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240603 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	8.60	500	Pass
NVNT	ANT1	802.11b	2437.00	8.59	500	Pass
NVNT	ANT1	802.11b	2462.00	8.61	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	17.00	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.43	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.12	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.19	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.05	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.03	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



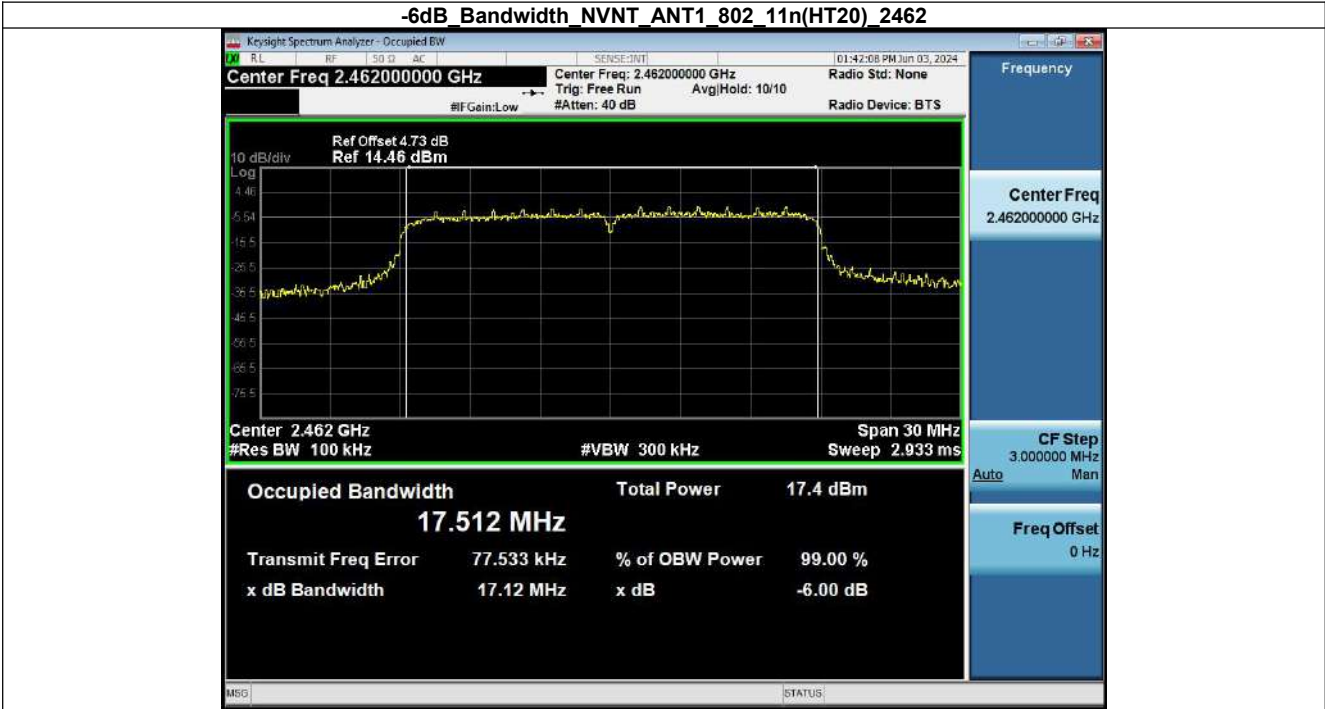
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



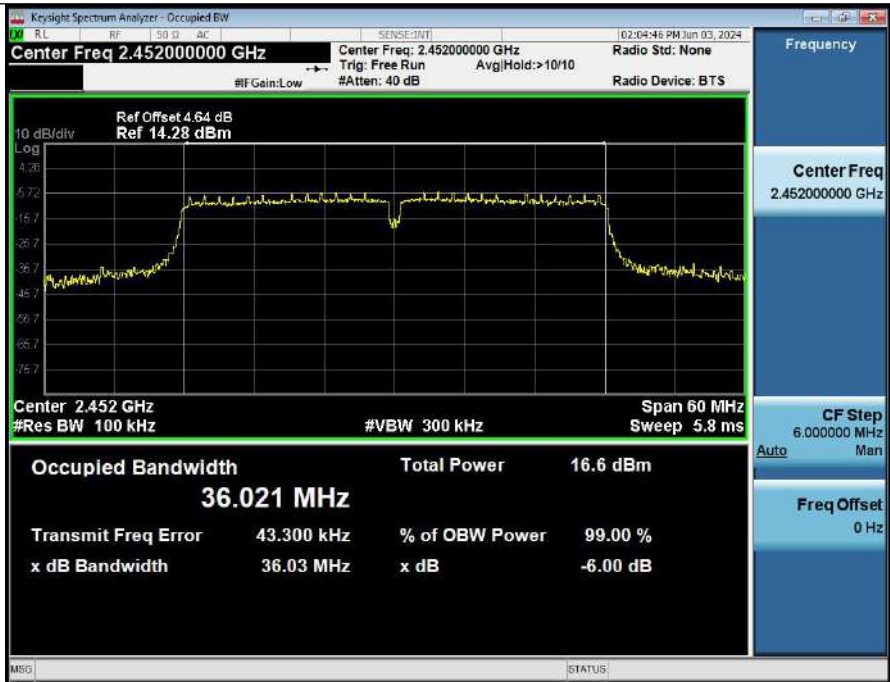
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.902
NVNT	ANT1	802.11b	2437.00	12.006
NVNT	ANT1	802.11b	2462.00	12.036
NVNT	ANT1	802.11g	2412.00	17.067
NVNT	ANT1	802.11g	2437.00	17.113
NVNT	ANT1	802.11g	2462.00	17.096
NVNT	ANT1	802.11n(HT20)	2412.00	17.848
NVNT	ANT1	802.11n(HT20)	2437.00	17.841
NVNT	ANT1	802.11n(HT20)	2462.00	17.881
NVNT	ANT1	802.11n(HT40)	2422.00	36.488
NVNT	ANT1	802.11n(HT40)	2437.00	36.468
NVNT	ANT1	802.11n(HT40)	2452.00	36.570



99% Occupied Bandwidth NVNT ANT1 802_11b_2437



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



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

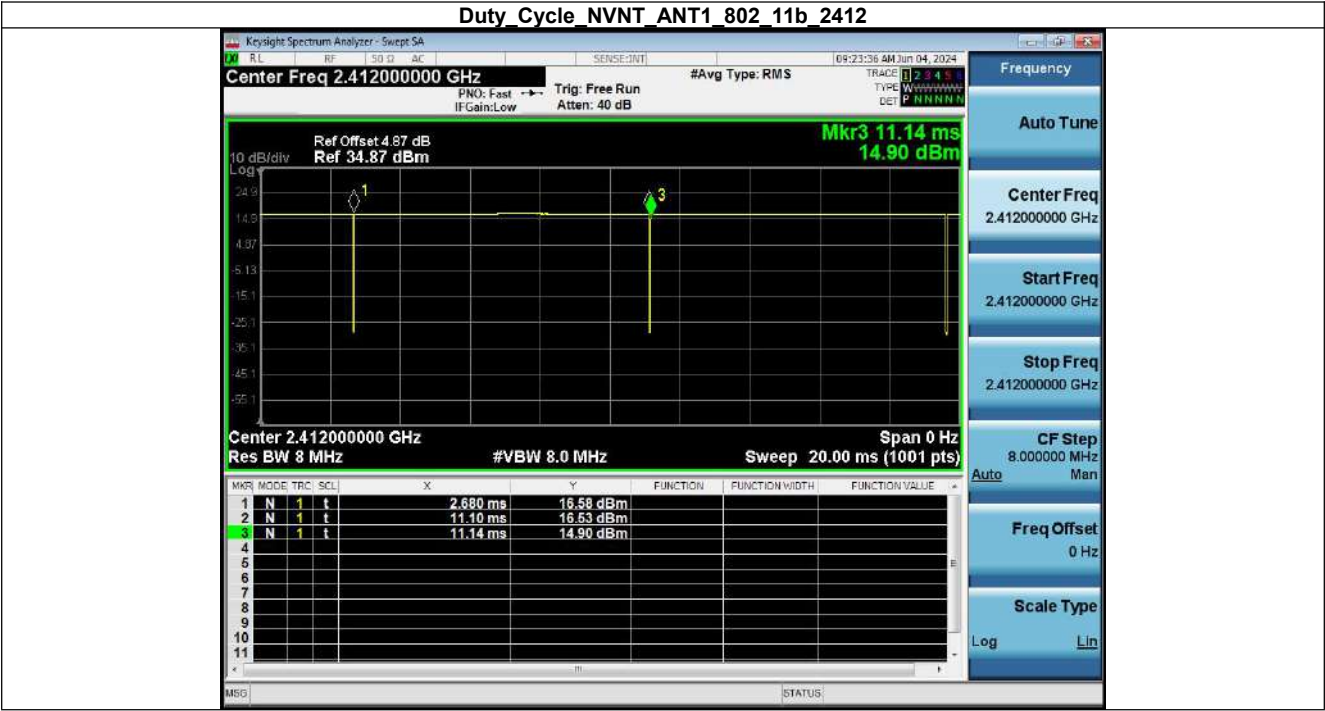


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

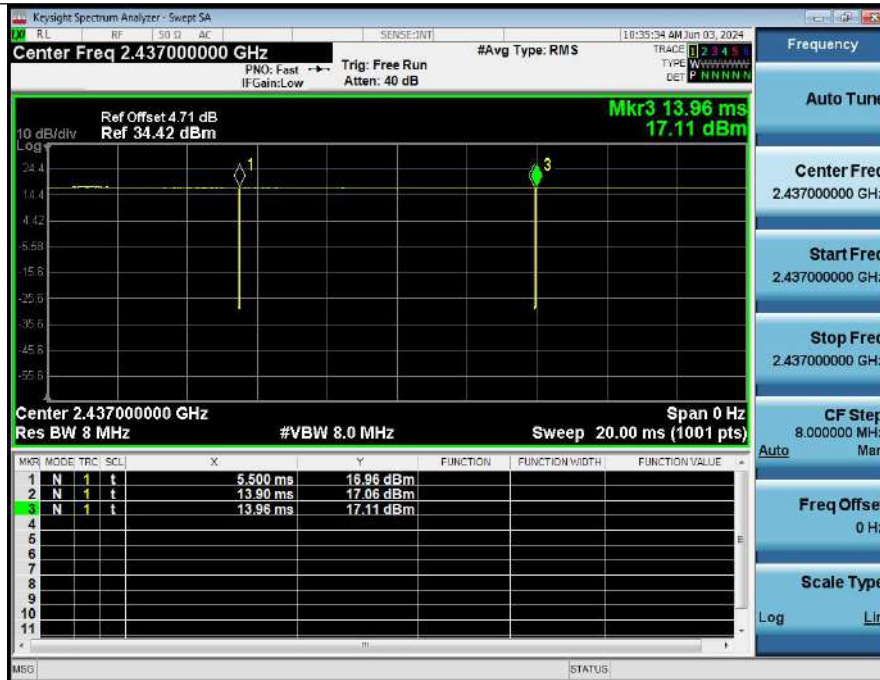


3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.01
NVNT	ANT1	802.11b	2437.00	99.53	0.02
NVNT	ANT1	802.11b	2462.00	99.76	0.01
NVNT	ANT1	802.11g	2412.00	97.22	0.12
NVNT	ANT1	802.11g	2437.00	97.22	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	0.07
NVNT	ANT1	802.11n(HT20)	2437.00	98.39	0.07
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14
NVNT	ANT1	802.11n(HT40)	2422.00	96.87	0.14
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



