

Report No.: BKC25125208ME-1
FCC ID:2BFZP-M47
FCC_2.4G_WIFI (Part15.247) Test Data

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1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.18	500	Pass
NVNT	ANT1	802.11b	2437.00	9.14	500	Pass
NVNT	ANT1	802.11b	2462.00	9.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.37	500	Pass
NVNT	ANT1	802.11g	2437.00	16.46	500	Pass
NVNT	ANT1	802.11g	2462.00	16.40	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.41	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.36	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.17	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.81	500	Pass



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



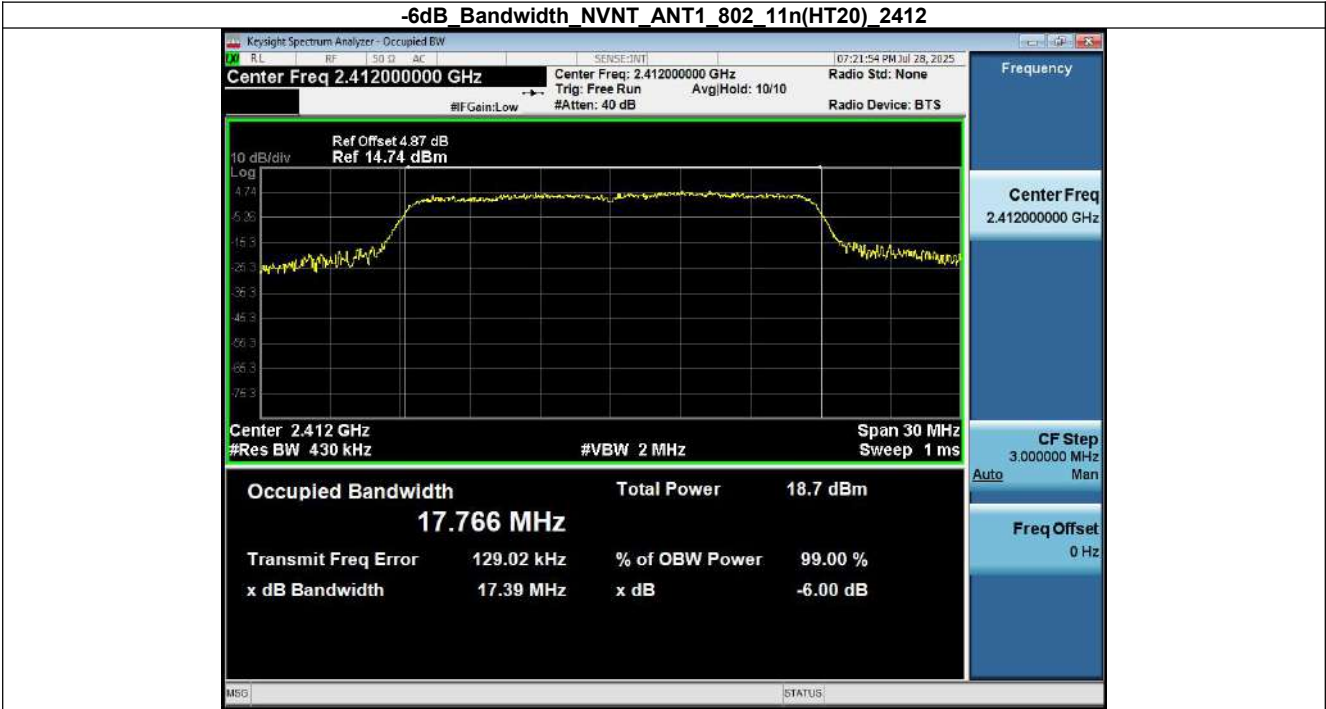
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-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



-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	11.959
NVNT	ANT1	802.11b	2437.00	12.077
NVNT	ANT1	802.11b	2462.00	12.040
NVNT	ANT1	802.11g	2412.00	17.185
NVNT	ANT1	802.11g	2437.00	17.239
NVNT	ANT1	802.11g	2462.00	17.114
NVNT	ANT1	802.11n(HT20)	2412.00	17.842
NVNT	ANT1	802.11n(HT20)	2437.00	17.888
NVNT	ANT1	802.11n(HT20)	2462.00	17.881
NVNT	ANT1	802.11n(HT40)	2422.00	36.524
NVNT	ANT1	802.11n(HT40)	2437.00	36.502
NVNT	ANT1	802.11n(HT40)	2452.00	36.510



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

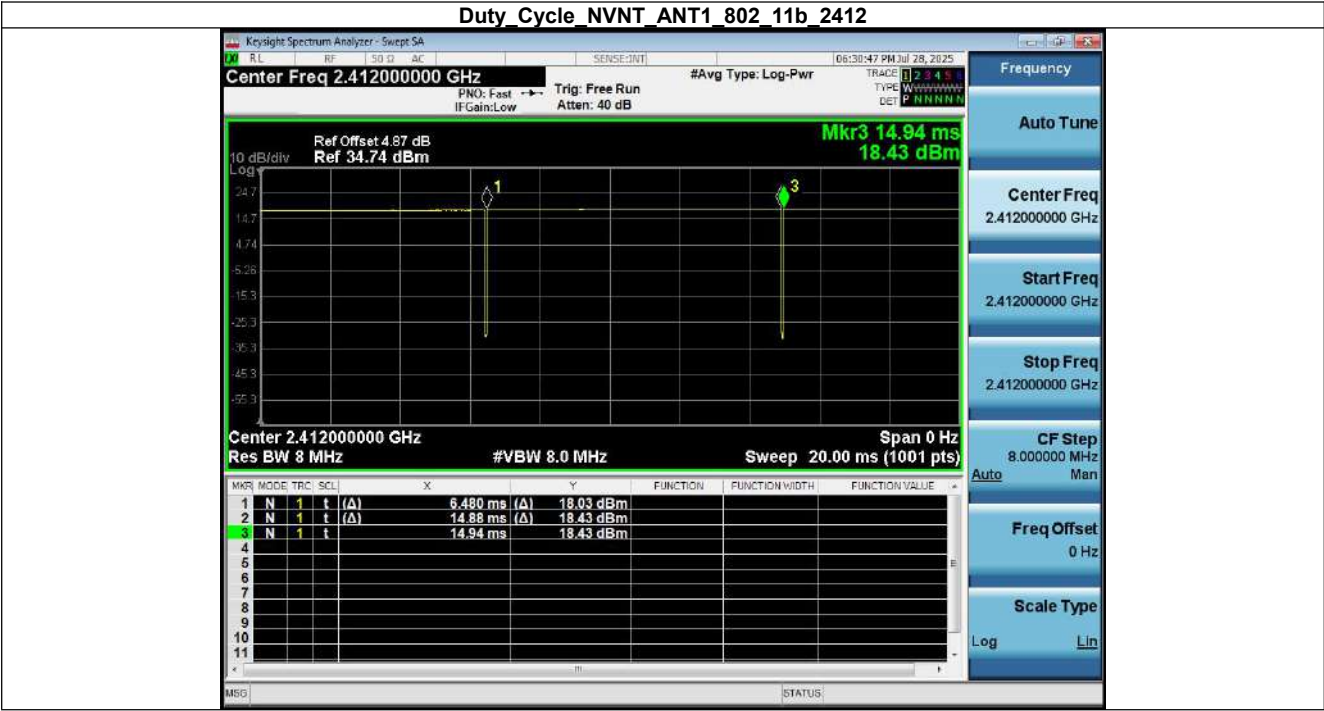


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



3. Duty Cycle

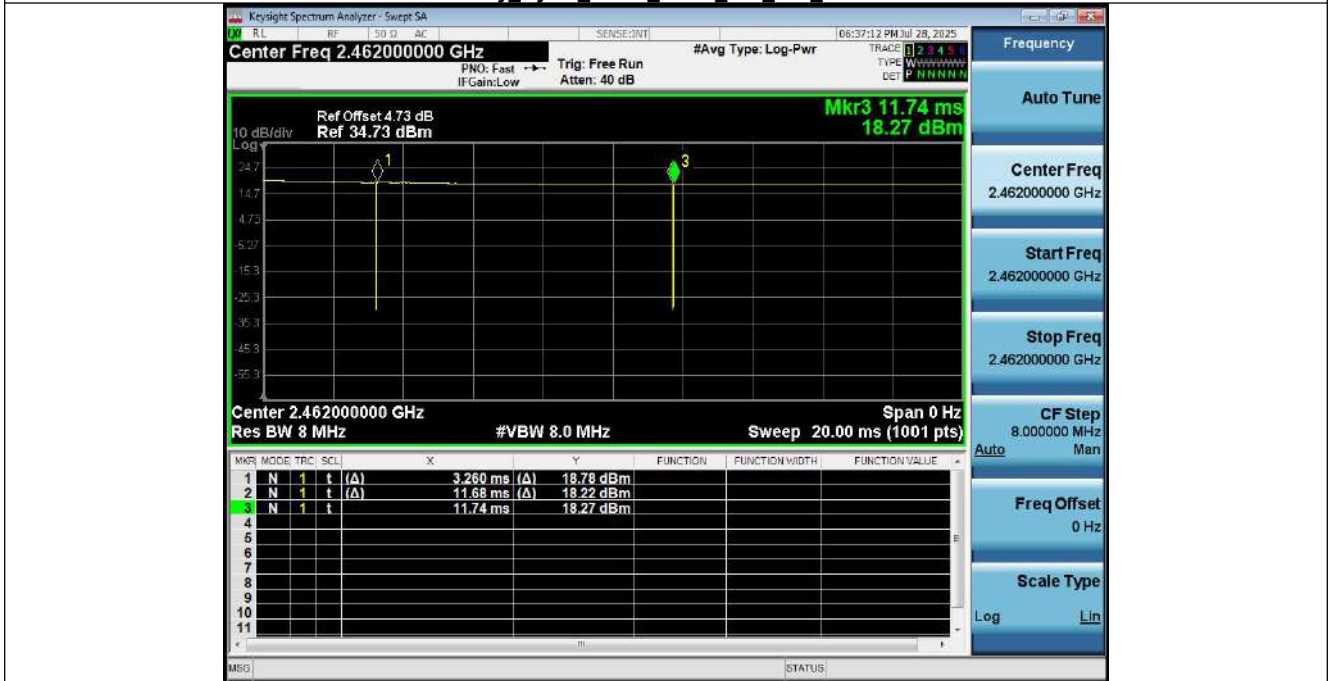
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT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



