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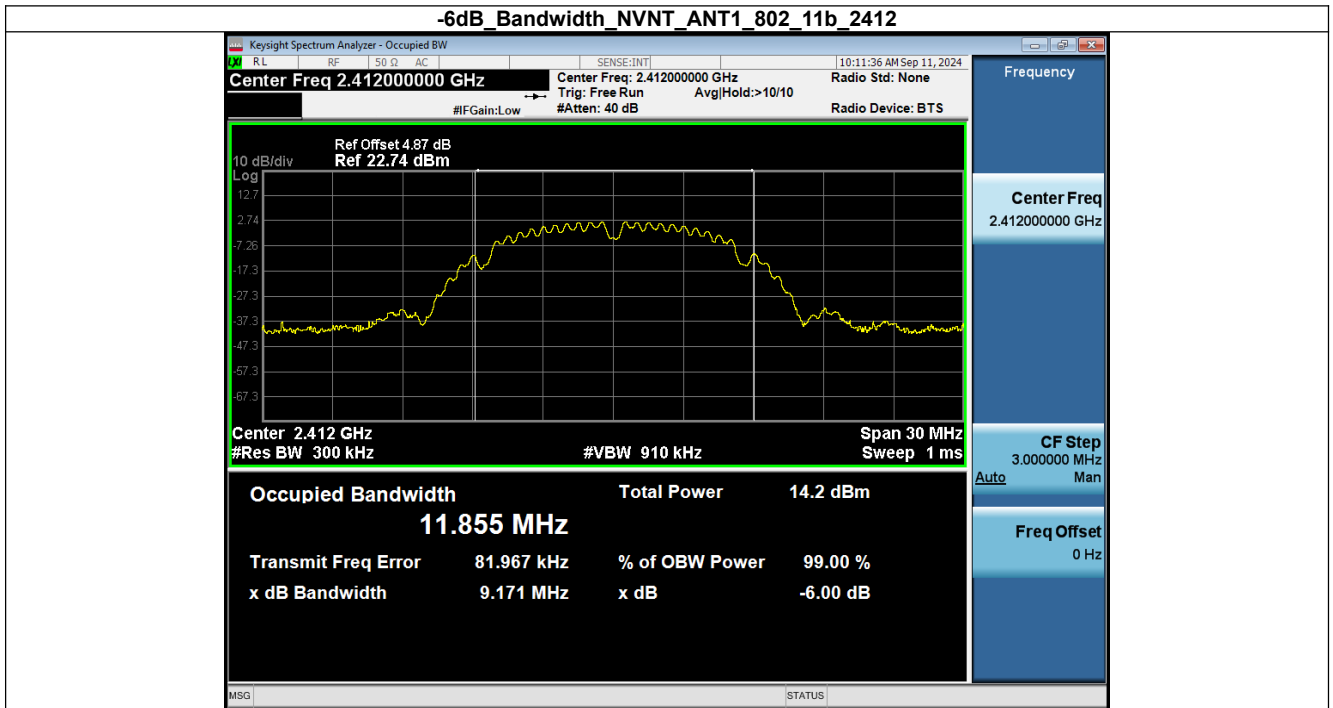
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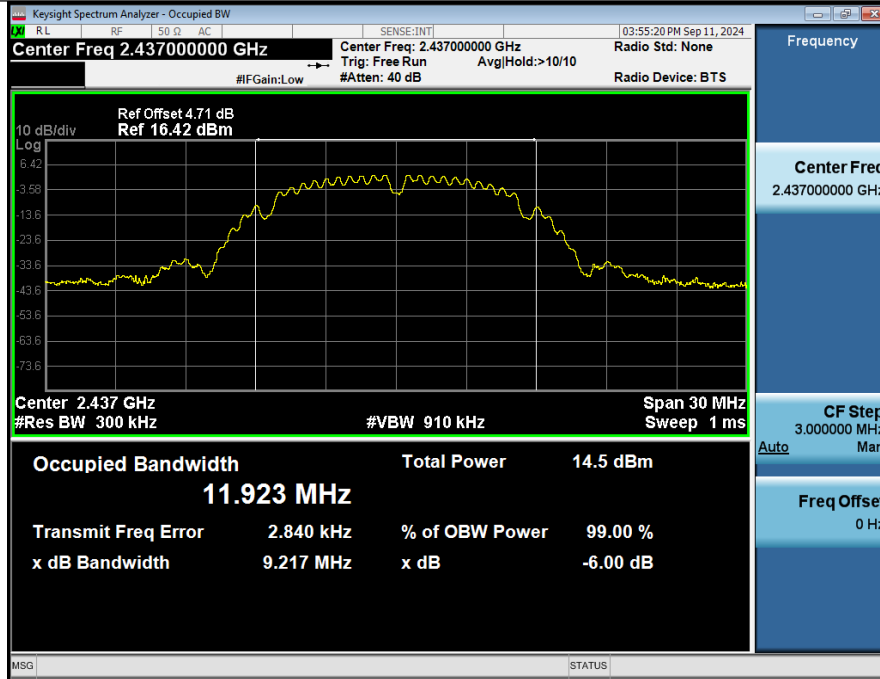
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

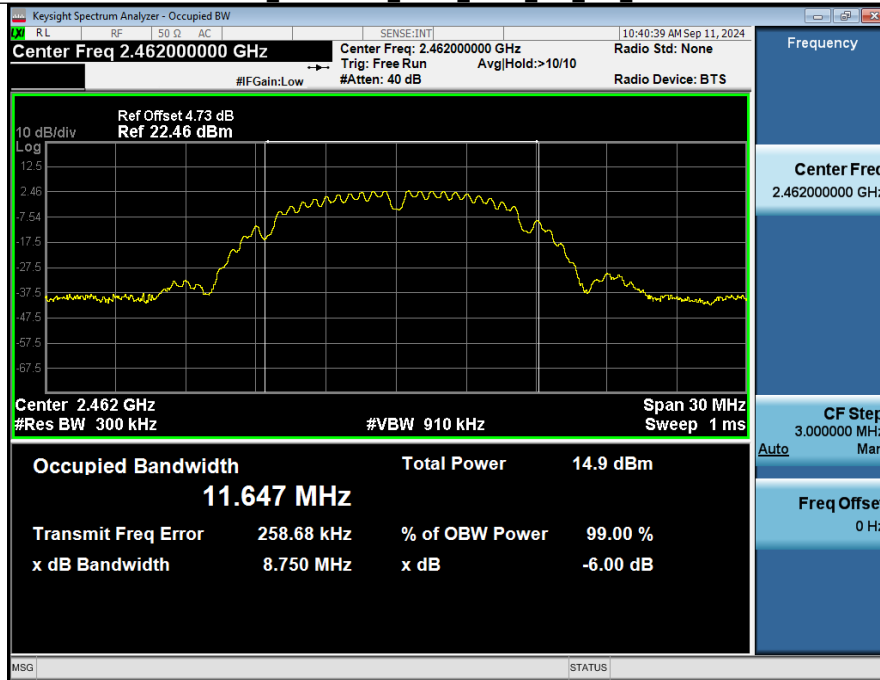
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.17	500	Pass
NVNT	ANT1	802.11b	2437.00	9.22	500	Pass
NVNT	ANT1	802.11b	2462.00	8.75	500	Pass
NVNT	ANT1	802.11g	2412.00	16.42	500	Pass
NVNT	ANT1	802.11g	2437.00	16.46	500	Pass
NVNT	ANT1	802.11g	2462.00	16.41	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.38	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.18	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.10	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.03	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.22	500	Pass



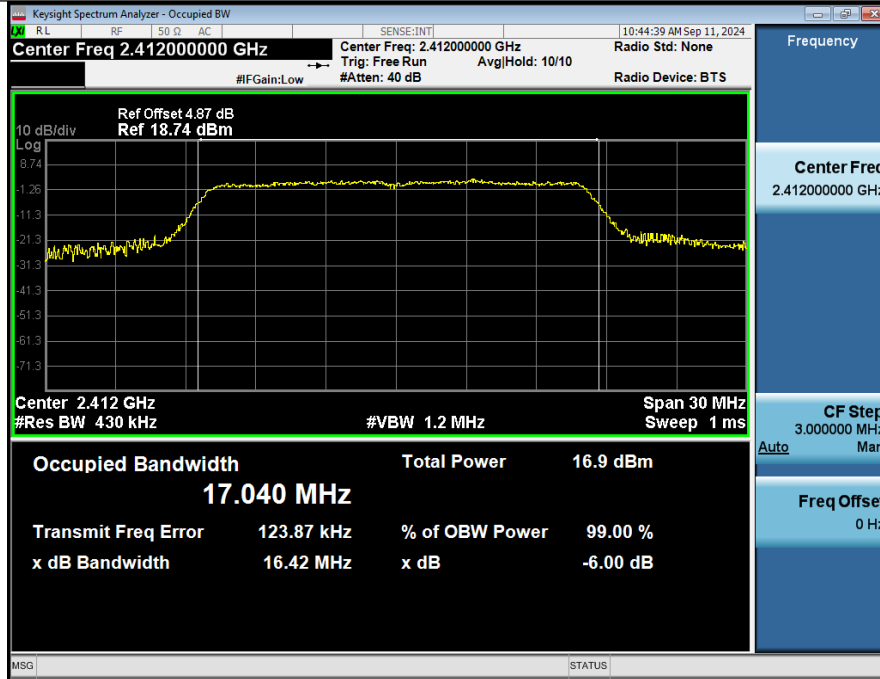
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



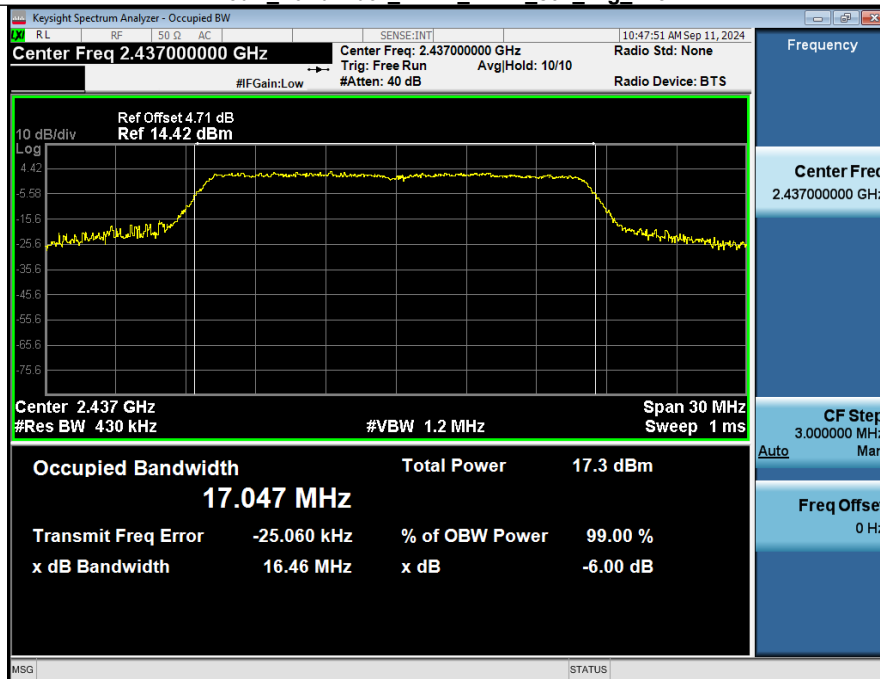
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



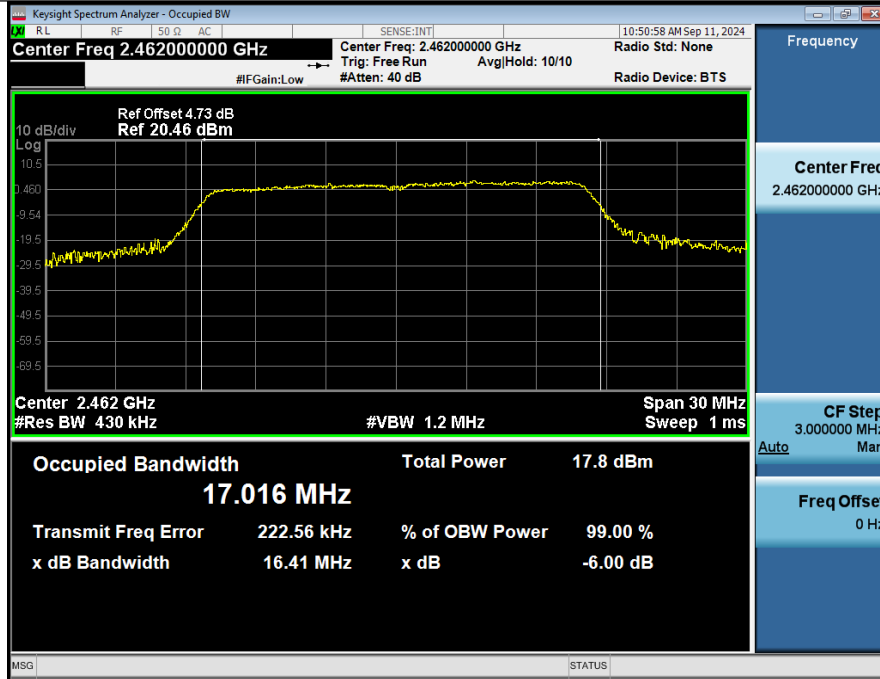
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



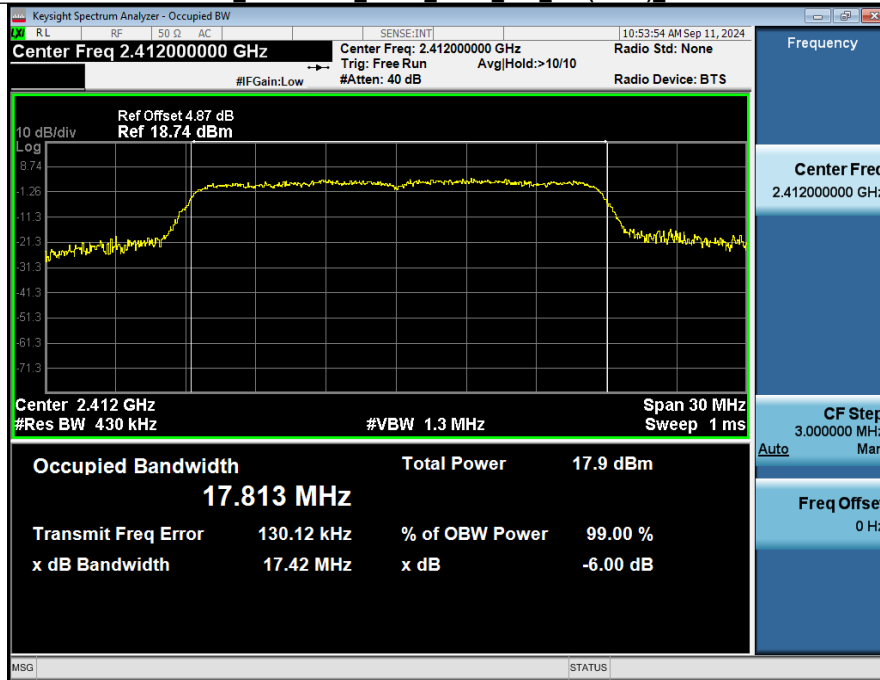
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



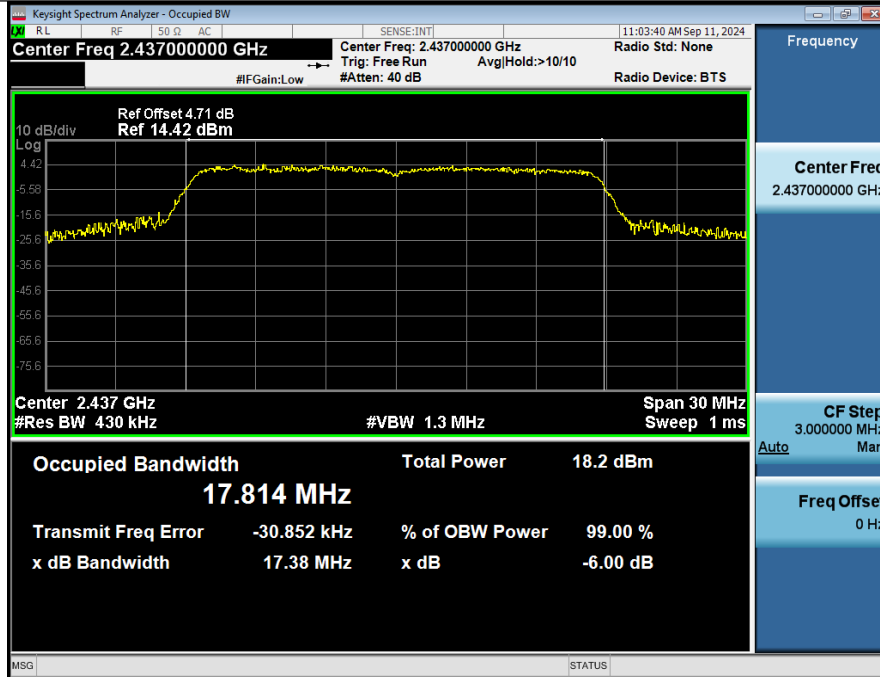
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



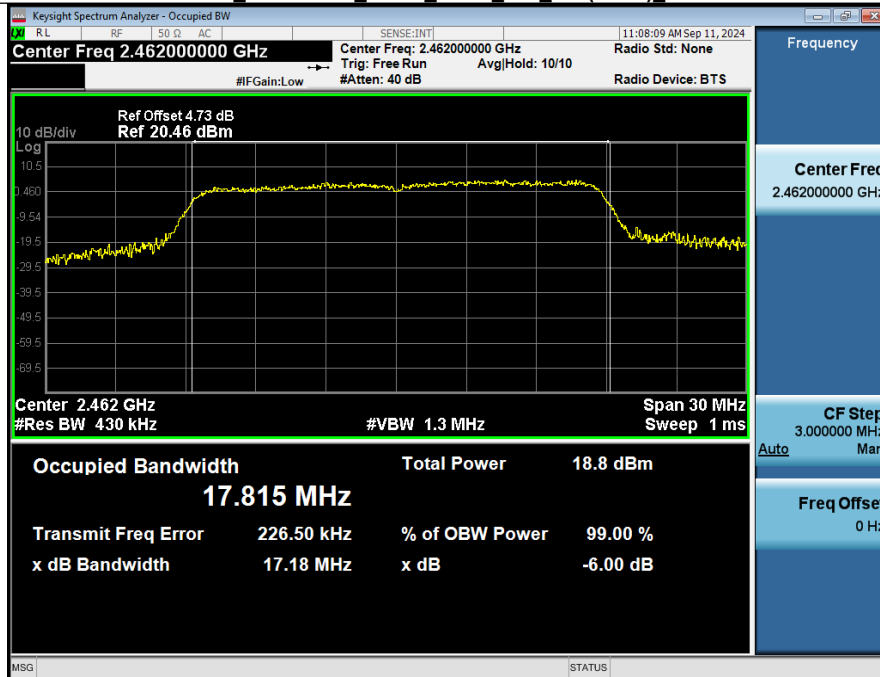
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



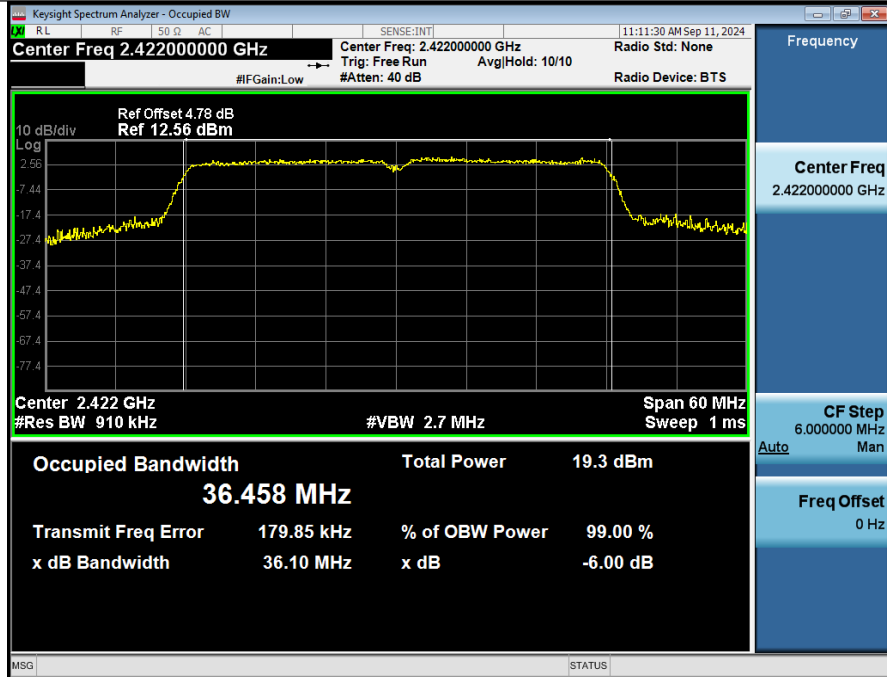
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