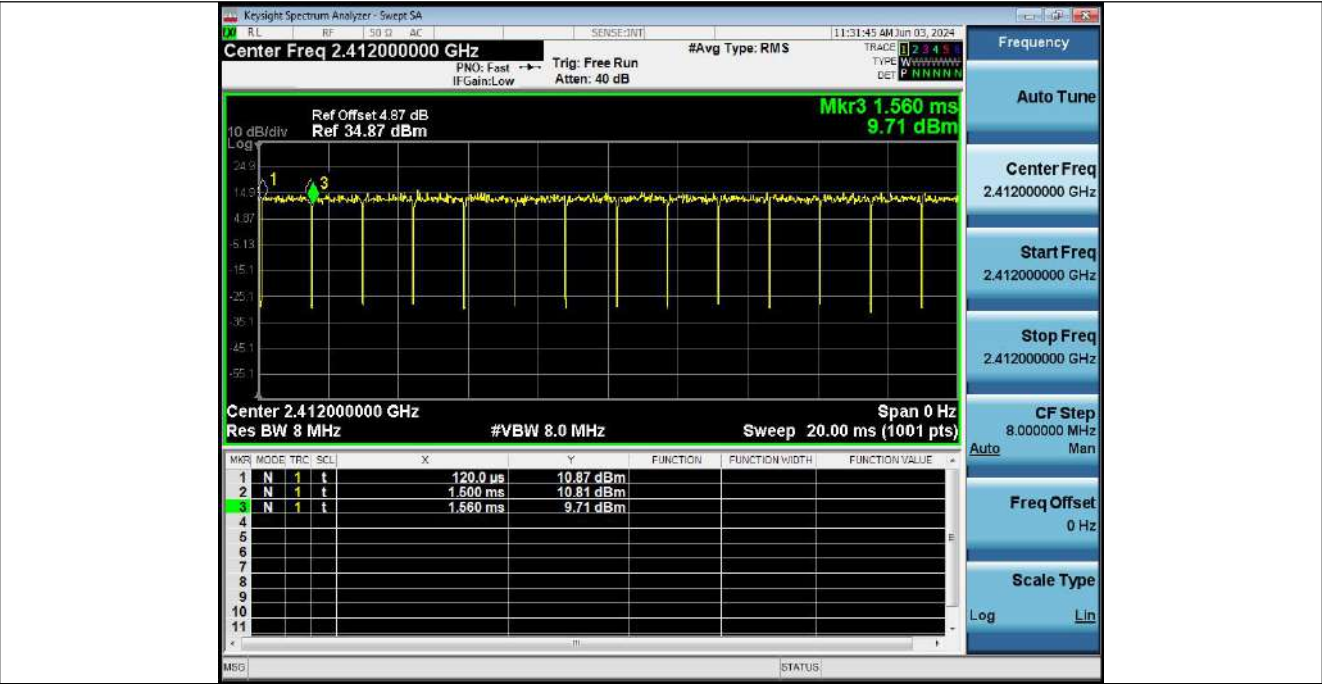
Duty Cycle NVNT ANT1 802 11b 2437



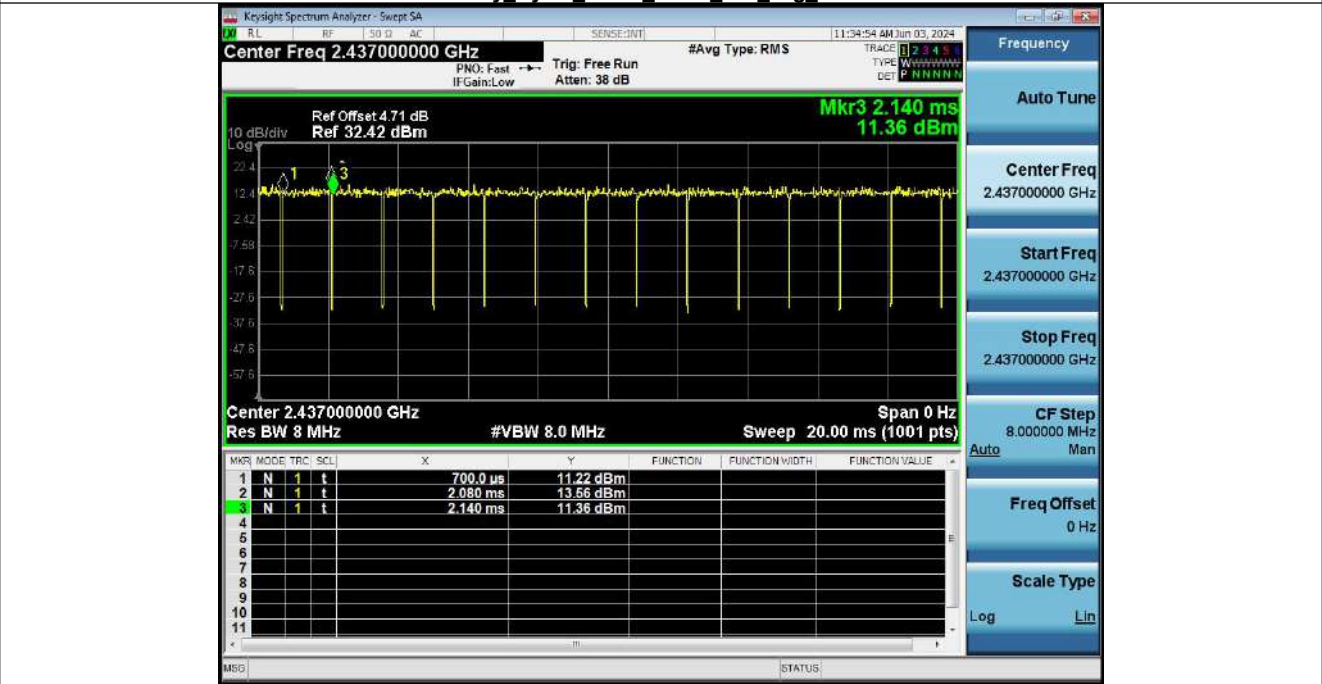
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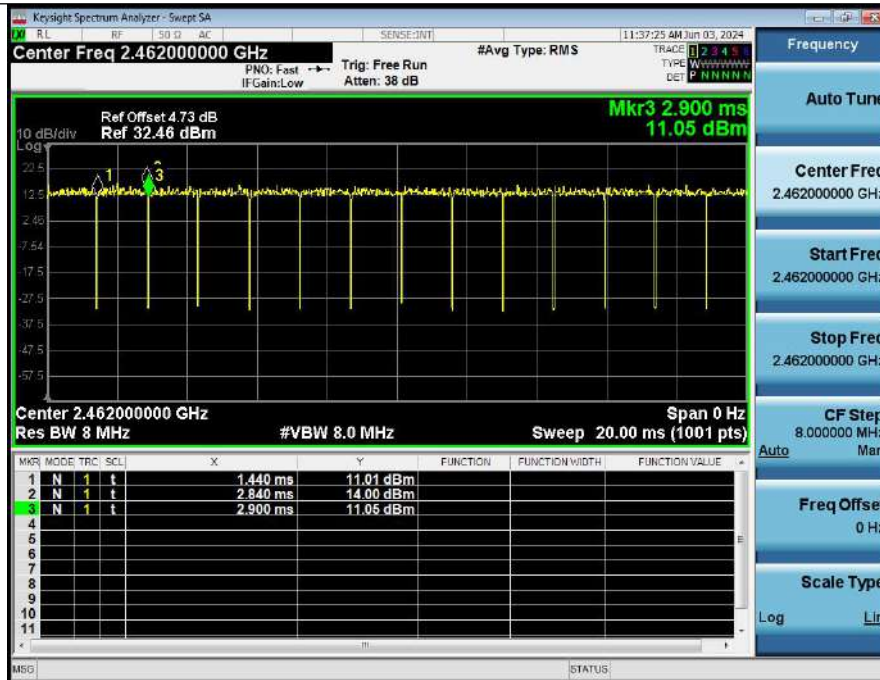
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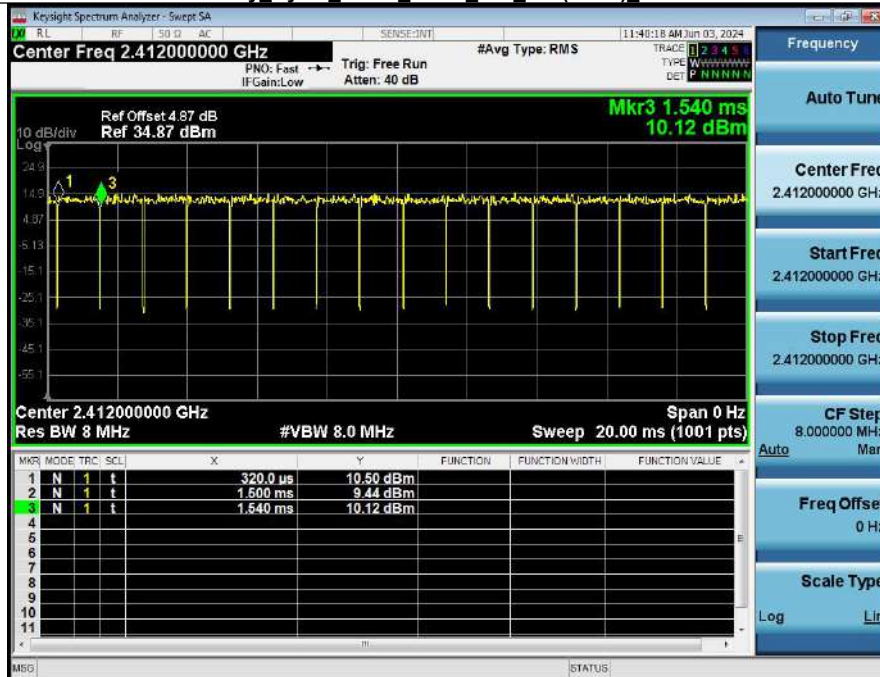
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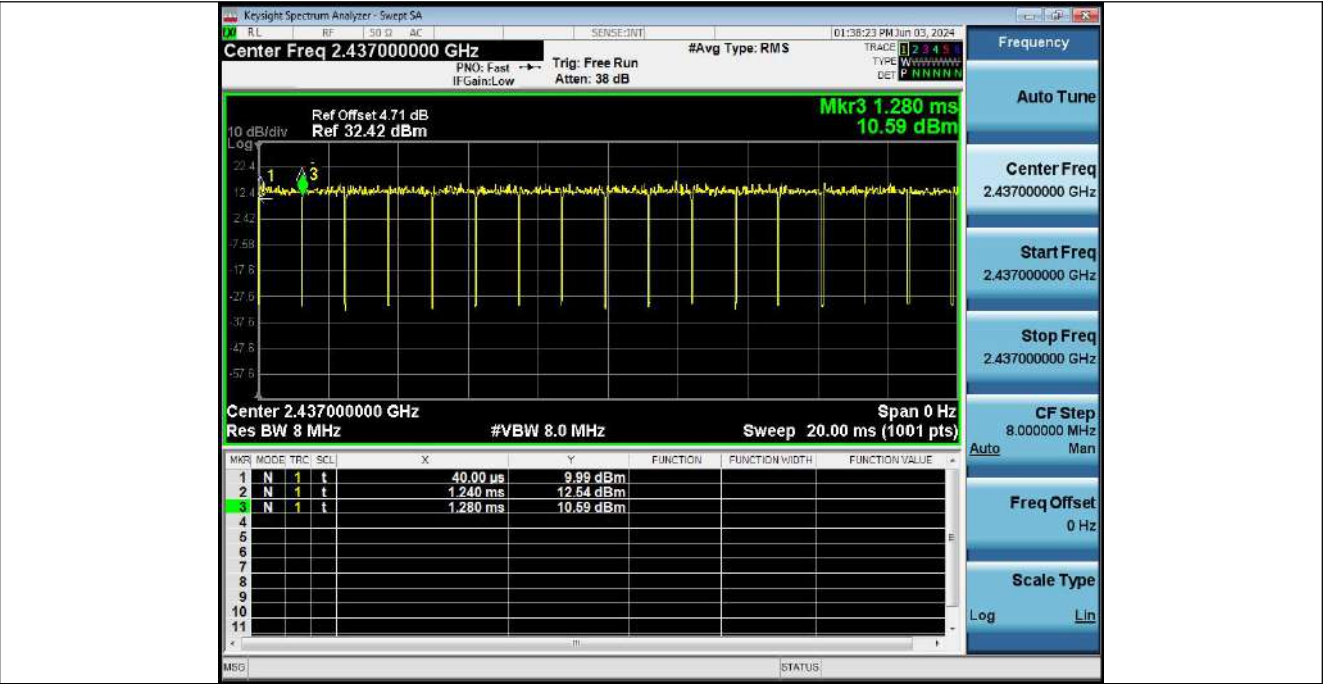
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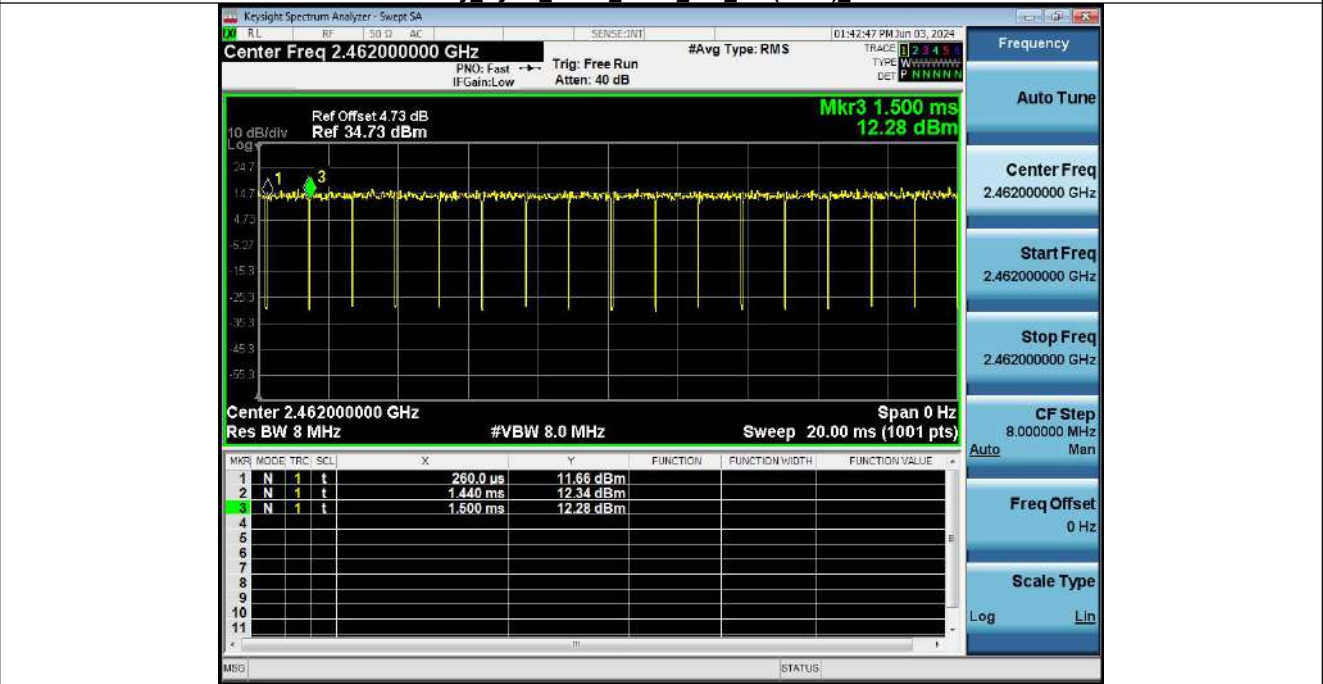
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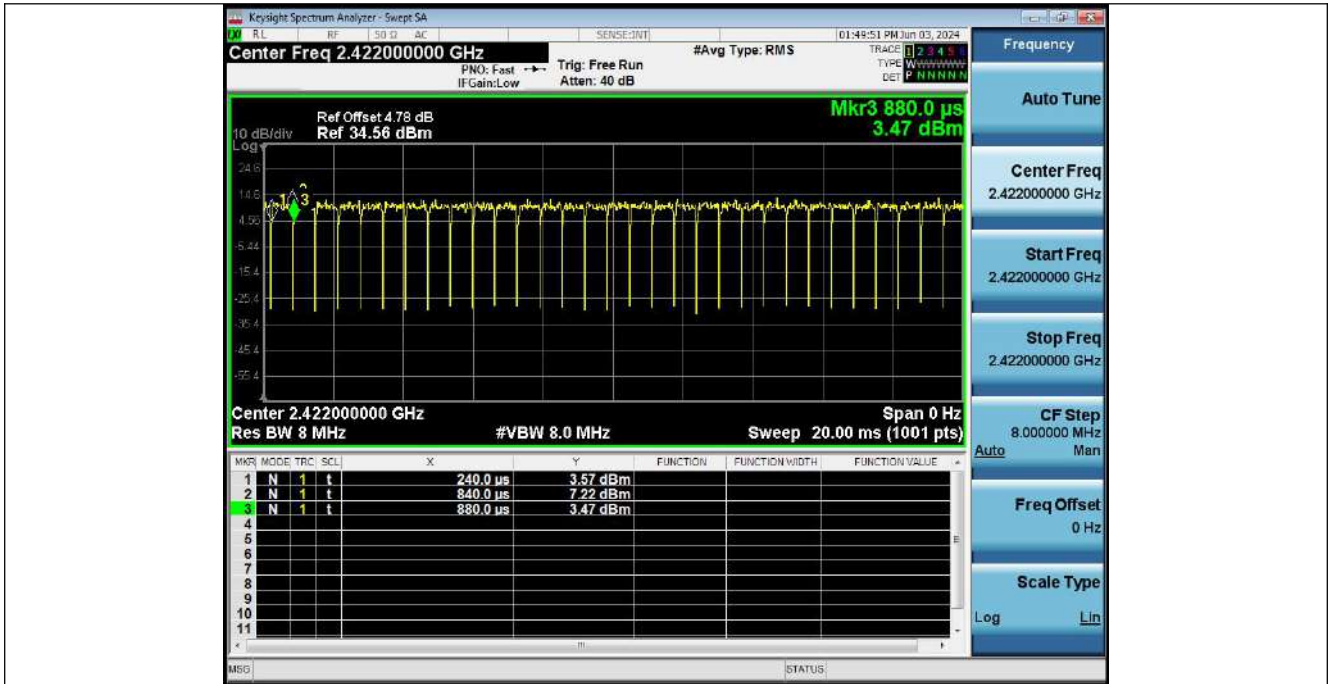
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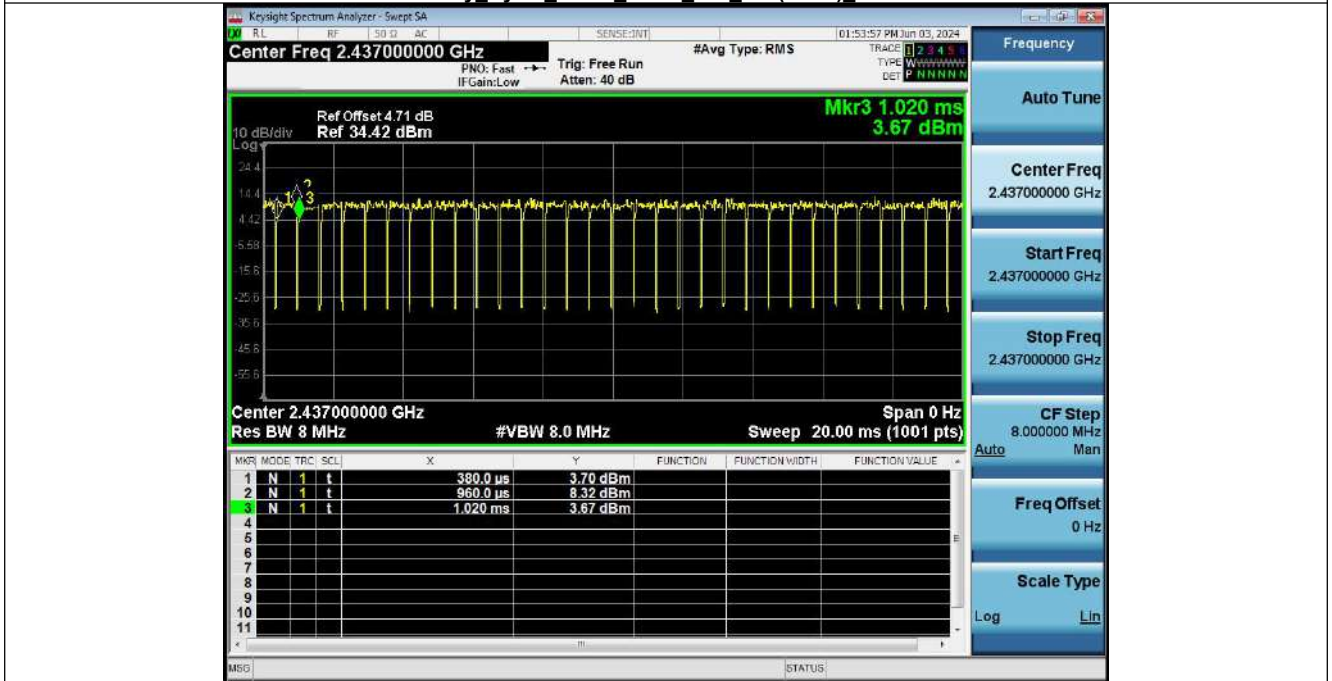
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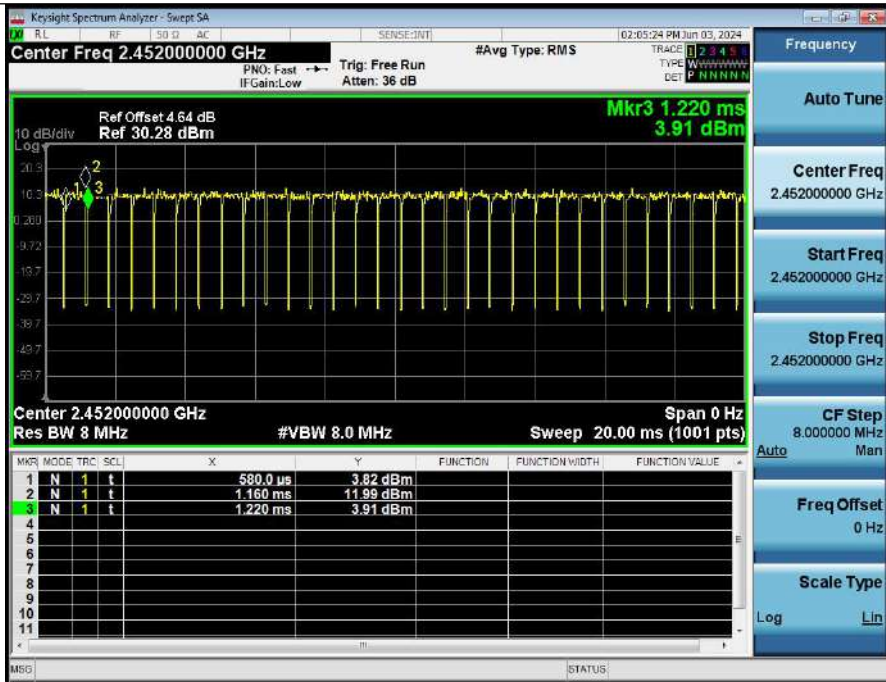
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Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	15.80	15.80	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	16.42	16.42	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	16.46	16.46	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	15.87	15.87	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	16.49	16.49	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	17.01	17.01	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	16.37	16.37	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	17.27	17.27	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	18.04	18.04	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	17.64	17.64	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	17.45	17.45	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	17.11	17.11	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	3.50	-10.00	-6.50	8	Pass
NVNT	ANT1	802.11b	2437.00	2.55	-10.00	-7.45	8	Pass
NVNT	ANT1	802.11b	2462.00	4.36	-10.00	-5.64	8	Pass
NVNT	ANT1	802.11g	2412.00	-7.54	-10.00	-17.54	8	Pass
NVNT	ANT1	802.11g	2437.00	-7.42	-10.00	-17.42	8	Pass
NVNT	ANT1	802.11g	2462.00	-5.45	-10.00	-15.45	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.41	-10.00	-17.41	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-7.08	-10.00	-17.08	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-5.63	-10.00	-15.63	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-9.16	-10.00	-19.16	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-9.70	-10.00	-19.70	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-10.12	-10.00	-20.12	8	Pass