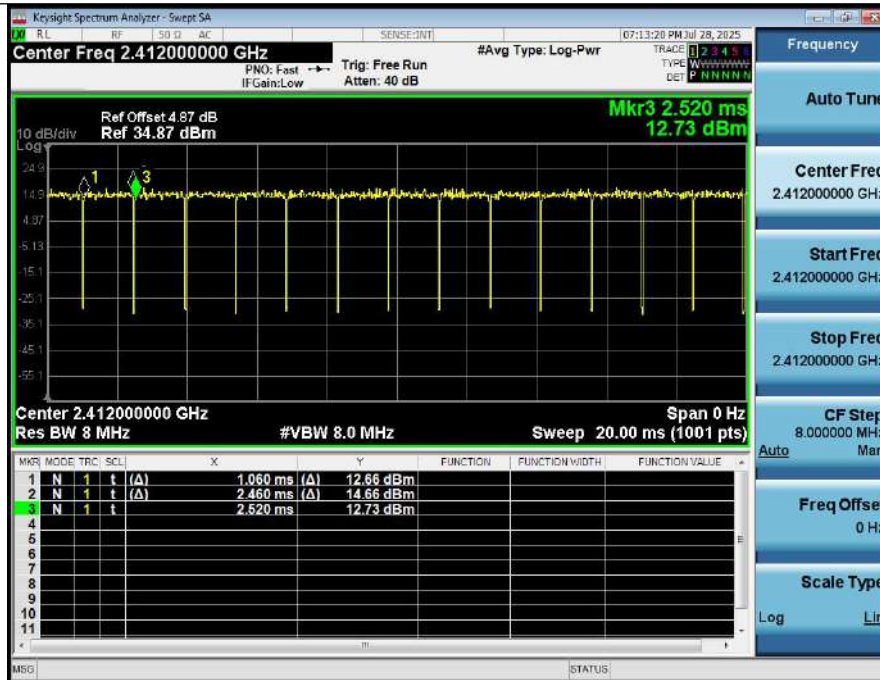
Duty Cycle NVNT ANT1 802 11b 2437



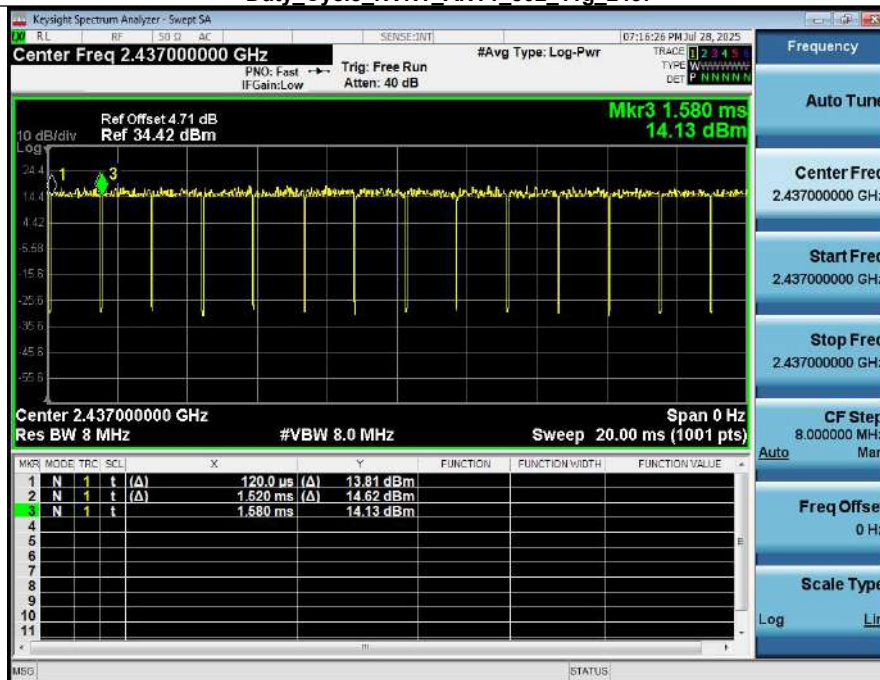
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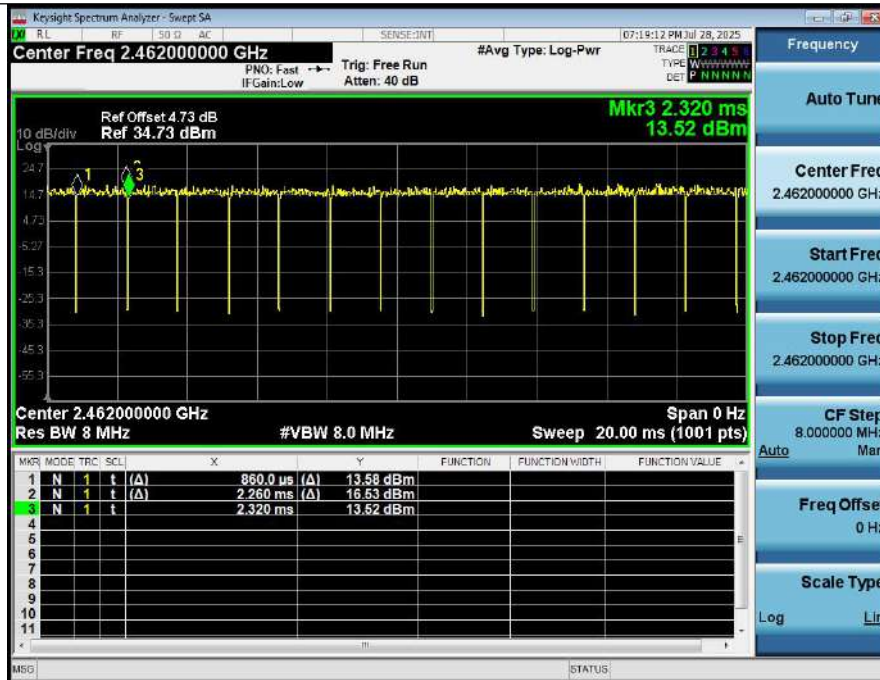
Duty_Cycle_NVNT_ANT1_802_11g_2412



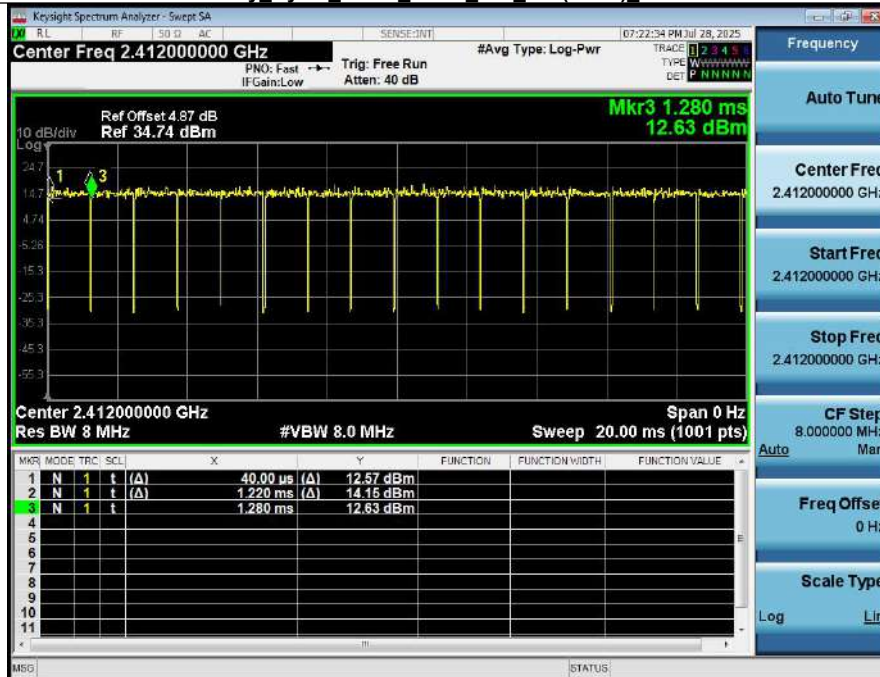
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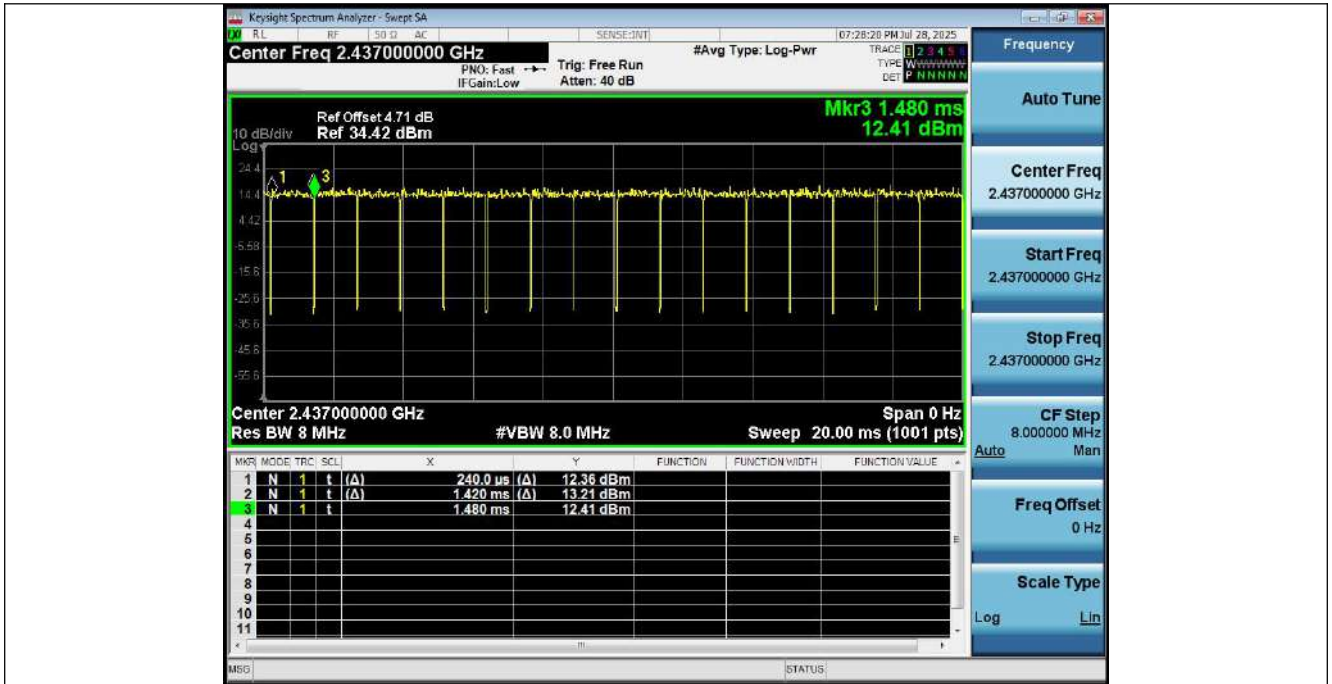
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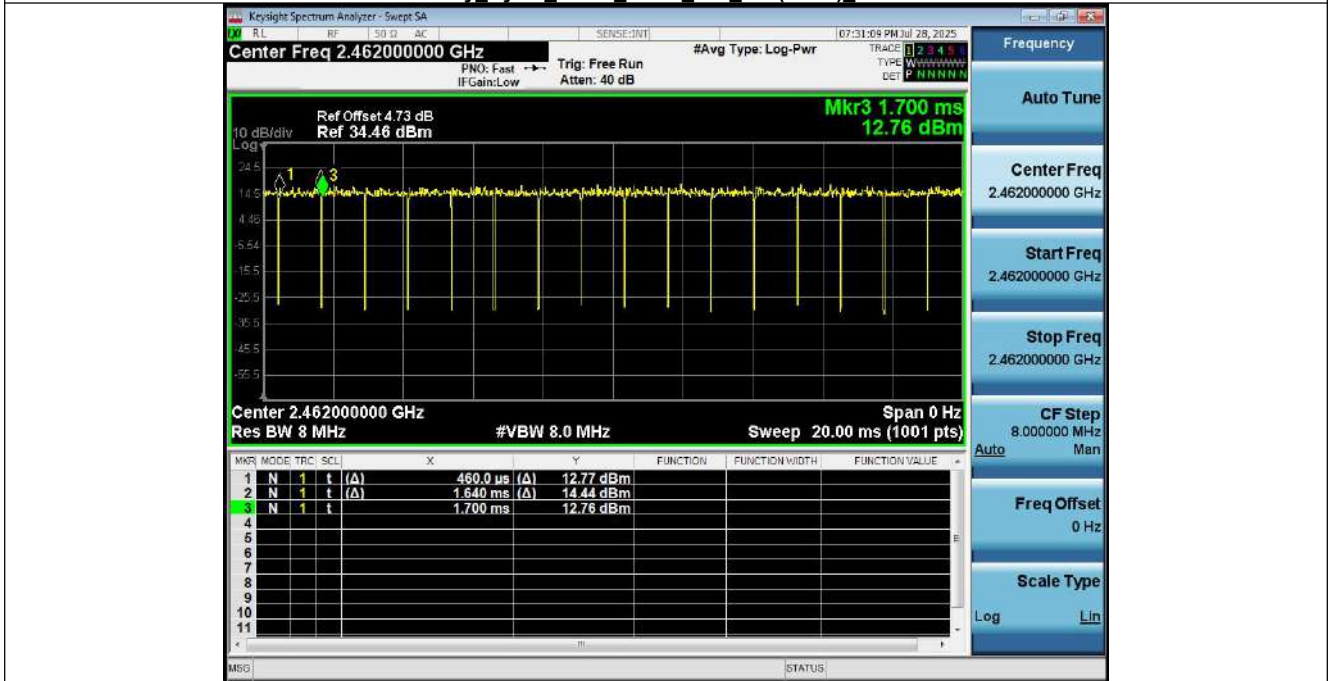
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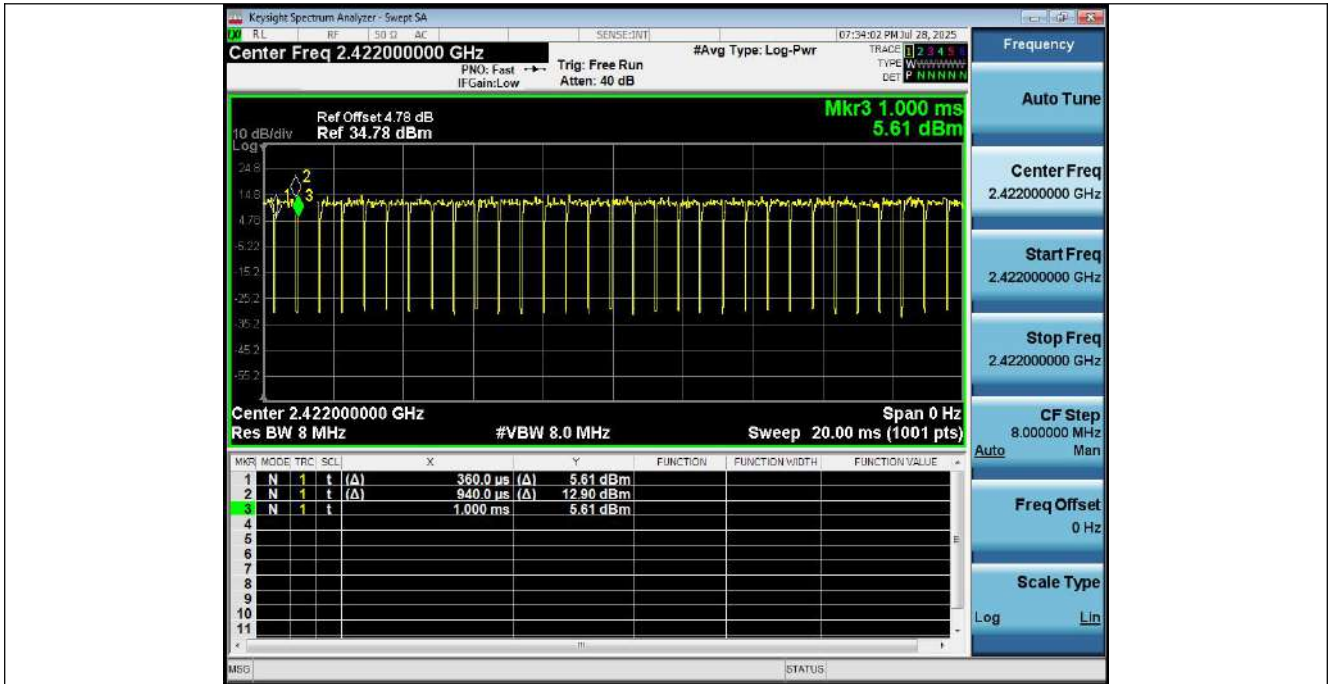
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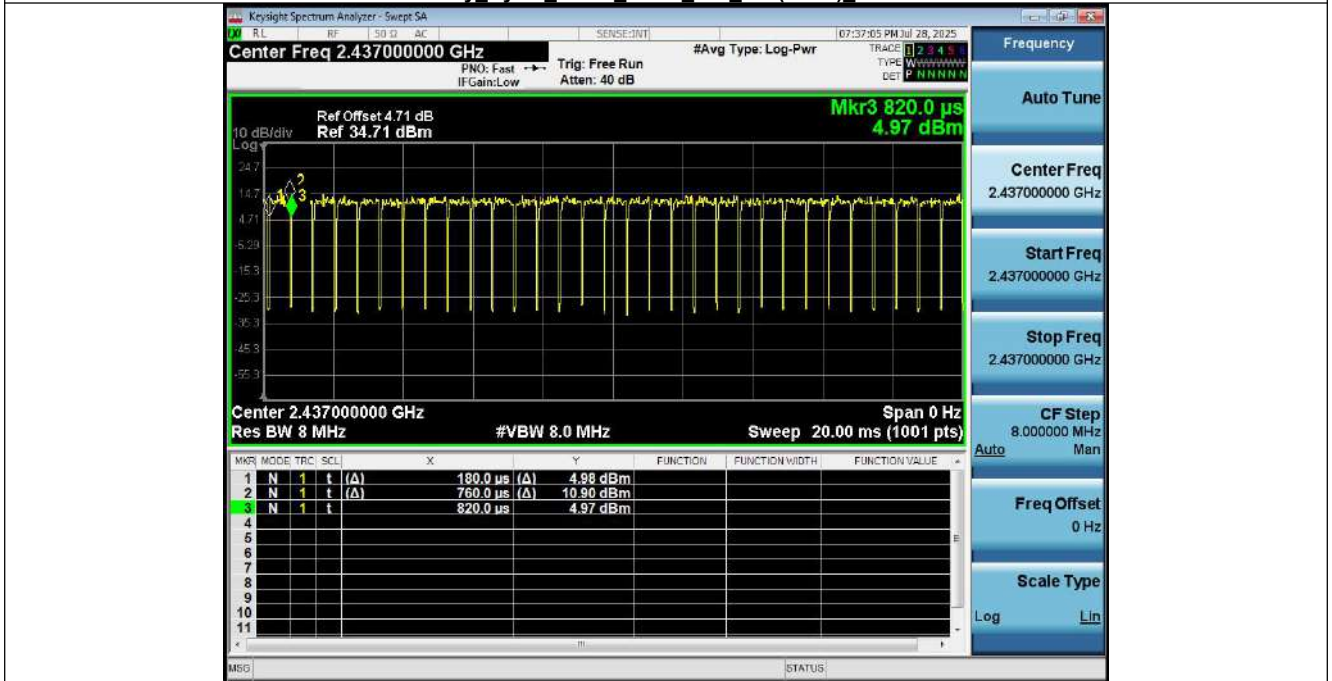
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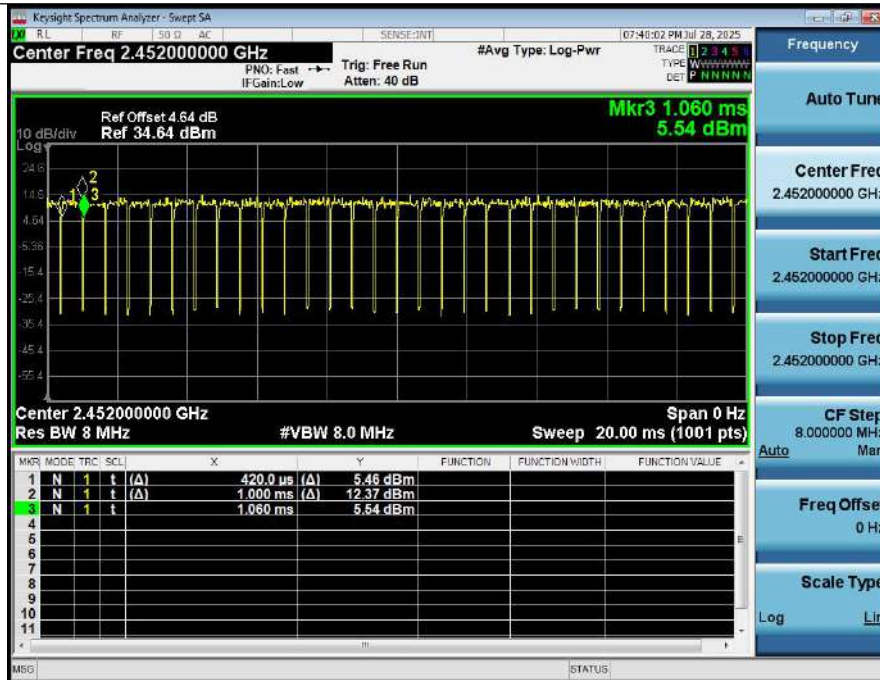
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	6.87	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	7.72	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	7.31	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	7.38	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	8.31	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	8.43	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	8.45	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	8.24	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	8.47	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	8.40	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	8.37	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	8.13	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	3.41	-10.00	-6.59	8	Pass
NVNT	ANT1	802.11b	2437.00	2.80	-10.00	-7.20	8	Pass
NVNT	ANT1	802.11b	2462.00	2.95	-10.00	-7.05	8	Pass
NVNT	ANT1	802.11g	2412.00	-3.78	-10.00	-13.78	8	Pass
NVNT	ANT1	802.11g	2437.00	-4.04	-10.00	-14.04	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.86	-10.00	-13.86	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.59	-10.00	-14.59	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.32	-10.00	-15.32	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.70	-10.00	-14.70	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-8.07	-10.00	-18.07	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-8.31	-10.00	-18.31	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-7.85	-10.00	-17.85	8	Pass



