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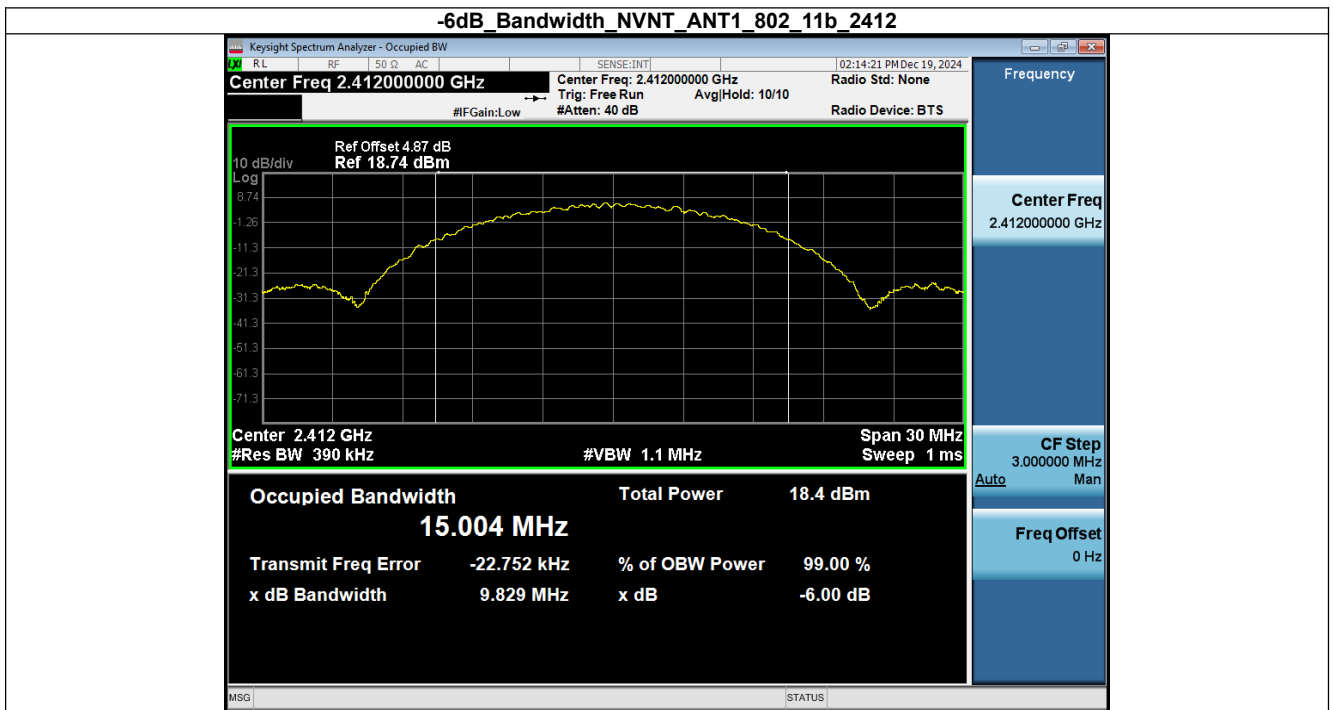
7. Spurious Emission 39

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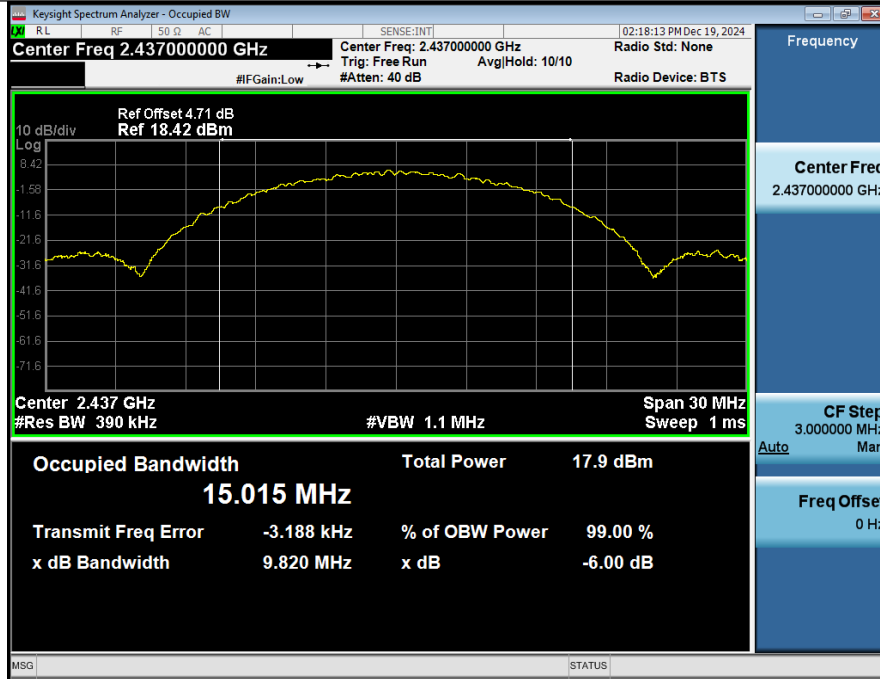
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