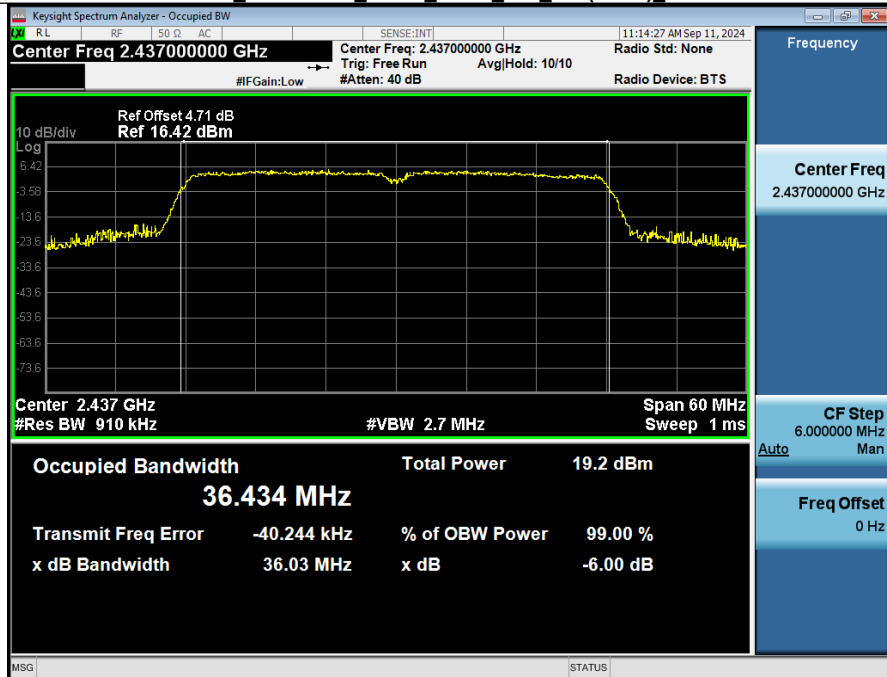
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

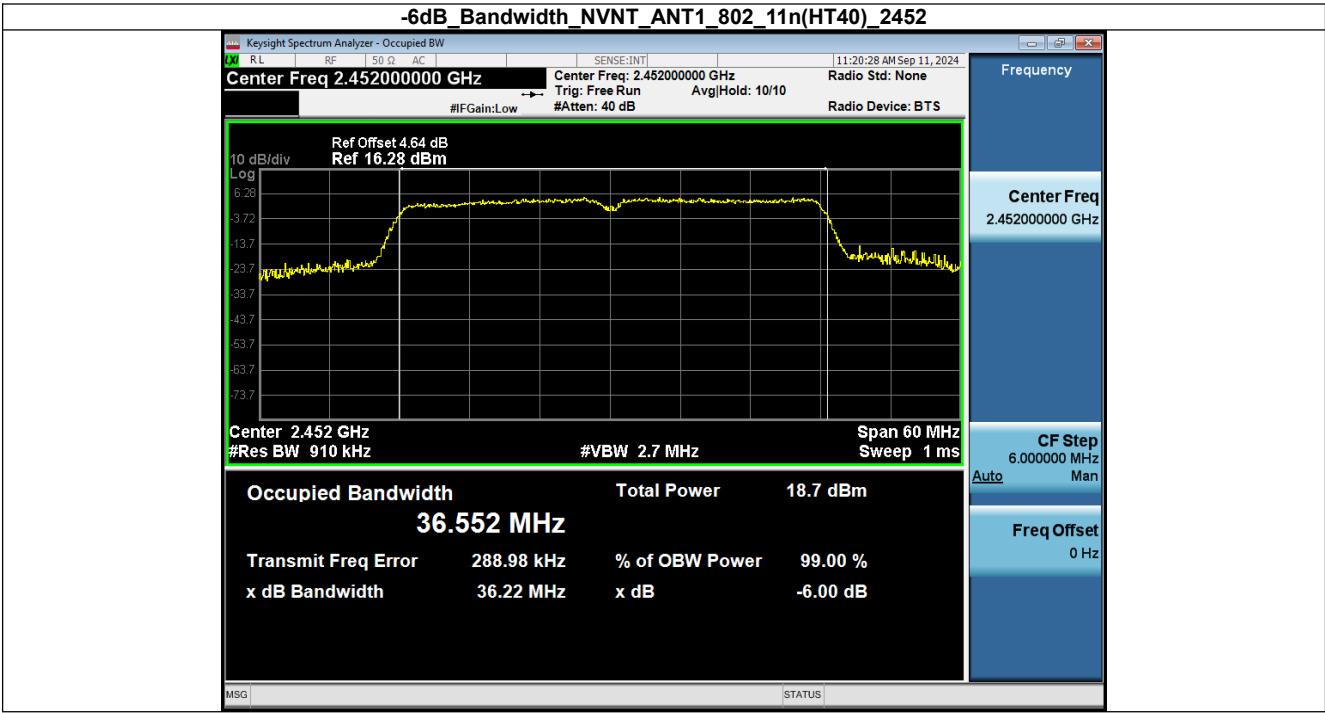


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



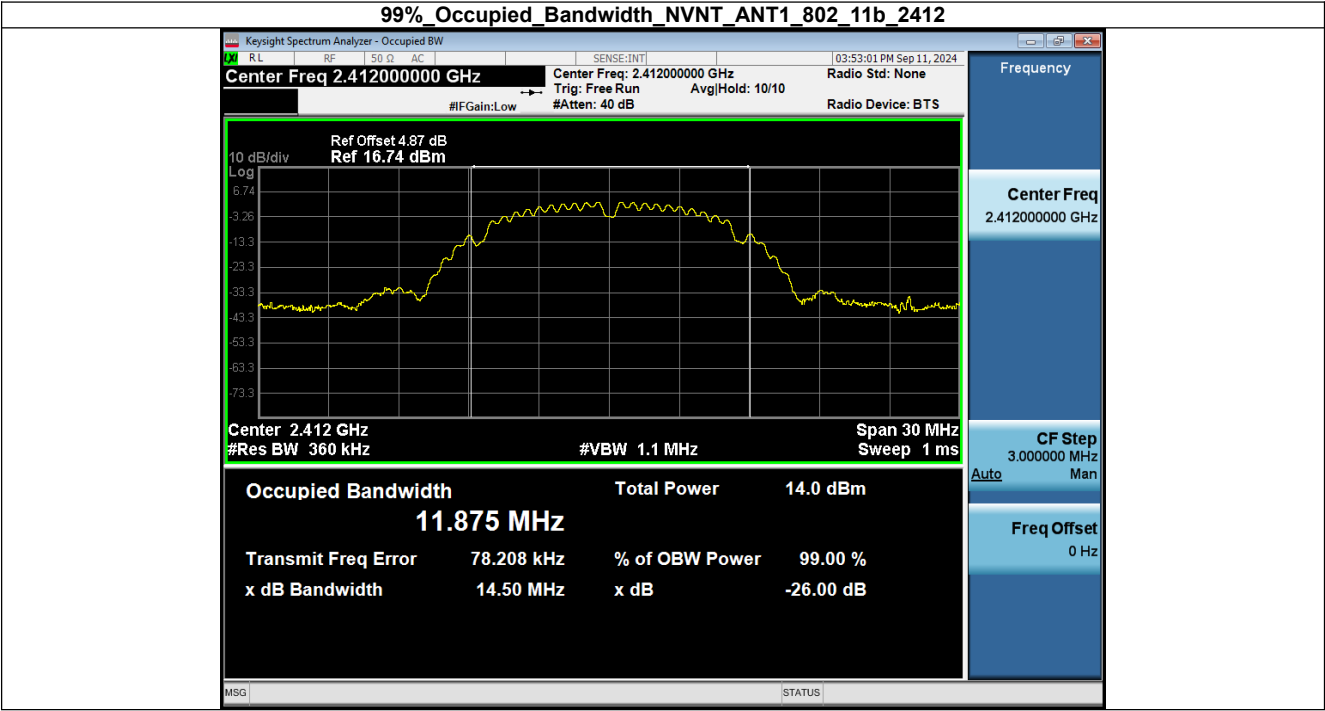
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



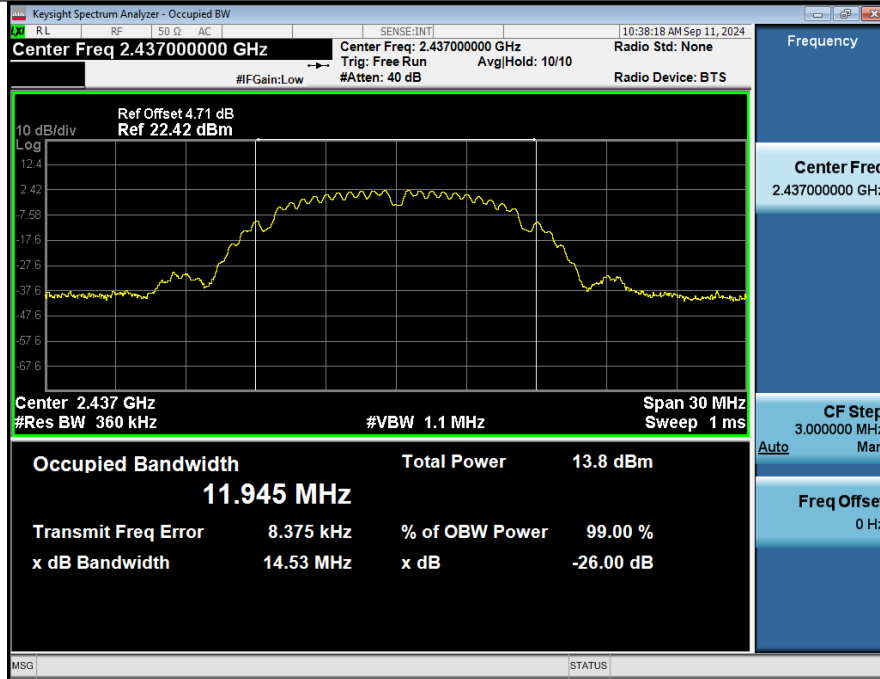


2. 99% Occupied Bandwidth

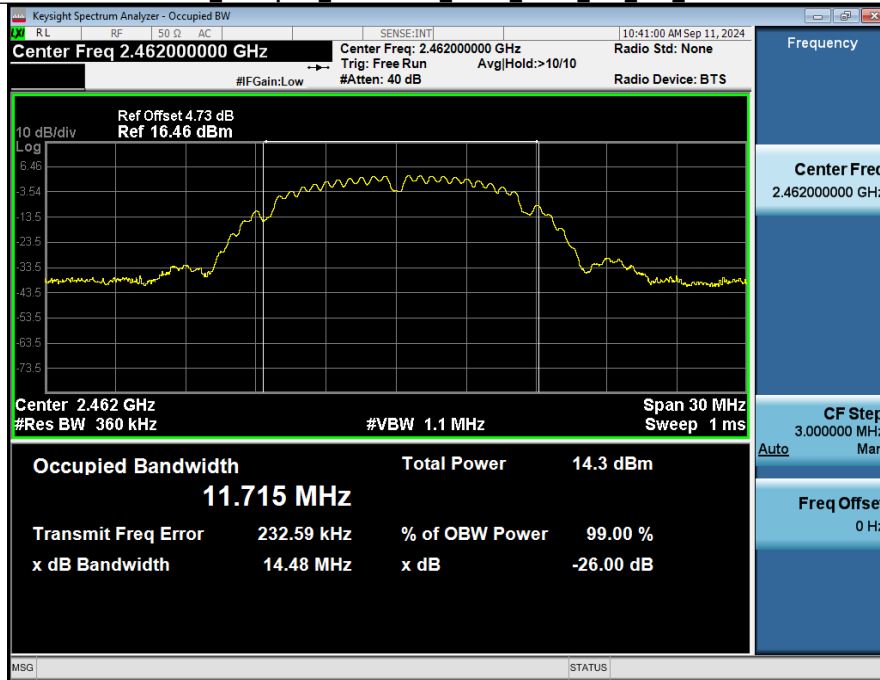
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	11.875
NVNT	ANT1	802.11b	2437.00	11.945
NVNT	ANT1	802.11b	2462.00	11.715
NVNT	ANT1	802.11g	2412.00	17.135
NVNT	ANT1	802.11g	2437.00	17.262
NVNT	ANT1	802.11g	2462.00	17.071
NVNT	ANT1	802.11n(HT20)	2412.00	17.875
NVNT	ANT1	802.11n(HT20)	2437.00	17.918
NVNT	ANT1	802.11n(HT20)	2462.00	17.860
NVNT	ANT1	802.11n(HT40)	2422.00	36.486
NVNT	ANT1	802.11n(HT40)	2437.00	36.424
NVNT	ANT1	802.11n(HT40)	2452.00	36.611



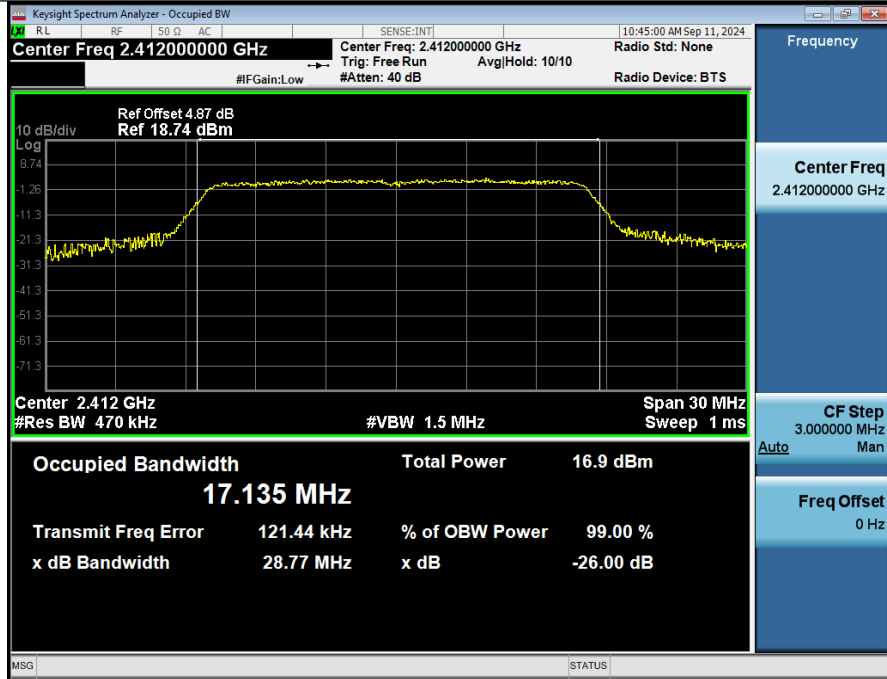
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



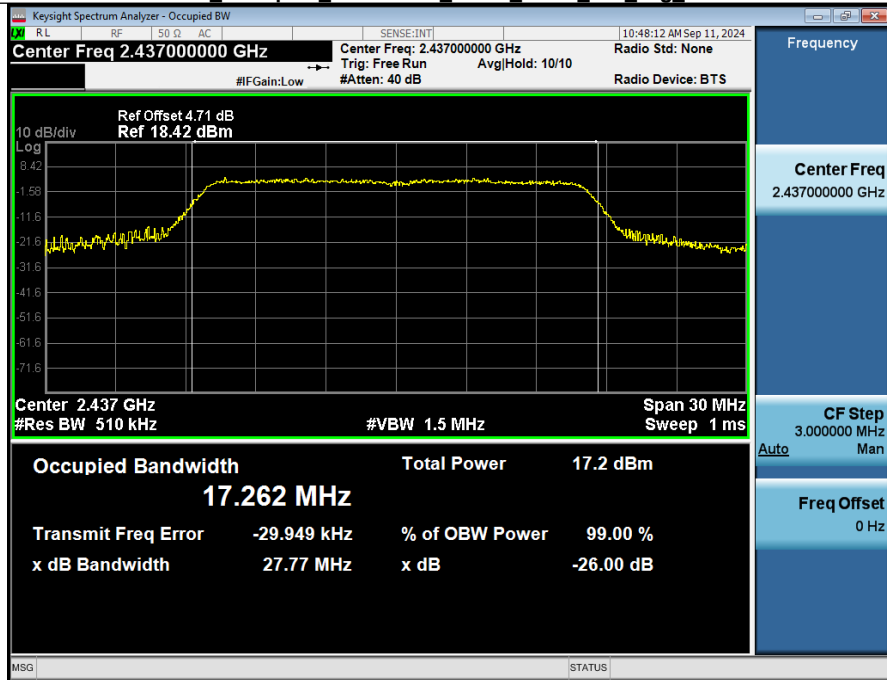
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



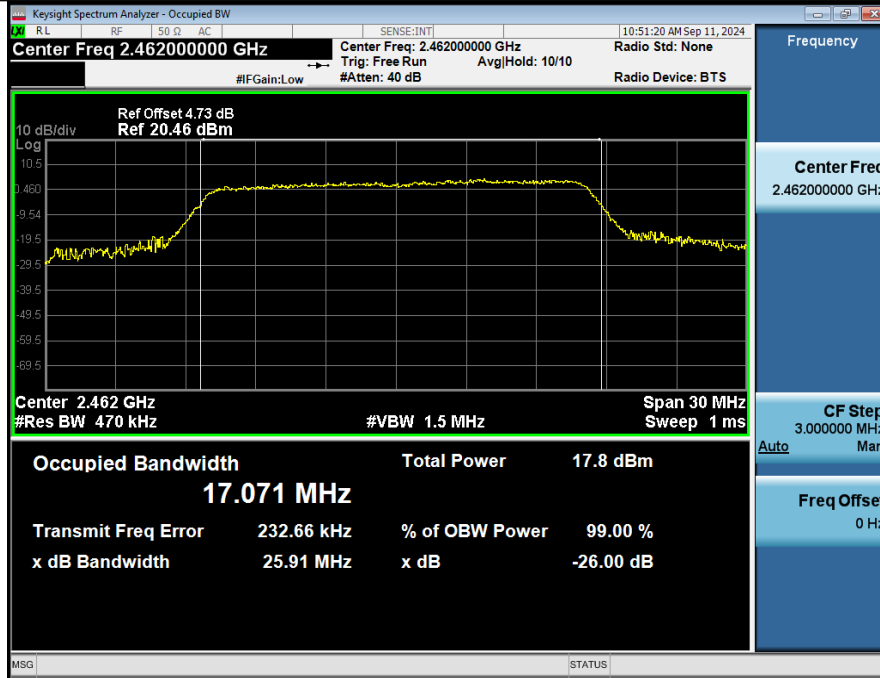
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



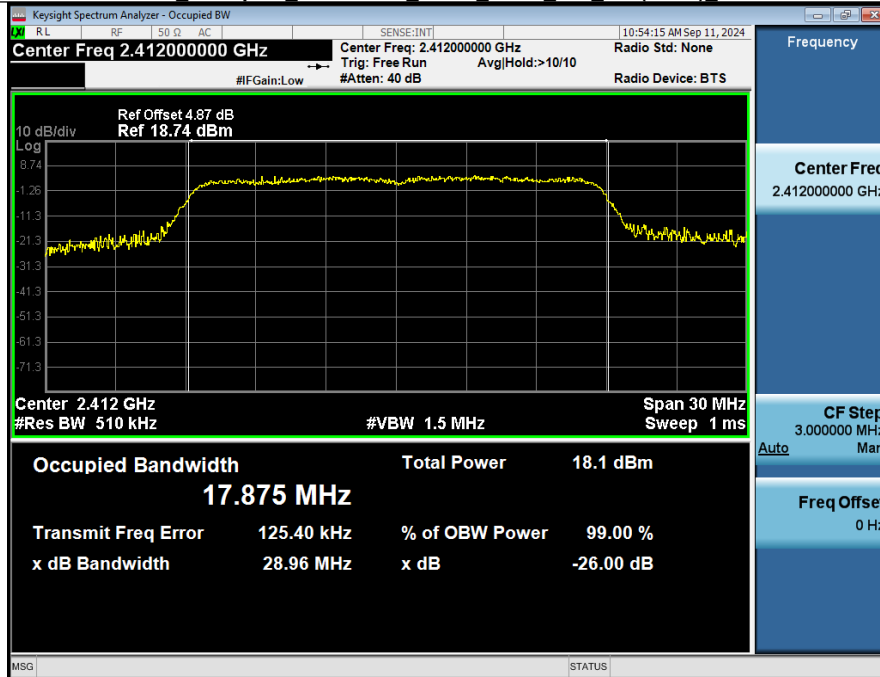
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



