

Appendix-ANT2

HT250729014--AM9--2.4G--FCC-1 FCC_2.4G_WIFI (Part15.247) Test Data

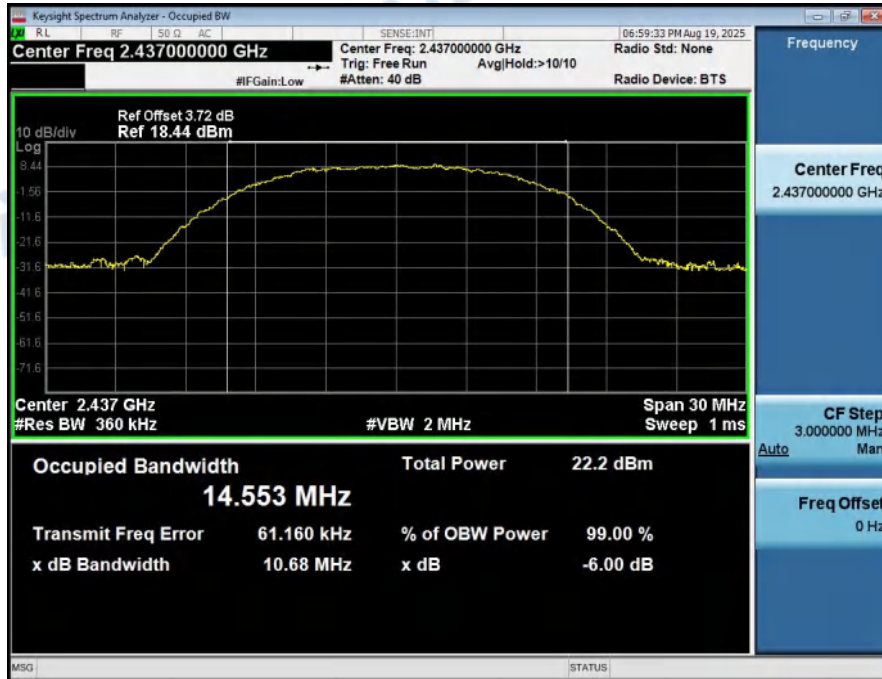
1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.48	500	Pass
NVNT	ANT1	802.11b	2437.00	10.68	500	Pass
NVNT	ANT1	802.11b	2462.00	10.68	500	Pass
NVNT	ANT1	802.11g	2412.00	16.32	500	Pass
NVNT	ANT1	802.11g	2437.00	16.32	500	Pass
NVNT	ANT1	802.11g	2462.00	16.33	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.75	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.74	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.75	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	17.54	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	17.55	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	17.52	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.43	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.32	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.41	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	36.06	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	36.19	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	36.17	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



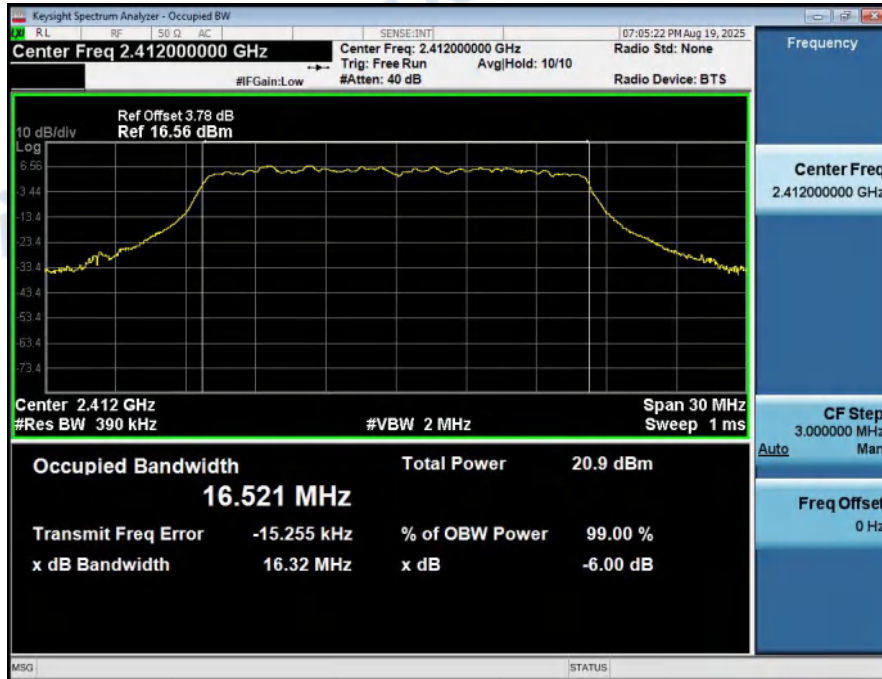
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



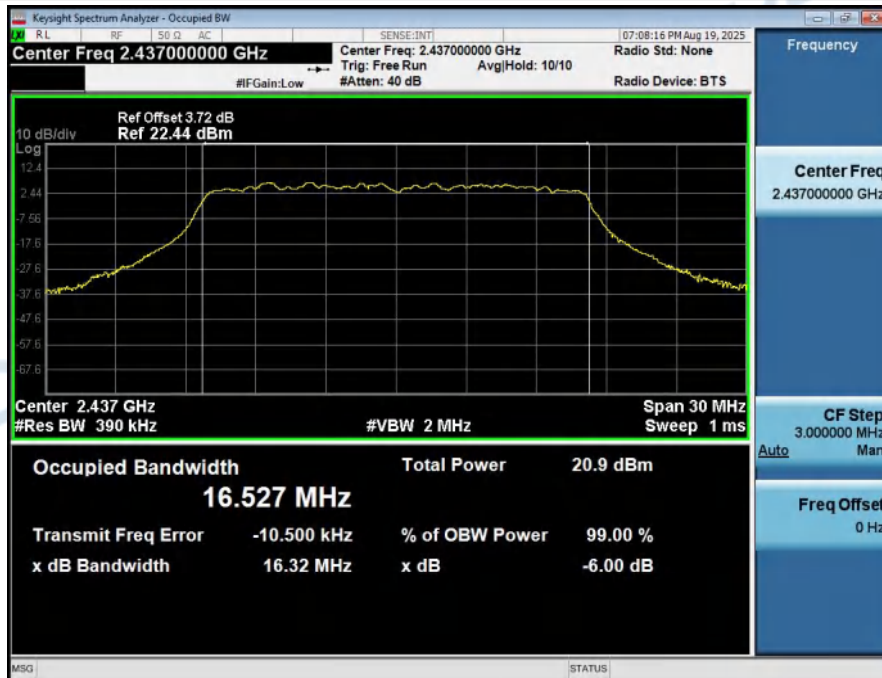
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



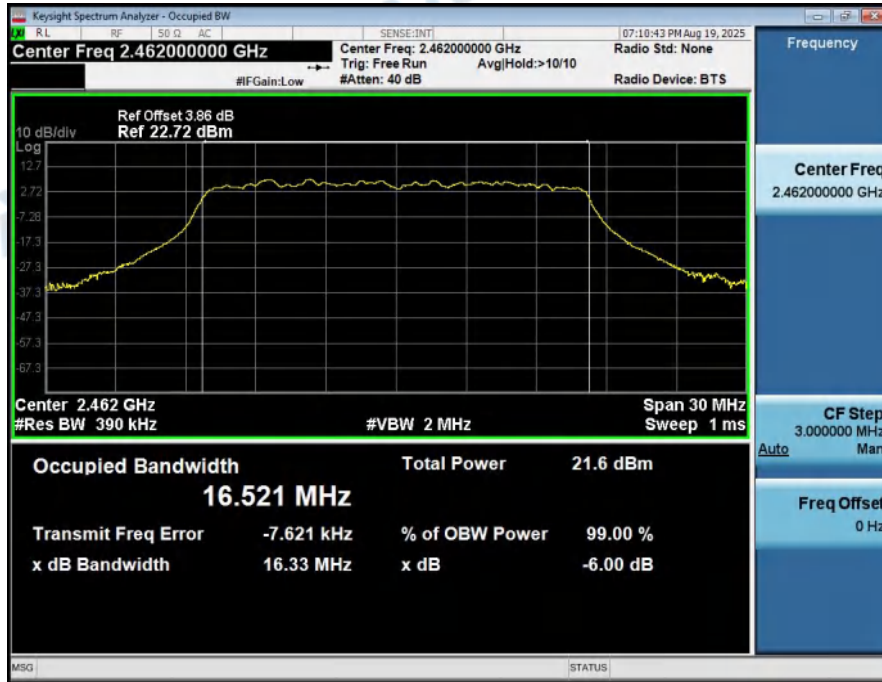
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



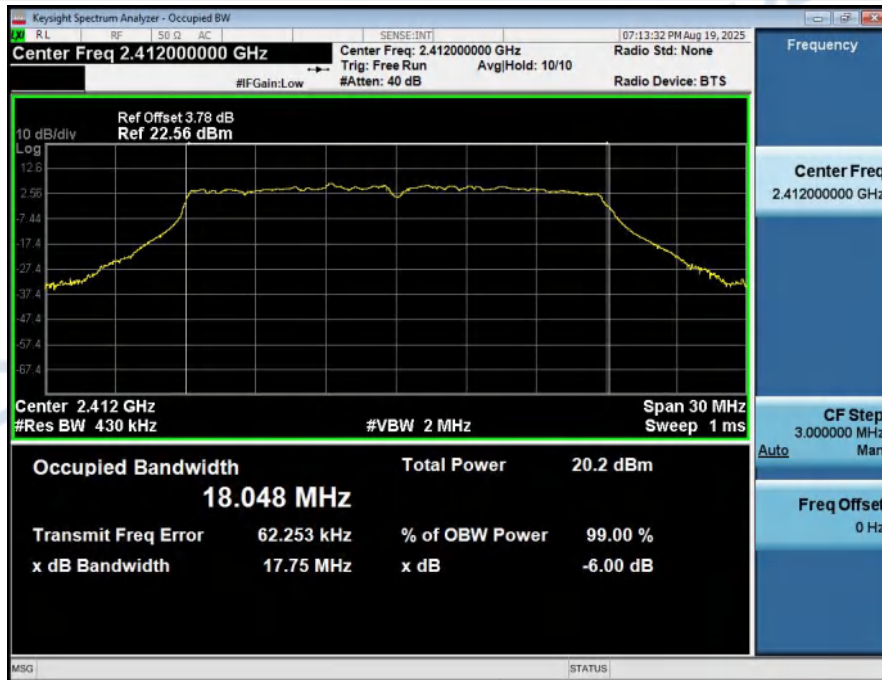
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



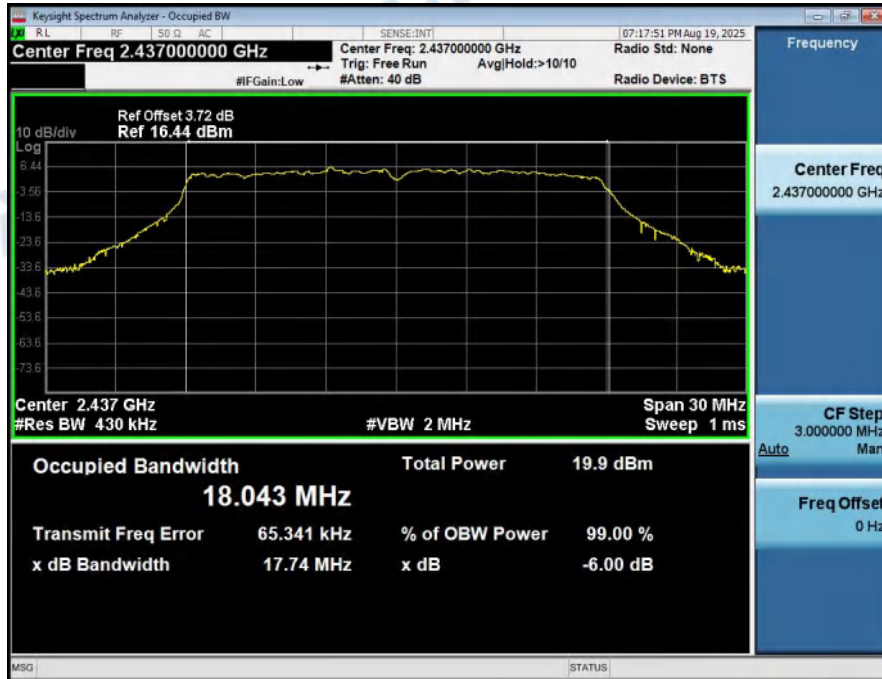
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



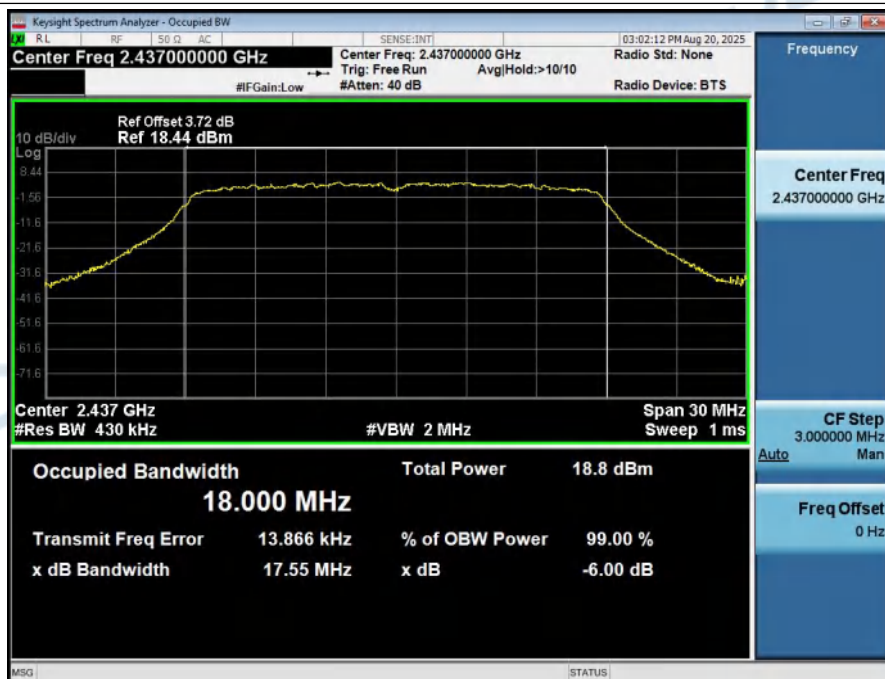
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



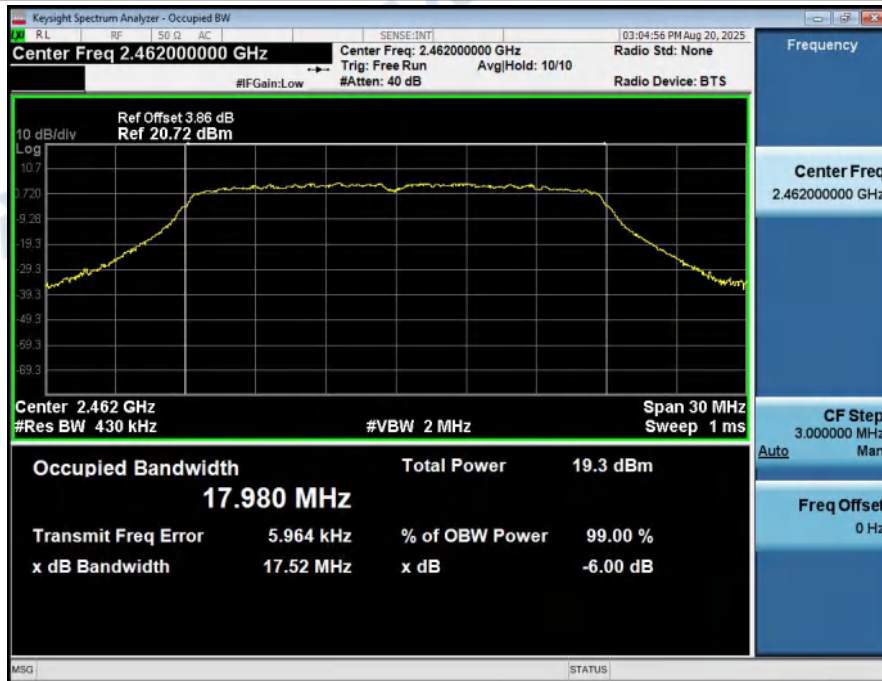
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2412



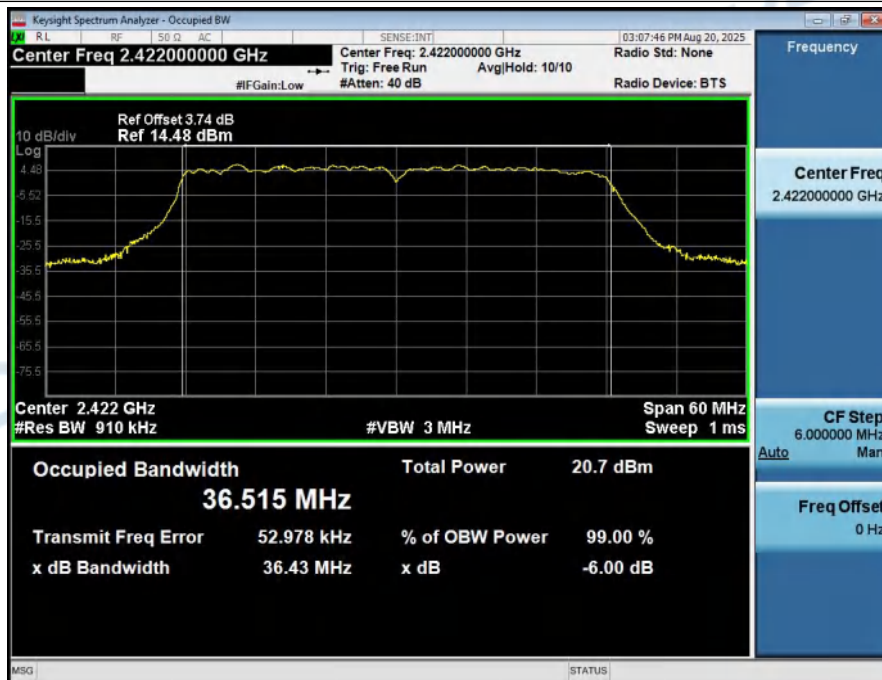
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2437



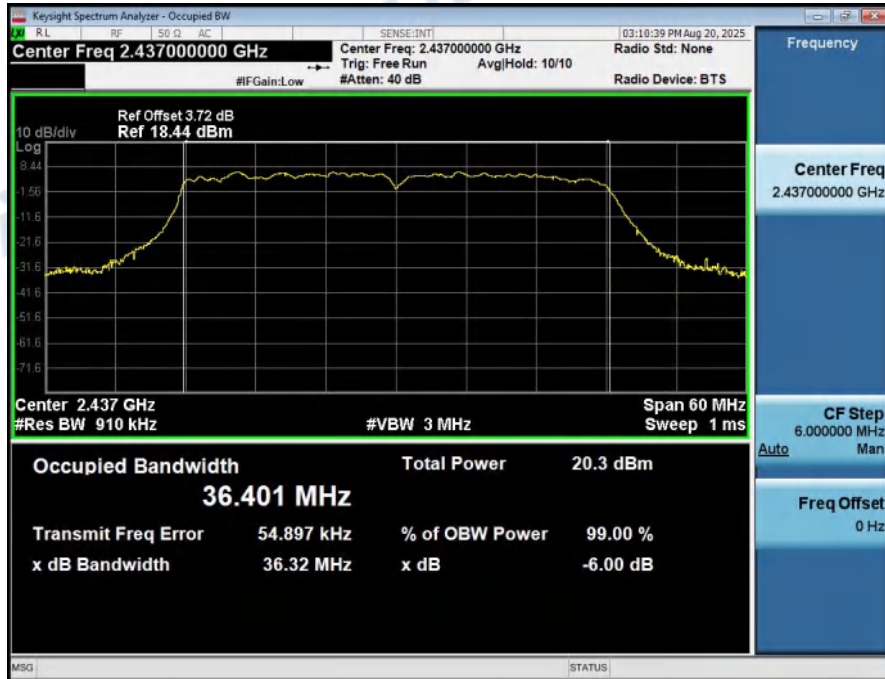
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



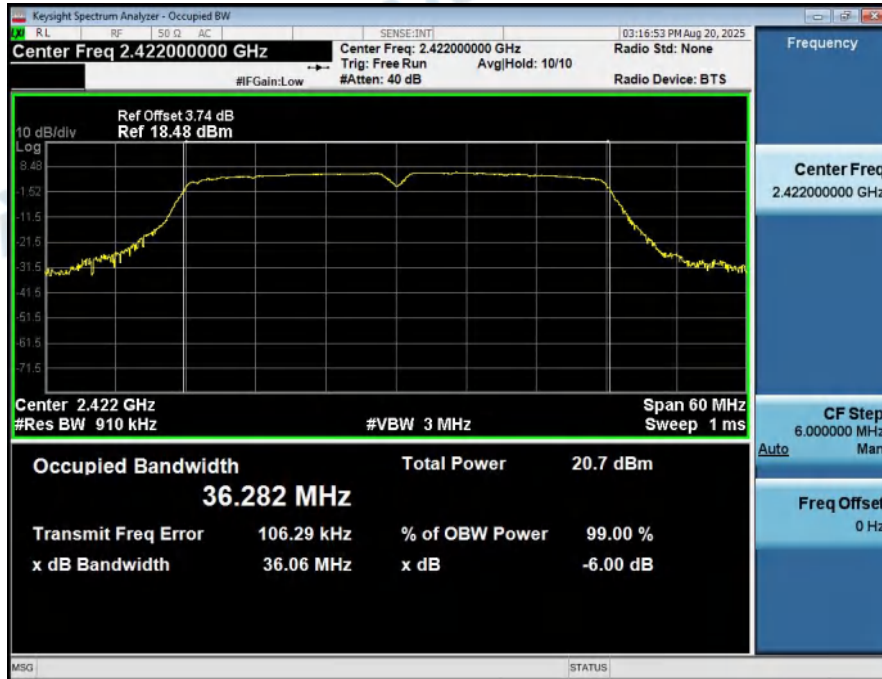
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2437



