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231106 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	9.06	500	Pass
NVNT	ANT1	802.11b	2462.00	9.05	500	Pass
NVNT	ANT1	802.11g	2412.00	15.86	500	Pass
NVNT	ANT1	802.11g	2437.00	16.37	500	Pass
NVNT	ANT1	802.11g	2462.00	15.51	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	15.63	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.24	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.21	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.12	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.46	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.26	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	11.925
NVNT	ANT1	802.11b	2437.00	12.064
NVNT	ANT1	802.11b	2462.00	11.961
NVNT	ANT1	802.11g	2412.00	17.217
NVNT	ANT1	802.11g	2437.00	17.330
NVNT	ANT1	802.11g	2462.00	21.481
NVNT	ANT1	802.11n(HT20)	2412.00	20.672
NVNT	ANT1	802.11n(HT20)	2437.00	17.896
NVNT	ANT1	802.11n(HT20)	2462.00	19.844
NVNT	ANT1	802.11n(HT40)	2422.00	36.752
NVNT	ANT1	802.11n(HT40)	2437.00	37.300
NVNT	ANT1	802.11n(HT40)	2452.00	36.357



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

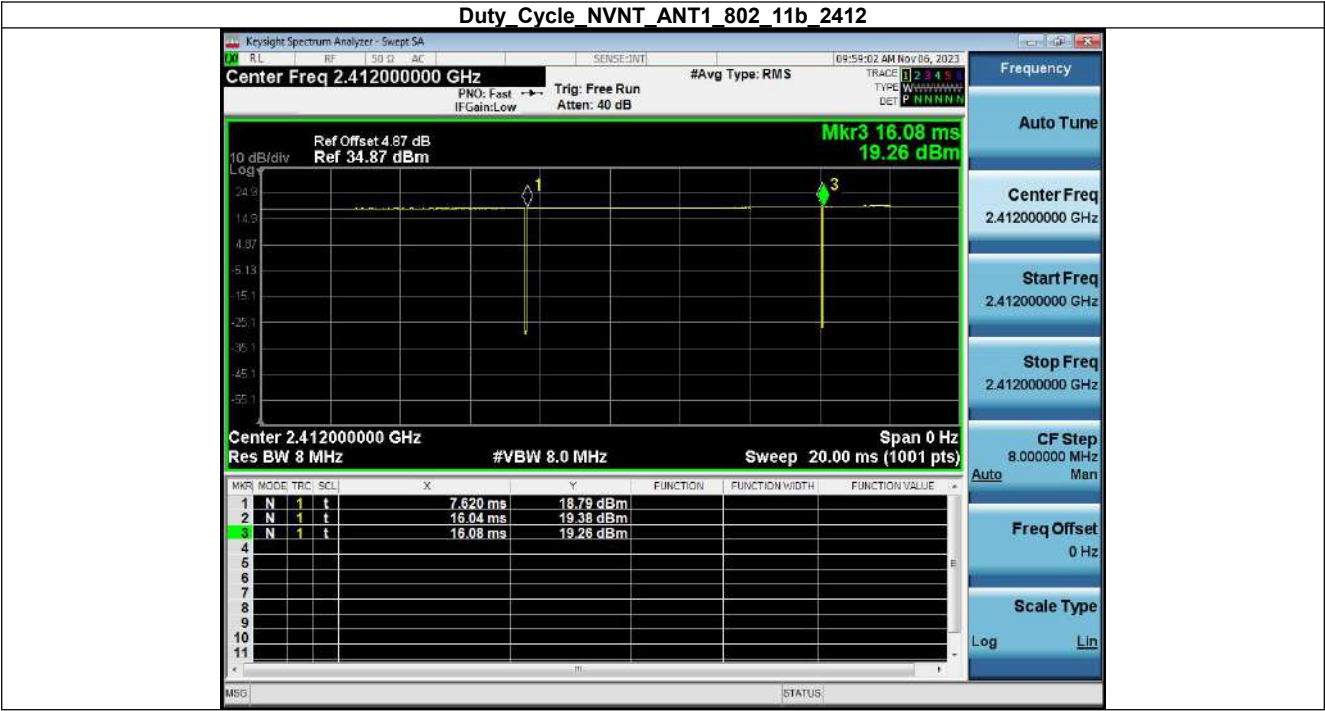


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

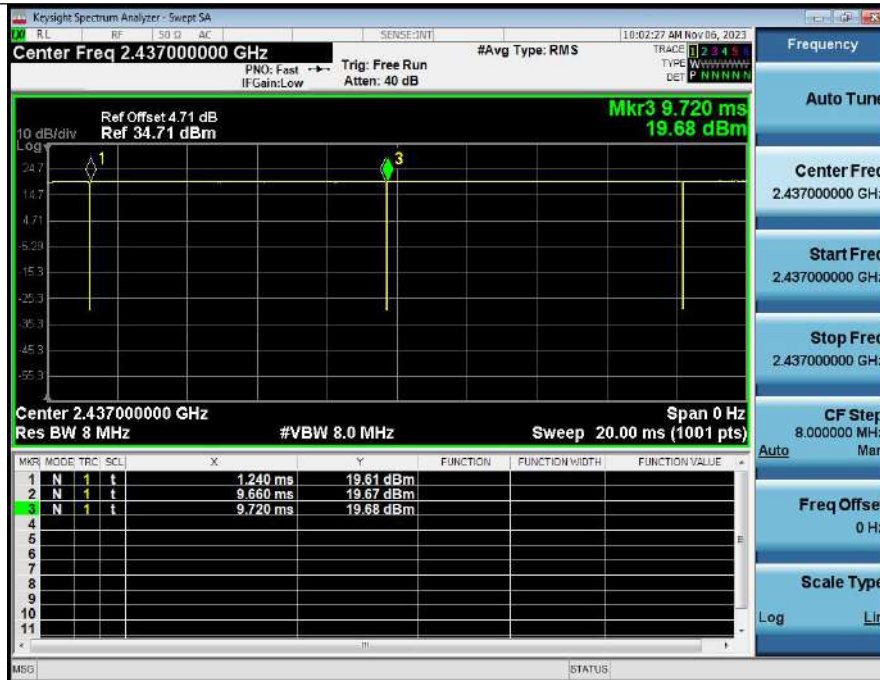


3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	98.61	0.00
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.22	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	96.72	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



