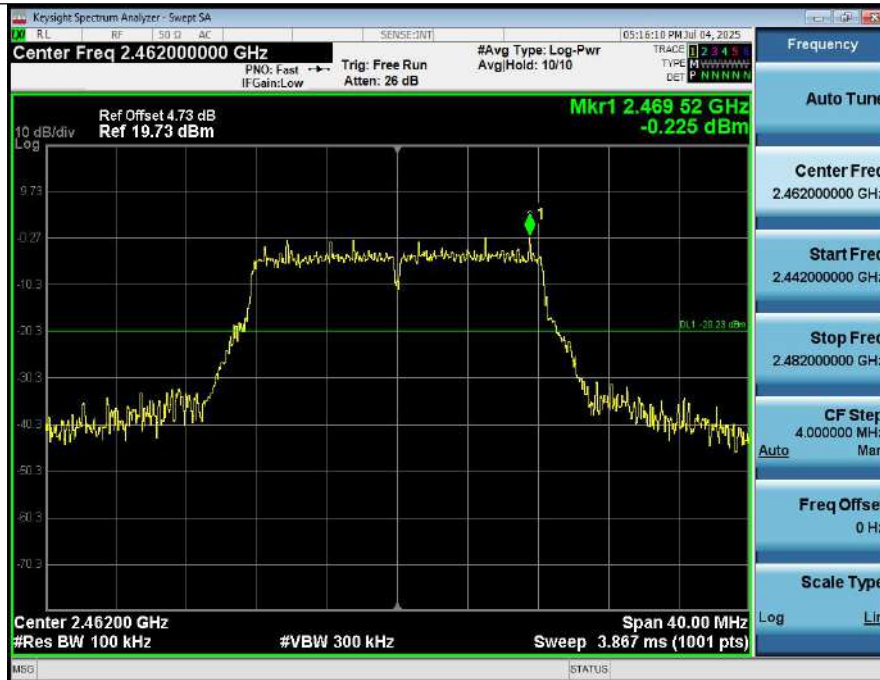
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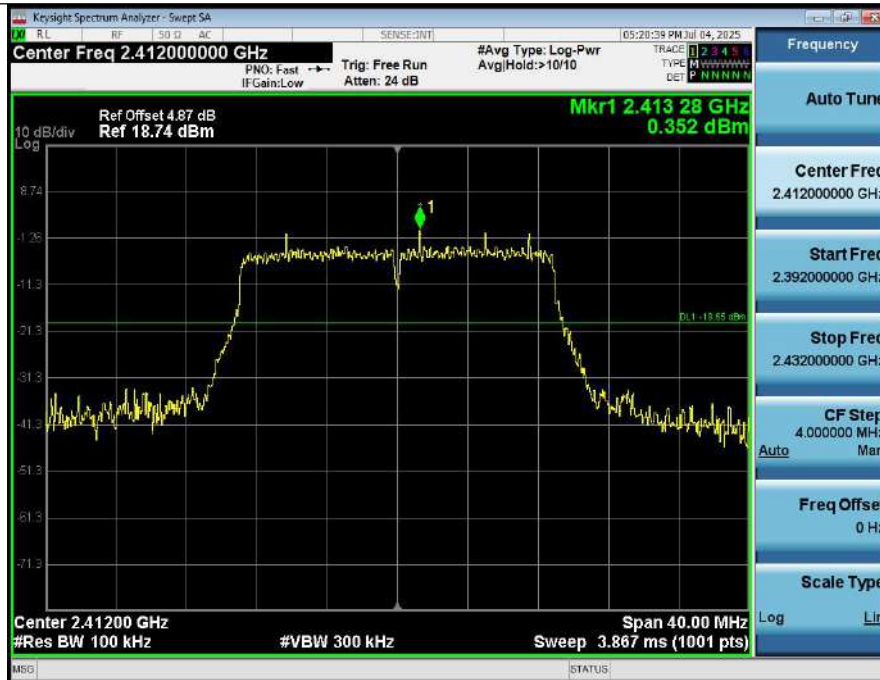
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2_Bandedge_NVNT_ANT1_802_11g_2462



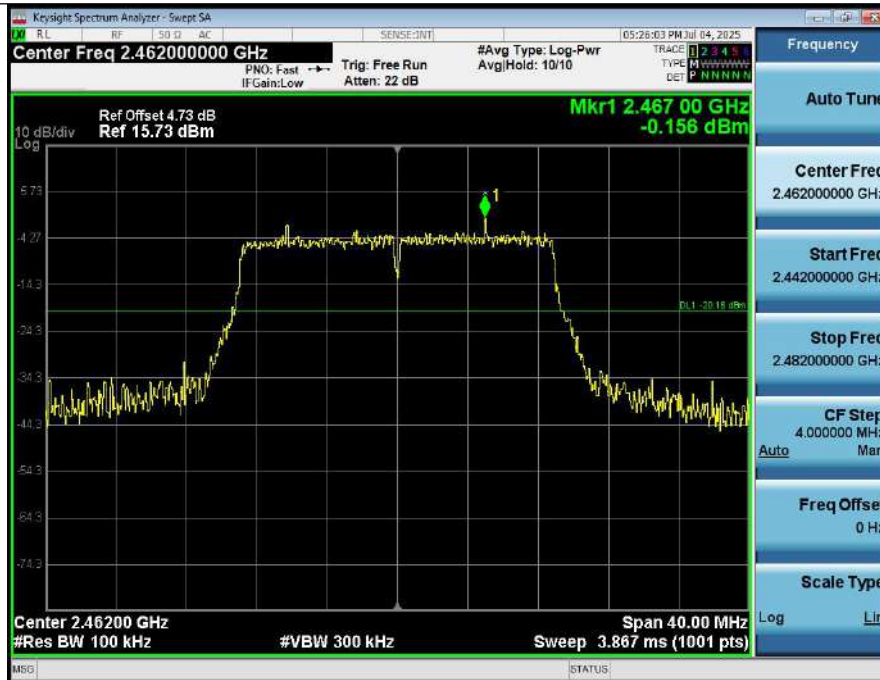
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