99% Occupied Bandwidth NVNT_ANT1_802_11g_2462



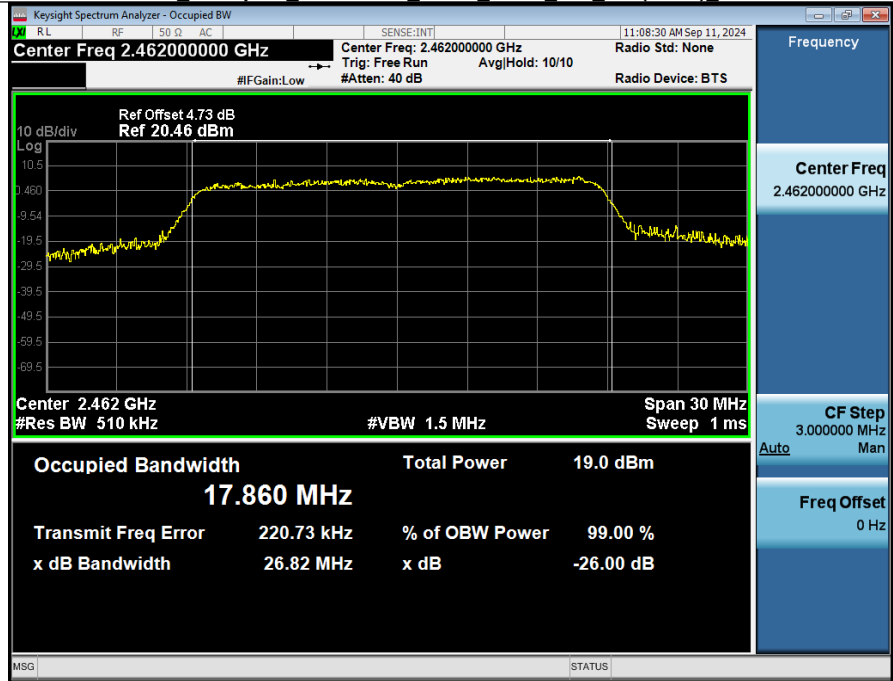
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412

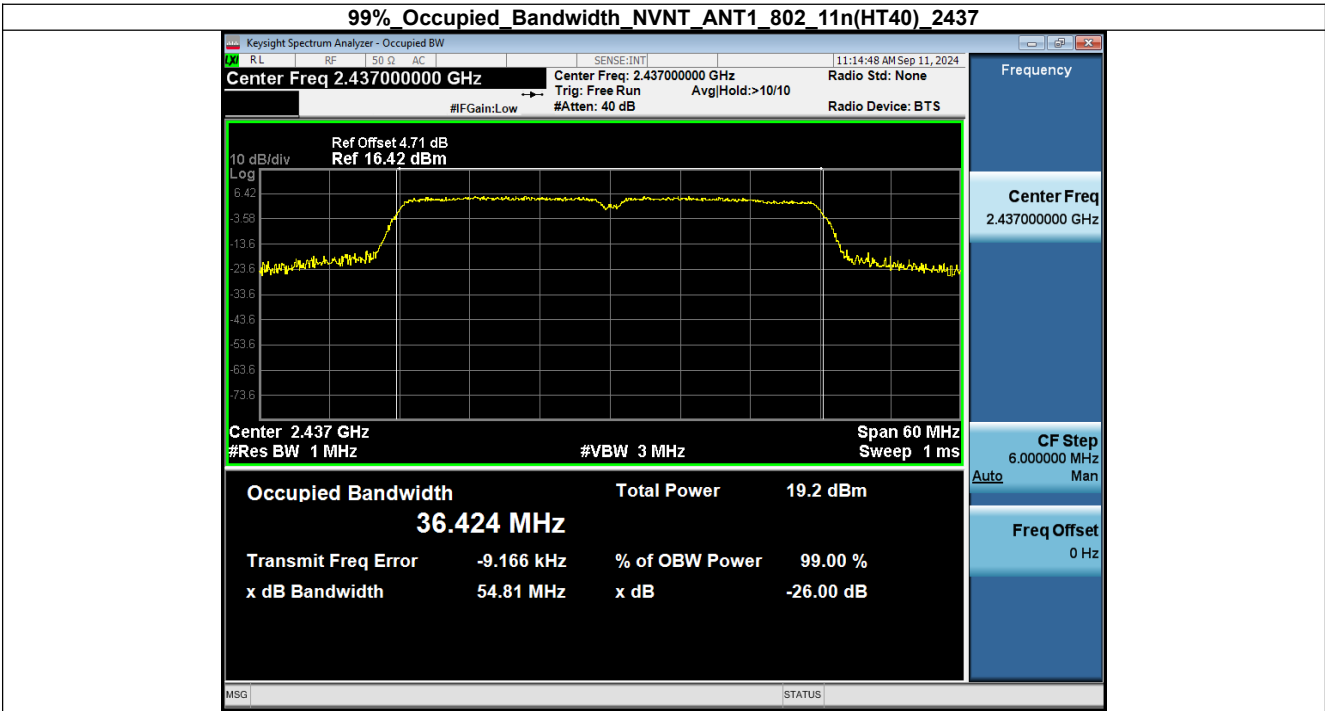
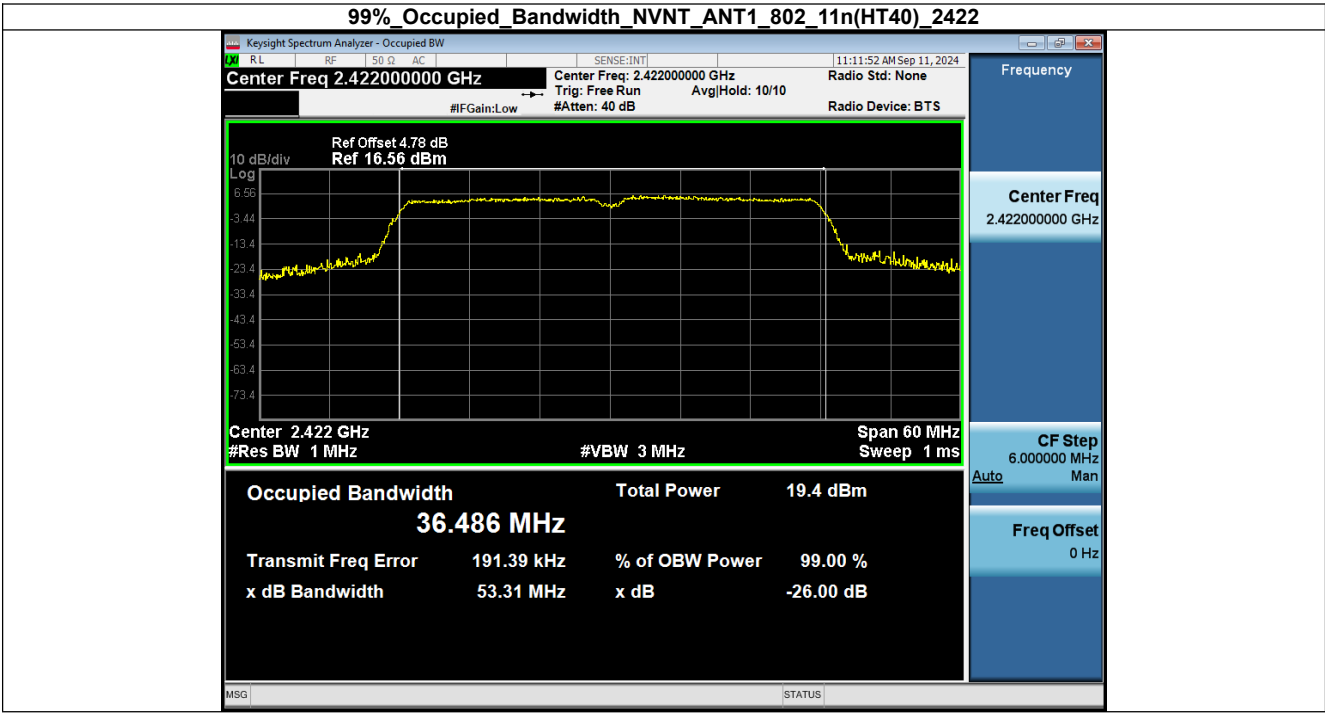


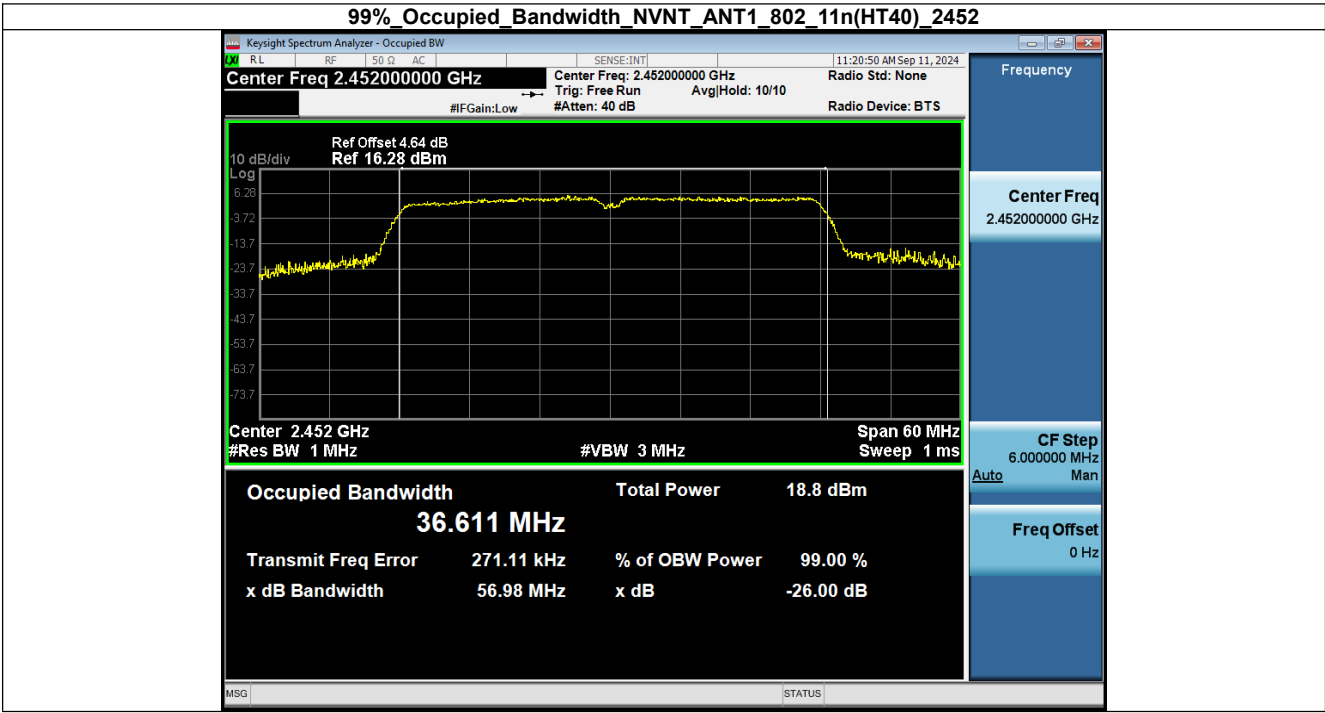
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462

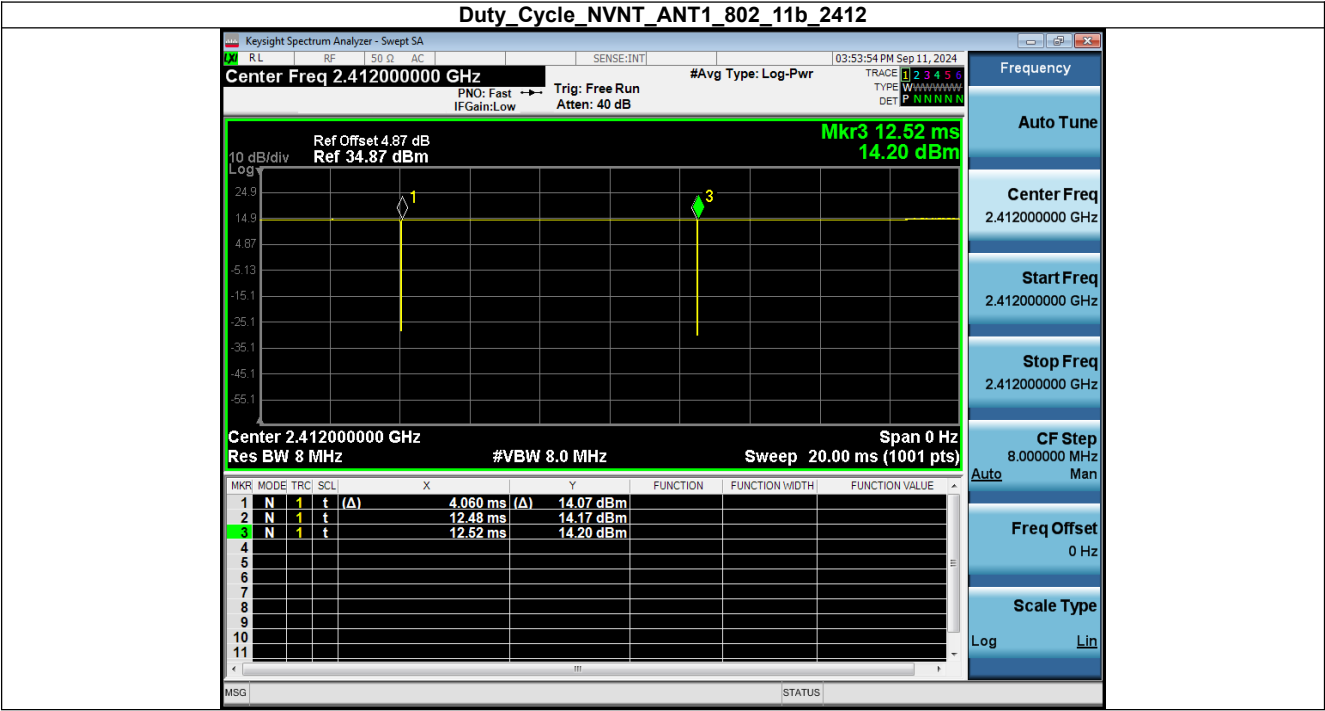




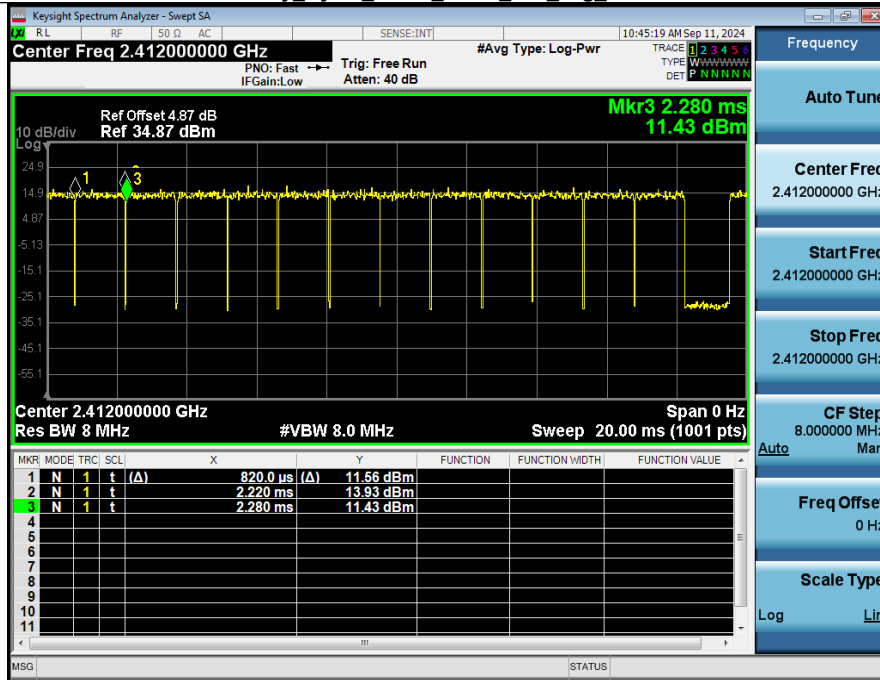


3. Duty Cycle

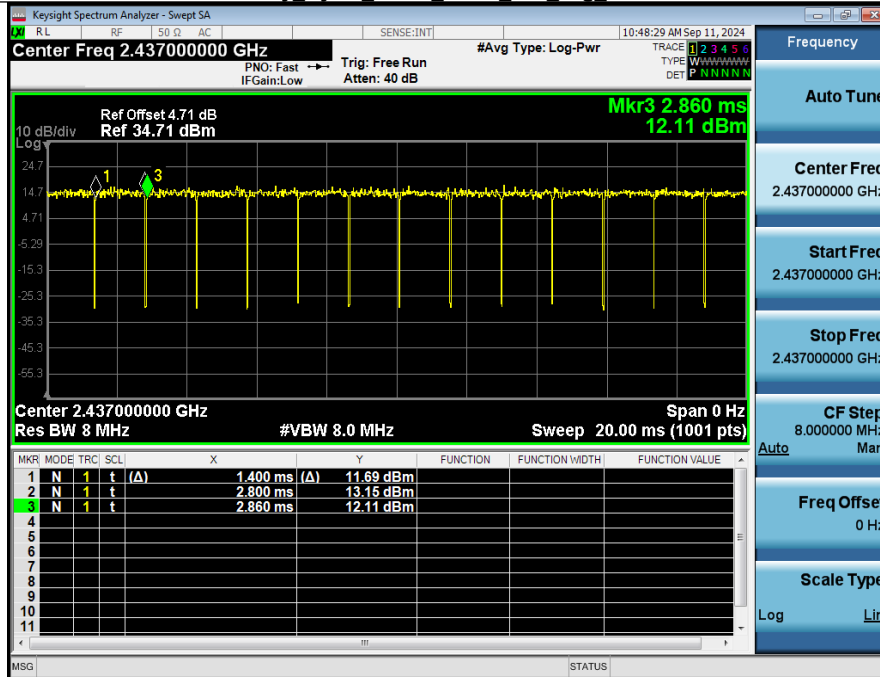
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.22	0.12
NVNT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



