

Report No.: NCT25035814E1-2

FCC ID:2BR65-G27F

FCC_2.4G_WIFI (Part15.247) Test Data

Table of Contents

1. -6dB Bandwidth	3
2. 99% Occupied Bandwidth	10
3. Duty Cycle	17
4. MAX. Output Power	24
5. Power Spectral Density	25
6. Bandedge	32
7. Spurious Emission	40

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	9.15	500	Pass
NVNT	ANT1	802.11b	2462.00	9.22	500	Pass
NVNT	ANT1	802.11g	2412.00	16.47	500	Pass
NVNT	ANT1	802.11g	2437.00	16.26	500	Pass
NVNT	ANT1	802.11g	2462.00	16.52	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.26	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.25	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.51	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.12	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.75	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.88	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



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-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	11.952
NVNT	ANT1	802.11b	2437.00	12.084
NVNT	ANT1	802.11b	2462.00	12.051
NVNT	ANT1	802.11g	2412.00	17.199
NVNT	ANT1	802.11g	2437.00	18.221
NVNT	ANT1	802.11g	2462.00	17.543
NVNT	ANT1	802.11n(HT20)	2412.00	17.800
NVNT	ANT1	802.11n(HT20)	2437.00	18.062
NVNT	ANT1	802.11n(HT20)	2462.00	18.119
NVNT	ANT1	802.11n(HT40)	2422.00	36.764
NVNT	ANT1	802.11n(HT40)	2437.00	36.380
NVNT	ANT1	802.11n(HT40)	2452.00	36.517



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

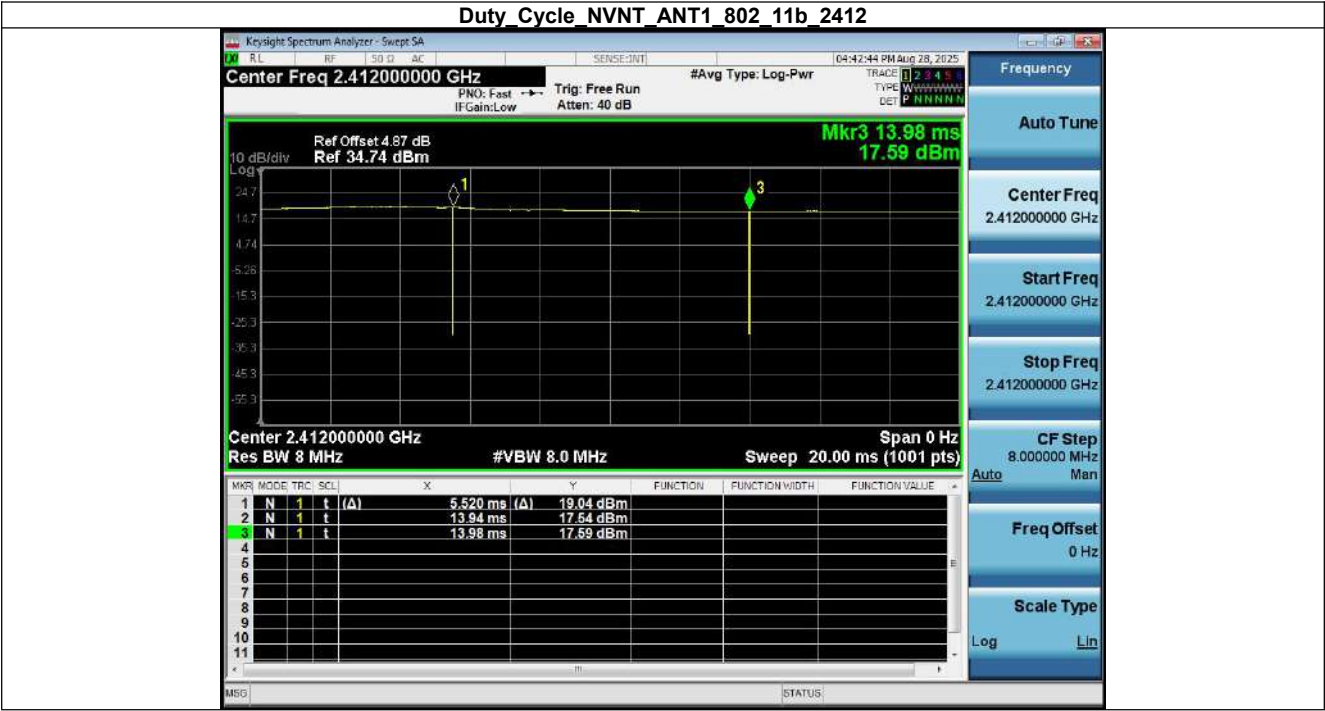


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

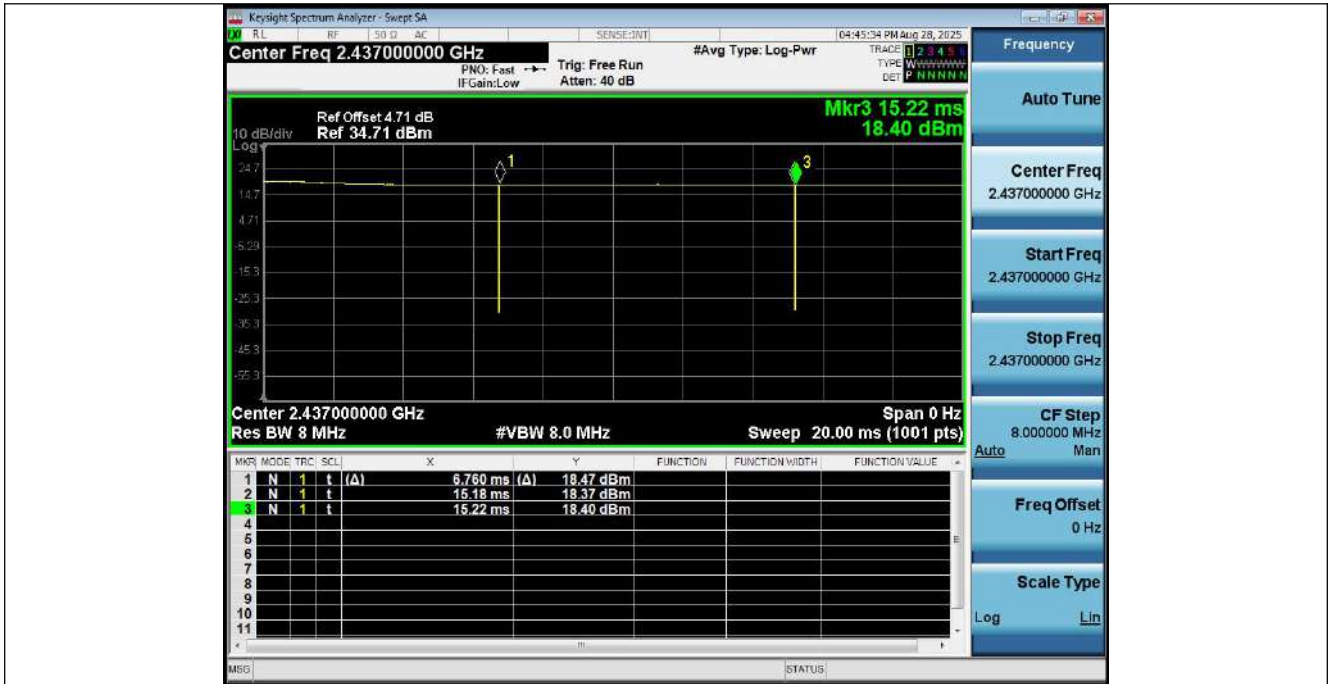


3. Duty Cycle

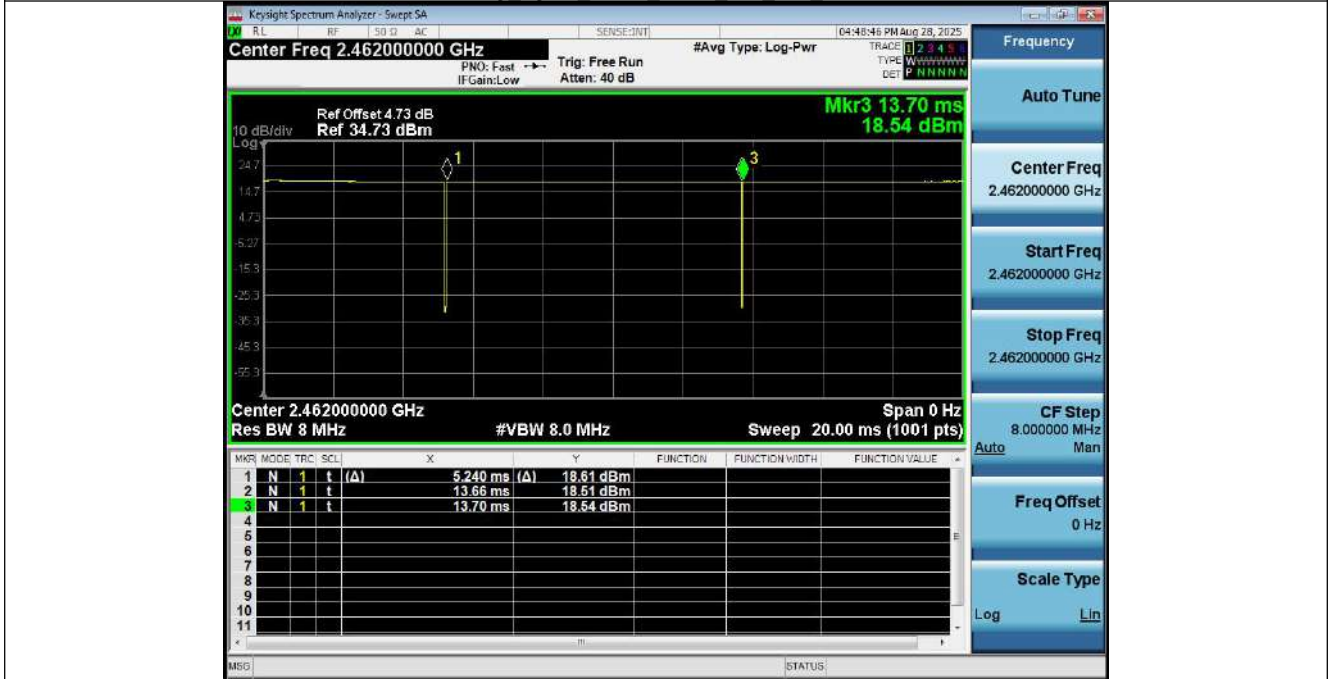
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NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	97.22	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14
NVNT	ANT1	802.11n(HT40)	2422.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