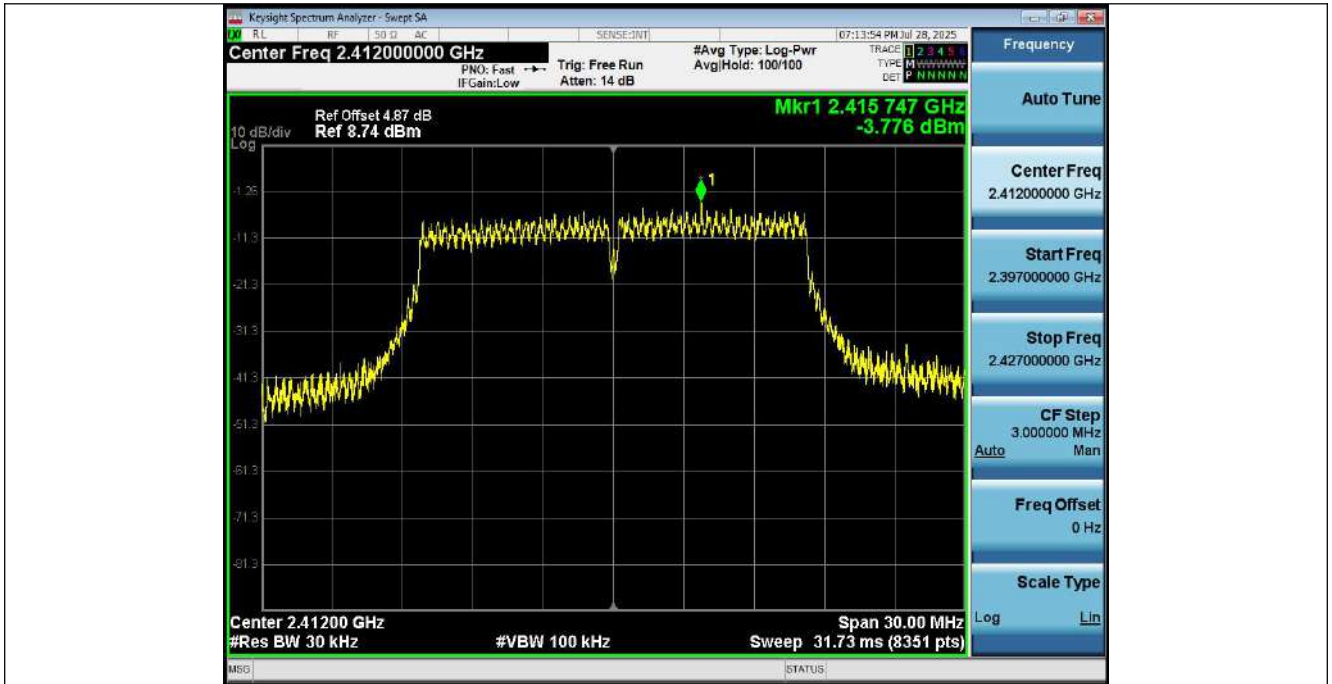
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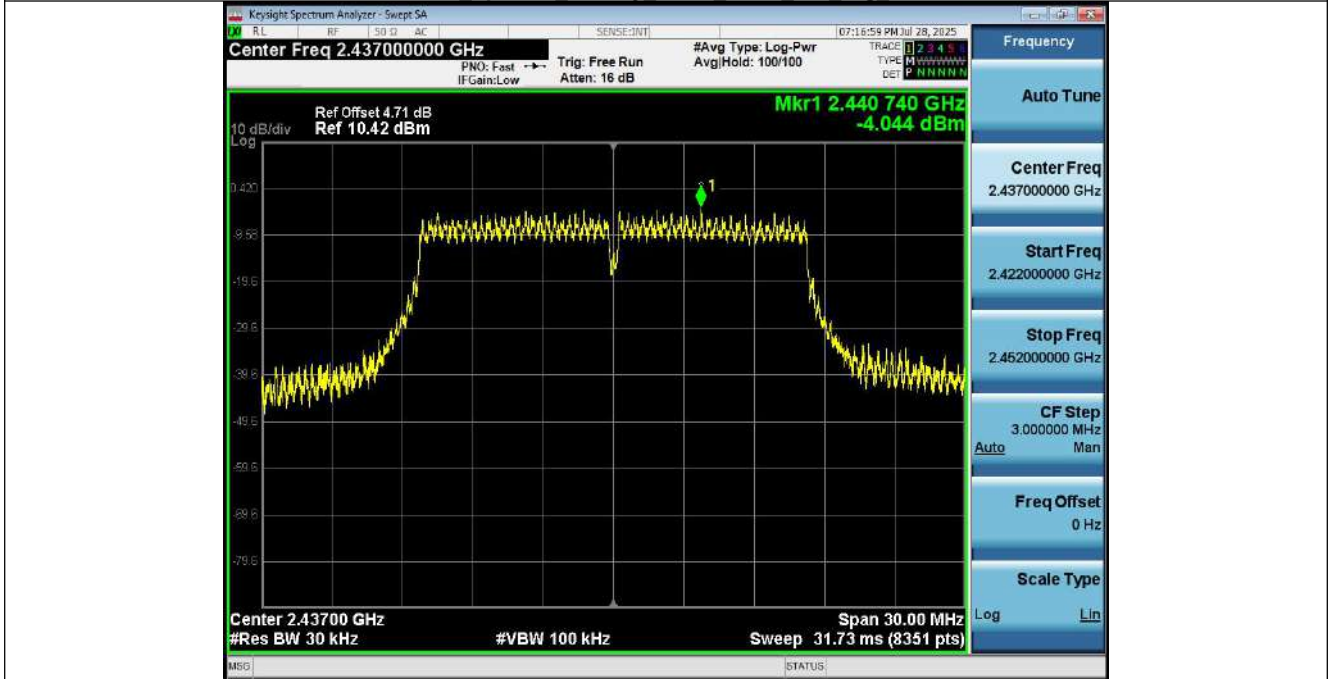
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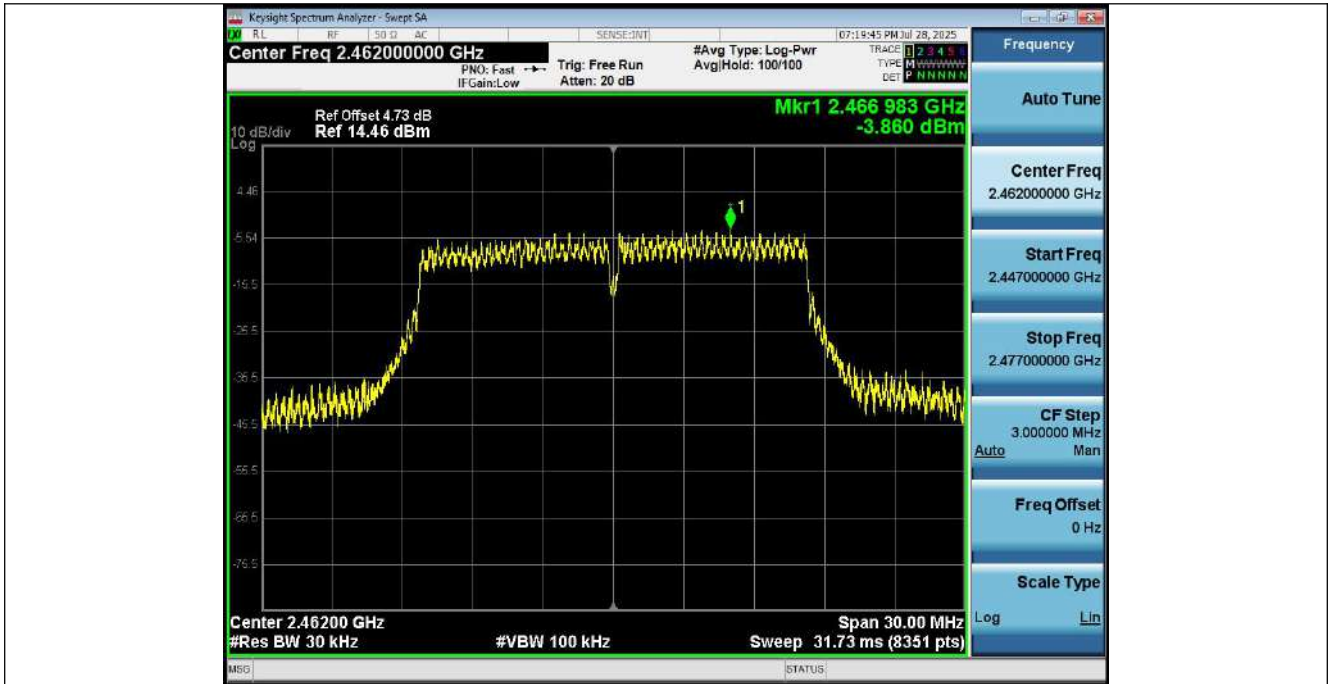
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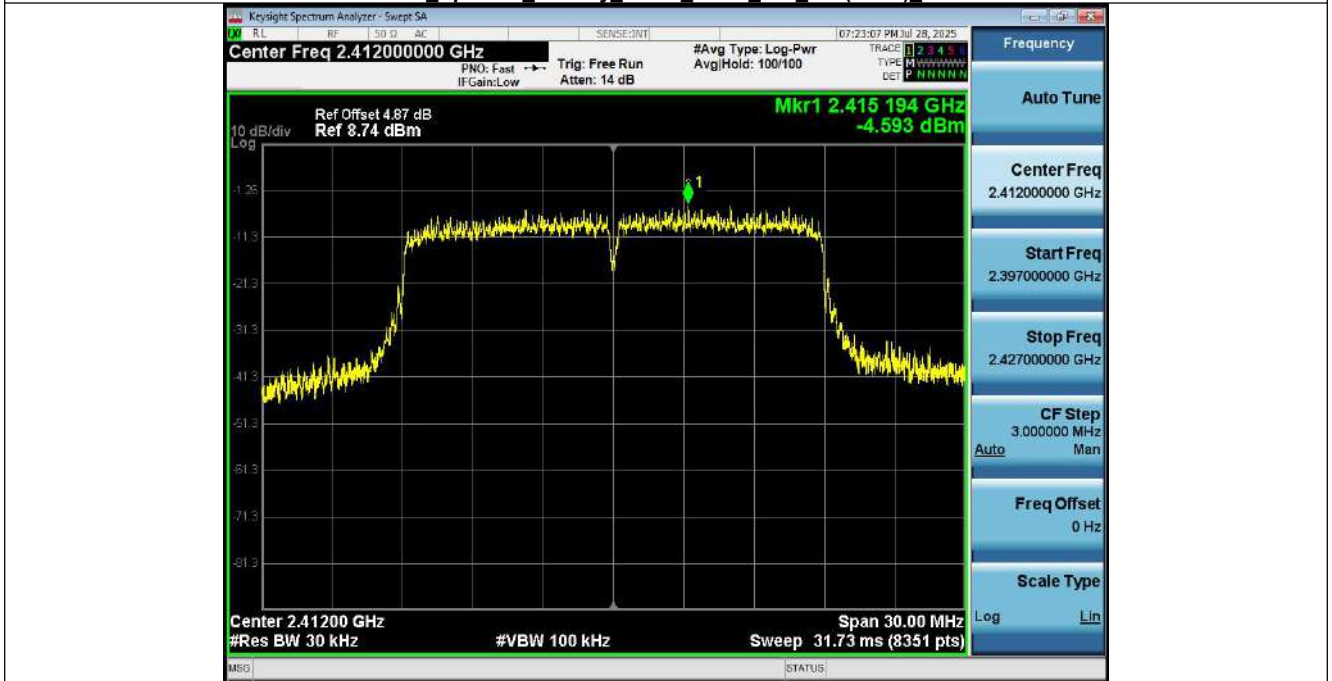
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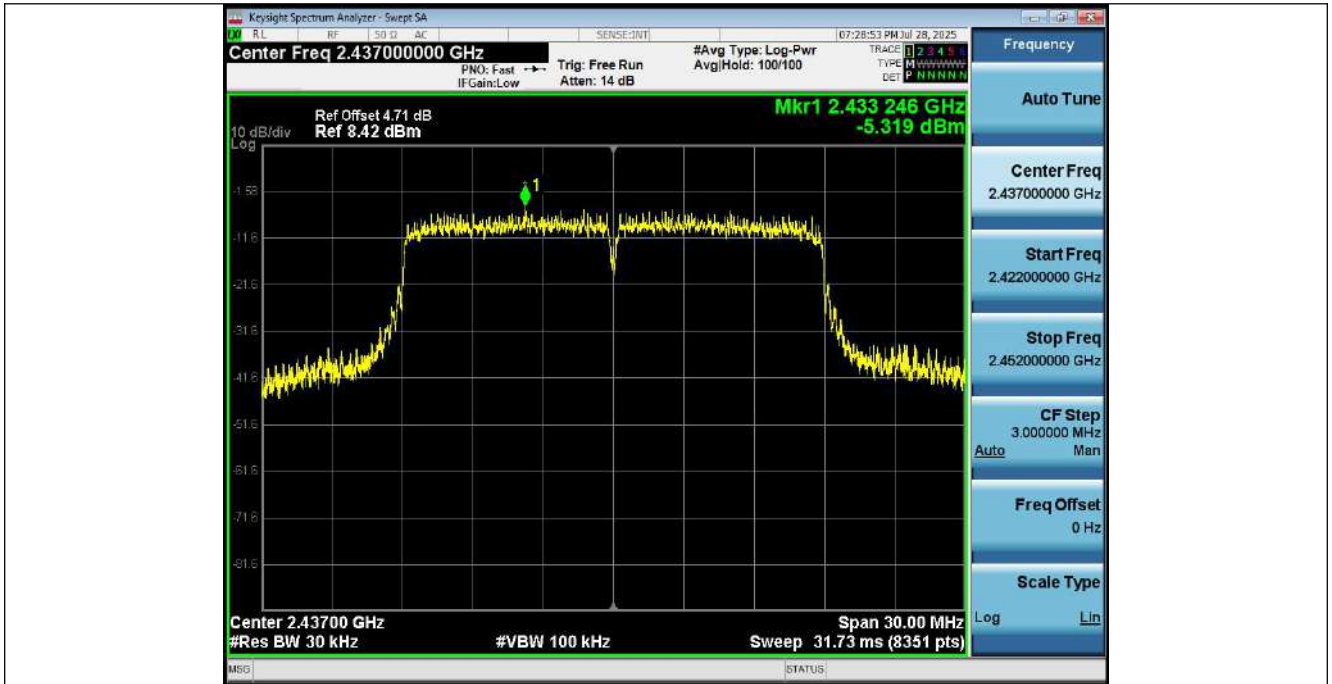
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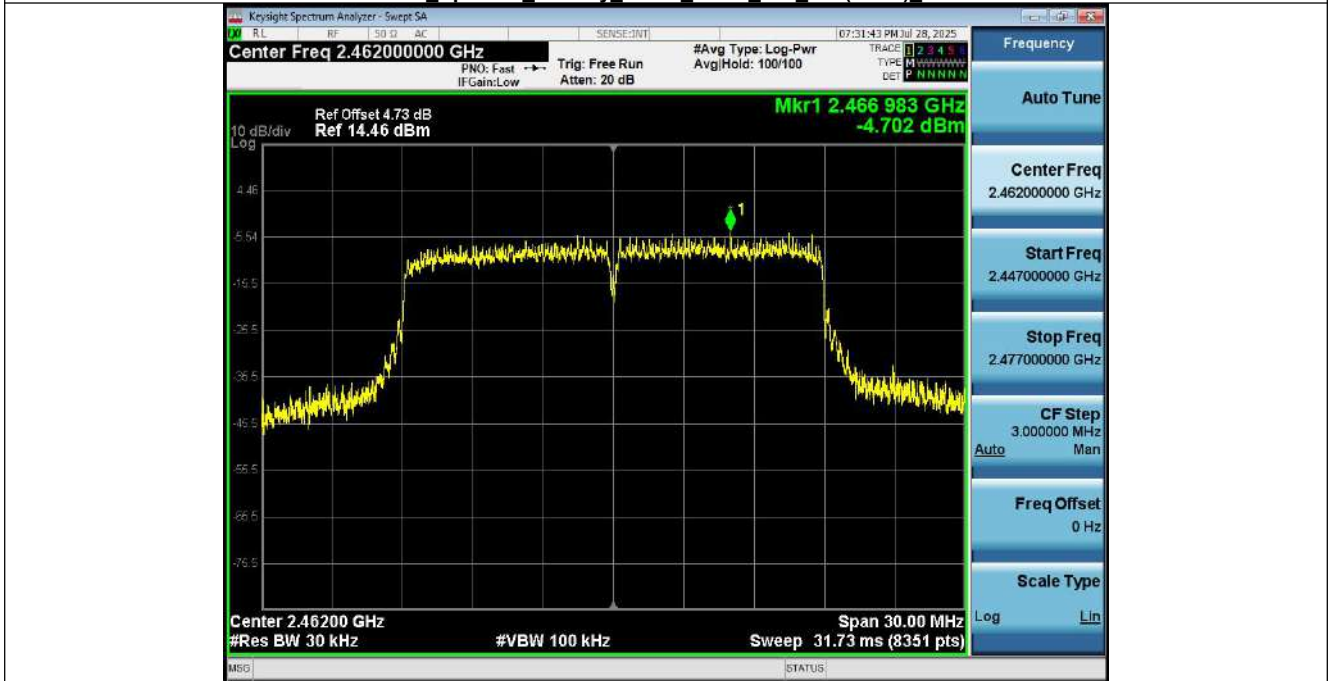
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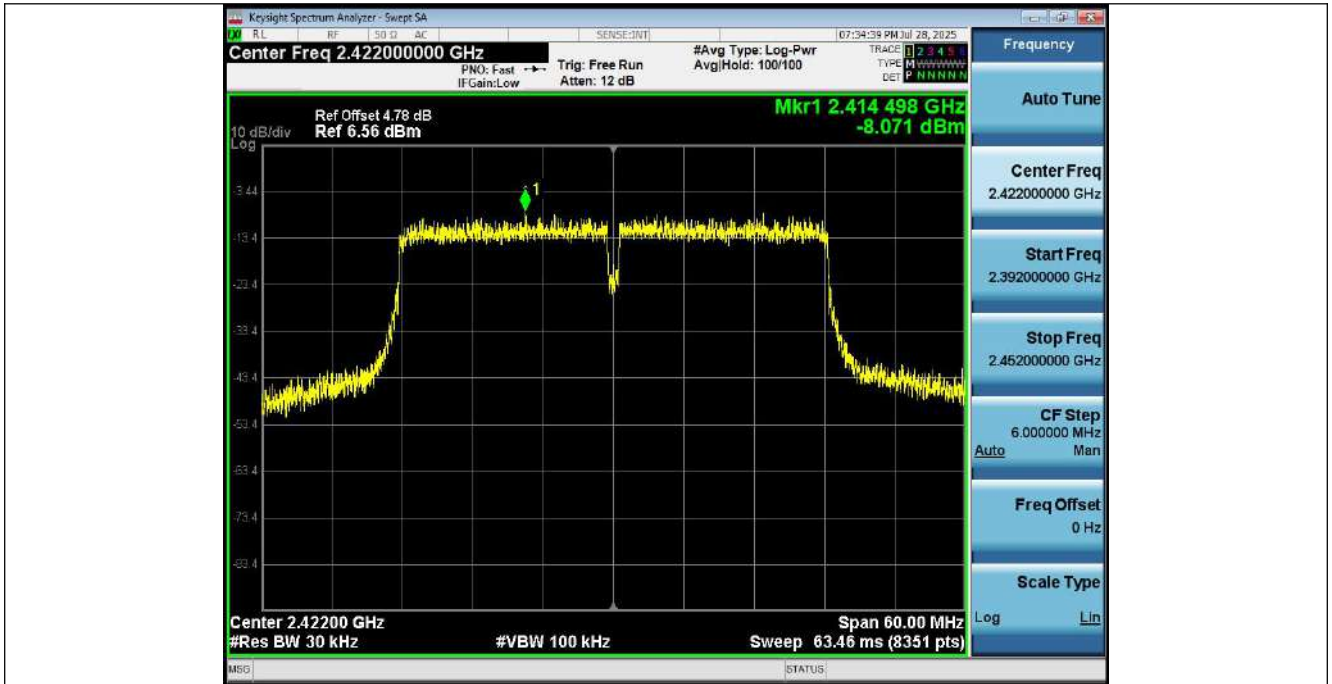
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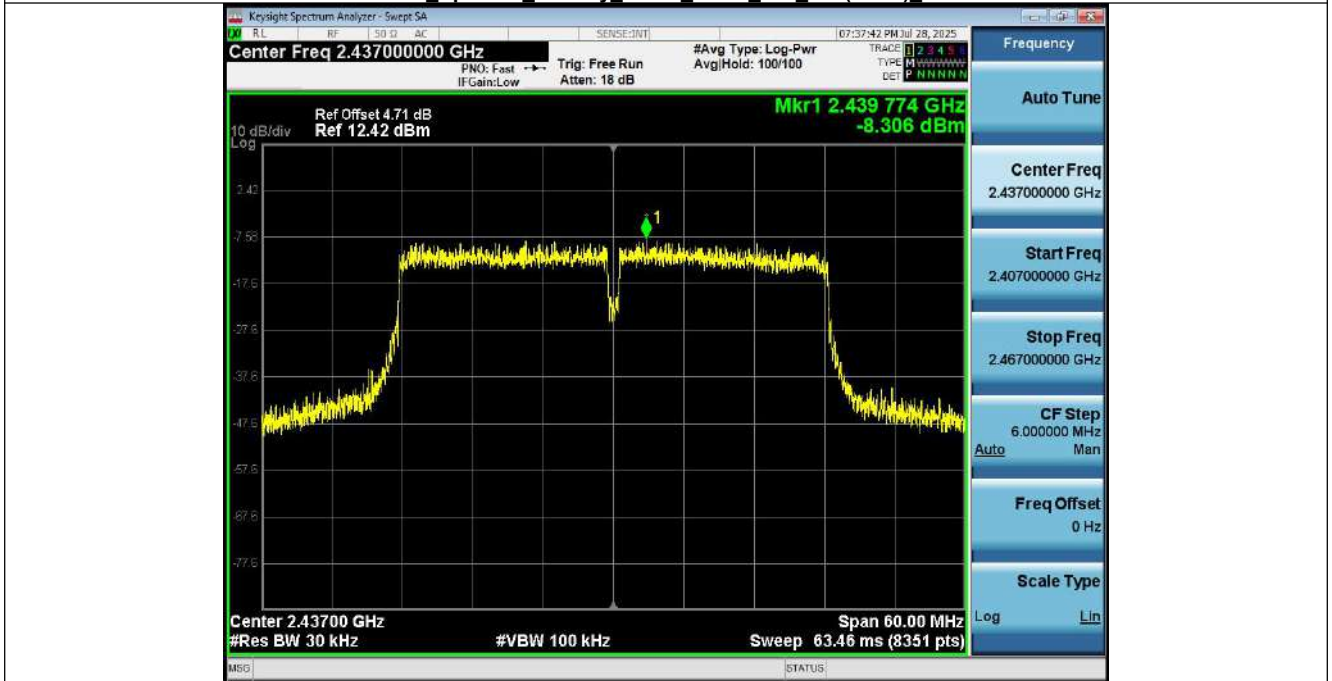
Power Spectral Density NVNT ANT1 802_11n(HT20)_2462