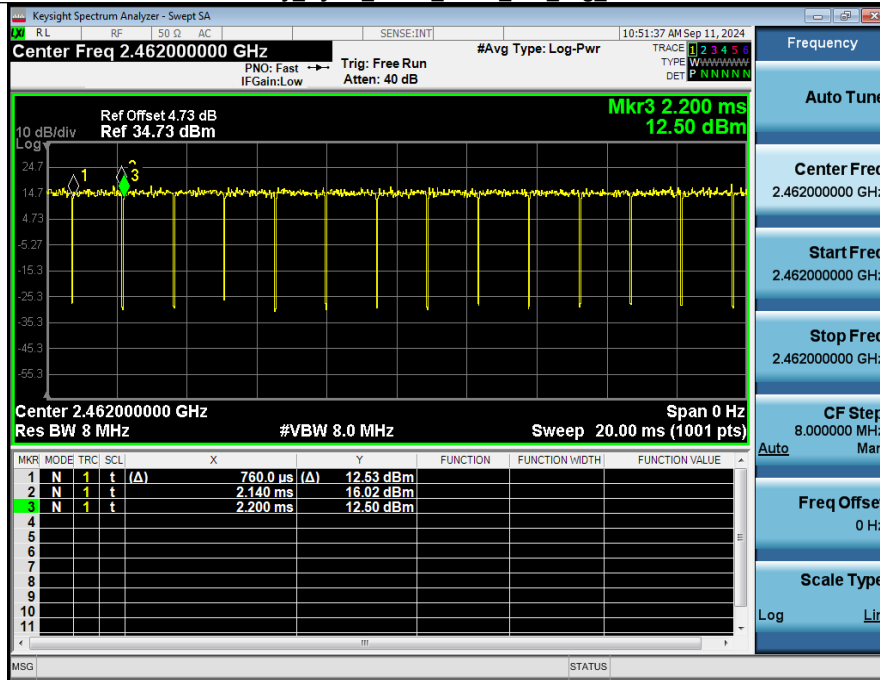
Duty Cycle NVNT ANT1_802_11g_2412



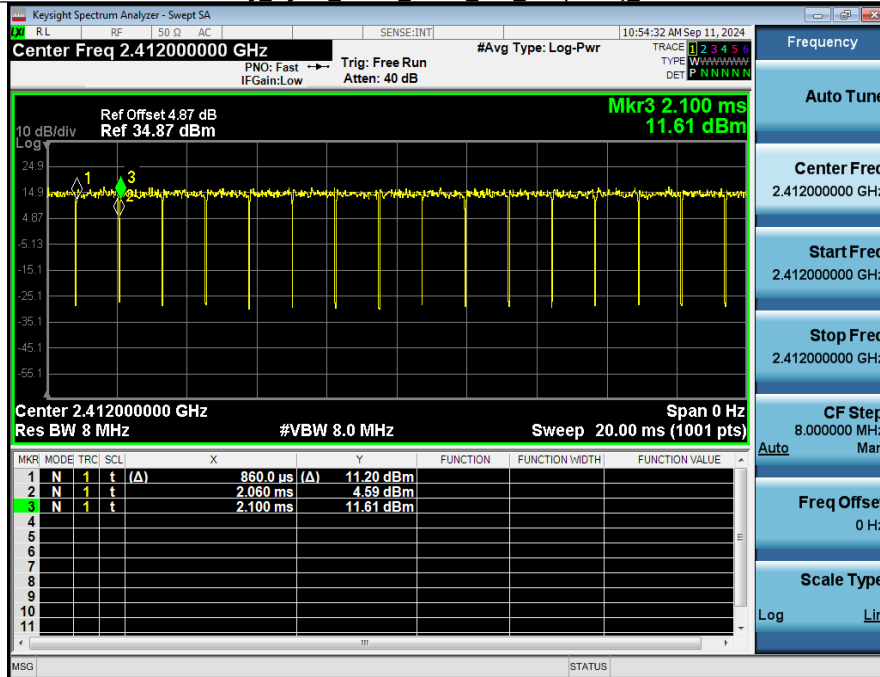
Duty Cycle NVNT ANT1_802_11g_2437



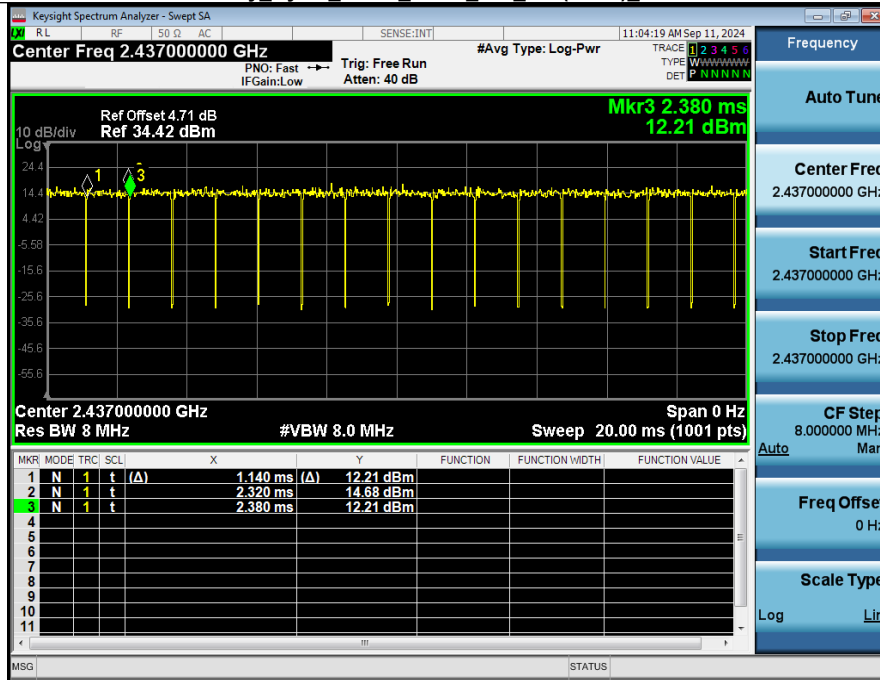
Duty Cycle NVNT_ANT1_802_11g_2462



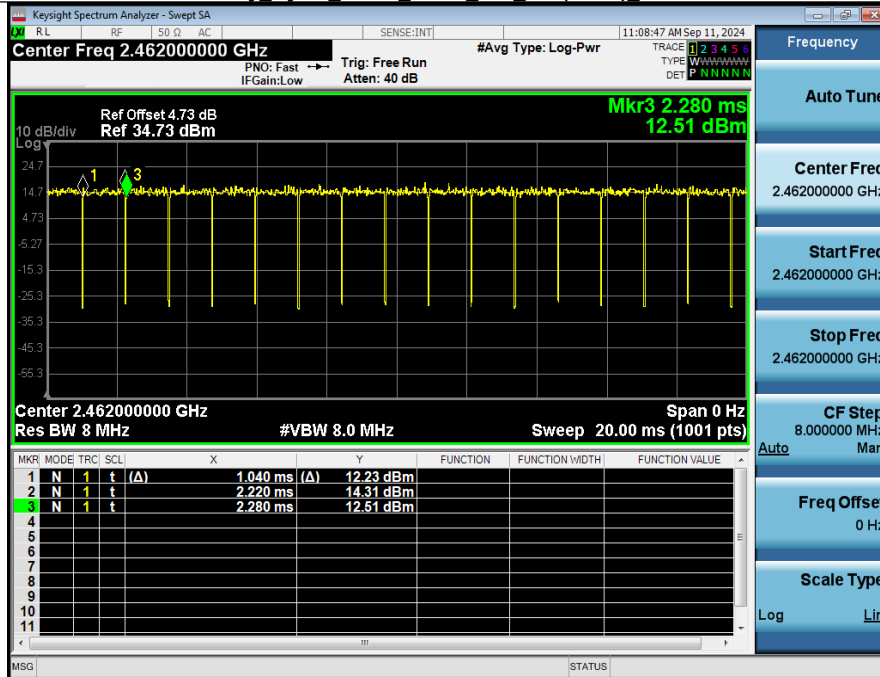
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



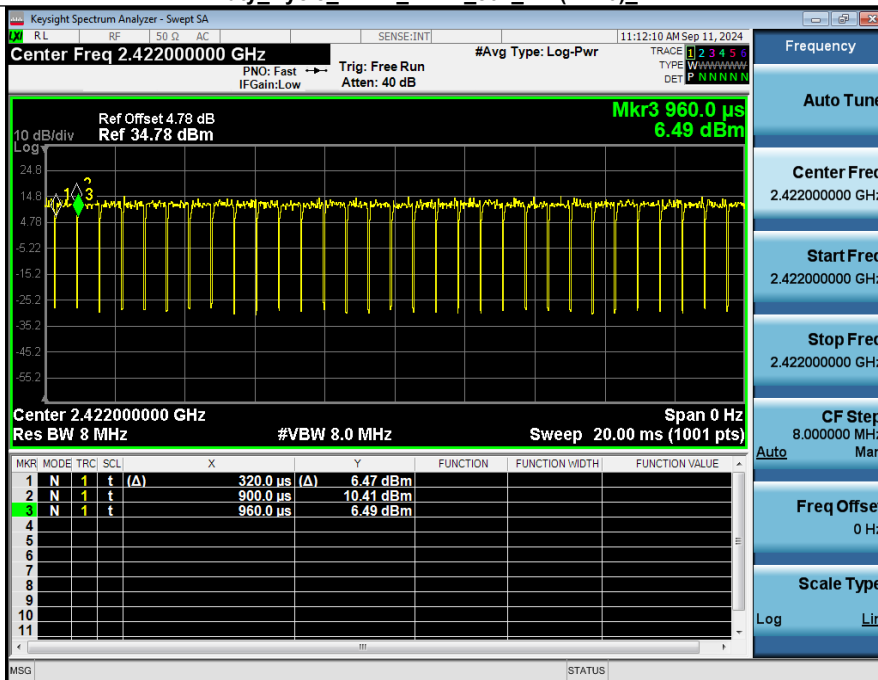
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



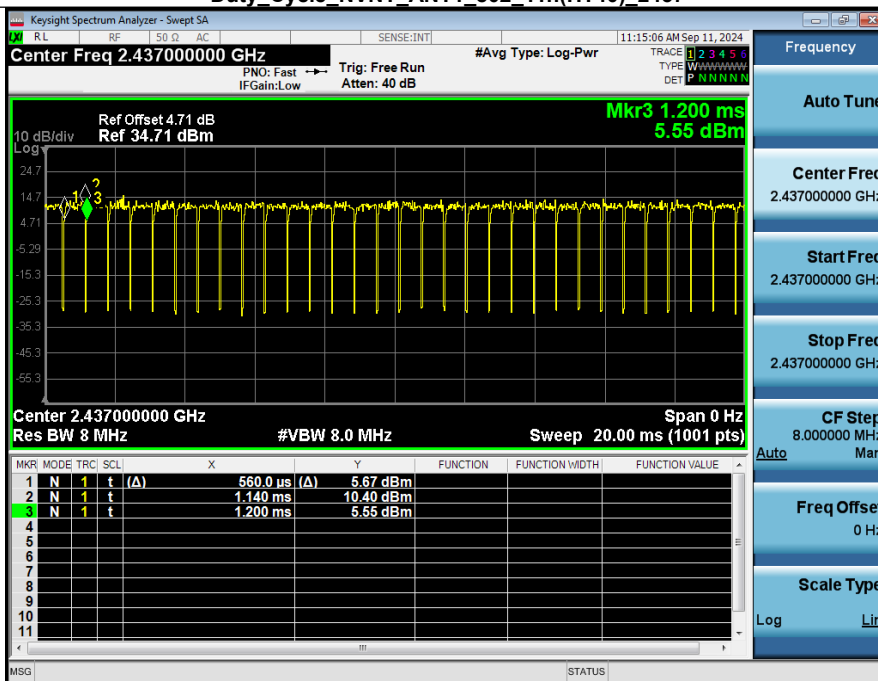
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



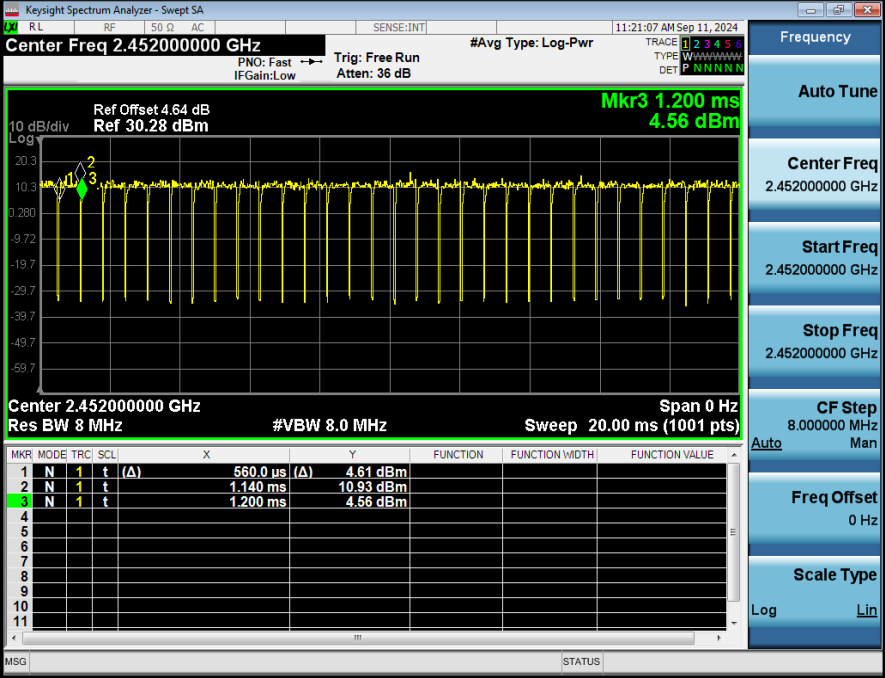
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437

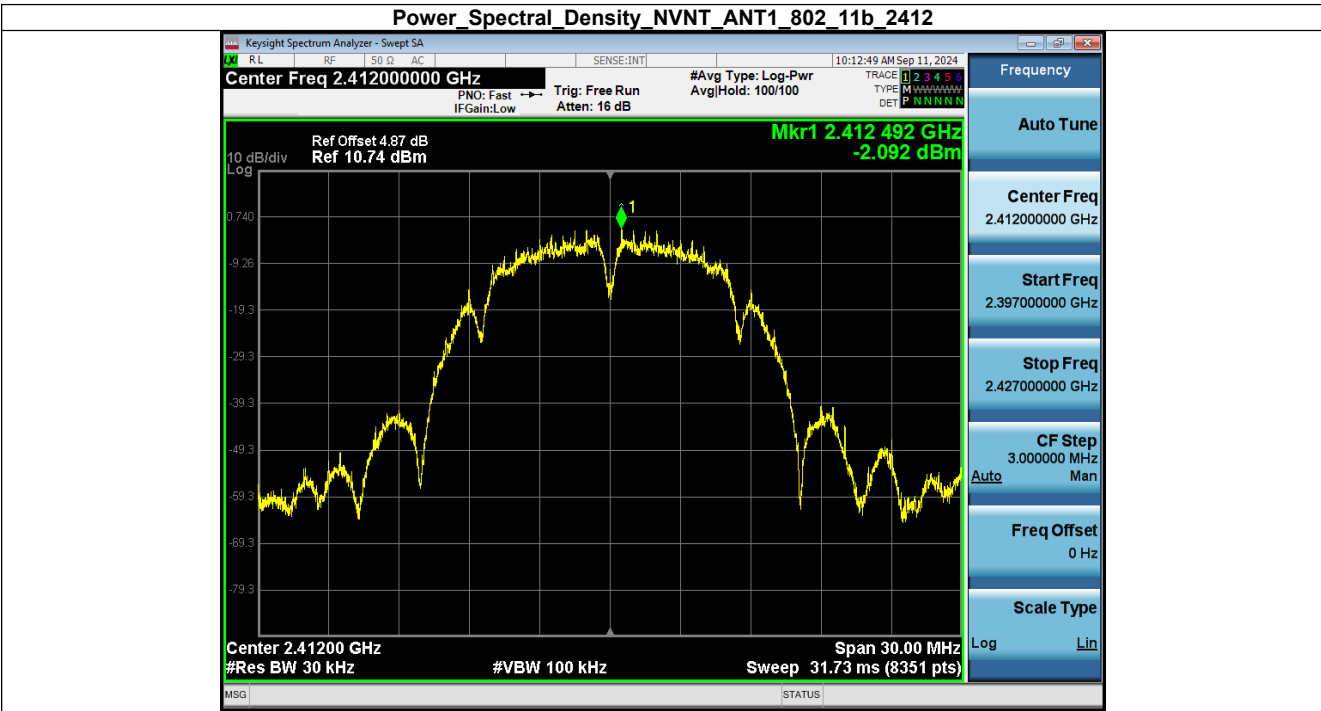


Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-2.09	-10.00	-12.09	8	Pass
NVNT	ANT1	802.11b	2437.00	-1.86	-10.00	-11.86	8	Pass
NVNT	ANT1	802.11b	2462.00	-1.36	-10.00	-11.36	8	Pass
NVNT	ANT1	802.11g	2412.00	-5.10	-10.00	-15.10	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.02	-10.00	-15.02	8	Pass
NVNT	ANT1	802.11g	2462.00	-4.82	-10.00	-14.82	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-5.77	-10.00	-15.77	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.80	-10.00	-15.80	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.25	-10.00	-14.25	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.49	-10.00	-17.49	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-8.14	-10.00	-18.14	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-8.88	-10.00	-18.88	8	Pass



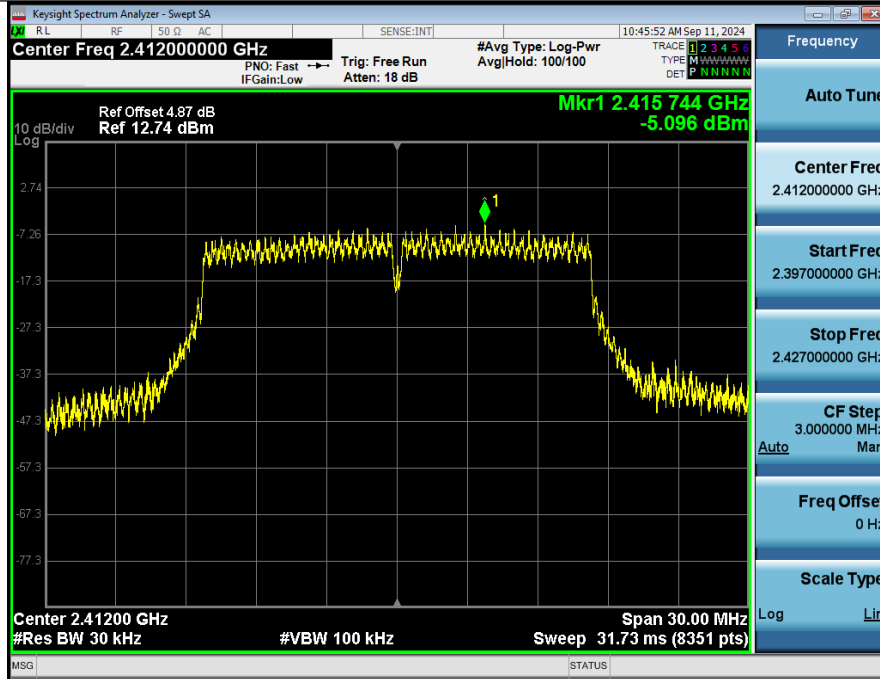
Power Spectral Density NVNT_ANT1_802_11b_2437



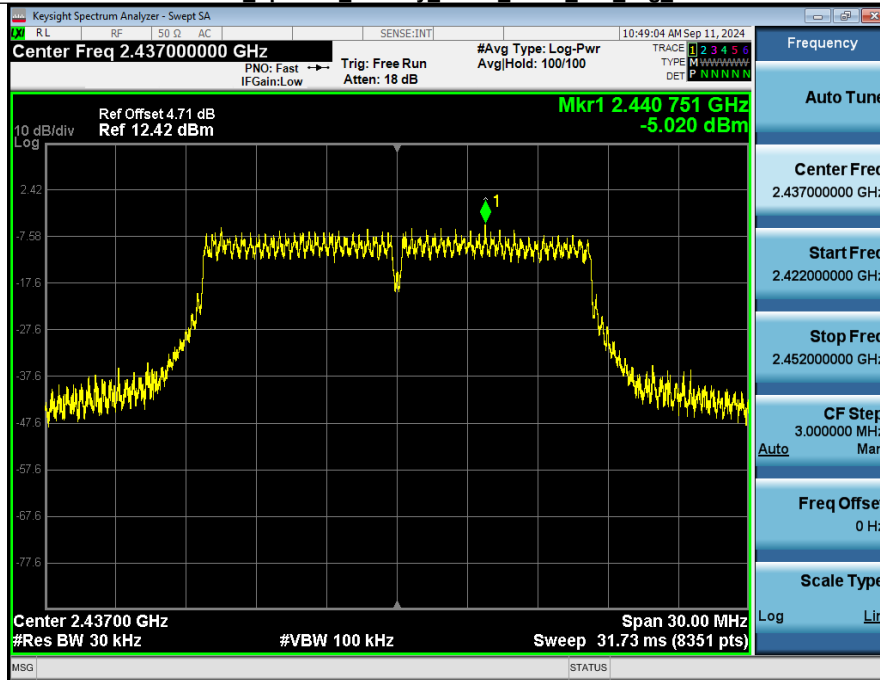
Power Spectral Density NVNT_ANT1_802_11b_2462



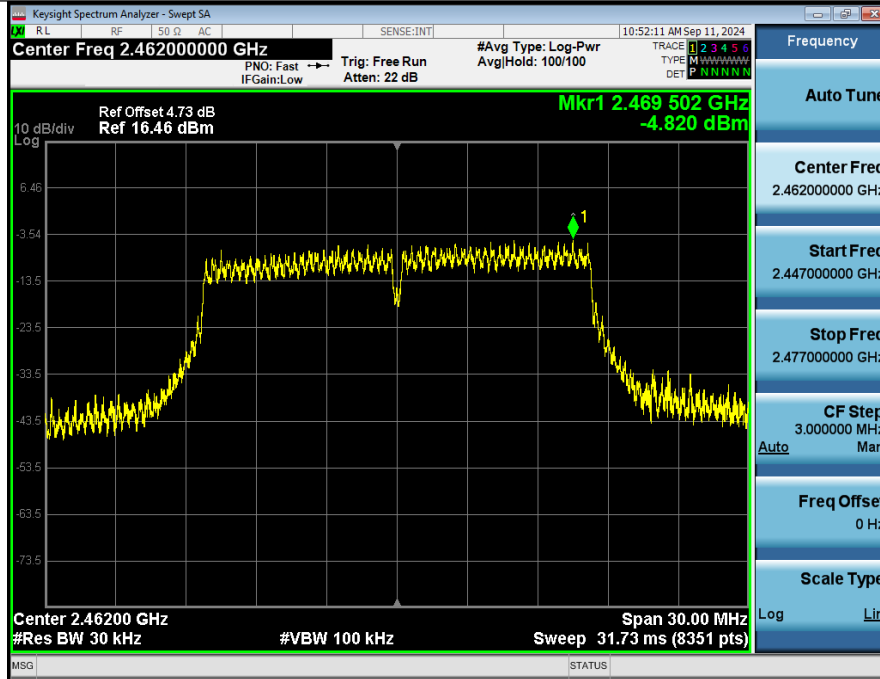
Power Spectral Density_NVNT_ANT1_802_11g_2412



