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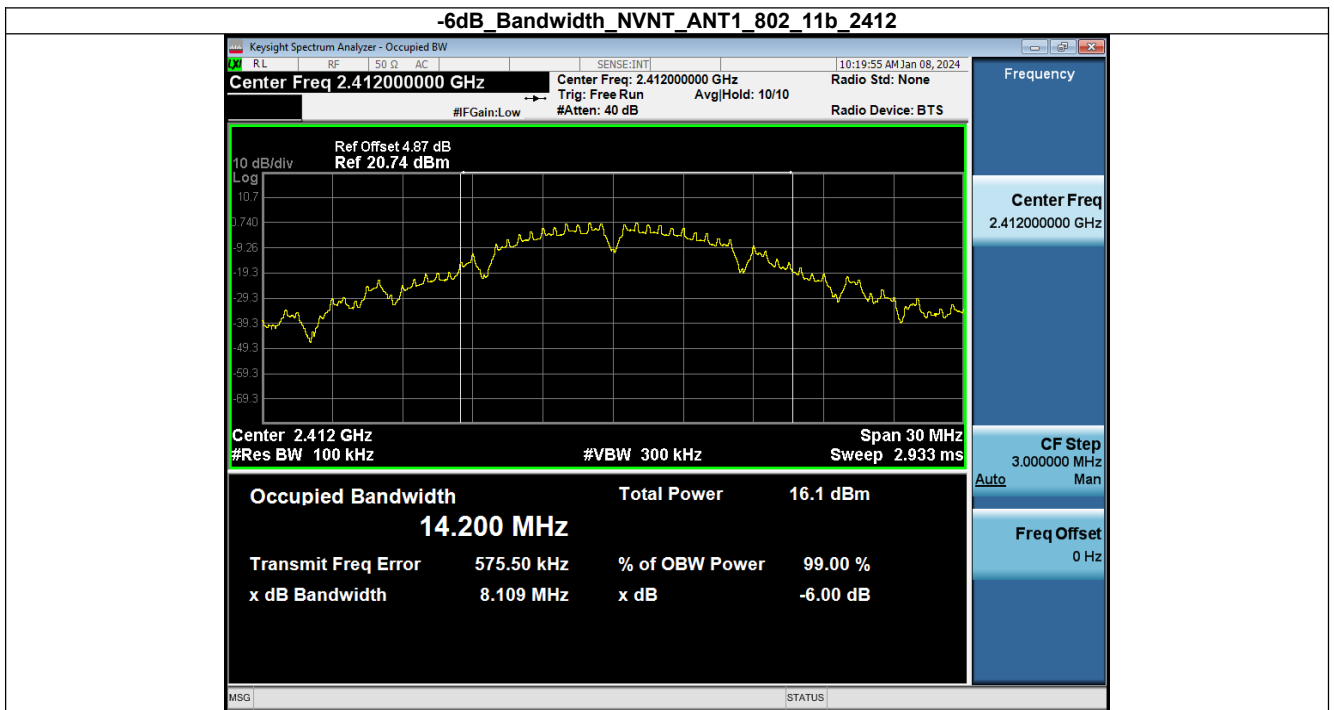
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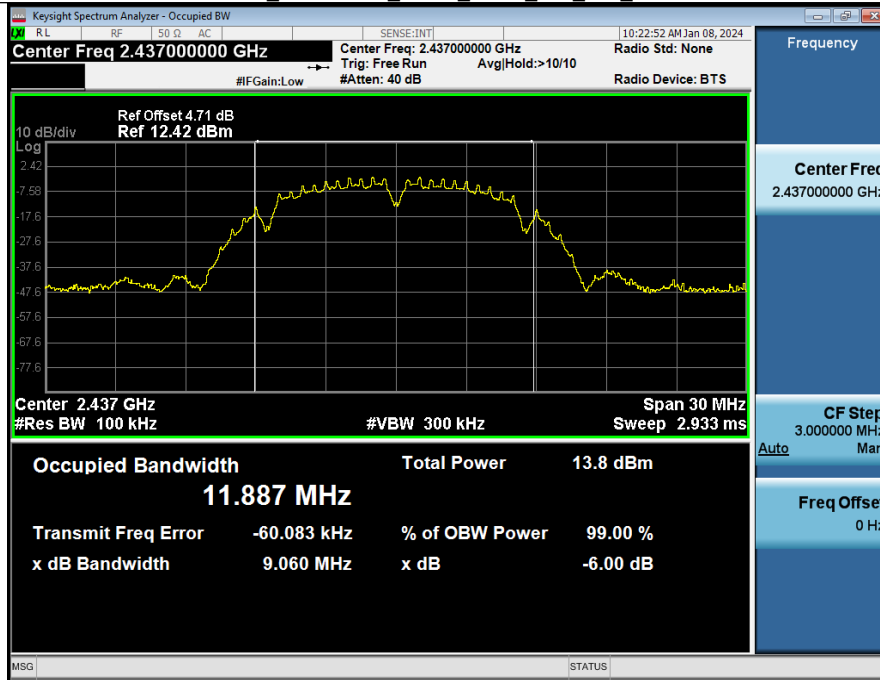
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

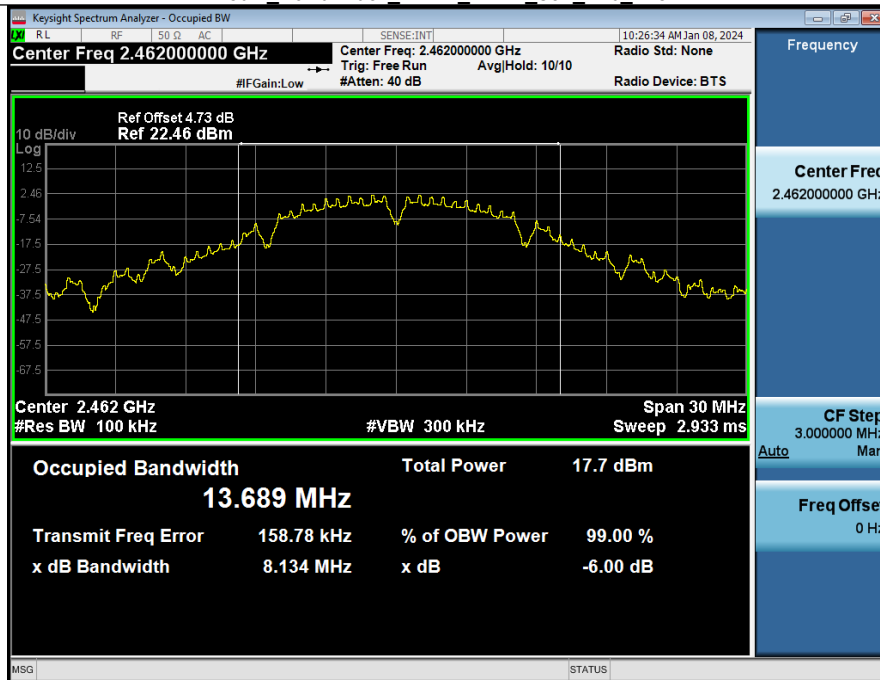
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.11	500	Pass
NVNT	ANT1	802.11b	2437.00	9.06	500	Pass
NVNT	ANT1	802.11b	2462.00	8.13	500	Pass
NVNT	ANT1	802.11g	2412.00	15.71	500	Pass
NVNT	ANT1	802.11g	2437.00	16.34	500	Pass
NVNT	ANT1	802.11g	2462.00	15.32	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	15.92	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.15	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.27	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.08	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.84	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.62	500	Pass



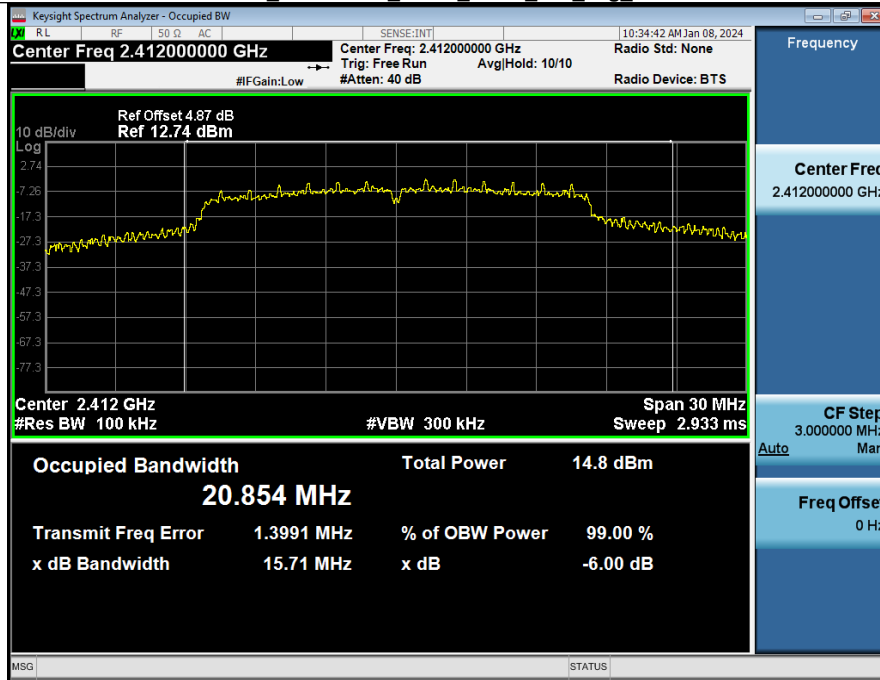
-6dB Bandwidth_NVNT_ANT1_802_11b_2437



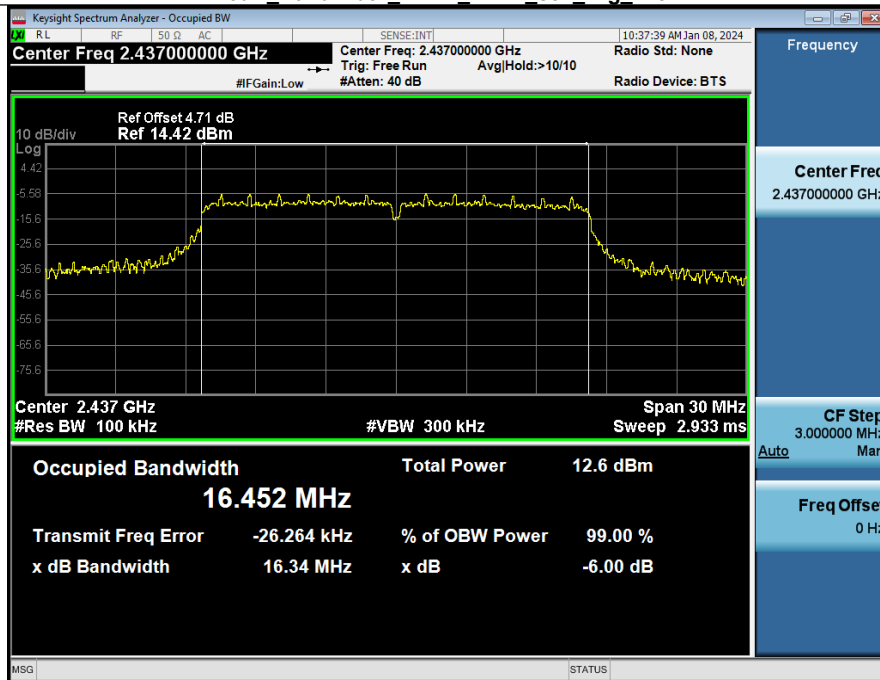
-6dB Bandwidth_NVNT_ANT1_802_11b_2462



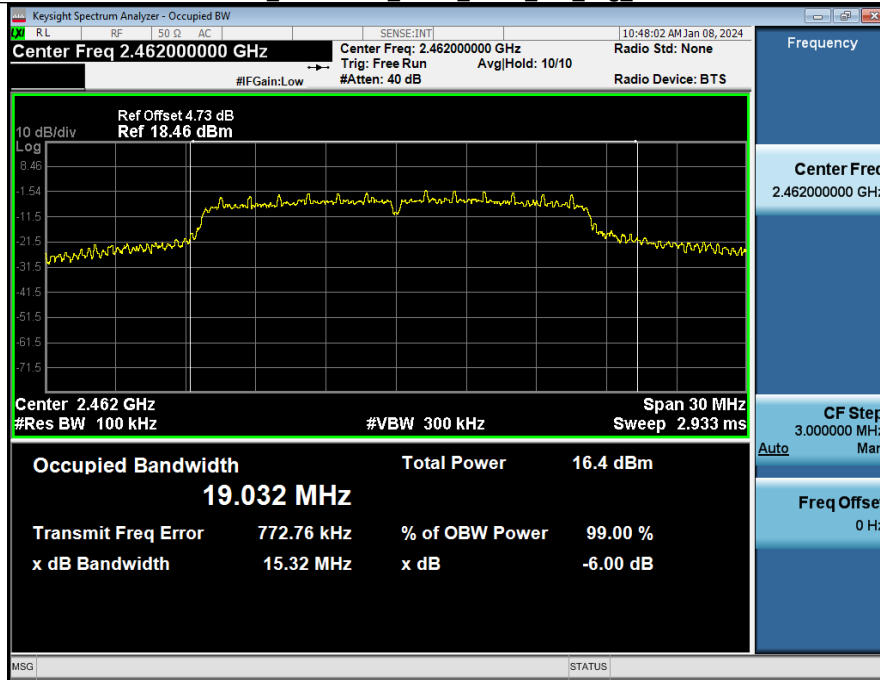
-6dB Bandwidth_NVNT_ANT1_802_11g_2412



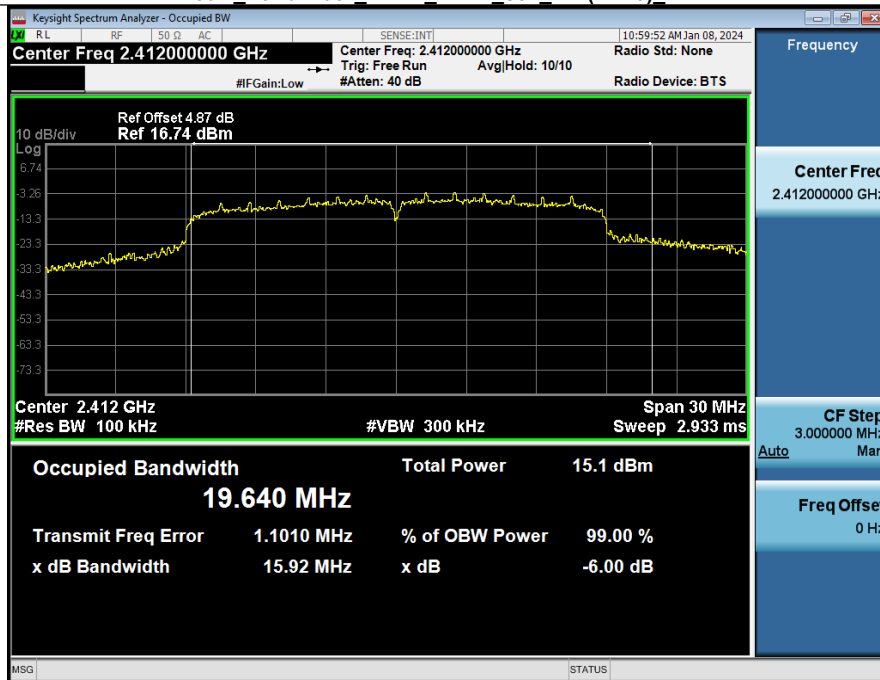
-6dB Bandwidth_NVNT_ANT1_802_11g_2437



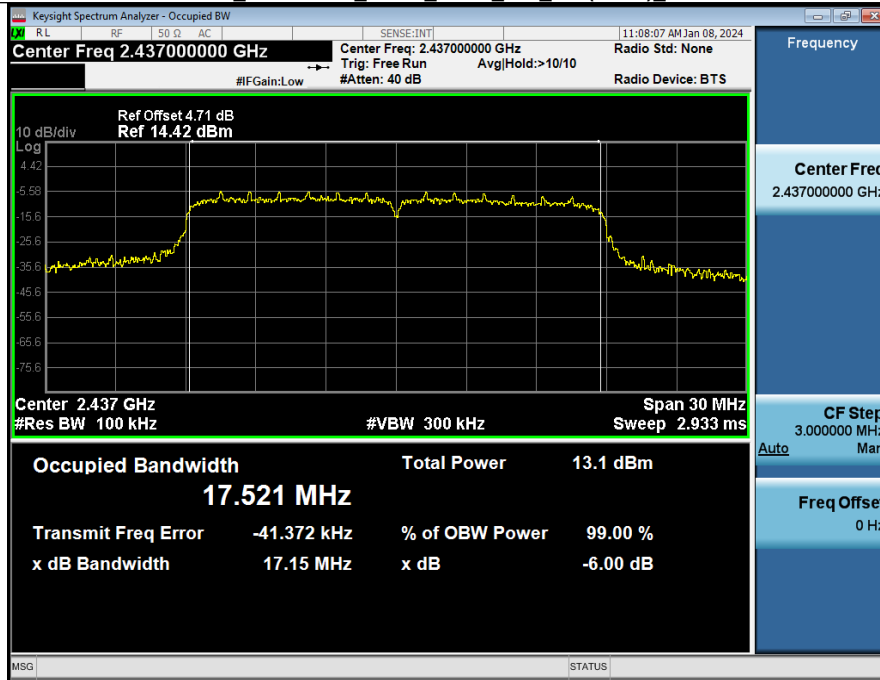
-6dB Bandwidth_NVNT_ANT1_802_11g_2462



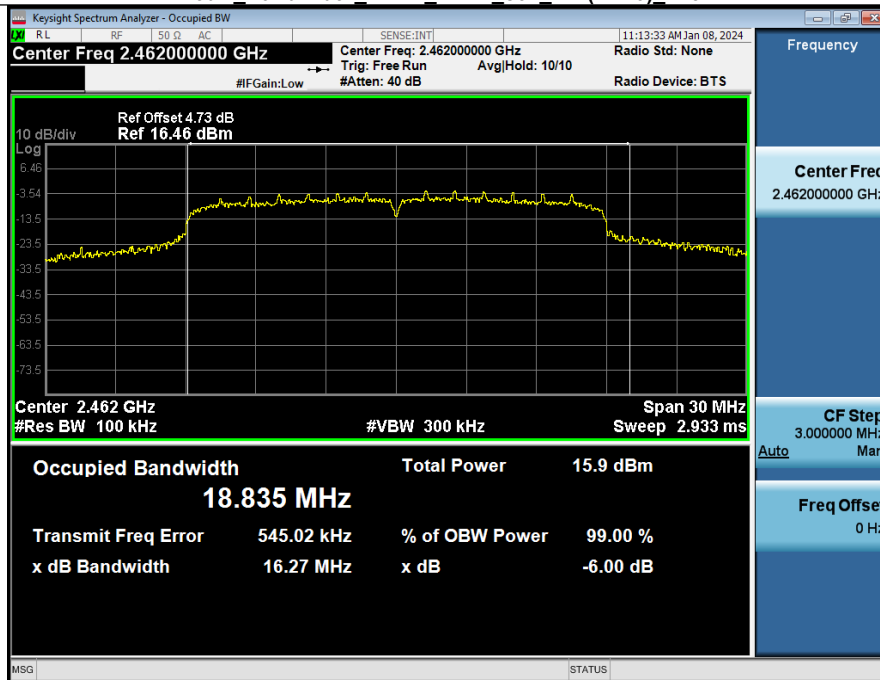
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



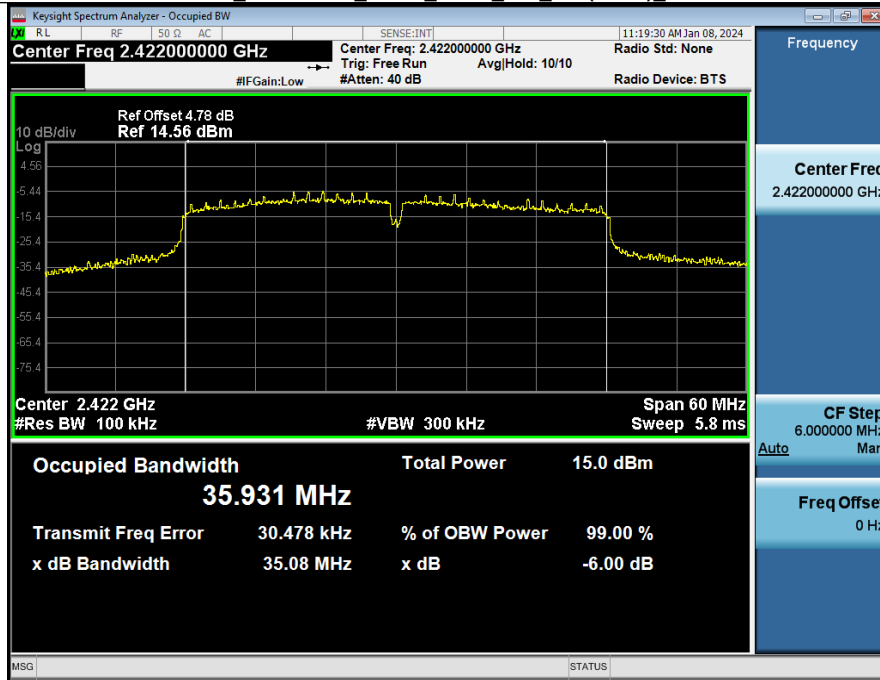
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