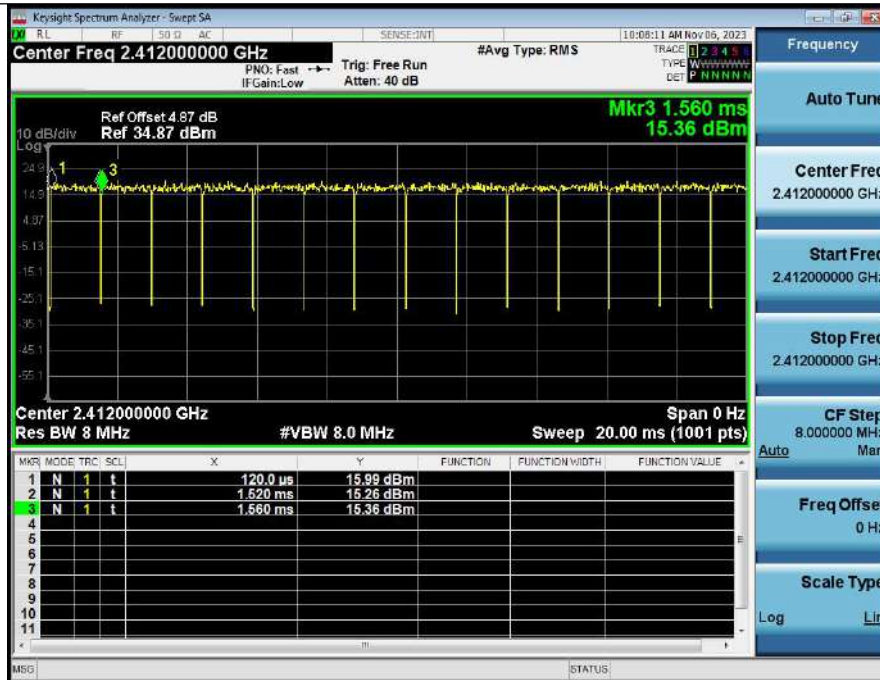
Duty Cycle NVNT ANT1 802_11b_2437



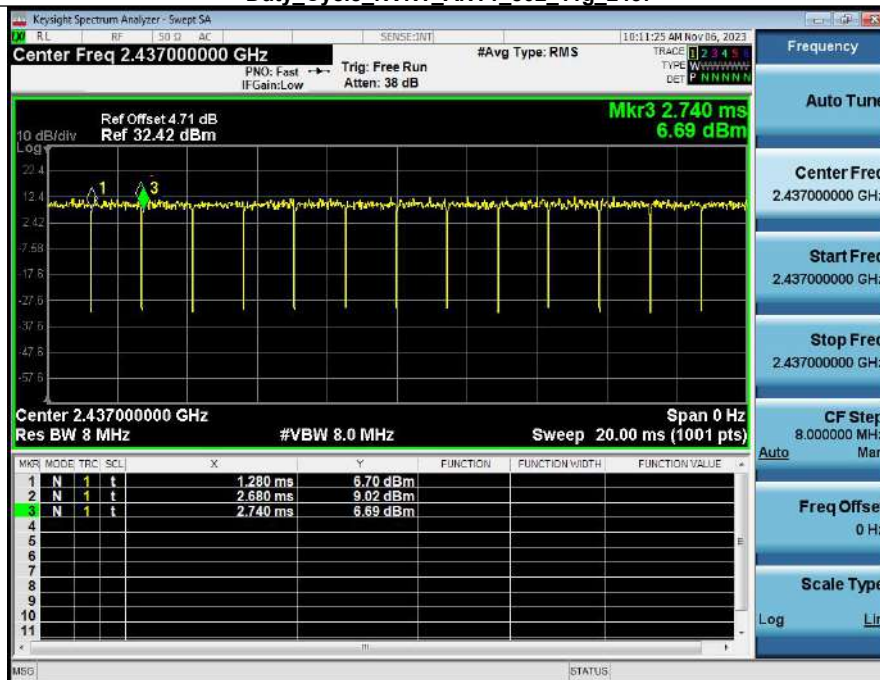
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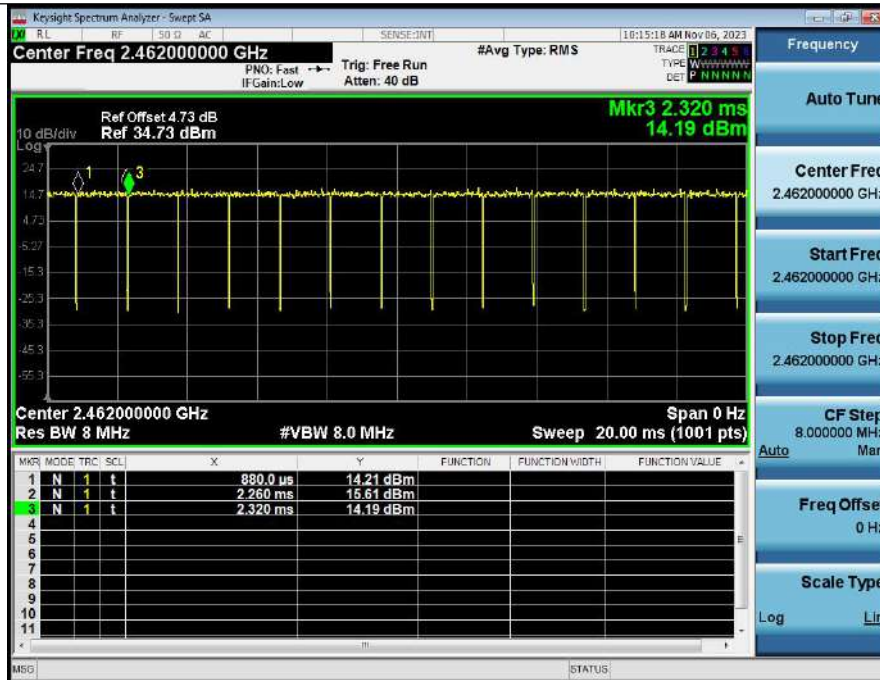
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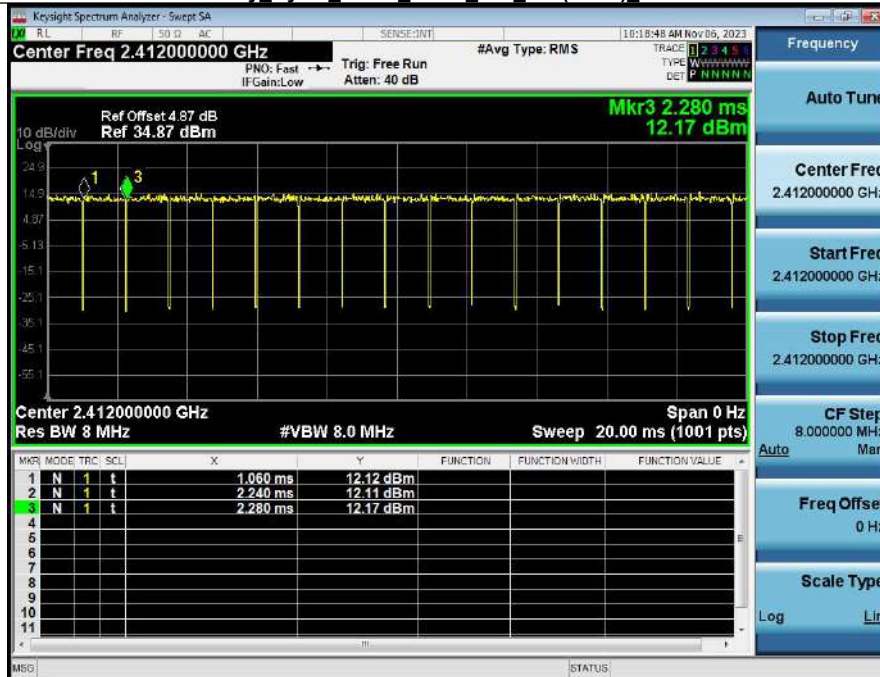
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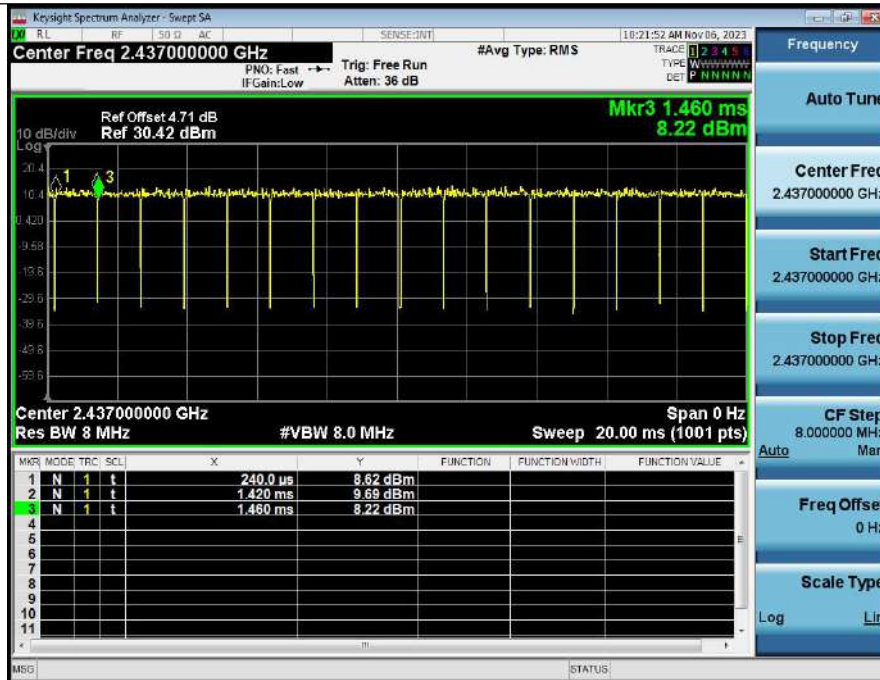
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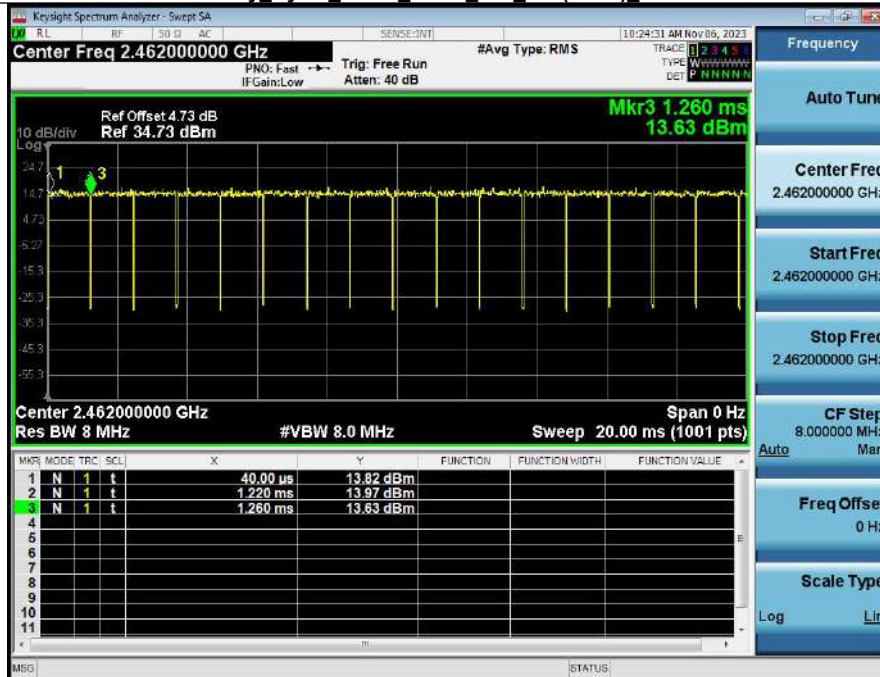
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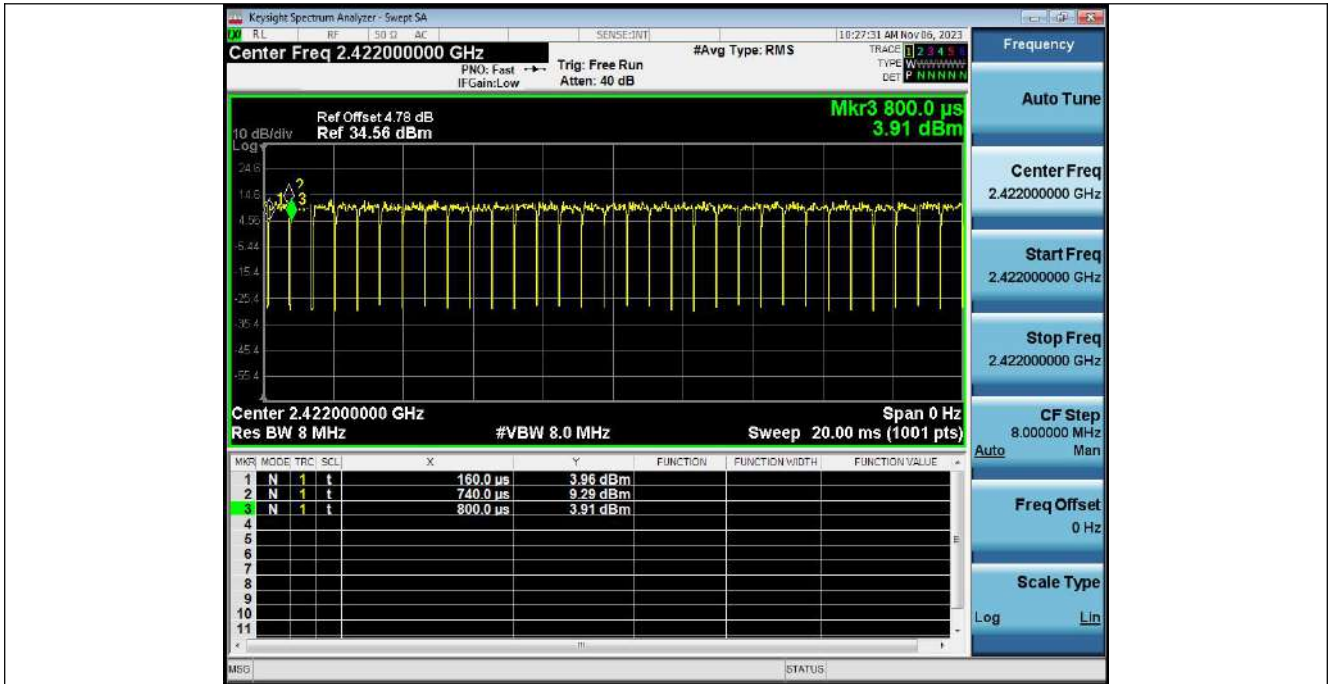
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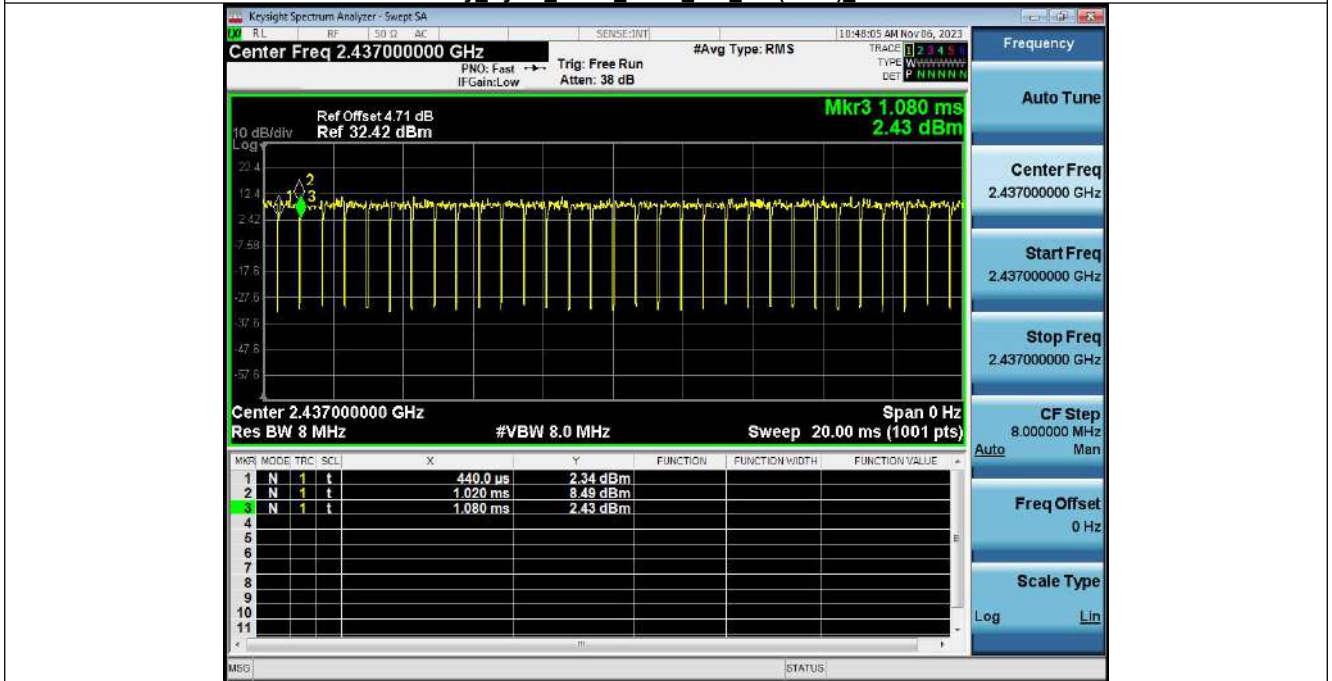
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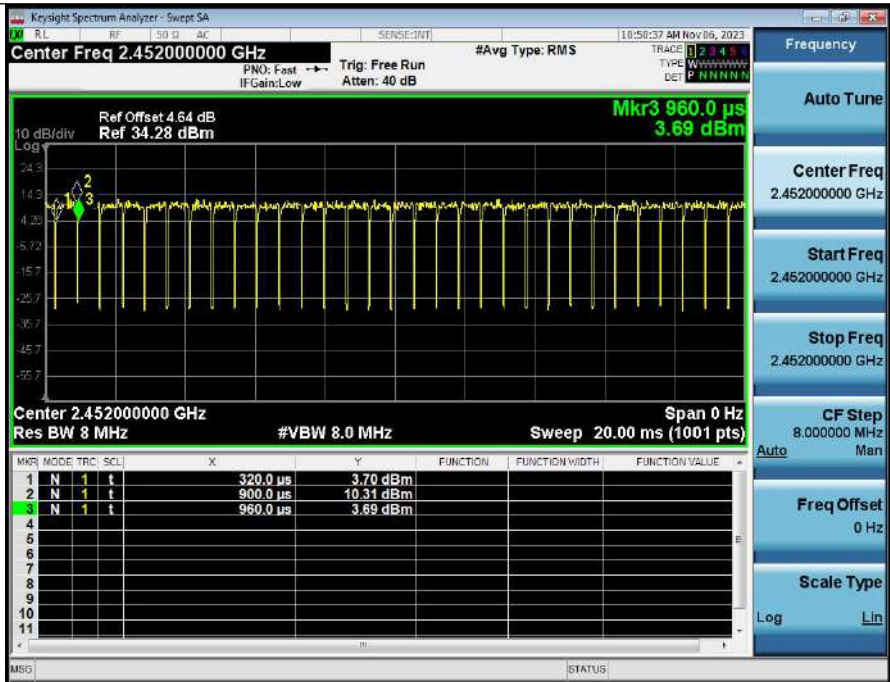
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Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