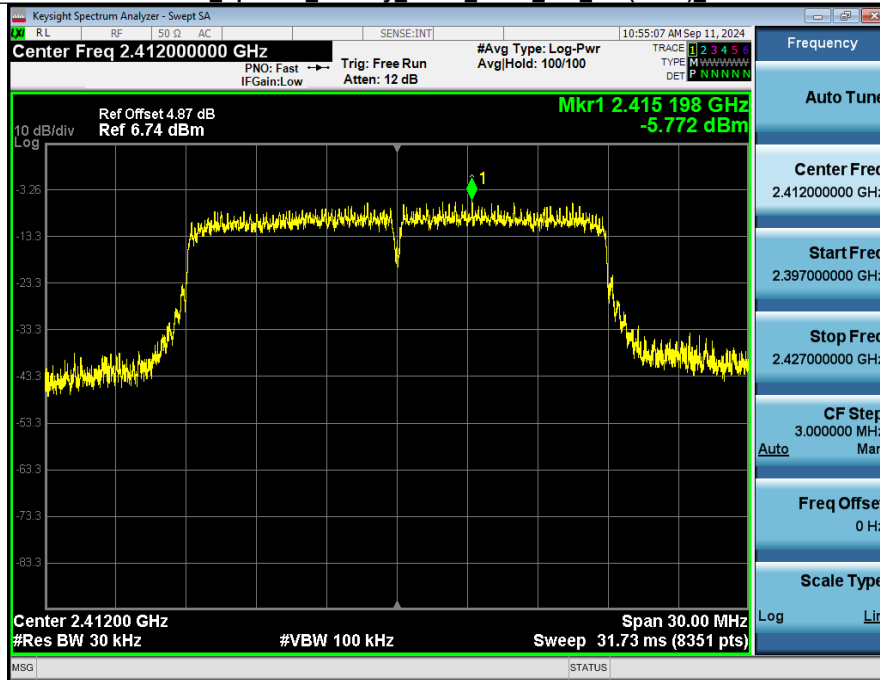
Power Spectral Density_NVNT_ANT1_802_11g_2437



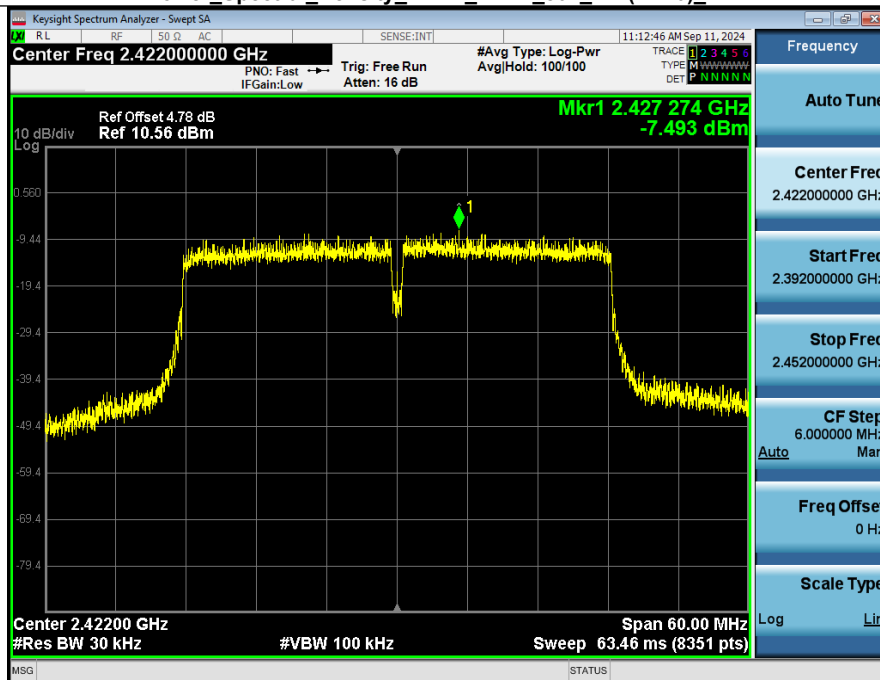
Power Spectral Density_NVNT_ANT1_802_11g_2462



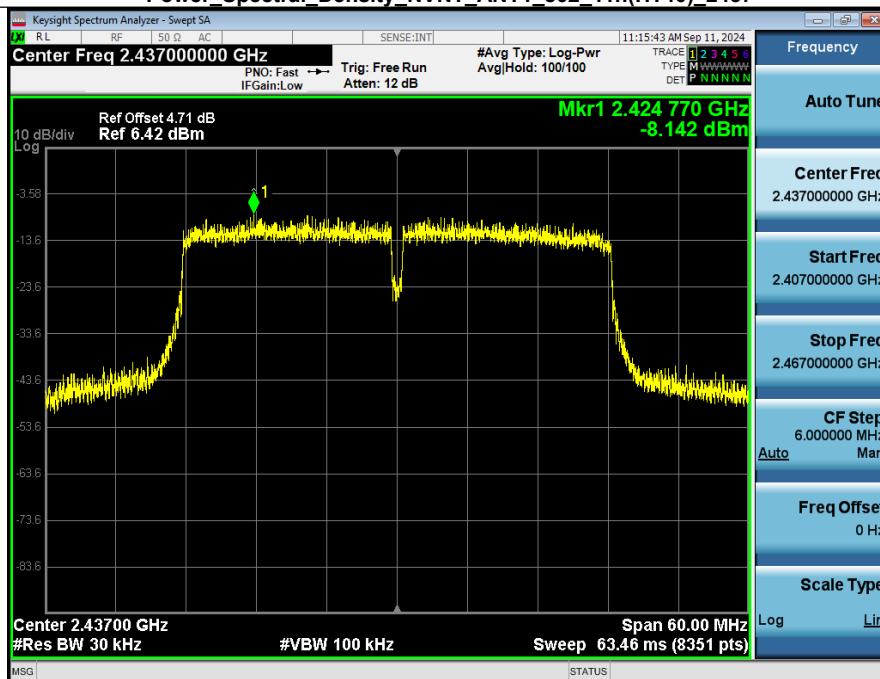
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412

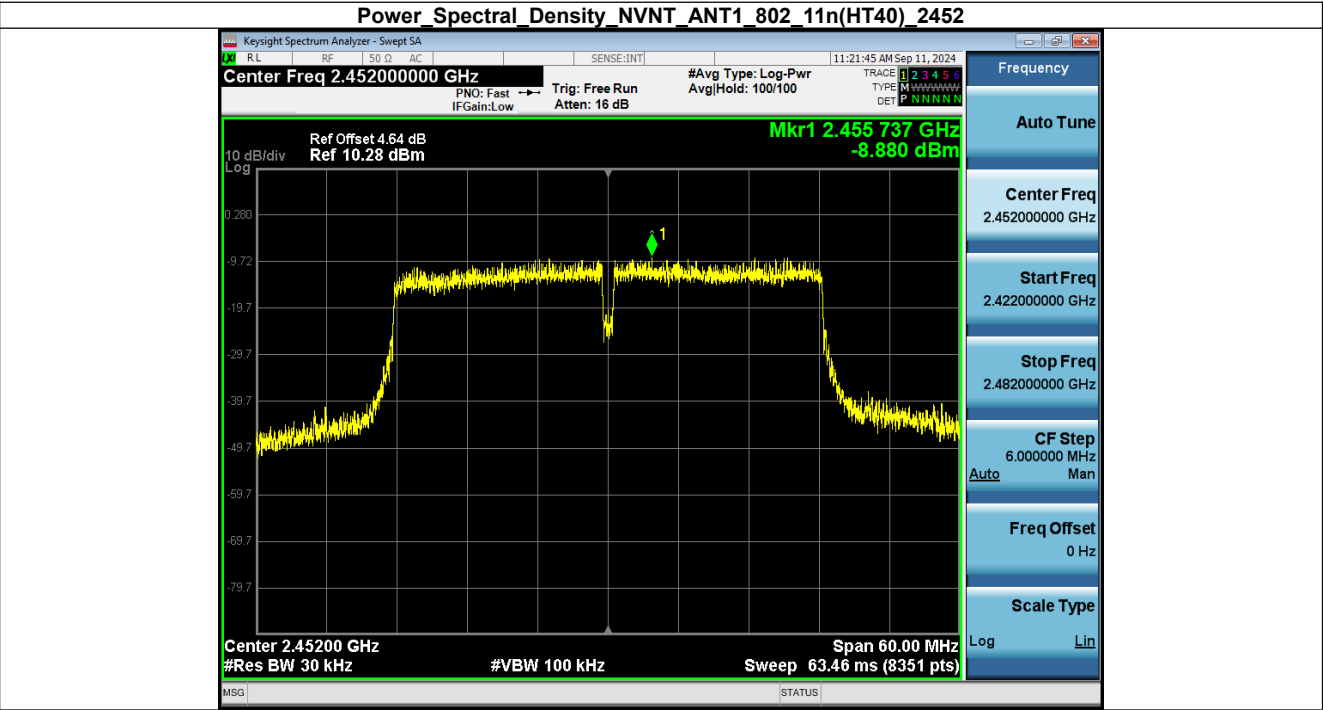


Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2422



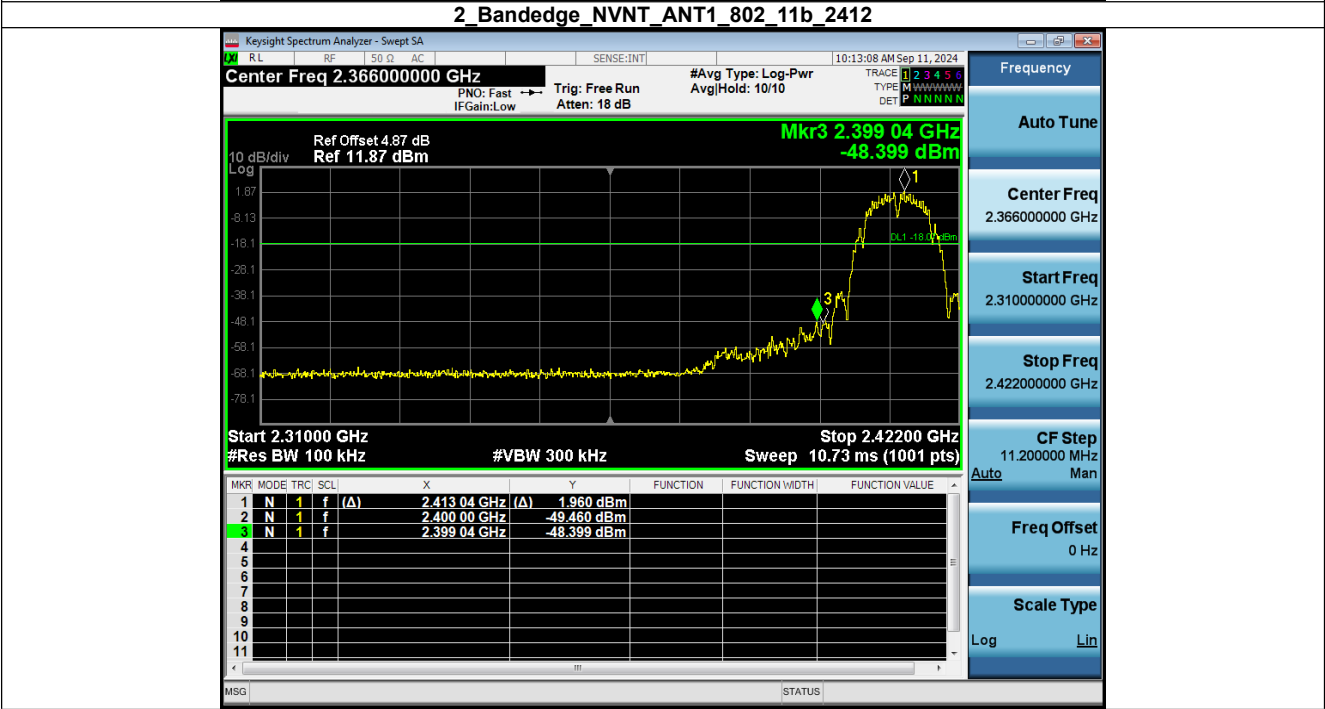
Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2437





6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.040	-48.399	-18.070	Pass
NVNT	ANT1	802.11b	2462.00	2485.024	-54.357	-17.419	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-33.799	-21.284	Pass
NVNT	ANT1	802.11g	2462.00	2484.160	-40.967	-20.214	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-31.296	-21.505	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.632	-39.166	-19.939	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-34.832	-23.152	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.816	-37.685	-24.075	Pass



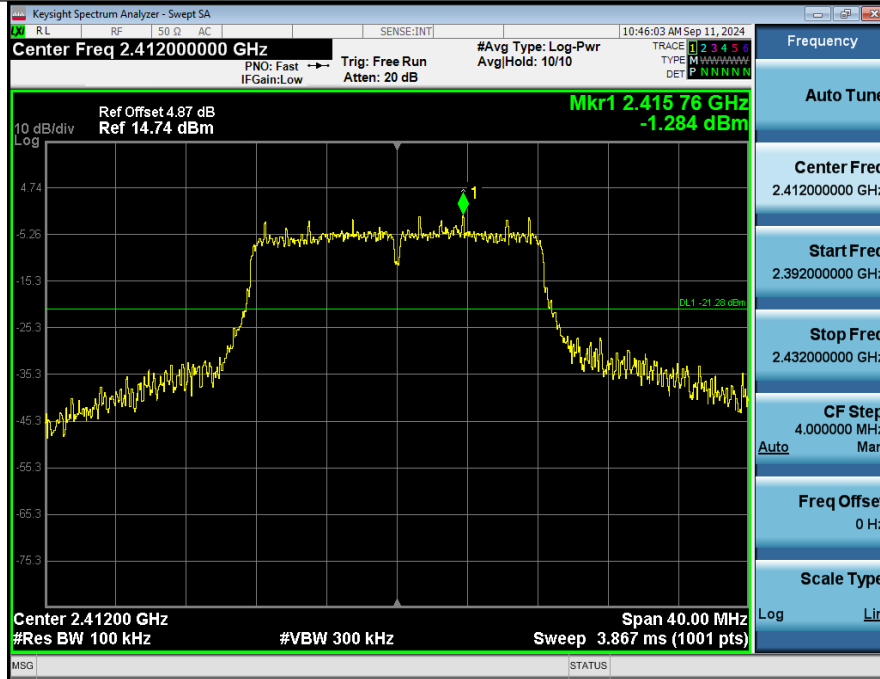
1 Reference_Level_NVNT_ANT1_802_11b_2462



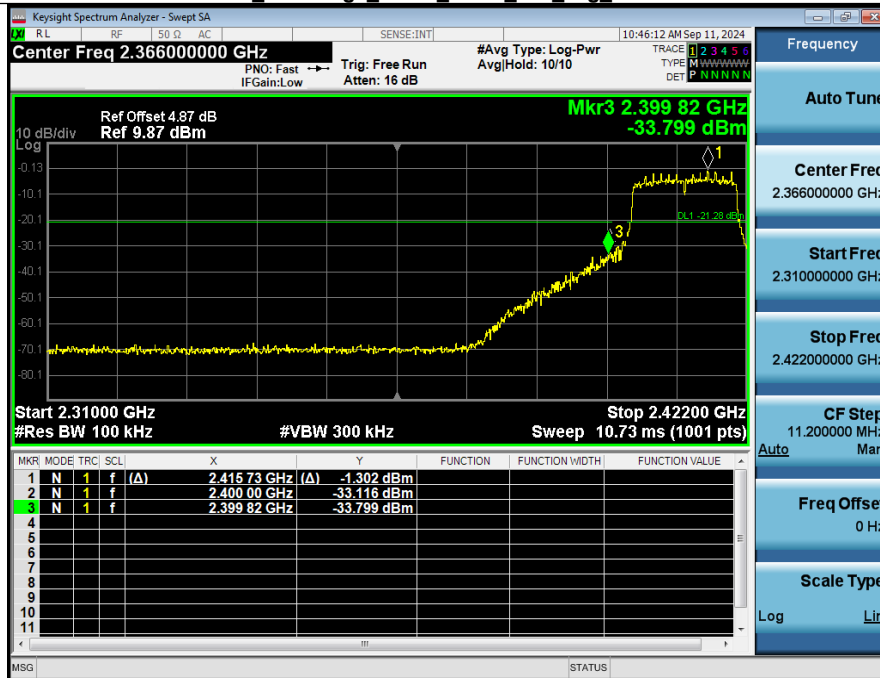
2 Bandedge_NVNT_ANT1_802_11b_2462



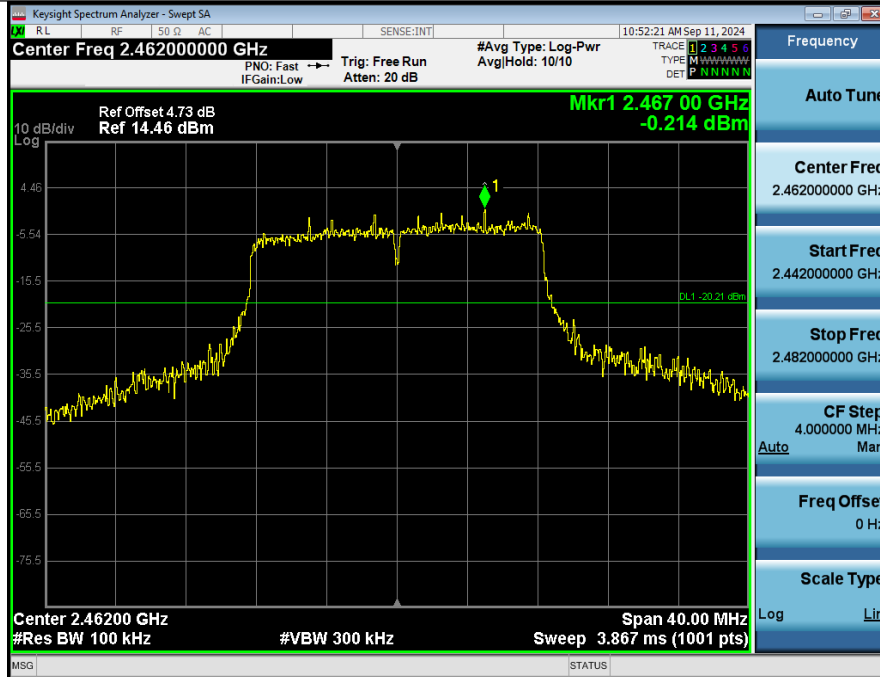
1 Reference Level_NVNT_ANT1_802_11g_2412



2 Bandedge_NVNT_ANT1_802_11g_2412



1 Reference Level_NVNT_ANT1_802_11g_2462



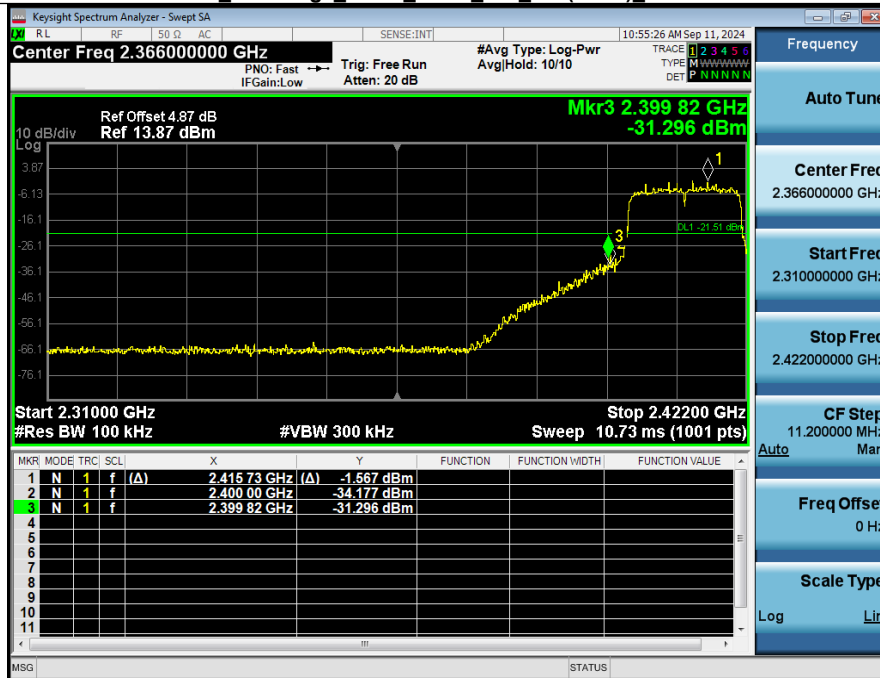
2 Bandedge_NVNT_ANT1_802_11g_2462



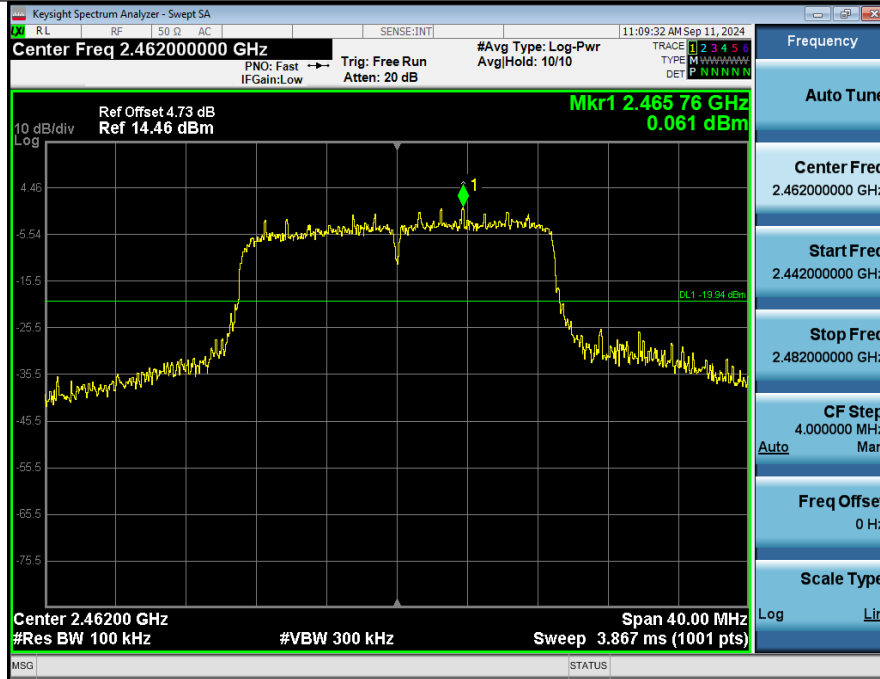
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



