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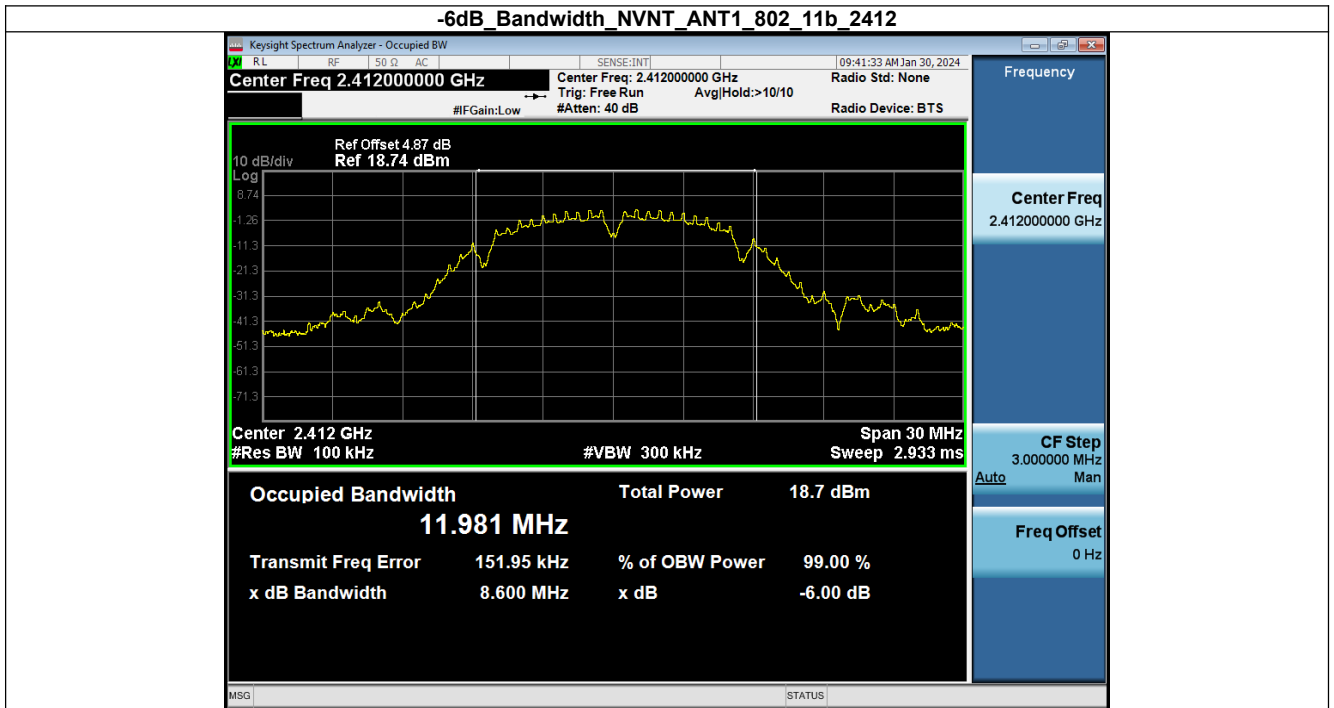
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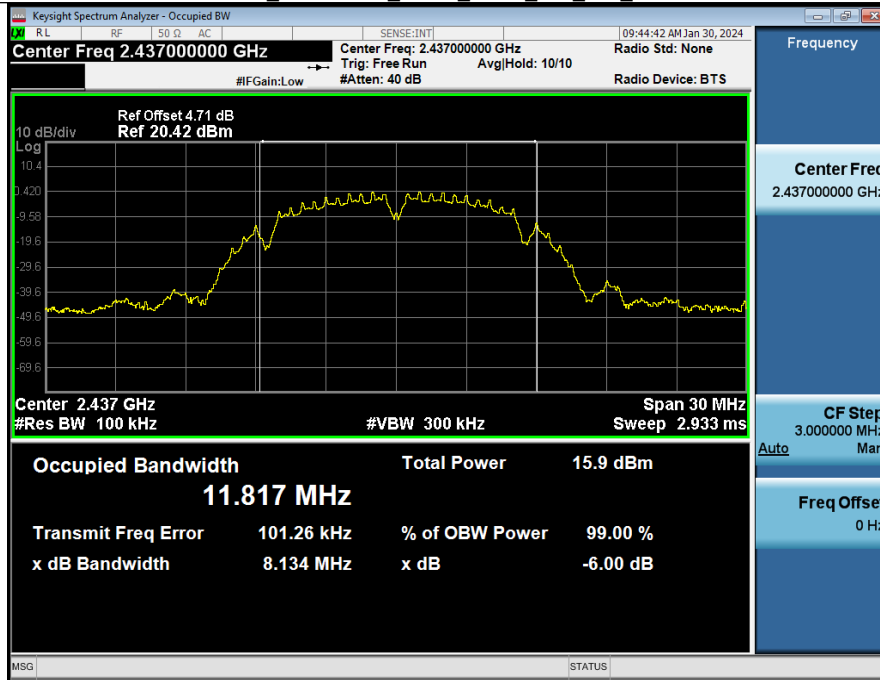
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.60	500	Pass
NVNT	ANT1	802.11b	2437.00	8.13	500	Pass
NVNT	ANT1	802.11b	2462.00	8.60	500	Pass
NVNT	ANT1	802.11g	2412.00	15.76	500	Pass
NVNT	ANT1	802.11g	2437.00	16.10	500	Pass
NVNT	ANT1	802.11g	2462.00	15.77	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.69	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.02	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.23	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.64	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.59	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.22	500	Pass



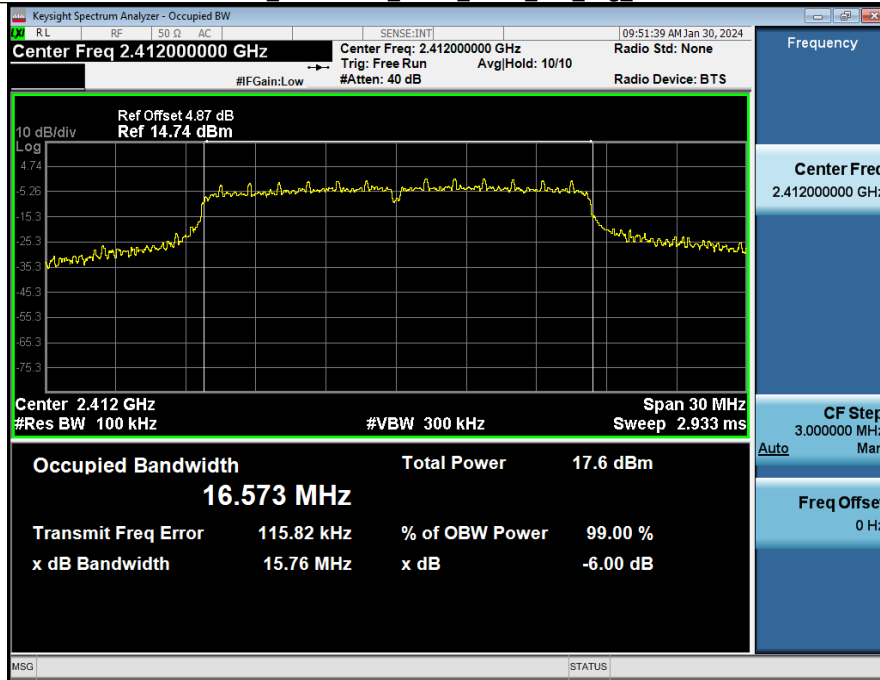
-6dB Bandwidth_NVNT_ANT1_802_11b_2437



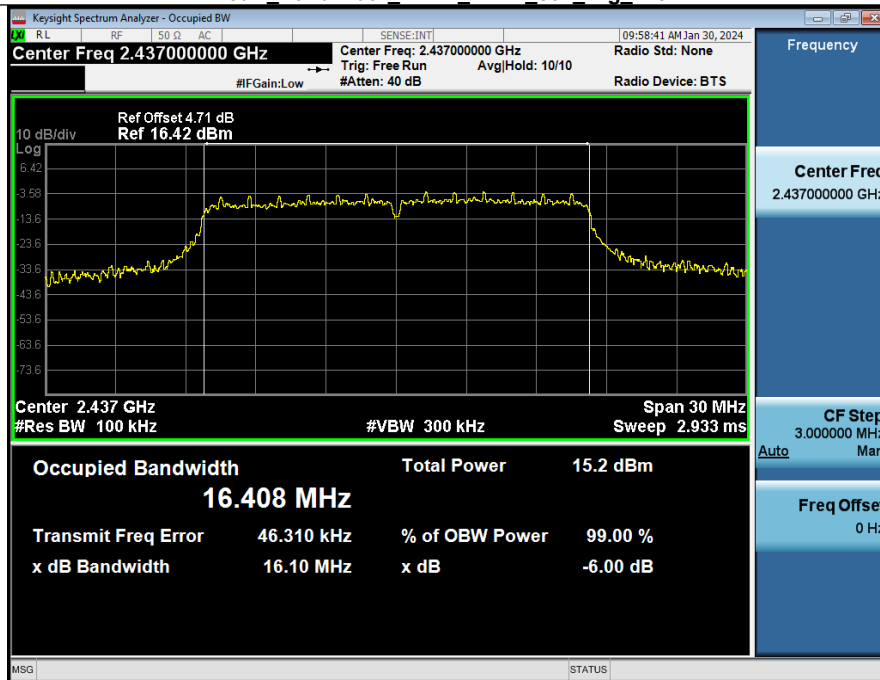
-6dB Bandwidth_NVNT_ANT1_802_11b_2462



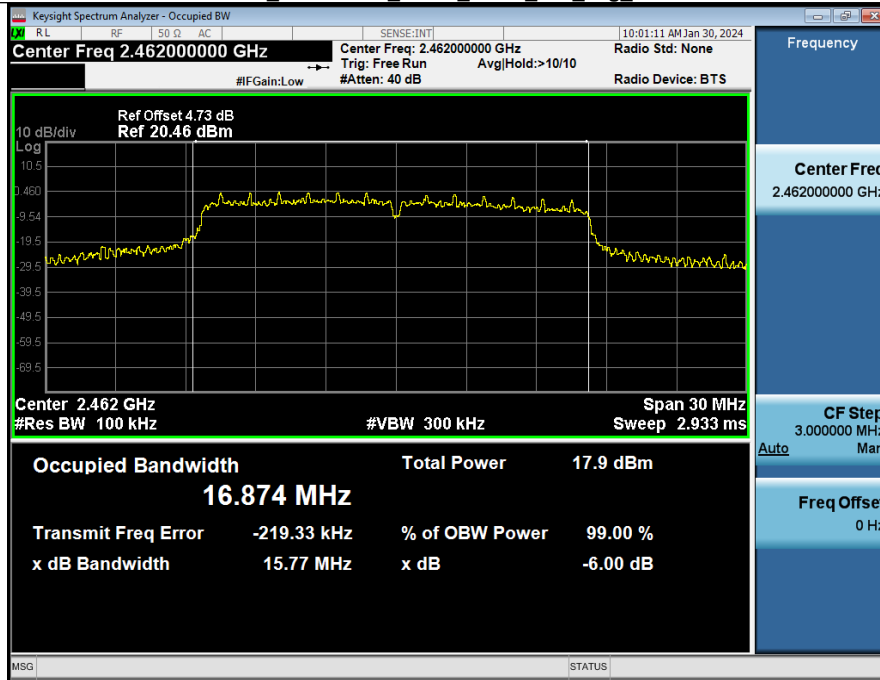
-6dB Bandwidth_NVNT_ANT1_802_11g_2412



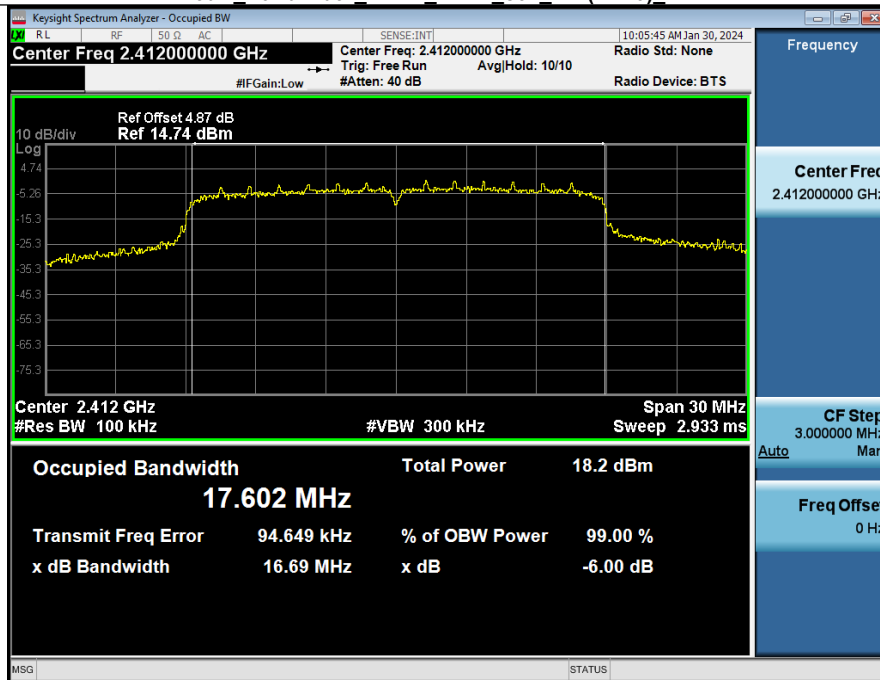
-6dB Bandwidth_NVNT_ANT1_802_11g_2437



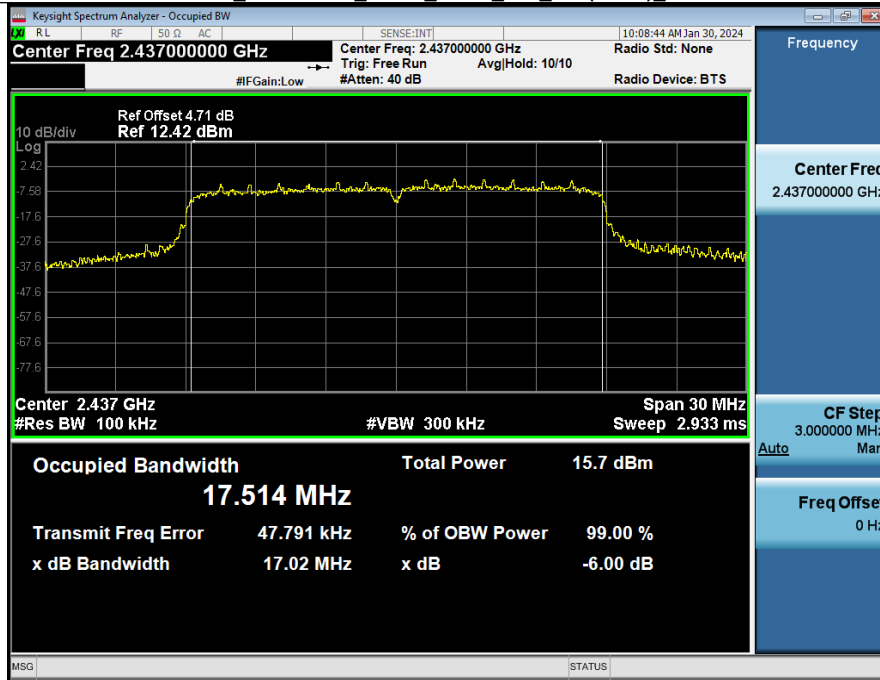
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



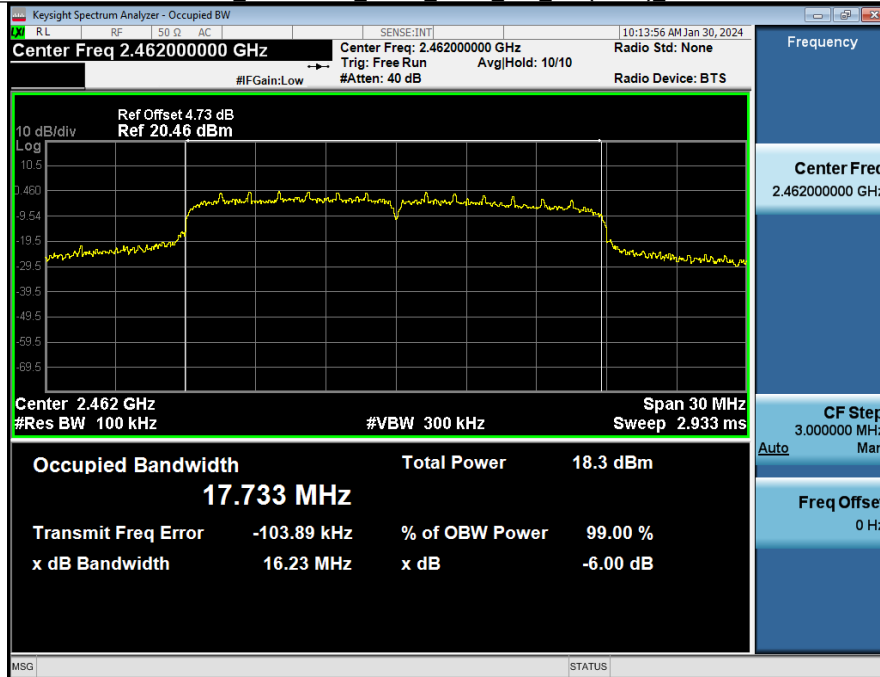
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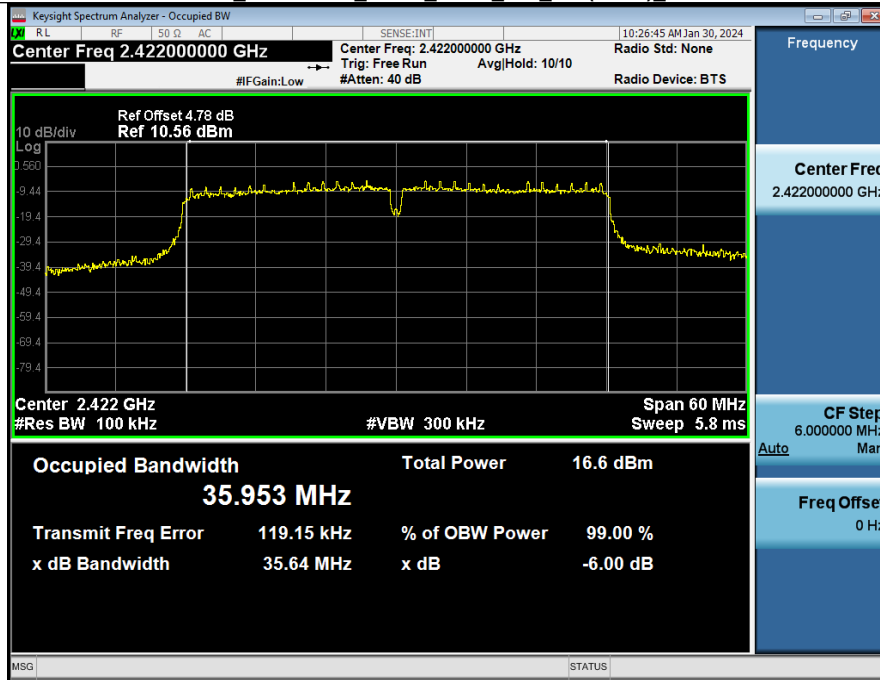
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



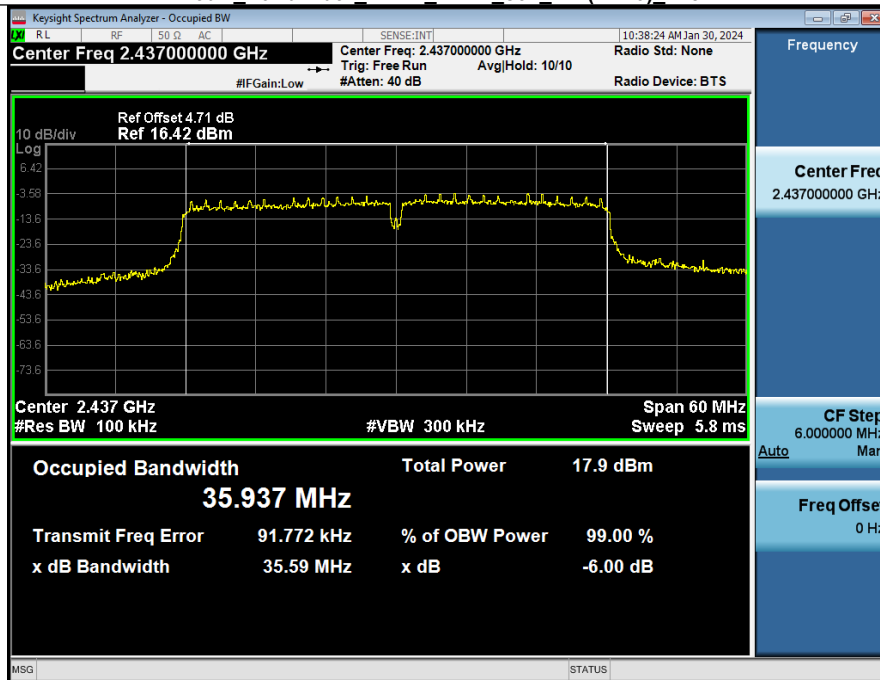
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



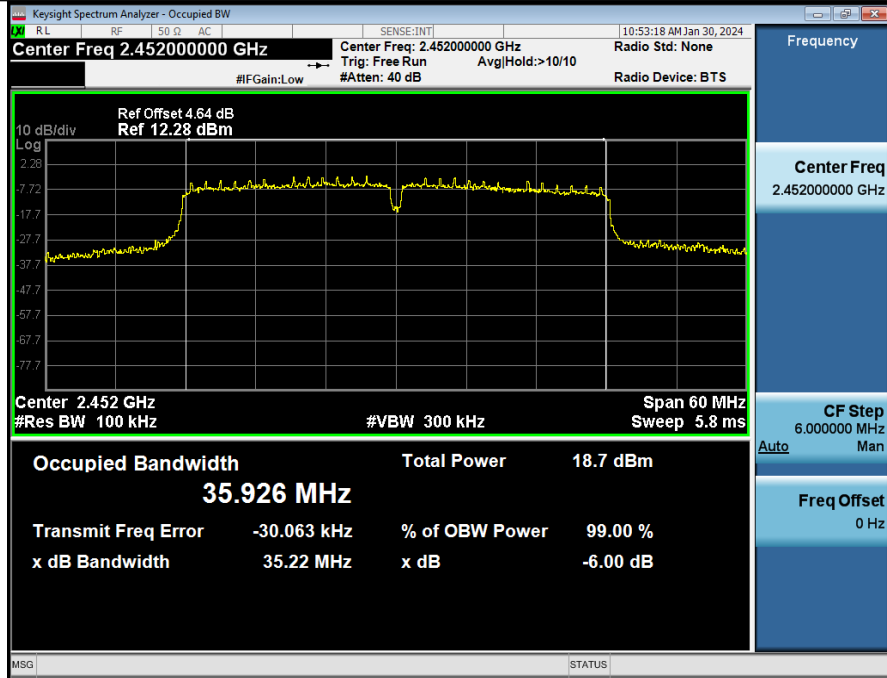
-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2422