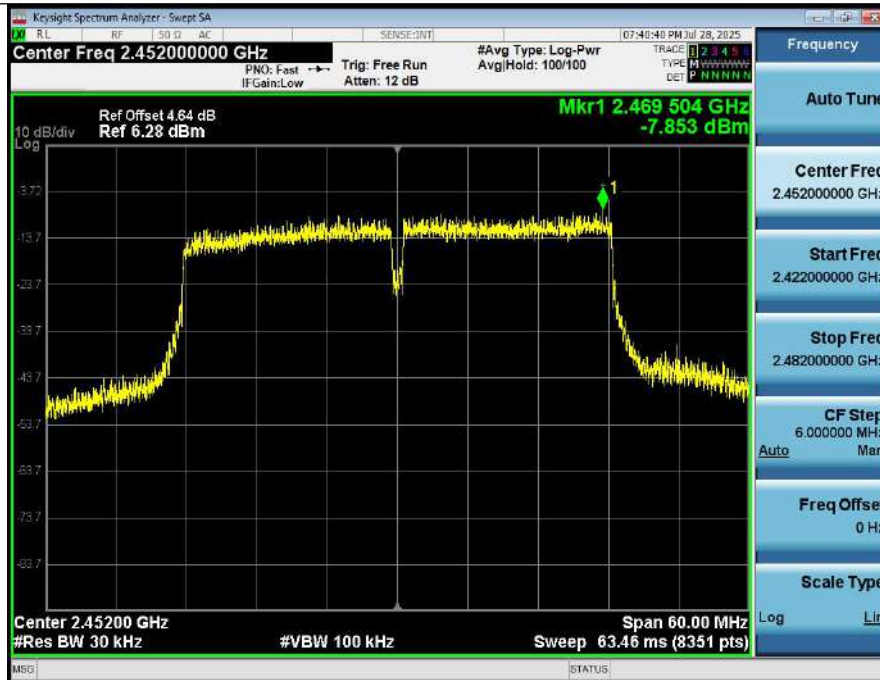
Power Spectral Density NVNT ANT1 802_11n(HT40)_2422



