

Table of Contents

1. -6dB Bandwidth2

2. 99% Occupied Bandwidth12

3. Duty Cycle22

5. Power Spectral Density32

6. Bandedge42

7. Spurious Emission55

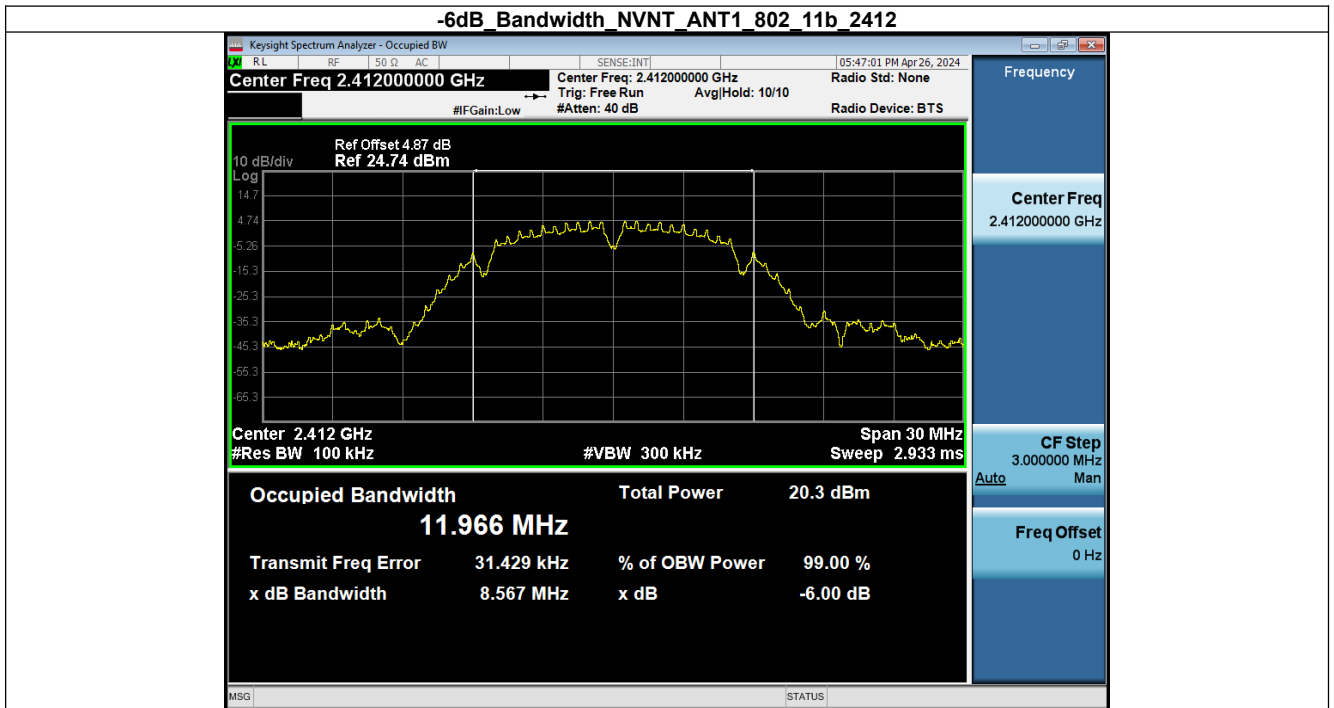
FCC ID:2BCAX-HY300PRO

IC:31576-HY300PRO

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	8.57	500	Pass
NVNT	ANT1	802.11b	2437.00	8.60	500	Pass
NVNT	ANT1	802.11b	2462.00	8.62	500	Pass
NVNT	ANT1	802.11g	2412.00	16.06	500	Pass
NVNT	ANT1	802.11g	2437.00	16.09	500	Pass
NVNT	ANT1	802.11g	2462.00	15.79	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.73	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.75	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.01	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	17.02	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	17.17	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	17.42	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.65	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.27	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.36	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	35.94	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	35.60	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	35.71	500	Pass



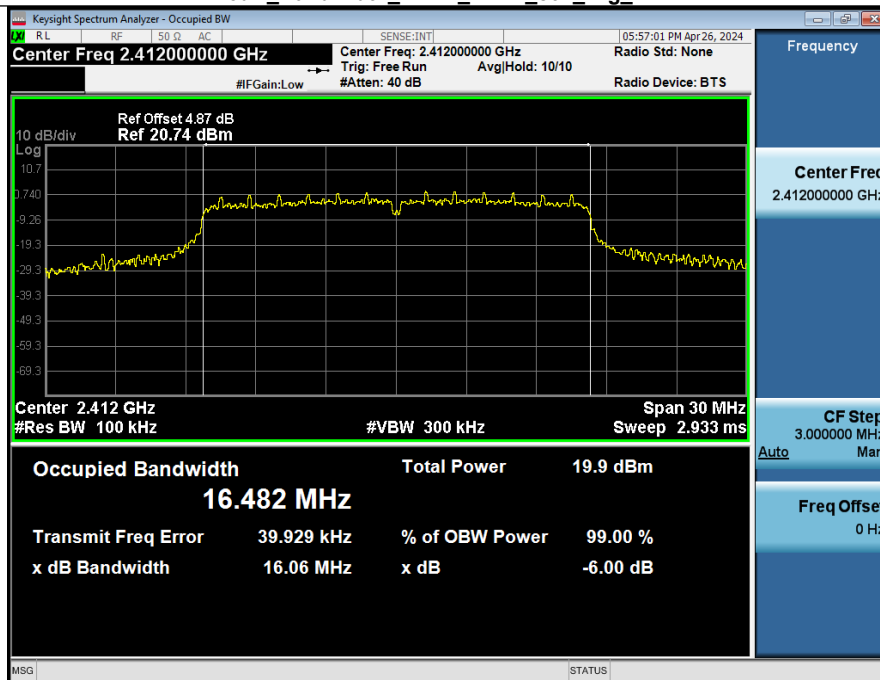
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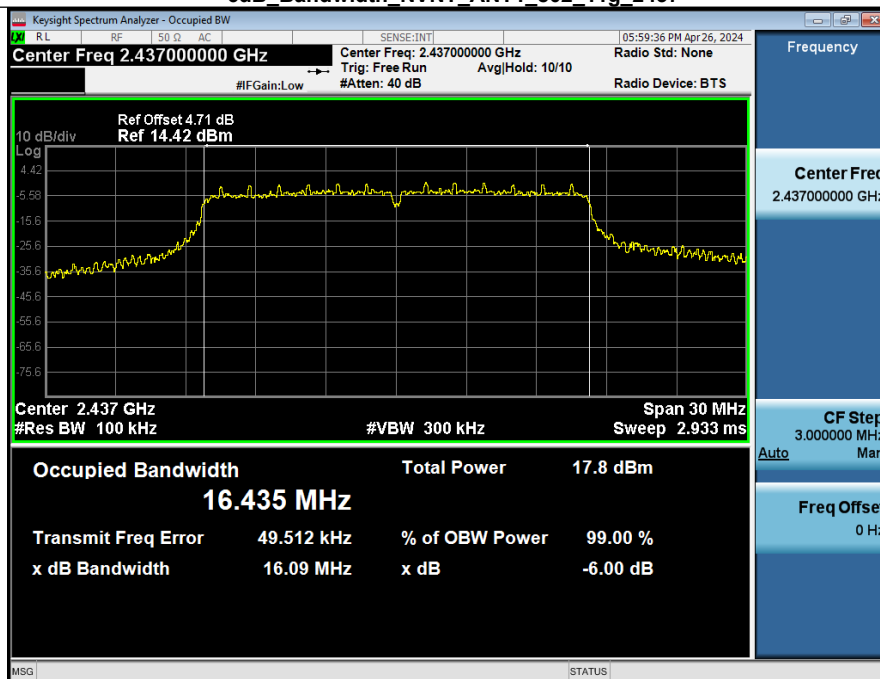
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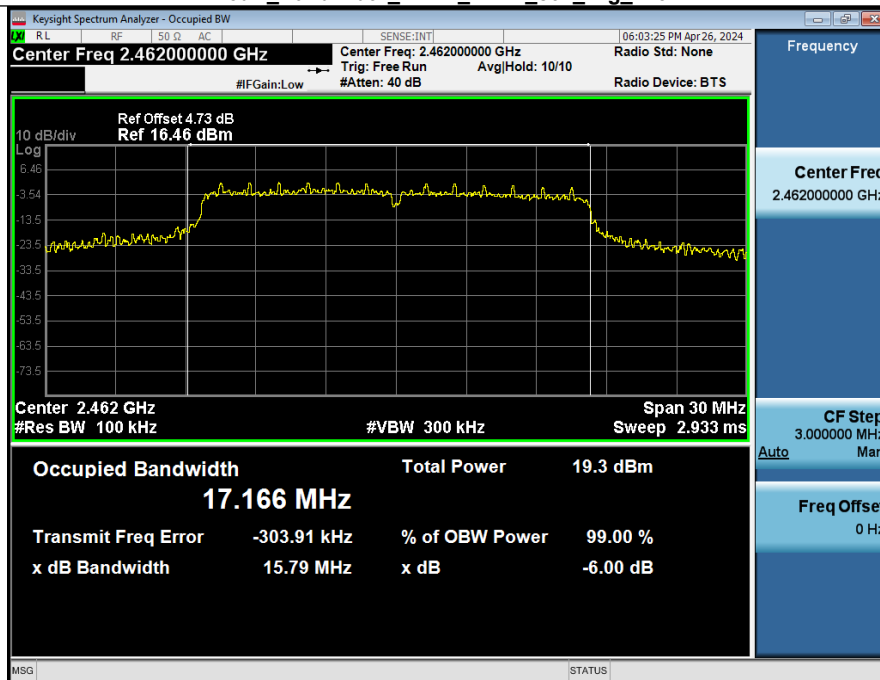
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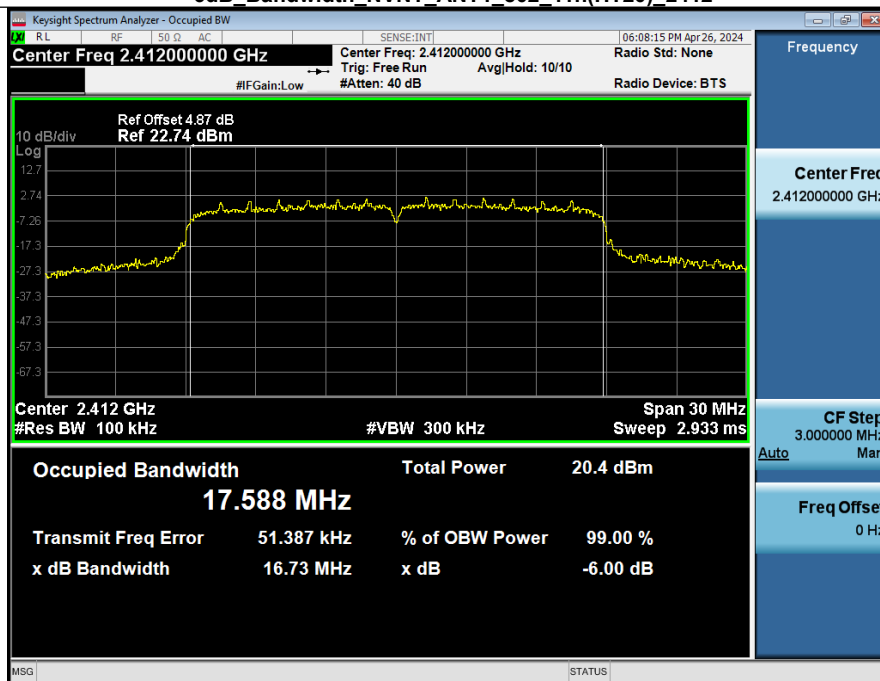
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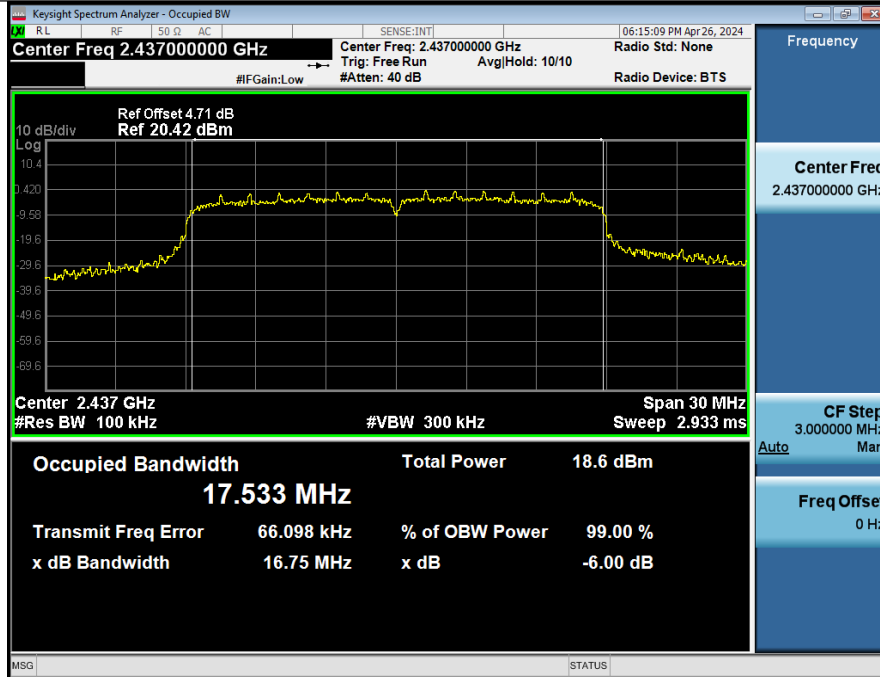
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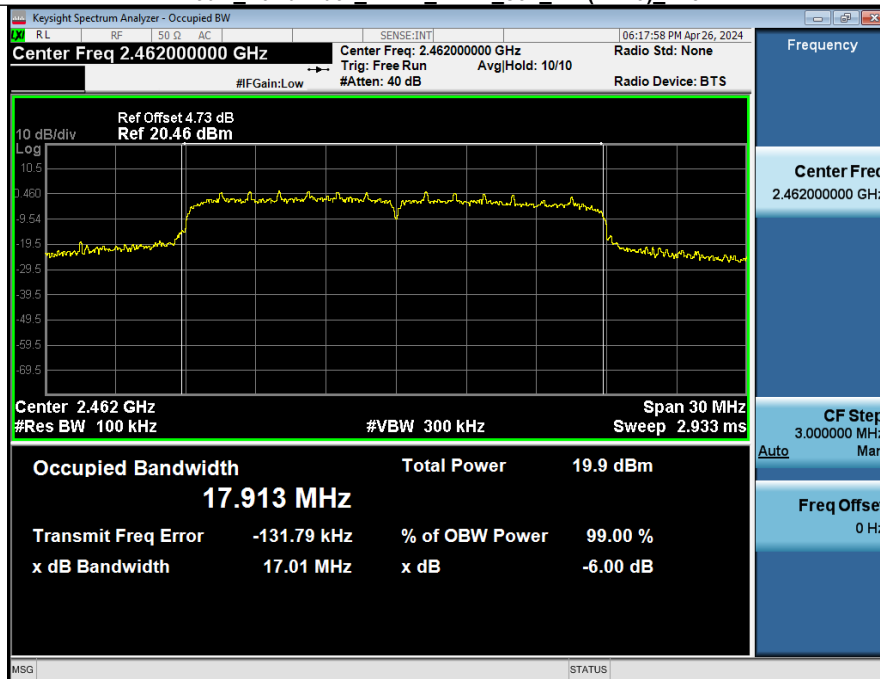
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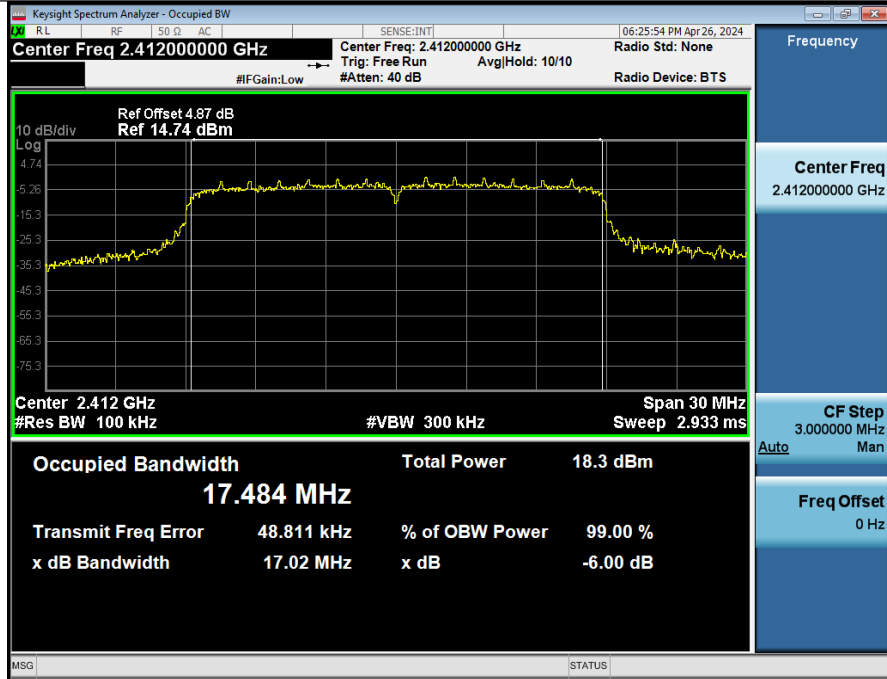
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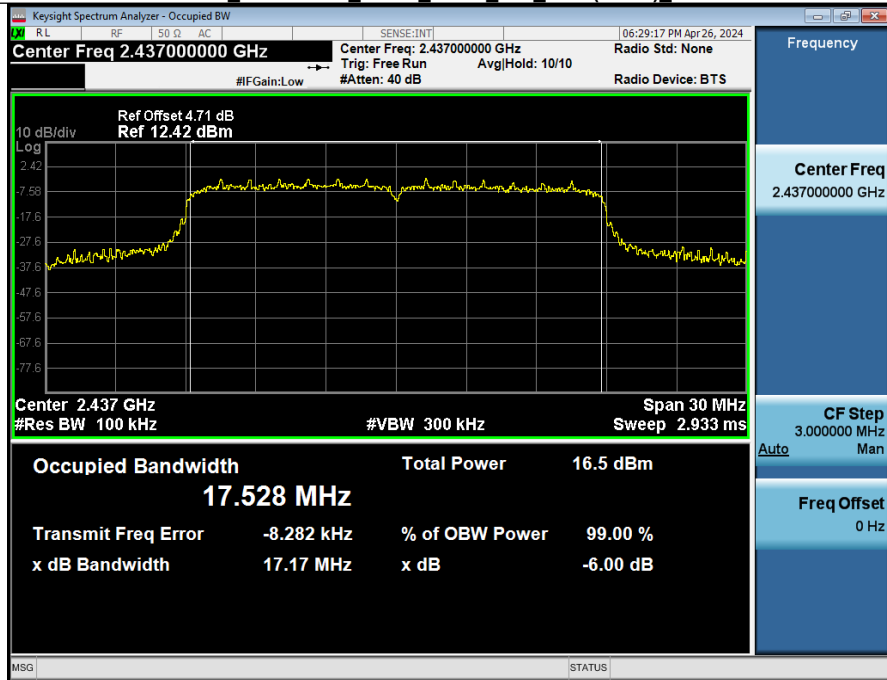
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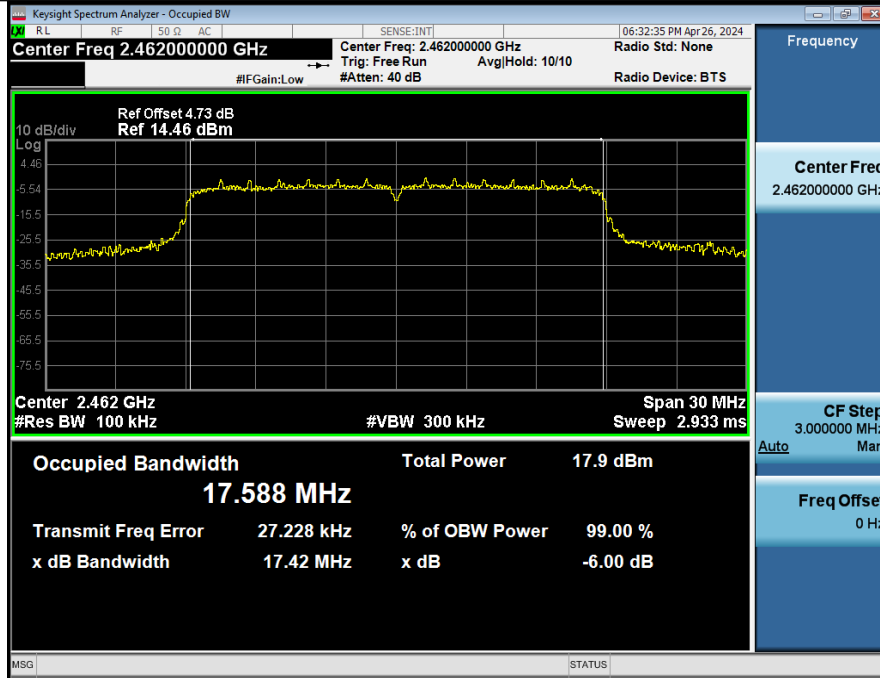
-6dB Bandwidth NVNT_ANT1_802_11ax(HE20)_2412



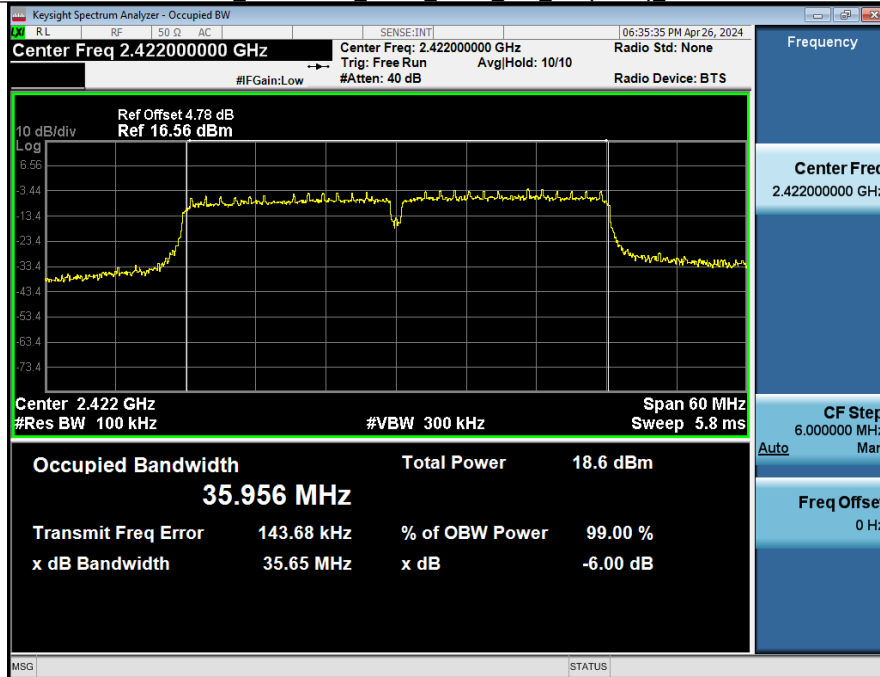
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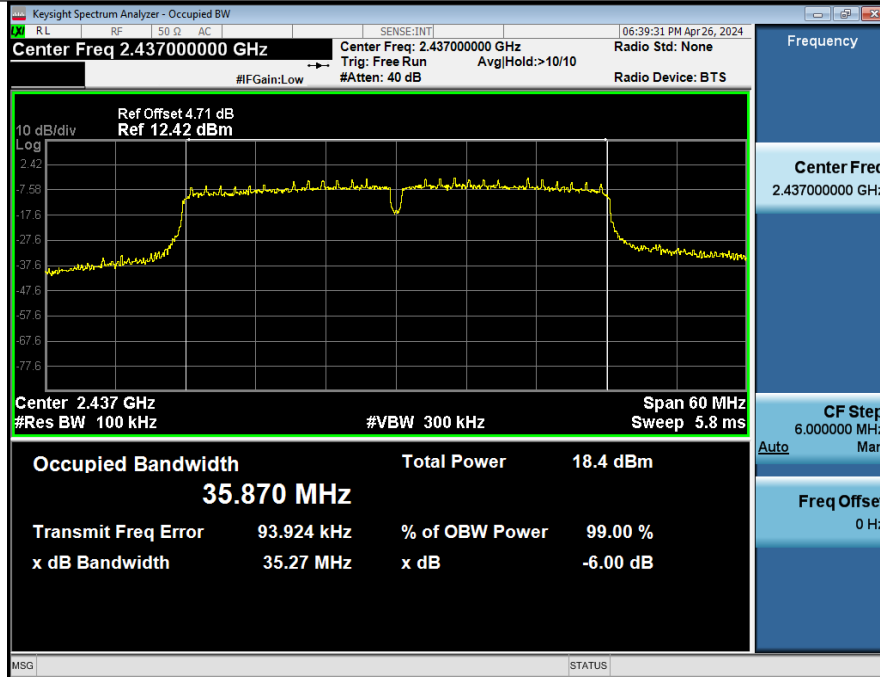
-6dB Bandwidth NVNT ANT1_802_11ax(HE20)_2462



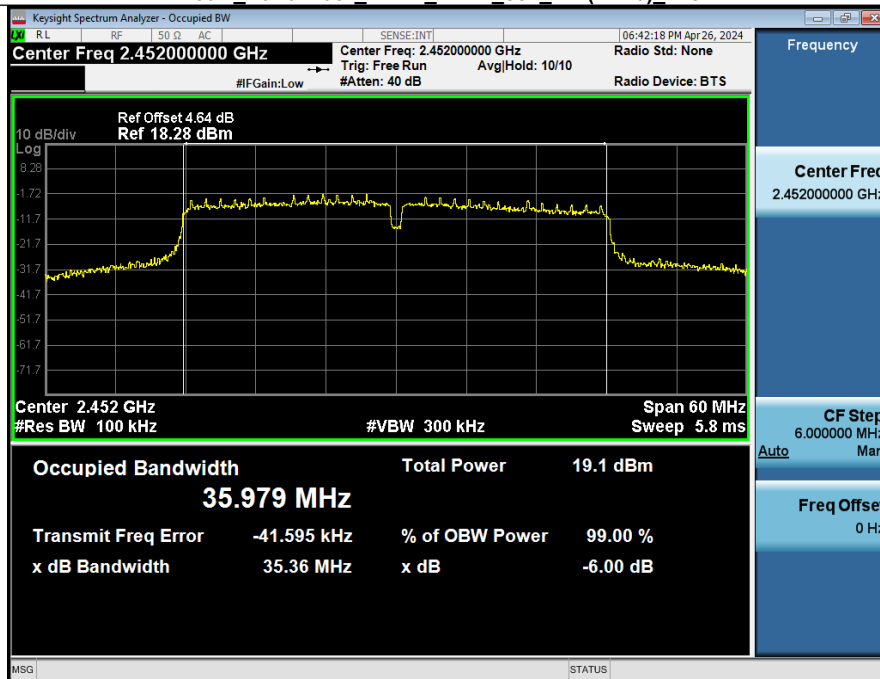
-6dB Bandwidth NVNT ANT1_802_11n(HT40)_2422



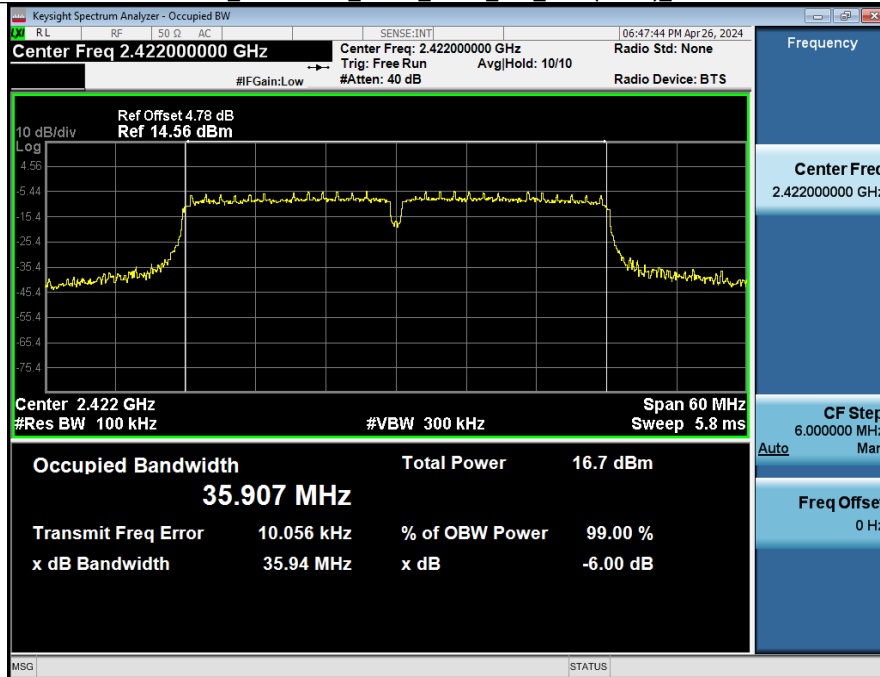
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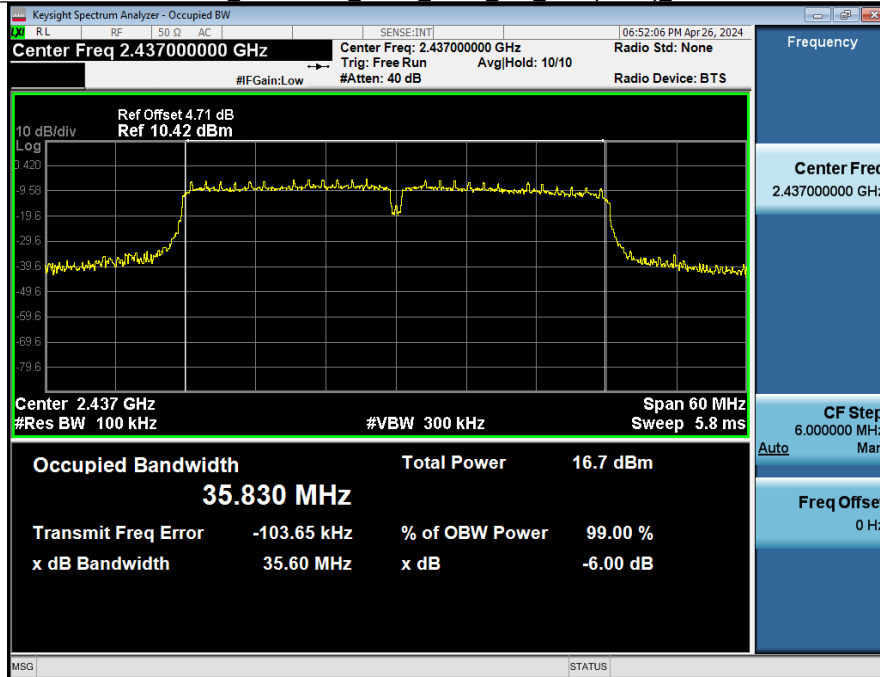
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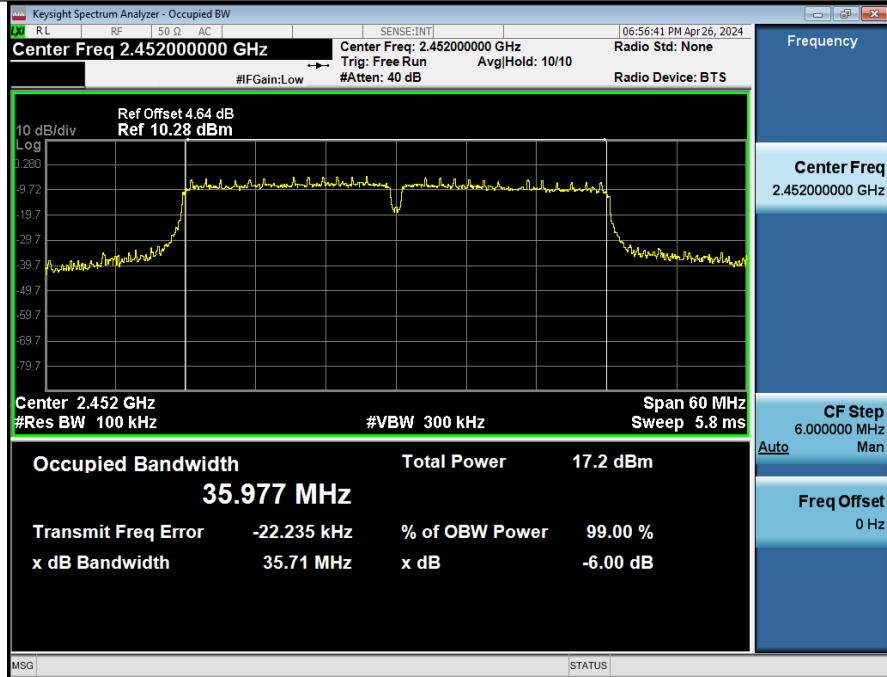
-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2422



