

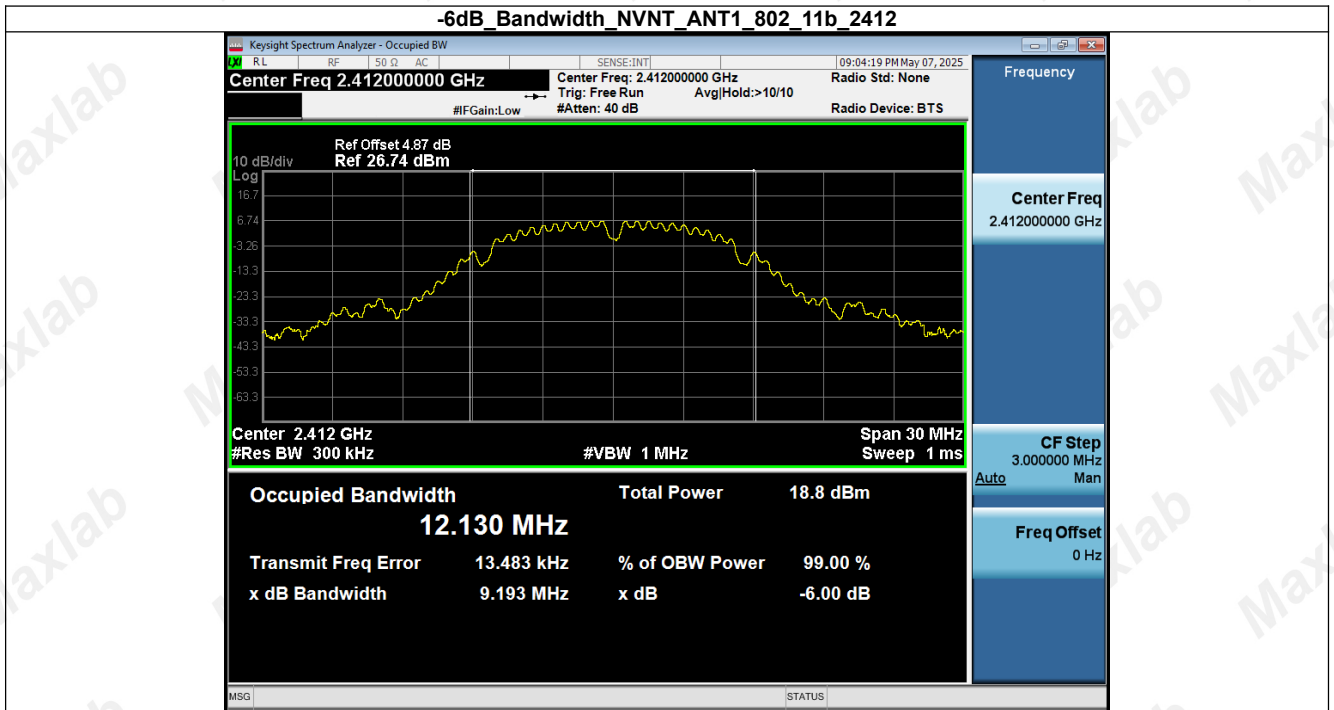
Report No.:MAX250410110P03-R02
FCC ID:2BDTM-S01T
FCC_2.4G_WIFI (Part15.247) Test Data

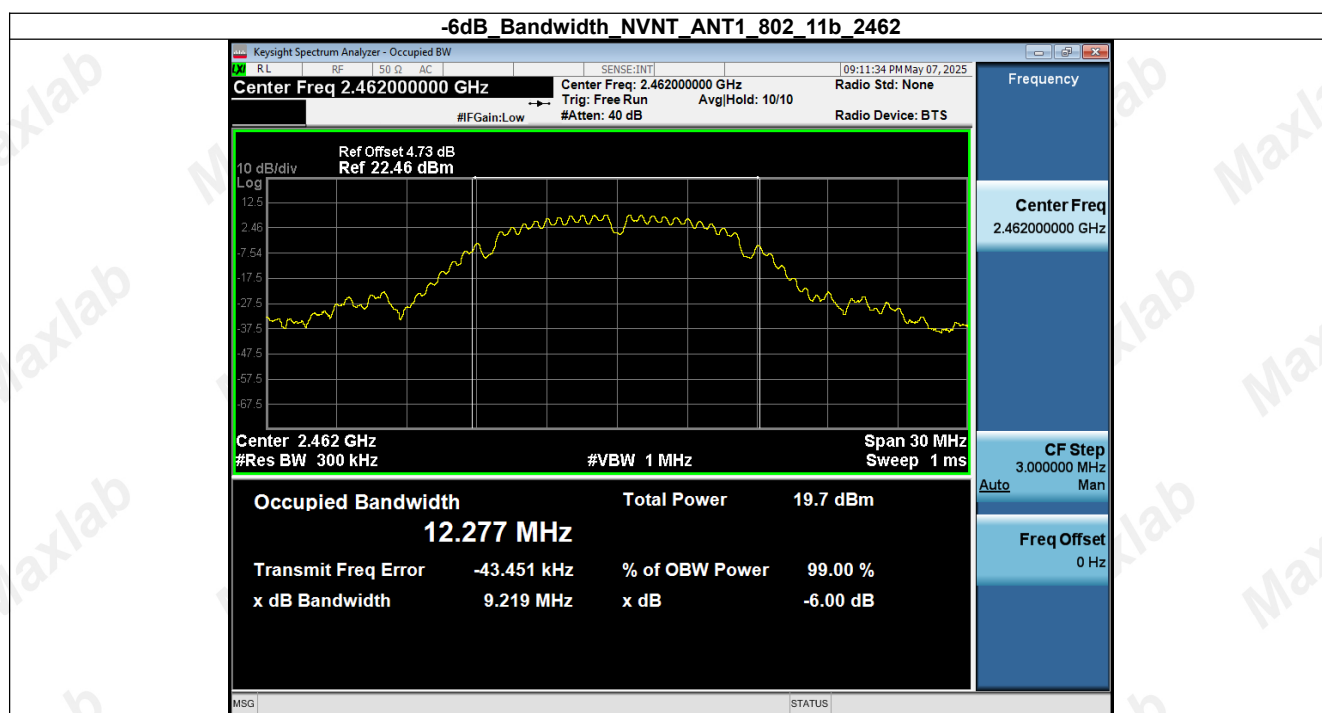
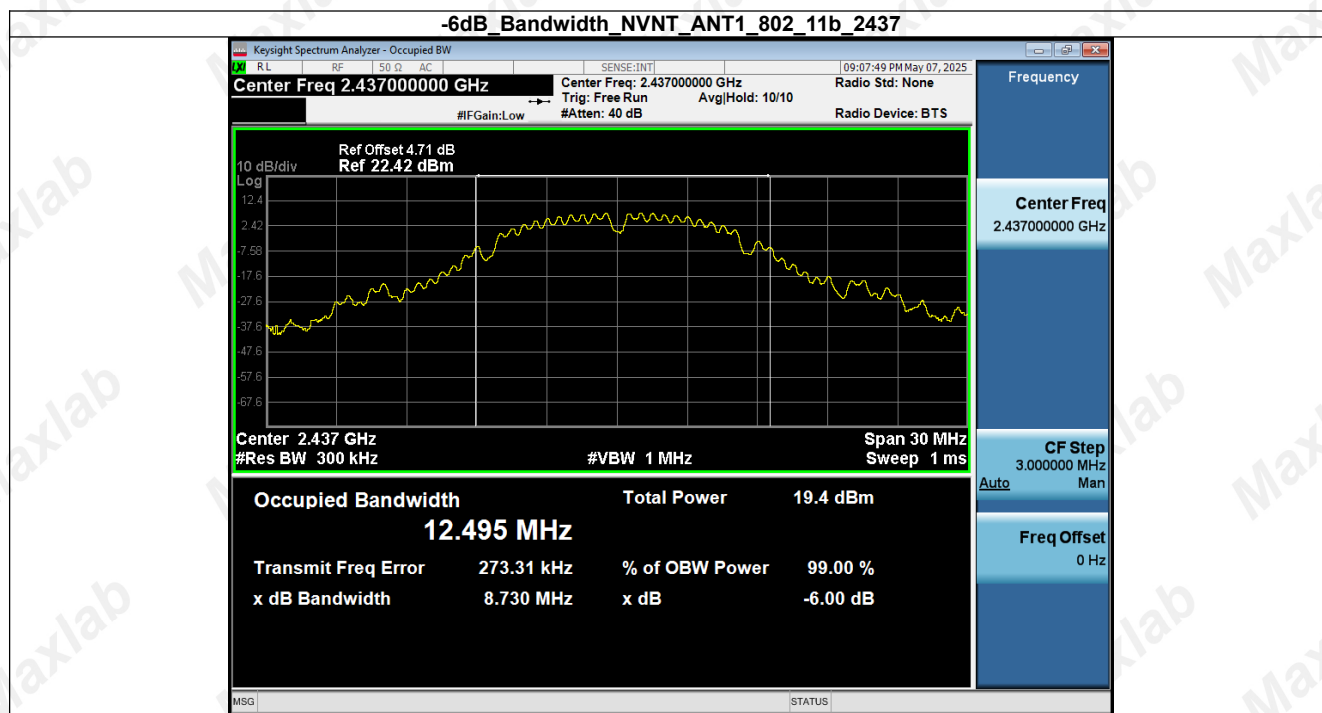
Table of Contents

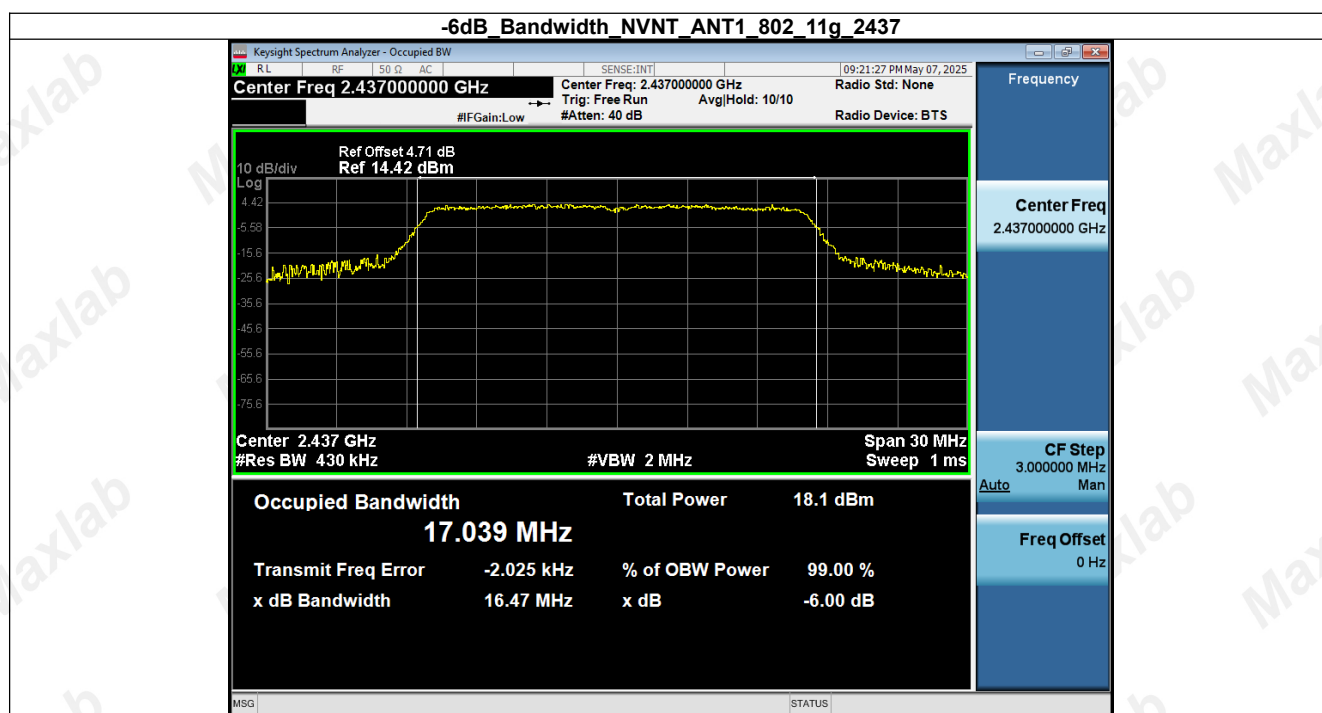
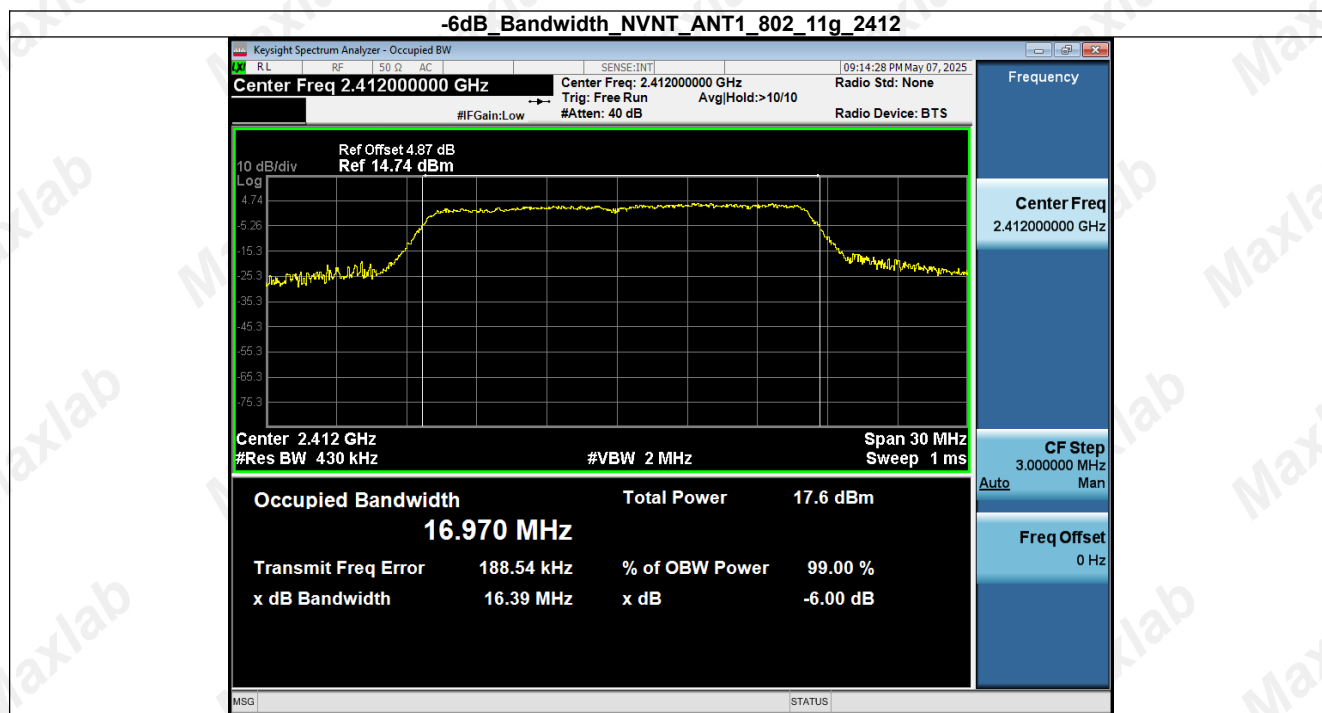
1. -6dB Bandwidth	2
2. 99% Occupied Bandwidth	9
3. Duty Cycle	16
4. MAX. Output Power	23
5. Power Spectral Density	24
6. Bandedge	31
7. Spurious Emission	39

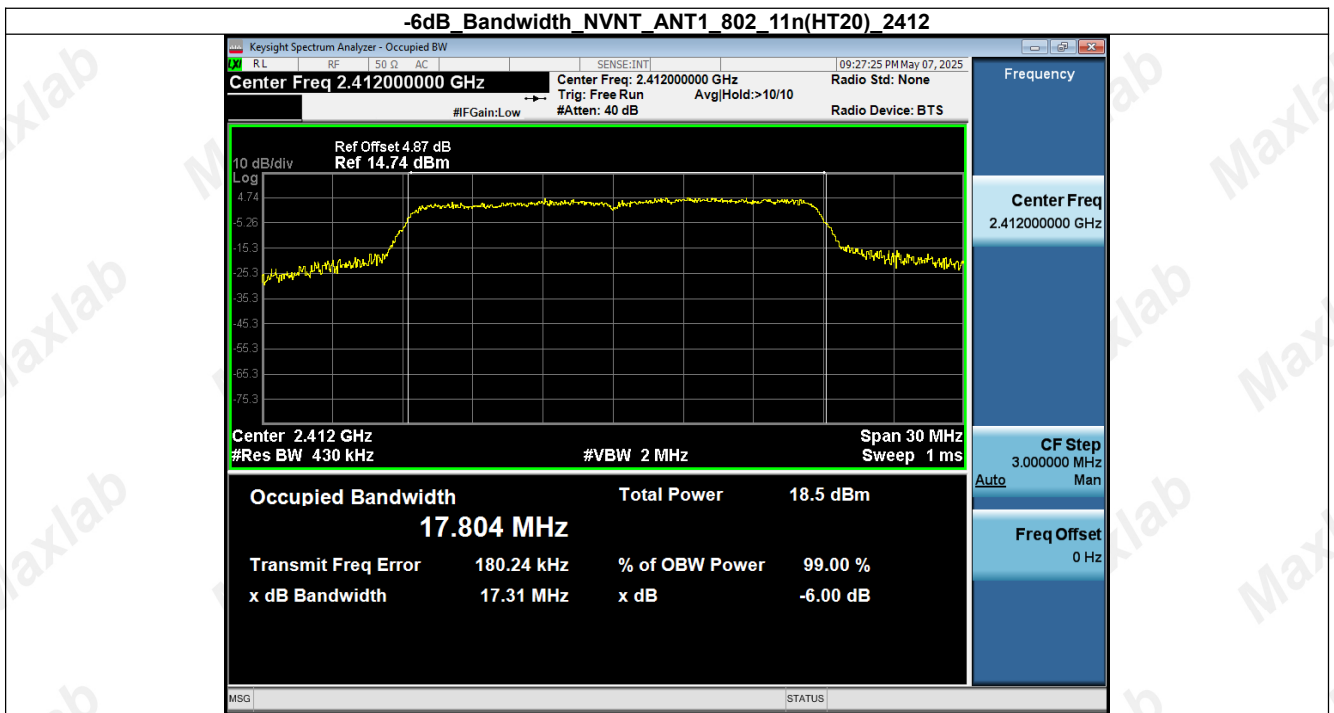
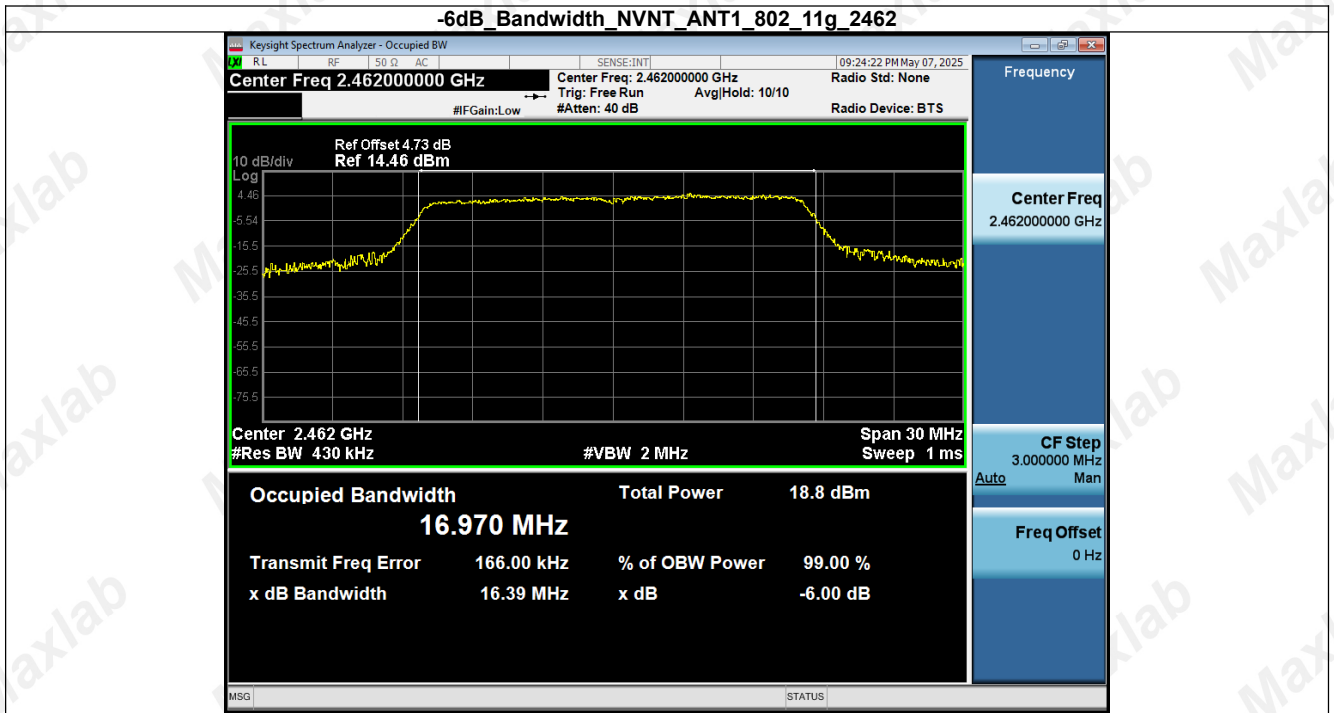
1. -6dB Bandwidth

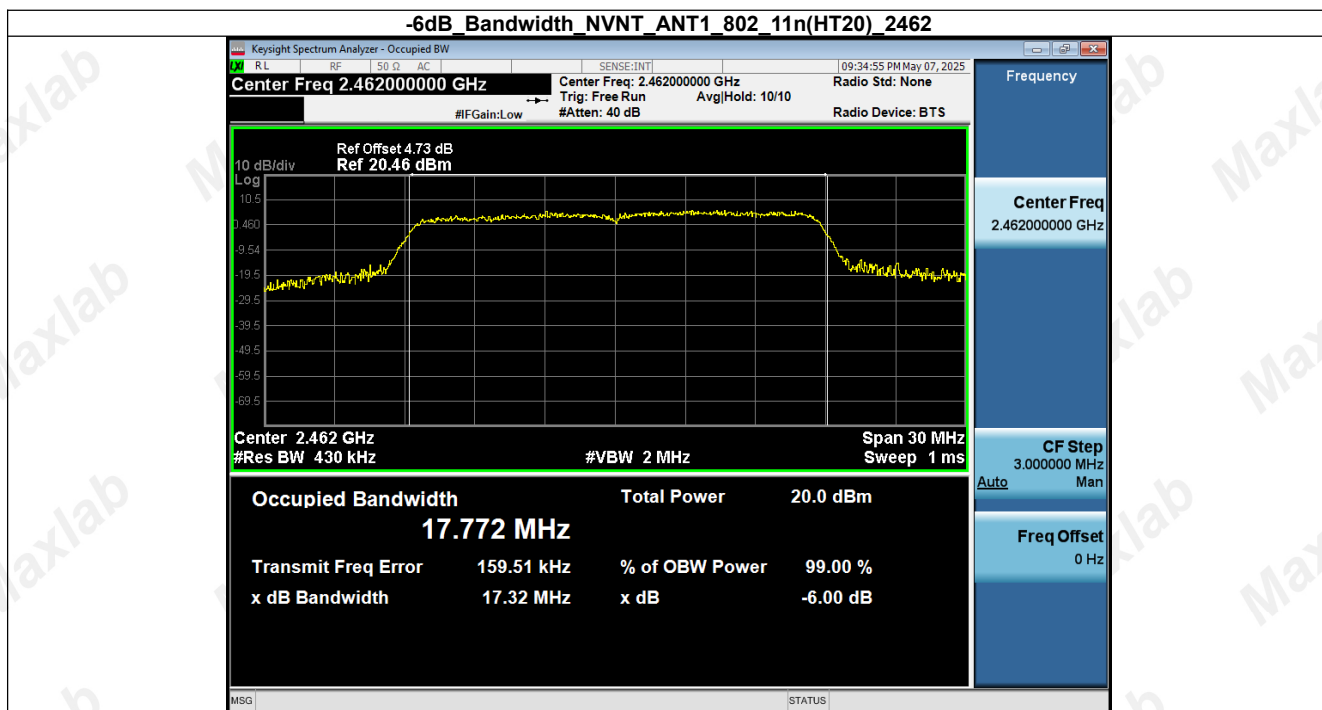
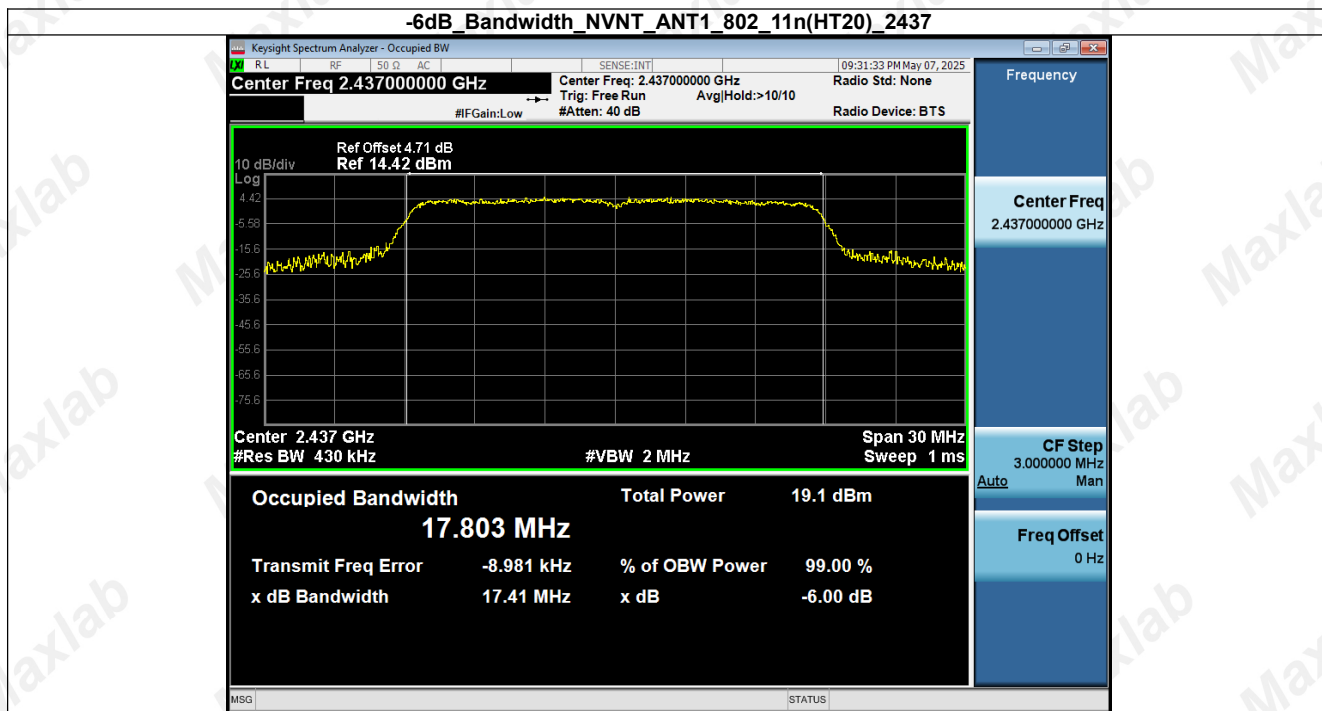
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.19	500	Pass
NVNT	ANT1	802.11b	2437.00	8.73	500	Pass
NVNT	ANT1	802.11b	2462.00	9.22	500	Pass
NVNT	ANT1	802.11g	2412.00	16.39	500	Pass
NVNT	ANT1	802.11g	2437.00	16.47	500	Pass
NVNT	ANT1	802.11g	2462.00	16.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.31	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.41	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.32	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.28	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.05	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.03	500	Pass