7. Spurious Emission

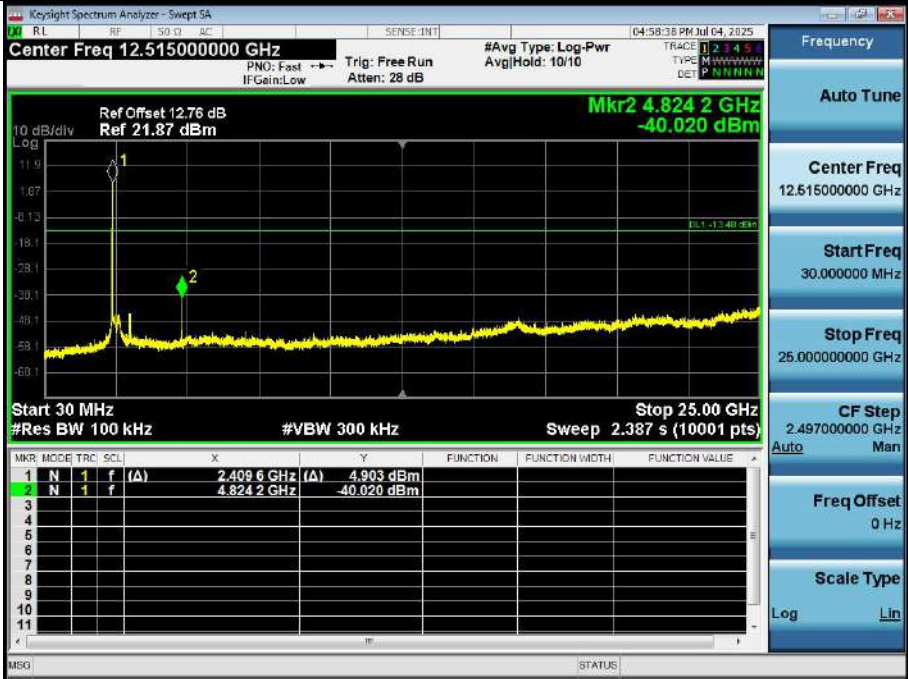
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	4824.240	6.523	-40.020	-13.477	Pass
NVNT	ANT1	802.11b	2437.00	24977.527	7.452	-36.746	-12.548	Pass
NVNT	ANT1	802.11b	2462.00	24960.048	6.125	-42.585	-13.875	Pass