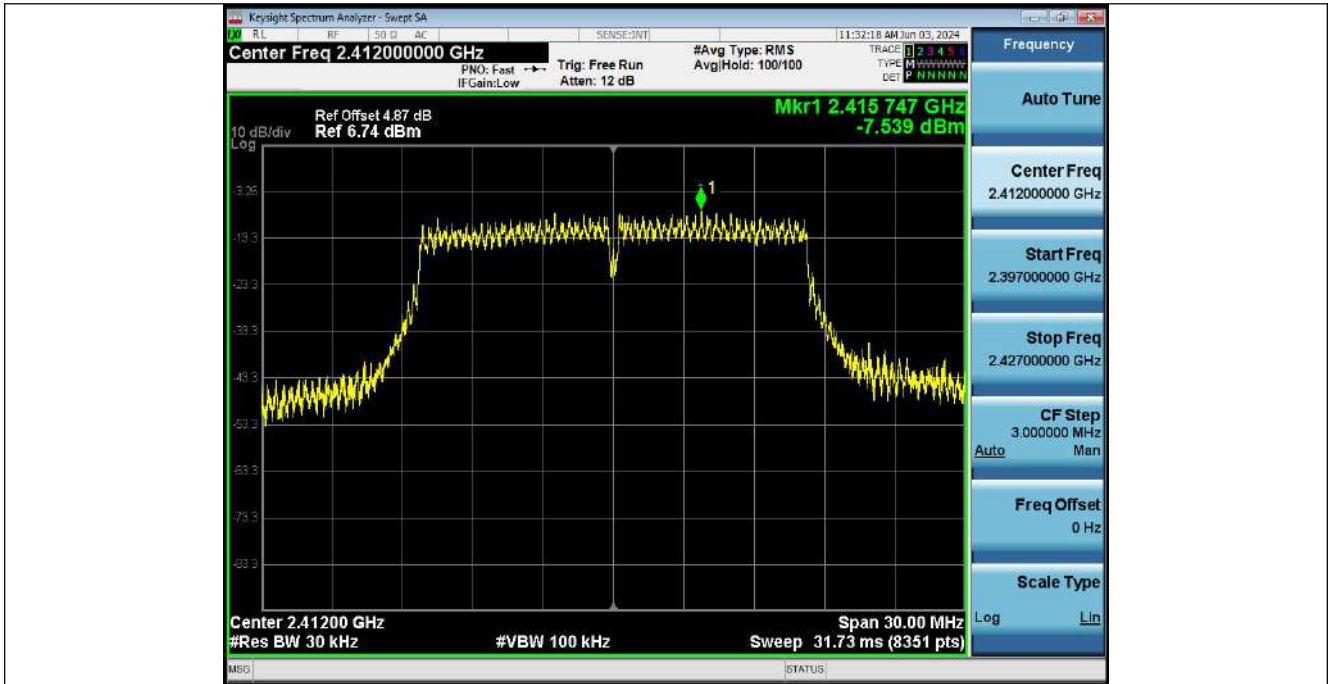
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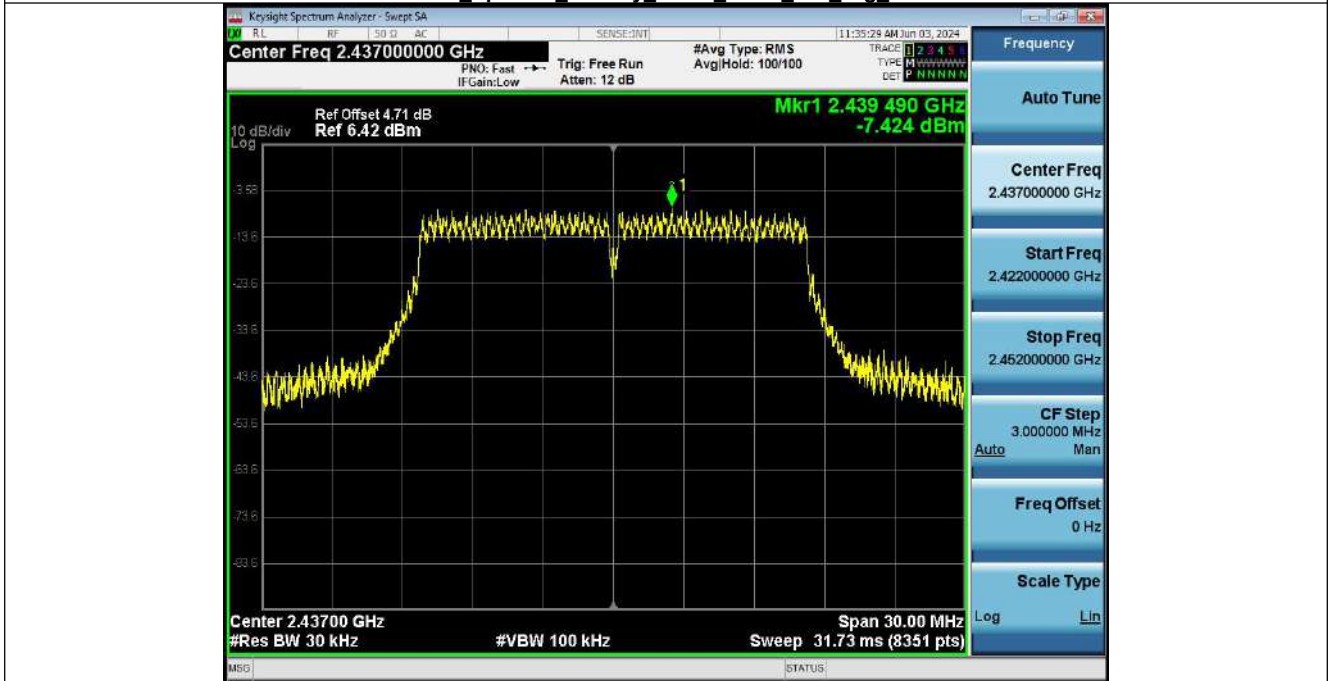
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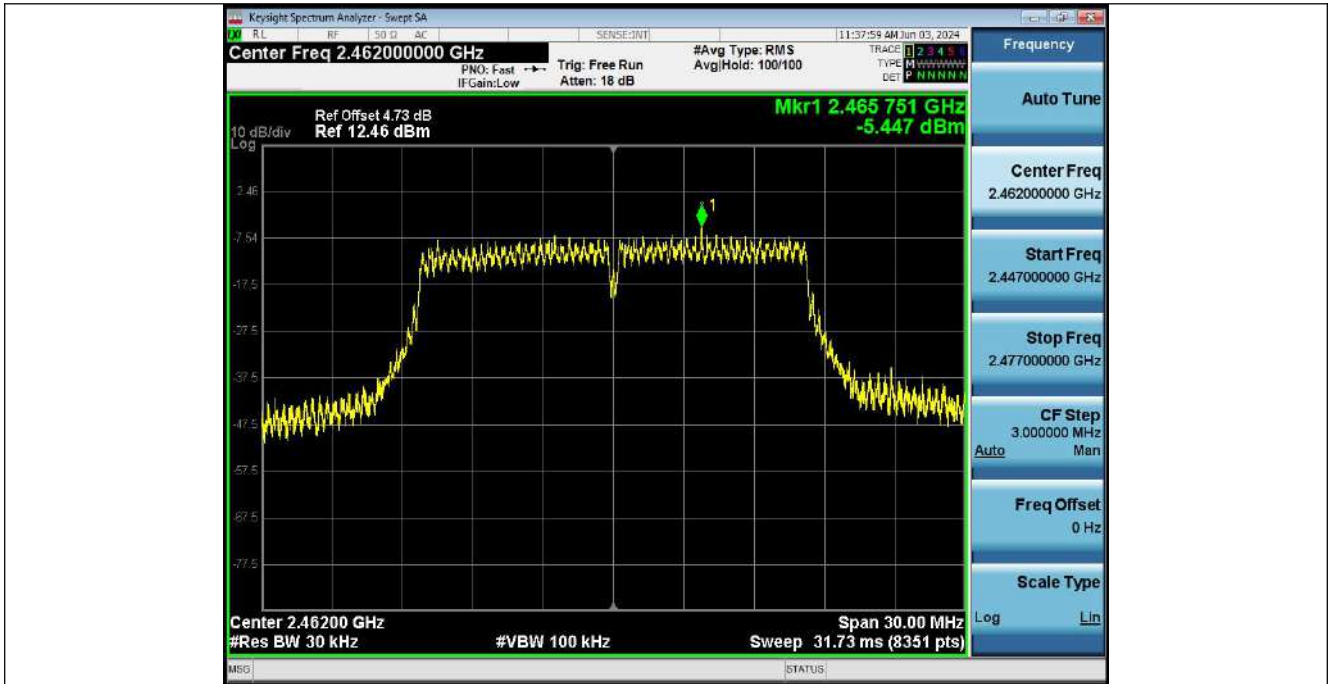
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