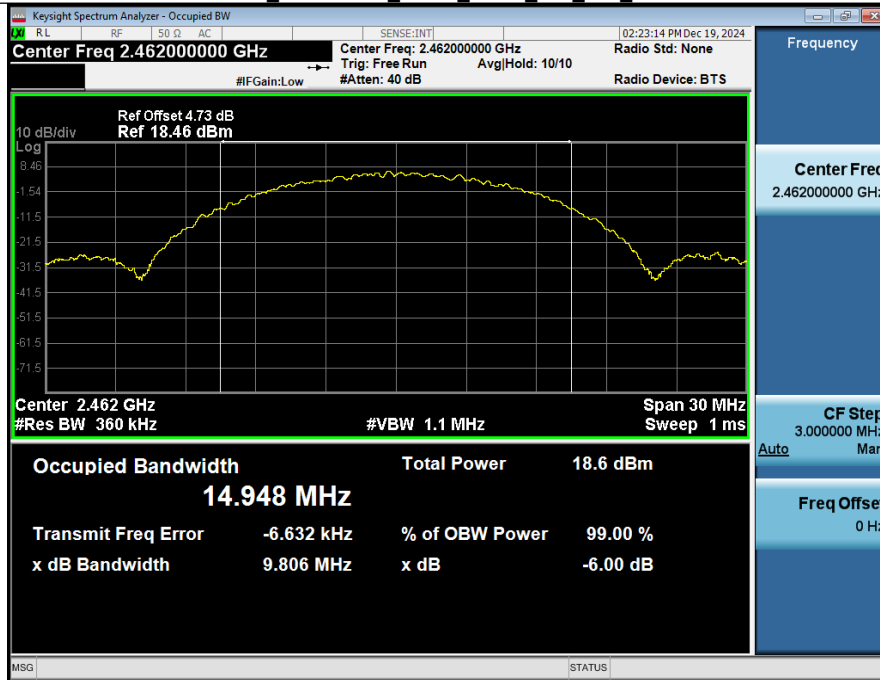
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.83	500	Pass
NVNT	ANT1	802.11b	2437.00	9.82	500	Pass
NVNT	ANT1	802.11b	2462.00	9.81	500	Pass
NVNT	ANT1	802.11g	2412.00	16.65	500	Pass
NVNT	ANT1	802.11g	2437.00	16.67	500	Pass
NVNT	ANT1	802.11g	2462.00	16.71	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	18.03	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	18.04	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.99	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.72	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.61	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.68	500	Pass



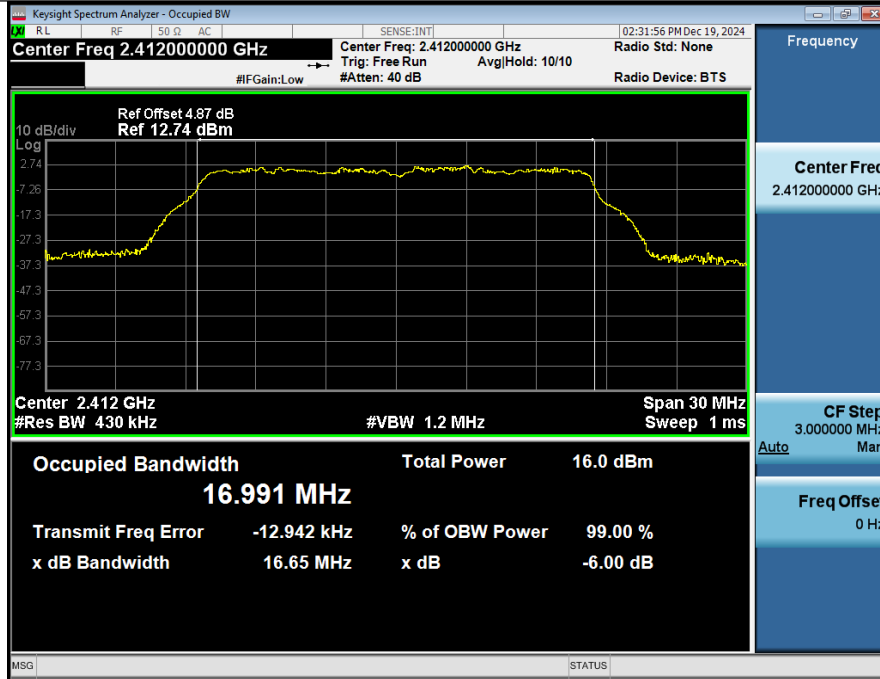
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