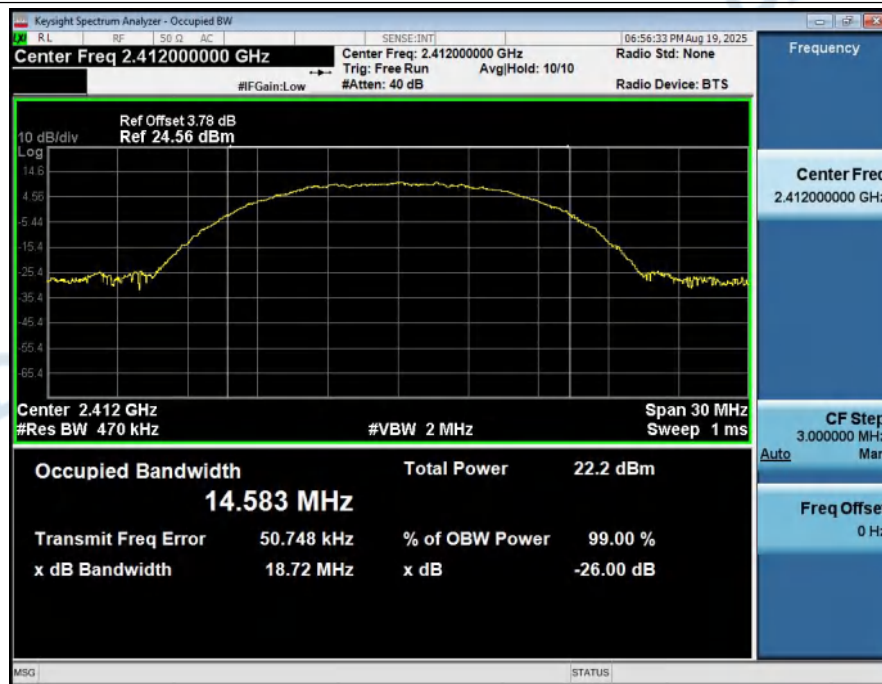
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2452



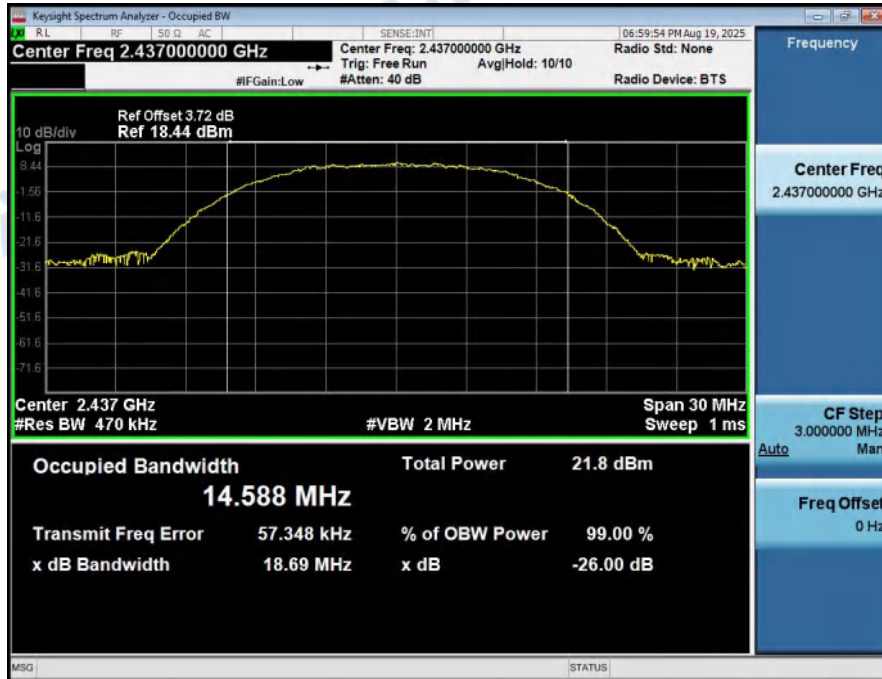
2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.583
NVNT	ANT1	802.11b	2437.00	14.588
NVNT	ANT1	802.11b	2462.00	14.575
NVNT	ANT1	802.11g	2412.00	16.591
NVNT	ANT1	802.11g	2437.00	16.592
NVNT	ANT1	802.11g	2462.00	16.574
NVNT	ANT1	802.11n(HT20)	2412.00	18.112
NVNT	ANT1	802.11n(HT20)	2437.00	18.110
NVNT	ANT1	802.11n(HT20)	2462.00	18.101
NVNT	ANT1	802.11ax(HE20)	2412.00	18.161
NVNT	ANT1	802.11ax(HE20)	2437.00	18.157
NVNT	ANT1	802.11ax(HE20)	2462.00	18.133
NVNT	ANT1	802.11n(HT40)	2422.00	36.618
NVNT	ANT1	802.11n(HT40)	2437.00	36.472
NVNT	ANT1	802.11n(HT40)	2452.00	36.618
NVNT	ANT1	802.11ax(HE40)	2422.00	36.292
NVNT	ANT1	802.11ax(HE40)	2437.00	36.296
NVNT	ANT1	802.11ax(HE40)	2452.00	36.257

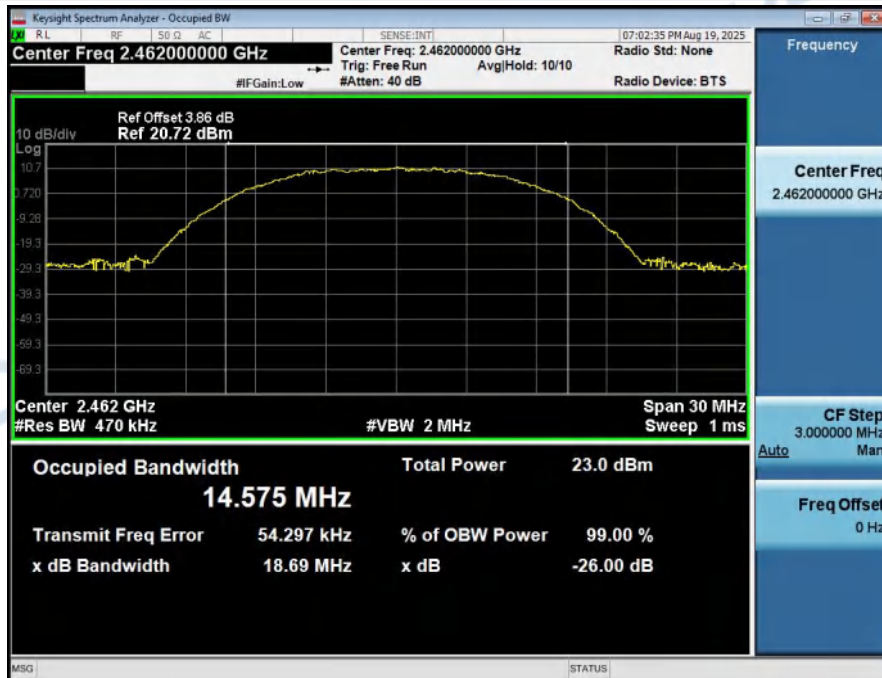
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



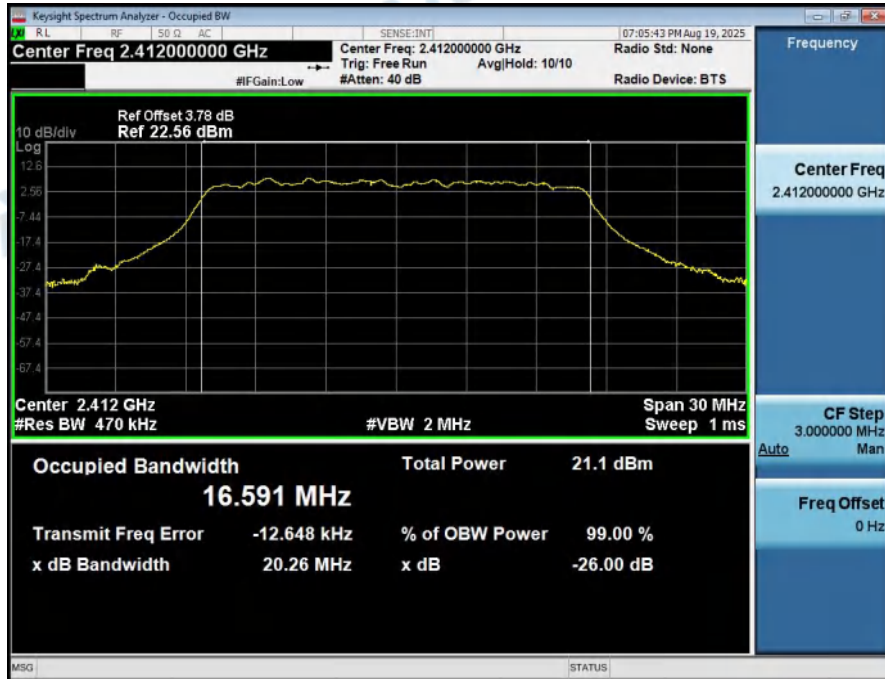
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



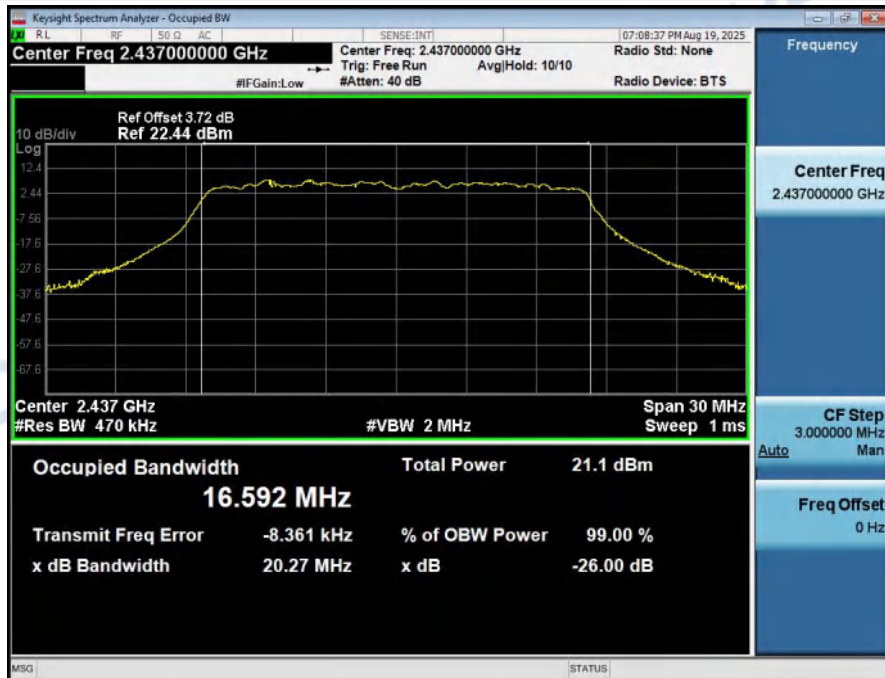
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



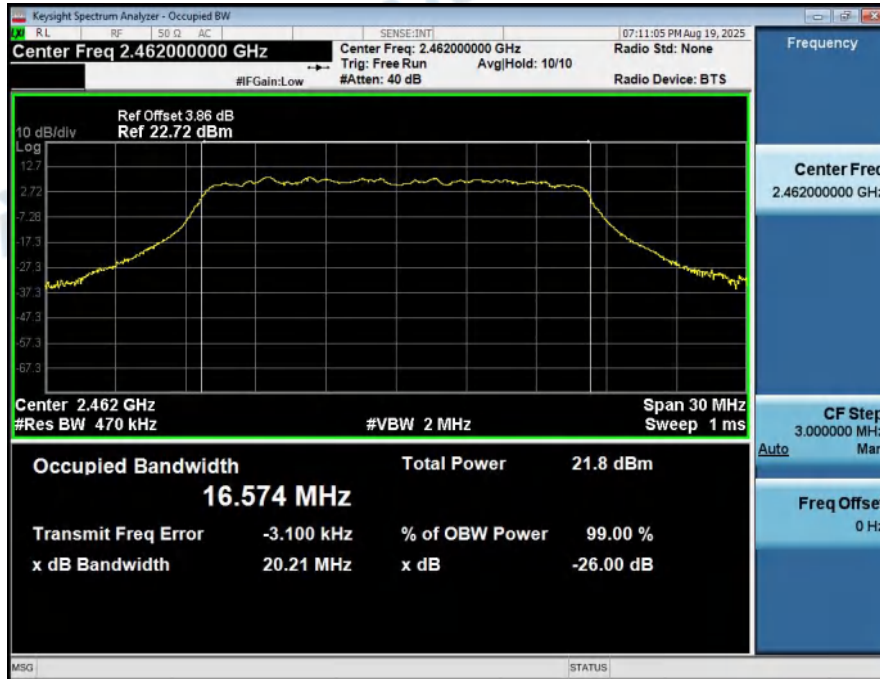
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



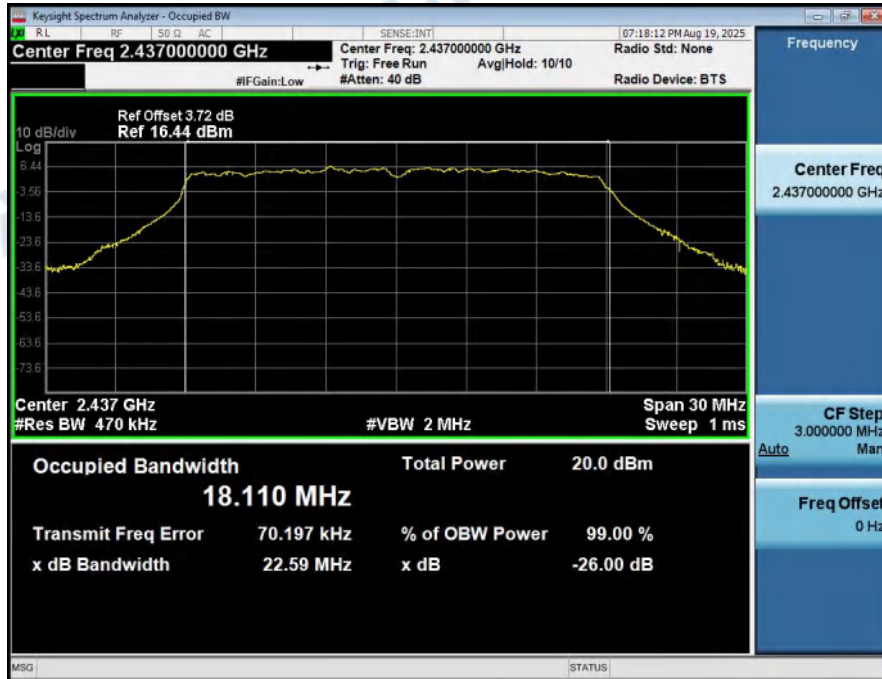
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



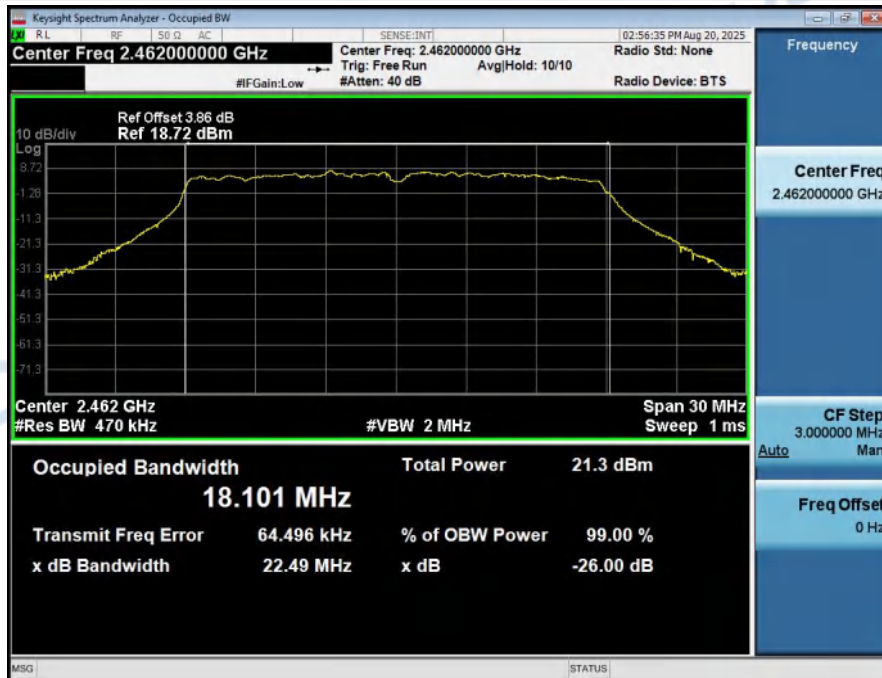
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



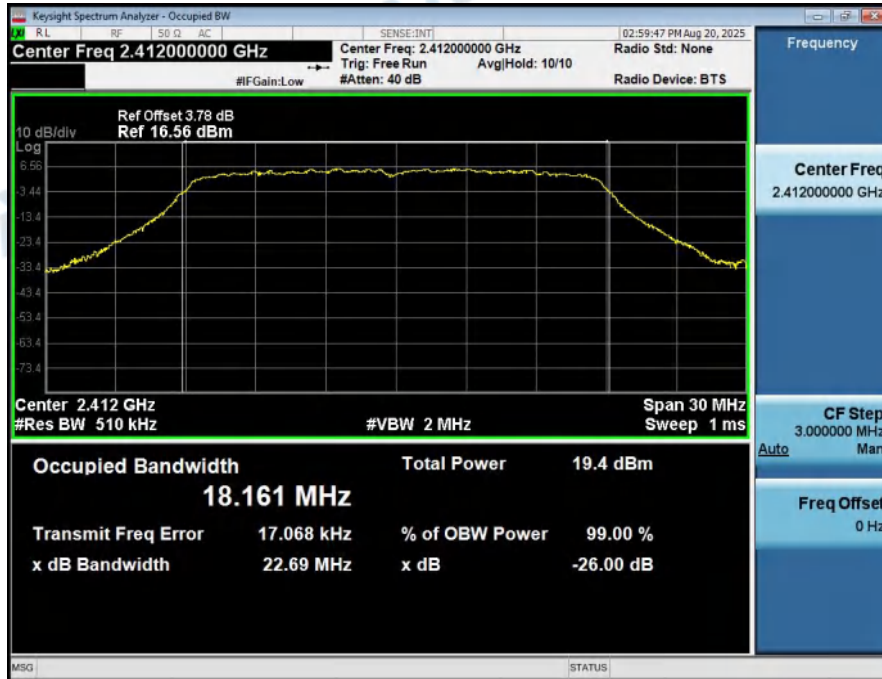
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



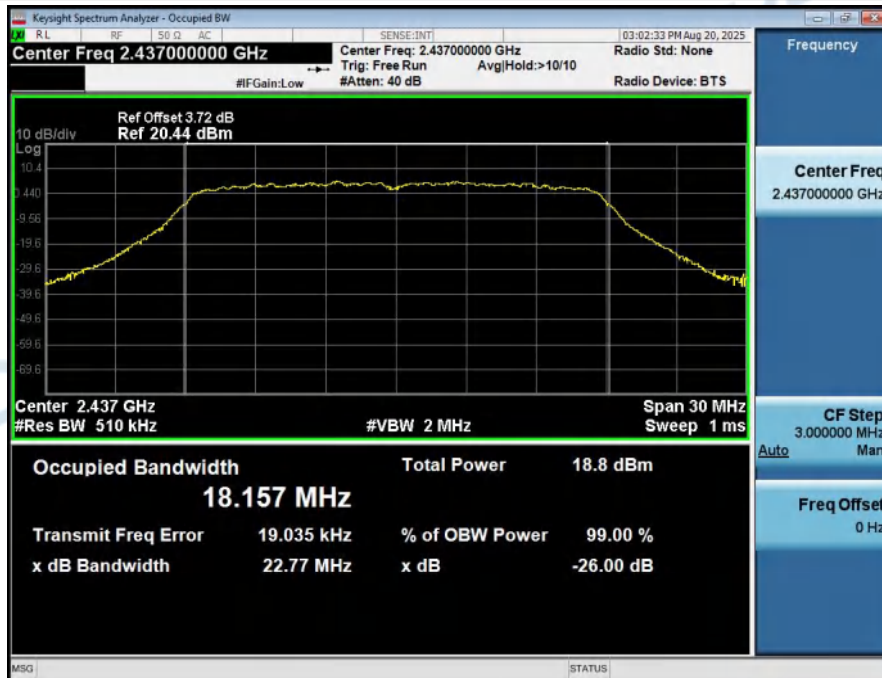
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