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	2.42	-10.00	-7.58	8	Pass
NVNT	ANT1	802.11b	2437.00	3.17	-10.00	-6.83	8	Pass
NVNT	ANT1	802.11b	2462.00	3.53	-10.00	-6.47	8	Pass
NVNT	ANT1	802.11g	2412.00	-2.26	-10.00	-12.26	8	Pass
NVNT	ANT1	802.11g	2437.00	-10.83	-10.00	-20.83	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.94	-10.00	-13.94	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-6.17	-10.00	-16.16	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-8.68	-10.00	-18.68	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.17	-10.00	-14.17	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-9.24	-10.00	-19.24	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-10.85	-10.00	-20.85	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-9.32	-10.00	-19.32	8	Pass



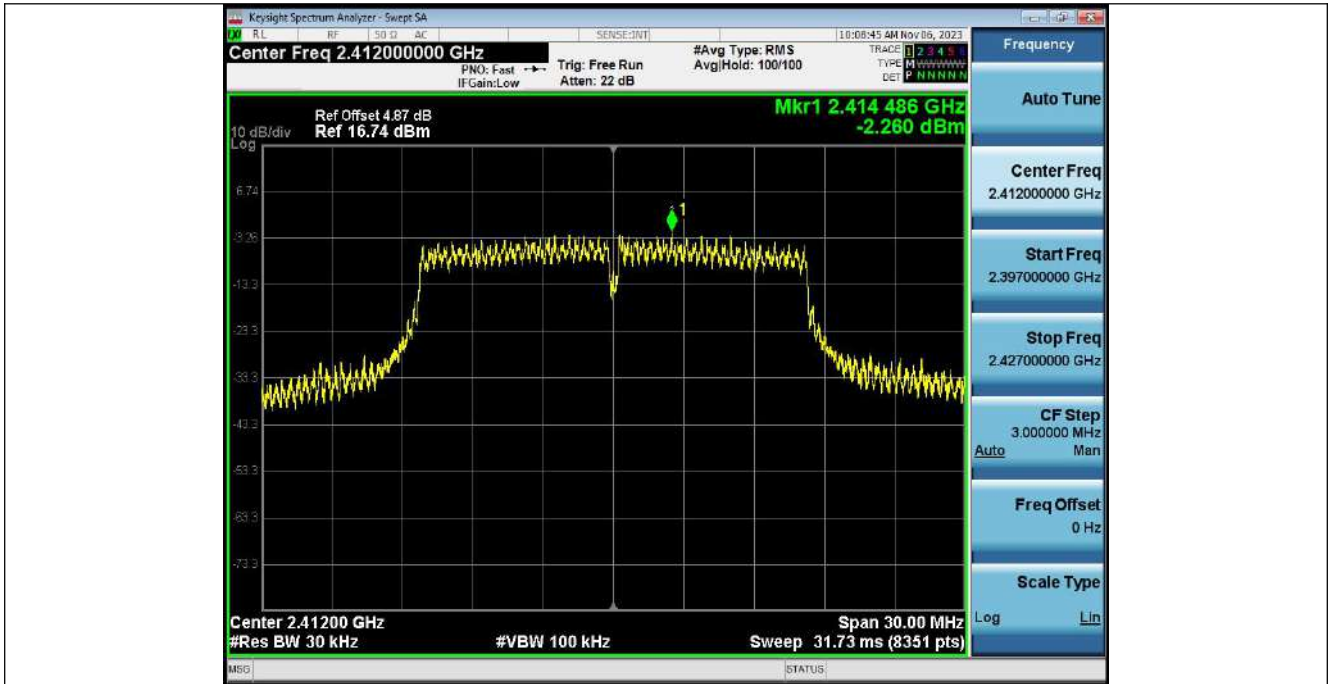
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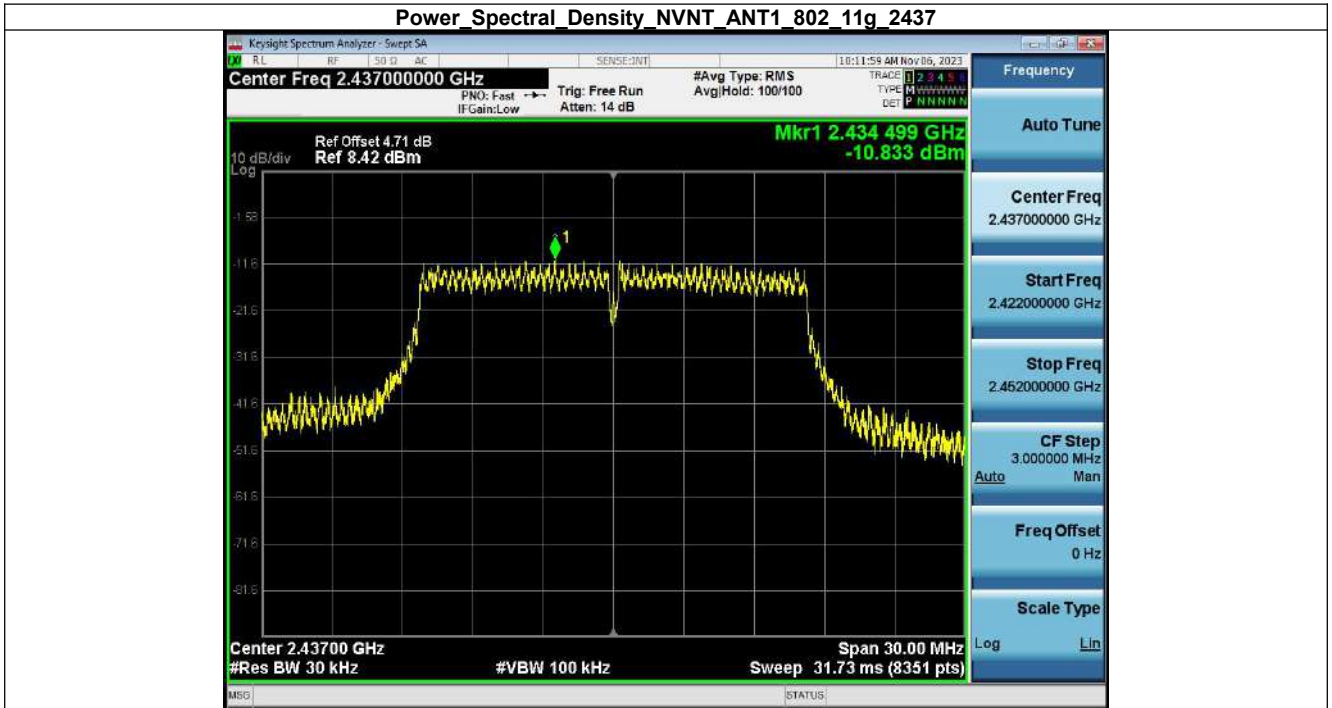
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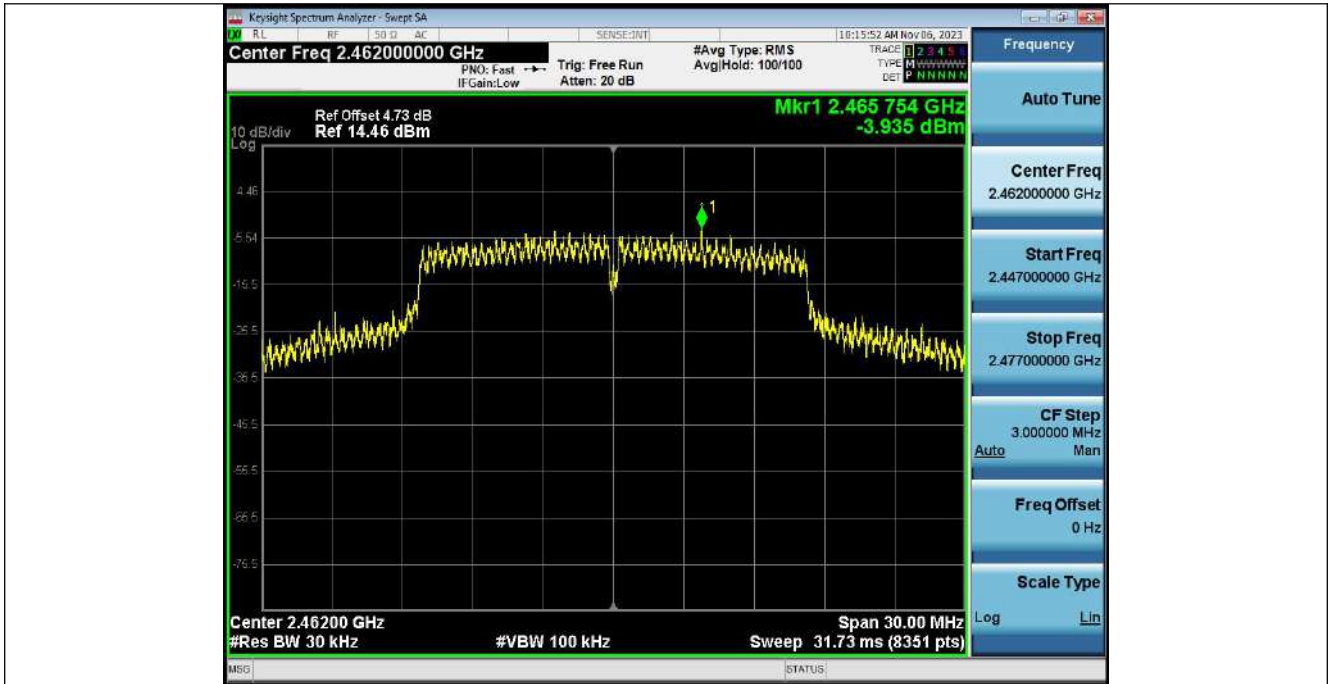
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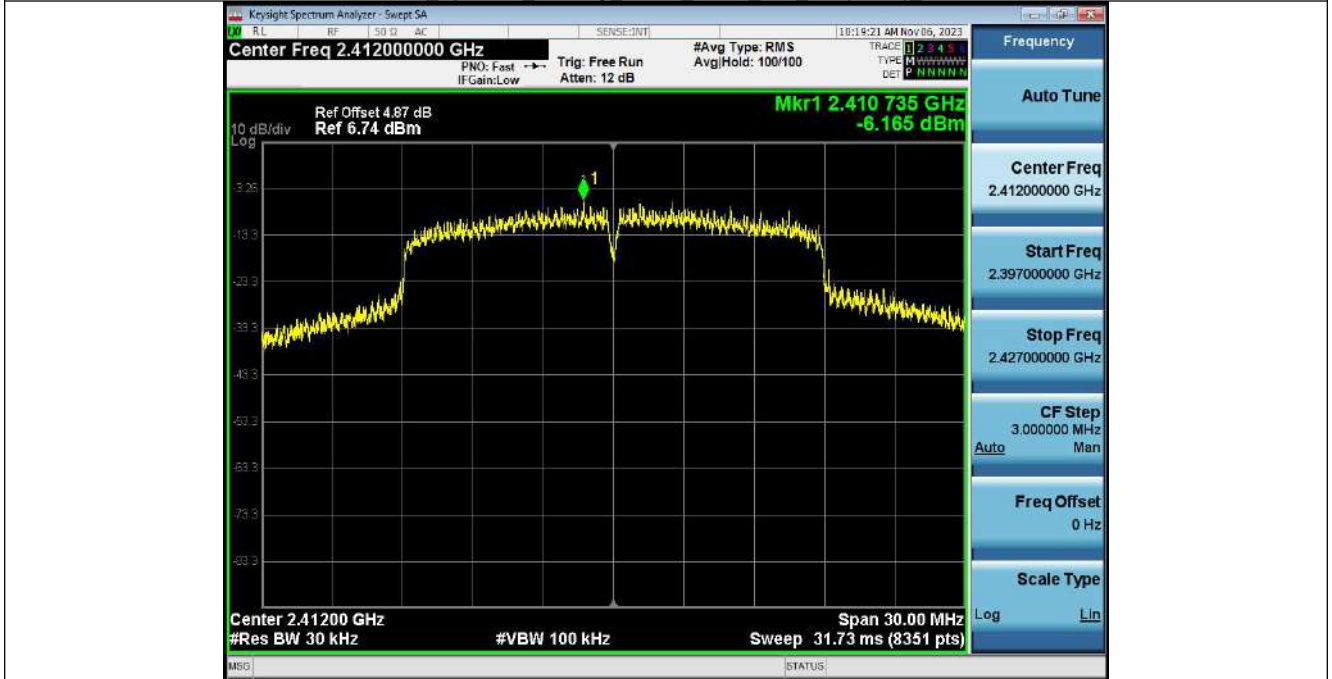
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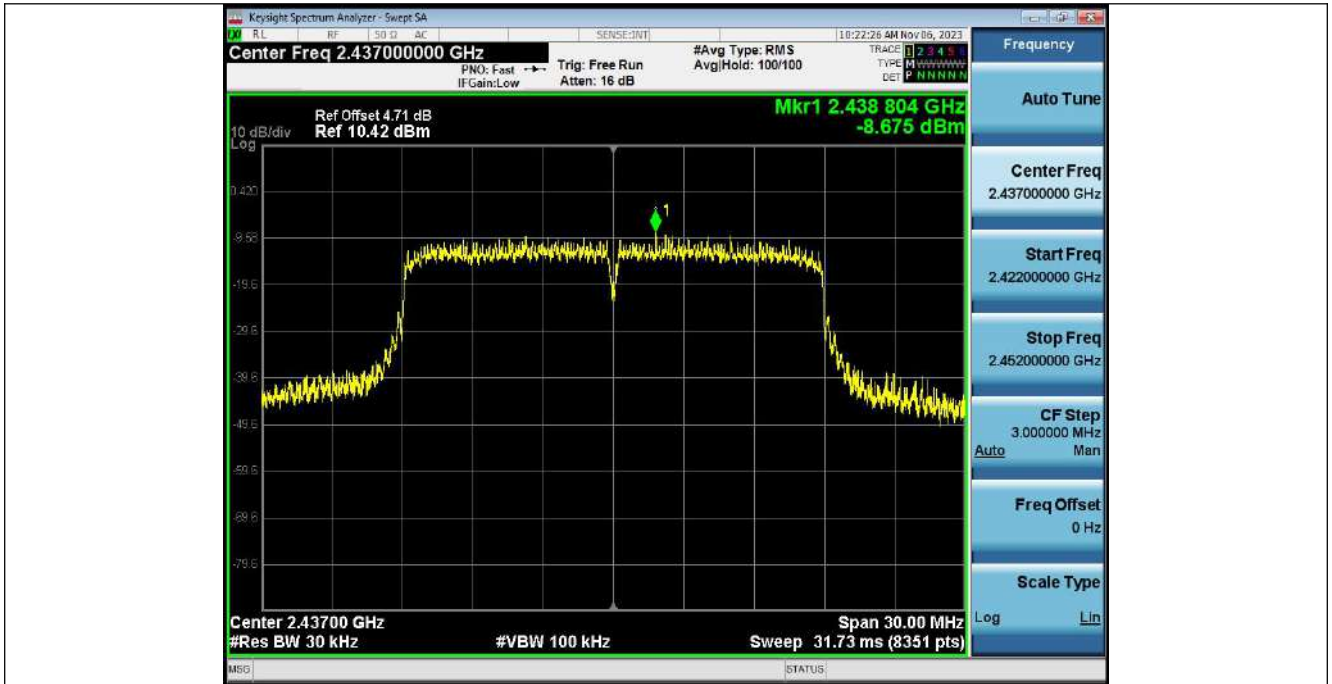
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