-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2437

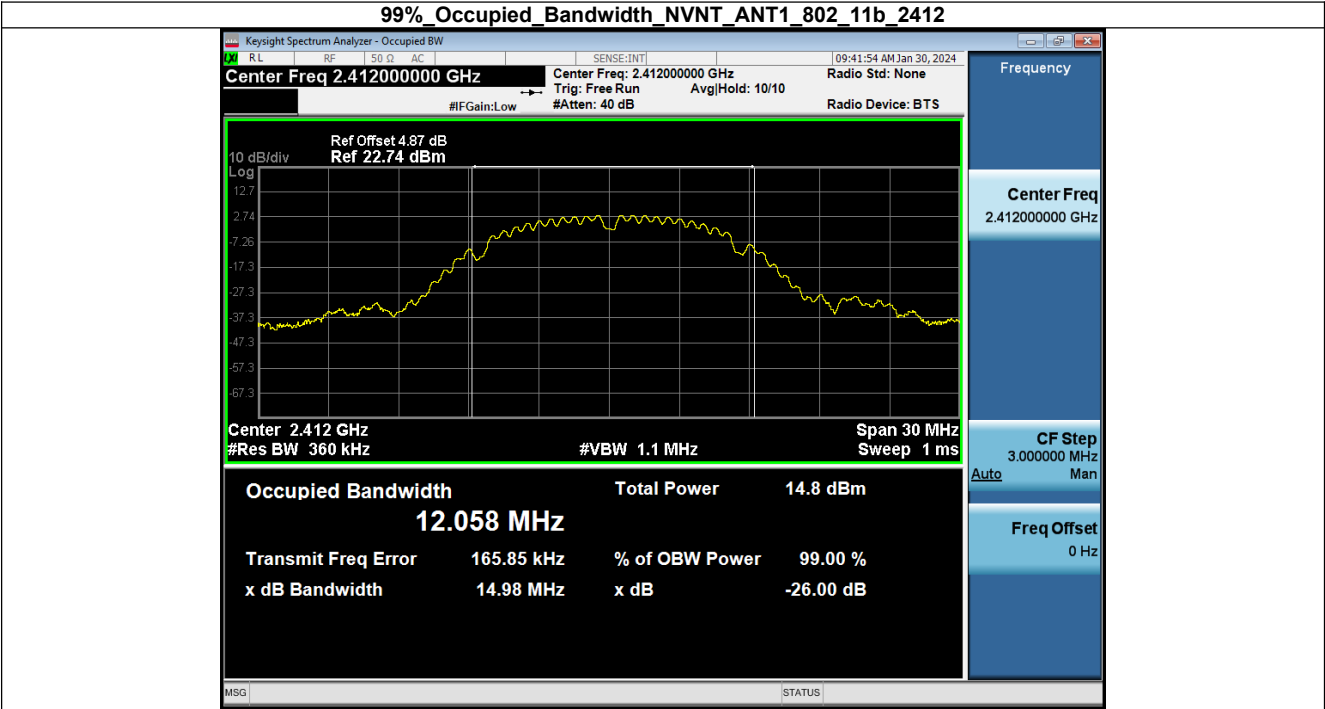


-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2452

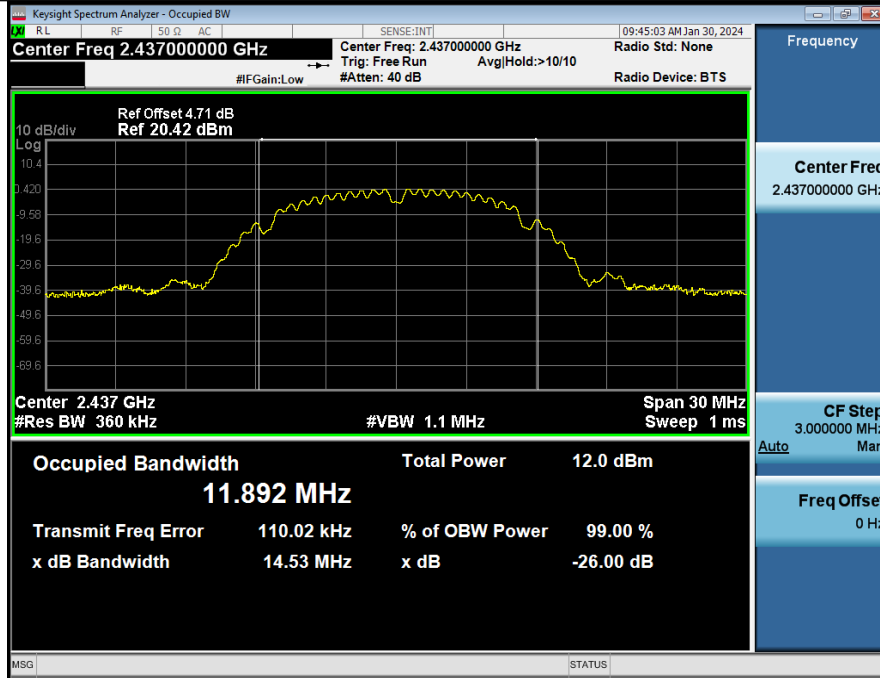


2. 99% Occupied Bandwidth

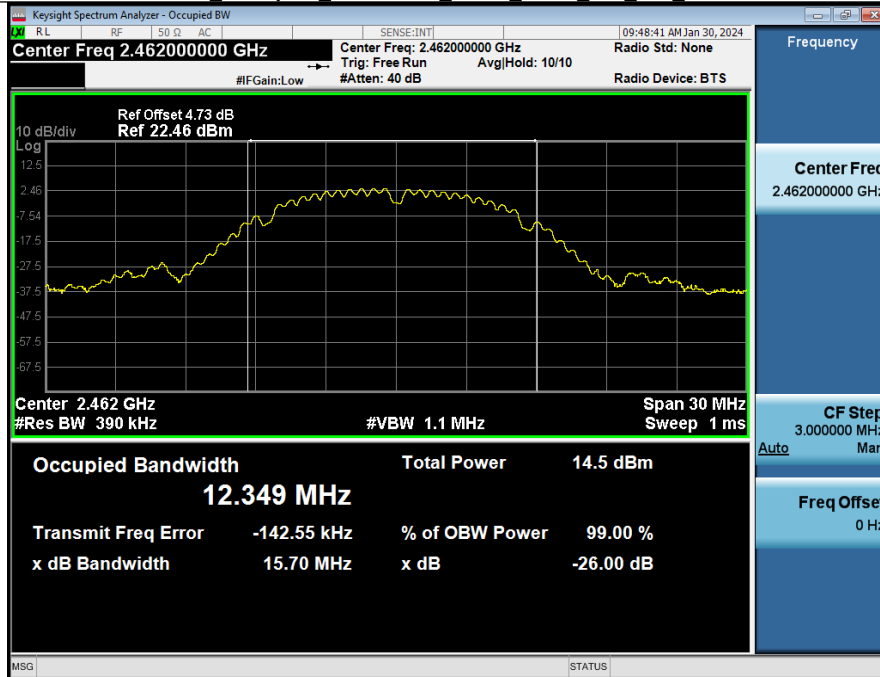
Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.058
NVNT	ANT1	802.11b	2437.00	11.892
NVNT	ANT1	802.11b	2462.00	12.349
NVNT	ANT1	802.11g	2412.00	18.018
NVNT	ANT1	802.11g	2437.00	17.079
NVNT	ANT1	802.11g	2462.00	18.303
NVNT	ANT1	802.11n(HT20)	2412.00	18.176
NVNT	ANT1	802.11n(HT20)	2437.00	17.867
NVNT	ANT1	802.11n(HT20)	2462.00	18.567
NVNT	ANT1	802.11n(HT40)	2422.00	36.518
NVNT	ANT1	802.11n(HT40)	2437.00	36.431
NVNT	ANT1	802.11n(HT40)	2452.00	36.341



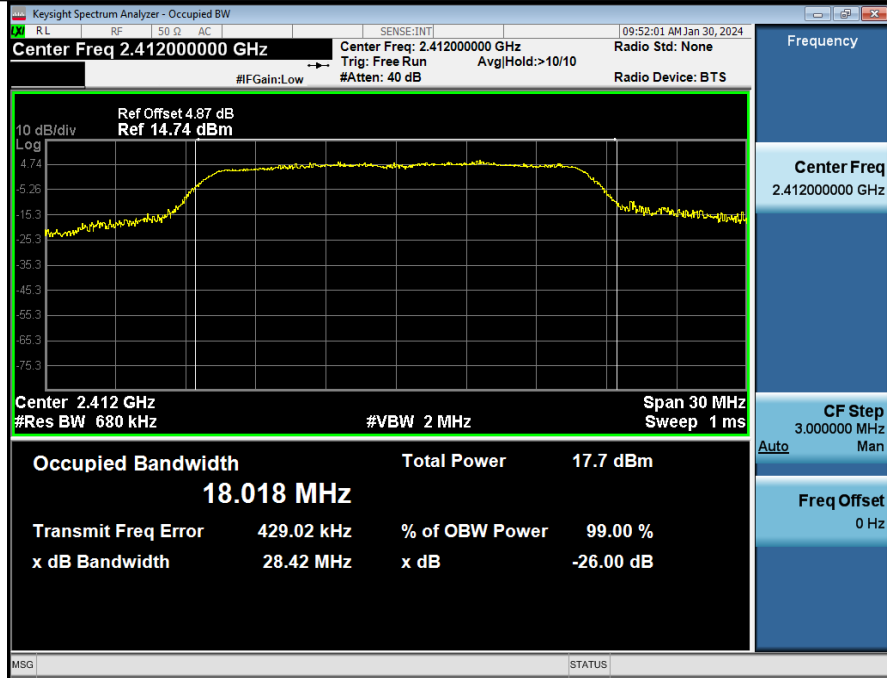
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



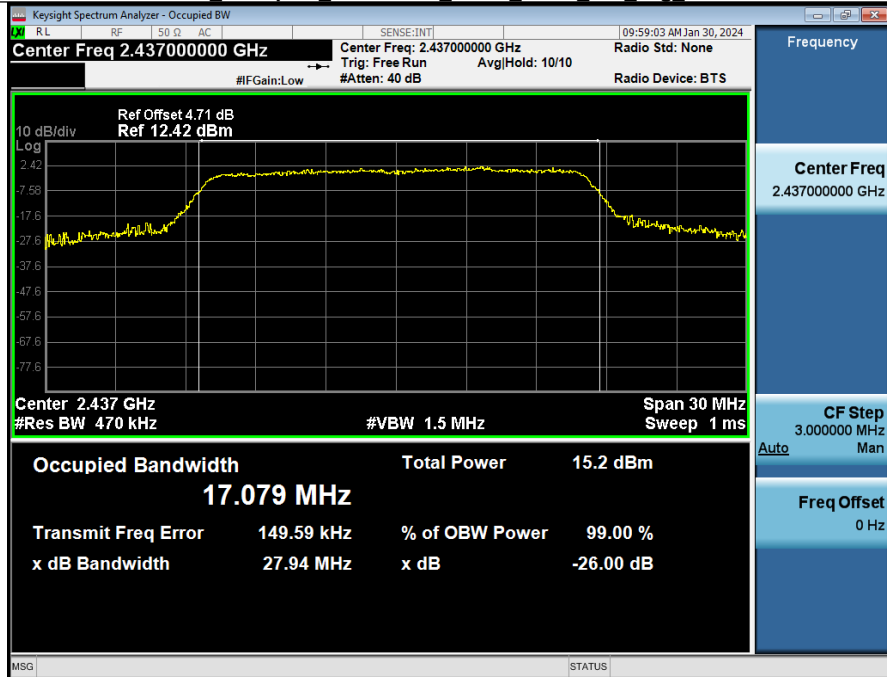
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



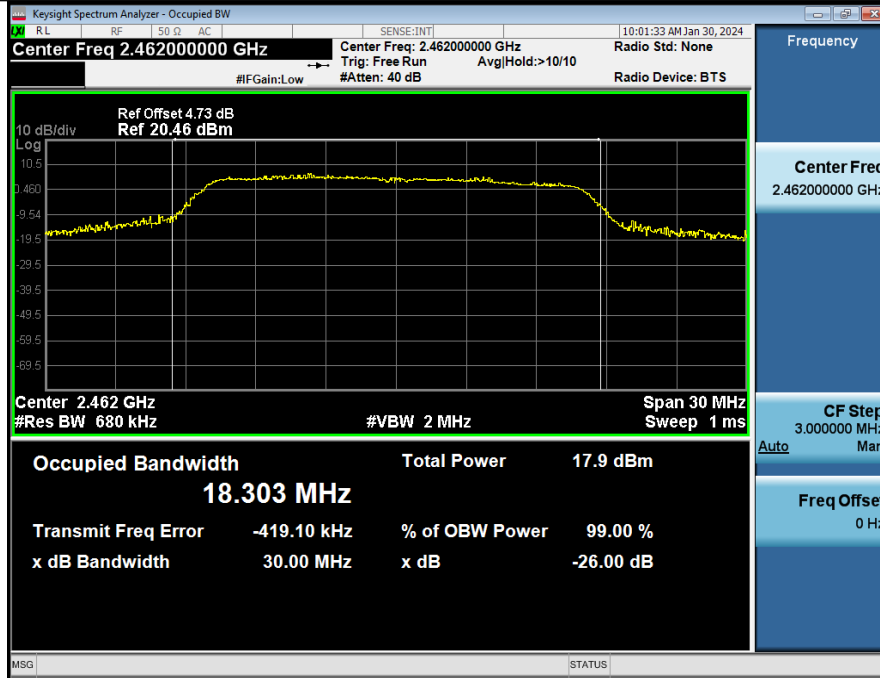
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



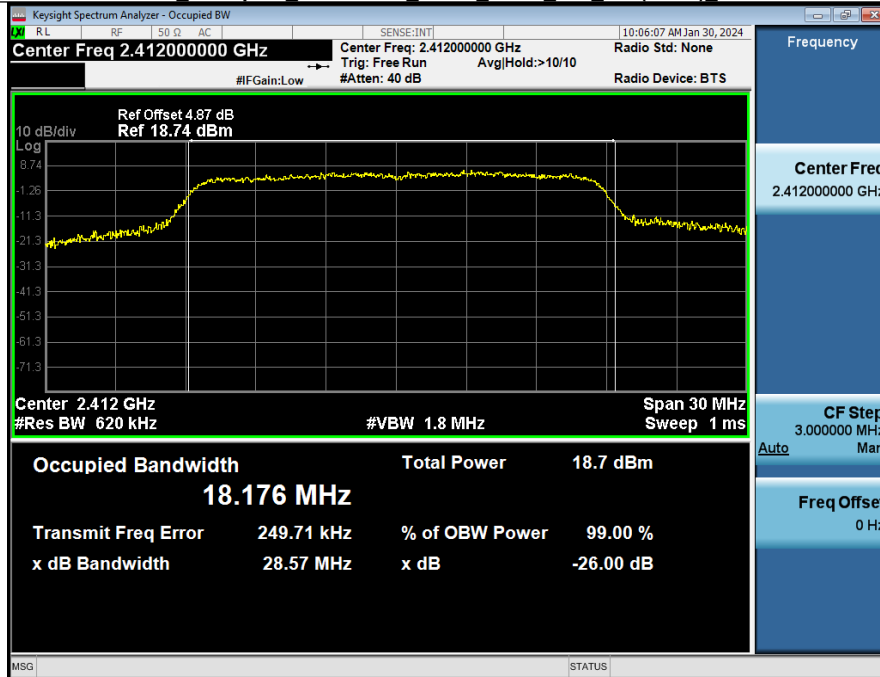
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



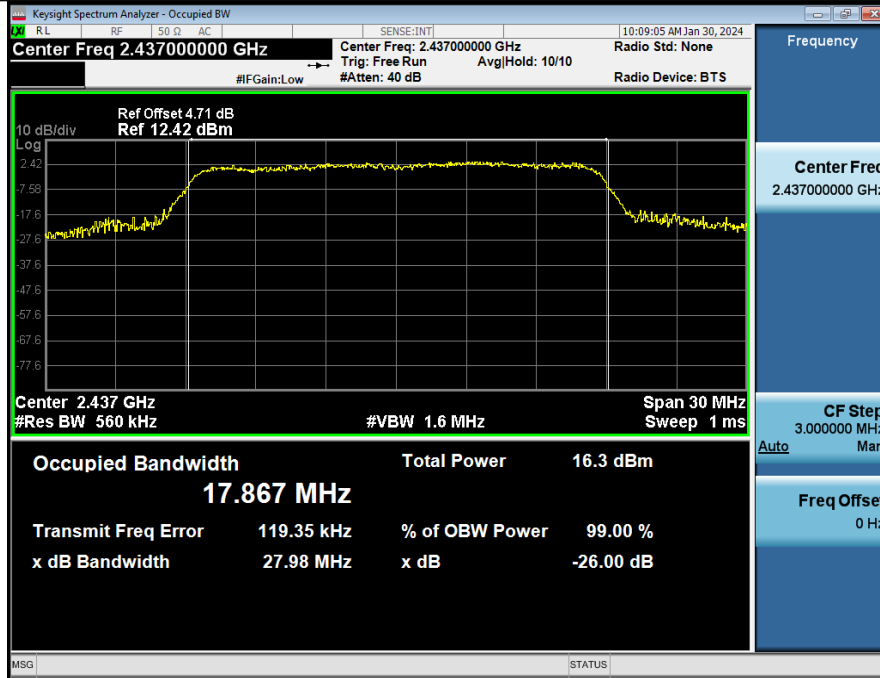
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462



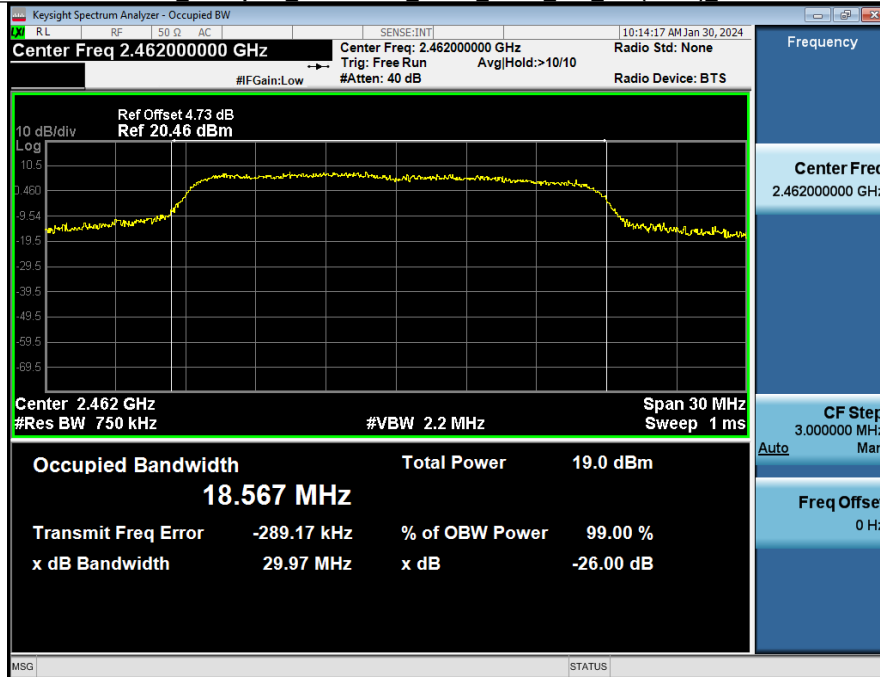
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20) 2412



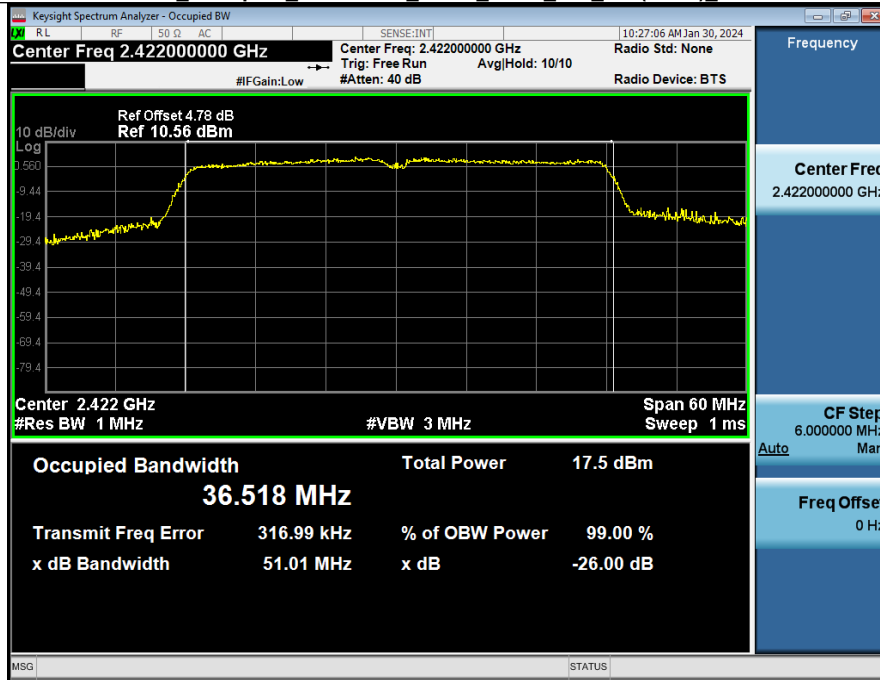
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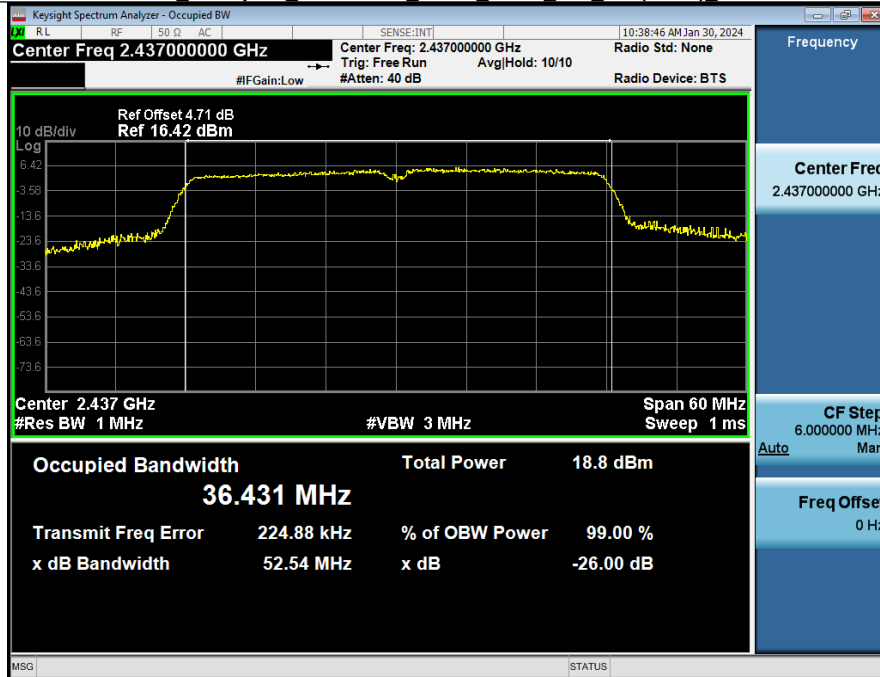
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462