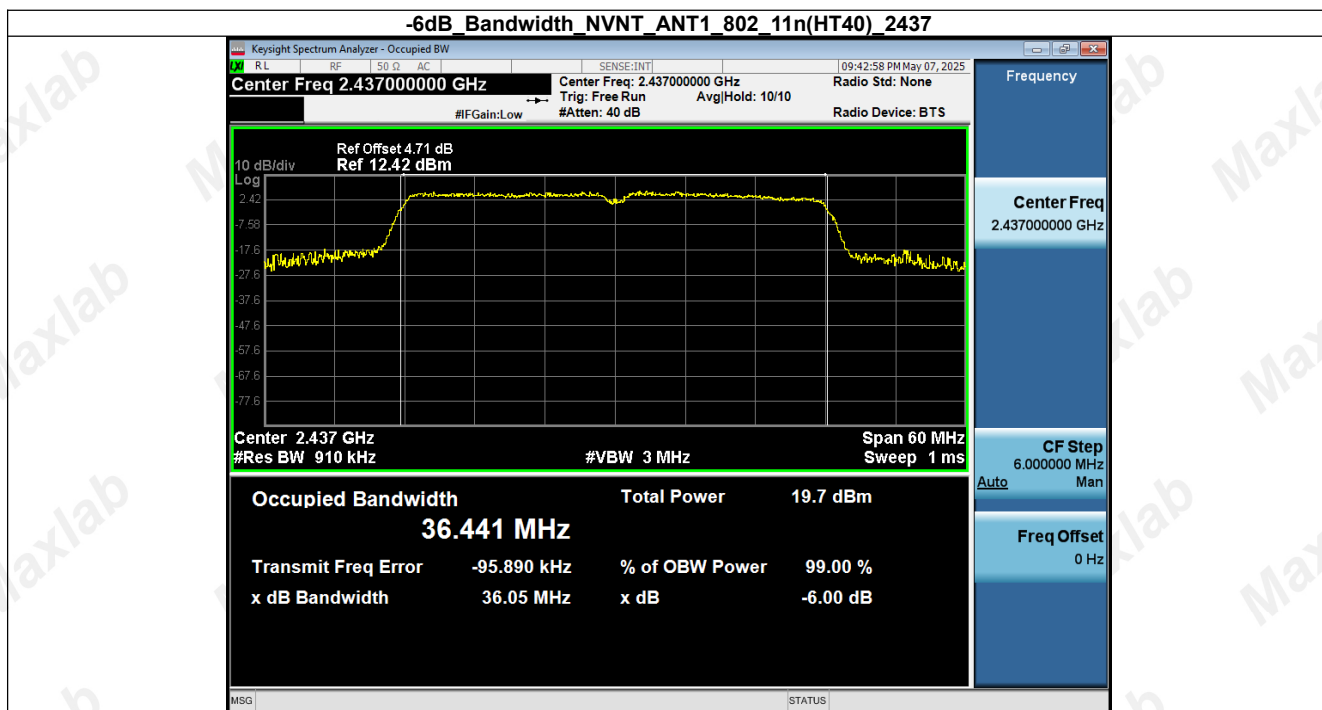
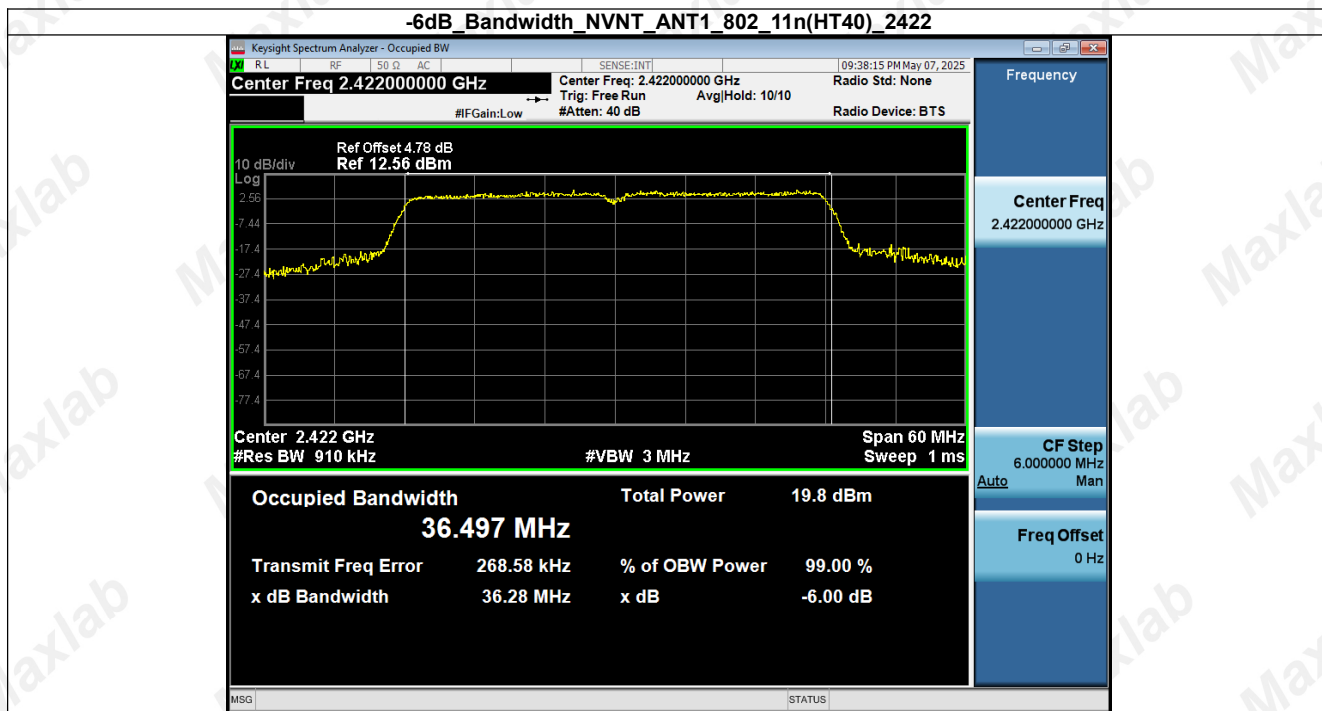


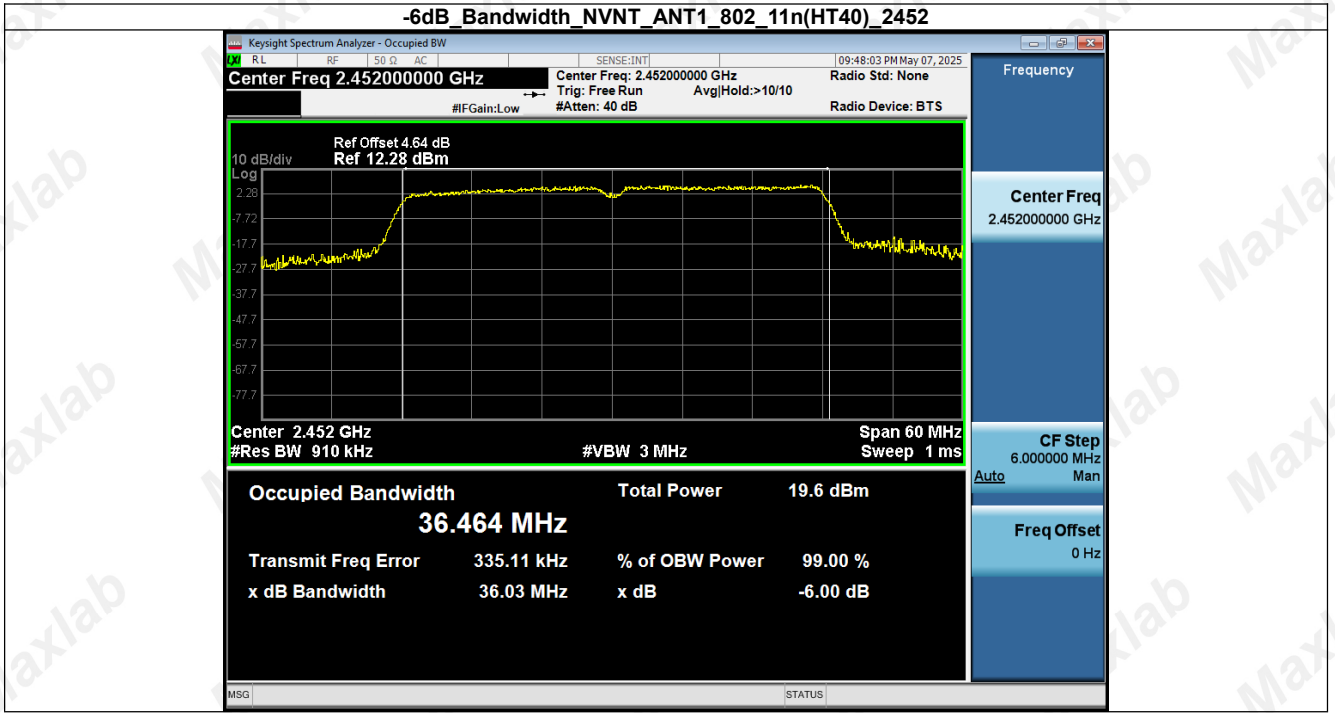






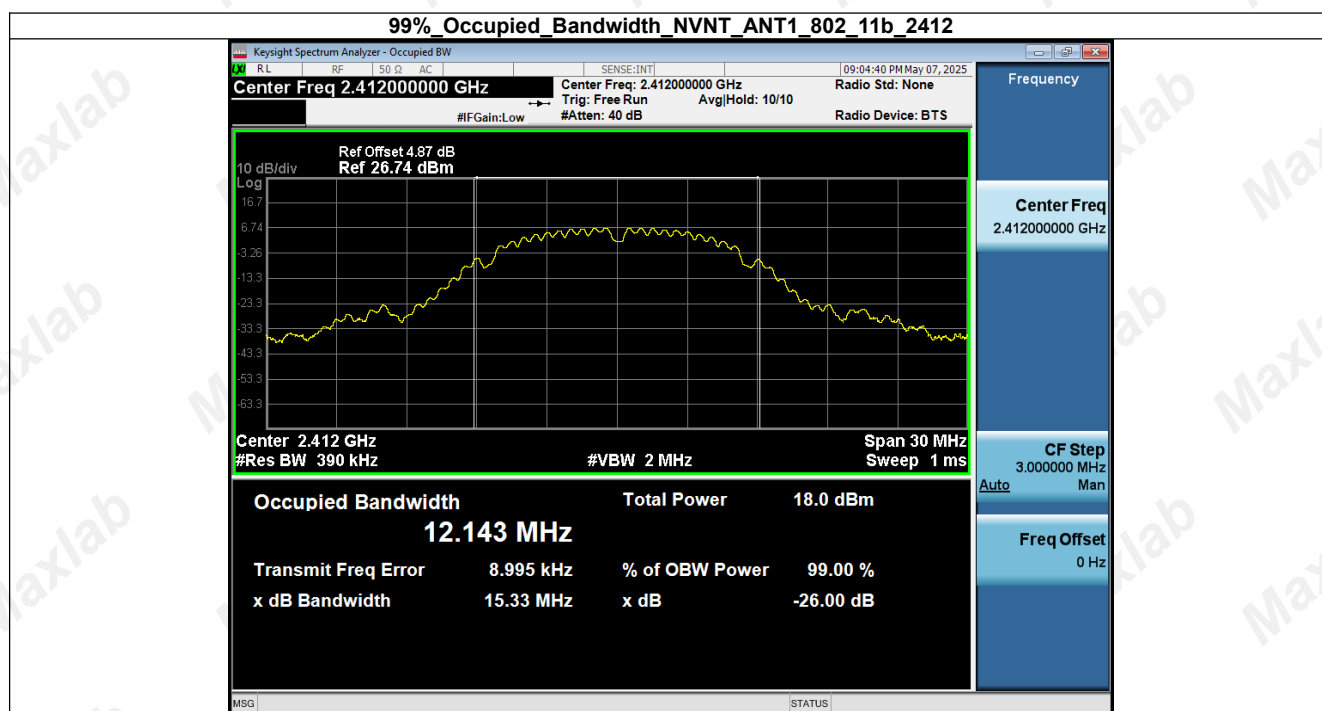


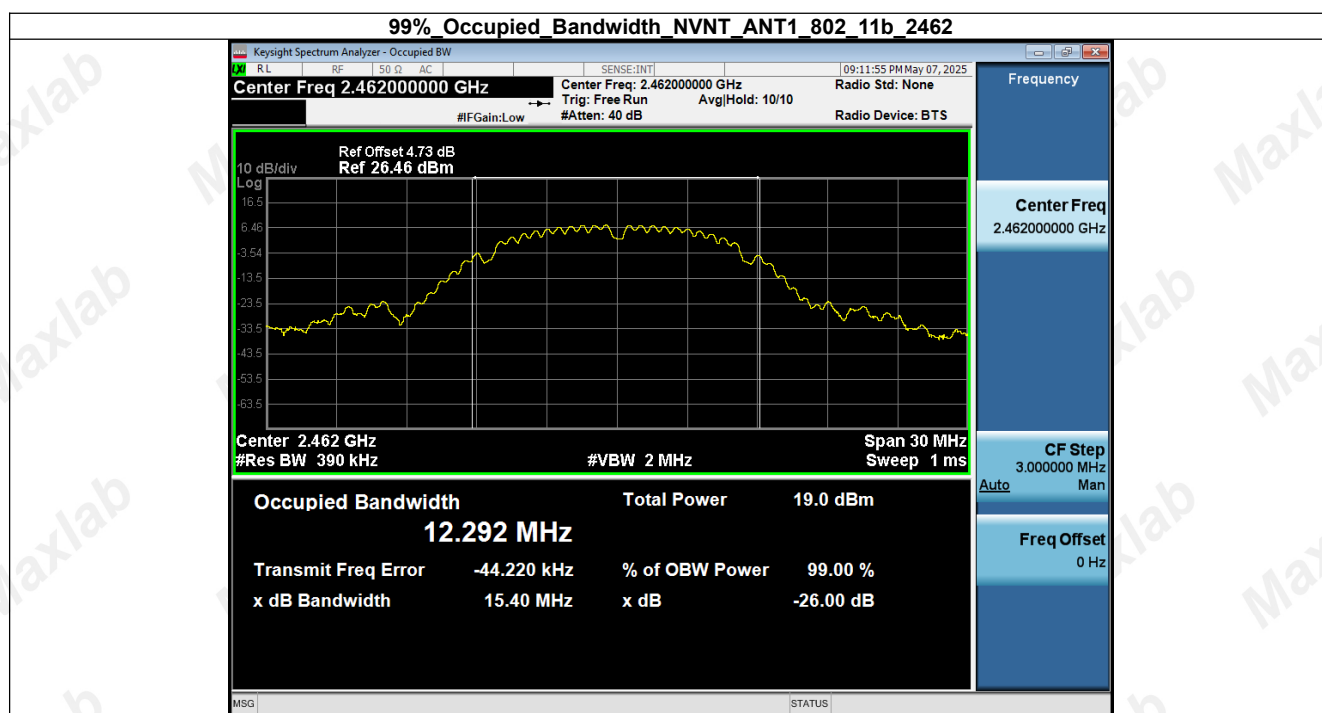
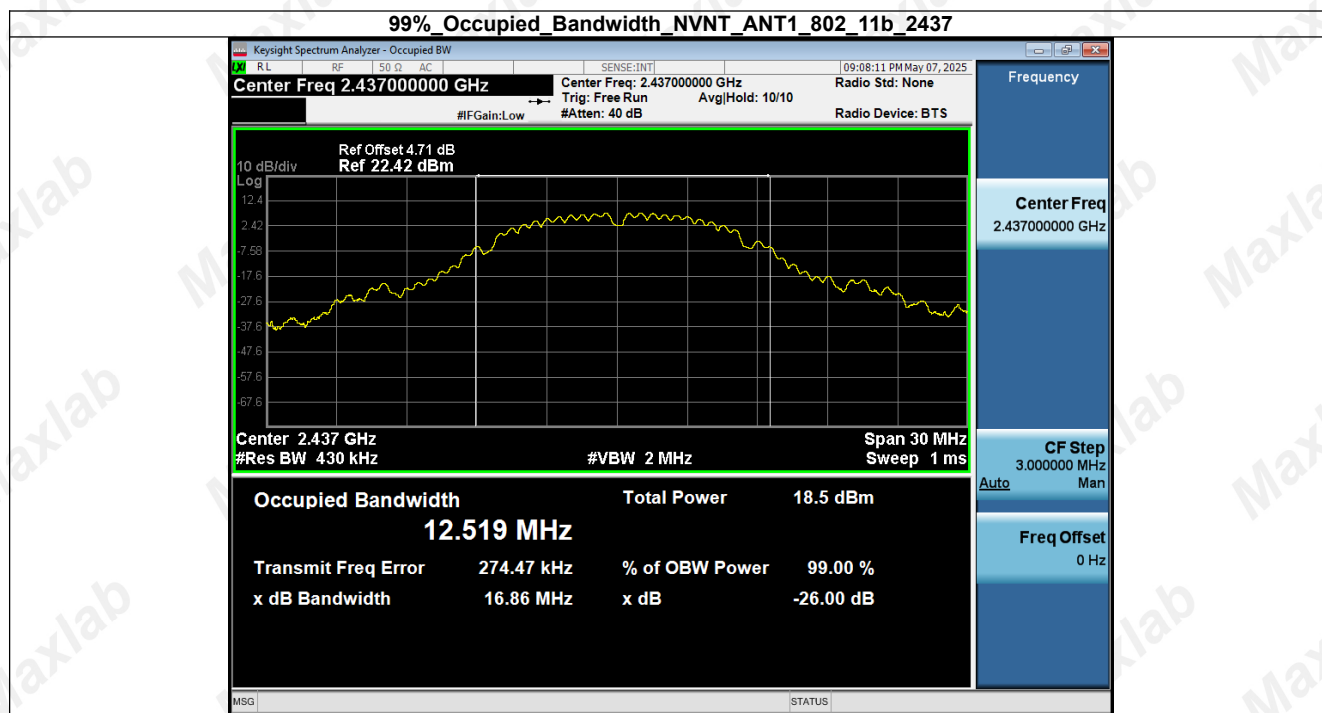


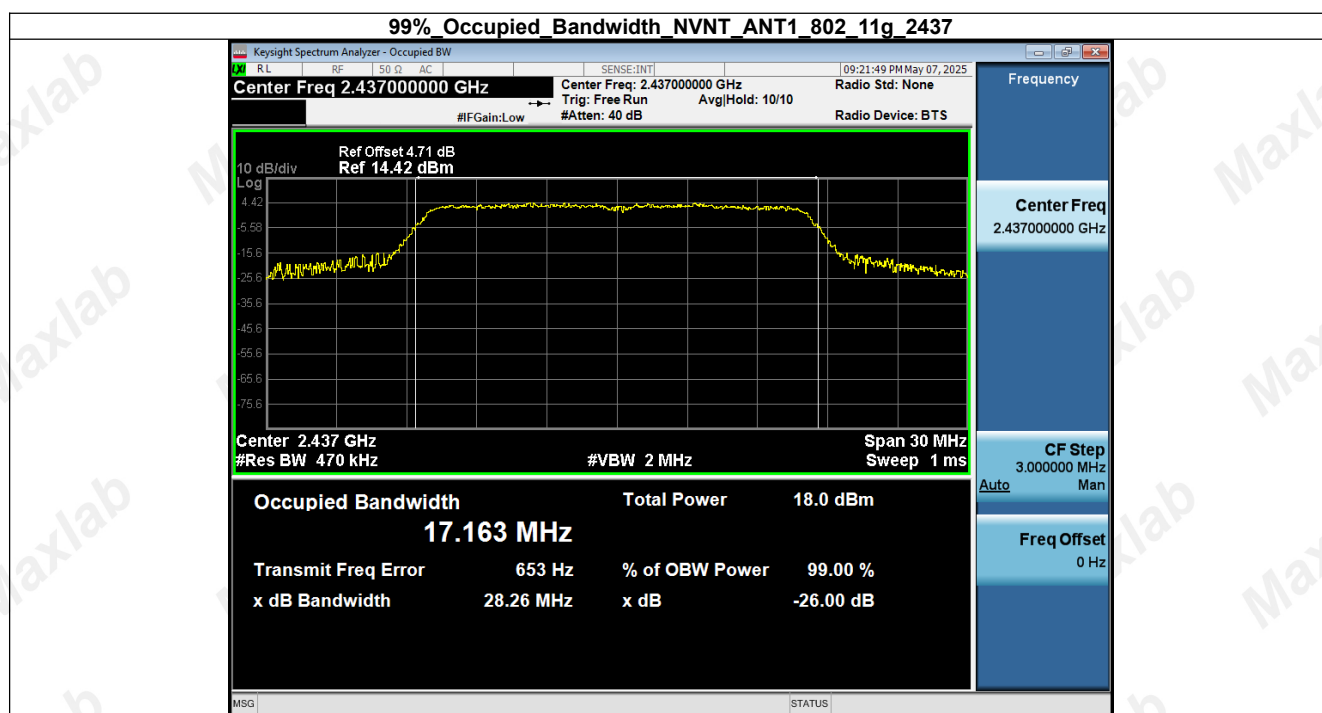
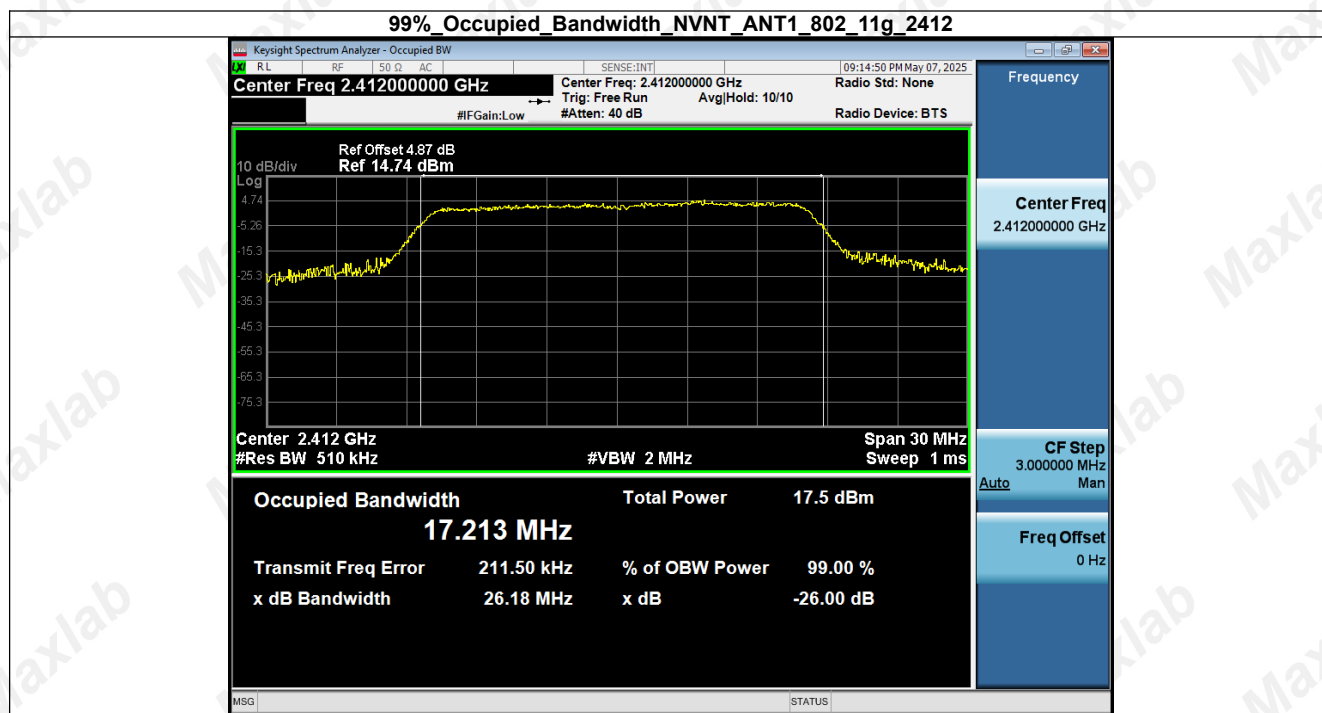


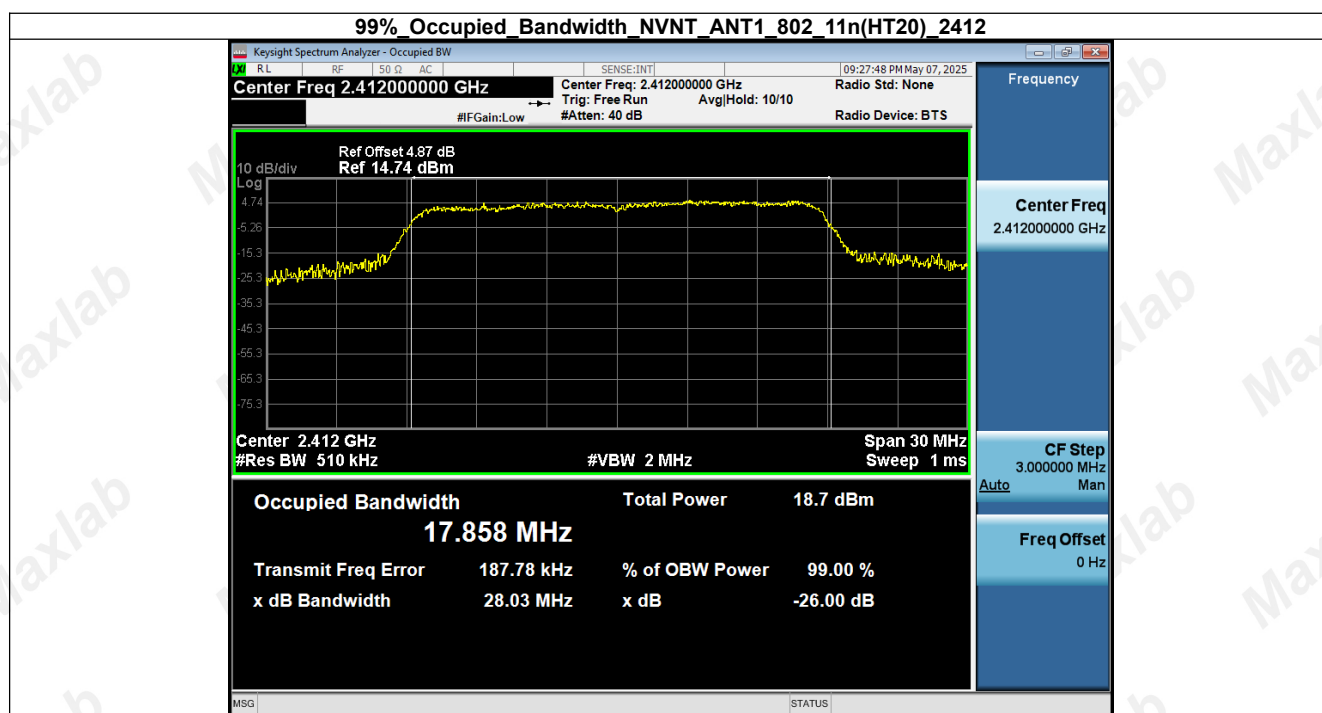
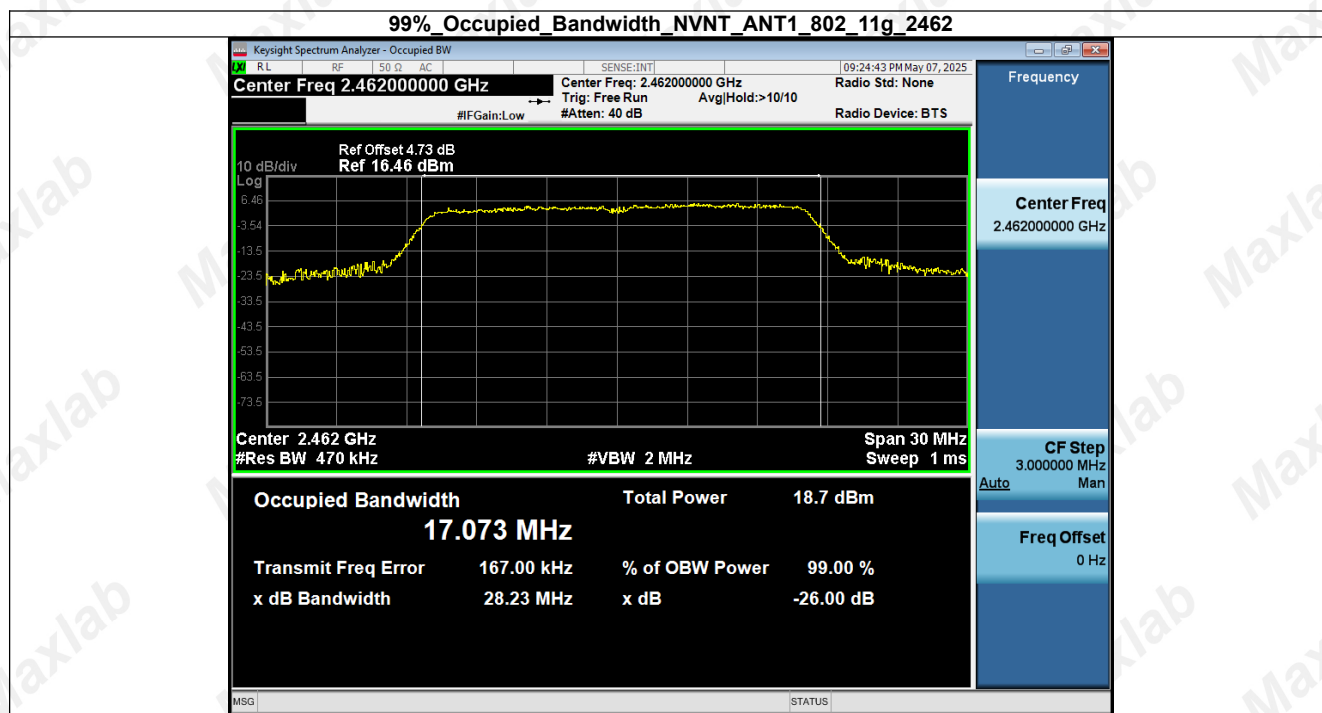
2. 99% Occupied Bandwidth