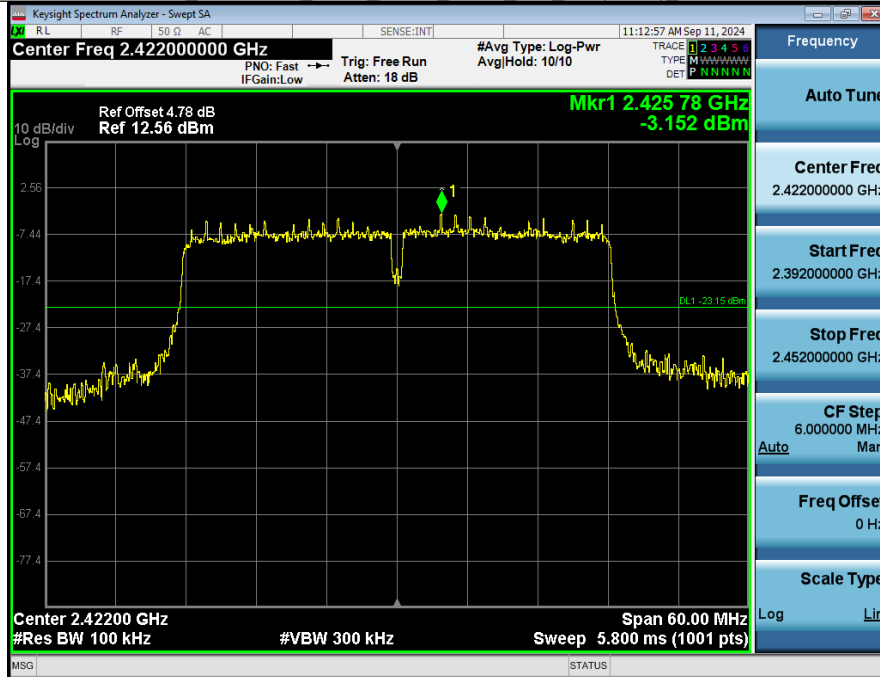
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



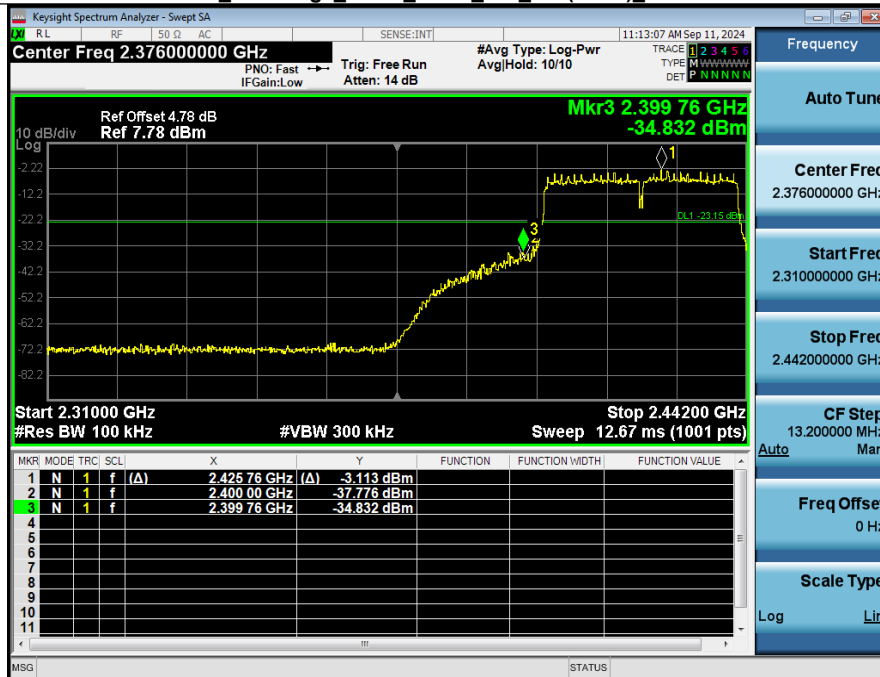
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



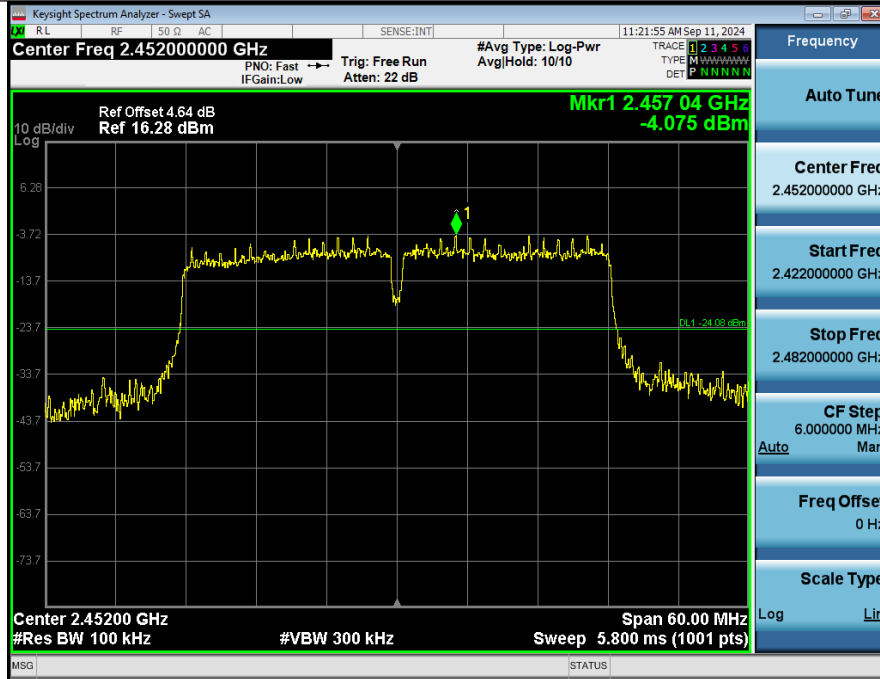
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452

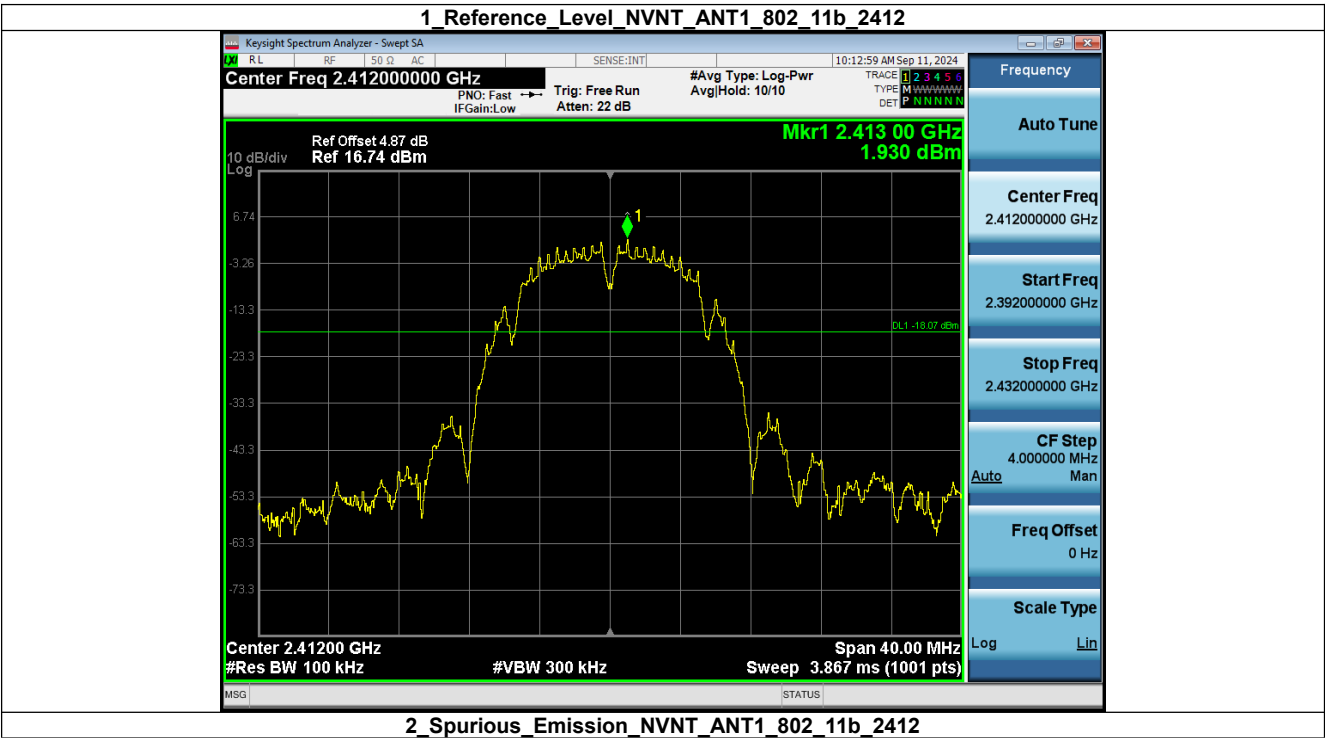


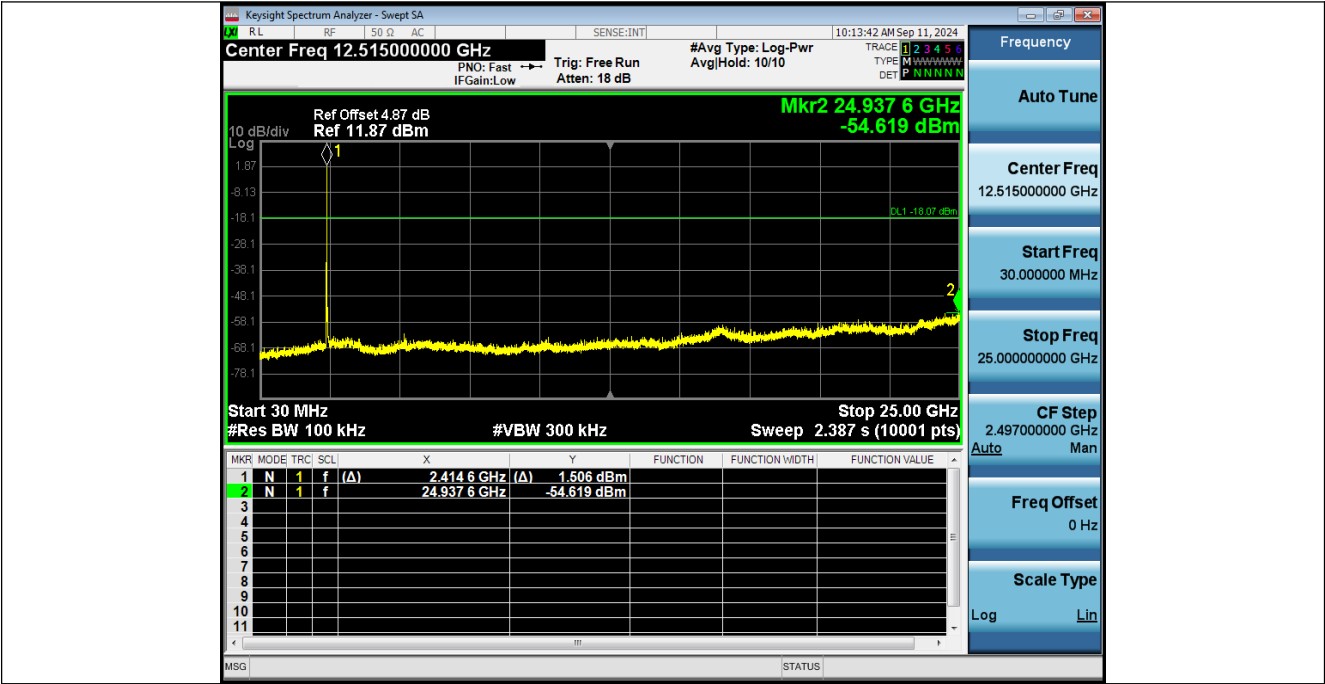
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



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	24937.575	-54.619	-18.070	Pass
NVNT	ANT1	802.11b	2437.00	24475.630	-55.185	-17.991	Pass
NVNT	ANT1	802.11b	2462.00	24997.503	-48.103	-17.419	Pass
NVNT	ANT1	802.11g	2412.00	24985.018	-56.254	-21.284	Pass
NVNT	ANT1	802.11g	2437.00	24950.060	-53.289	-20.955	Pass
NVNT	ANT1	802.11g	2462.00	24927.587	-57.060	-20.214	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24235.918	-52.915	-21.505	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24985.018	-57.568	-21.332	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	913.938	-21.562	-19.939	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	5181.311	-58.402	-23.152	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24990.012	-55.101	-23.714	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	826.543	-40.541	-24.075	Pass

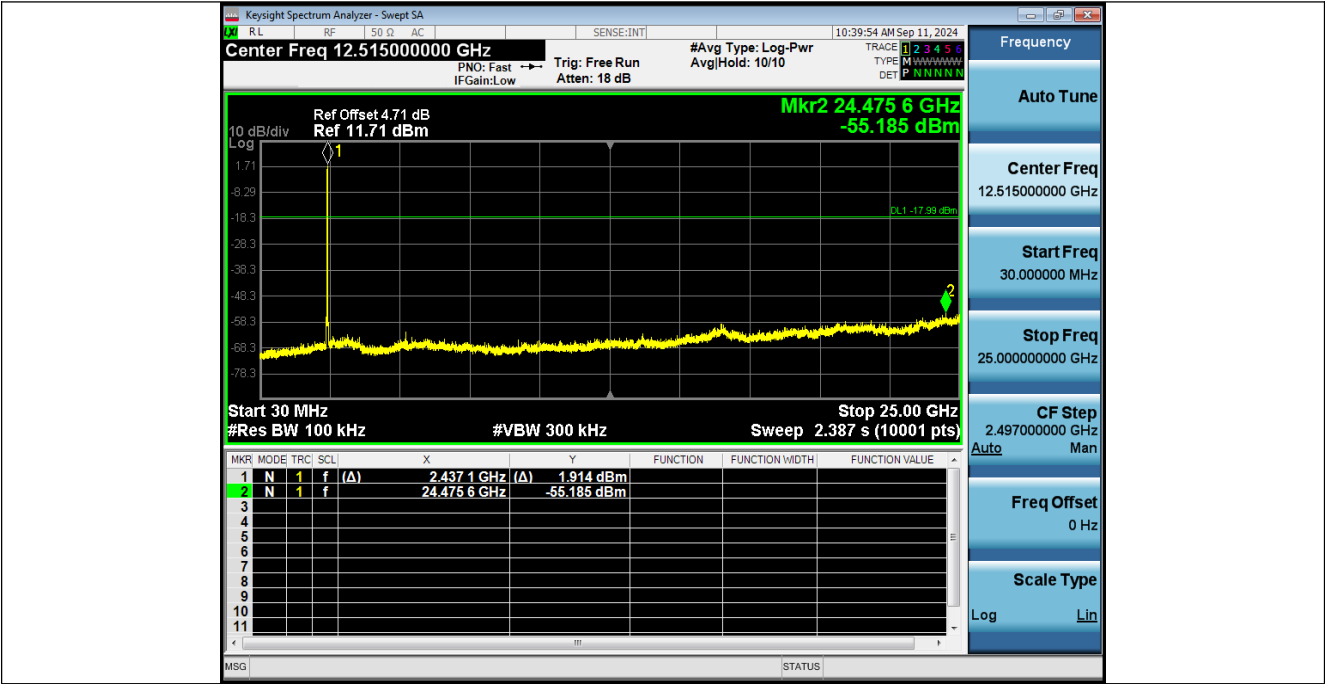




1 Reference Level NVNT_ANT1_802_11b_2437



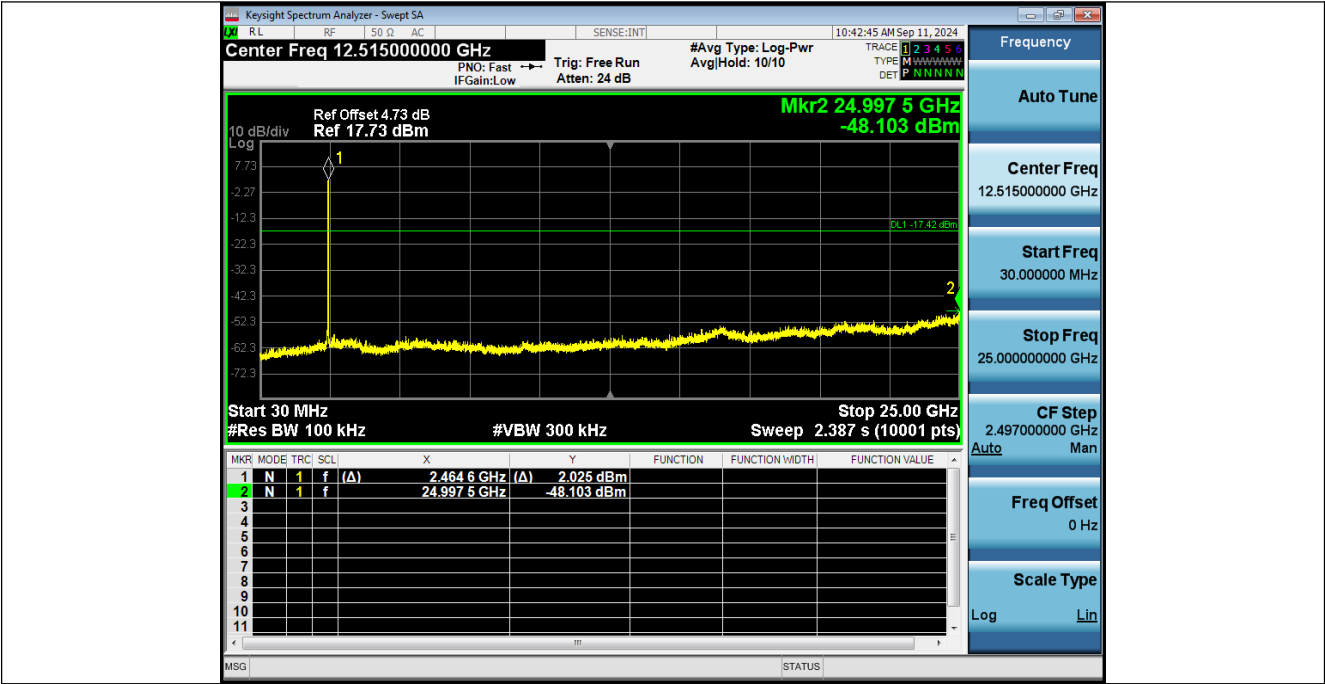
2 Spurious_Emission_NVNT_ANT1_802_11b_2437