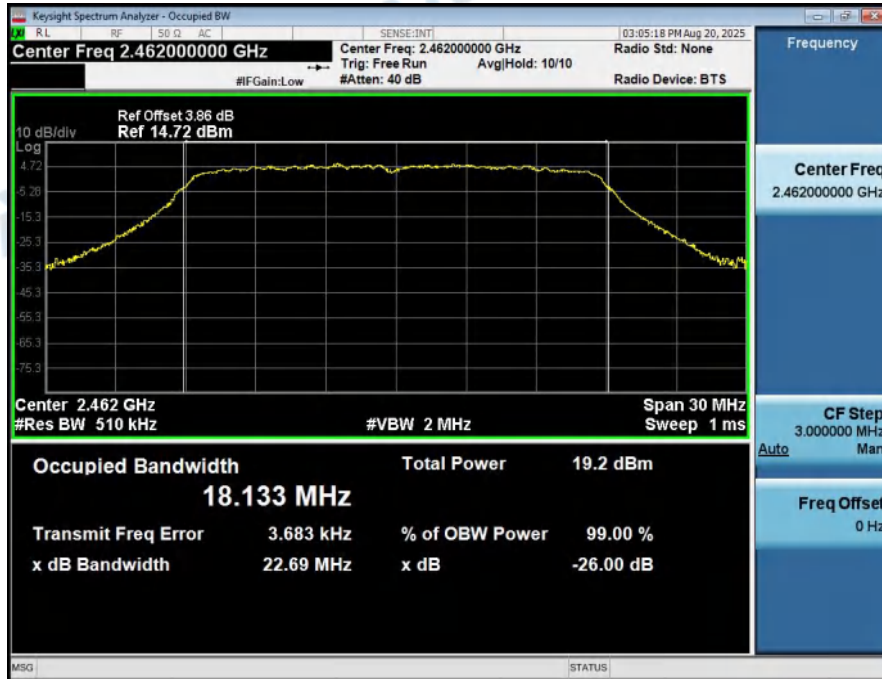
99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2437



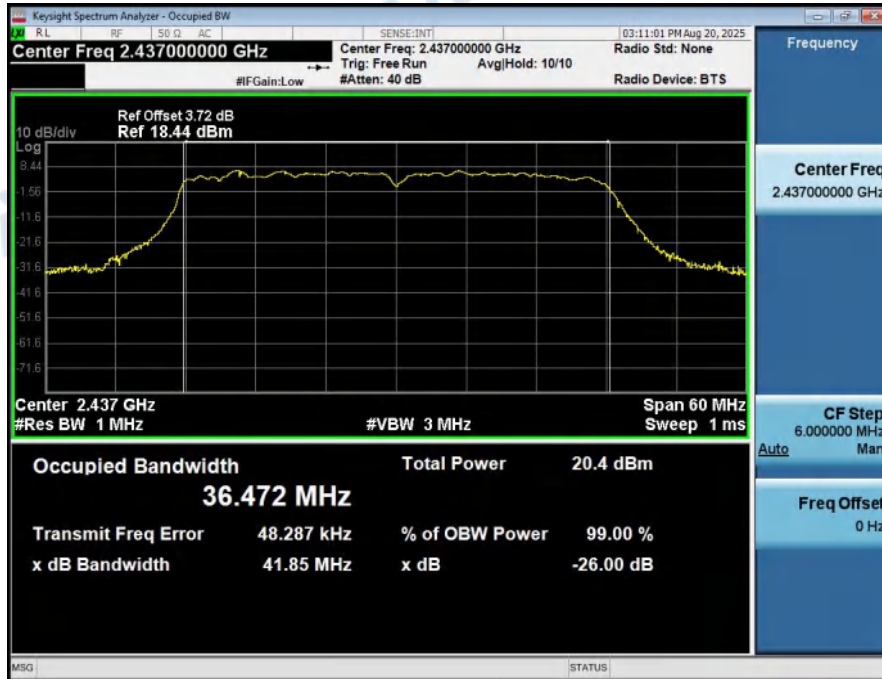
99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



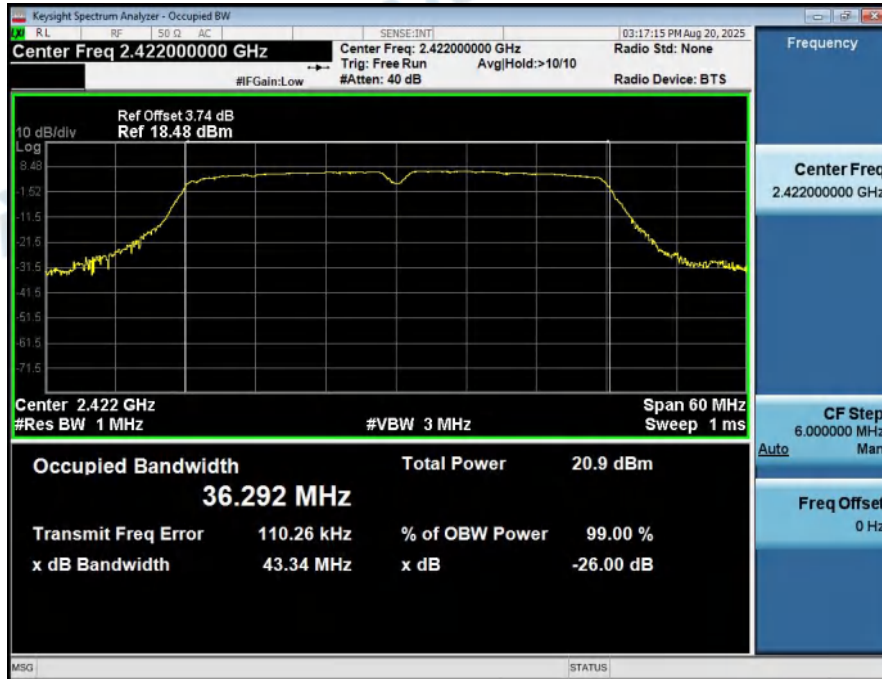
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



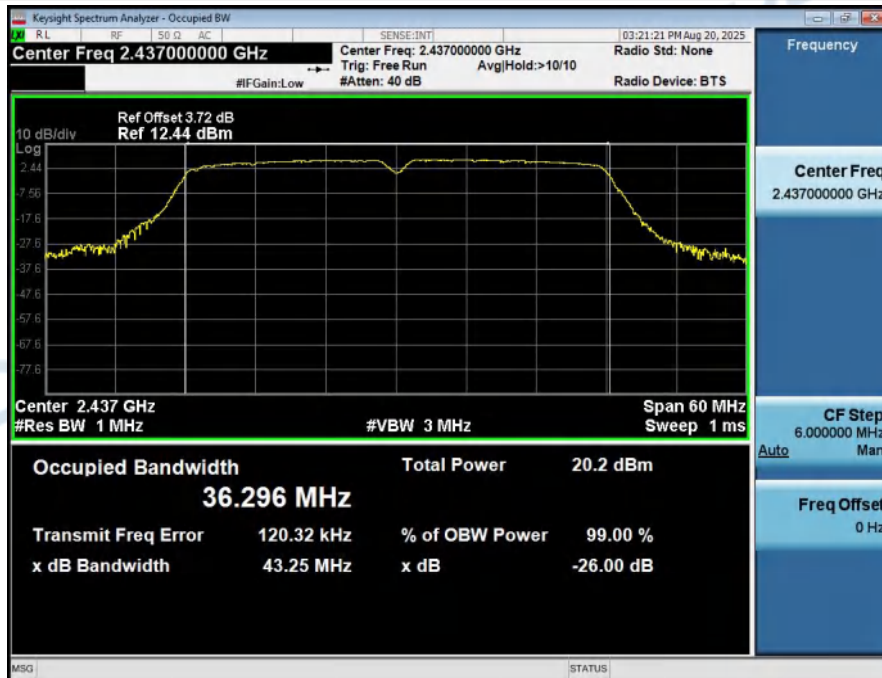
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



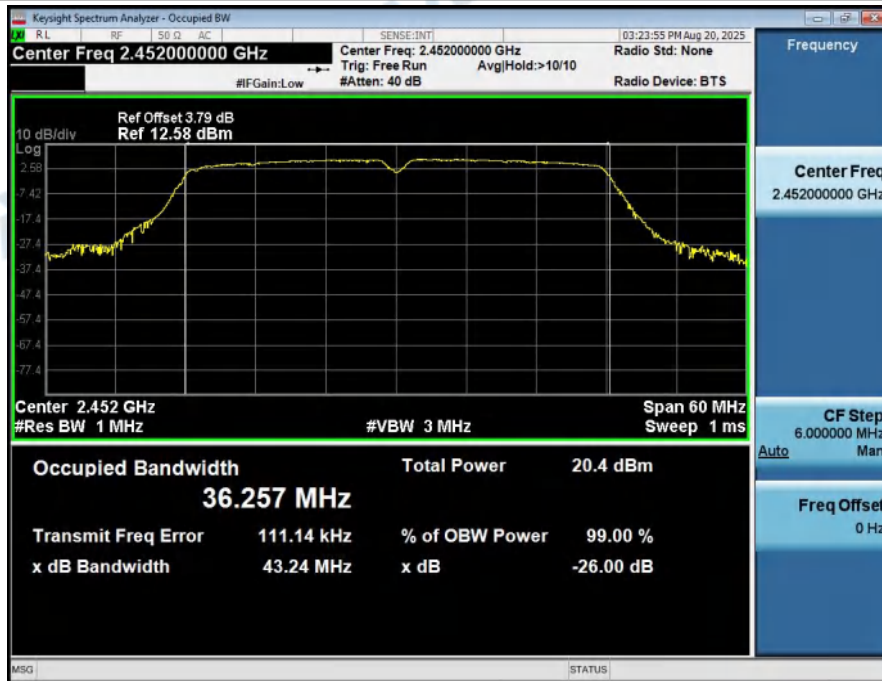
99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422



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	64.79	1.89
NVNT	ANT1	802.11b	2437.00	64.79	1.89
NVNT	ANT1	802.11b	2462.00	64.79	1.89
NVNT	ANT1	802.11g	2412.00	26.47	5.77
NVNT	ANT1	802.11g	2437.00	29.41	5.31
NVNT	ANT1	802.11g	2462.00	24.24	6.15
NVNT	ANT1	802.11n(HT20)	2412.00	24.24	6.15
NVNT	ANT1	802.11n(HT20)	2437.00	24.24	6.15
NVNT	ANT1	802.11n(HT20)	2462.00	27.27	5.64
NVNT	ANT1	802.11ax(HE20)	2412.00	73.03	1.36
NVNT	ANT1	802.11ax(HE20)	2437.00	70.79	1.50
NVNT	ANT1	802.11ax(HE20)	2462.00	71.59	1.45
NVNT	ANT1	802.11n(HT40)	2422.00	16.67	7.78
NVNT	ANT1	802.11n(HT40)	2437.00	16.67	7.78
NVNT	ANT1	802.11n(HT40)	2452.00	16.67	7.78
NVNT	ANT1	802.11ax(HE40)	2422.00	56.14	2.51
NVNT	ANT1	802.11ax(HE40)	2437.00	57.89	2.37
NVNT	ANT1	802.11ax(HE40)	2452.00	57.89	2.37

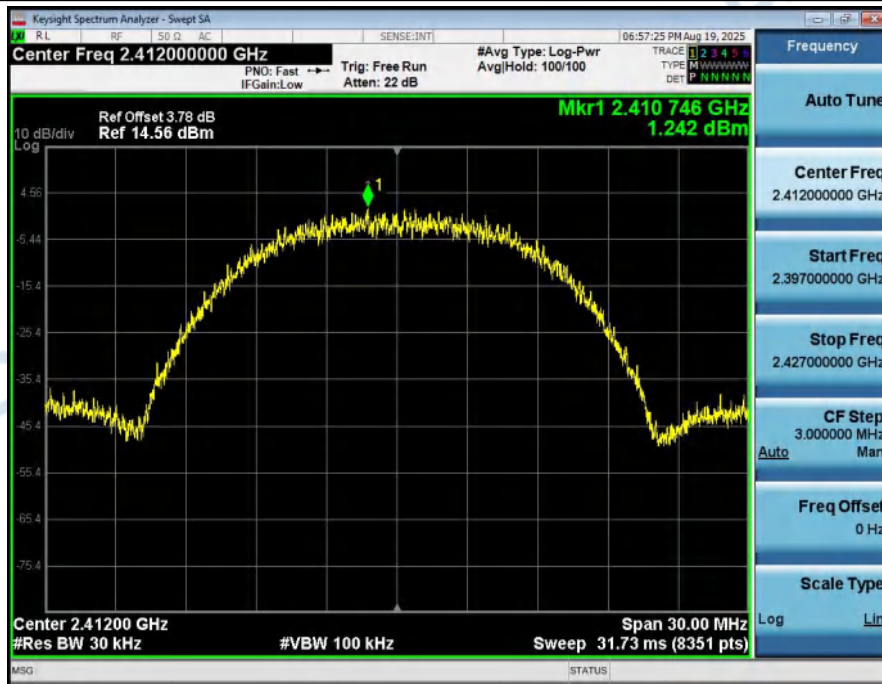
4. MAX. Output Power

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	21.81	N/A	21.81	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	21.45	N/A	21.45	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	22.62	N/A	22.62	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	21.15	N/A	21.15	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	20.95	N/A	20.95	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	21.61	N/A	21.61	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	20.21	N/A	20.21	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	19.98	N/A	19.98	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	20.89	N/A	20.89	30	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	Peak	18.90	N/A	18.90	30	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	Peak	18.40	N/A	18.40	30	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	Peak	18.97	N/A	18.97	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	20.02	N/A	20.02	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	19.68	N/A	19.68	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	20.16	N/A	20.16	30	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	Peak	19.24	N/A	19.24	30	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	Peak	18.73	N/A	18.73	30	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	Peak	18.99	N/A	18.99	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.24	8	Pass
NVNT	ANT1	802.11b	2437.00	0.92	8	Pass
NVNT	ANT1	802.11b	2462.00	2.04	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.99	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.24	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.57	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.69	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-2.18	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.06	8	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	-3.69	8	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	-4.40	8	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	-3.64	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-3.94	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-4.24	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-3.91	8	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	-6.00	8	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	-6.71	8	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	-6.14	8	Pass

Power_Spectral_Density_NVNT_ANT1_802_11b_2412



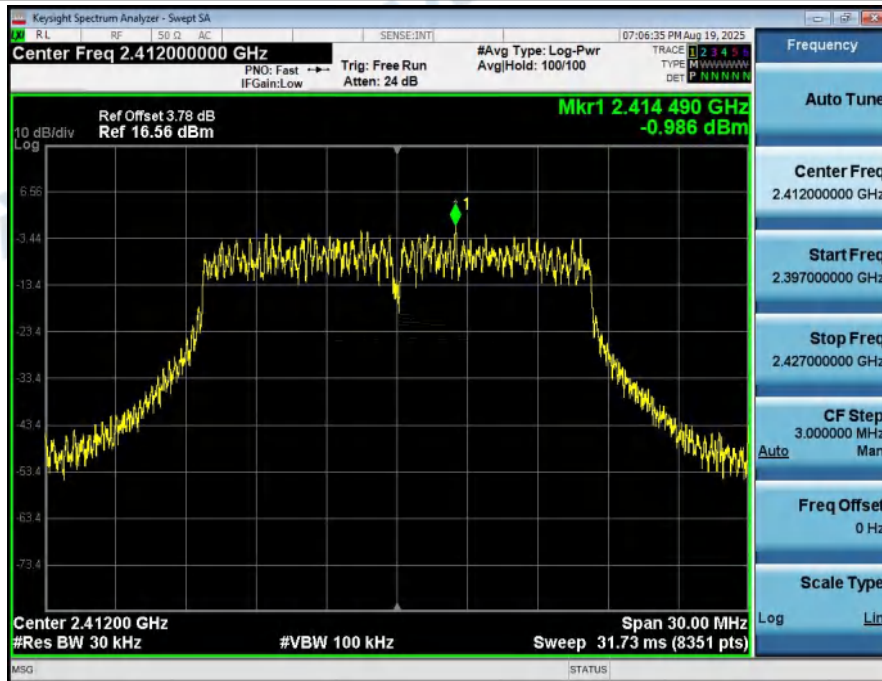
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



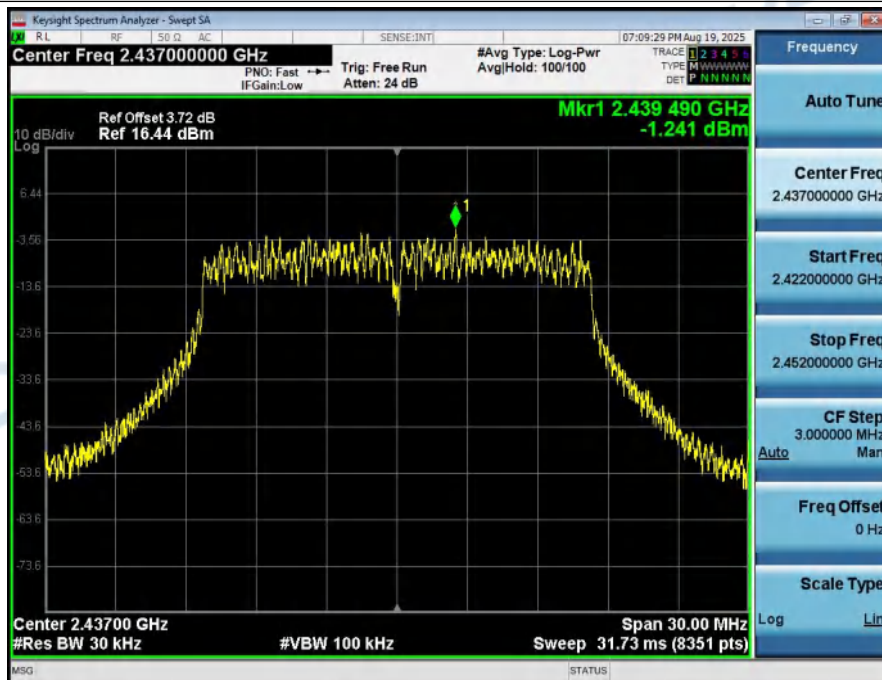
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



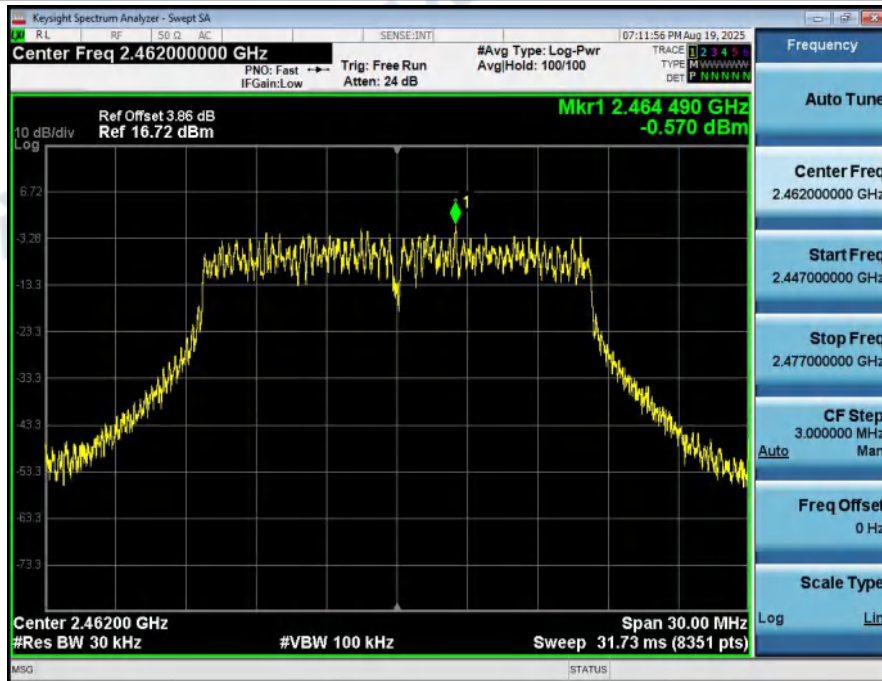
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



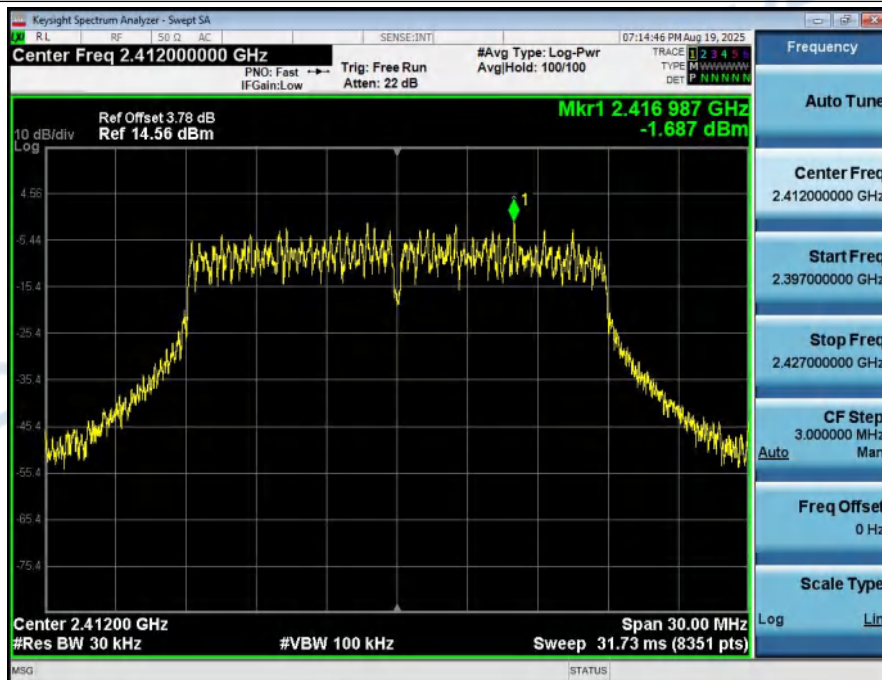
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



