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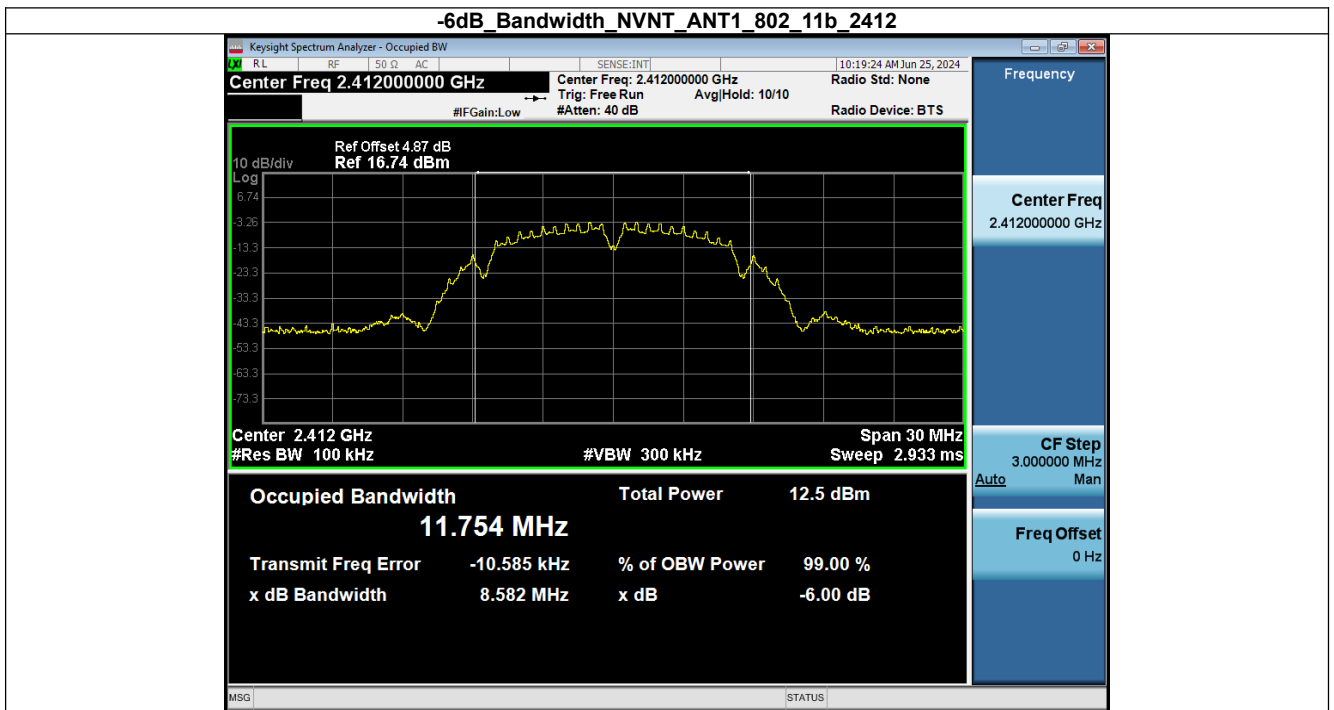
7. Spurious Emission38

FCC ID:2BHAX-TY-AX71-X

FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

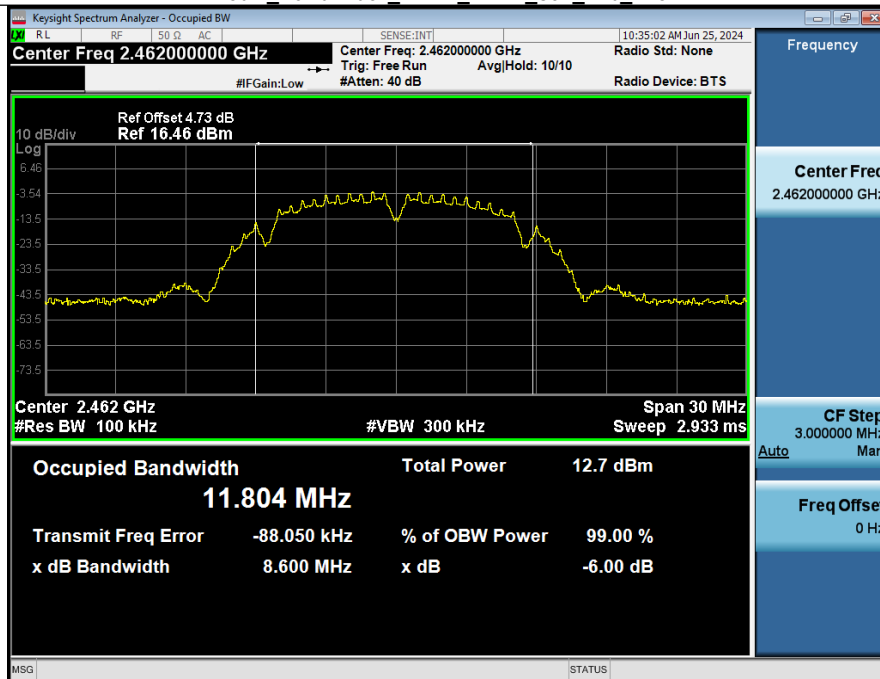
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.58	500	Pass
NVNT	ANT1	802.11b	2437.00	8.59	500	Pass
NVNT	ANT1	802.11b	2462.00	8.60	500	Pass
NVNT	ANT1	802.11g	2412.00	16.30	500	Pass
NVNT	ANT1	802.11g	2437.00	16.30	500	Pass
NVNT	ANT1	802.11g	2462.00	16.11	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.89	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.02	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.03	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.94	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.49	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.57	500	Pass



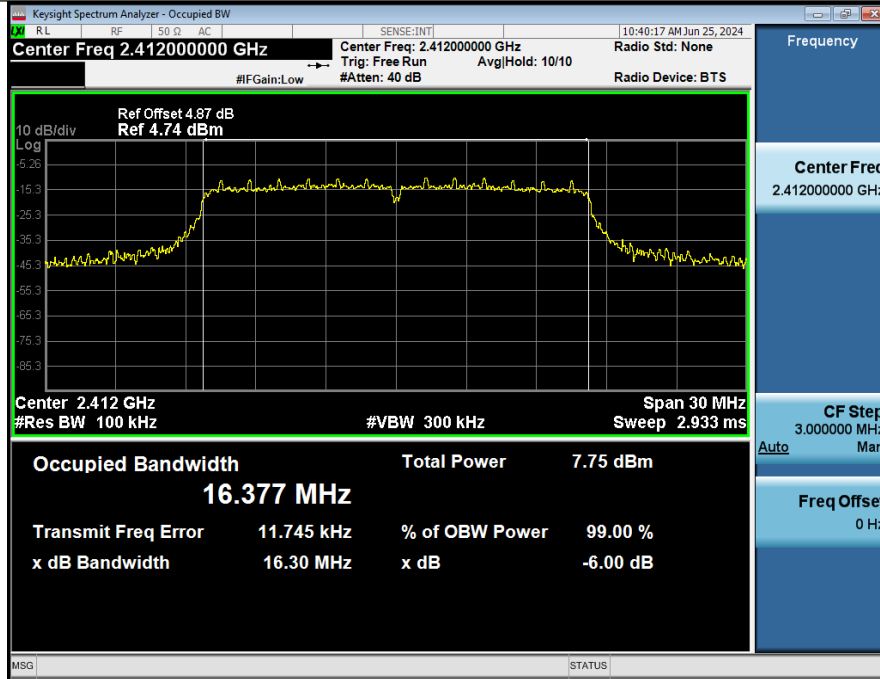
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



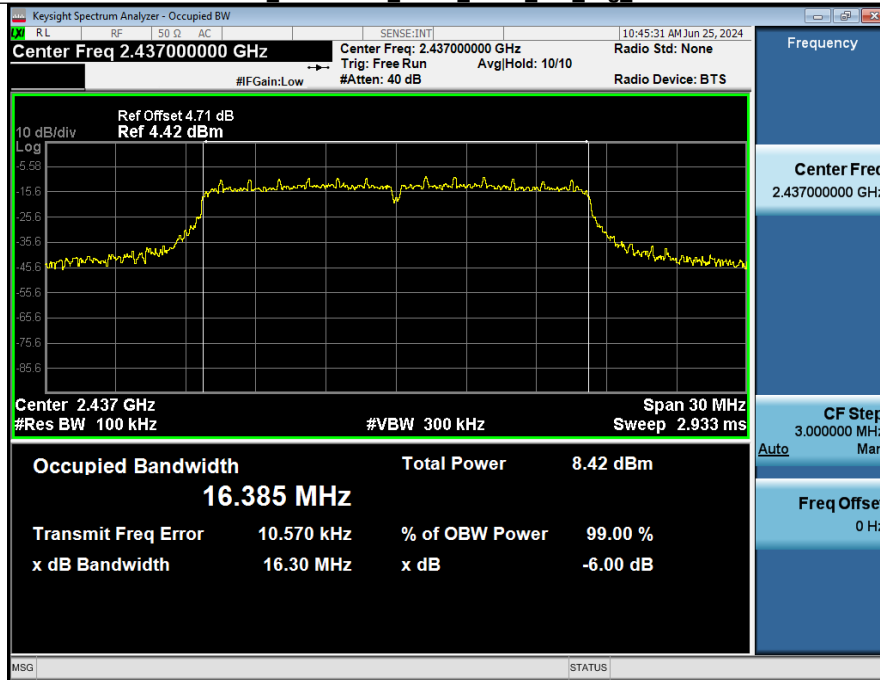
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



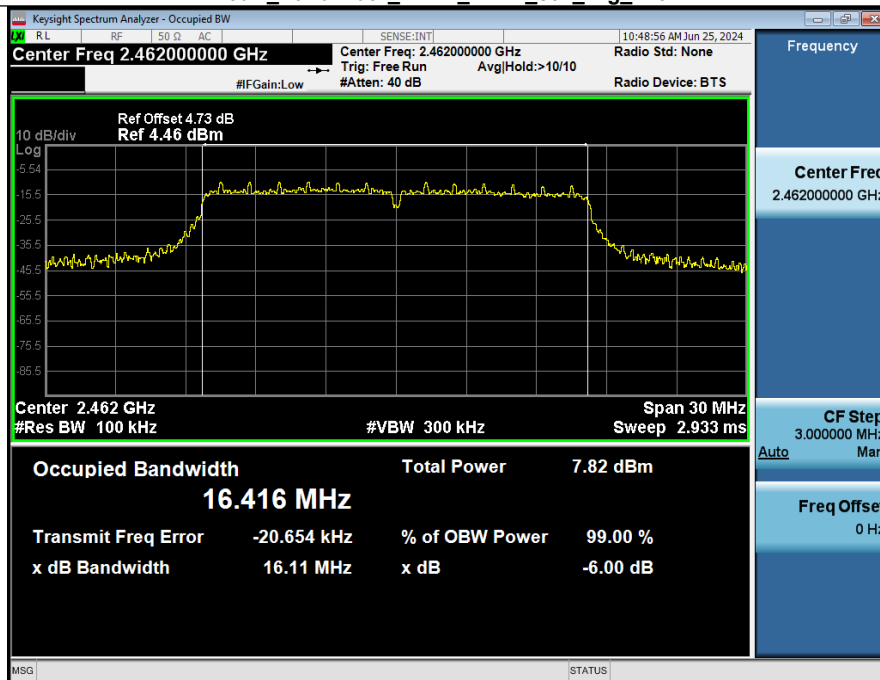
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



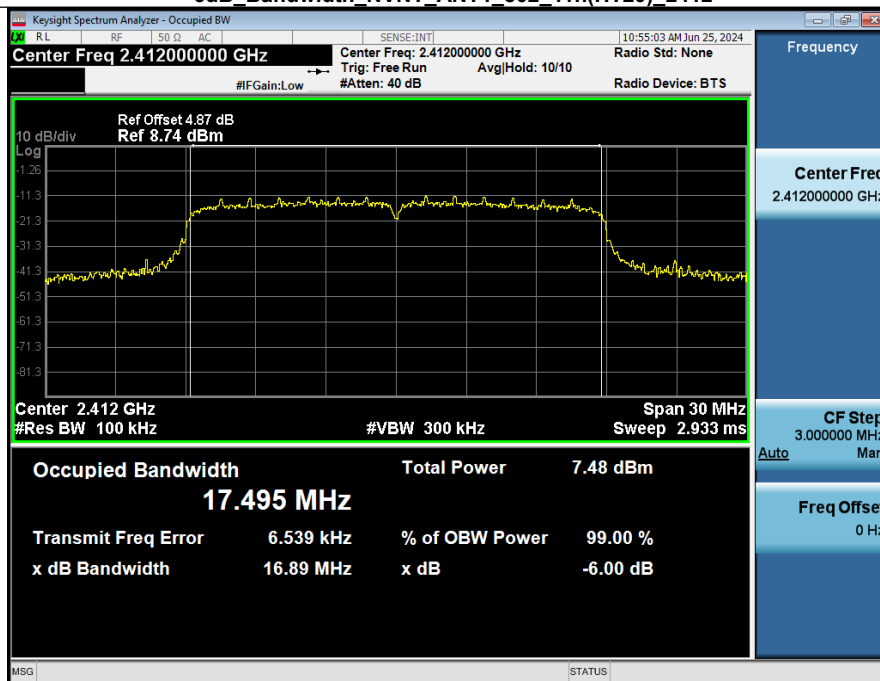
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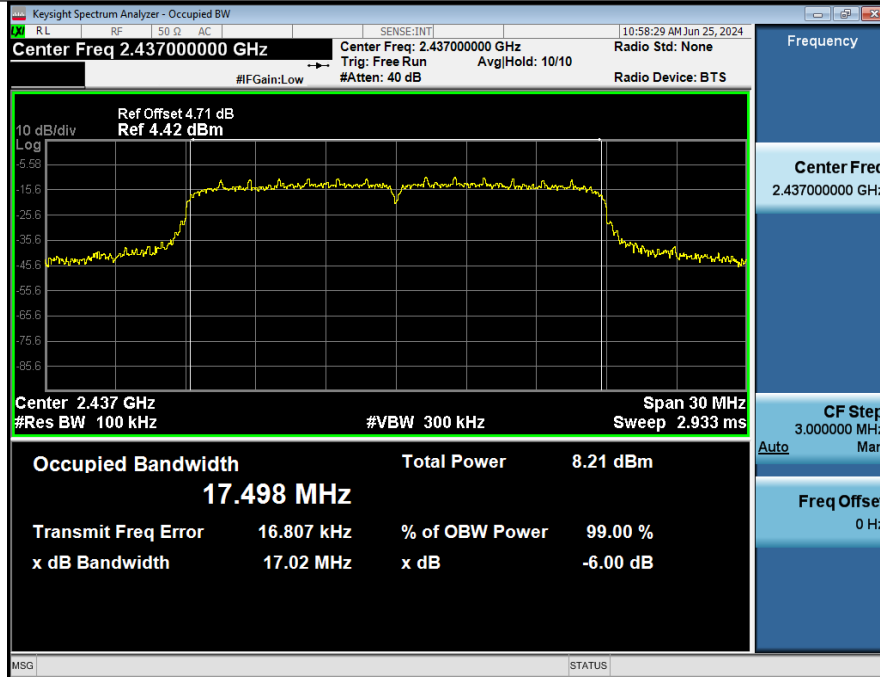
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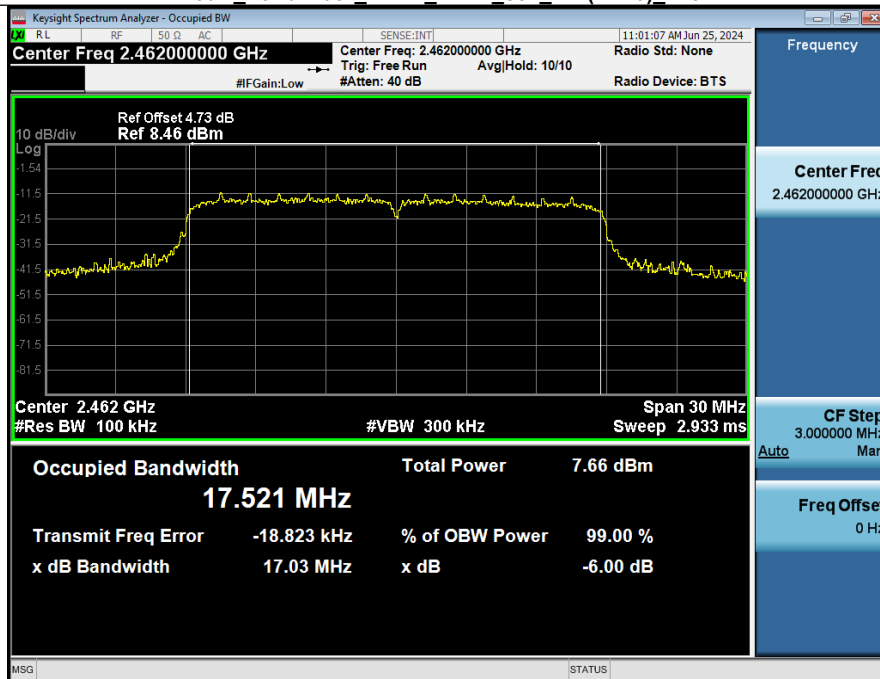
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



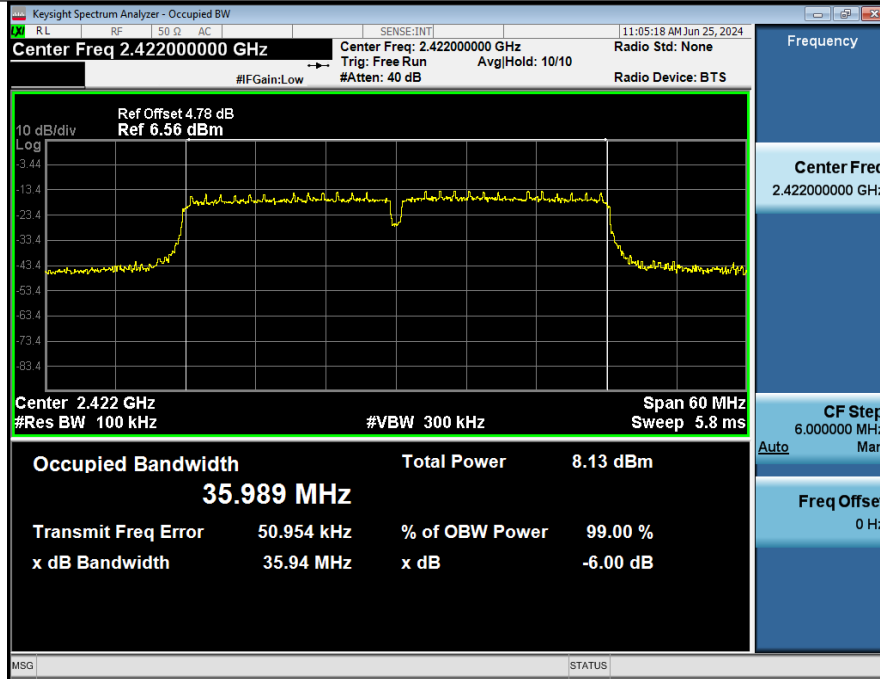
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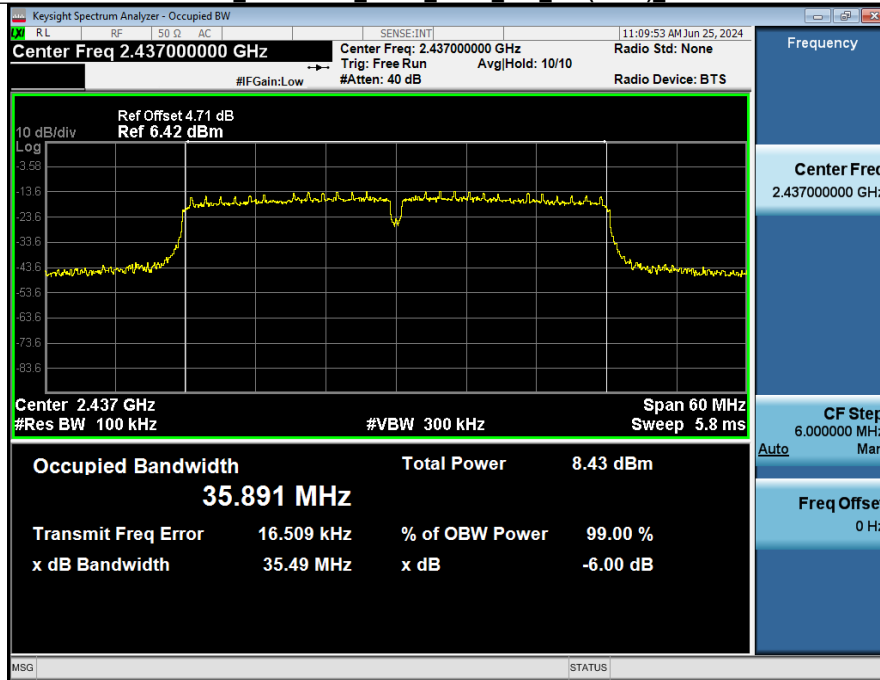
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