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_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	5.972	-35.728	-14.028	Pass
NVNT	ANT1	802.11b	2462.00	2484.064	6.341	-53.733	-13.659	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-0.110	-32.024	-20.110	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	0.878	-41.242	-19.122	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.256	-0.186	-32.207	-20.186	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-0.047	-40.819	-20.047	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-3.369	-34.470	-23.369	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.612	-3.302	-37.046	-23.302	Pass



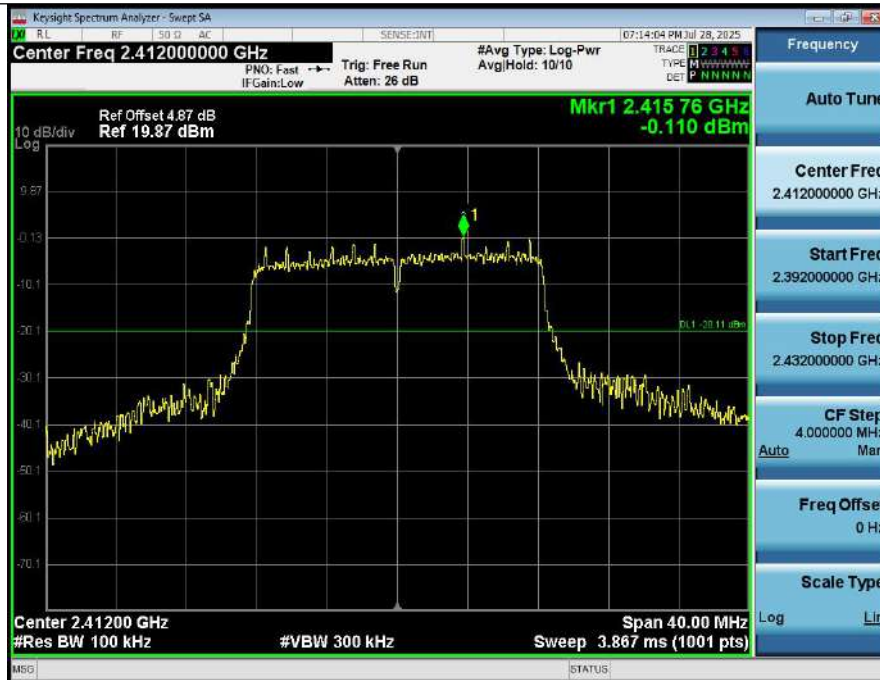
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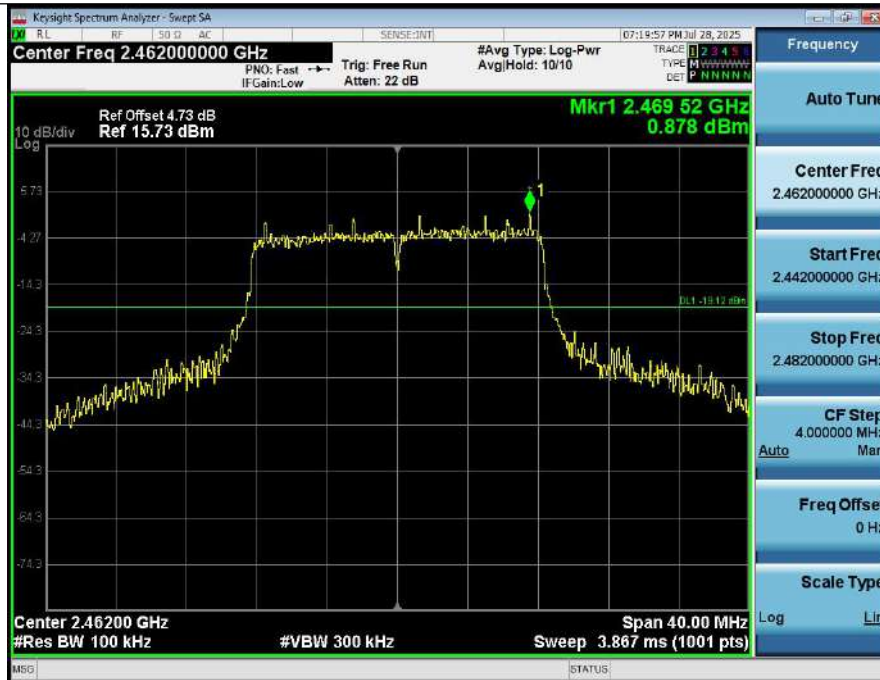
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2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



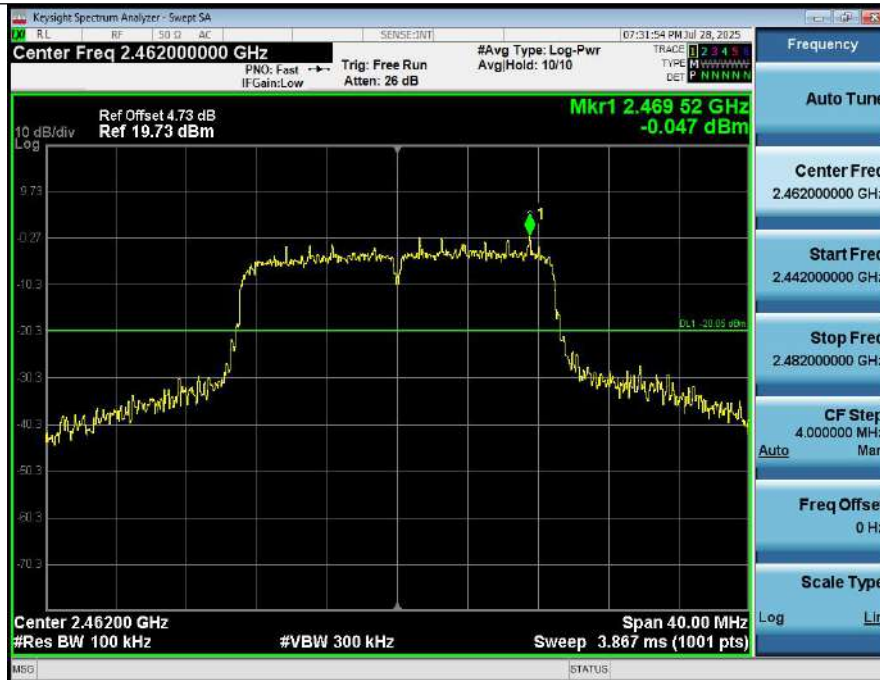
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



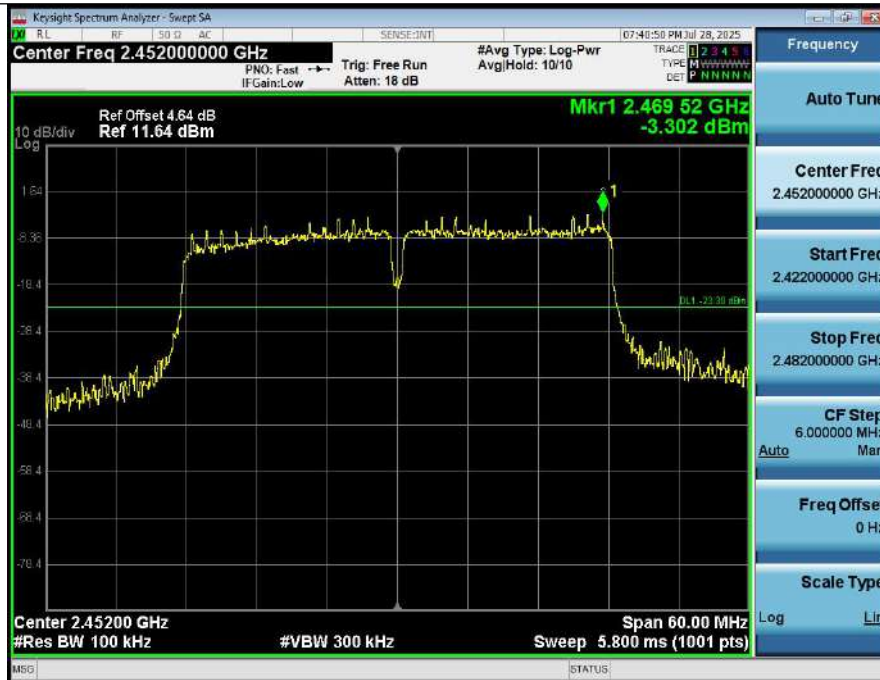
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2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