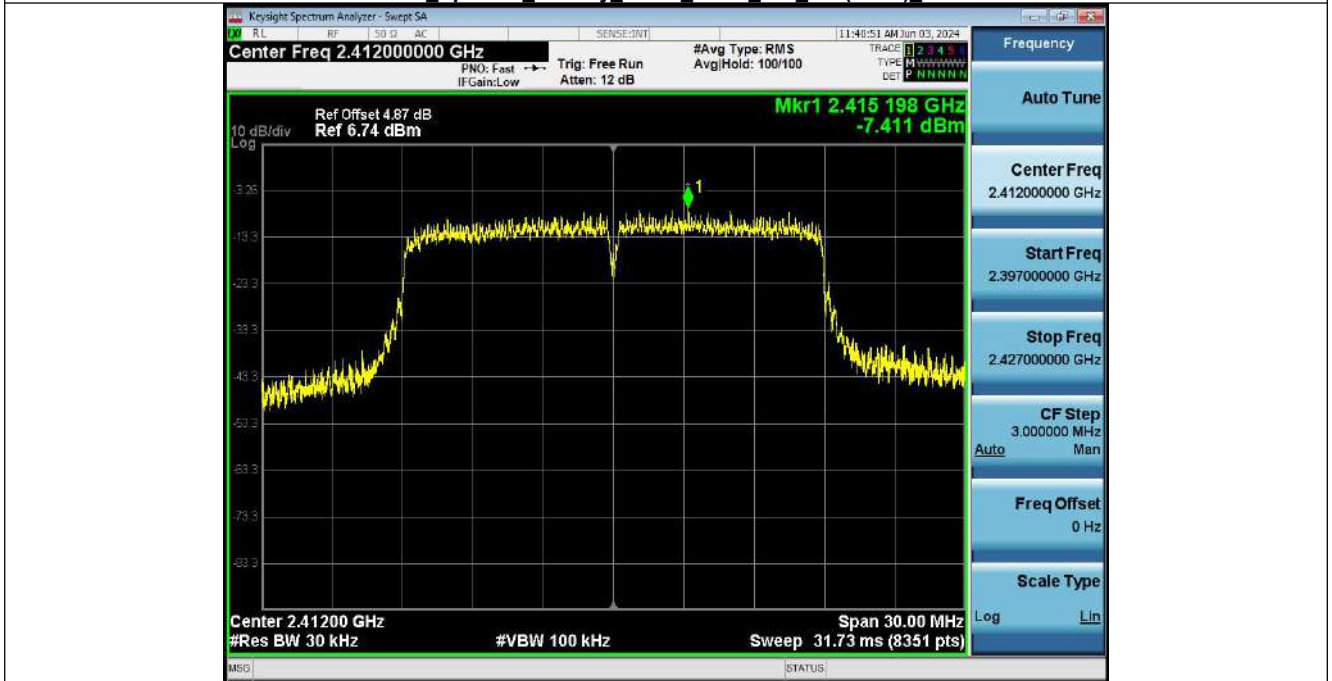
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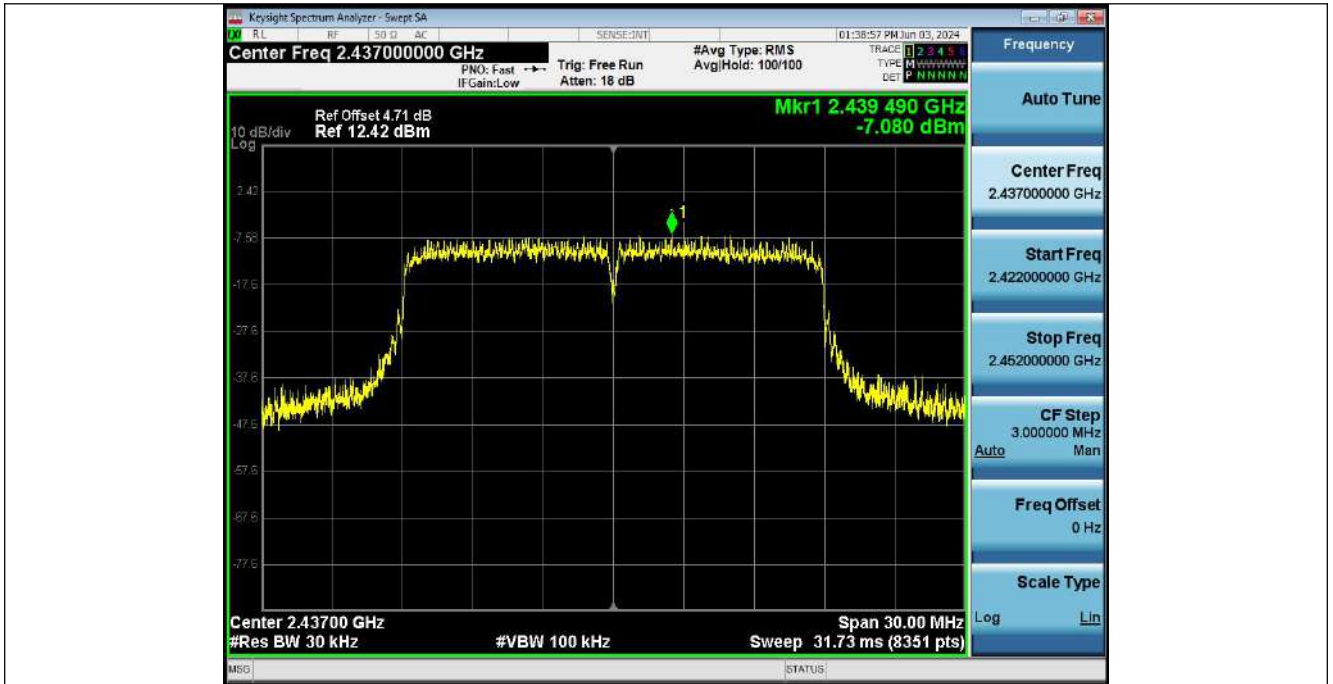
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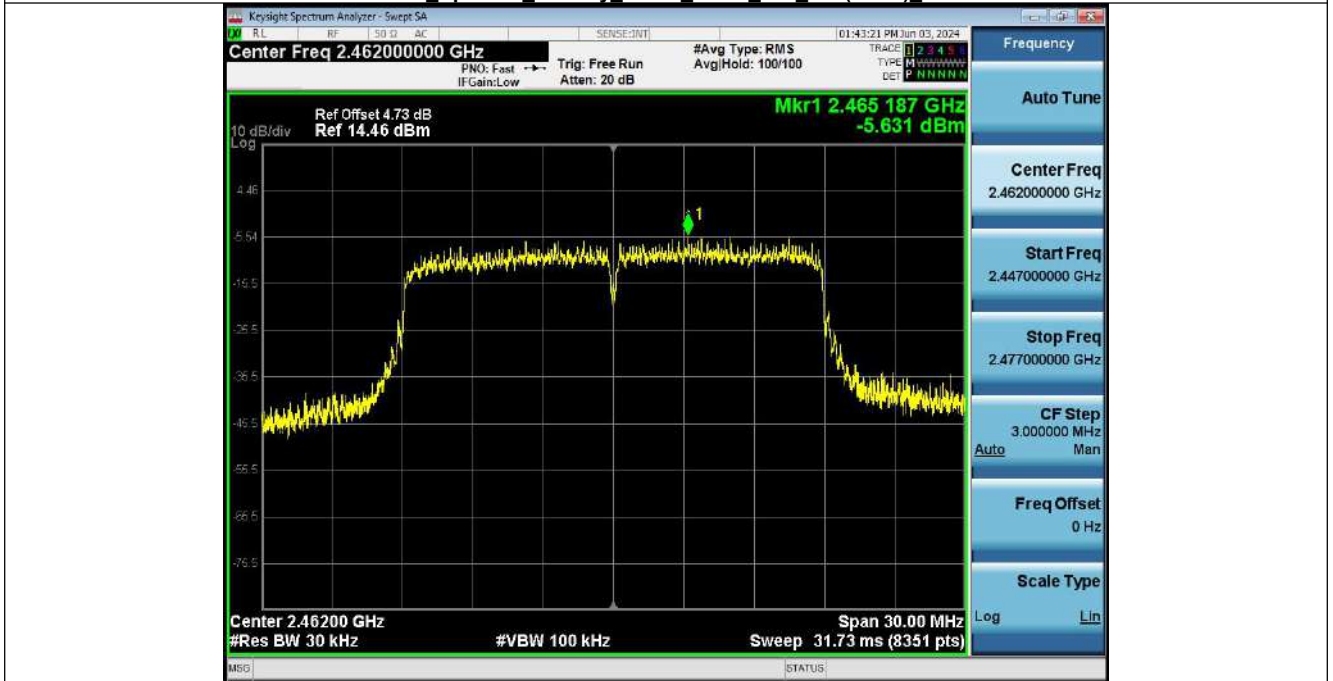
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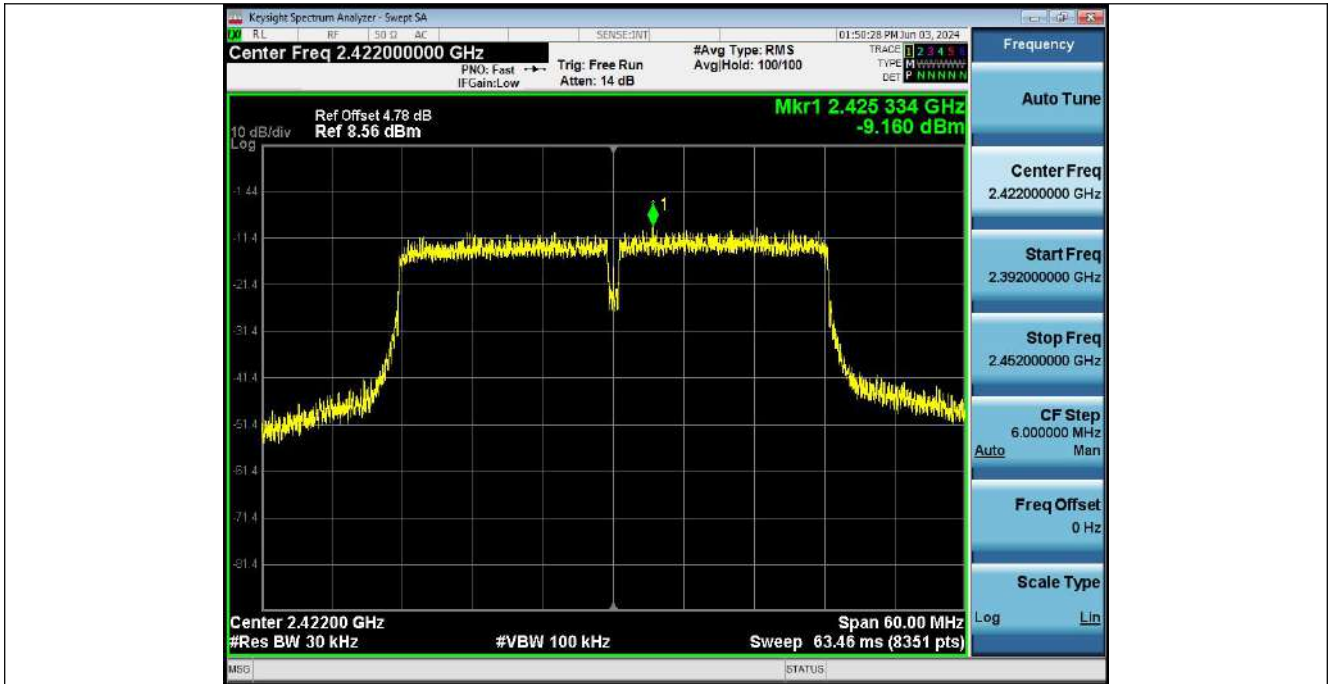
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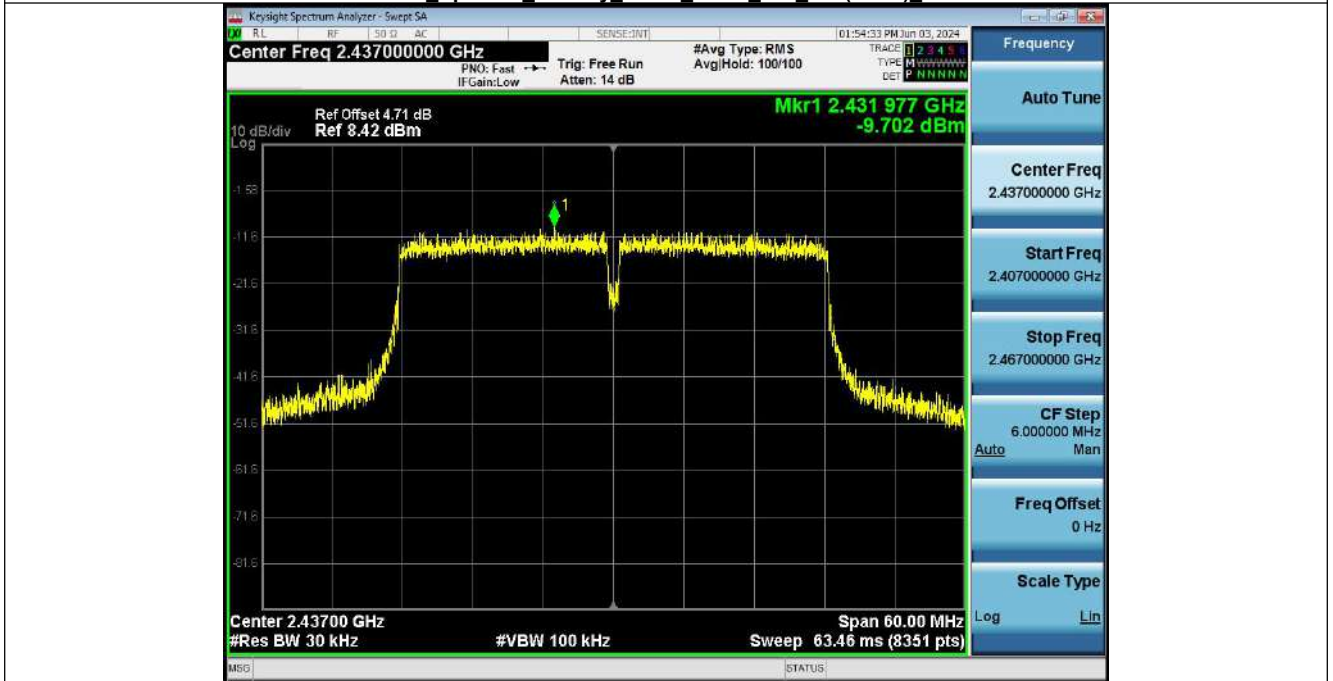
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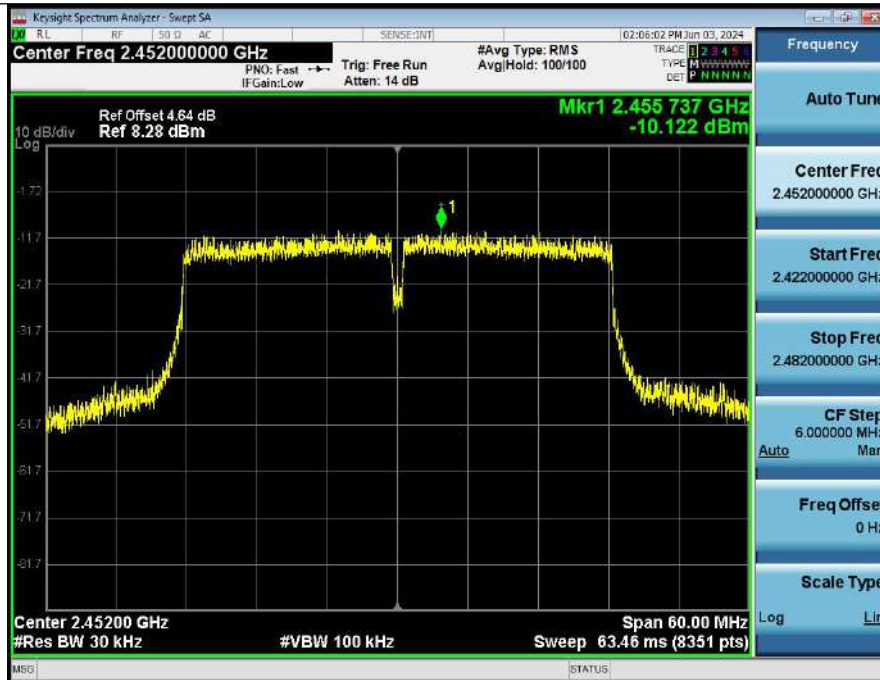
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