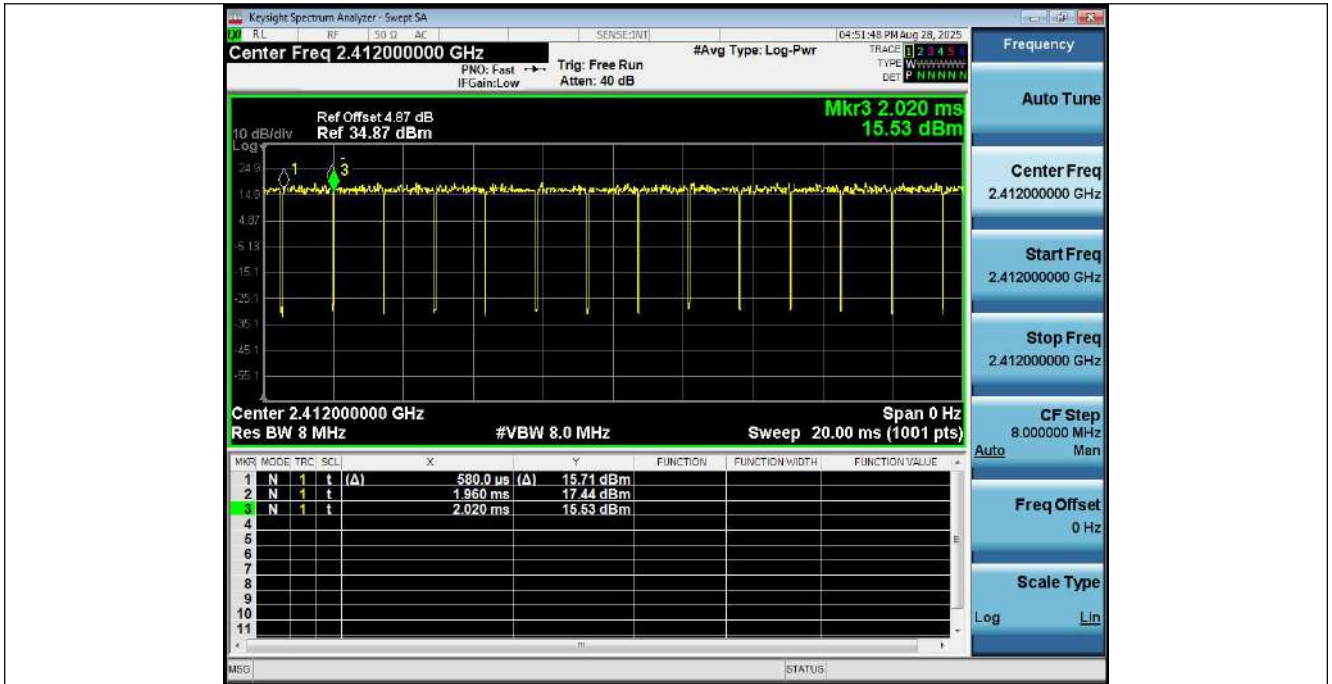
Duty Cycle NVNT ANT1 802 11b 2437



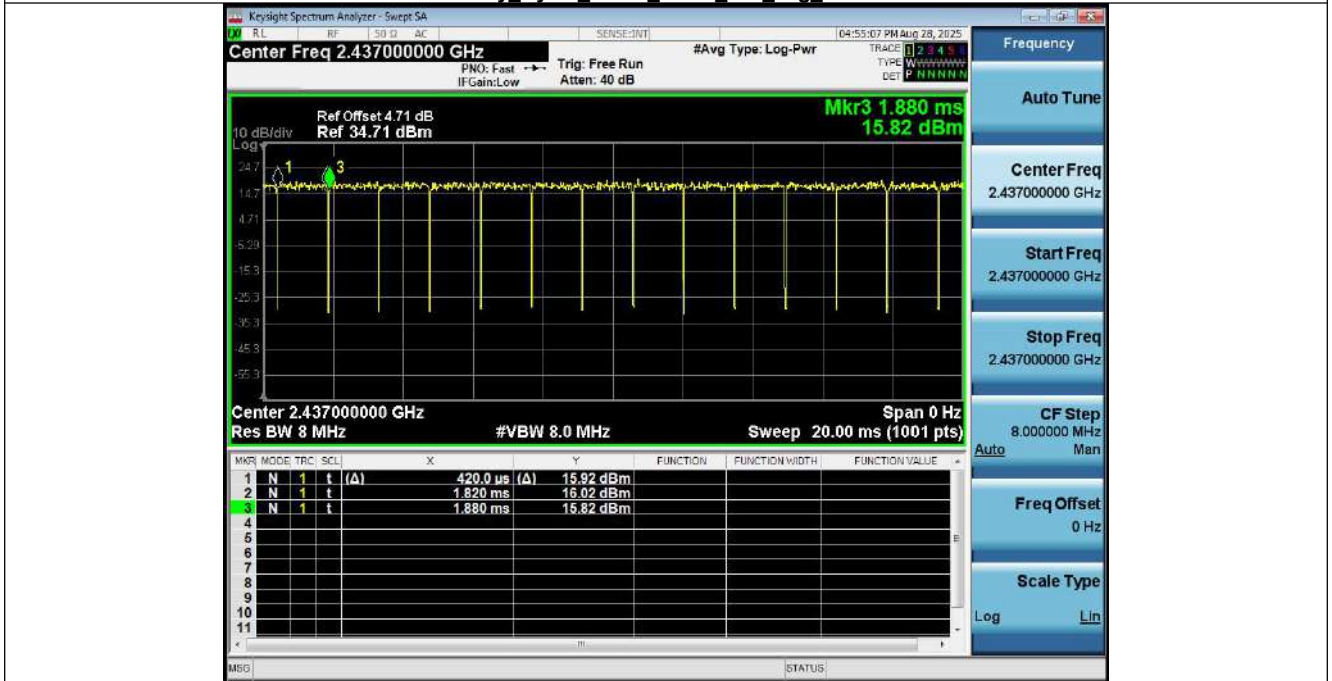
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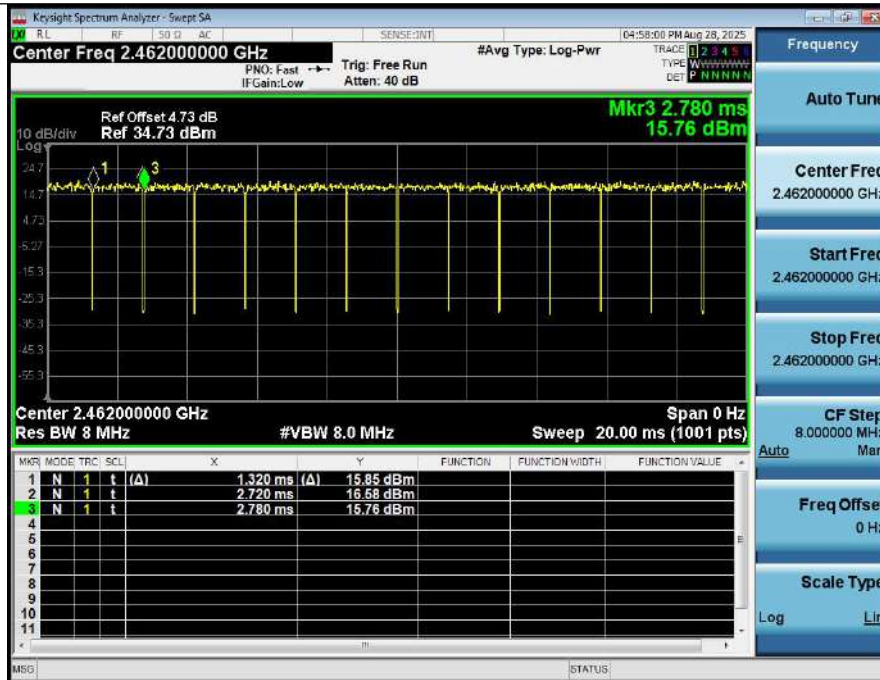
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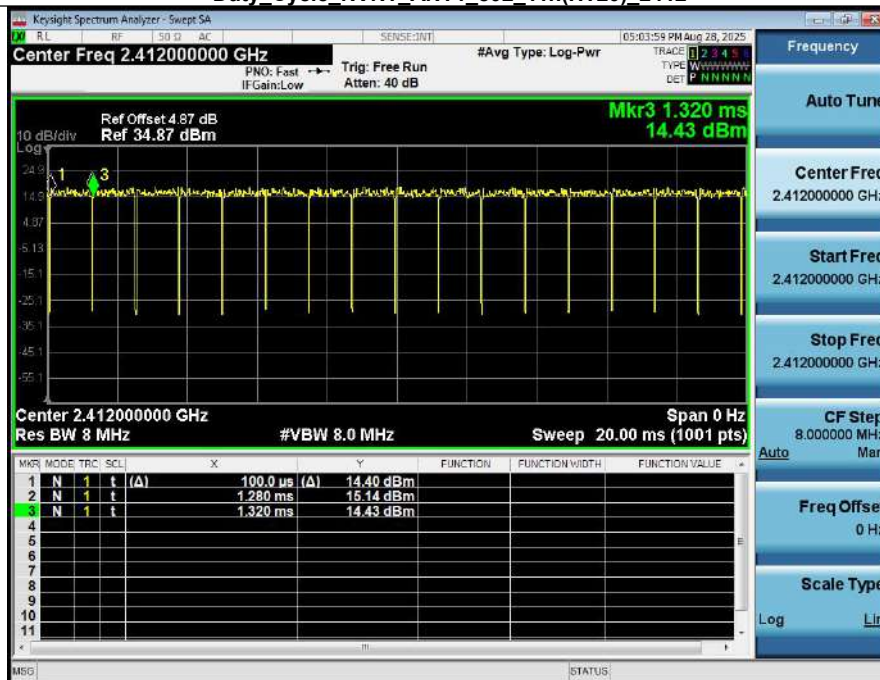
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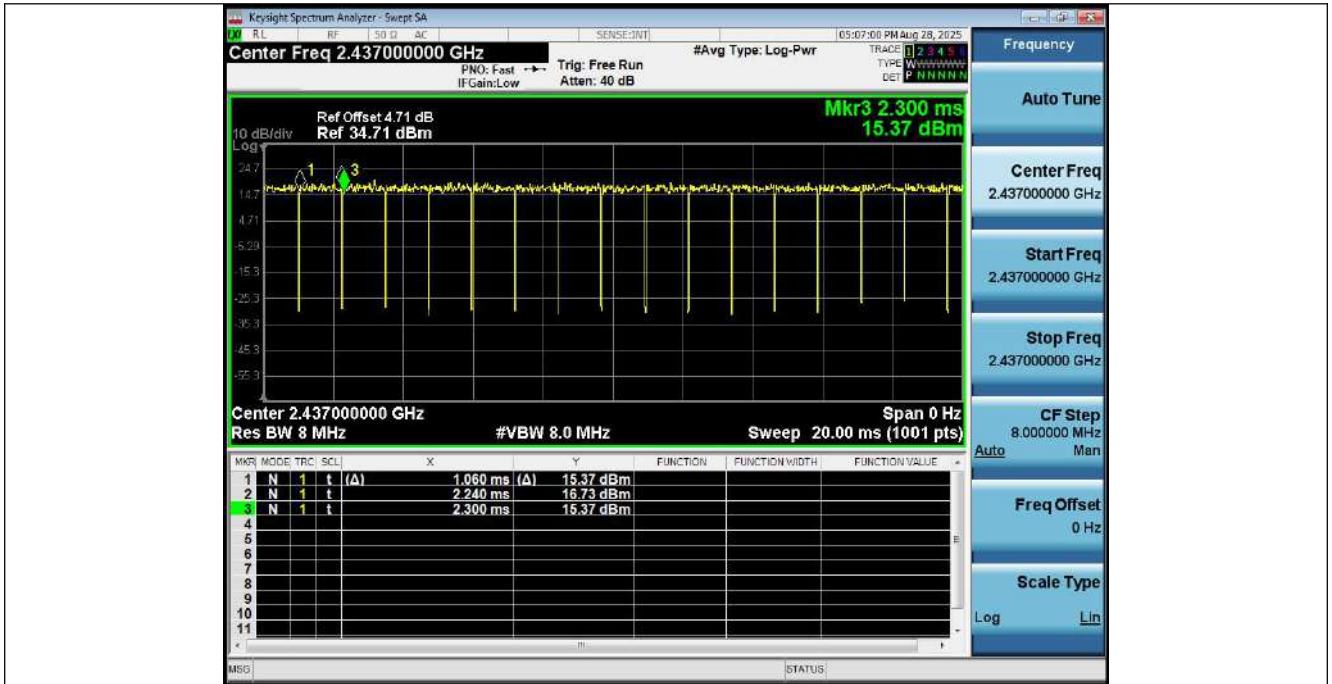
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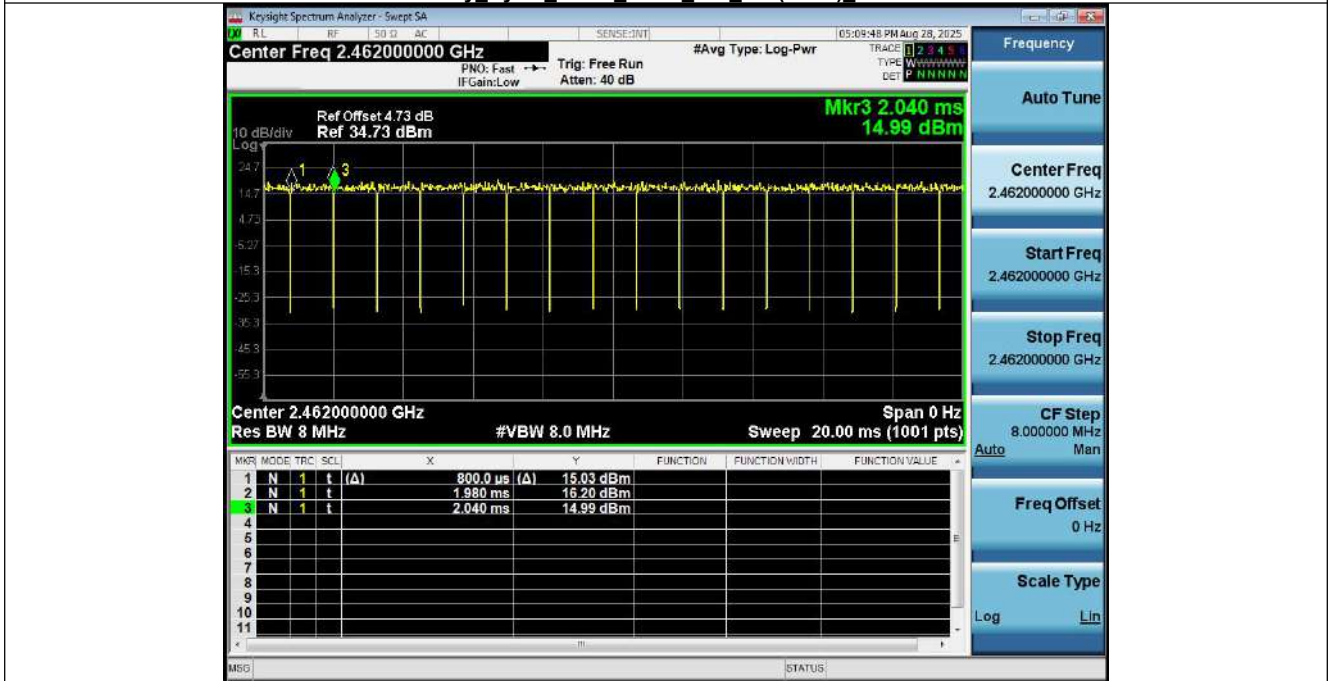
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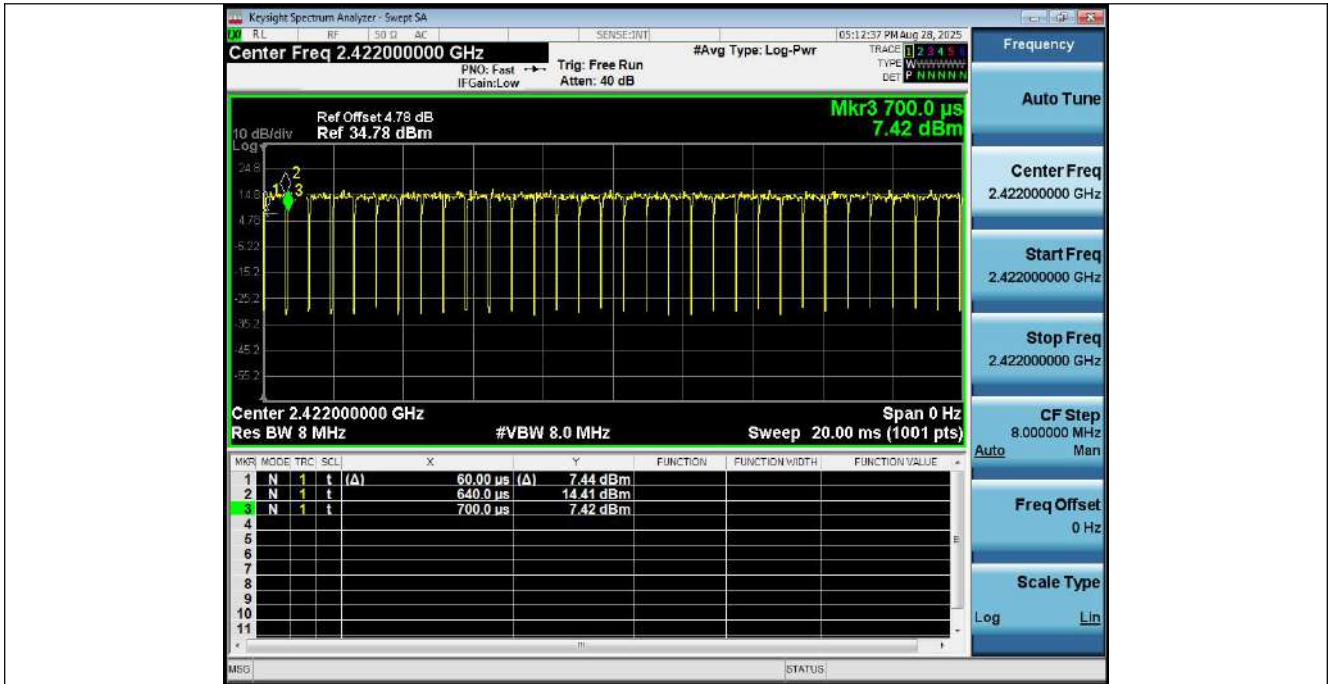
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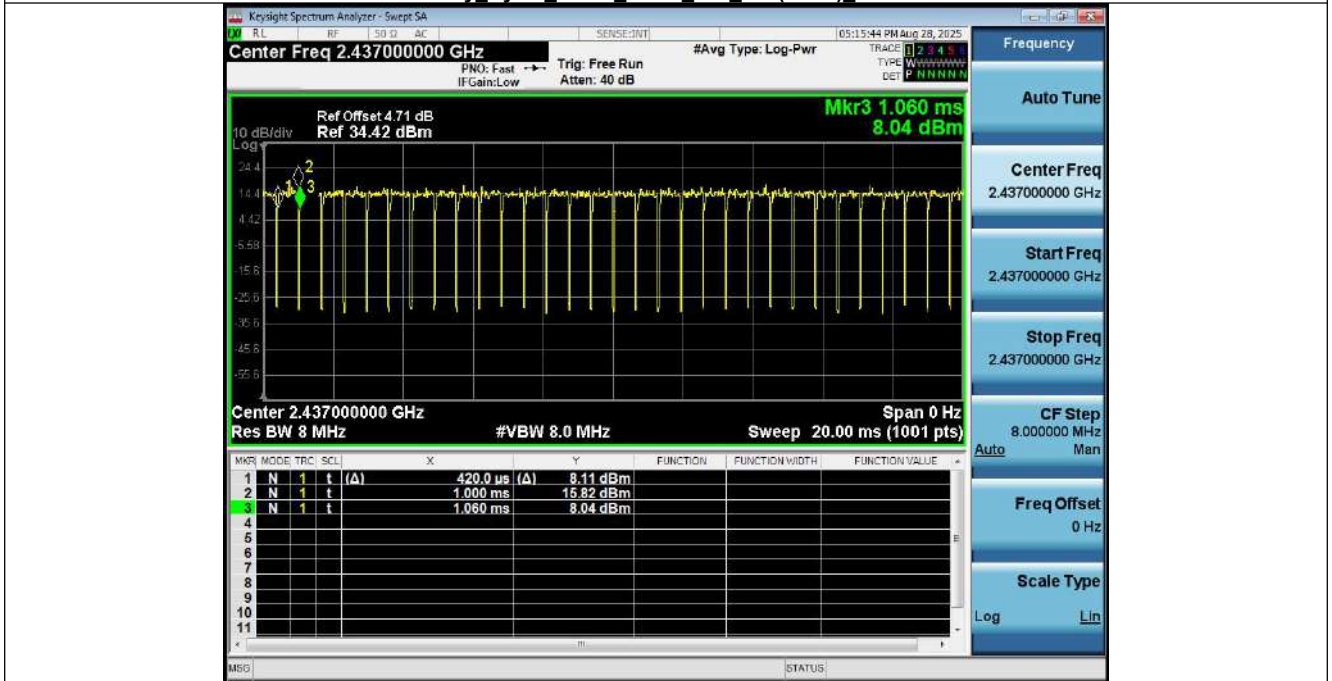
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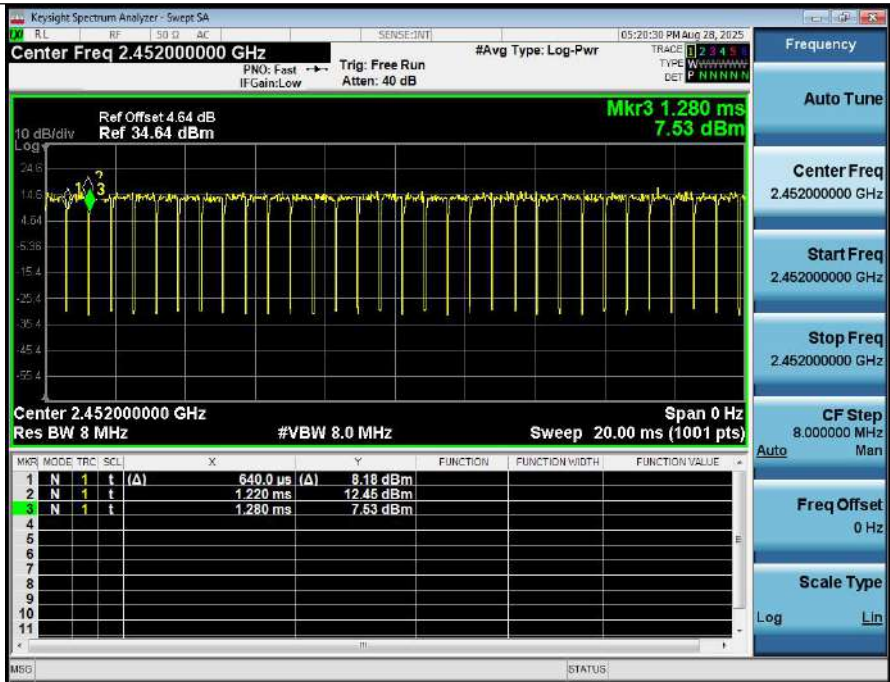
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	16.68	N/A	16.68	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	17.44	N/A	17.44	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.65	N/A	17.65	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	19.49	N/A	19.49	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	20.39	N/A	20.39	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	20.72	N/A	20.72	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	19.75	N/A	19.75	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	20.62	N/A	20.62	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	20.87	N/A	20.87	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	20.81	N/A	20.81	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	20.68	N/A	20.68	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	20.41	N/A	20.41	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/3kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	2.84	N/A	-10.00	-7.16	8	Pass
NVNT	ANT1	802.11b	2437.00	6.00	N/A	-10.00	-4.00	8	Pass
NVNT	ANT1	802.11b	2462.00	4.82	N/A	-10.00	-5.18	8	Pass
NVNT	ANT1	802.11g	2412.00	-2.95	N/A	-10.00	-12.95	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.50	N/A	-10.00	-11.50	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.80	N/A	-10.00	-11.80	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.49	N/A	-10.00	-13.49	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-2.25	N/A	-10.00	-12.25	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.36	N/A	-10.00	-12.36	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-5.98	N/A	-10.00	-15.98	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-5.29	N/A	-10.00	-15.29	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-5.68	N/A	-10.00	-15.68	8	Pass