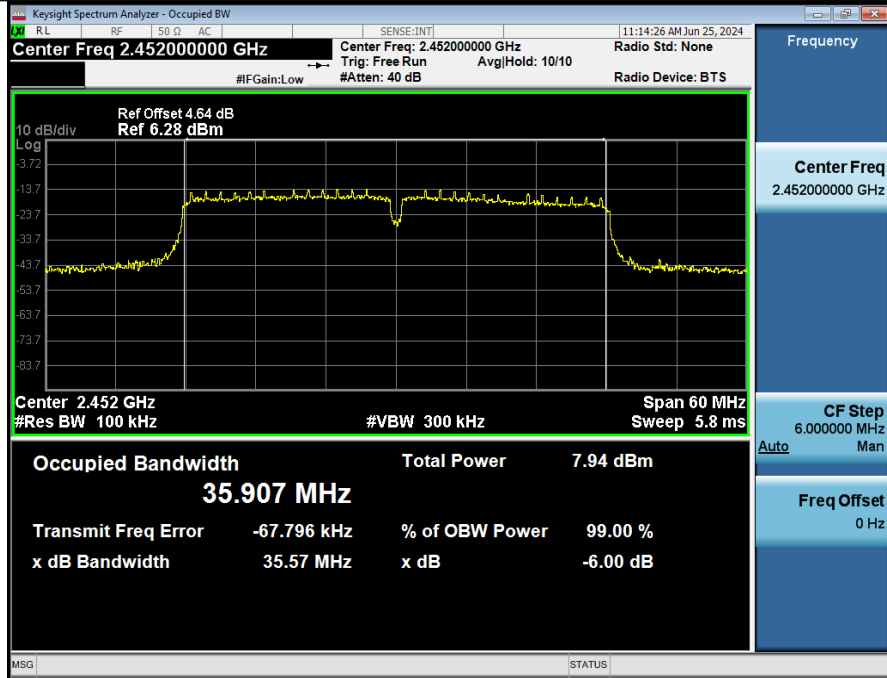
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

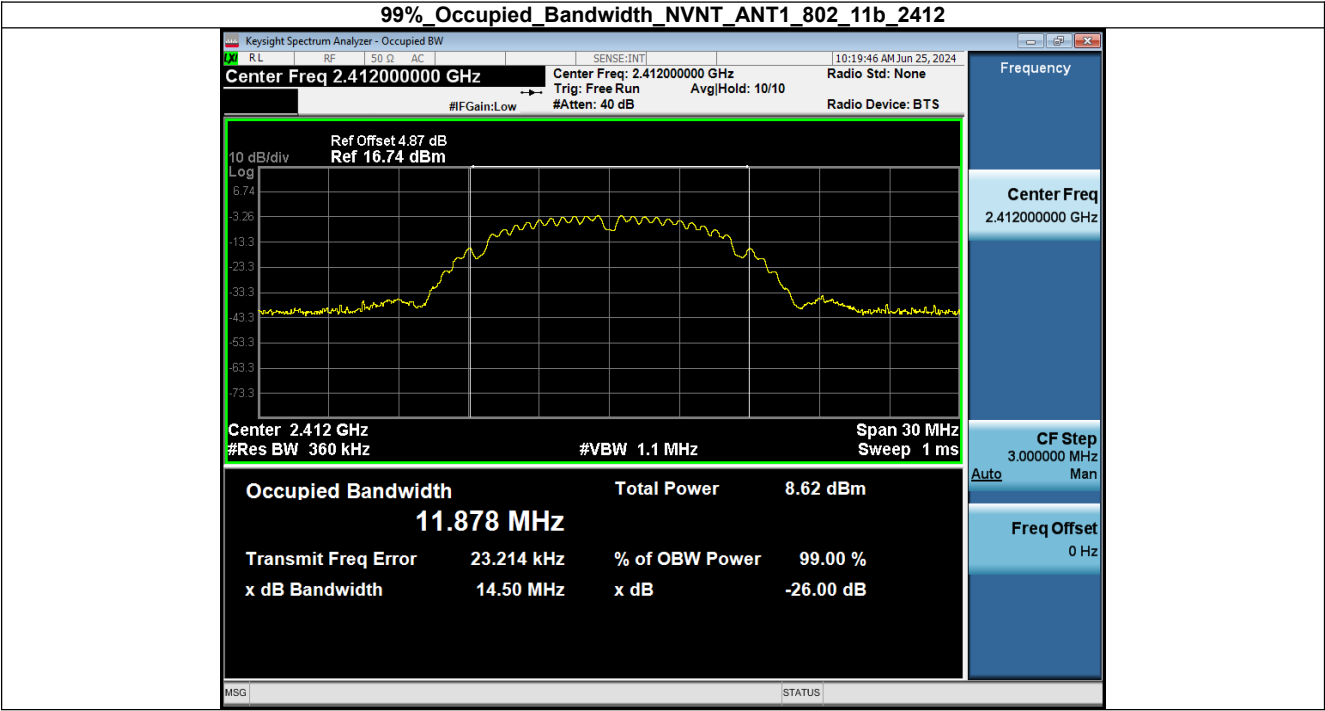


-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2452

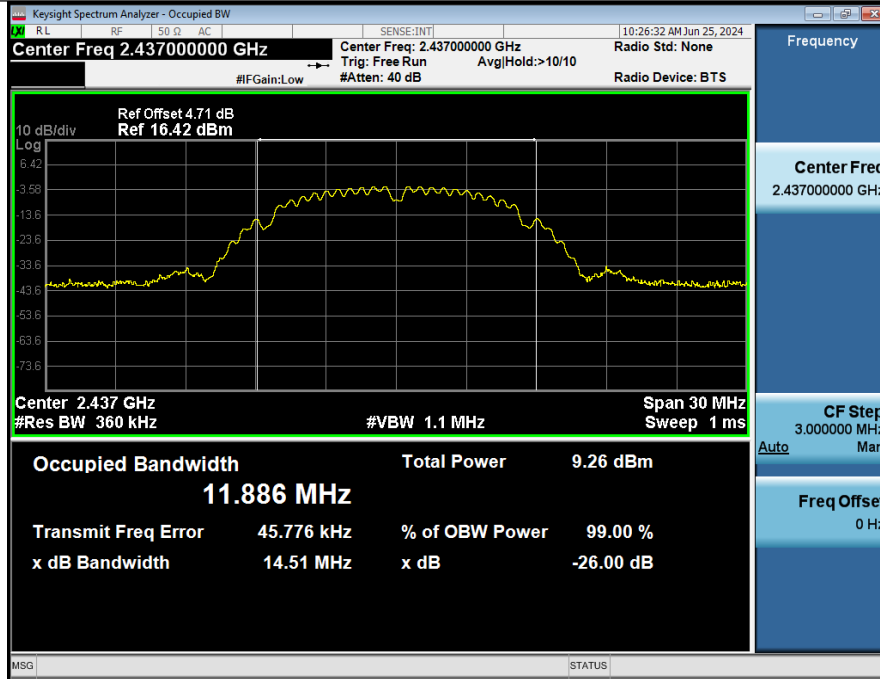


2. 99% Occupied Bandwidth

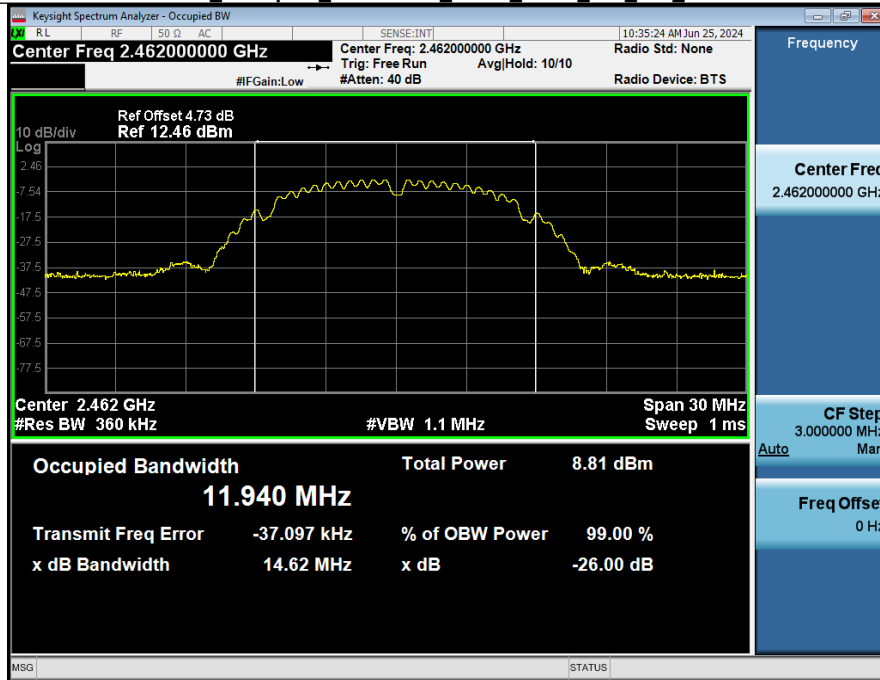
Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.878
NVNT	ANT1	802.11b	2437.00	11.886
NVNT	ANT1	802.11b	2462.00	11.940
NVNT	ANT1	802.11g	2412.00	16.953
NVNT	ANT1	802.11g	2437.00	16.983
NVNT	ANT1	802.11g	2462.00	17.150
NVNT	ANT1	802.11n(HT20)	2412.00	17.730
NVNT	ANT1	802.11n(HT20)	2437.00	17.708
NVNT	ANT1	802.11n(HT20)	2462.00	17.860
NVNT	ANT1	802.11n(HT40)	2422.00	36.516
NVNT	ANT1	802.11n(HT40)	2437.00	36.303
NVNT	ANT1	802.11n(HT40)	2452.00	36.397



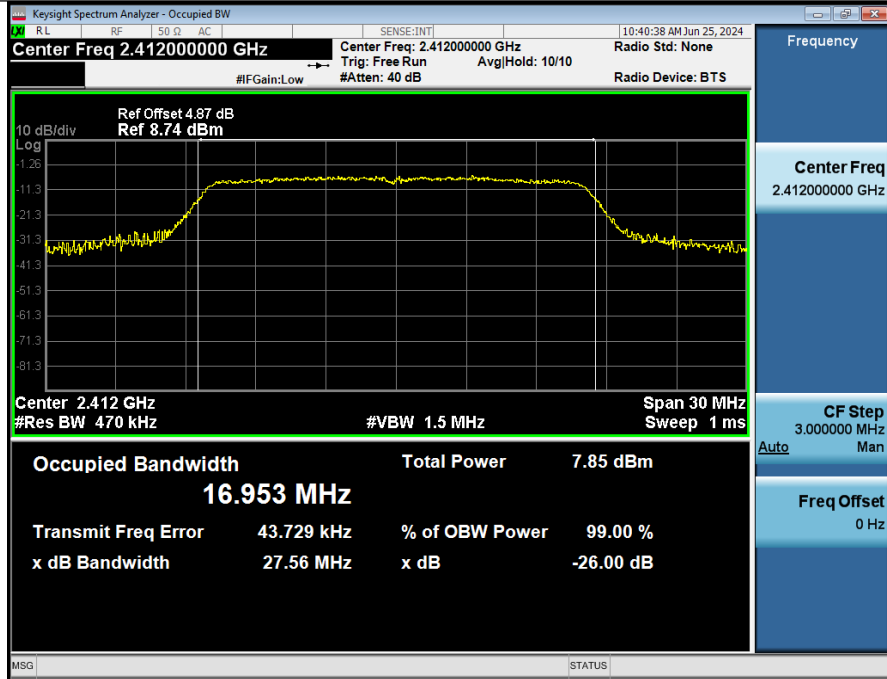
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



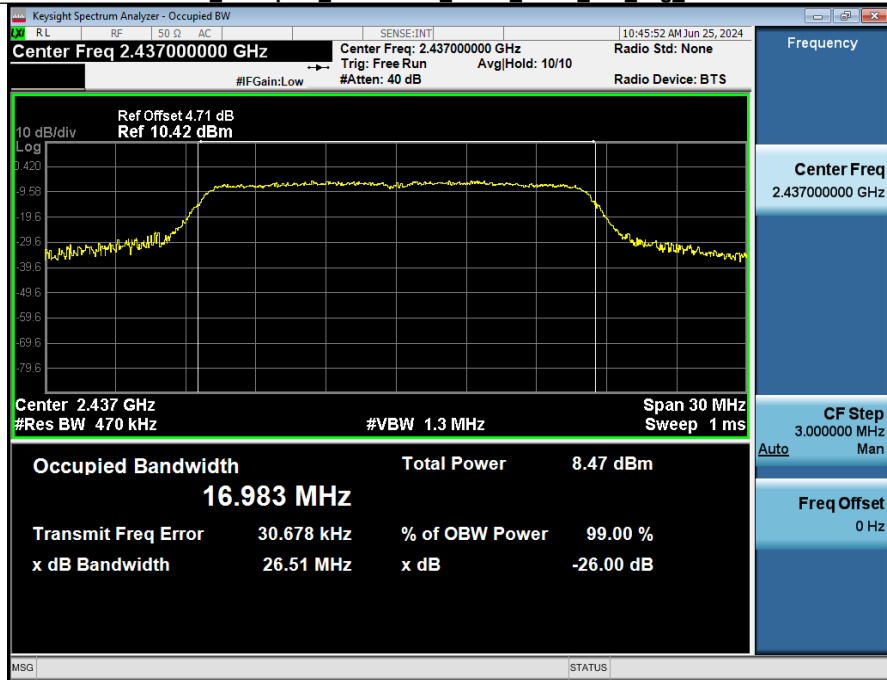
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



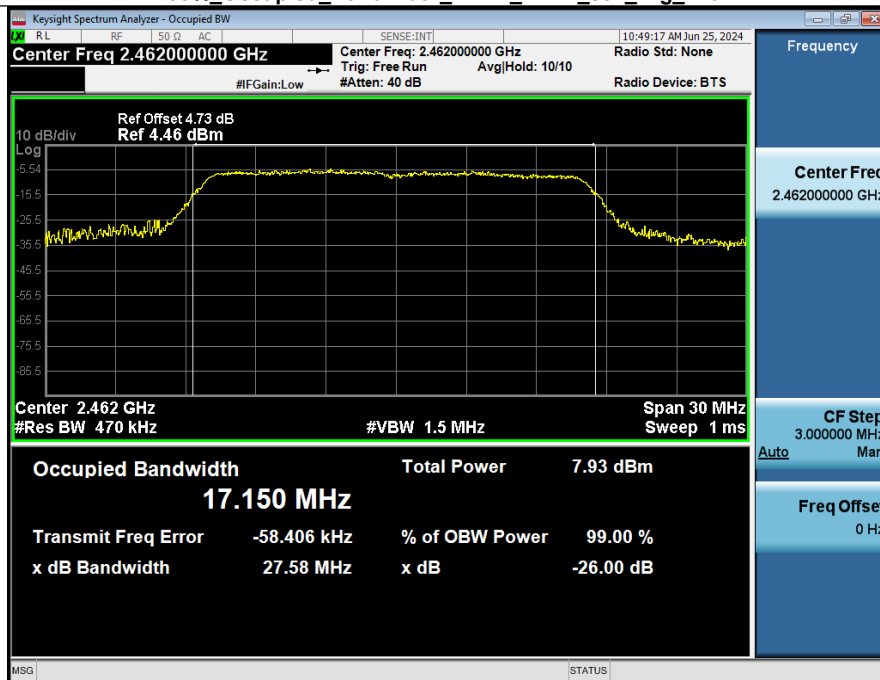
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



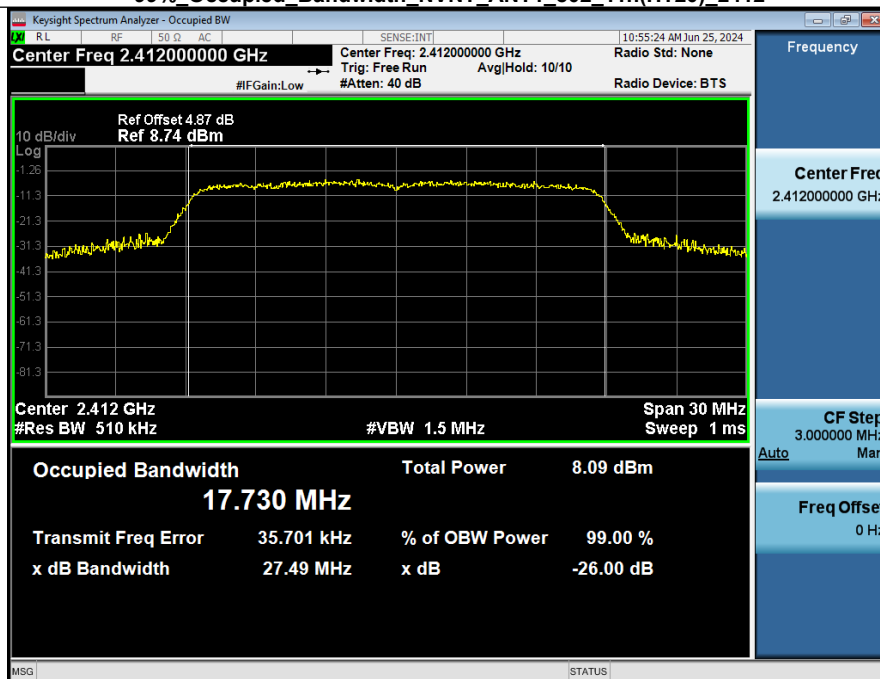
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437

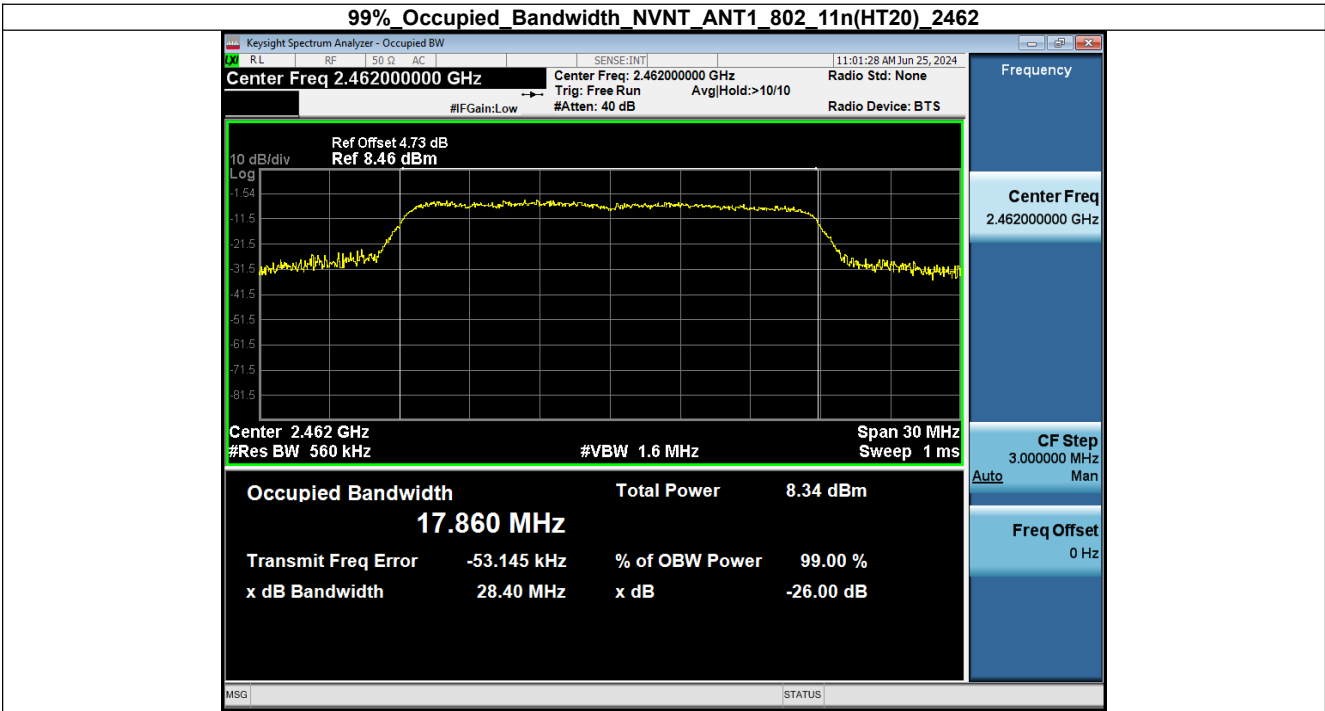
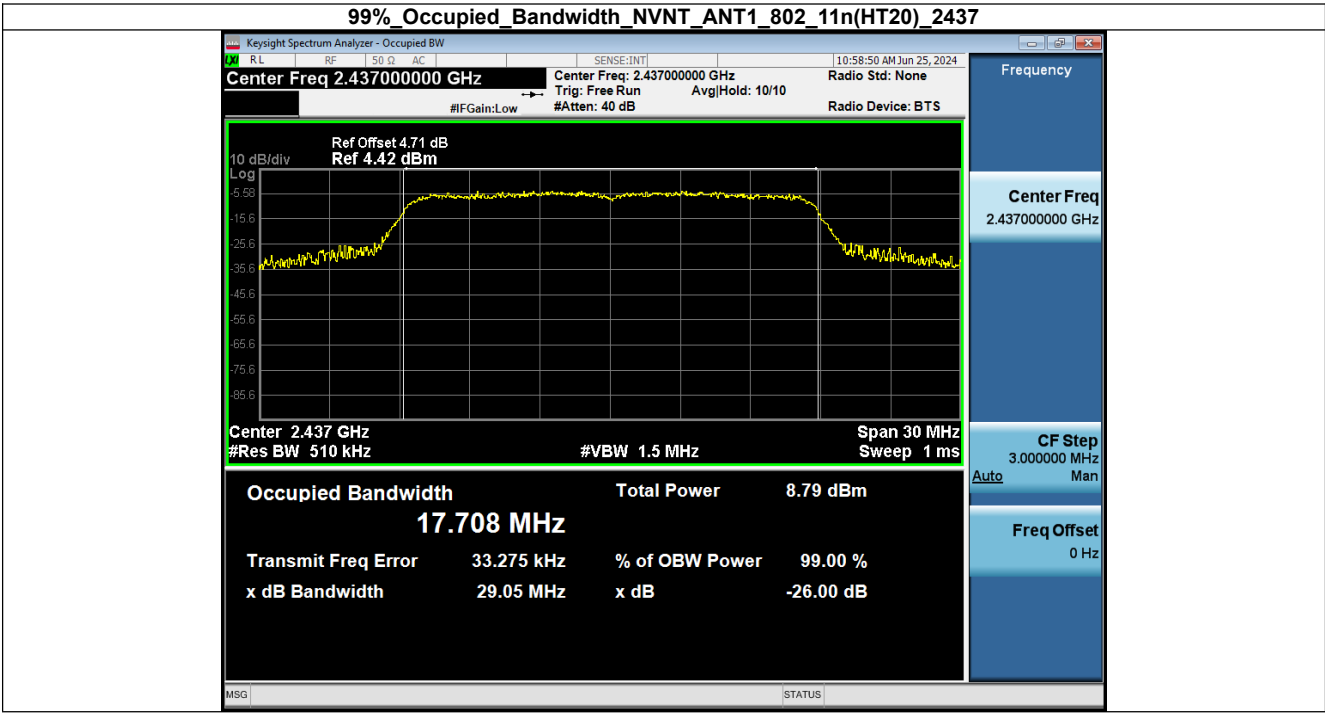