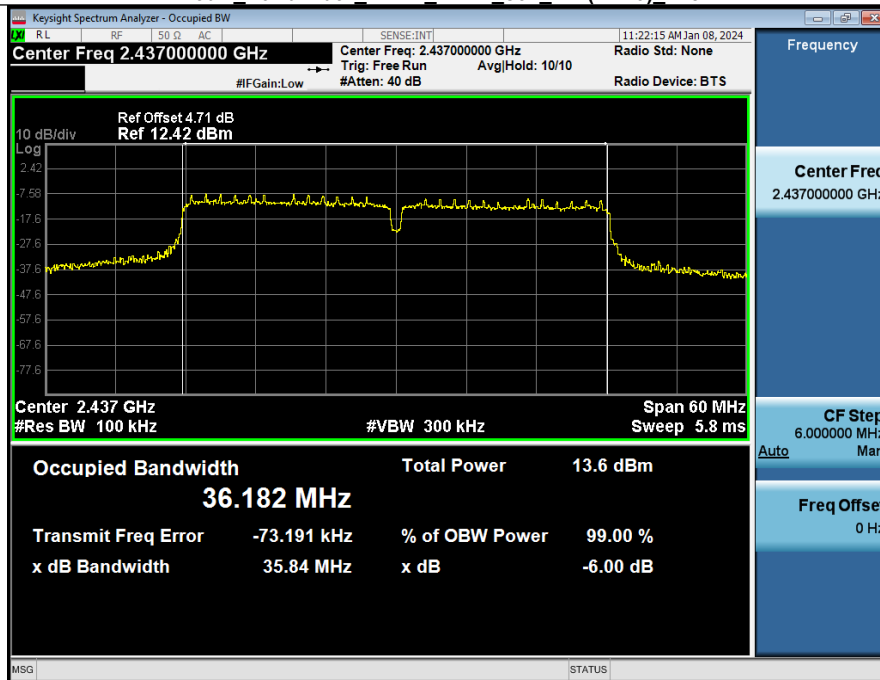
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



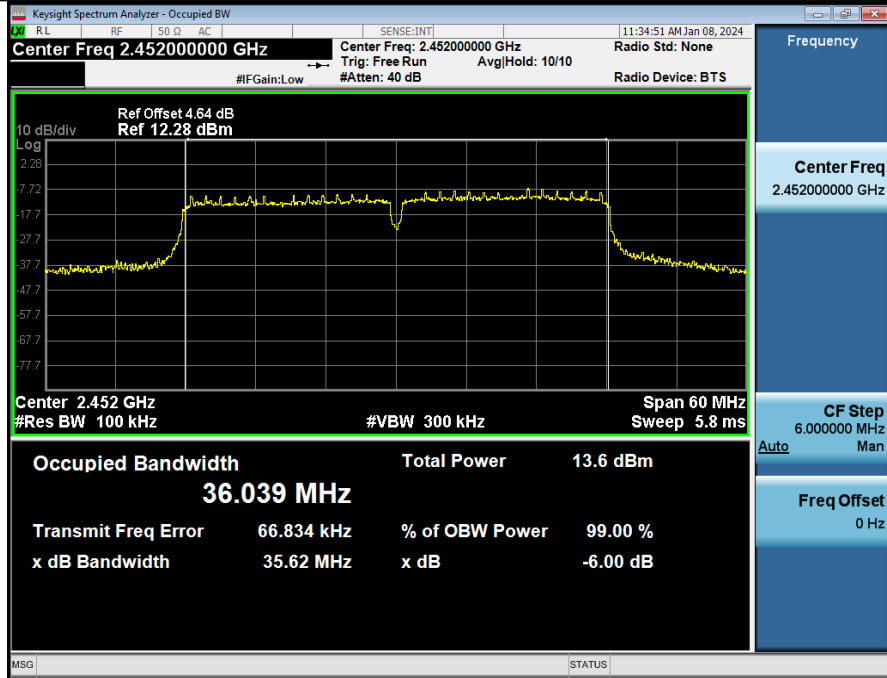
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

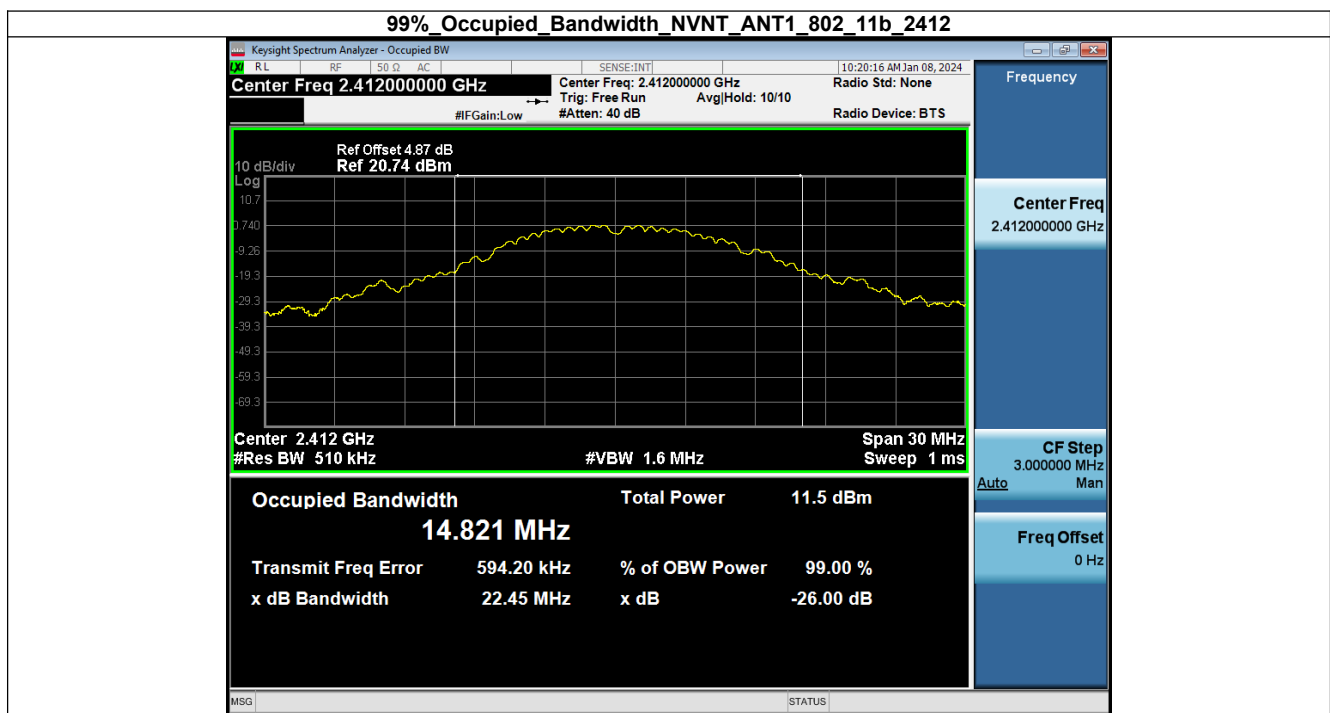


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

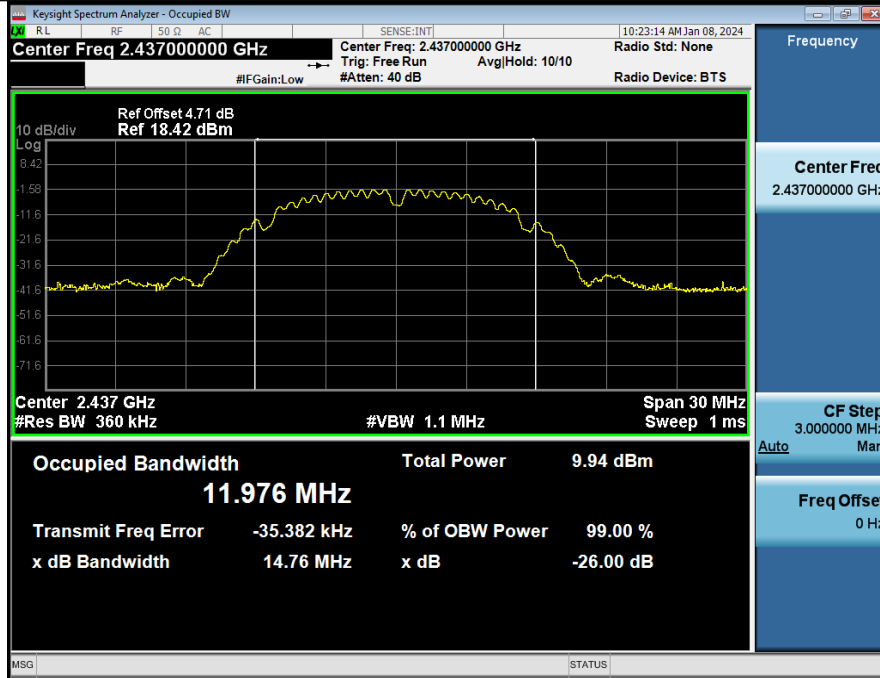


2. 99% Occupied Bandwidth

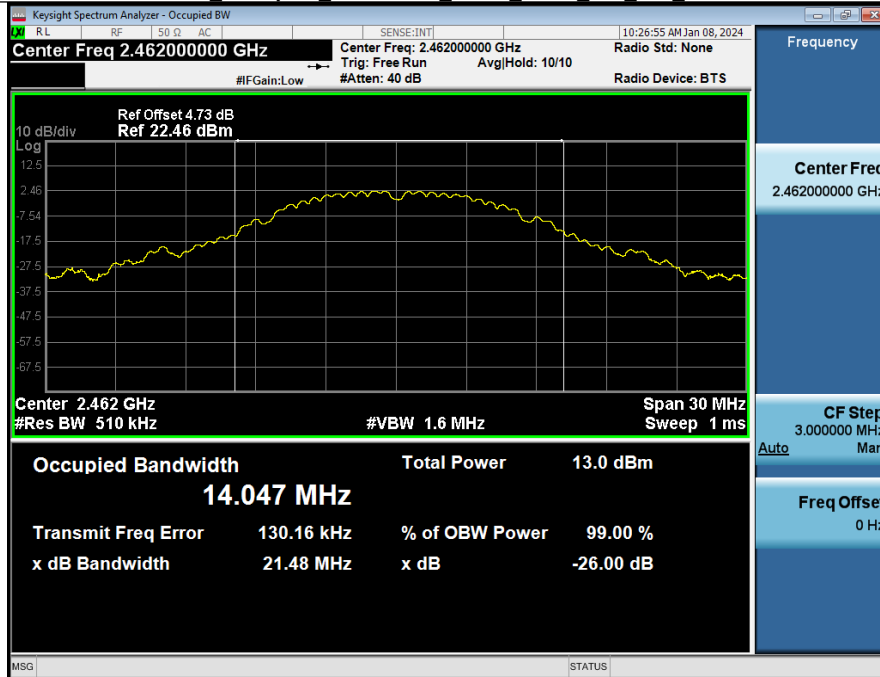
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.821
NVNT	ANT1	802.11b	2437.00	11.976
NVNT	ANT1	802.11b	2462.00	14.047
NVNT	ANT1	802.11g	2412.00	22.027
NVNT	ANT1	802.11g	2437.00	17.287
NVNT	ANT1	802.11g	2462.00	20.657
NVNT	ANT1	802.11n(HT20)	2412.00	20.448
NVNT	ANT1	802.11n(HT20)	2437.00	17.888
NVNT	ANT1	802.11n(HT20)	2462.00	19.759
NVNT	ANT1	802.11n(HT40)	2422.00	36.417
NVNT	ANT1	802.11n(HT40)	2437.00	37.168
NVNT	ANT1	802.11n(HT40)	2452.00	36.748



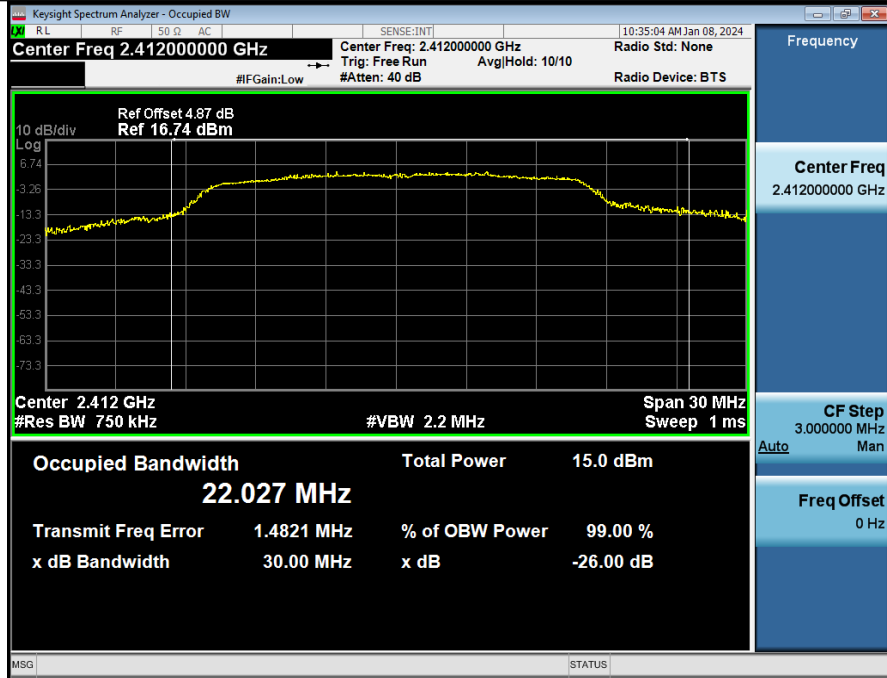
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



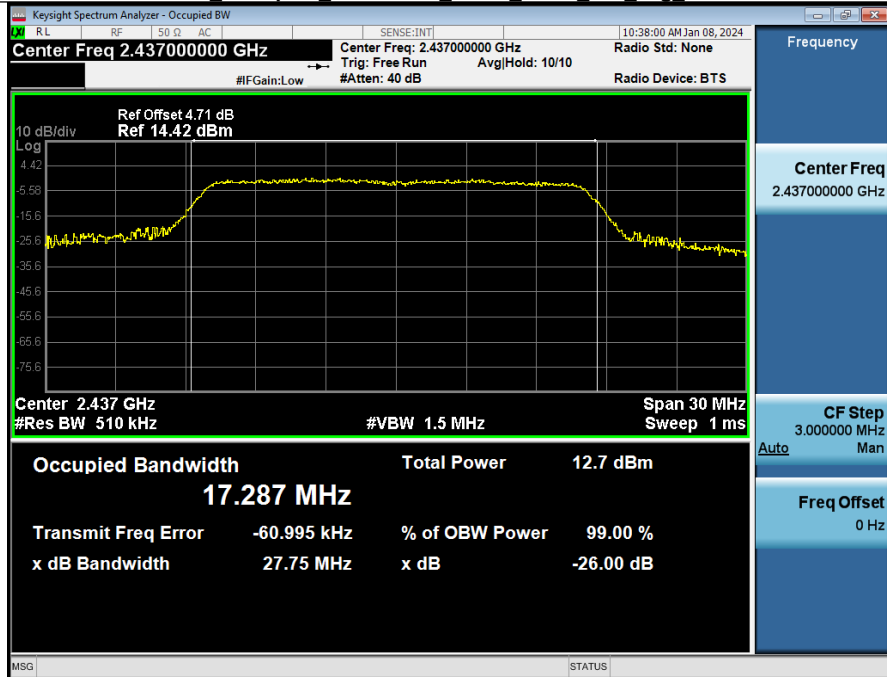
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



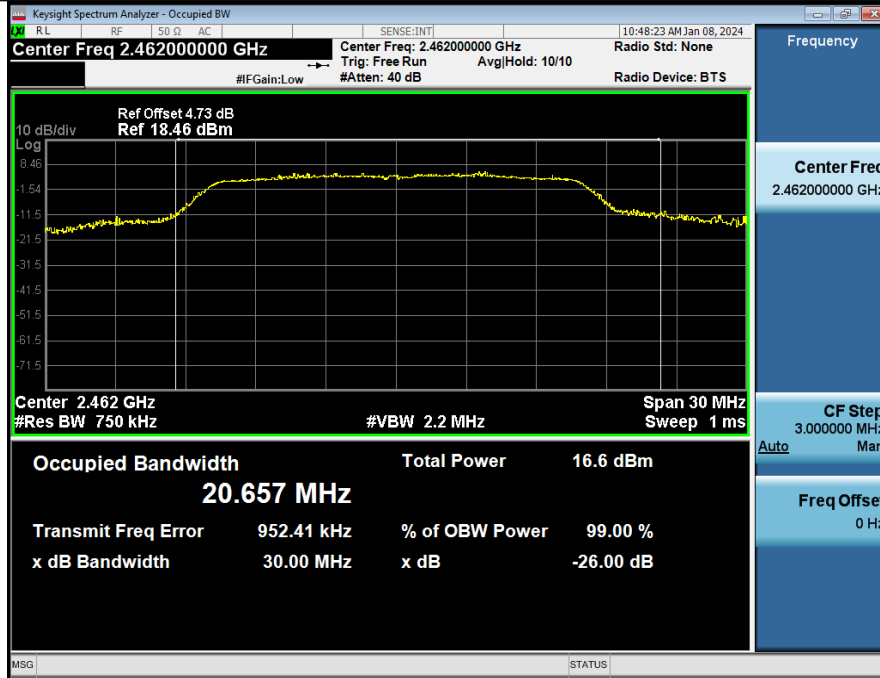
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



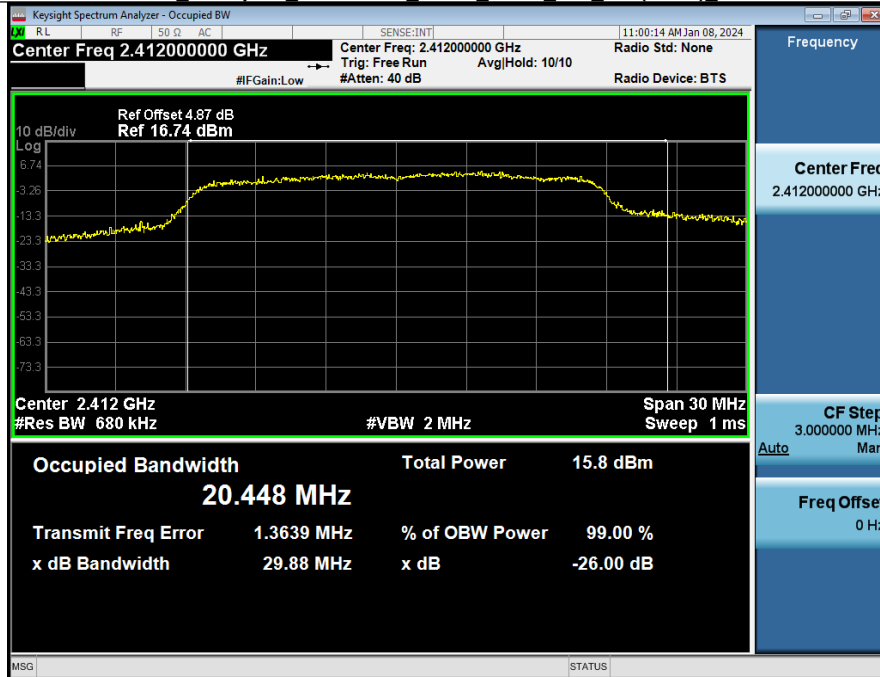
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