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	-39.849	-15.993	Pass
NVNT	ANT1	802.11b	2462.00	2485.024	-55.114	-15.359	Pass
NVNT	ANT1	802.11g	2412.00	2398.592	-35.668	-23.005	Pass
NVNT	ANT1	802.11g	2462.00	2483.872	-41.724	-21.953	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.928	-35.350	-22.978	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2485.072	-40.619	-21.308	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-36.339	-24.738	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-40.825	-25.364	Pass



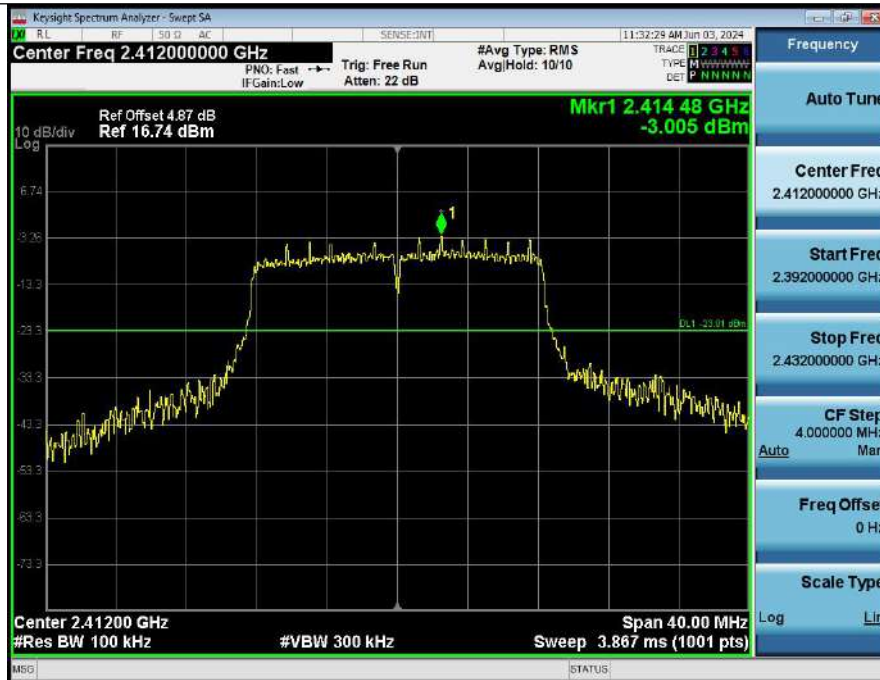
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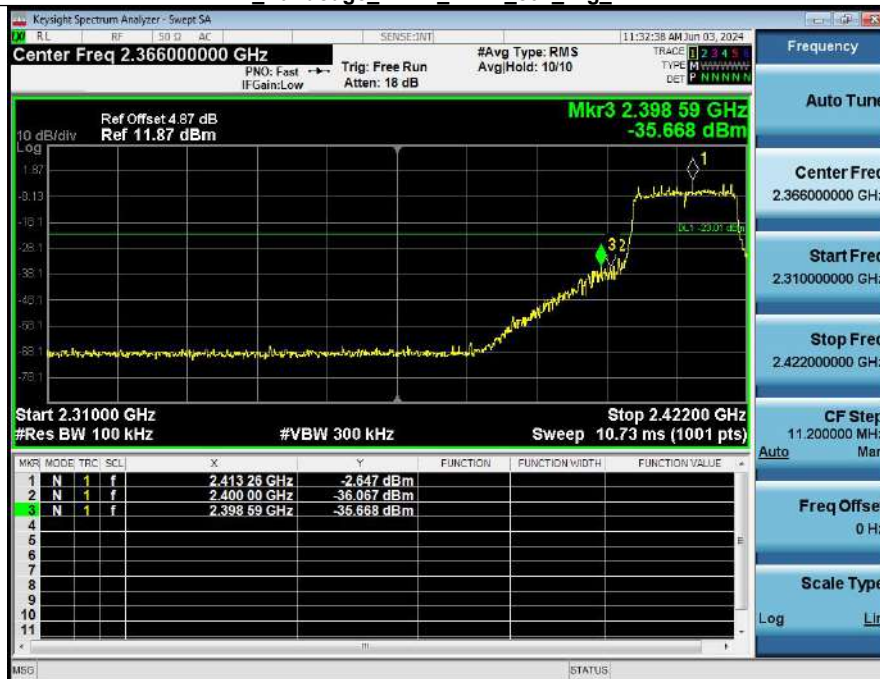
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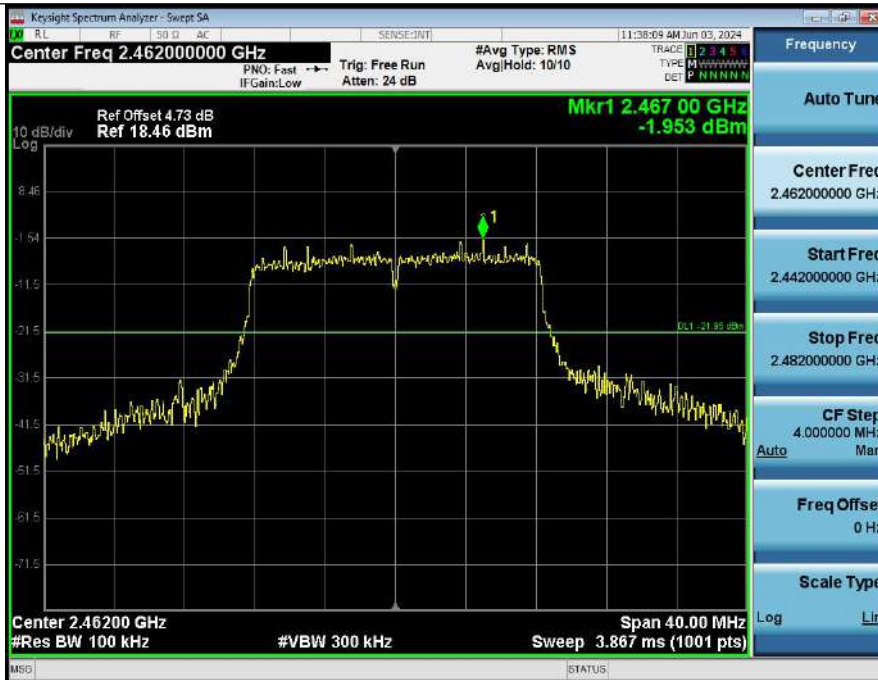
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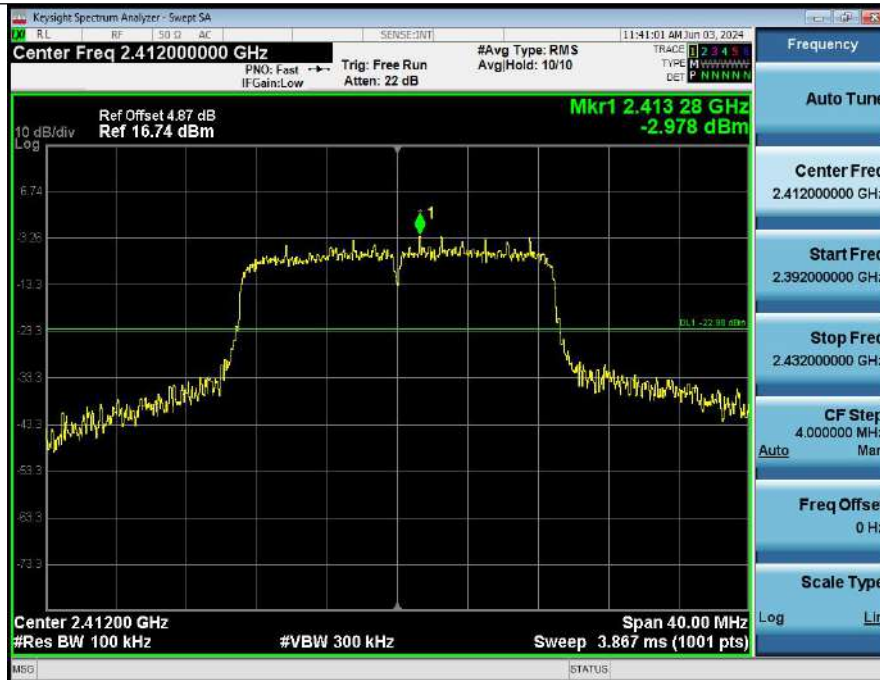
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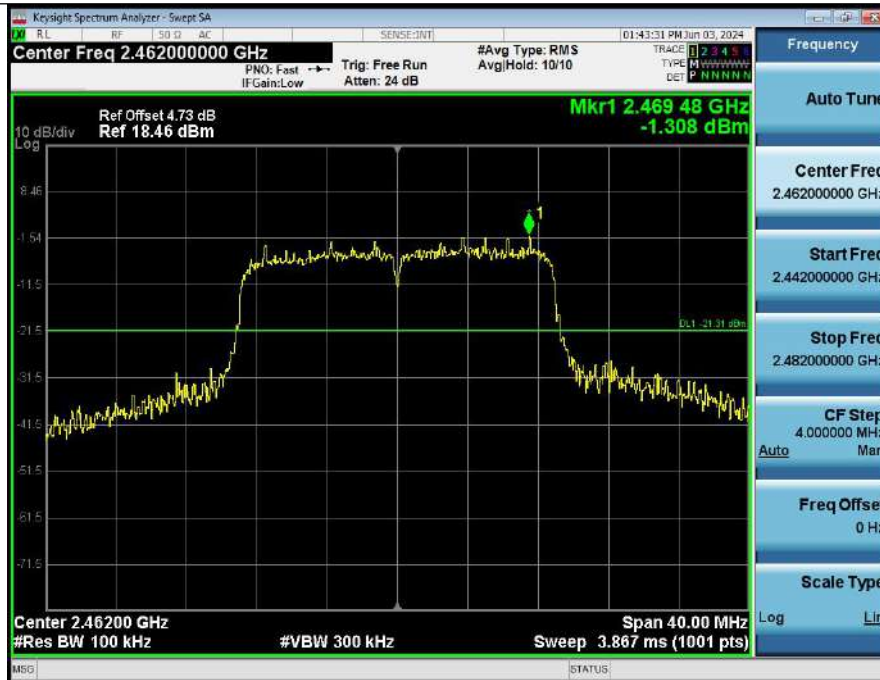
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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