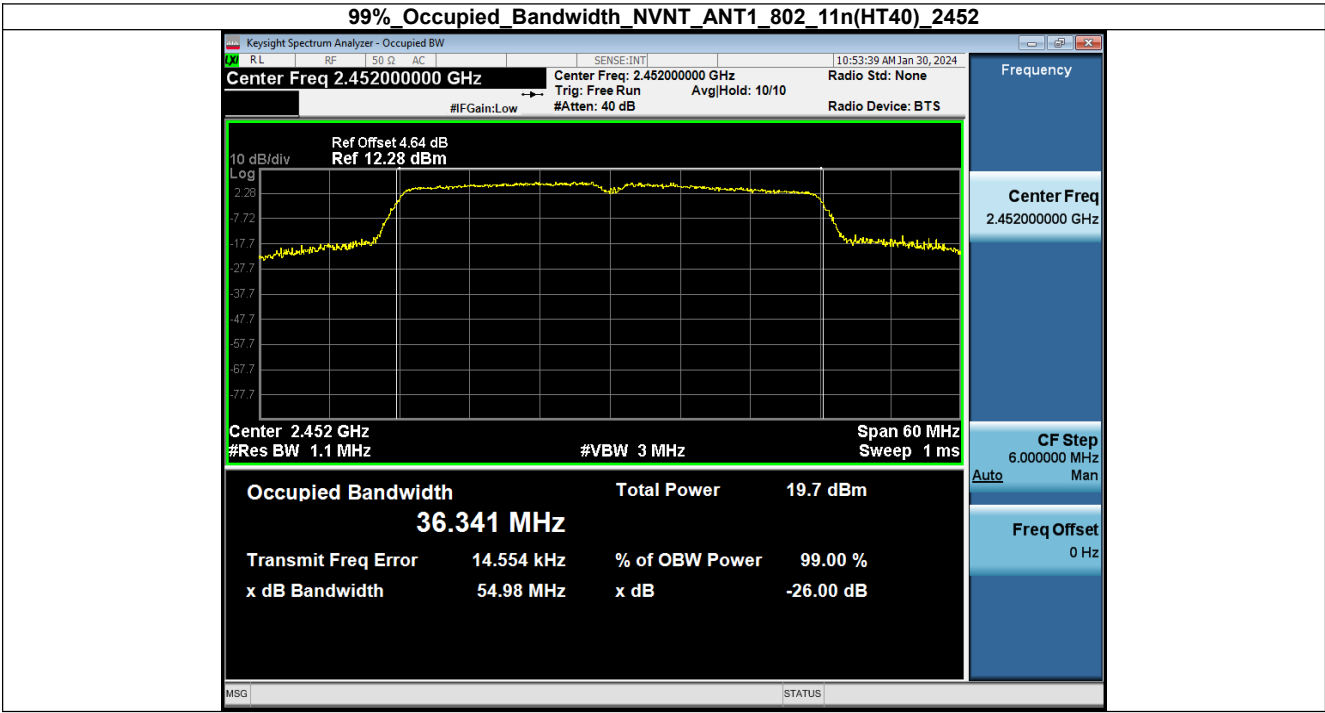


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



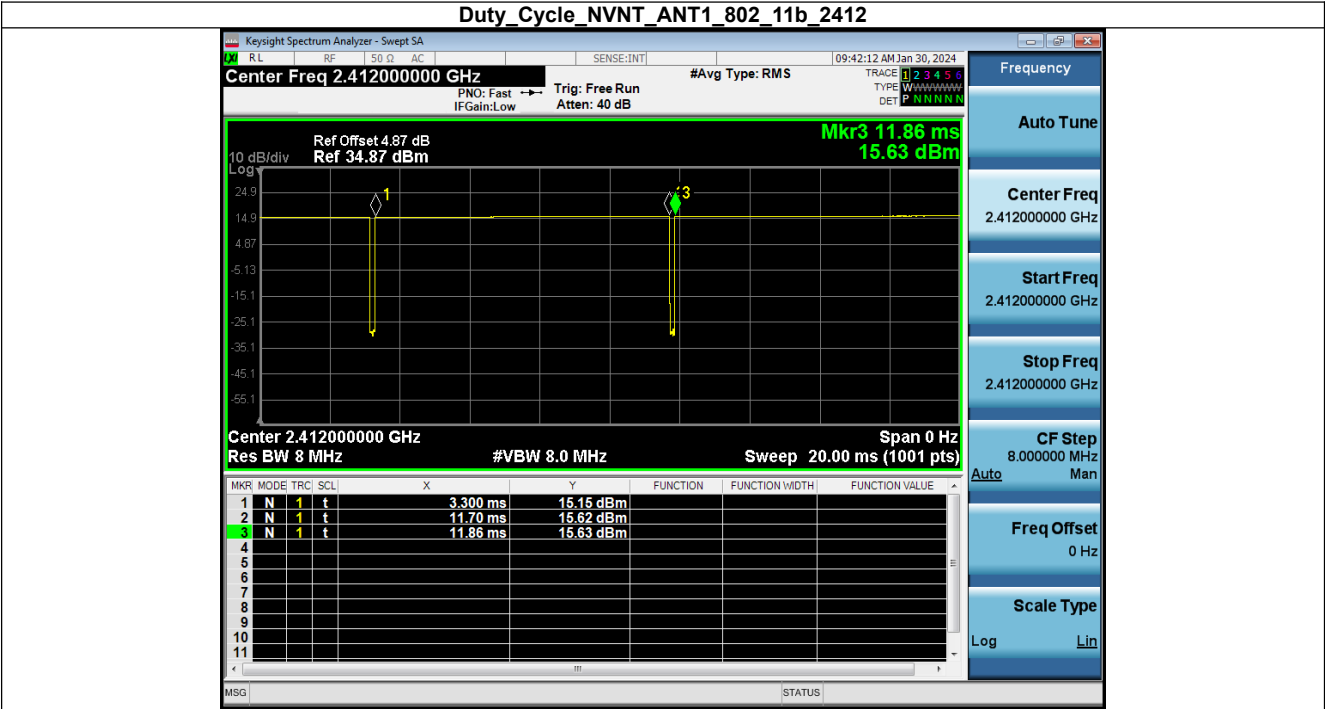
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437



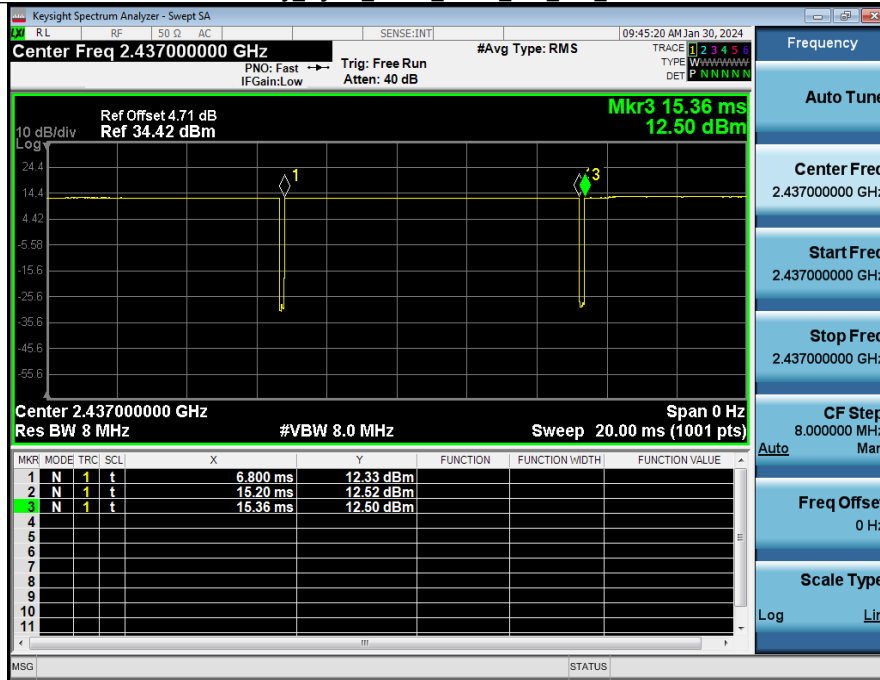


3. Duty Cycle

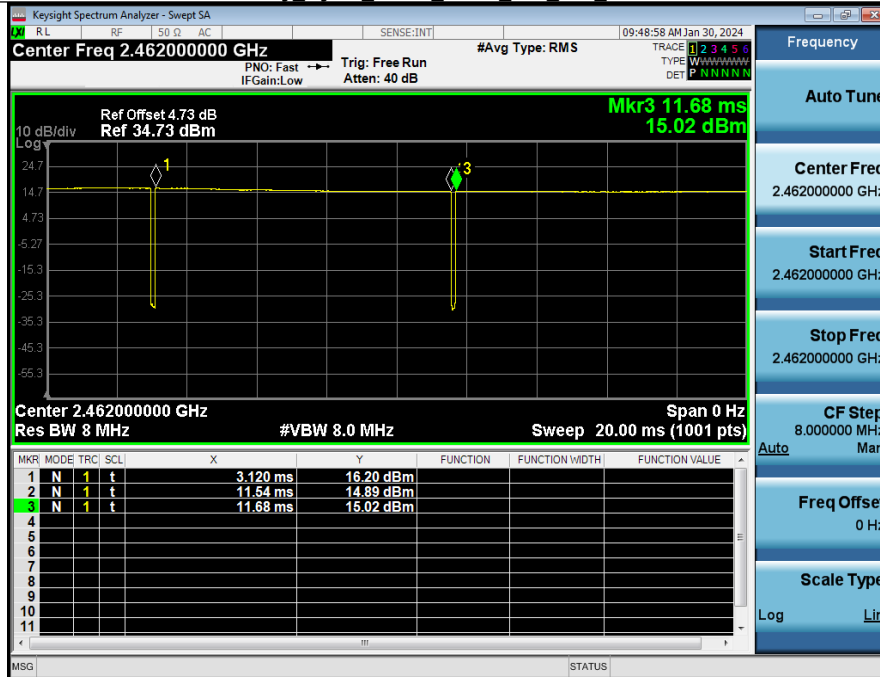
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.36	0.00
NVNT	ANT1	802.11b	2437.00	98.36	0.00
NVNT	ANT1	802.11b	2462.00	98.60	0.00
NVNT	ANT1	802.11g	2412.00	90.91	0.41
NVNT	ANT1	802.11g	2437.00	90.91	0.41
NVNT	ANT1	802.11g	2462.00	92.21	0.35
NVNT	ANT1	802.11n(HT20)	2412.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2437.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2462.00	90.91	0.41
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	83.78	0.77