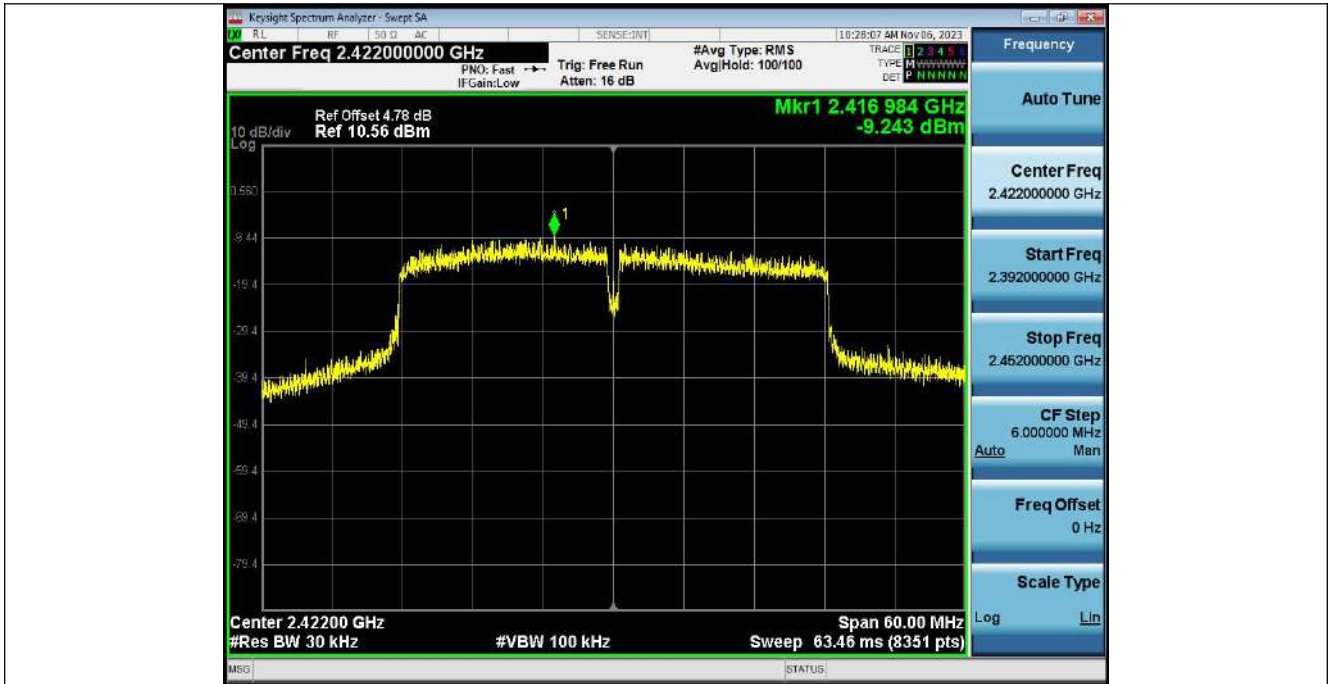
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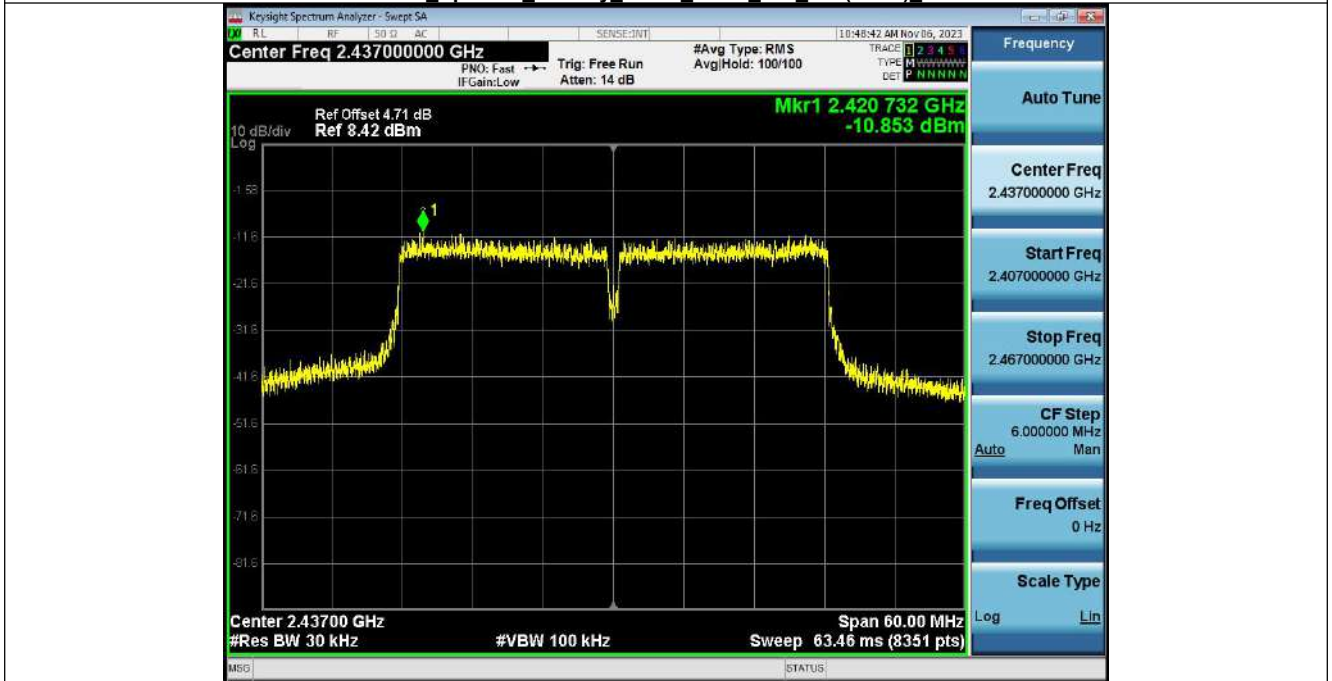
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