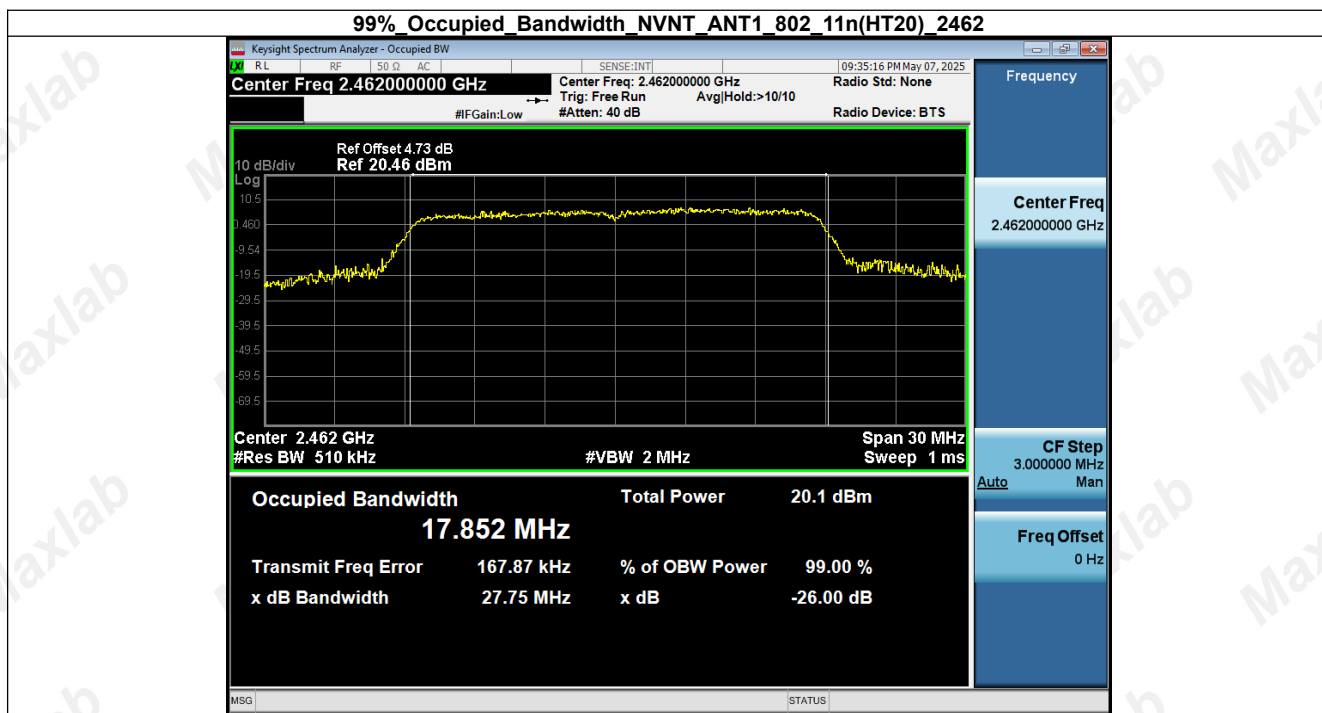
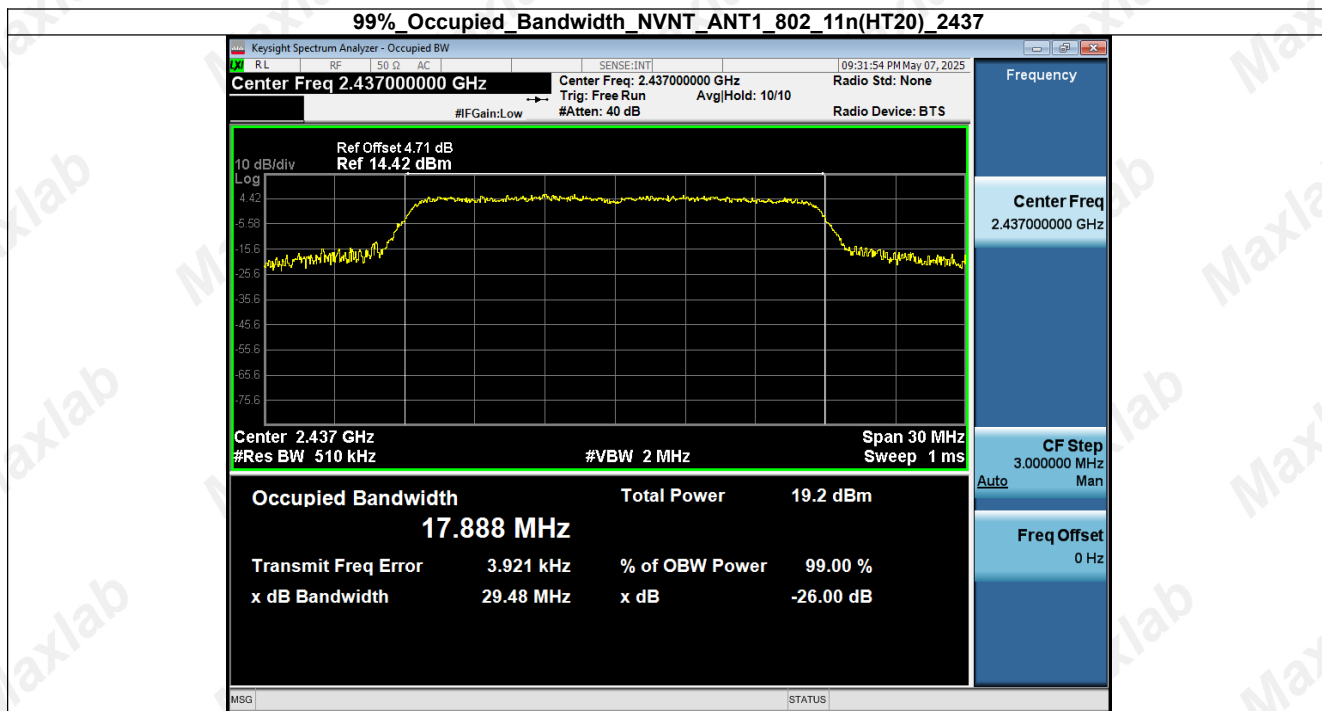
Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.143
NVNT	ANT1	802.11b	2437.00	12.519
NVNT	ANT1	802.11b	2462.00	12.292
NVNT	ANT1	802.11g	2412.00	17.213
NVNT	ANT1	802.11g	2437.00	17.163
NVNT	ANT1	802.11g	2462.00	17.073
NVNT	ANT1	802.11n(HT20)	2412.00	17.858
NVNT	ANT1	802.11n(HT20)	2437.00	17.888
NVNT	ANT1	802.11n(HT20)	2462.00	17.852
NVNT	ANT1	802.11n(HT40)	2422.00	36.539
NVNT	ANT1	802.11n(HT40)	2437.00	36.485
NVNT	ANT1	802.11n(HT40)	2452.00	36.518

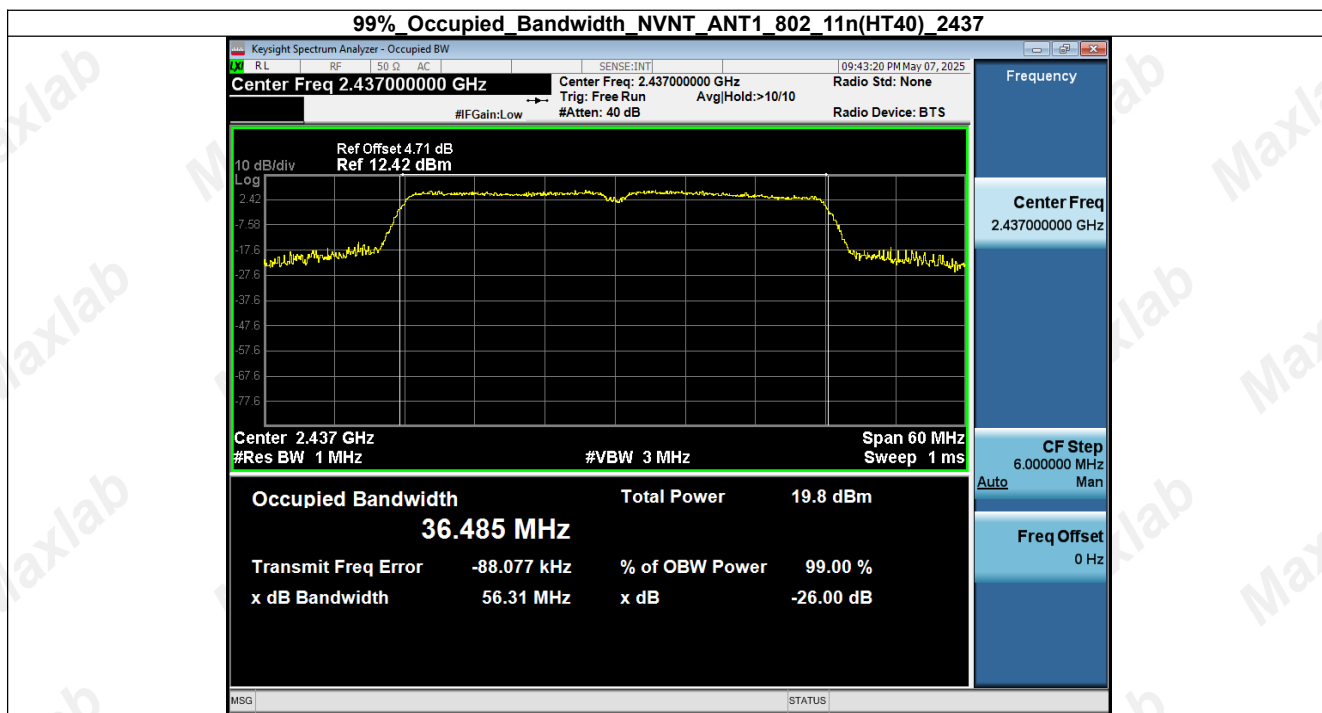
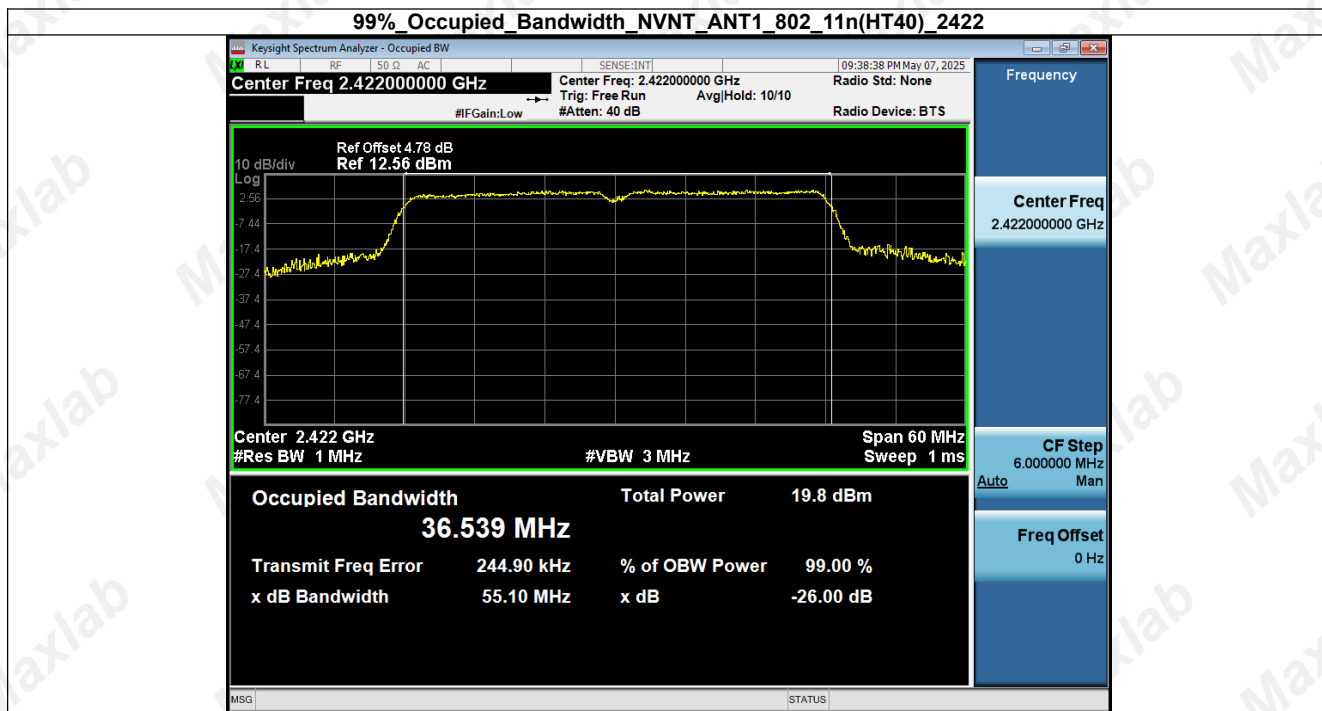


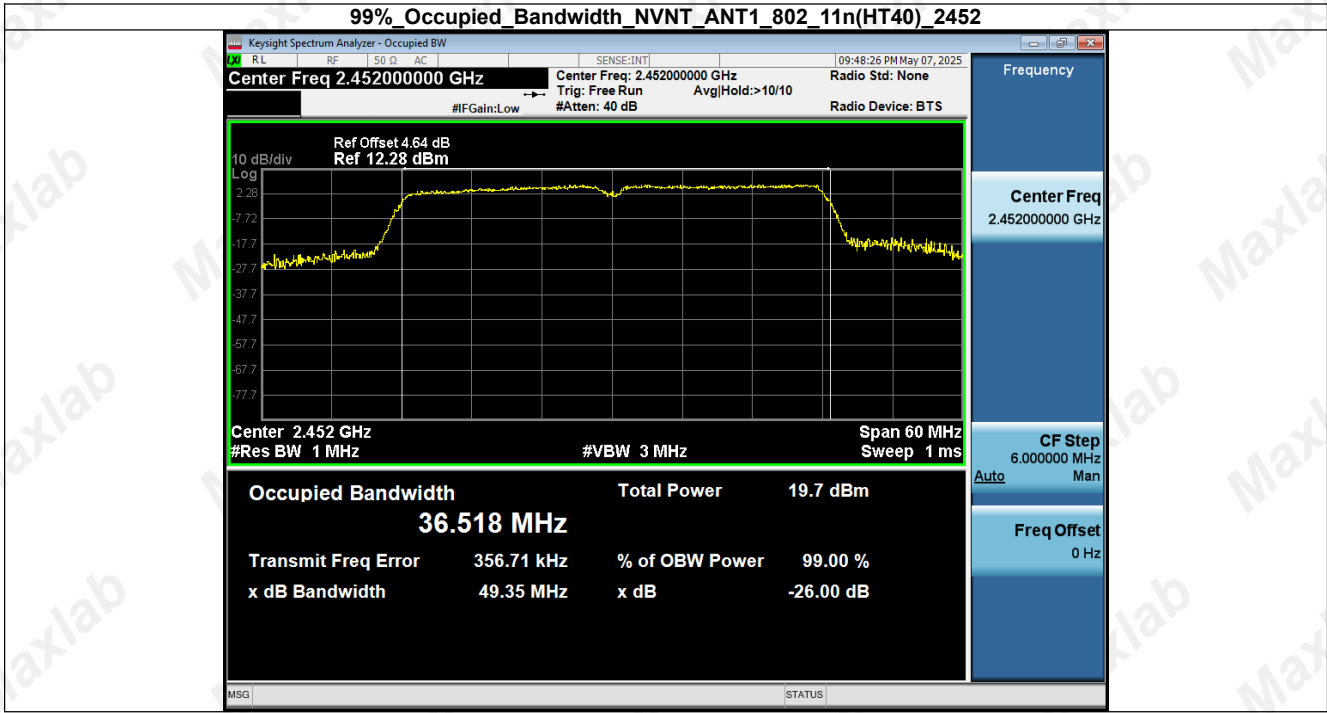






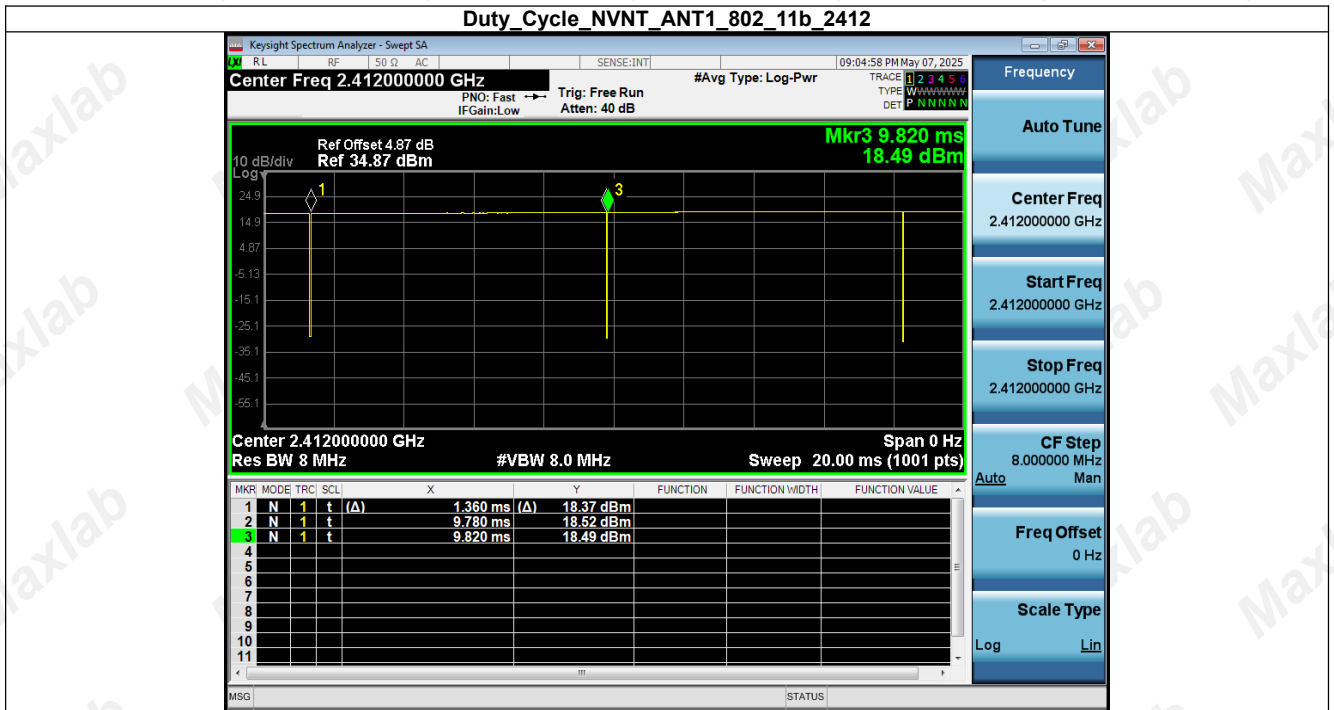


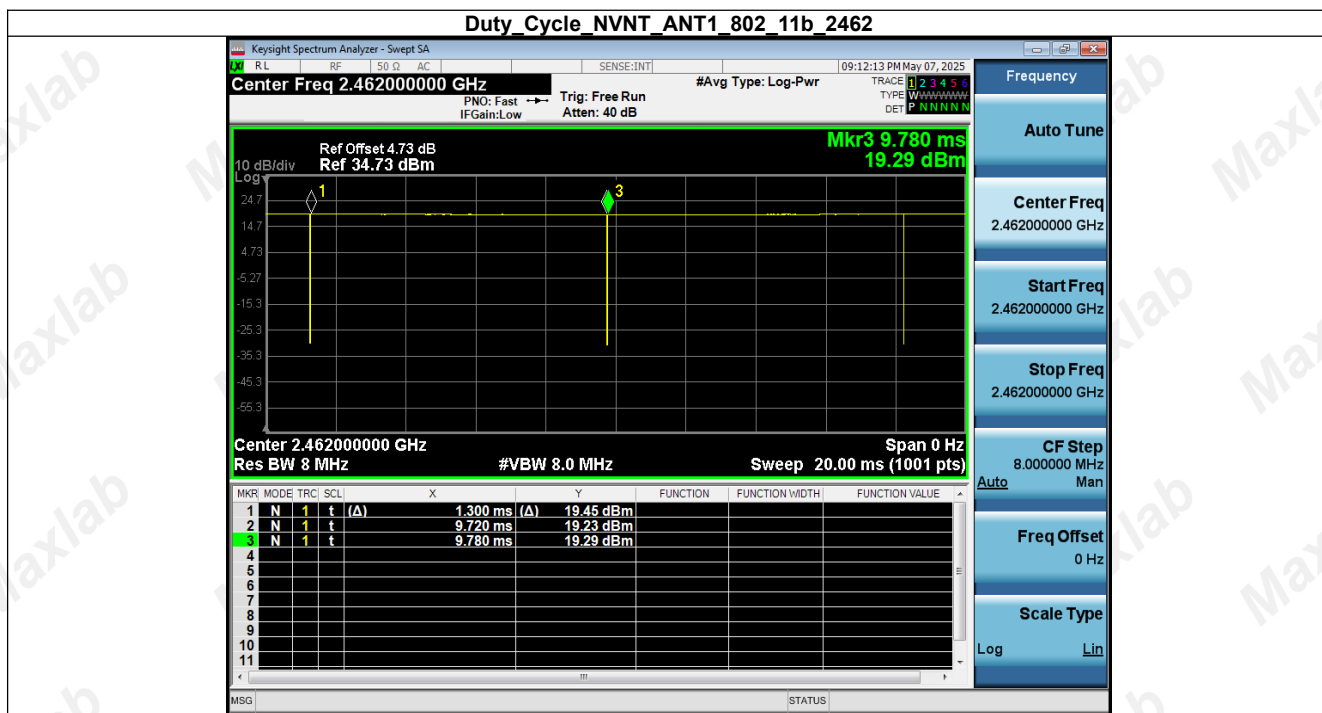
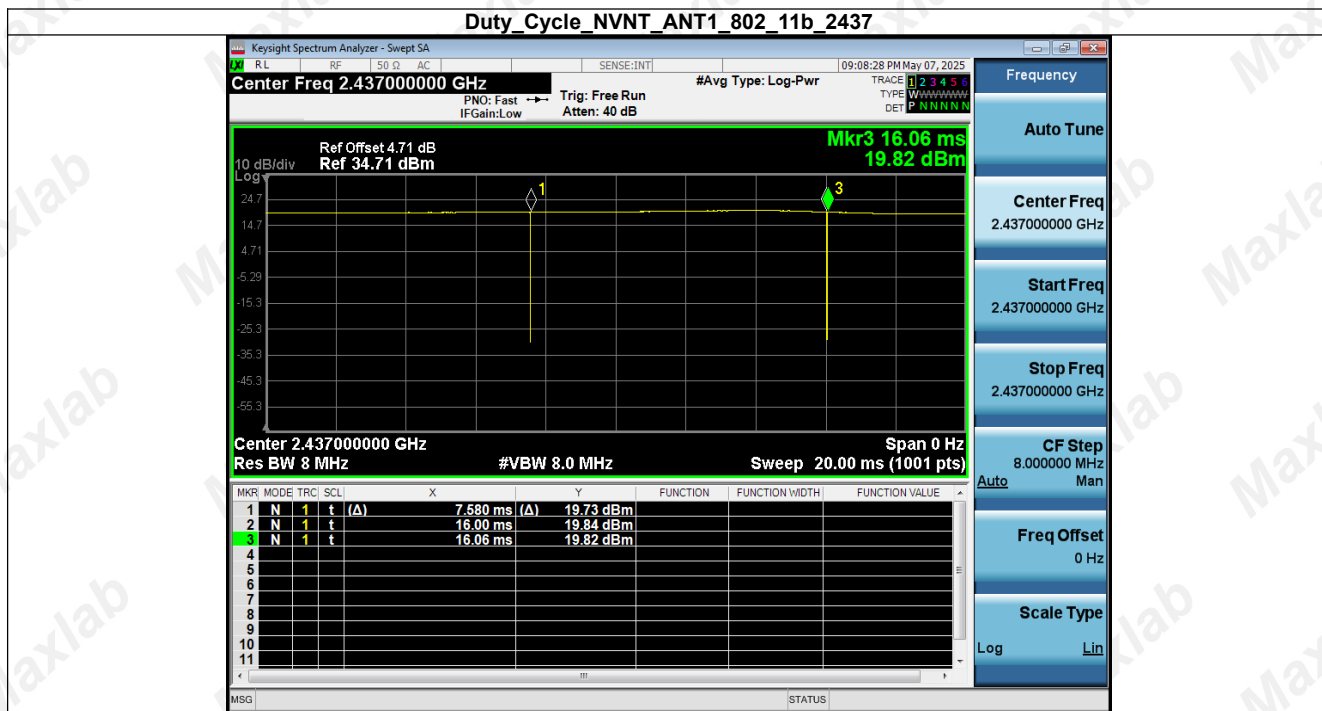