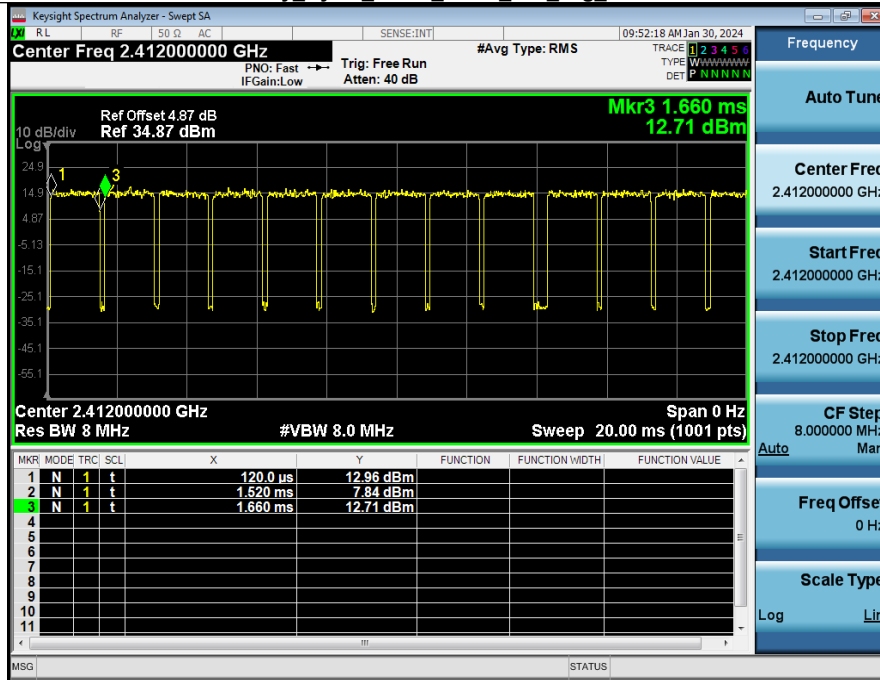
Duty Cycle NVNT ANT1_802_11b_2437



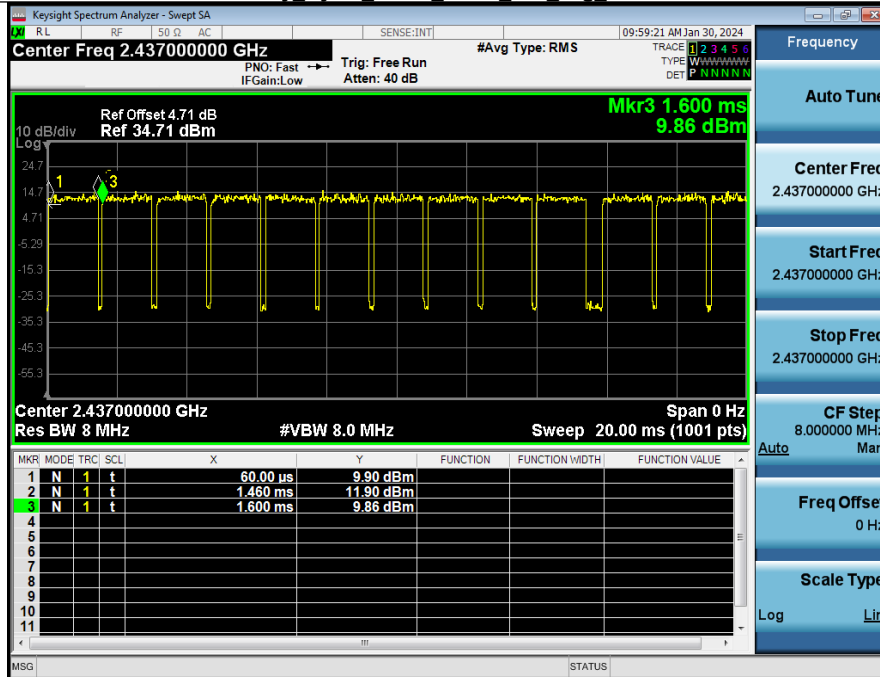
Duty Cycle NVNT ANT1_802_11b_2462



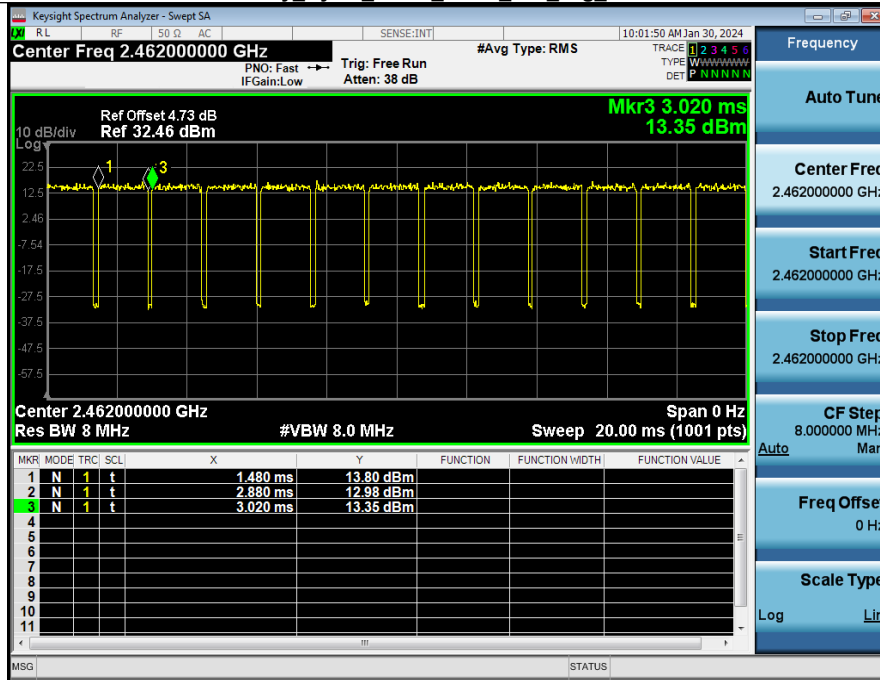
Duty Cycle NVNT ANT1_802_11g_2412



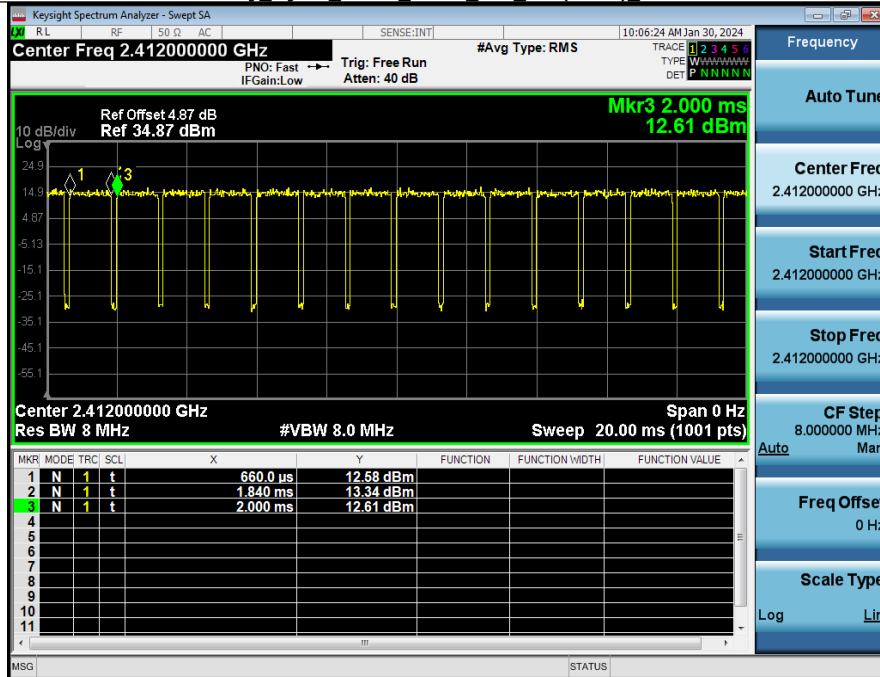
Duty Cycle NVNT ANT1_802_11g_2437



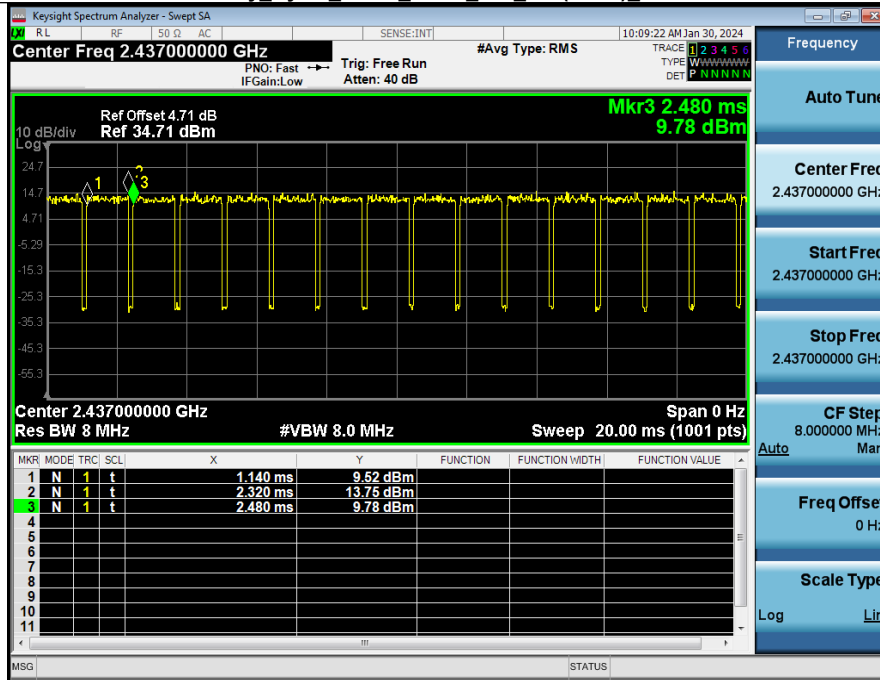
Duty Cycle NVNT ANT1_802_11g_2462



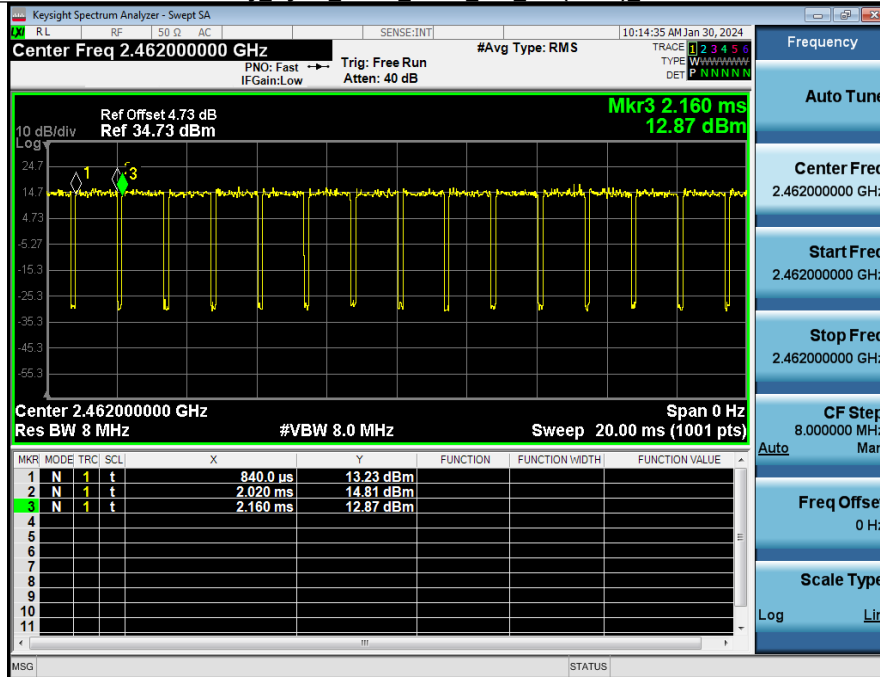
Duty Cycle NVNT ANT1_802_11n(HT20)_2412



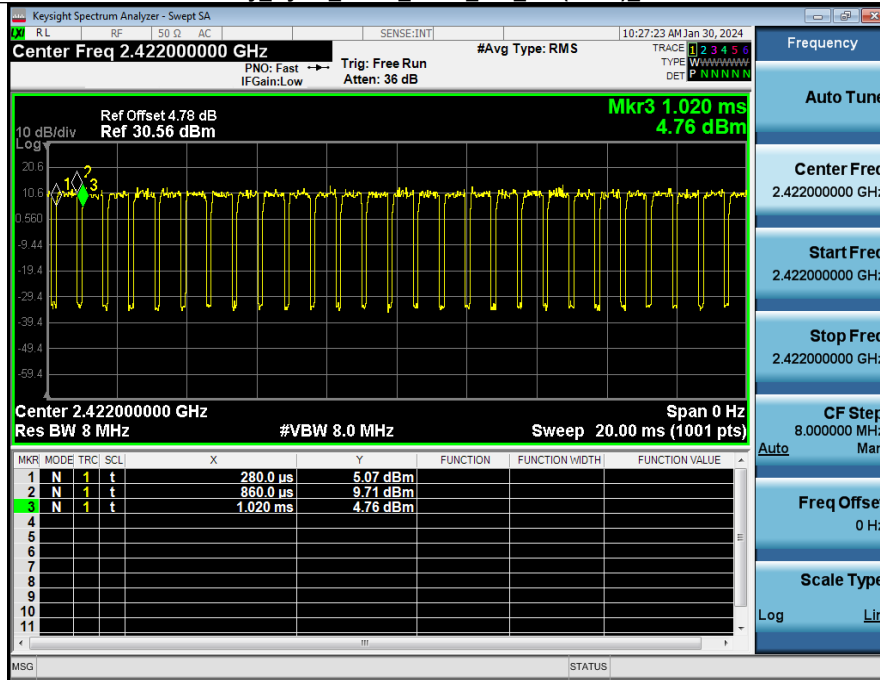
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



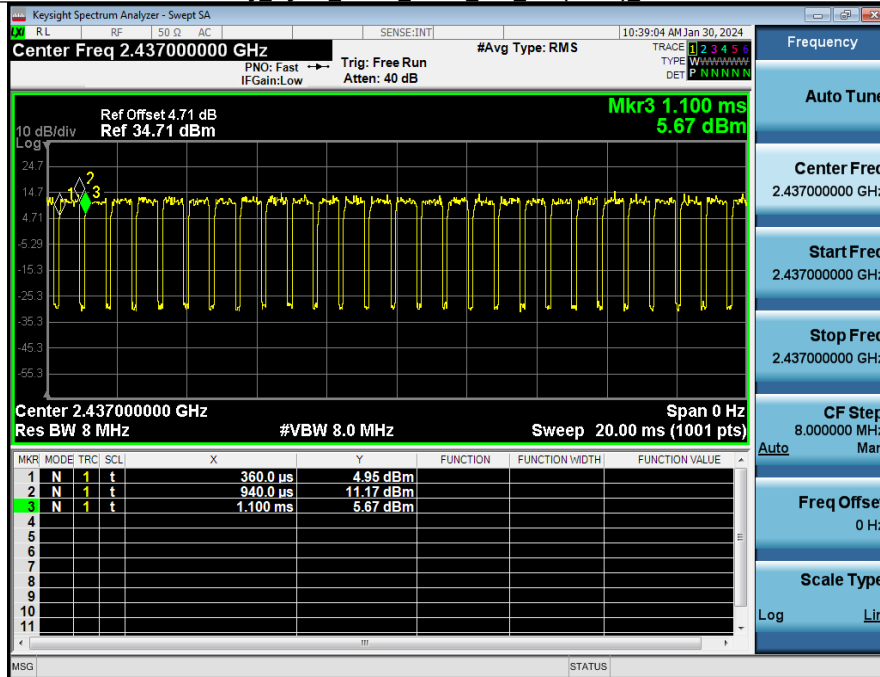
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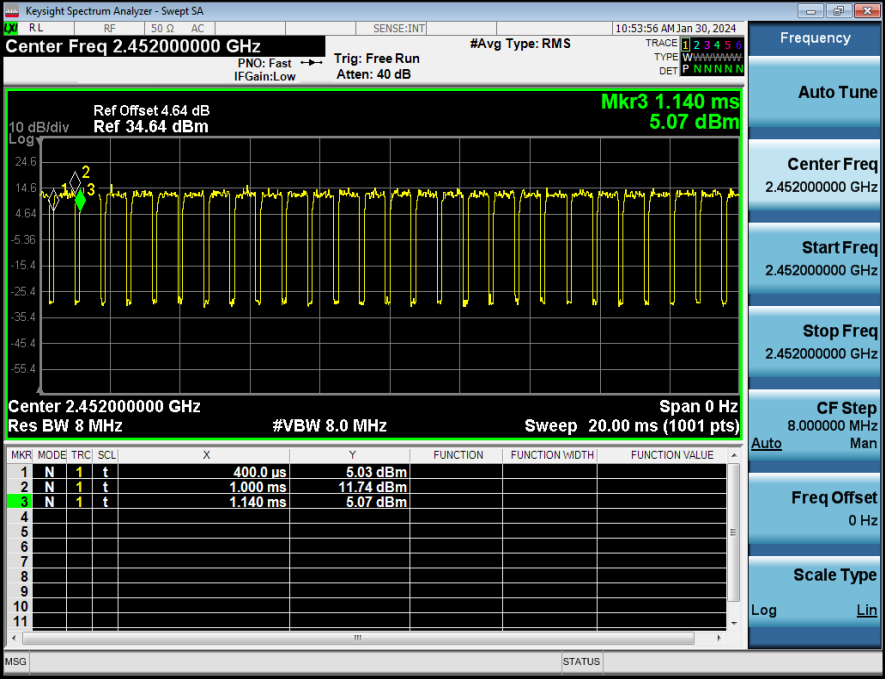
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



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	-0.80	-10.00	-10.80	8	Pass
NVNT	ANT1	802.11b	2437.00	-3.67	-10.00	-13.67	8	Pass
NVNT	ANT1	802.11b	2462.00	-0.43	-10.00	-10.43	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.41	-10.00	-14.41	8	Pass
NVNT	ANT1	802.11g	2437.00	-7.49	-10.00	-17.49	8	Pass
NVNT	ANT1	802.11g	2462.00	-4.24	-10.00	-14.24	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.87	-10.00	-14.87	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-7.38	-10.00	-17.38	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.65	-10.00	-14.65	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-9.89	-10.00	-19.89	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-8.39	-10.00	-18.39	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-7.41	-10.00	-17.41	8	Pass



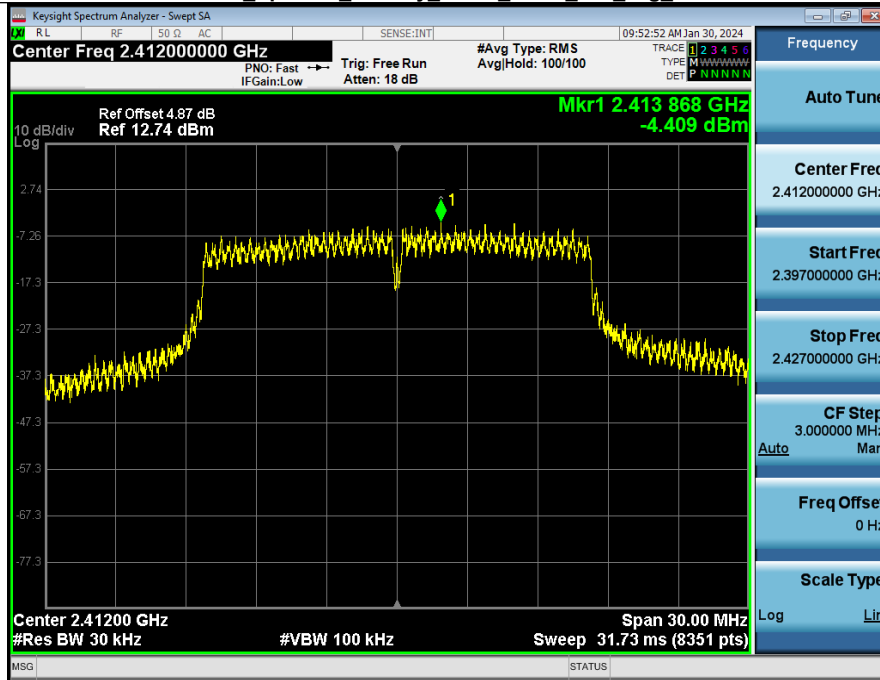
Power Spectral Density NVNT_ANT1_802_11b_2437



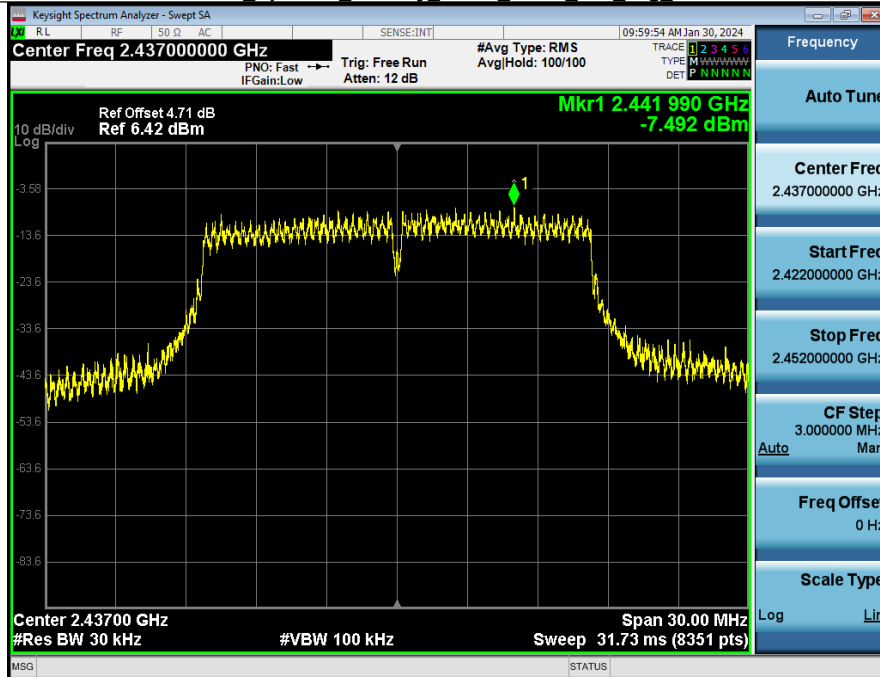
Power Spectral Density NVNT_ANT1_802_11b_2462



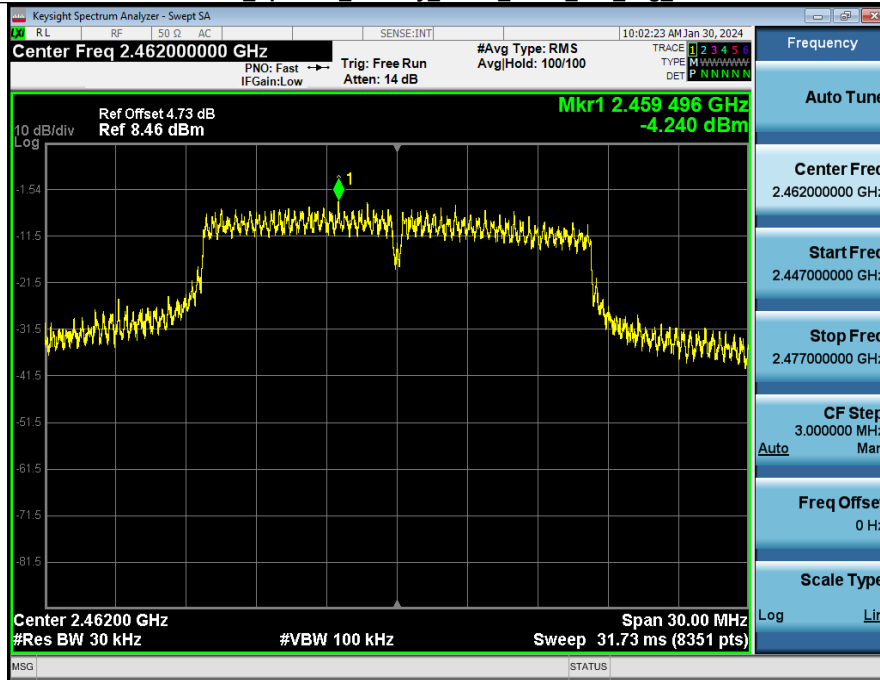
Power Spectral Density NVNT_ANT1_802_11g_2412



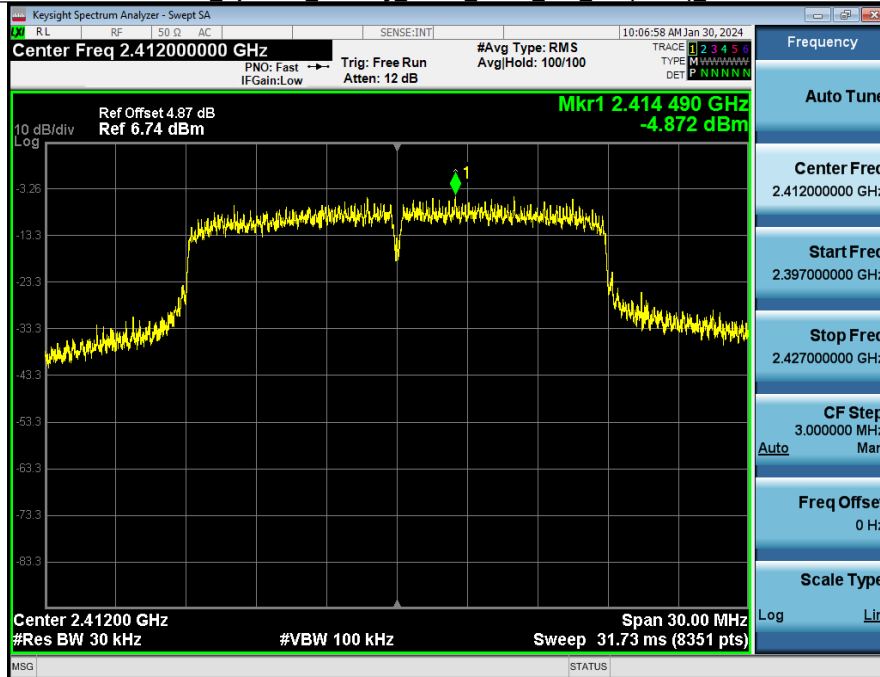
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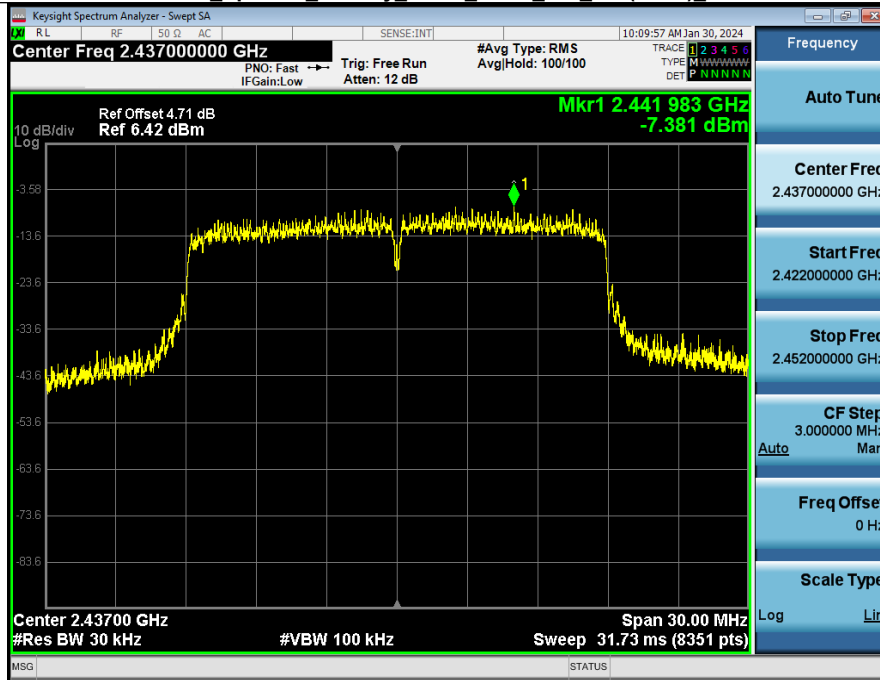
Power Spectral Density NVNT_ANT1_802_11g_2462



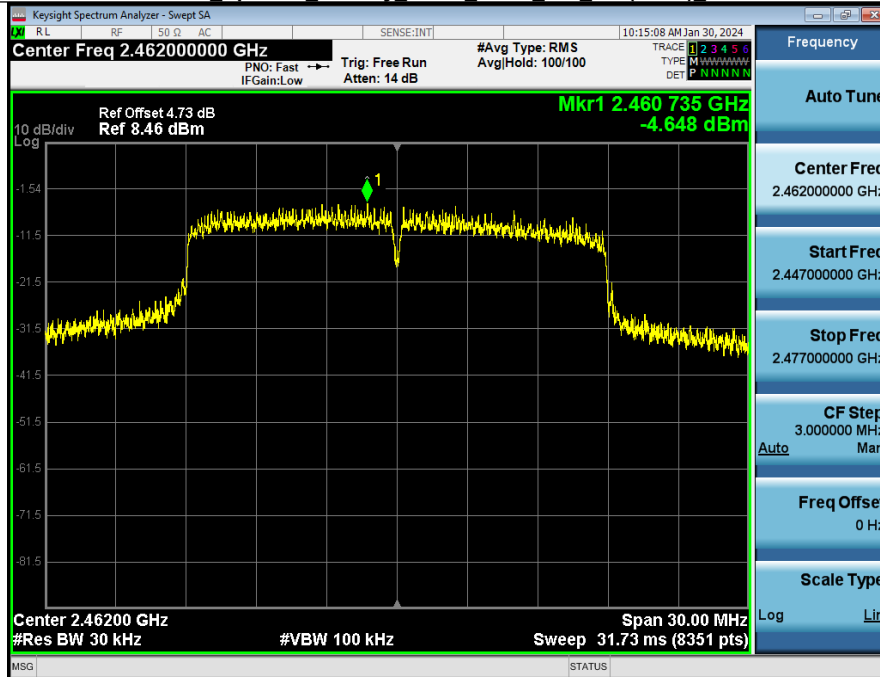
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



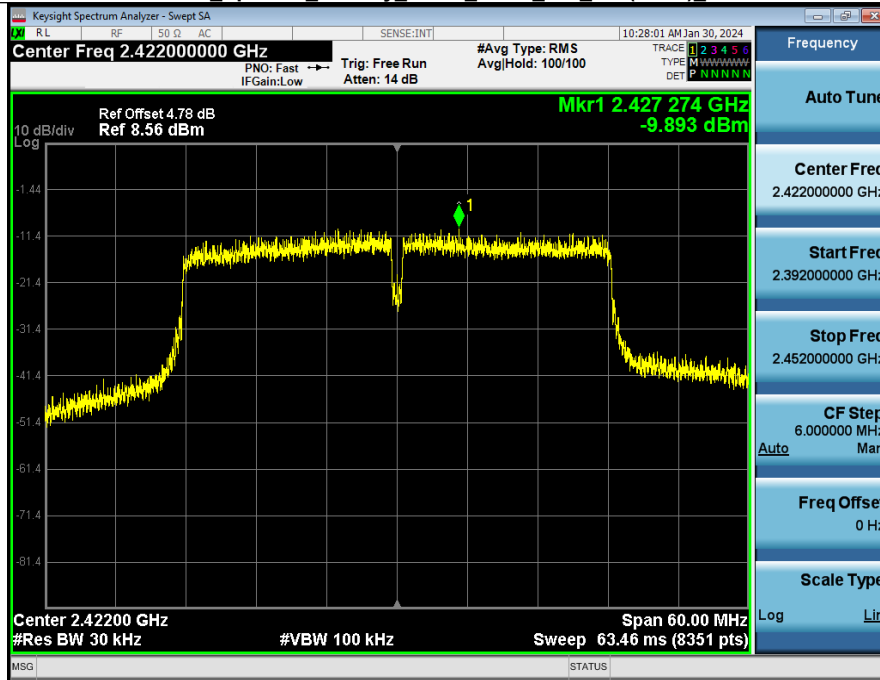
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437