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_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-37.177	-13.770	Pass
NVNT	ANT1	802.11b	2462.00	2483.968	-54.155	-13.261	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	-26.400	-17.905	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-34.824	-19.505	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.704	-25.086	-21.243	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.208	-34.571	-19.405	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.496	-29.785	-23.830	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.544	-35.057	-24.805	Pass



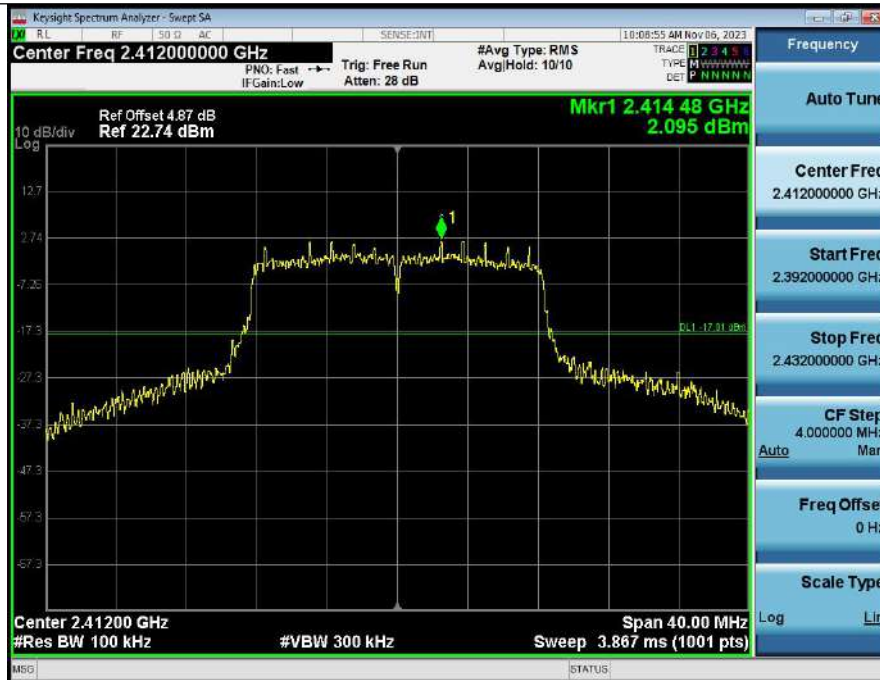
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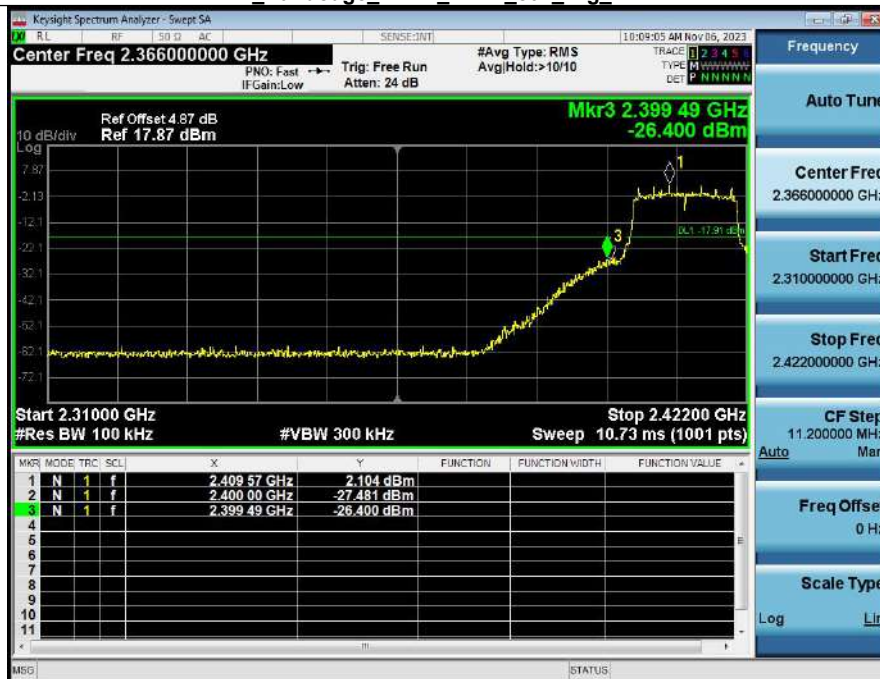
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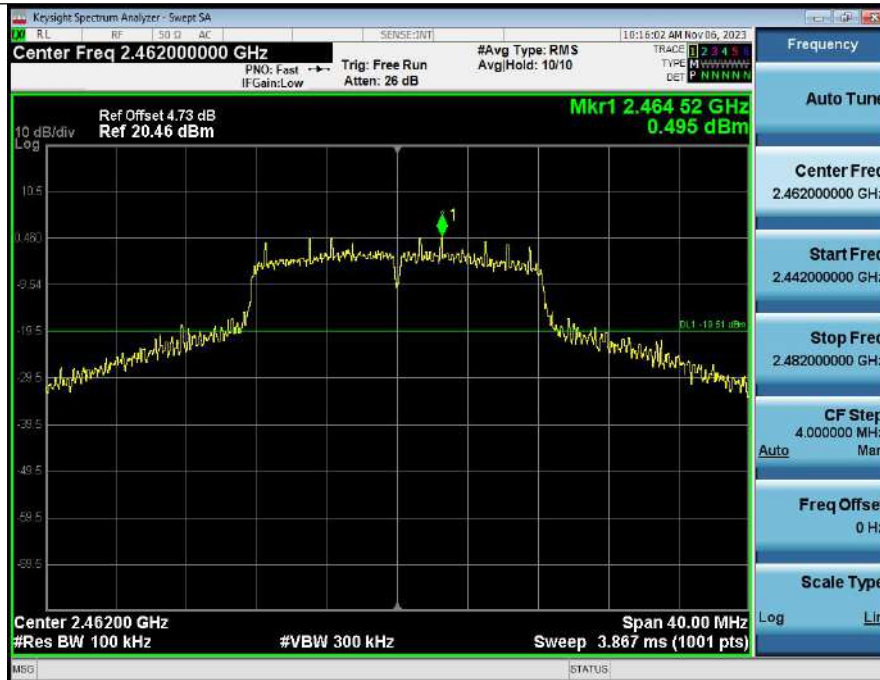
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2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



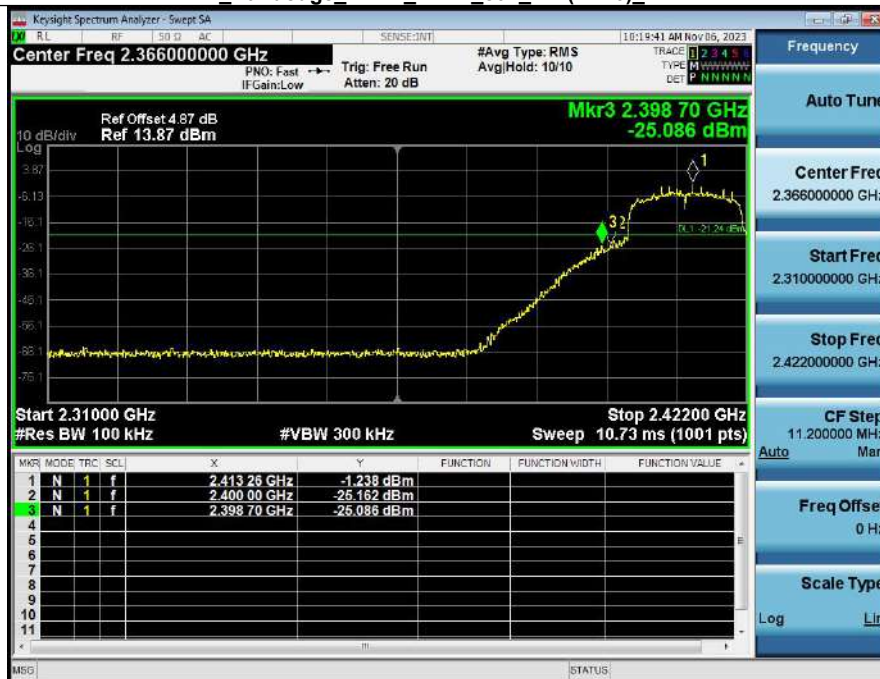
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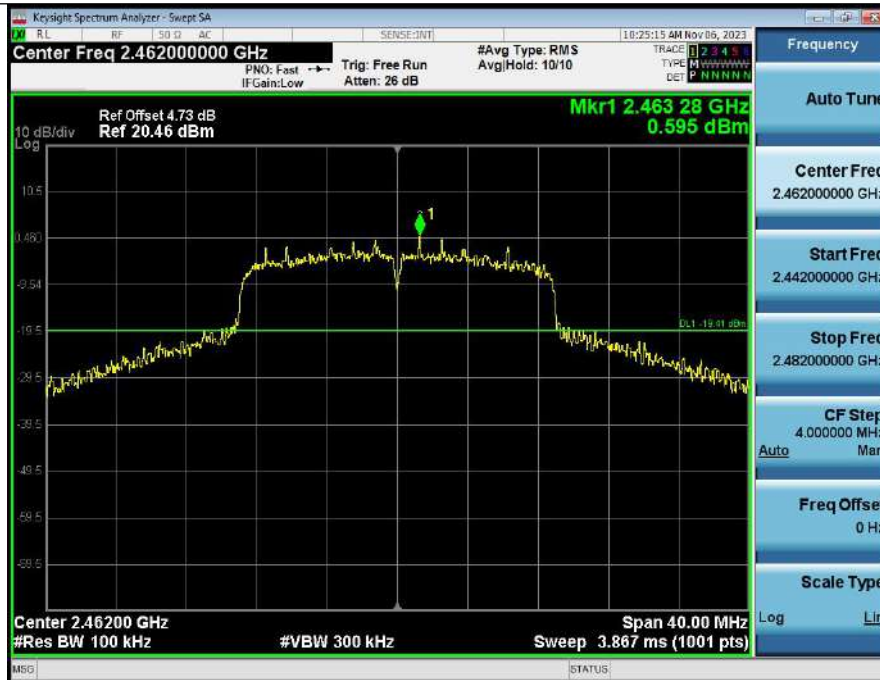
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