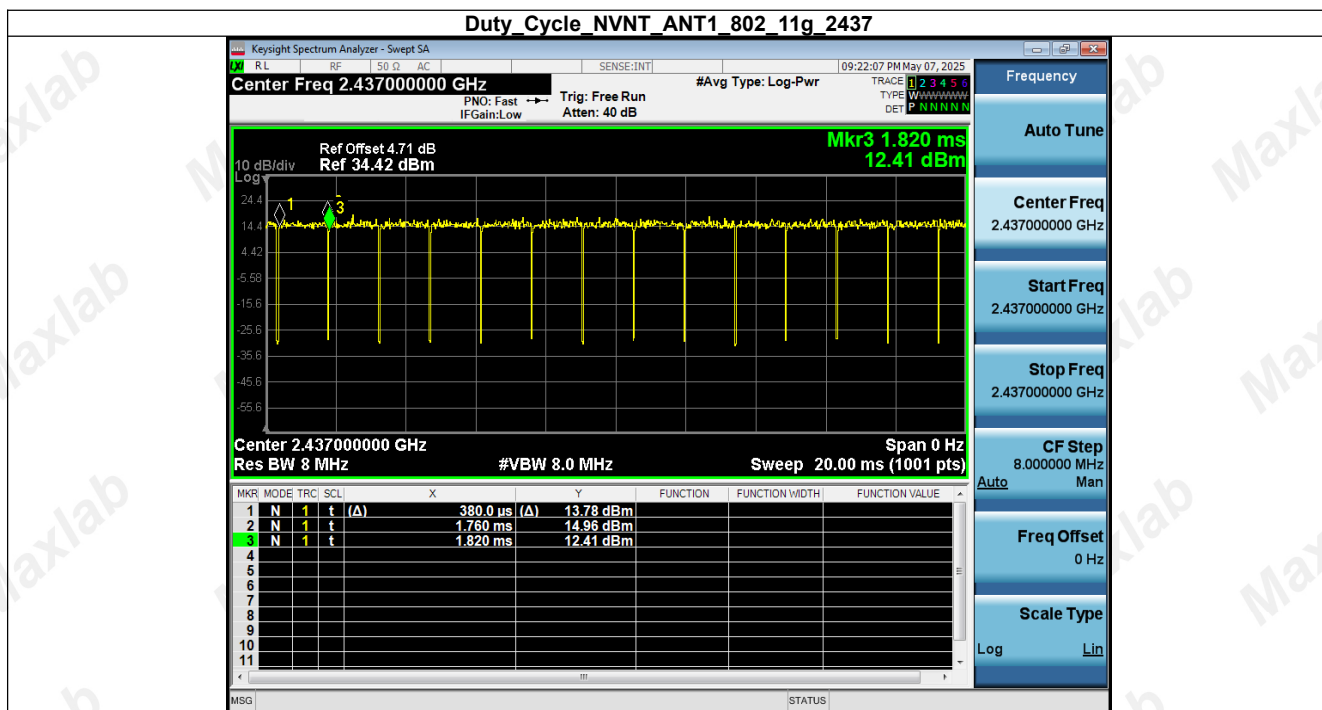
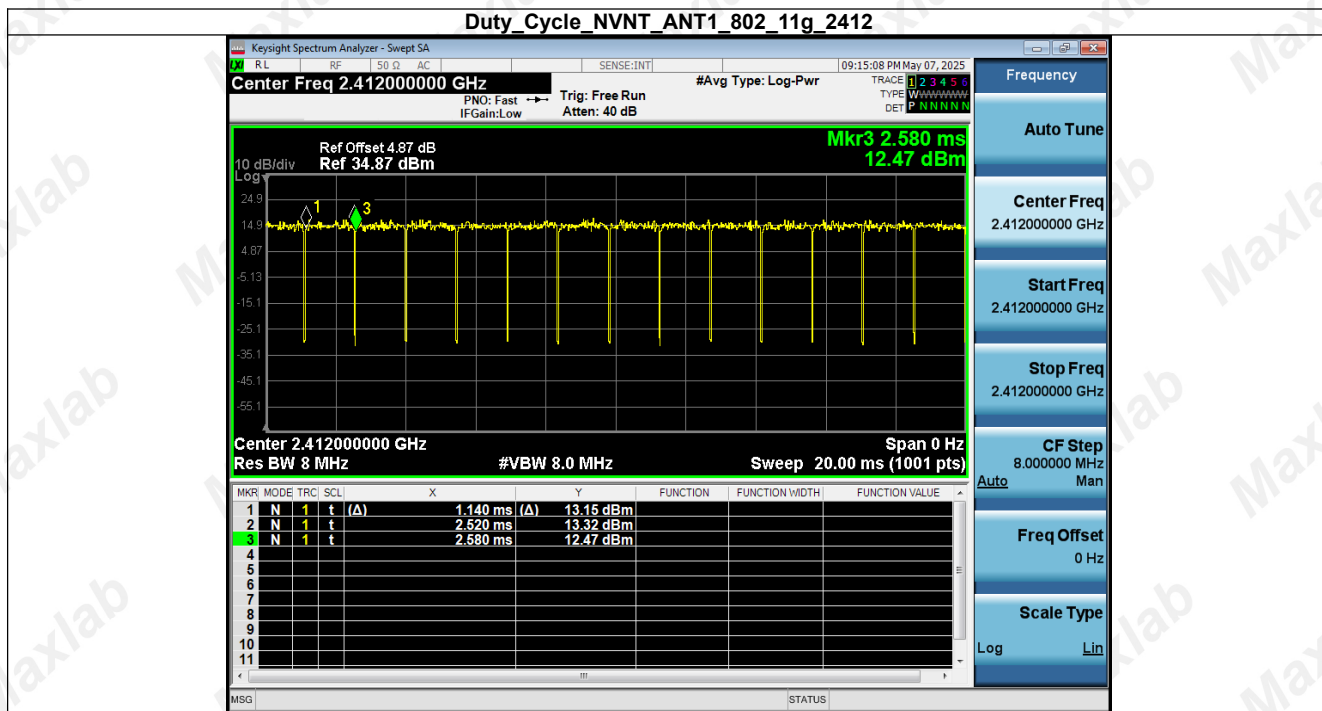


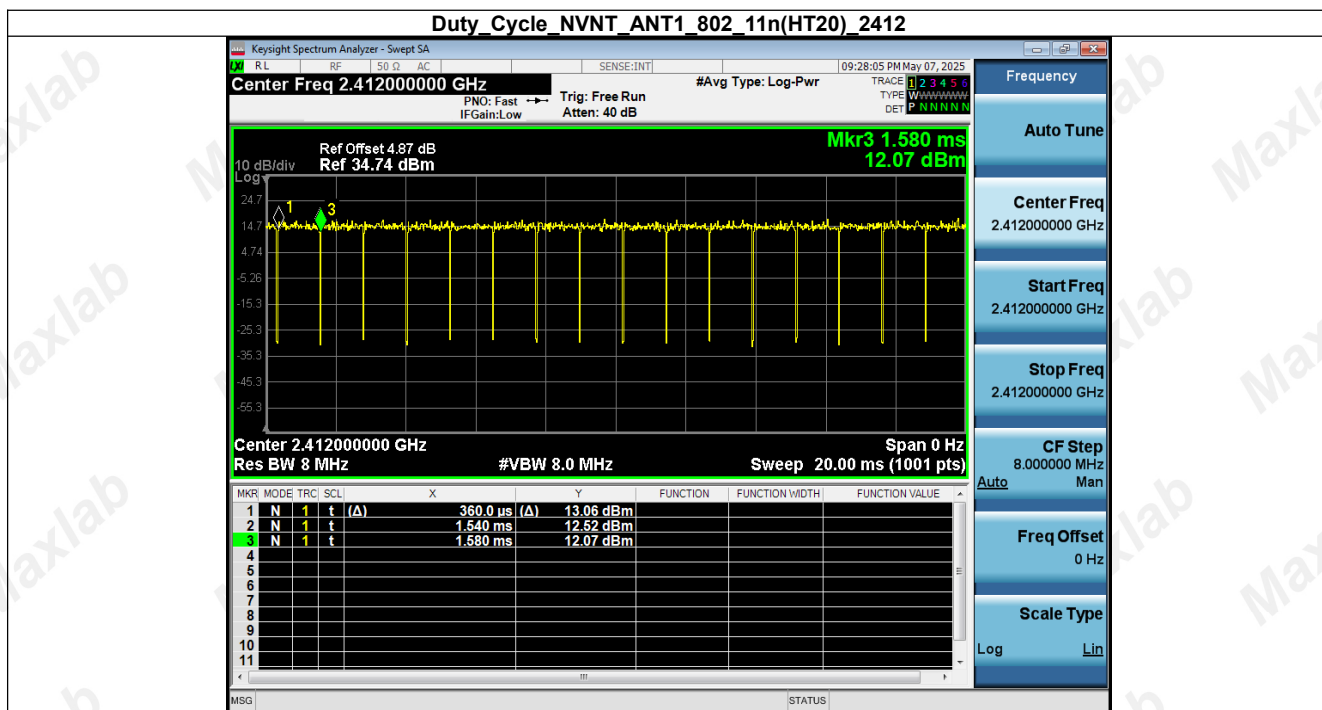
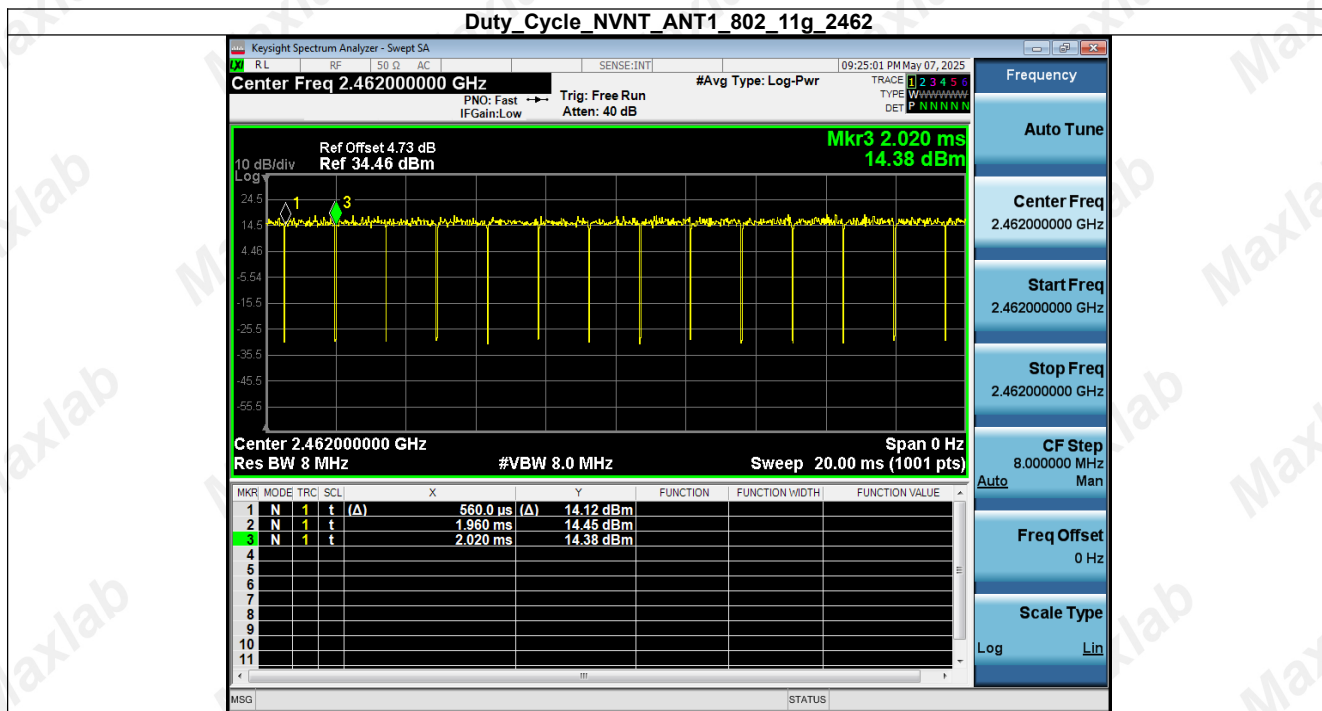
3. Duty Cycle

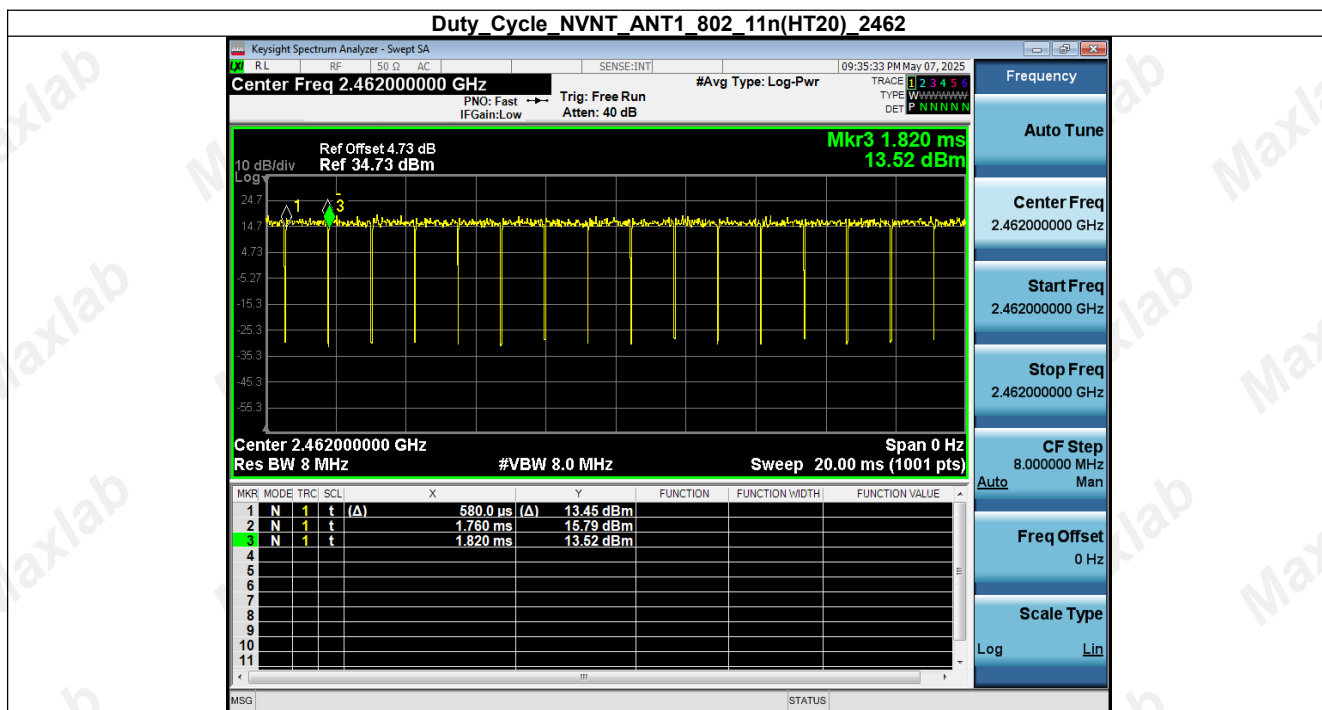
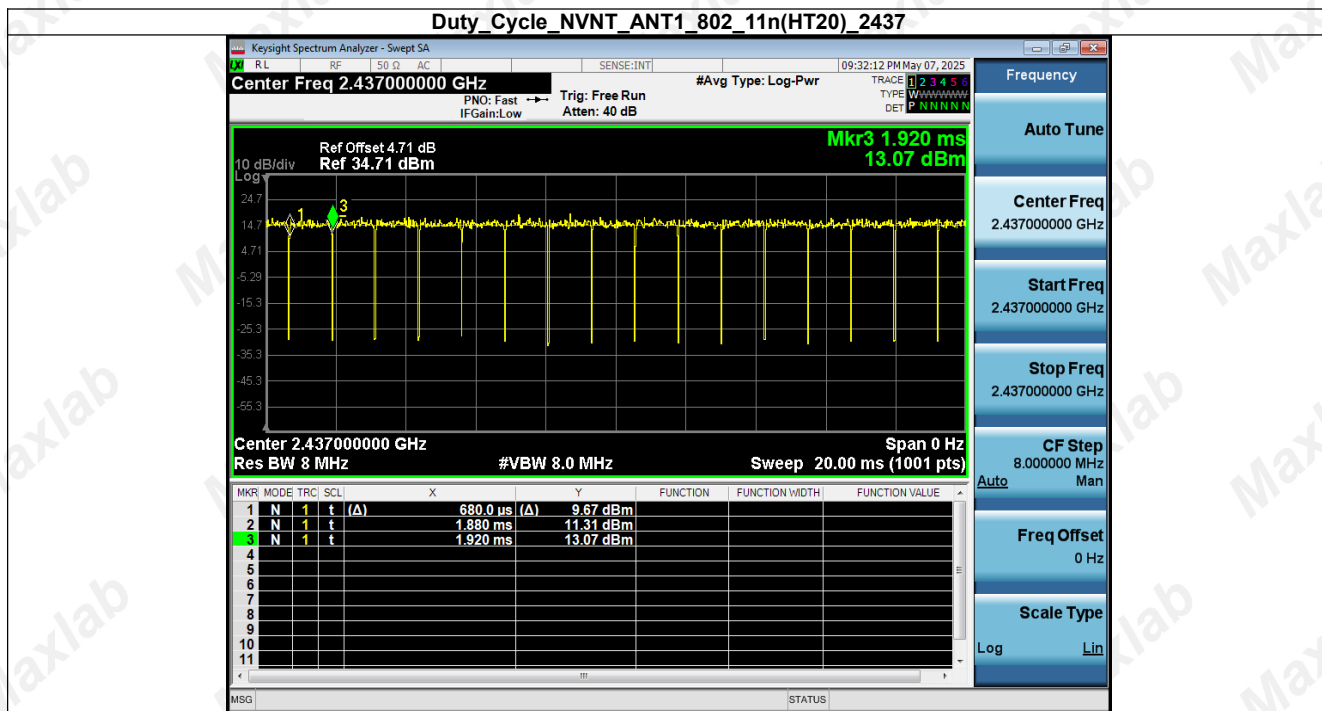
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.22	0.12
NVNT	ANT1	802.11g	2437.00	97.22	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	98.39	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14
NVNT	ANT1	802.11n(HT40)	2422.00	96.87	0.14
NVNT	ANT1	802.11n(HT40)	2437.00	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28

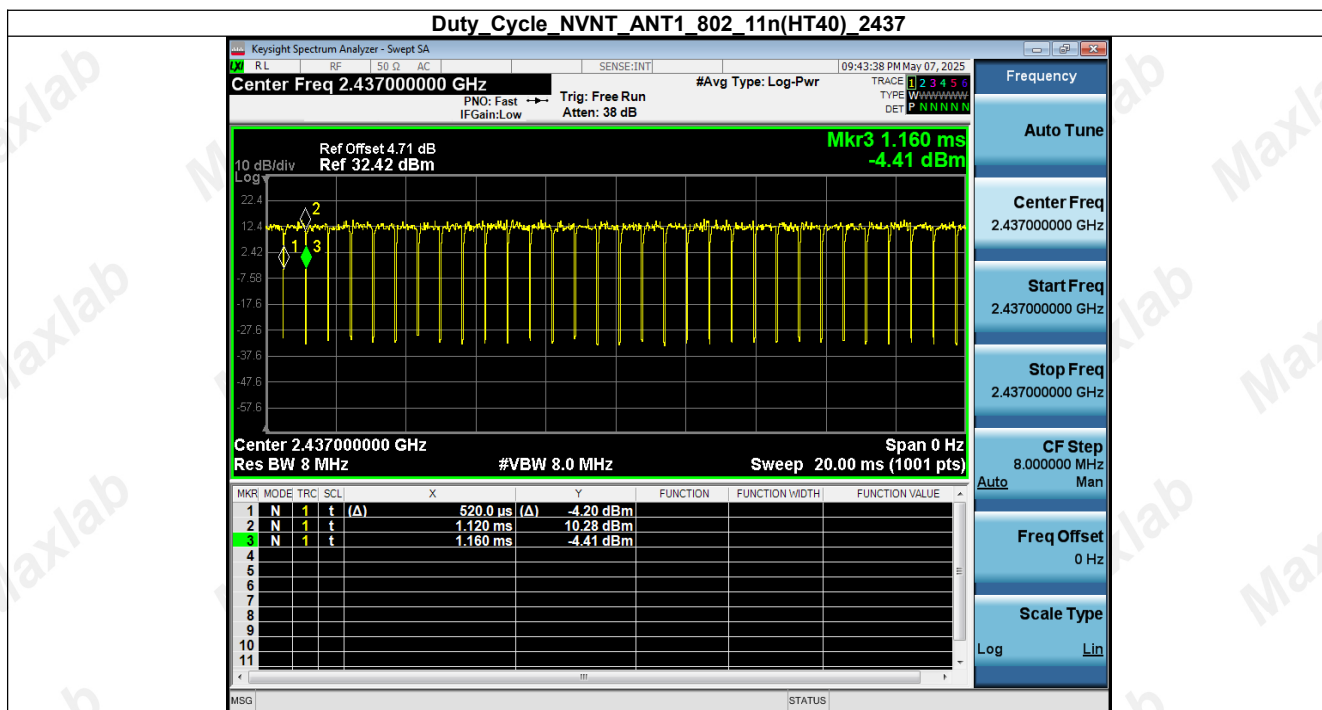
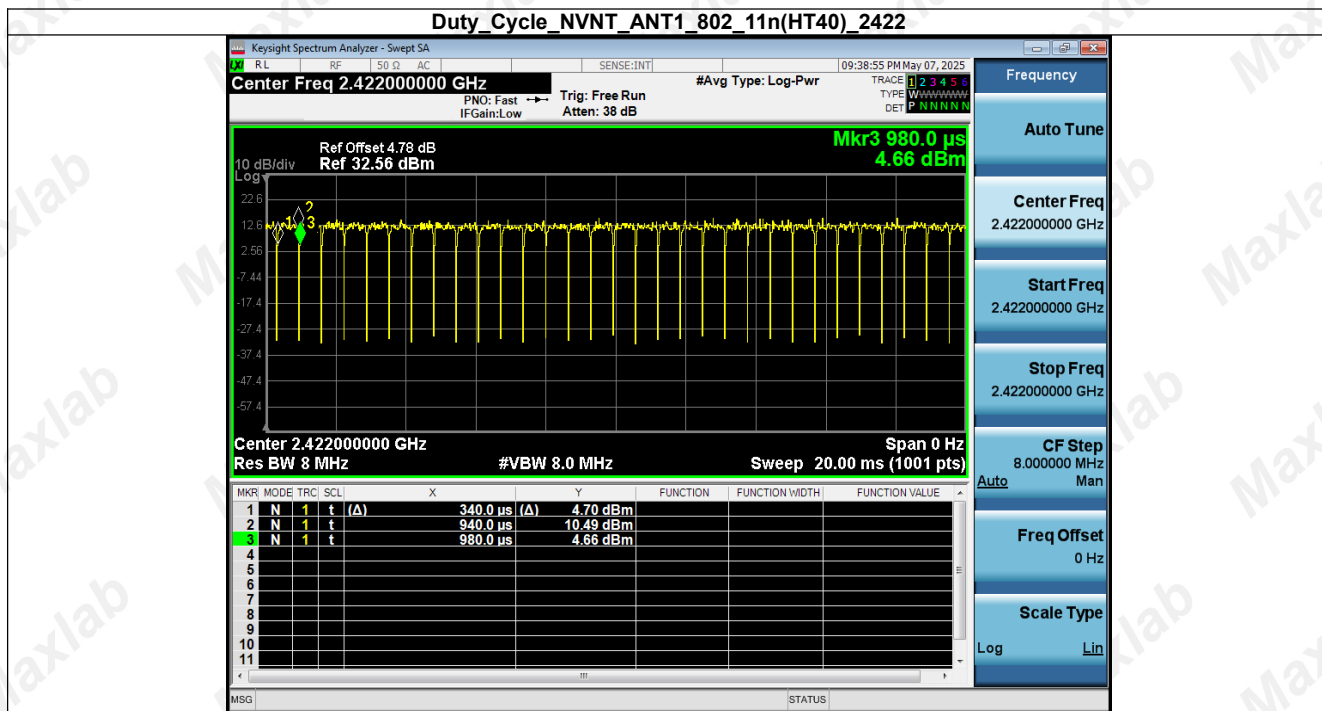