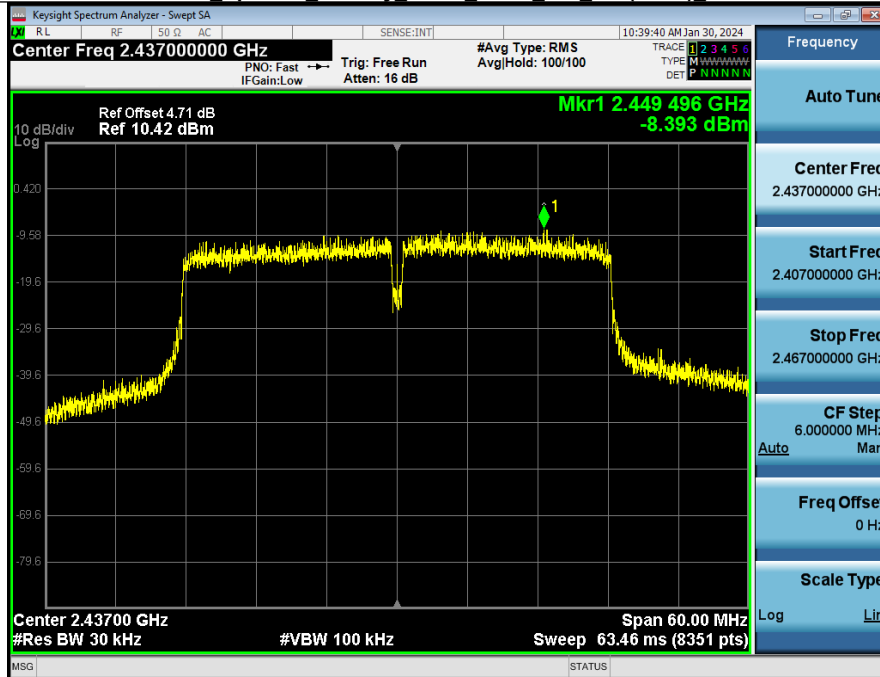
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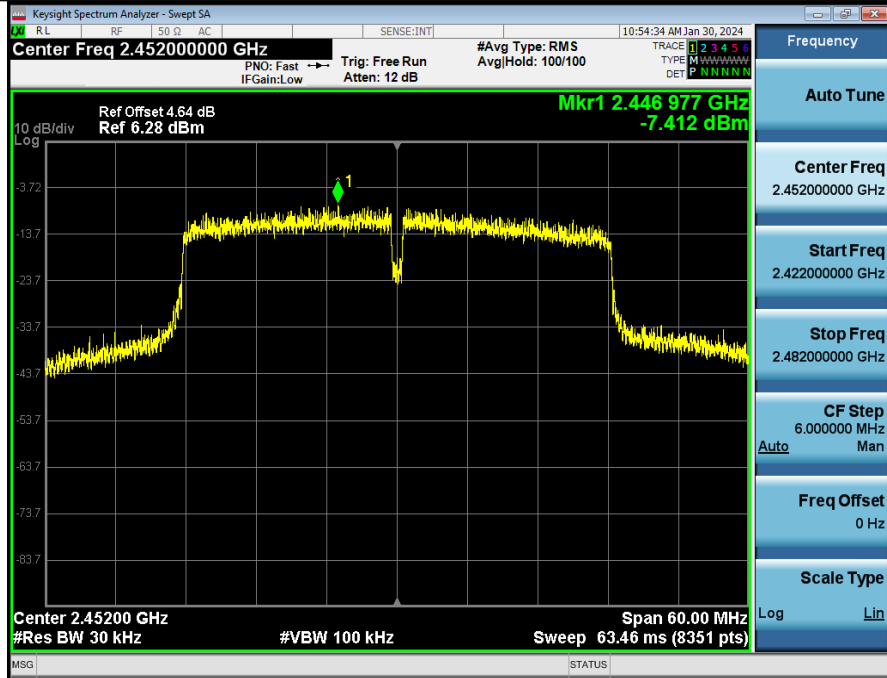
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437

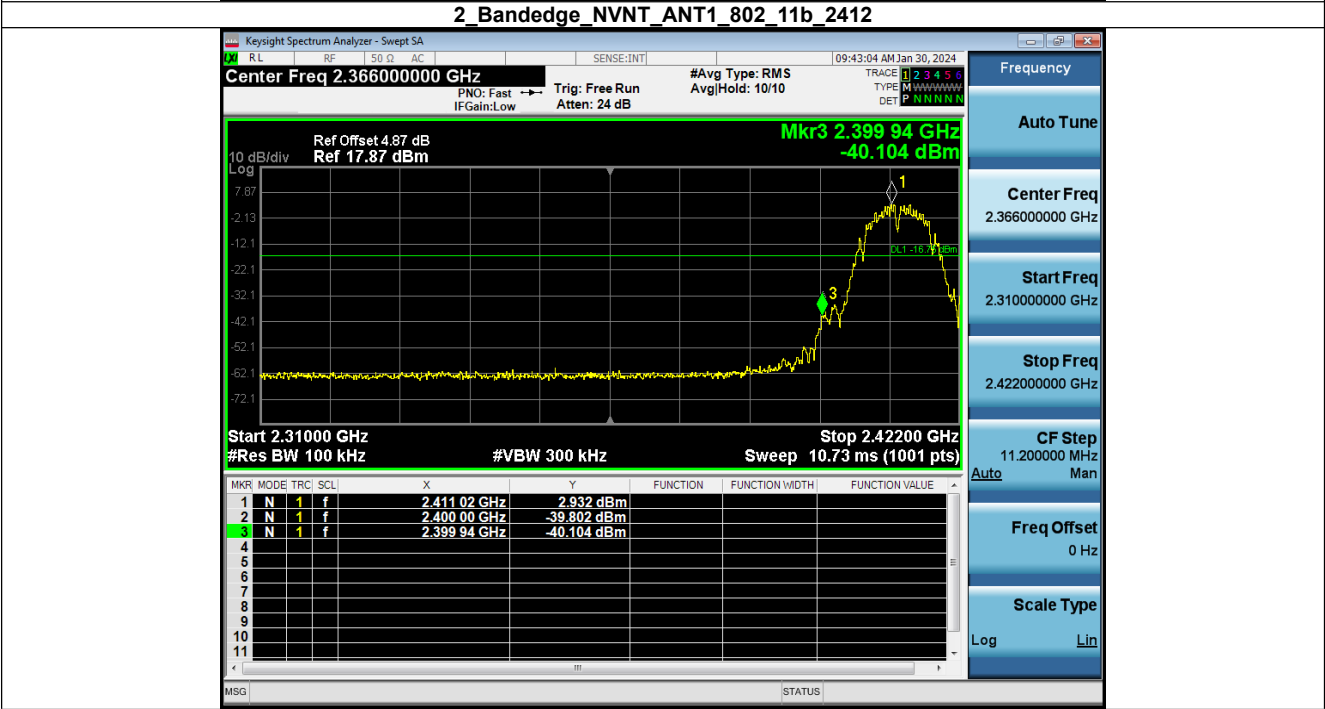


Power Spectral Density NVNT_ANT1_802_11n(HT40)_2452

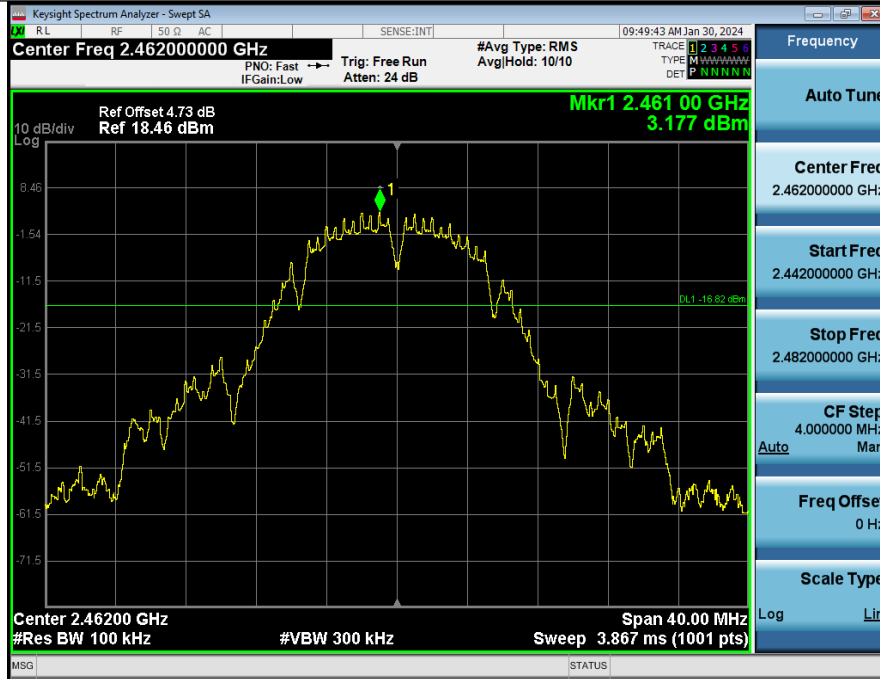


6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-40.104	-16.750	Pass
NVNT	ANT1	802.11b	2462.00	2487.040	-59.062	-16.823	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-29.927	-19.932	Pass
NVNT	ANT1	802.11g	2462.00	2483.584	-39.766	-19.877	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-27.805	-20.614	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-36.264	-19.930	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-35.907	-25.068	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.884	-33.913	-22.111	Pass



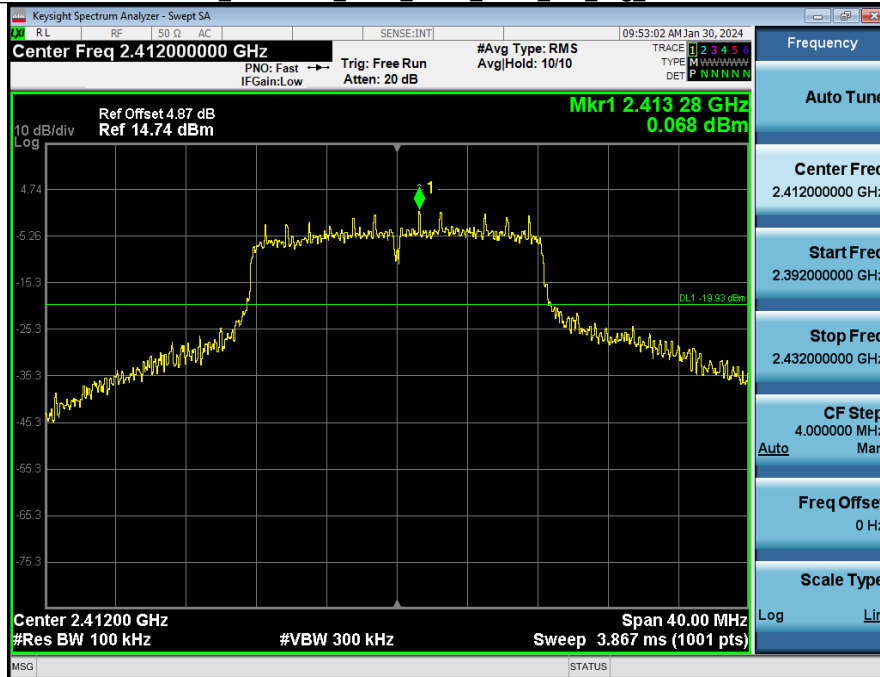
1_Reference_Level_NVNT_ANT1_802_11b_2462



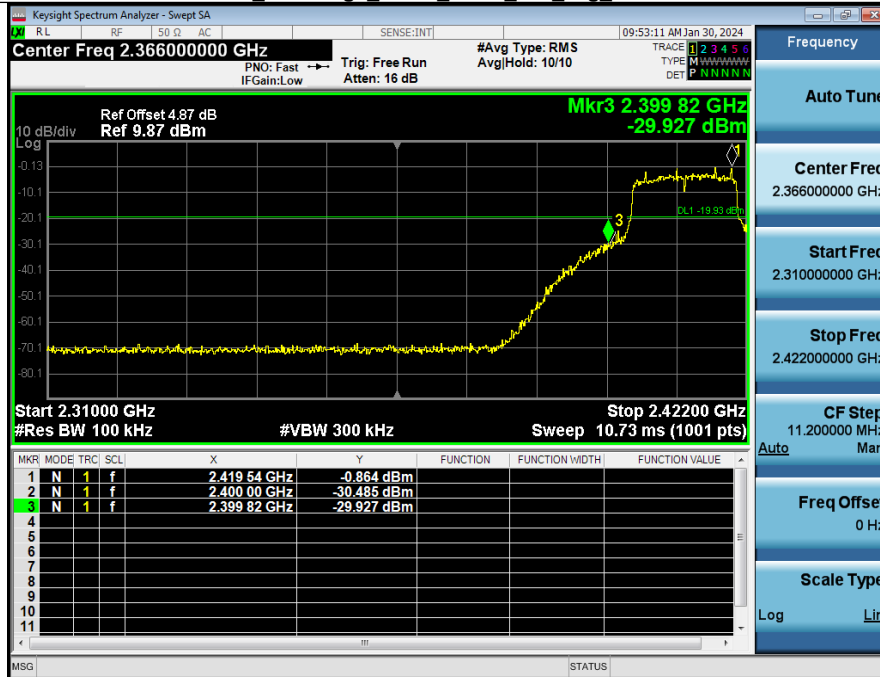
2_Bandedge_NVNT_ANT1_802_11b_2462



1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



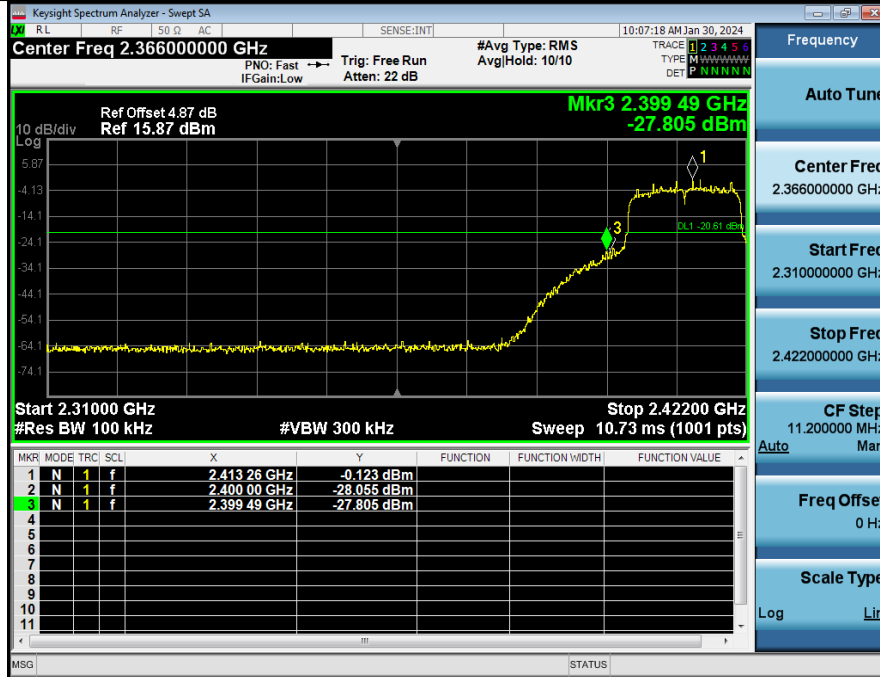
2_Bandedge_NVNT_ANT1_802_11g_2462



1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge NVNT_ANT1_802_11n(HT20)_2412



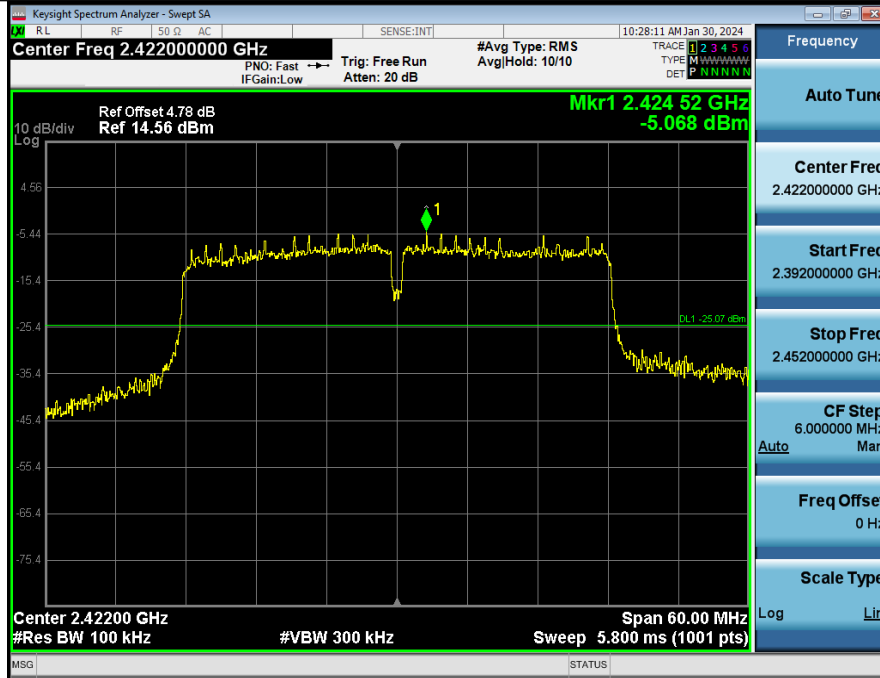
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



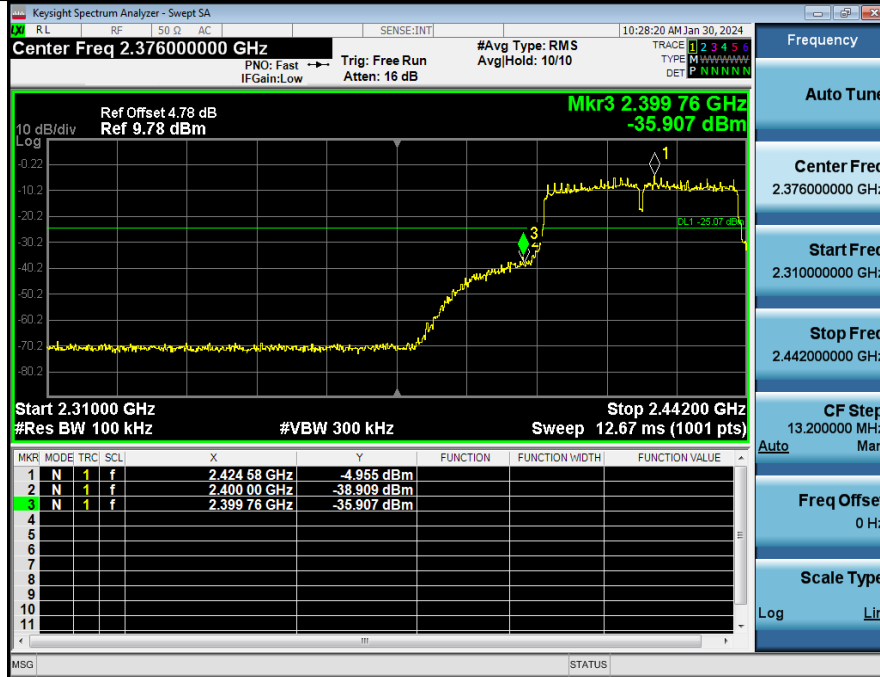
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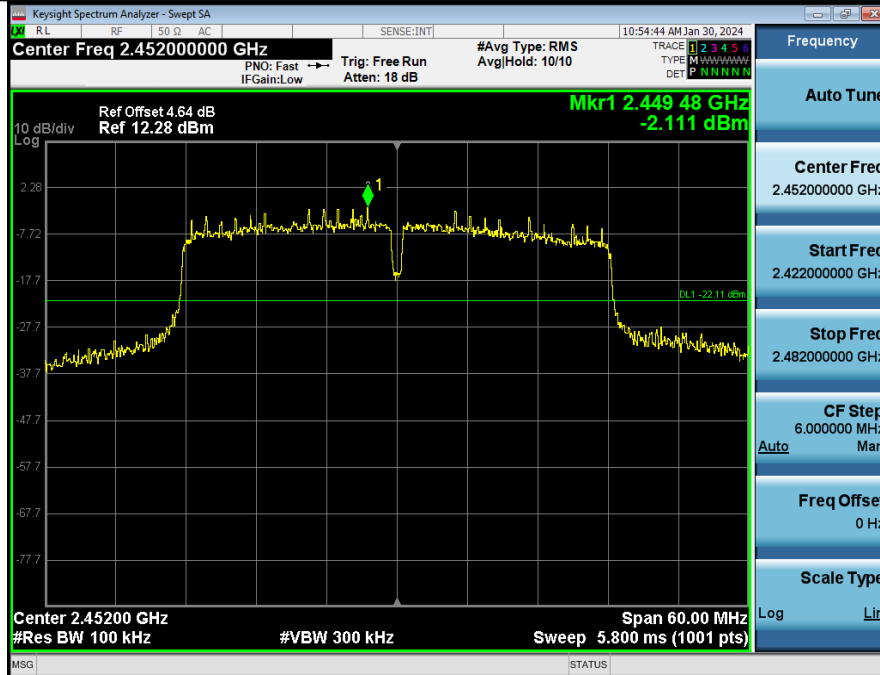
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



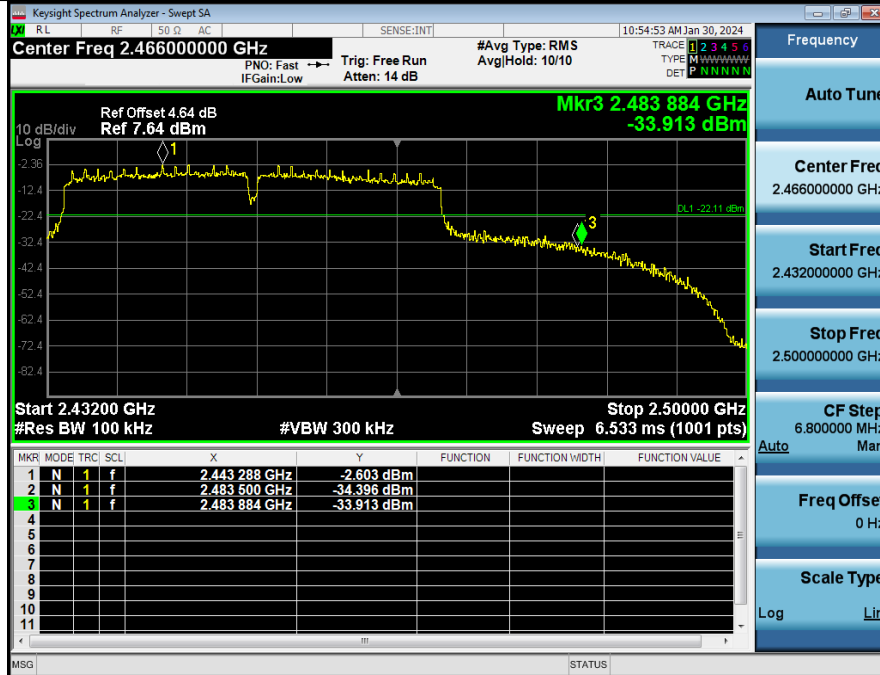
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452