-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2437

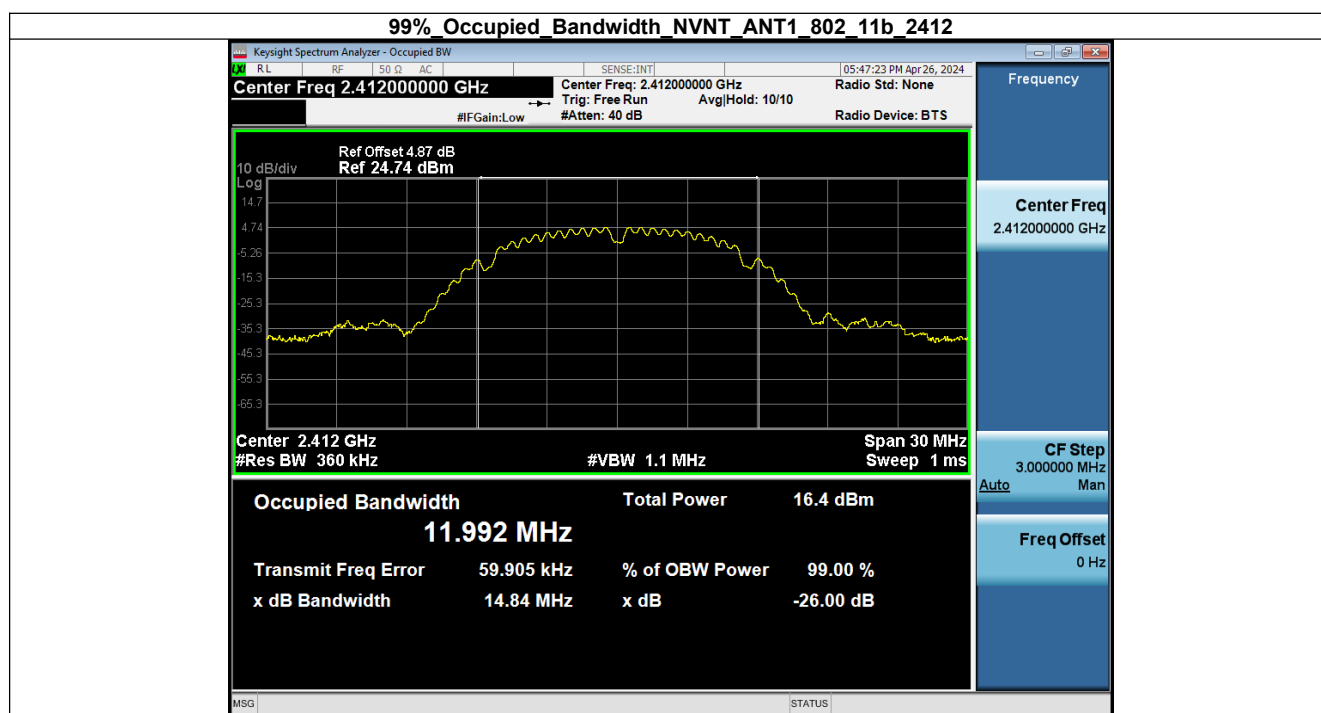


-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	11.992
NVNT	ANT1	802.11b	2437.00	11.915
NVNT	ANT1	802.11b	2462.00	12.442
NVNT	ANT1	802.11g	2412.00	17.636
NVNT	ANT1	802.11g	2437.00	17.221
NVNT	ANT1	802.11g	2462.00	18.660
NVNT	ANT1	802.11n(HT20)	2412.00	18.212
NVNT	ANT1	802.11n(HT20)	2437.00	17.906
NVNT	ANT1	802.11n(HT20)	2462.00	18.966
NVNT	ANT1	802.11ax(HE20)	2412.00	17.812
NVNT	ANT1	802.11ax(HE20)	2437.00	17.829
NVNT	ANT1	802.11ax(HE20)	2462.00	18.027
NVNT	ANT1	802.11n(HT40)	2422.00	36.578
NVNT	ANT1	802.11n(HT40)	2437.00	36.233
NVNT	ANT1	802.11n(HT40)	2452.00	36.445
NVNT	ANT1	802.11ax(HE40)	2422.00	36.303
NVNT	ANT1	802.11ax(HE40)	2437.00	36.242
NVNT	ANT1	802.11ax(HE40)	2452.00	36.537



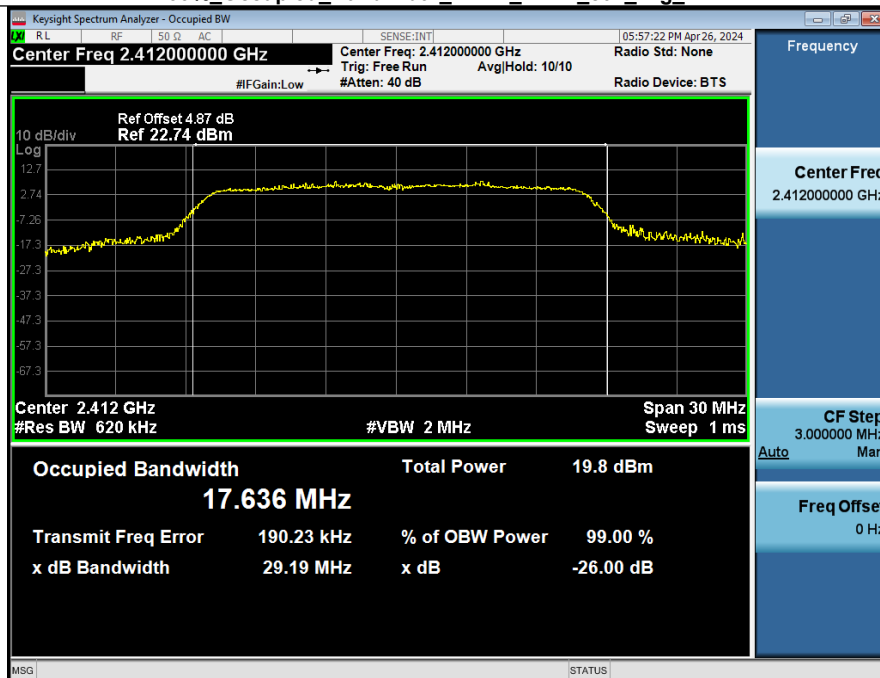
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



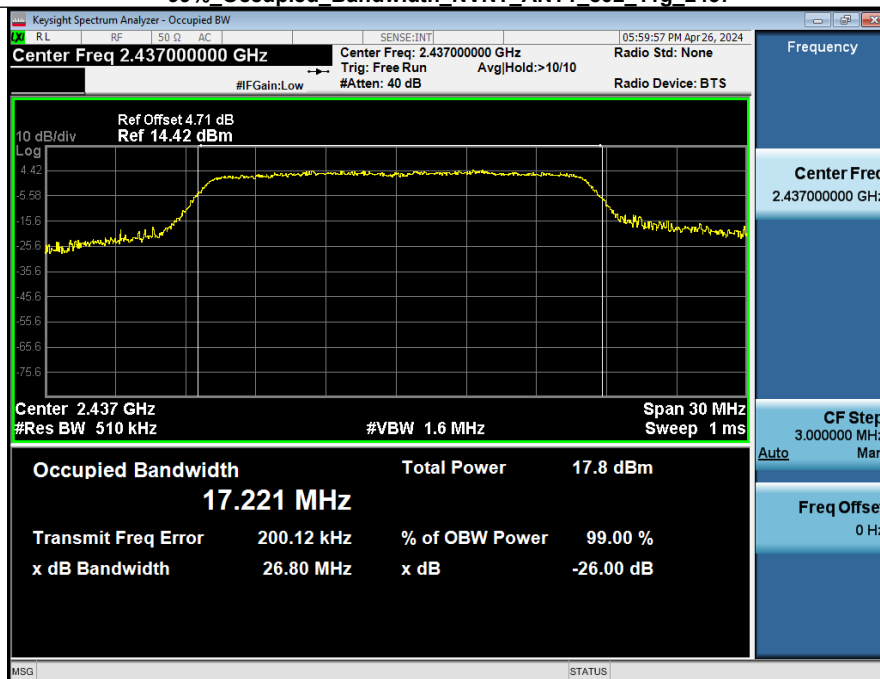
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



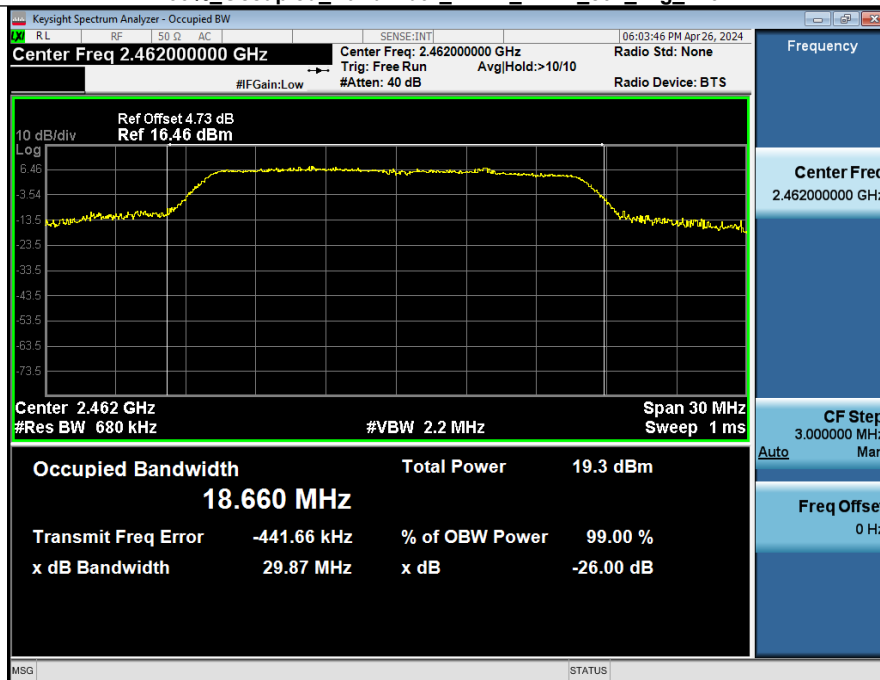
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



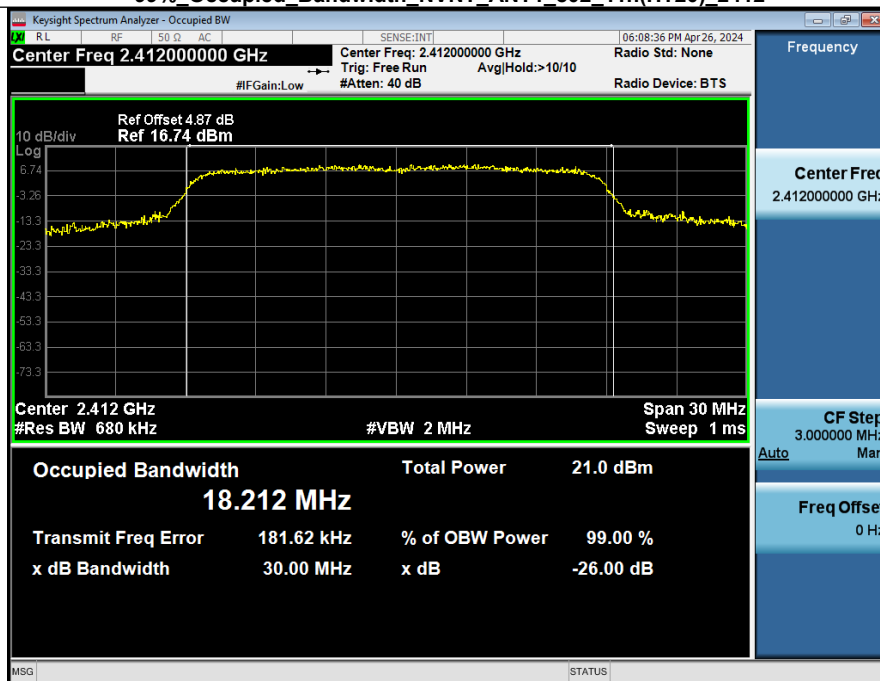
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437

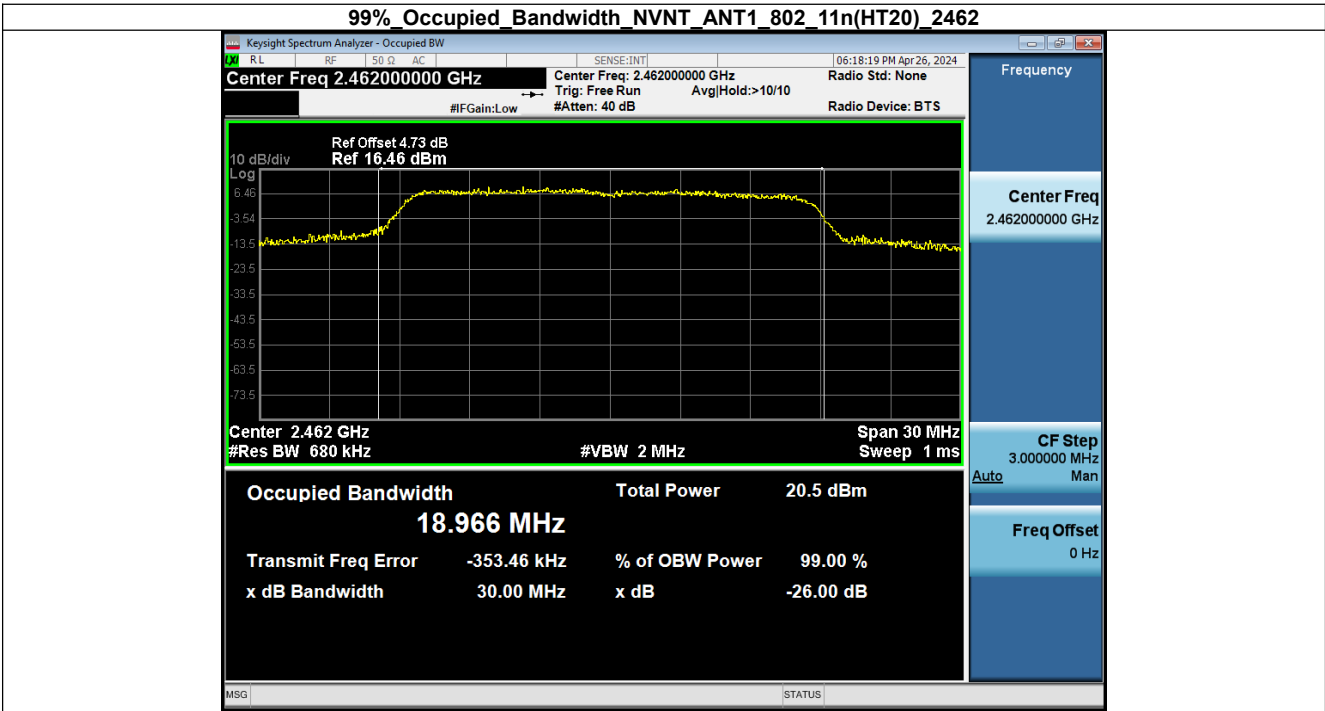
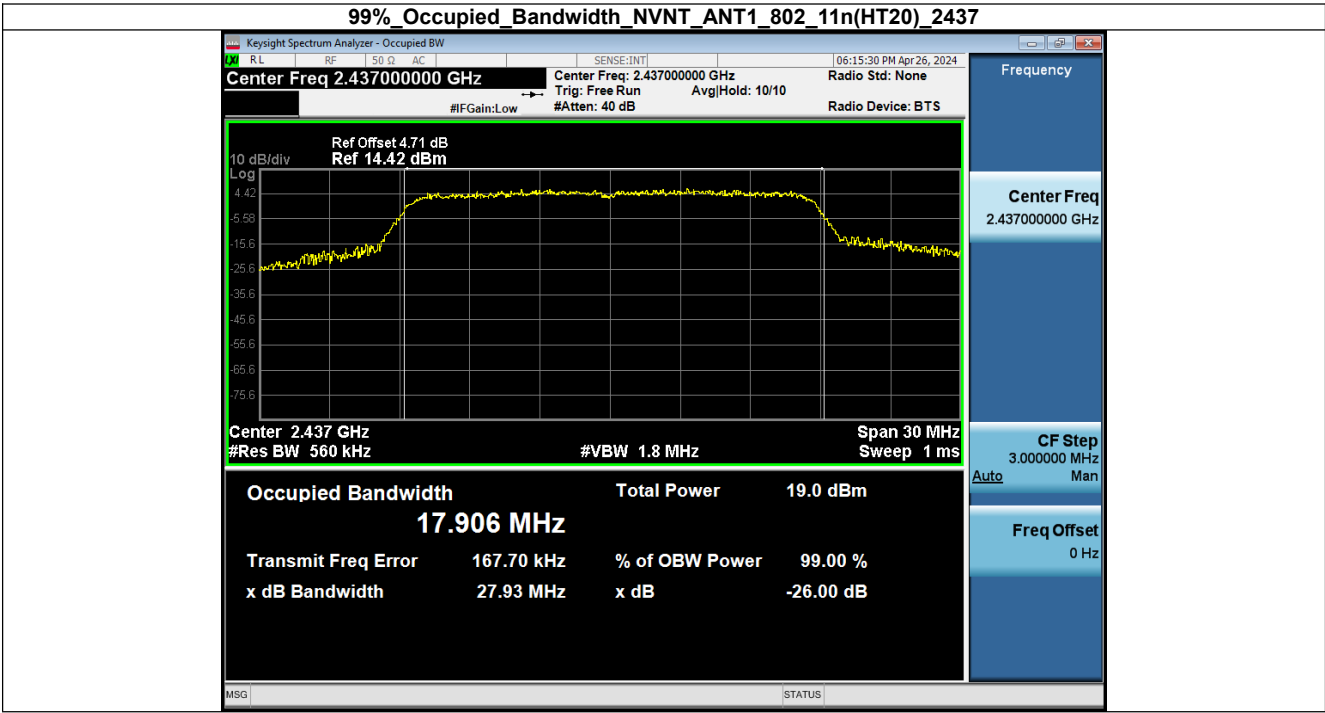


99% Occupied Bandwidth NVNT_ANT1_802_11g_2462

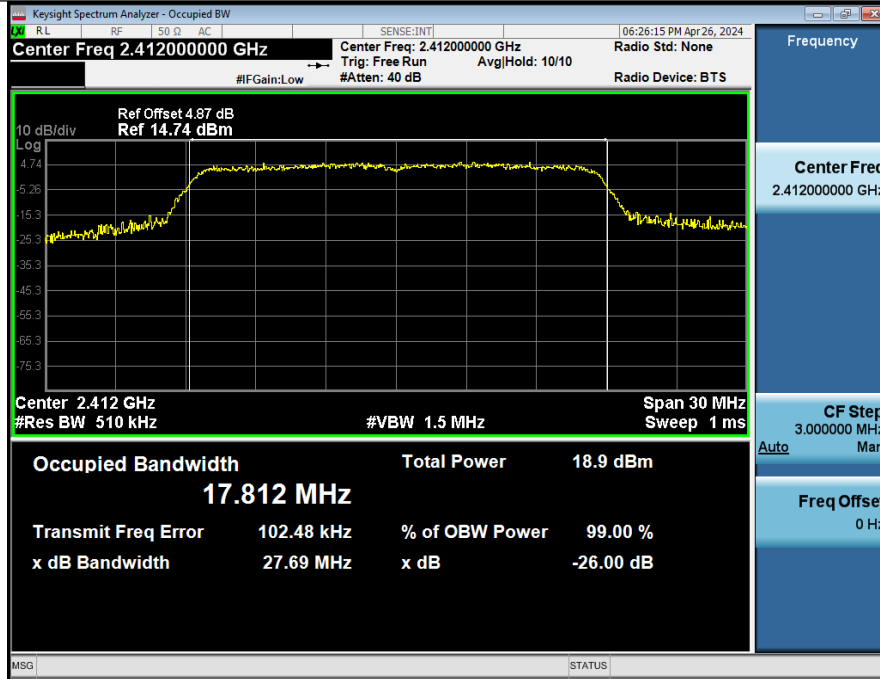


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412

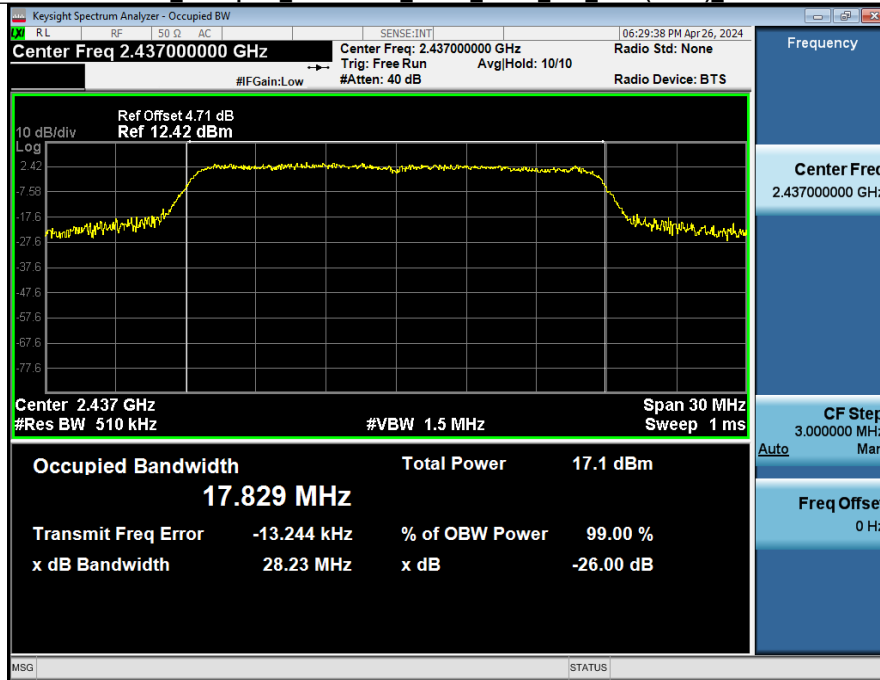




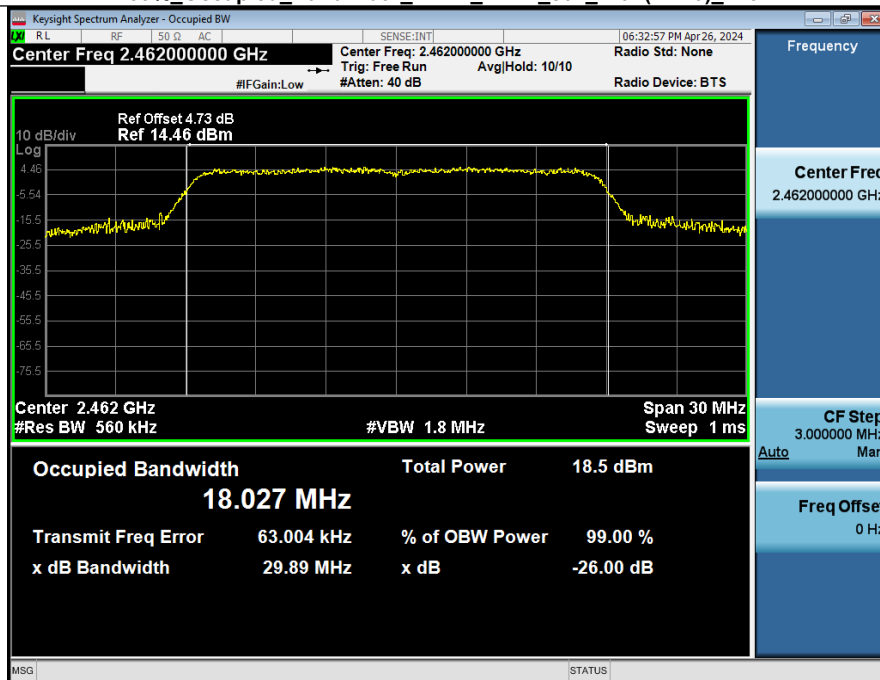
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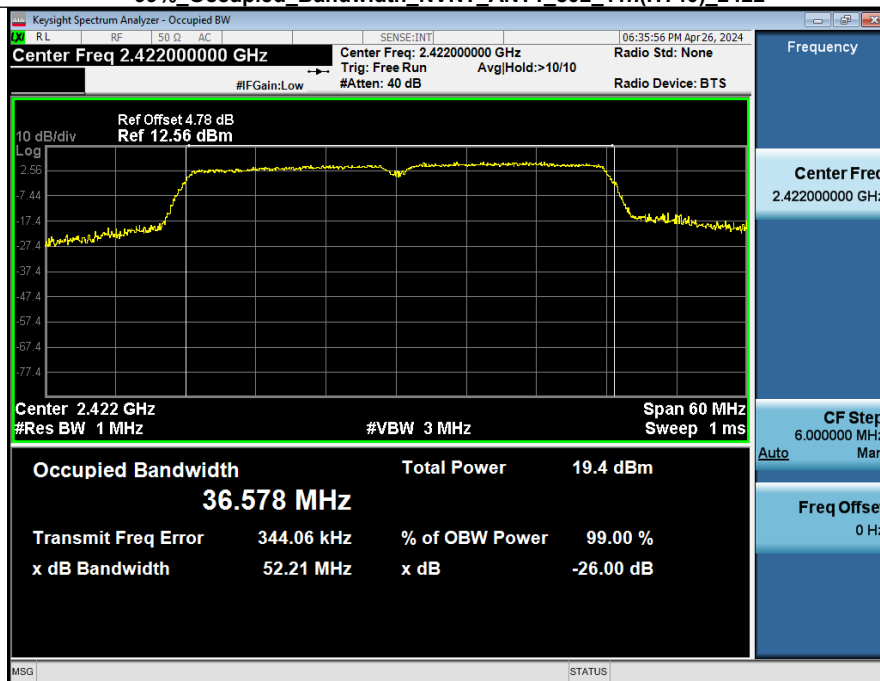
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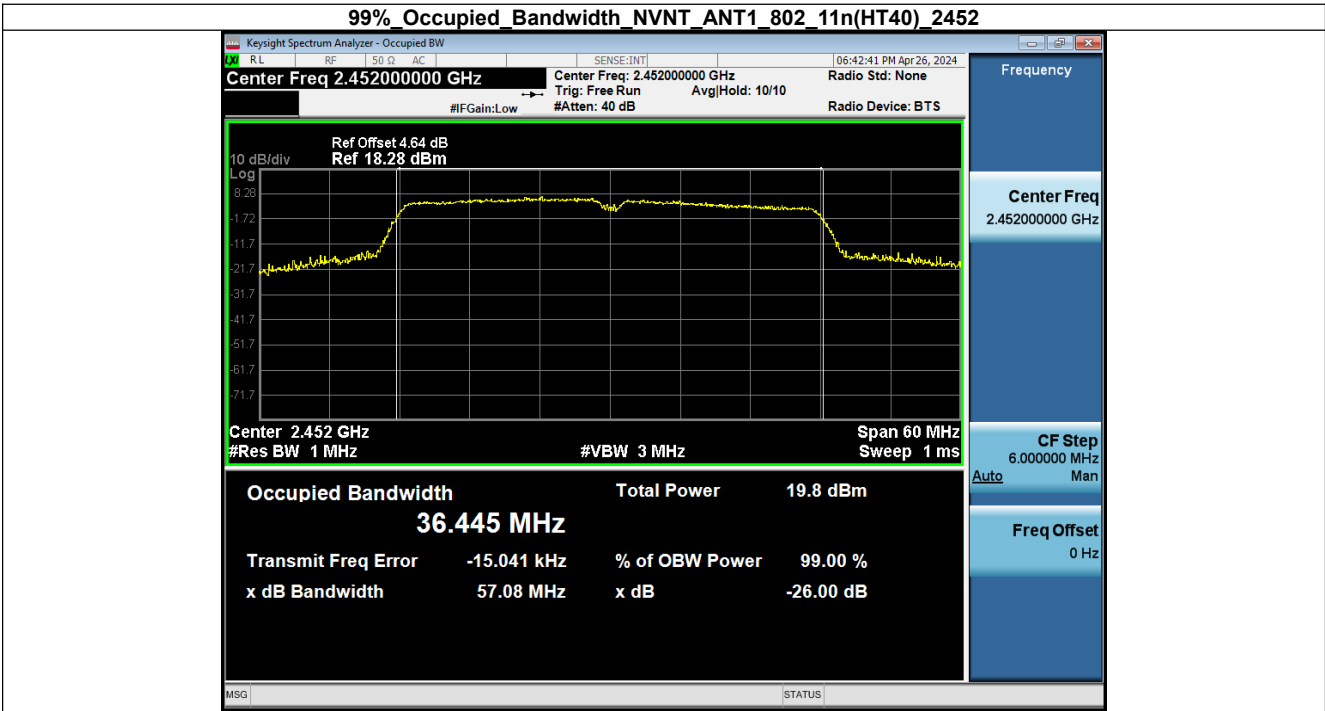
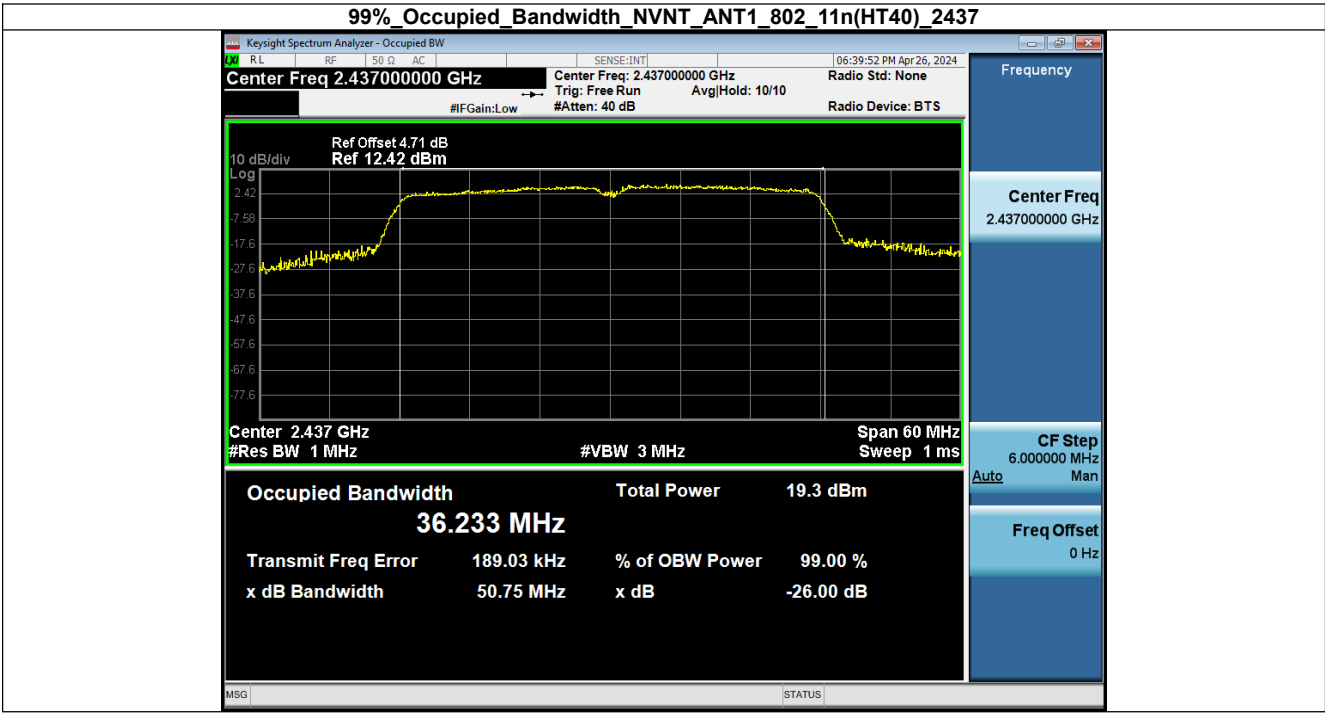


99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2462

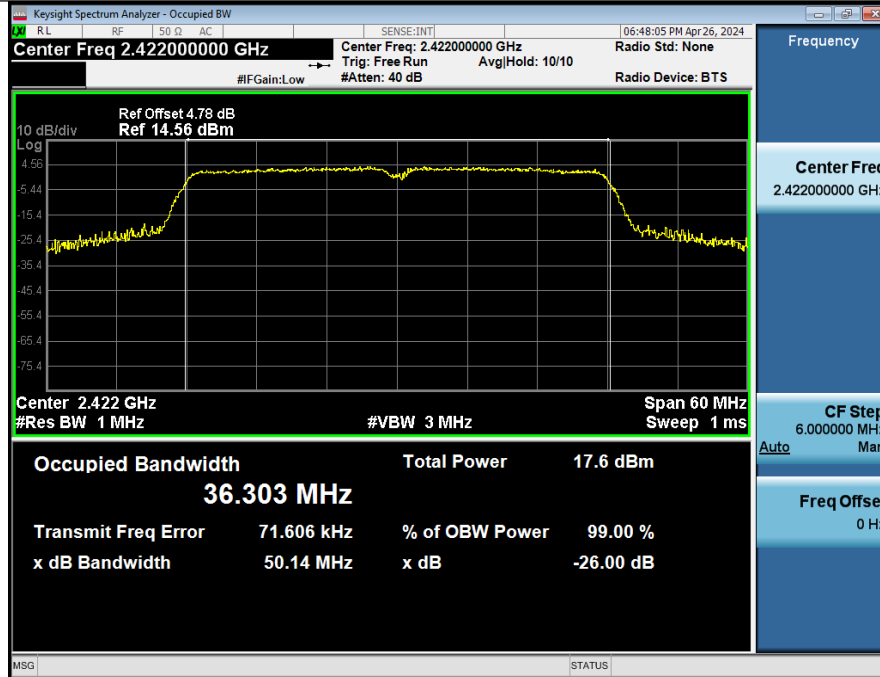


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422

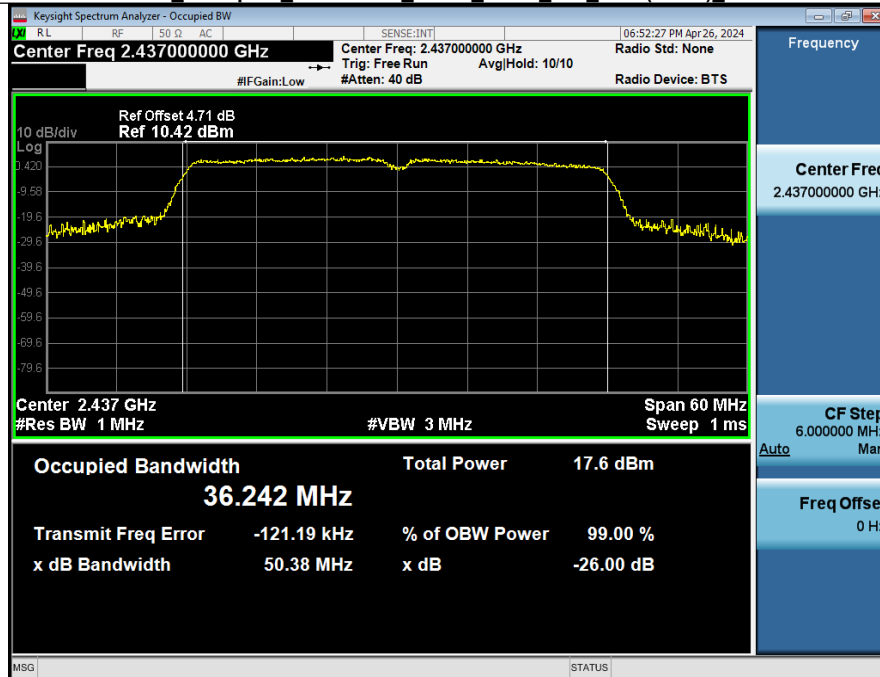




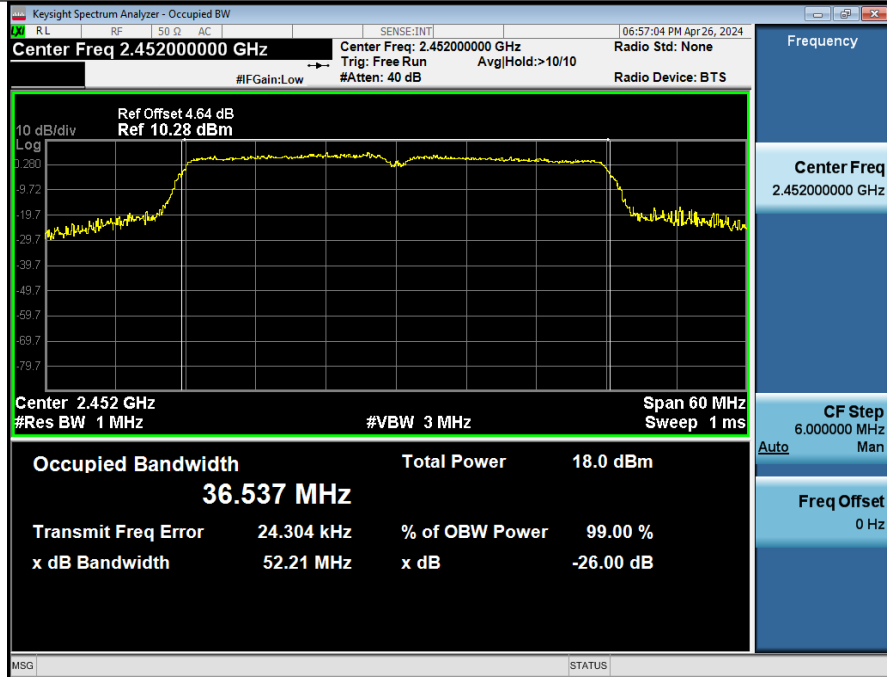
99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2422