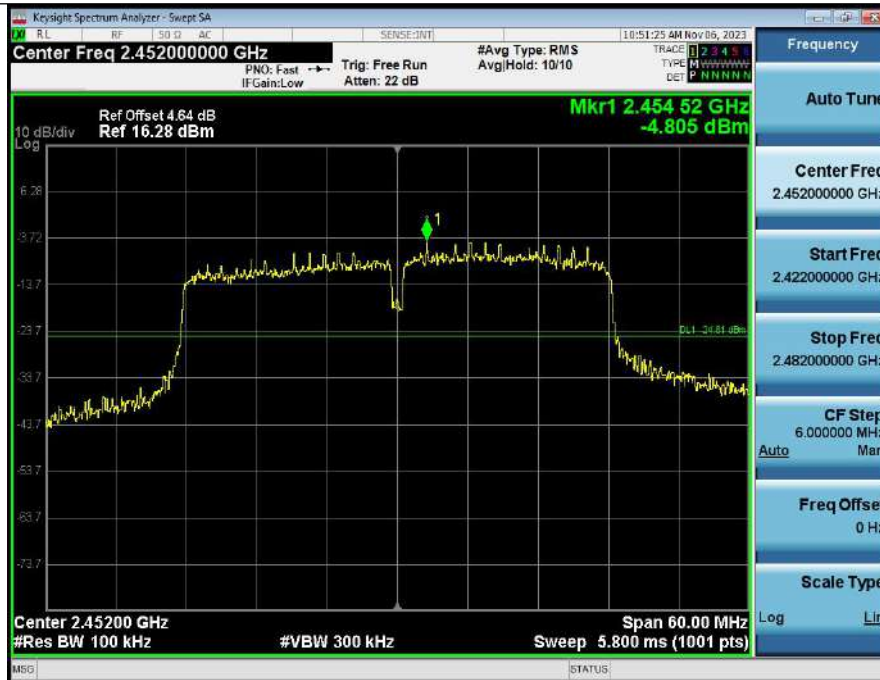
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2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



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_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24942.569	-46.131	-13.770	Pass
NVNT	ANT1	802.11b	2437.00	24960.048	-49.684	-13.214	Pass
NVNT	ANT1	802.11b	2462.00	24985.018	-45.884	-13.261	Pass
NVNT	ANT1	802.11g	2412.00	24990.012	-50.149	-17.905	Pass
NVNT	ANT1	802.11g	2437.00	49.976	-51.024	-17.124	Pass
NVNT	ANT1	802.11g	2462.00	49.976	-50.234	-19.505	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	52.473	-50.781	-21.243	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	52.473	-50.429	-24.380	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24443.169	-51.997	-19.405	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	52.473	-51.143	-23.830	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	898.956	-49.584	-26.293	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	49.976	-54.074	-24.805	Pass

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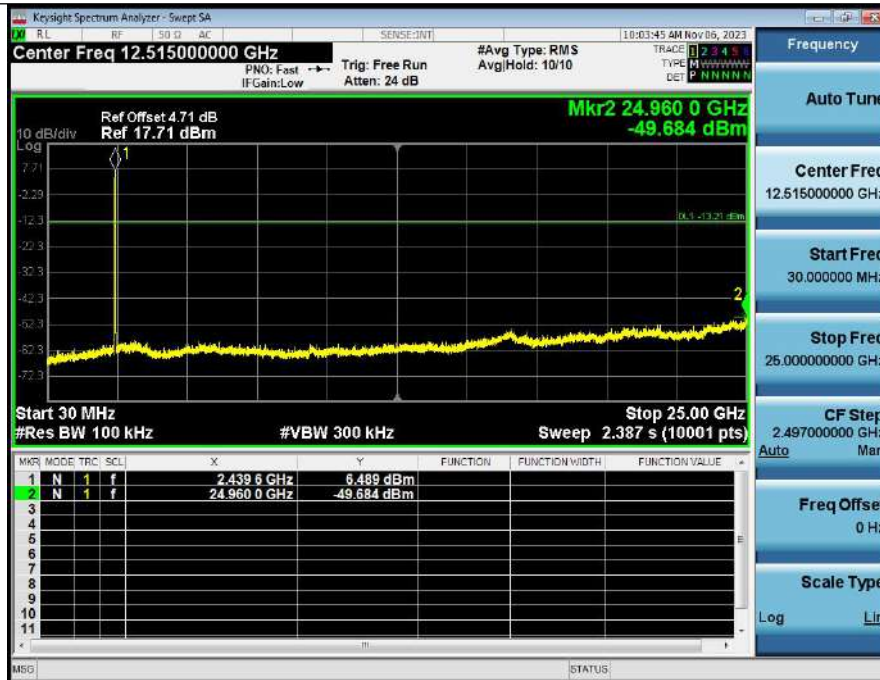
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1 Reference Level NVNT ANT1 802 11b 2437



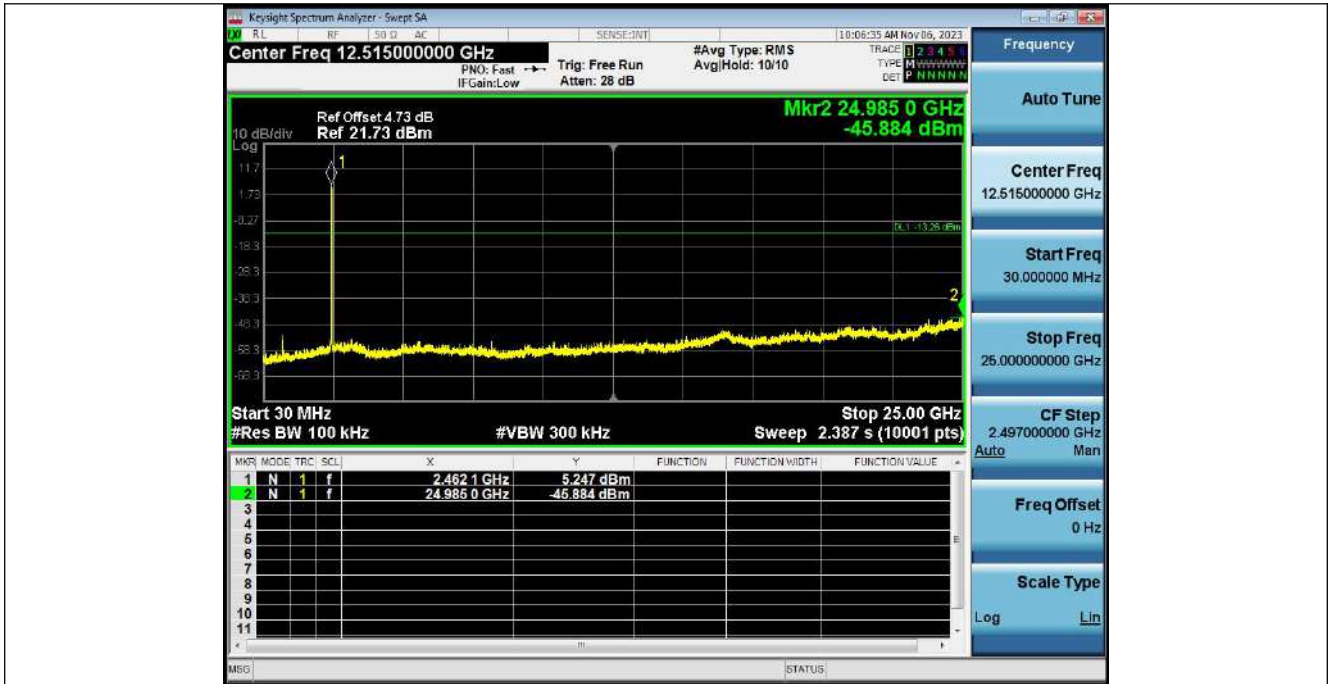
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1 Reference Level NVNT_ANT1_802_11b_2462