2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



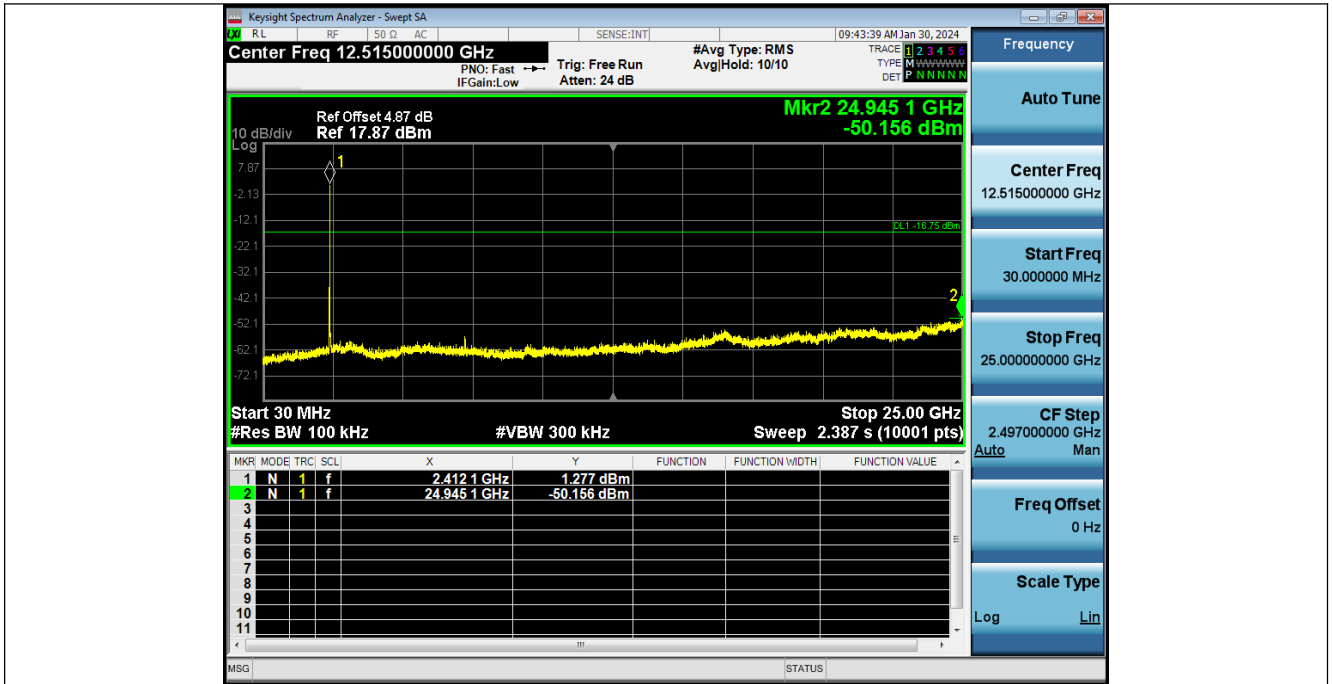
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24945.066	-50.156	-16.750	Pass
NVNT	ANT1	802.11b	2437.00	826.543	-48.163	-19.722	Pass
NVNT	ANT1	802.11b	2462.00	24962.545	-53.944	-16.823	Pass
NVNT	ANT1	802.11g	2412.00	24980.024	-58.498	-19.932	Pass
NVNT	ANT1	802.11g	2437.00	704.190	-41.422	-22.634	Pass
NVNT	ANT1	802.11g	2462.00	24977.527	-51.926	-19.877	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24955.054	-52.705	-20.614	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24932.581	-60.048	-22.423	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24380.744	-52.141	-19.930	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24992.509	-58.960	-25.068	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24970.036	-55.796	-23.603	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24390.732	-61.061	-22.111	Pass

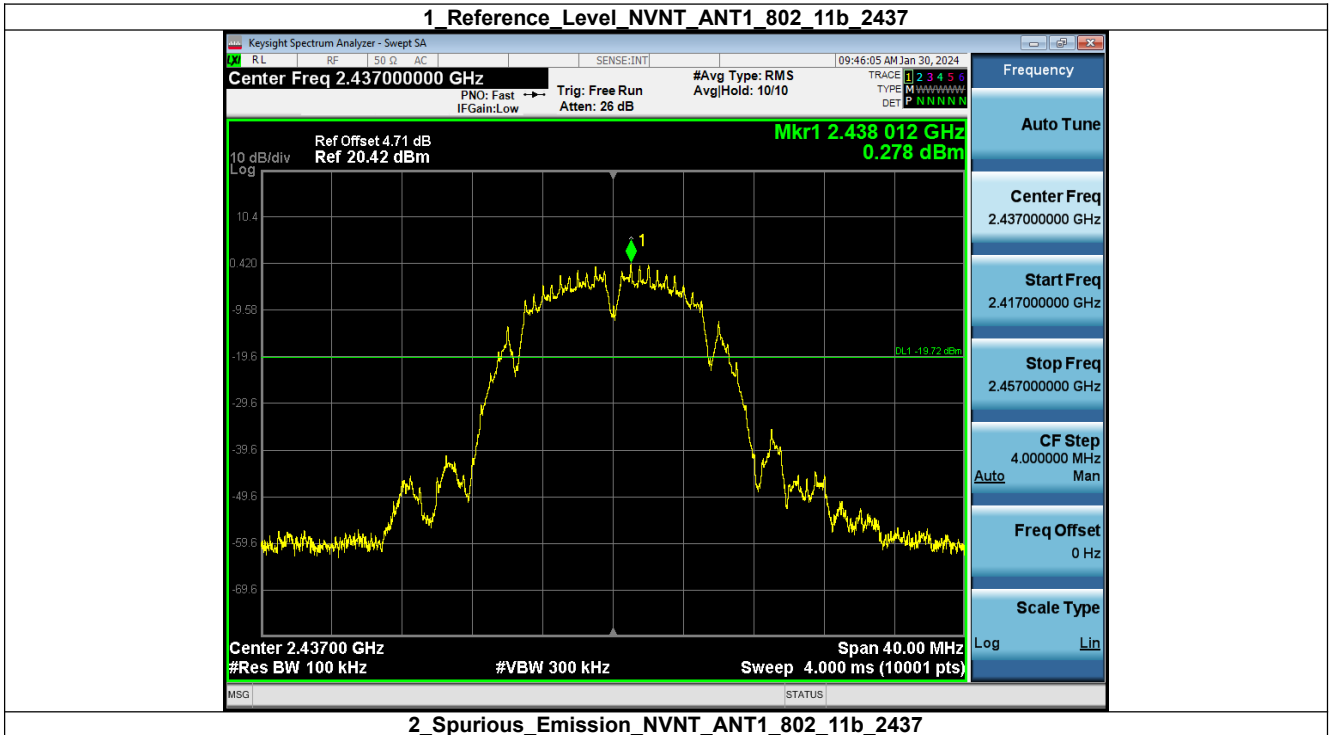
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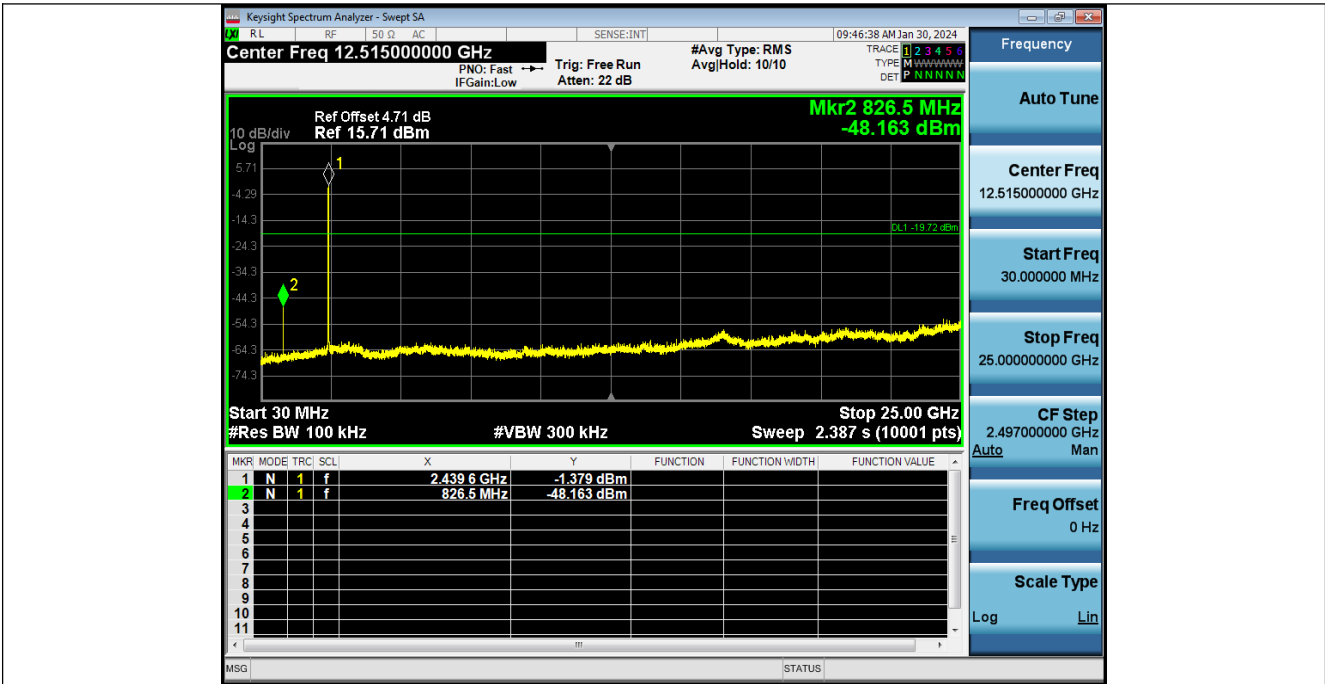
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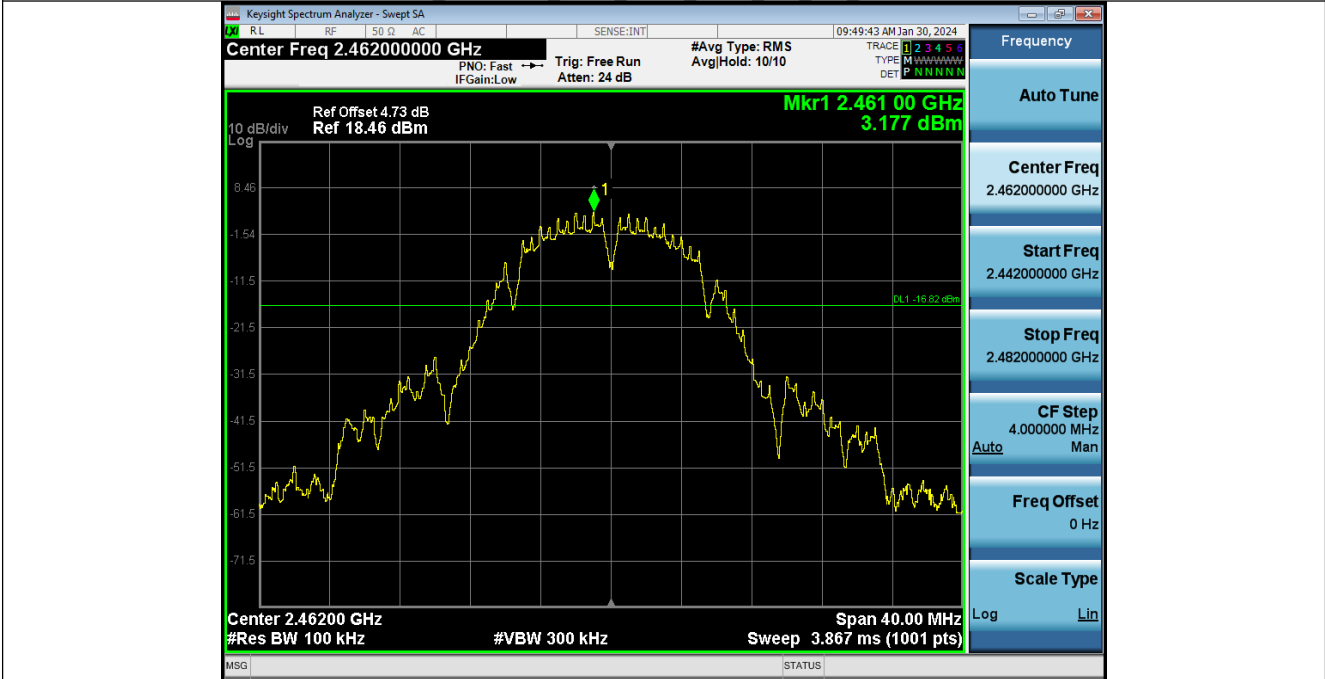
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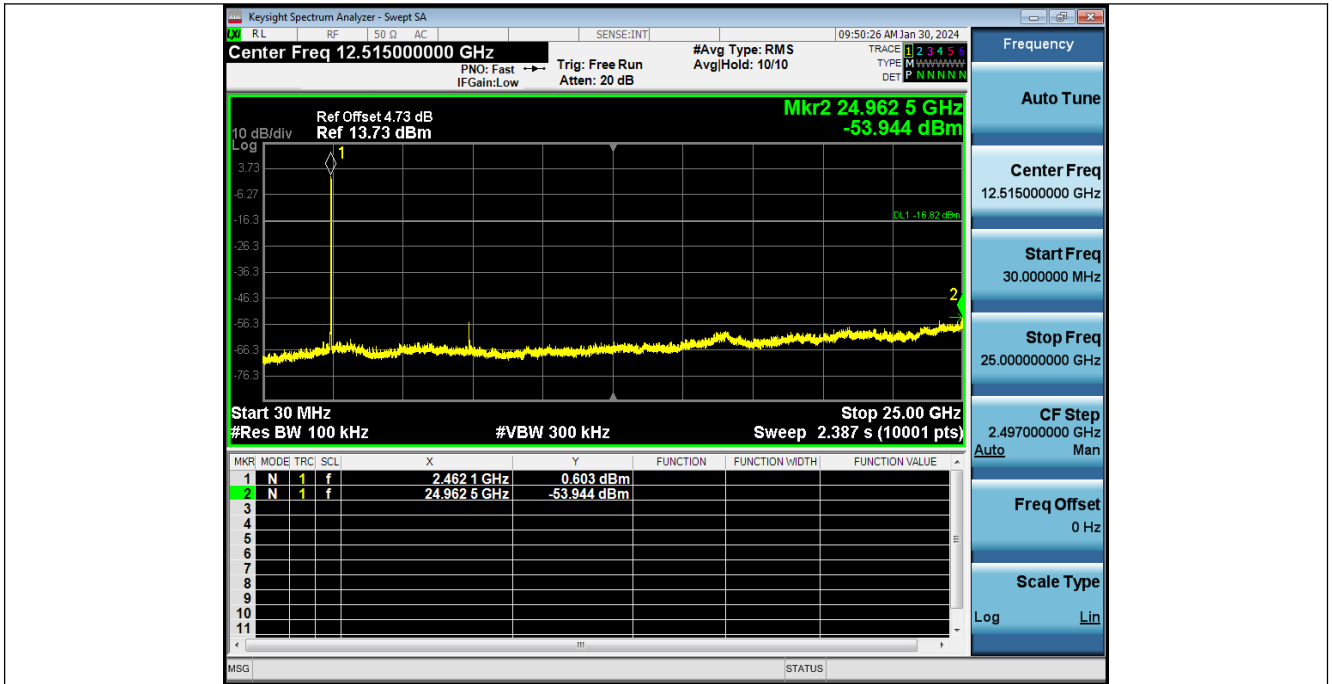
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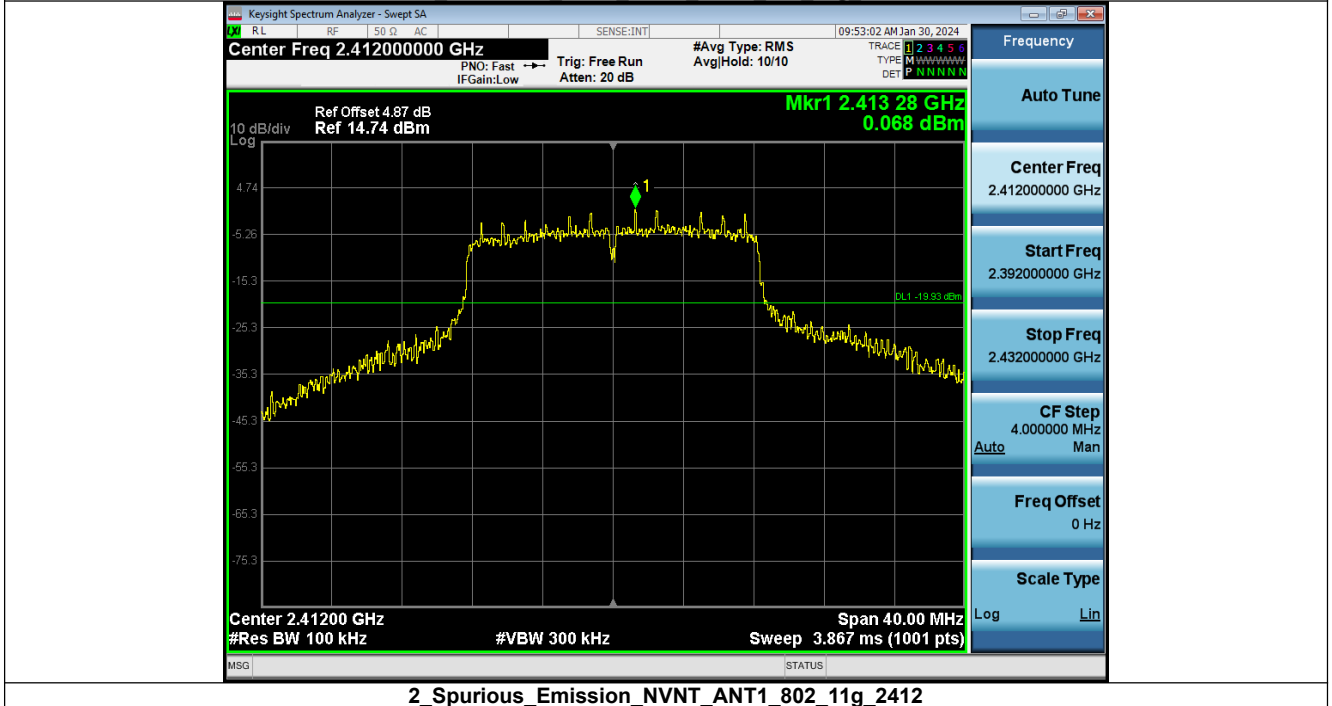
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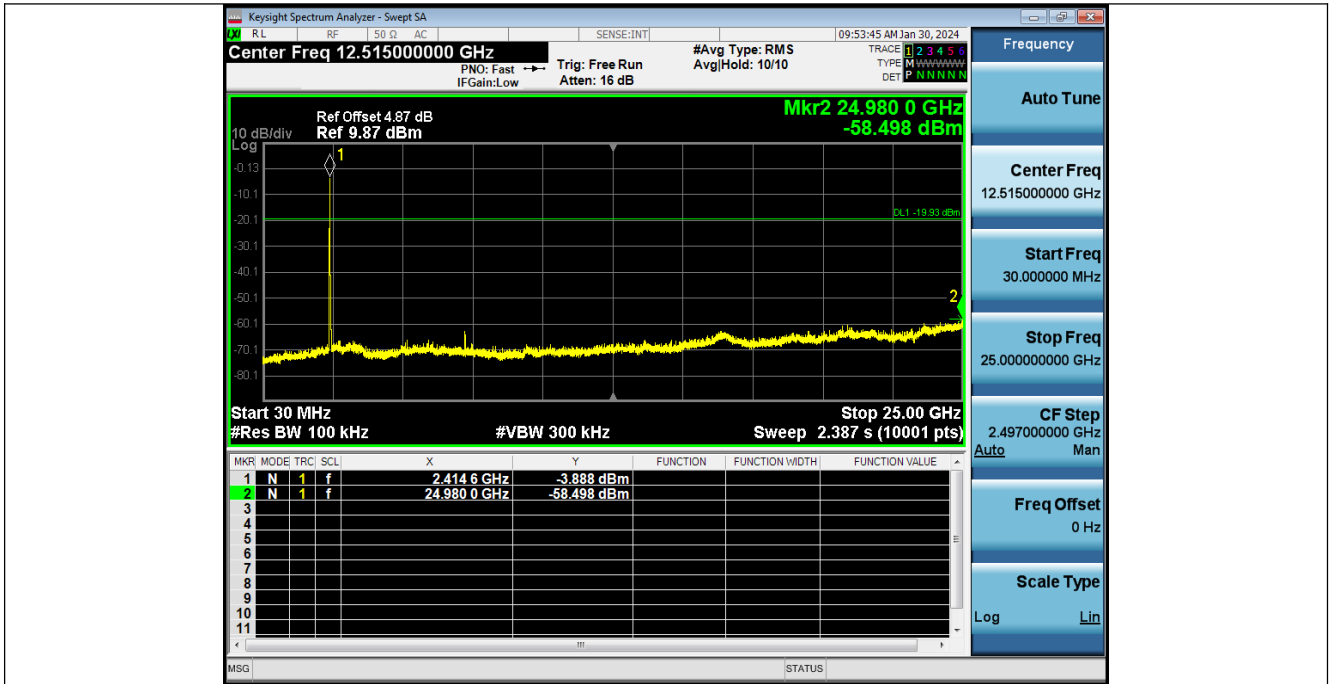
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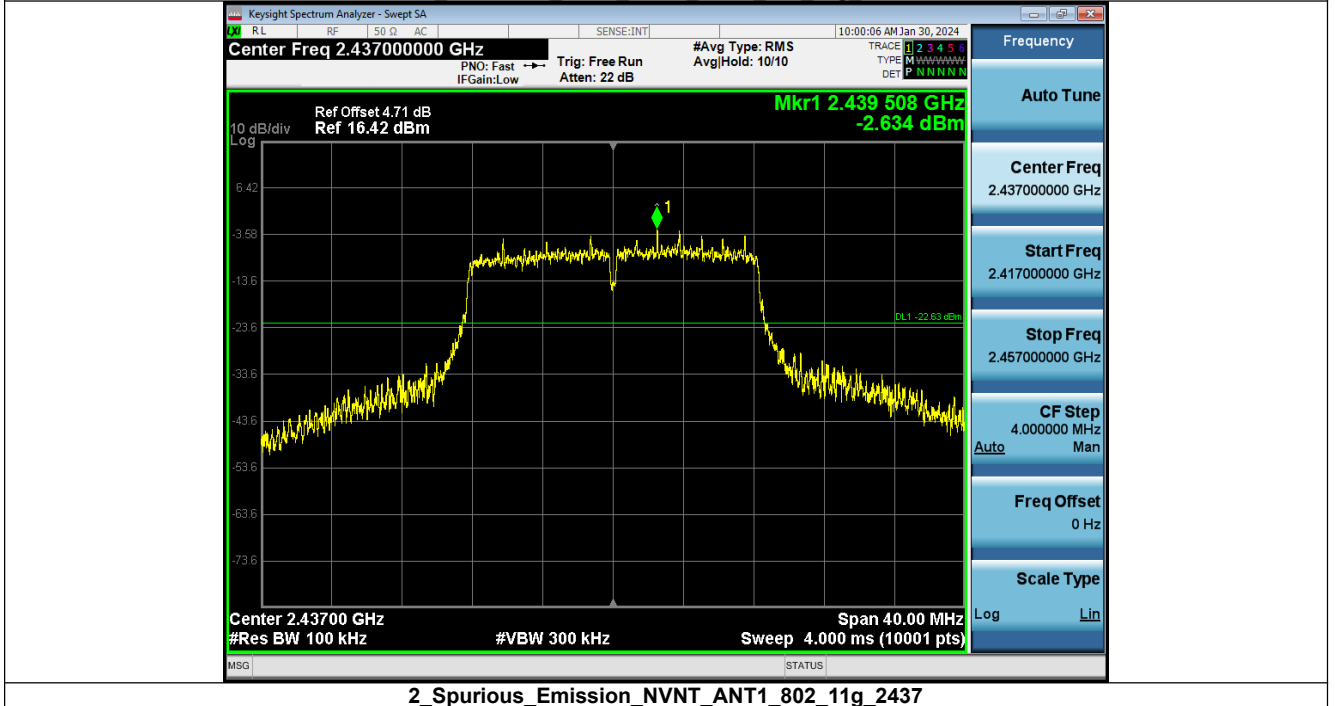
1 Reference Level NVNT_ANT1_802_11g_2412