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2437

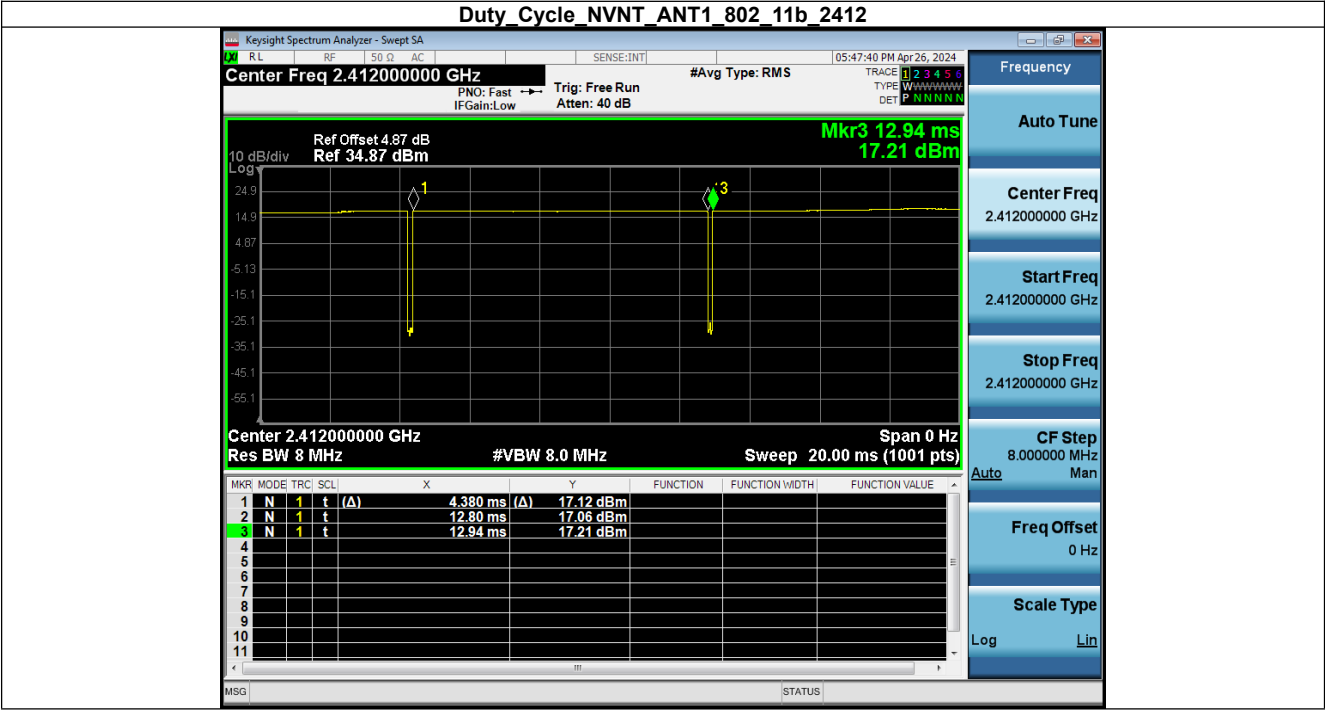


99% Occupied Bandwidth_NVNT_ANT1_802_11ax(HE40)_2452

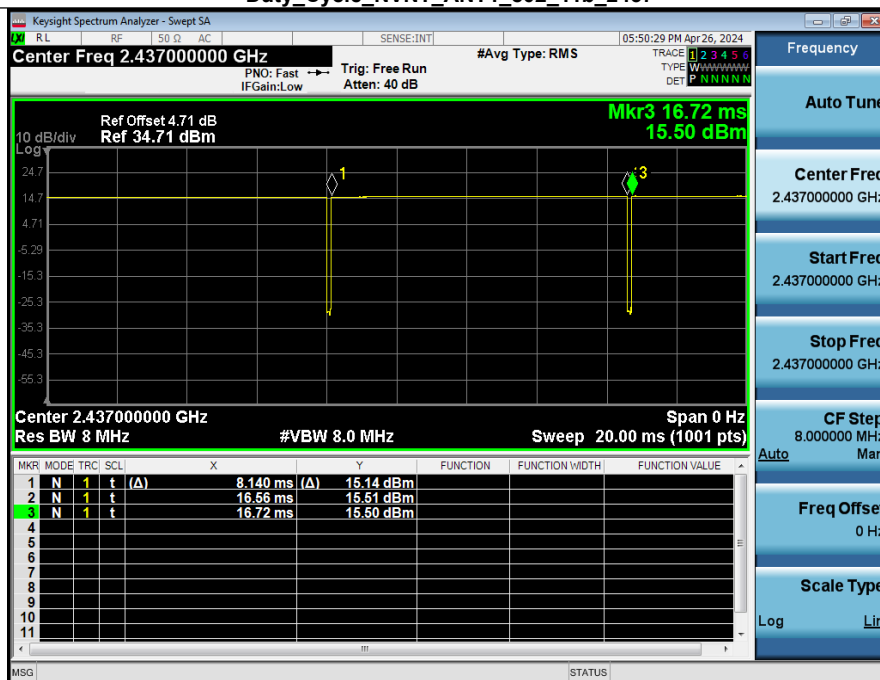


3. Duty Cycle

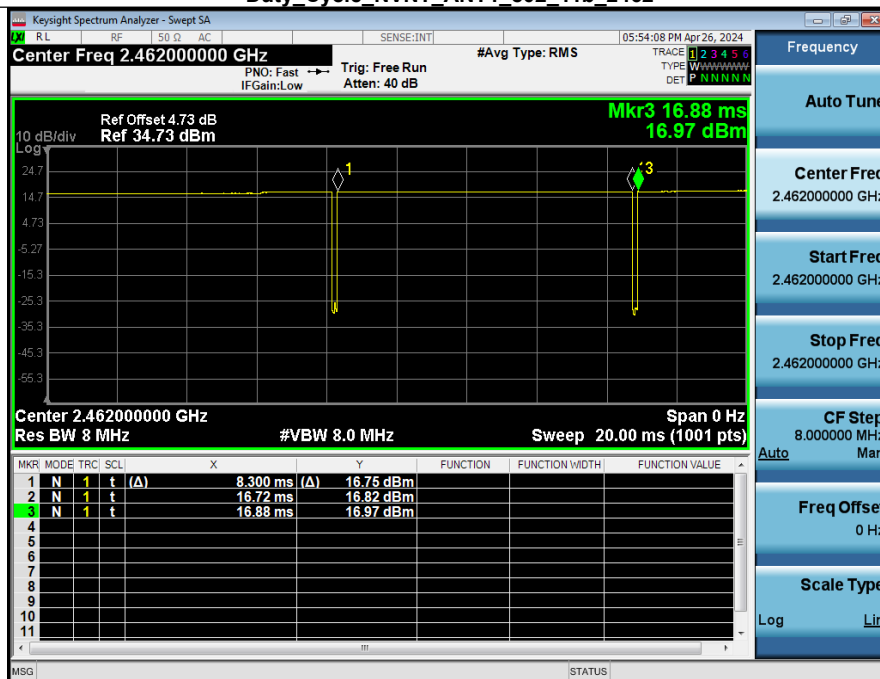
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.60	0.00
NVNT	ANT1	802.11b	2437.00	98.37	0.00
NVNT	ANT1	802.11b	2462.00	98.37	0.00
NVNT	ANT1	802.11g	2412.00	92.21	0.35
NVNT	ANT1	802.11g	2437.00	91.03	0.41
NVNT	ANT1	802.11g	2462.00	90.91	0.41
NVNT	ANT1	802.11n(HT20)	2412.00	88.06	0.55
NVNT	ANT1	802.11n(HT20)	2437.00	90.91	0.41
NVNT	ANT1	802.11n(HT20)	2462.00	89.39	0.49
NVNT	ANT1	802.11ax(HE20)	2412.00	89.55	0.48
NVNT	ANT1	802.11ax(HE20)	2437.00	89.55	0.48
NVNT	ANT1	802.11ax(HE20)	2462.00	89.39	0.49
NVNT	ANT1	802.11n(HT40)	2422.00	81.08	0.91
NVNT	ANT1	802.11n(HT40)	2437.00	81.08	0.91
NVNT	ANT1	802.11n(HT40)	2452.00	81.08	0.91
NVNT	ANT1	802.11ax(HE40)	2422.00	81.08	0.91
NVNT	ANT1	802.11ax(HE40)	2437.00	83.78	0.77
NVNT	ANT1	802.11ax(HE40)	2452.00	81.08	0.91



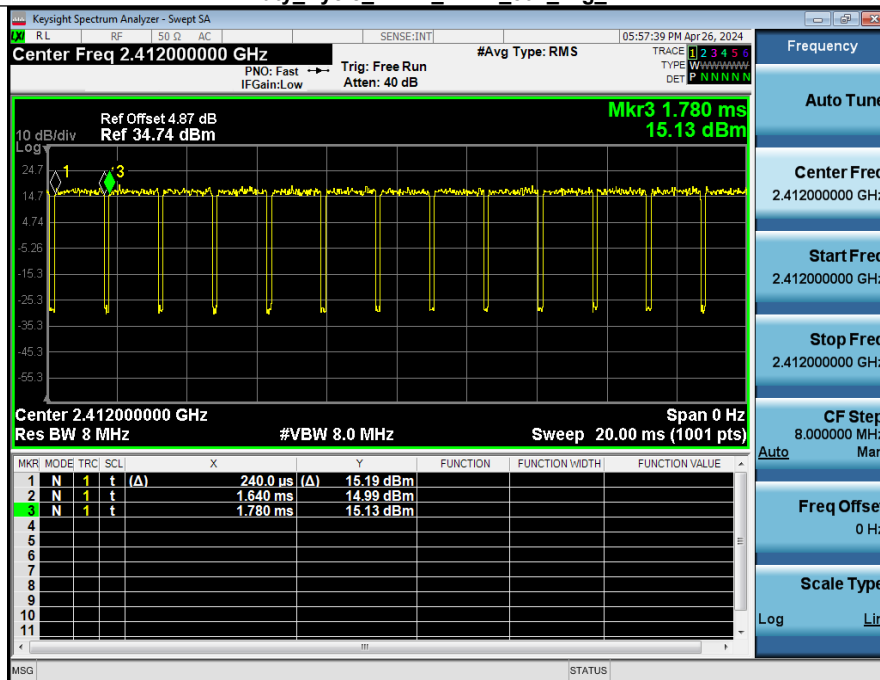
Duty Cycle NVNT_ANT1_802_11b_2437



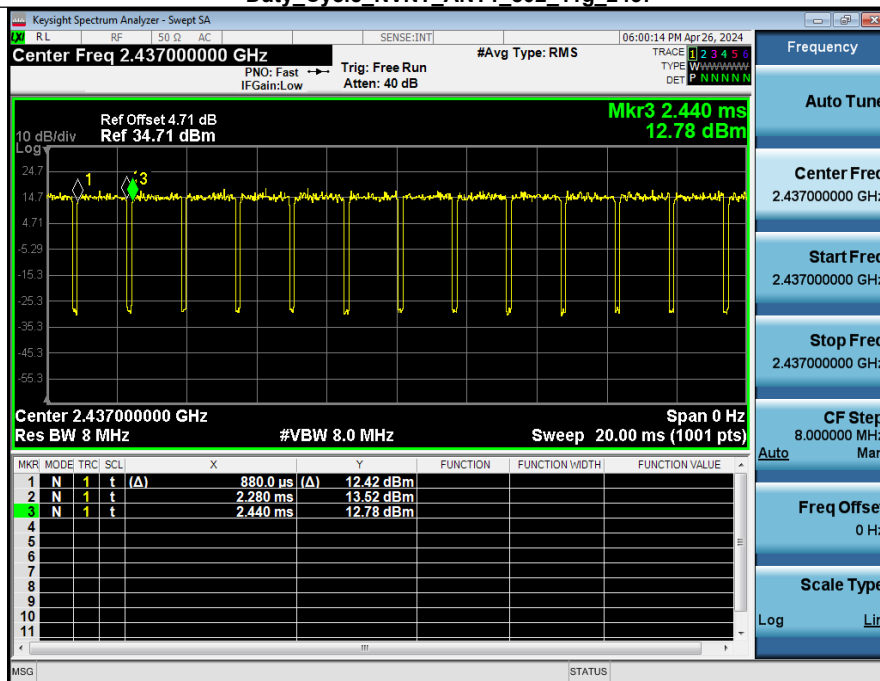
Duty Cycle NVNT_ANT1_802_11b_2462



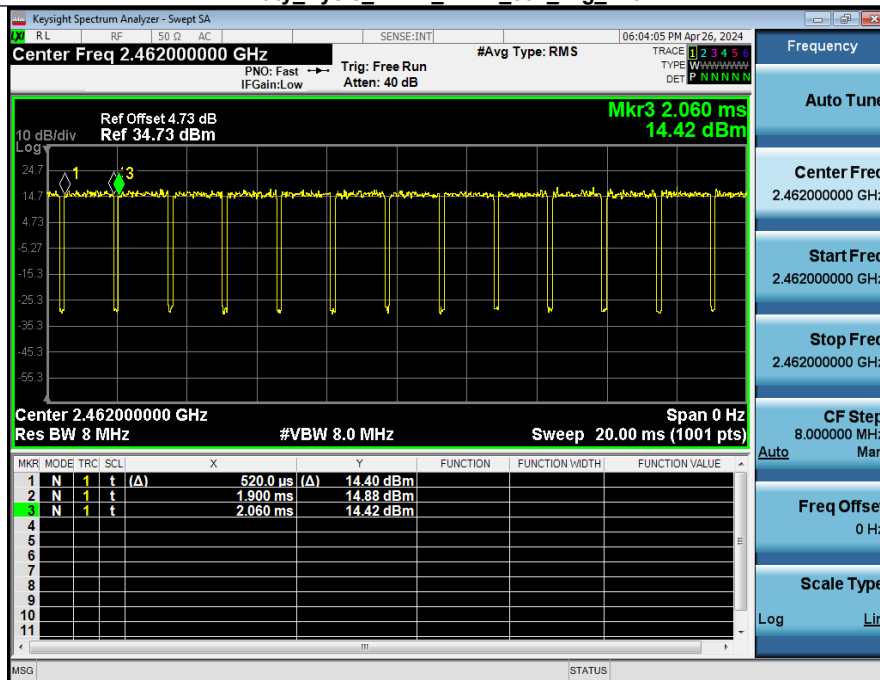
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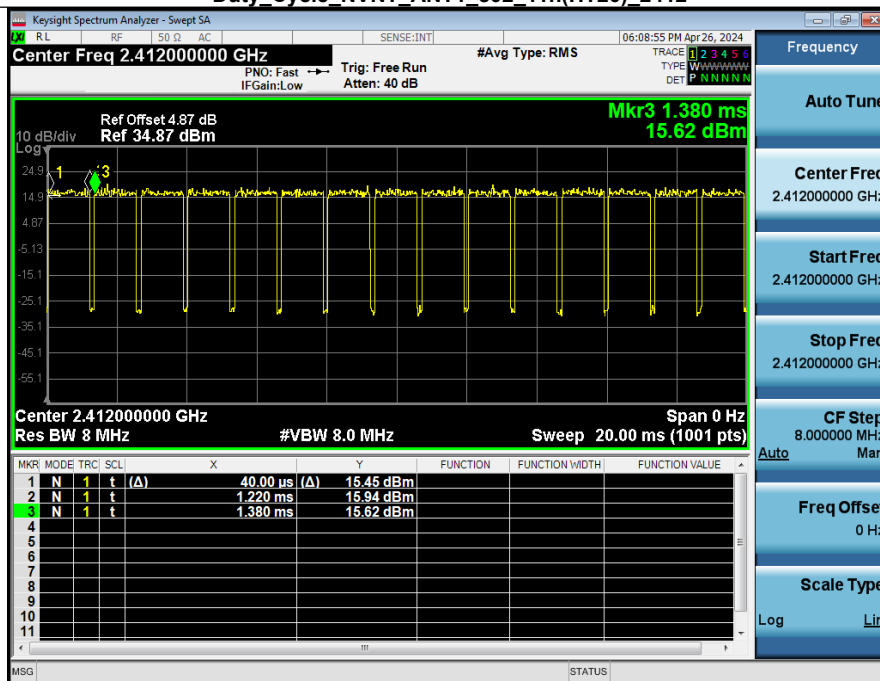
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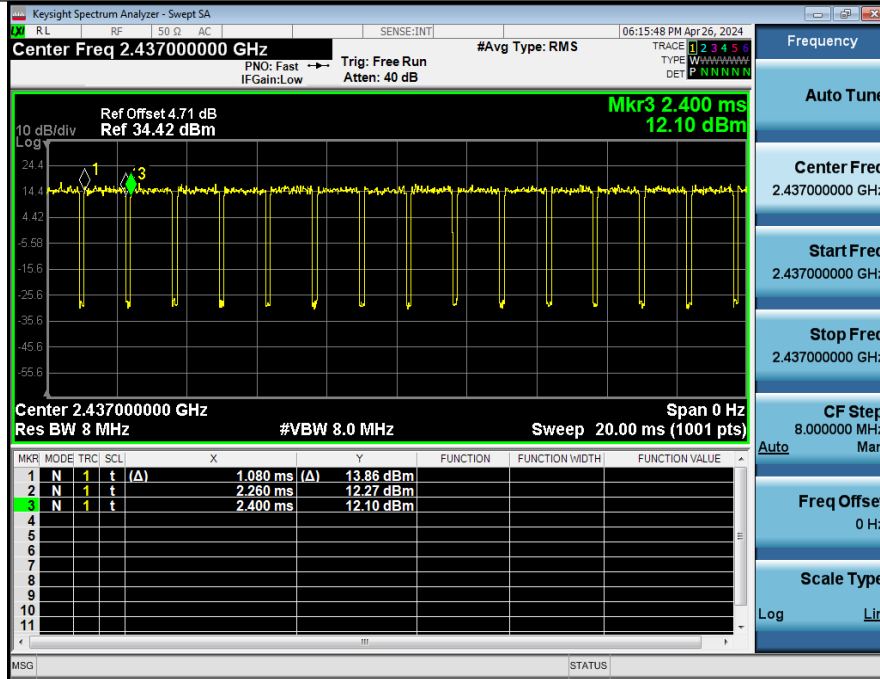
Duty Cycle NVNT_ANT1_802_11g_2462



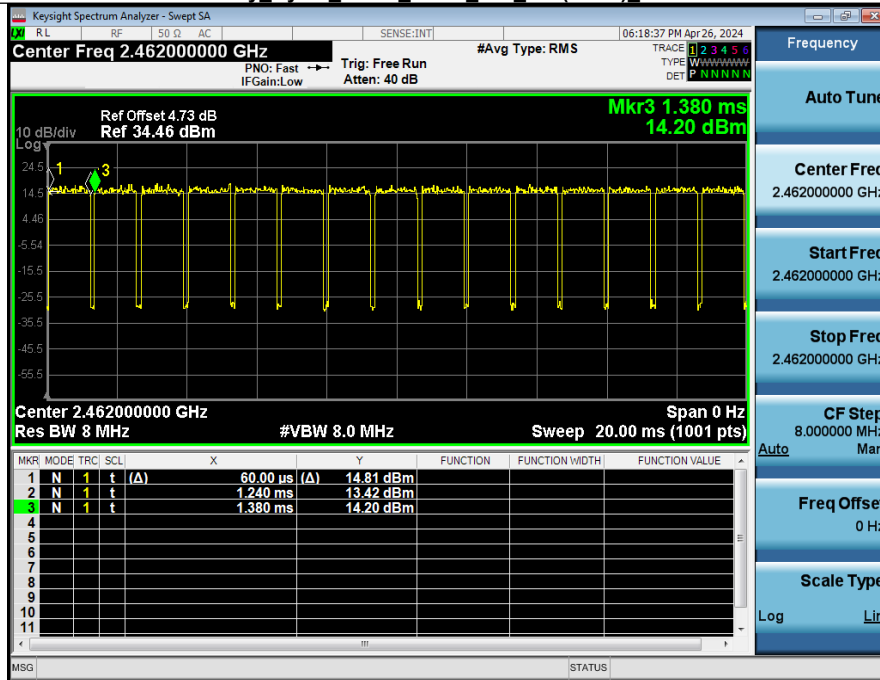
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



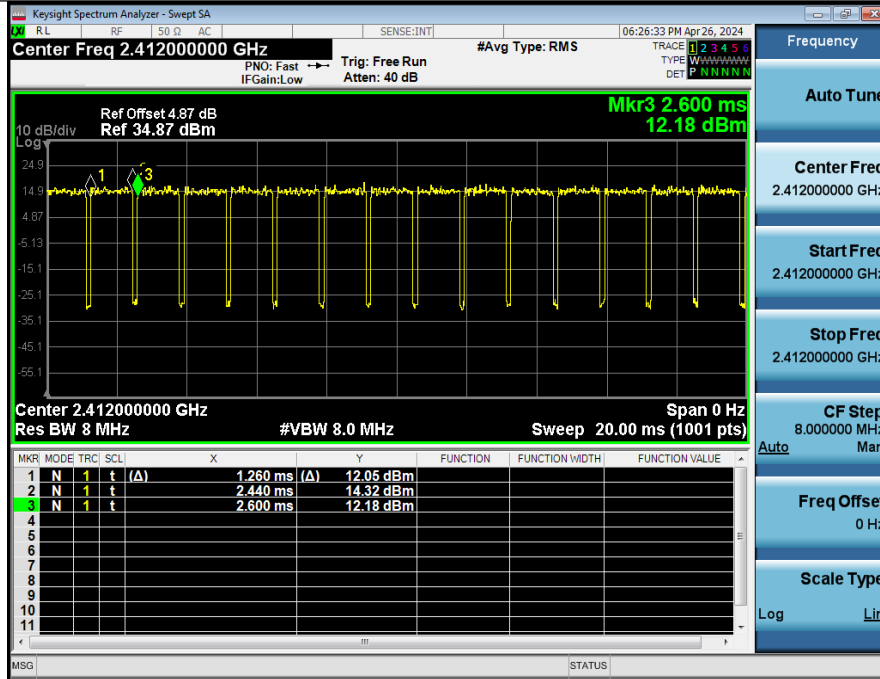
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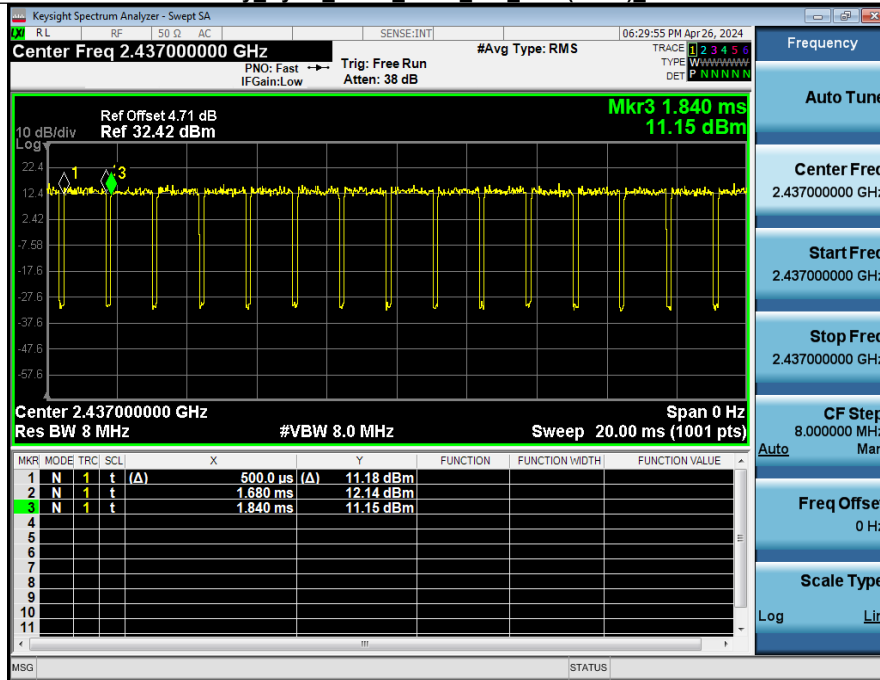
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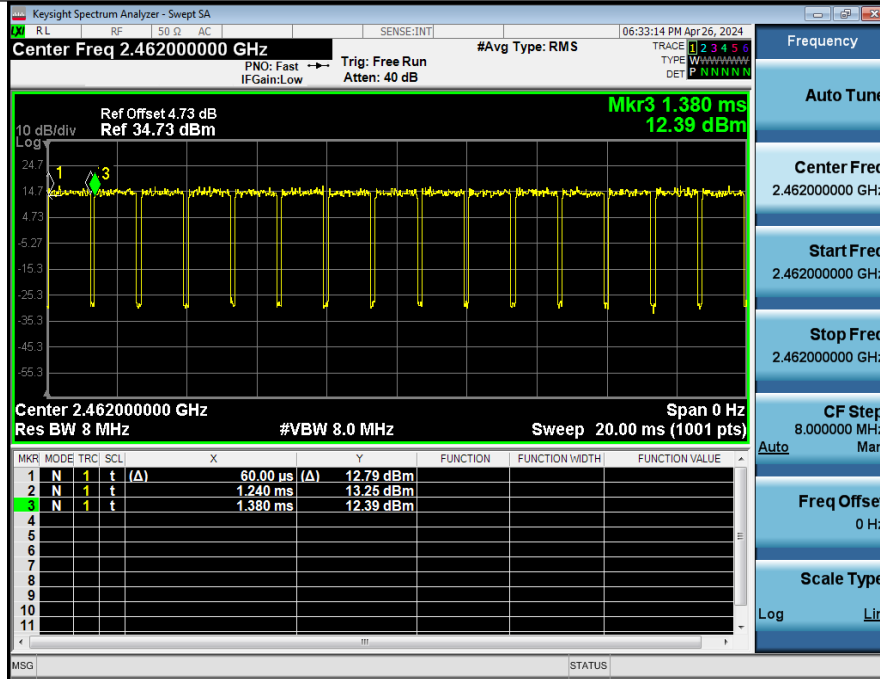
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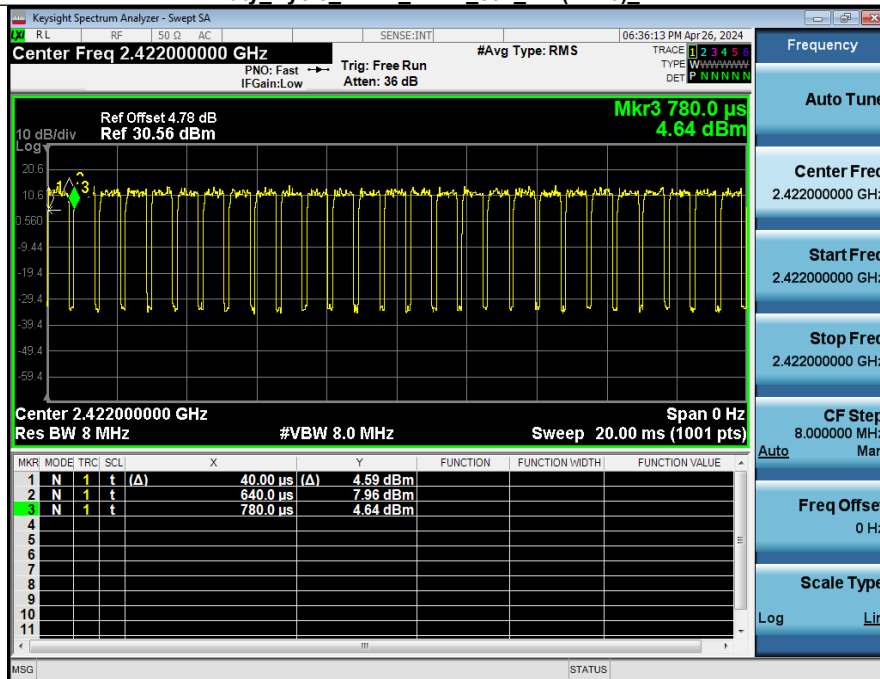
Duty Cycle NVNT_ANT1_802_11ax(HE20)_2437



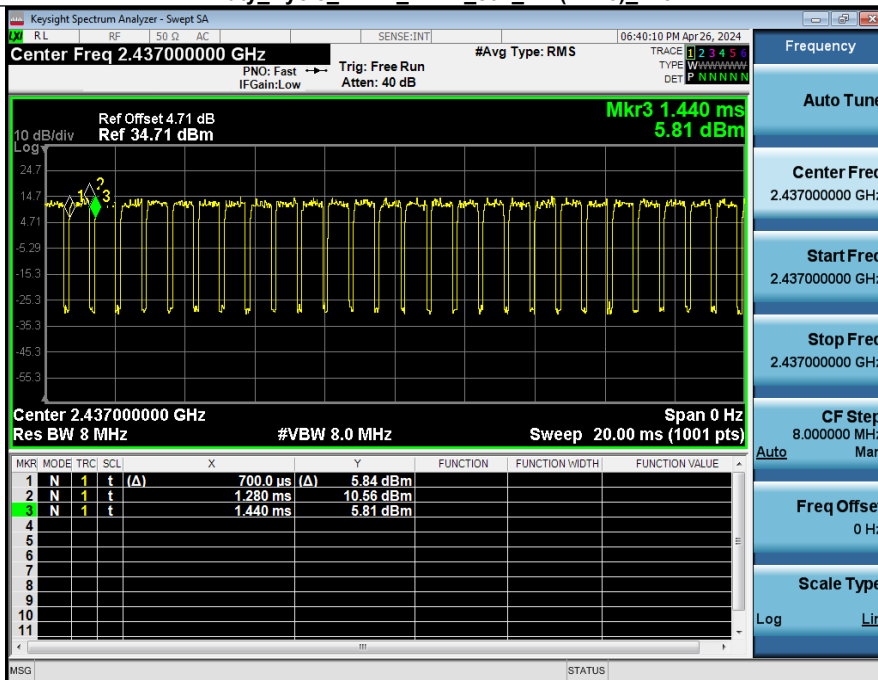
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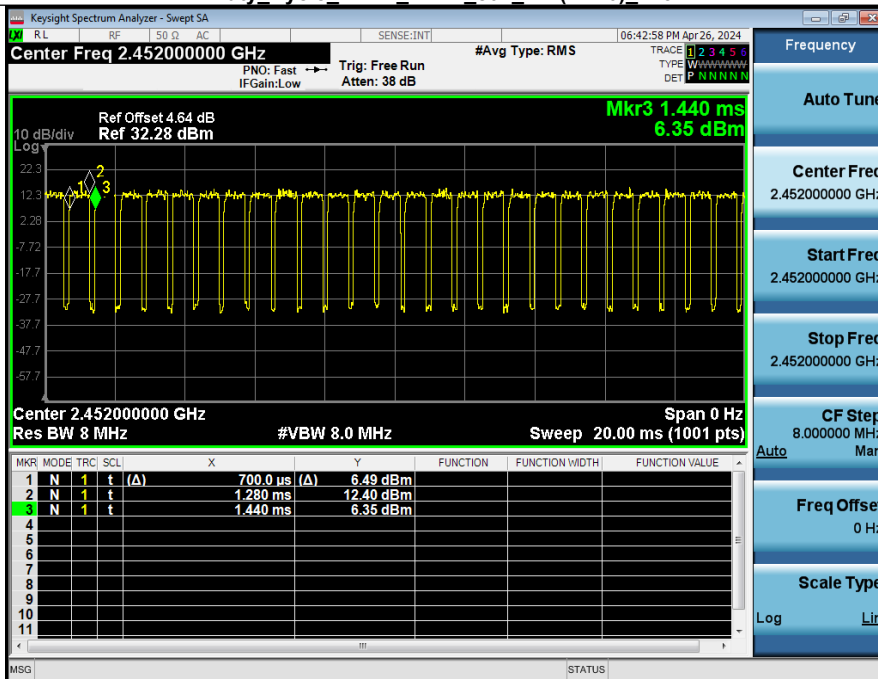
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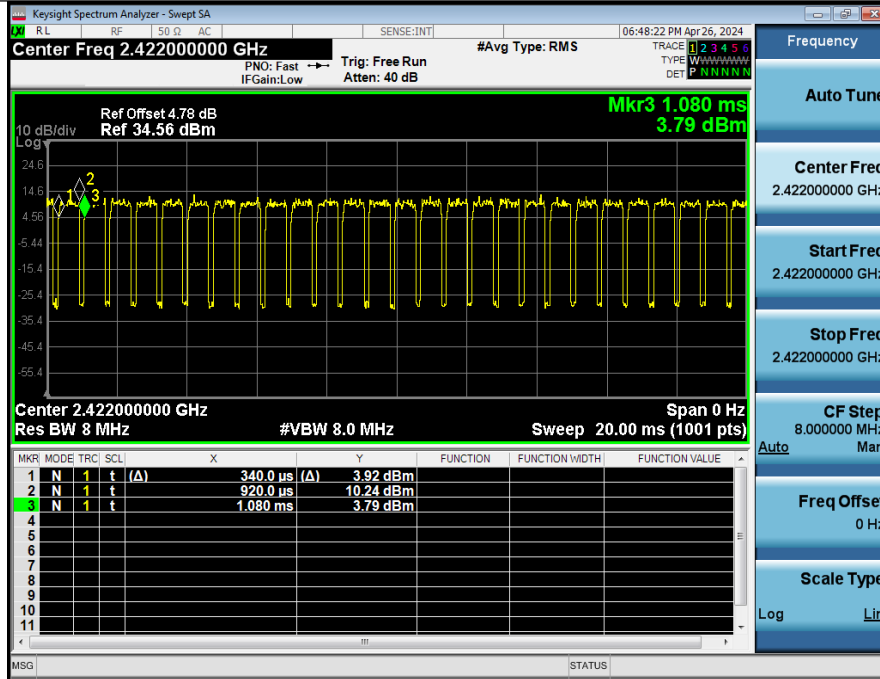
Duty Cycle NVNT_ANT1_802_11n(HT40)_2437