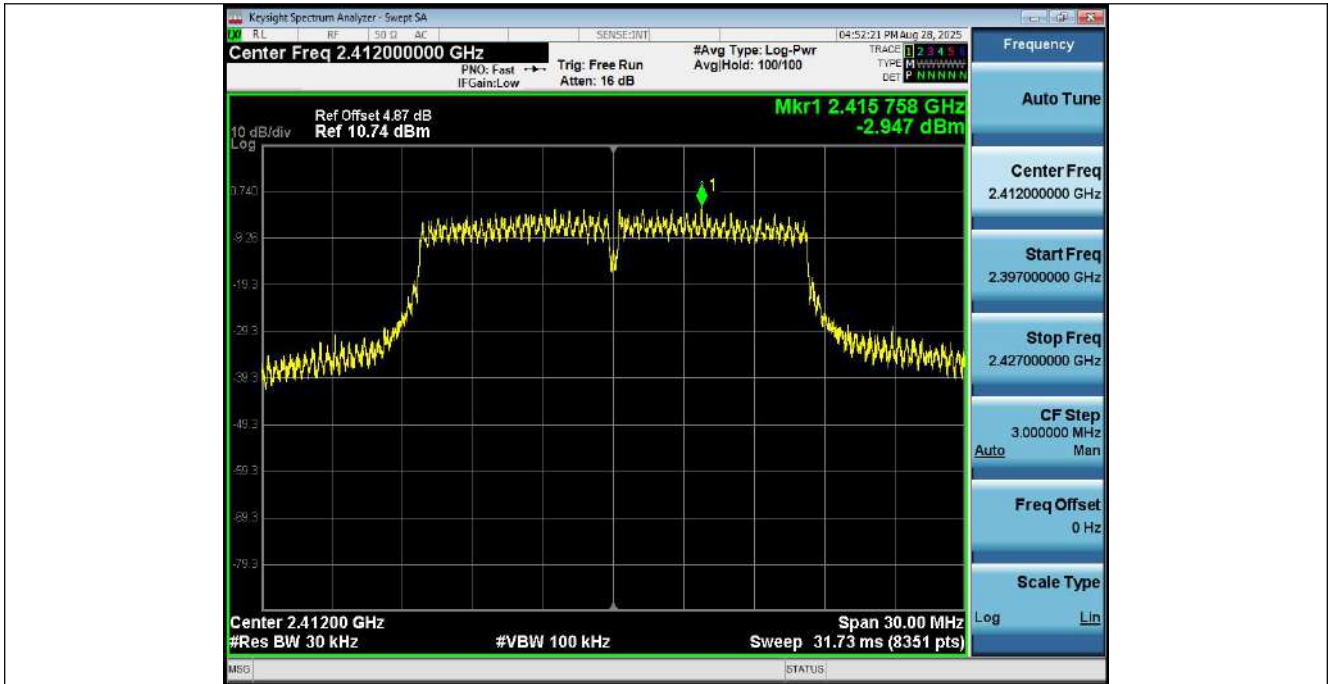
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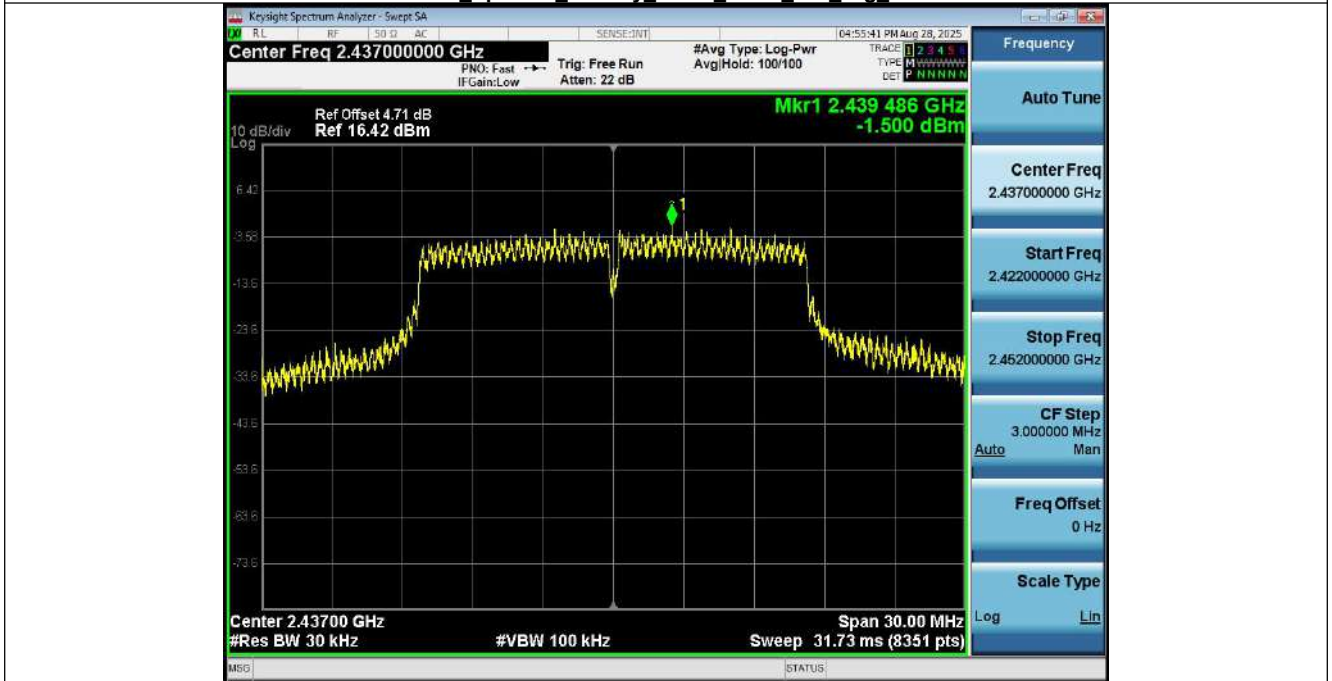
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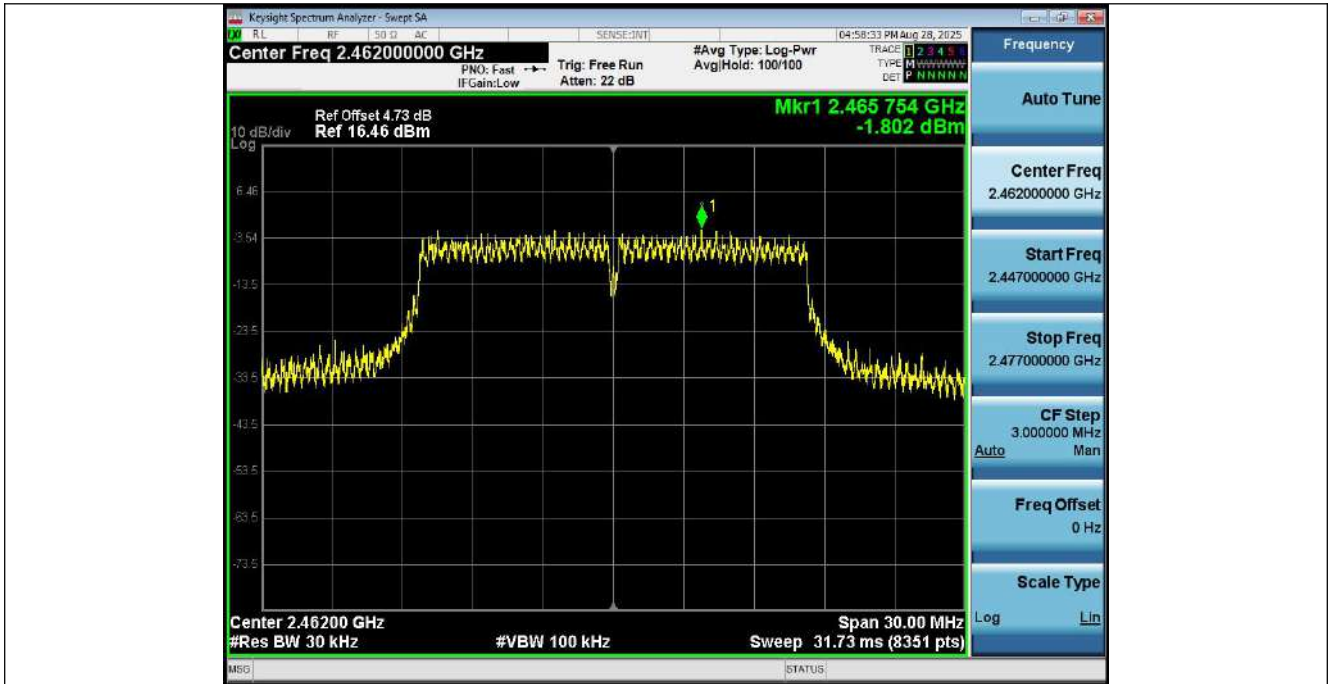
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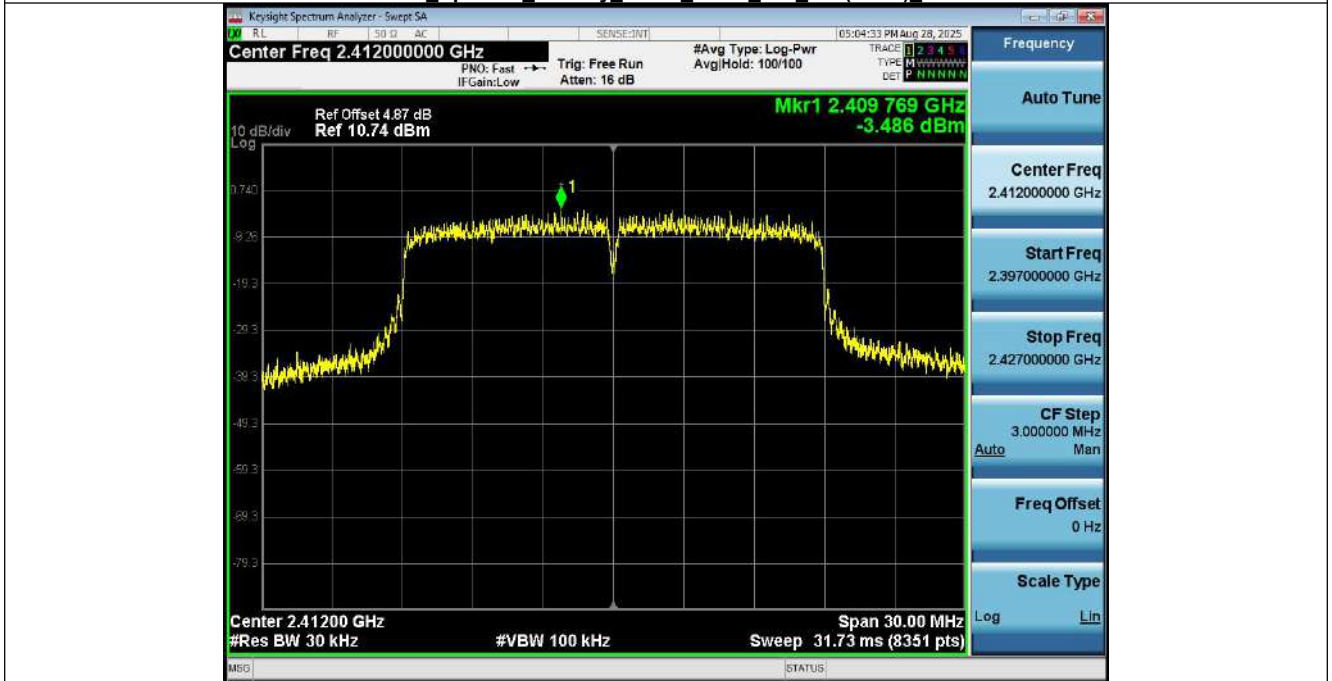
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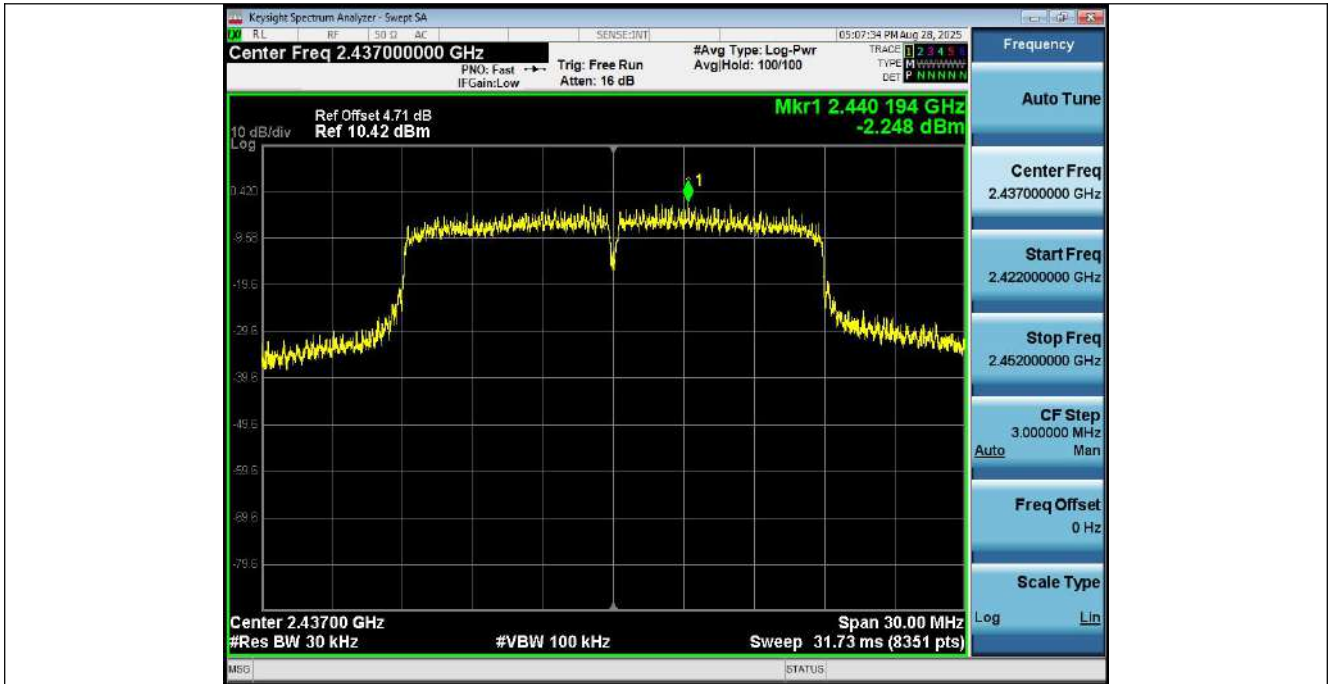
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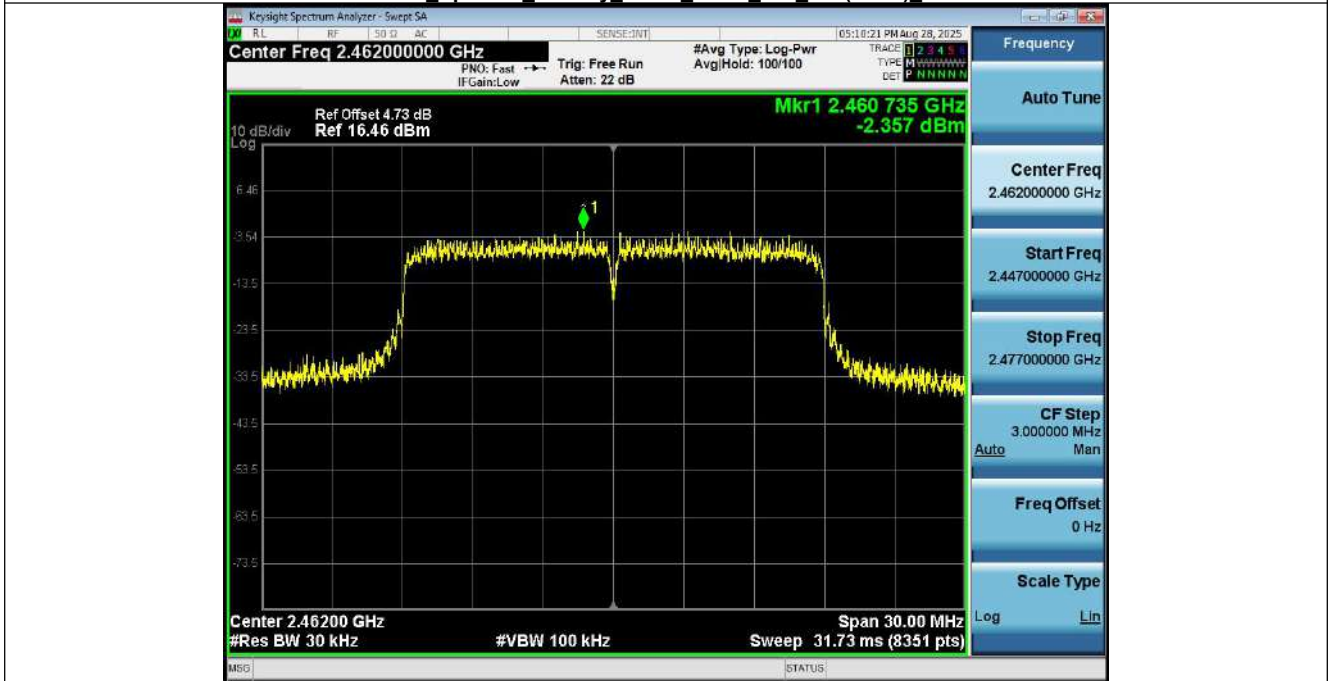
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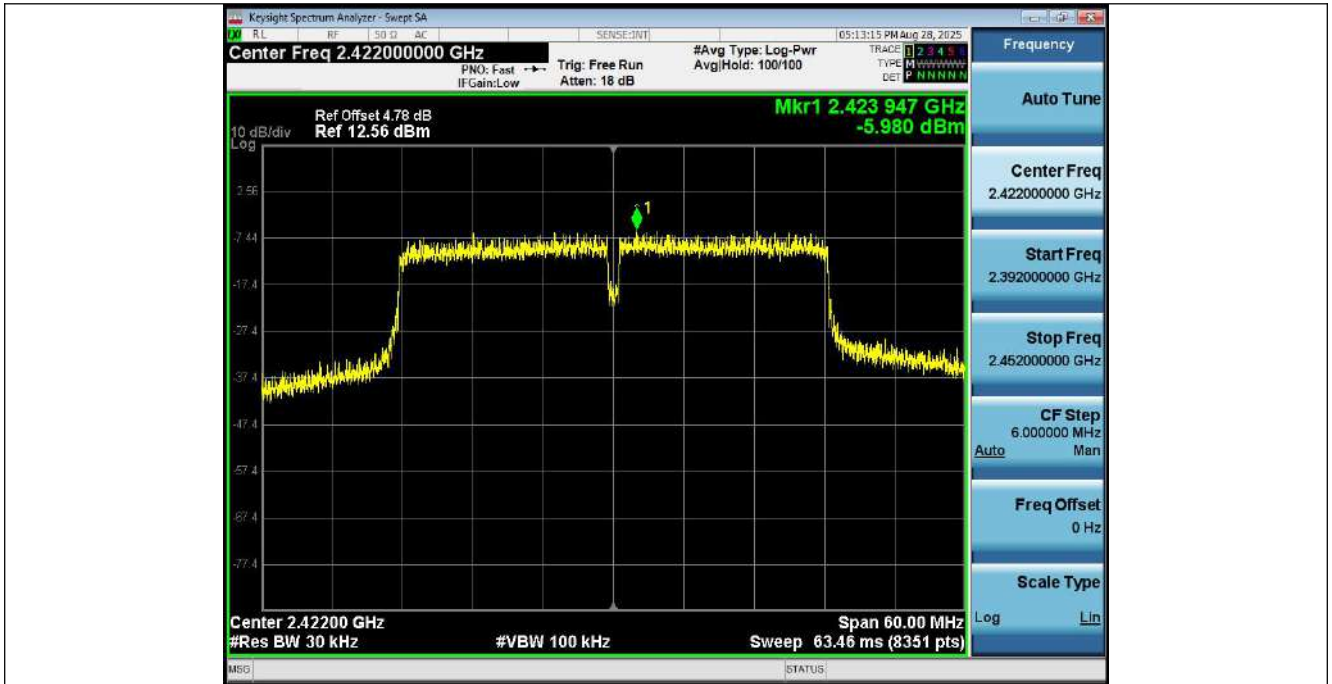
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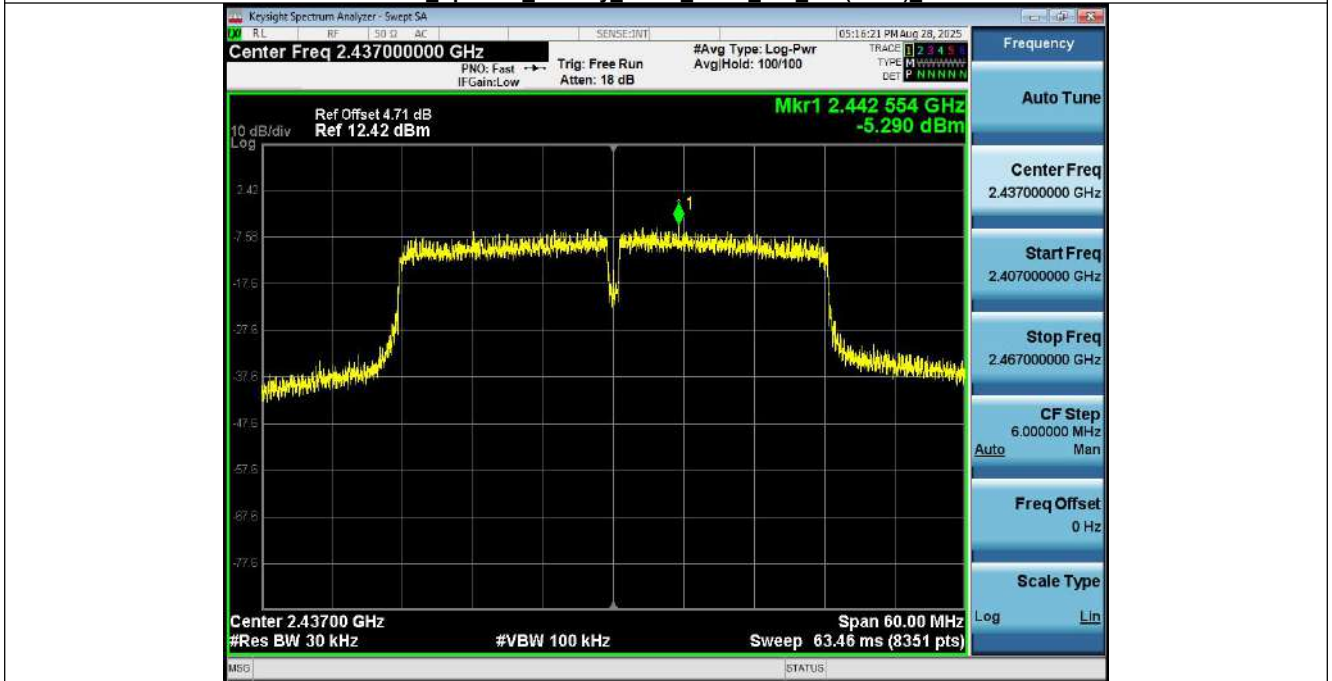
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