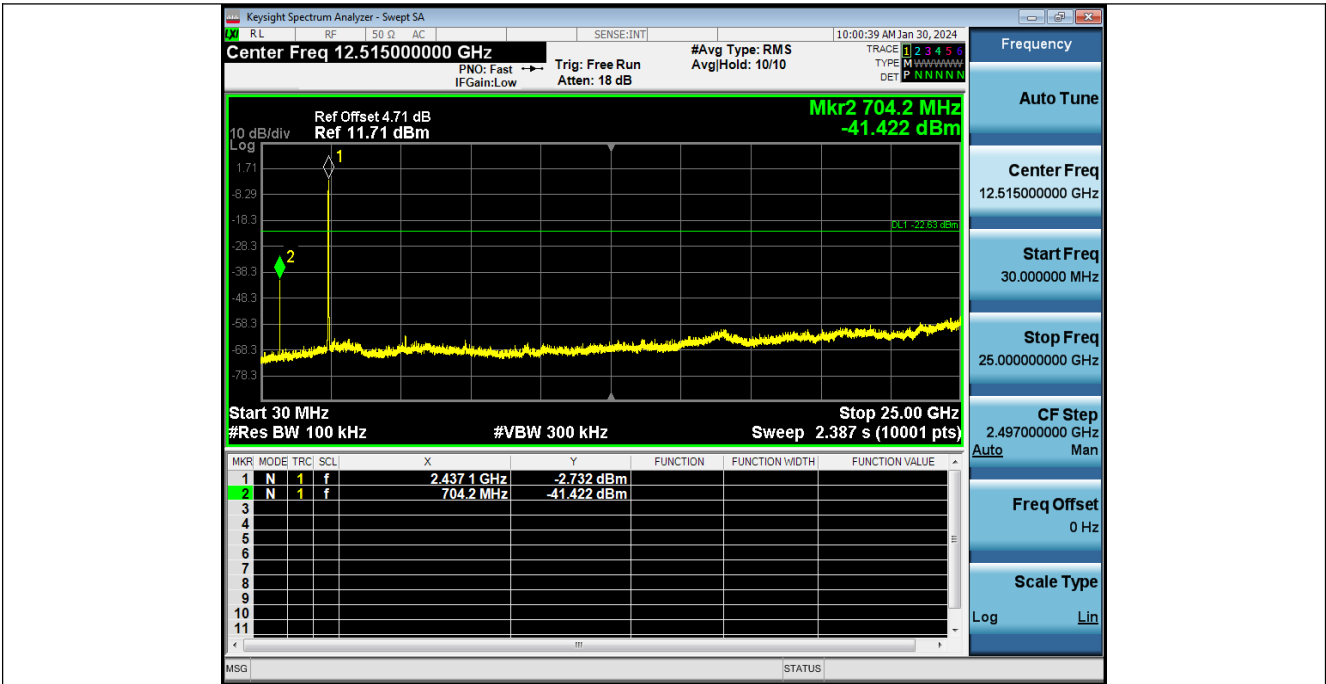
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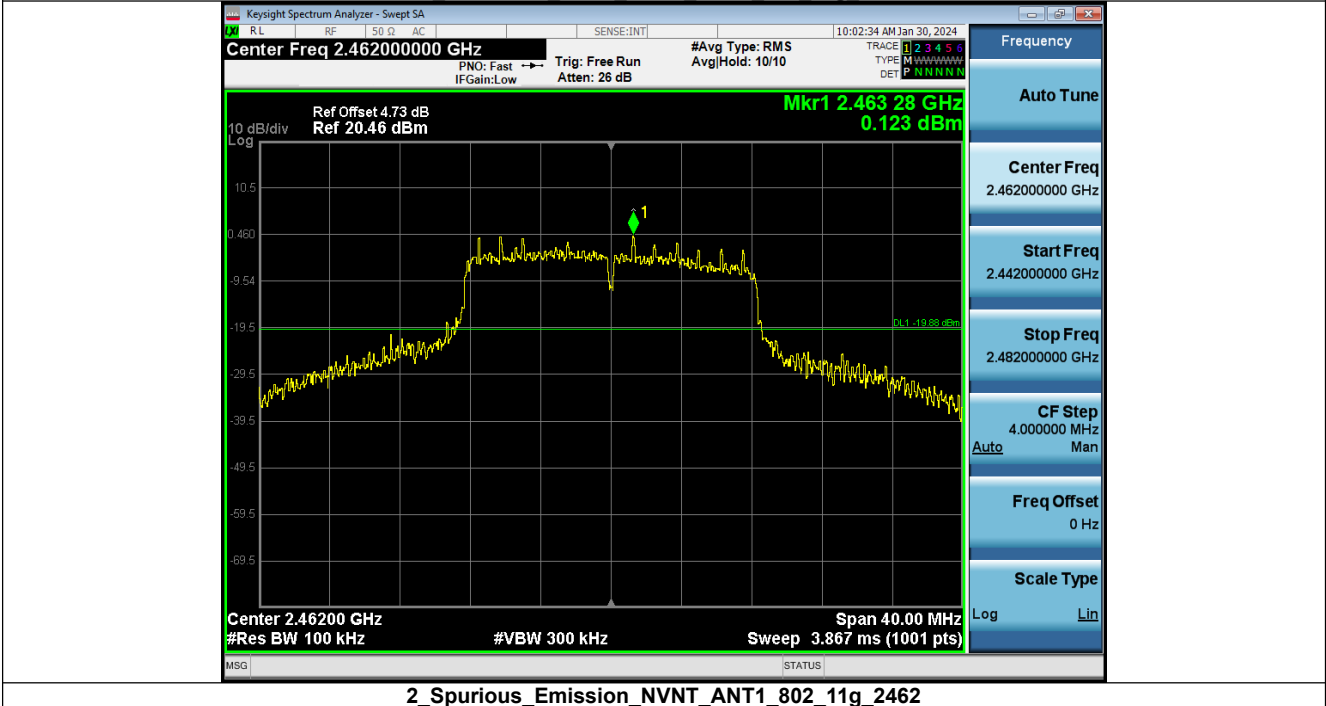
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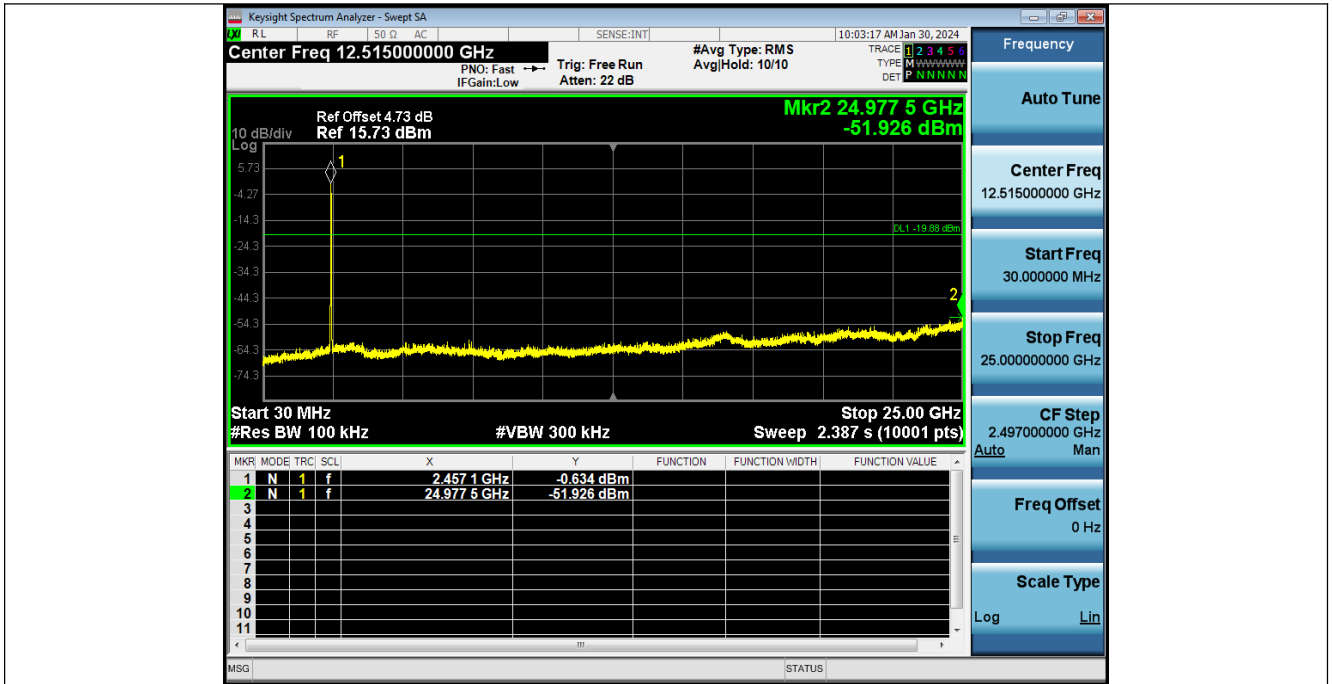
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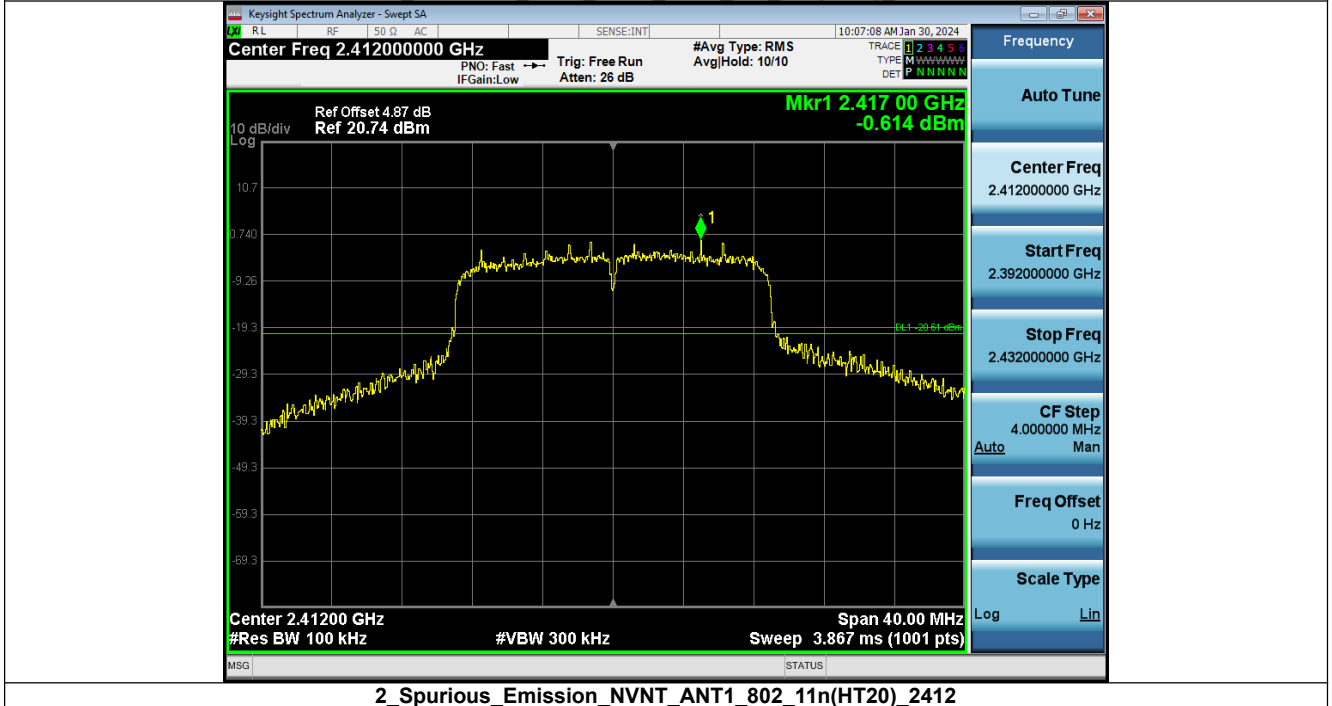
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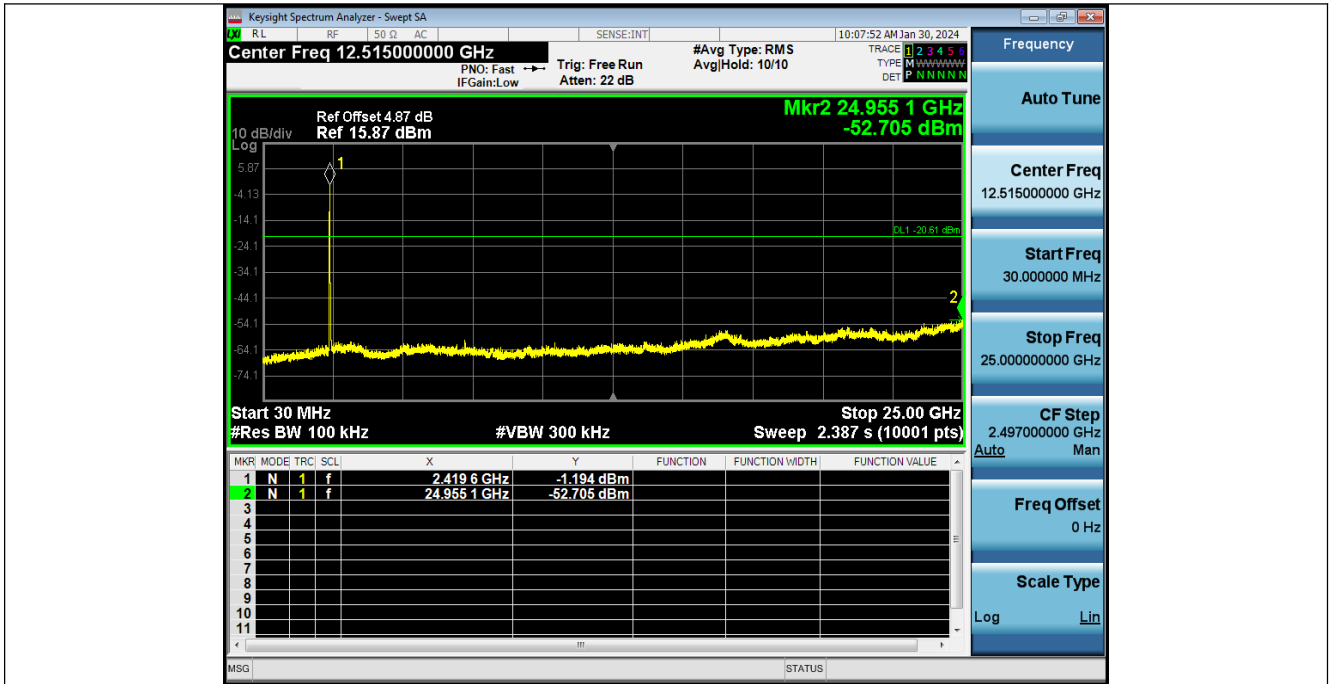
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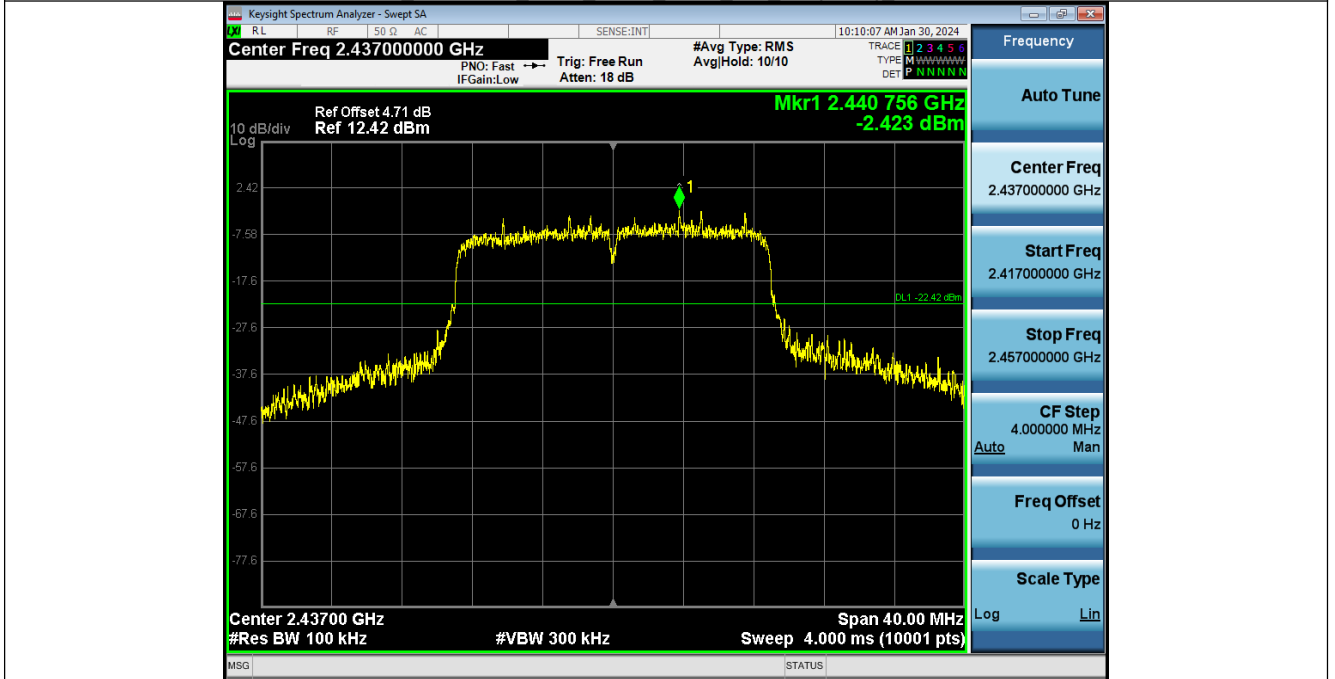
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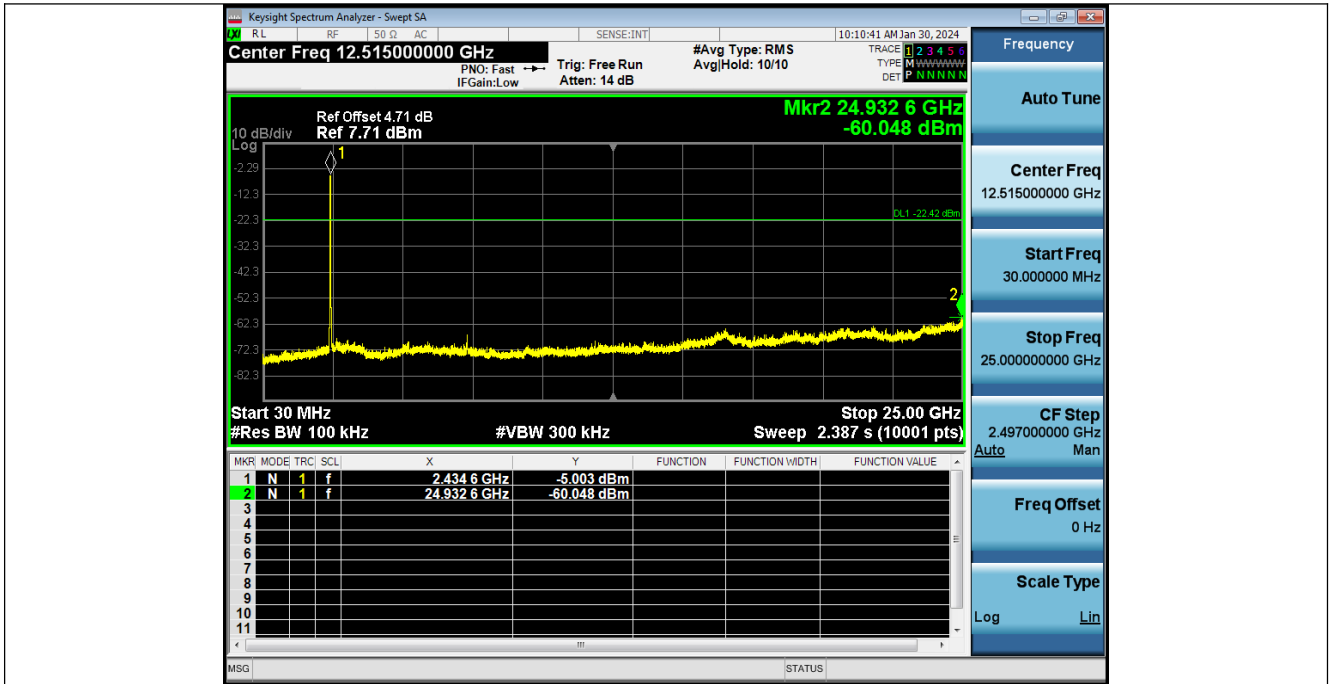
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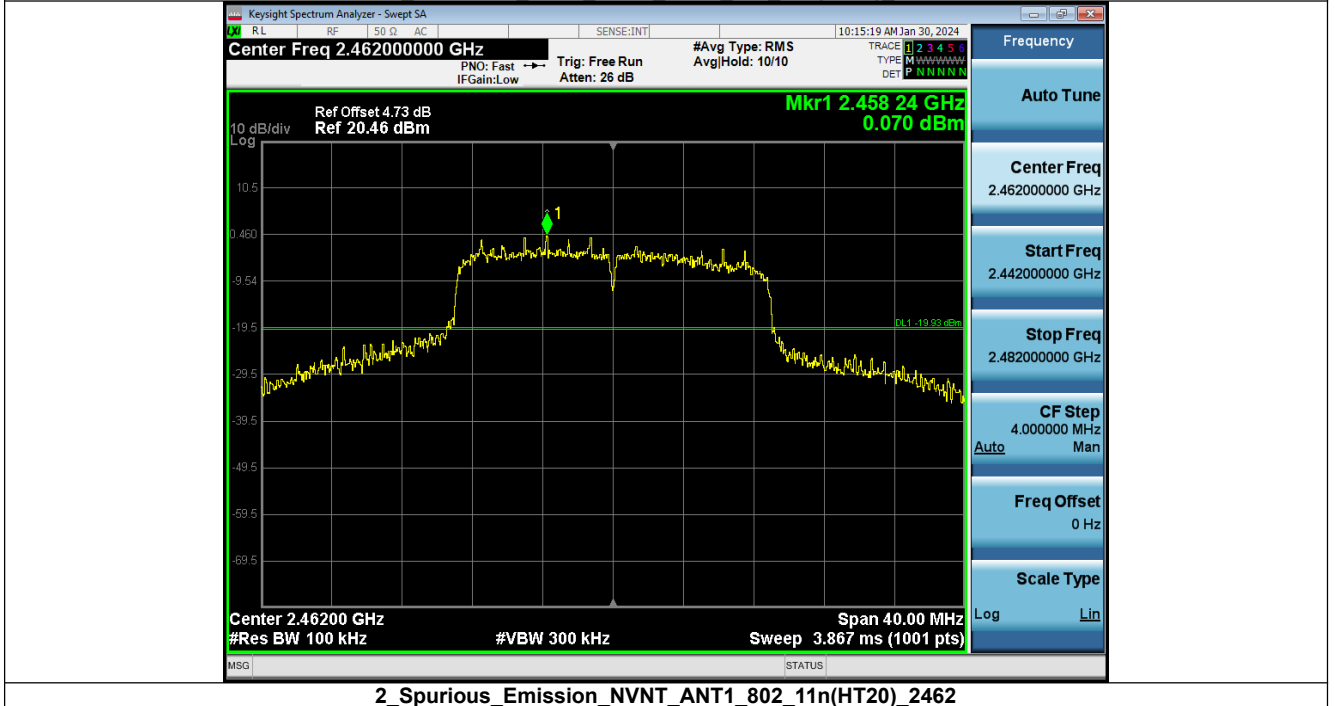