99% Occupied Bandwidth NVNT_ANT1_802_11g_2462

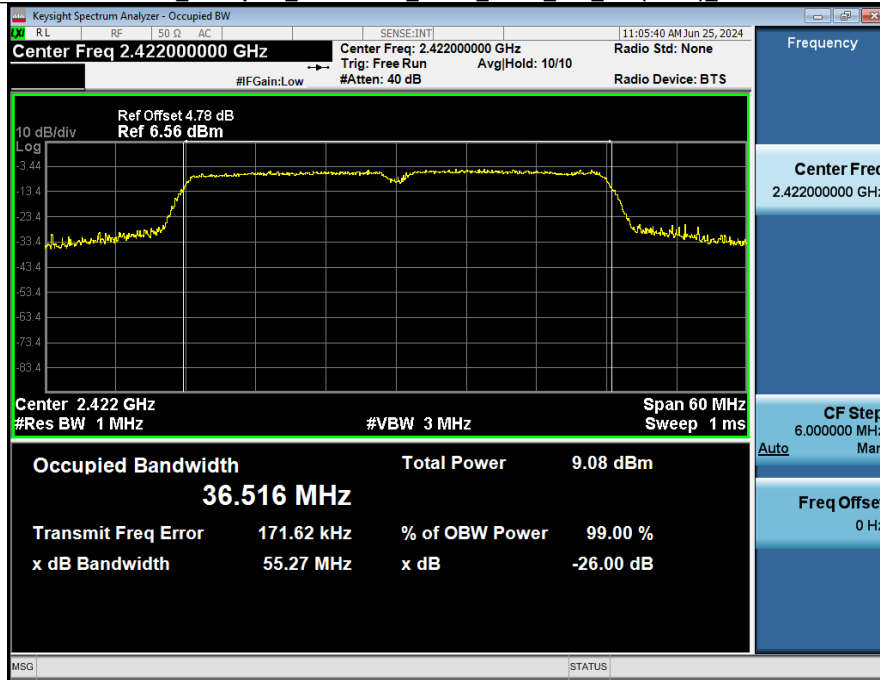


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412

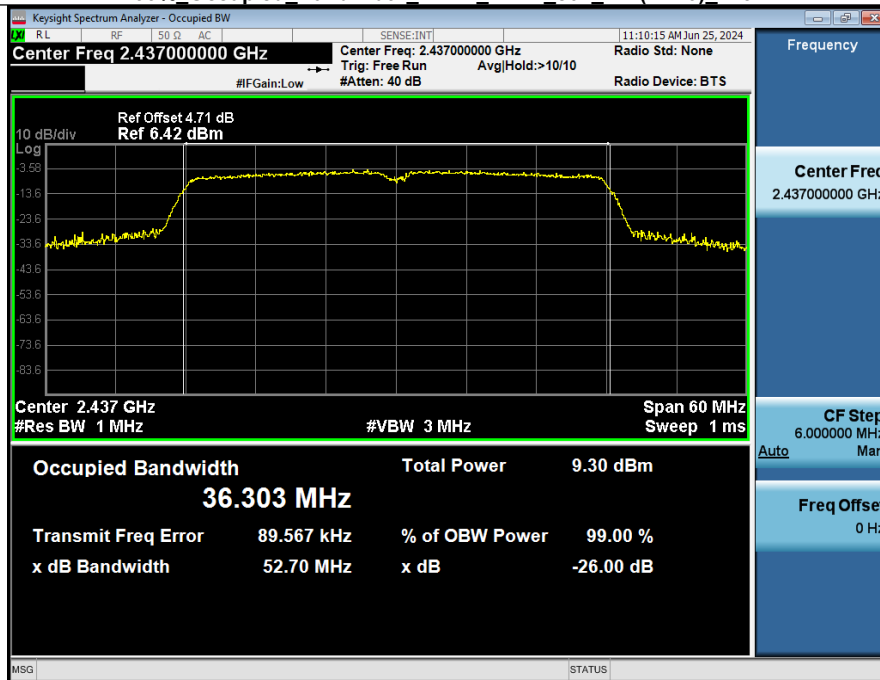


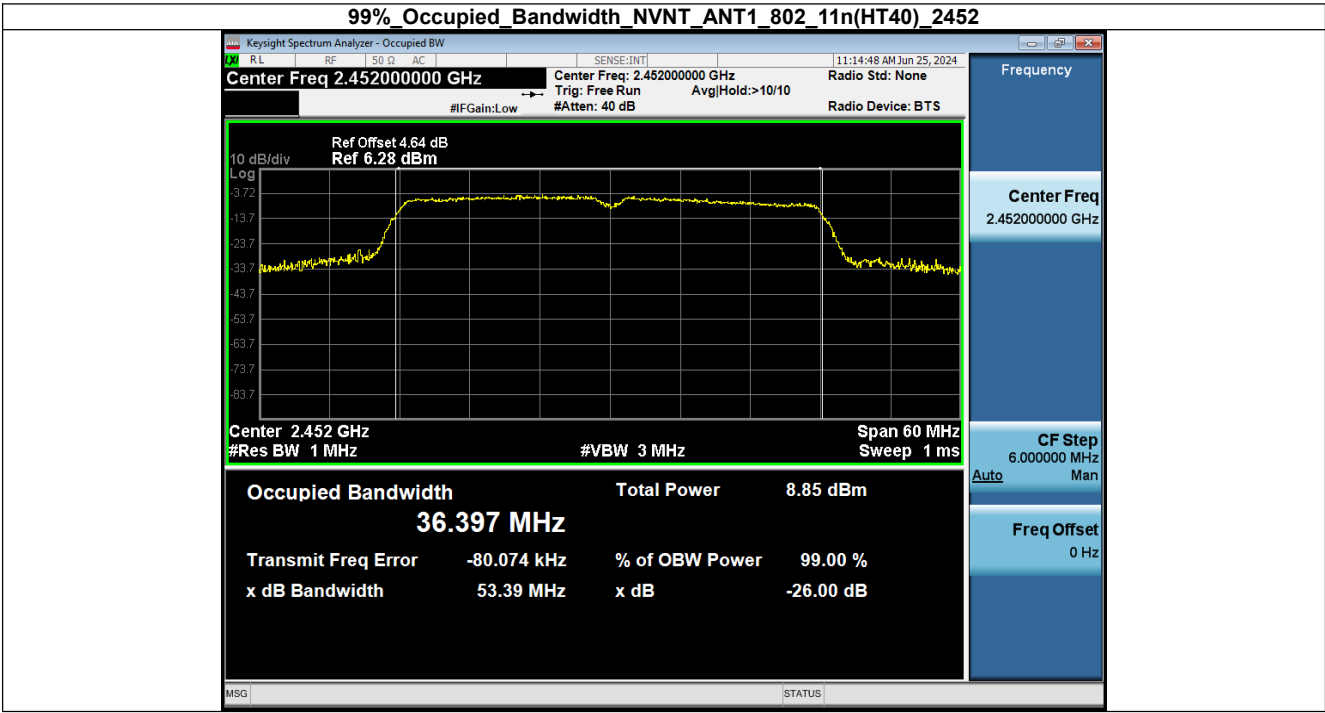


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



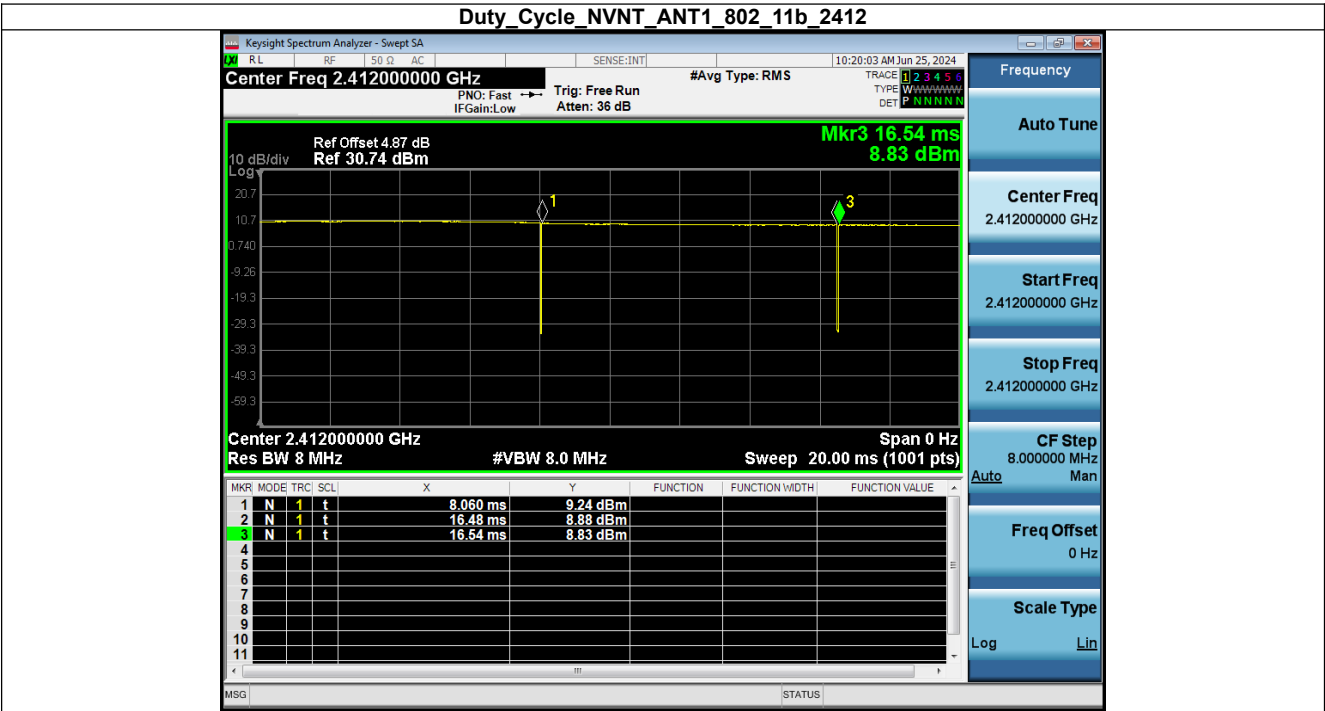
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437



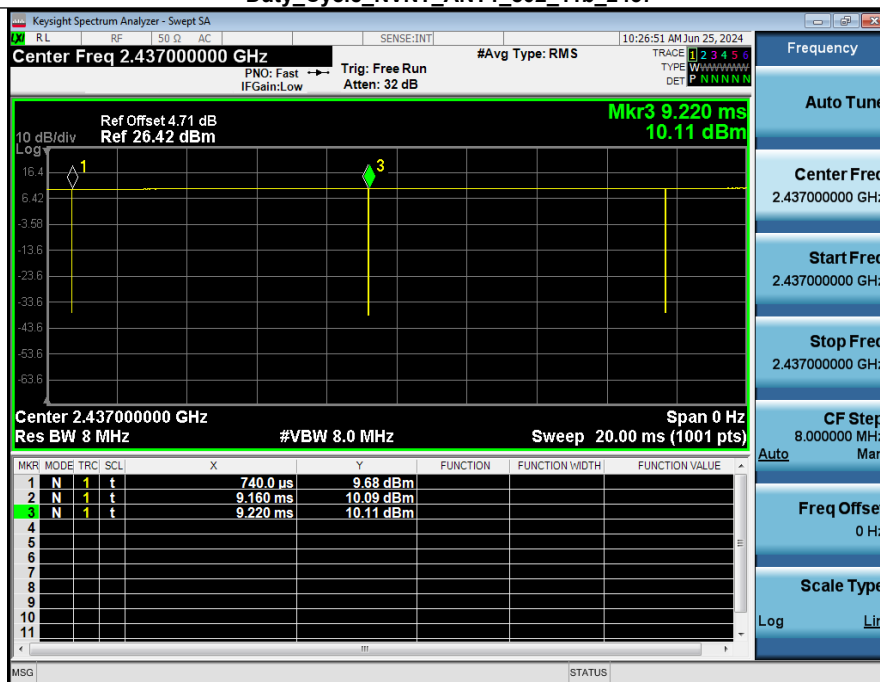


3. Duty Cycle

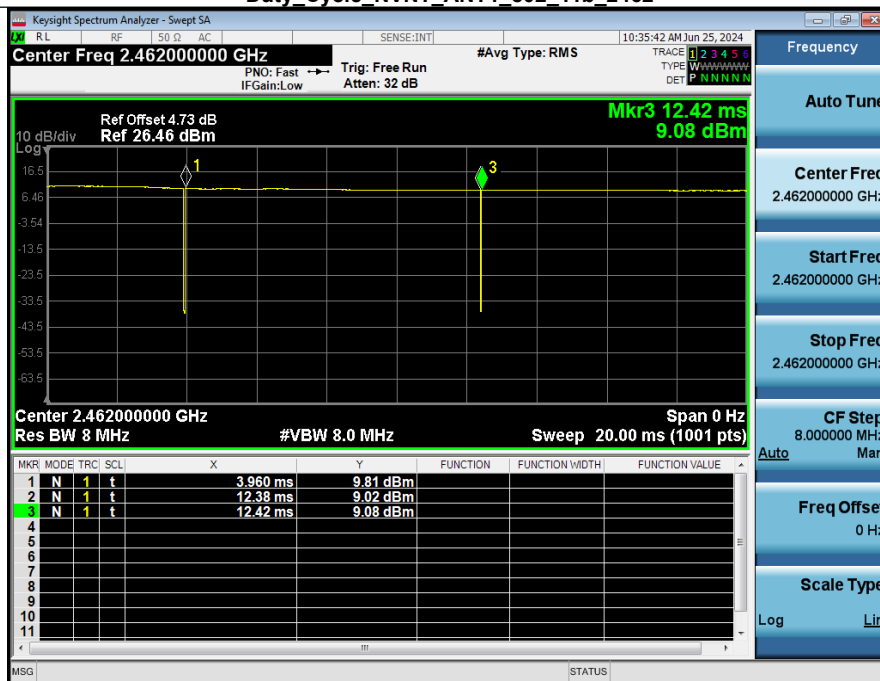
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.29	0.00
NVNT	ANT1	802.11b	2437.00	99.29	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.22	0.00
NVNT	ANT1	802.11g	2437.00	97.22	0.00
NVNT	ANT1	802.11g	2462.00	97.22	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	96.72	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	95.16	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	95.16	0.14
NVNT	ANT1	802.11n(HT40)	2422.00	93.75	0.14
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.14
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.14