NVNT	ANT1	802.11g	2412.00	3011.418	0.099	-48.434	-19.901	Pass
NVNT	ANT1	802.11g	2437.00	24433.181	-0.862	-44.933	-20.862	Pass
NVNT	ANT1	802.11g	2462.00	24390.732	-0.225	-44.925	-20.225	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2676.820	0.352	-48.887	-19.648	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24975.030	-0.210	-44.930	-20.210	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	3078.837	-0.156	-47.378	-20.156	Pass

Note:the offset is the cabel loss

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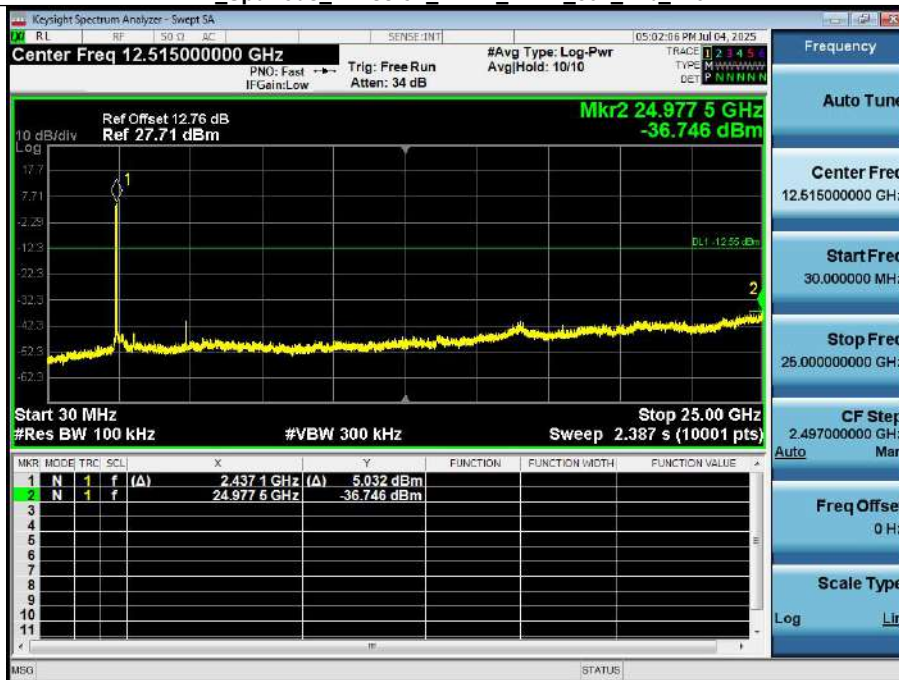