1 Reference Level NVNT_ANT1_802_11b_2462



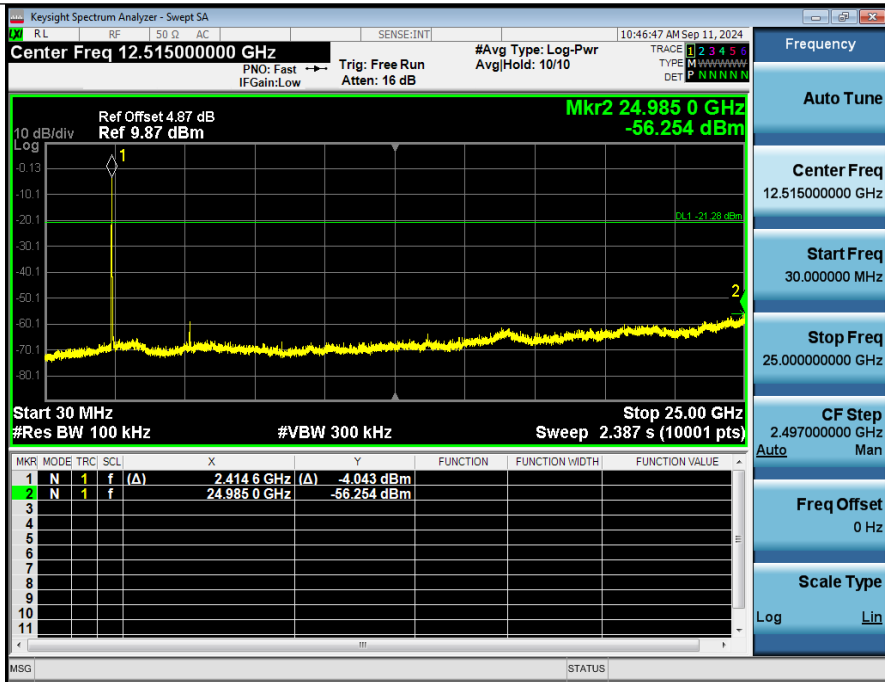
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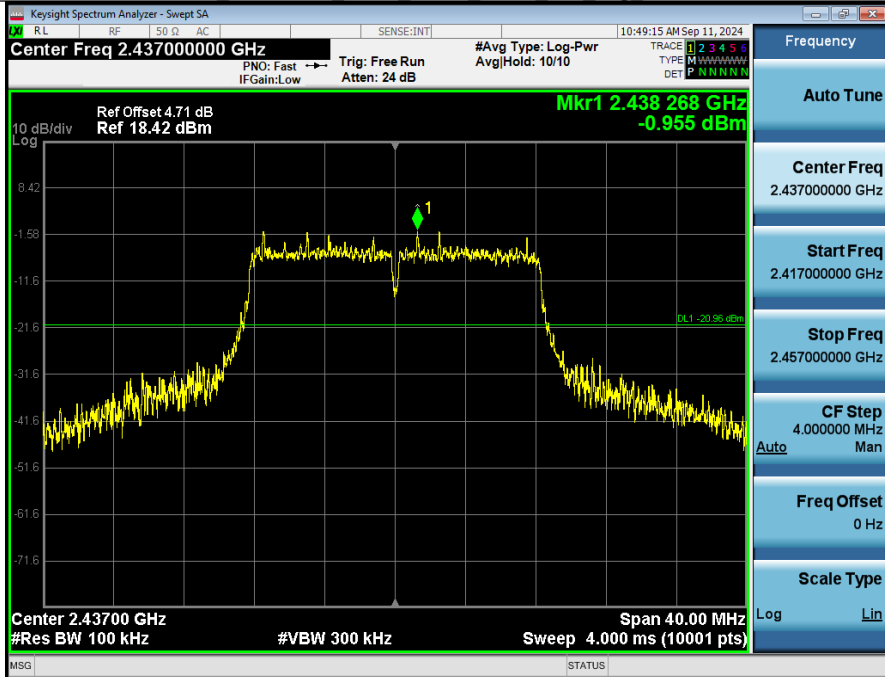
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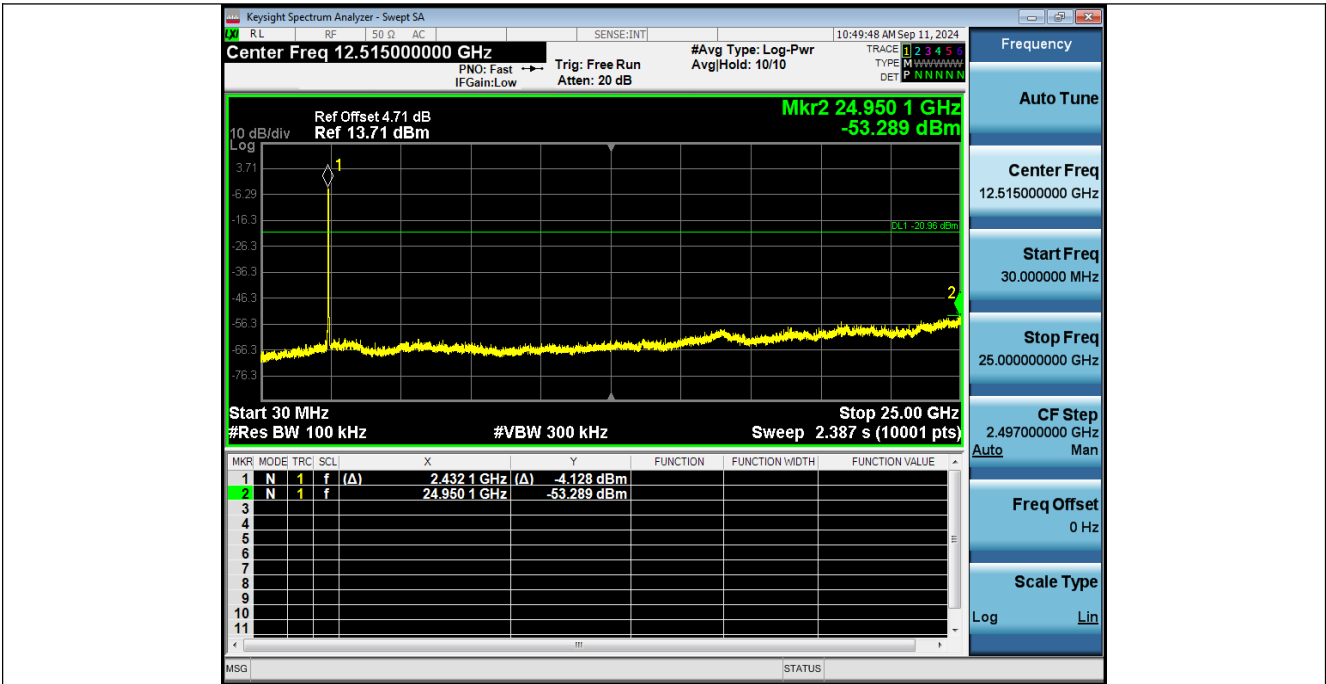
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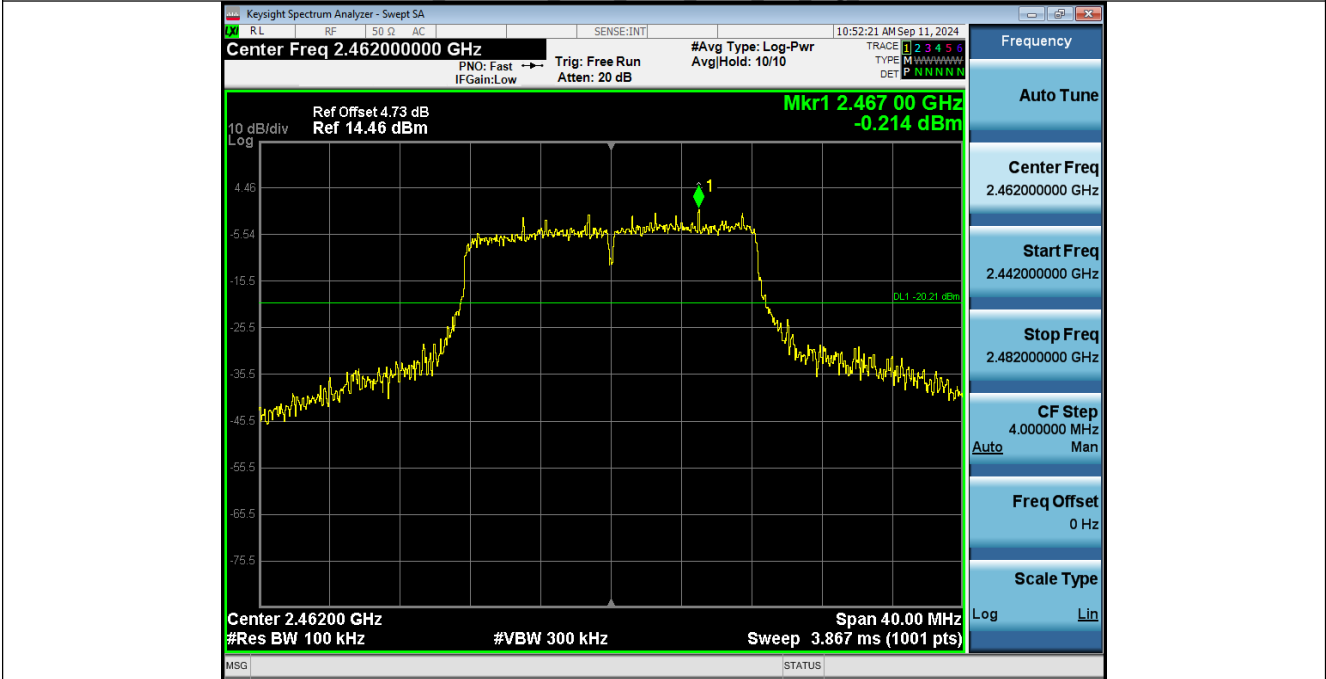
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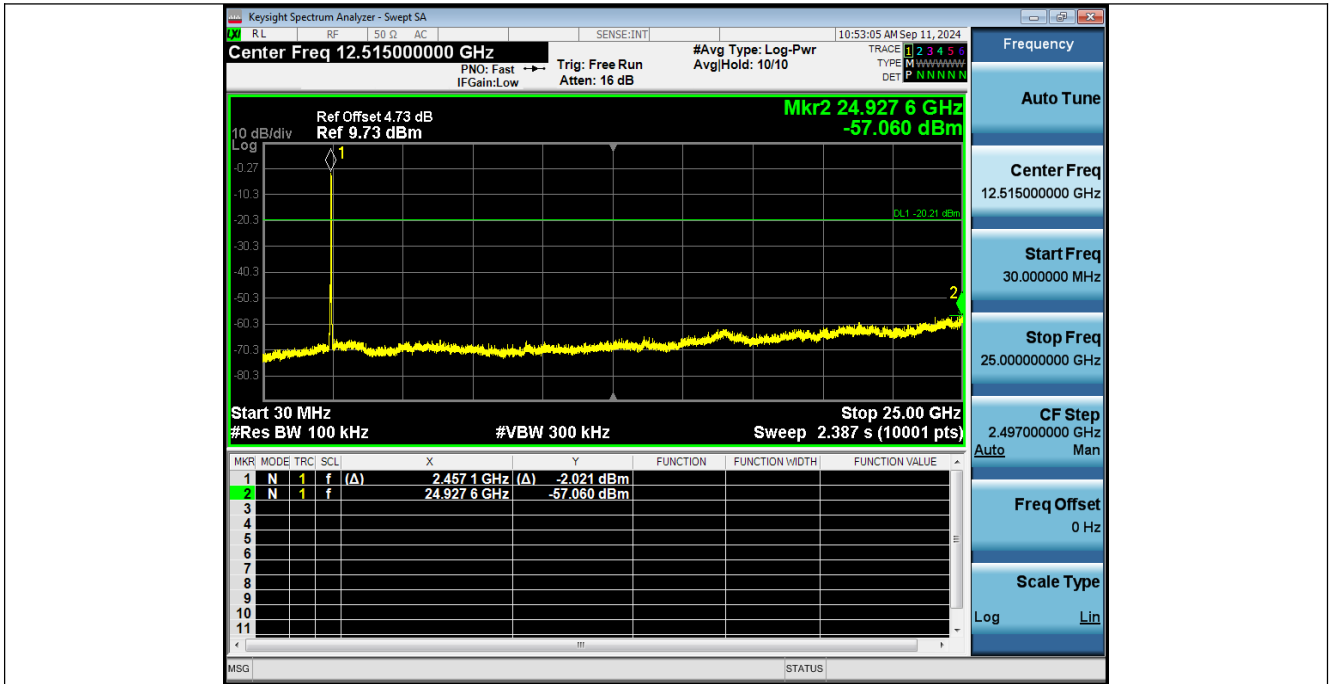
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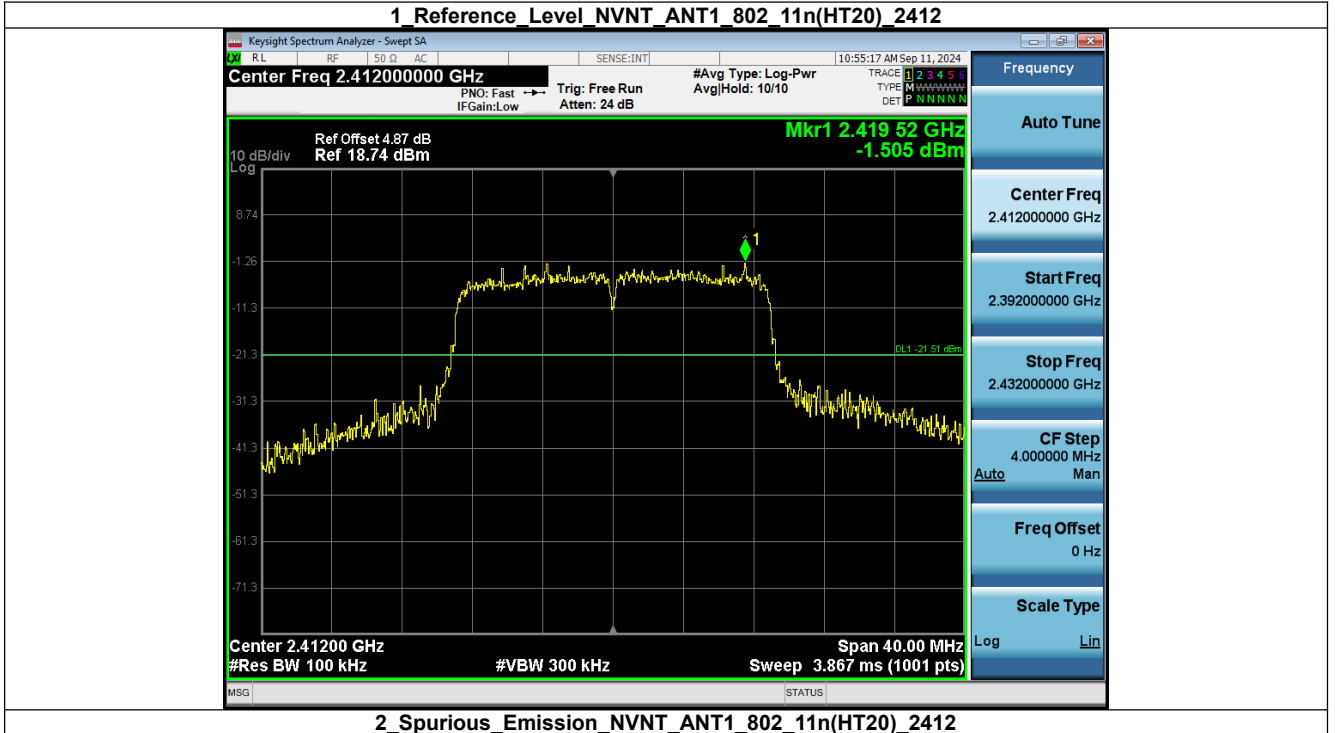
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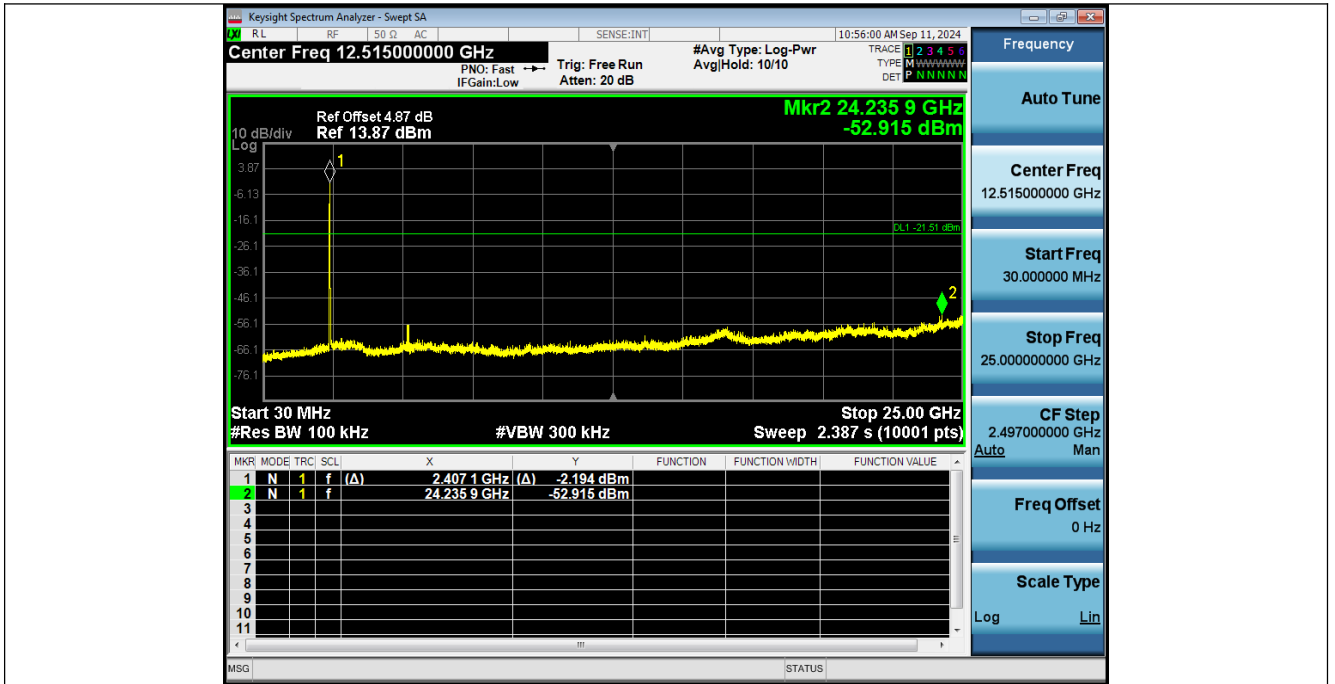
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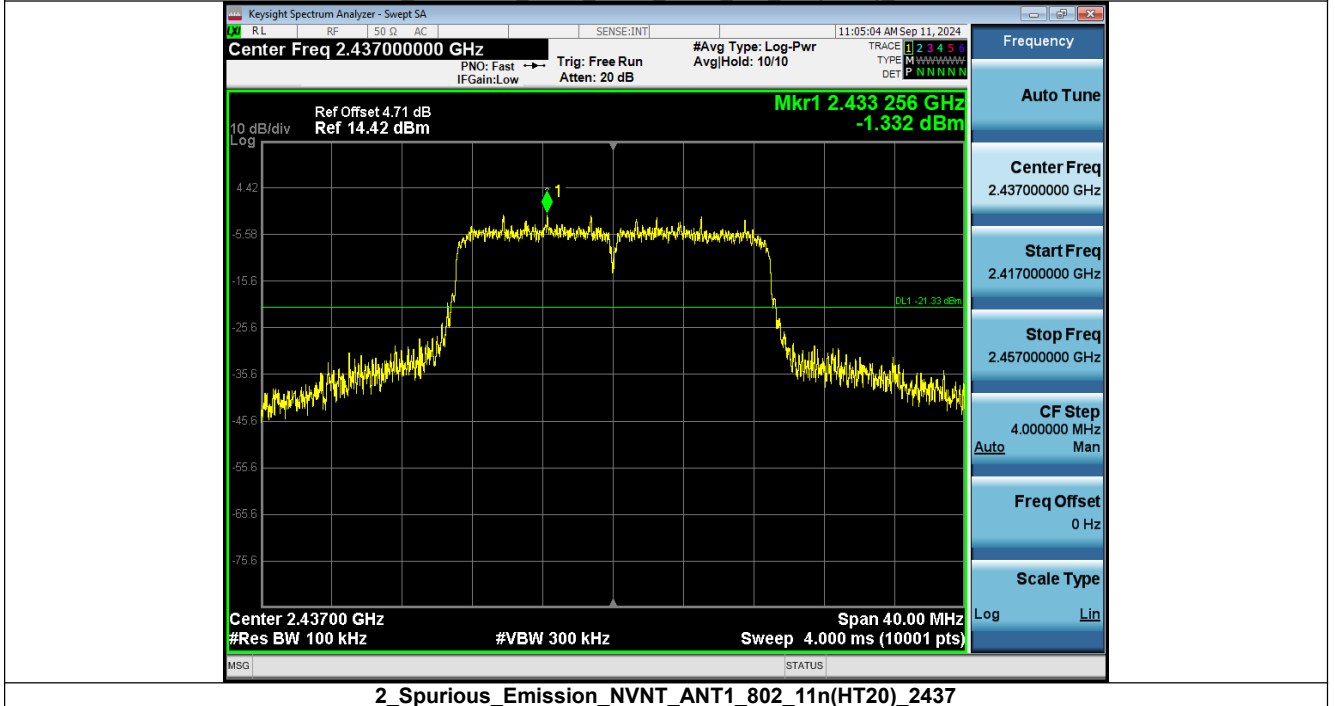
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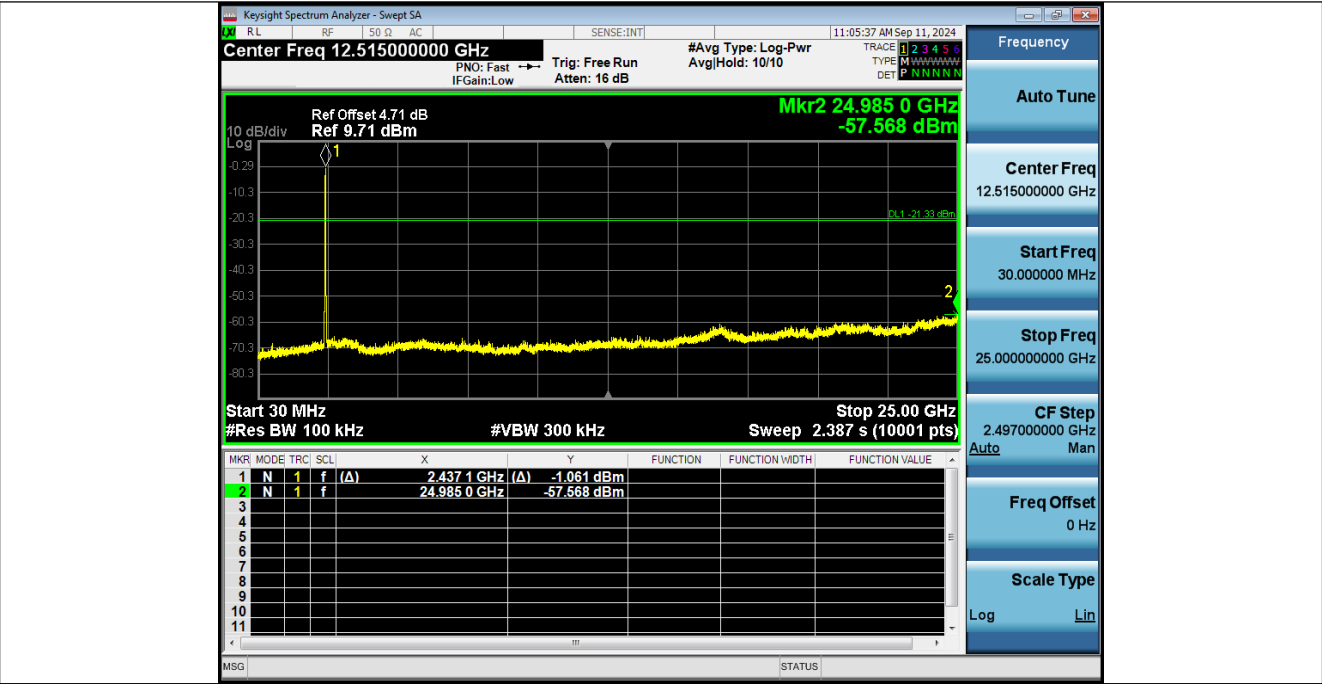