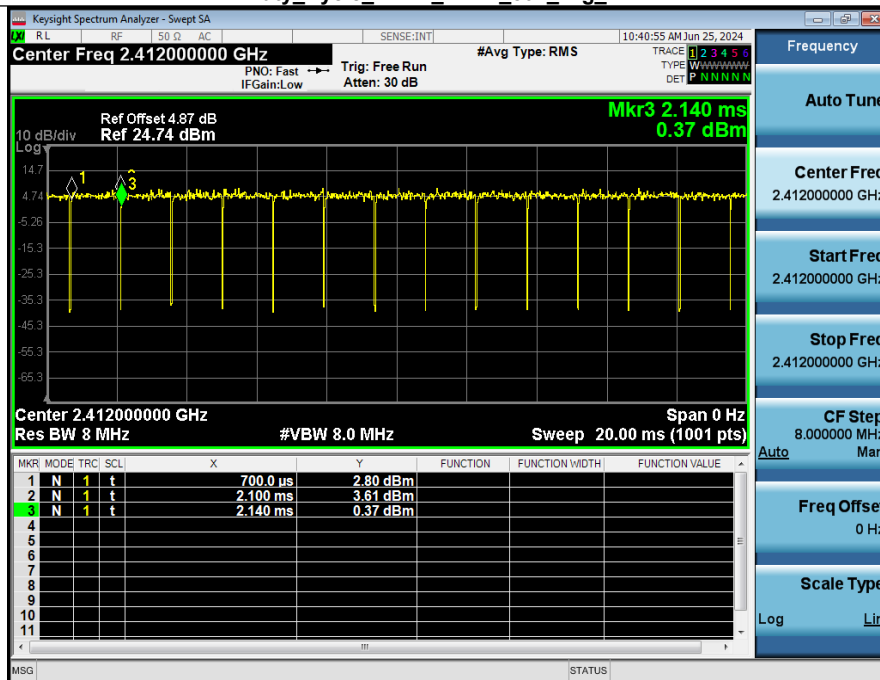
Duty Cycle NVNT_ANT1_802_11b_2437



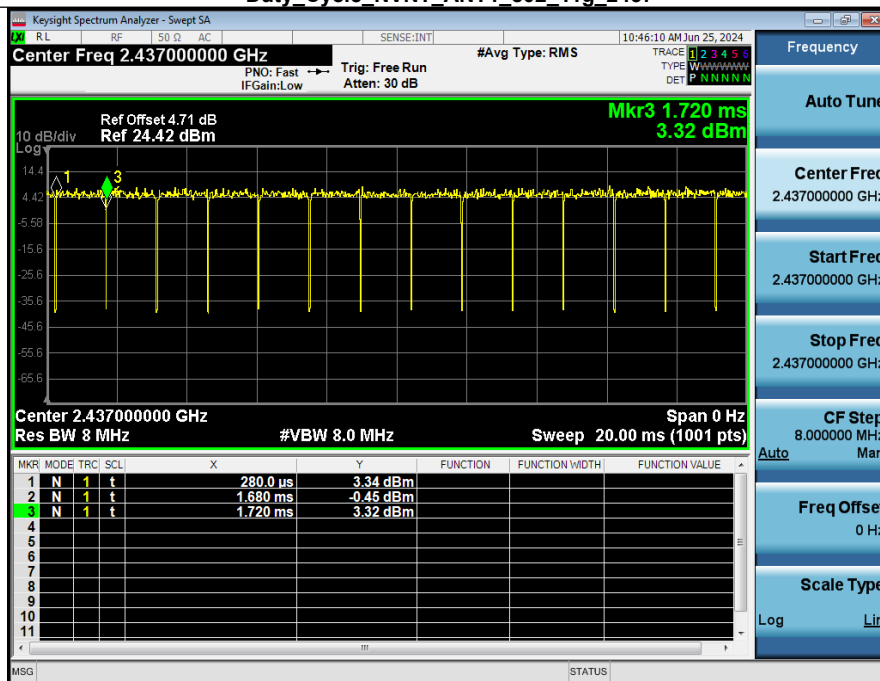
Duty Cycle NVNT_ANT1_802_11b_2462



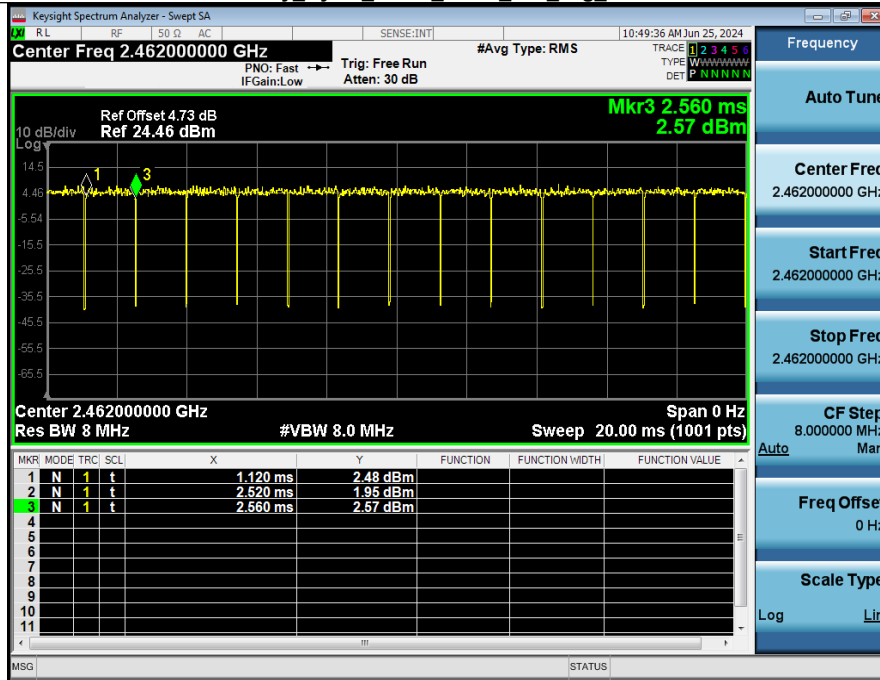
Duty Cycle NVNT_ANT1_802_11g_2412



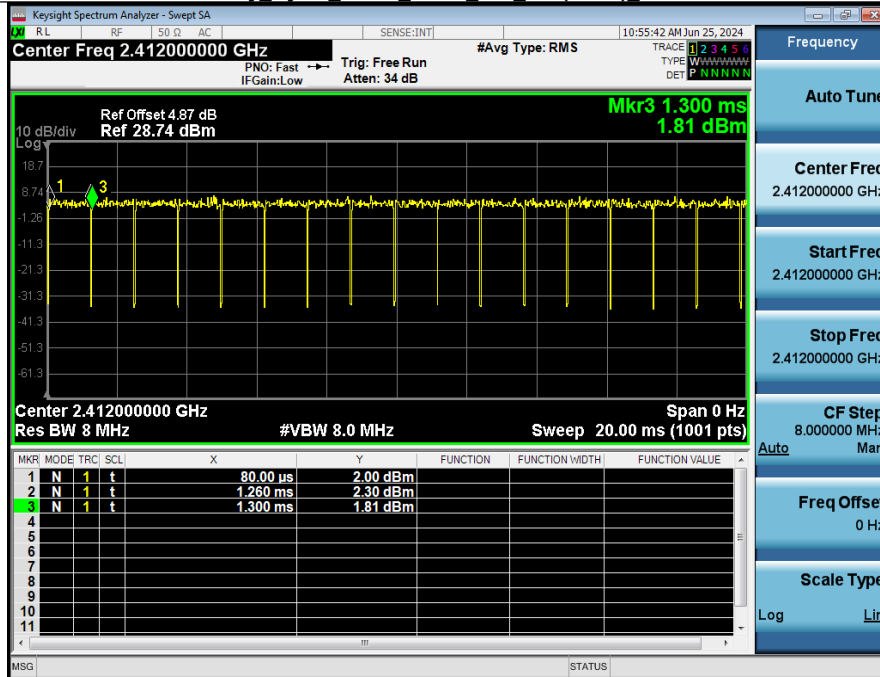
Duty Cycle NVNT_ANT1_802_11g_2437



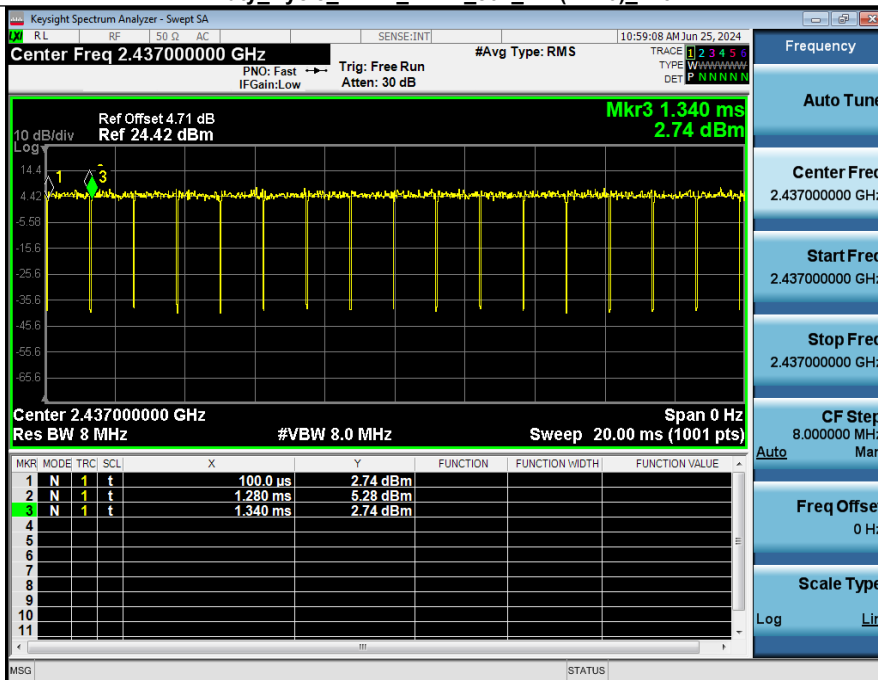
Duty Cycle NVNT_ANT1_802_11g_2462



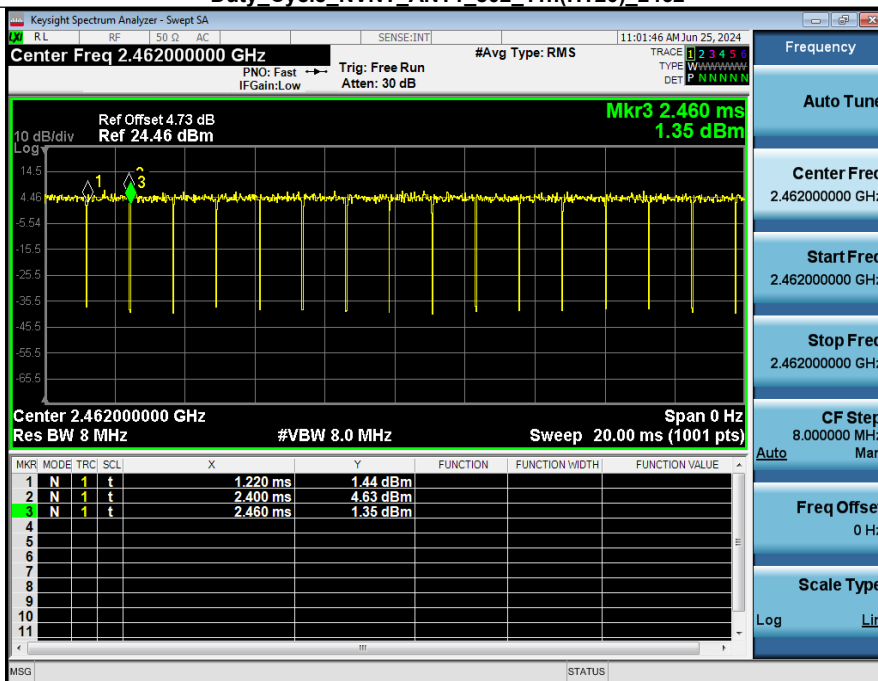
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



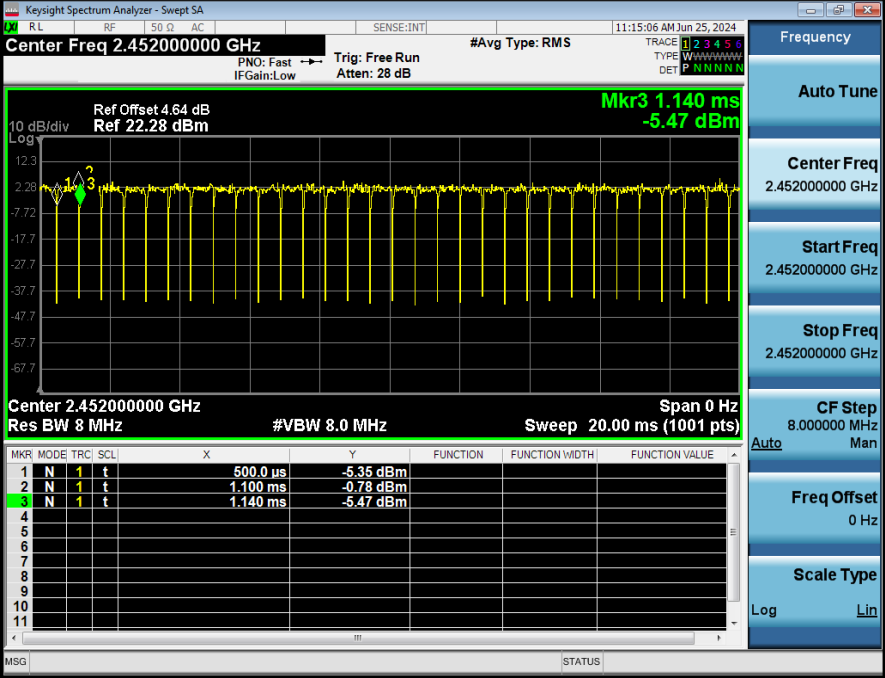
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



5. Power Spectral Density

Conditio n	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-5.08	-10.00	-15.08	8	Pass
NVNT	ANT1	802.11b	2437.00	-6.42	-10.00	-16.43	8	Pass
NVNT	ANT1	802.11b	2462.00	-5.99	-10.00	-15.99	8	Pass
NVNT	ANT1	802.11g	2412.00	-14.48	-10.00	-24.48	8	Pass
NVNT	ANT1	802.11g	2437.00	-14.47	-10.00	-24.47	8	Pass
NVNT	ANT1	802.11g	2462.00	-14.73	-10.00	-24.73	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-16.01	-10.00	-26.01	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-15.39	-10.00	-25.39	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-15.86	-10.00	-25.86	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-18.15	-10.00	-28.15	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-18.09	-10.00	-28.09	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-18.31	-10.00	-28.31	8	Pass



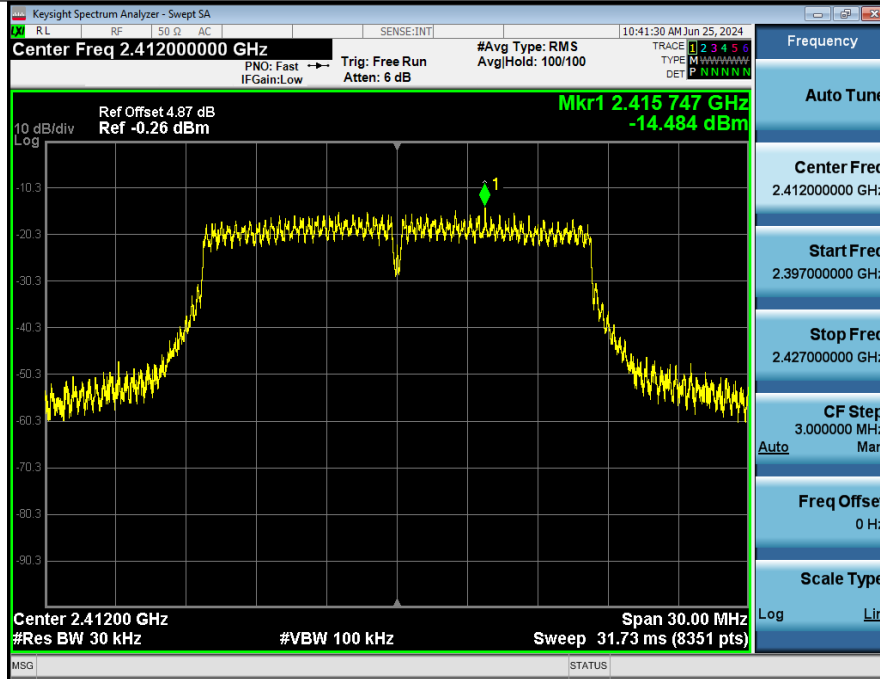
Power Spectral Density NVNT_ANT1_802_11b_2437



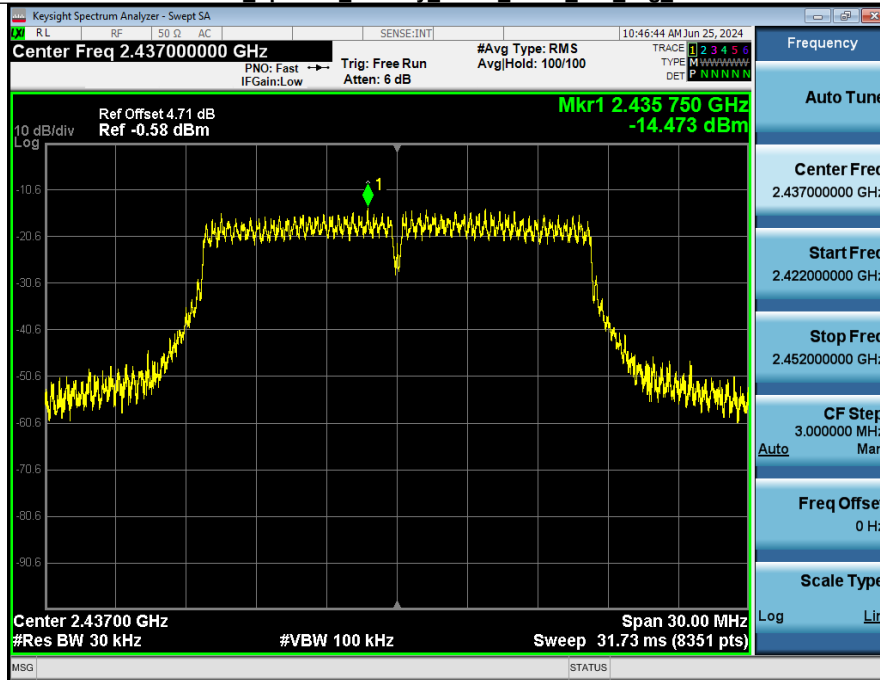
Power Spectral Density NVNT_ANT1_802_11b_2462



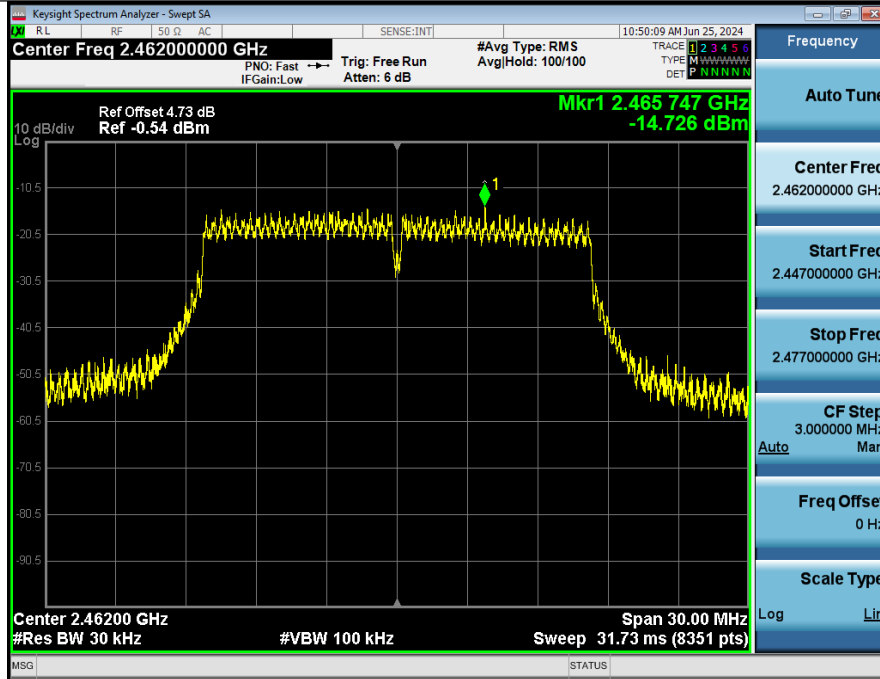
Power Spectral Density NVNT_ANT1_802_11g_2412



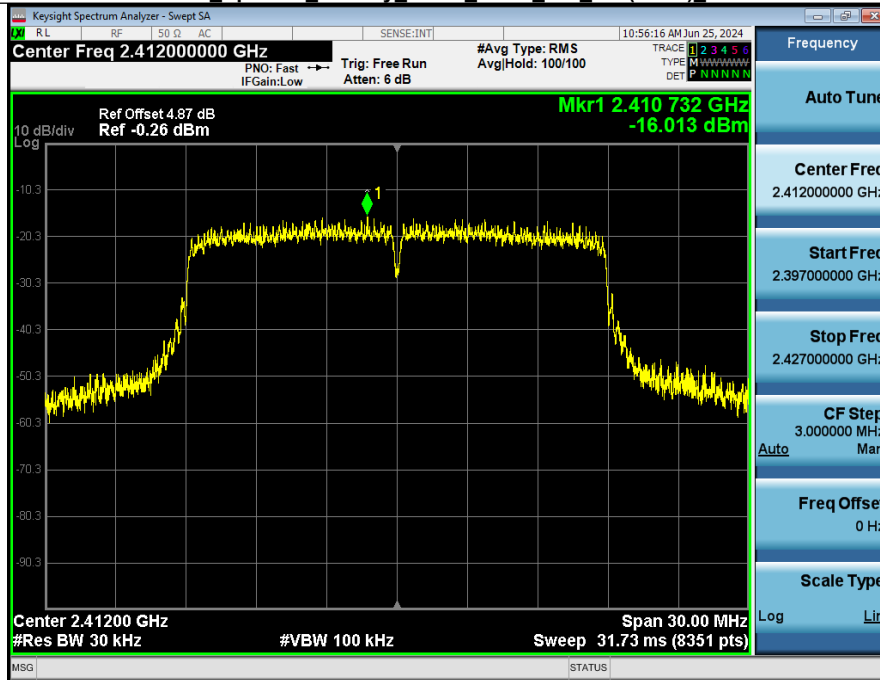
Power Spectral Density NVNT_ANT1_802_11g_2437



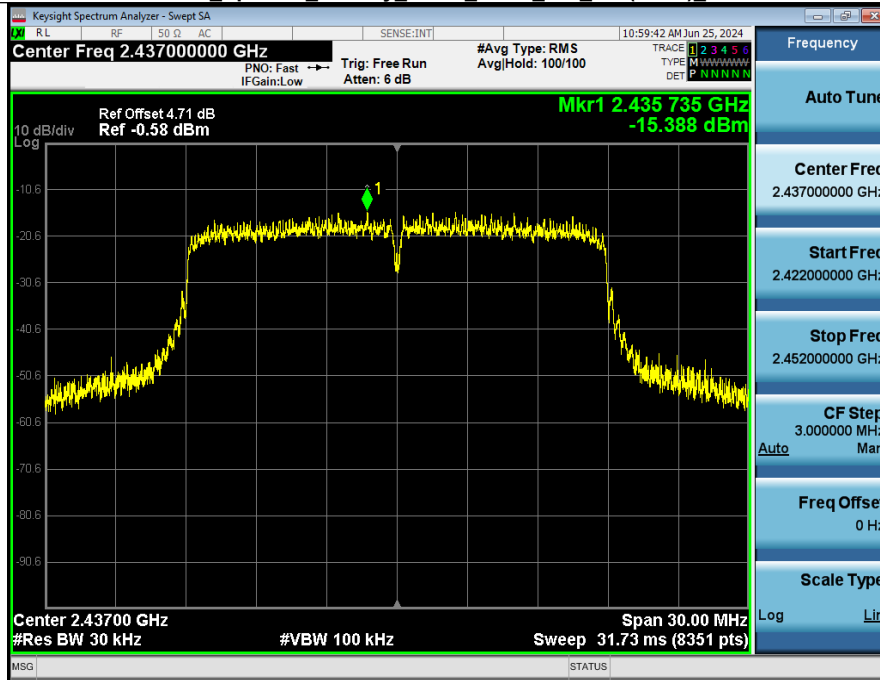
Power Spectral Density_NVNT_ANT1_802_11g_2462



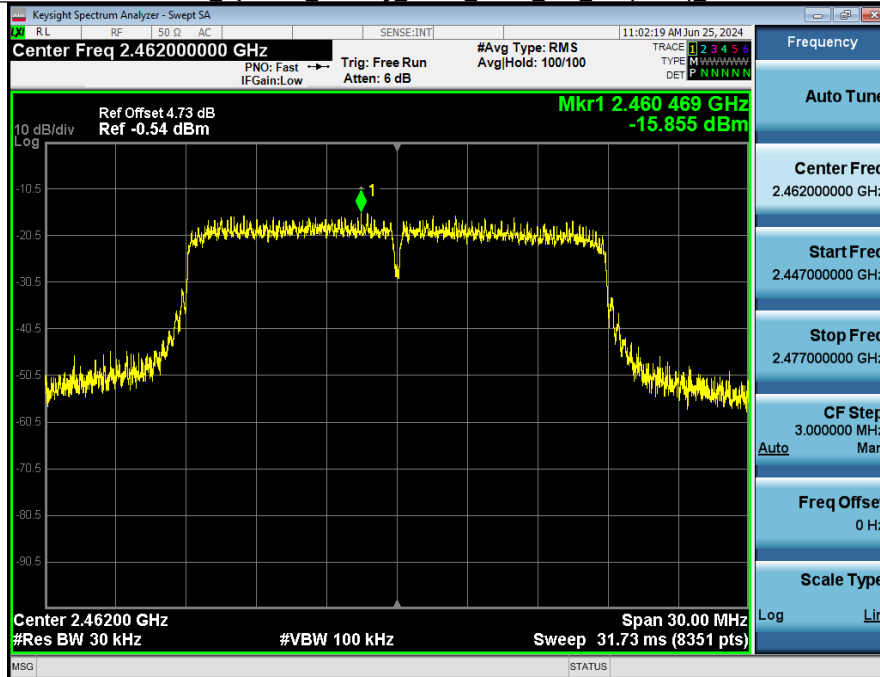
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