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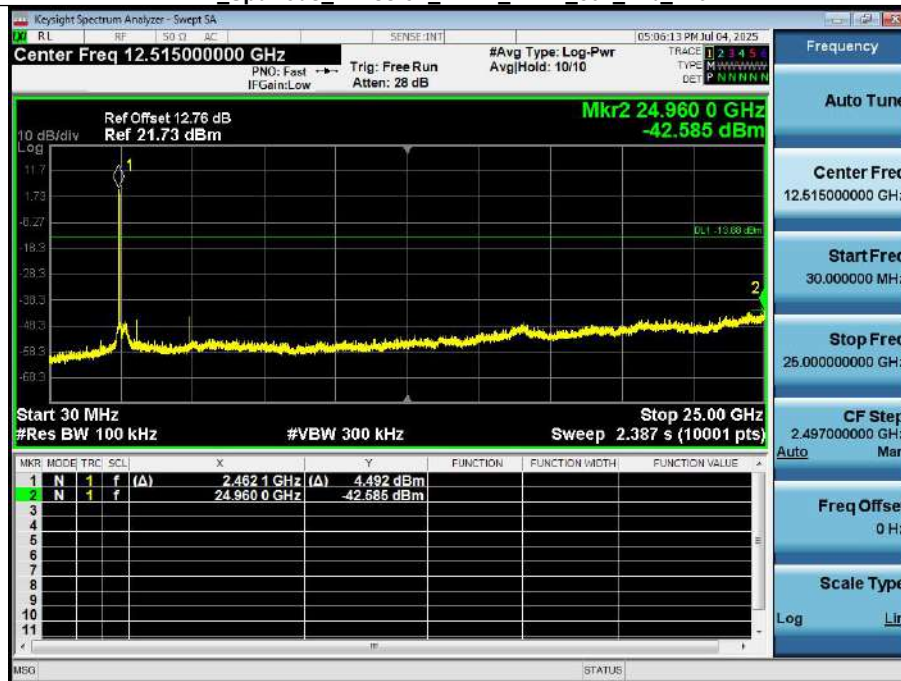
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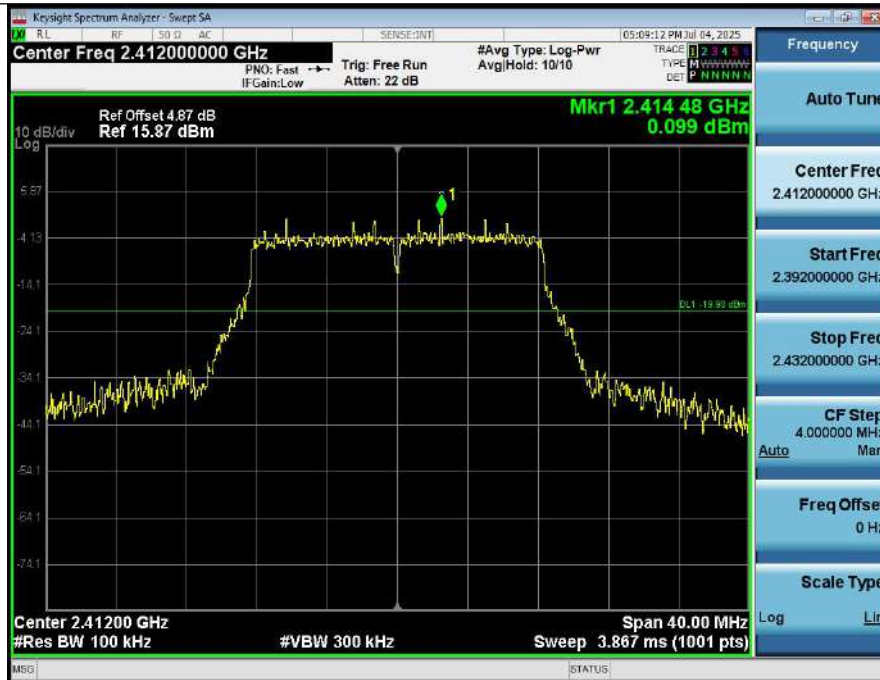
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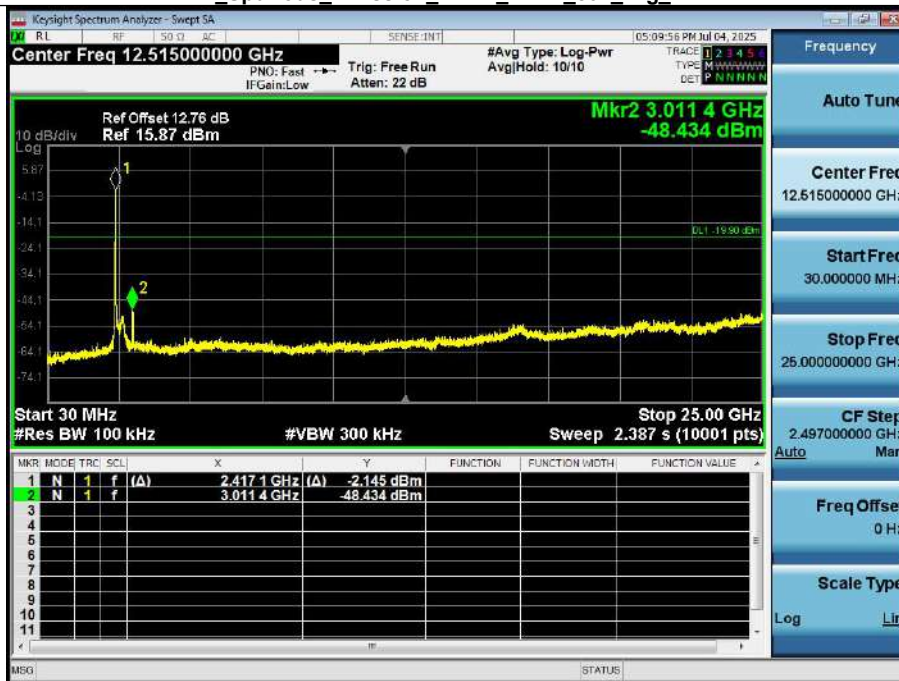
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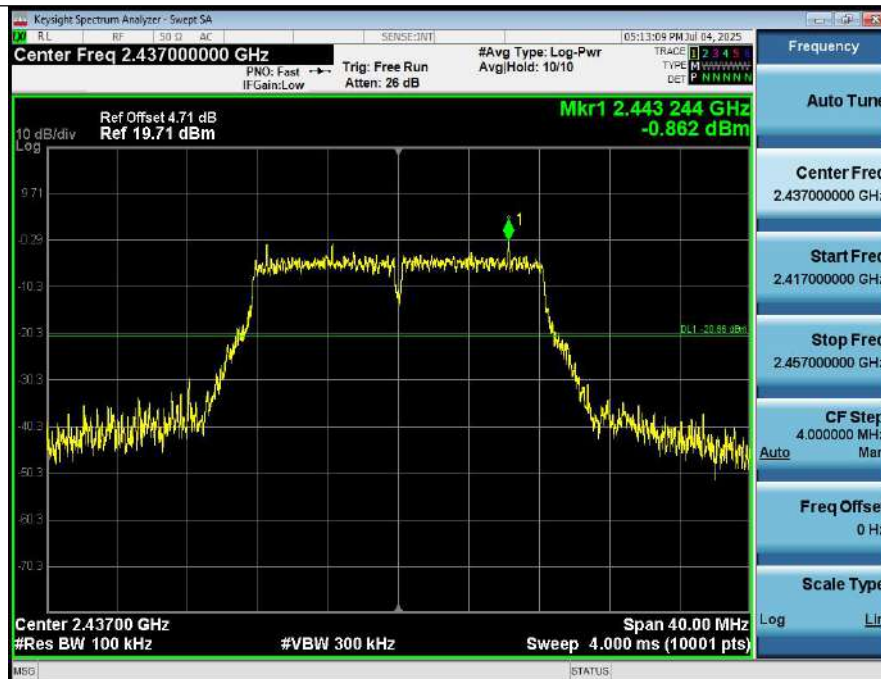