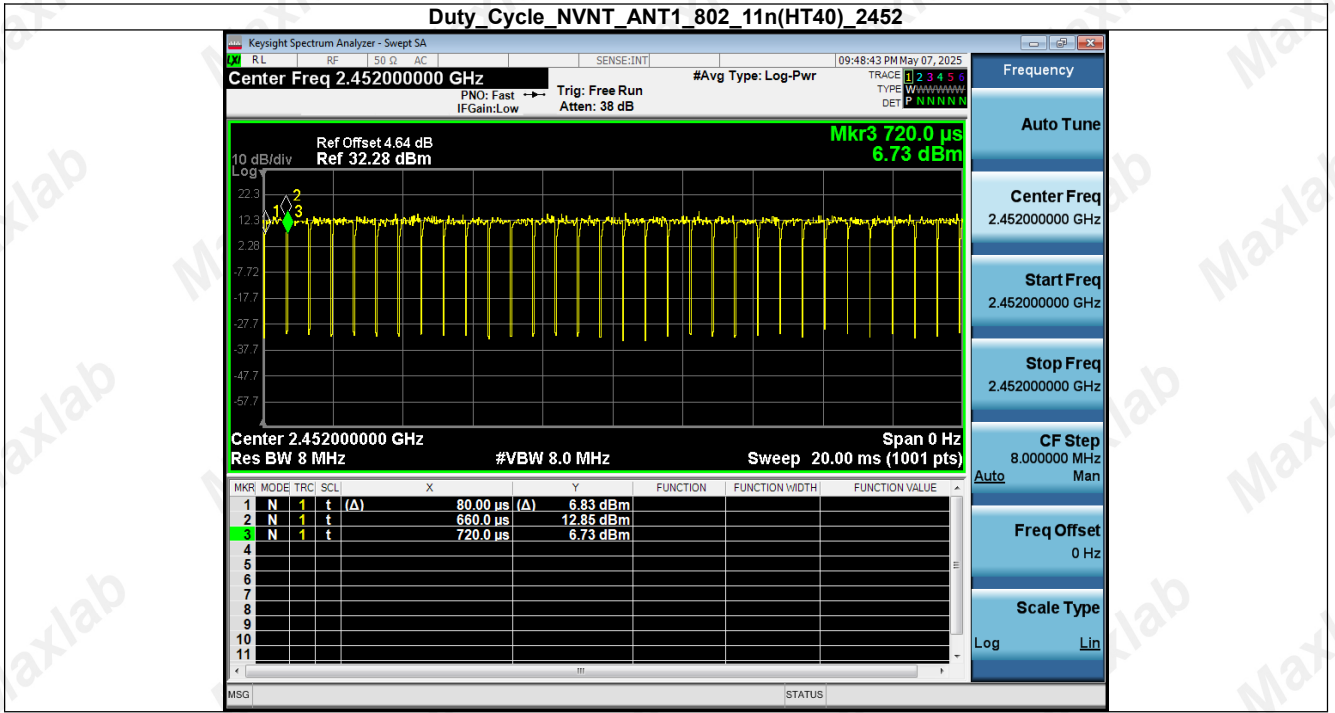












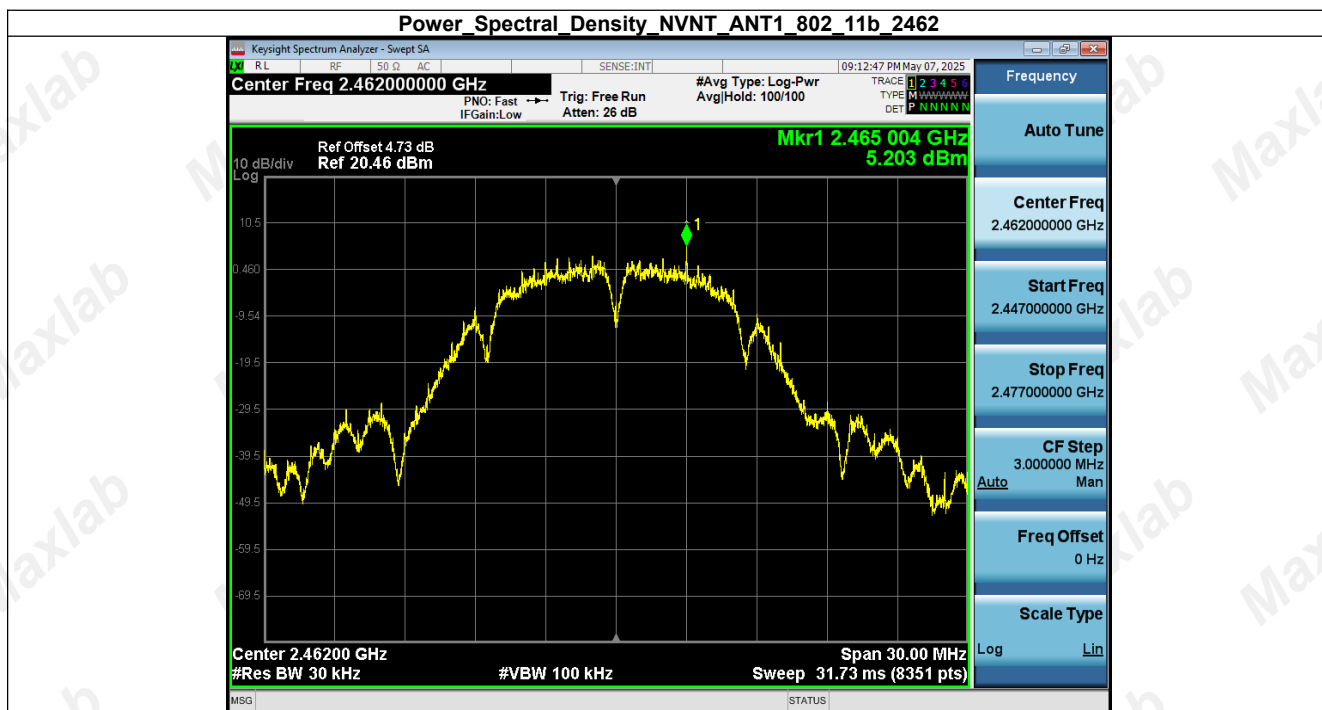
4. MAX. Output Power

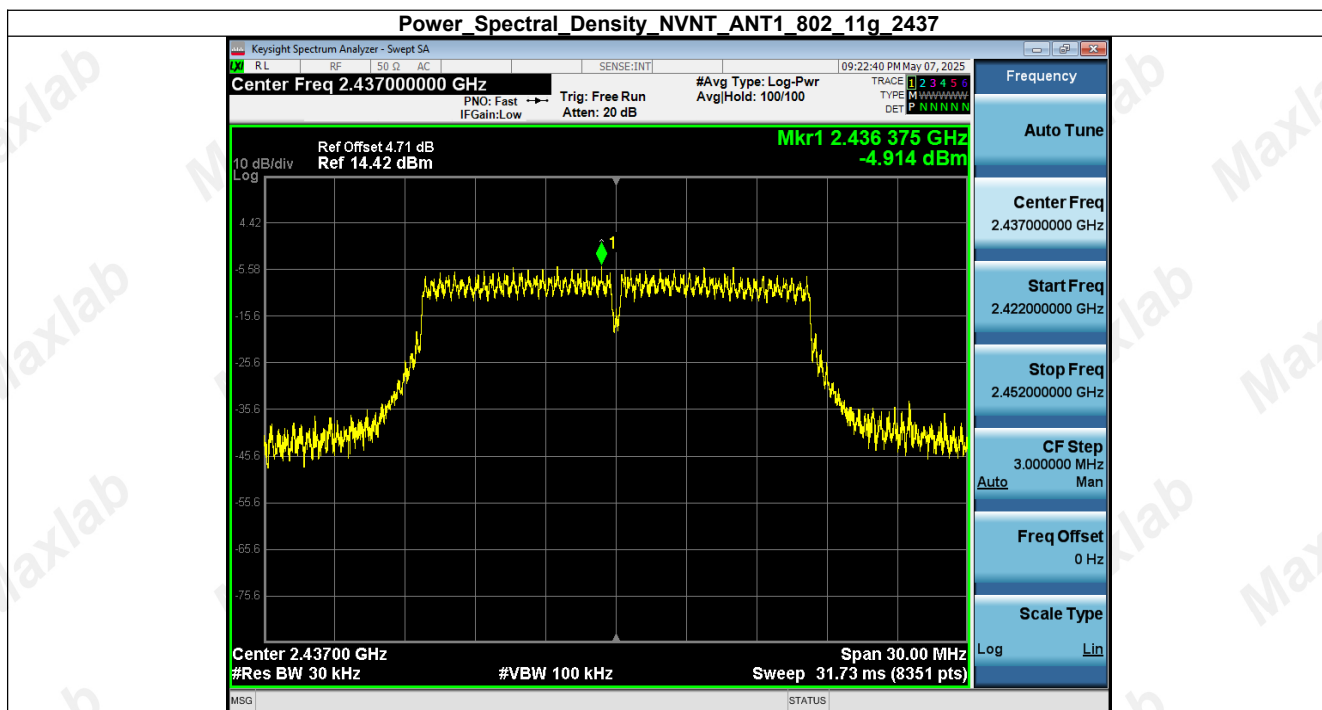
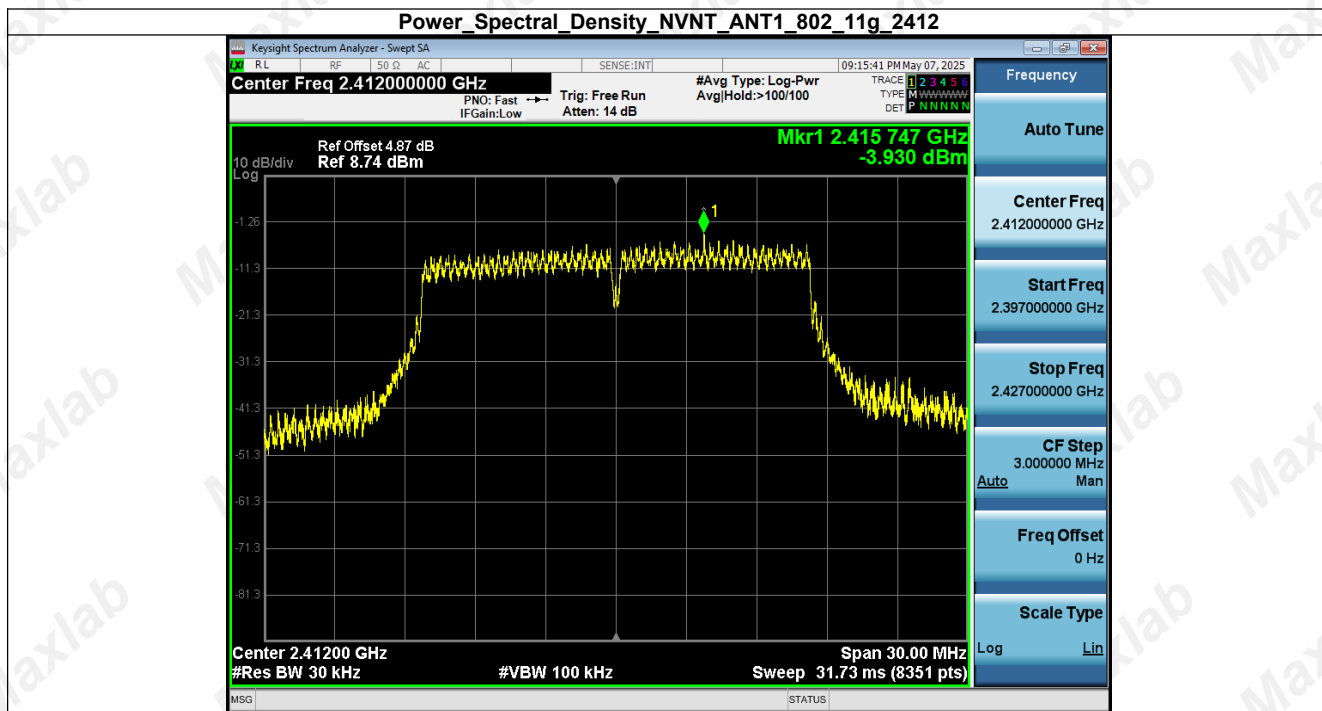
Condition	Antenna	Modulation	Frequency (MHz)	Detector	peak conducted output power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	17.38	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	18.06	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	18.39	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	17.15	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	17.59	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	18.41	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	18.18	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	18.67	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	19.62	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	18.87	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	18.76	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	18.72	30	Pass

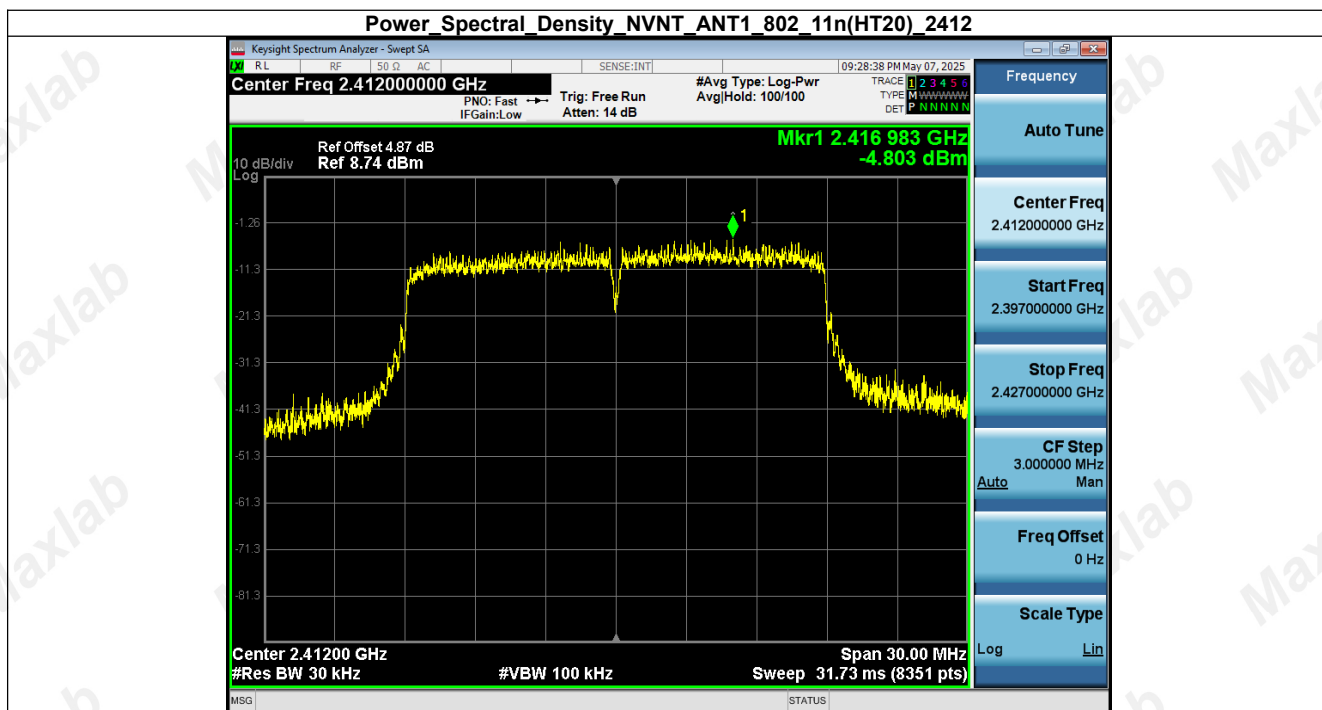
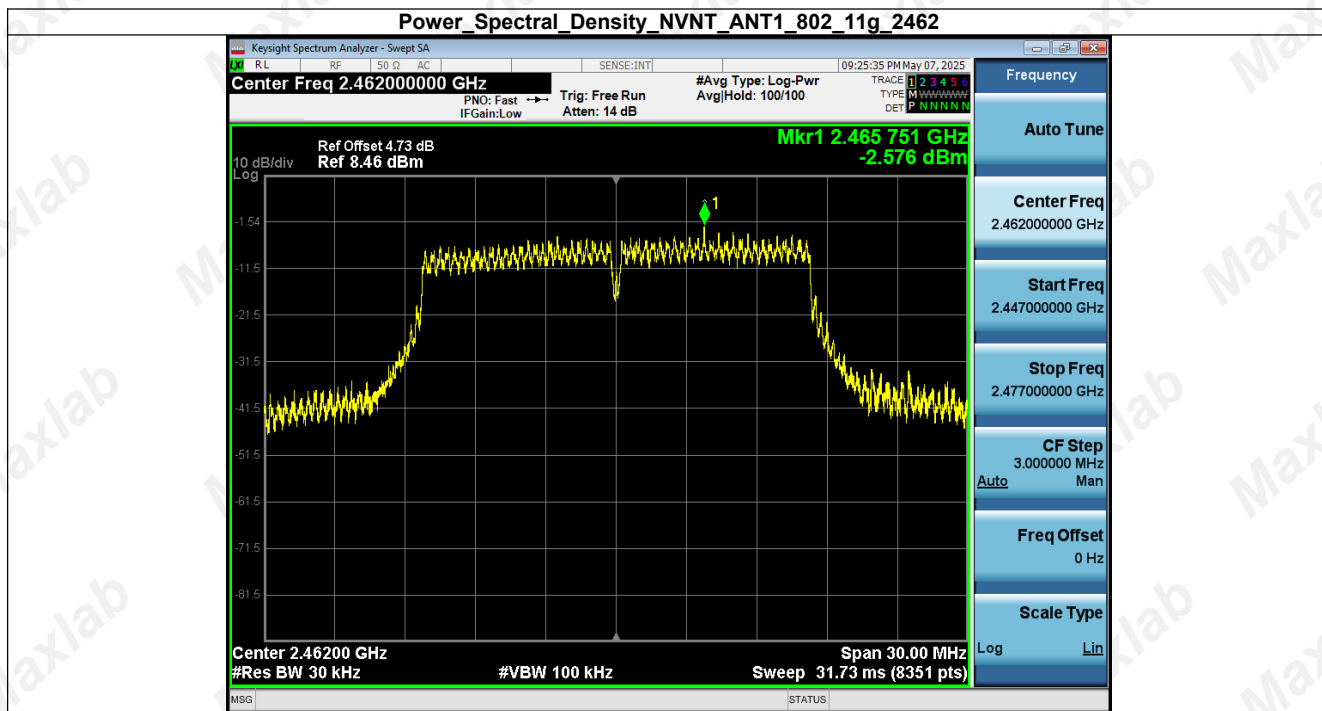
5. Power Spectral Density

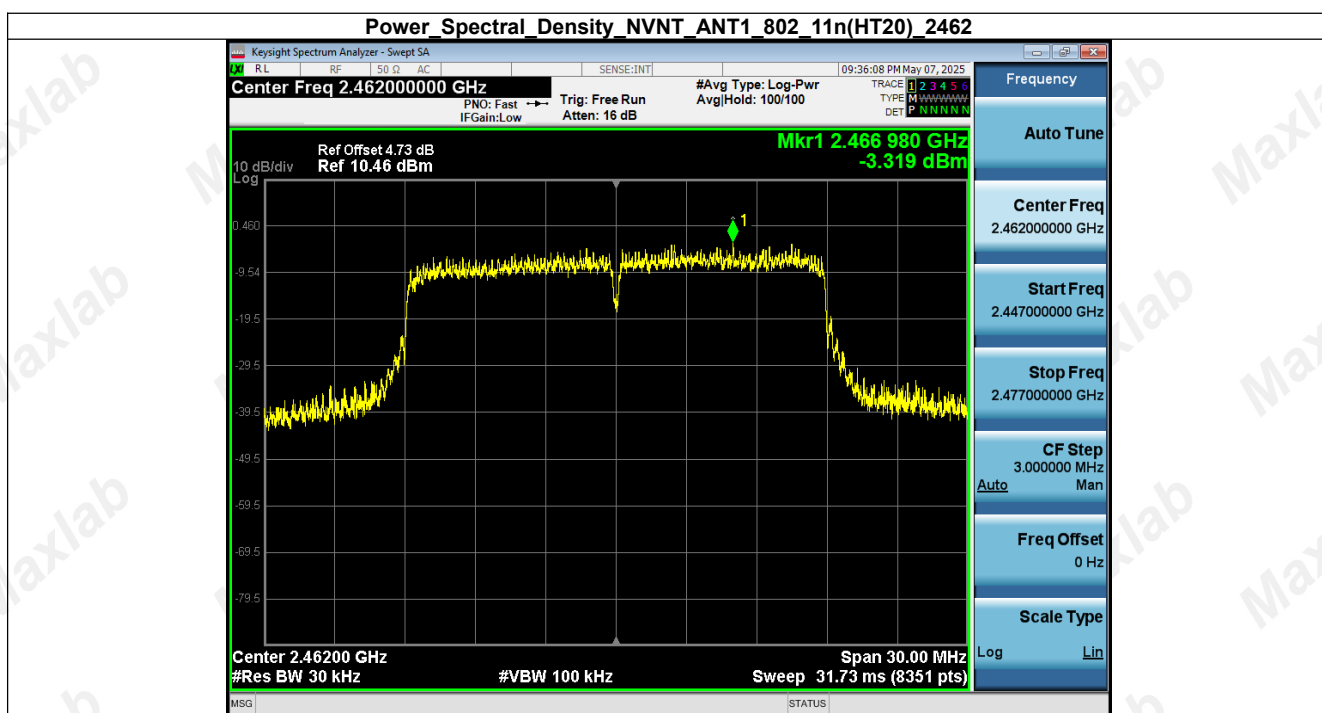
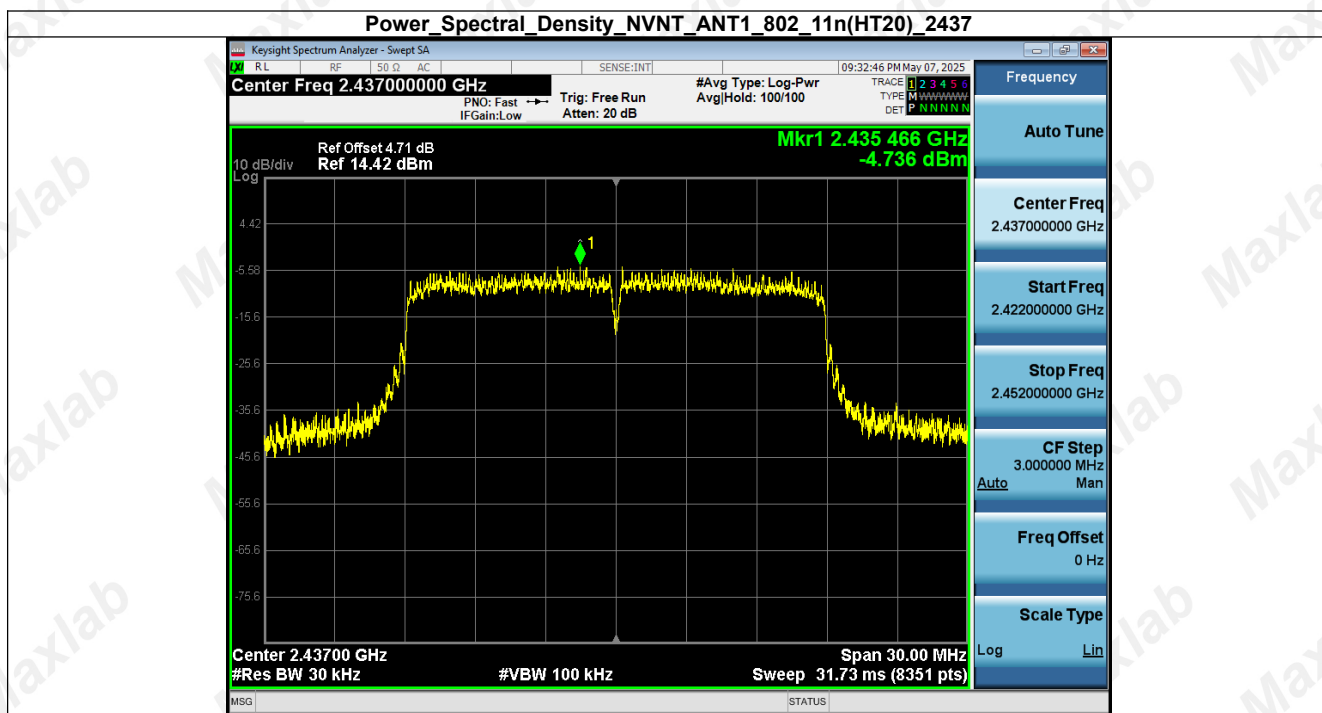
Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	3.39	N/A	-10.00	-6.61	8	Pass
NVNT	ANT1	802.11b	2437.00	3.91	N/A	-10.00	-6.09	8	Pass
NVNT	ANT1	802.11b	2462.00	5.20	N/A	-10.00	-4.80	8	Pass
NVNT	ANT1	802.11g	2412.00	-3.93	N/A	-10.00	-13.93	8	Pass
NVNT	ANT1	802.11g	2437.00	-4.91	N/A	-10.00	-14.91	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.58	N/A	-10.00	-12.58	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.80	N/A	-10.00	-14.80	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-4.74	N/A	-10.00	-14.74	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.32	N/A	-10.00	-13.32	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.80	N/A	-10.00	-17.80	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-7.95	N/A	-10.00	-17.95	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-7.83	N/A	-10.00	-17.83	8	Pass

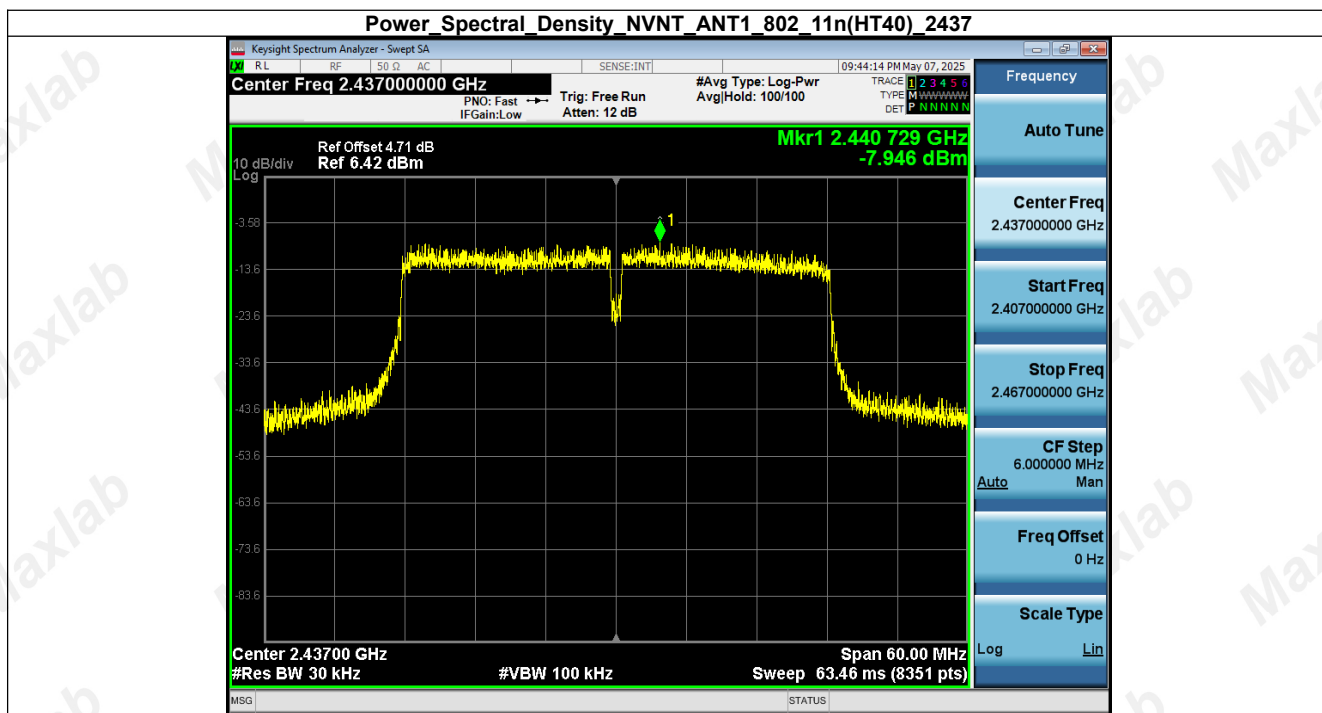
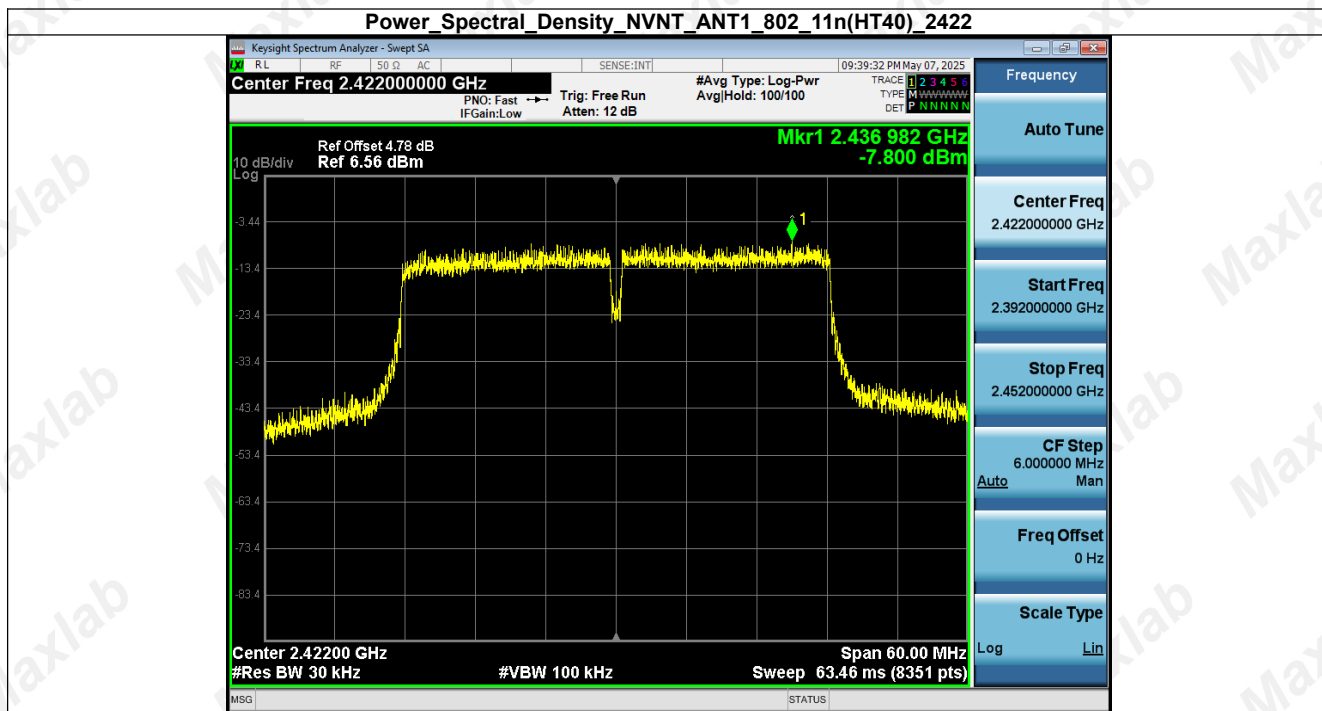