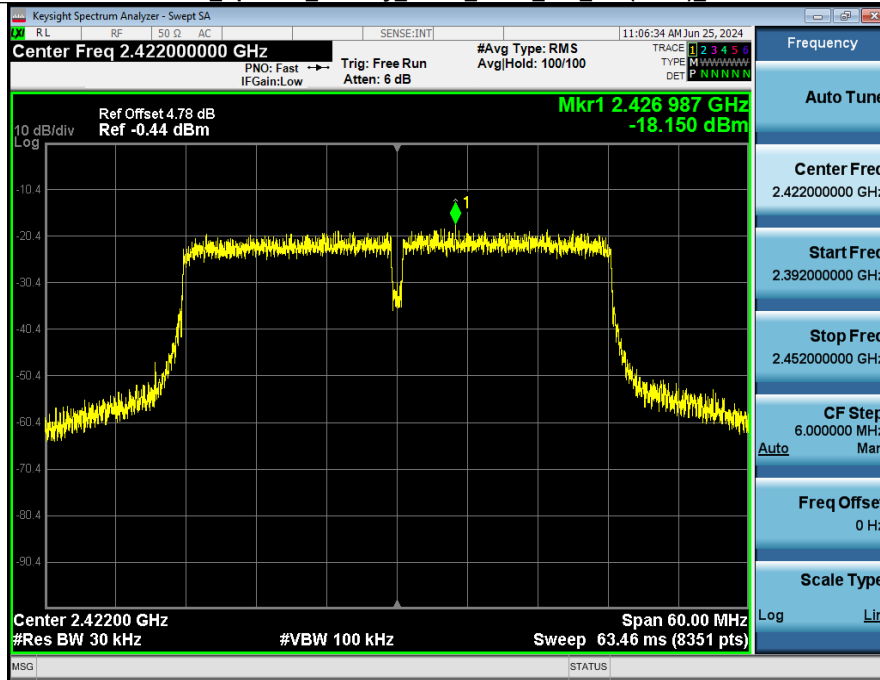
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437



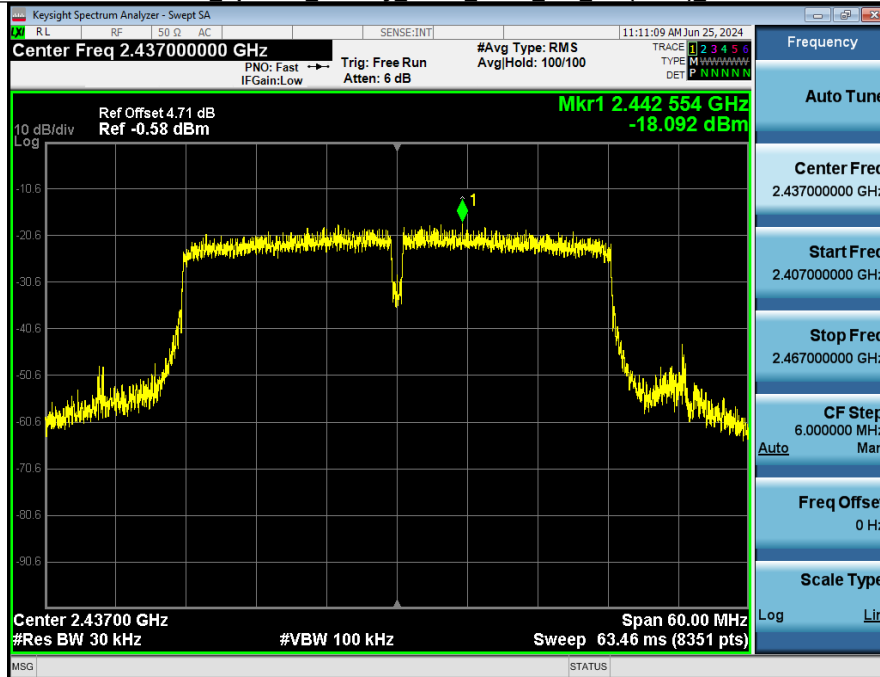
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2462



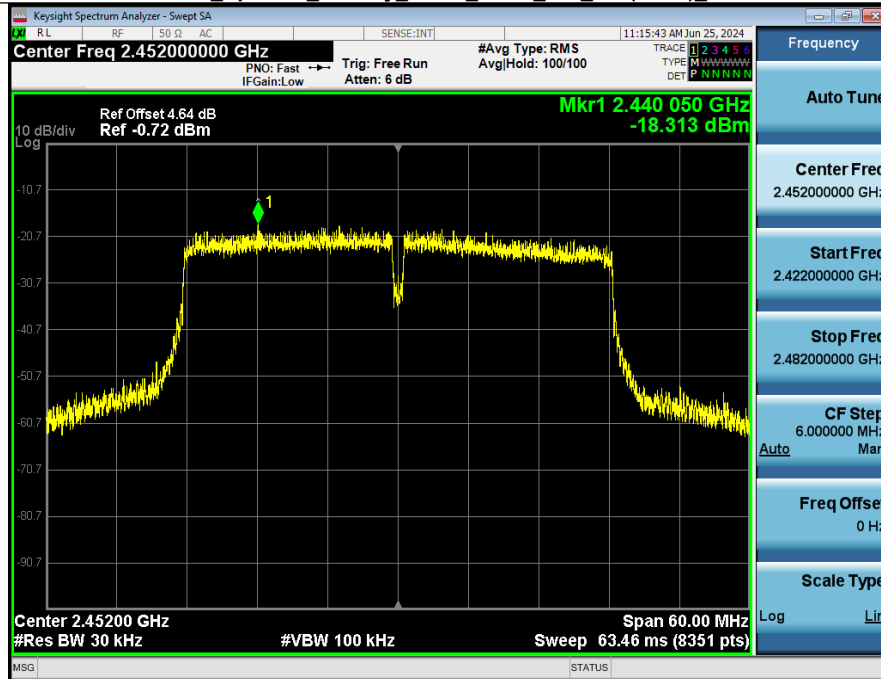
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437

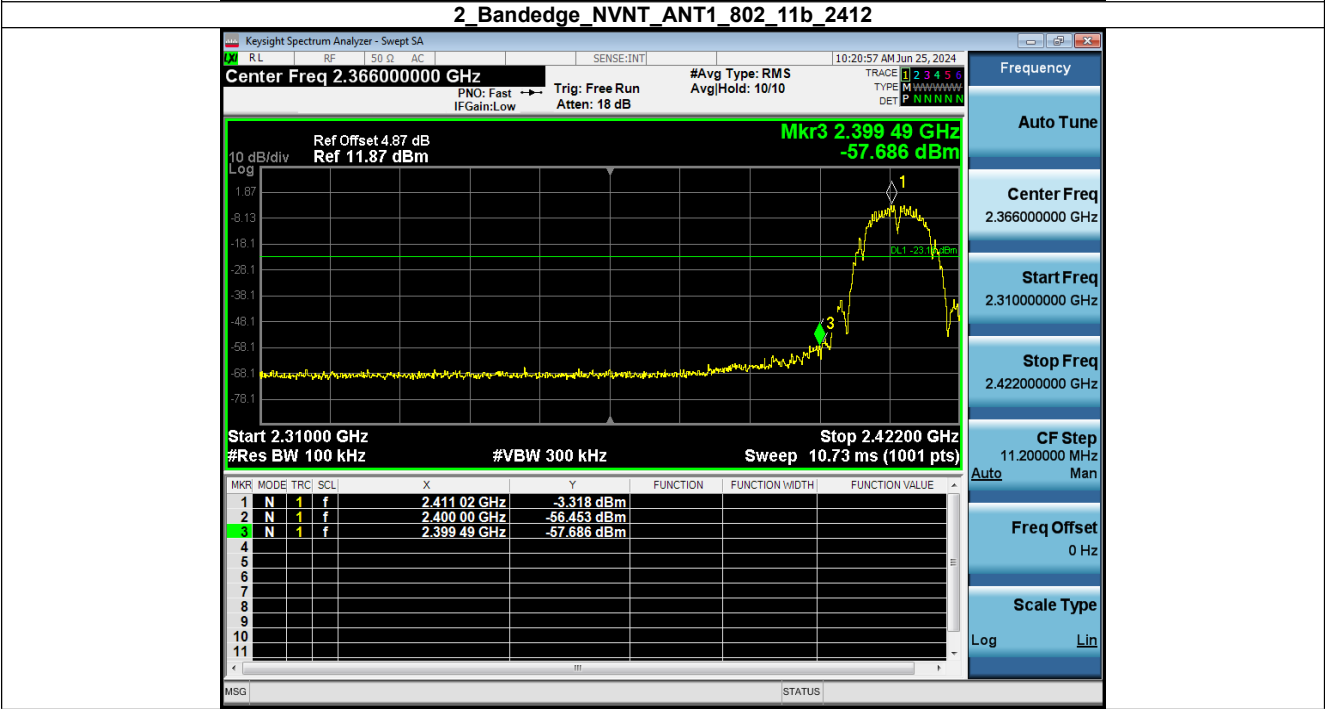
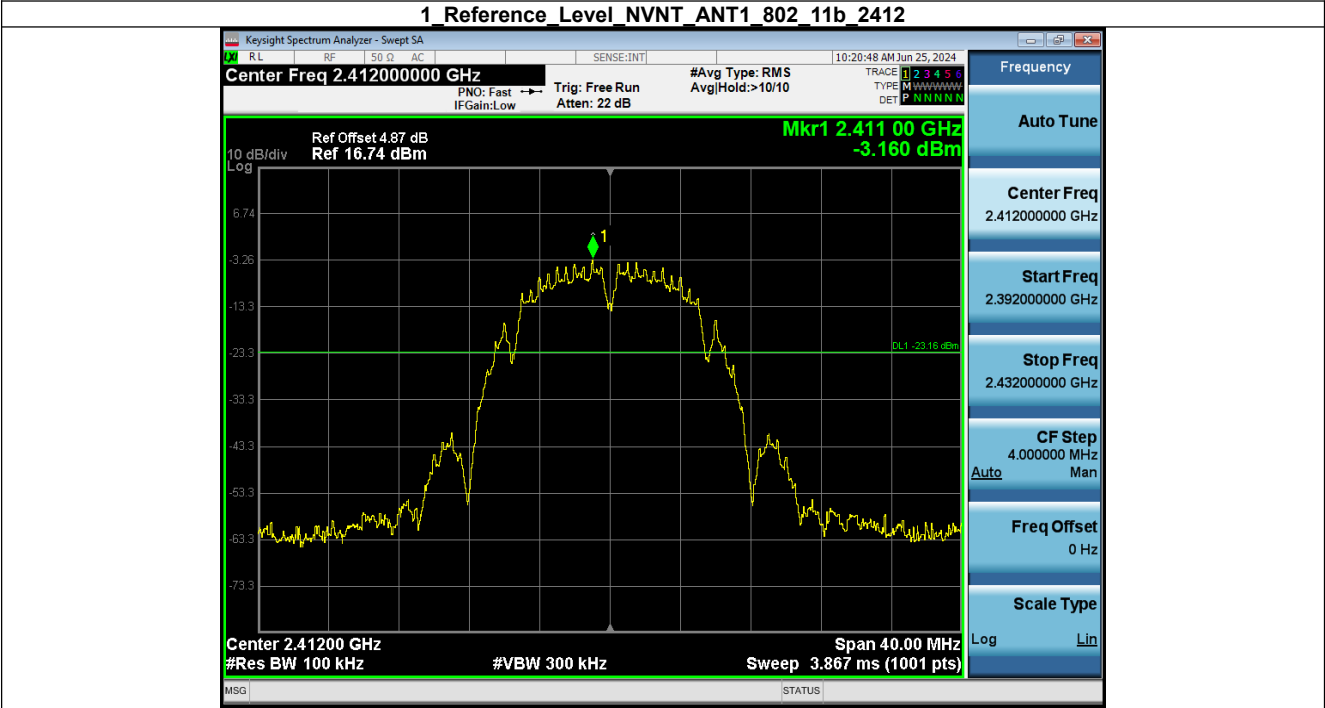


Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2452



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.488	-57.686	-23.160	Pass
NVNT	ANT1	802.11b	2462.00	2485.024	-63.656	-22.924	Pass
NVNT	ANT1	802.11g	2412.00	2398.928	-42.503	-30.819	Pass
NVNT	ANT1	802.11g	2462.00	2483.872	-55.534	-31.084	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.376	-43.666	-31.506	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.872	-53.975	-31.255	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.496	-43.694	-33.774	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-53.645	-33.639	Pass



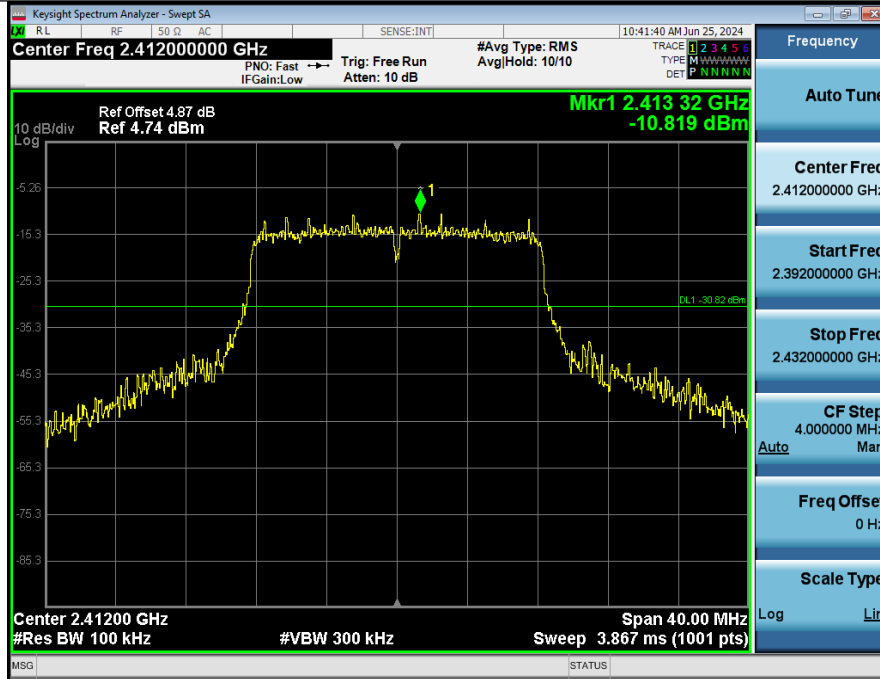
1 Reference Level_NVNT_ANT1_802_11b_2462



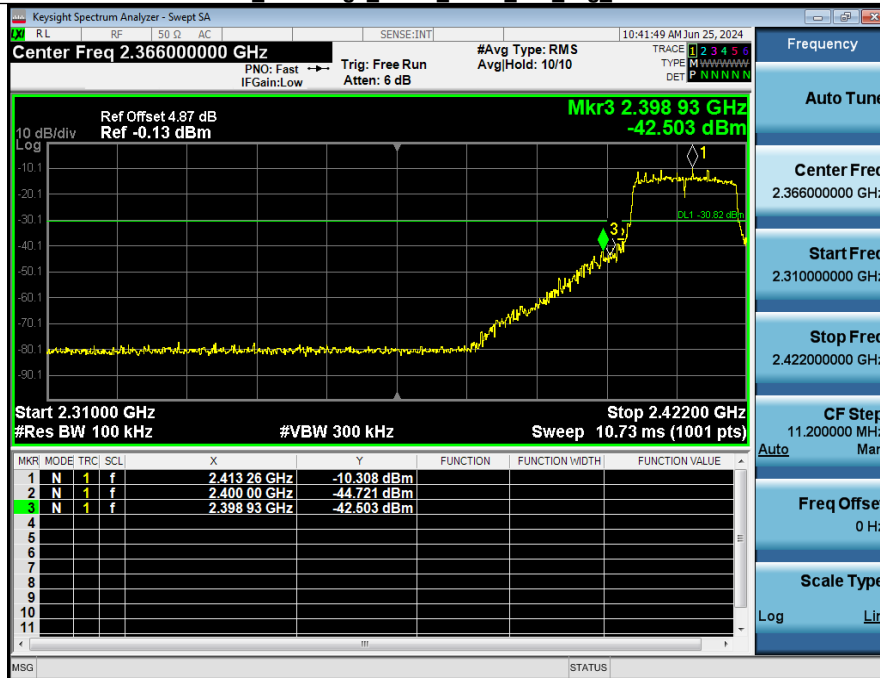
2 Bandedge_NVNT_ANT1_802_11b_2462



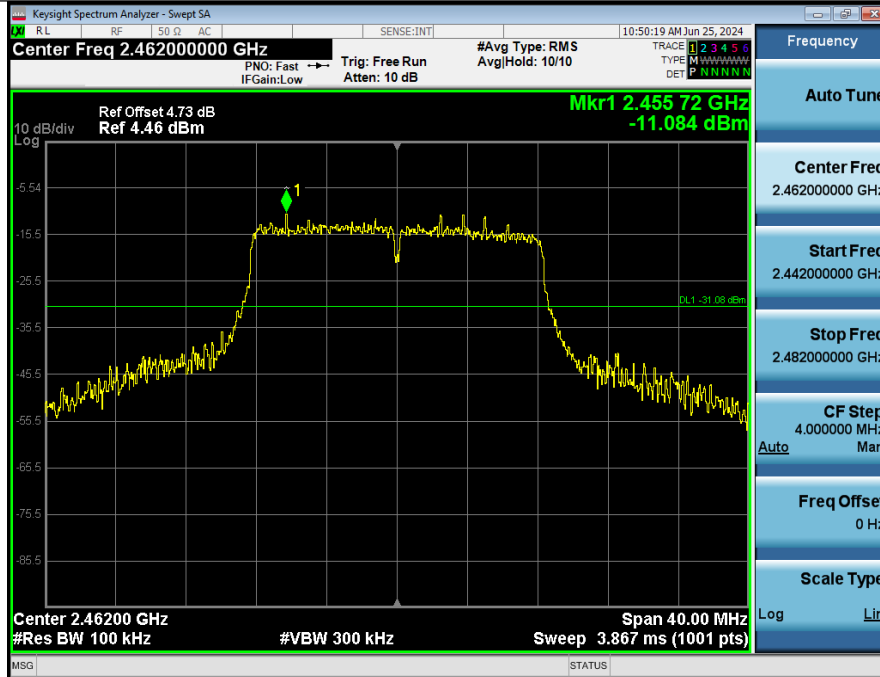
1 Reference Level_NVNT_ANT1_802_11g_2412



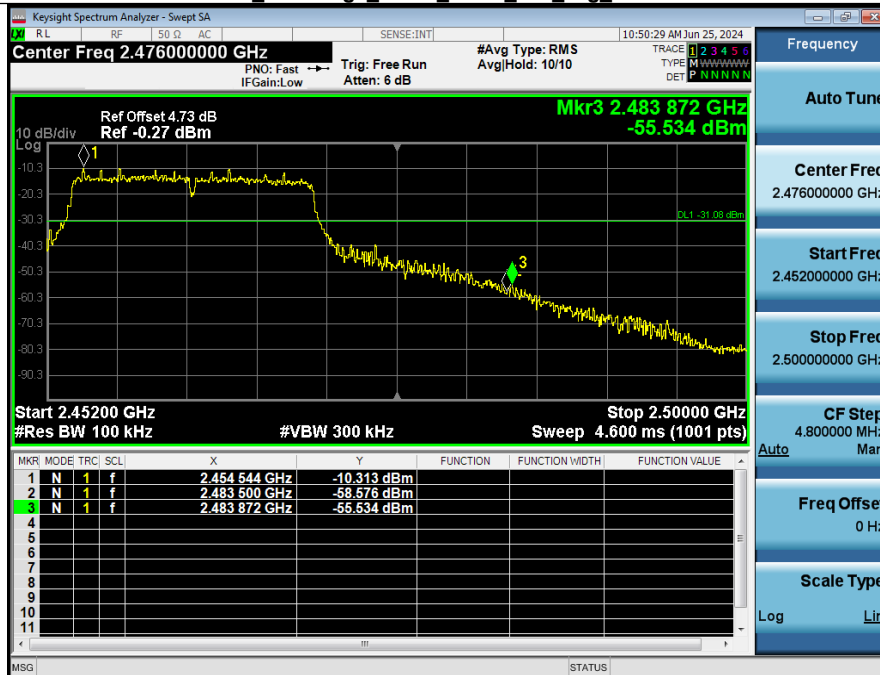
2 Bandedge_NVNT_ANT1_802_11g_2412



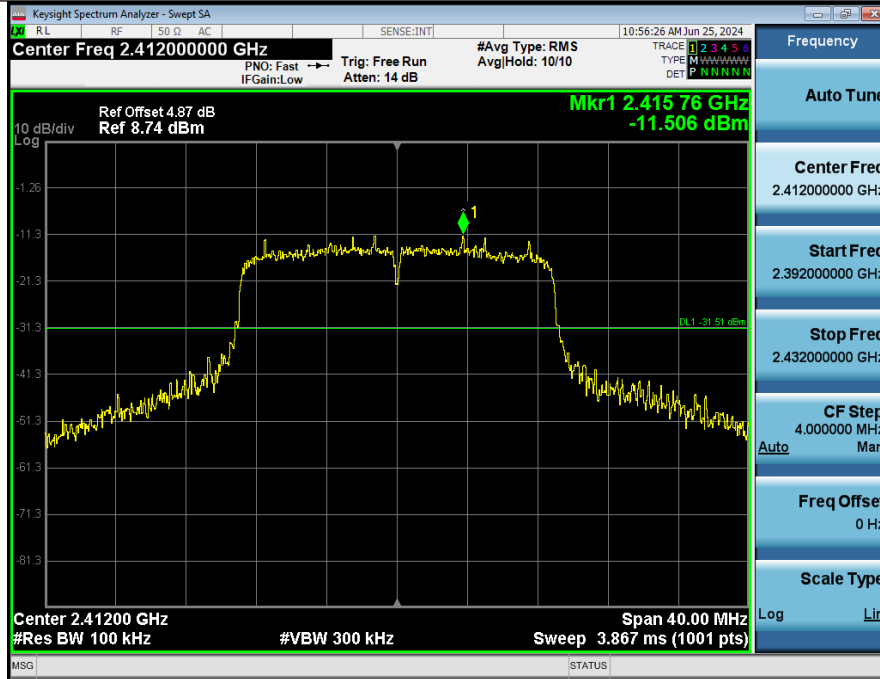
1 Reference Level_NVNT_ANT1_802_11g_2462