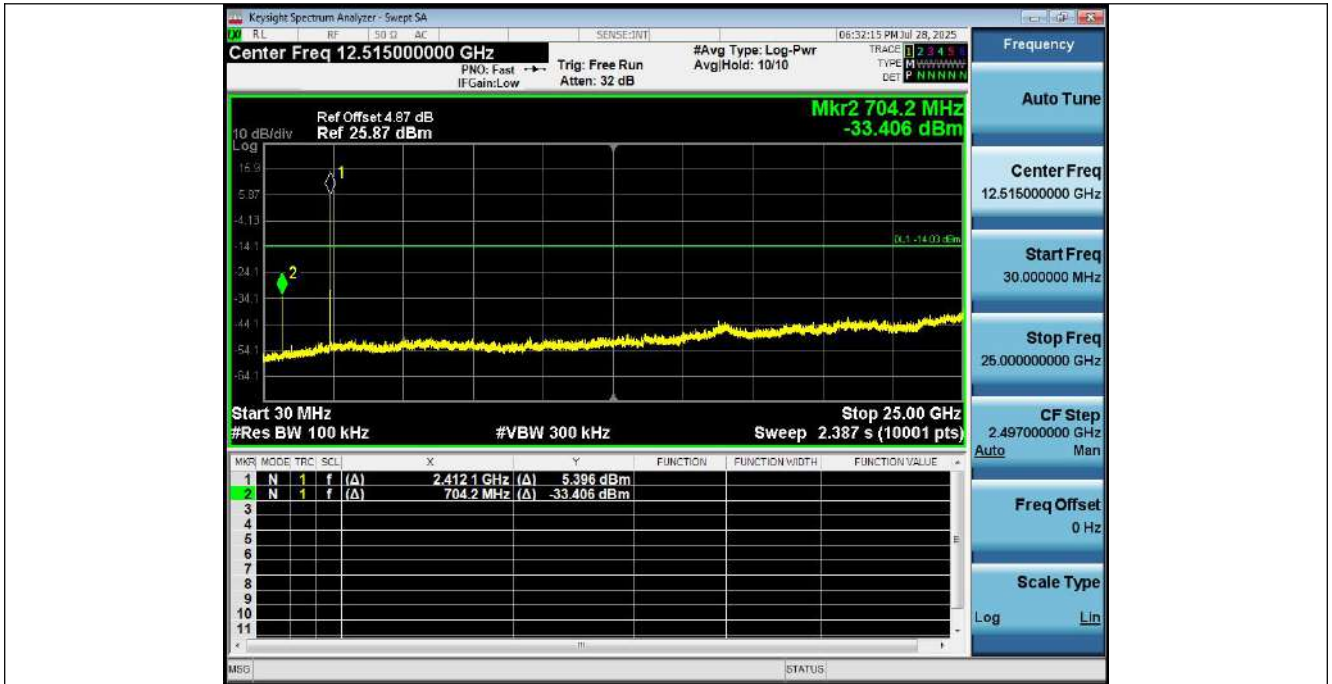
7. Spurious Emission

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	704.190	5.972	-33.406	-14.028	Pass
NVNT	ANT1	802.11b	2437.00	24980.024	5.943	-42.999	-14.057	Pass
NVNT	ANT1	802.11b	2462.00	704.190	6.341	-29.939	-13.659	Pass
NVNT	ANT1	802.11g	2412.00	2534.491	-0.110	-41.760	-20.110	Pass
NVNT	ANT1	802.11g	2437.00	711.681	-0.387	-39.370	-20.387	Pass
NVNT	ANT1	802.11g	2462.00	2519.509	0.878	-38.020	-19.122	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2531.994	-0.186	-29.610	-20.186	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	729.160	-1.236	-37.836	-21.236	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2576.940	-0.047	-33.393	-20.047	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	721.669	-3.369	-41.456	-23.369	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	721.669	-3.556	-28.752	-23.556	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2586.928	-3.302	-43.555	-23.302	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