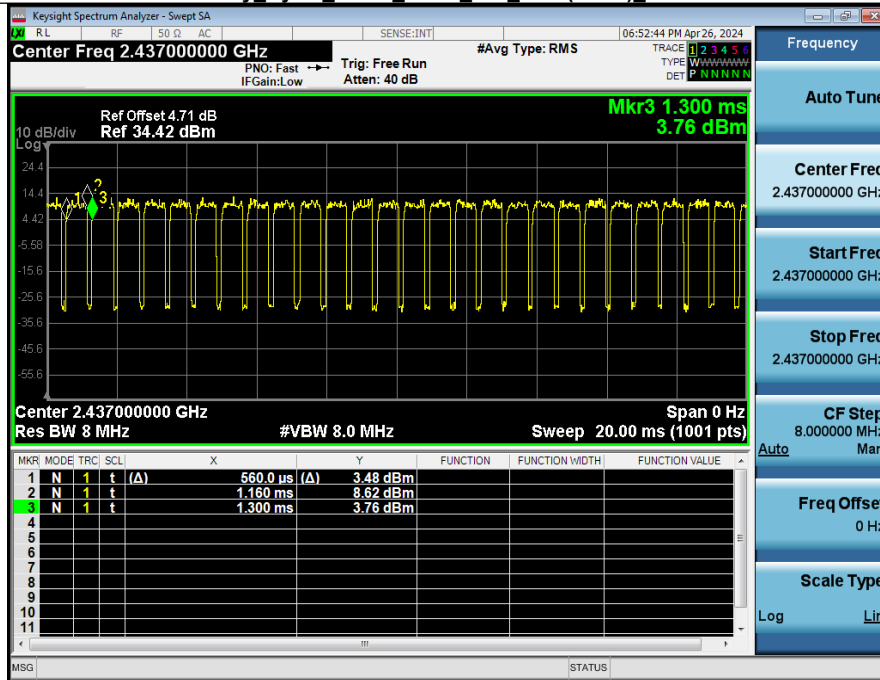
Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



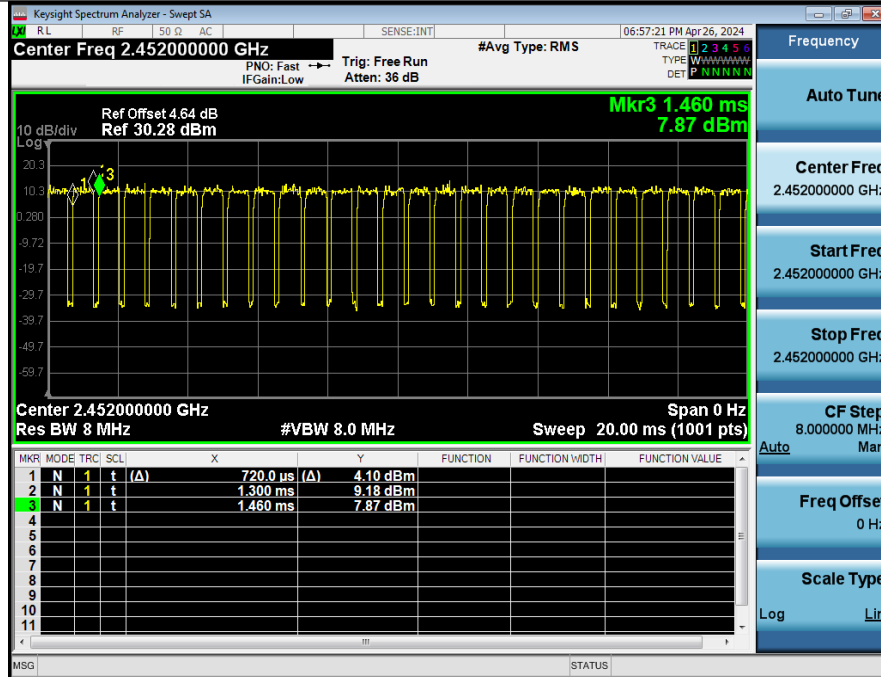
Duty Cycle NVNT_ANT1_802_11ax(HE40)_2422



Duty Cycle NVNT_ANT1_802_11ax(HE40)_2437

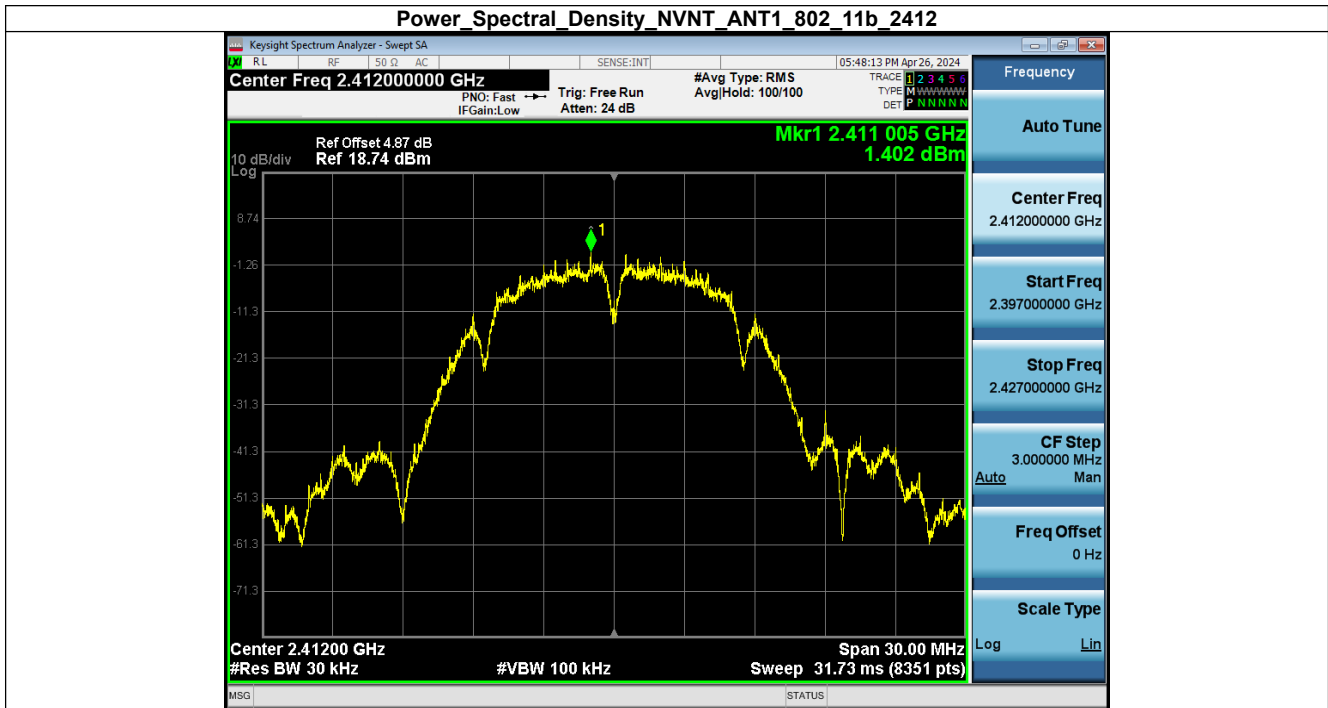


Duty Cycle NVNT_ANT1_802_11ax(HE40)_2452



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	1.40	-10.00	-8.60	8	Pass
NVNT	ANT1	802.11b	2437.00	-1.18	-10.00	-11.18	8	Pass
NVNT	ANT1	802.11b	2462.00	0.17	-10.00	-9.83	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.97	-10.00	-11.97	8	Pass
NVNT	ANT1	802.11g	2437.00	-4.11	-10.00	-14.11	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.23	-10.00	-13.23	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-2.66	-10.00	-12.66	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-4.91	-10.00	-14.91	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.38	-10.00	-13.38	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.93	-10.00	-14.93	8	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	-7.20	-10.00	-17.20	8	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	-5.55	-10.00	-15.55	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.32	-10.00	-17.32	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-7.69	-10.00	-17.69	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-6.91	-10.00	-16.91	8	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	-9.86	-10.00	-19.86	8	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	-9.53	-10.00	-19.52	8	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	-9.20	-10.00	-19.20	8	Pass



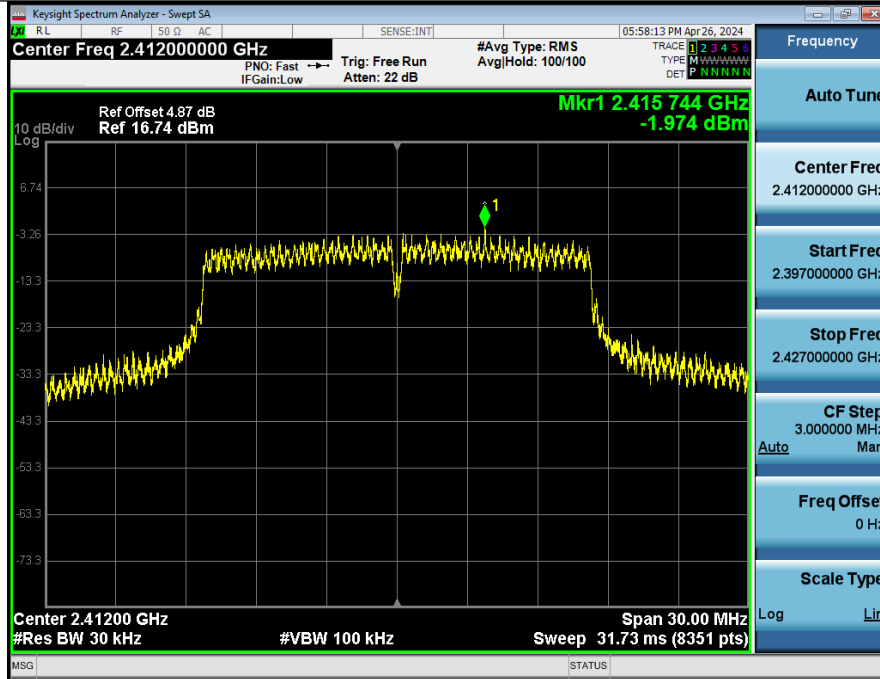
Power Spectral Density_NVNT_ANT1_802_11b_2437



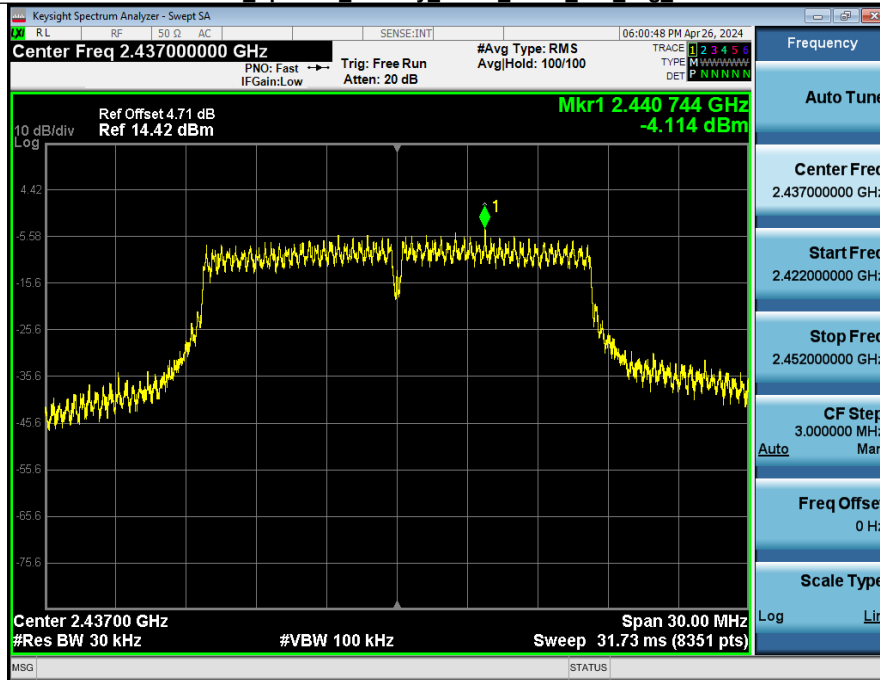
Power Spectral Density_NVNT_ANT1_802_11b_2462



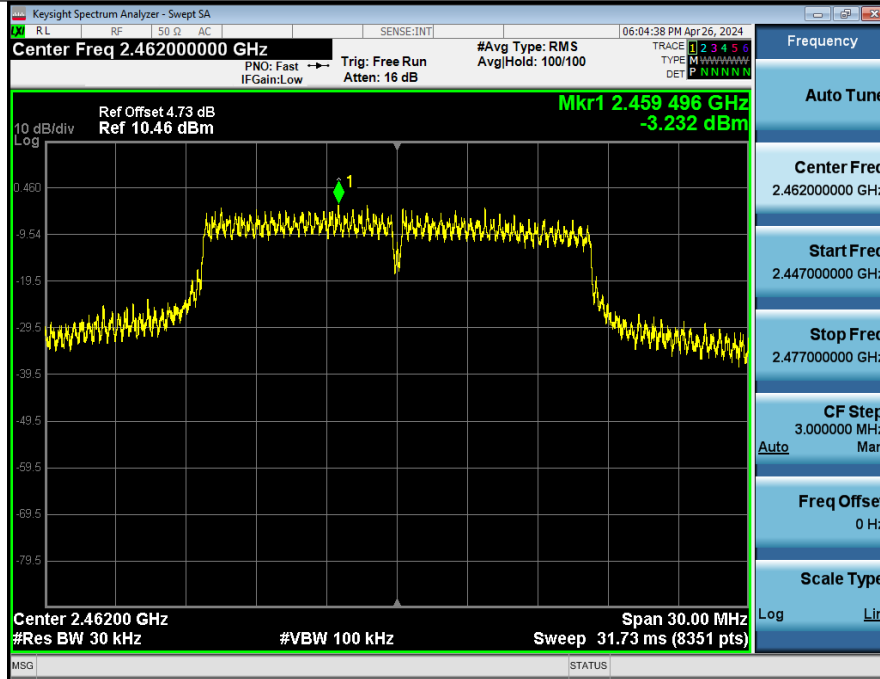
Power Spectral Density_NVNT_ANT1_802_11g_2412



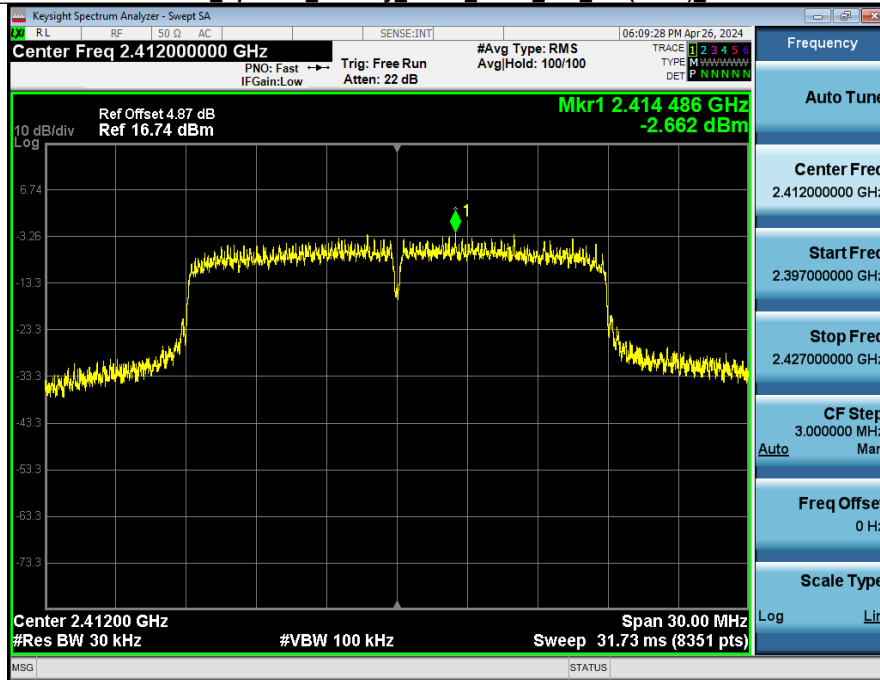
Power Spectral Density_NVNT_ANT1_802_11g_2437



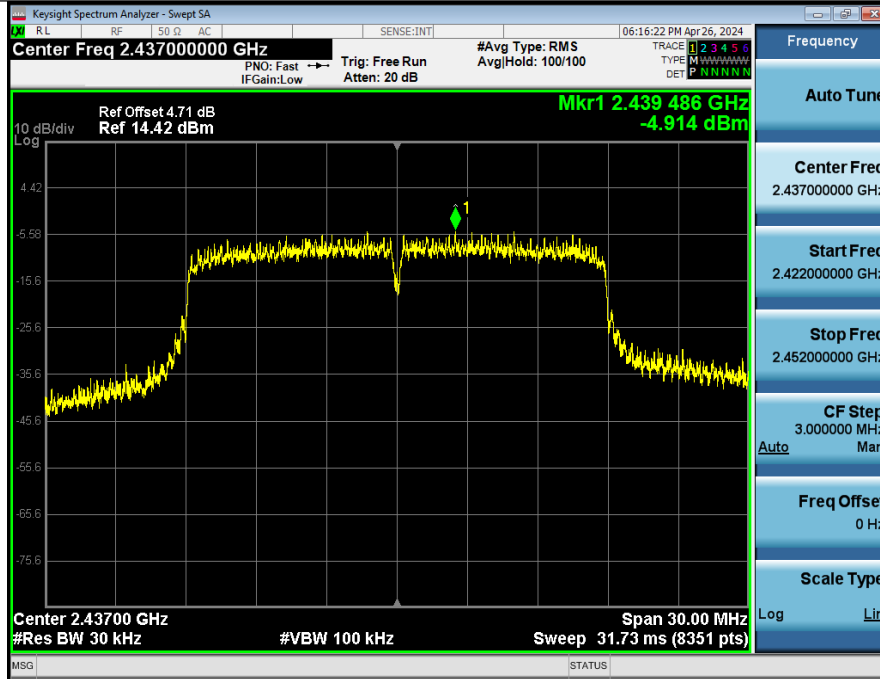
Power Spectral Density_NVNT_ANT1_802_11g_2462



Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



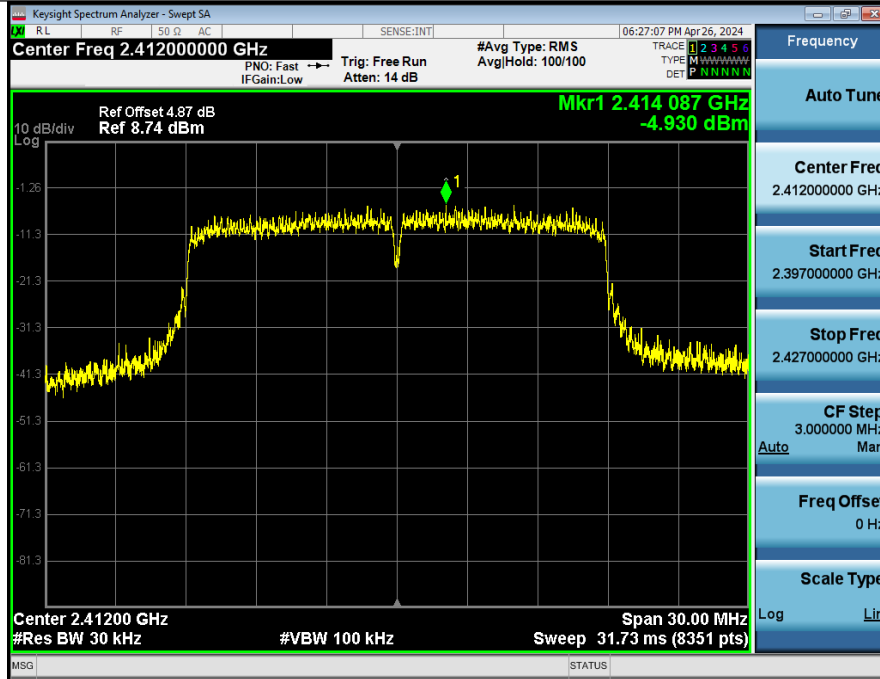
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437



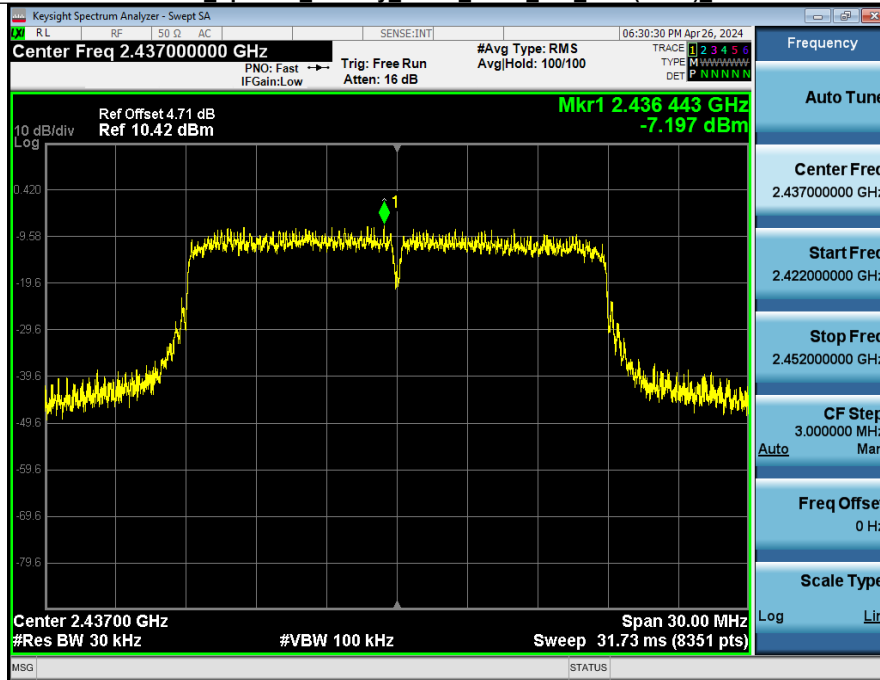
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2462



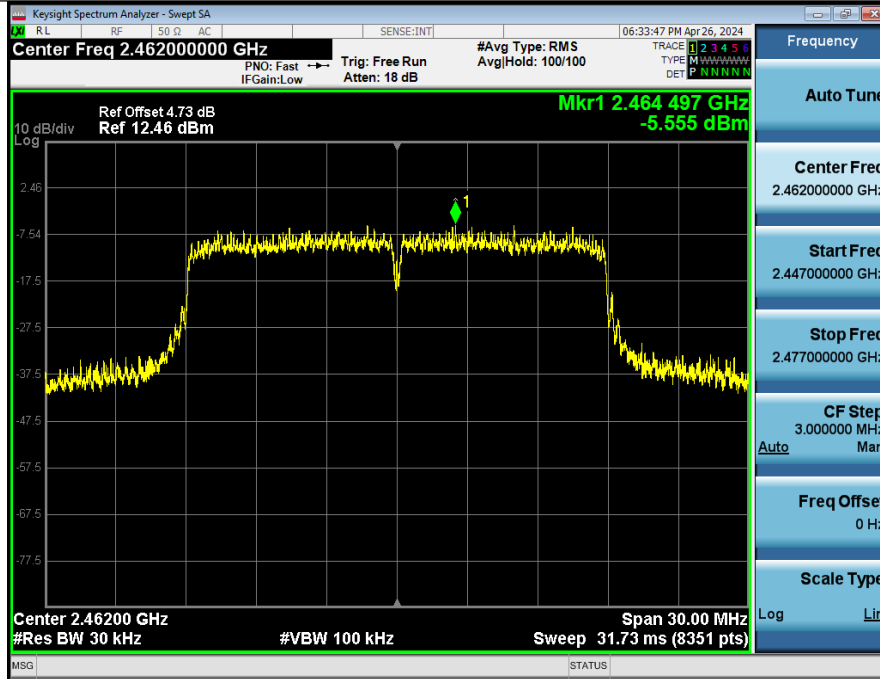
Power Spectral Density_NVNT_ANT1_802_11ax(HE20)_2412



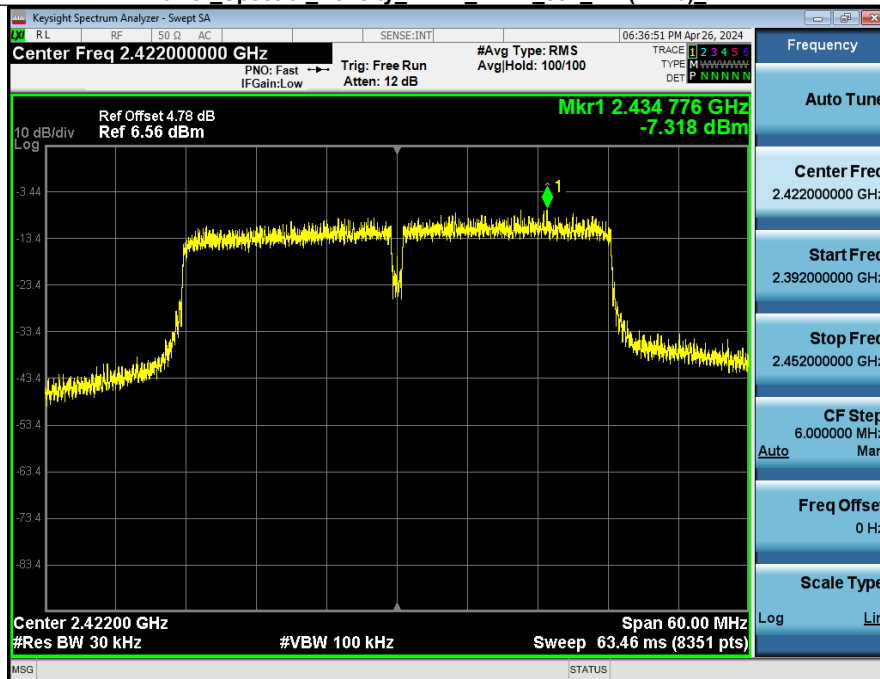
Power Spectral Density_NVNT_ANT1_802_11ax(HE20)_2437



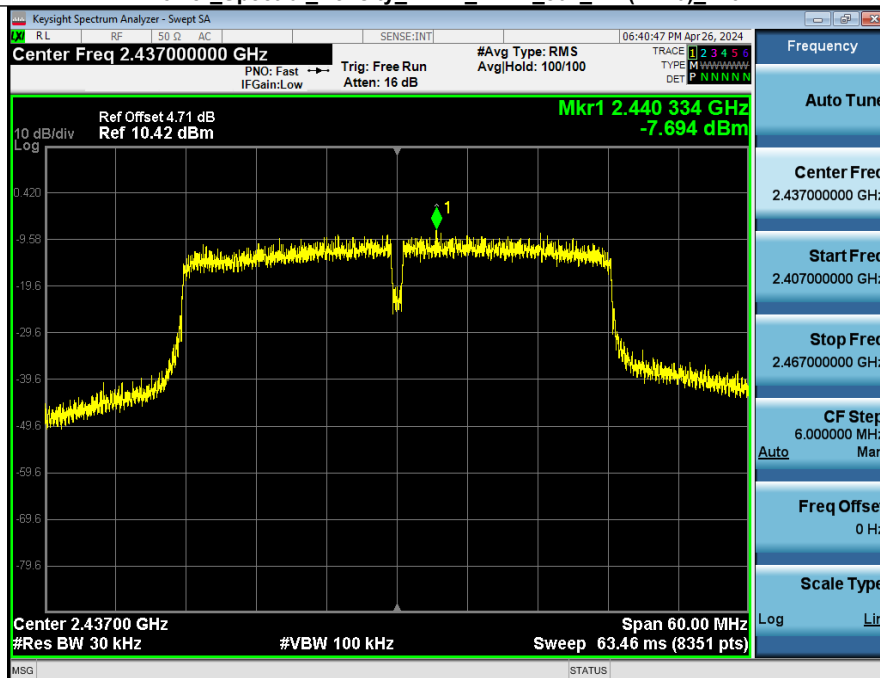
Power Spectral Density_NVNT_ANT1_802_11ax(HE20)_2462



Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2422



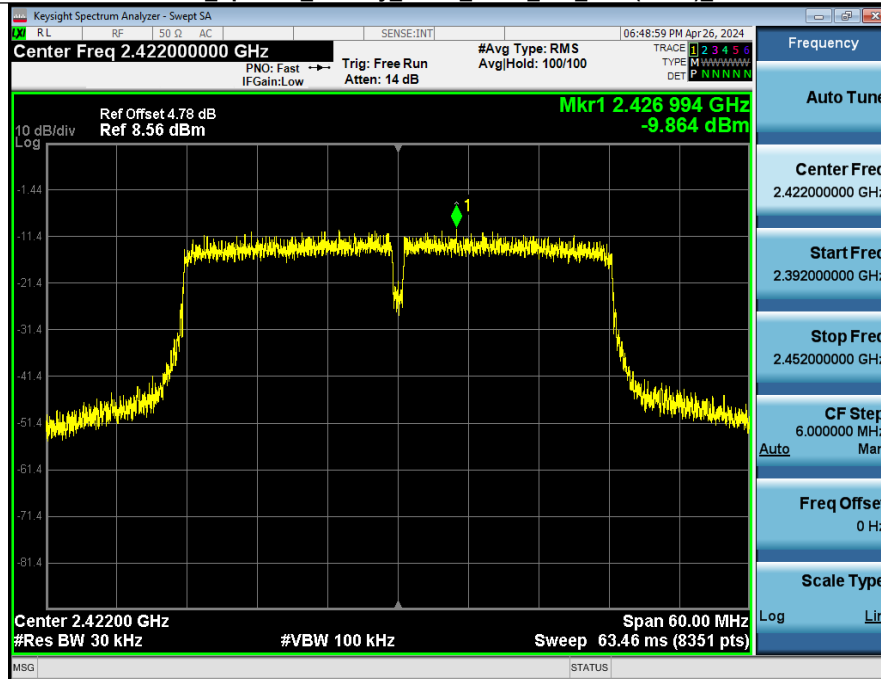
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437



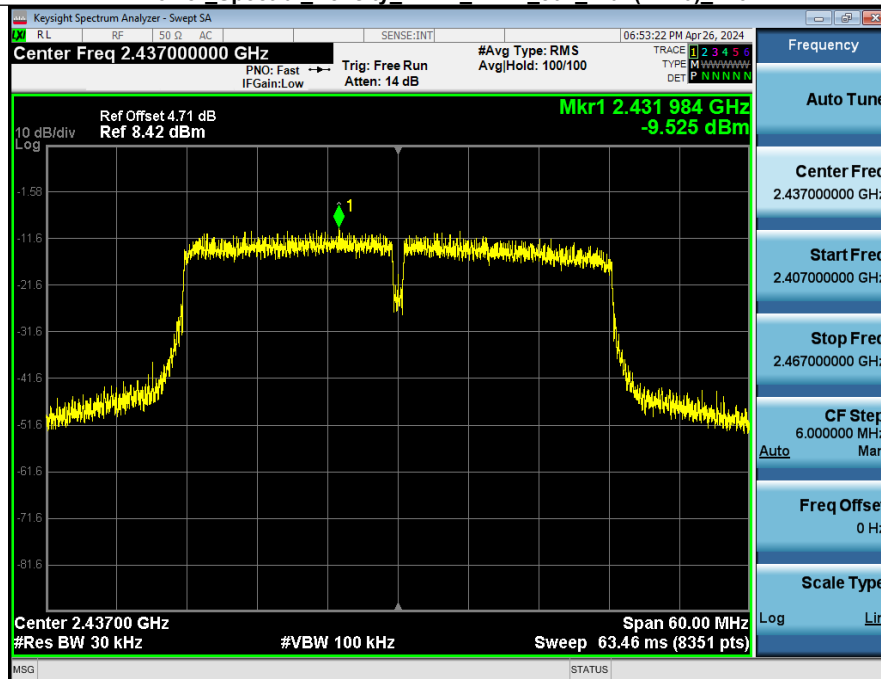
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2452



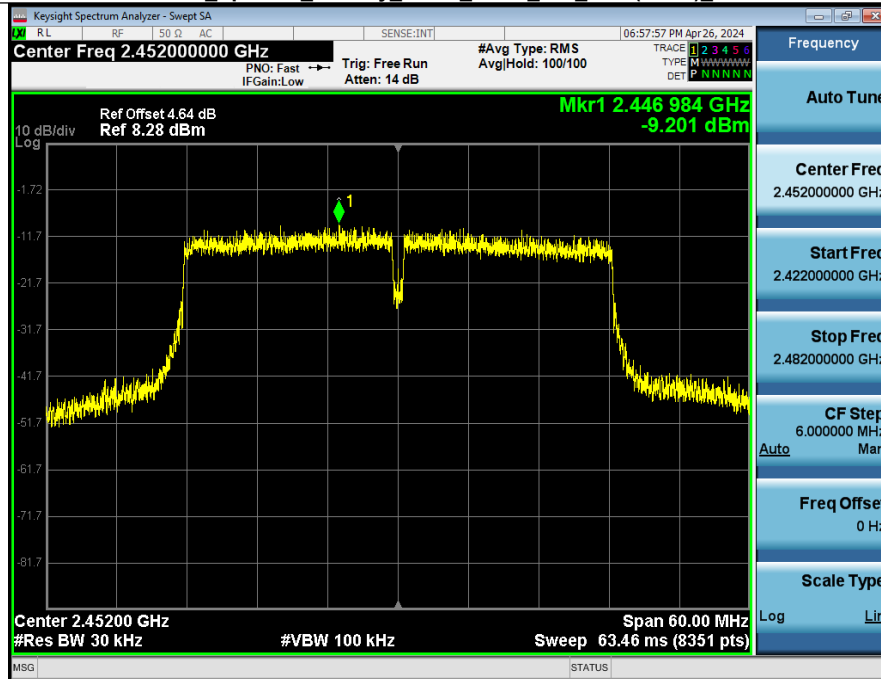
Power Spectral Density NVNT_ANT1_802_11ax(HE40)_2422