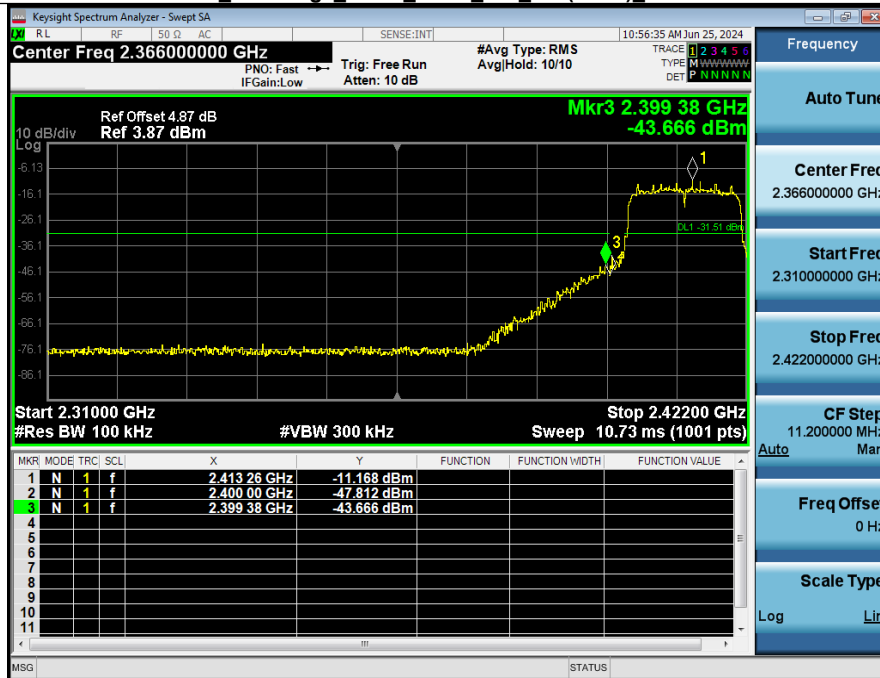
2 Bandedge_NVNT_ANT1_802_11g_2462



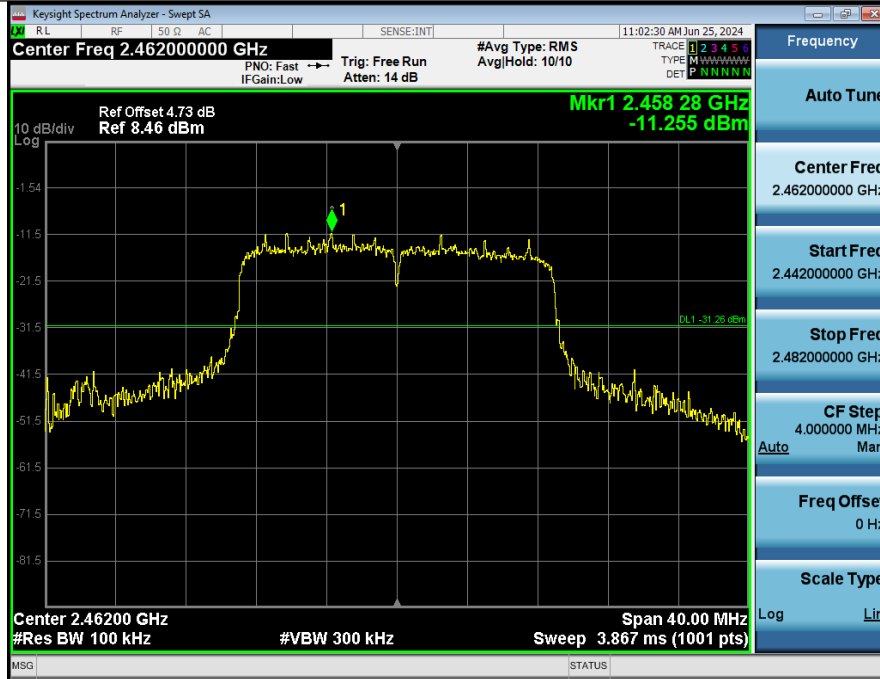
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



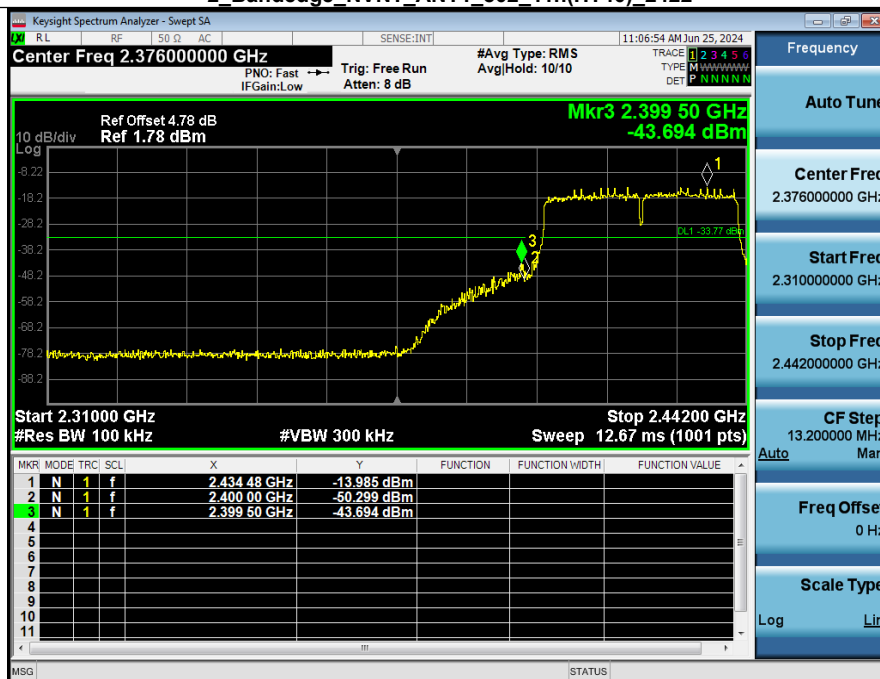
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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

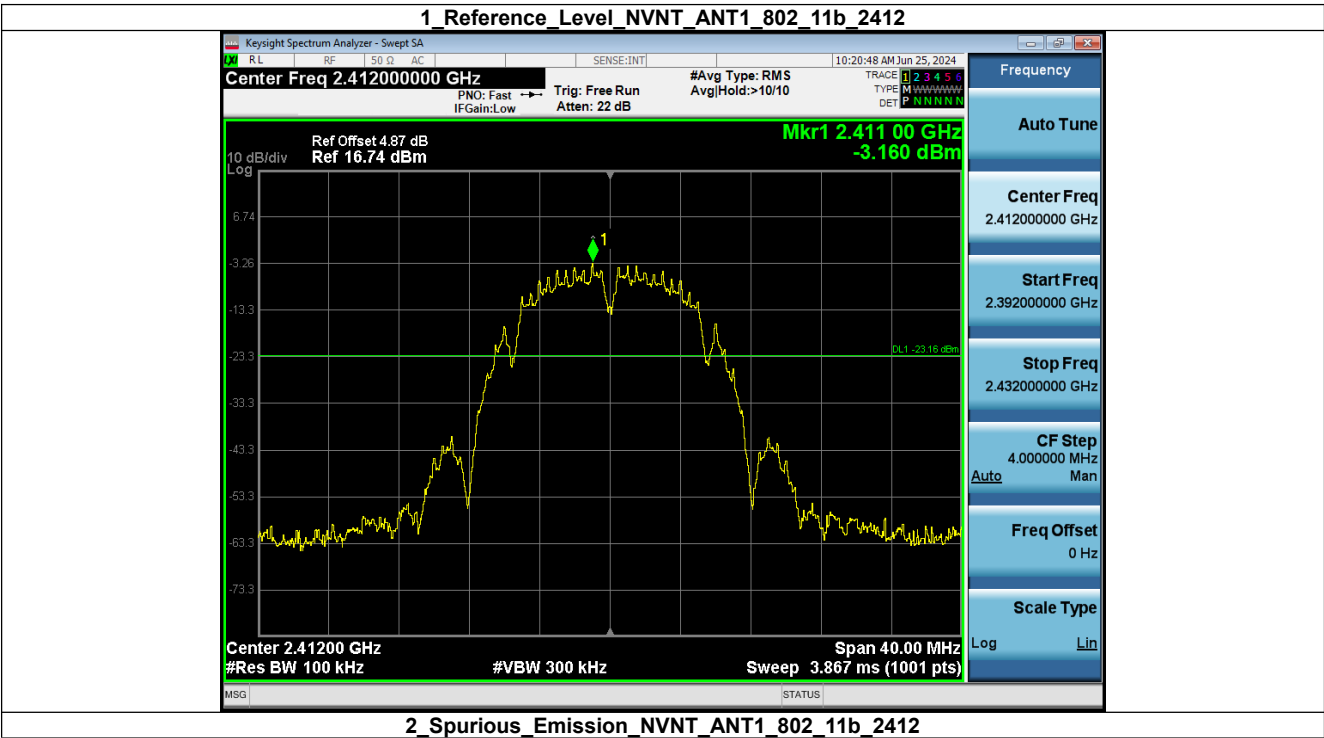


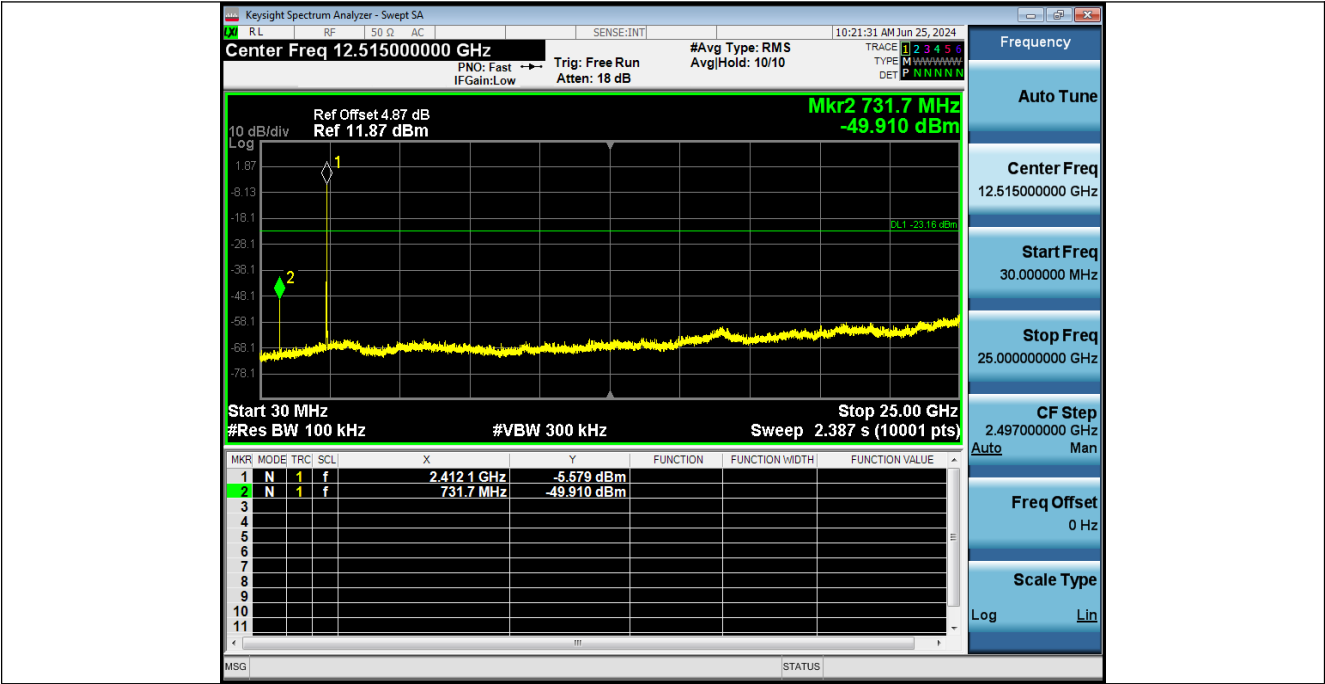
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	731.657	-49.910	-23.160	Pass
NVNT	ANT1	802.11b	2437.00	726.663	-38.667	-22.901	Pass
NVNT	ANT1	802.11b	2462.00	726.663	-45.135	-22.924	Pass
NVNT	ANT1	802.11g	2412.00	913.938	-51.194	-30.819	Pass
NVNT	ANT1	802.11g	2437.00	5213.772	-61.486	-30.407	Pass
NVNT	ANT1	802.11g	2462.00	2531.994	-52.337	-31.084	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24980.024	-63.536	-31.506	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	2536.988	-48.805	-31.229	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24977.527	-64.702	-31.255	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24460.648	-64.449	-33.774	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24982.521	-65.276	-33.226	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	5223.760	-64.413	-33.639	Pass

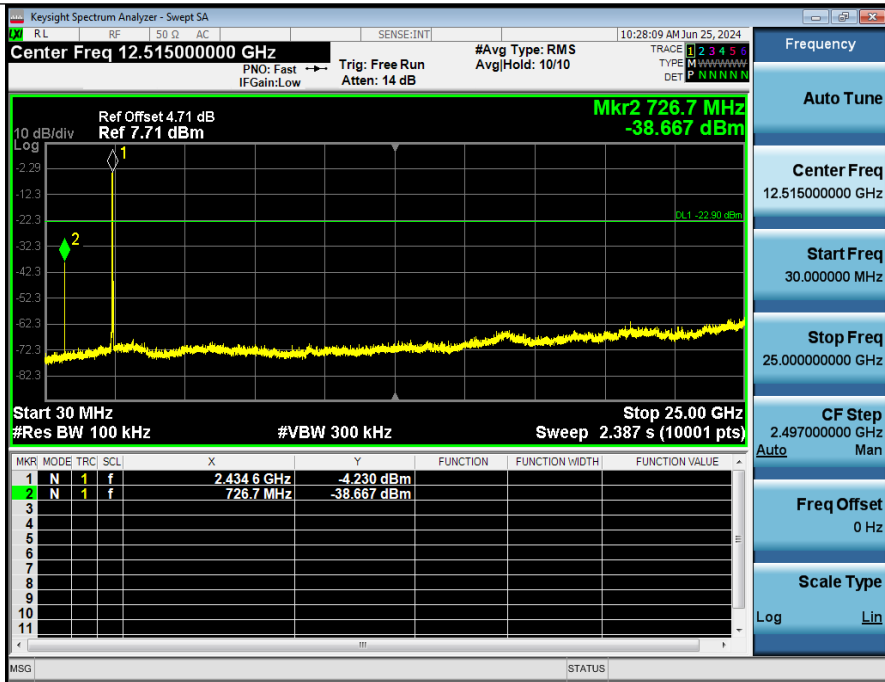




1 Reference Level NVNT_ANT1_802_11b_2437



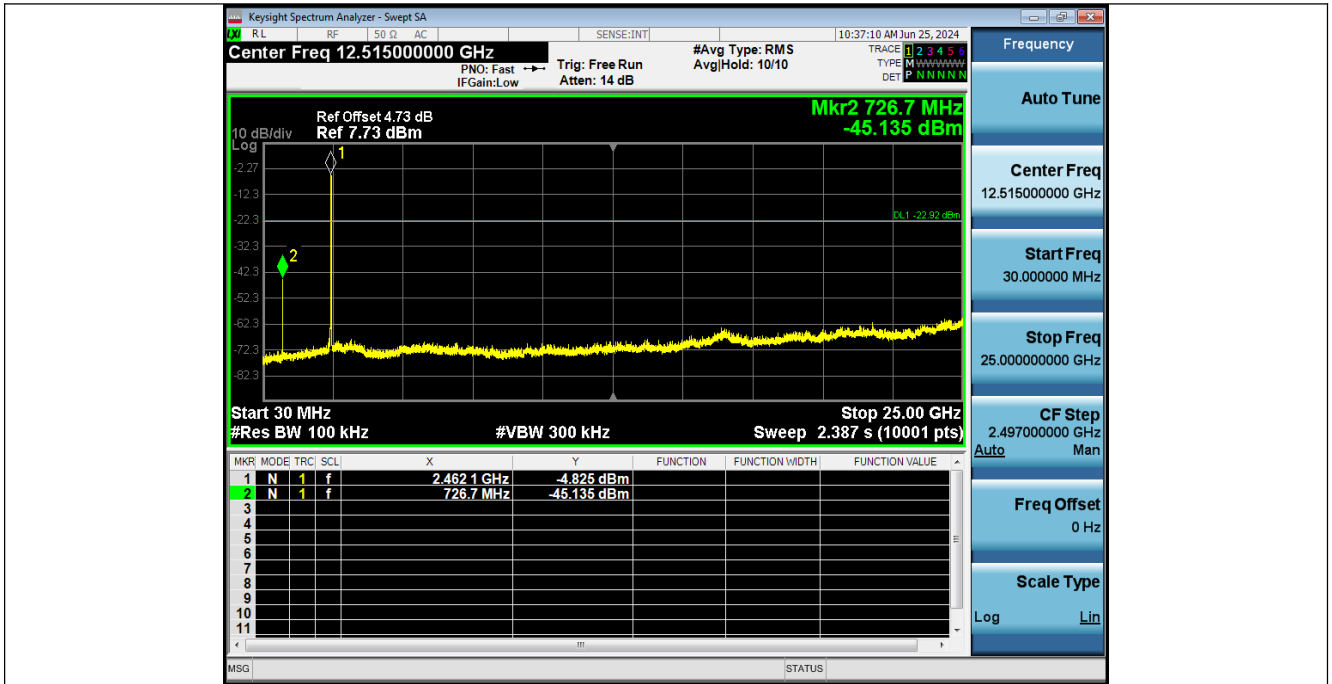
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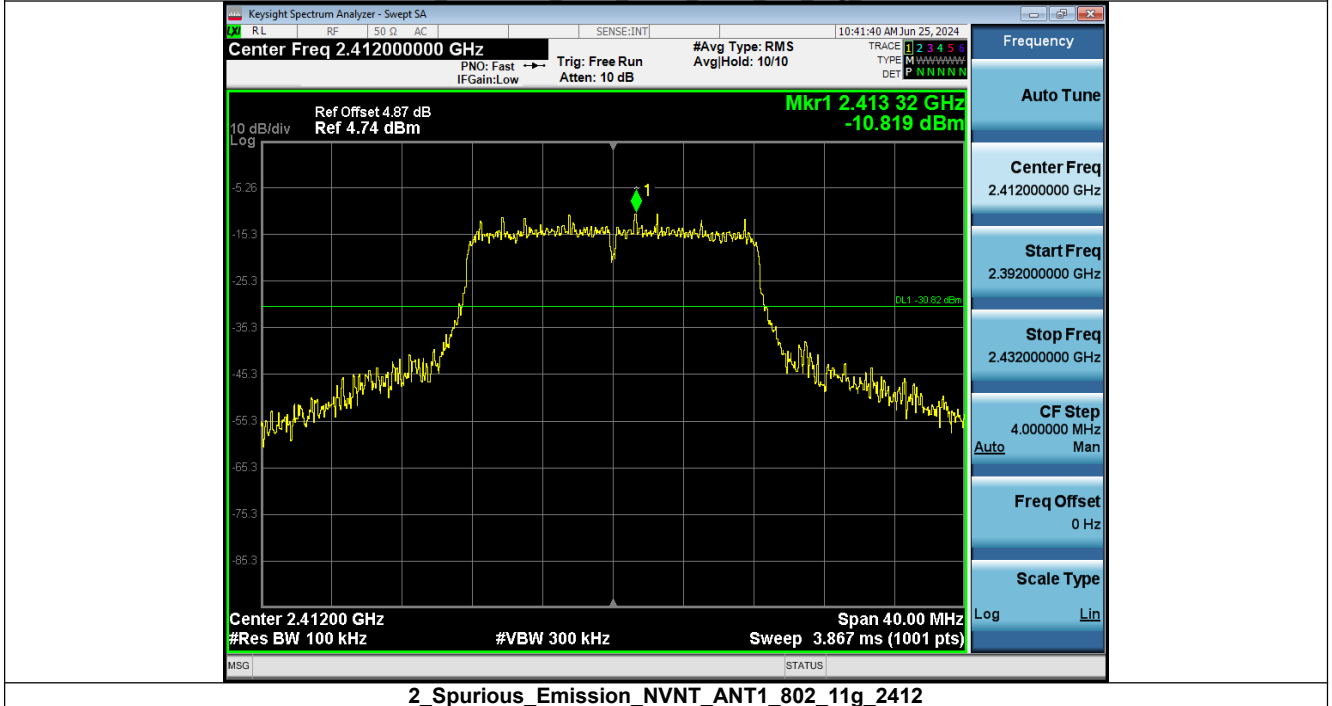
1 Reference Level NVNT_ANT1_802_11b_2462