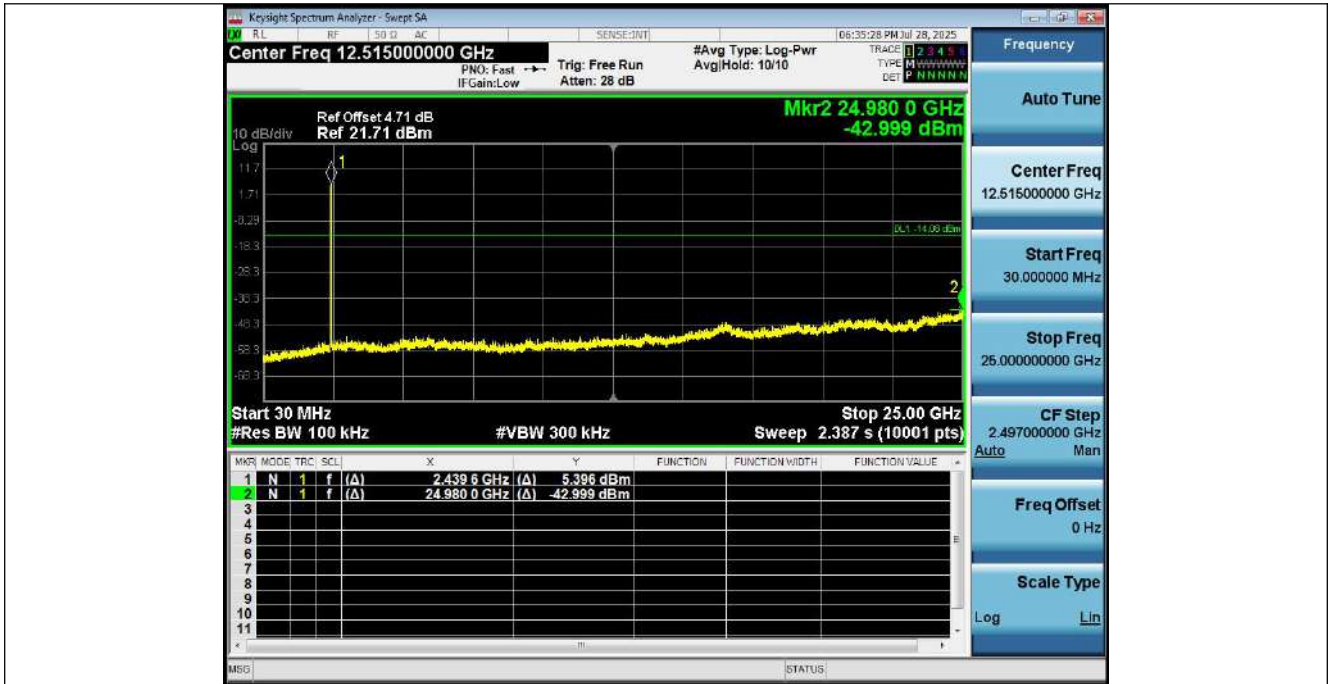
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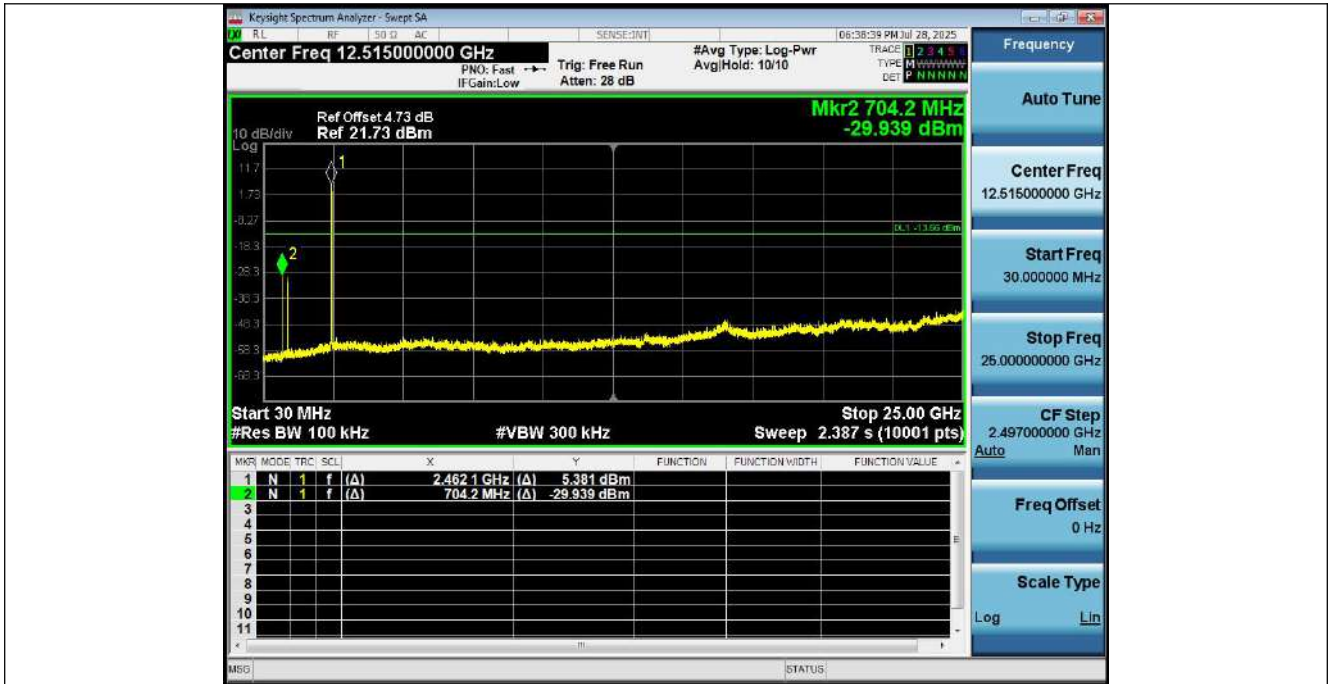
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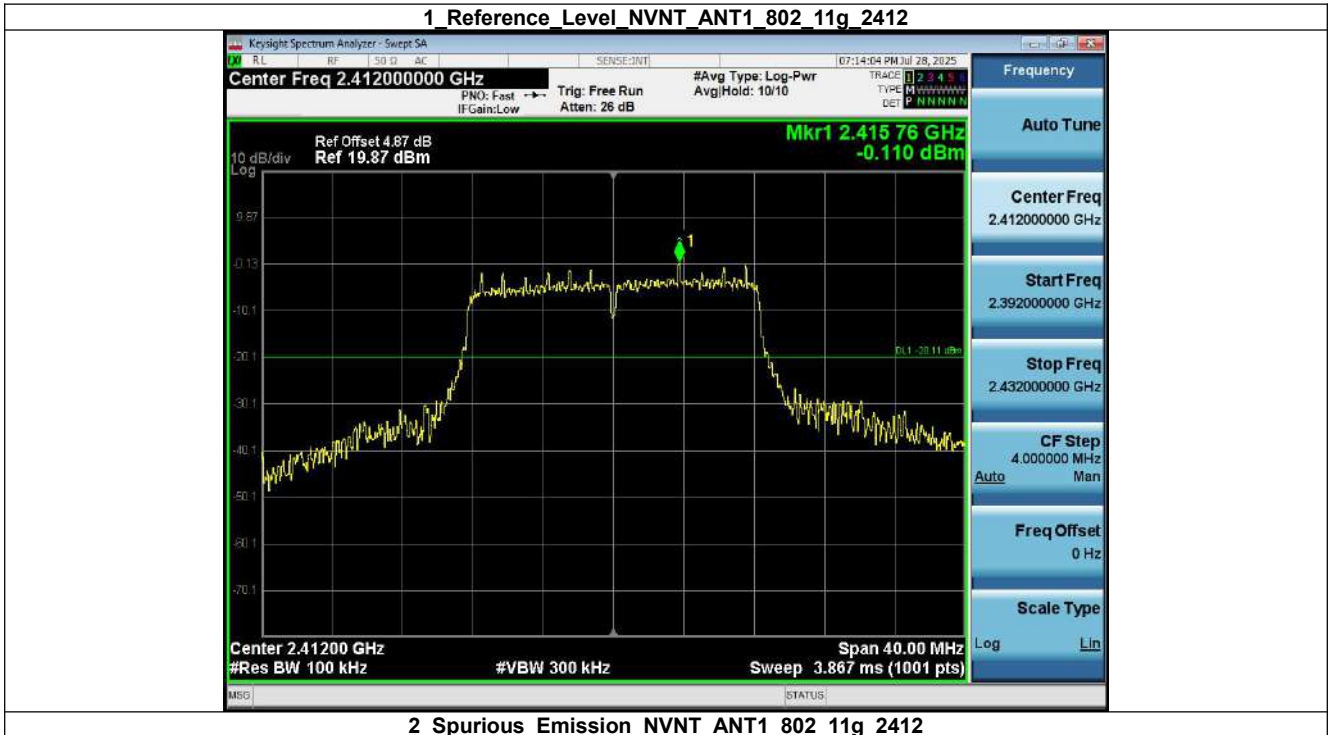
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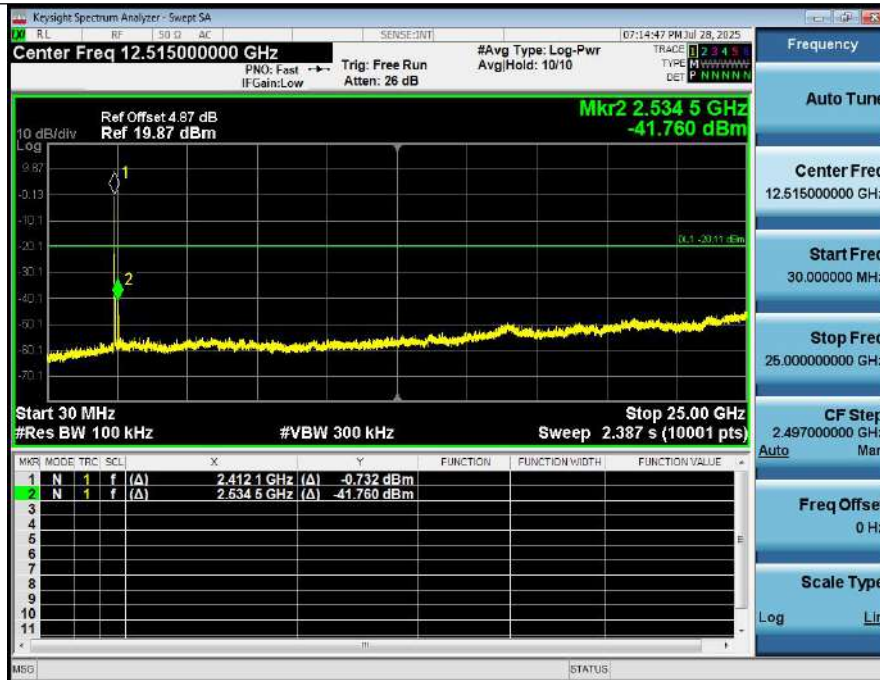
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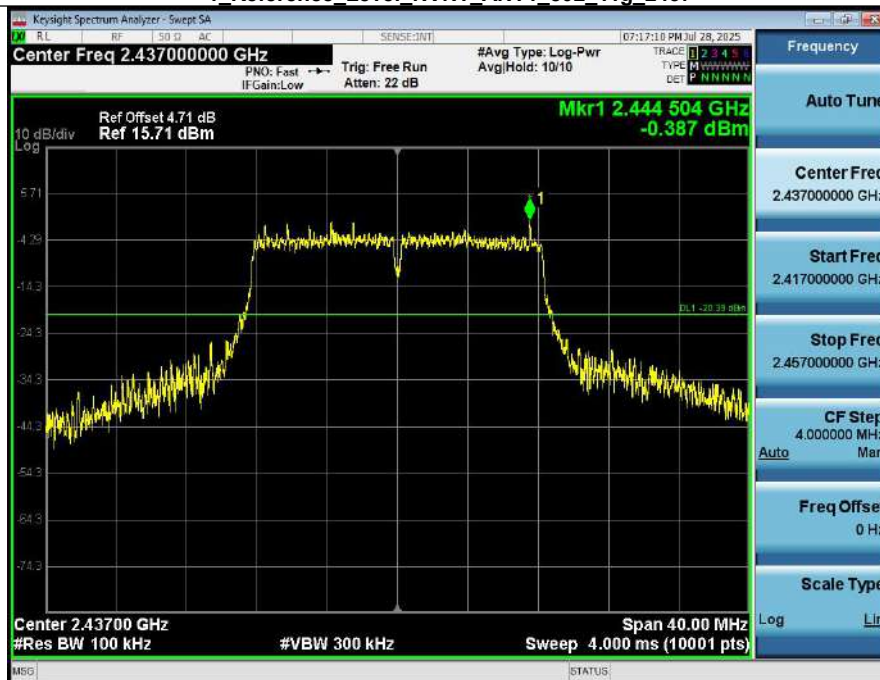
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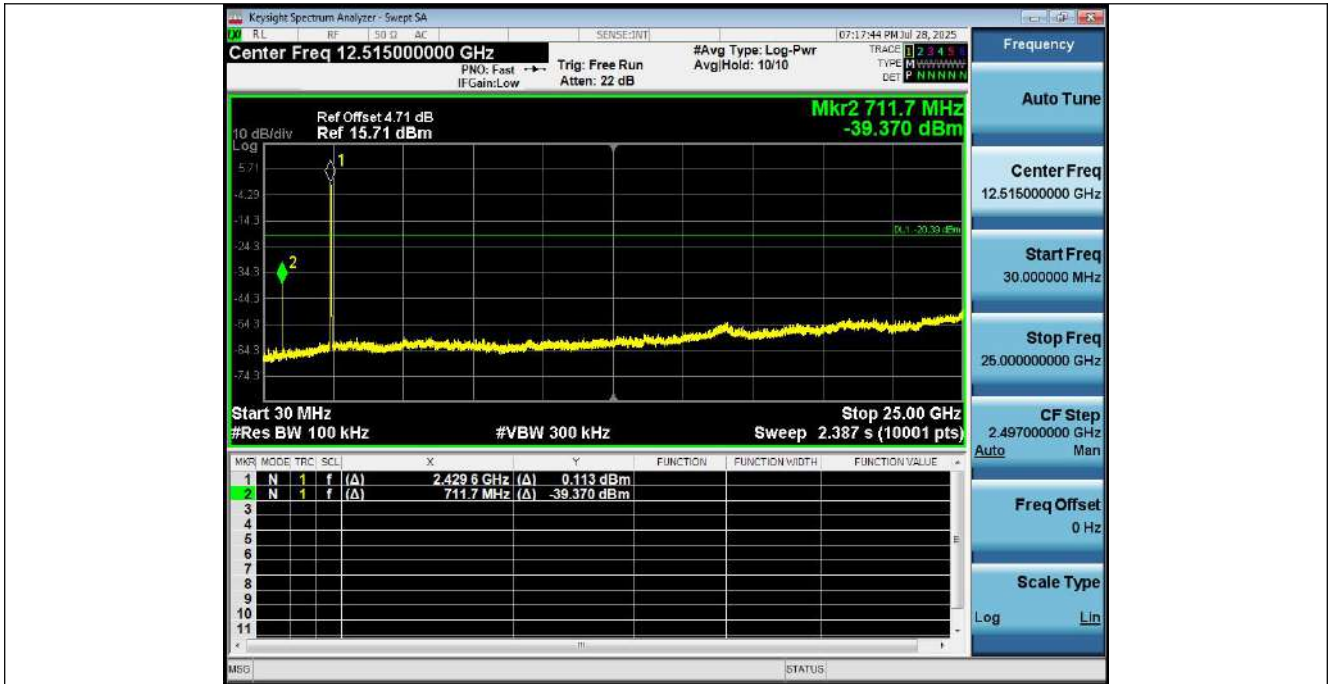
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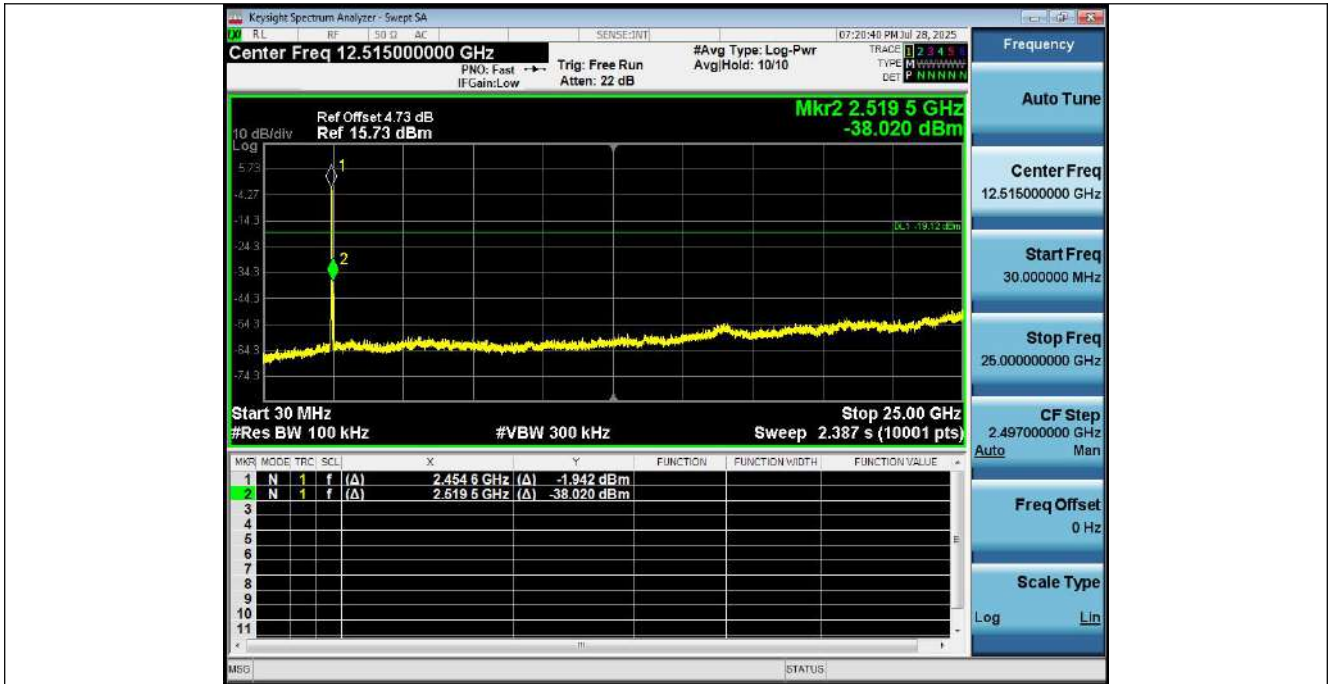