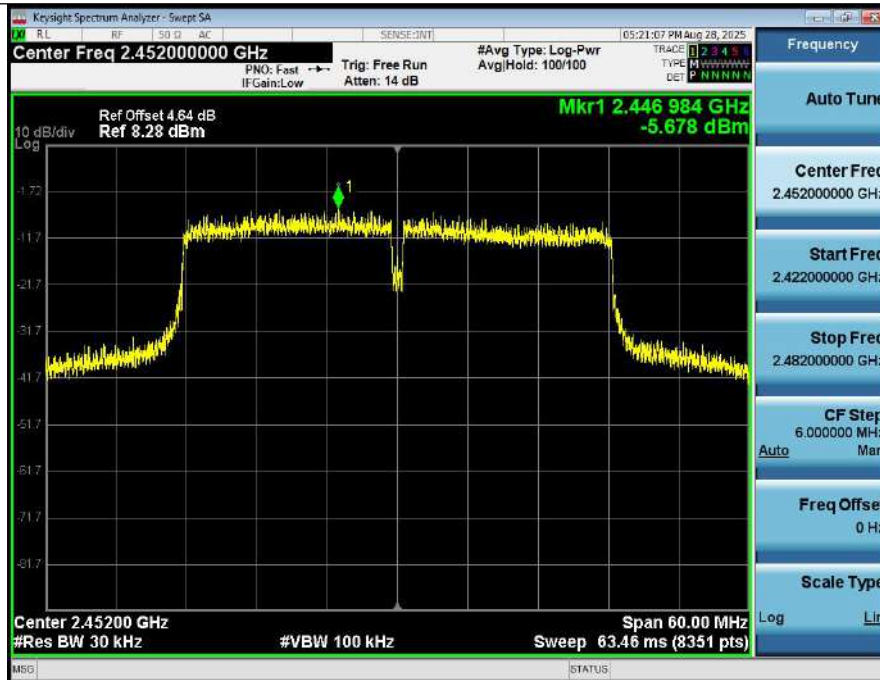
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	5.555	-36.458	-14.445	Pass
NVNT	ANT1	802.11b	2462.00	2483.872	6.297	-54.881	-13.703	Pass
NVNT	ANT1	802.11g	2412.00	2398.592	2.005	-28.773	-17.995	Pass
NVNT	ANT1	802.11g	2462.00	2484.256	2.619	-36.595	-17.381	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.928	1.081	-29.530	-18.919	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.632	1.866	-36.720	-18.134	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2398.176	-0.665	-29.768	-20.665	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.952	-0.738	-35.689	-20.738	Pass