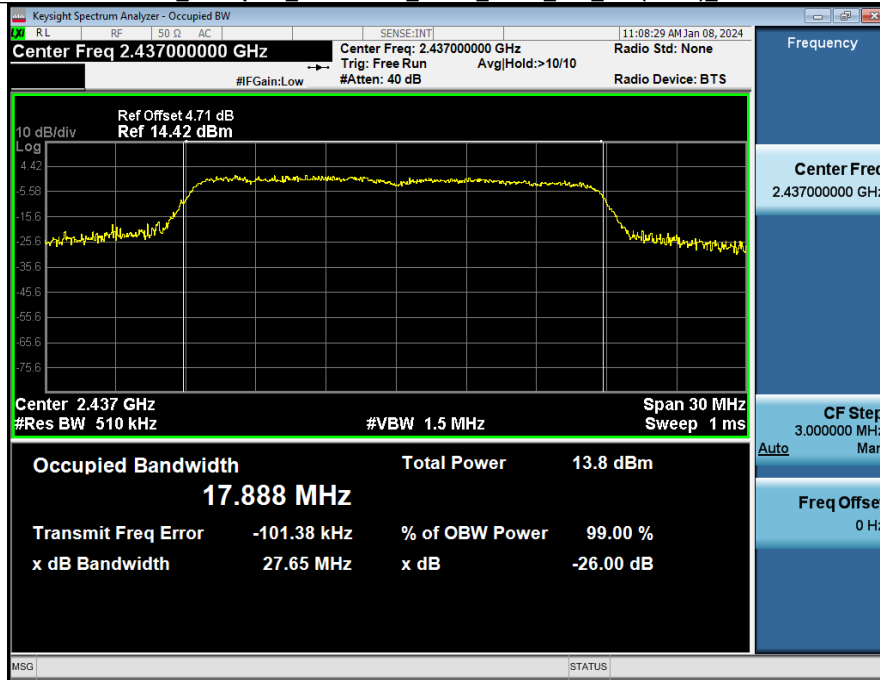
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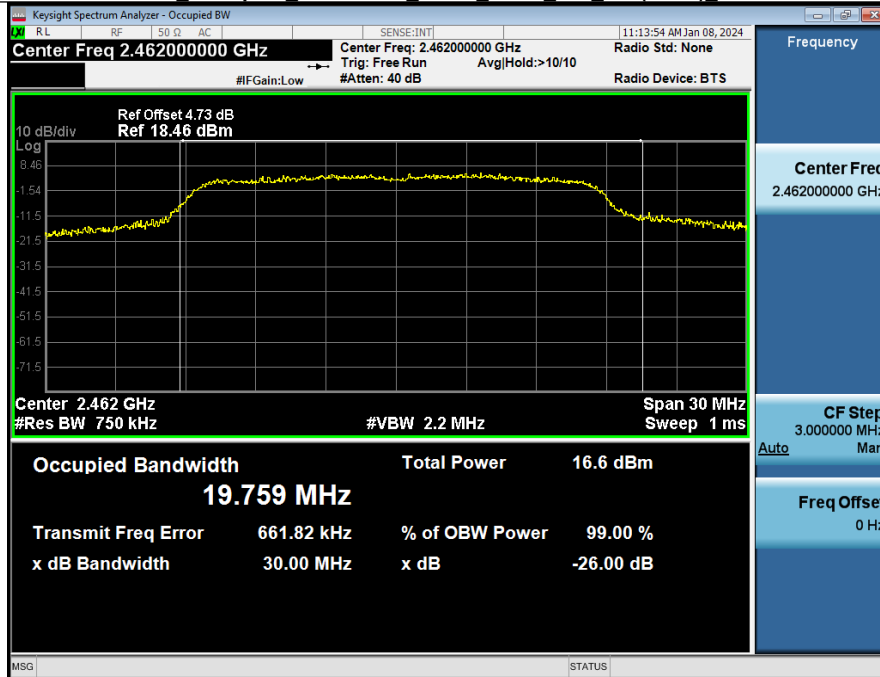
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20) 2412



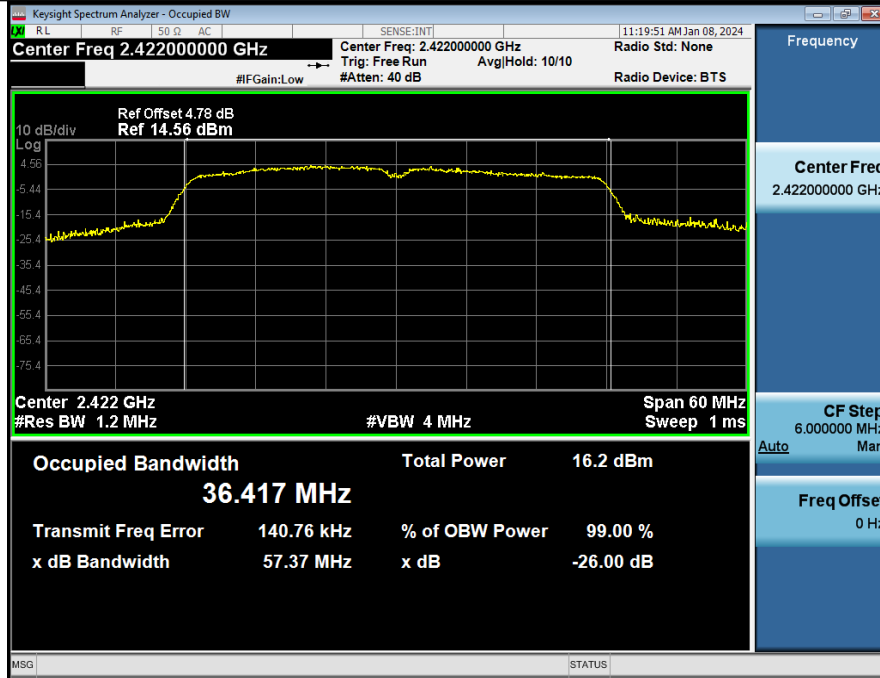
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



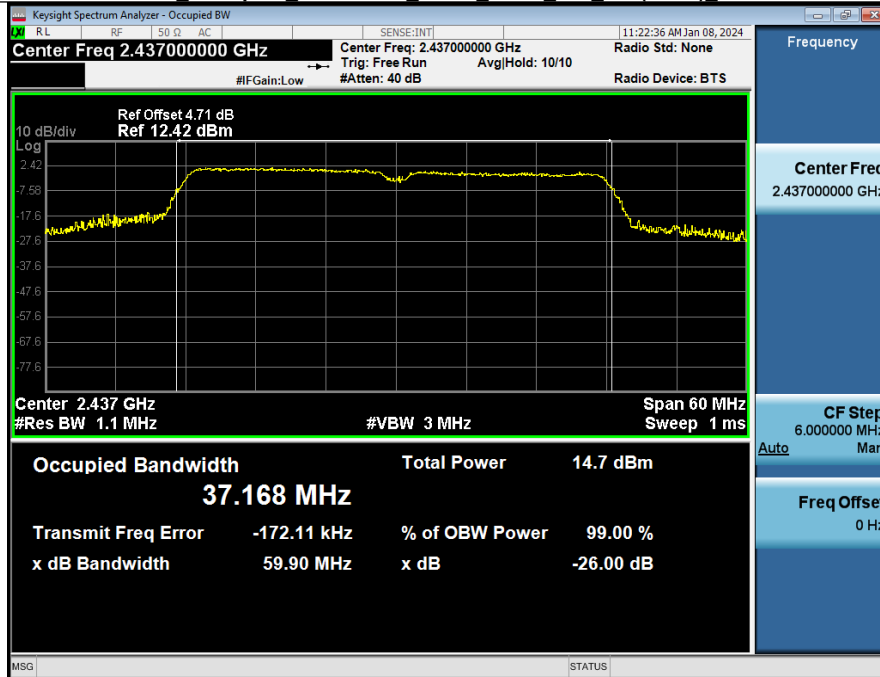
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462

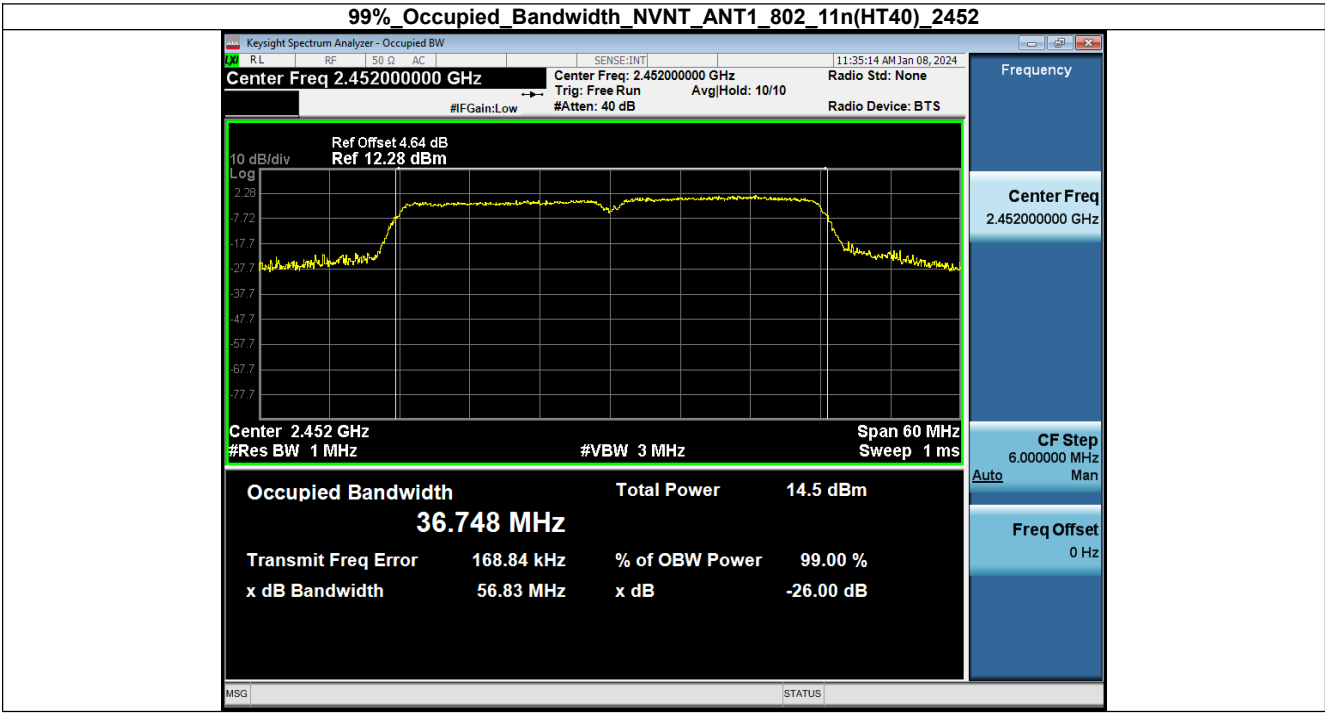


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



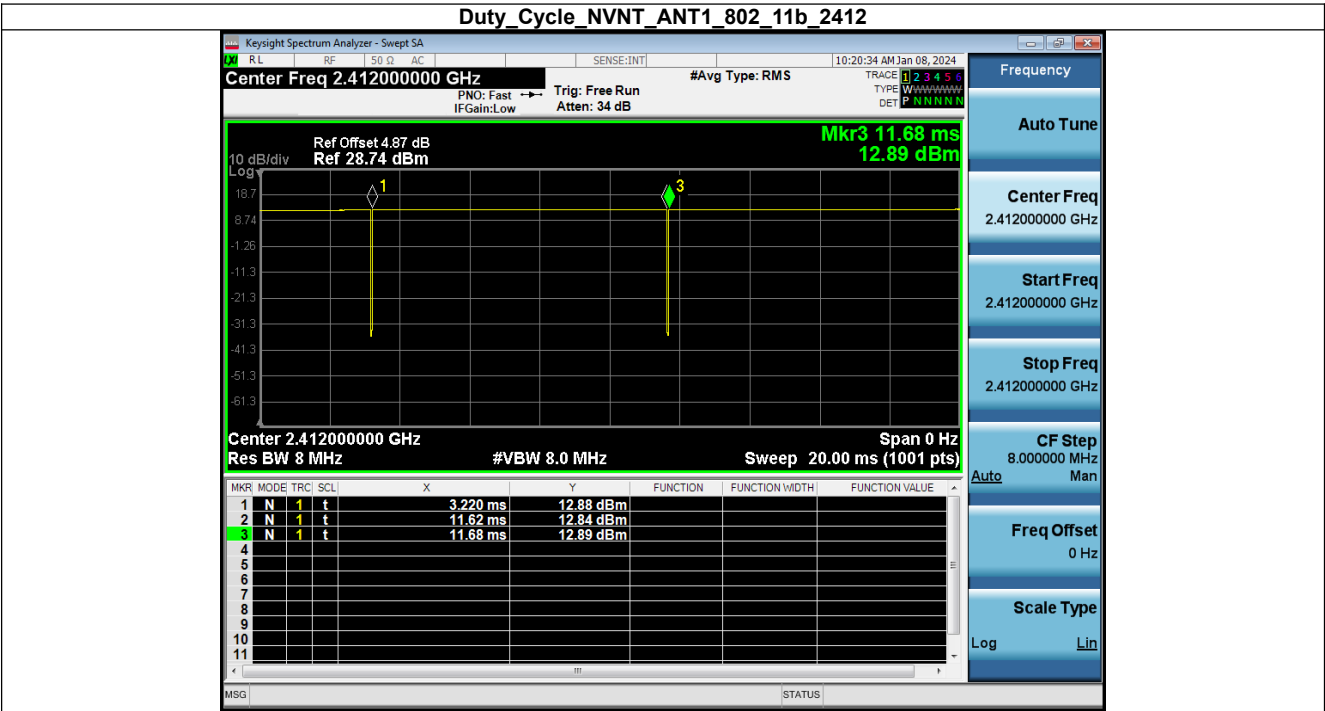
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437



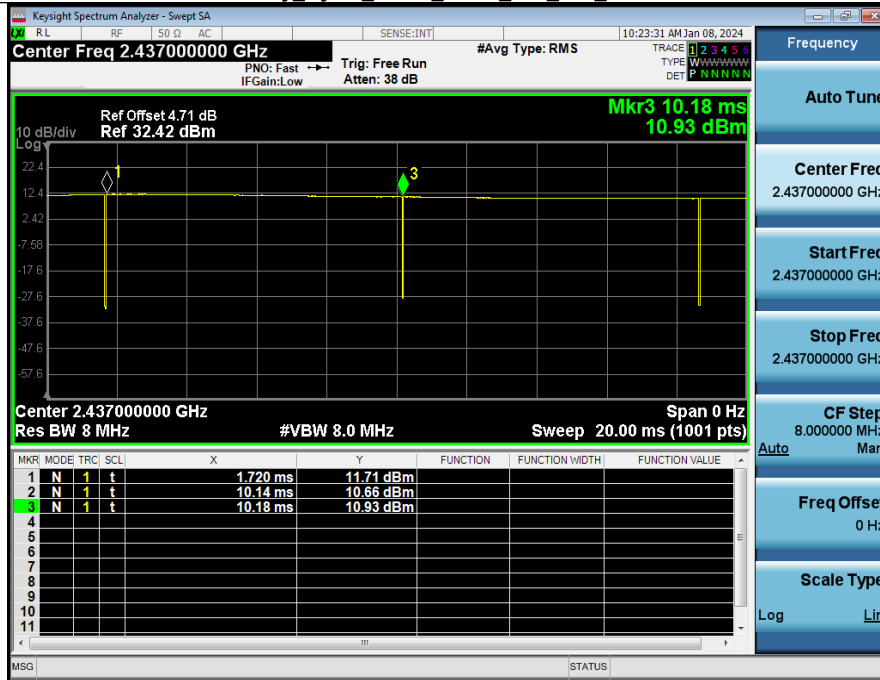


3. Duty Cycle

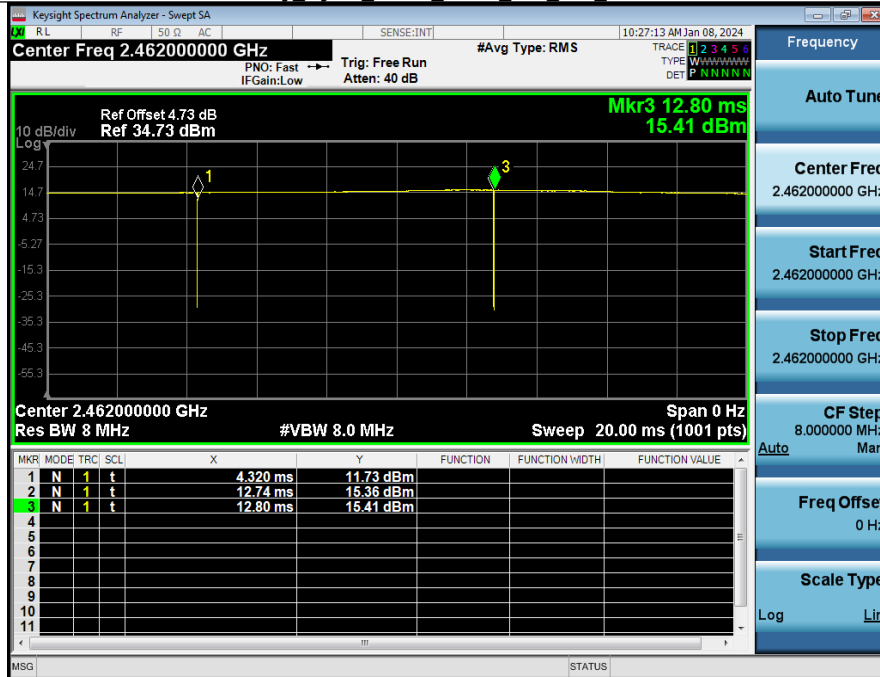
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	98.61	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	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