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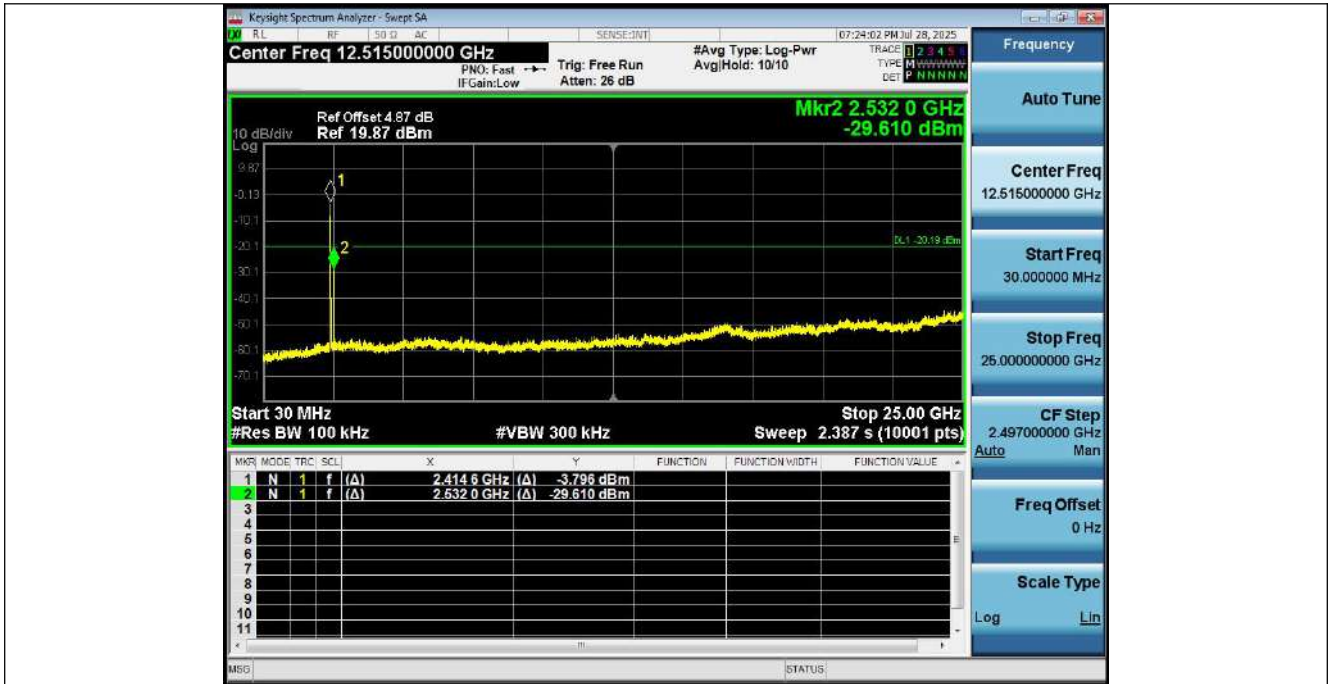
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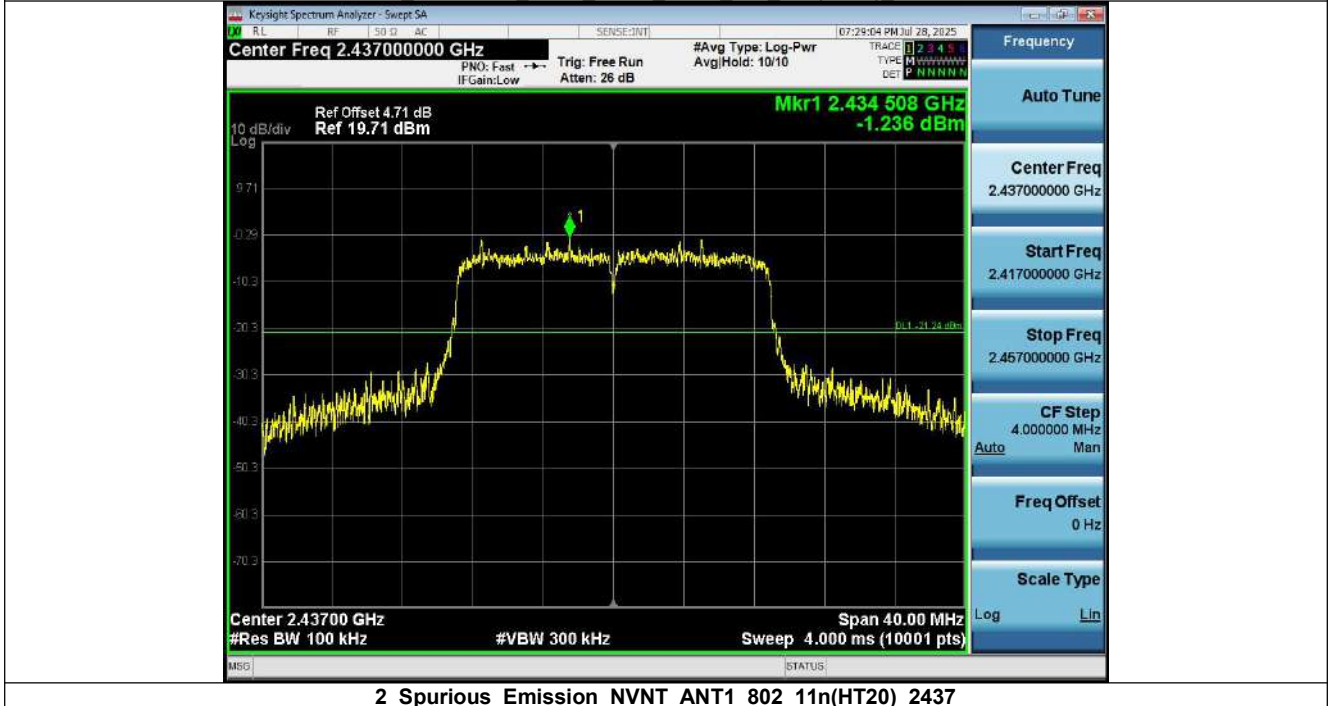
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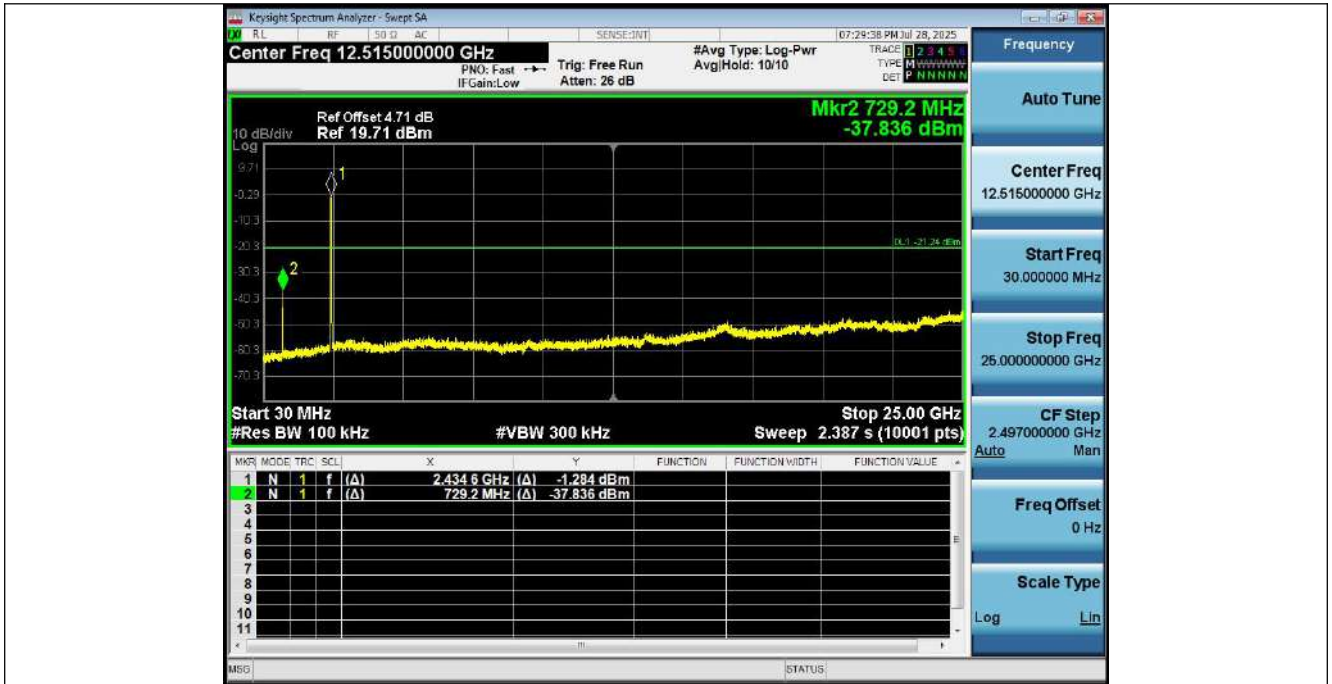
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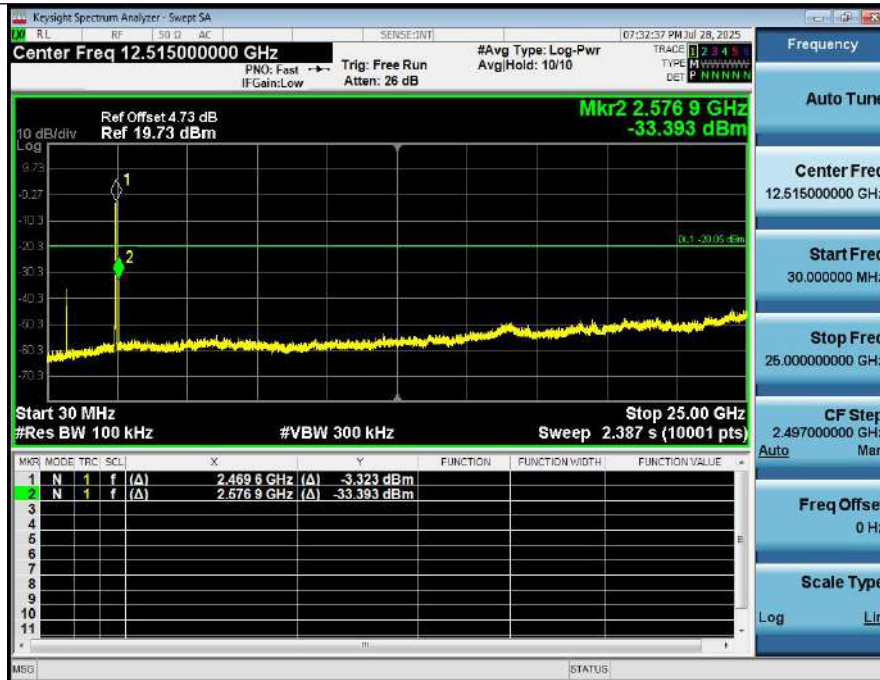
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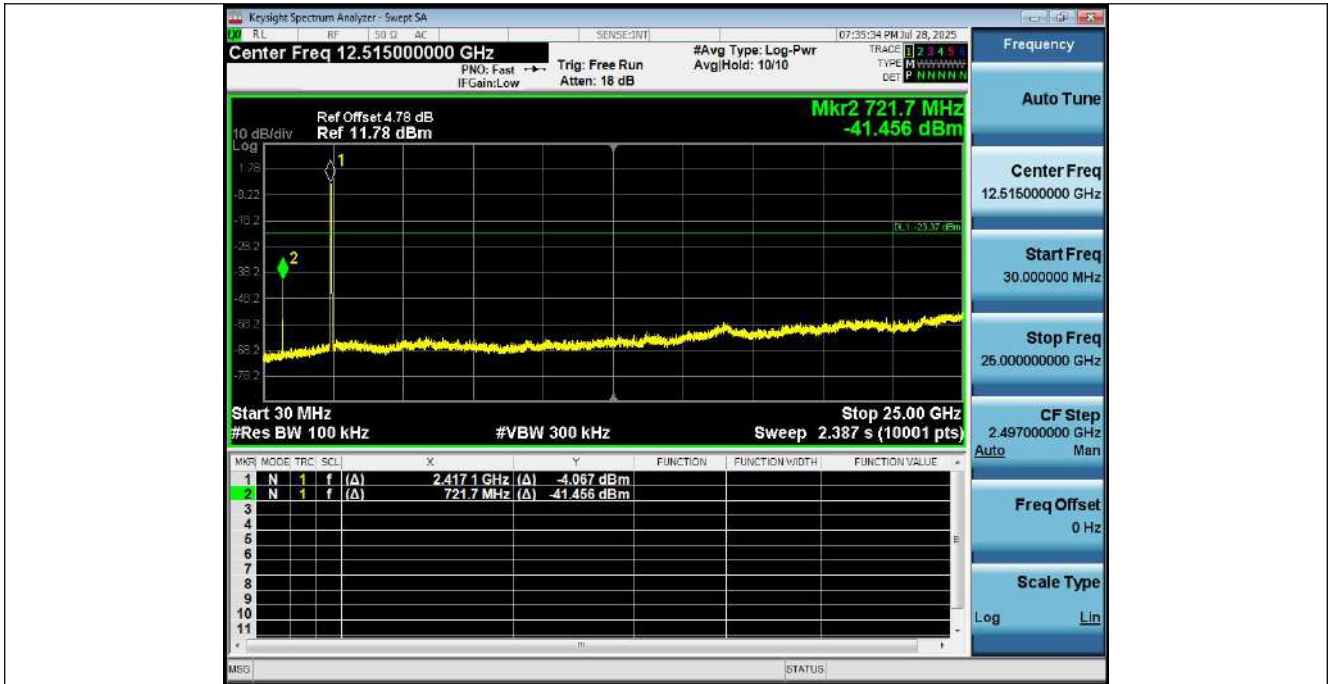
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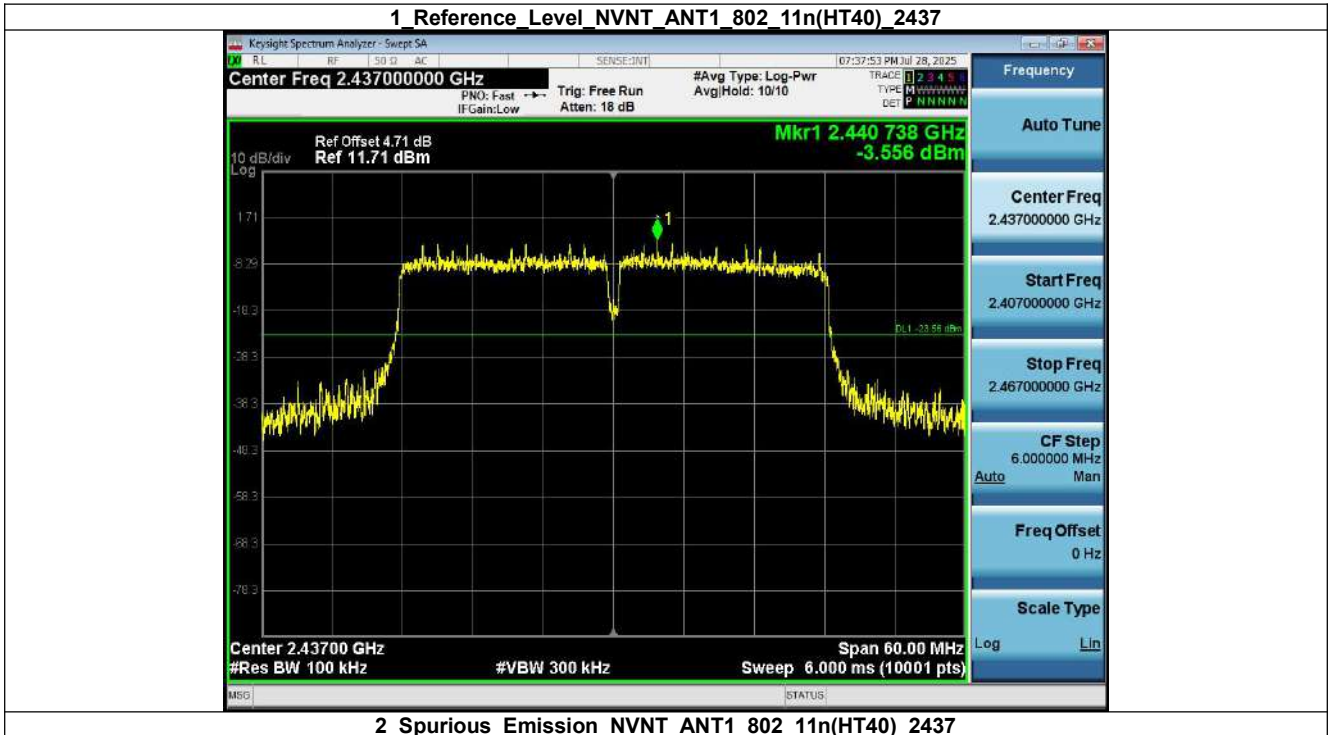
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



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