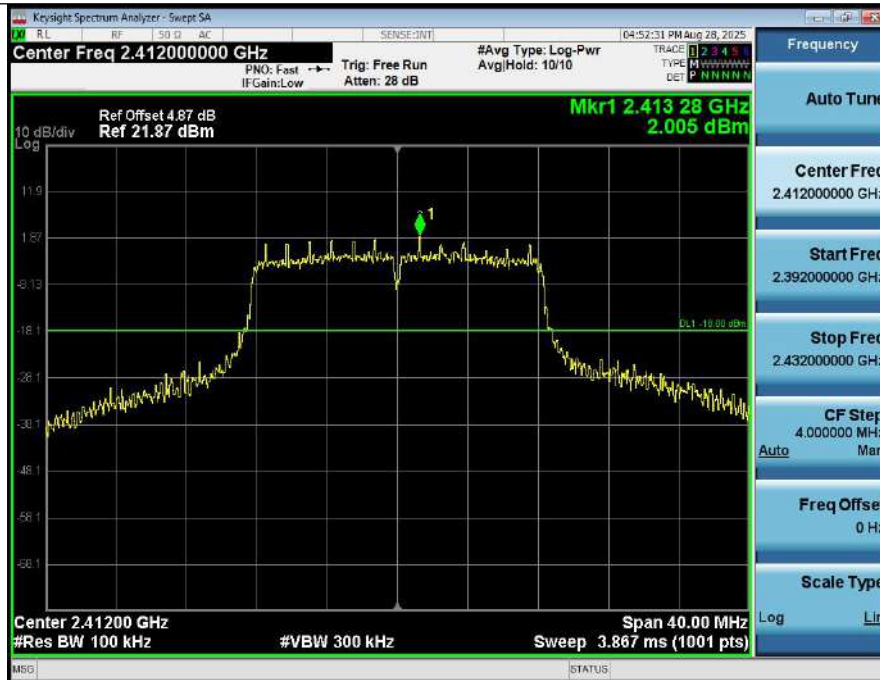
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2_Bandedge_NVNT_ANT1_802_11b_2462