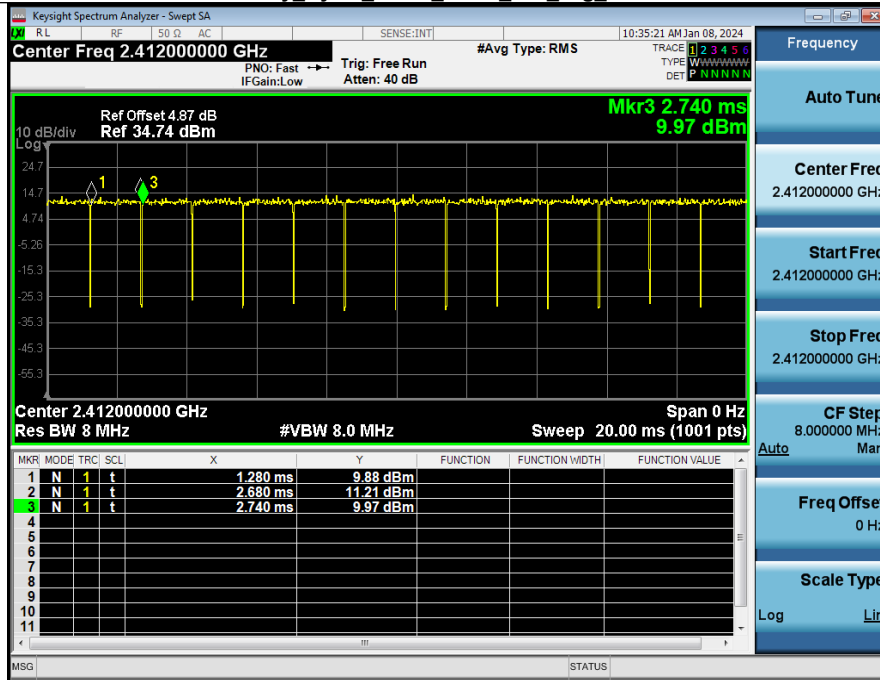
Duty Cycle NVNT_ANT1_802_11b_2437



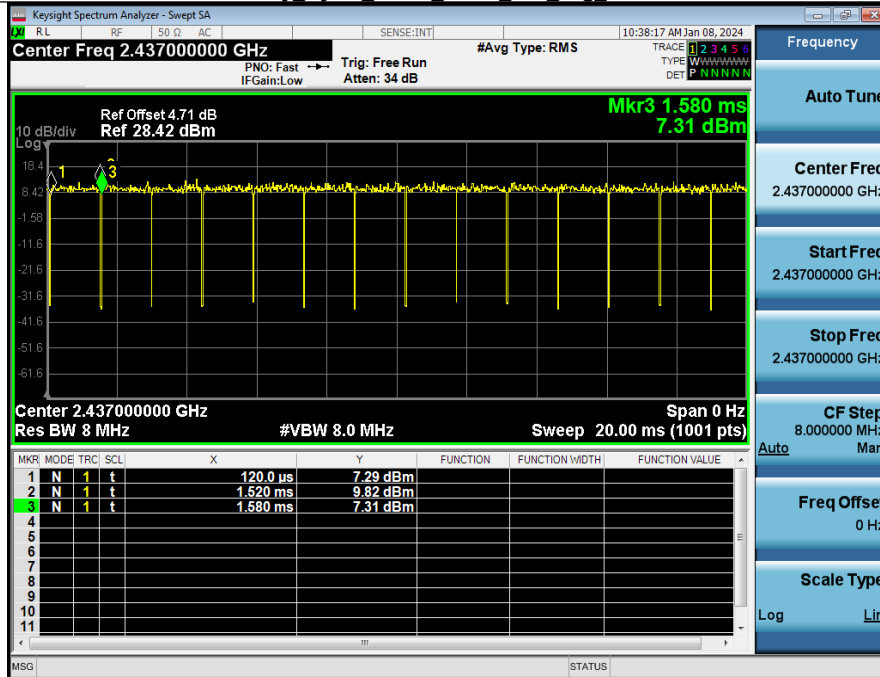
Duty Cycle NVNT_ANT1_802_11b_2462



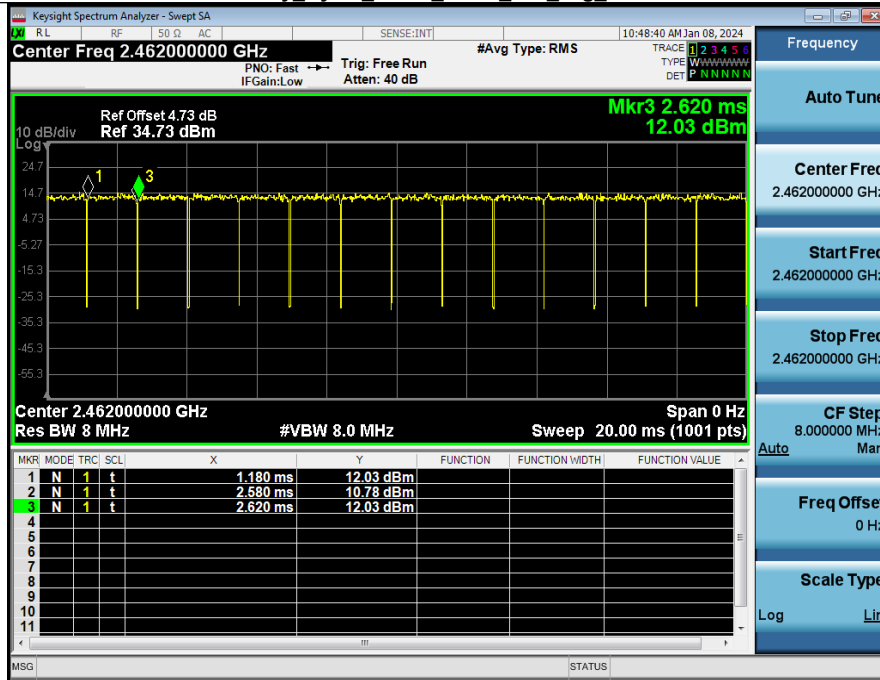
Duty Cycle NVNT ANT1_802_11g_2412



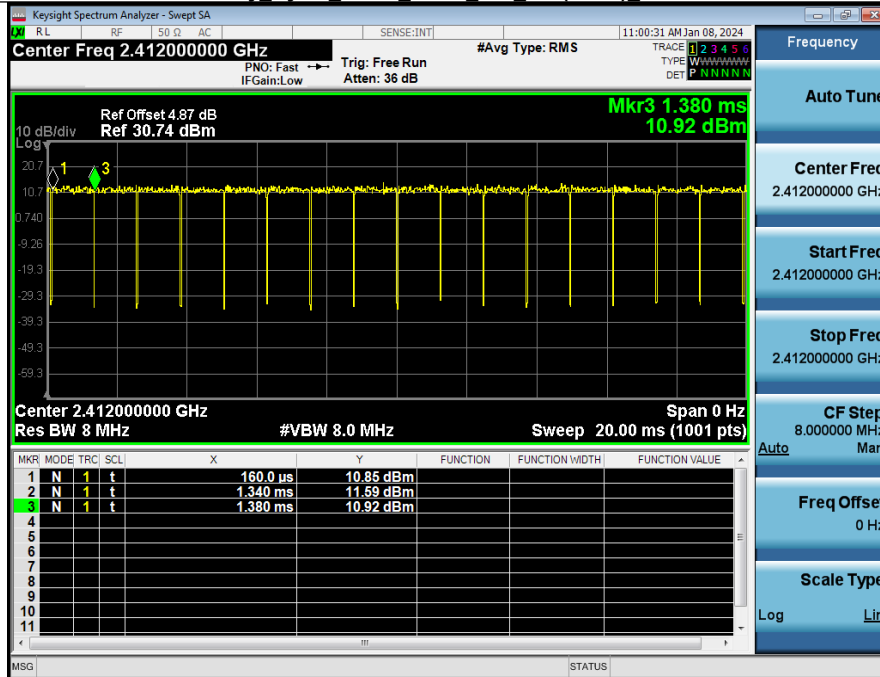
Duty Cycle NVNT ANT1_802_11g_2437



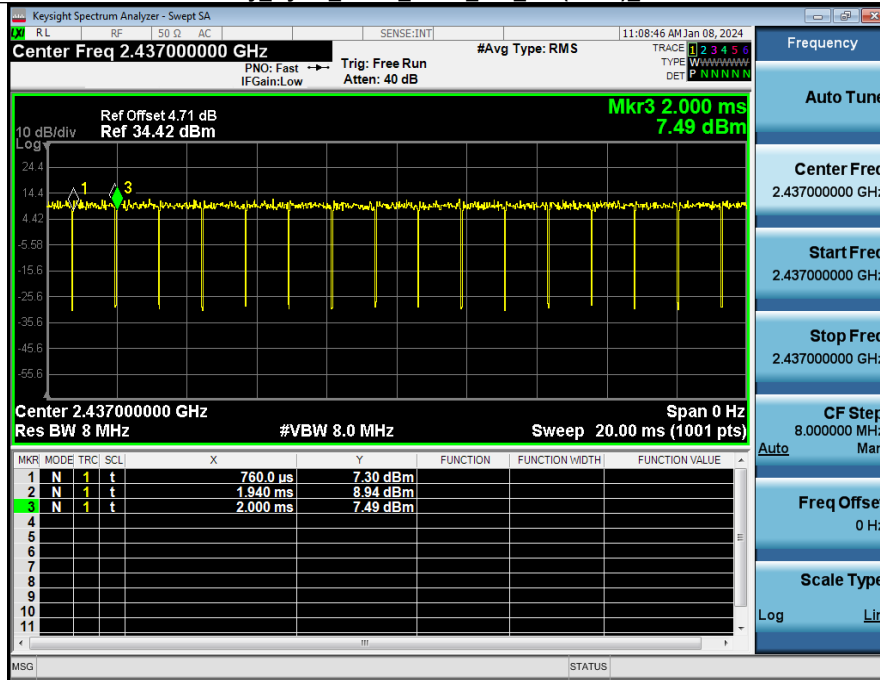
Duty Cycle NVNT_ANT1_802_11g_2462



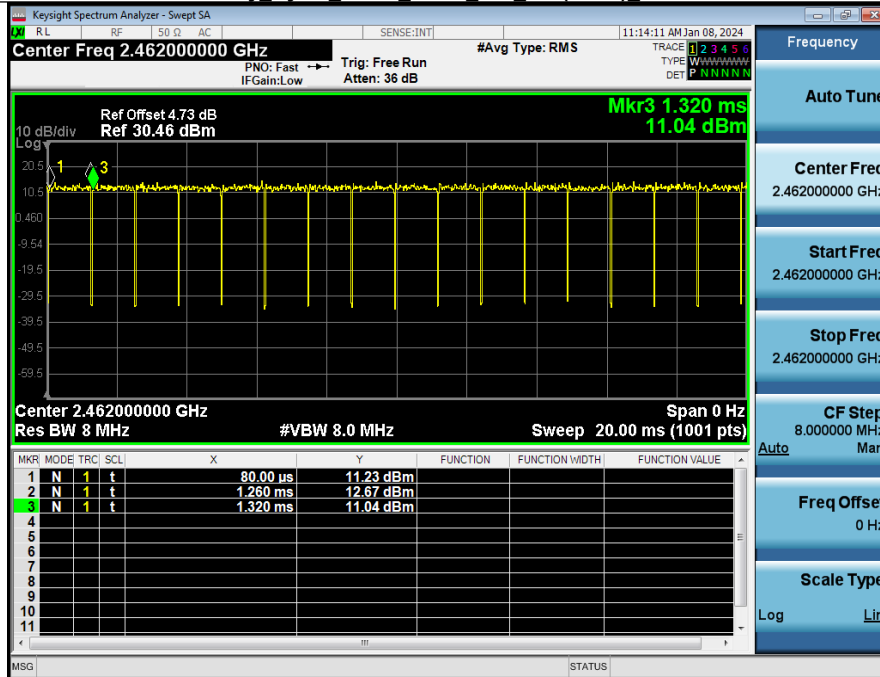
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



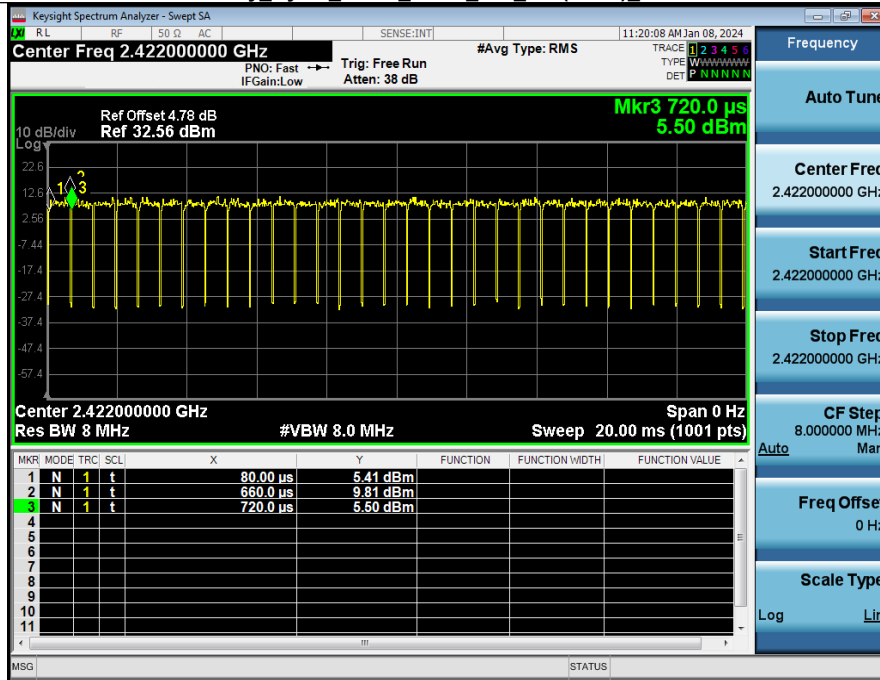
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



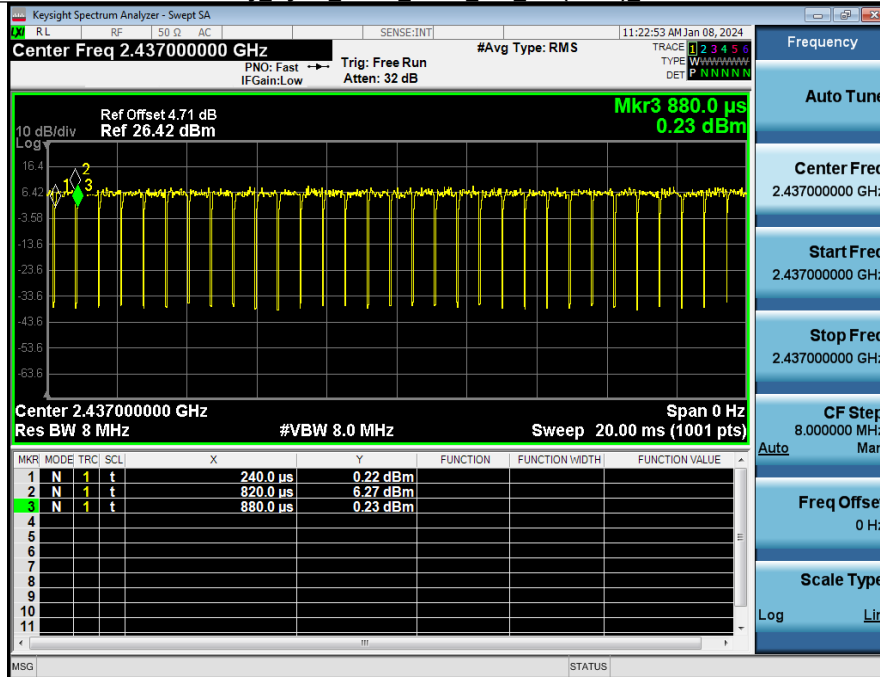
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



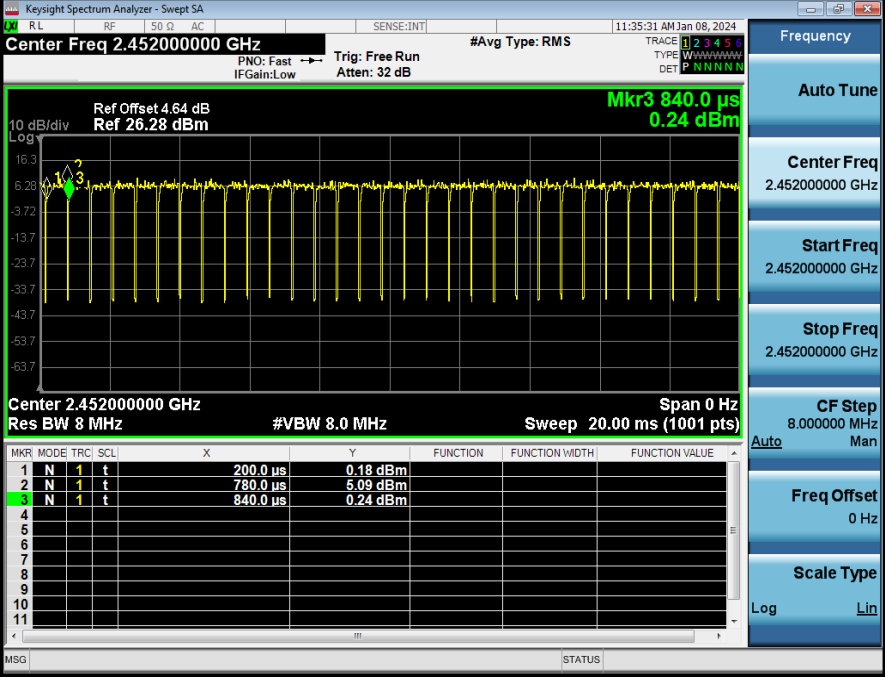
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



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	-3.71	-10.00	-13.71	8	Pass
NVNT	ANT1	802.11b	2437.00	-5.57	-10.00	-15.57	8	Pass
NVNT	ANT1	802.11b	2462.00	-2.40	-10.00	-12.40	8	Pass
NVNT	ANT1	802.11g	2412.00	-7.00	-10.00	-17.00	8	Pass
NVNT	ANT1	802.11g	2437.00	-9.18	-10.00	-19.18	8	Pass
NVNT	ANT1	802.11g	2462.00	-6.26	-10.00	-16.26	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.45	-10.00	-17.45	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-10.29	-10.00	-20.29	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-6.99	-10.00	-16.99	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-10.73	-10.00	-20.73	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-12.43	-10.00	-22.43	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-12.84	-10.00	-22.84	8	Pass



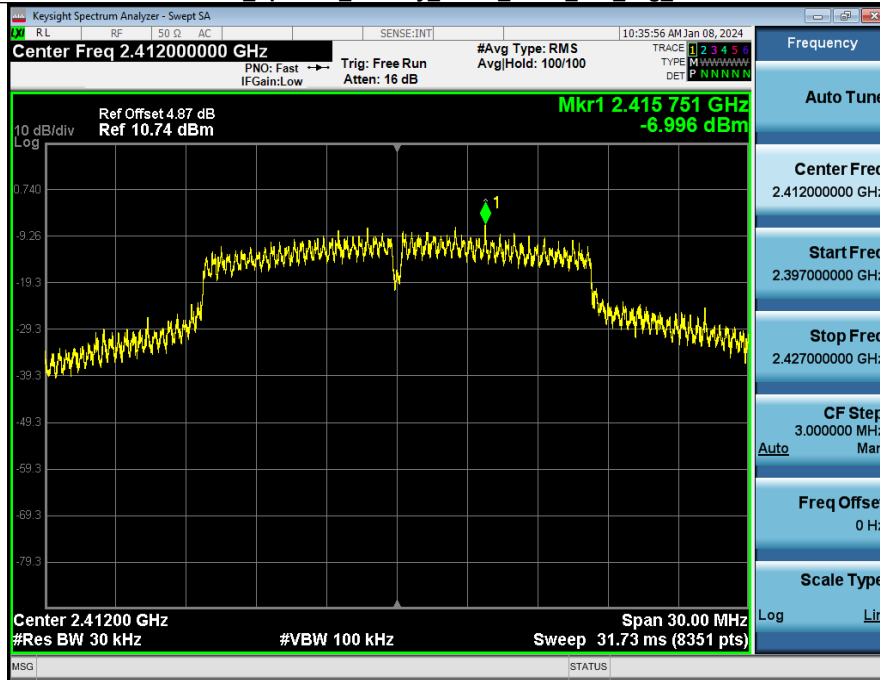
Power Spectral Density NVNT_ANT1_802_11b_2437



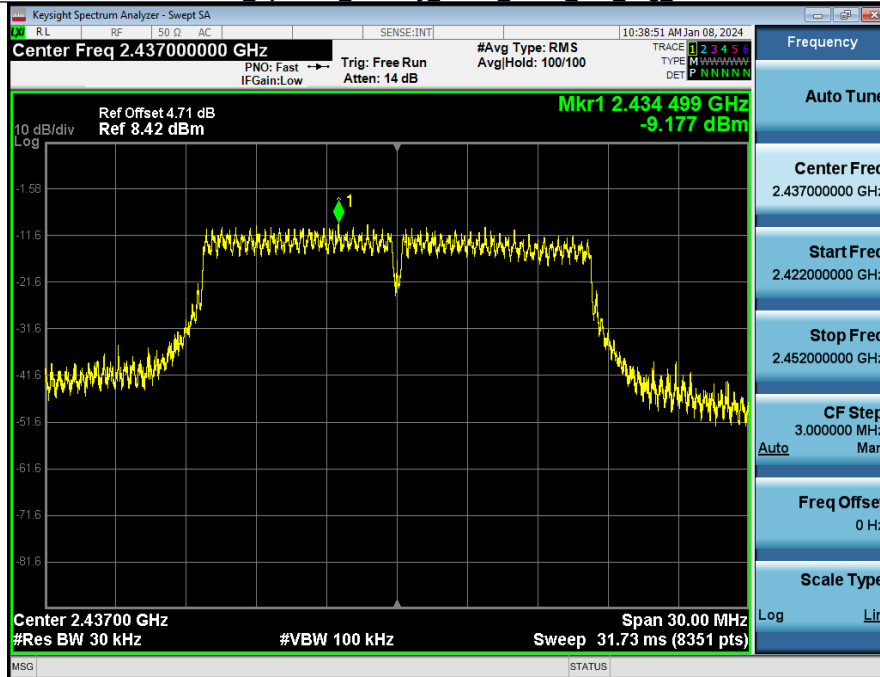
Power Spectral Density NVNT_ANT1_802_11b_2462