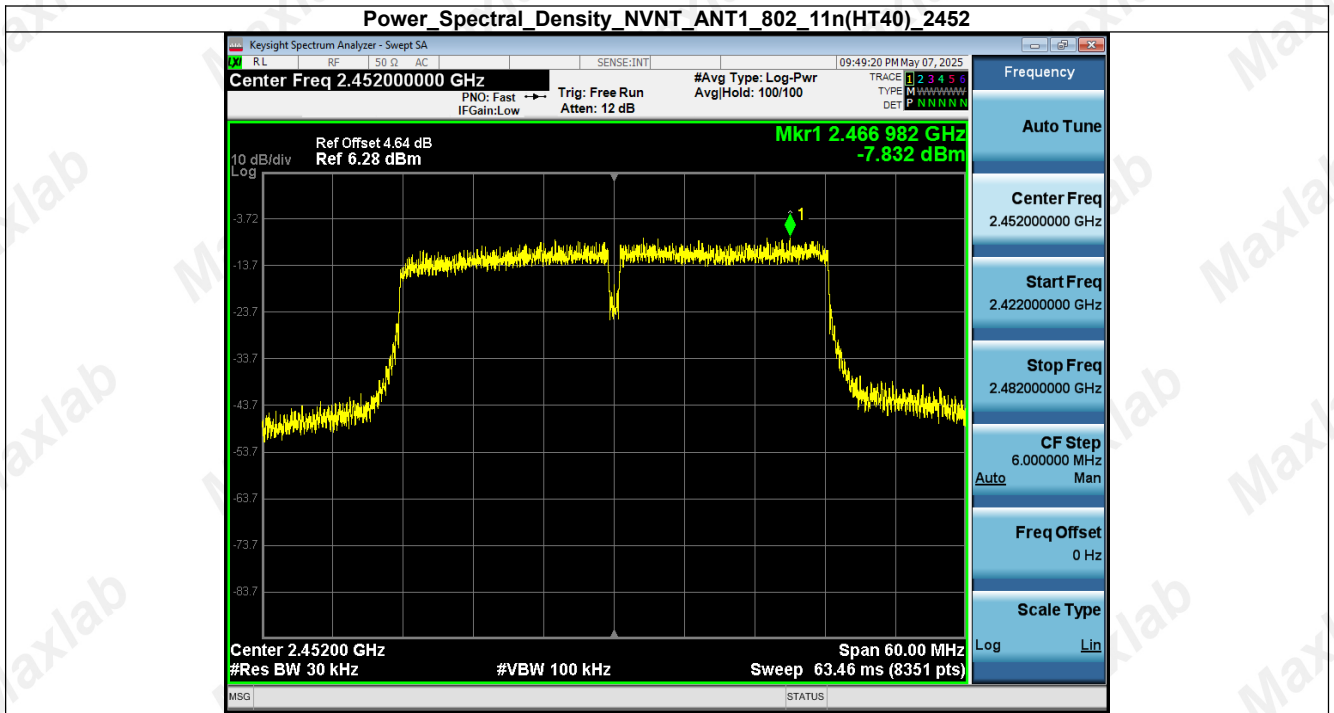






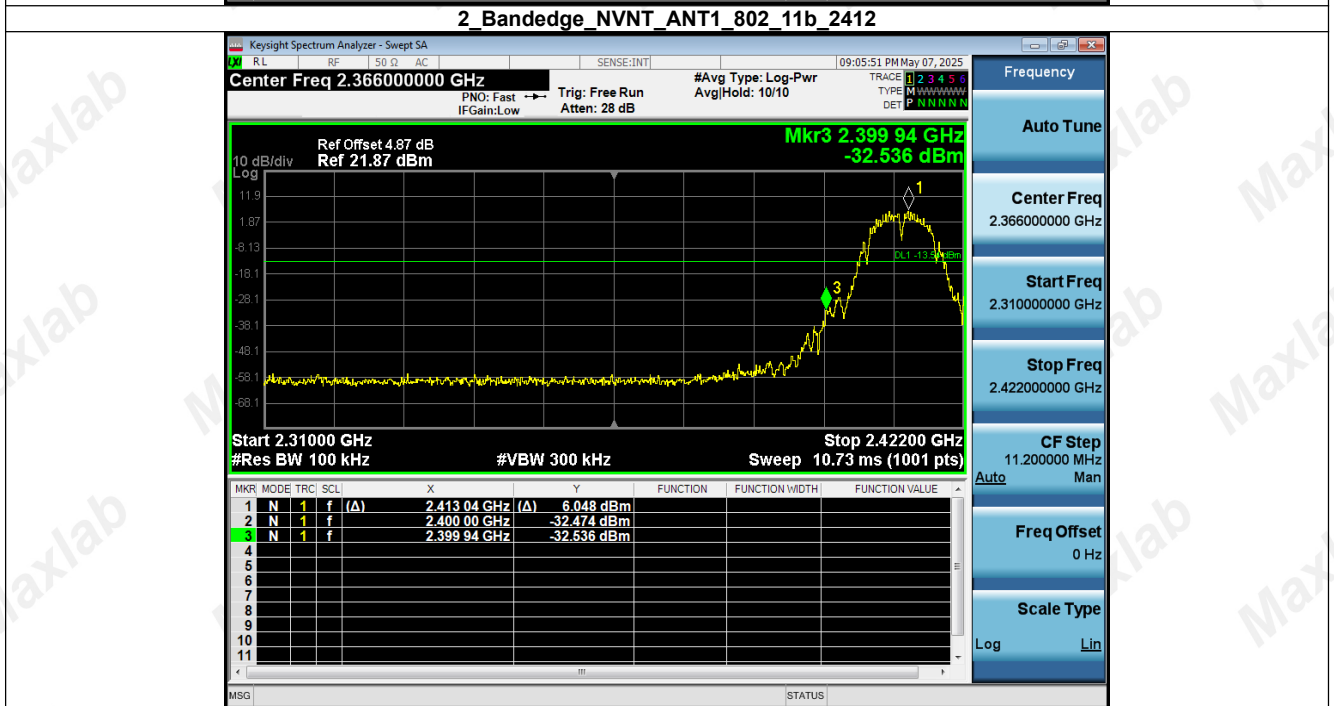






6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	6.456	-32.536	-13.544	Pass
NVNT	ANT1	802.11b	2462.00	2487.520	7.289	-48.904	-12.711	Pass
NVNT	ANT1	802.11g	2412.00	2399.600	-0.277	-34.186	-20.277	Pass
NVNT	ANT1	802.11g	2462.00	2484.160	0.714	-40.002	-19.286	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	-0.432	-31.029	-20.432	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.824	1.177	-38.643	-18.823	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-2.839	-34.583	-22.839	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.544	-2.816	-35.217	-22.816	Pass



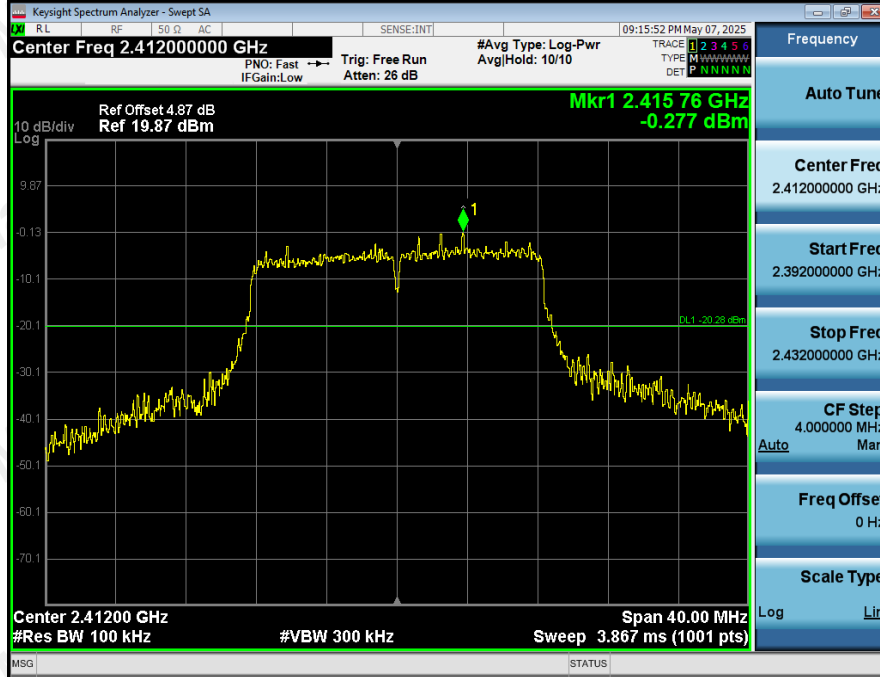
1 Reference Level_NVNT_ANT1_802_11b_2462



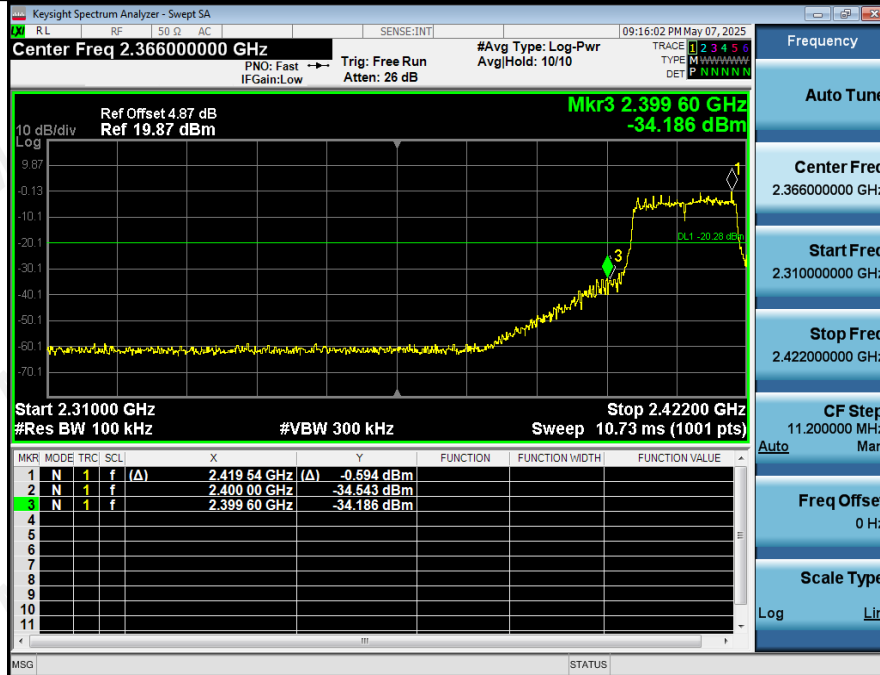
2 Bandedge_NVNT_ANT1_802_11b_2462



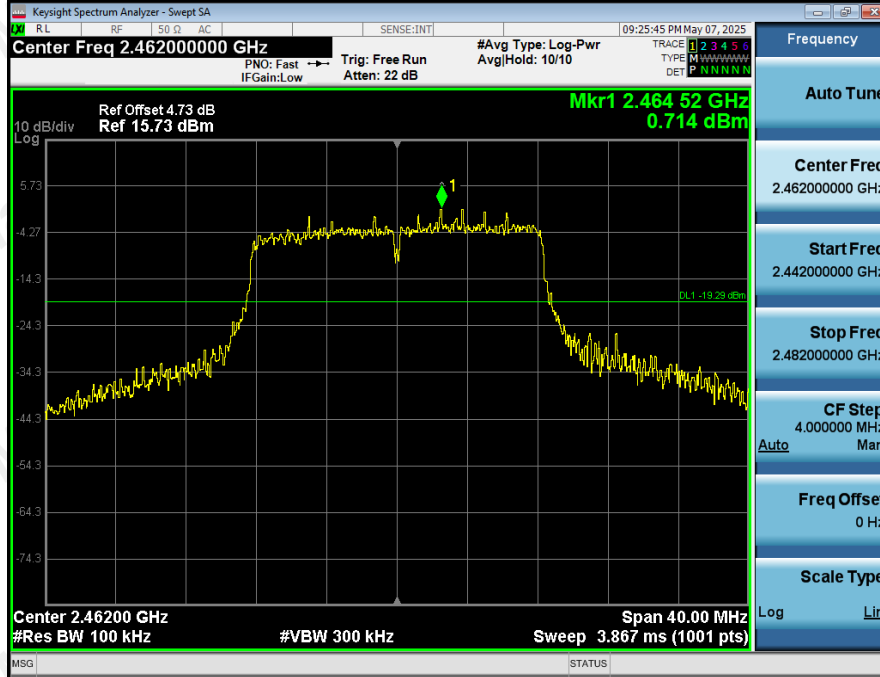
1 Reference Level_NVNT_ANT1_802_11g_2412



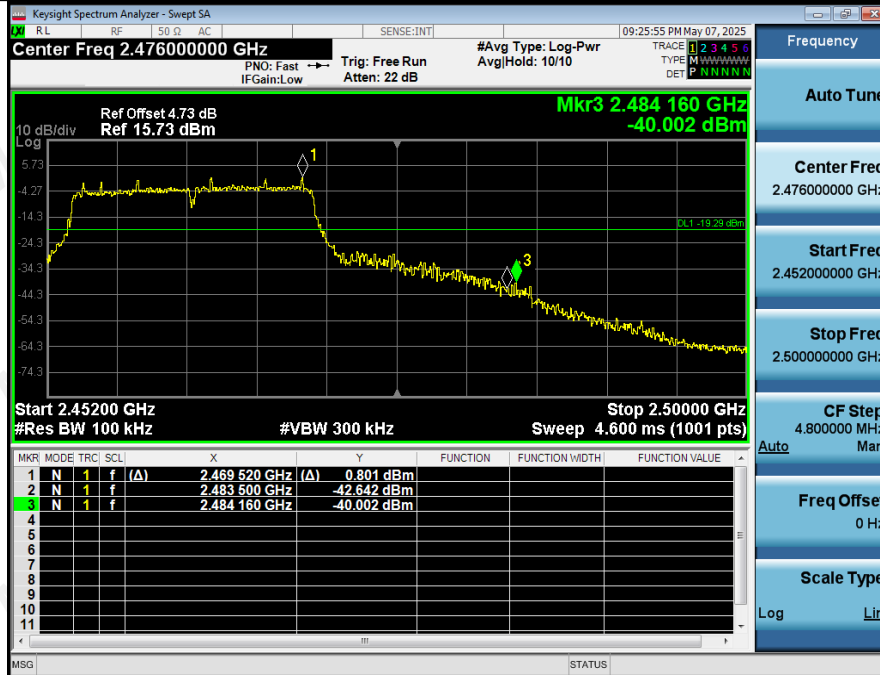
2 Bandedge_NVNT_ANT1_802_11g_2412



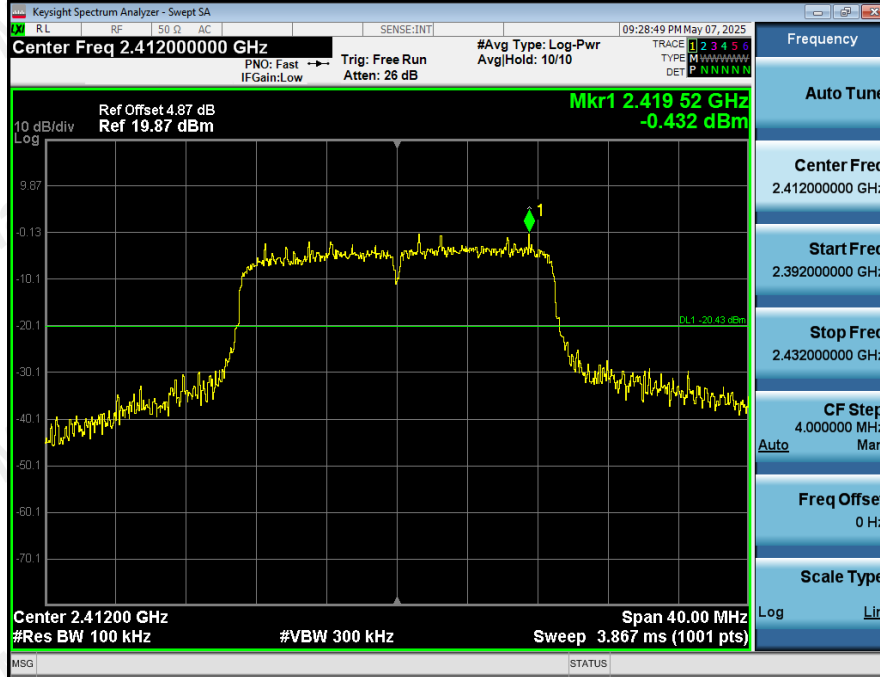
1 Reference Level_NVNT_ANT1_802_11g_2462



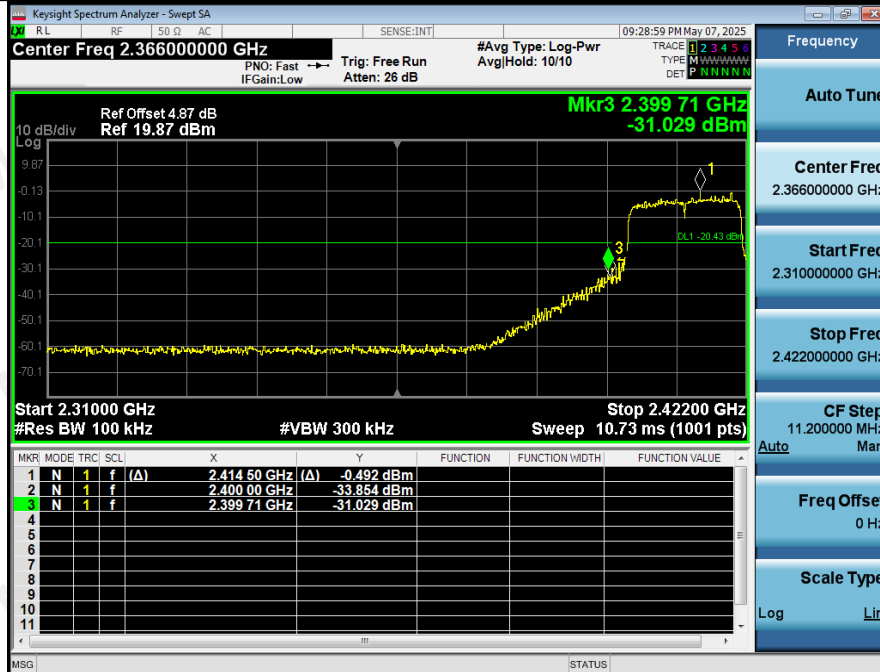
2 Bandedge_NVNT_ANT1_802_11g_2462



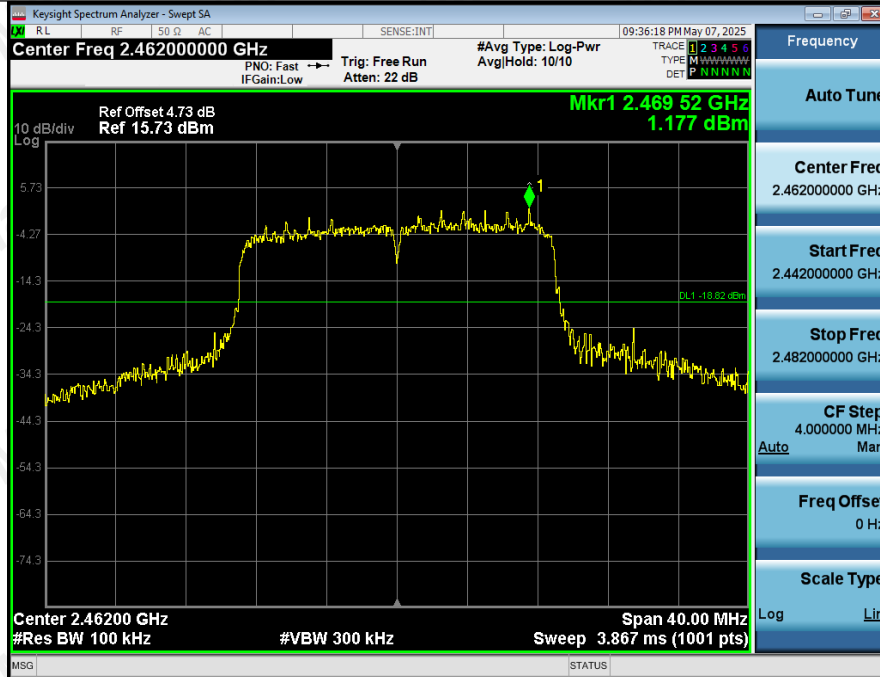
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



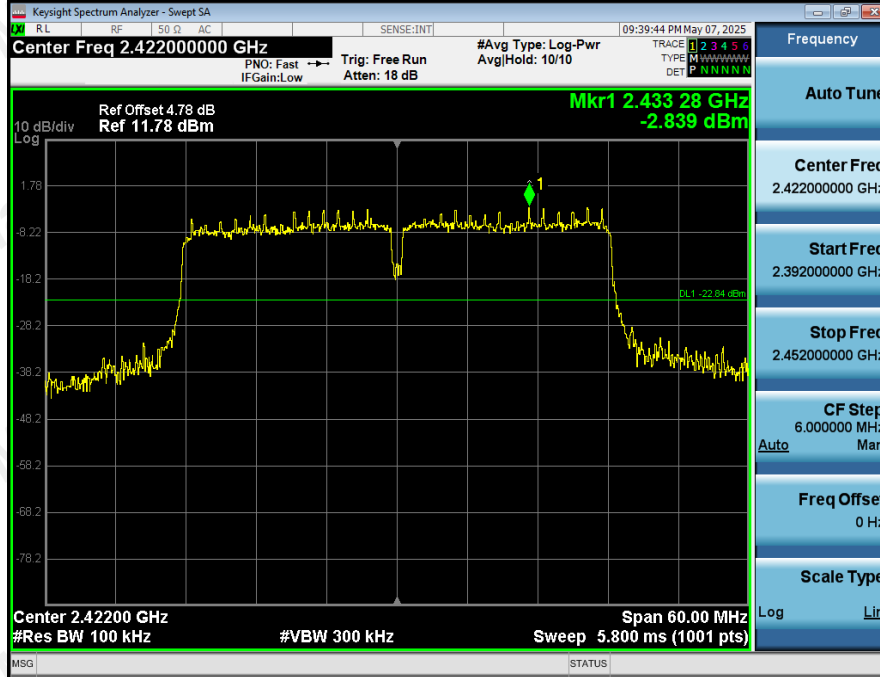
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



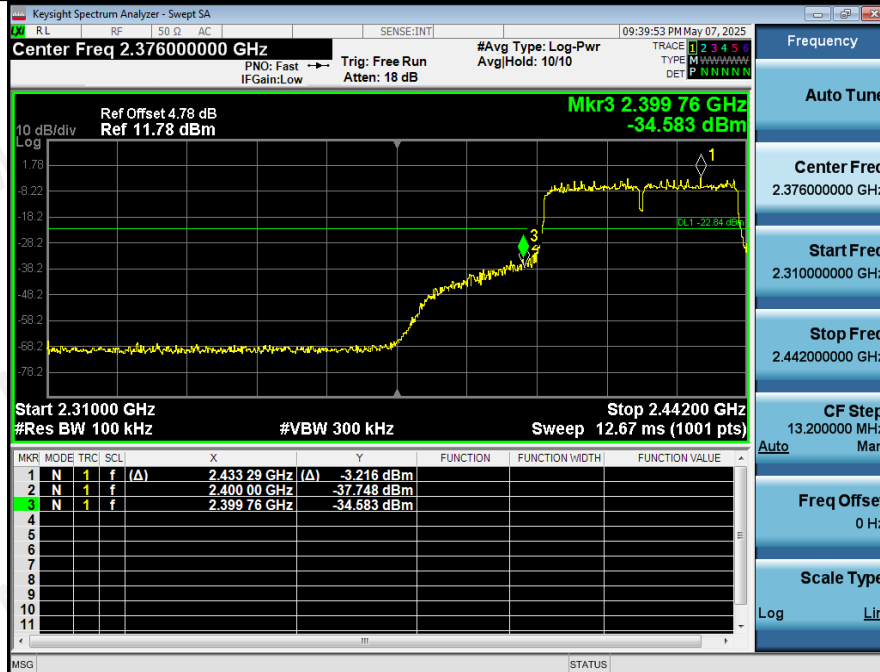
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



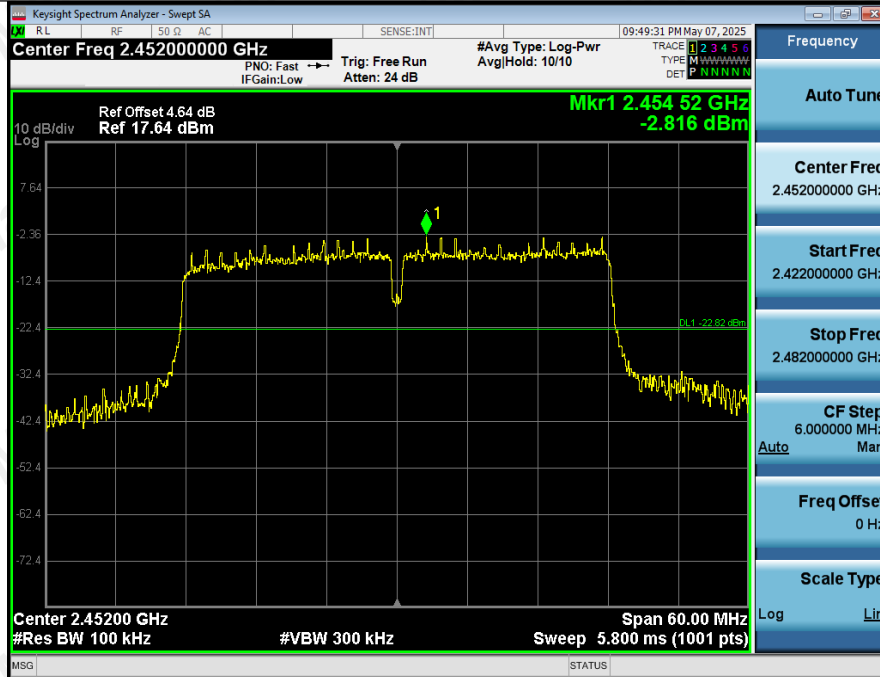
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



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



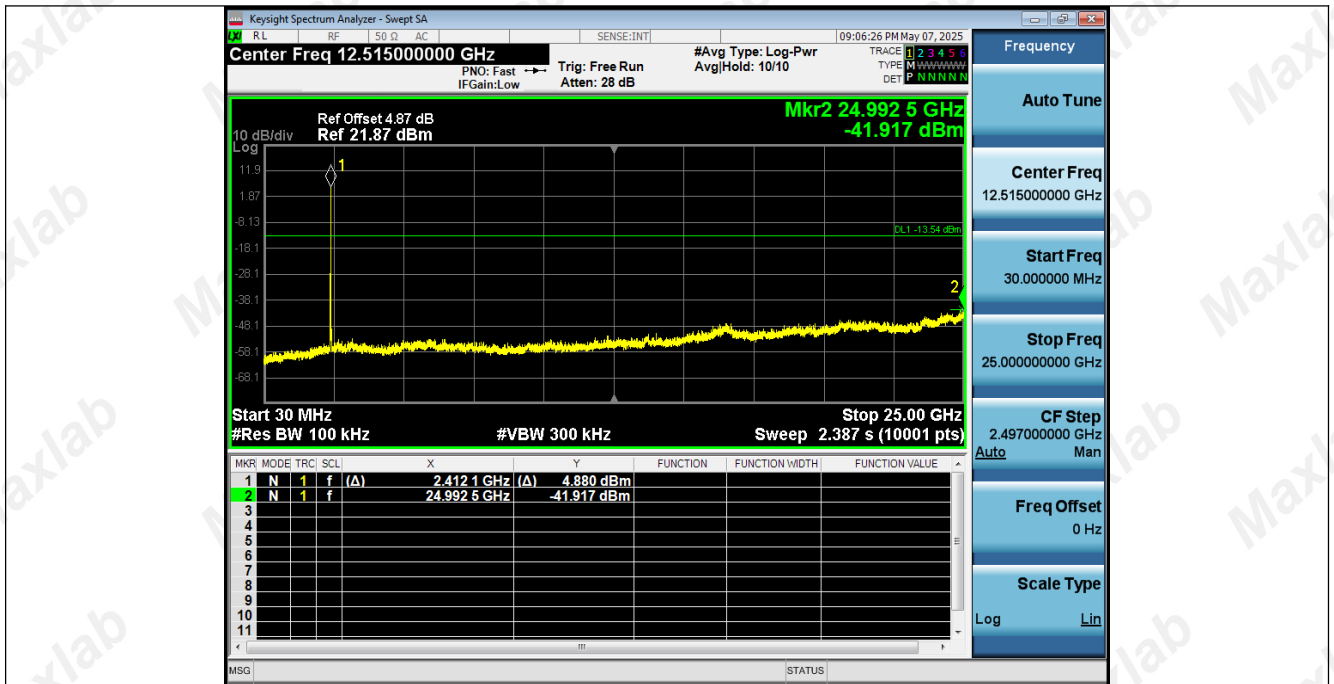
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24992.509	6.456	-41.917	-13.544	Pass
NVNT	ANT1	802.11b	2437.00	24907.611	6.753	-37.217	-13.247	Pass
NVNT	ANT1	802.11b	2462.00	24997.503	7.289	-36.090	-12.711	Pass
NVNT	ANT1	802.11g	2412.00	719.172	-0.277	-33.796	-20.277	Pass
NVNT	ANT1	802.11g	2437.00	24967.539	-0.421	-45.327	-20.421	Pass
NVNT	ANT1	802.11g	2462.00	706.687	0.714	-42.369	-19.286	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	719.172	-0.432	-36.991	-20.432	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24970.036	-0.038	-44.809	-20.038	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	729.160	1.177	-43.299	-18.823	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	704.190	-2.839	-46.365	-22.839	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	719.172	-2.964	-36.327	-22.964	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	721.669	-2.816	-40.203	-22.816	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