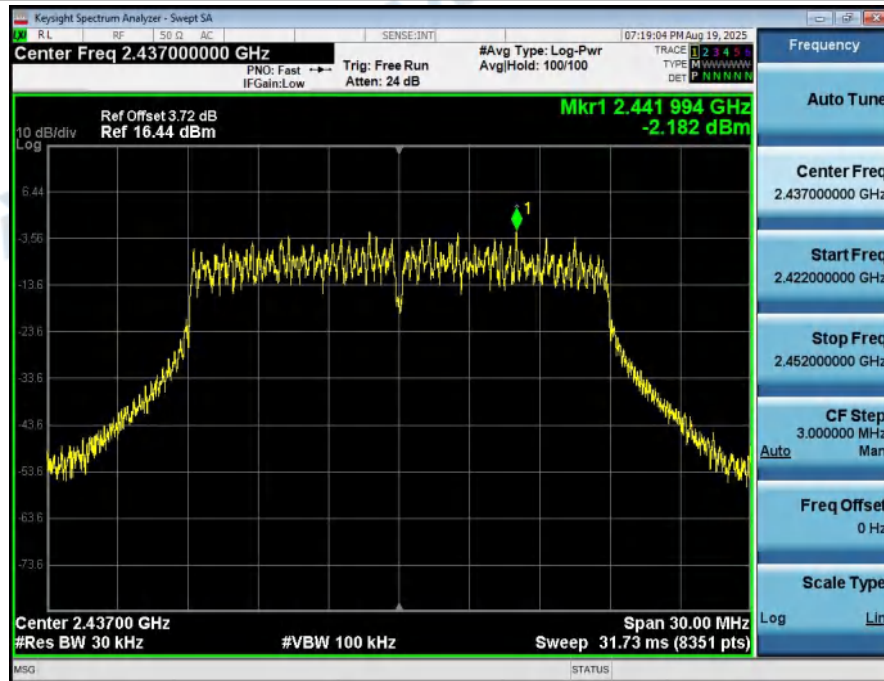
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



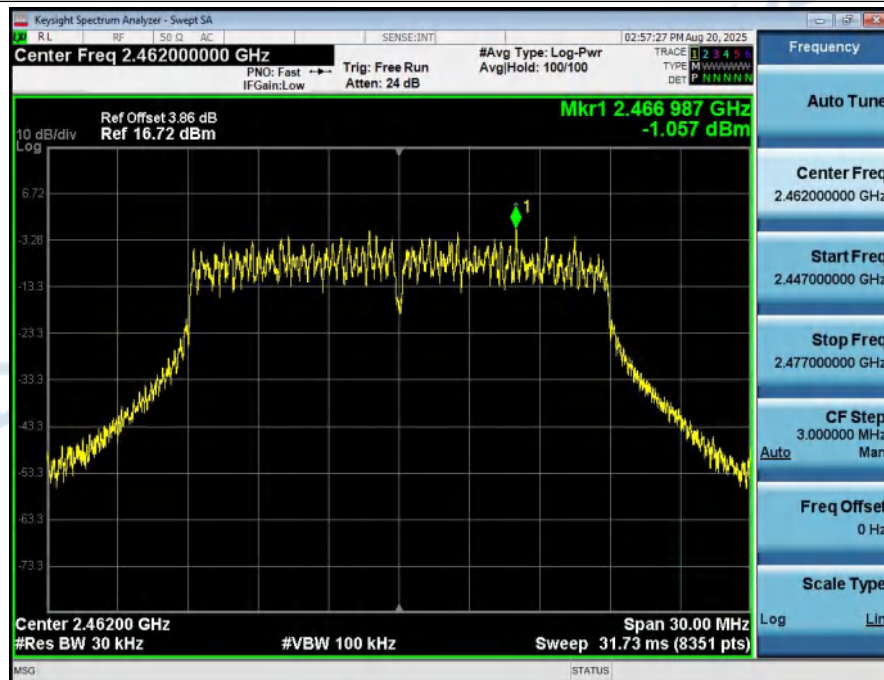
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



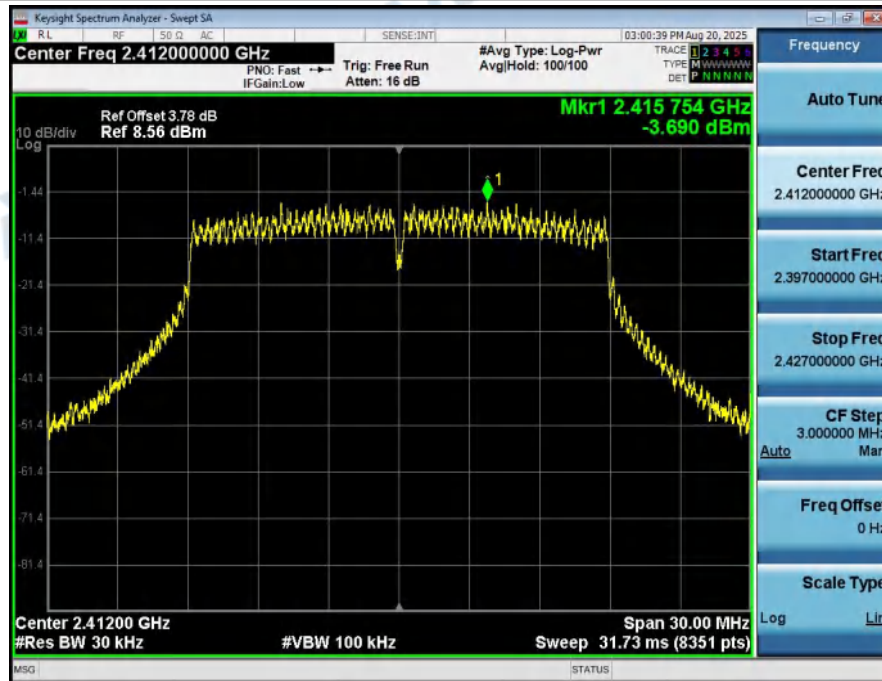
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



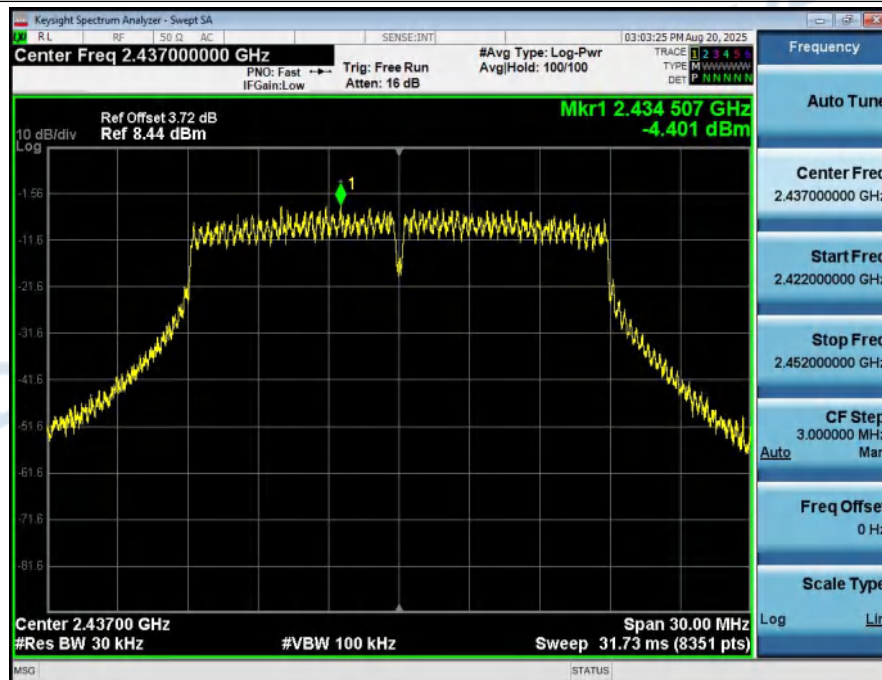
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



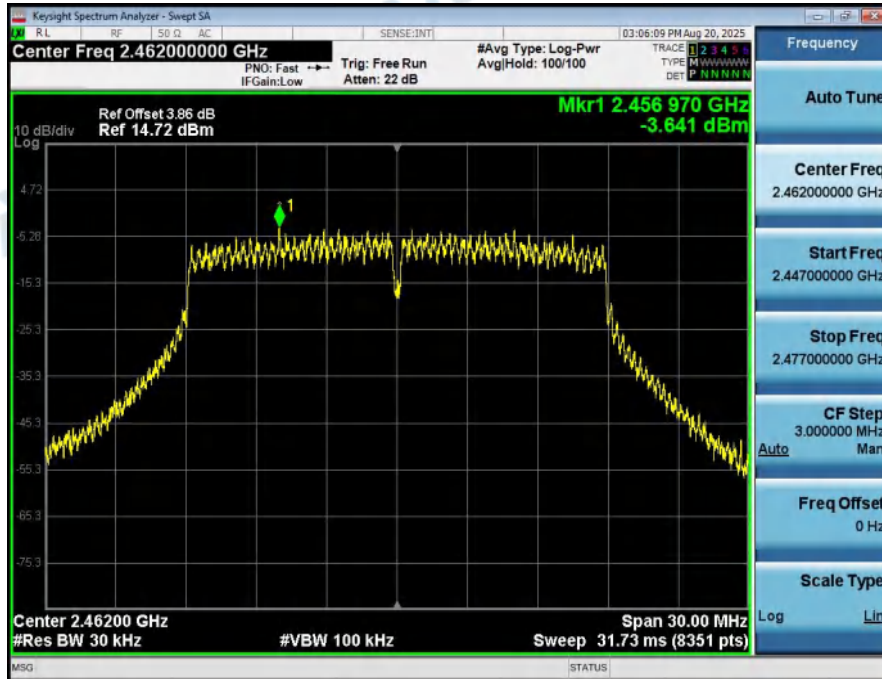
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_2412



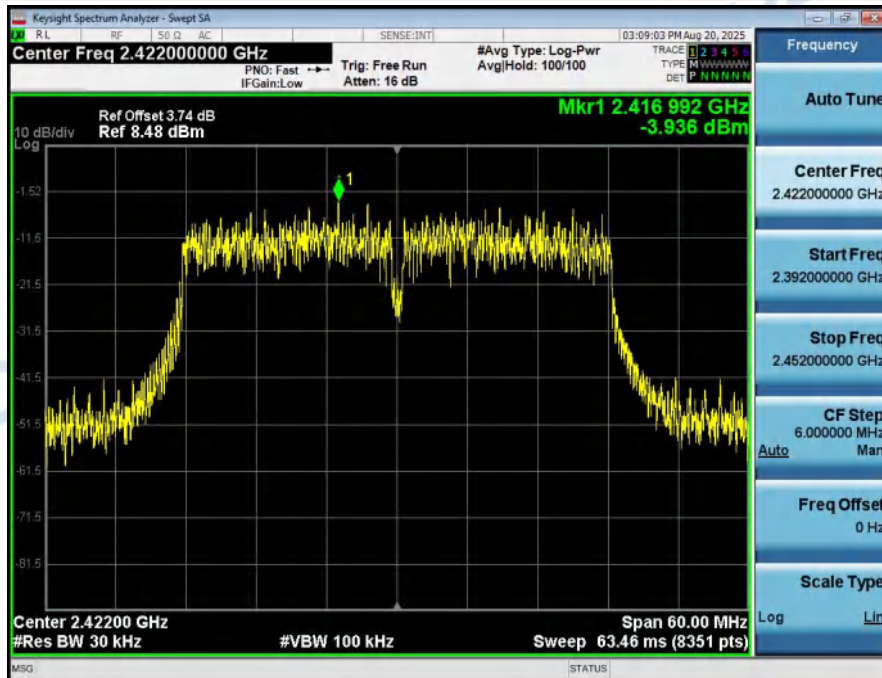
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_2437



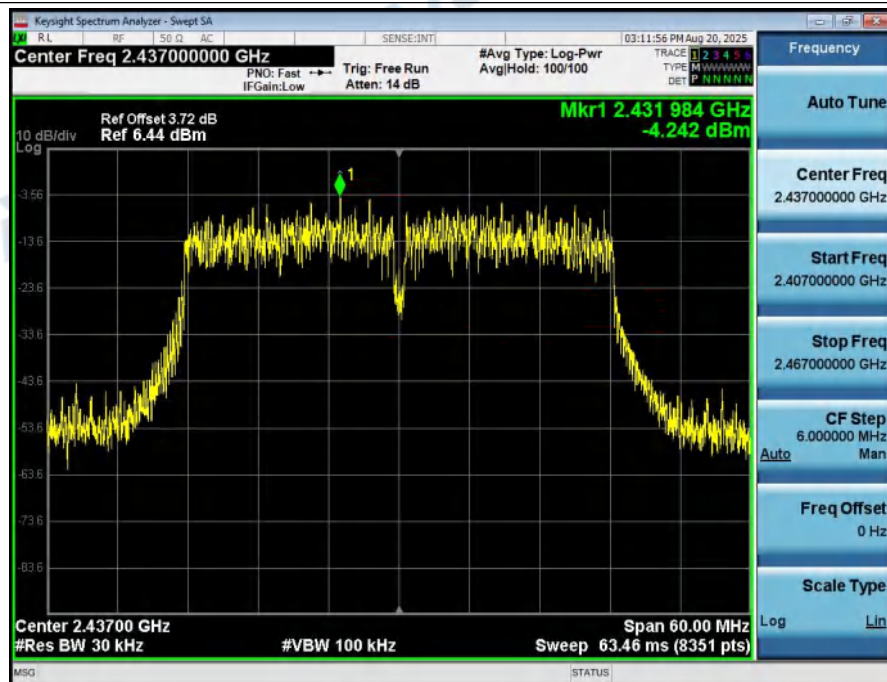
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_2462



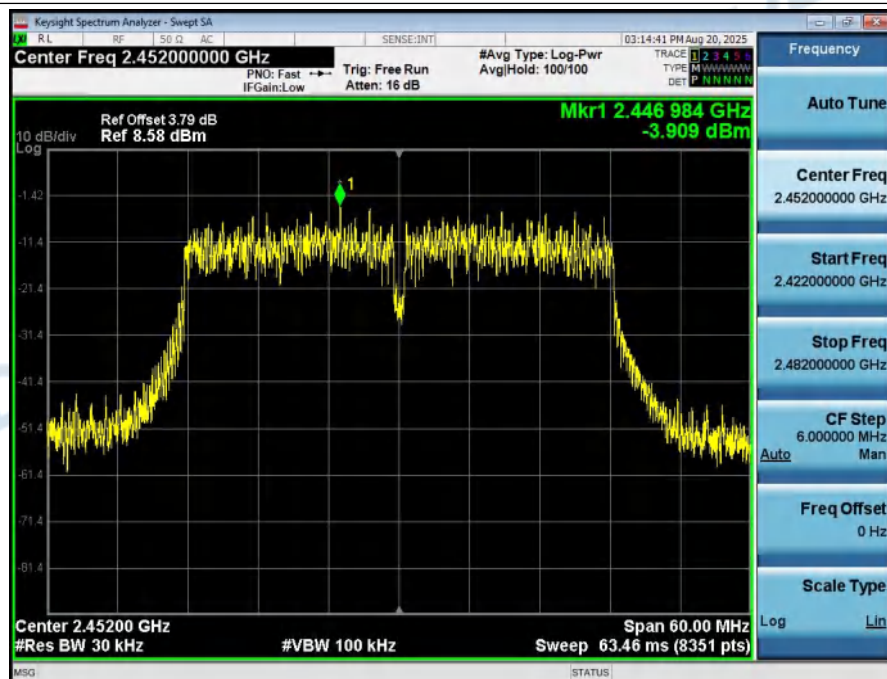
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



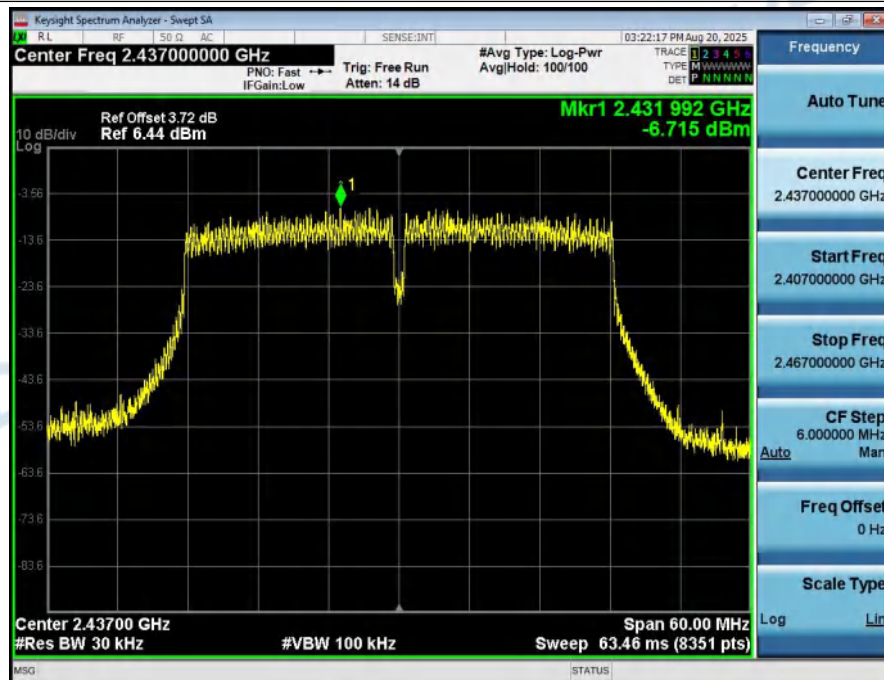
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



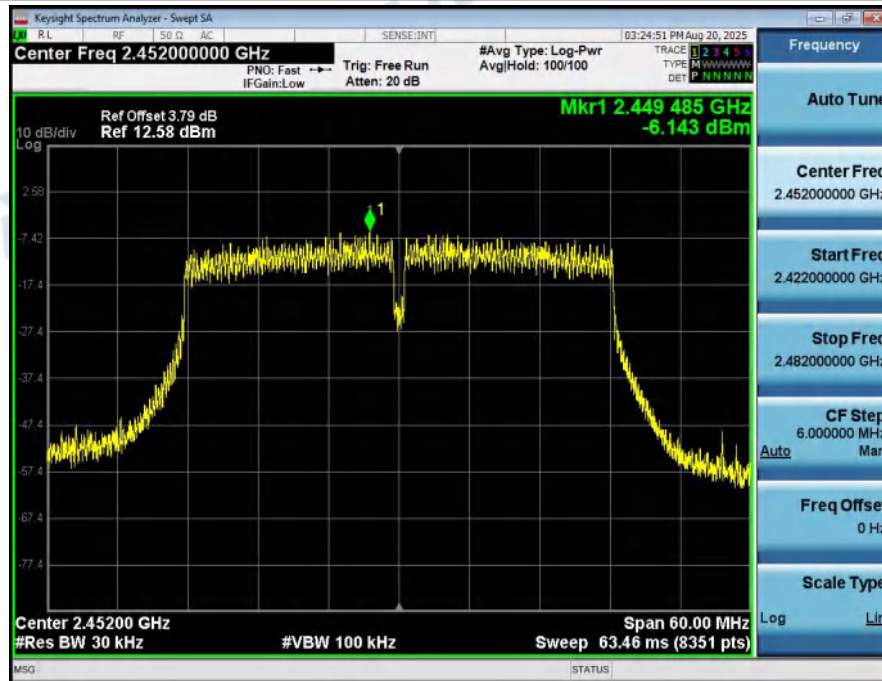
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_2452



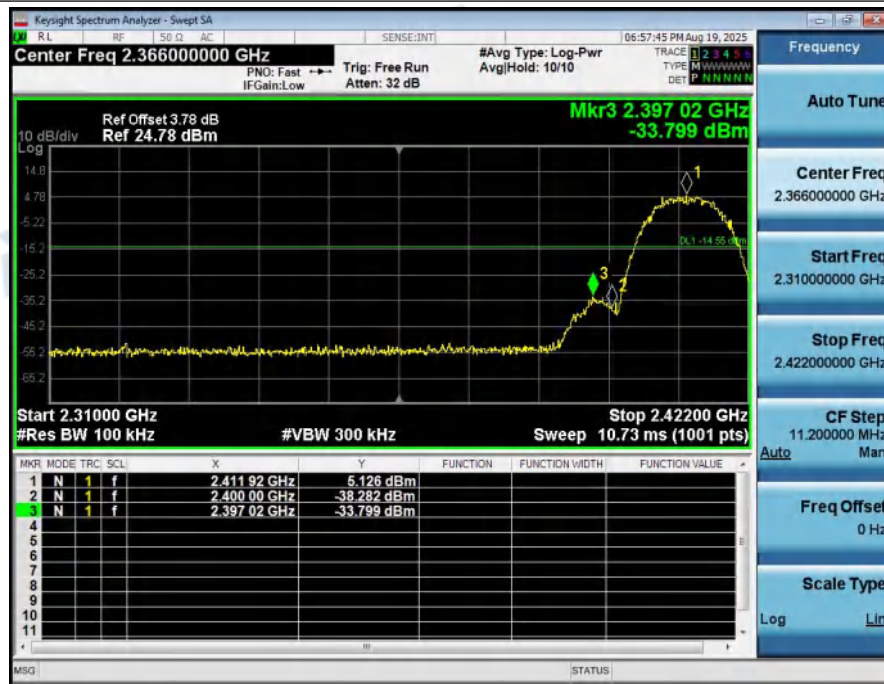
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2397.024	5.454	-33.799	-14.546	Pass
NVNT	ANT1	802.11b	2462.00	2488.864	5.911	-50.804	-14.089	Pass
NVNT	ANT1	802.11g	2412.00	2399.376	2.906	-37.001	-17.094	Pass
NVNT	ANT1	802.11g	2462.00	2483.824	4.197	-50.934	-15.803	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.600	3.166	-36.807	-16.834	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.160	3.597	-49.682	-16.403	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	2399.712	0.358	-36.907	-19.642	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	2485.504	0.792	-52.227	-19.208	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2396.988	0.044	-37.533	-19.956	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	0.058	-40.815	-19.942	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	2399.892	-1.131	-40.760	-21.131	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	2484.496	-1.054	-46.854	-21.054	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