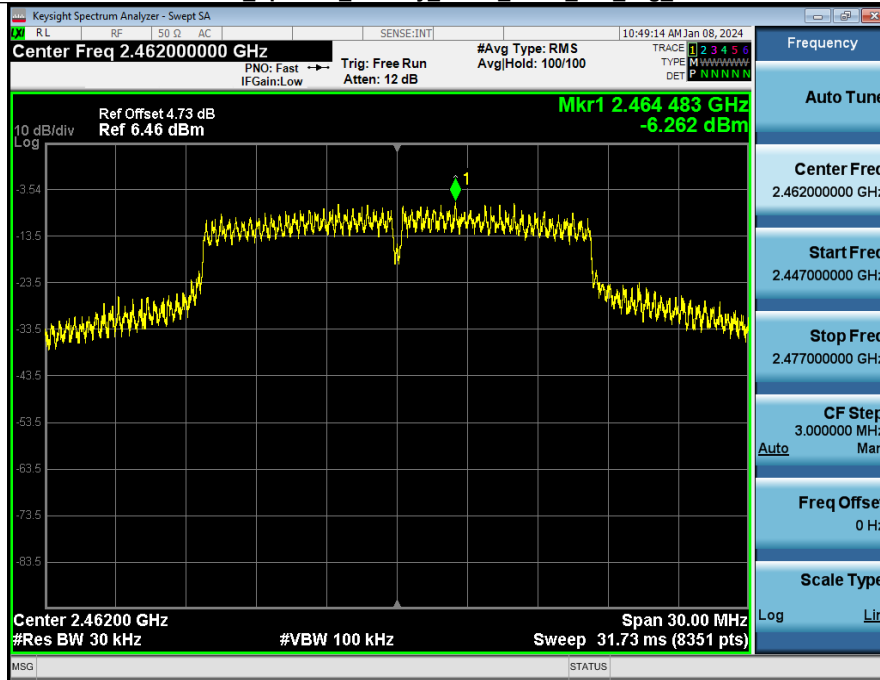
Power Spectral Density NVNT_ANT1_802_11g_2412



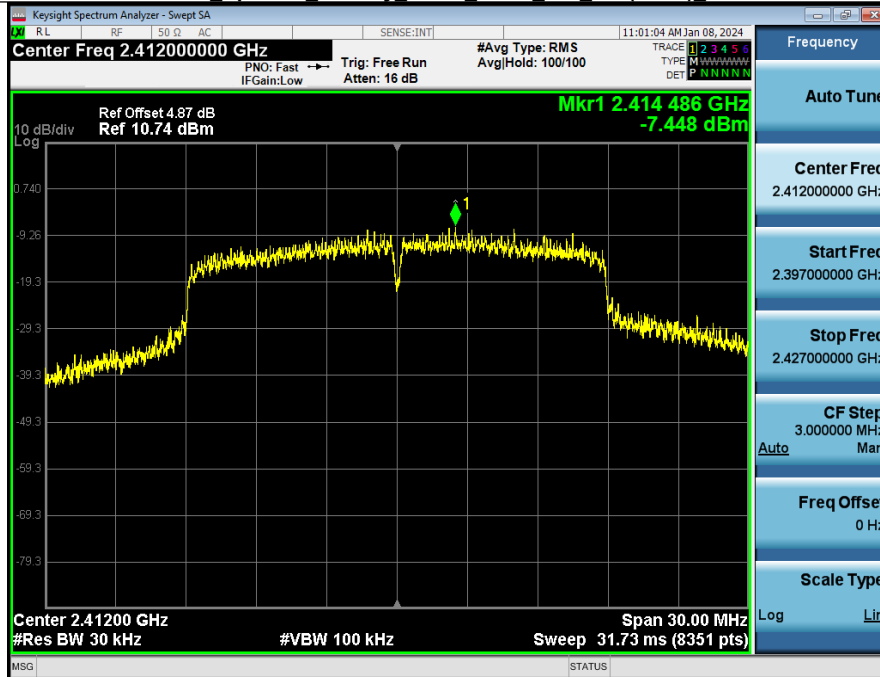
Power Spectral Density NVNT_ANT1_802_11g_2437



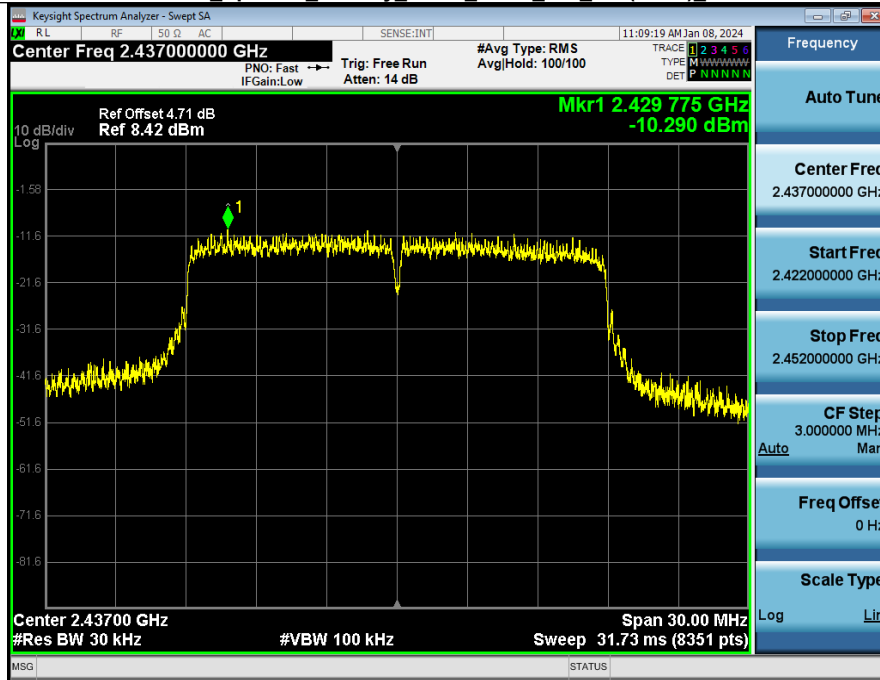
Power Spectral Density NVNT_ANT1_802_11g_2462



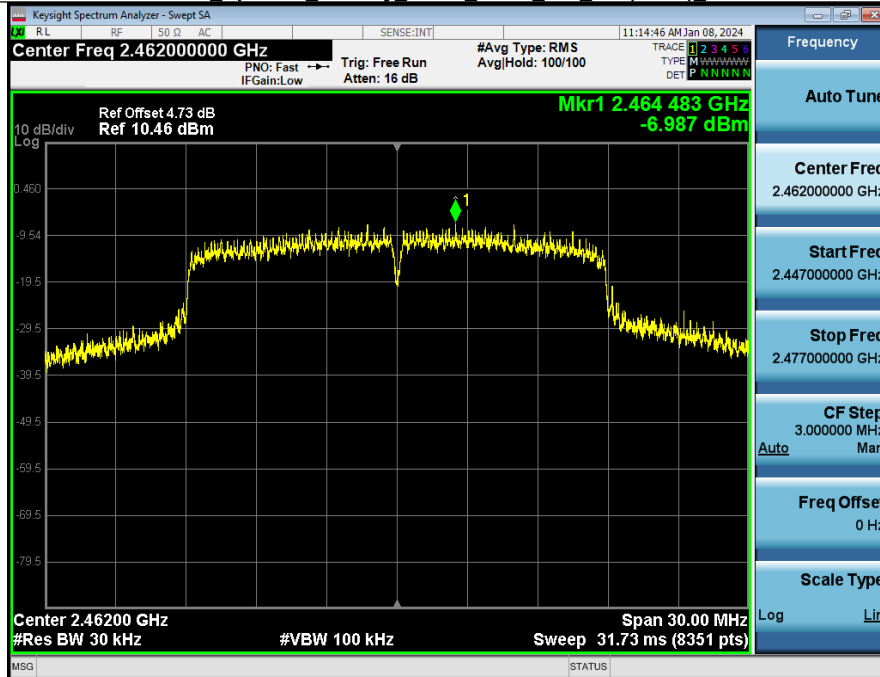
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



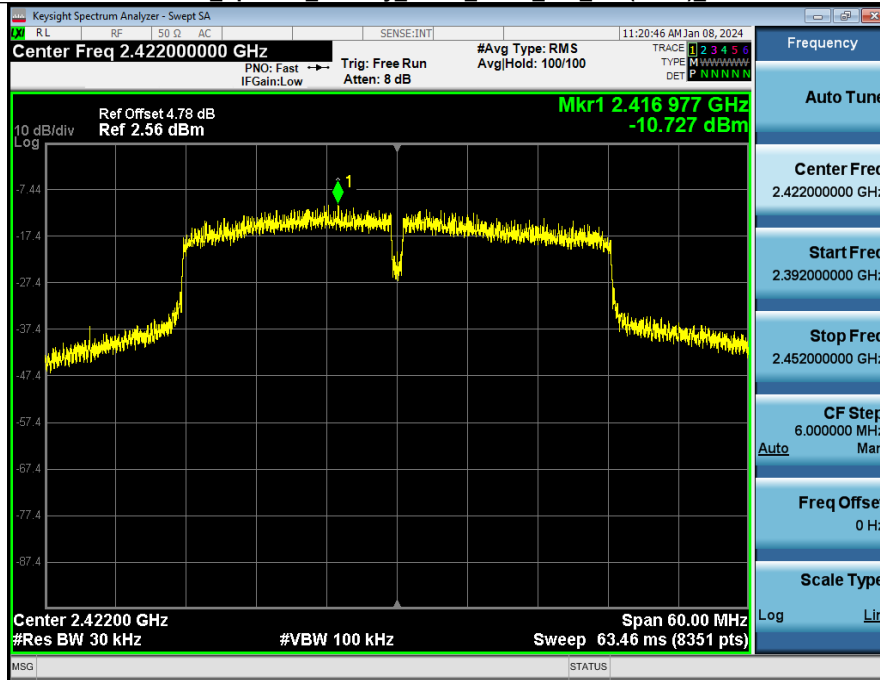
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437



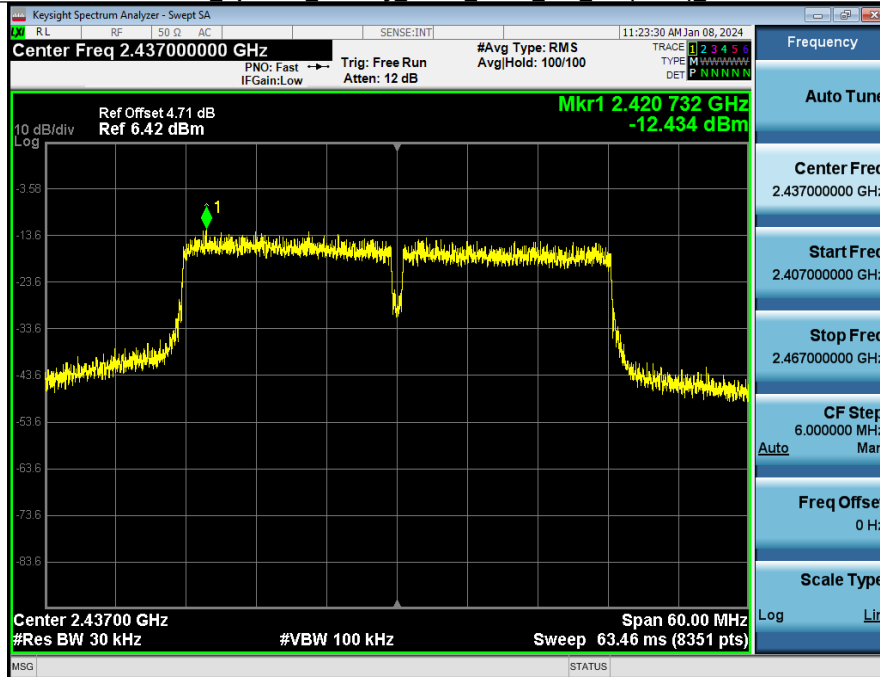
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2462



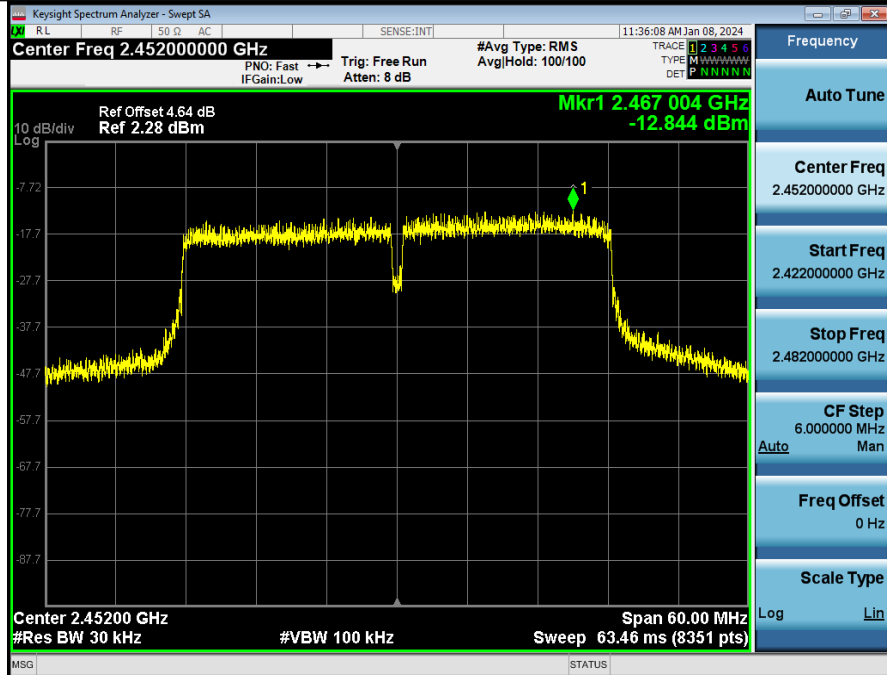
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437

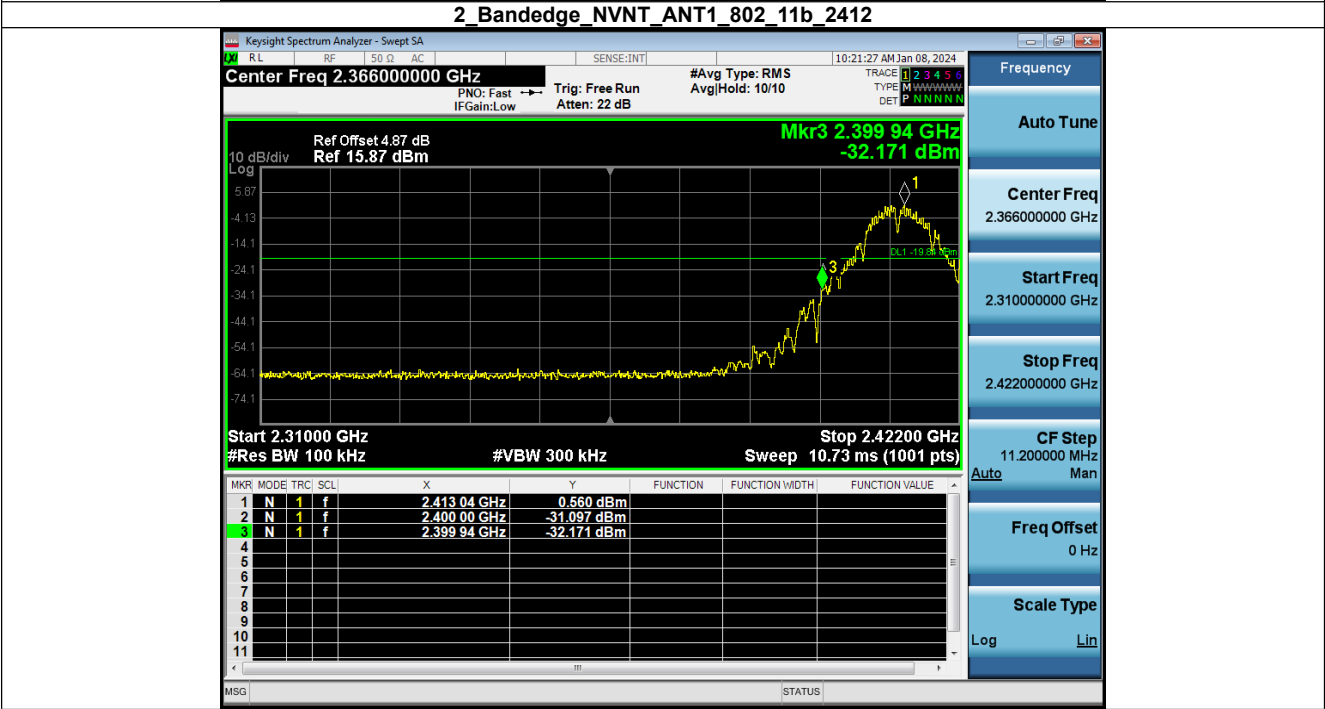


Power Spectral Density NVNT_ANT1_802_11n(HT40)_2452



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-32.171	-19.843	Pass
NVNT	ANT1	802.11b	2462.00	2483.536	-47.931	-17.820	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-25.717	-22.616	Pass
NVNT	ANT1	802.11g	2462.00	2483.632	-36.962	-21.423	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-29.225	-22.786	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	-37.593	-22.353	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.496	-31.496	-25.528	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.972	-41.279	-27.599	Pass



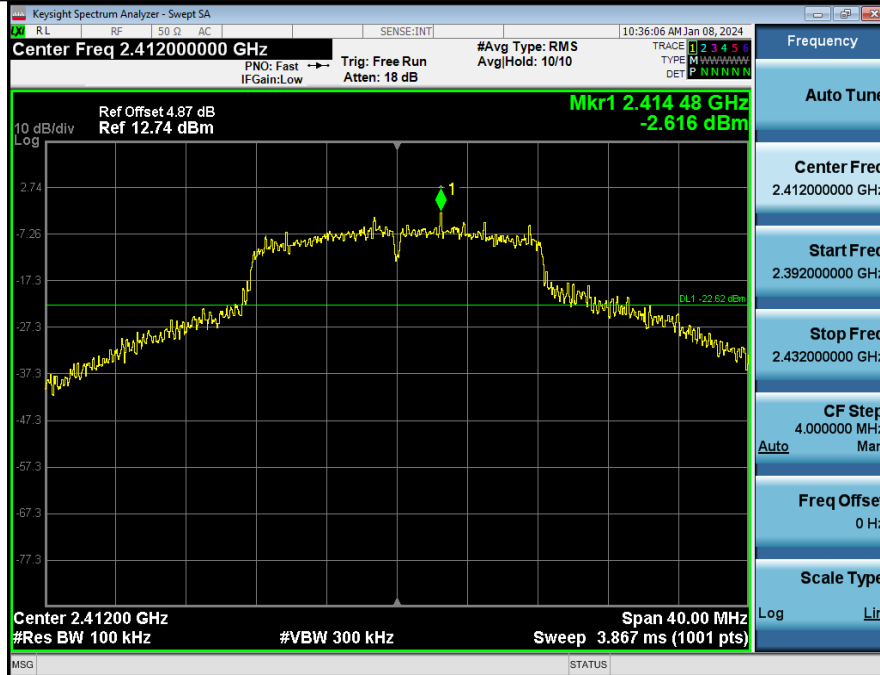
1_Reference_Level_NVNT_ANT1_802_11b_2462