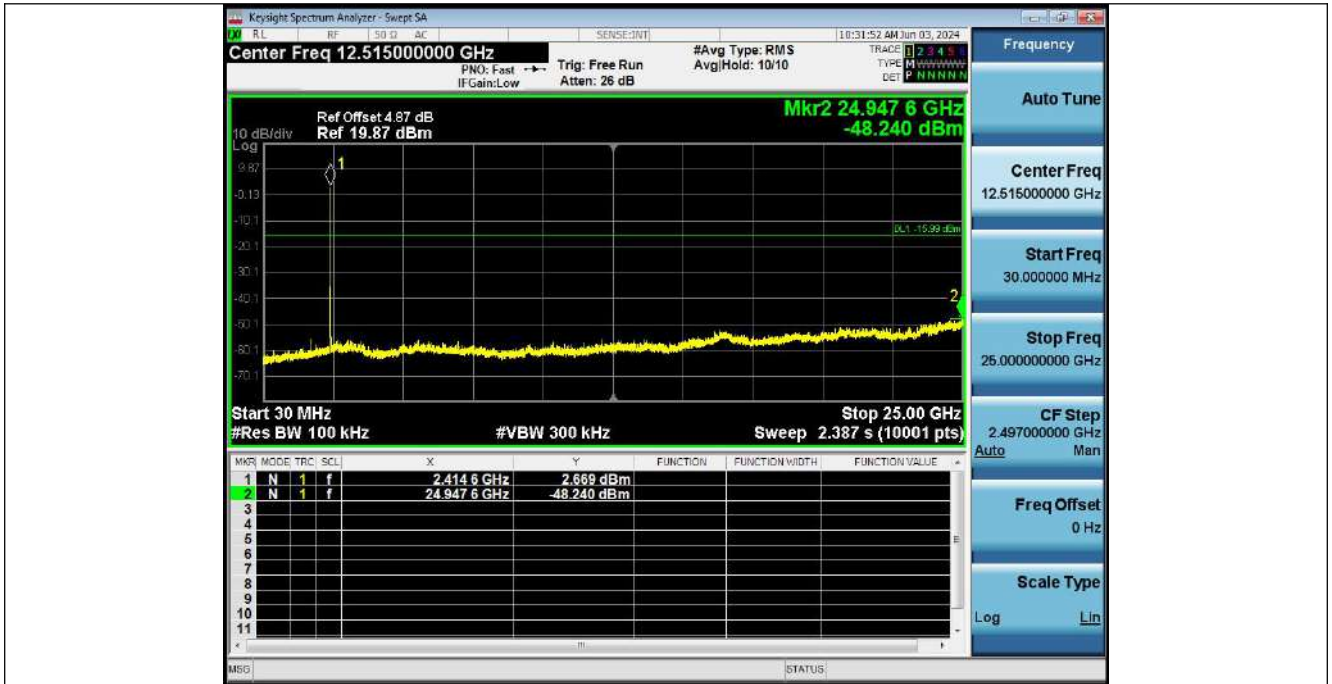
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24947.563	-48.240	-15.993	Pass
NVNT	ANT1	802.11b	2437.00	24922.593	-47.936	-15.112	Pass
NVNT	ANT1	802.11b	2462.00	826.543	-39.857	-15.359	Pass
NVNT	ANT1	802.11g	2412.00	24338.295	-56.031	-23.005	Pass
NVNT	ANT1	802.11g	2437.00	24945.066	-59.636	-22.466	Pass
NVNT	ANT1	802.11g	2462.00	24950.060	-54.777	-21.953	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24962.545	-55.427	-22.978	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24982.521	-60.196	-22.266	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	704.190	-53.051	-21.308	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24313.325	-63.040	-24.738	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24967.539	-62.077	-25.191	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	898.956	-48.882	-25.364	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



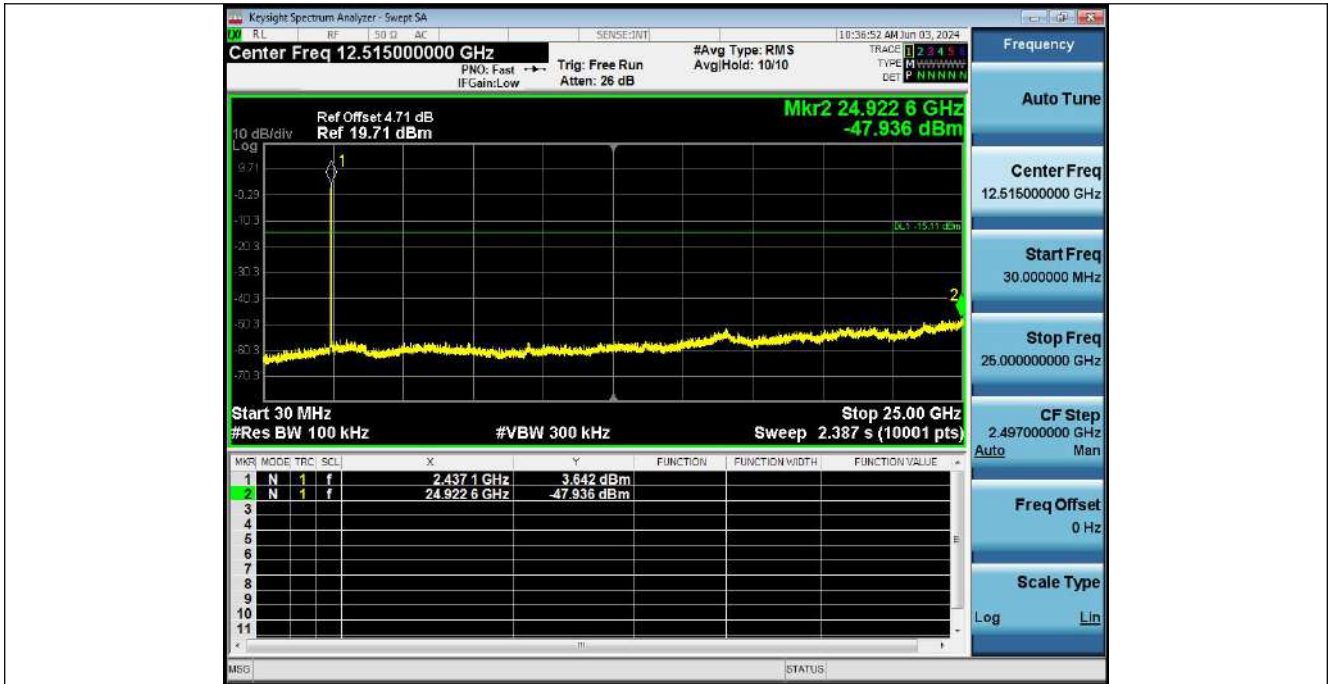
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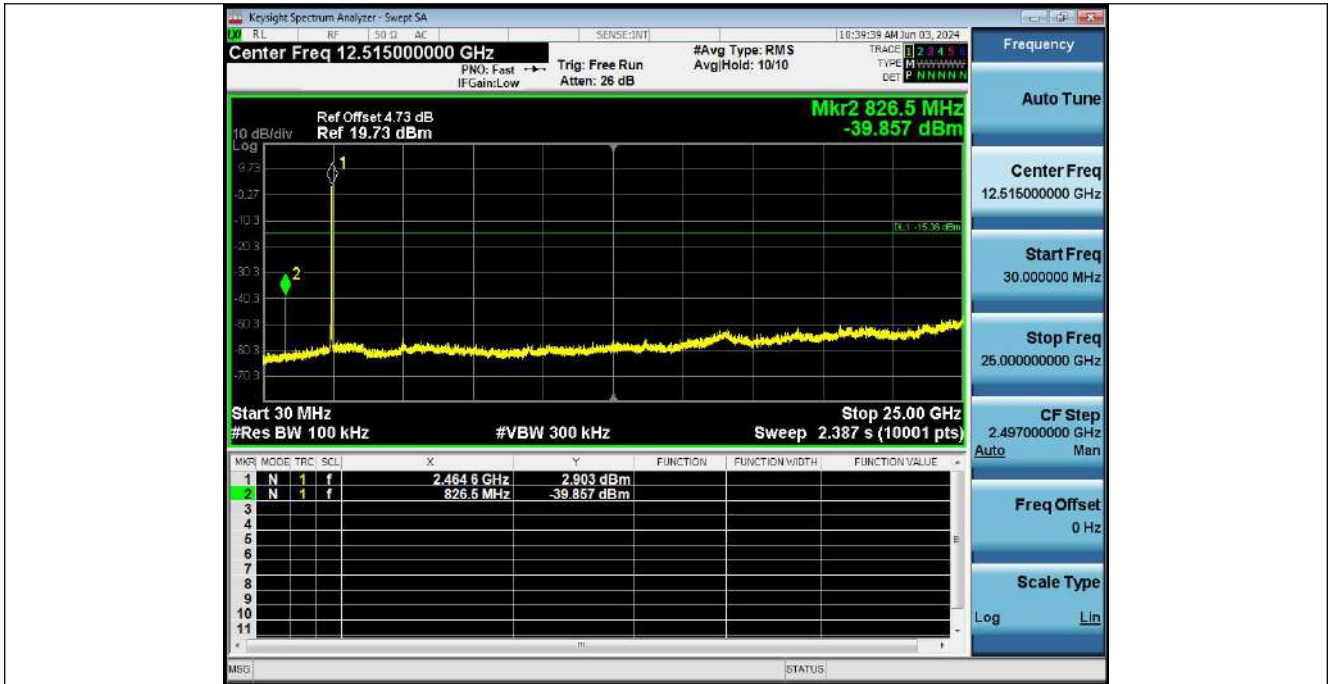
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1 Reference Level NVNT ANT1 802 11b 2462