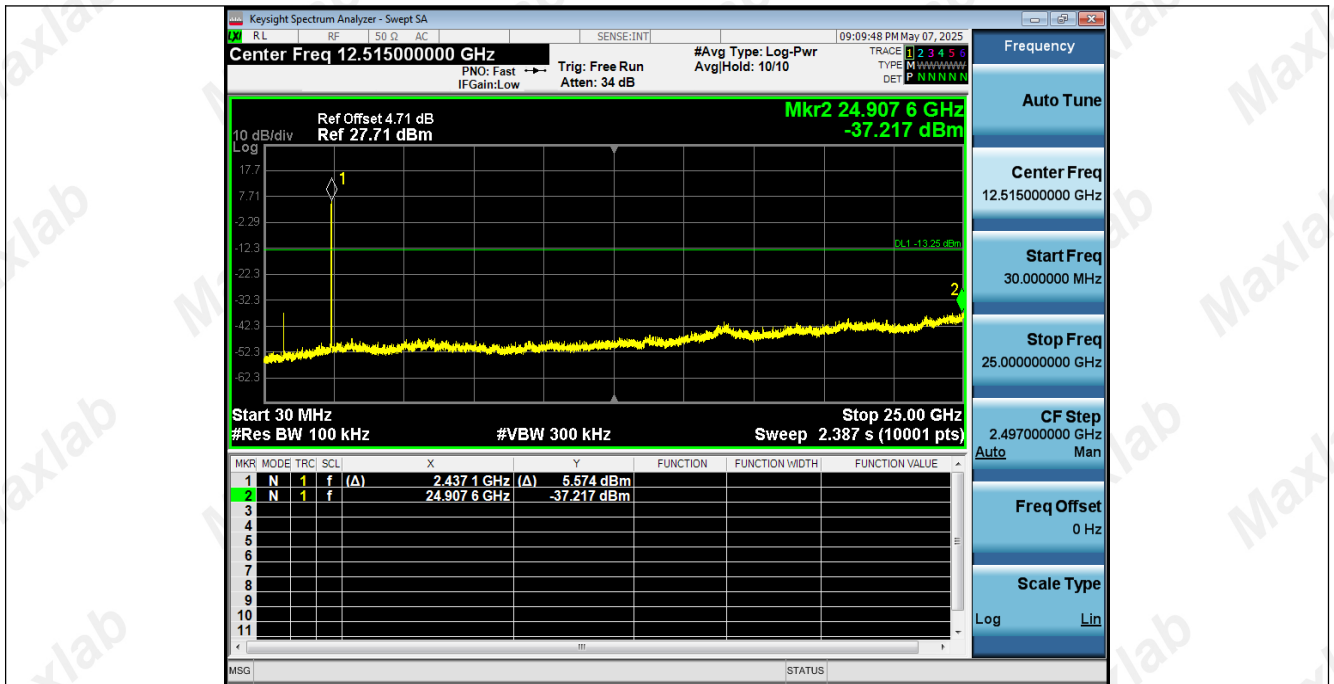
2 Spurious_Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT_ANT1_802_11b_2437



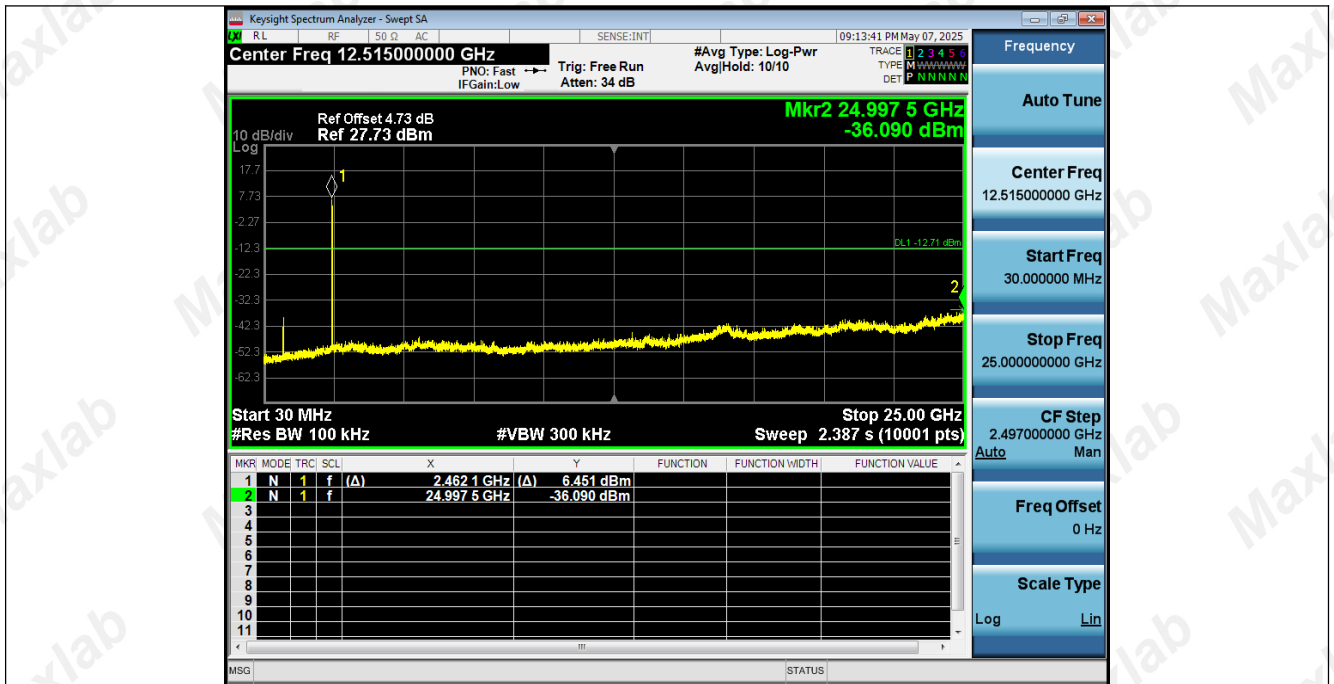
2 Spurious Emission NVNT_ANT1_802_11b_2437



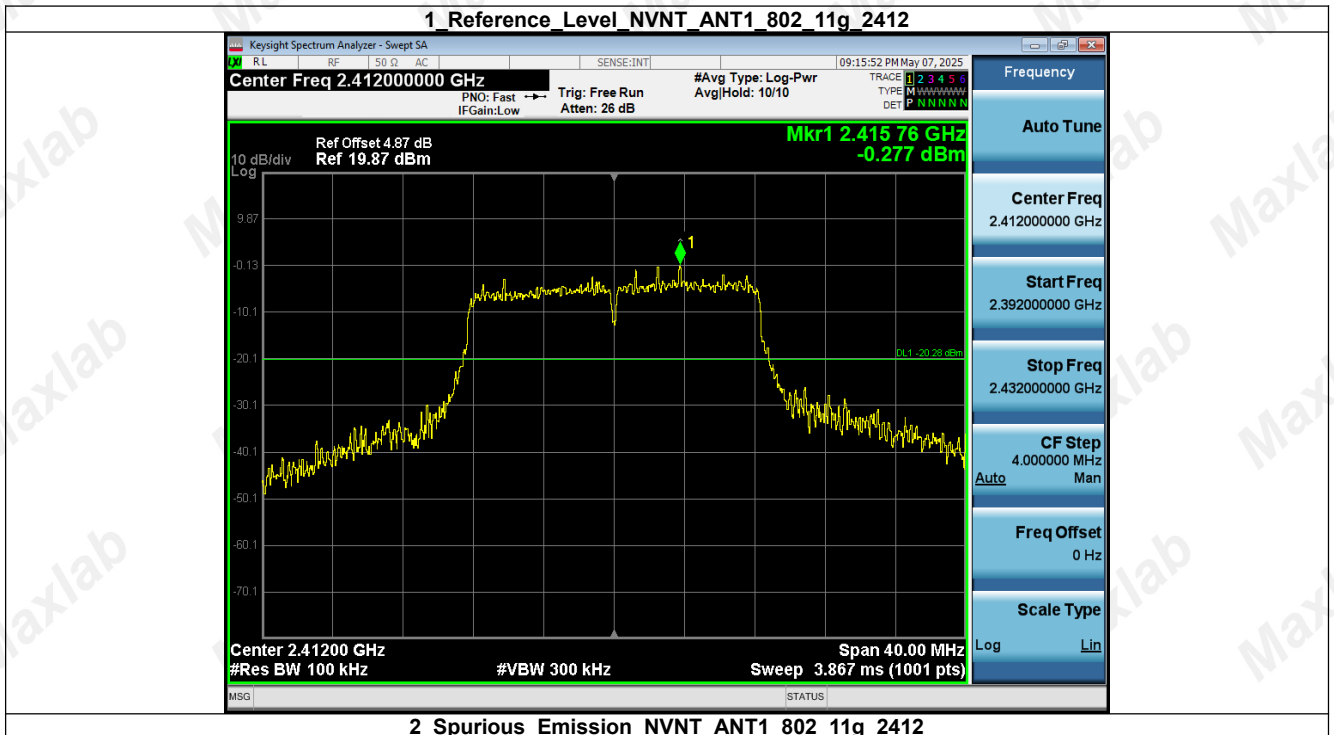
1 Reference Level NVNT_ANT1_802_11b_2462



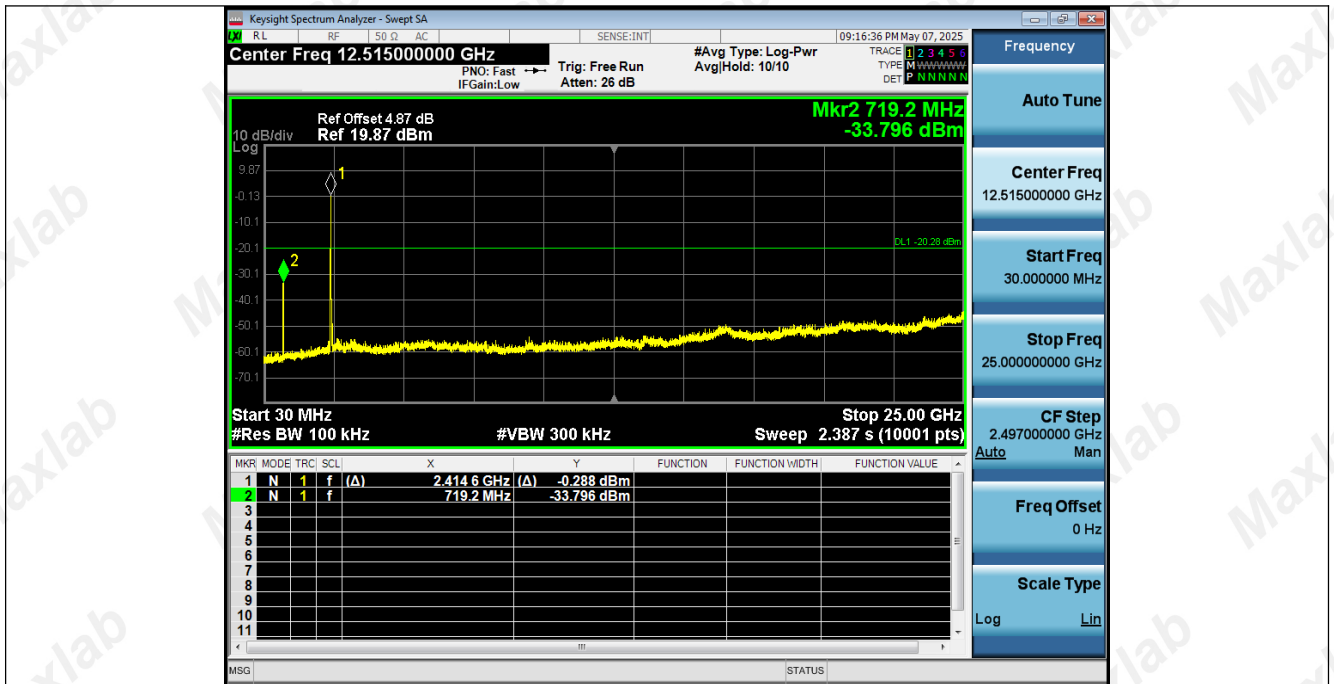
2_Spurious_Emission_NVNT_ANT1_802_11b_2462



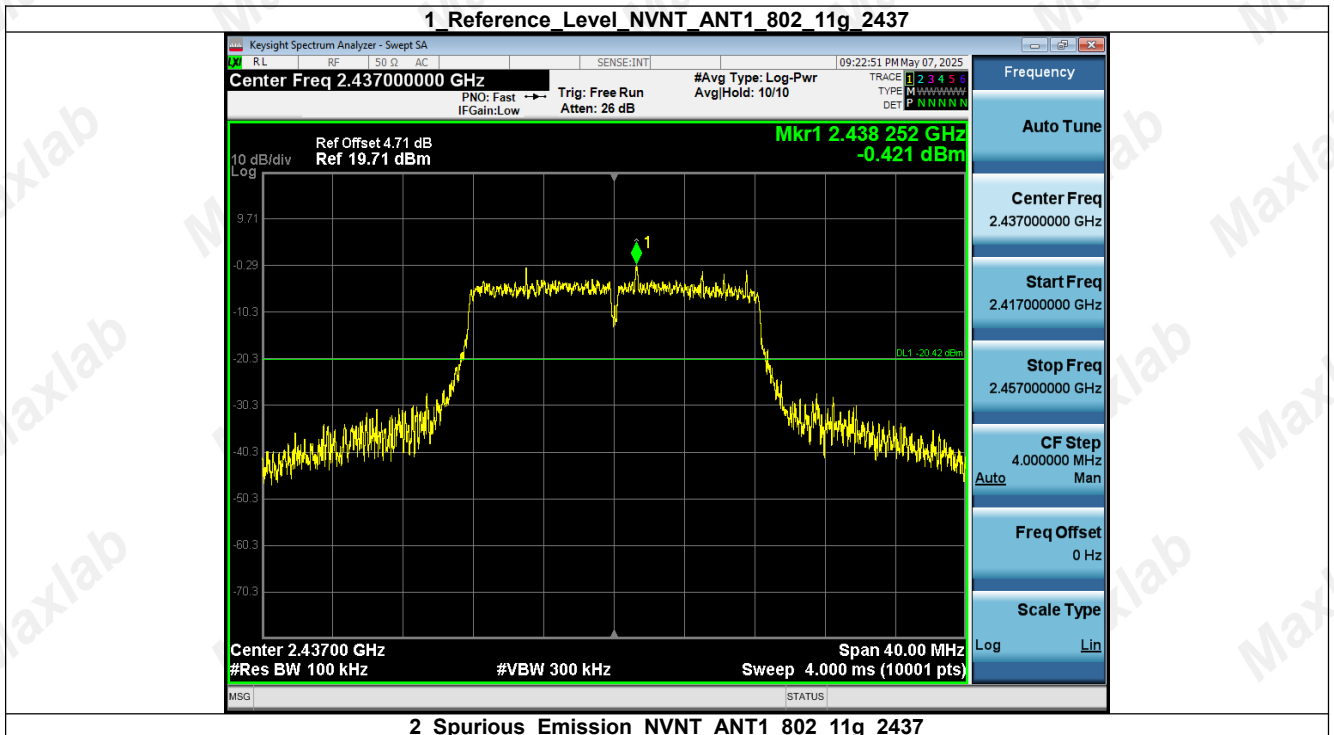
1 Reference Level NVNT_ANT1_802_11g_2412



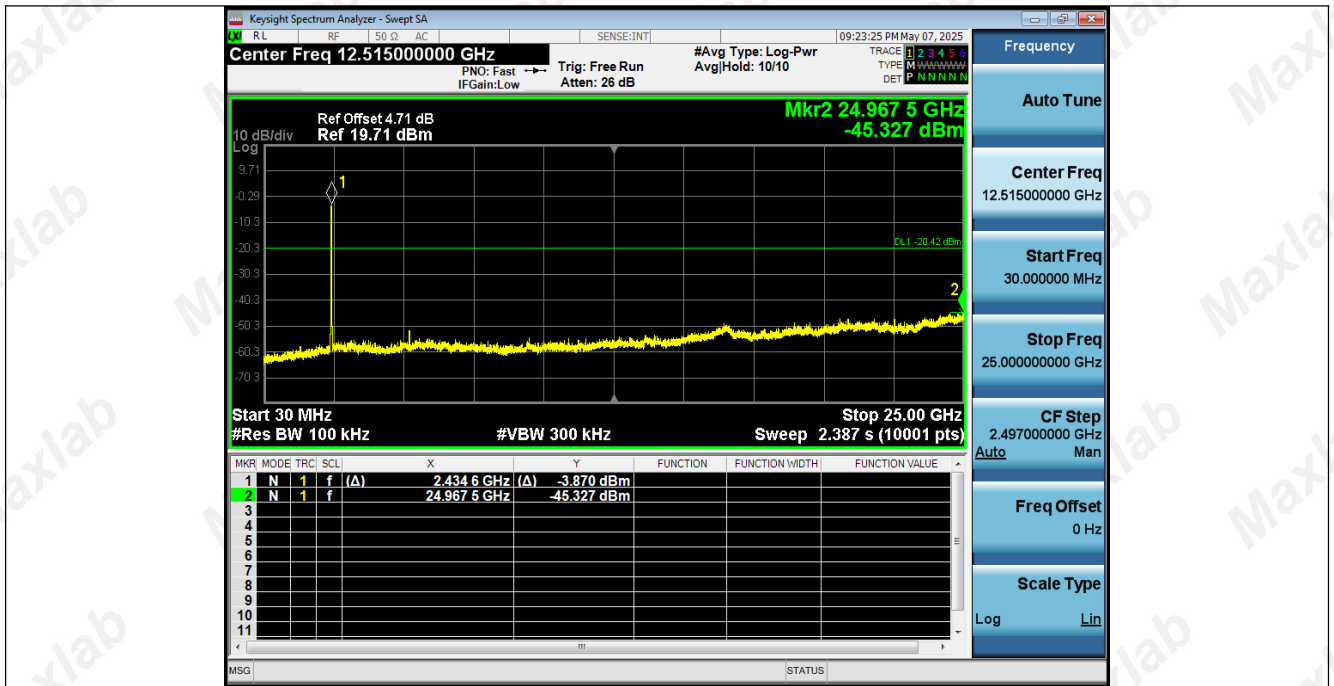
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



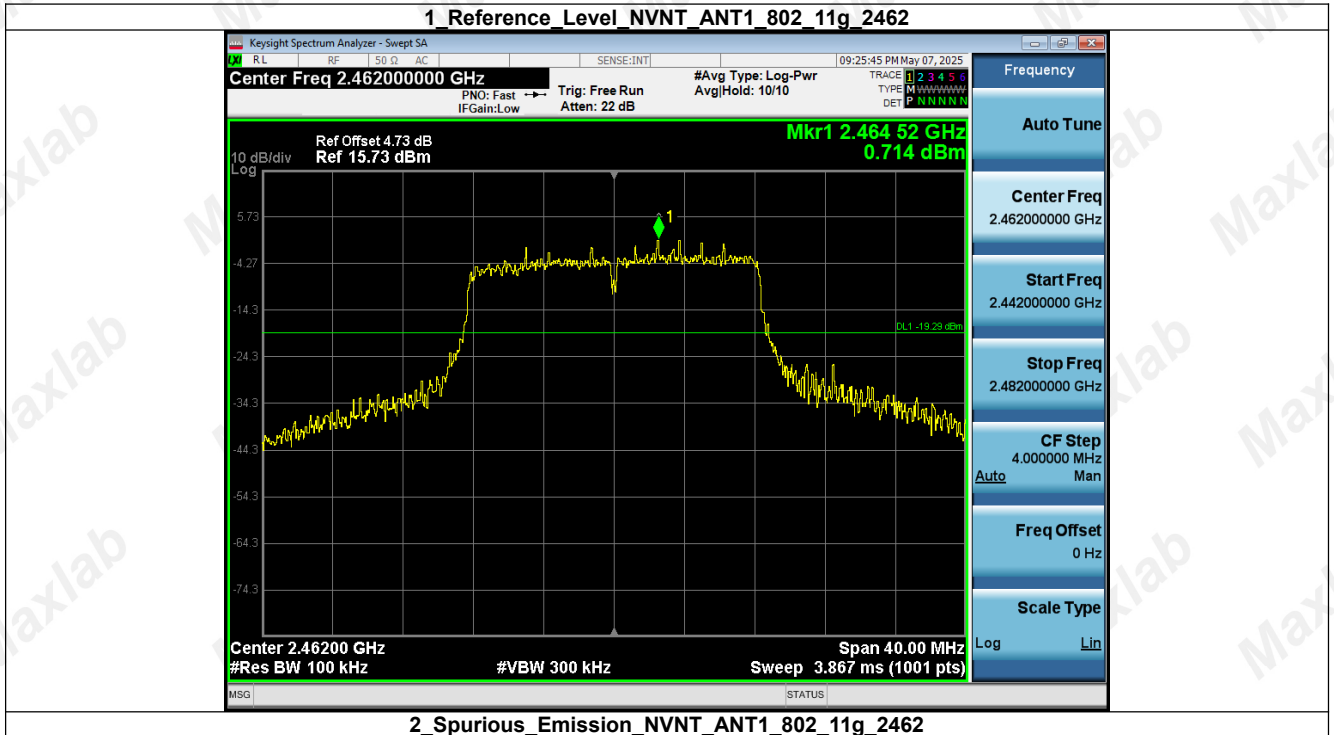
1 Reference Level NVNT_ANT1_802_11g_2437



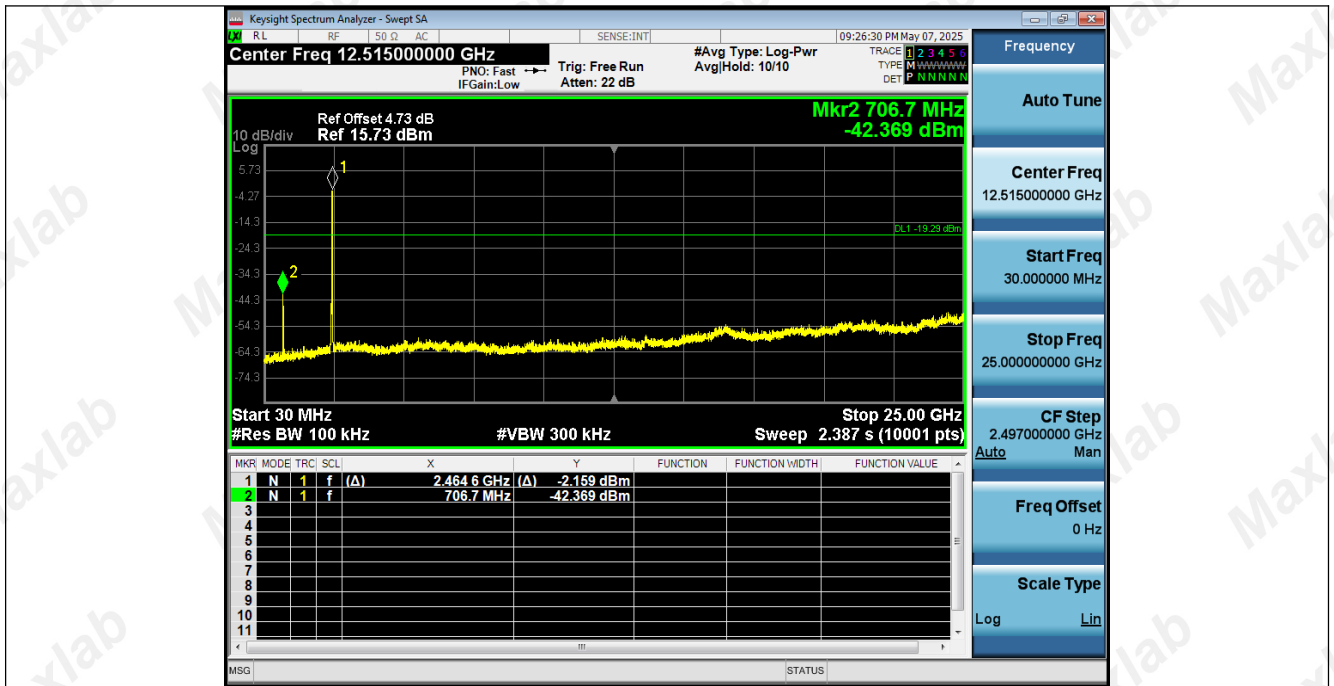
2 Spurious_Emission_NVNT_ANT1_802_11g_2437



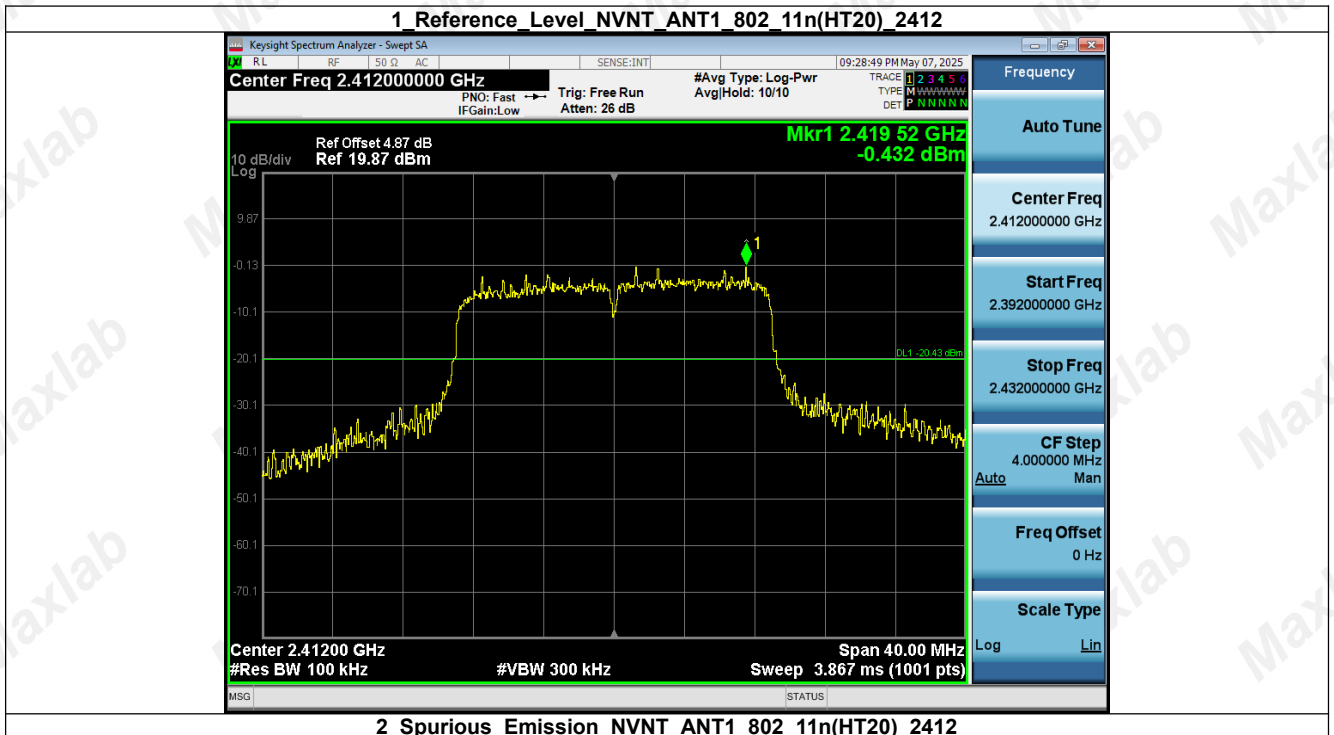
1 Reference Level NVNT_ANT1_802_11g_2462