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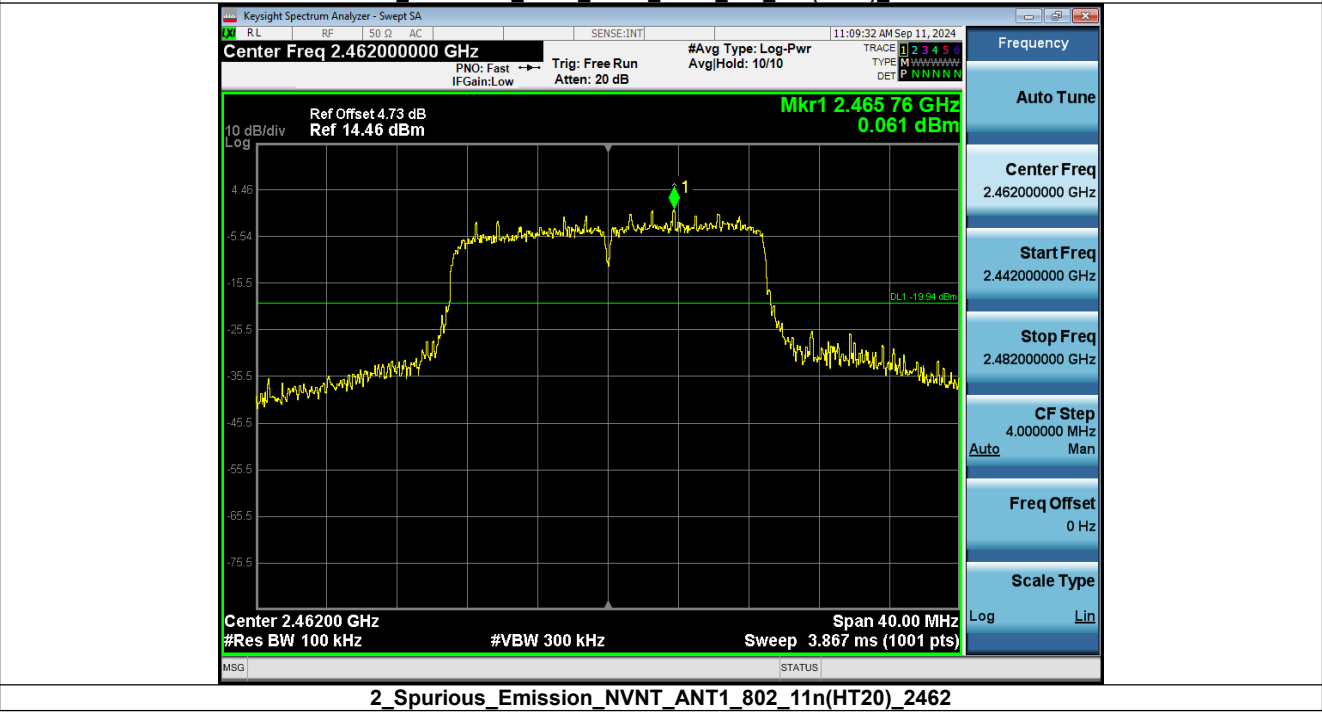
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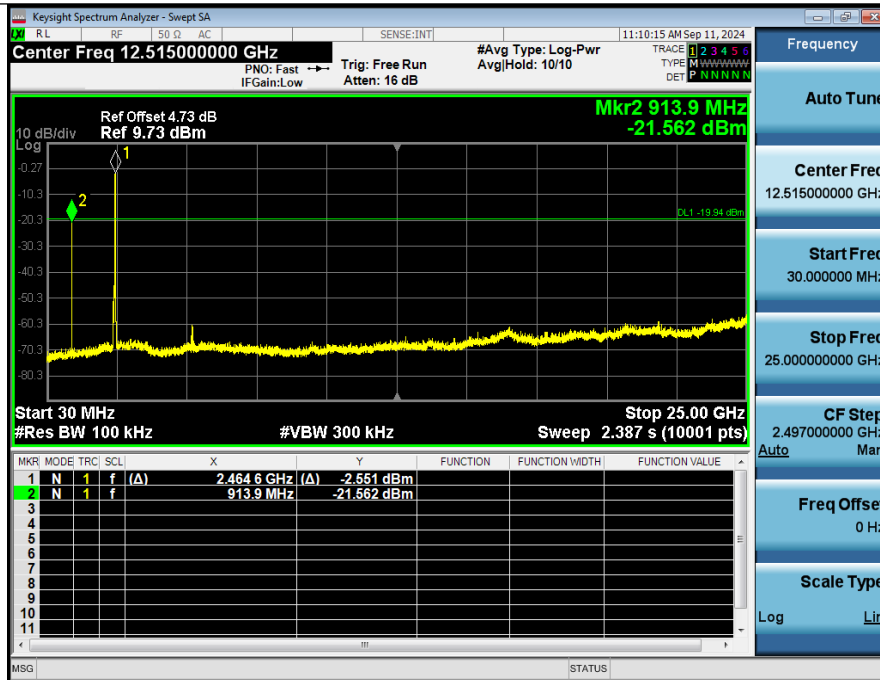
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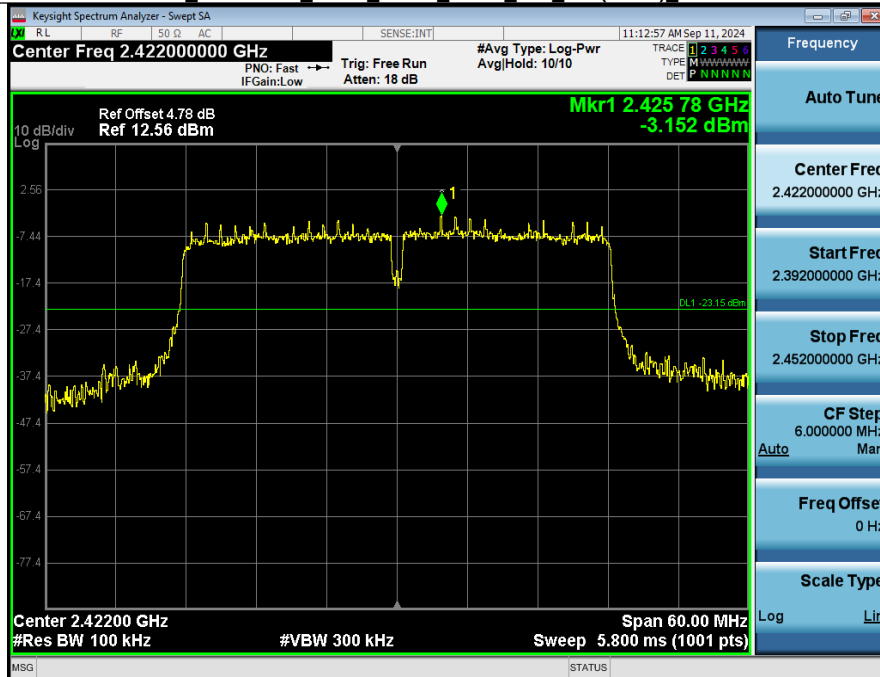
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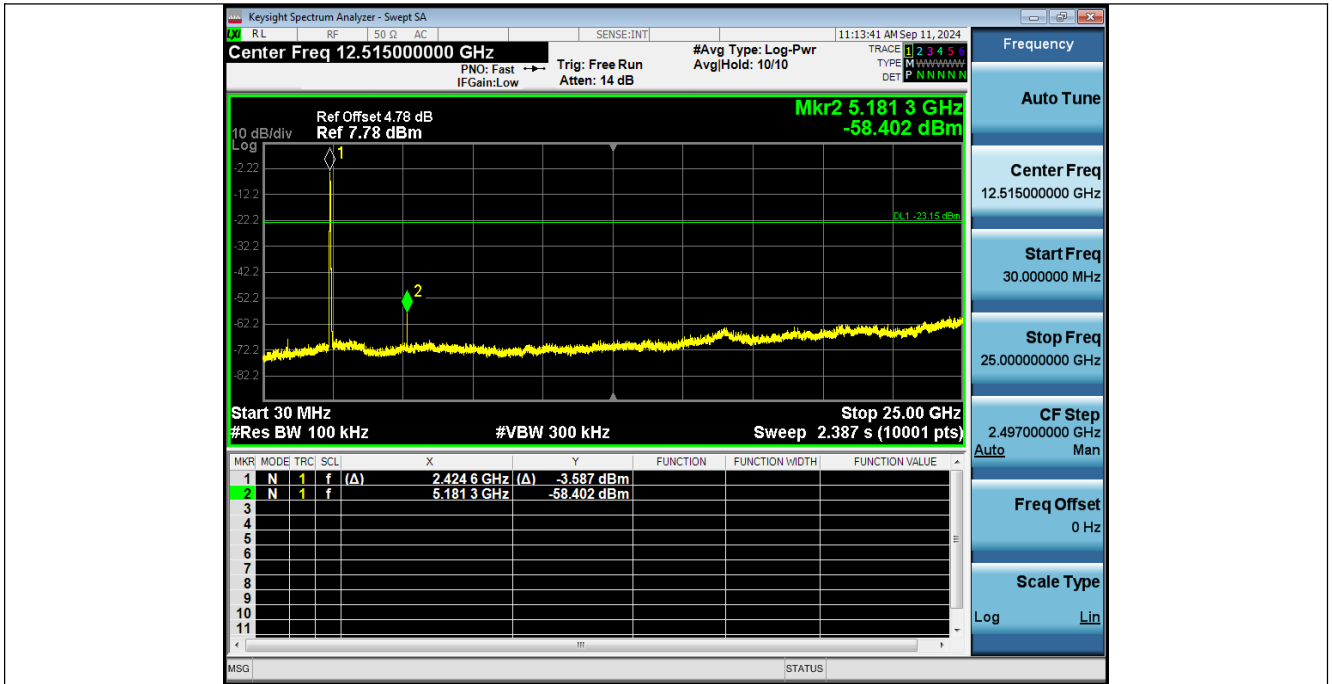
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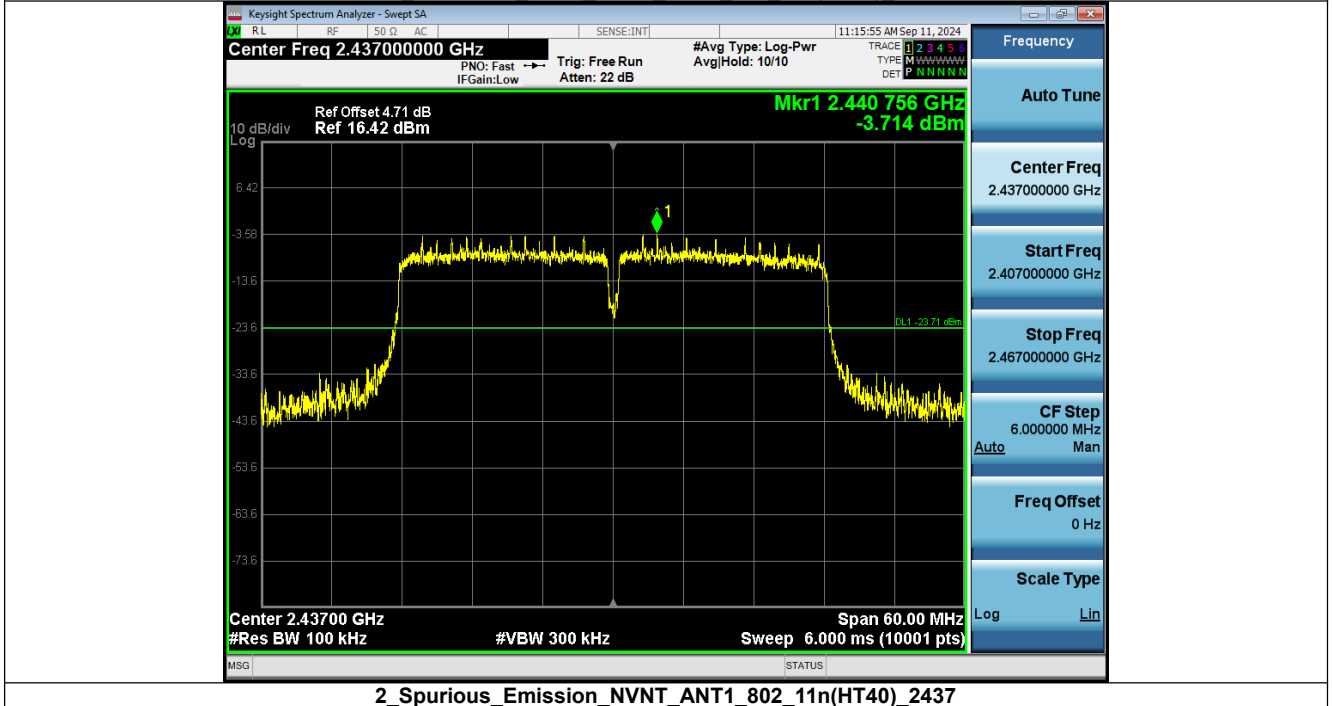
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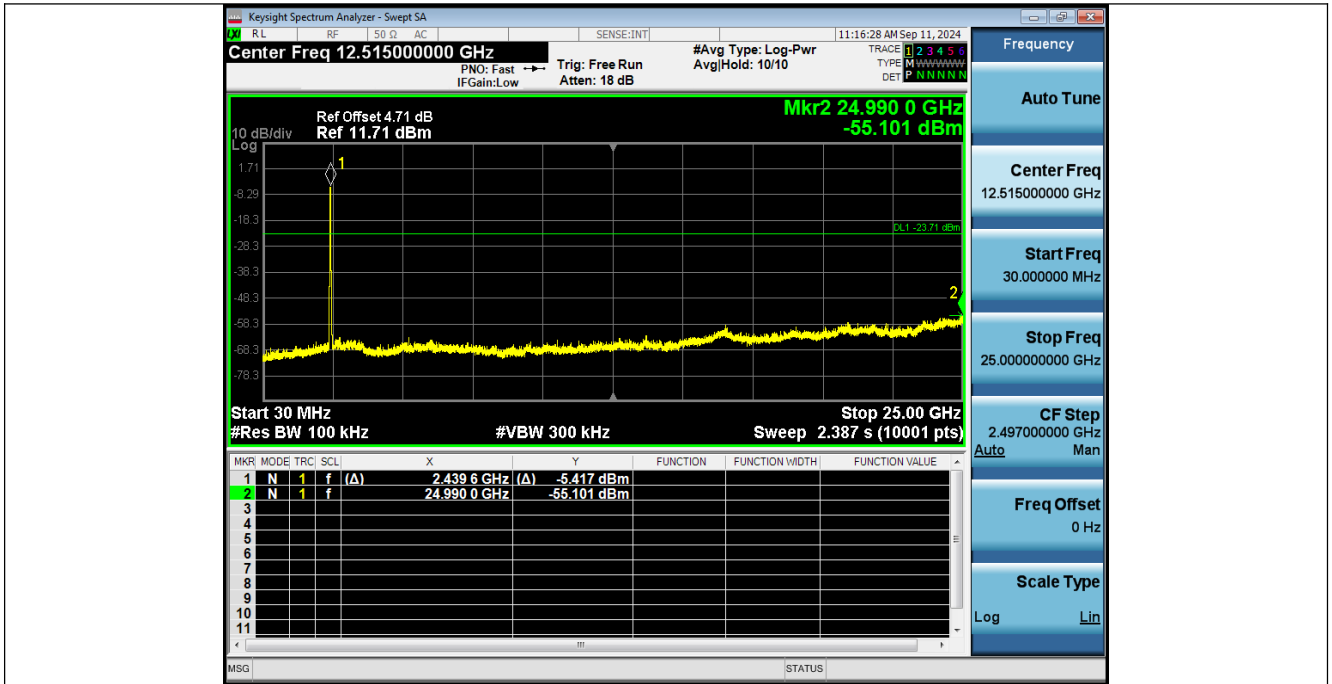
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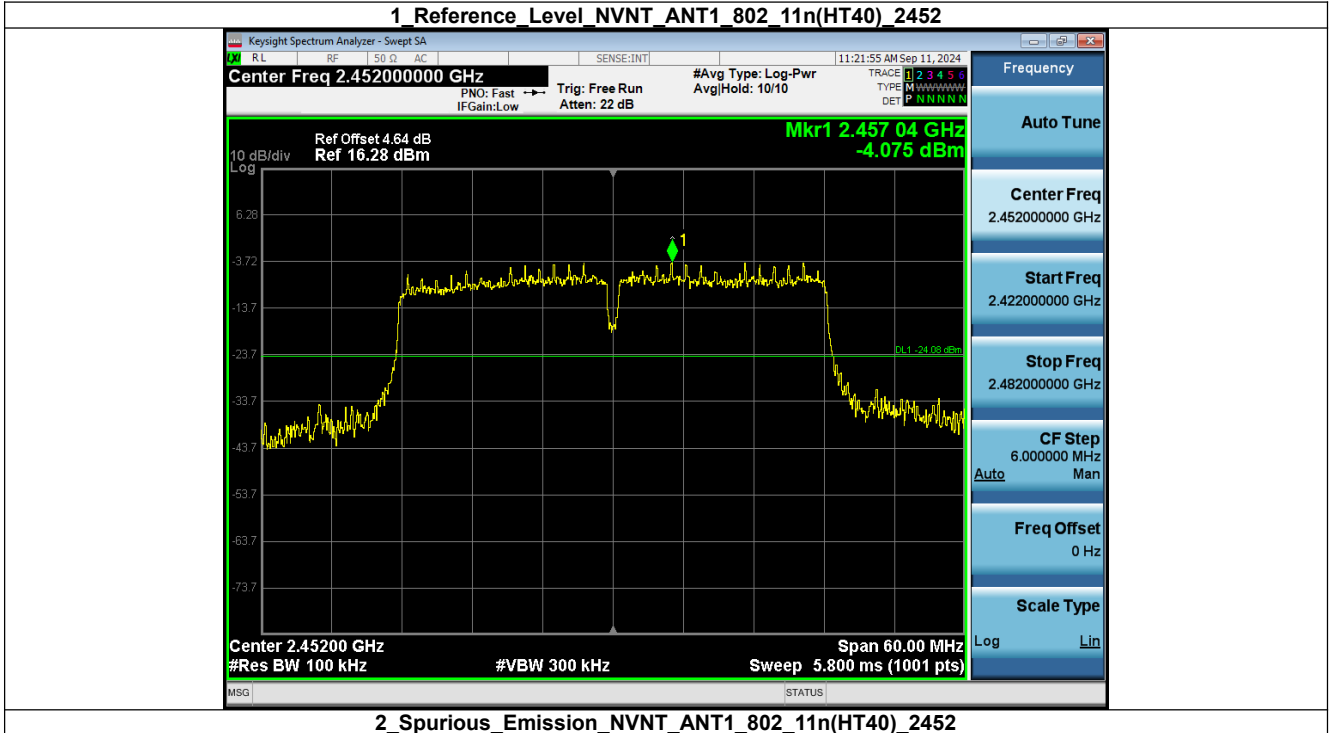
1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452



2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452