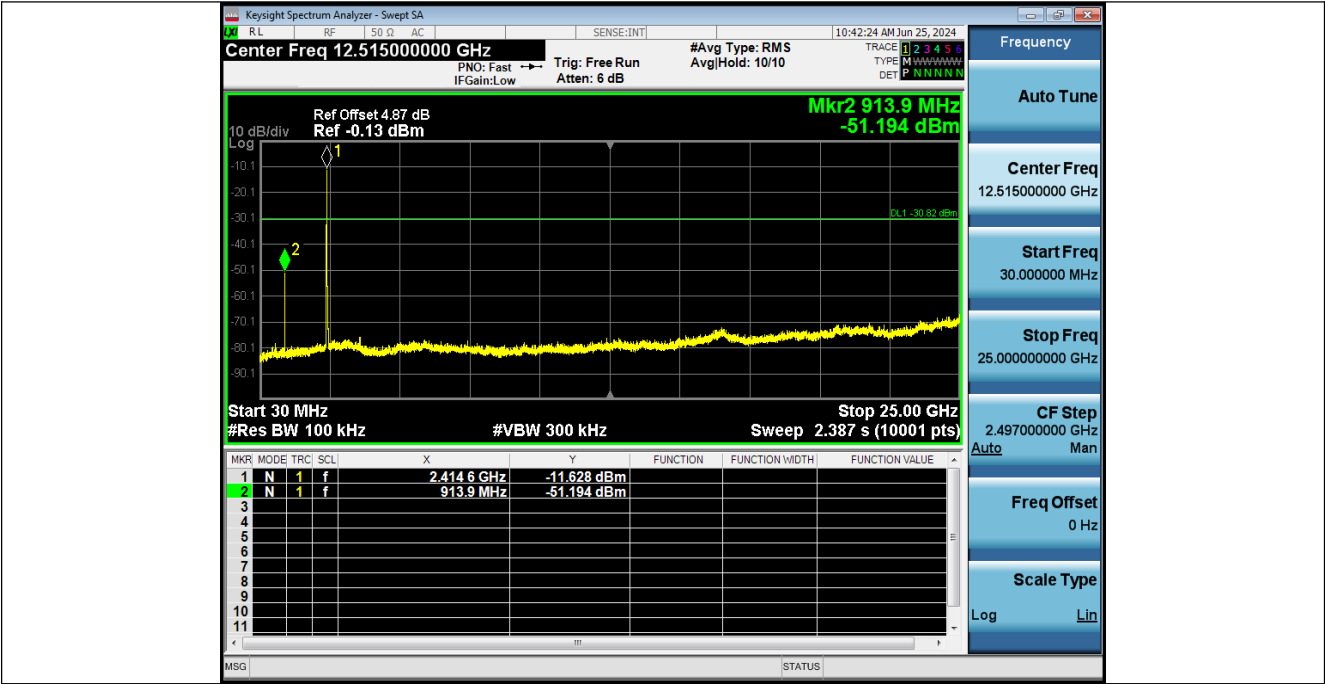
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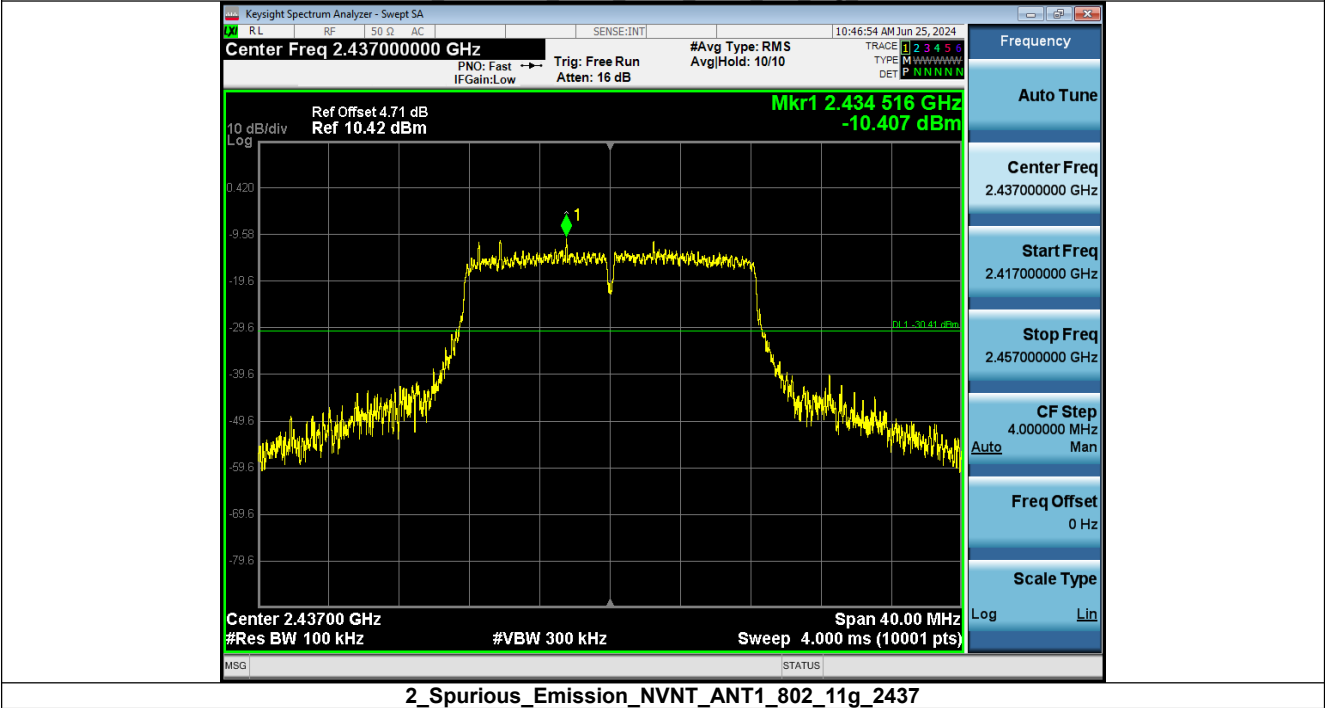
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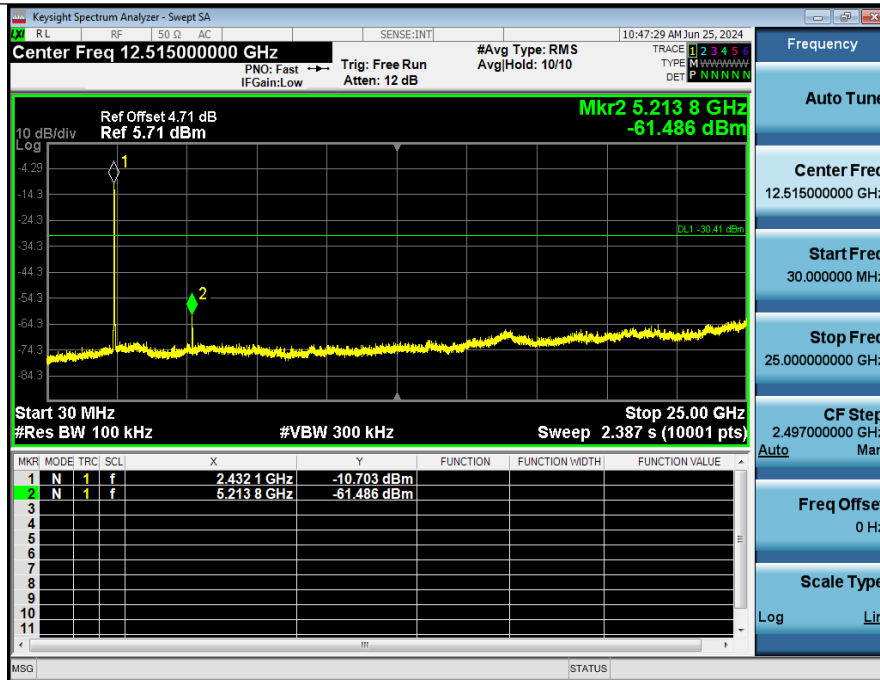
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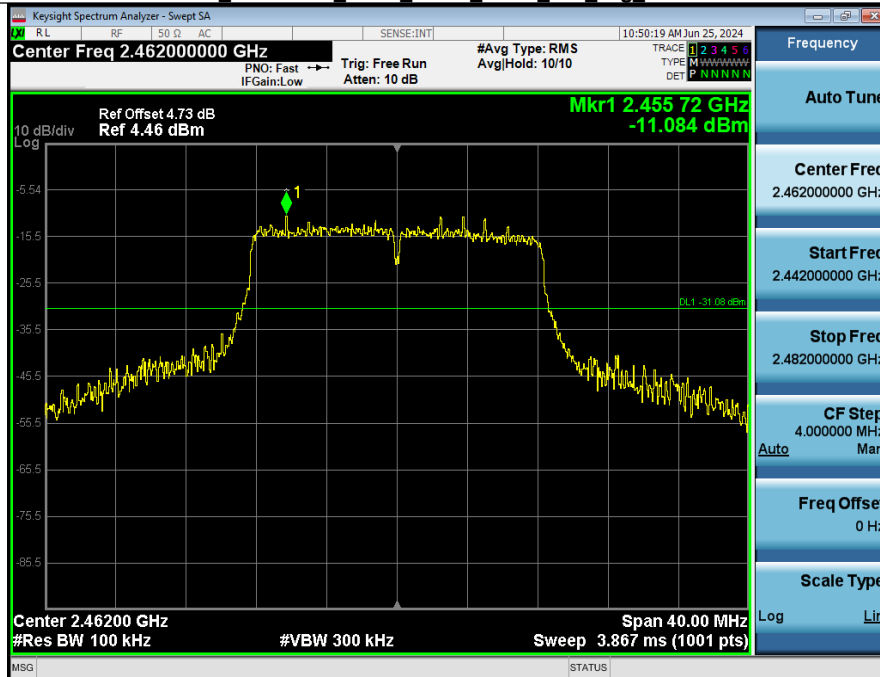
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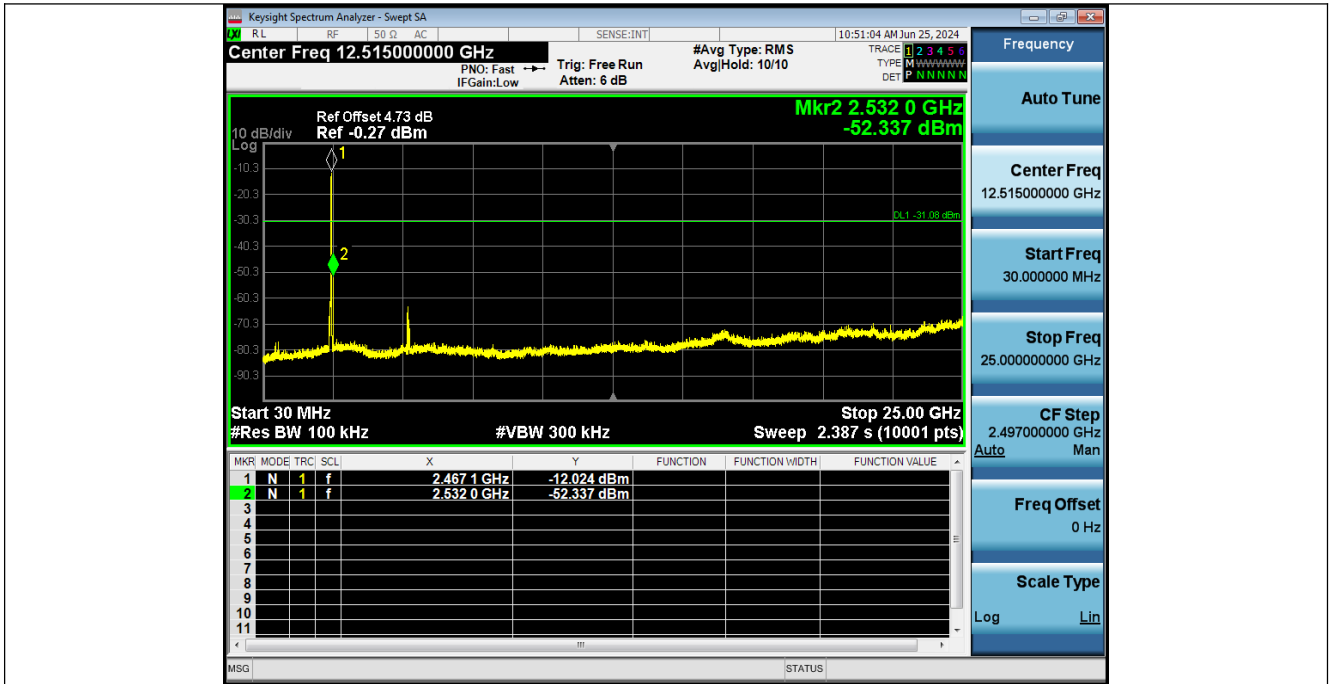
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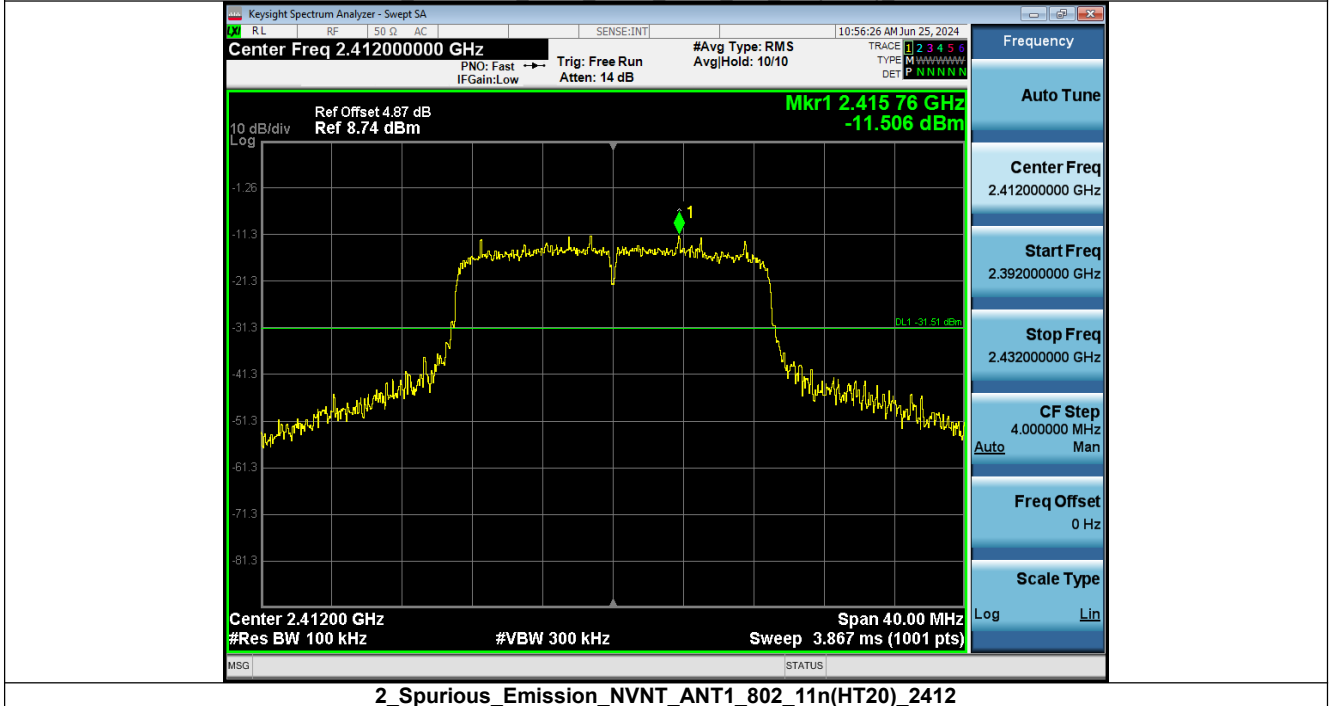
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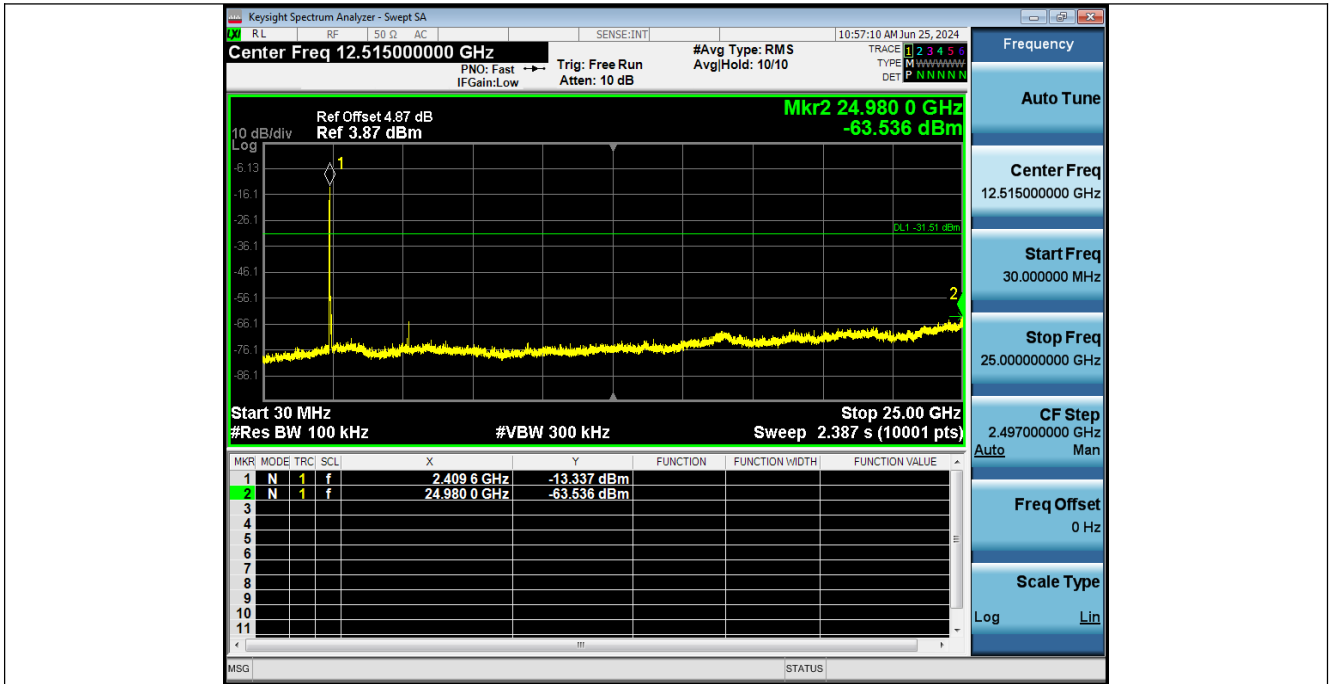
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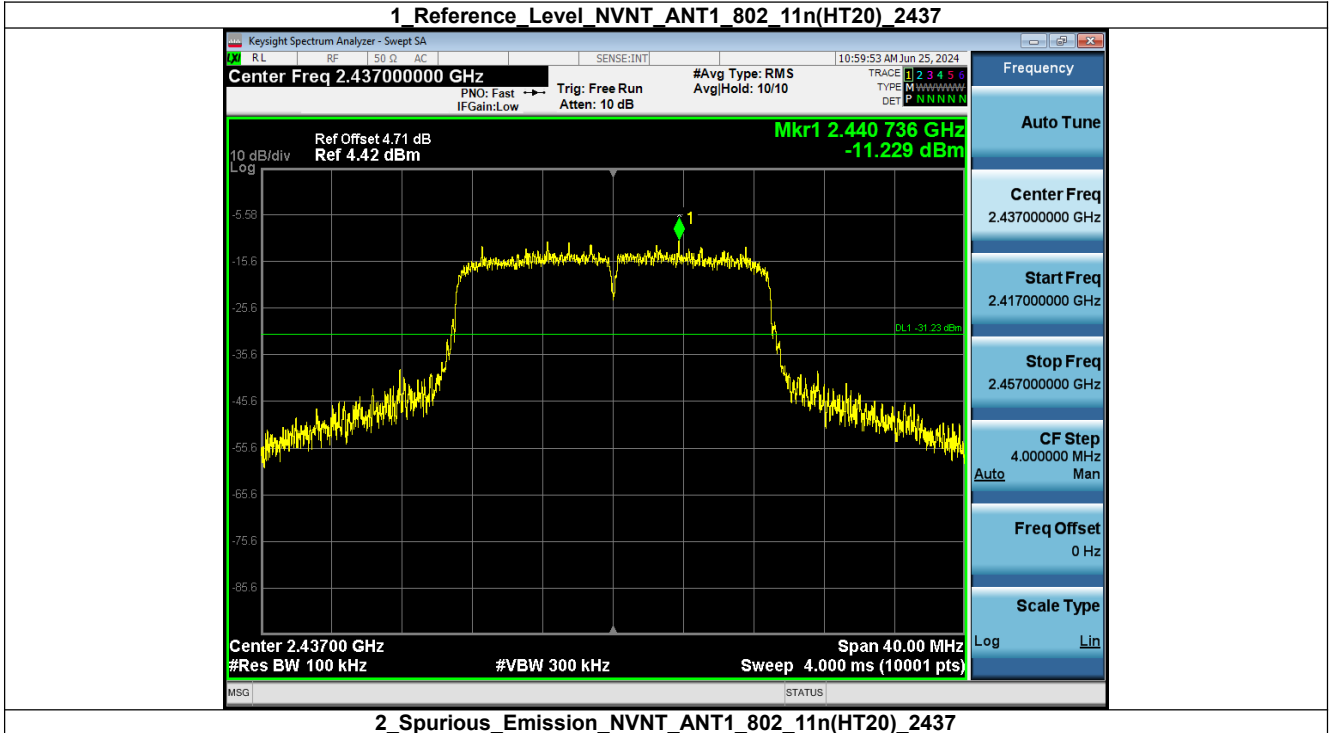