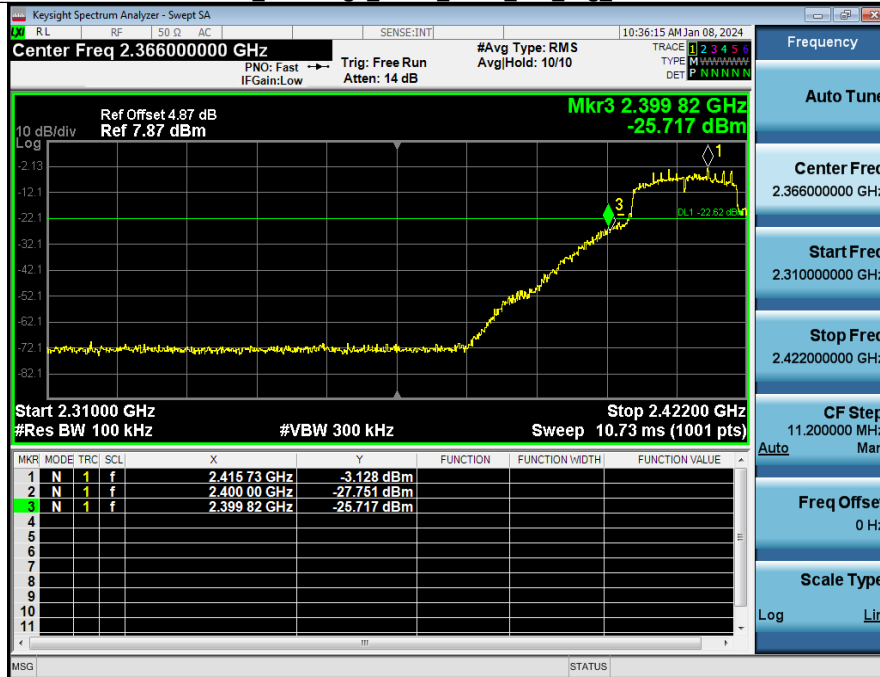
2_Bandedge_NVNT_ANT1_802_11b_2462



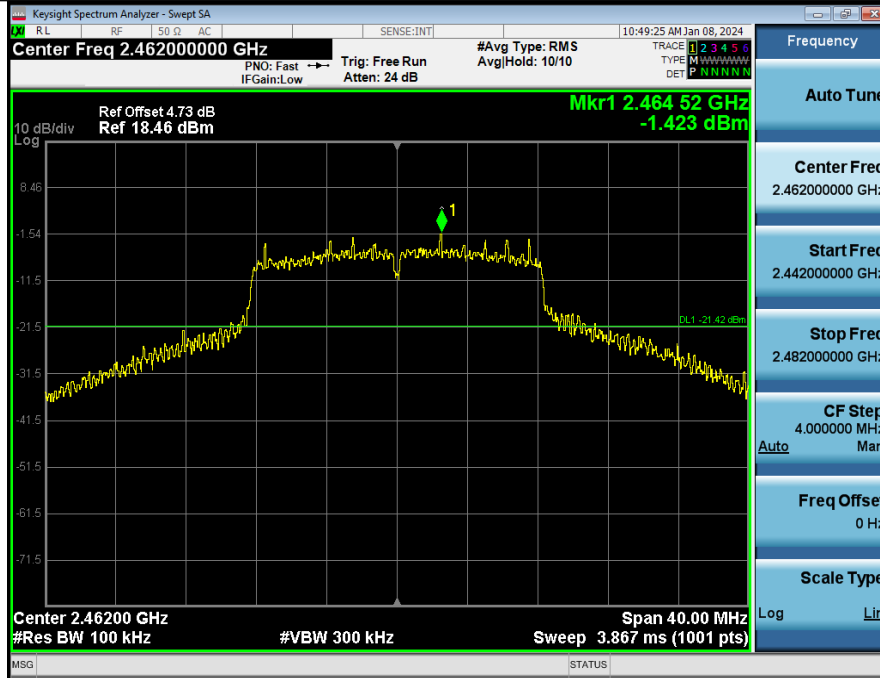
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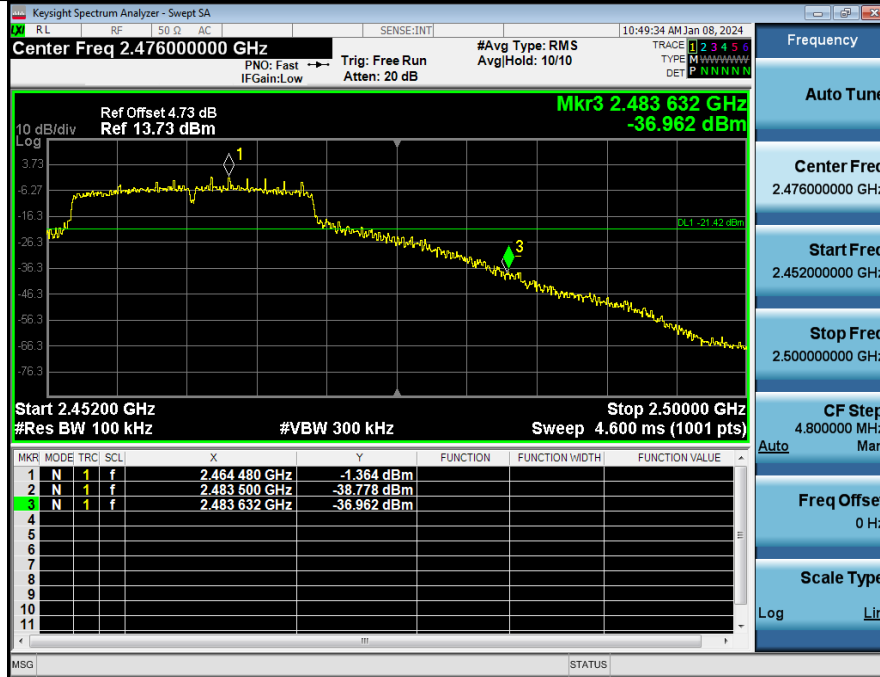
2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



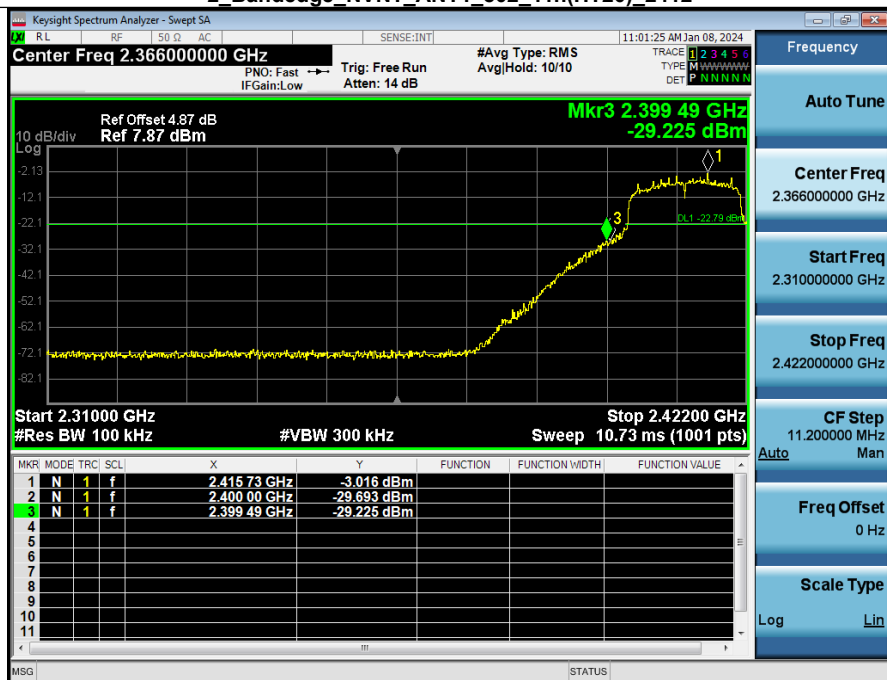
2_Bandedge_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



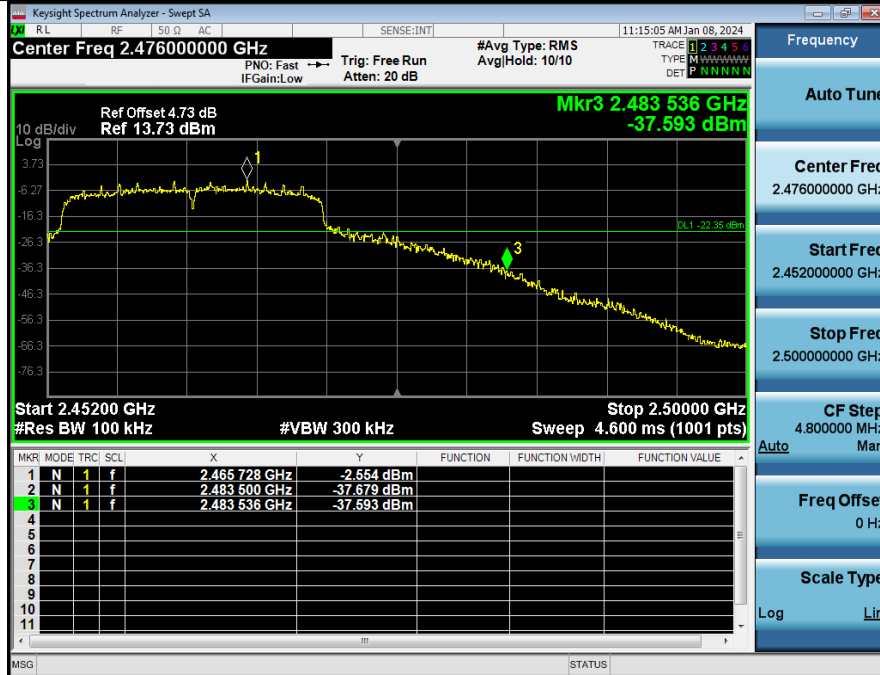
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



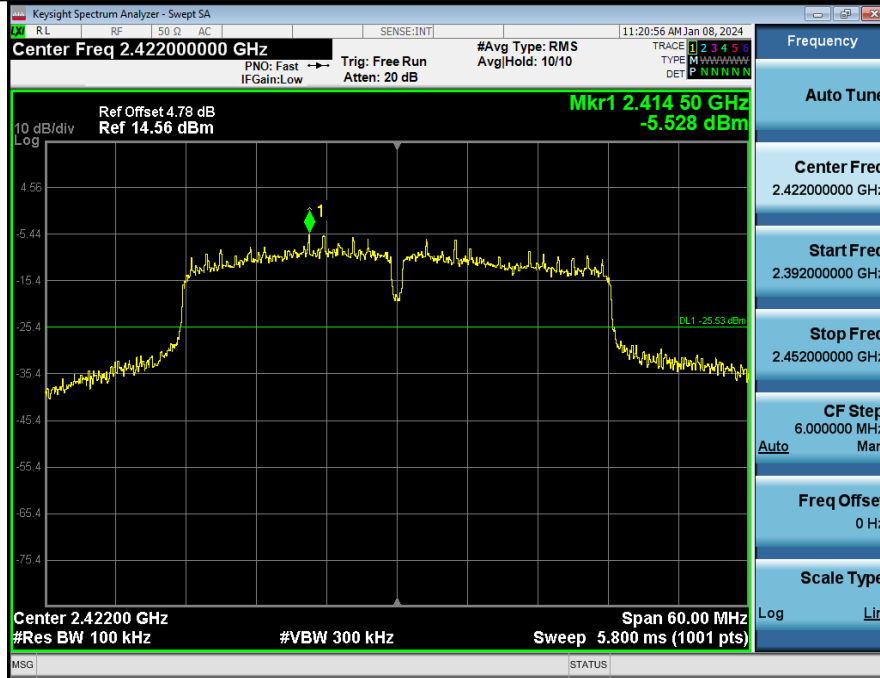
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



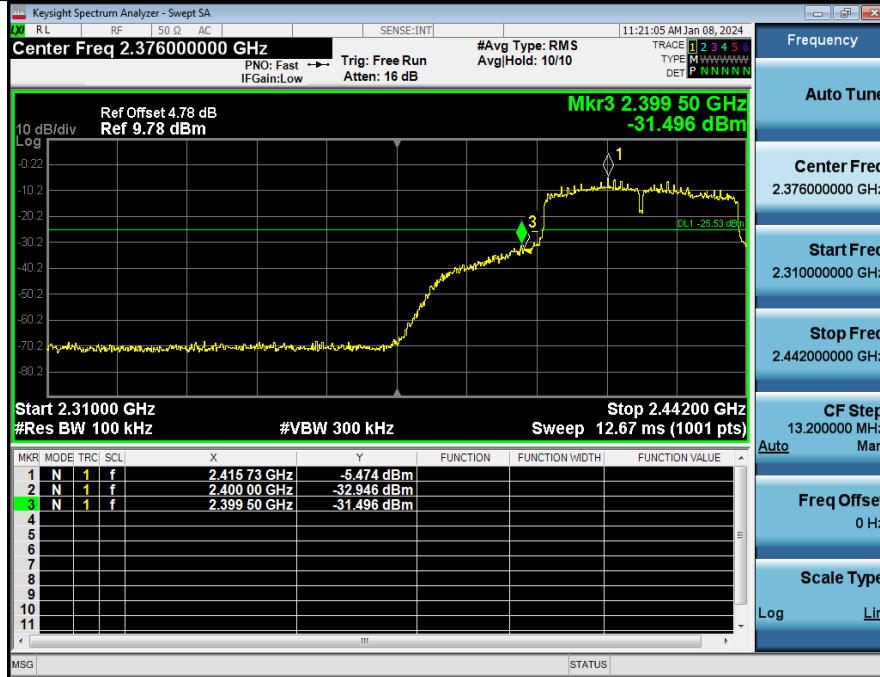
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



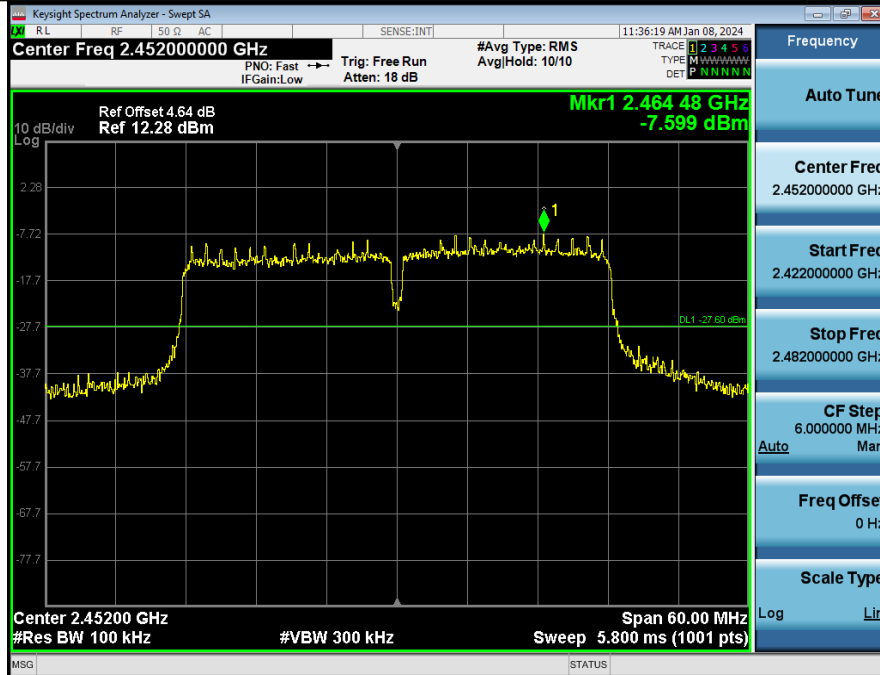
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452

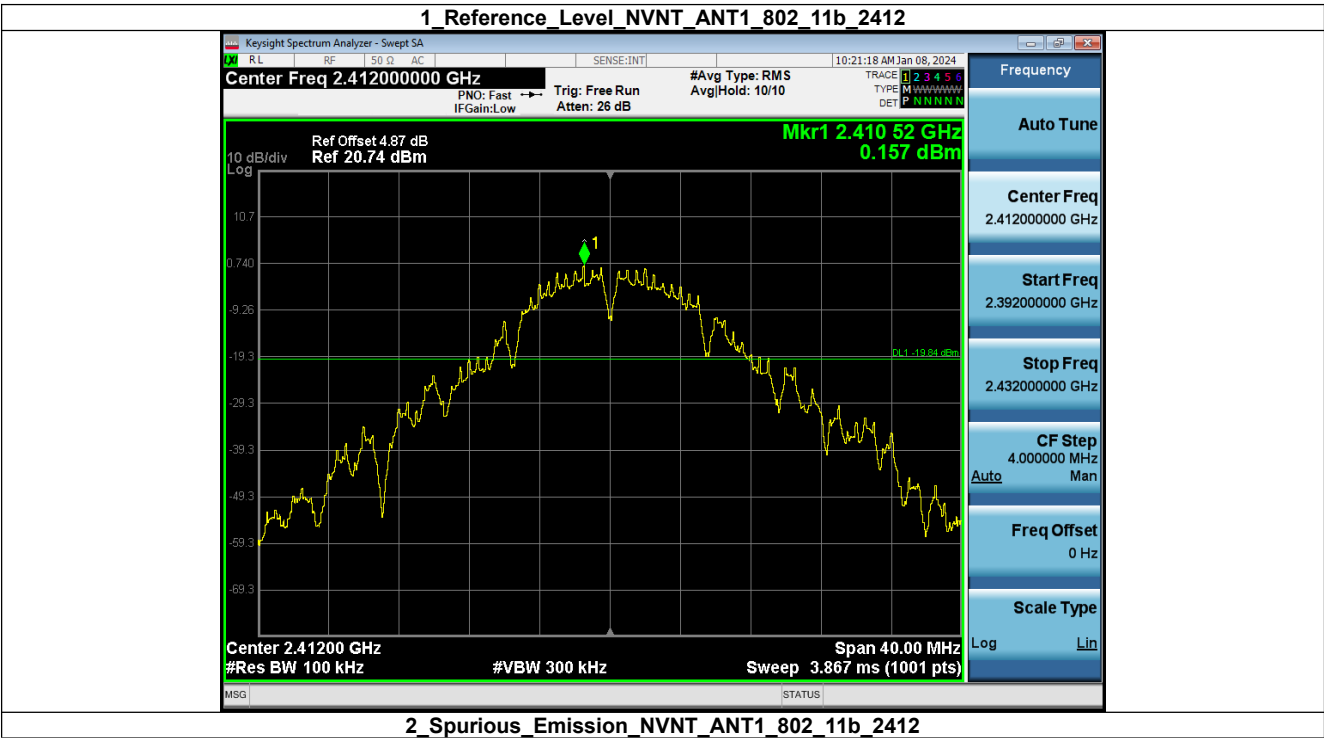


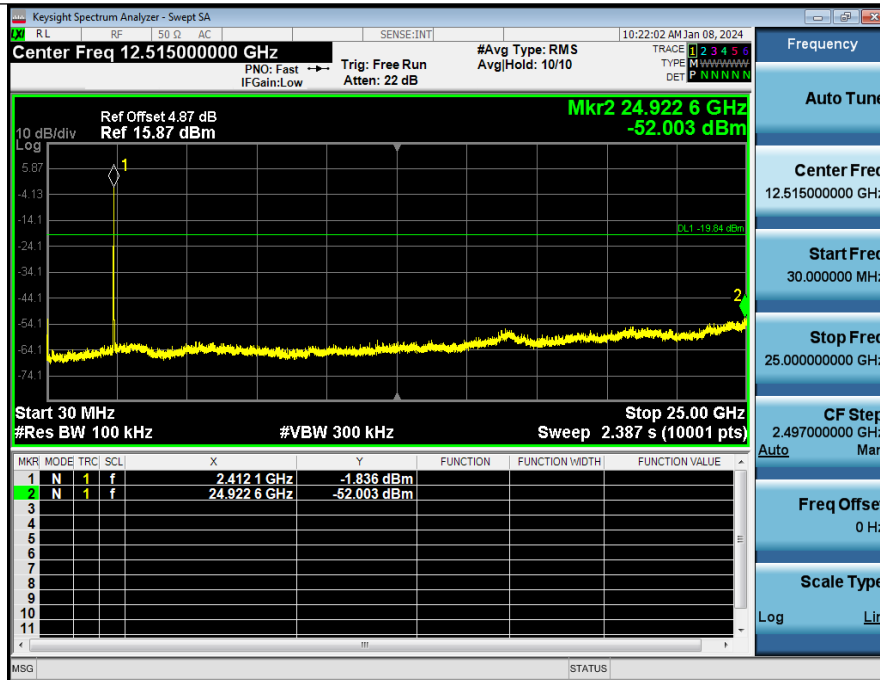
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



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	24922.593	-52.003	-19.843	Pass
NVNT	ANT1	802.11b	2437.00	52.473	-53.415	-21.857	Pass
NVNT	ANT1	802.11b	2462.00	24997.503	-49.579	-17.820	Pass
NVNT	ANT1	802.11g	2412.00	49.976	-51.845	-22.616	Pass
NVNT	ANT1	802.11g	2437.00	30.000	-52.568	-24.282	Pass
NVNT	ANT1	802.11g	2462.00	24945.066	-54.568	-21.423	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	37.491	-54.801	-22.786	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	34.994	-54.506	-25.592	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	831.537	-52.342	-22.353	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	37.491	-54.578	-25.528	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	32.497	-52.658	-27.441	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	37.491	-54.444	-27.599	Pass