Power Spectral Density NVNT_ANT1_802_11ax(HE40)_2437

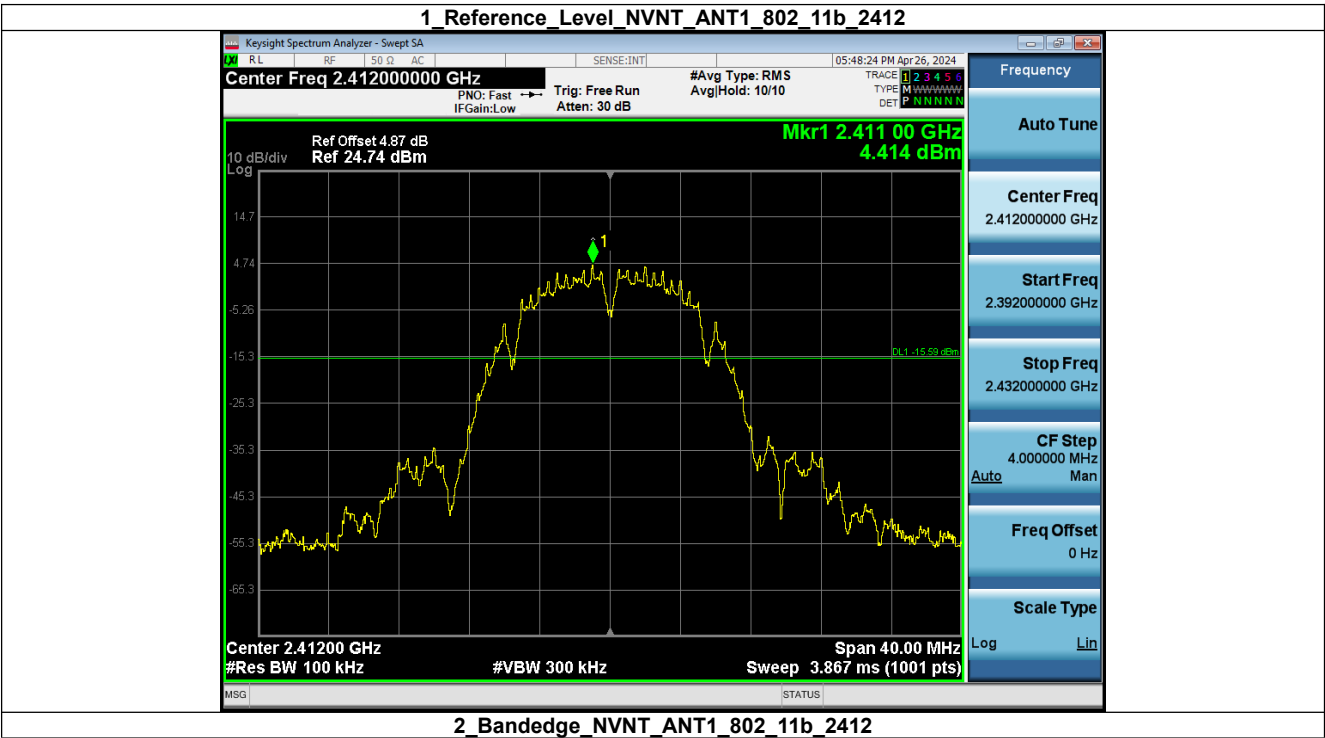


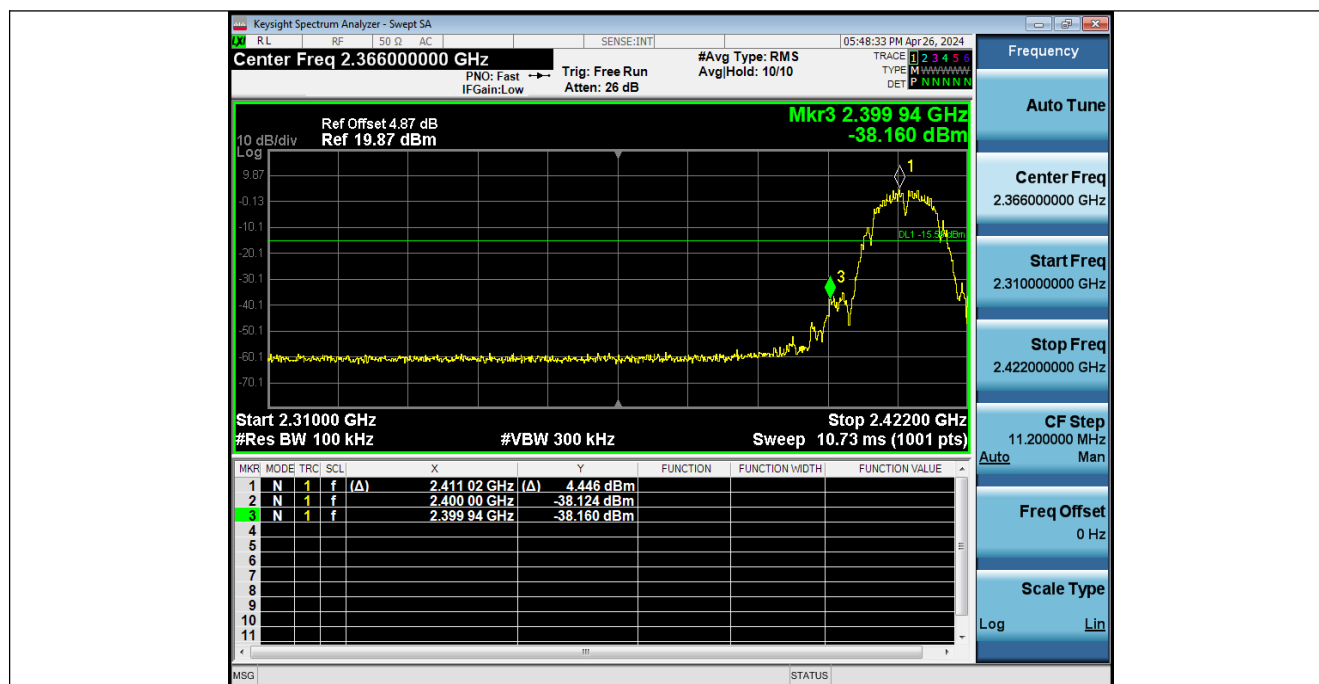
Power Spectral Density NVNT_ANT1_802_11ax(HE40)_2452



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	-38.160	-15.586	Pass
NVNT	ANT1	802.11b	2462.00	2485.984	-56.711	-16.048	Pass
NVNT	ANT1	802.11g	2412.00	2399.152	-26.903	-18.898	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-39.103	-18.439	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-24.783	-18.184	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.256	-36.642	-18.610	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	2399.152	-32.085	-20.321	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	2483.920	-39.747	-21.198	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-34.871	-22.479	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.952	-32.160	-21.878	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	2399.760	-36.001	-25.349	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	2485.448	-39.536	-24.369	Pass





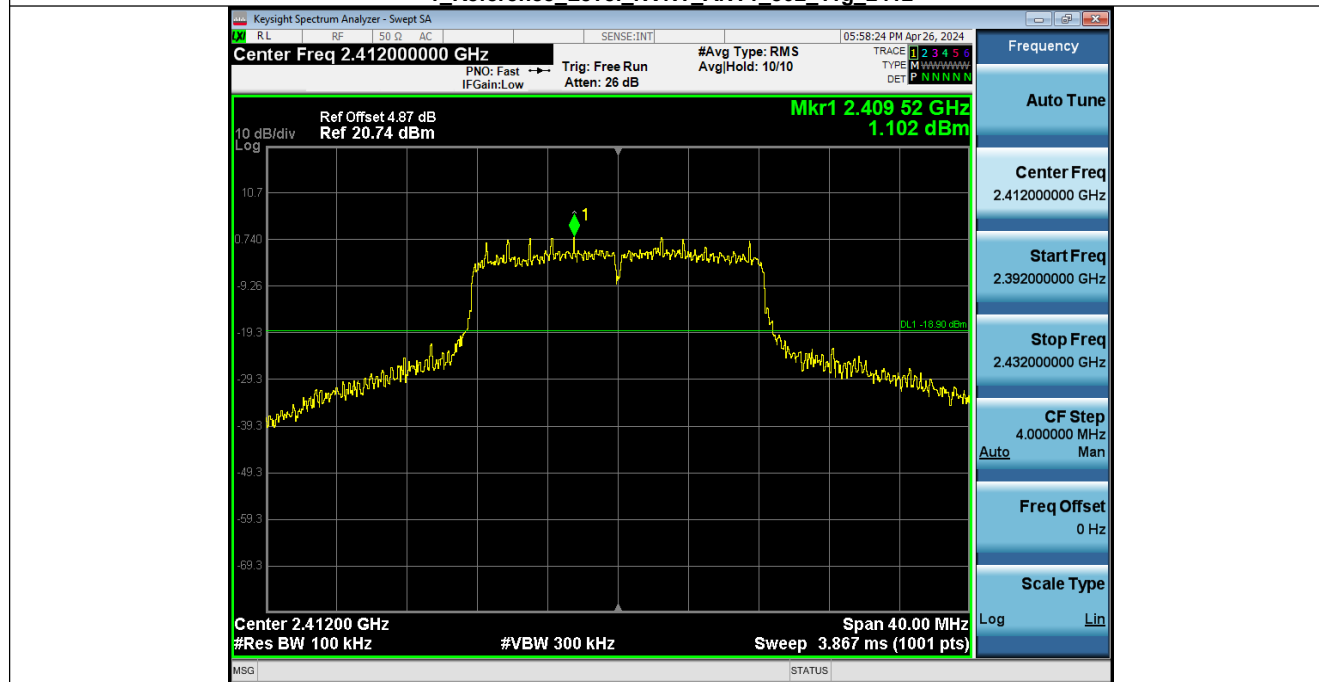
1 Reference Level NVNT_ANT1_802_11b_2462



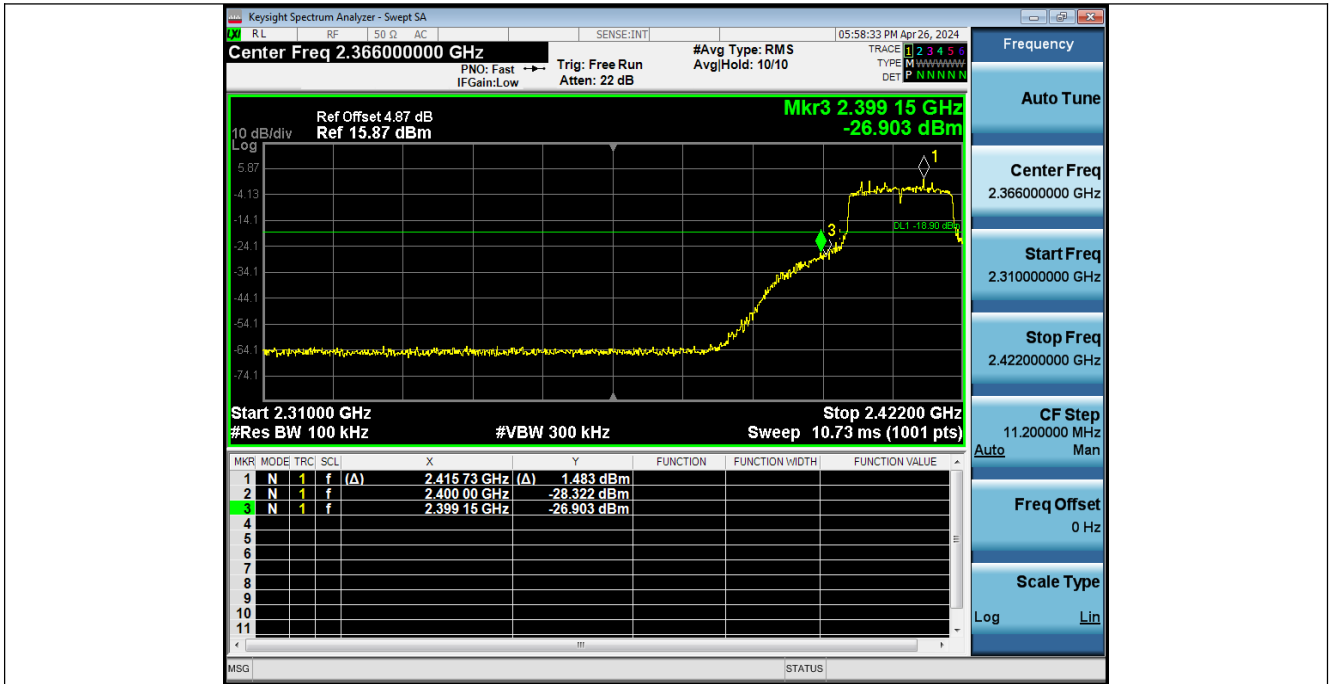
2_Bandedge_NVNT_ANT1_802_11b_2462



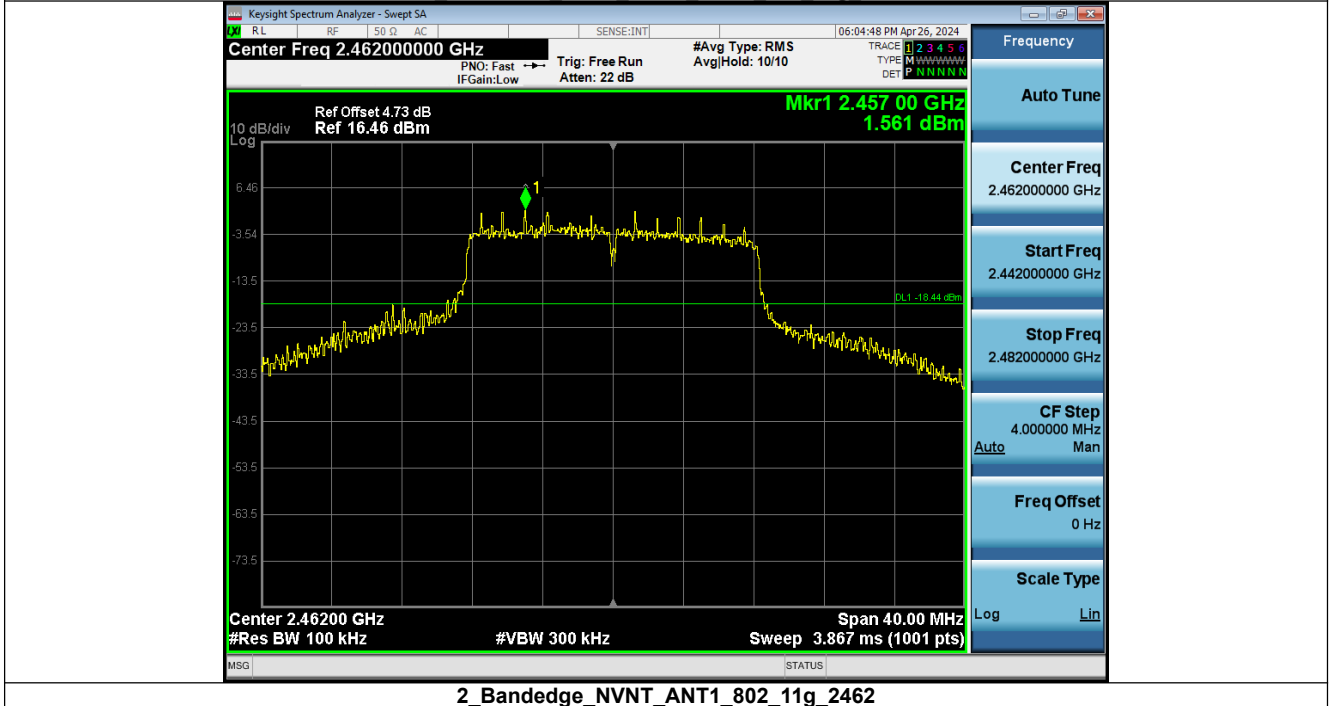
1 Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



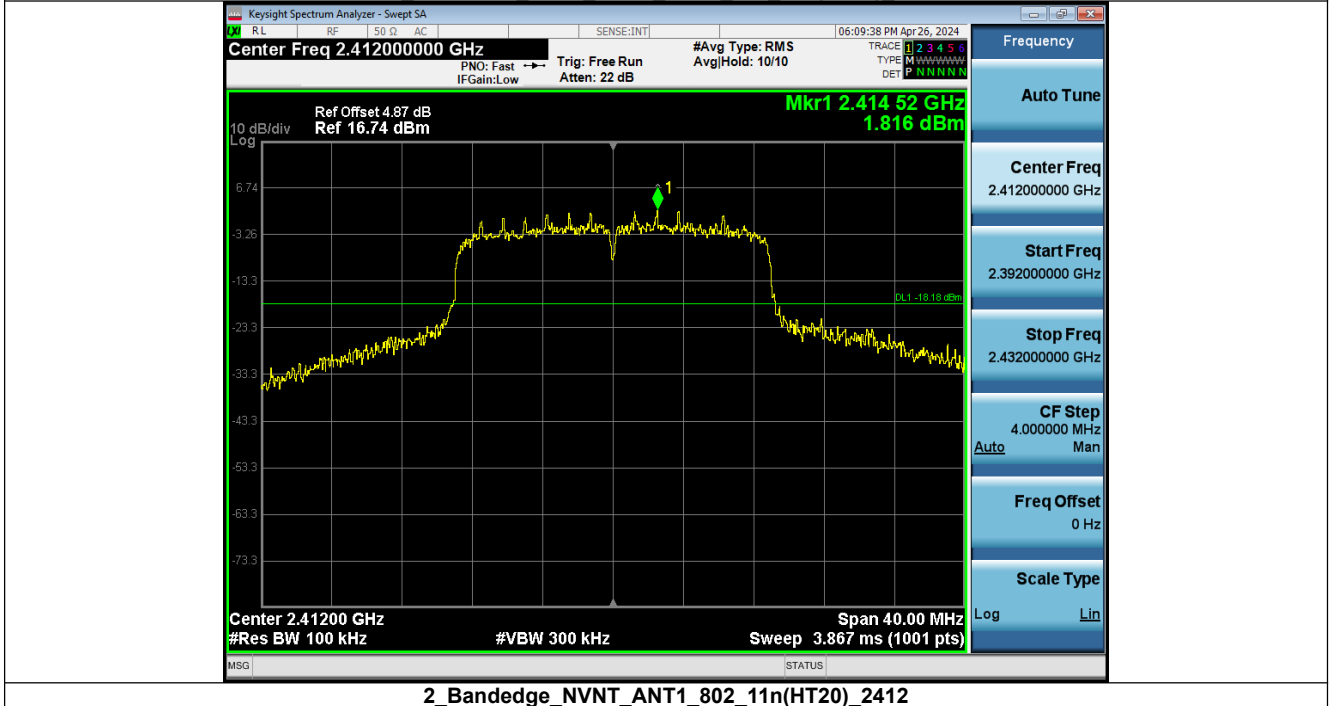
1 Reference_Level_NVNT_ANT1_802_11g_2462



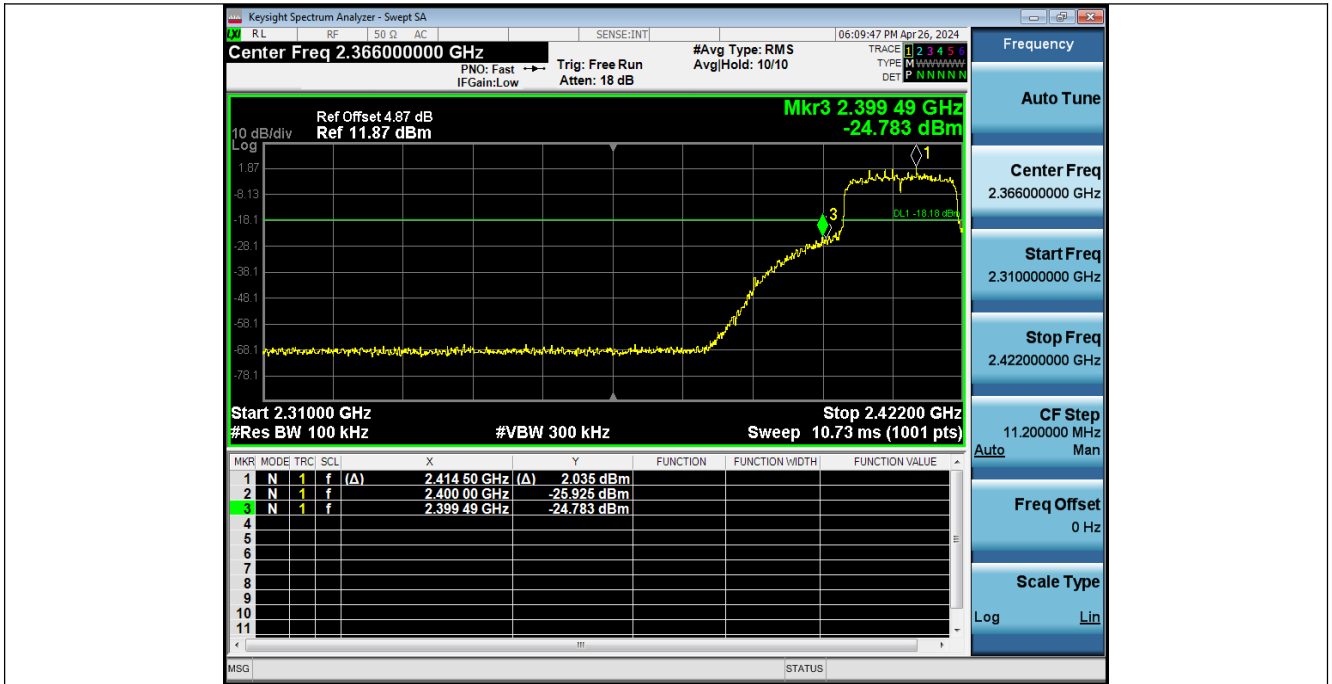
2_Bandedge_NVNT_ANT1_802_11g_2462



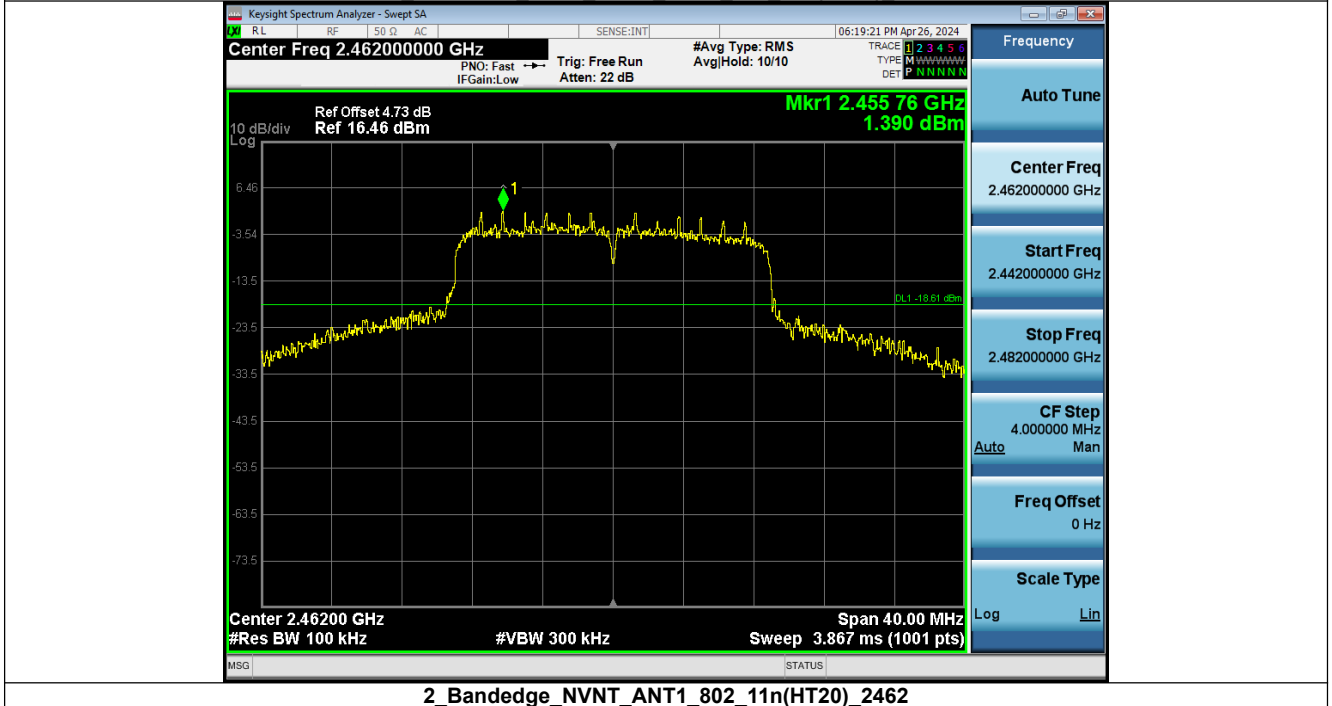
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



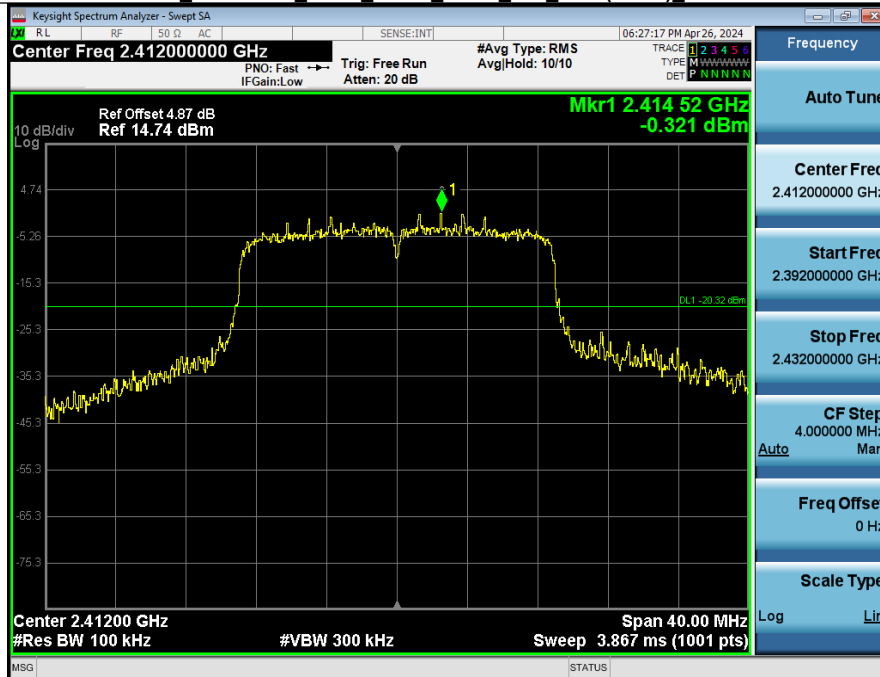
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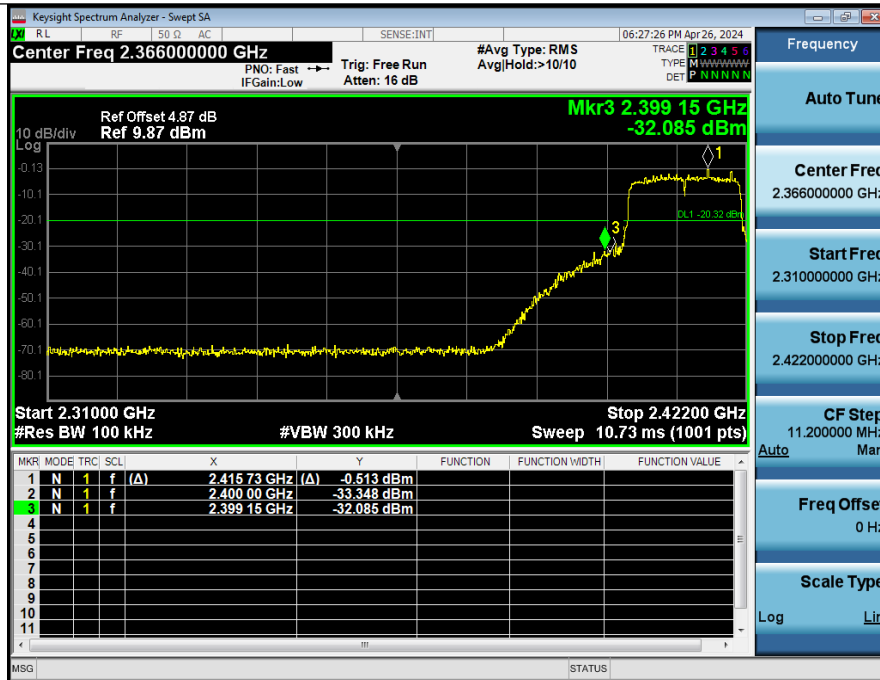
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



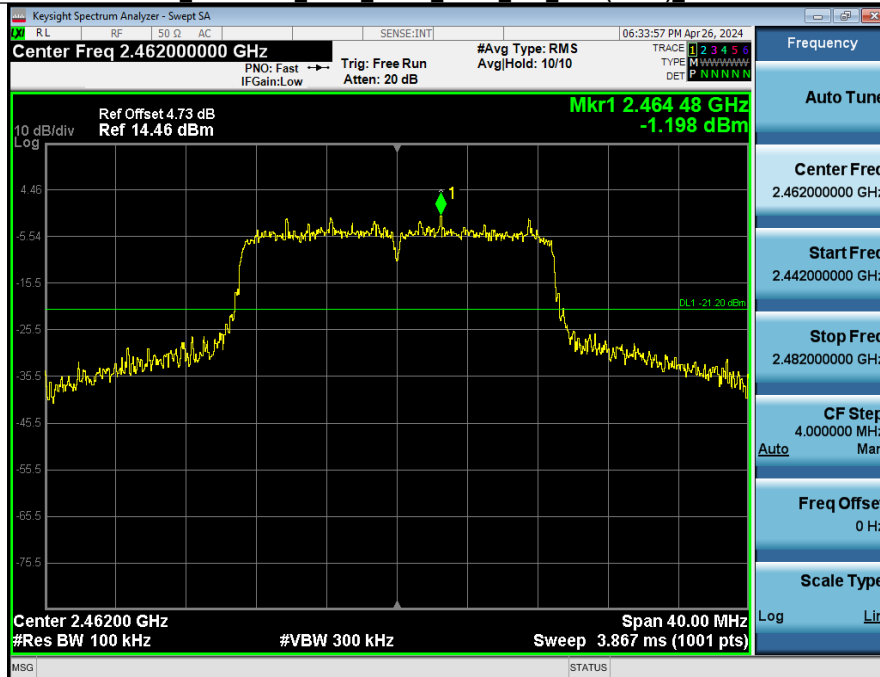
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



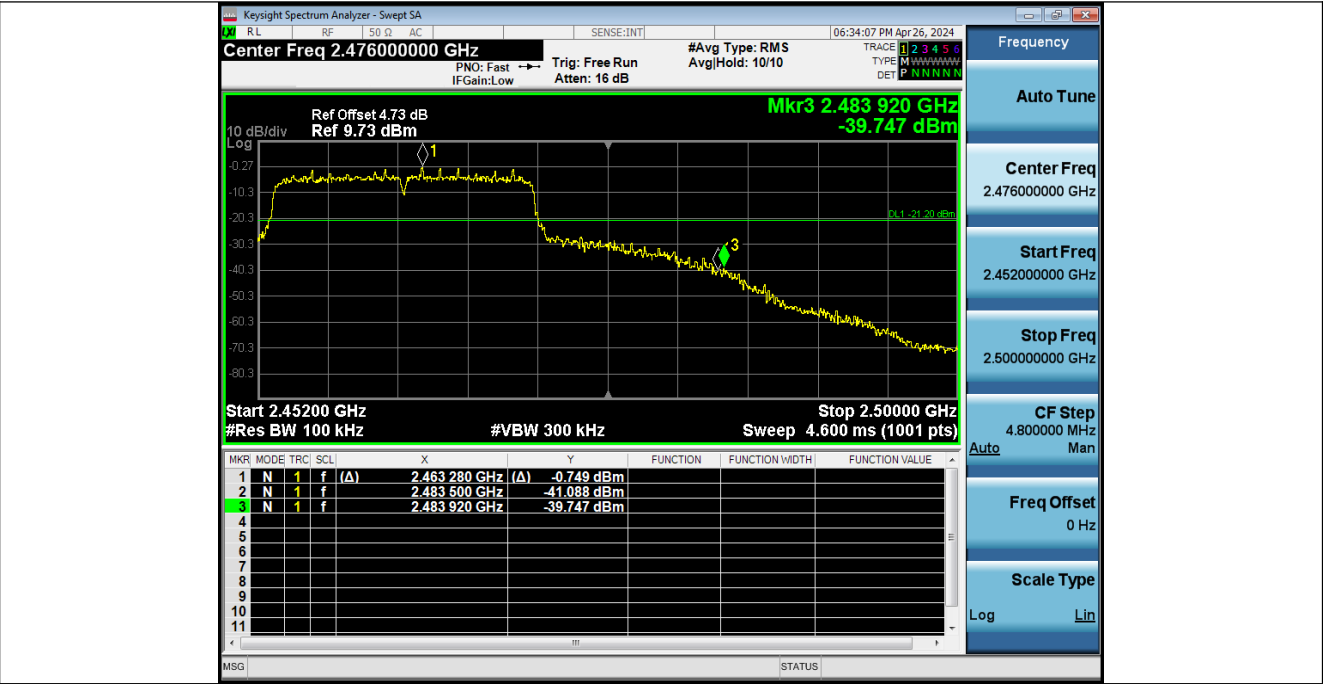
2_Bandedge_NVNT_ANT1_802_11ax(HE20)_2412



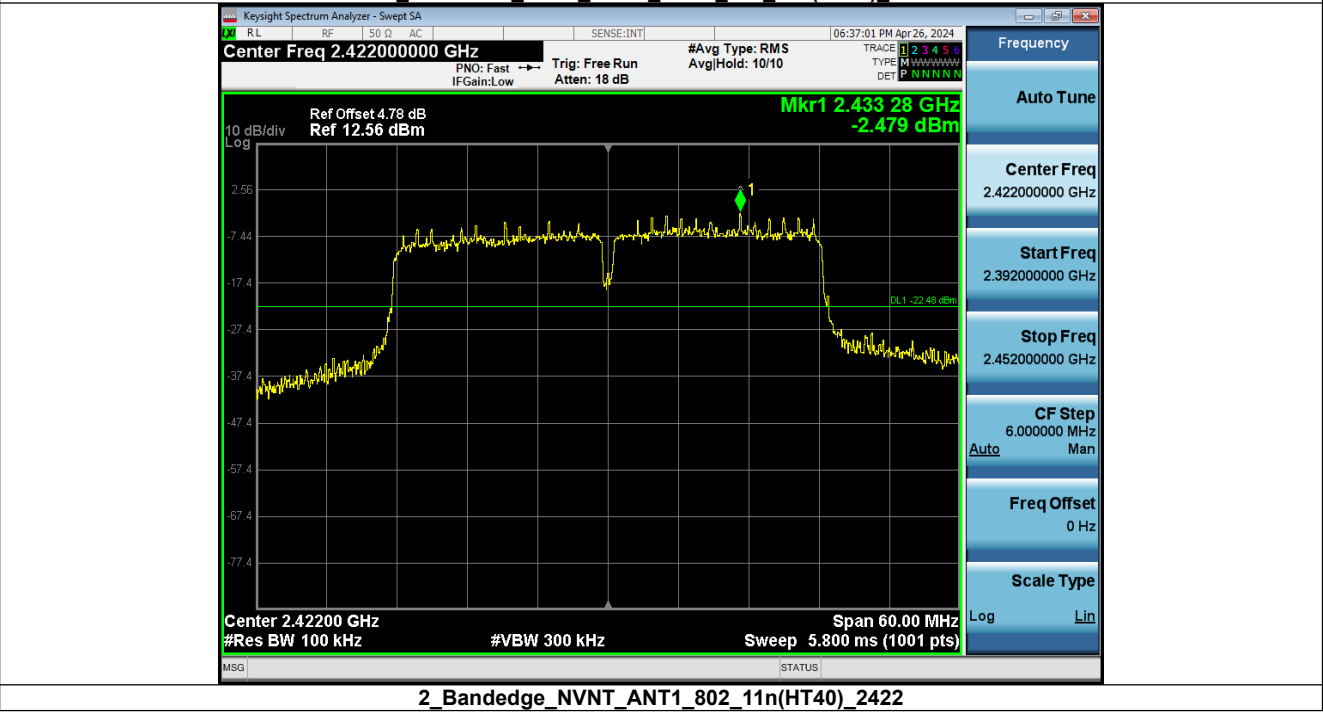
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2462