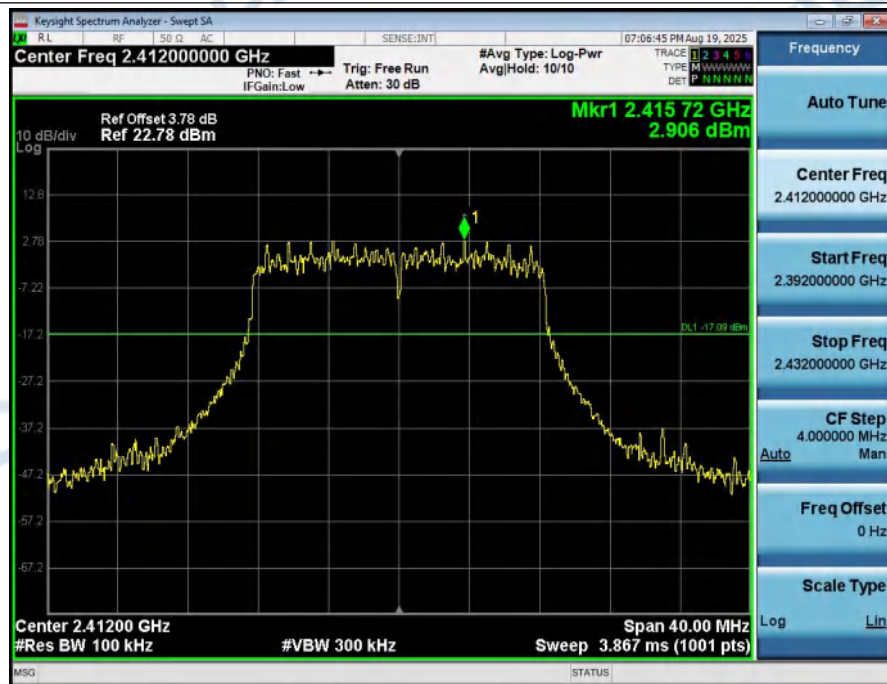
1_Reference_Level_NVNT_ANT1_802_11b_2462



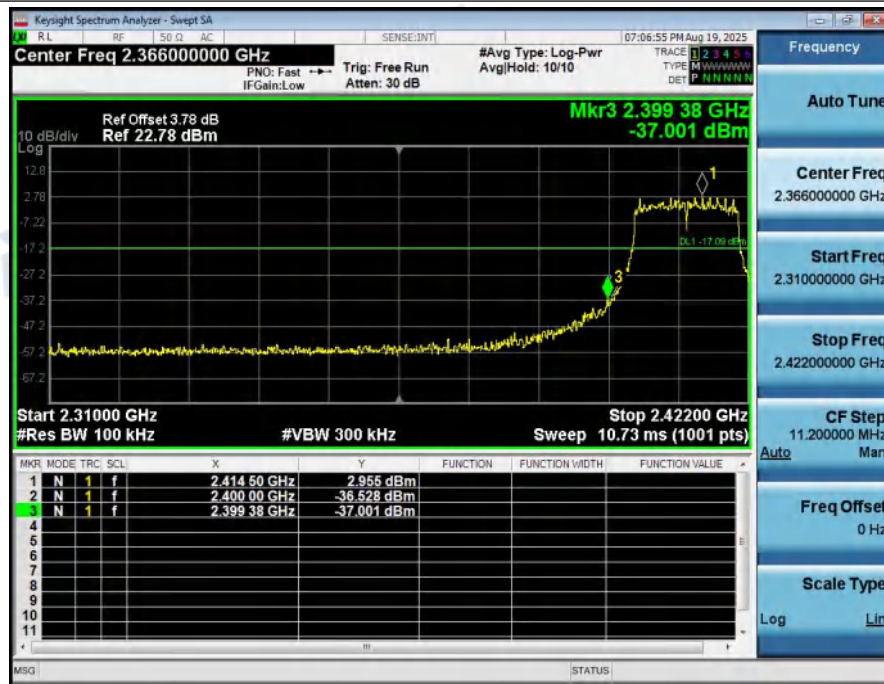
2_Bandedge_NVNT_ANT1_802_11b_2462



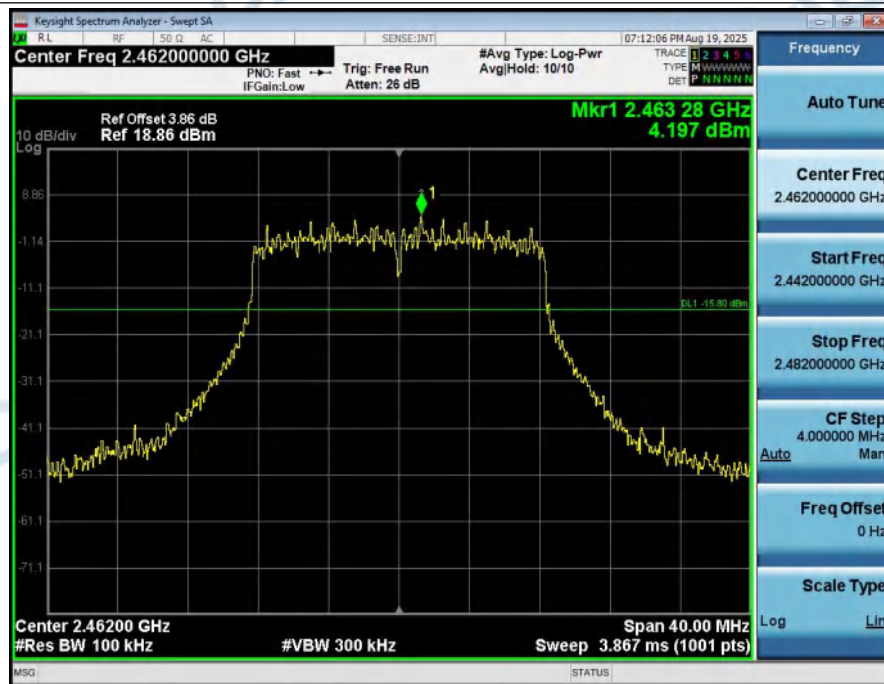
1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



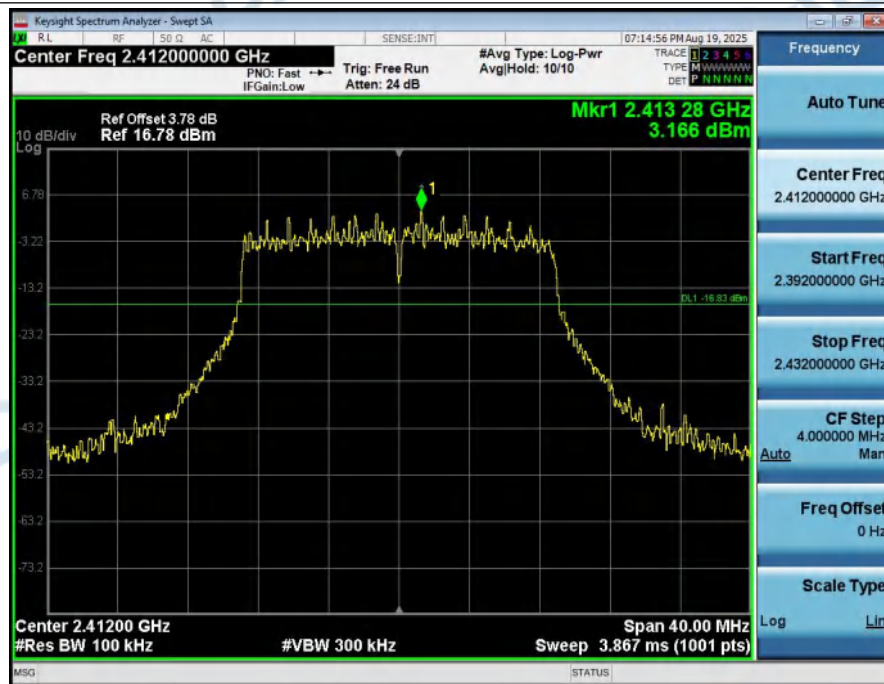
1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



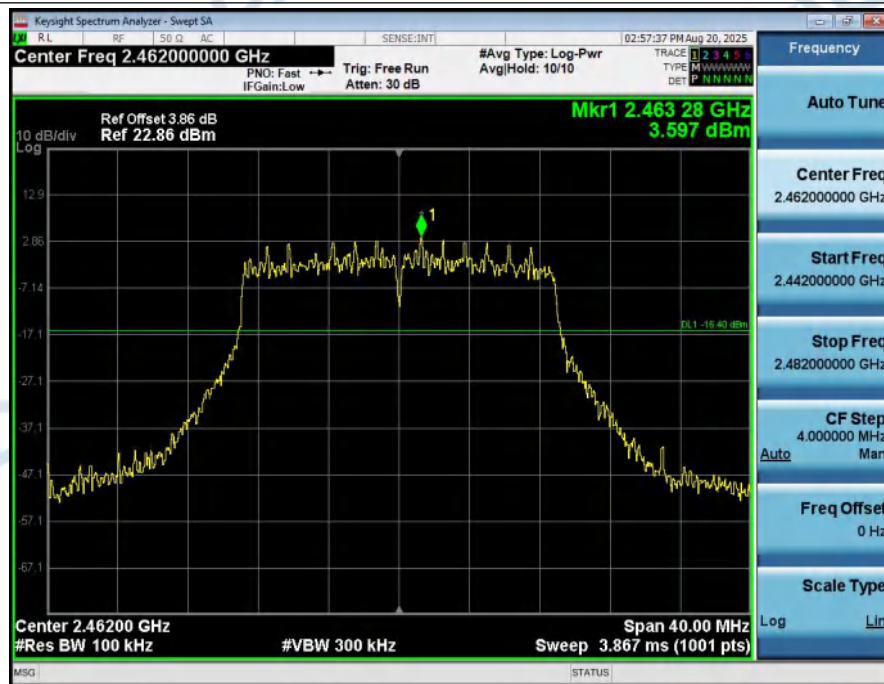
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



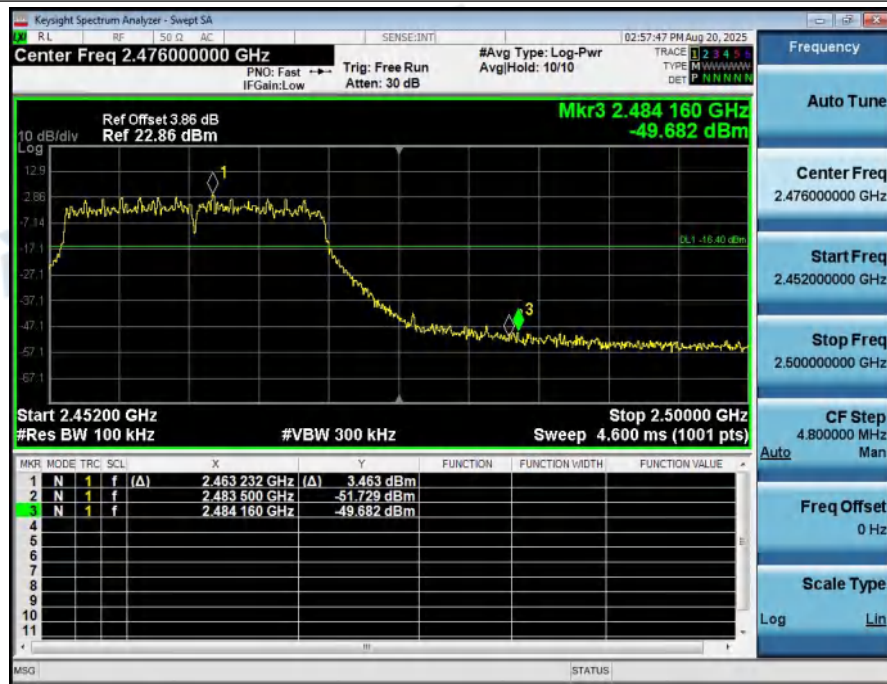
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



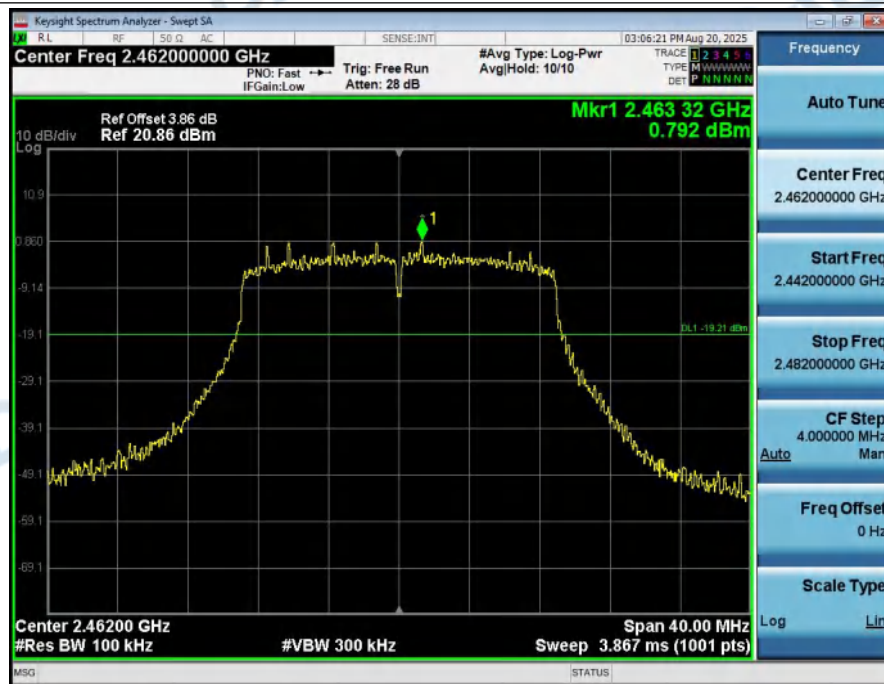
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



2_Bandedge_NVNT_ANT1_802_11ax(HE20)_2412



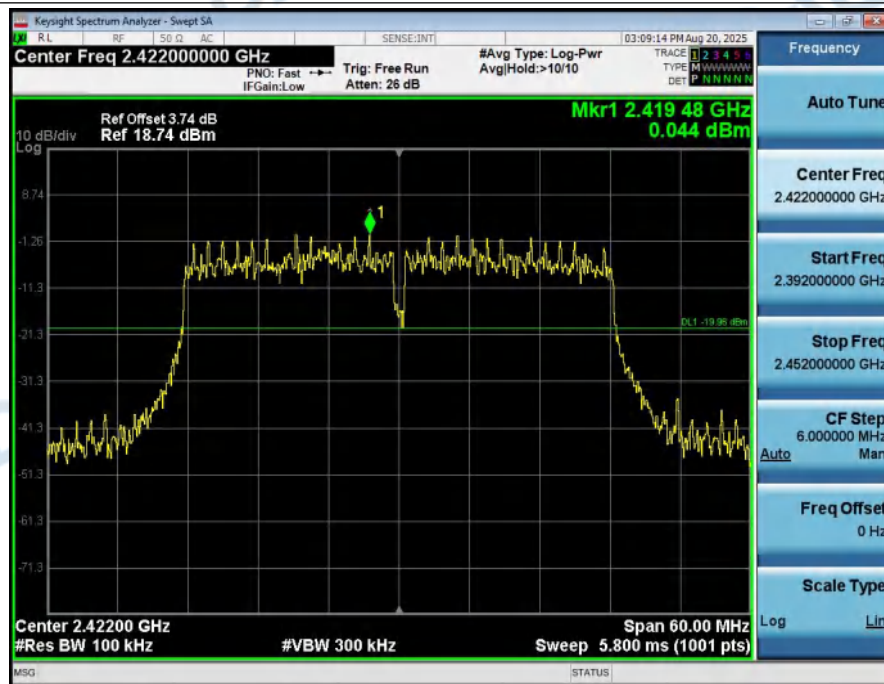
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2462



2_Bandedge_NVNT_ANT1_802_11ax(HE20)_2462



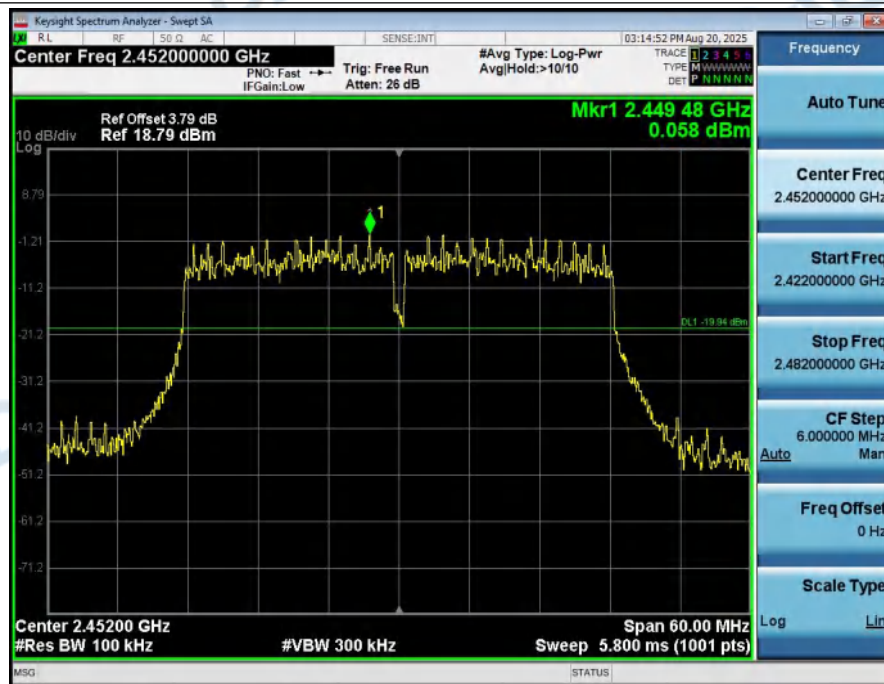
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



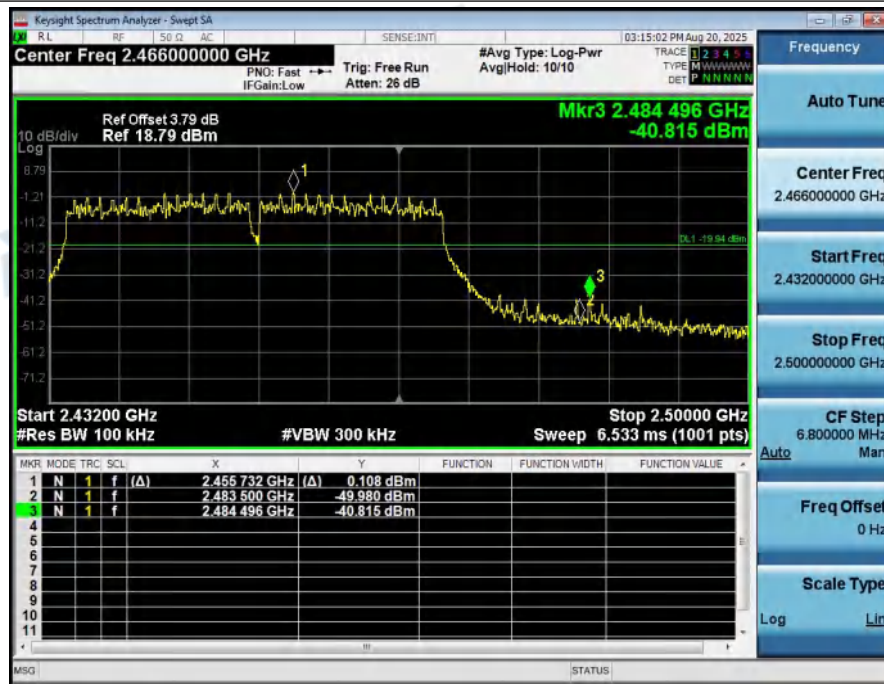
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



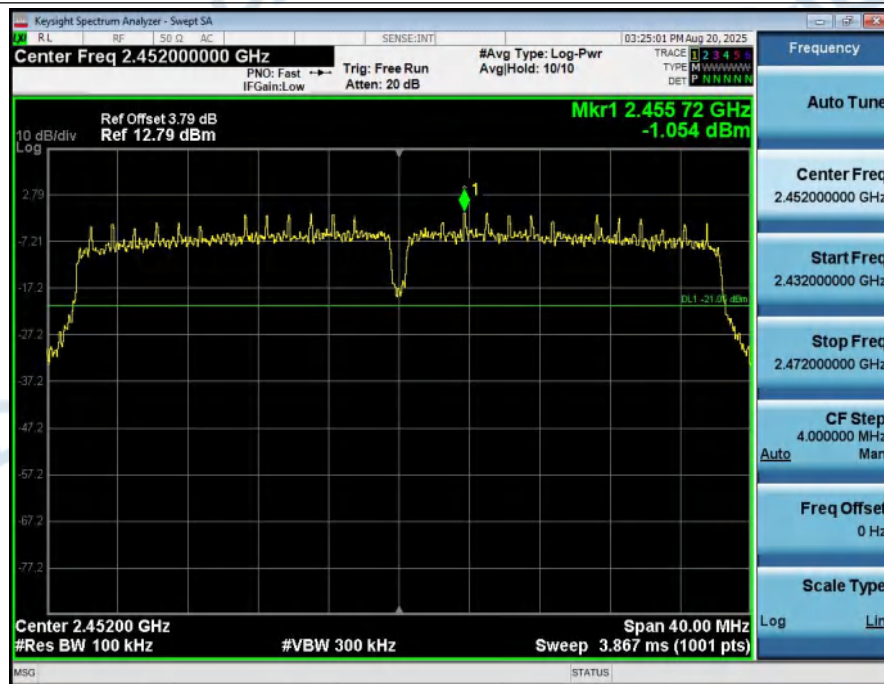
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