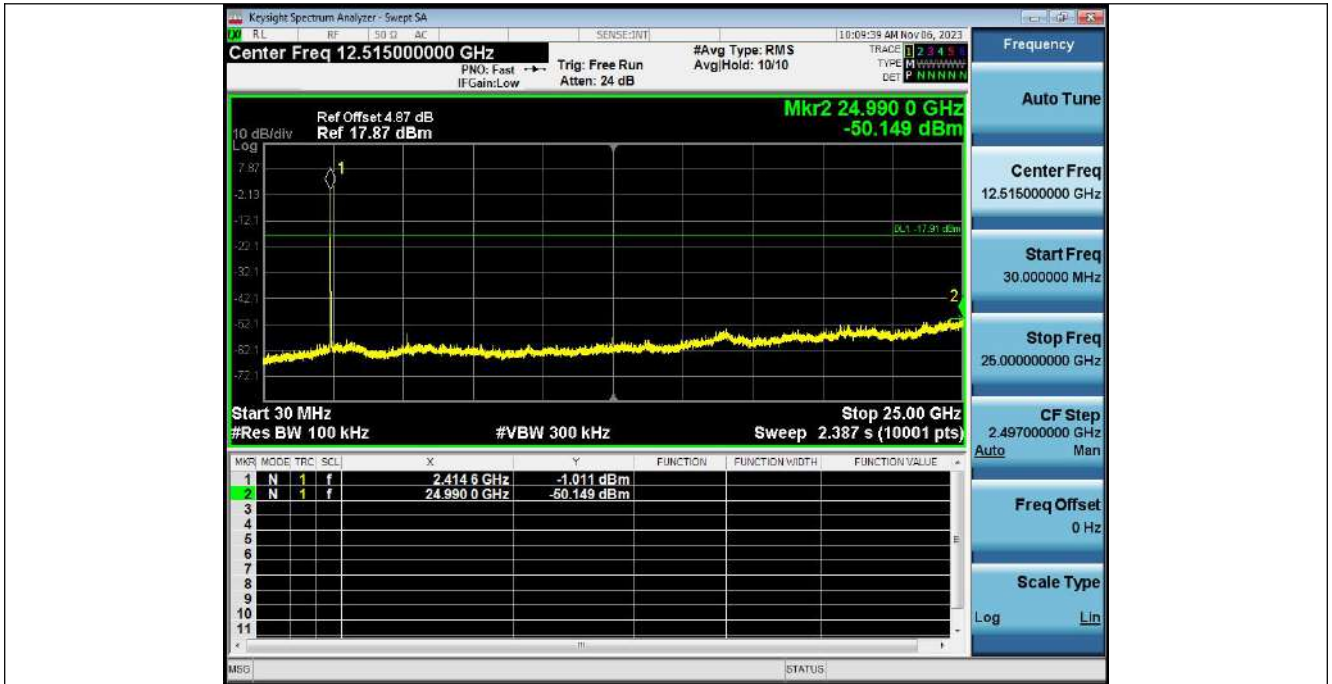
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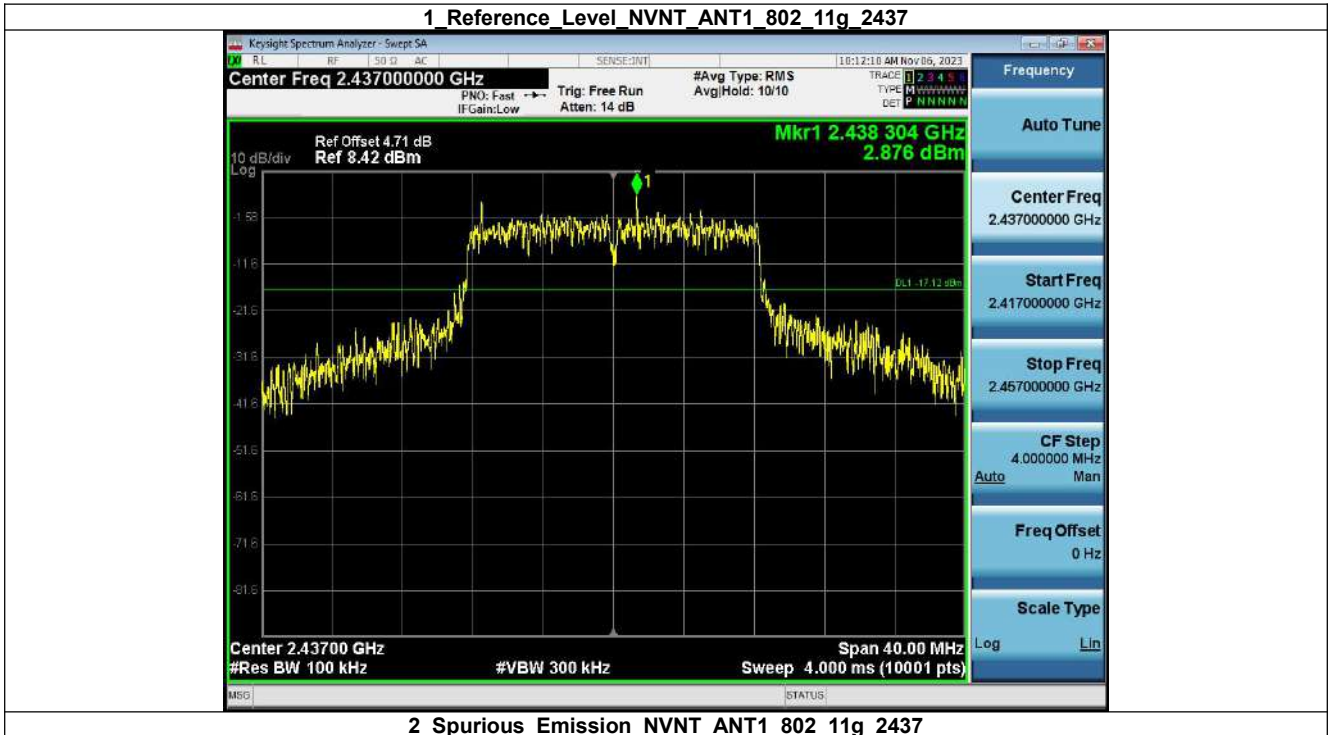
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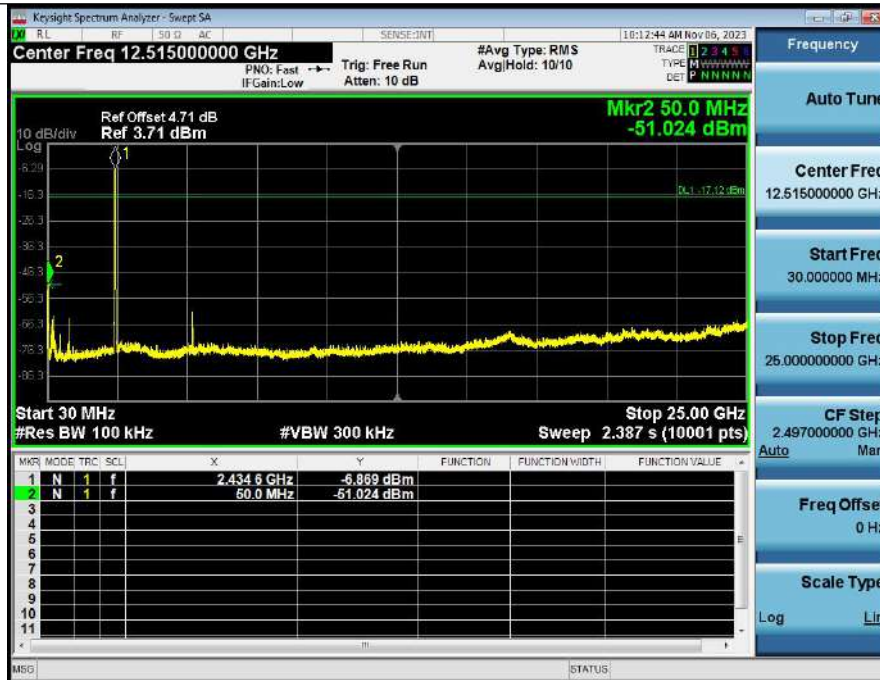
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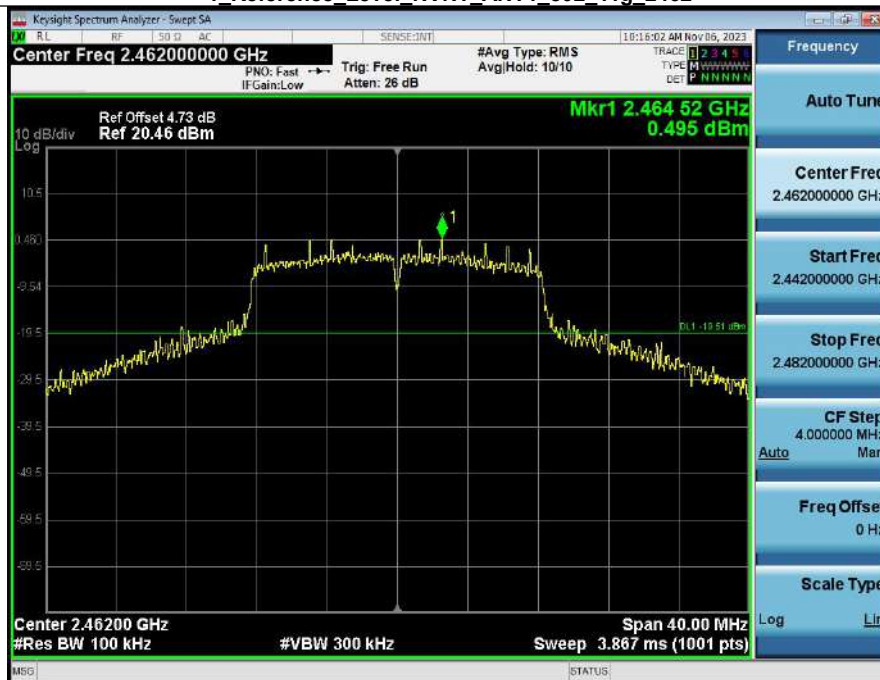
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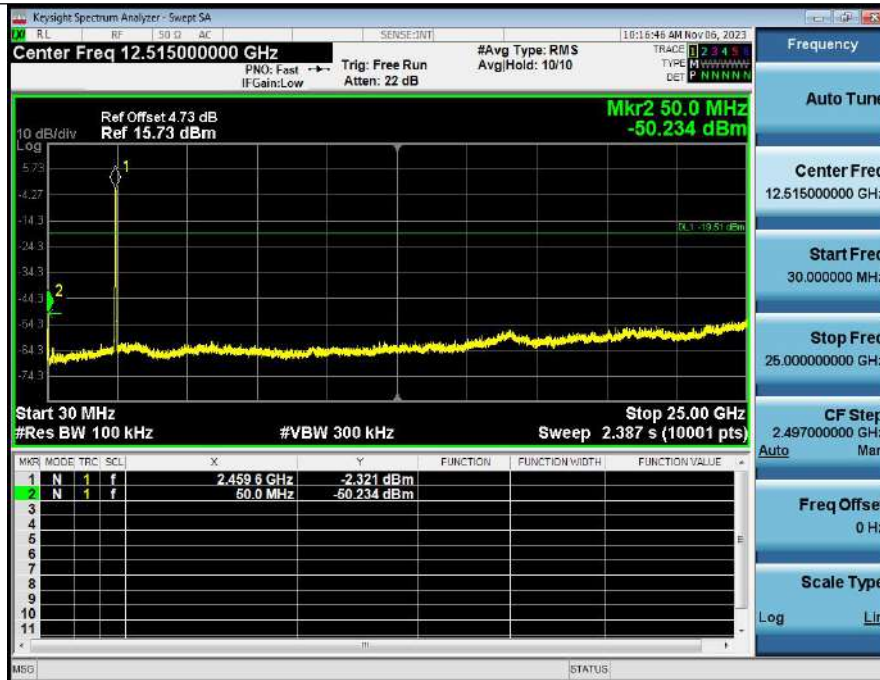
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1 Reference Level NVNT_ANT1_802_11g_2462



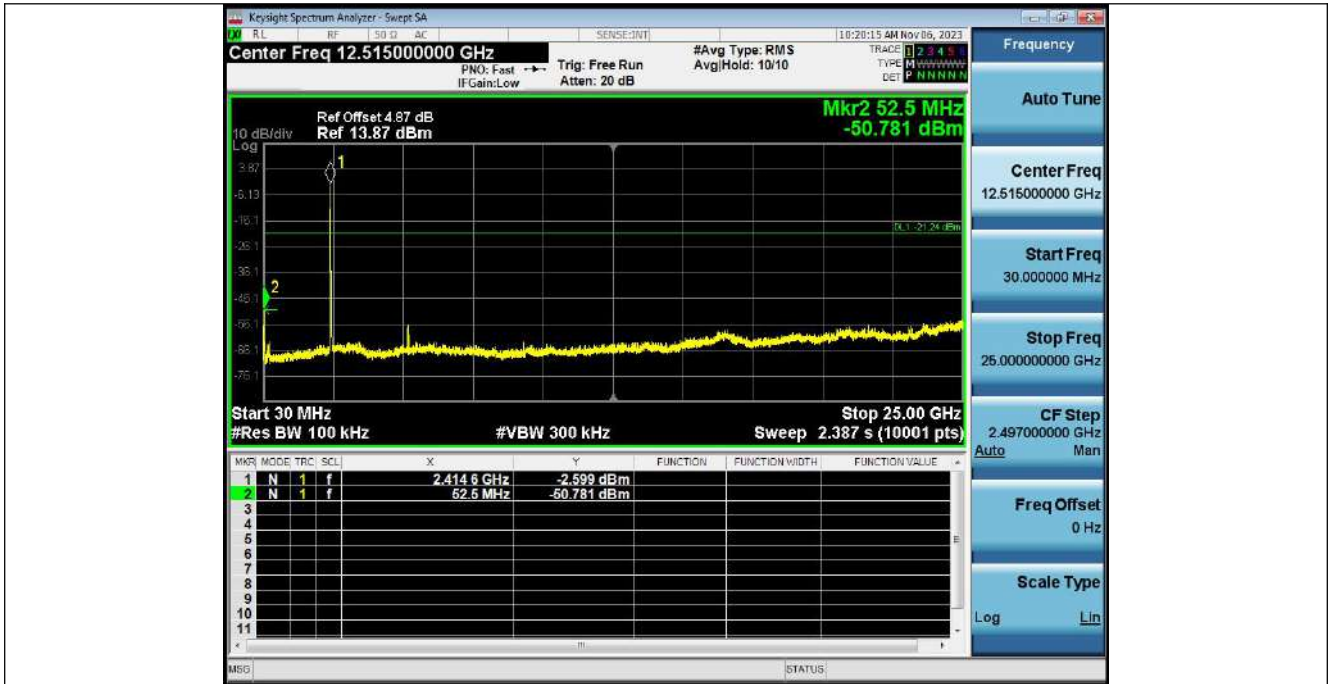
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1 Reference Level NVNT ANT1 802 11n(HT20) 2412