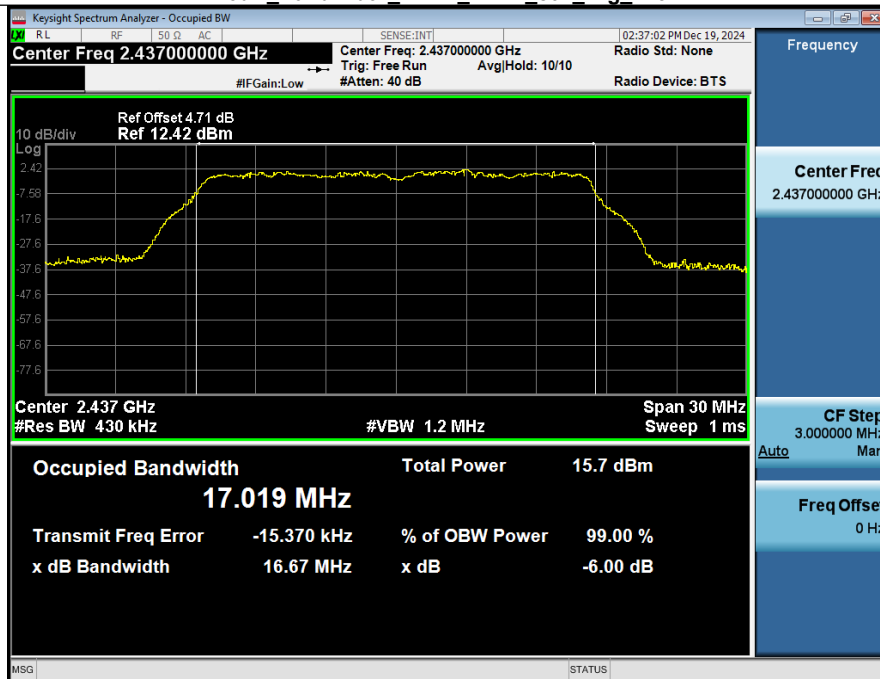
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



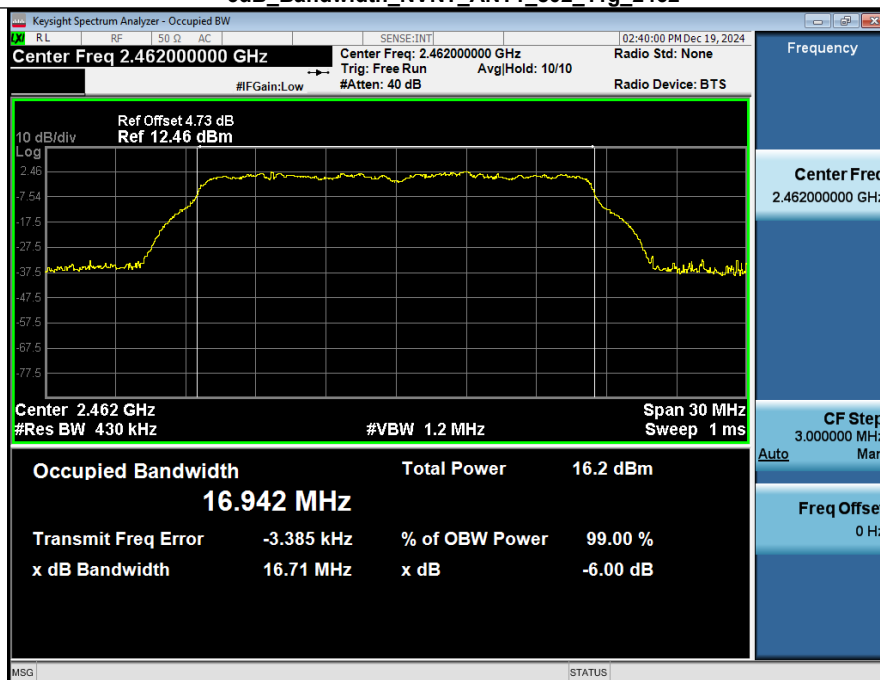
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