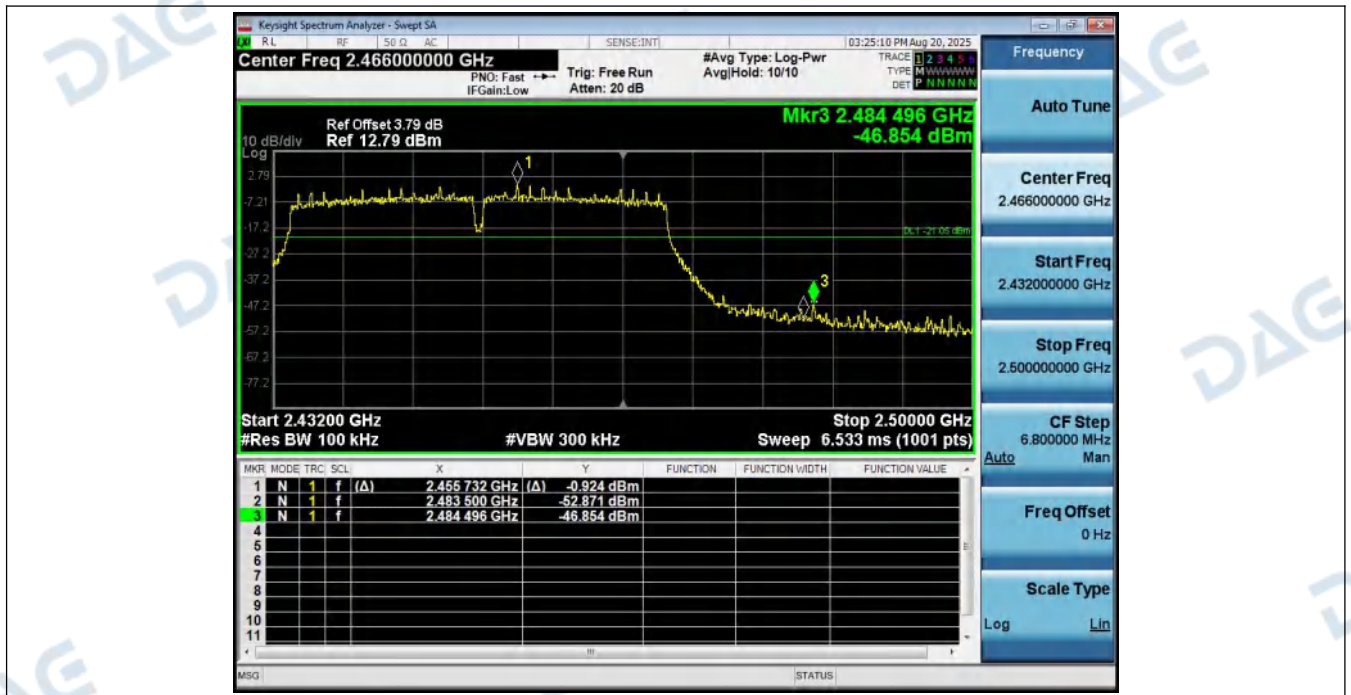
2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2422



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2452



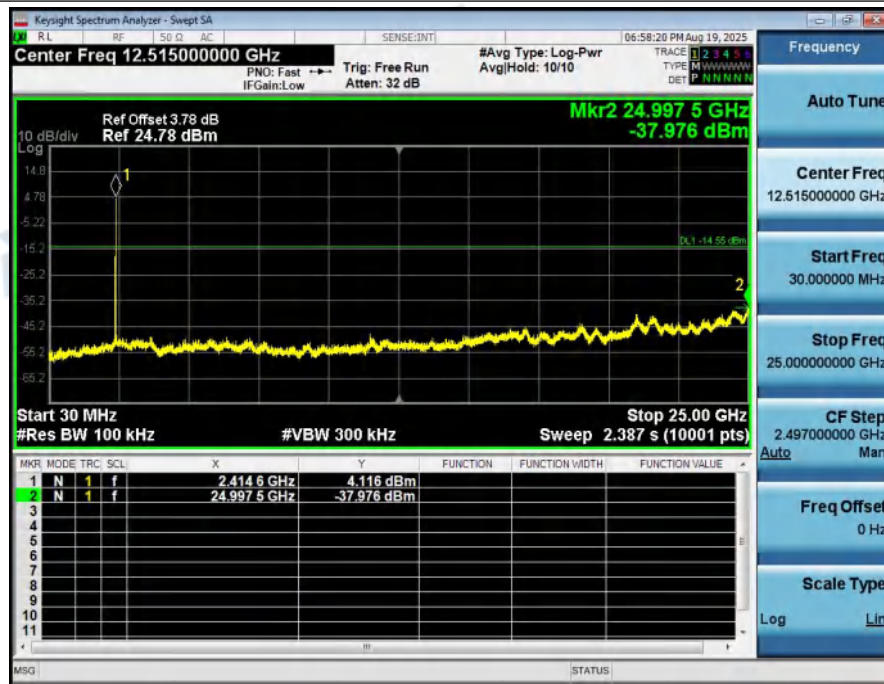
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24997.503	5.454	-37.976	-14.546	Pass
NVNT	ANT1	802.11b	2437.00	24980.024	4.713	-43.580	-15.287	Pass
NVNT	ANT1	802.11b	2462.00	24970.036	5.911	-37.862	-14.089	Pass
NVNT	ANT1	802.11g	2412.00	24957.551	2.906	-39.874	-17.094	Pass
NVNT	ANT1	802.11g	2437.00	24510.588	3.617	-39.738	-16.383	Pass
NVNT	ANT1	802.11g	2462.00	24977.527	4.197	-43.430	-15.803	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24965.042	3.166	-45.358	-16.834	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24970.036	2.909	-45.428	-17.091	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24922.593	3.597	-38.834	-16.403	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	24972.533	0.358	-47.235	-19.642	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	24977.527	0.678	-47.042	-19.322	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	24910.108	0.792	-41.378	-19.208	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24982.521	0.044	-43.204	-19.956	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24533.061	-0.370	-43.976	-20.370	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24510.588	0.058	-44.252	-19.942	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	24982.521	-1.131	-43.661	-21.131	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	24543.049	-1.521	-50.190	-21.521	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	24982.521	-1.054	-49.576	-21.054	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



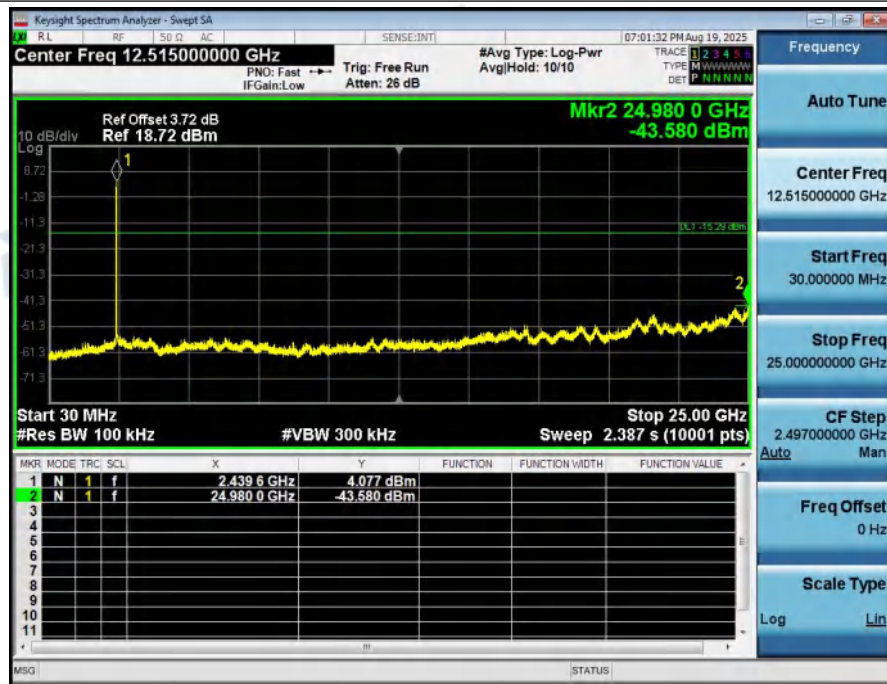
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437



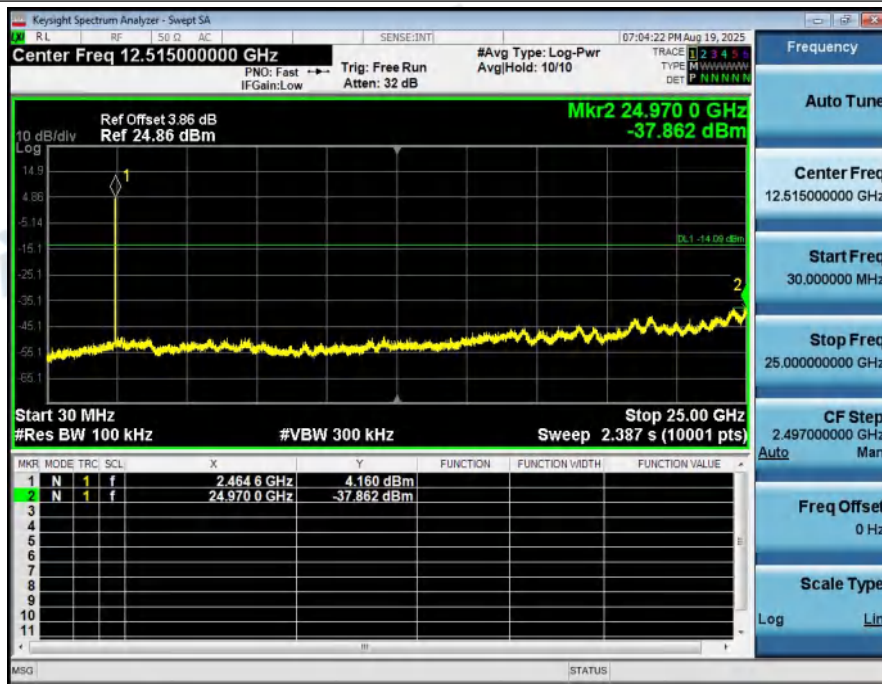
2_Spurious_Emission_NVNT_ANT1_802_11b_2437



1_Reference_Level_NVNT_ANT1_802_11b_2462



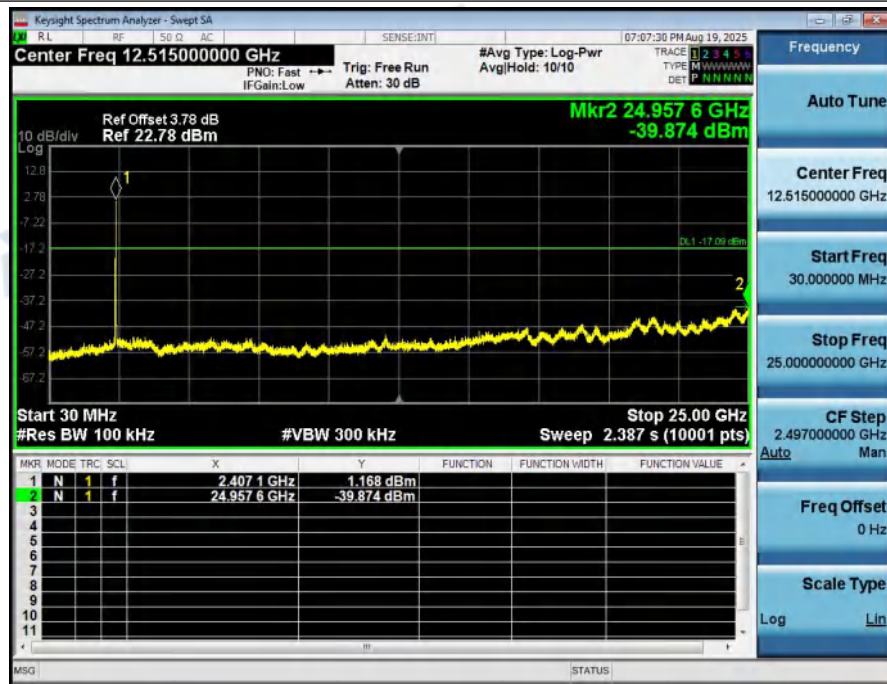
2_Spurious_Emission_NVNT_ANT1_802_11b_2462



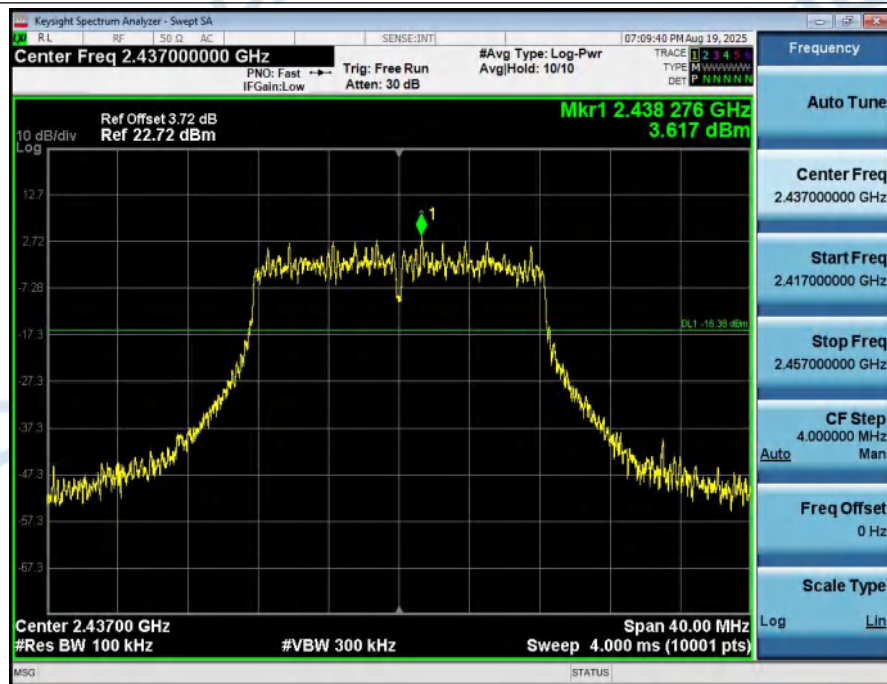
1_Reference_Level_NVNT_ANT1_802_11g_2412



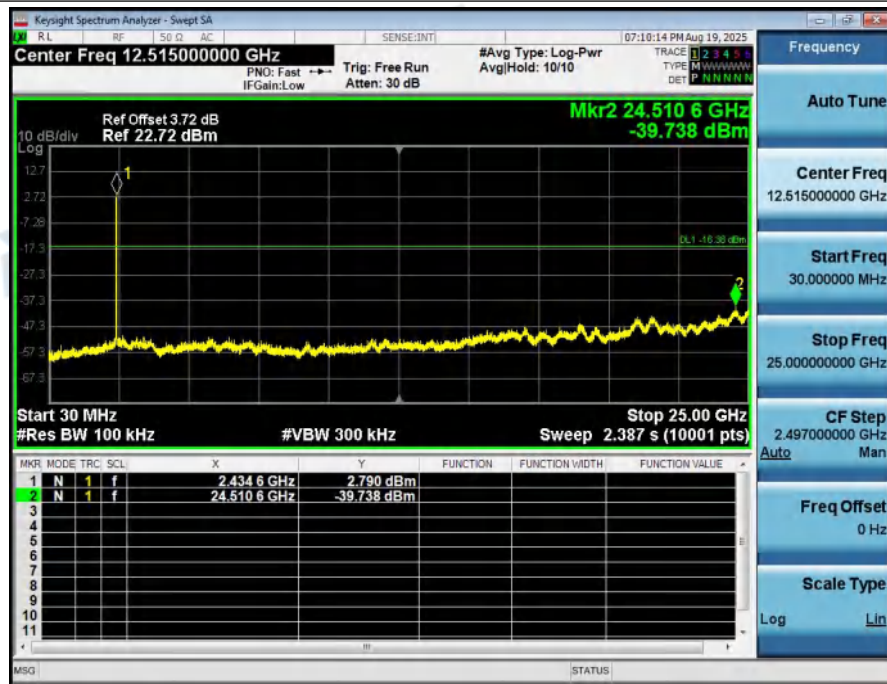
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



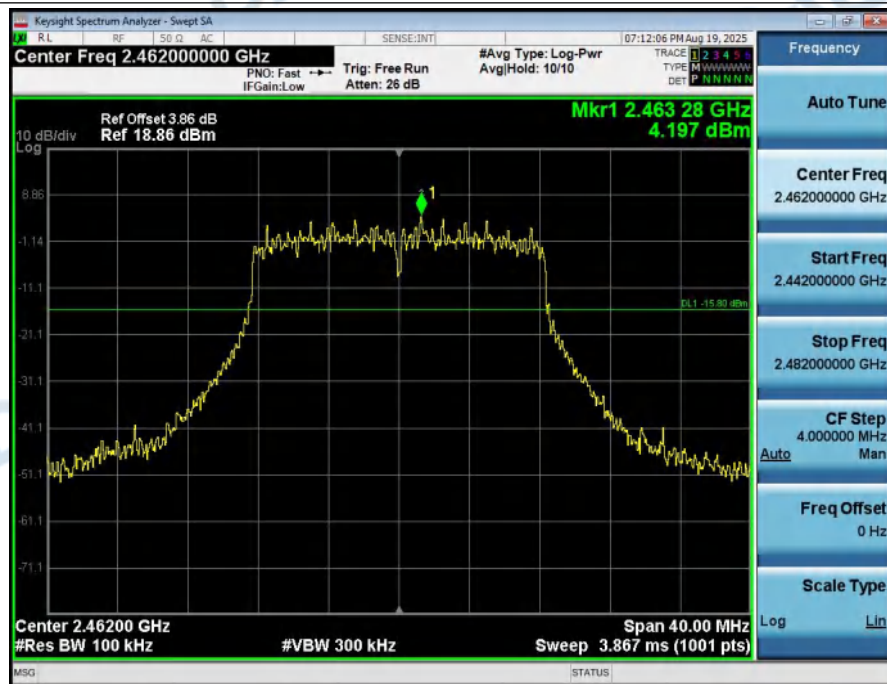
1_Reference_Level_NVNT_ANT1_802_11g_2437



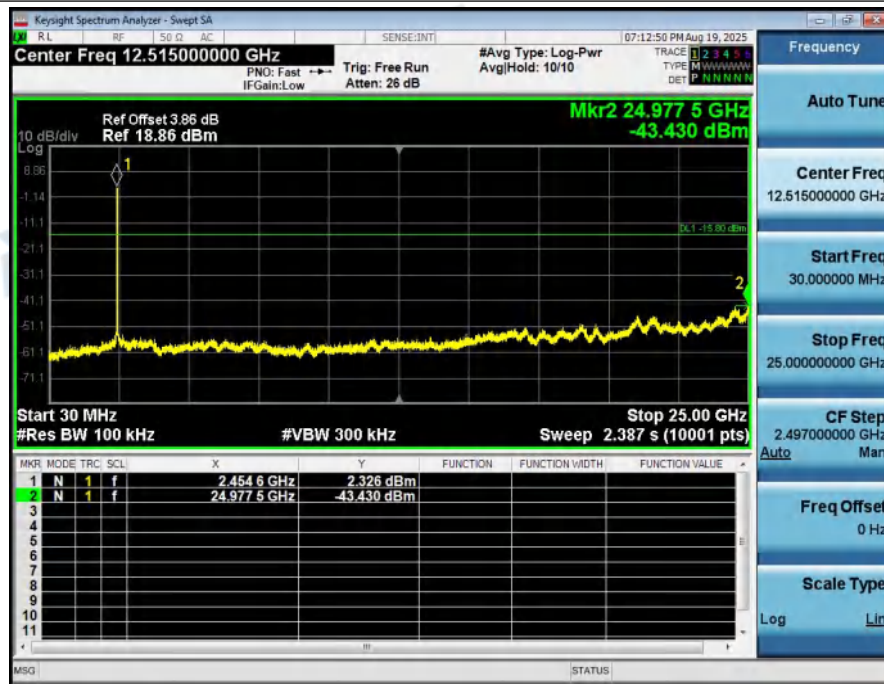
2_Spurious_Emission_NVNT_ANT1_802_11g_2437