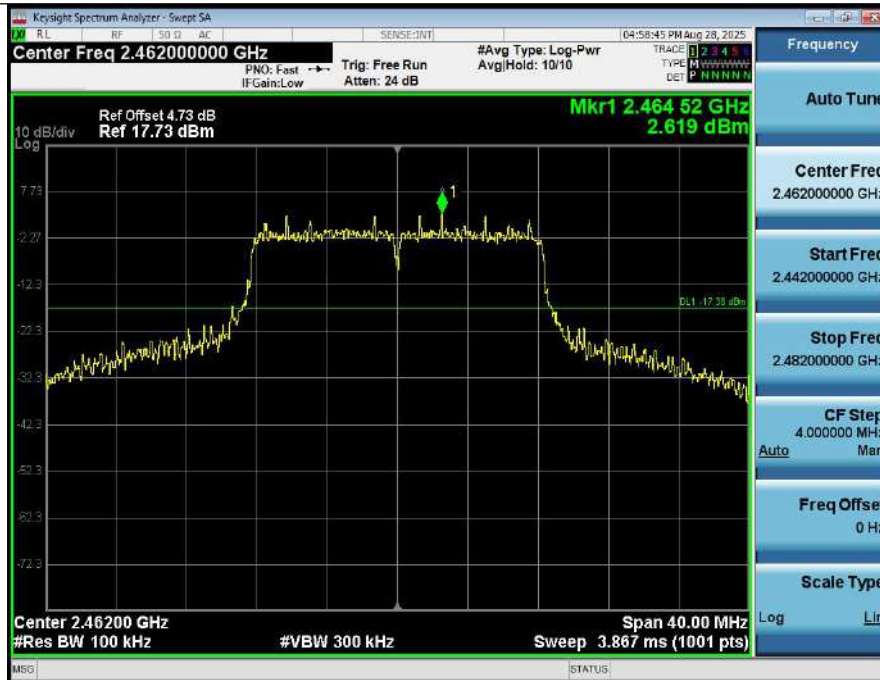
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2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



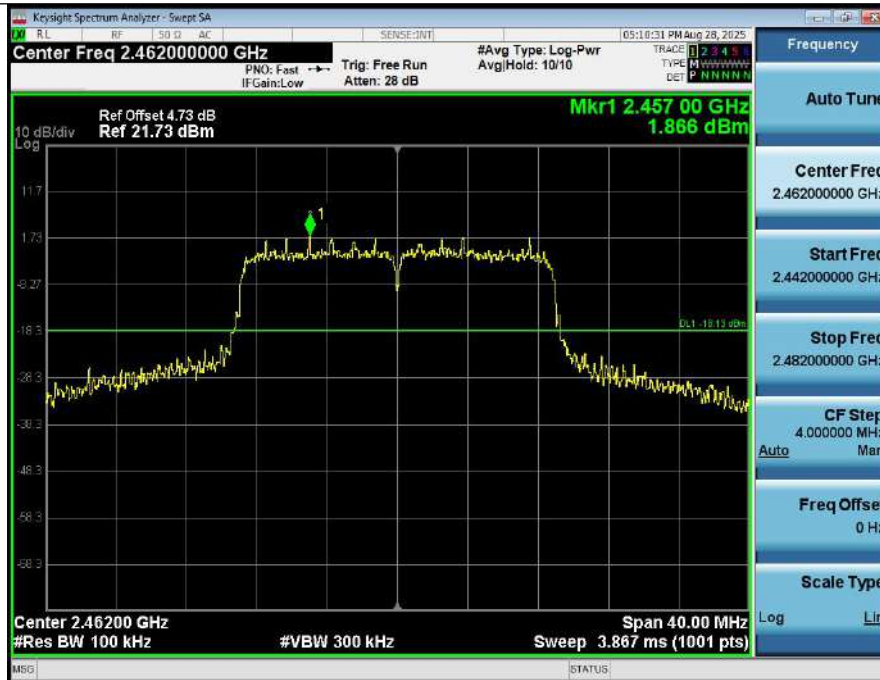
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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



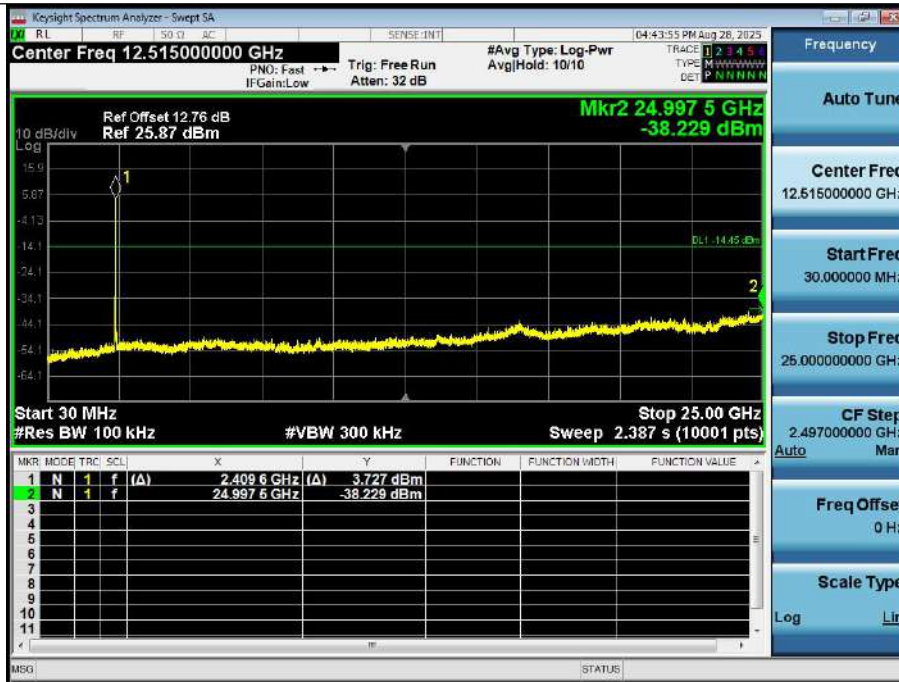
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24997.503	5.555	-38.229	-14.445	Pass
NVNT	ANT1	802.11b	2437.00	24995.006	6.242	-41.730	-13.758	Pass
NVNT	ANT1	802.11b	2462.00	24892.629	6.297	-43.353	-13.703	Pass
NVNT	ANT1	802.11g	2412.00	24965.042	2.005	-42.866	-17.995	Pass
NVNT	ANT1	802.11g	2437.00	24965.042	2.231	-47.416	-17.769	Pass
NVNT	ANT1	802.11g	2462.00	24972.533	2.619	-45.769	-17.381	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	903.950	1.081	-23.323	-18.919	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24715.342	2.173	-46.615	-17.827	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	908.944	1.866	-24.176	-18.134	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	25000.000	-0.665	-45.129	-20.665	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24972.533	-0.372	-44.612	-20.372	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24940.072	-0.738	-44.737	-20.738	Pass