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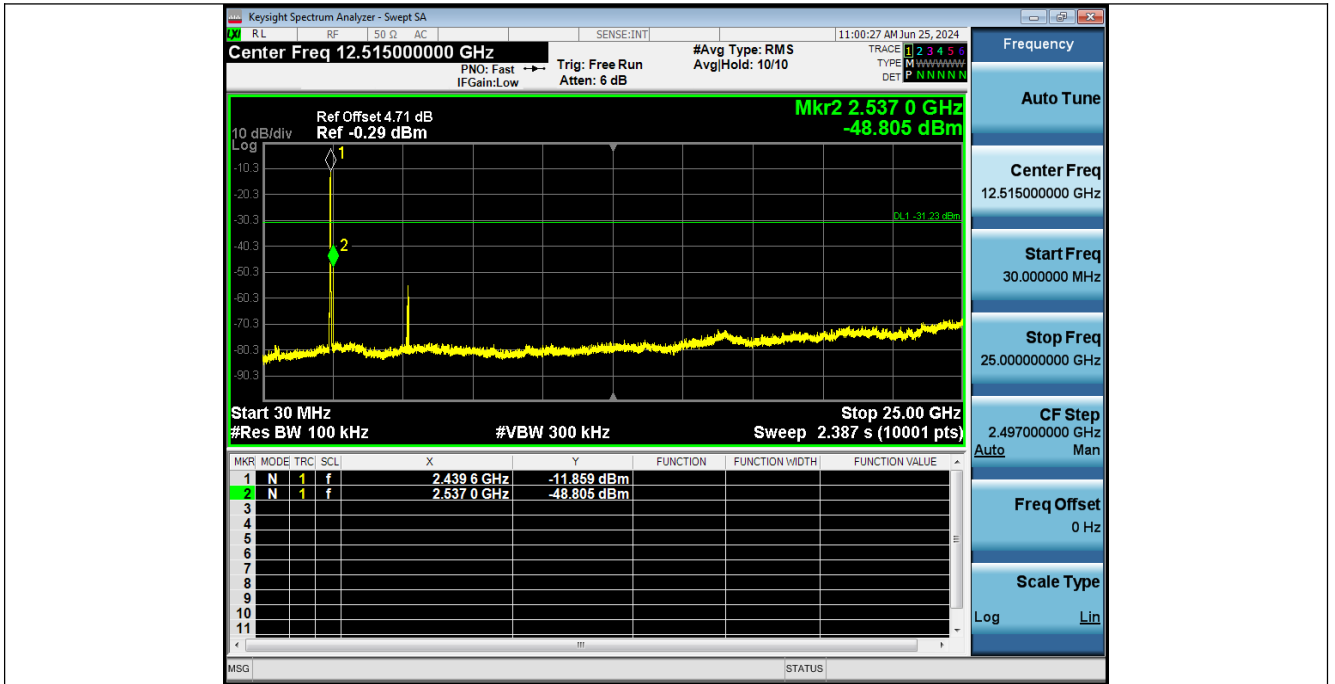
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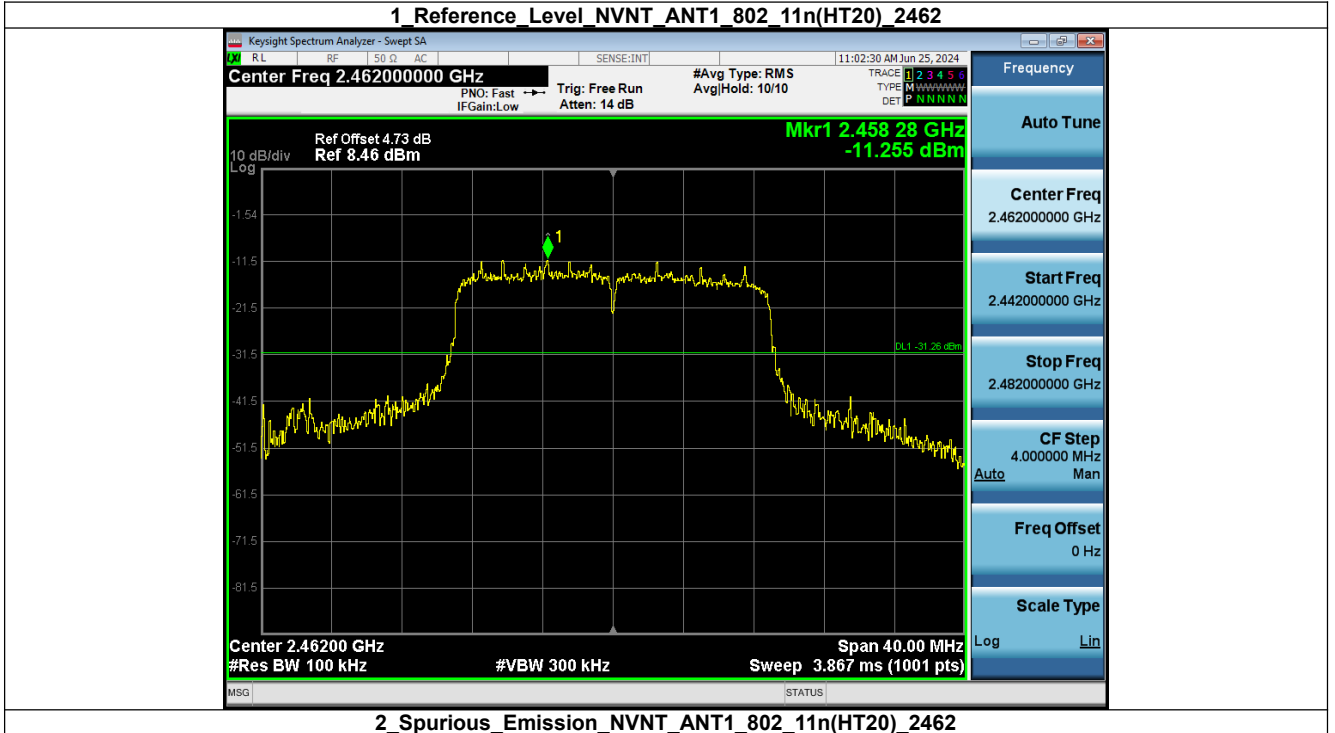
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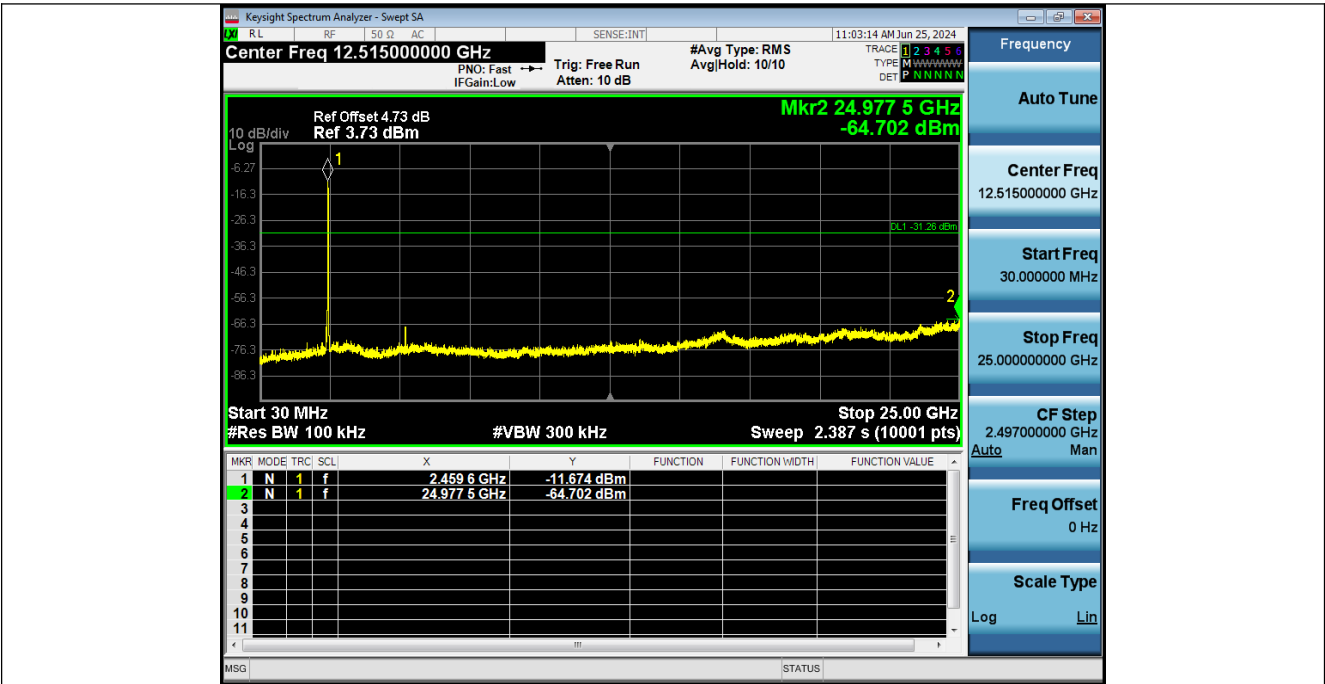
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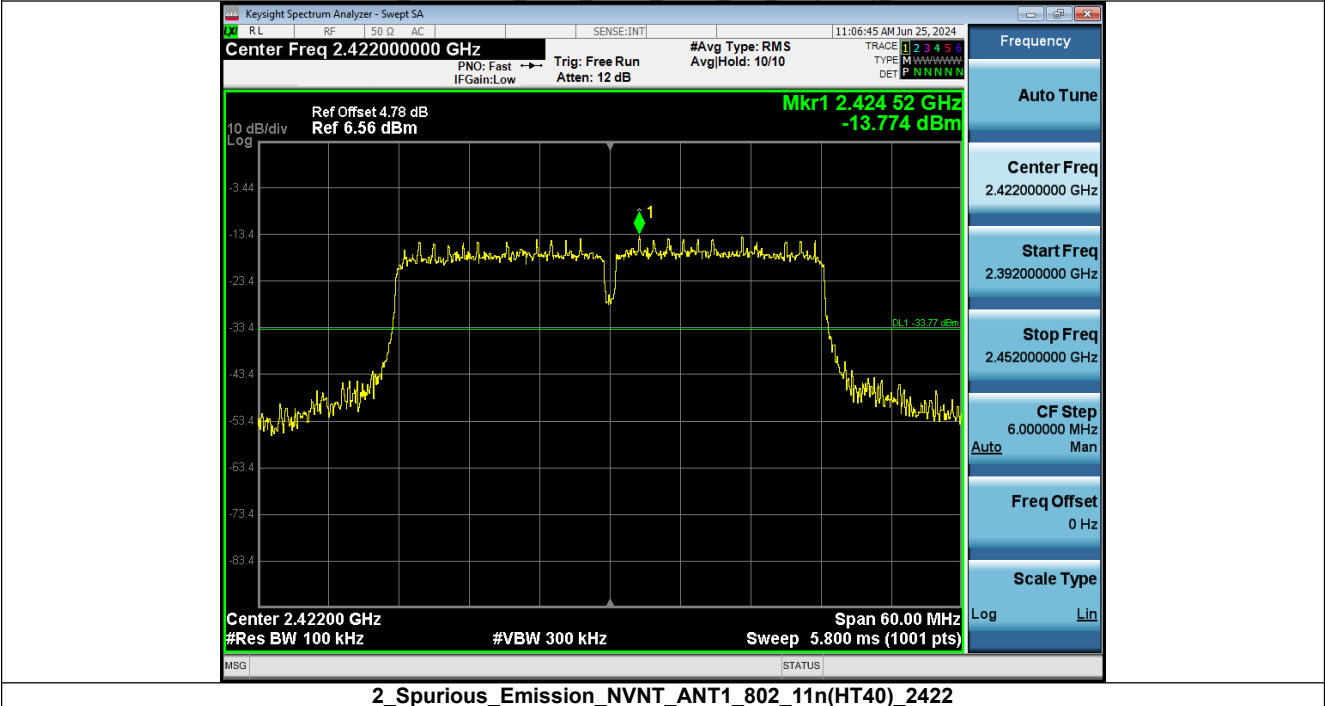
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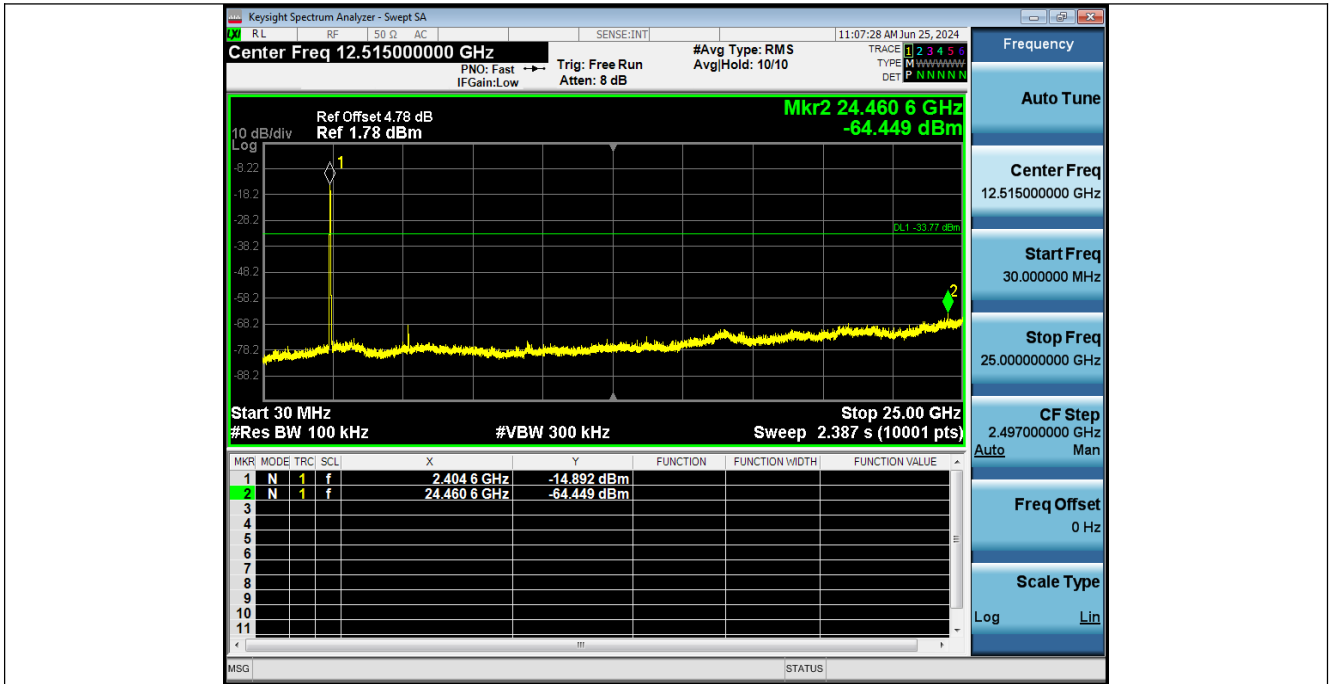
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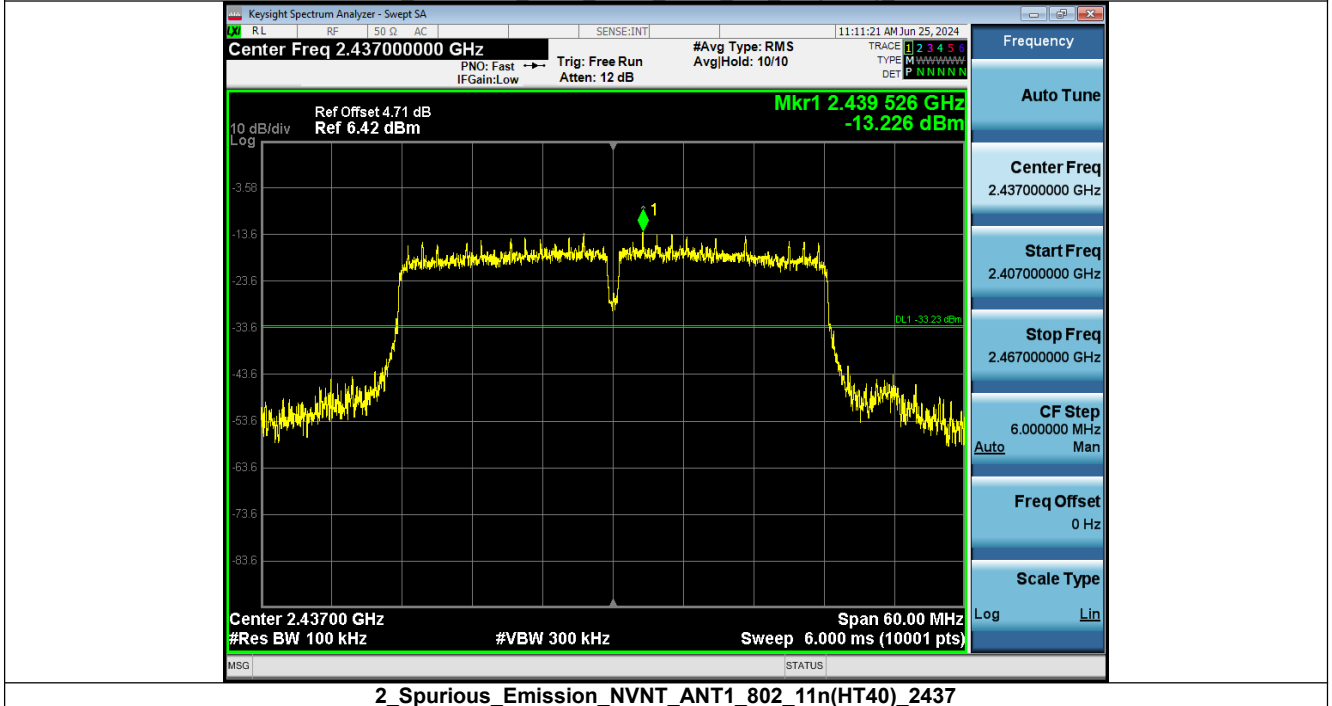
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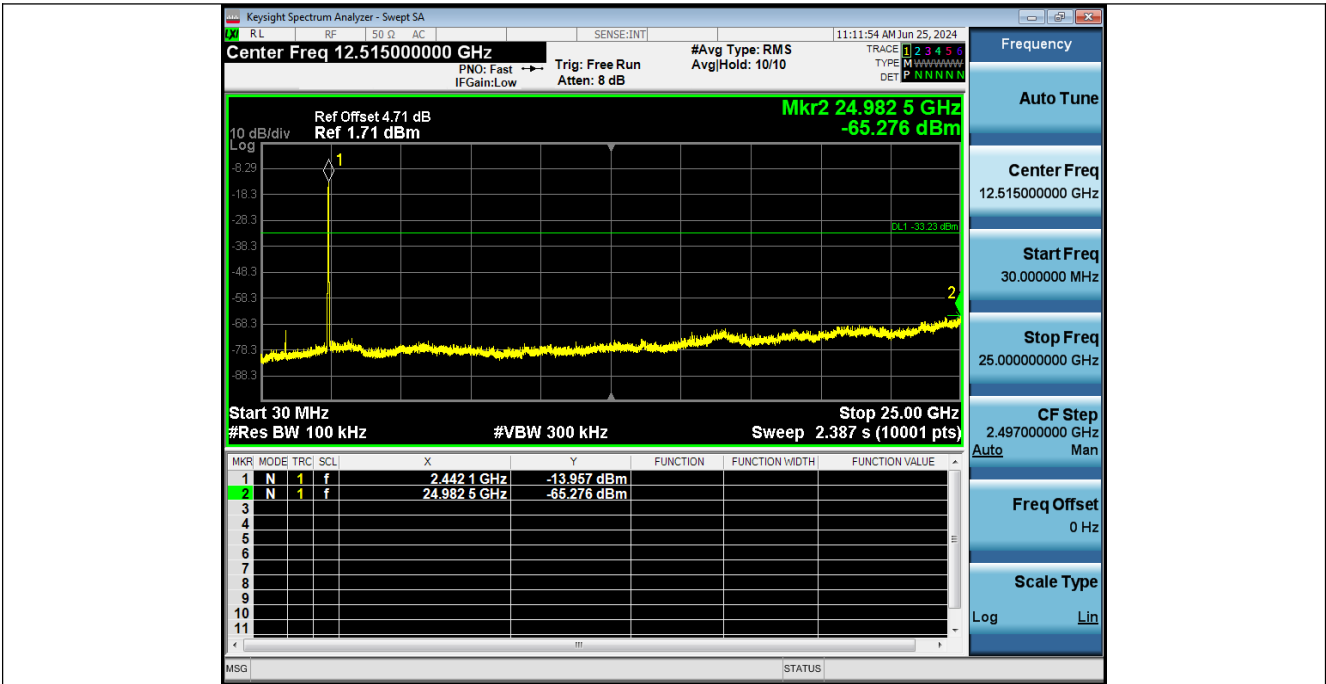
2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



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