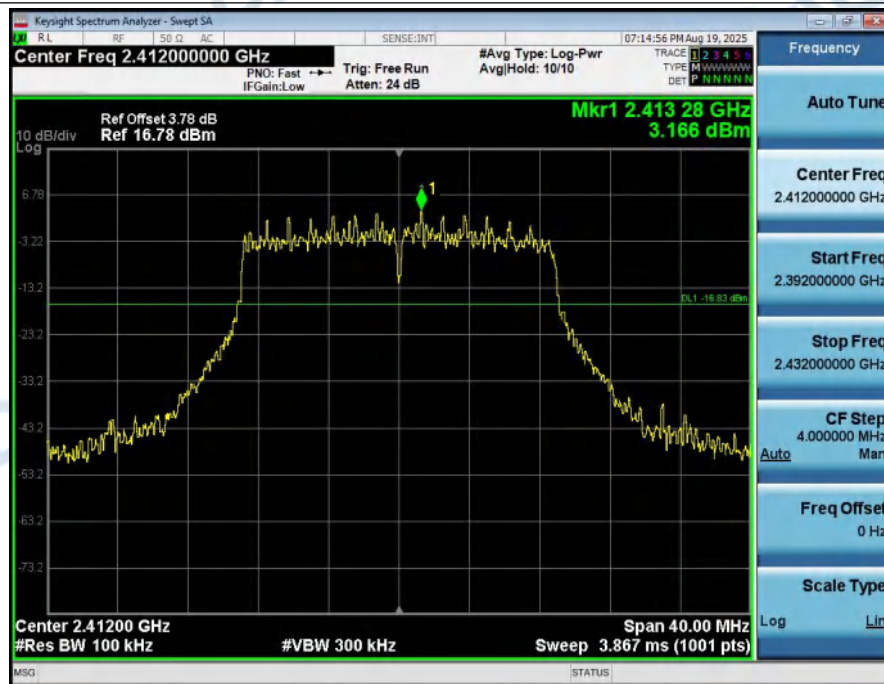
1_Reference_Level_NVNT_ANT1_802_11g_2462



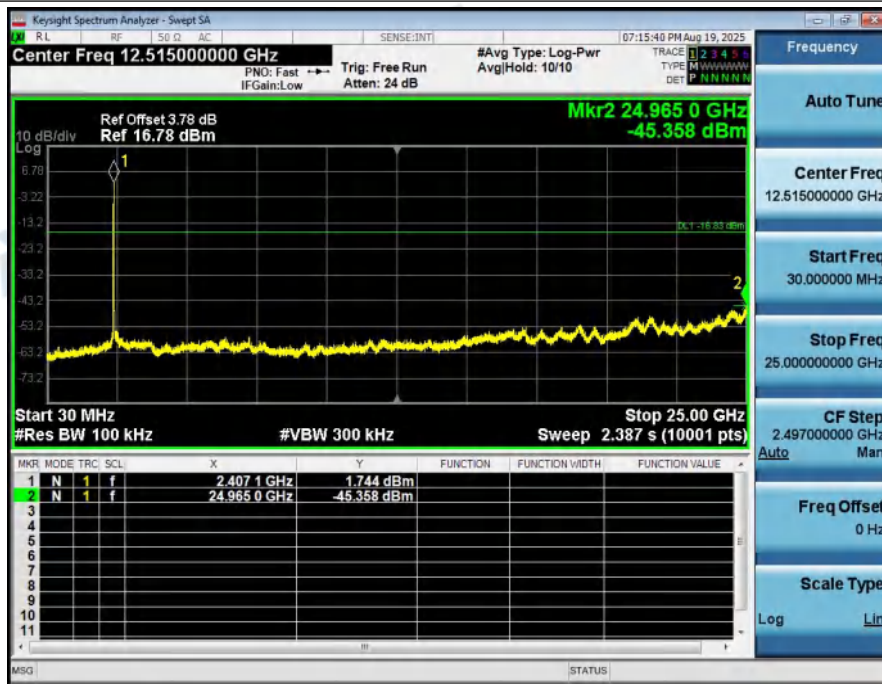
2_Spurious_Emission_NVNT_ANT1_802_11g_2462



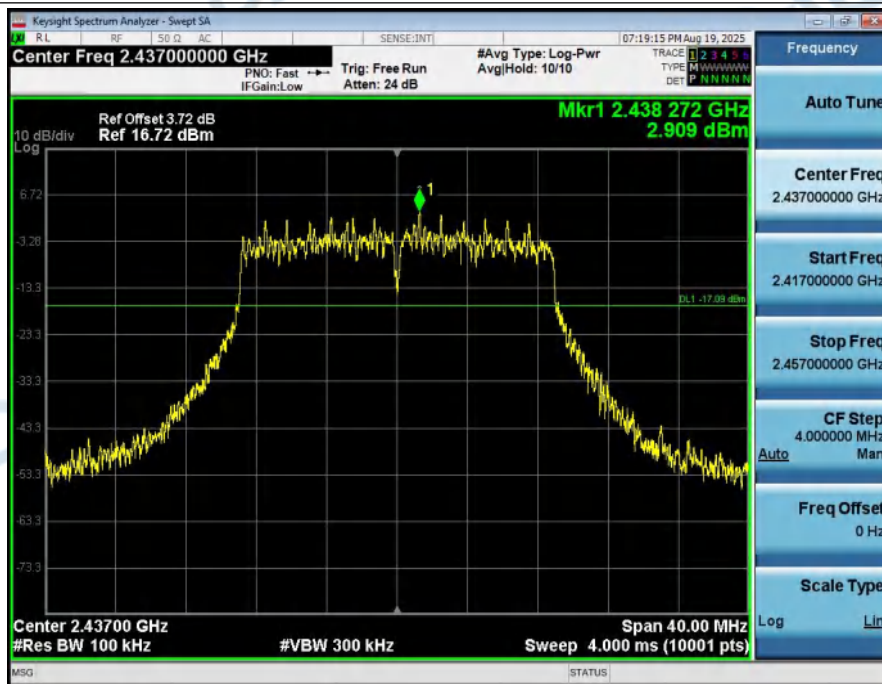
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



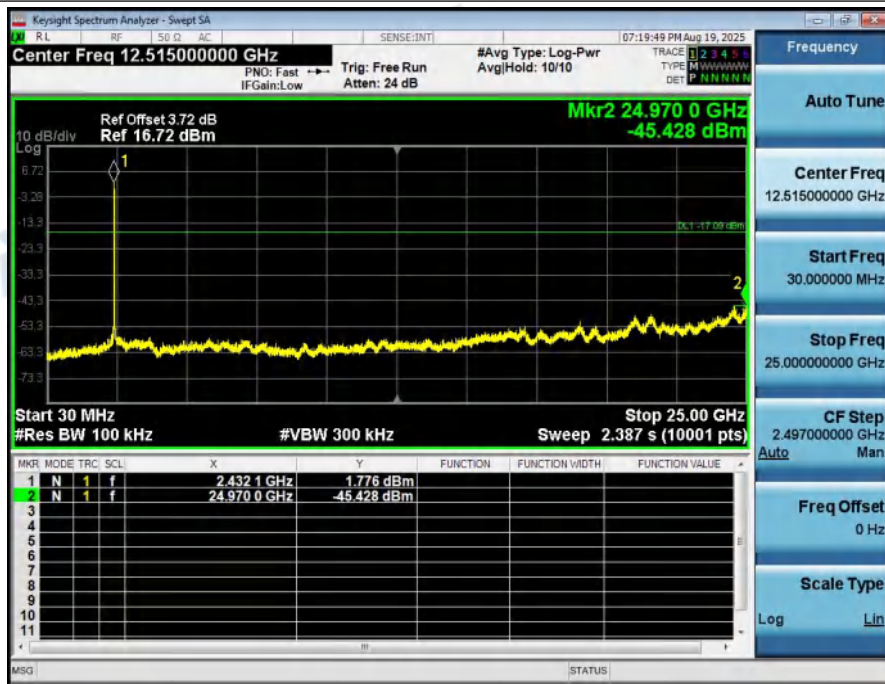
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



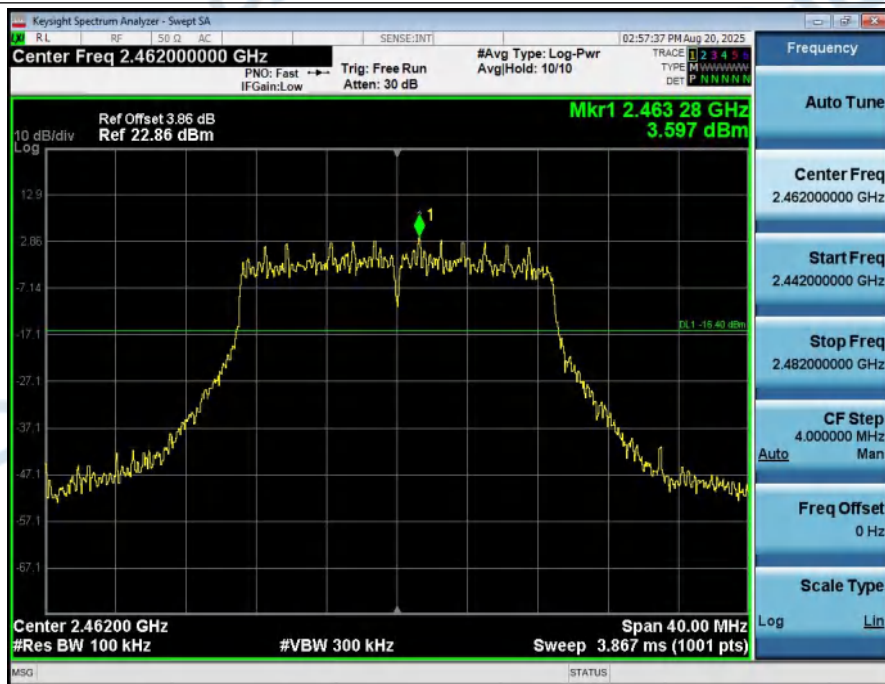
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



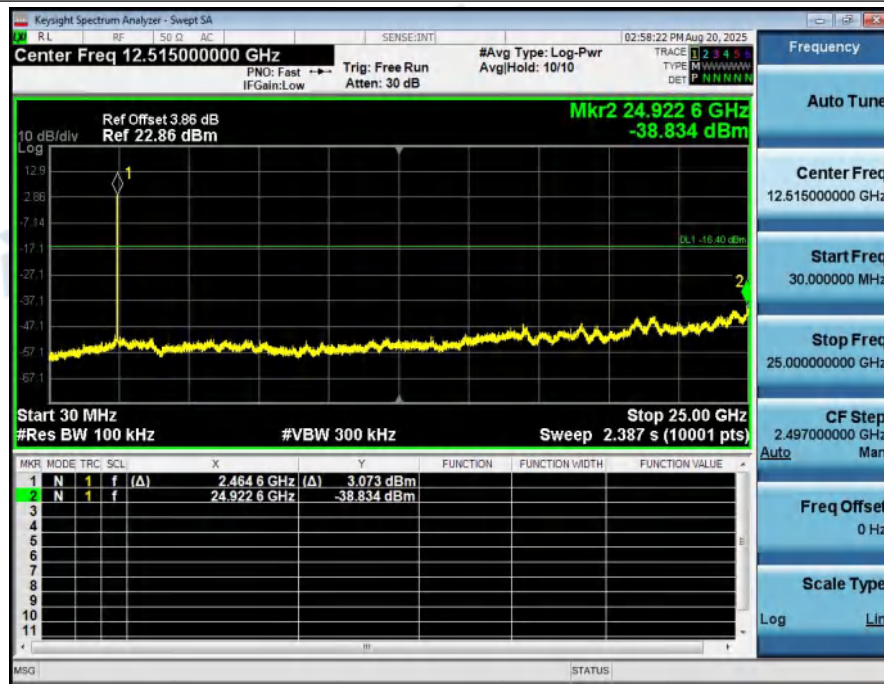
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



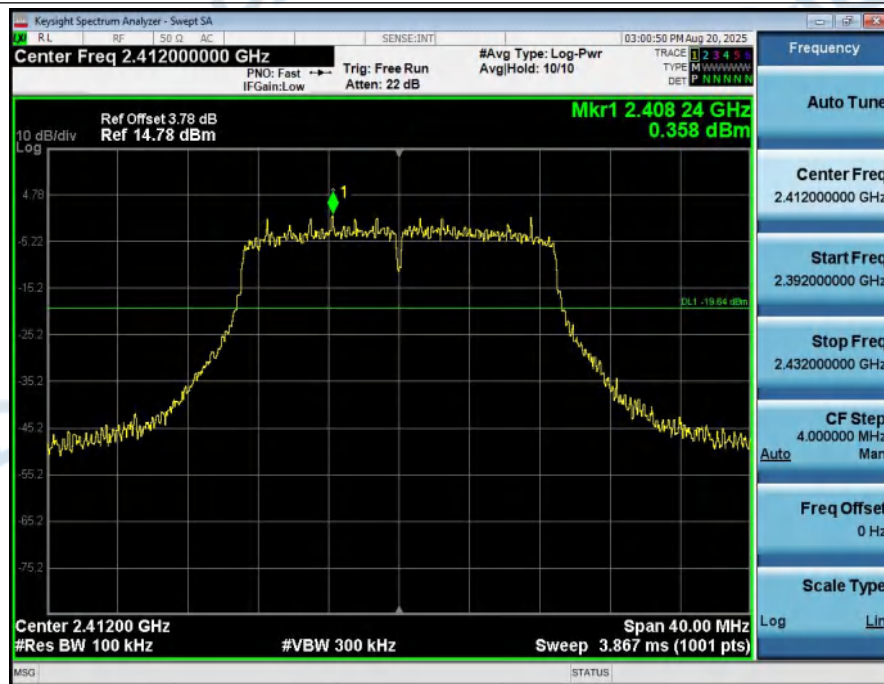
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



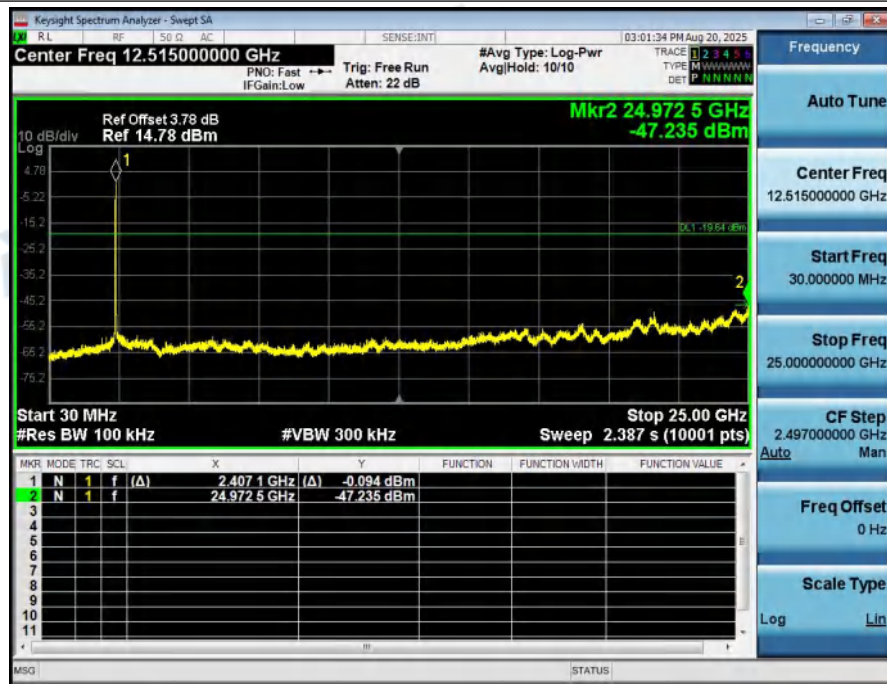
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



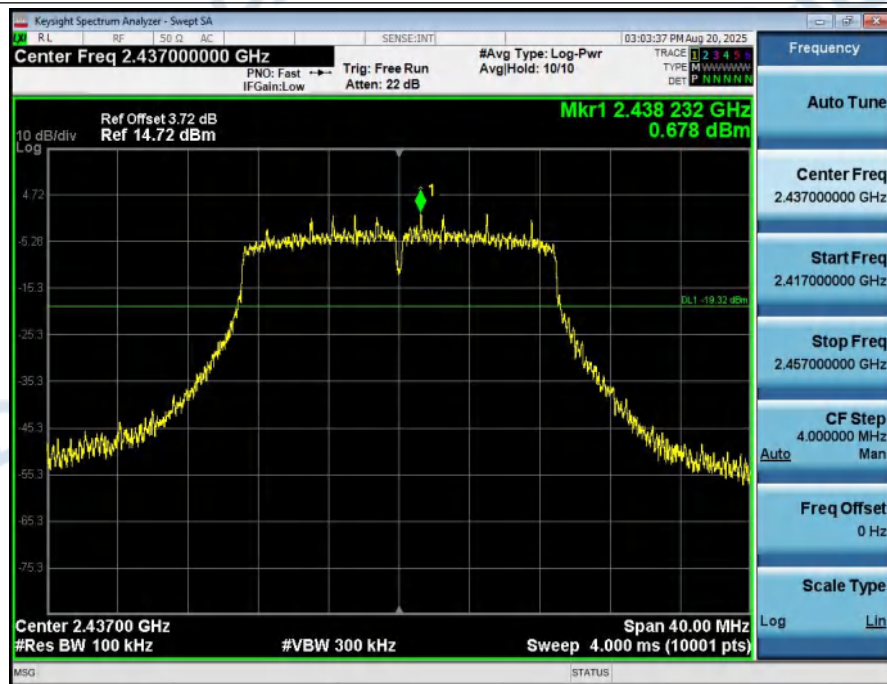
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



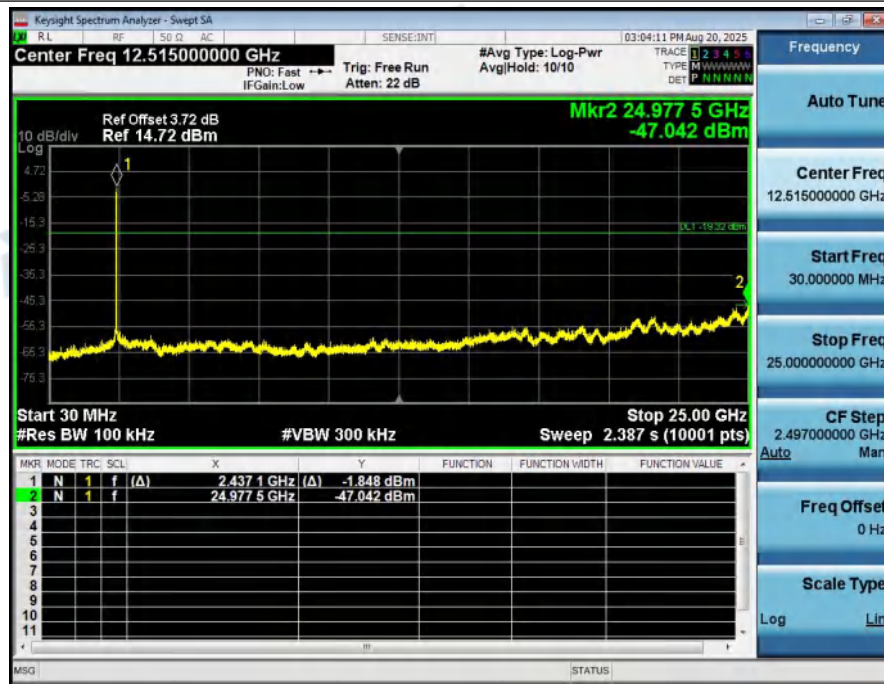
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2412



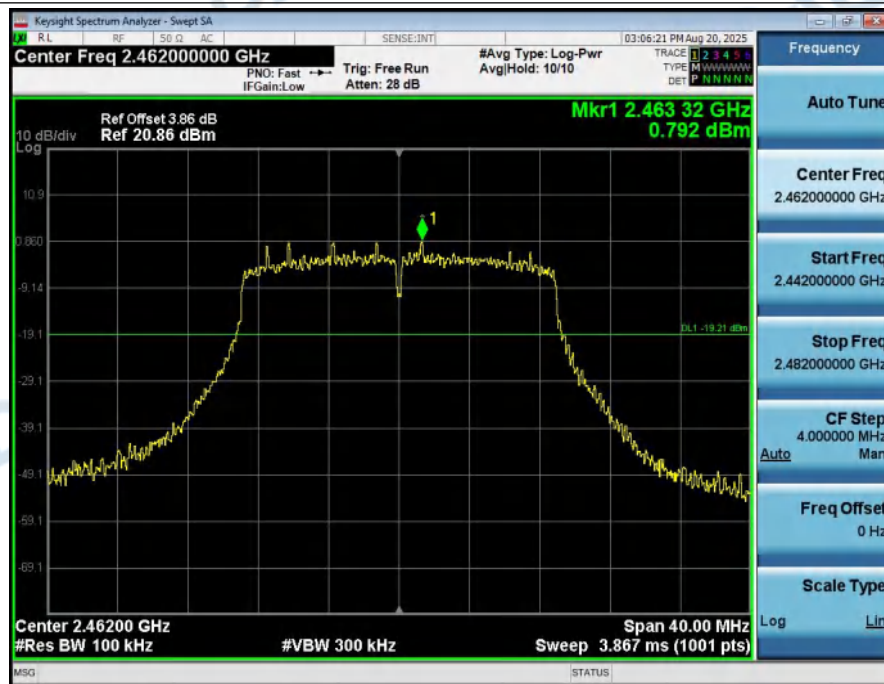
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2437