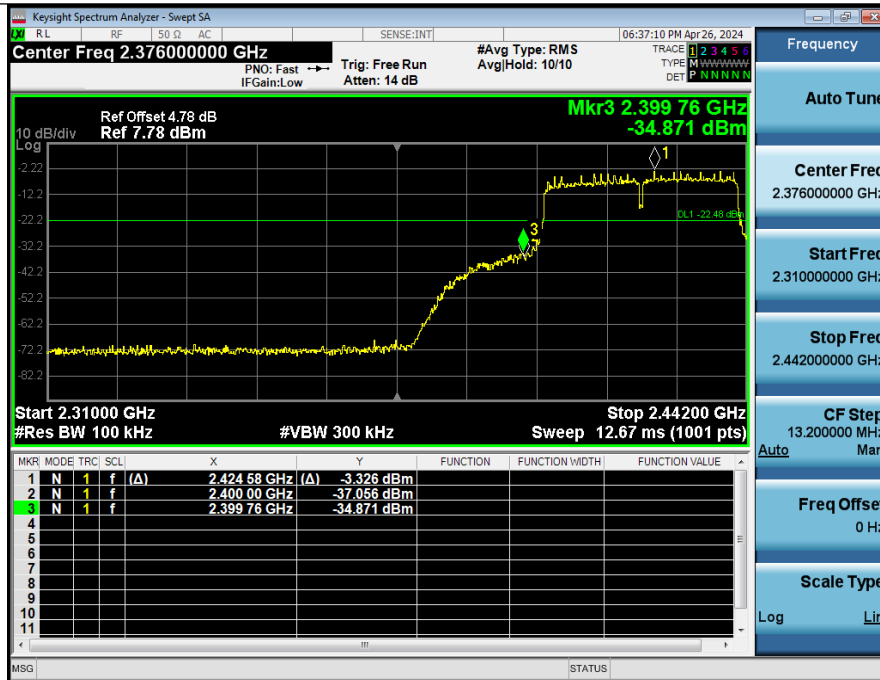
2_Bandedge_NVNT_ANT1_802_11ax(HE20)_2462



1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



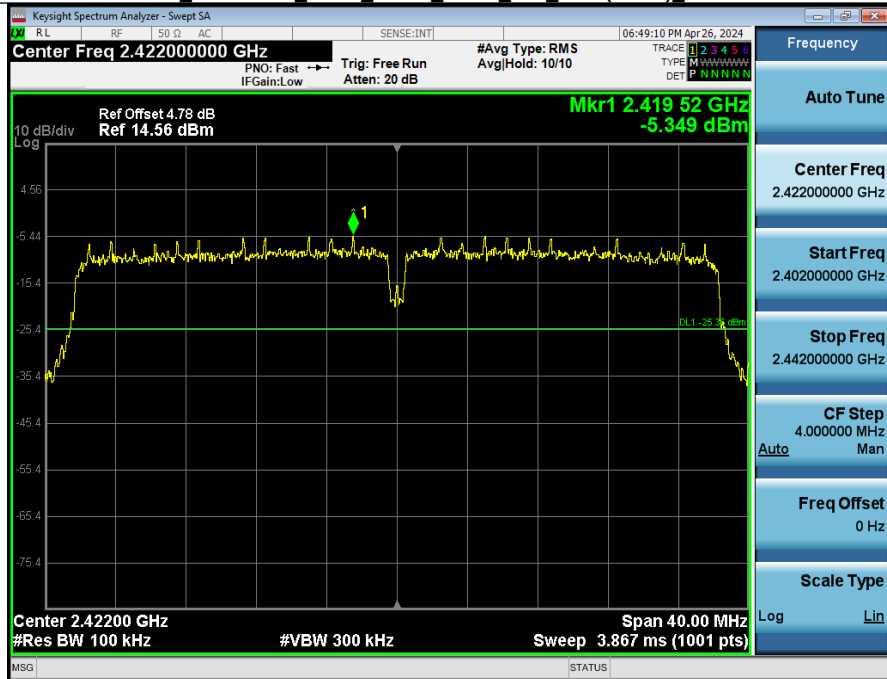
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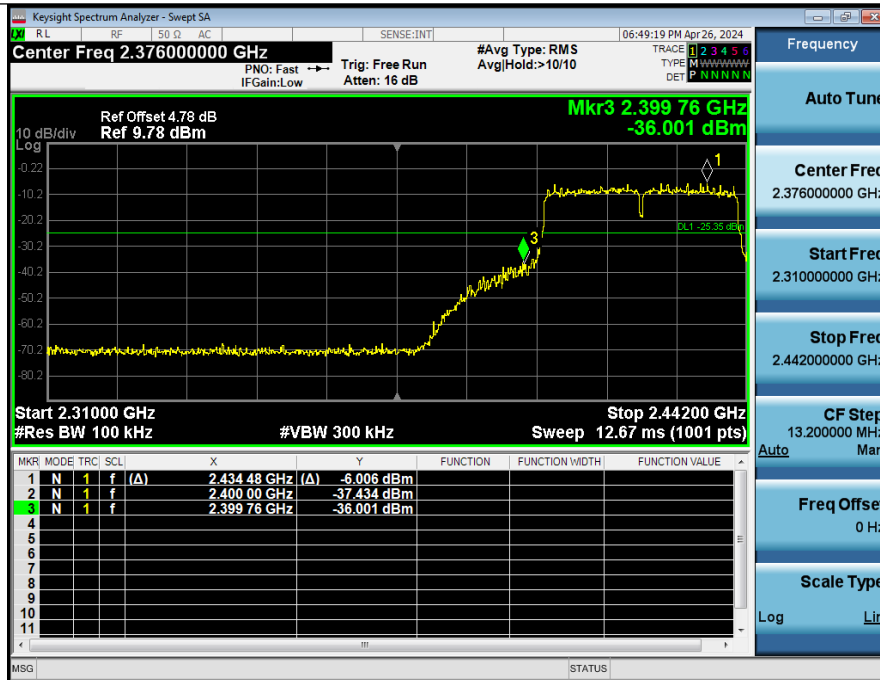
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



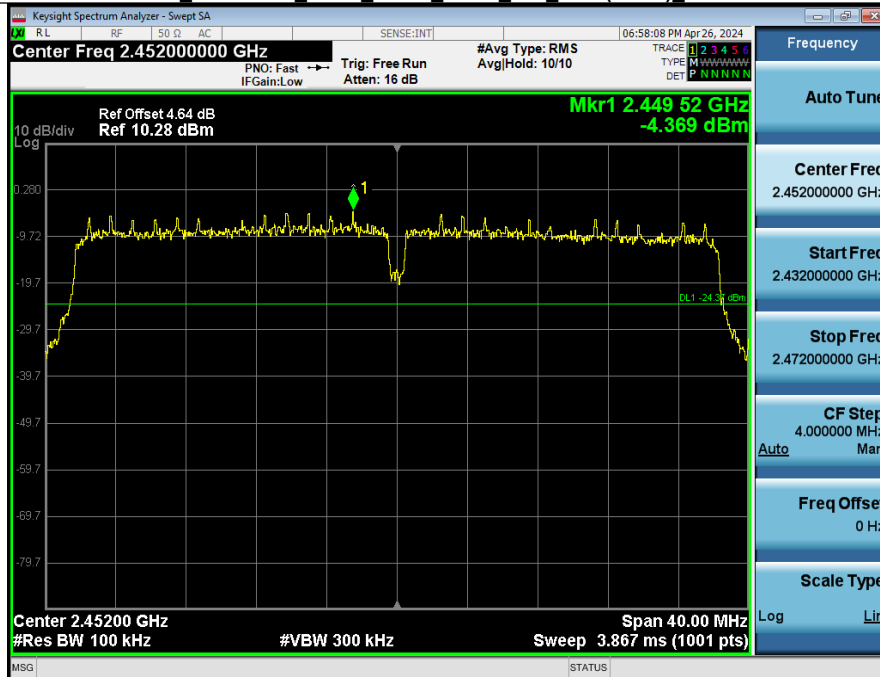
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2422



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2452



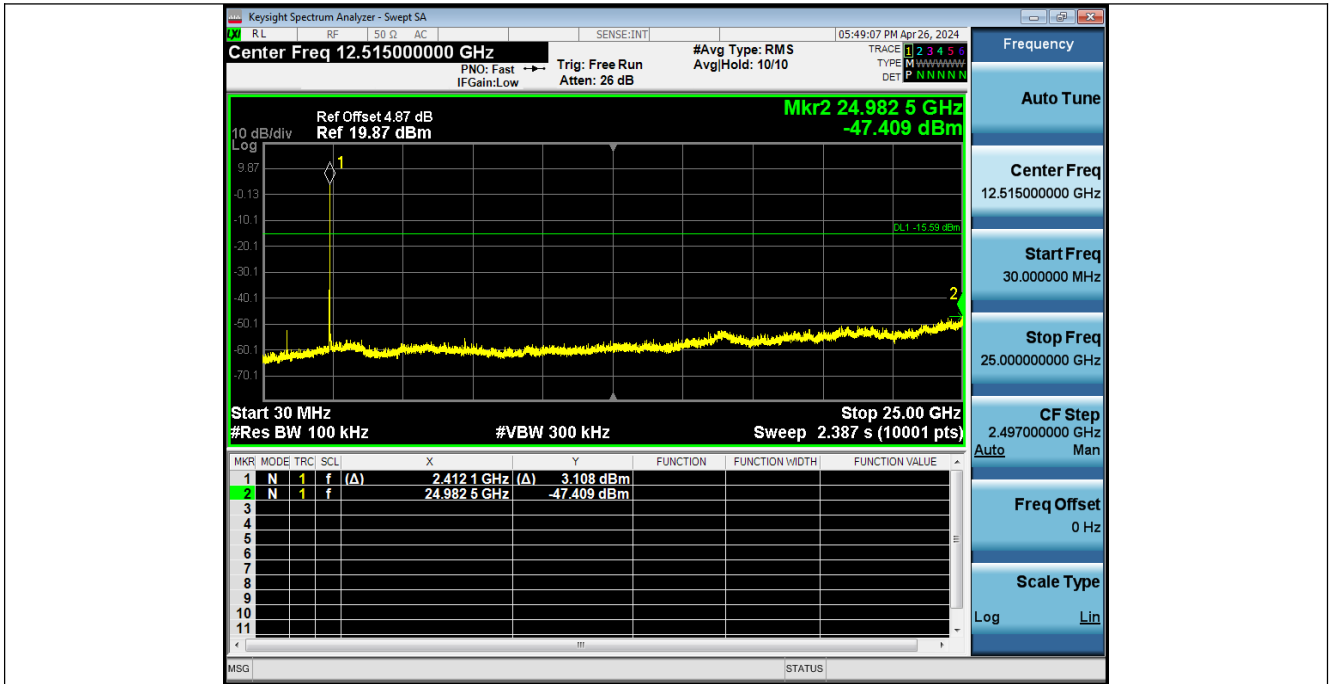
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24982.521	-47.409	-15.586	Pass
NVNT	ANT1	802.11b	2437.00	24945.066	-50.191	-17.192	Pass
NVNT	ANT1	802.11b	2462.00	24980.024	-48.120	-16.048	Pass
NVNT	ANT1	802.11g	2412.00	24910.108	-51.808	-18.898	Pass
NVNT	ANT1	802.11g	2437.00	24990.012	-51.819	-20.434	Pass
NVNT	ANT1	802.11g	2462.00	911.441	-47.905	-18.439	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	913.938	-53.779	-18.184	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24977.527	-57.446	-20.243	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	911.441	-47.076	-18.610	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	893.962	-54.917	-20.321	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	913.938	-51.946	-22.857	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	24750.300	-58.367	-21.198	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24380.744	-60.162	-22.479	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24957.551	-59.433	-22.965	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	913.938	-50.684	-21.878	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	24967.539	-58.701	-25.349	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	1745.439	-47.015	-25.107	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	24997.503	-62.972	-24.369	Pass

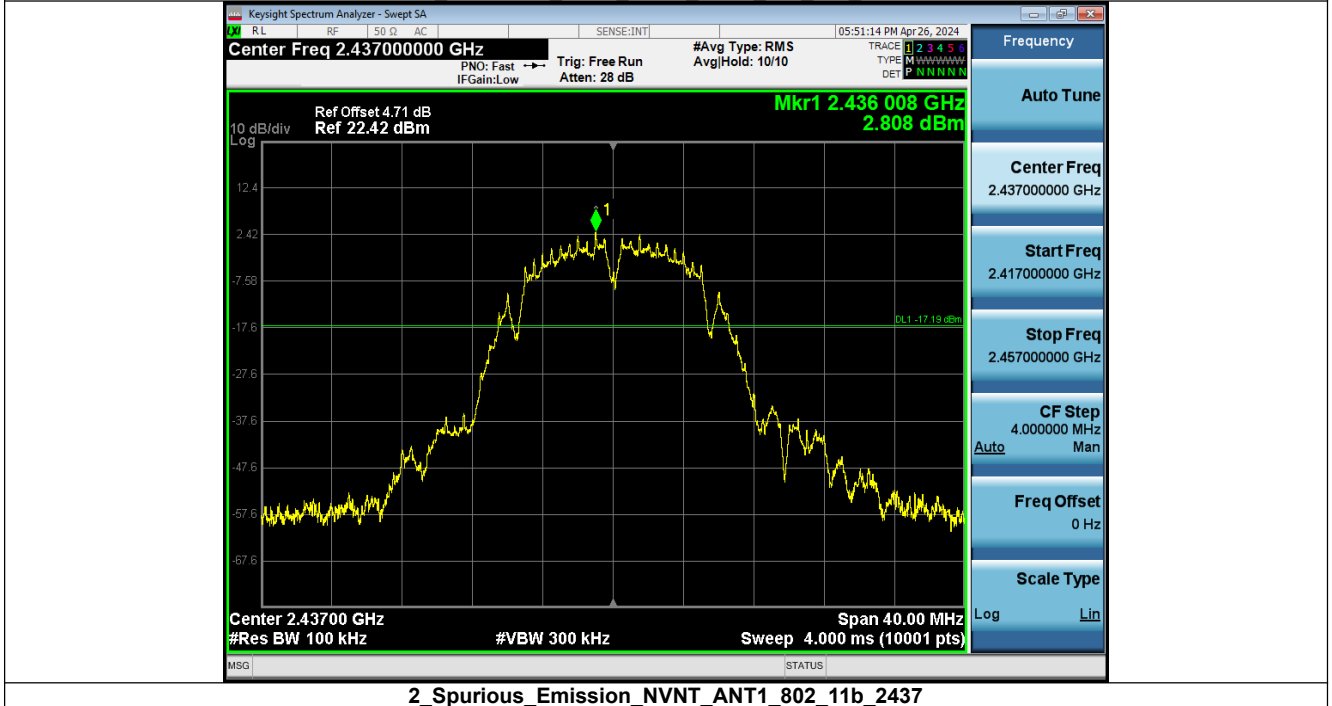
1 Reference_Level_NVNT_ANT1_802_11b_2412



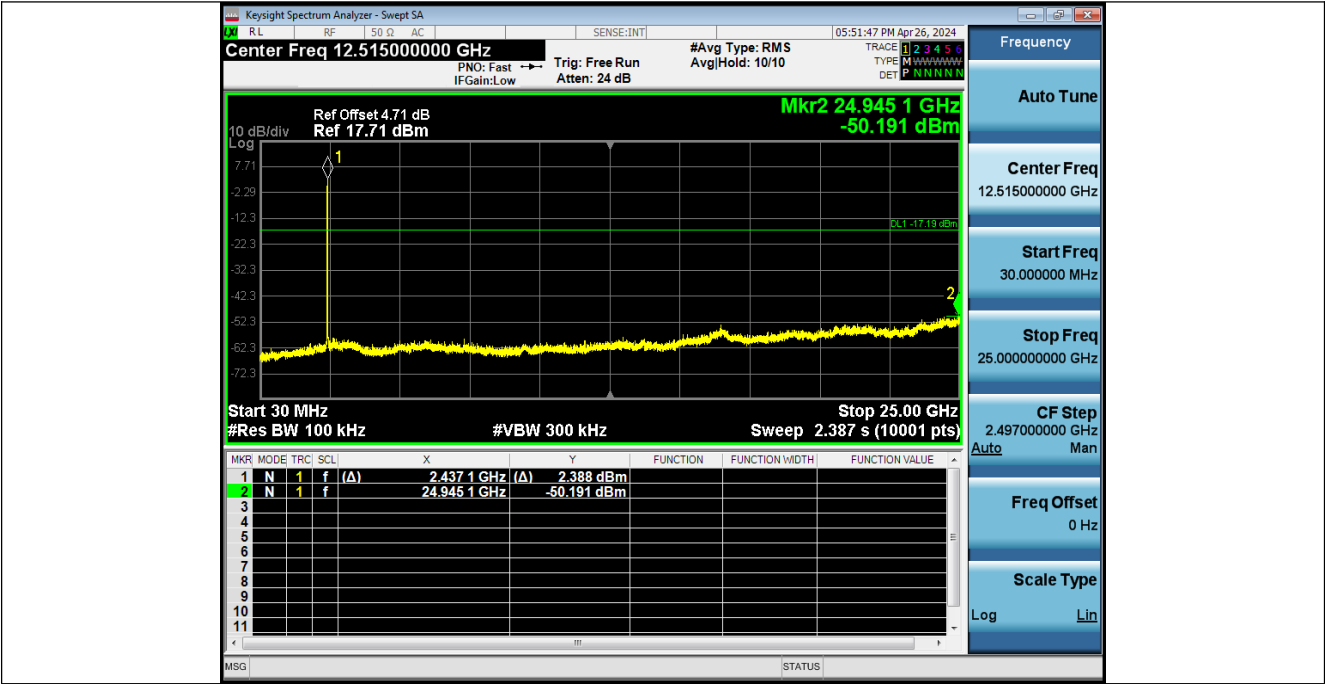
2 Spurious_Emission_NVNT_ANT1_802_11b_2412



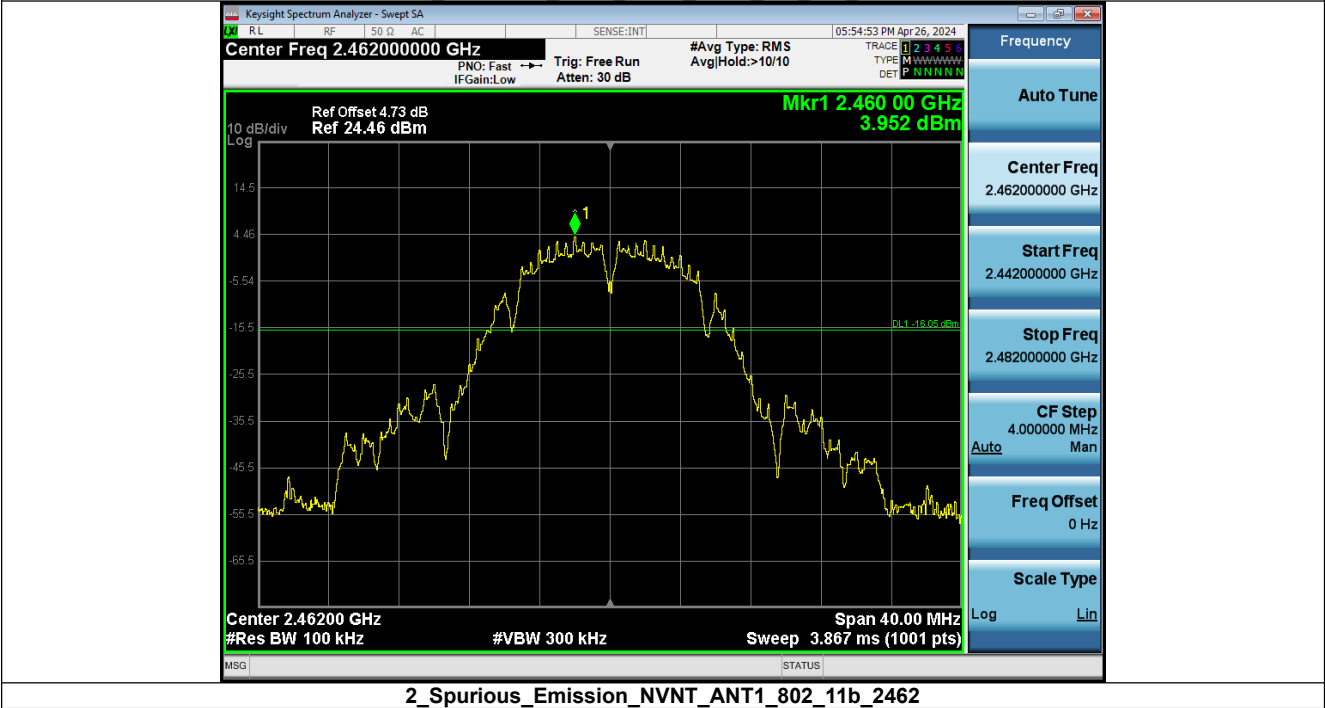
1 Reference Level NVNT_ANT1_802_11b_2437



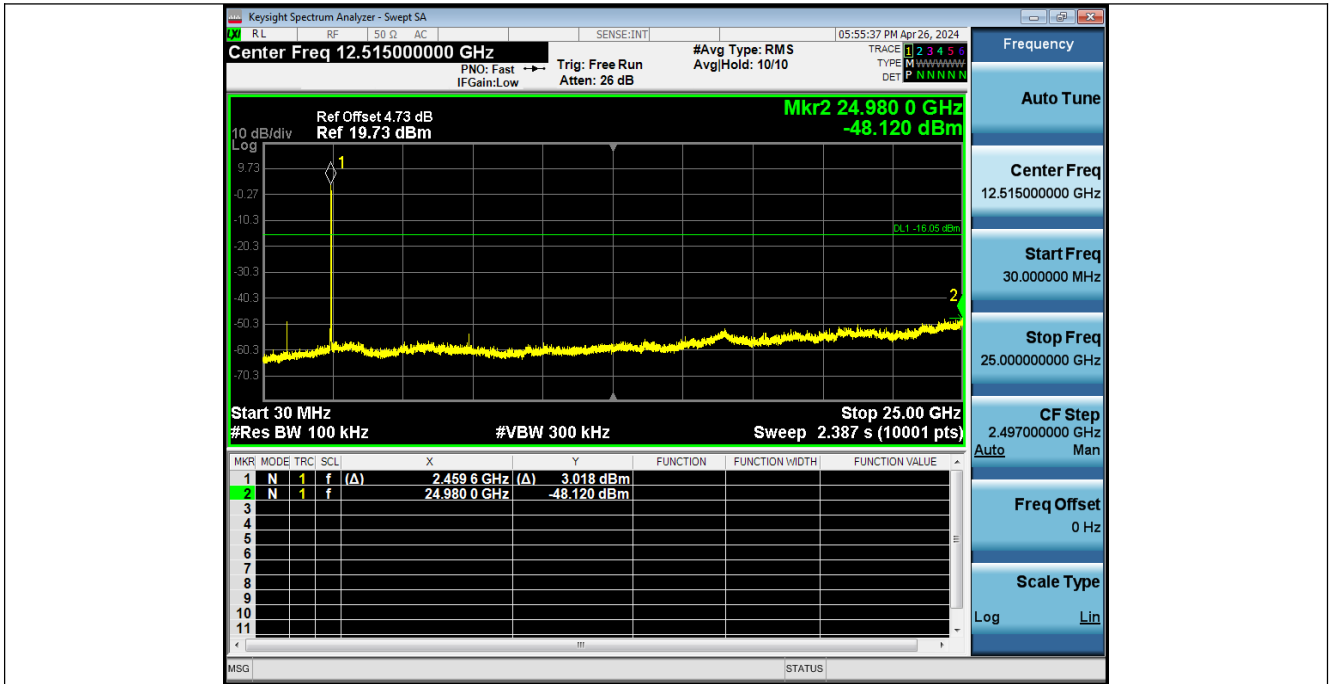
2 Spurious_Emission_NVNT_ANT1_802_11b_2437



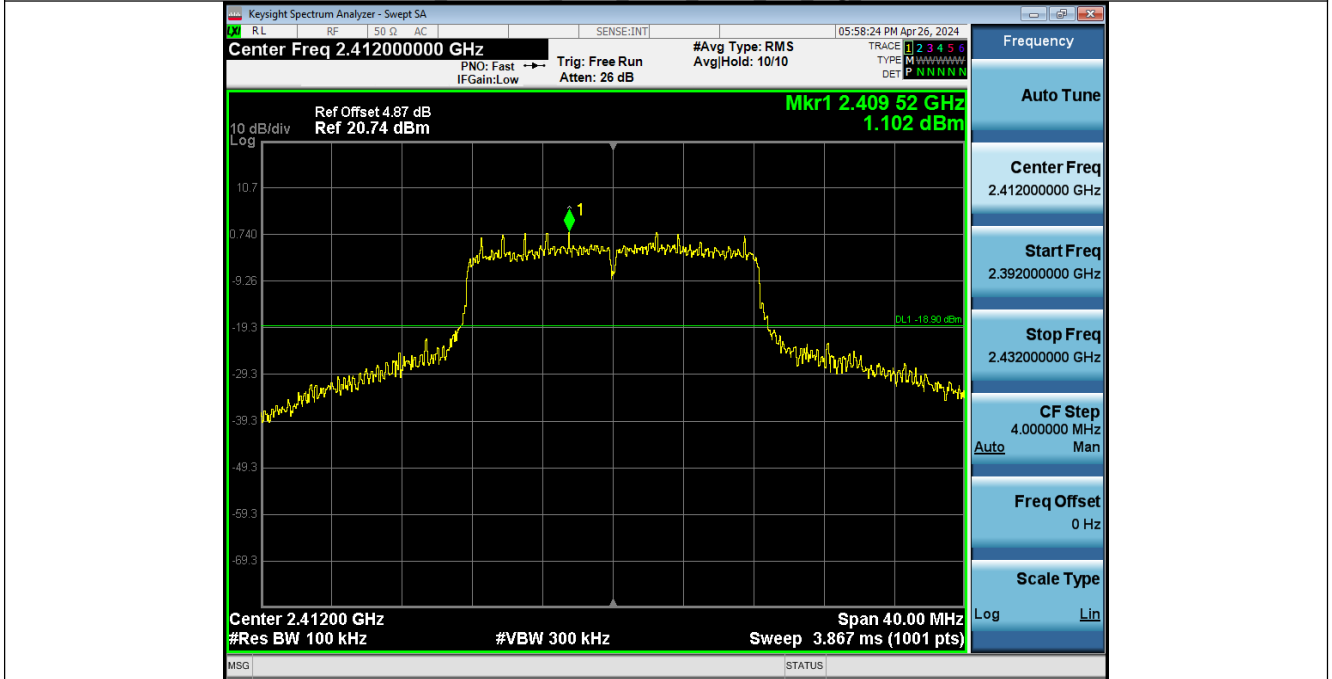
1 Reference Level NVNT_ANT1_802_11b_2462



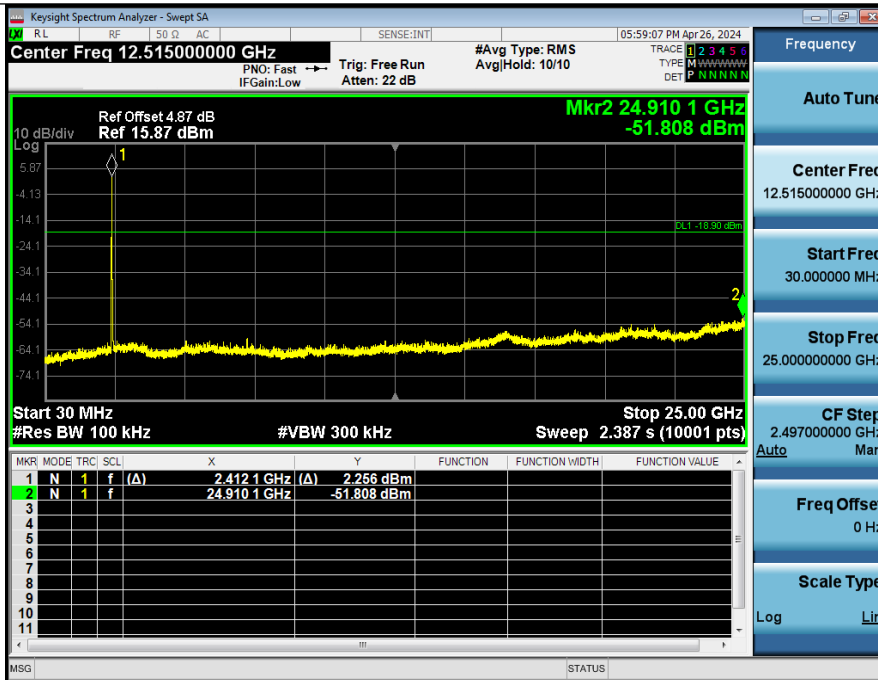
2 Spurious_Emission_NVNT_ANT1_802_11b_2462



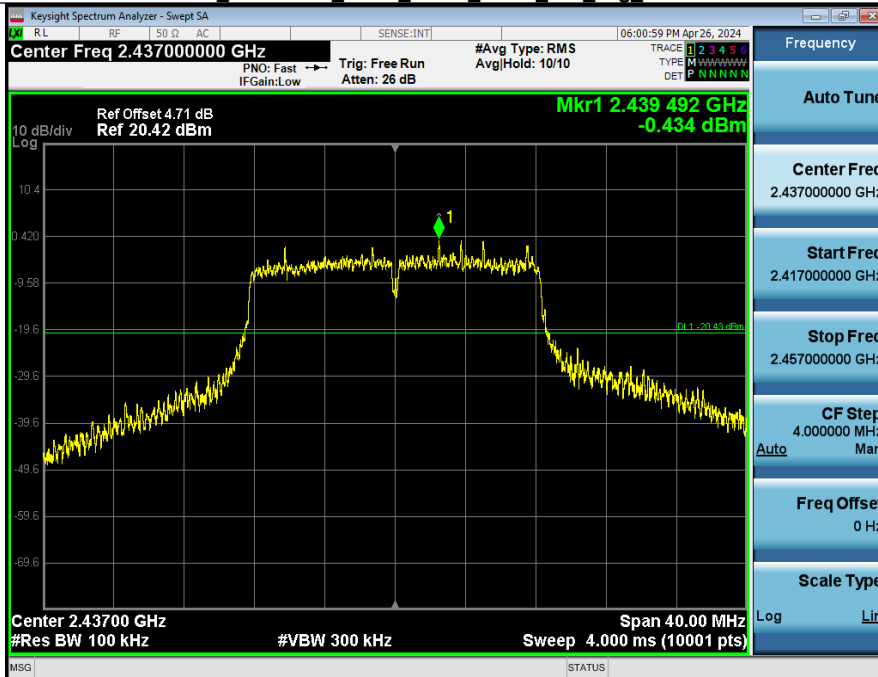
1 Reference_Level_NVNT_ANT1_802_11g_2412