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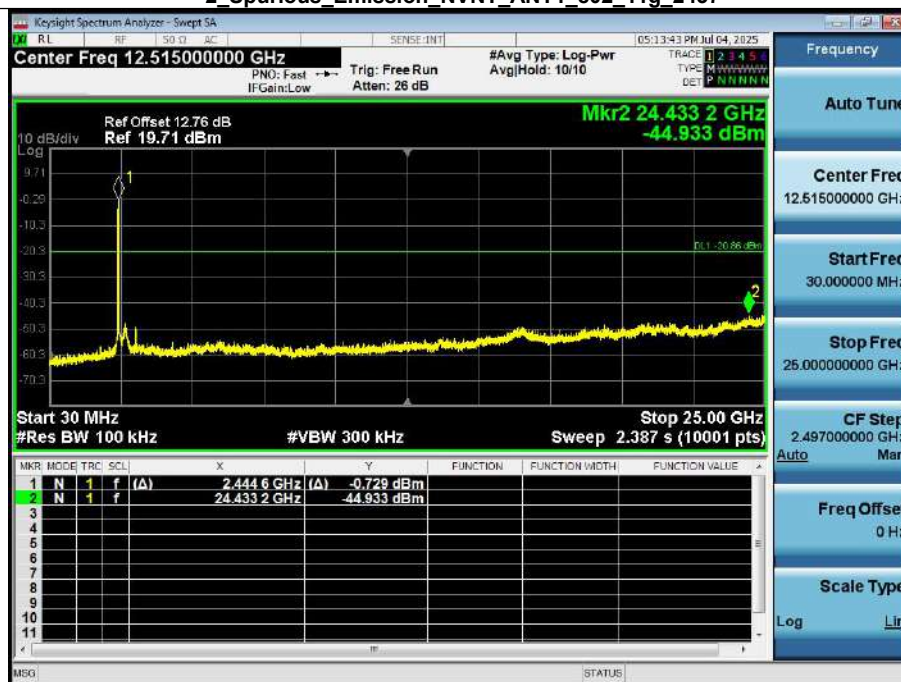
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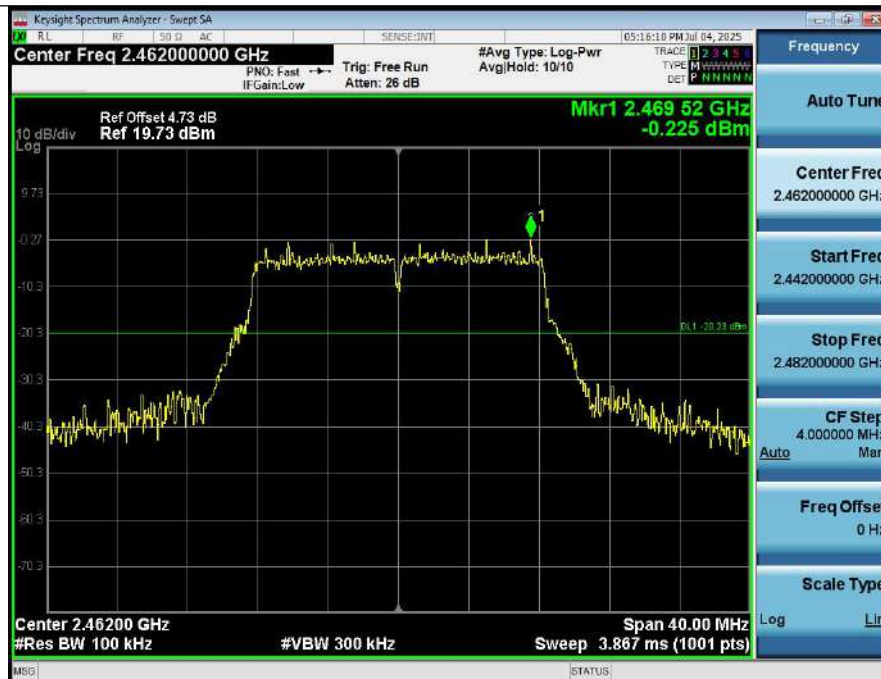
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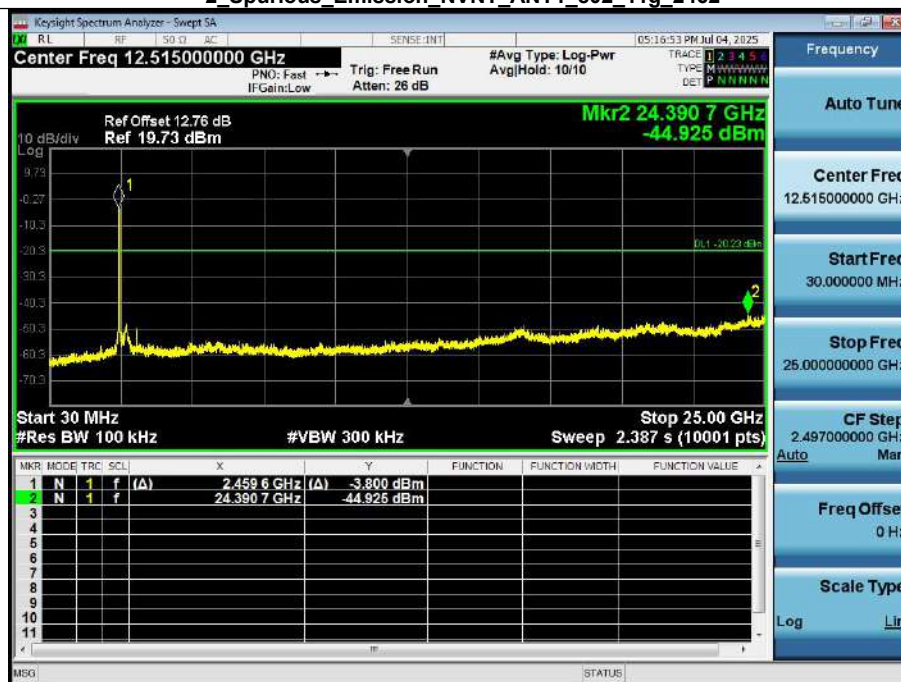