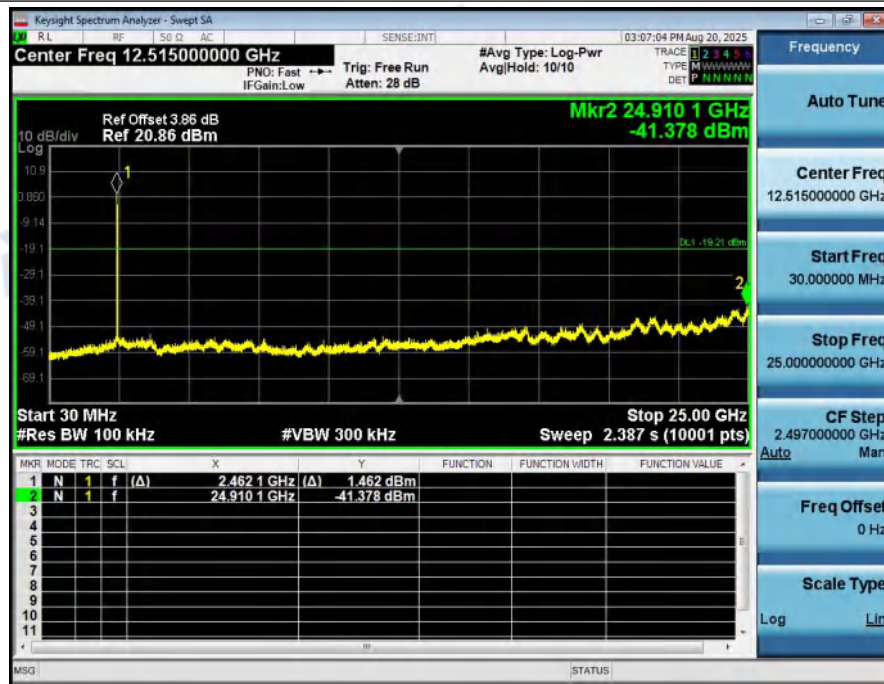
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2437



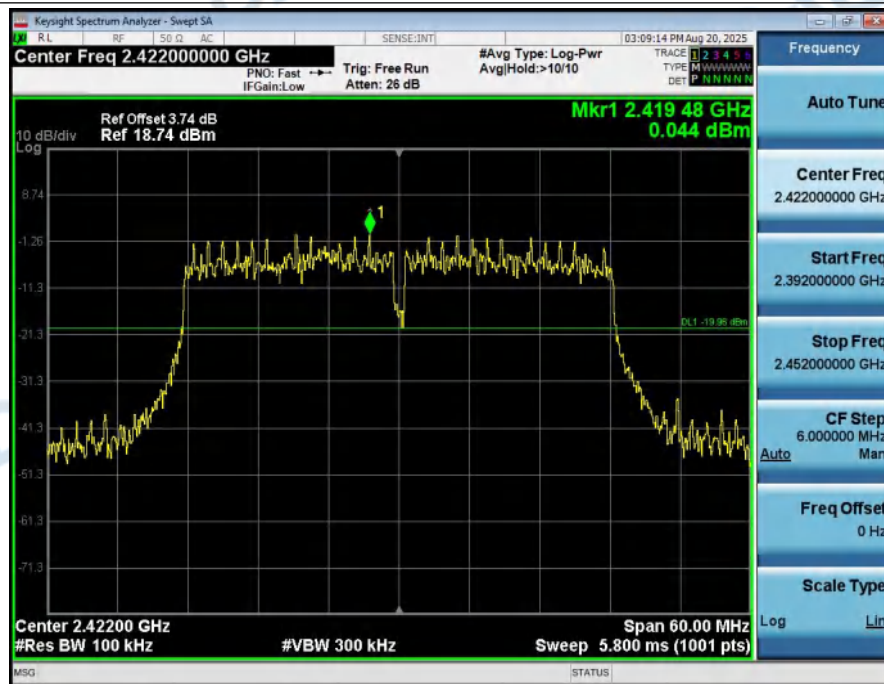
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2462



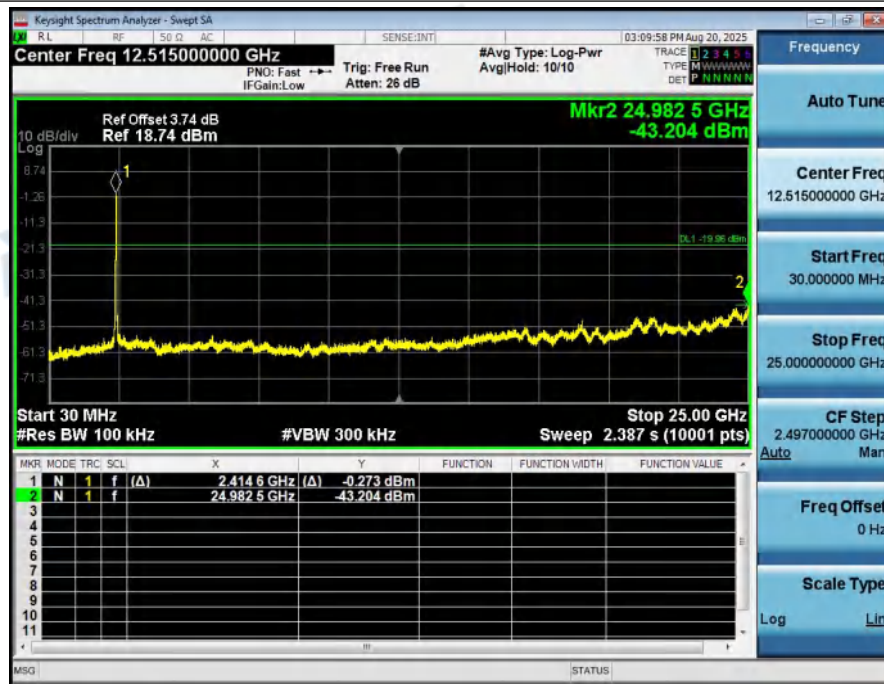
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



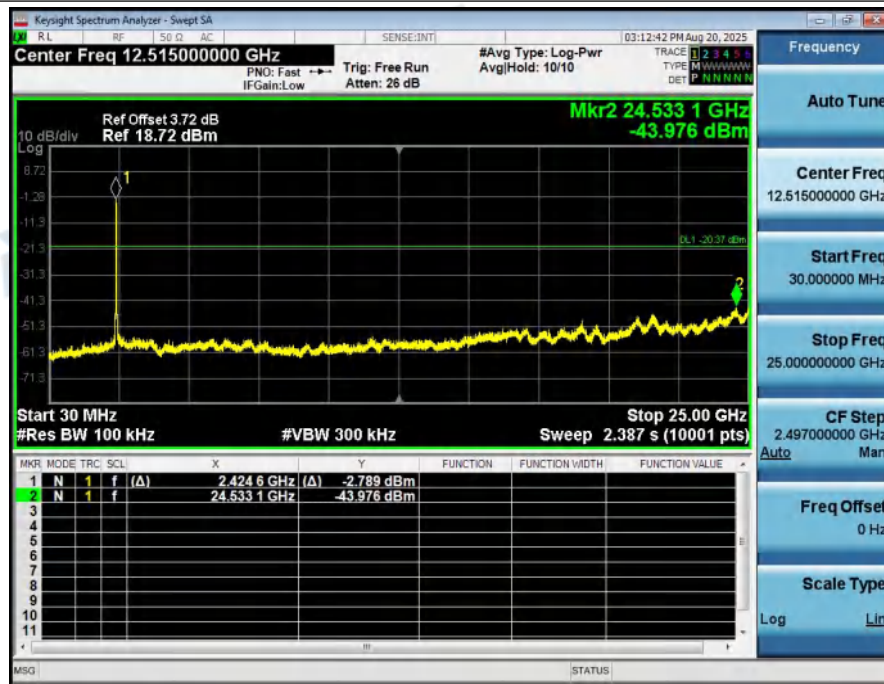
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



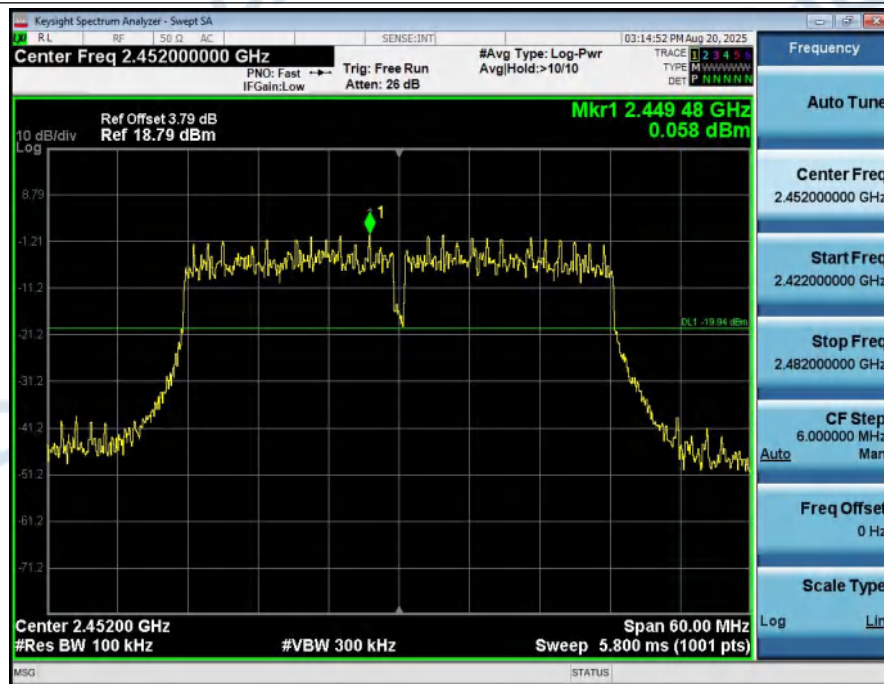
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437



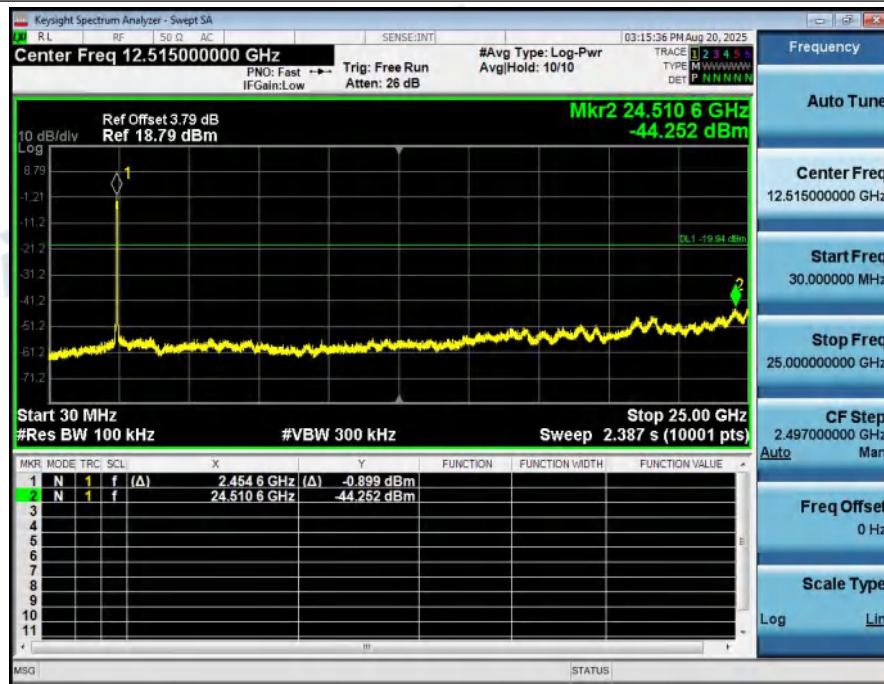
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



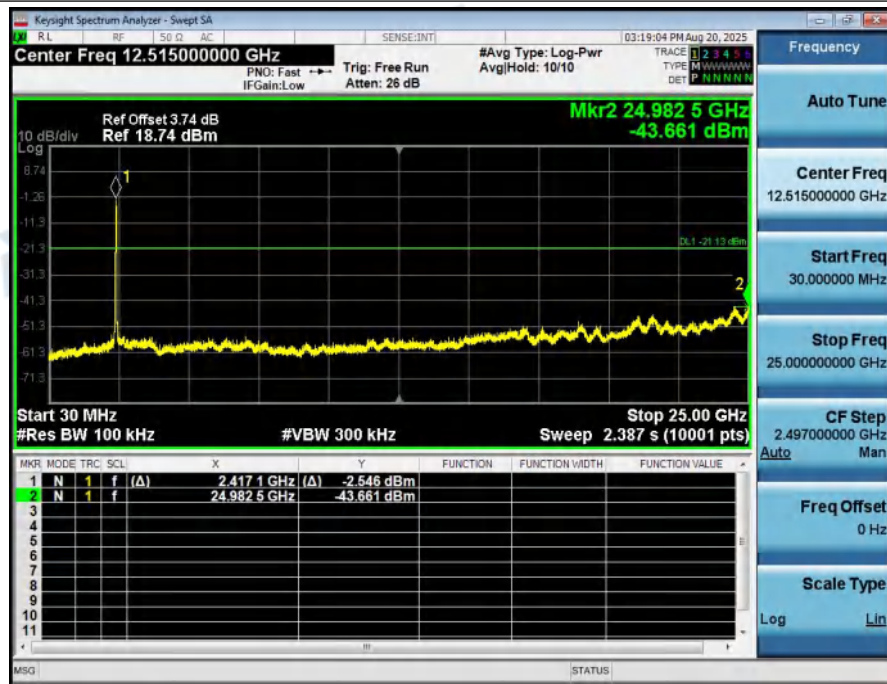
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



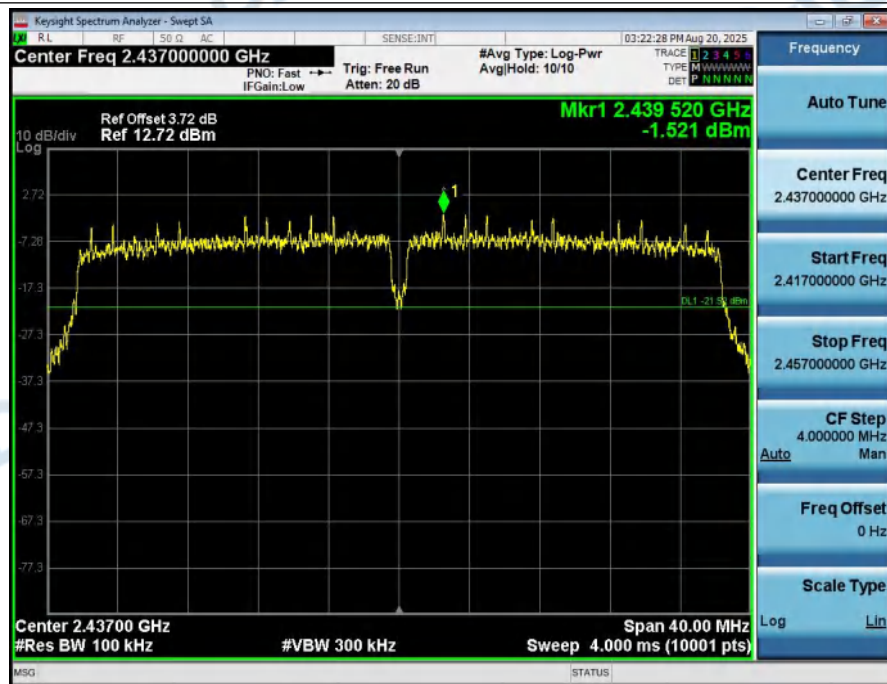
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



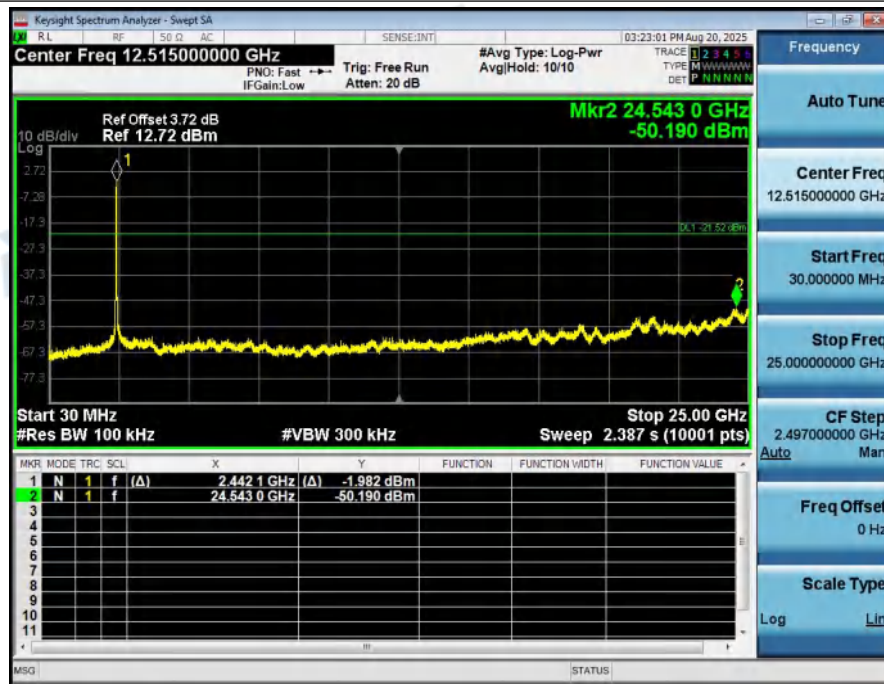
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2422



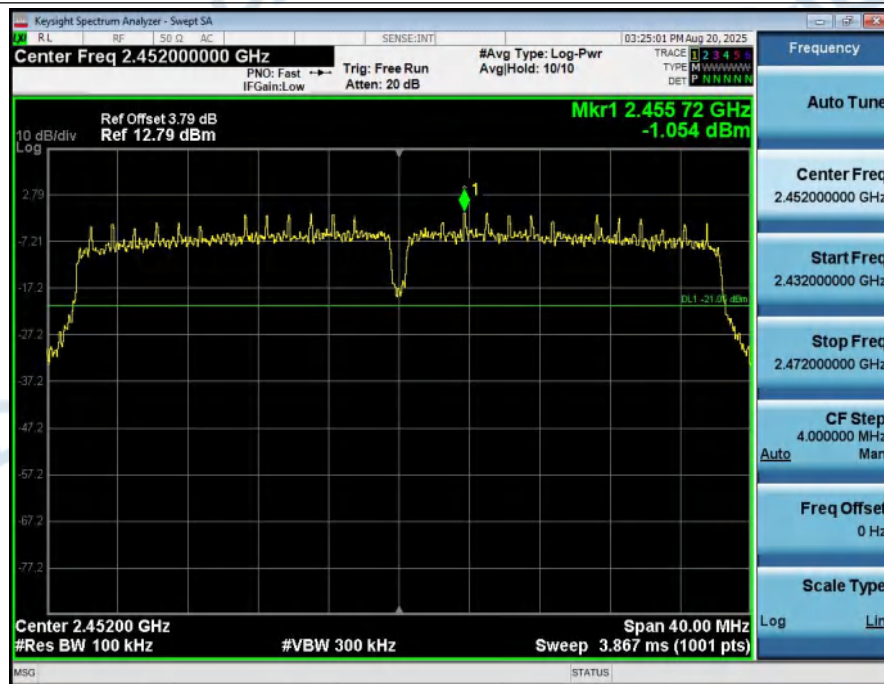
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2437



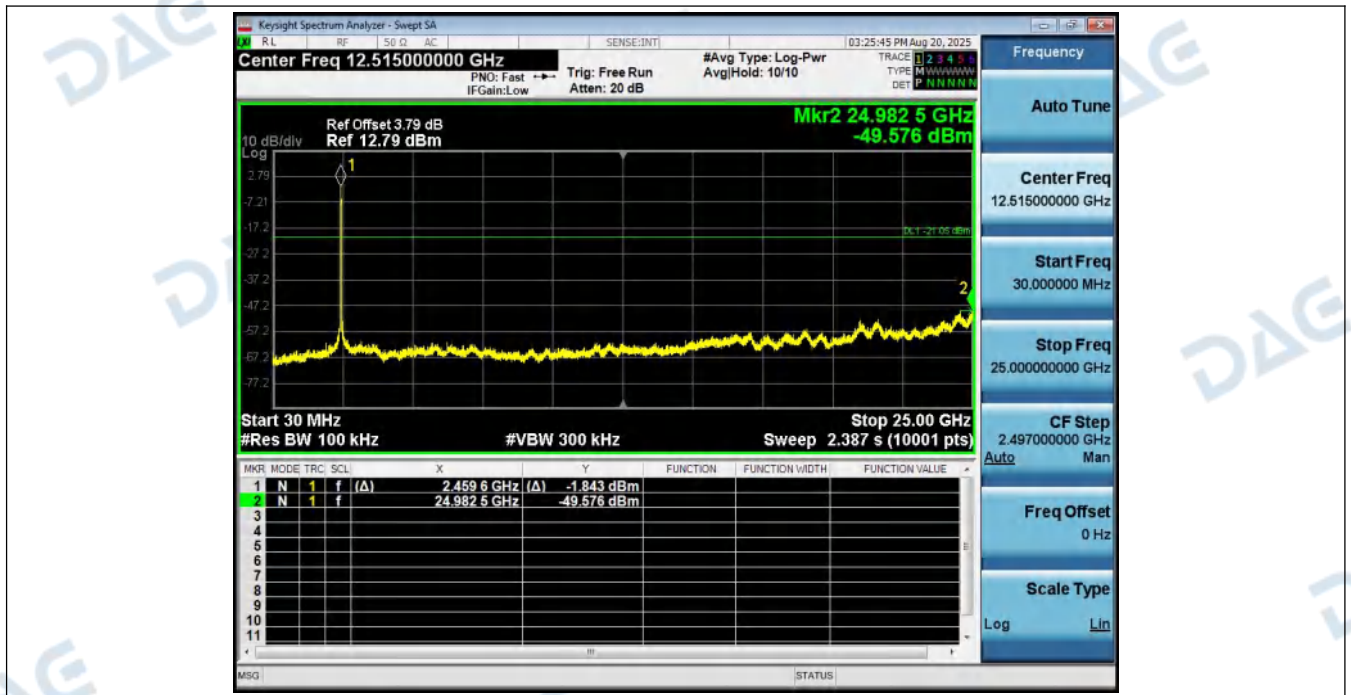
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2437



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2452



***** End of Report *****