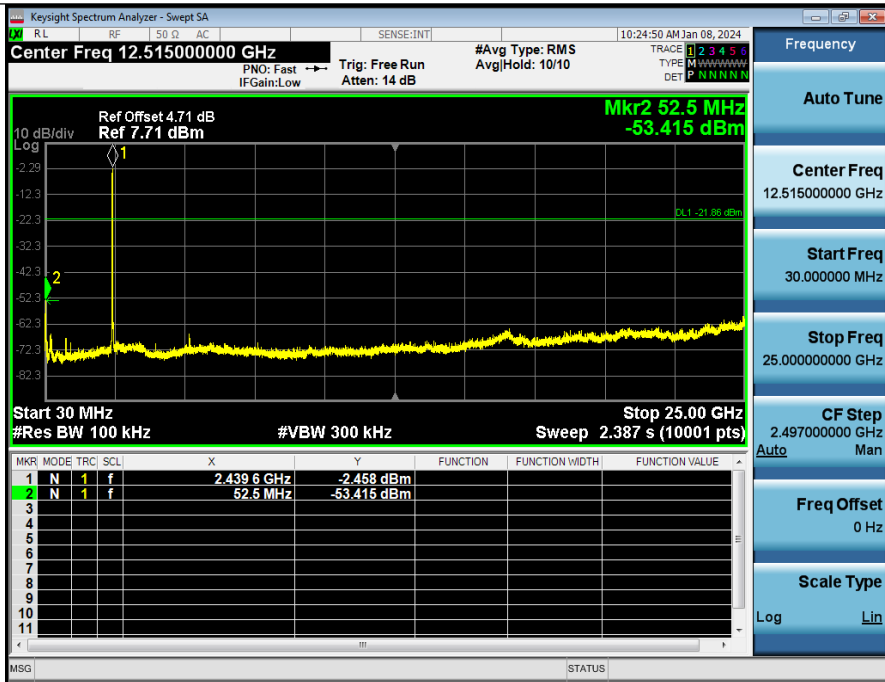




1 Reference_Level_NVNT_ANT1_802_11b_2437



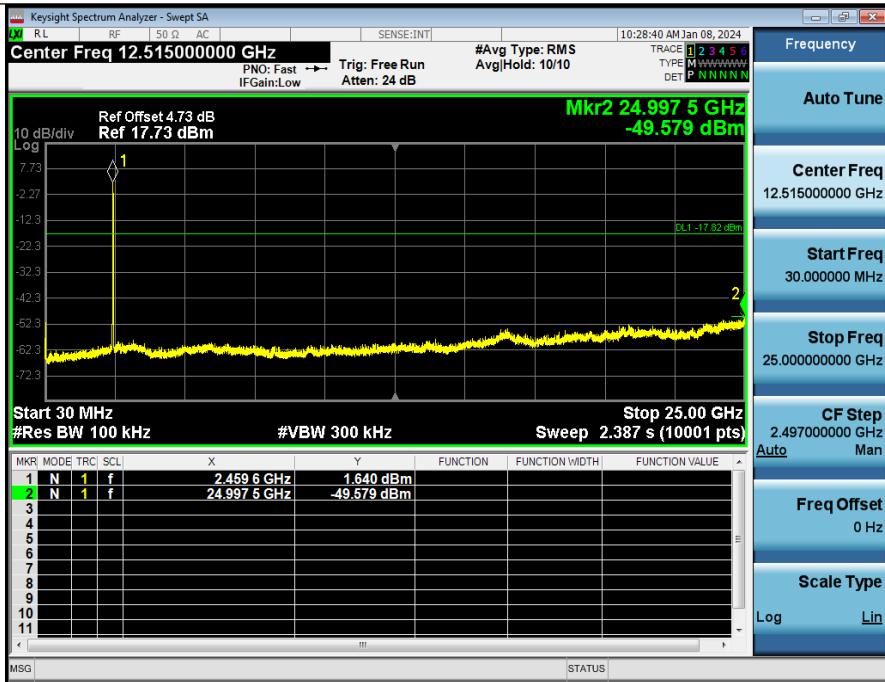
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1 Reference Level NVNT_ANT1_802_11b_2462



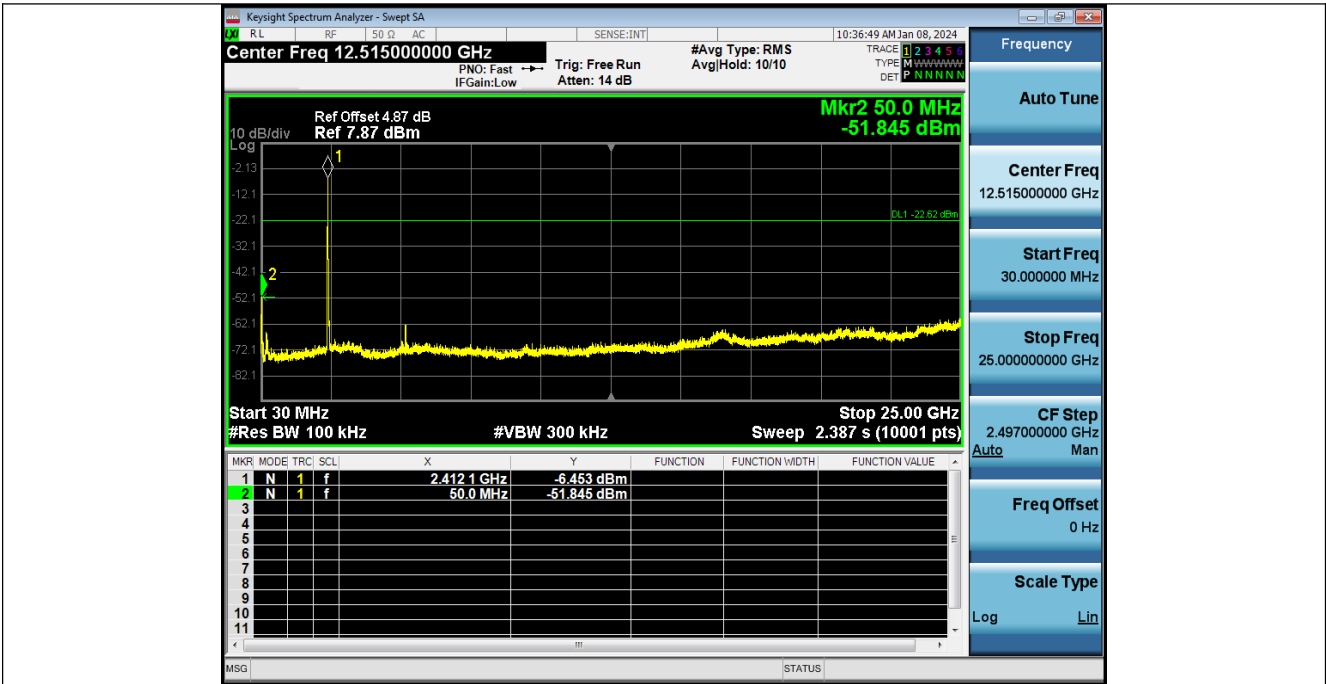
2 Spurious Emission NVNT_ANT1_802_11b_2462



1 Reference Level NVNT_ANT1_802_11g_2412



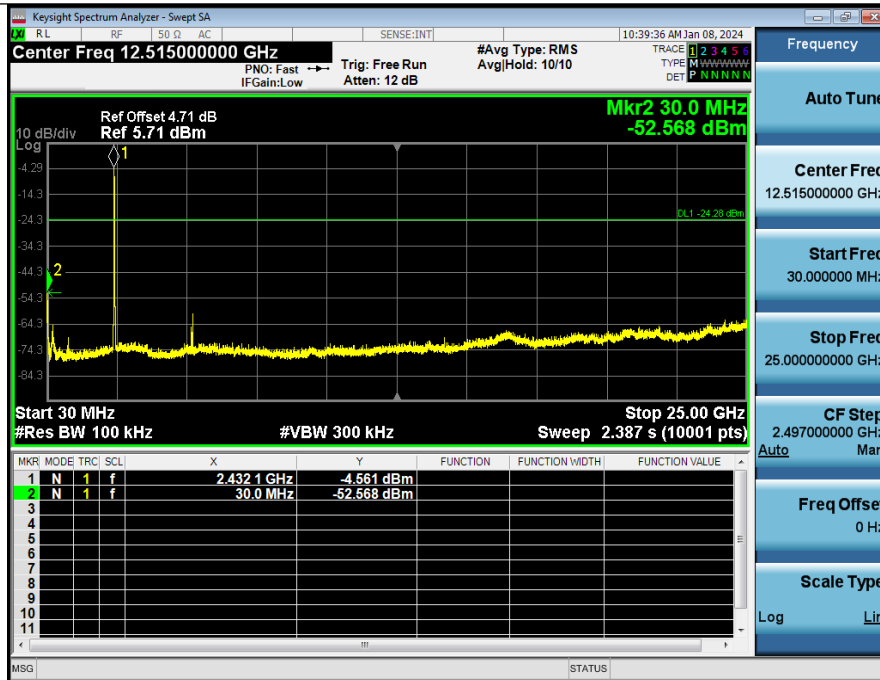
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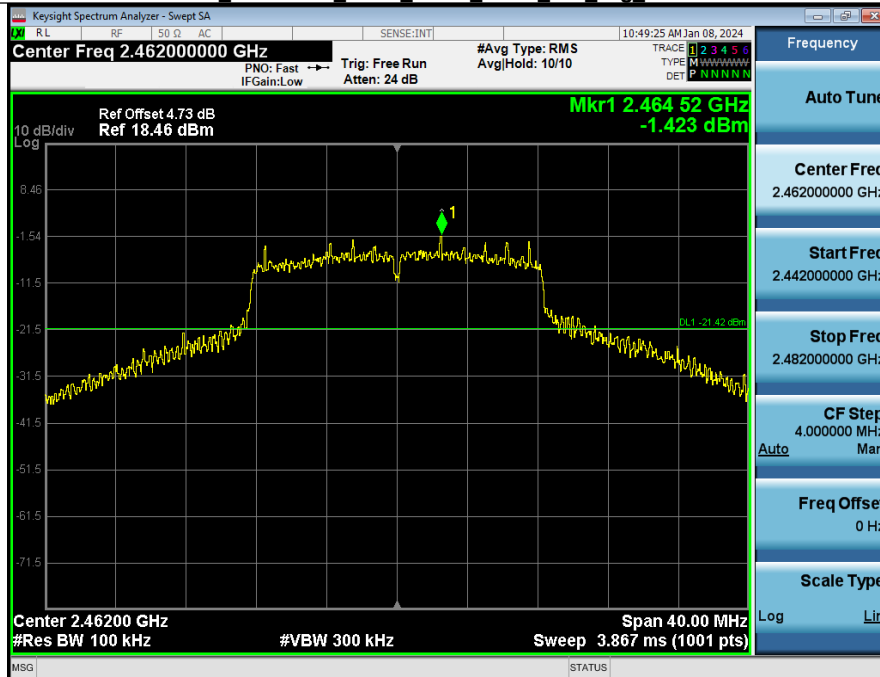
1 Reference Level NVNT_ANT1_802_11g_2437