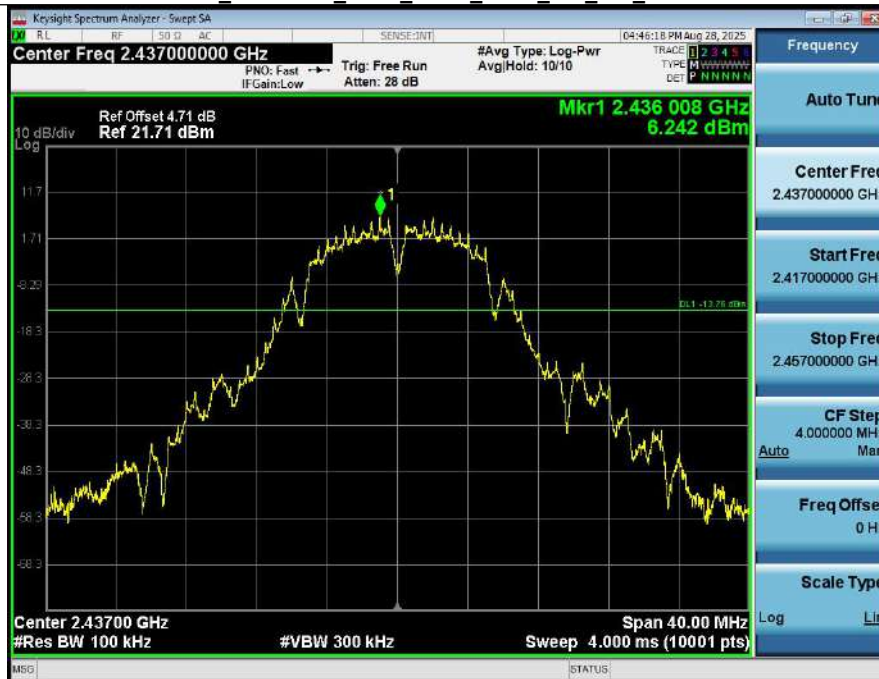
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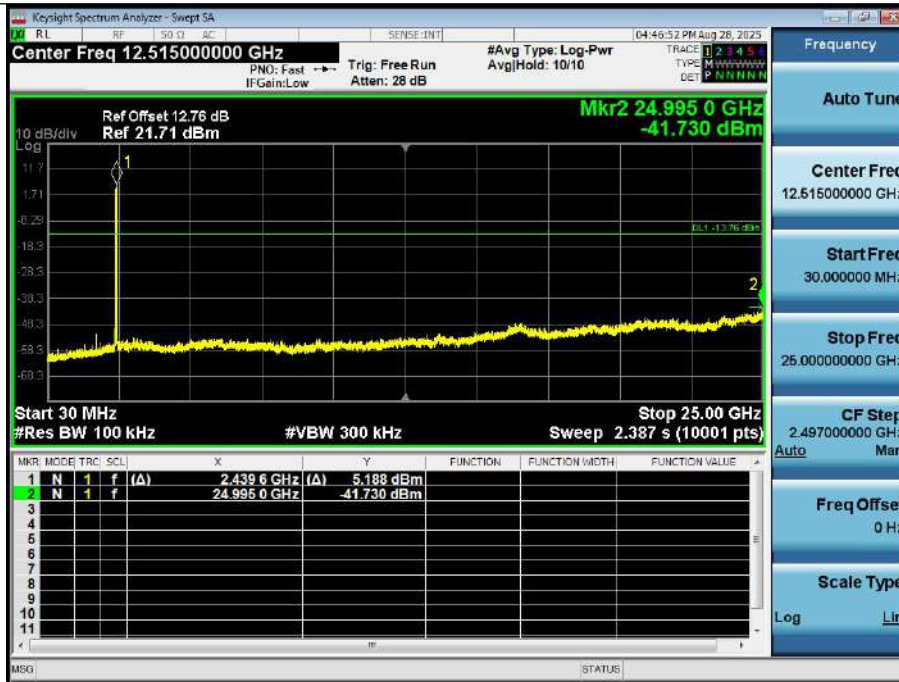
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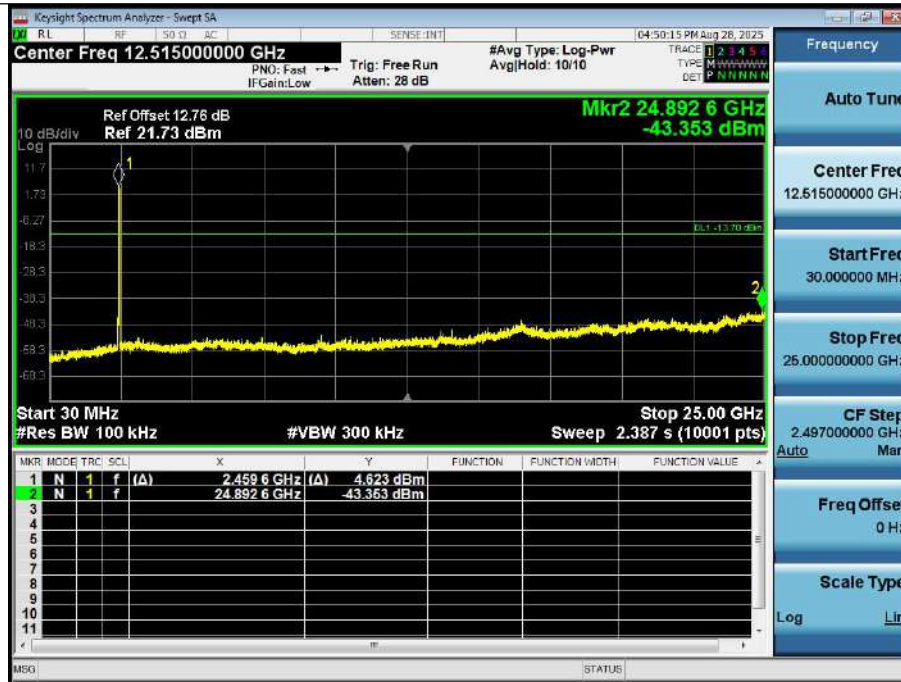
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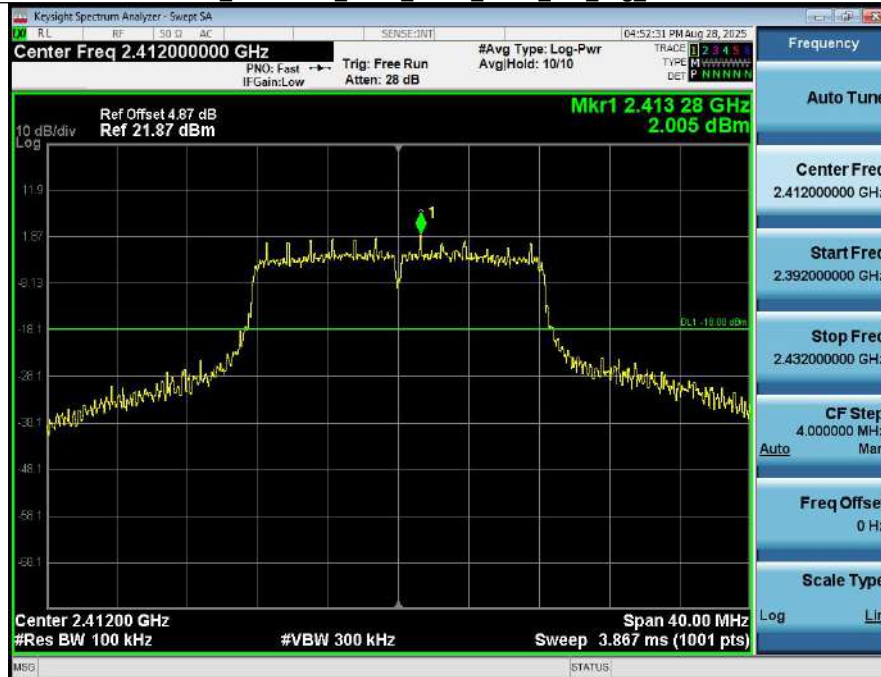
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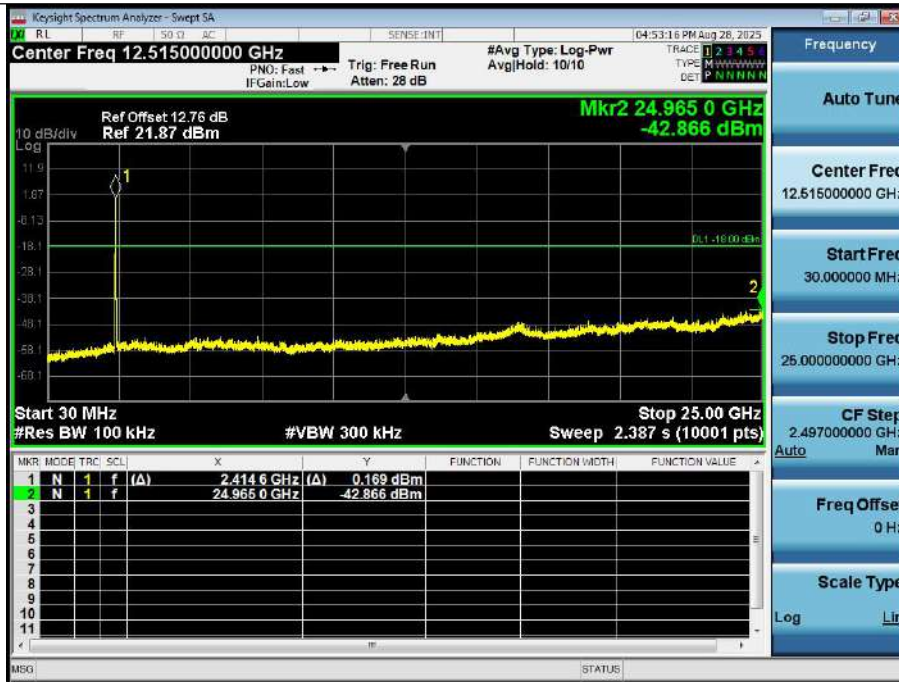
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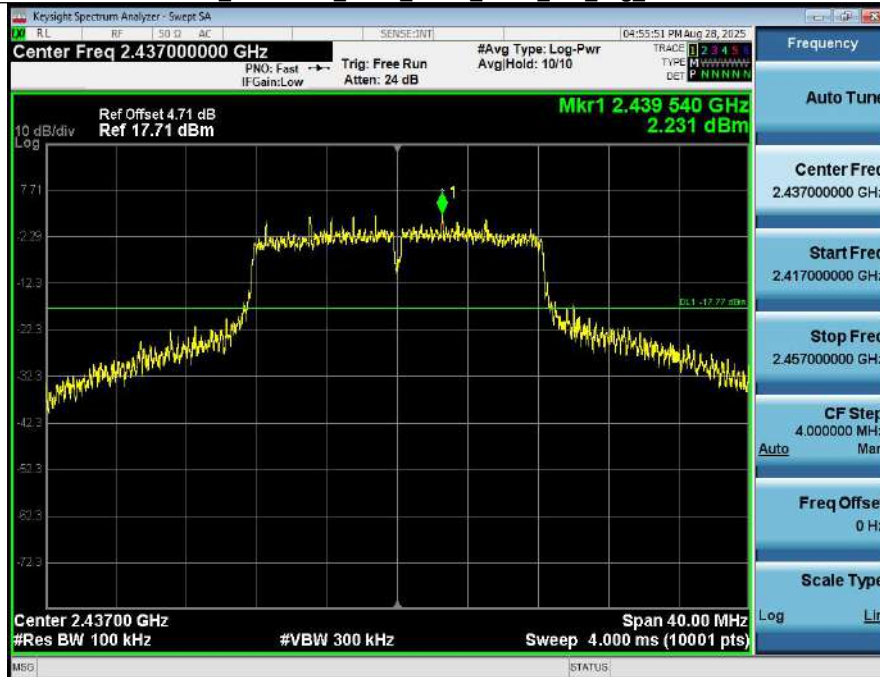
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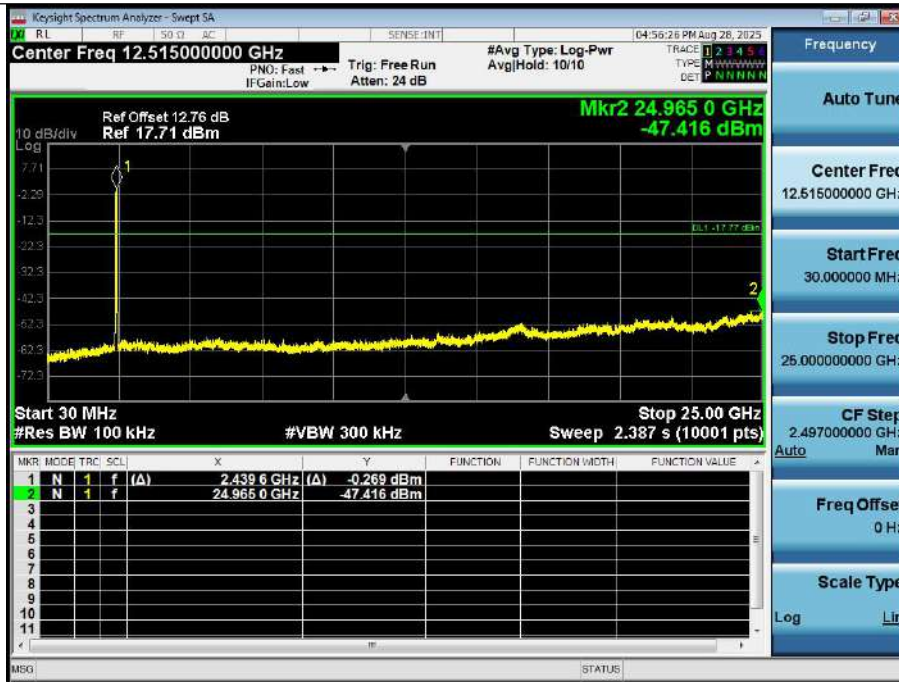
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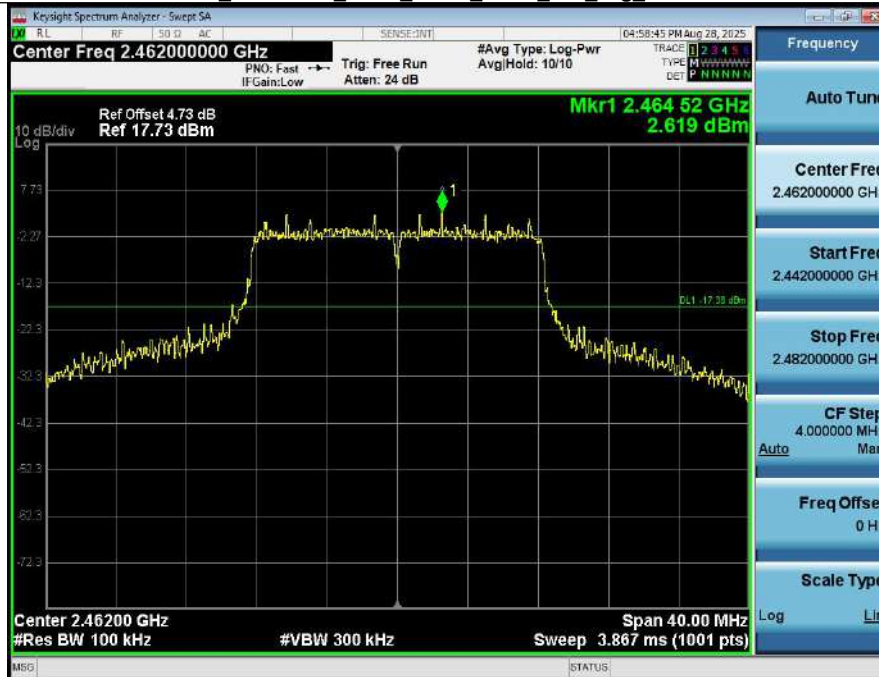
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1_Reference_Level_NVNT_ANT1_802_11g_2462