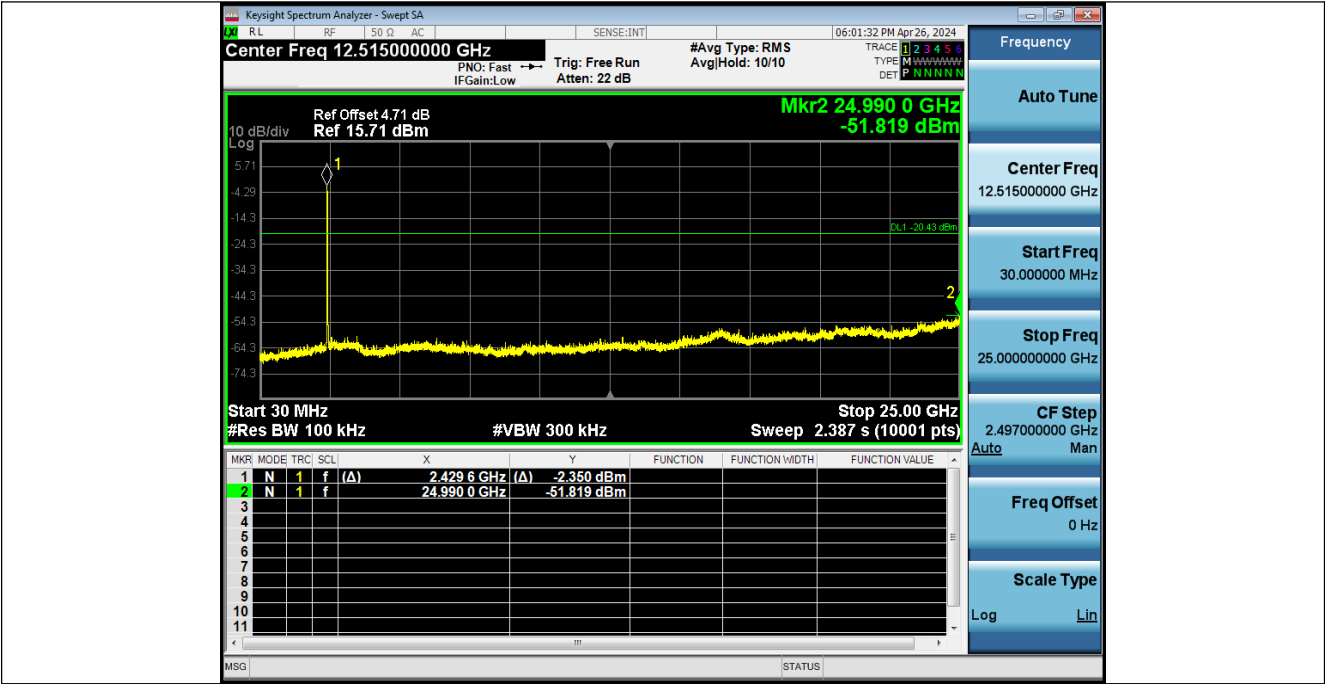
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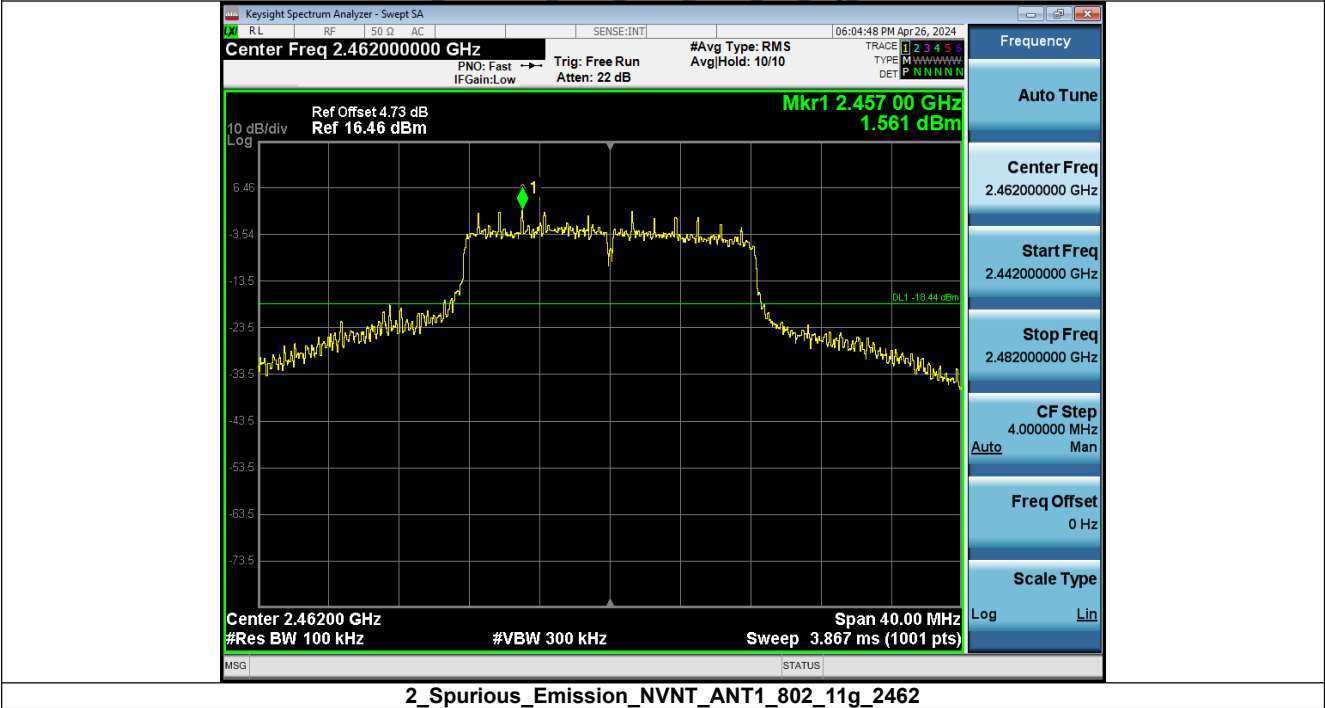
1 Reference Level NVNT_ANT1_802_11g_2437



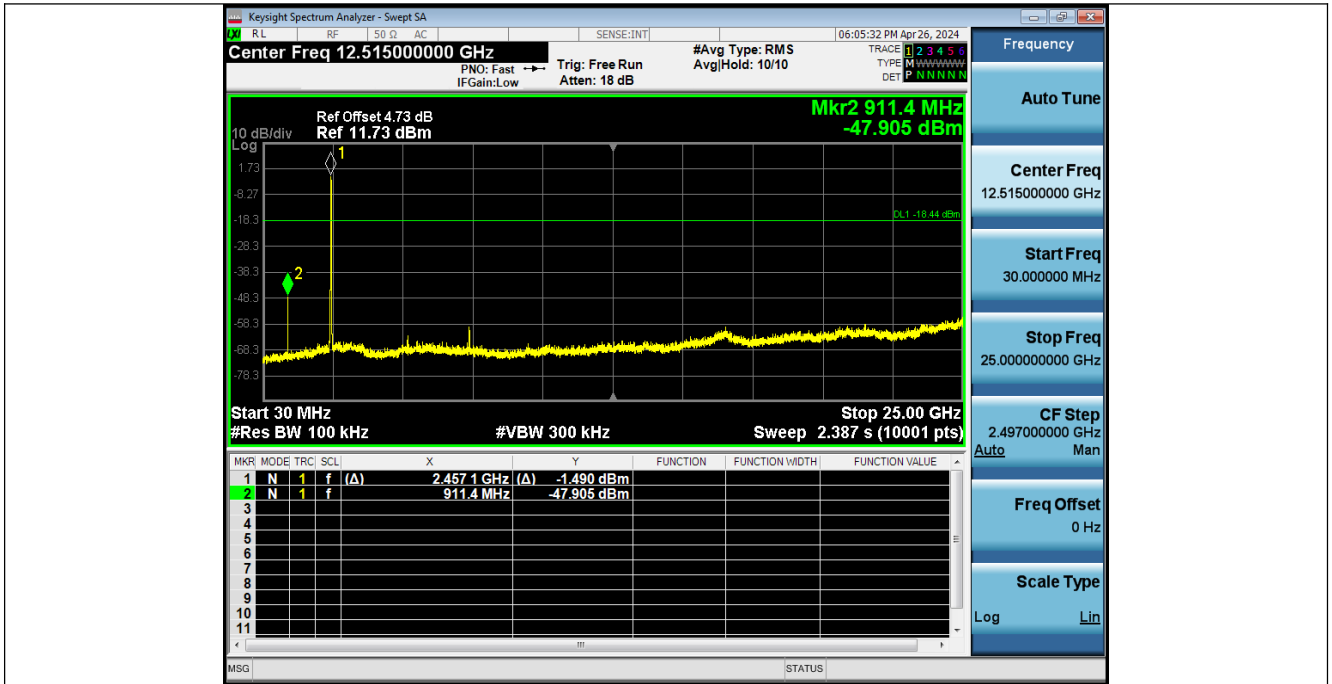
2 Spurious Emission NVNT_ANT1_802_11g_2437



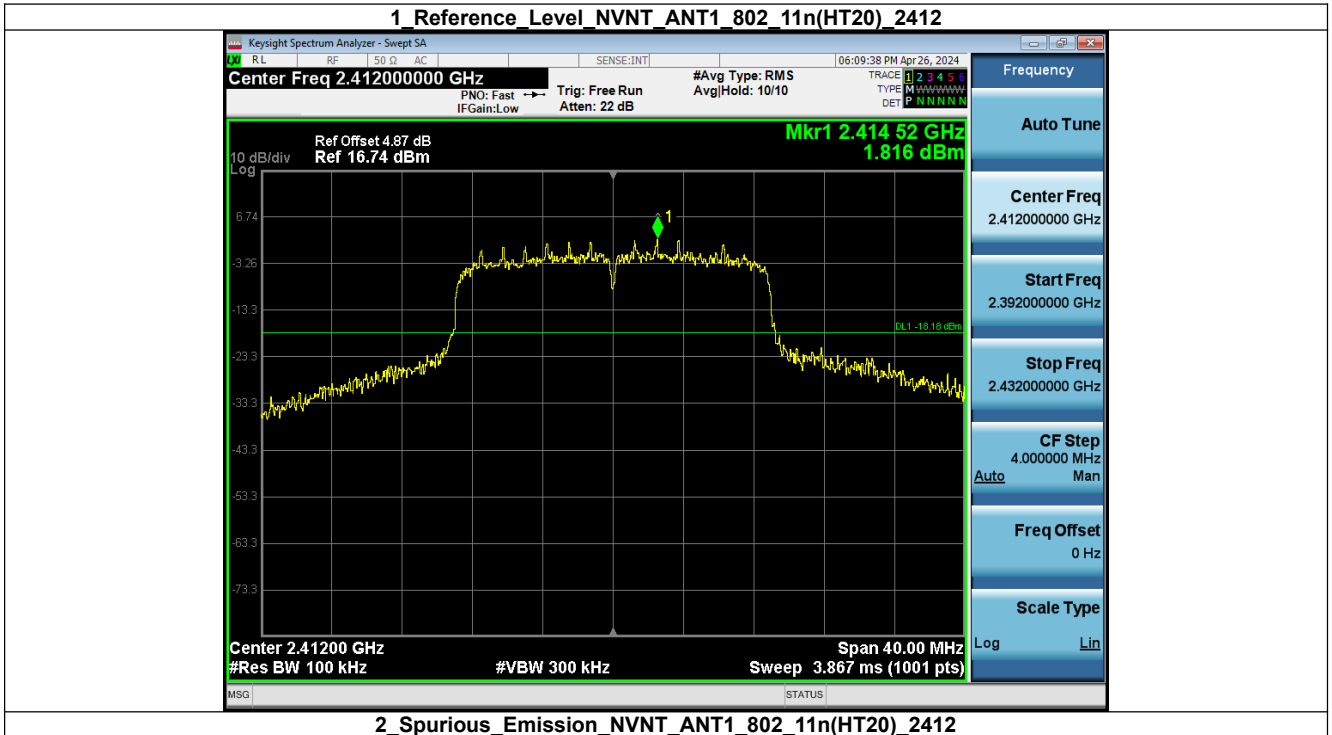
1 Reference Level NVNT_ANT1_802_11g_2462



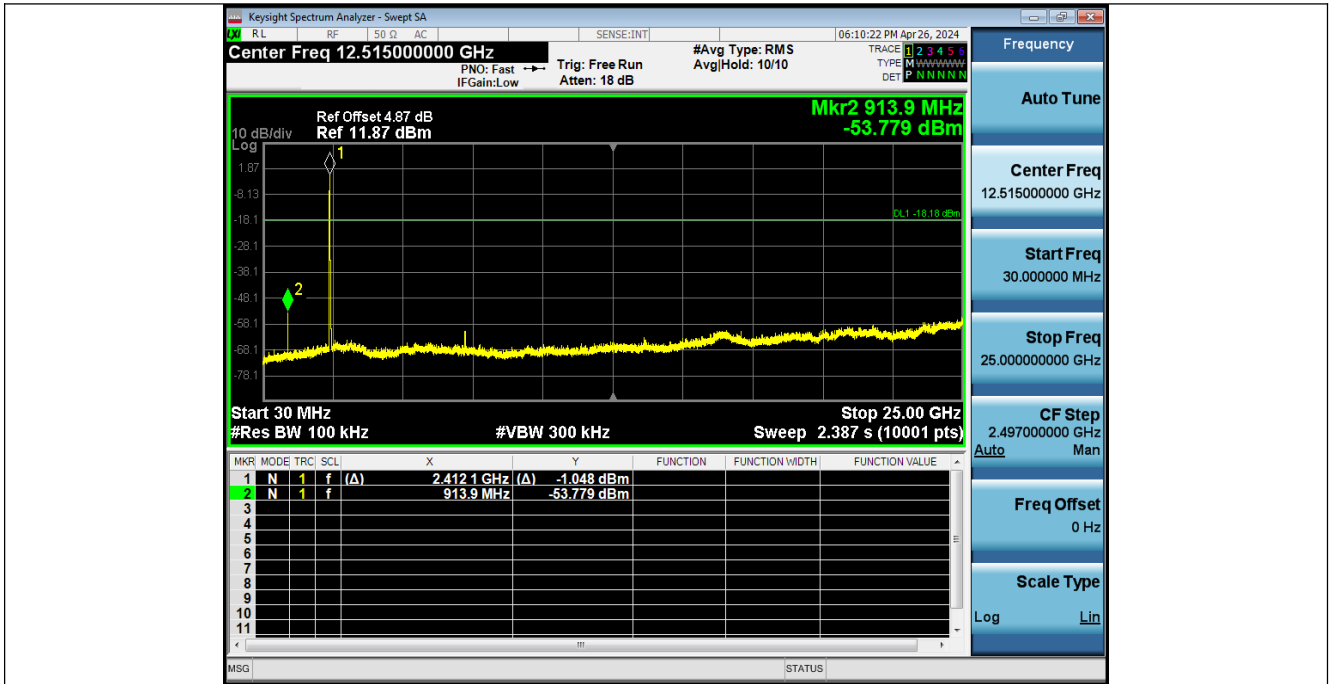
2 Spurious_Emission_NVNT_ANT1_802_11g_2462



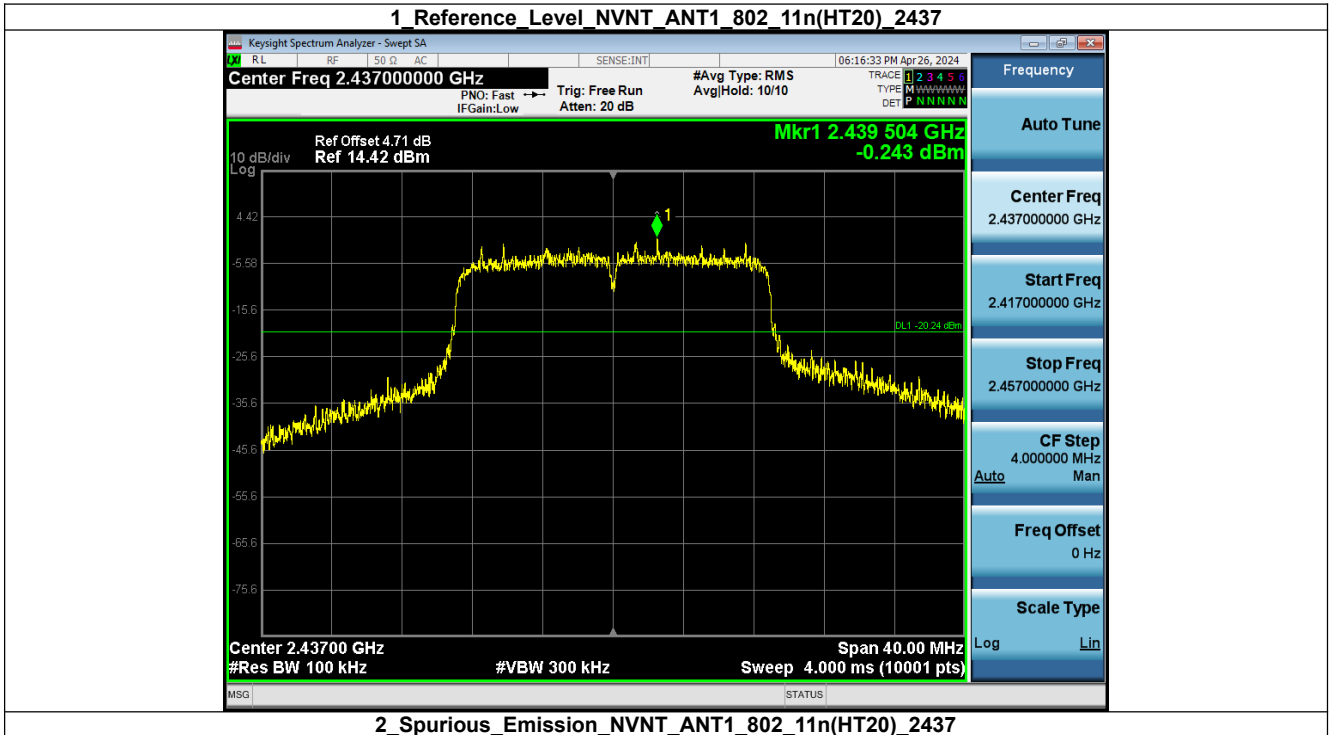
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



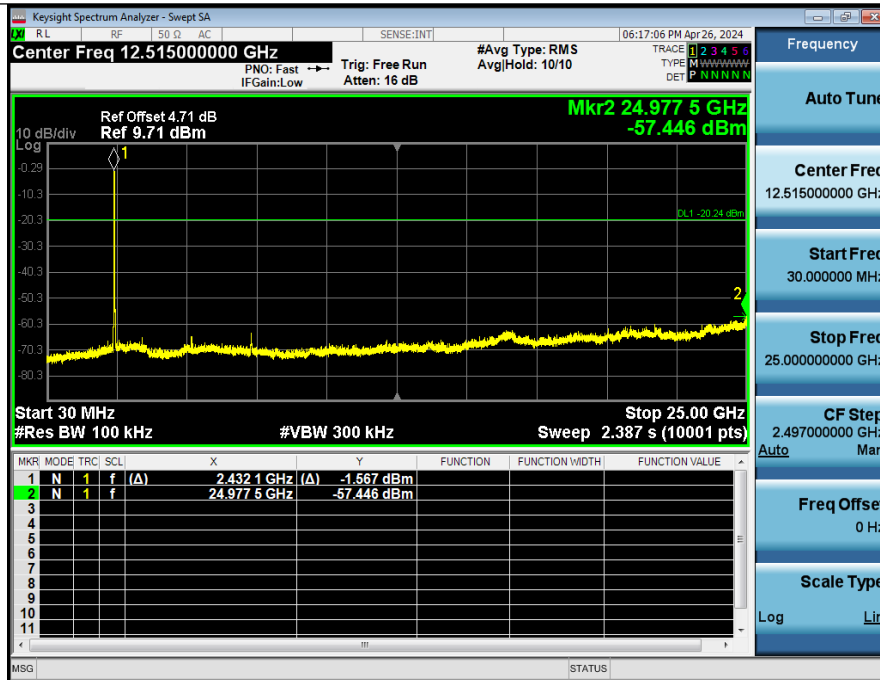
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412



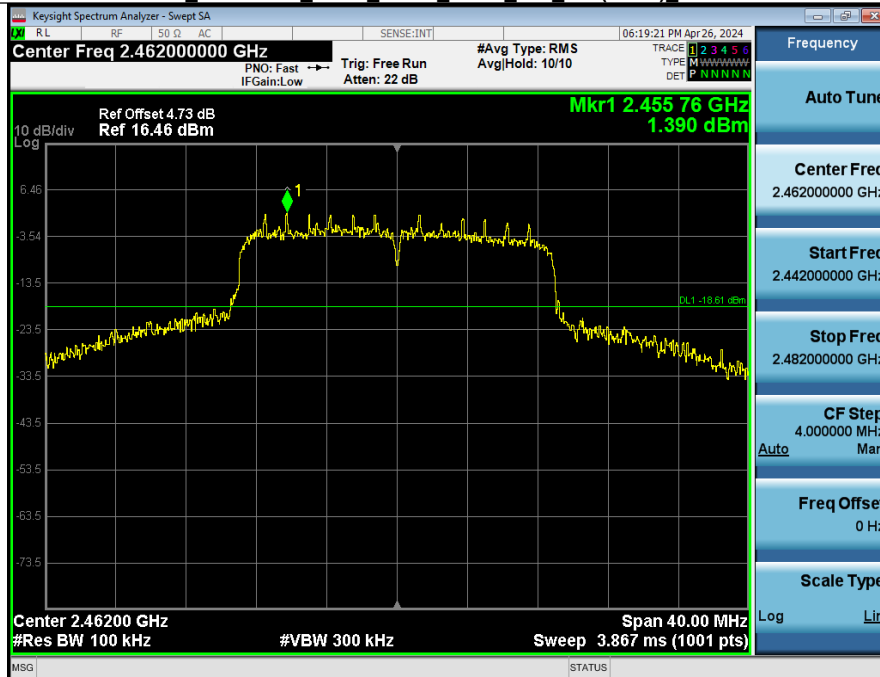
1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



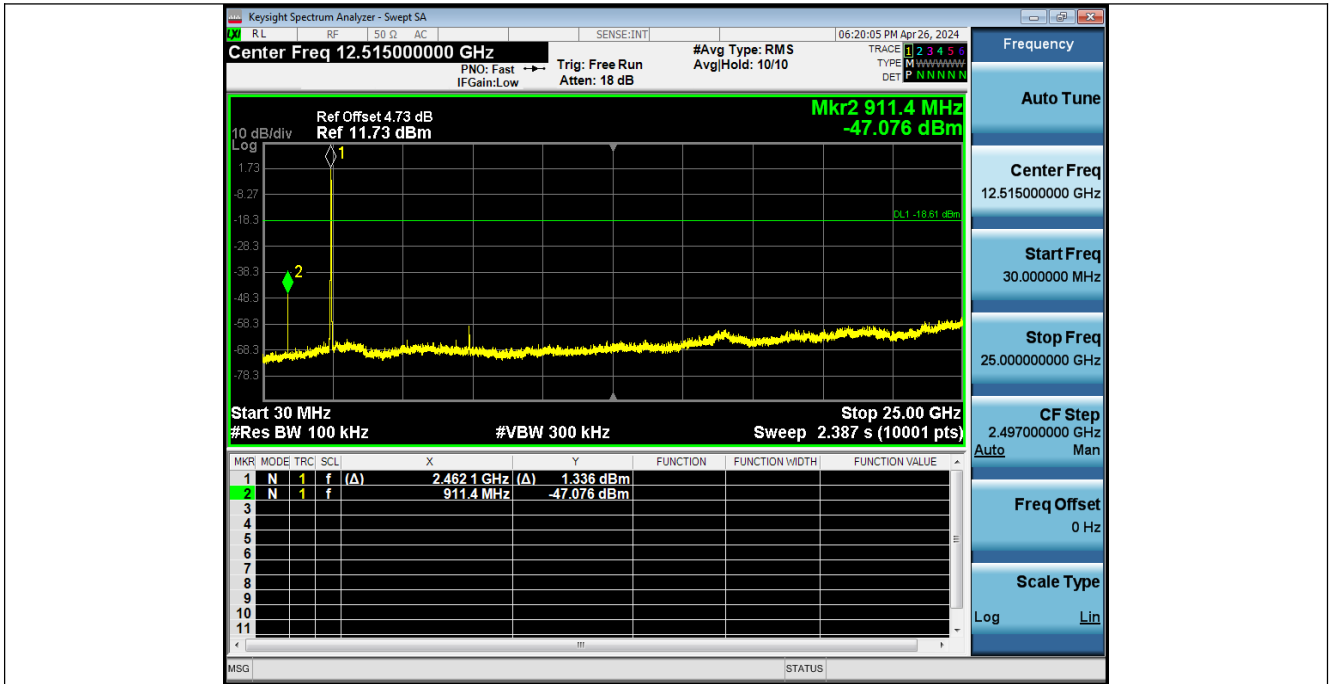
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



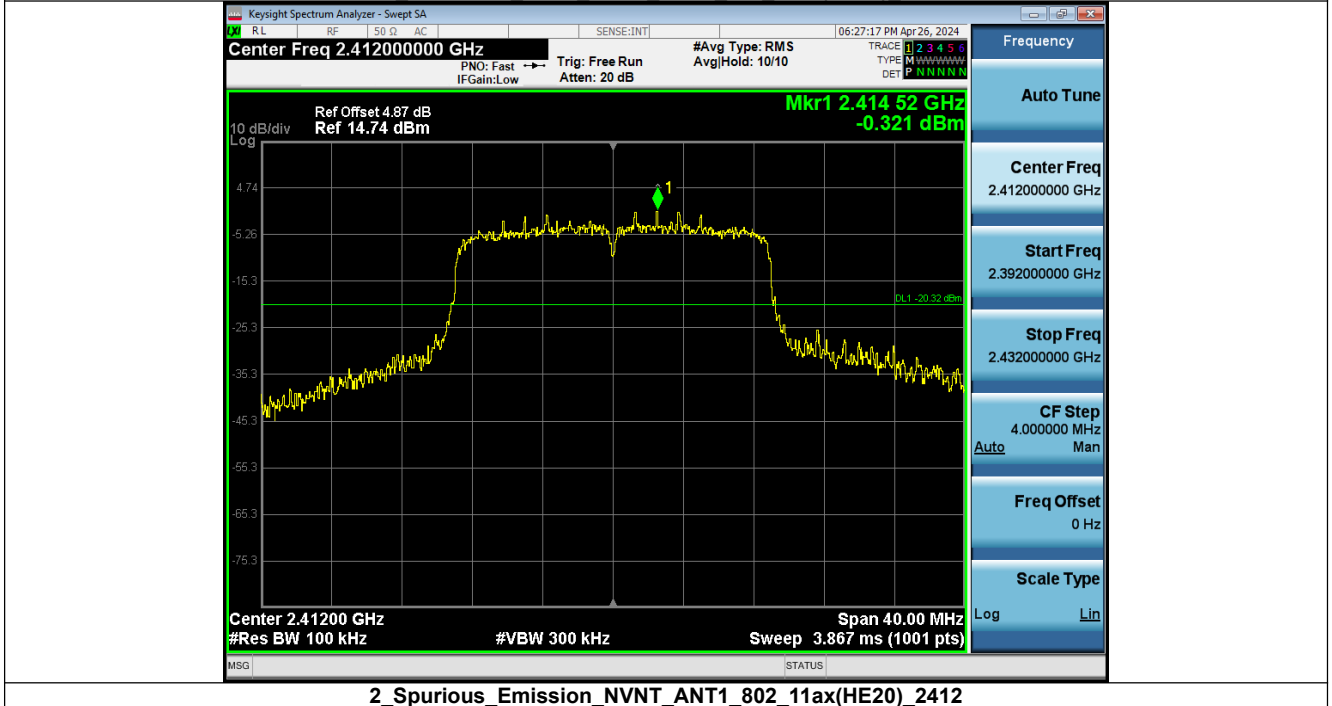
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



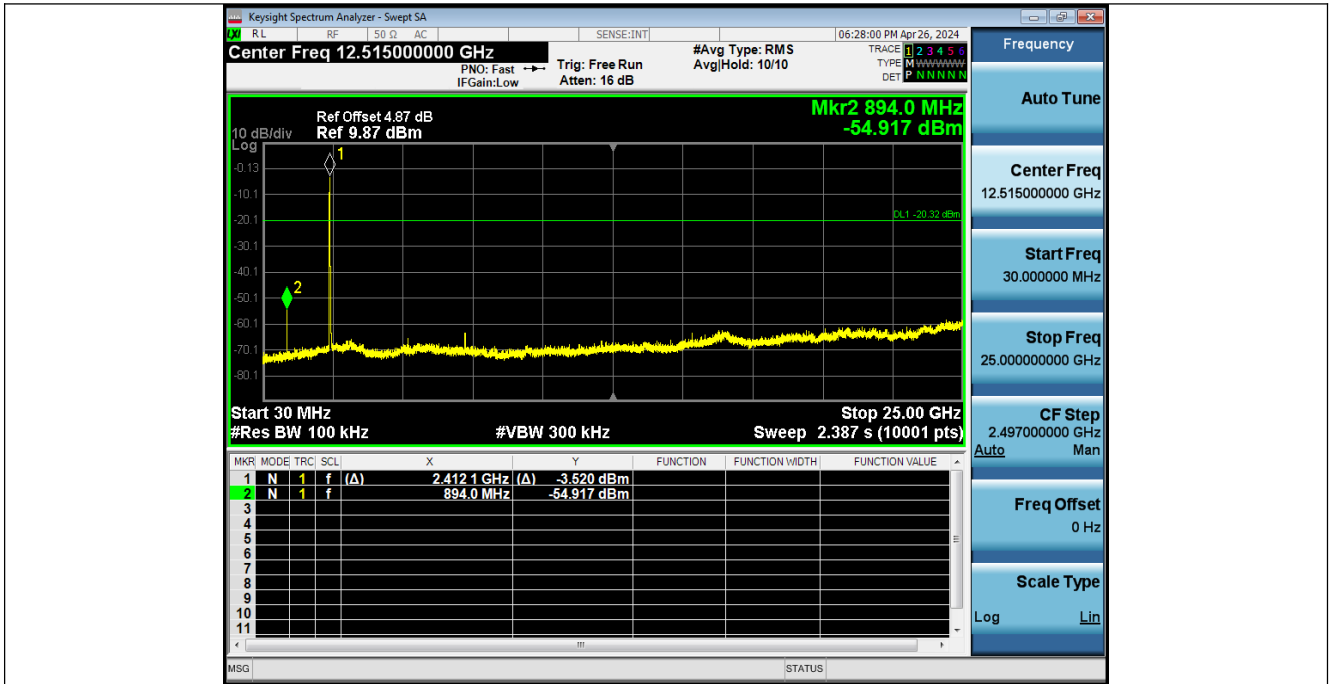
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



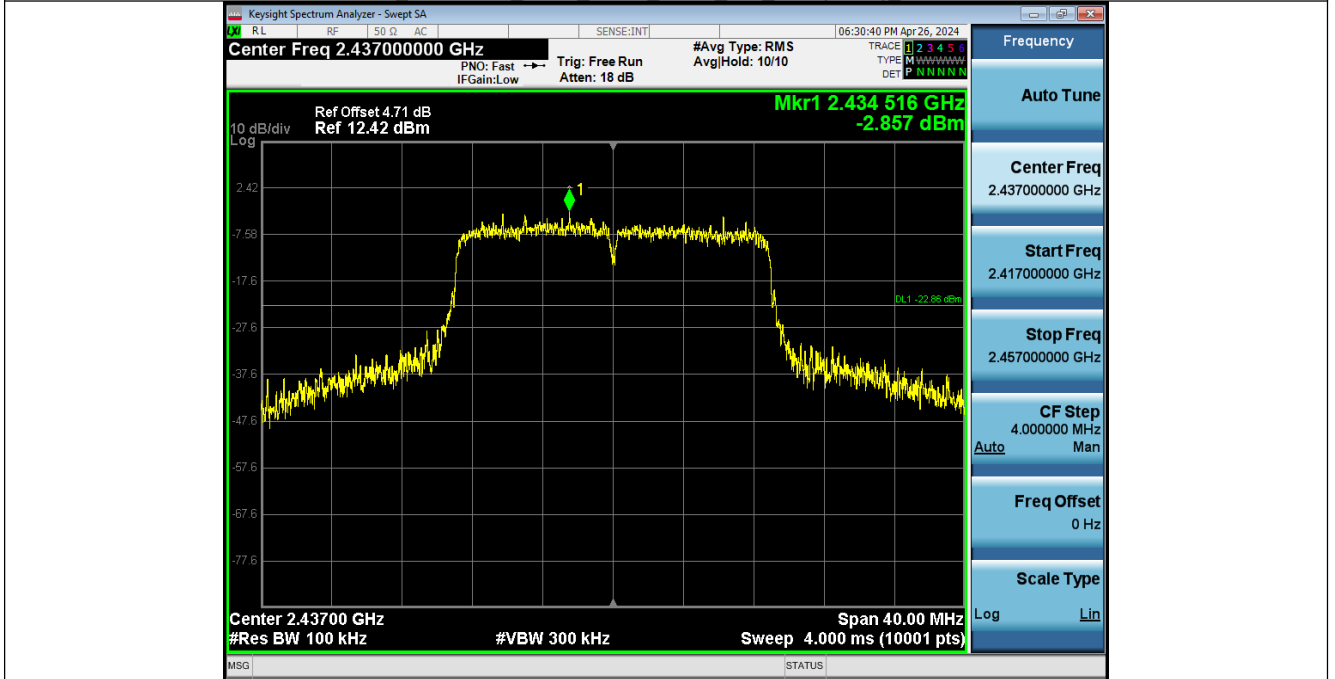
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



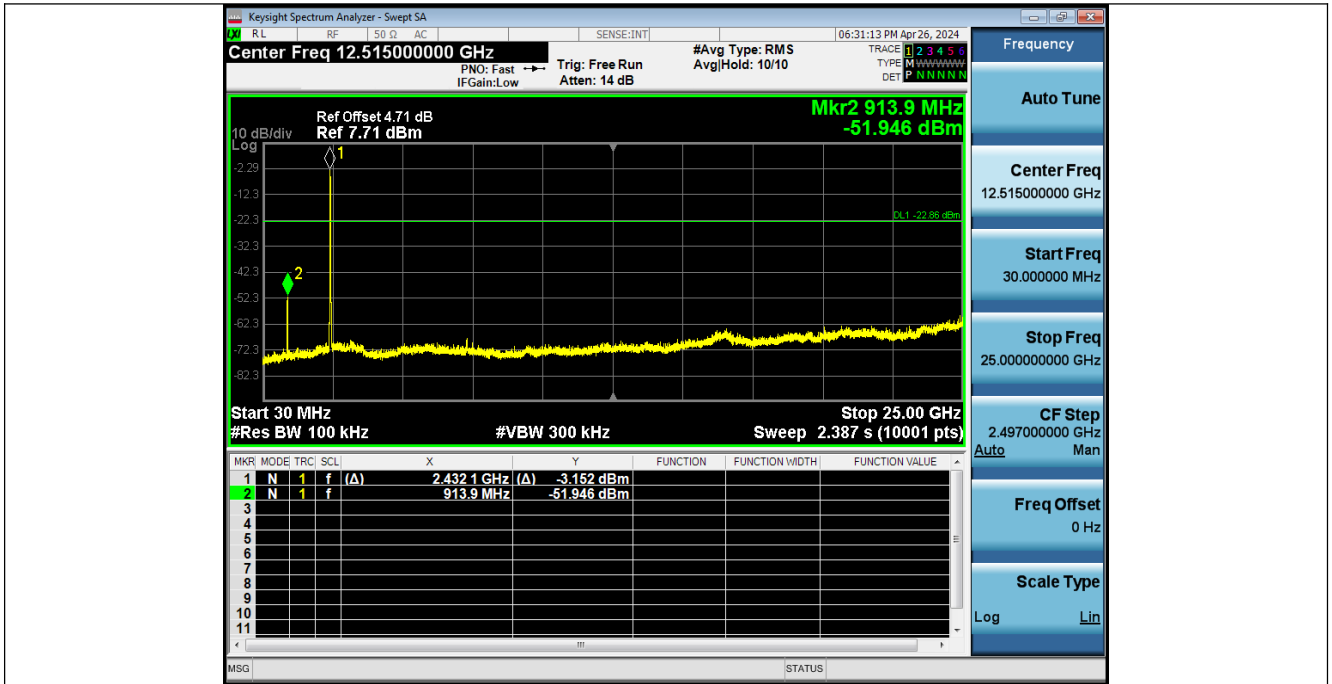
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2412