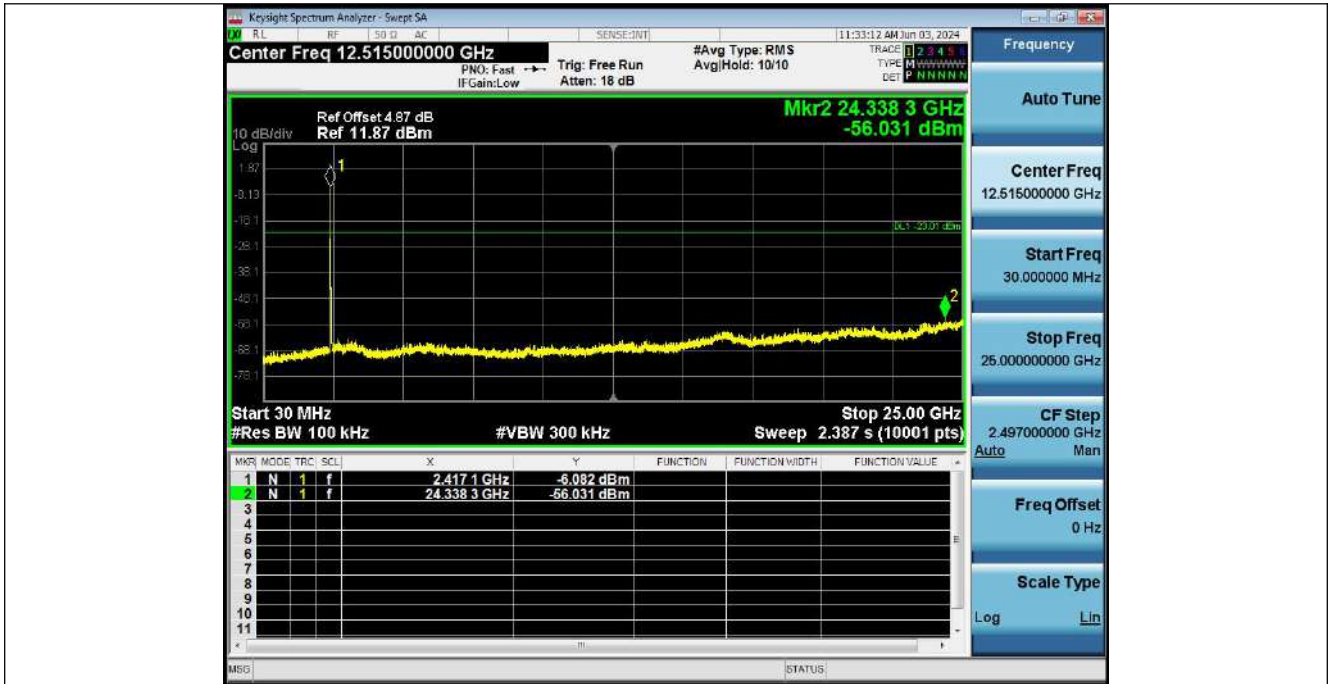
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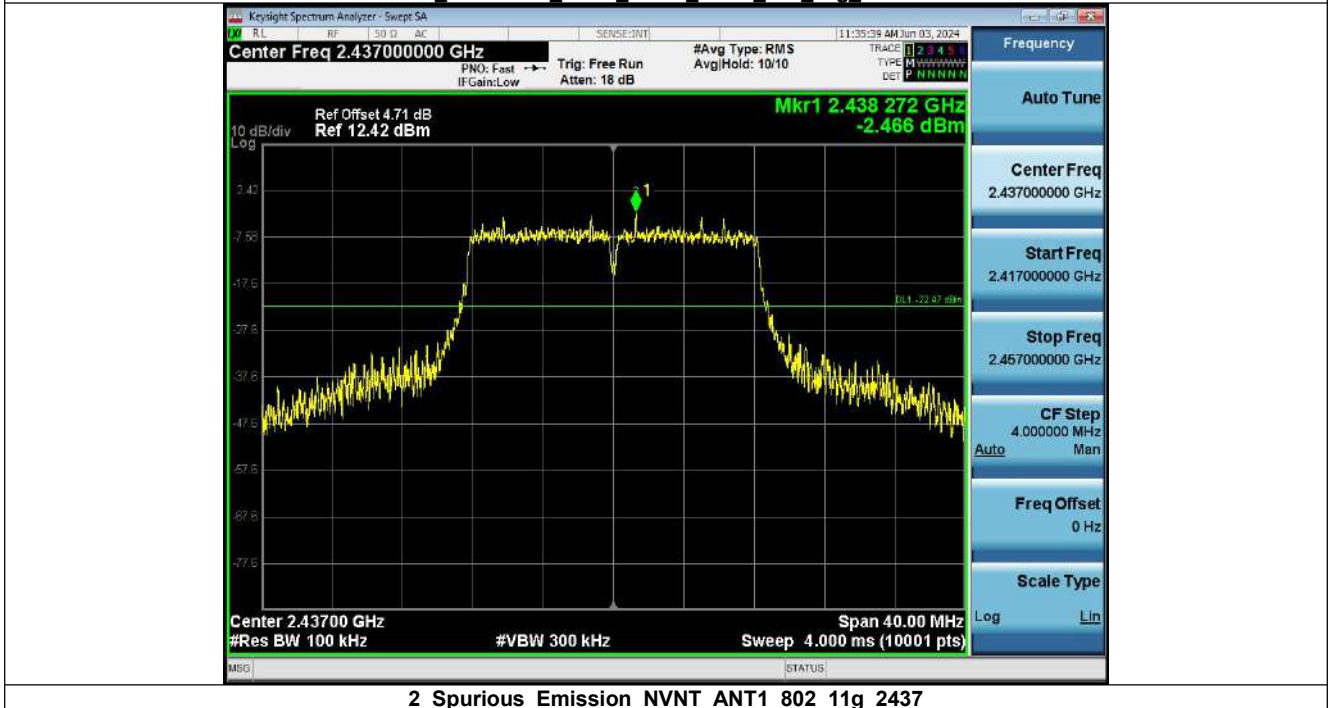
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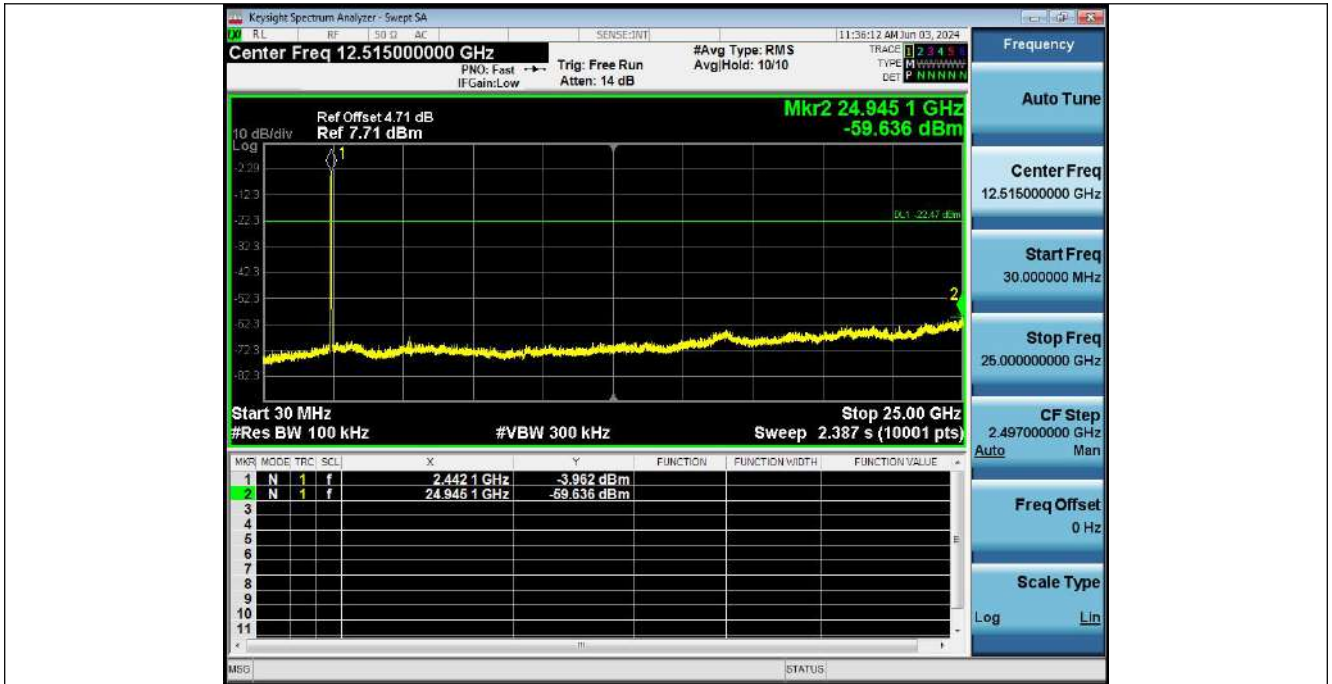
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1 Reference Level NVNT_ANT1_802_11g_2437



2 Spurious Emission NVNT_ANT1_802_11g_2437



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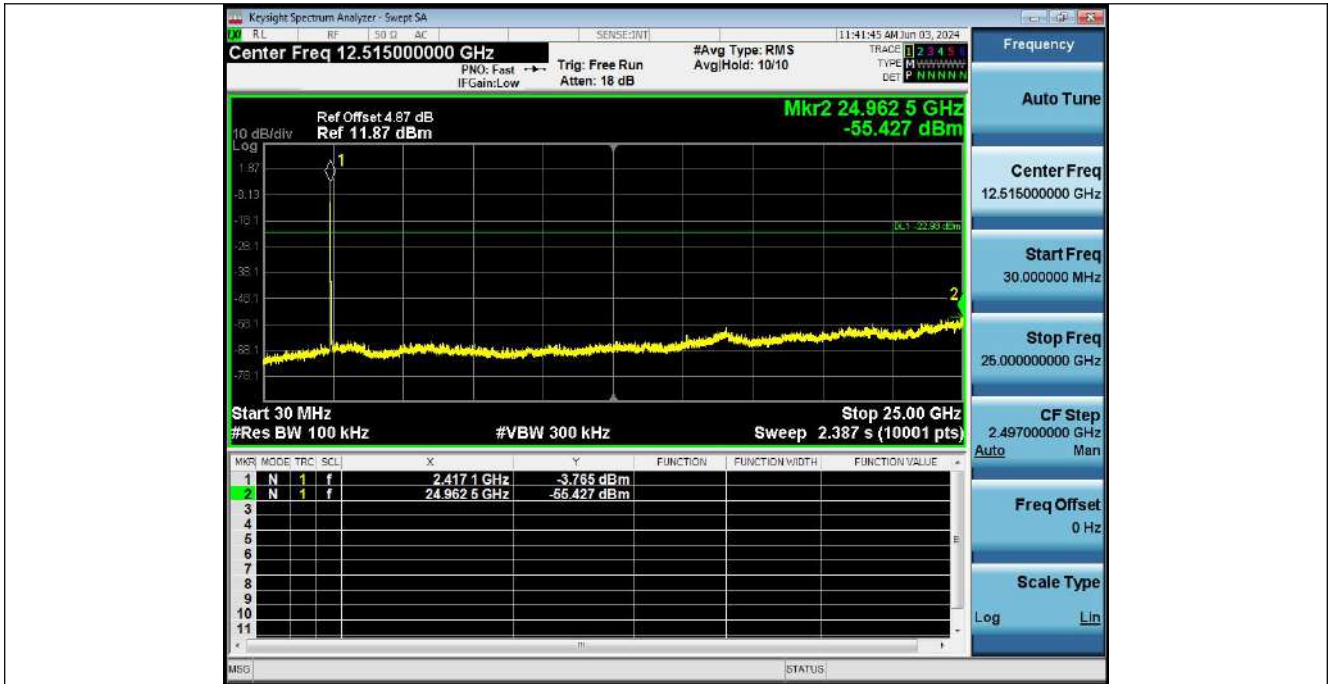