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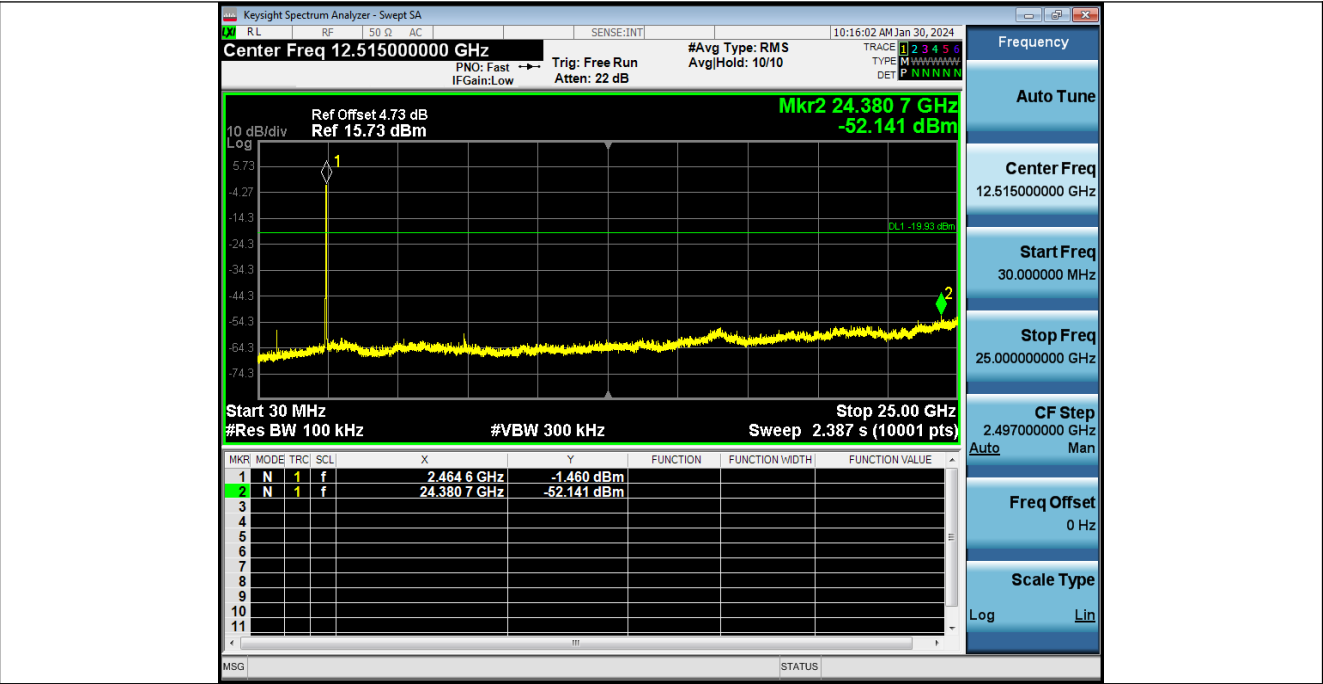
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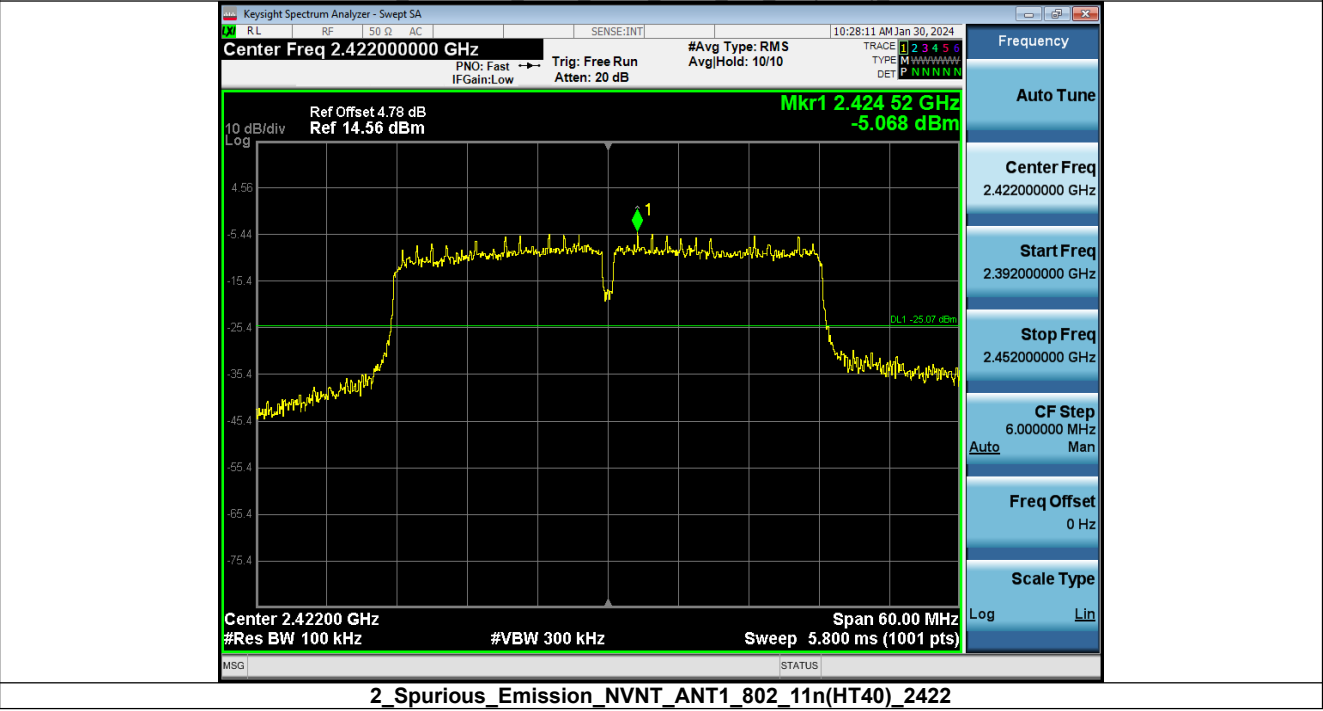
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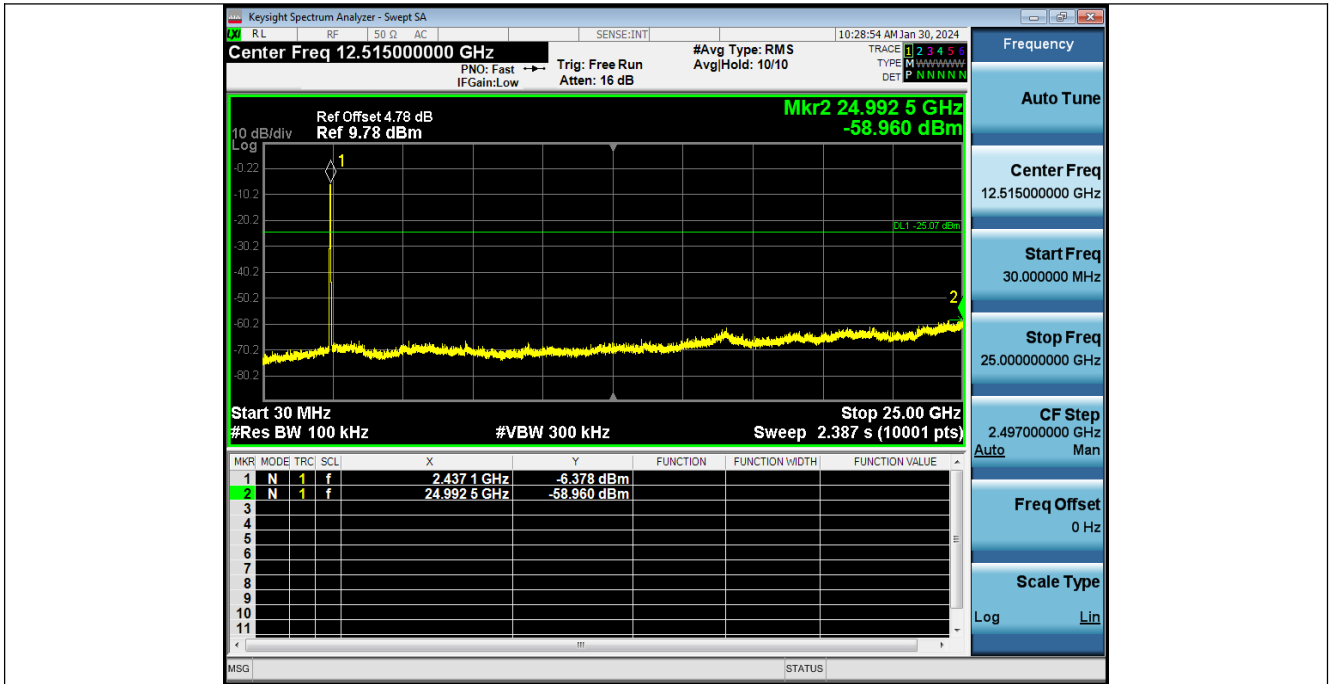
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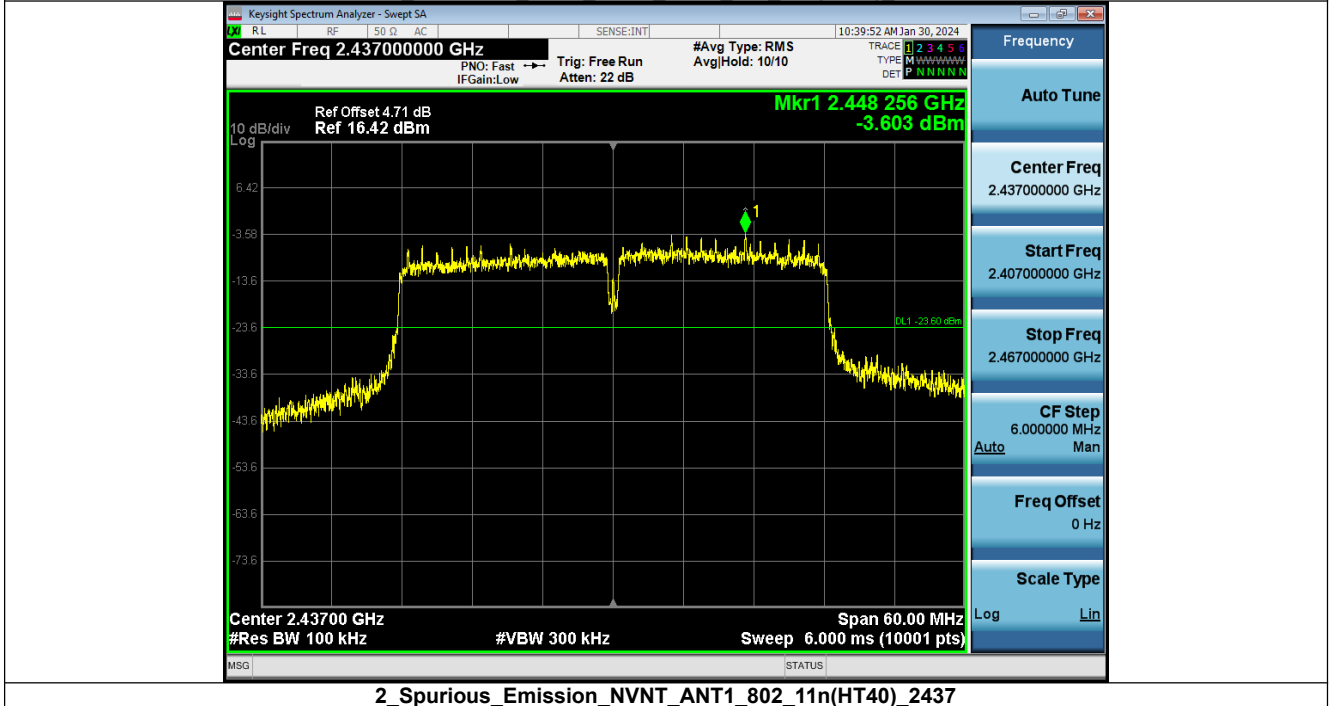
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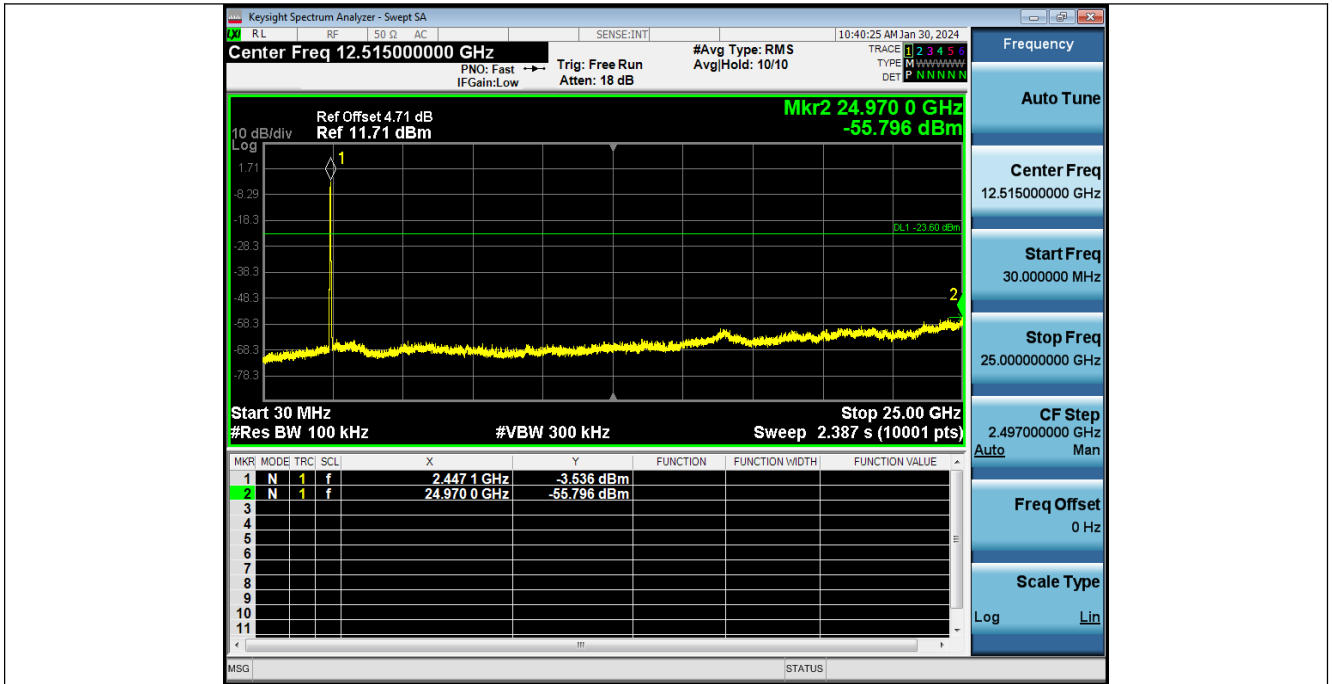
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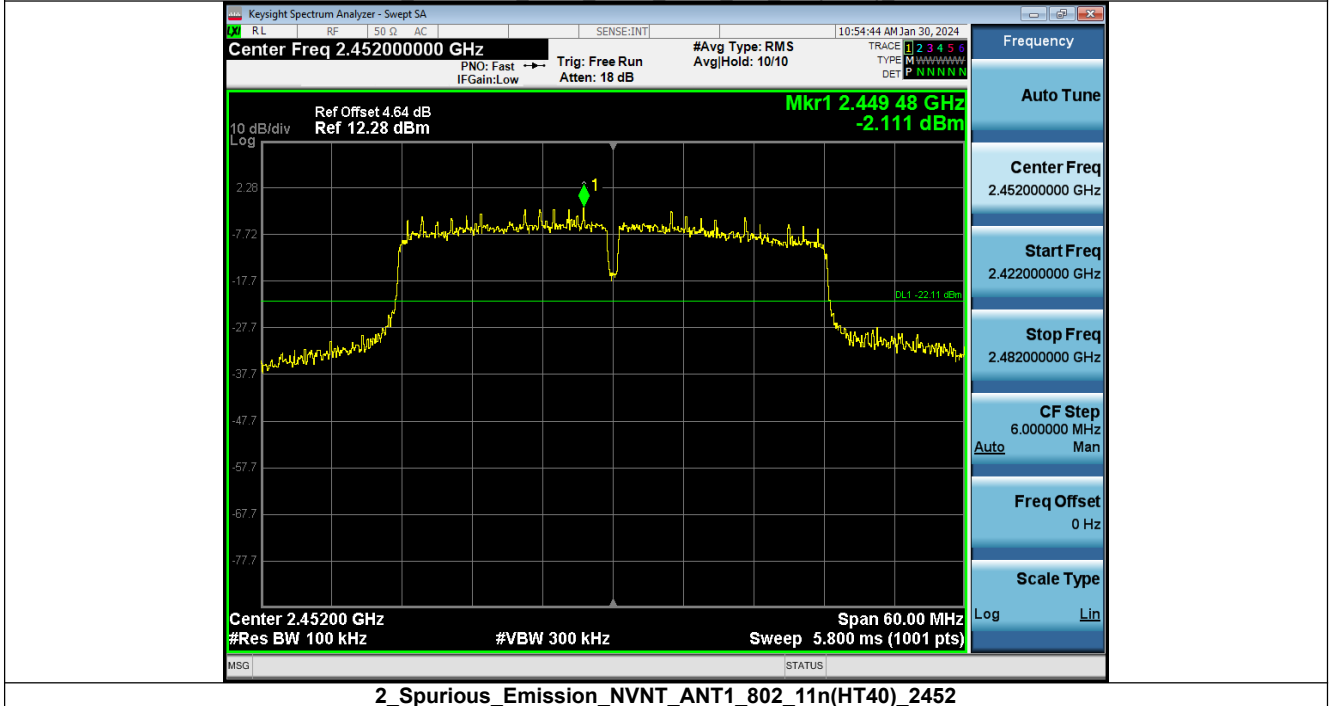
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2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1 Reference Level NVNT_ANT1_802_11n(HT40)_2452



2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2452