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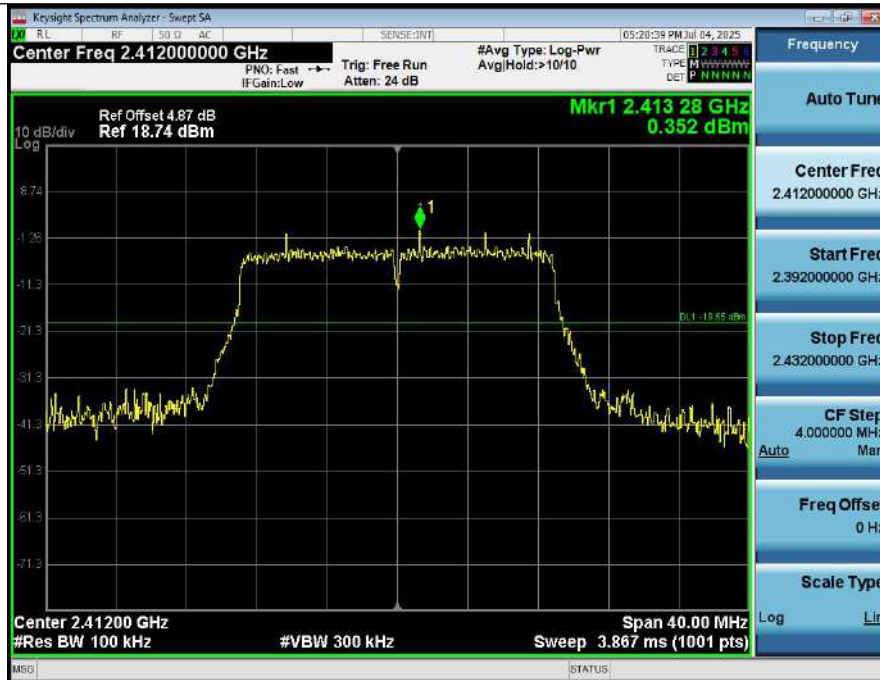
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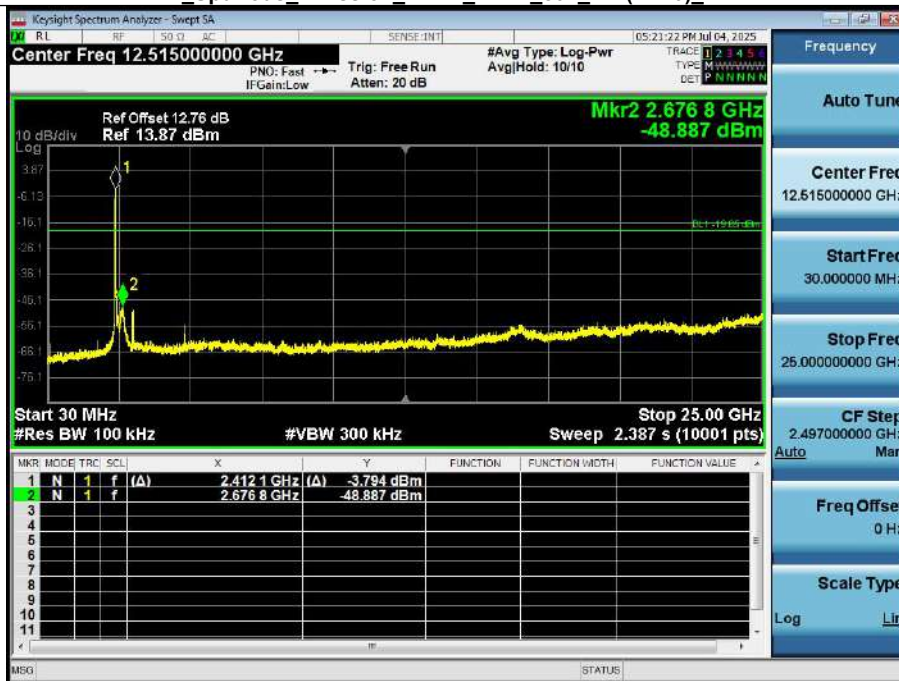
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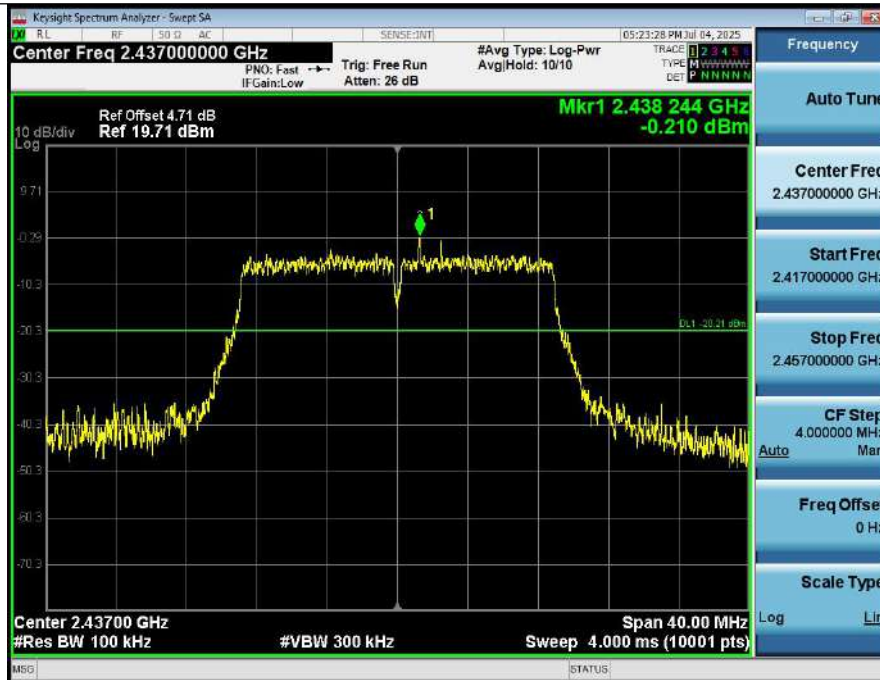