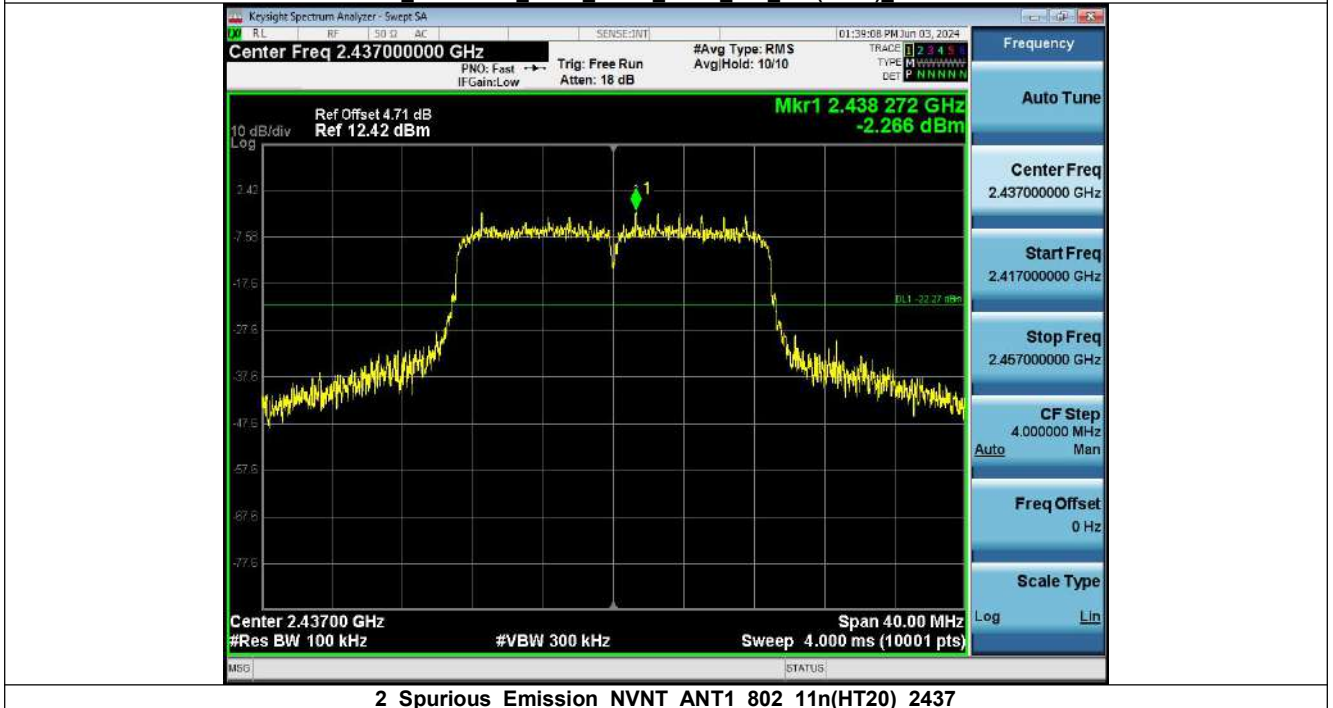
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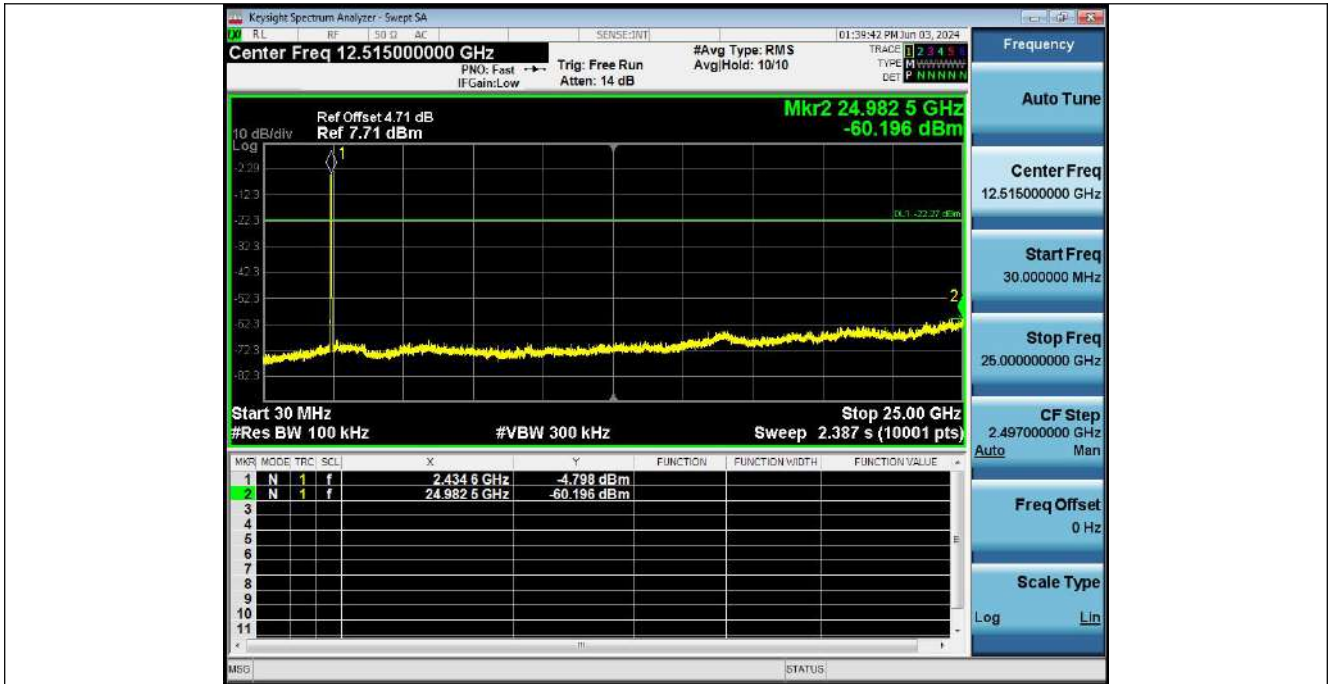
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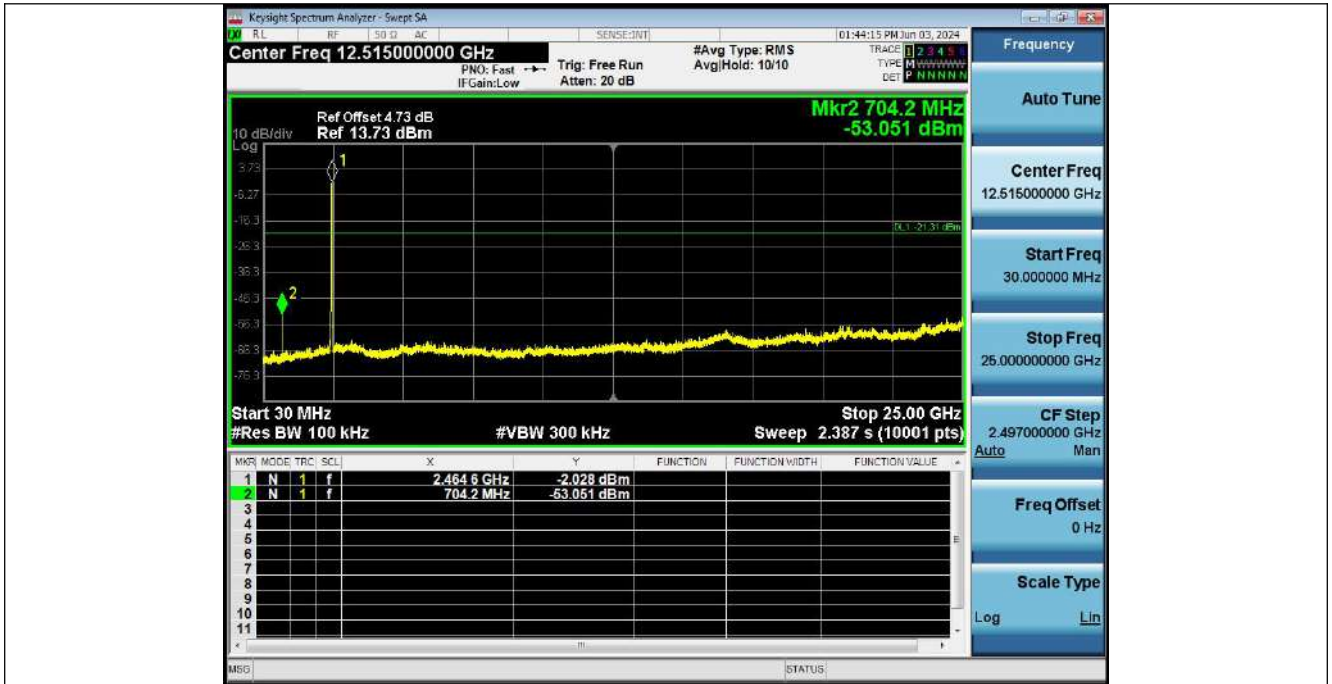


2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



1 Reference Level NVNT ANT1 802 11n(HT20) 2462





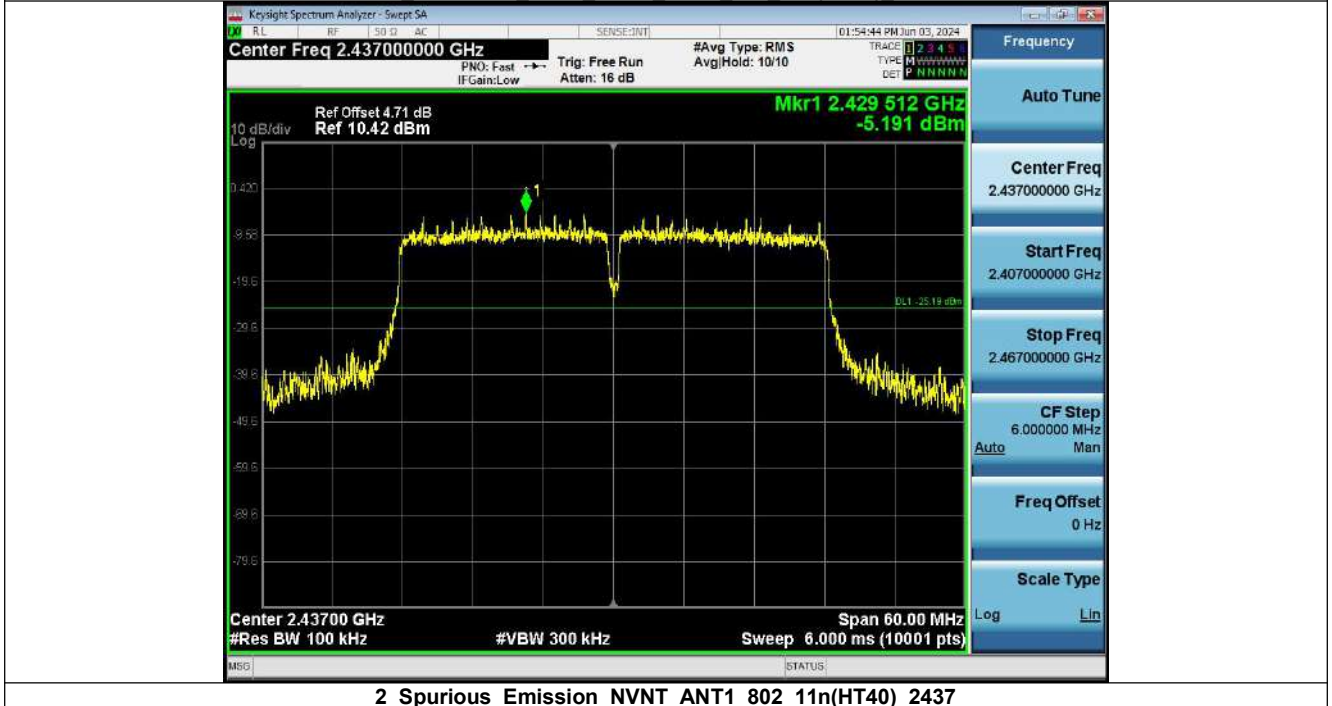
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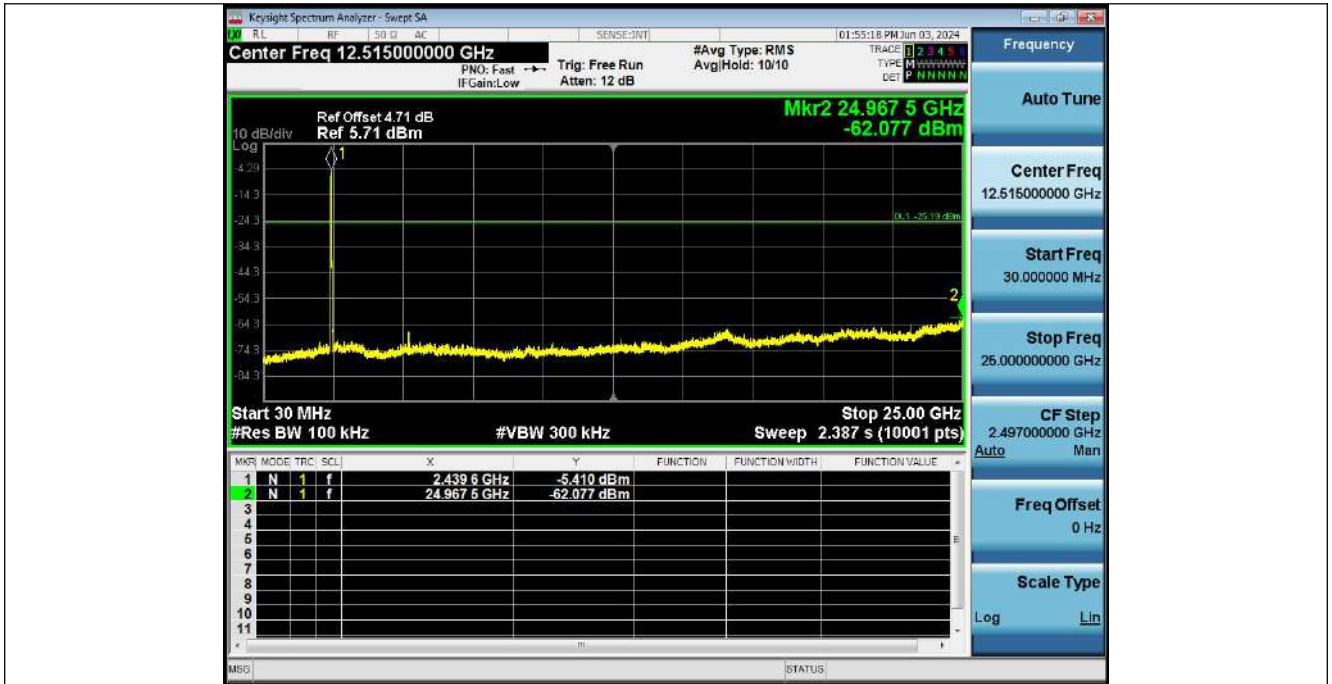
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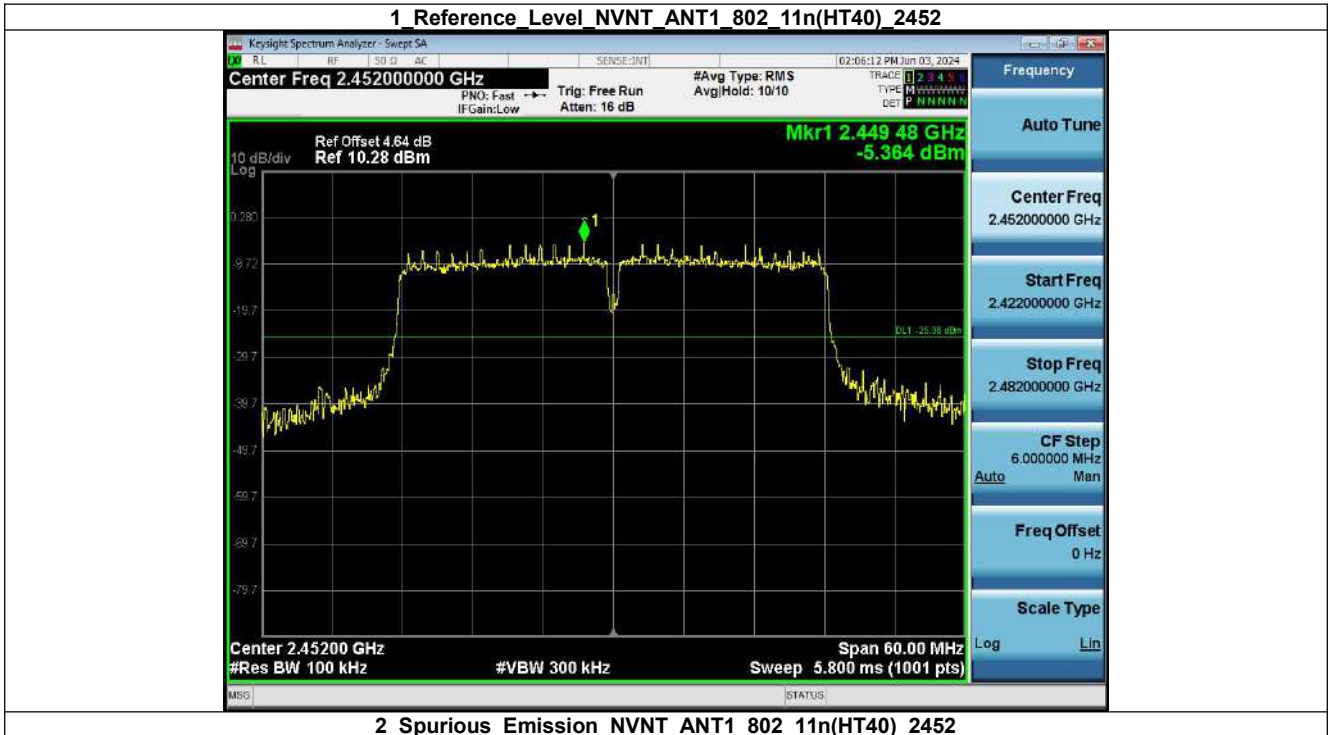
1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2437



1 Reference Level NVNT_ANT1_802_11n(HT40)_2452



2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2452