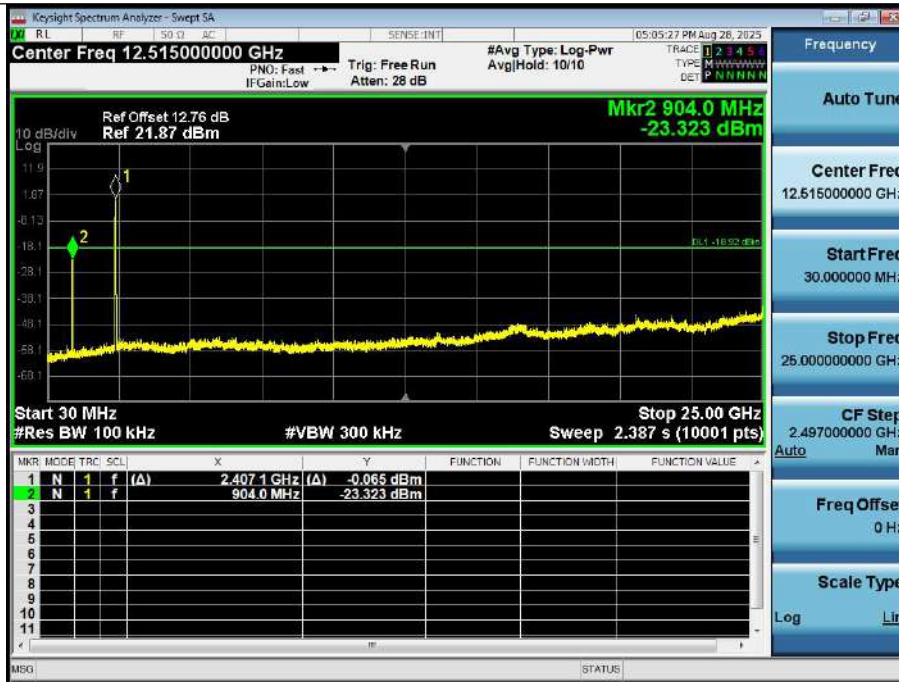
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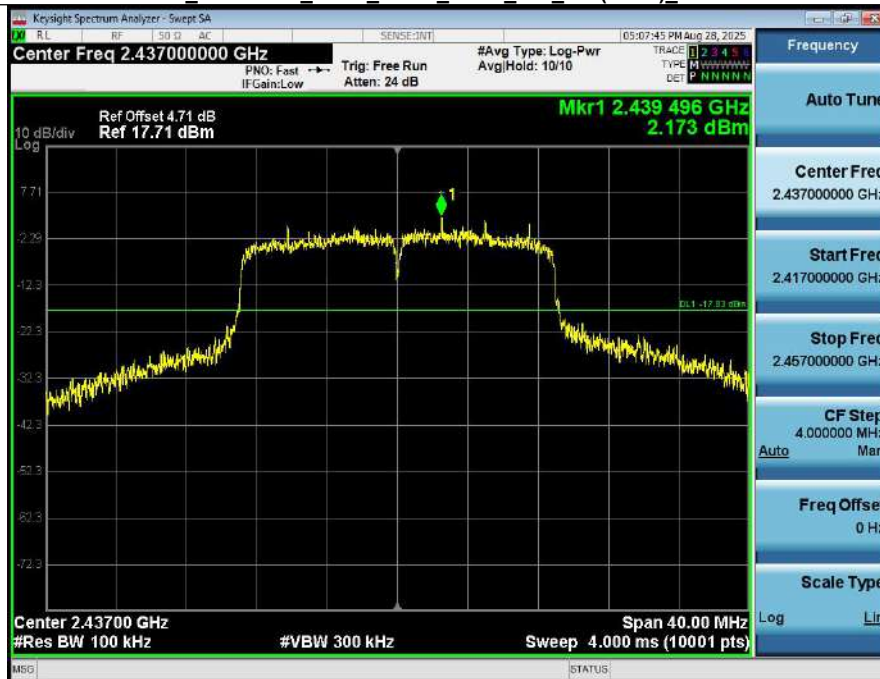
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2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



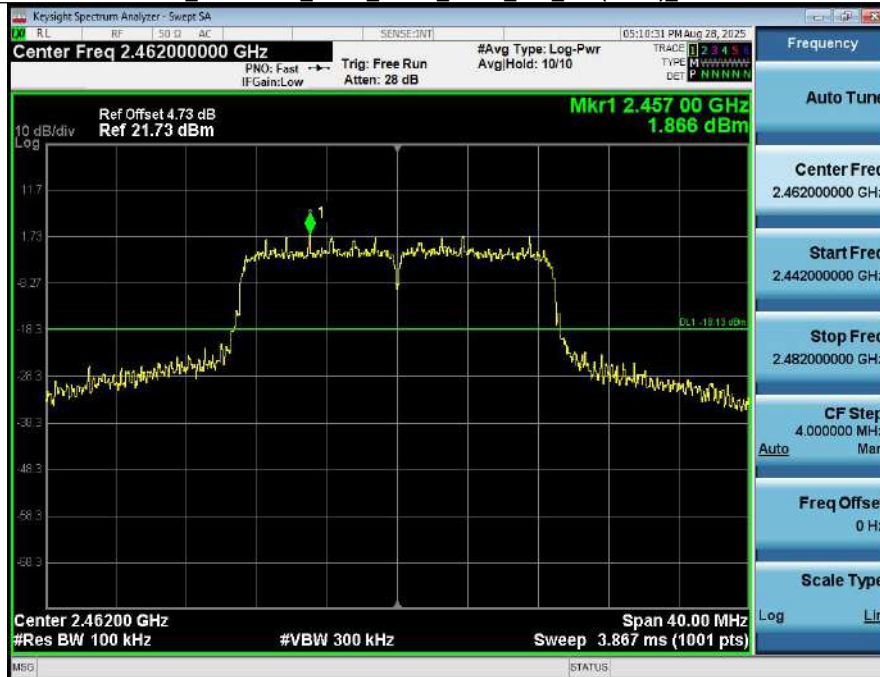
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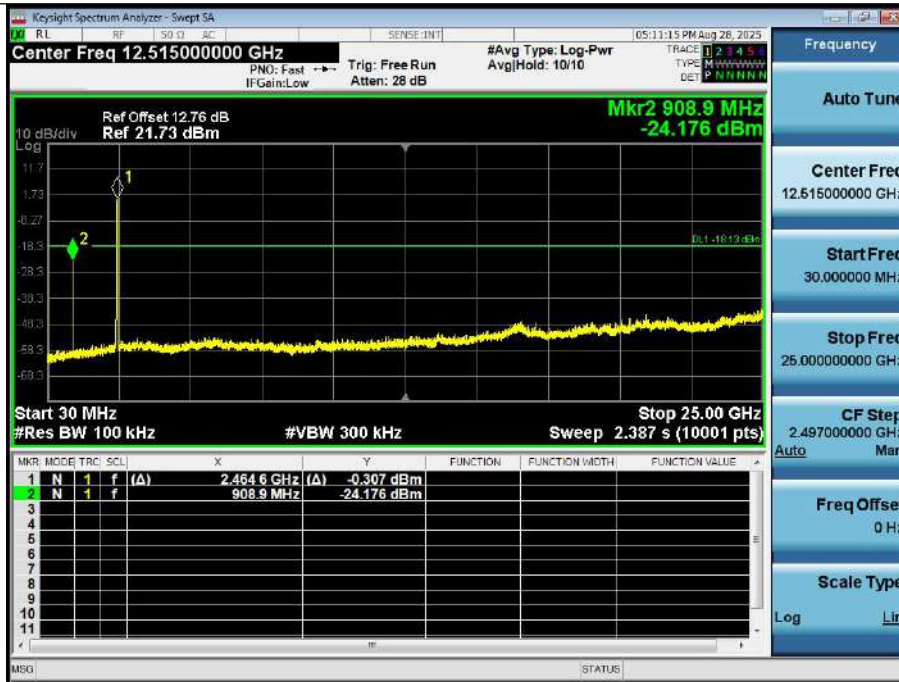
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



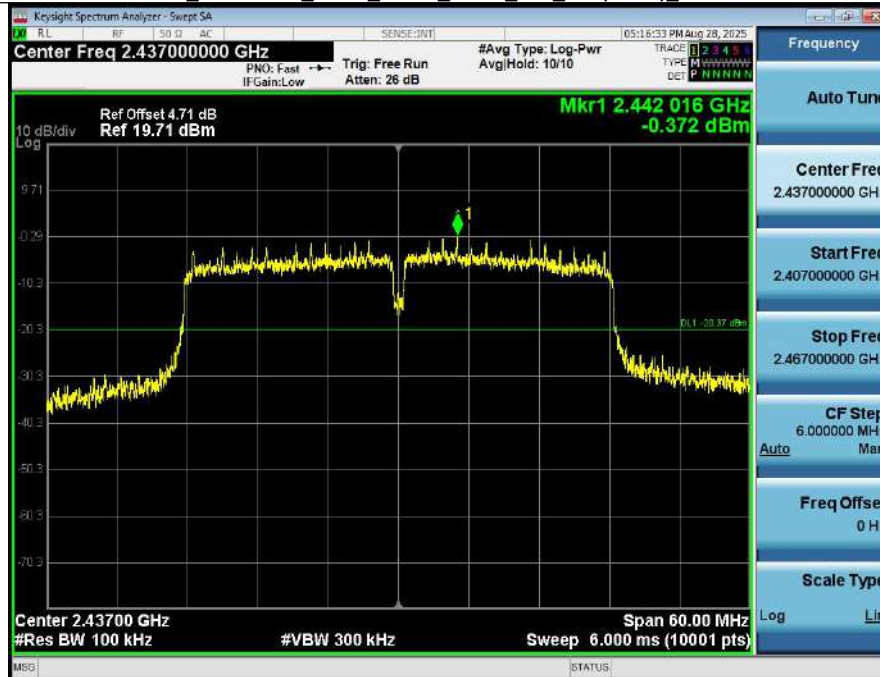
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



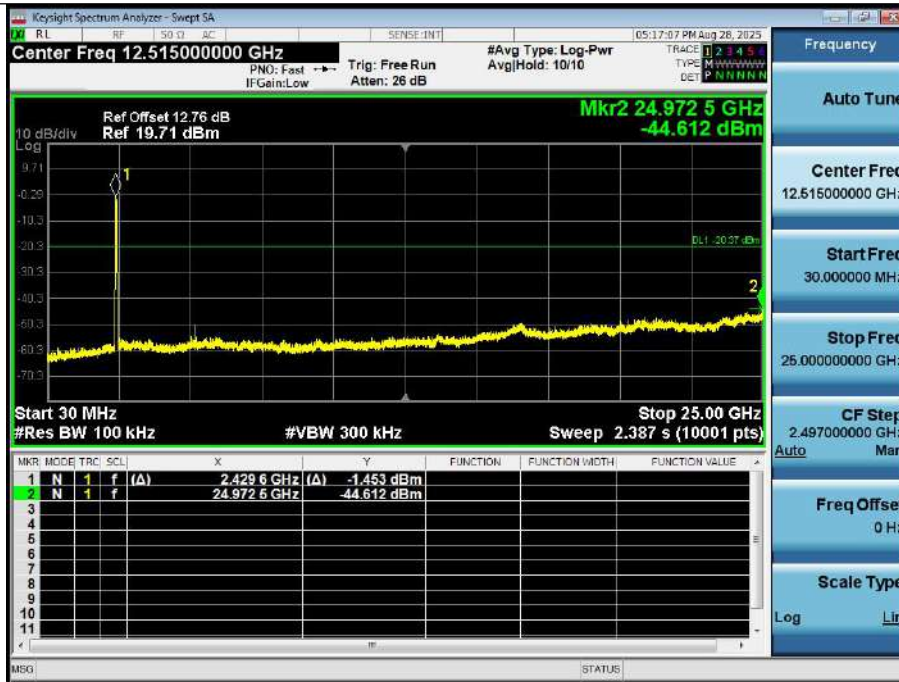
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



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