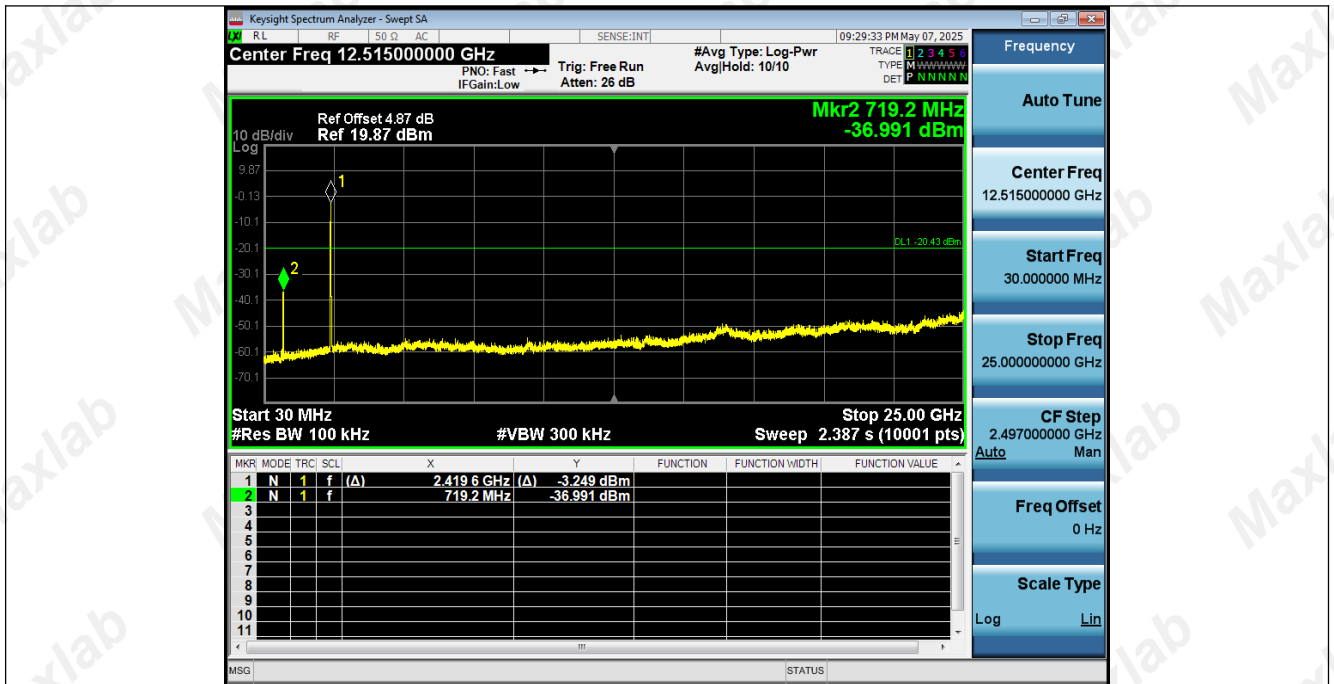
2_Spurious_Emission_NVNT_ANT1_802_11g_2462



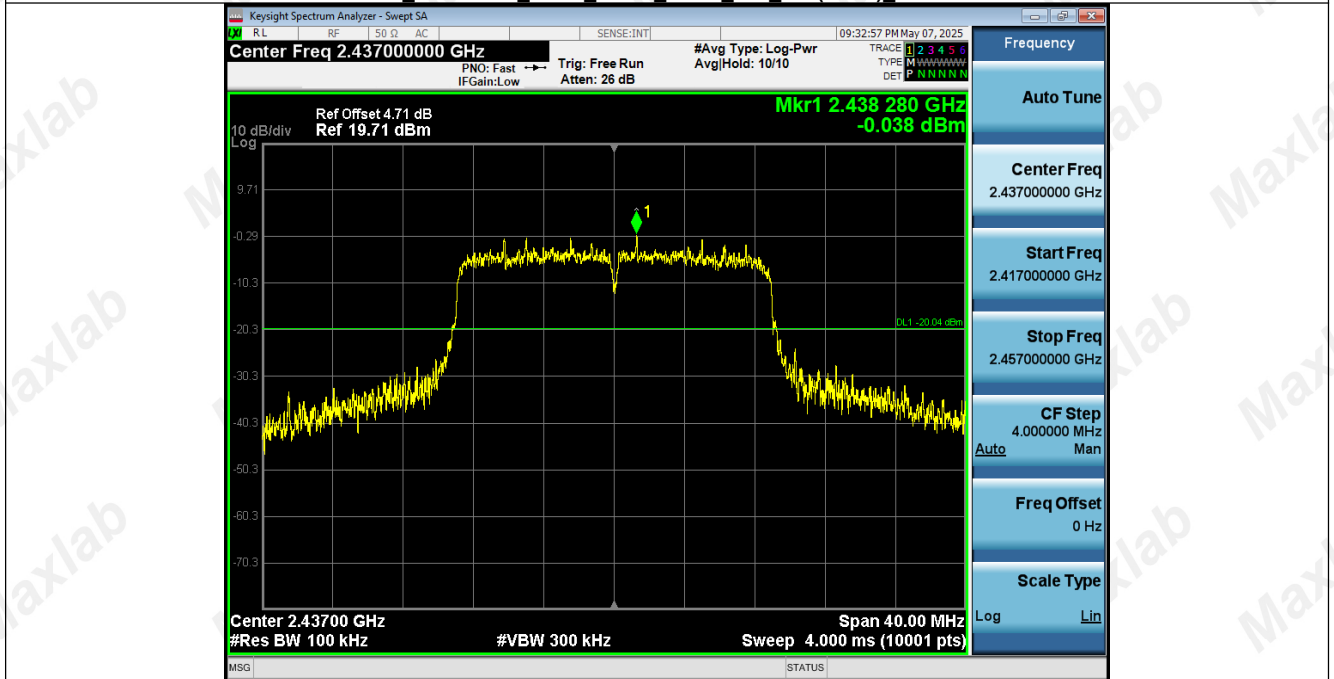
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



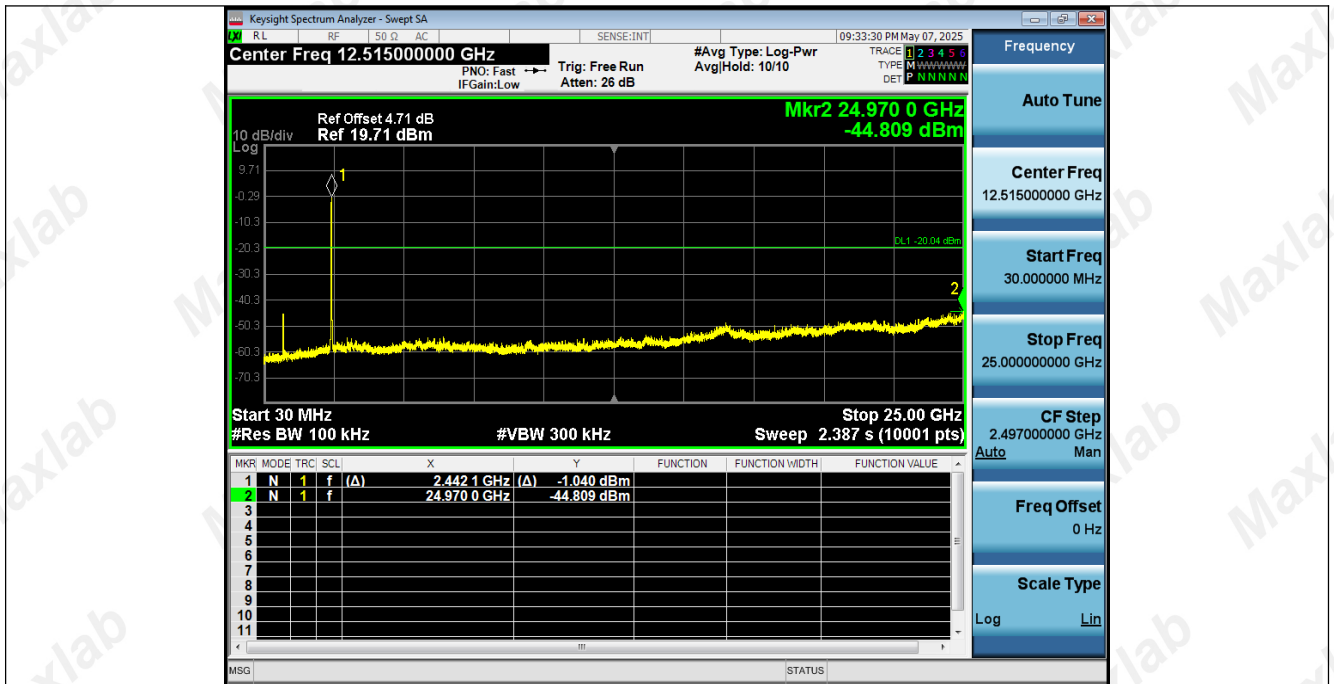
2 Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



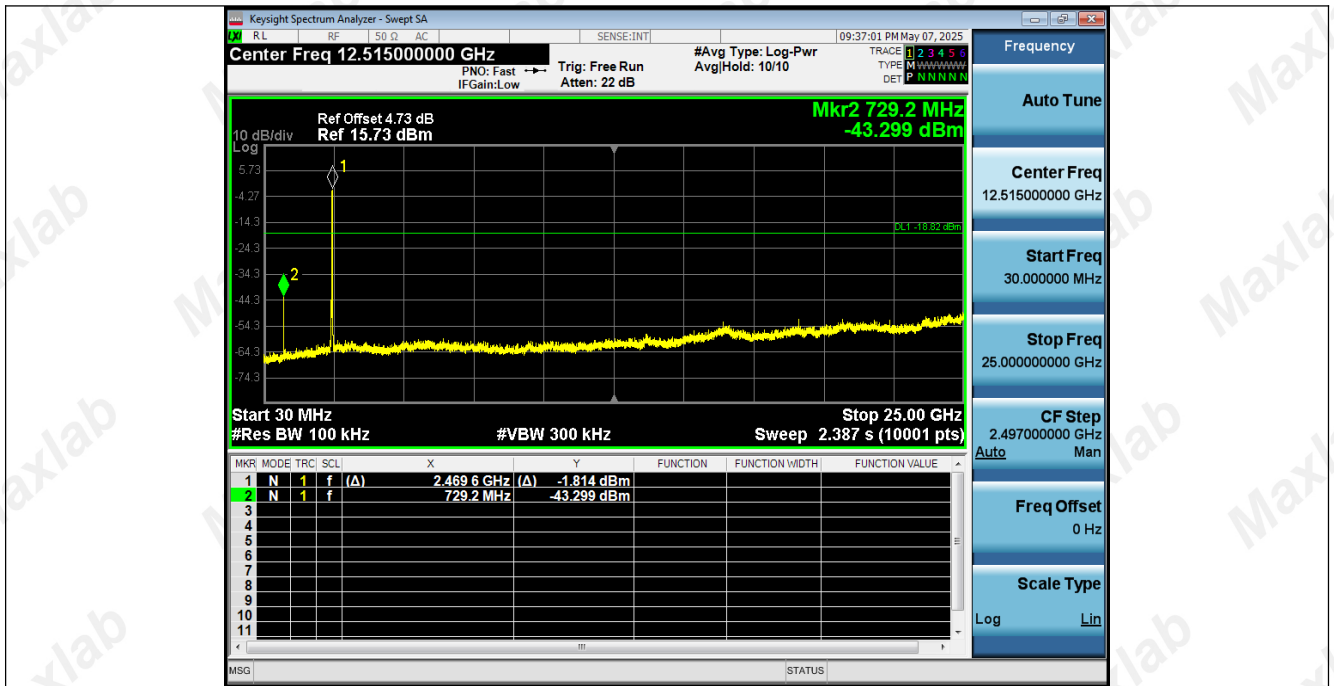
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



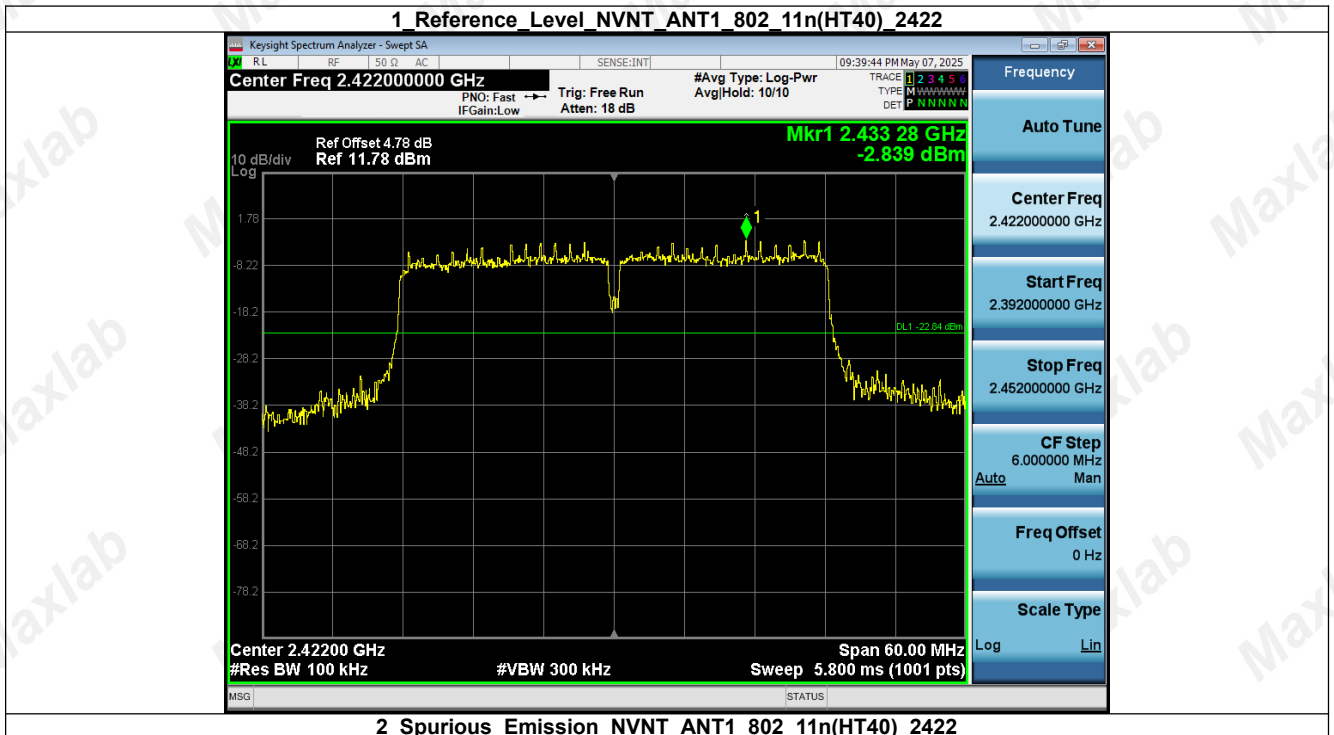
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



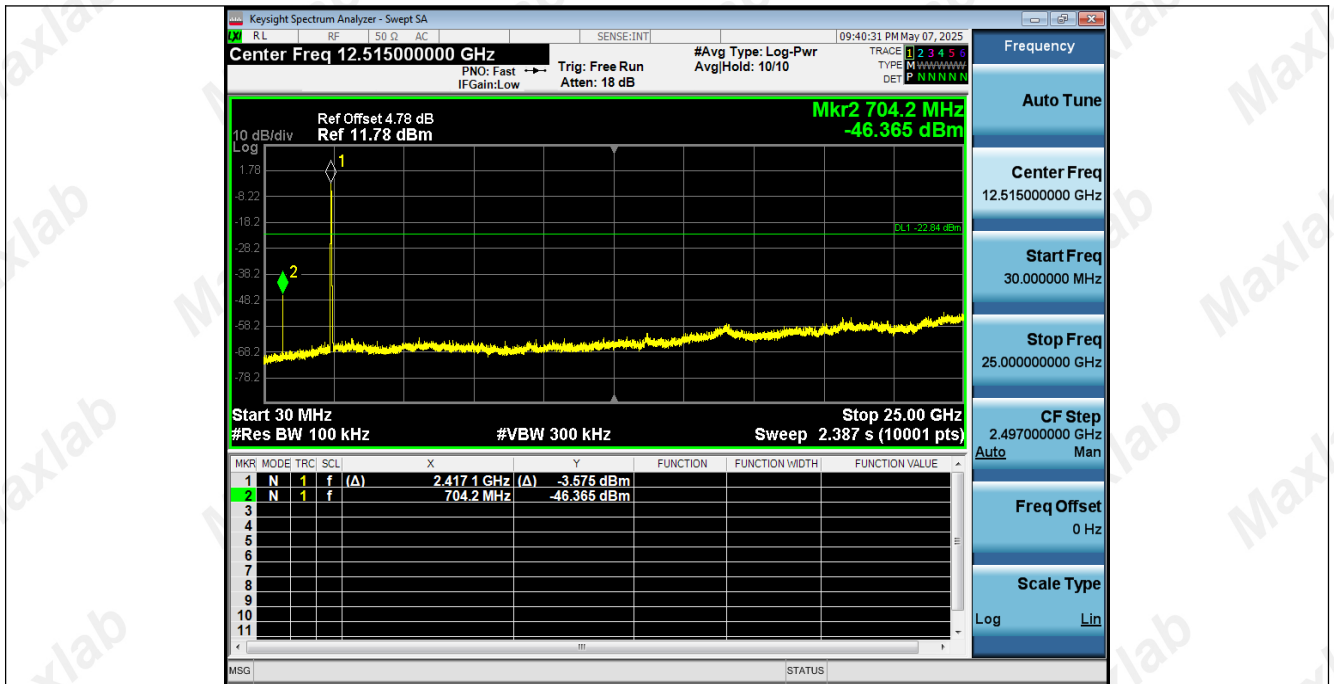
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



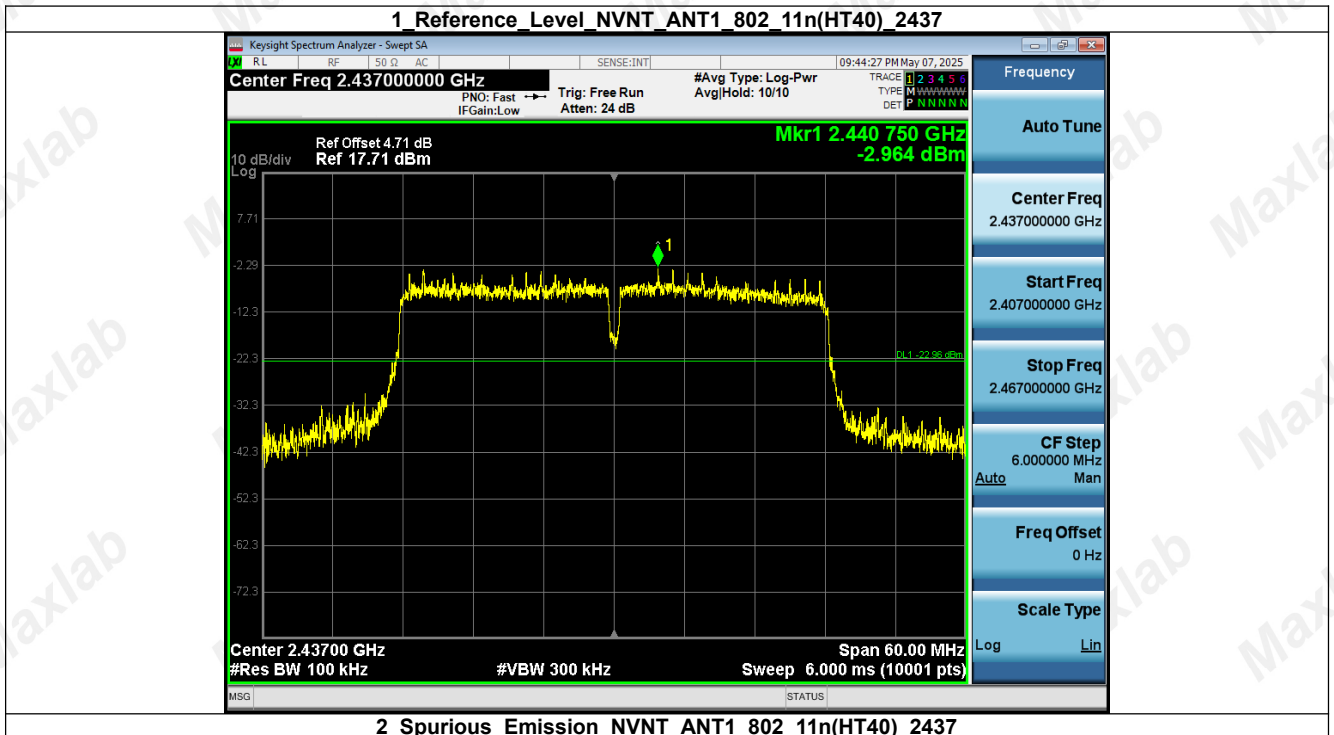
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



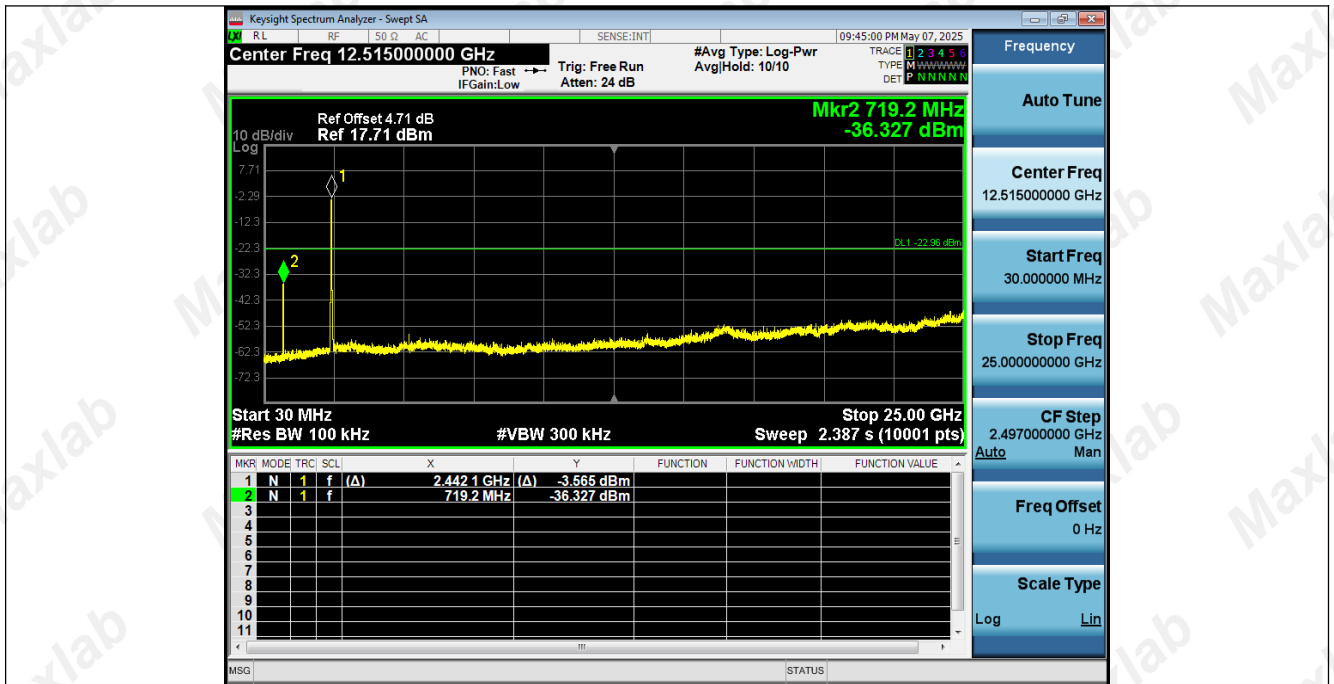
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



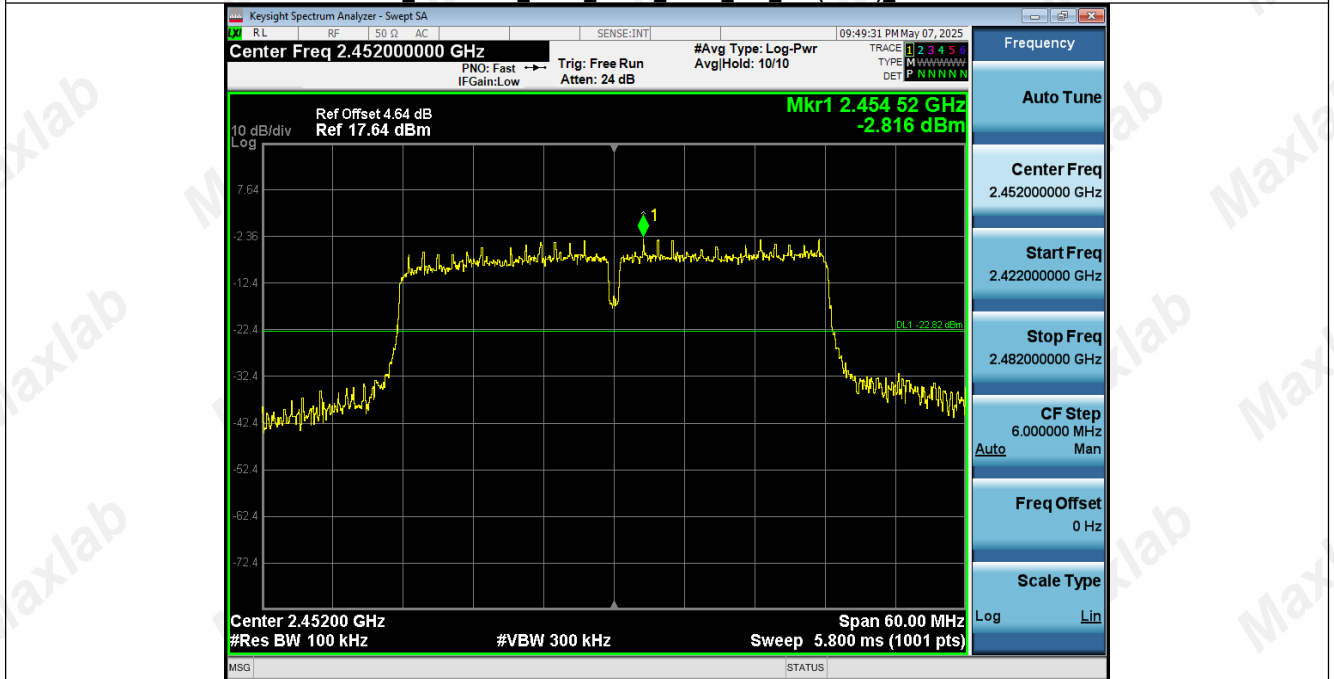
1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



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