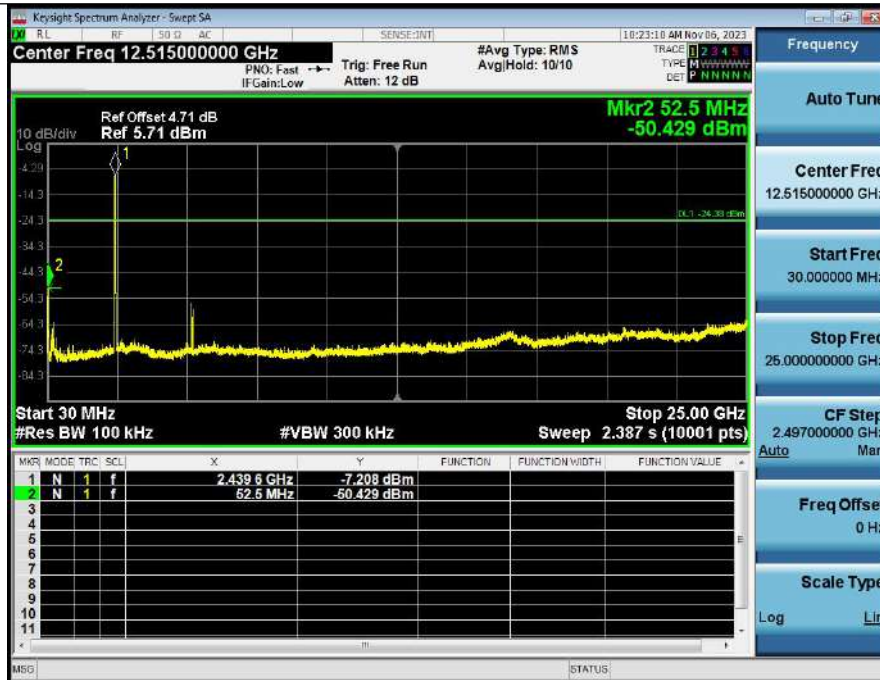
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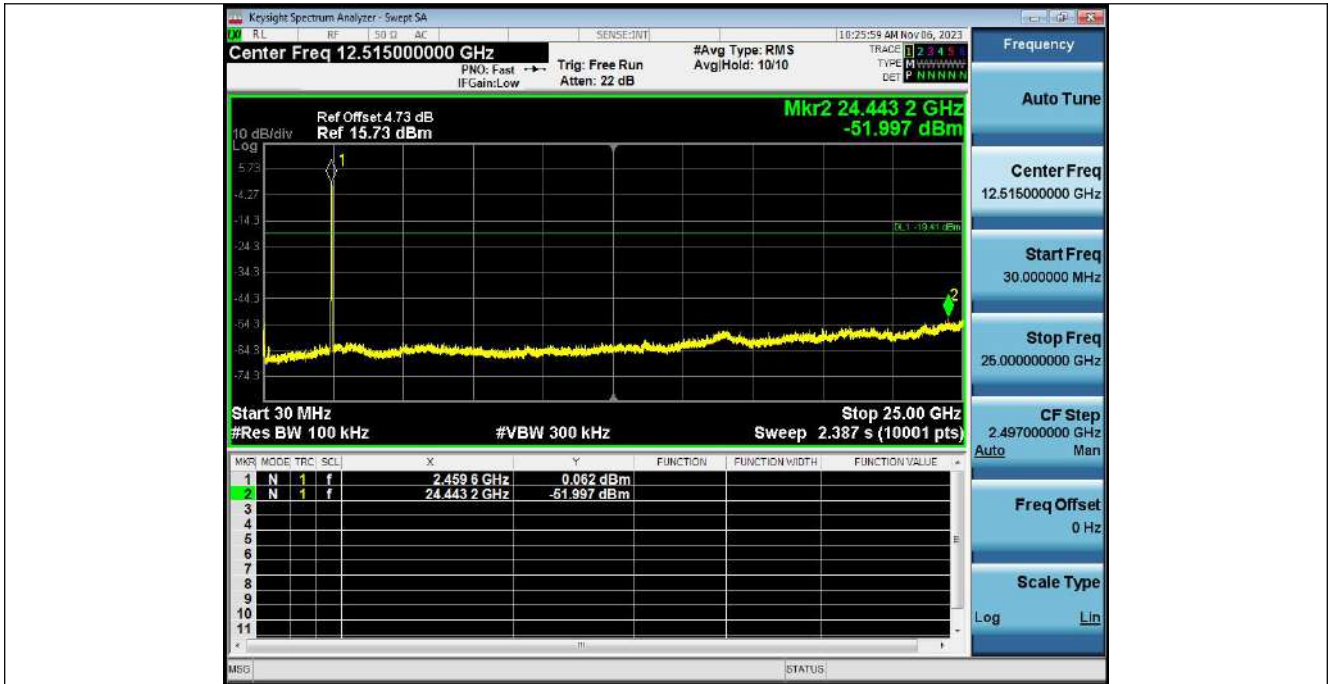
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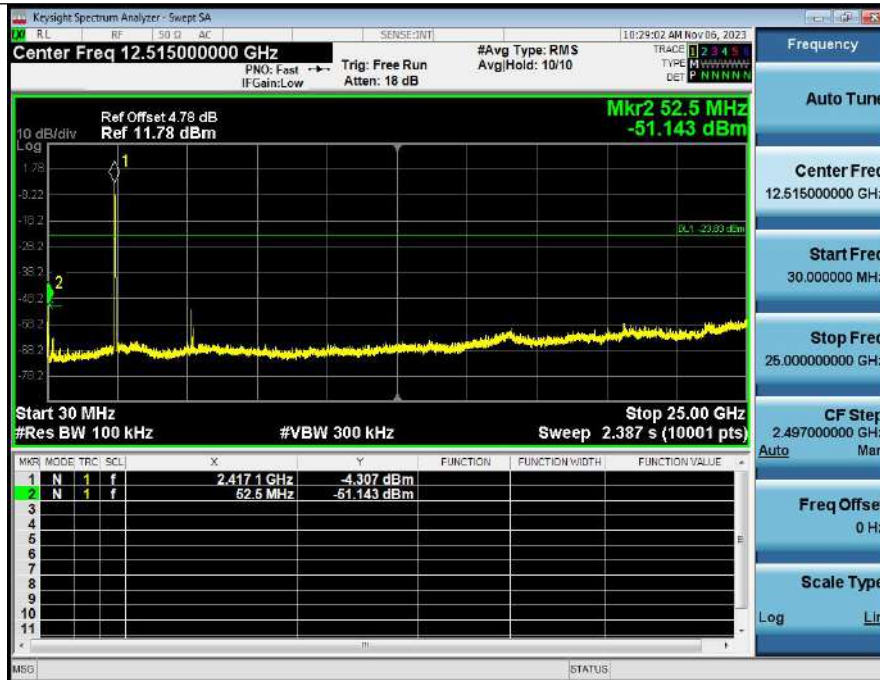
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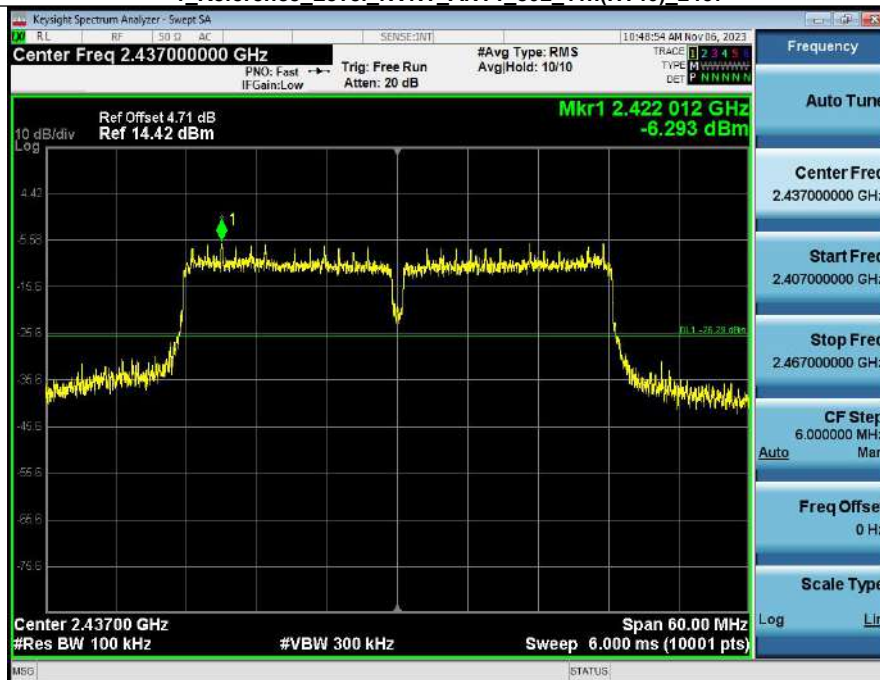
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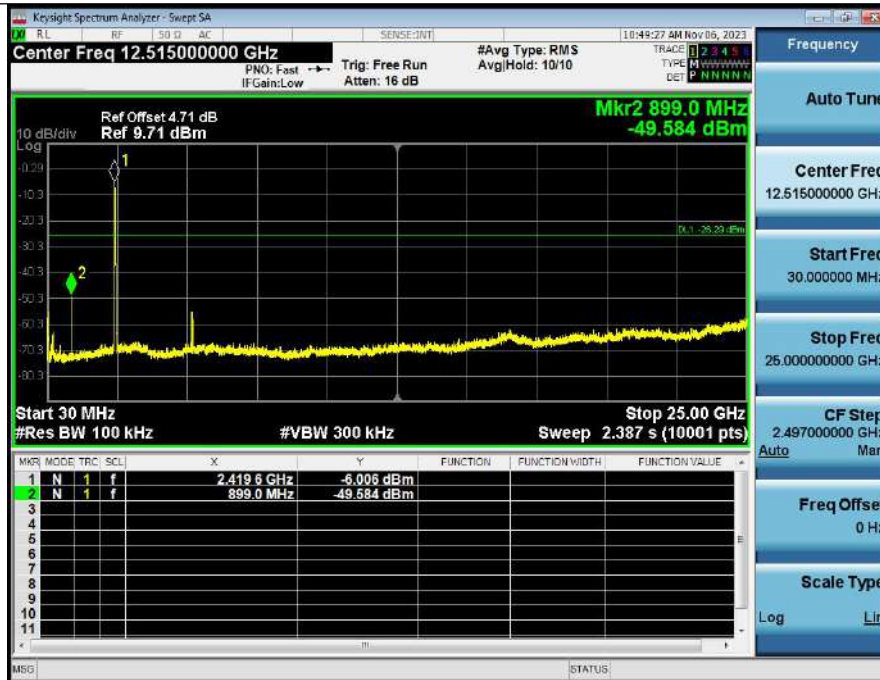
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1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



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