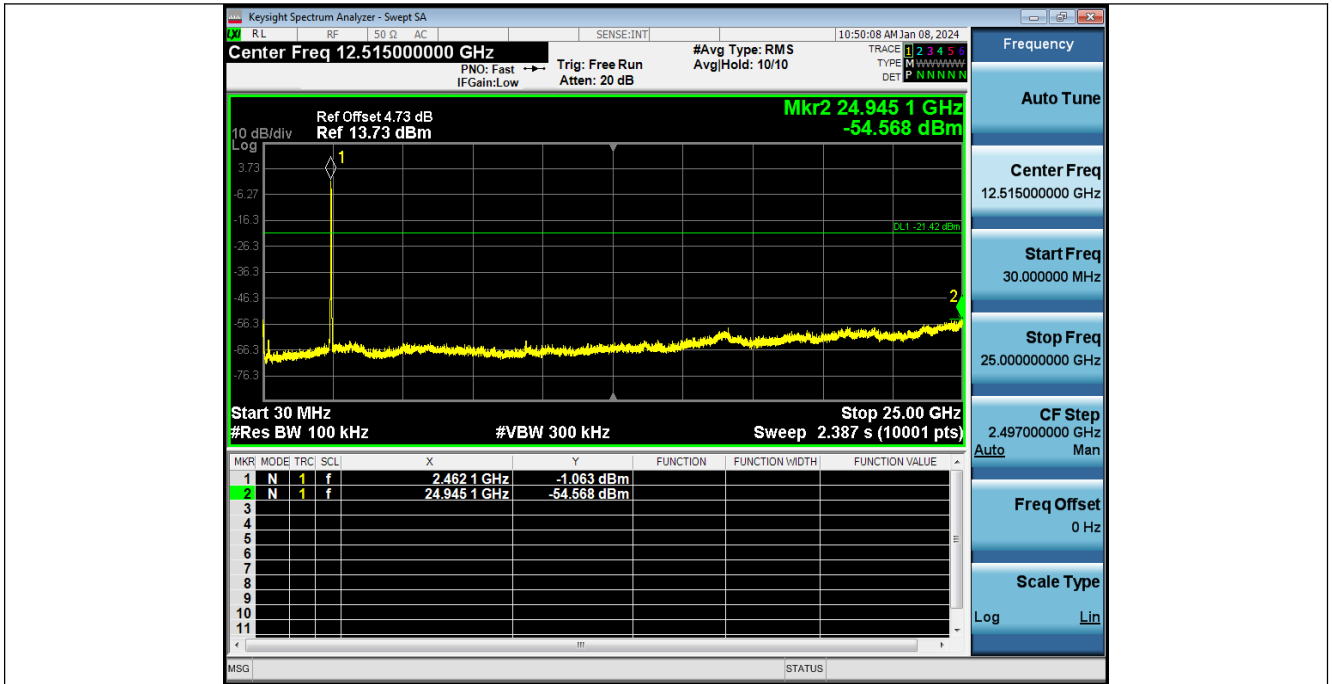
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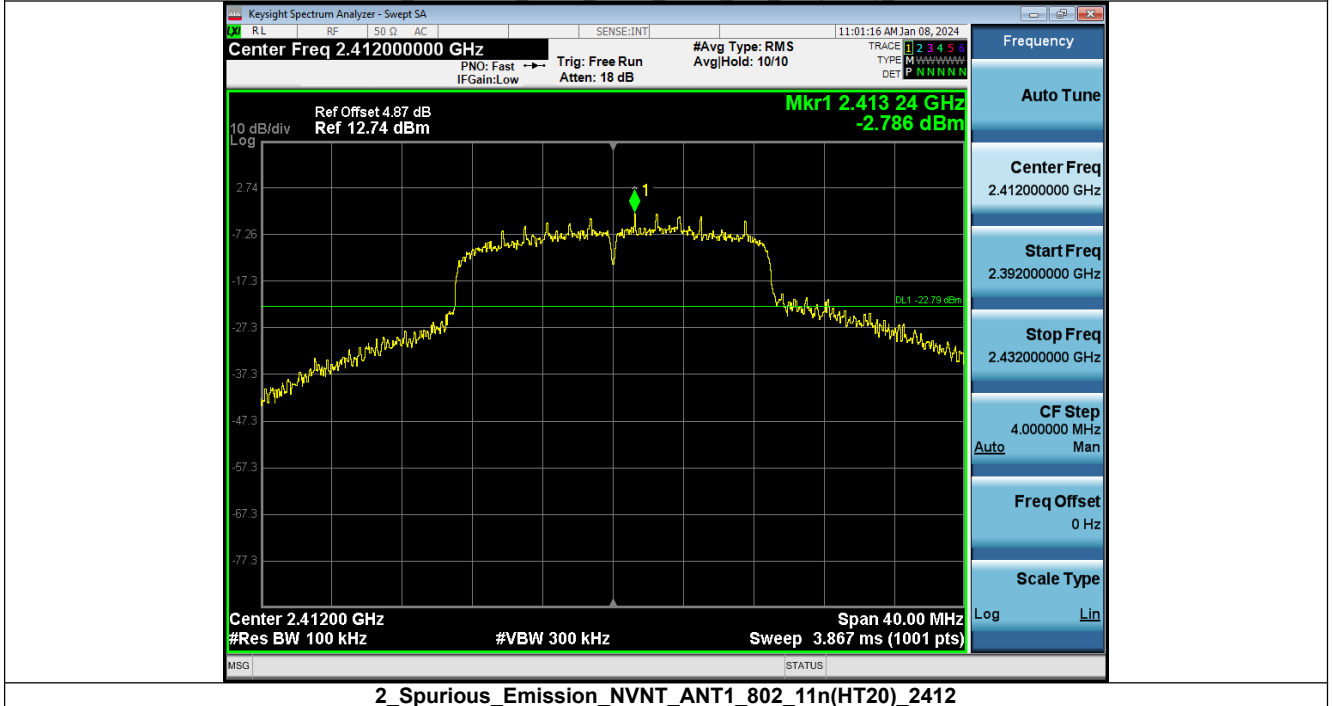
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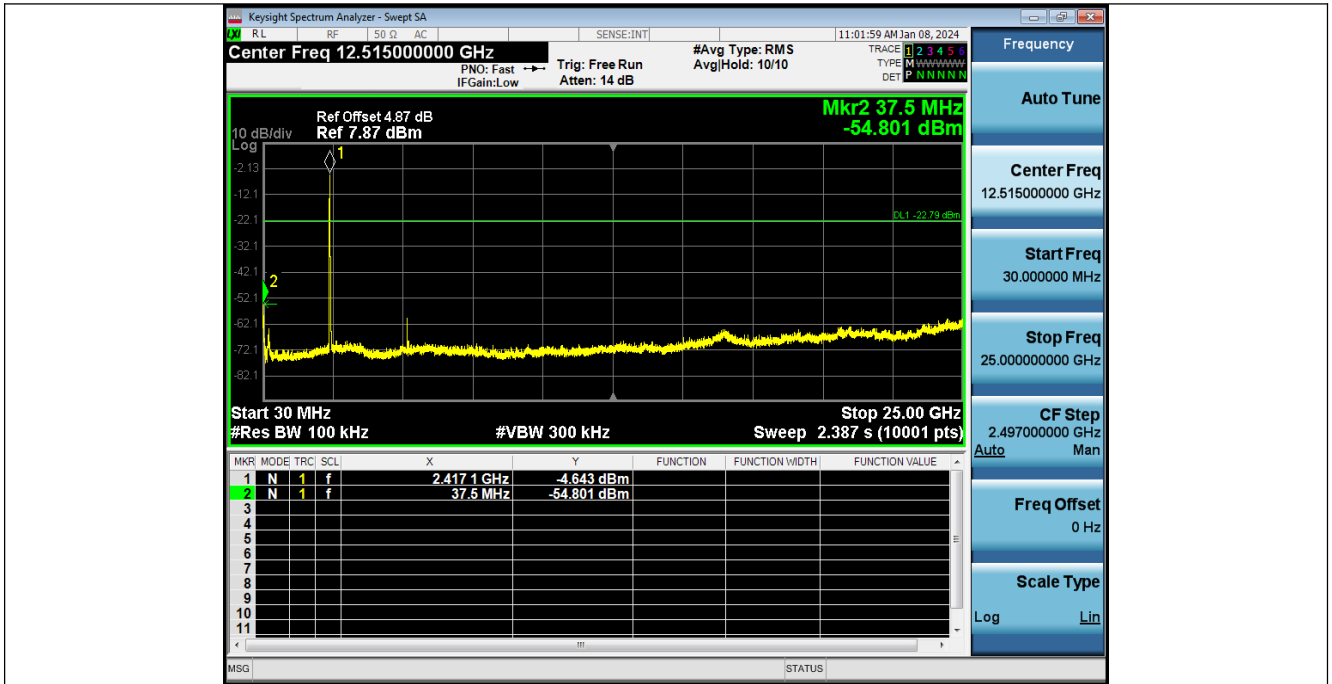
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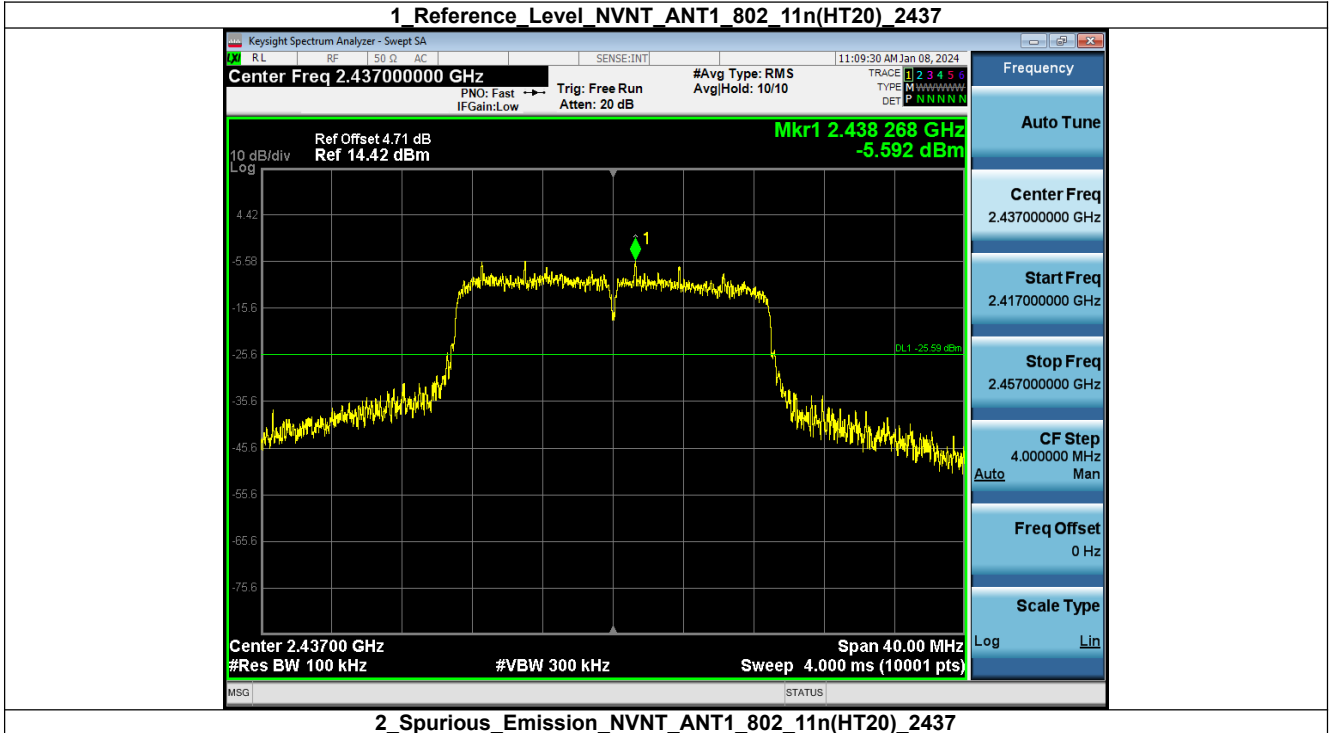
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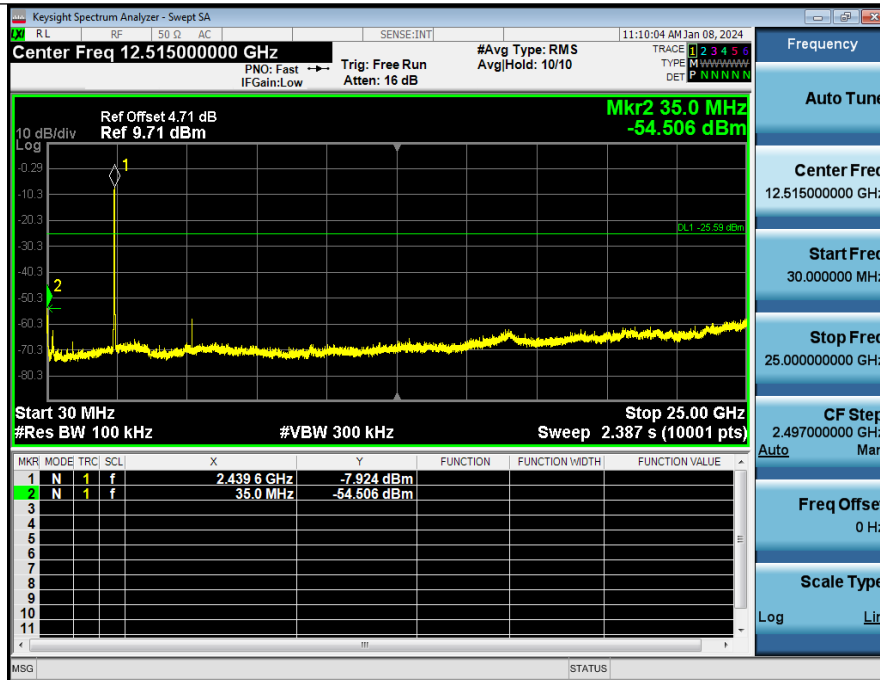
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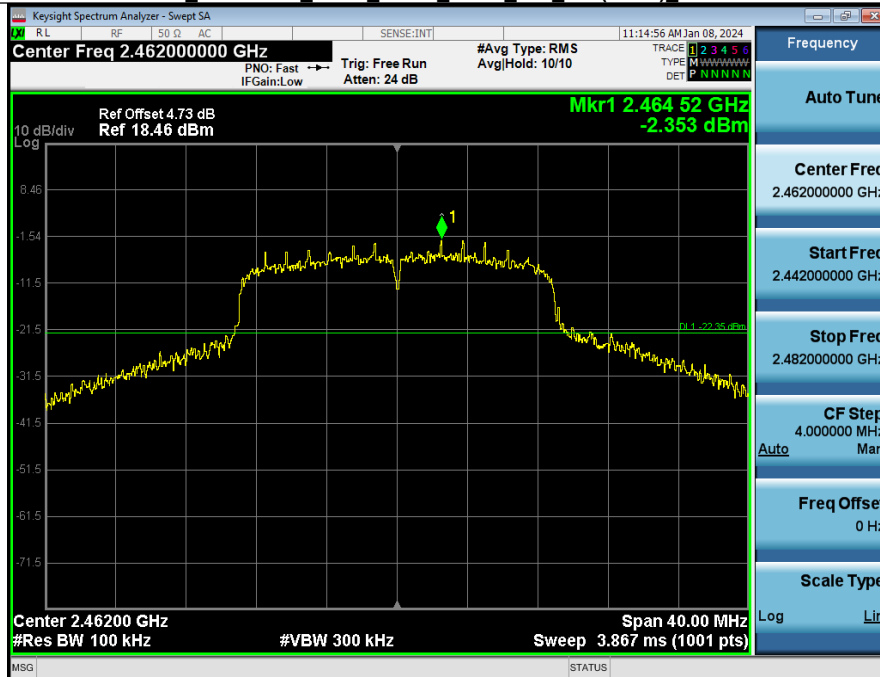
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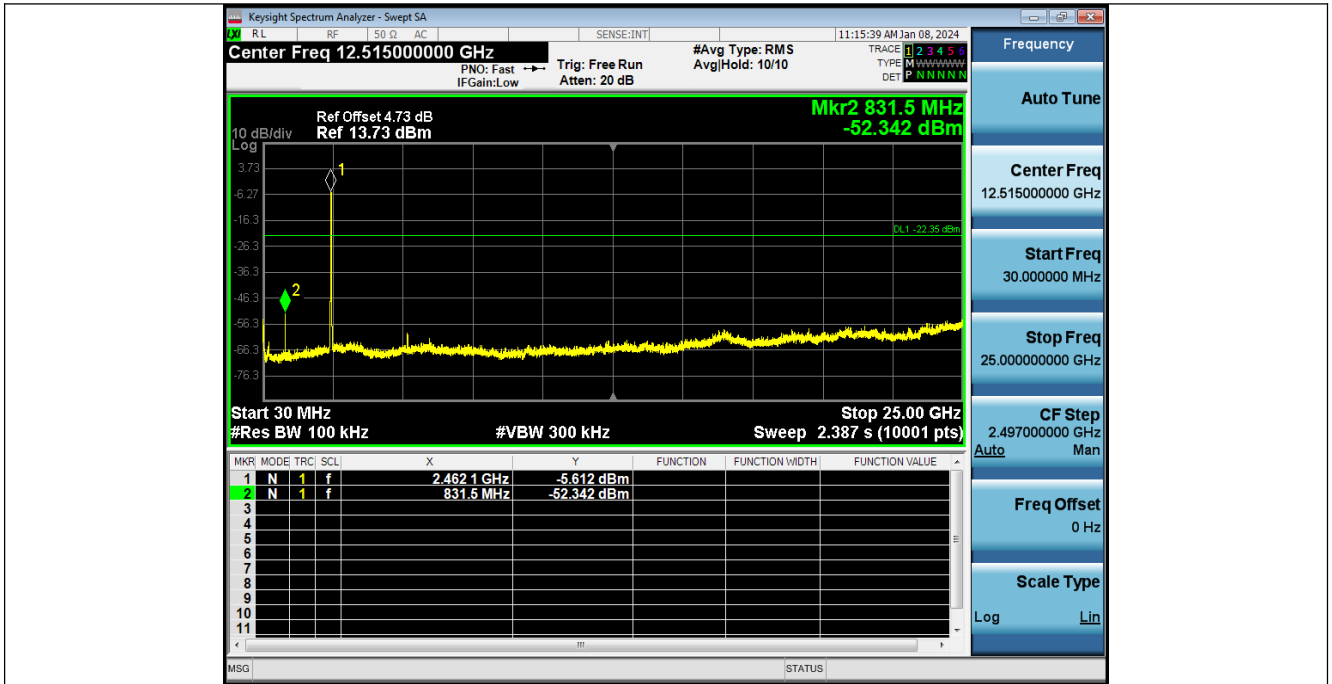
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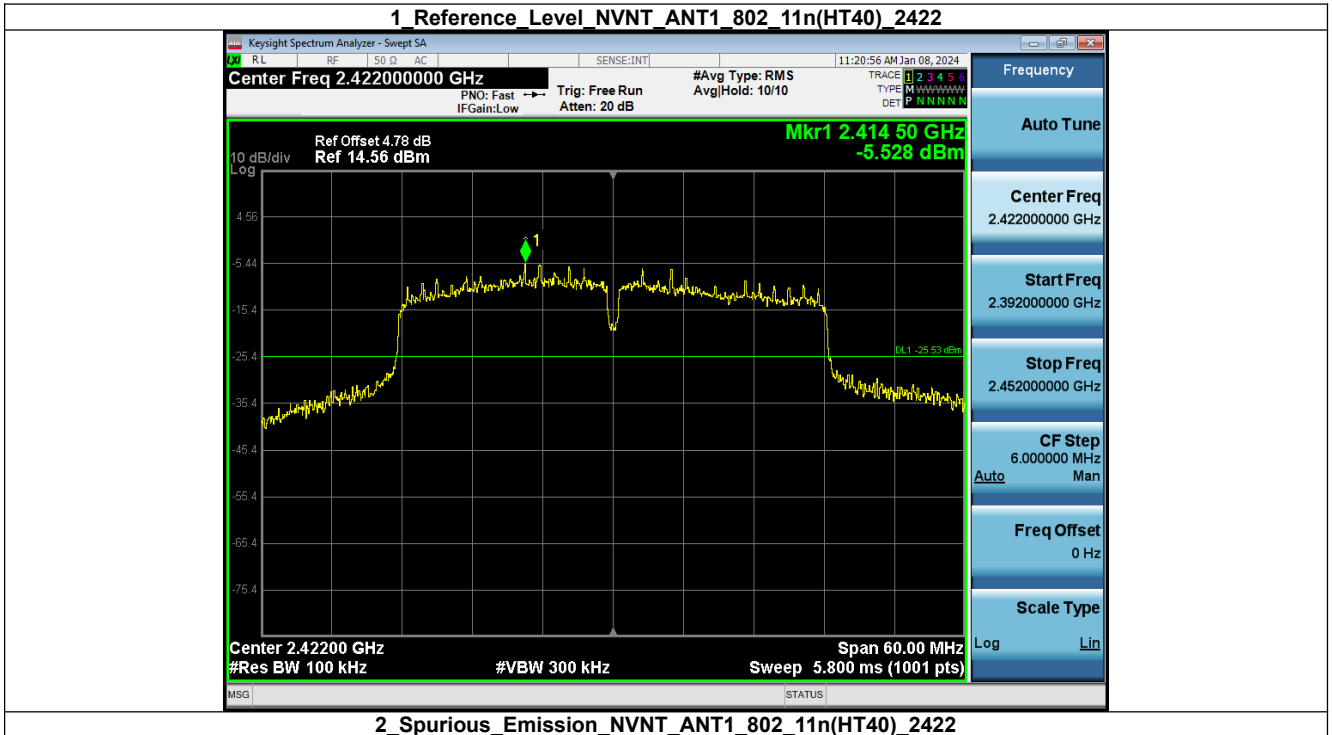
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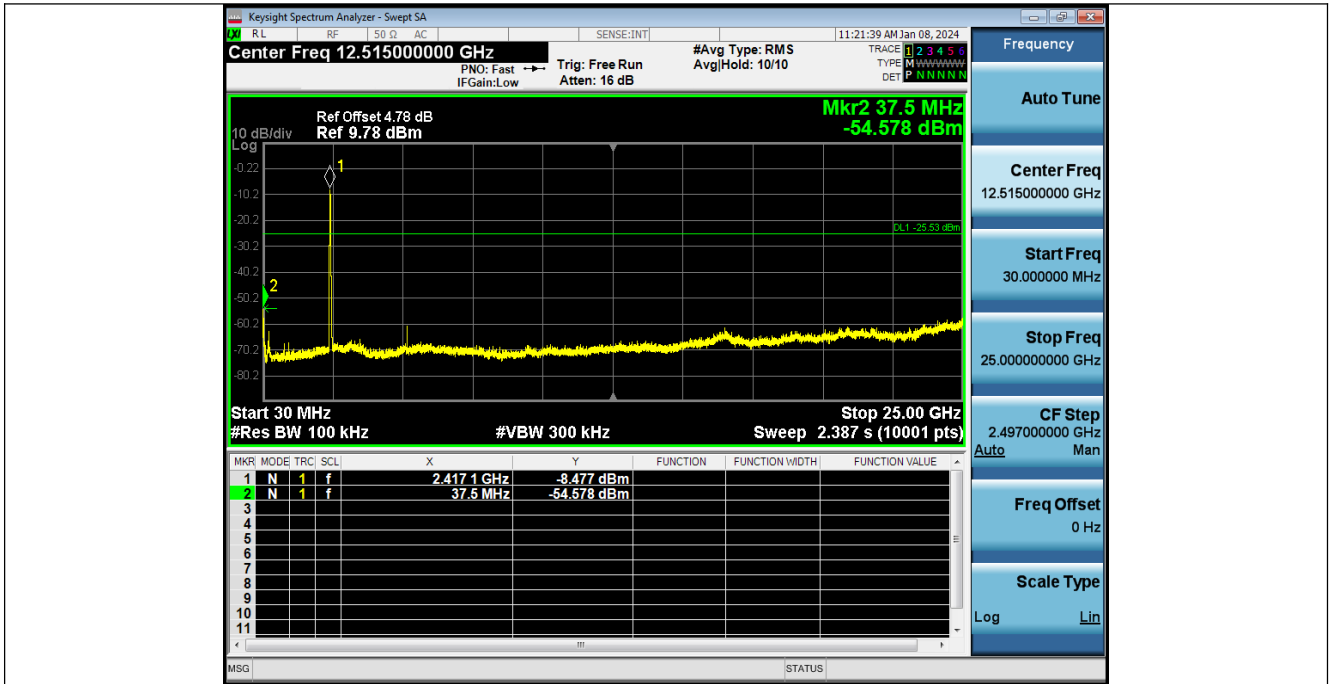
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1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



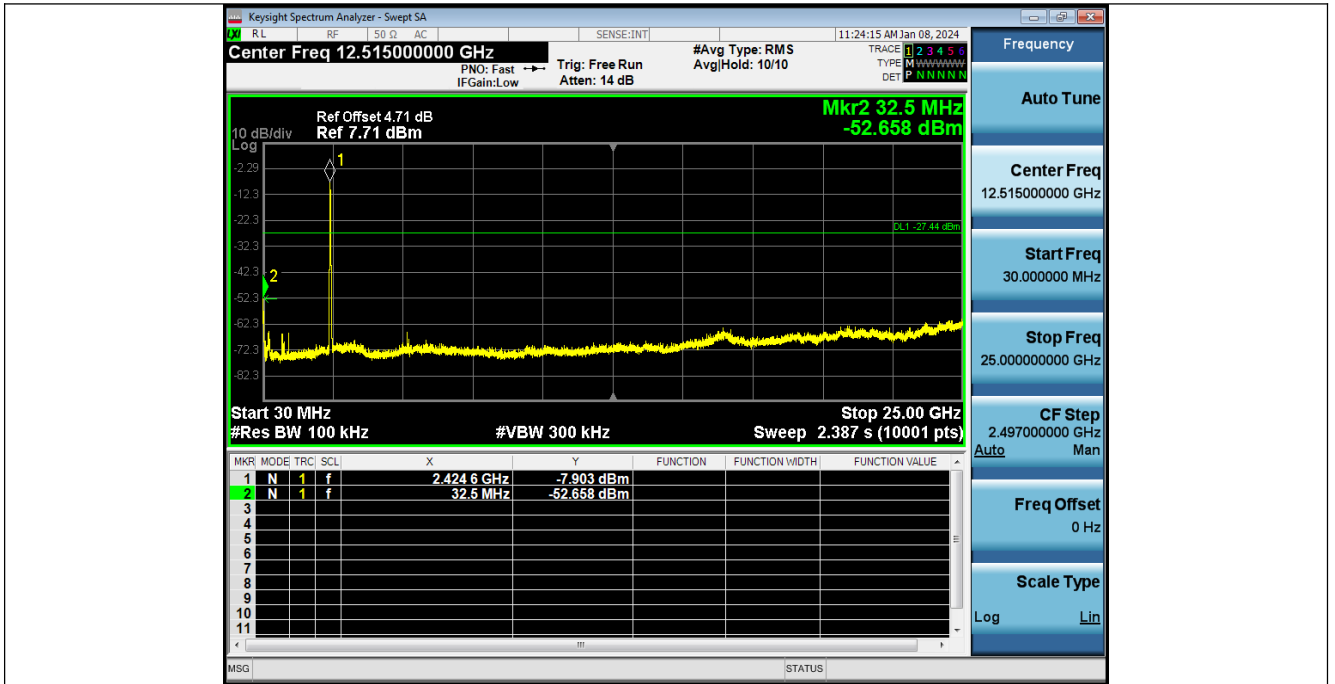
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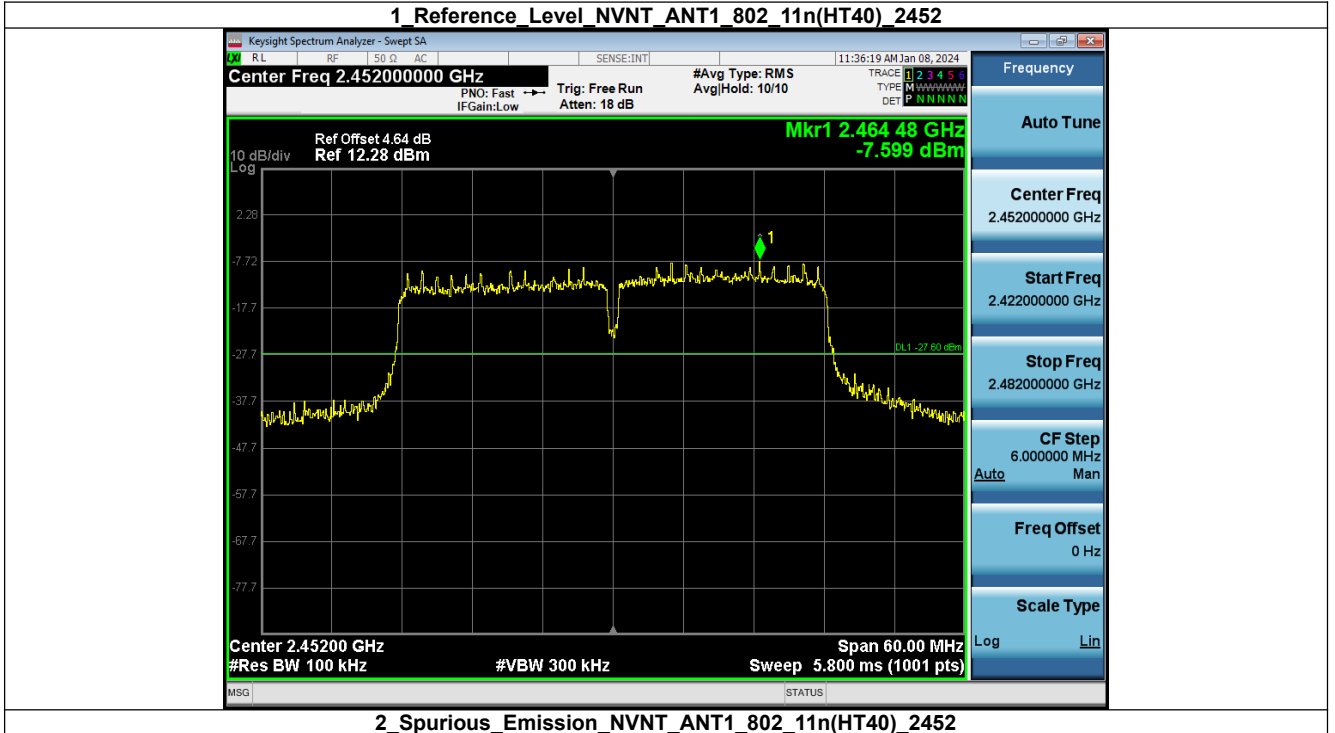
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2437



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