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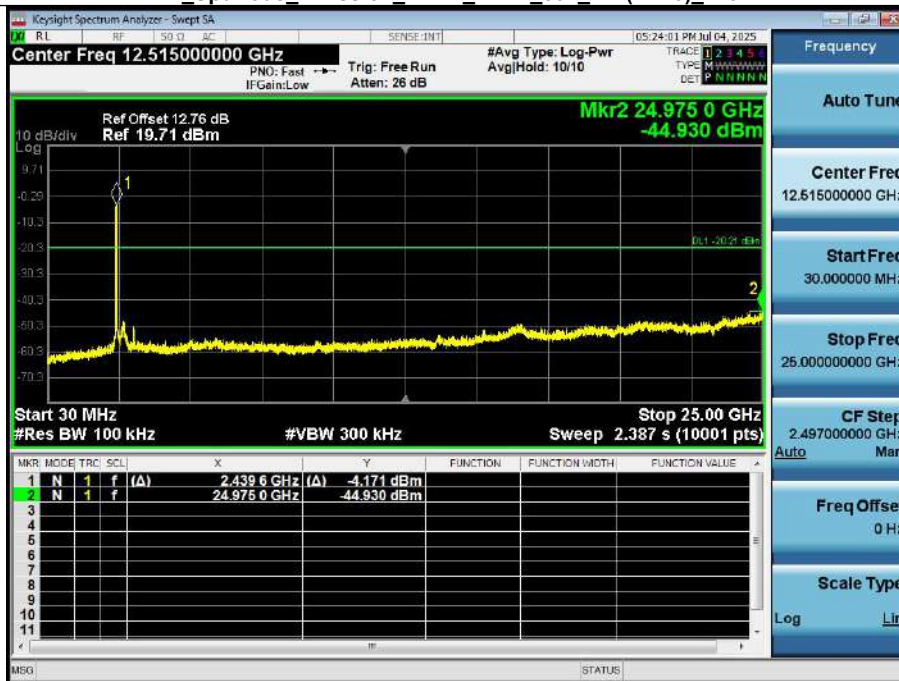
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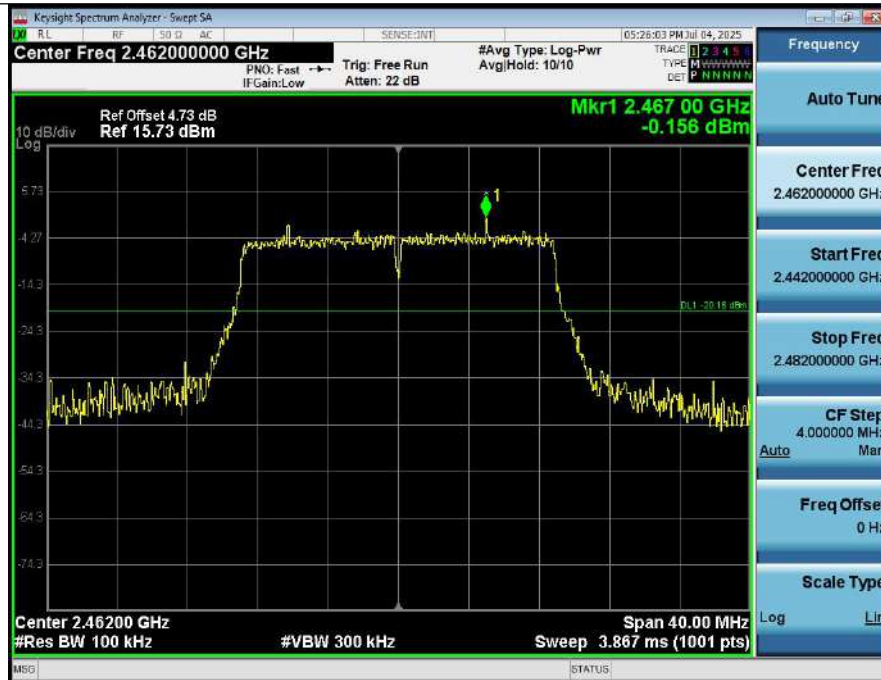
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2 Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462