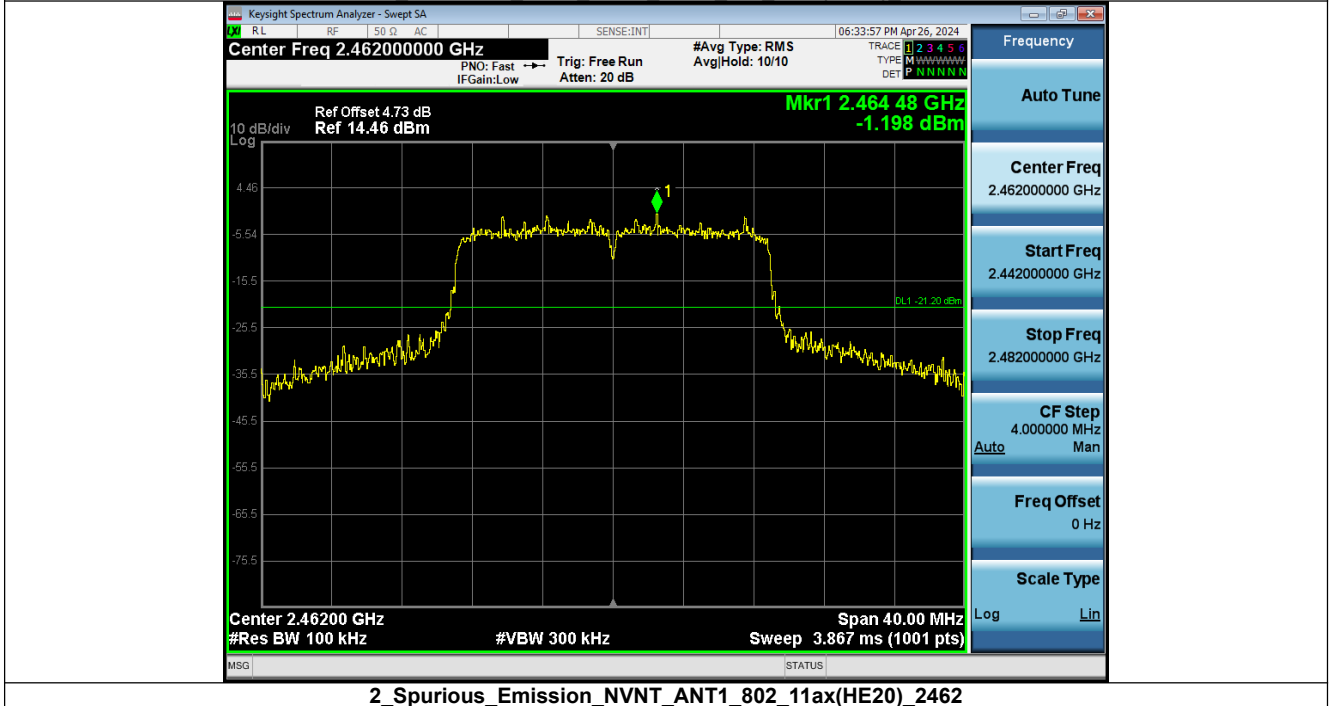
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2437



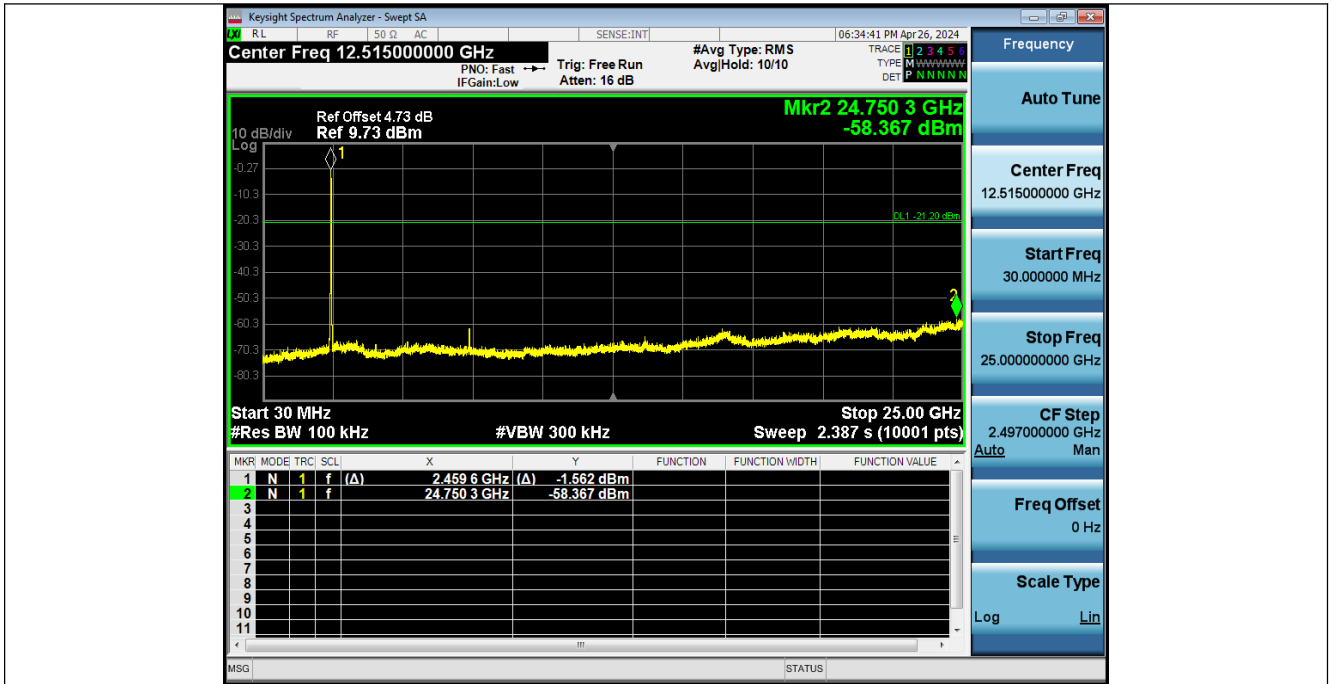
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2437



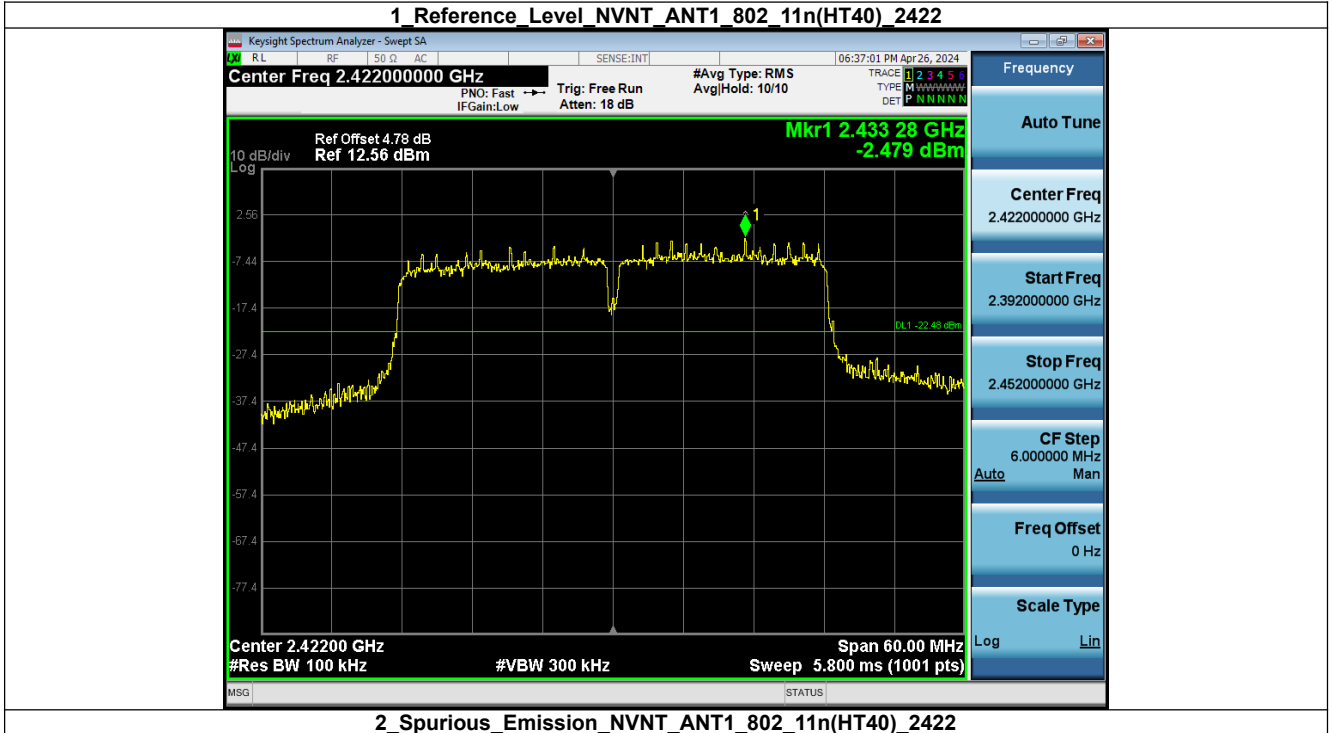
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2462



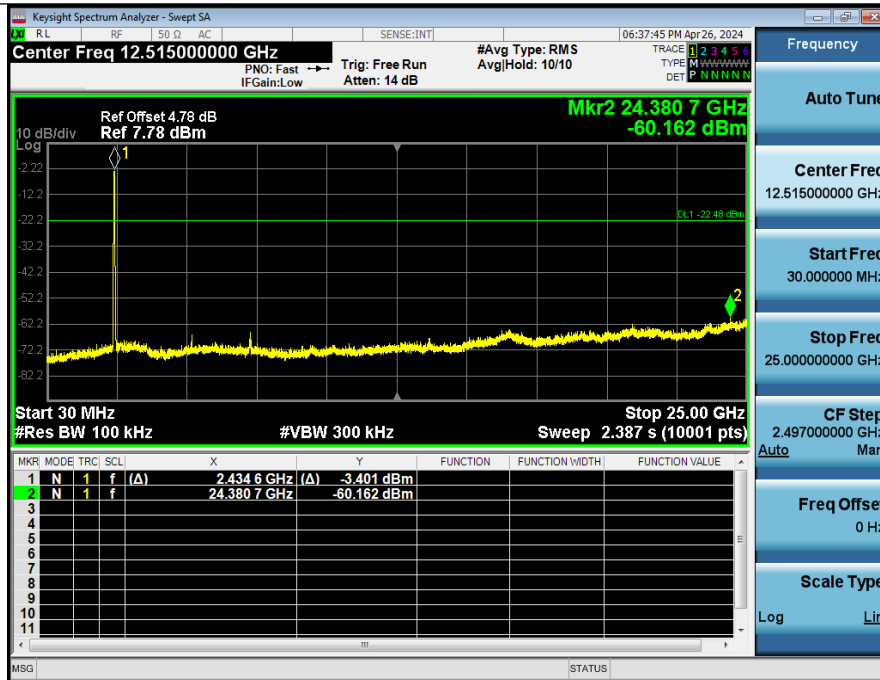
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2462



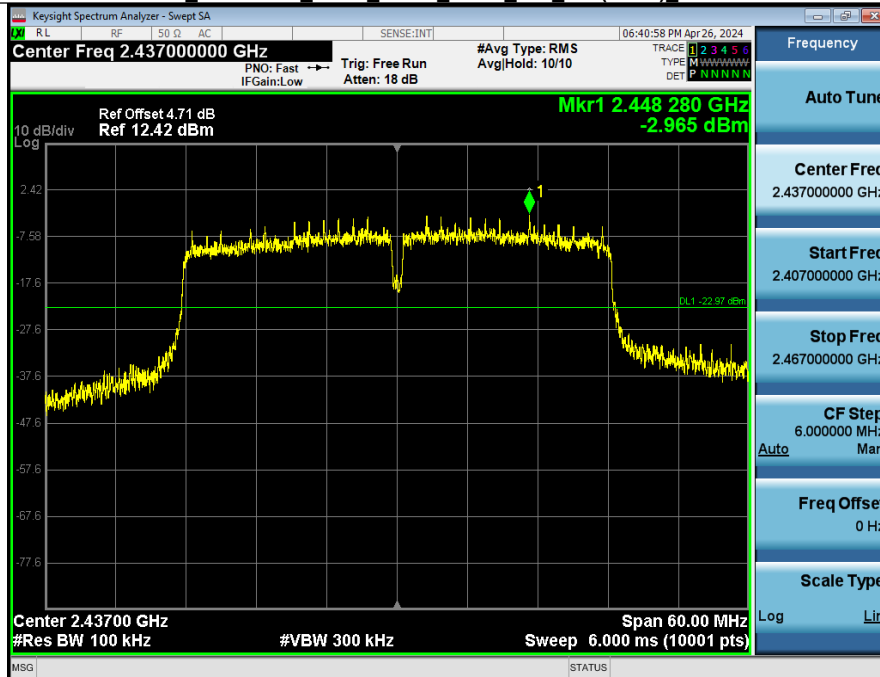
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



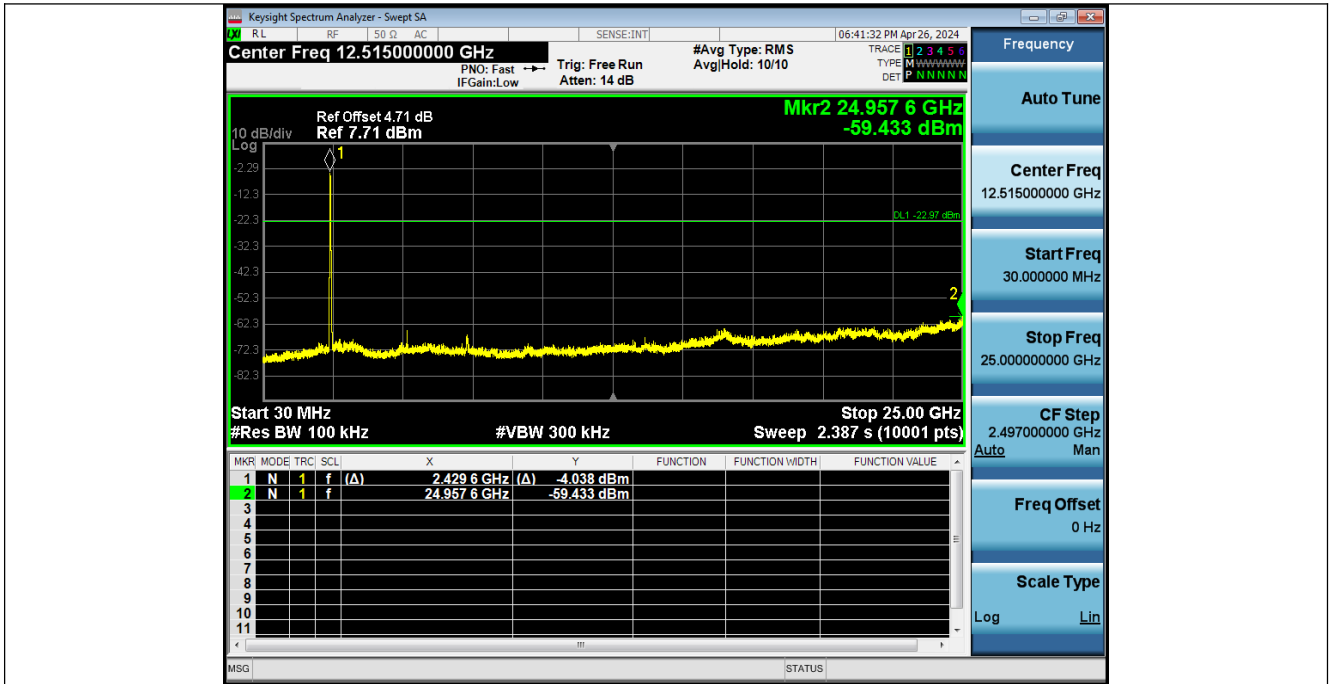
2 Spurious Emission_NVNT_ANT1_802_11n(HT40)_2422



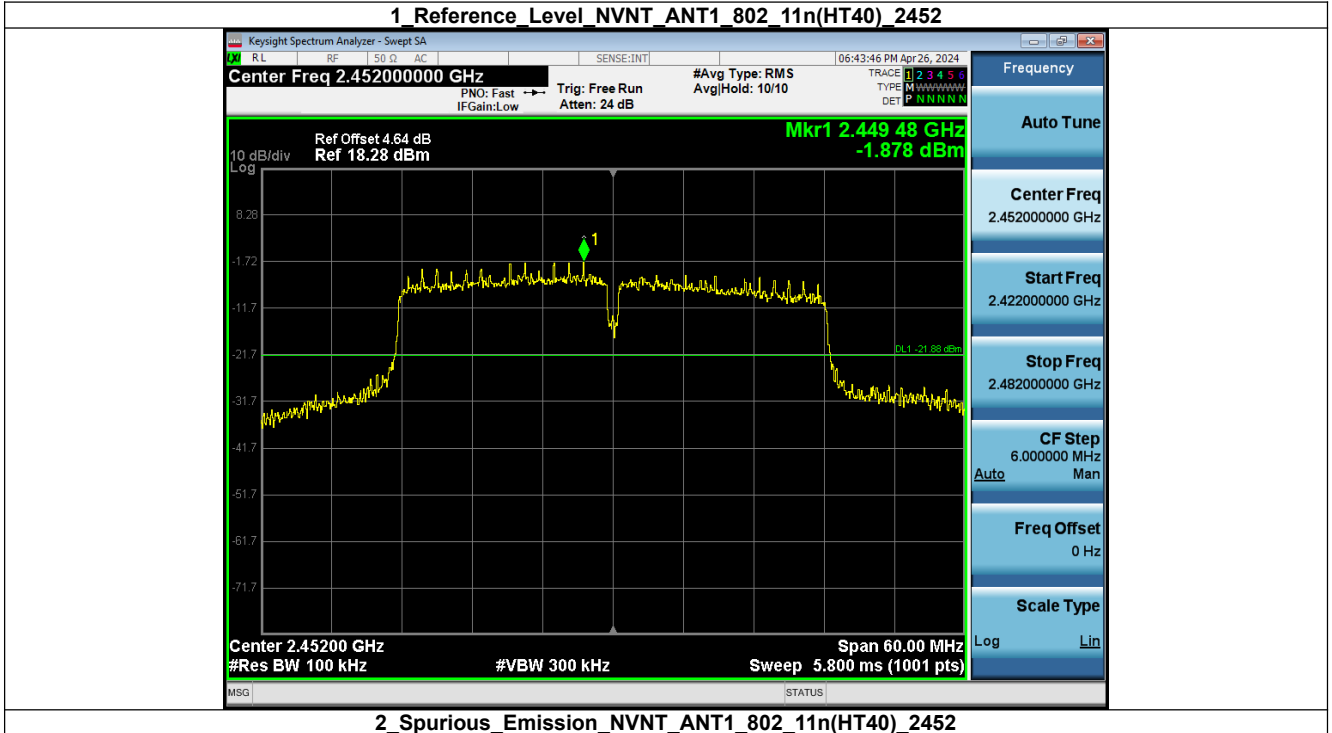
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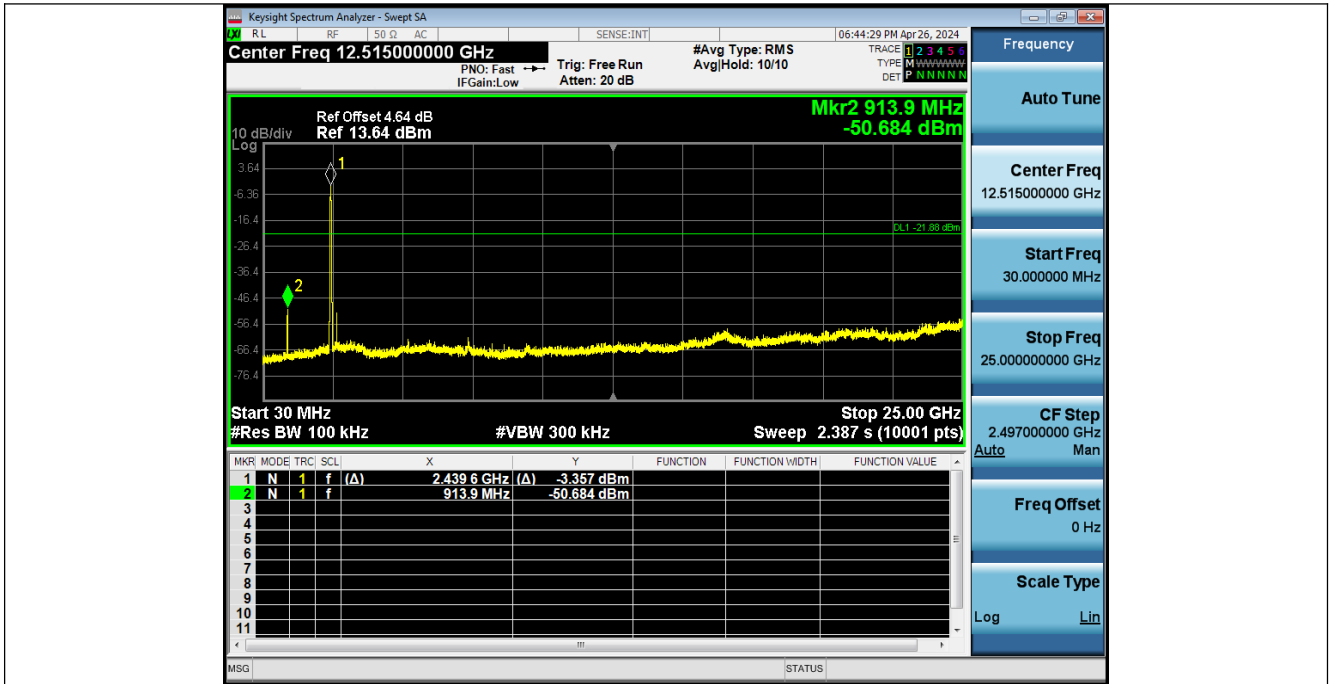


2 Spurious Emission_NVNT_ANT1_802_11n(HT40)_2437

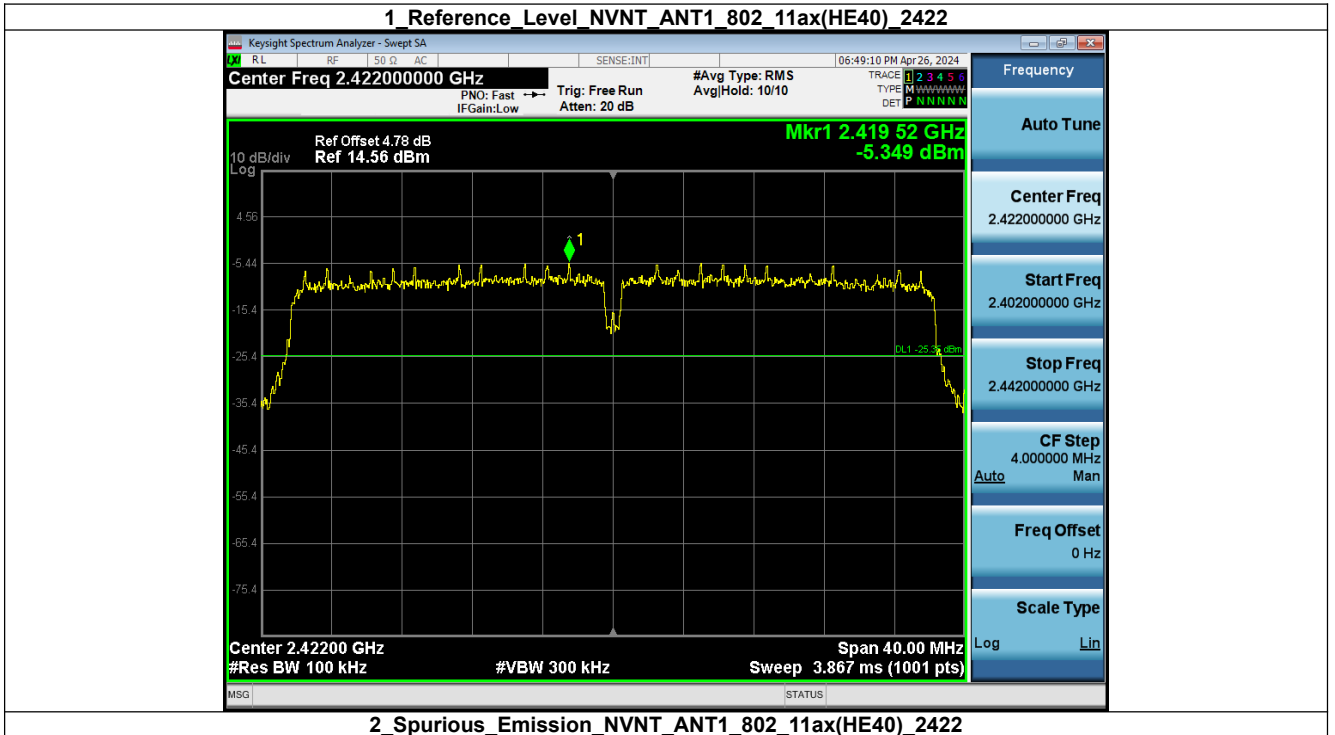


1 Reference Level NVNT_ANT1_802_11n(HT40)_2452

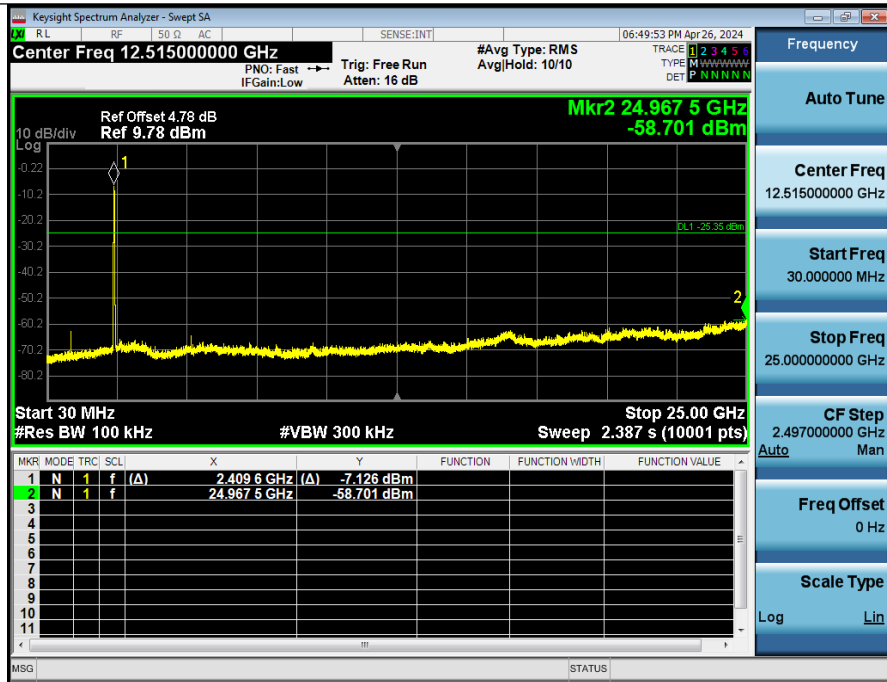




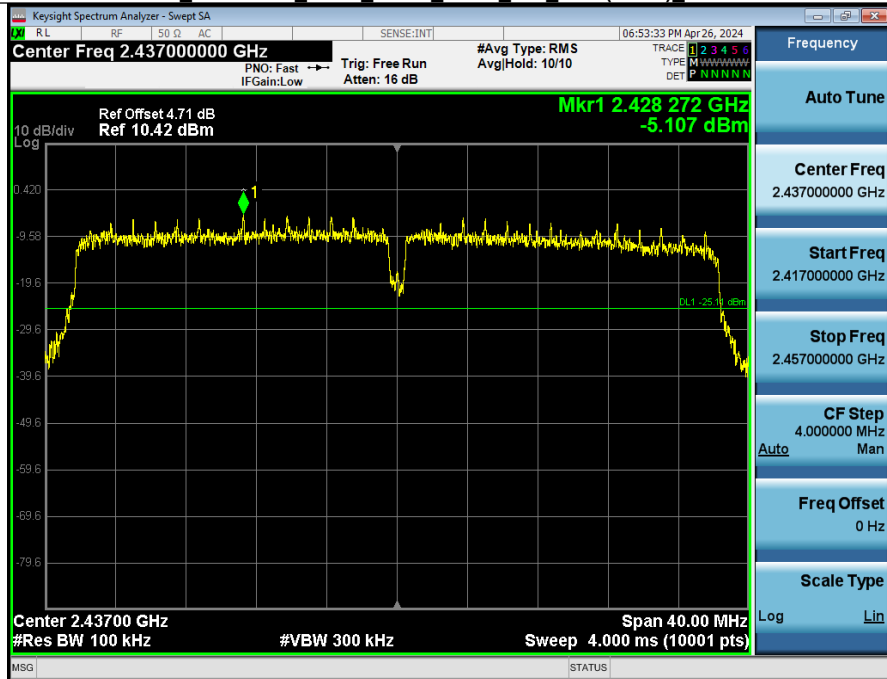
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



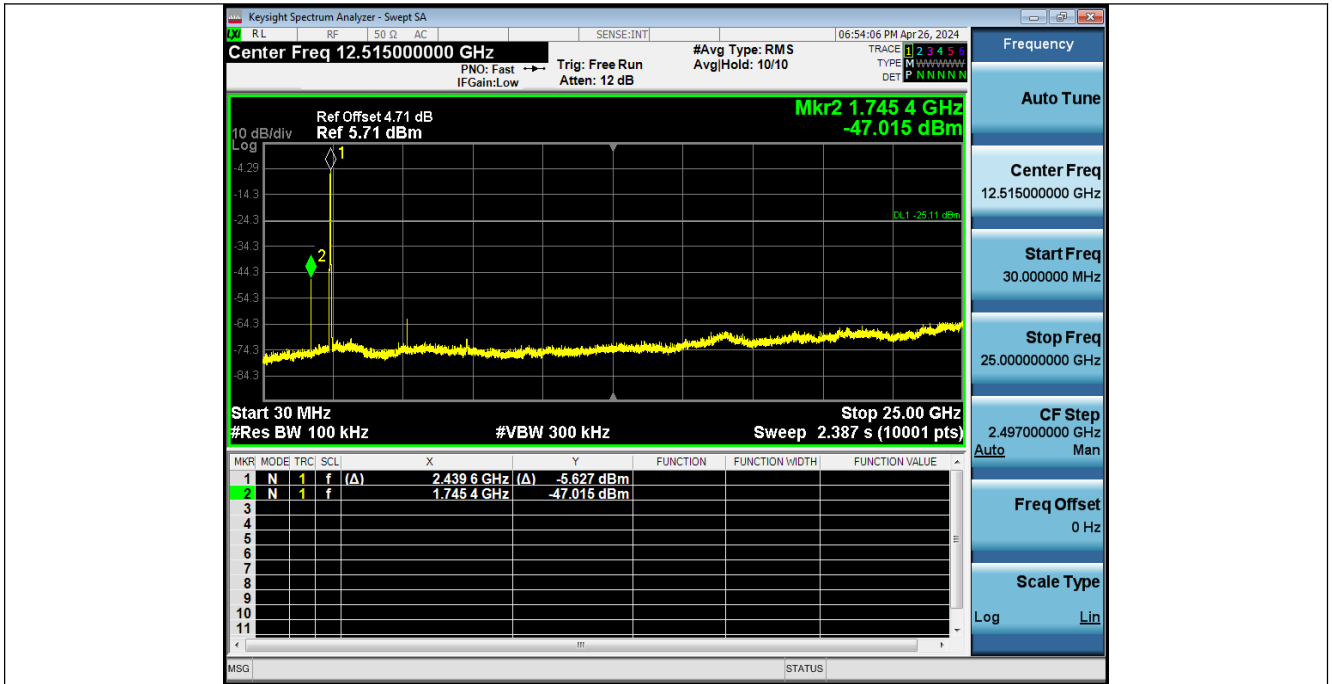
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2422



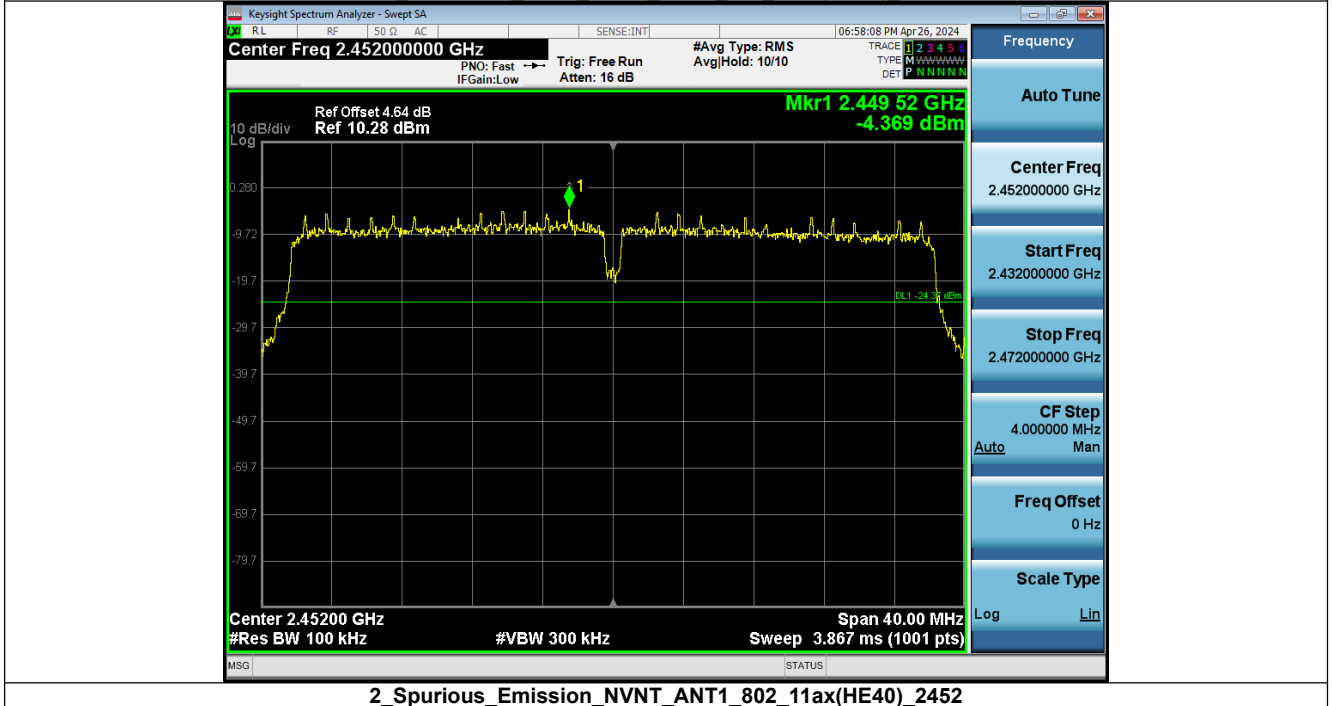
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2437



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2437



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2452