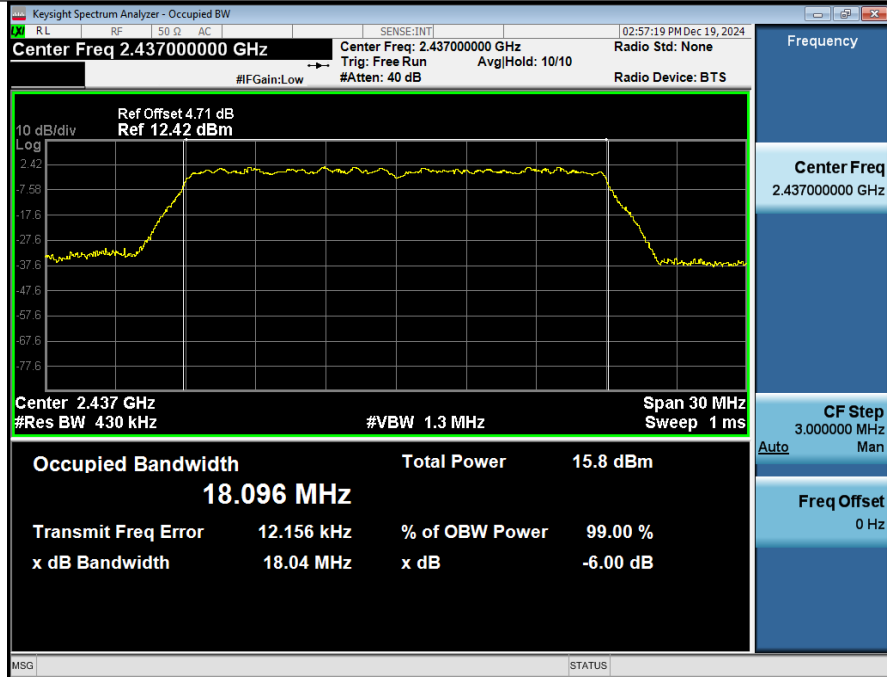
-6dB Bandwidth_NVNT_ANT1_802_11g_2462



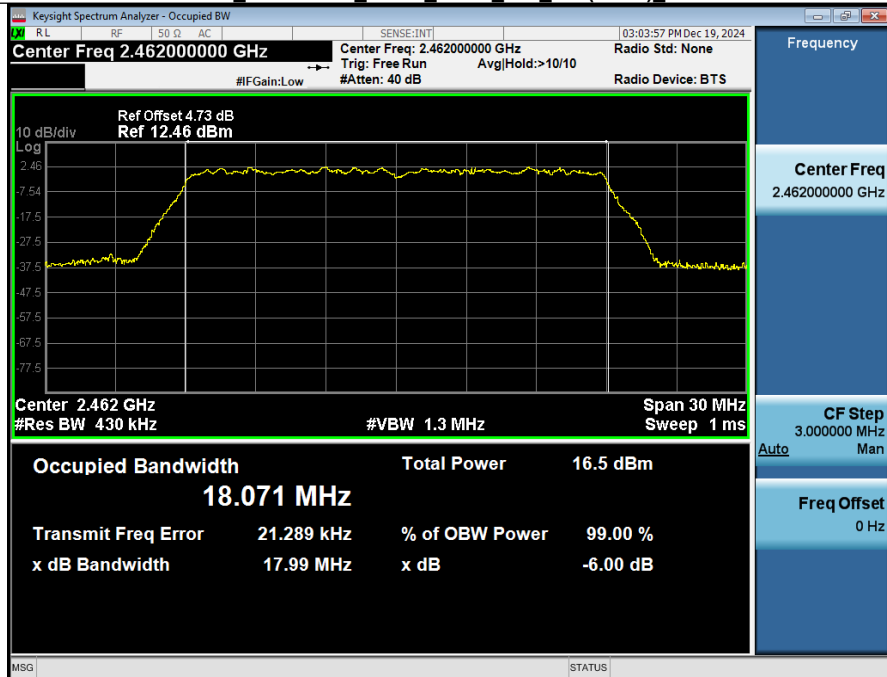
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



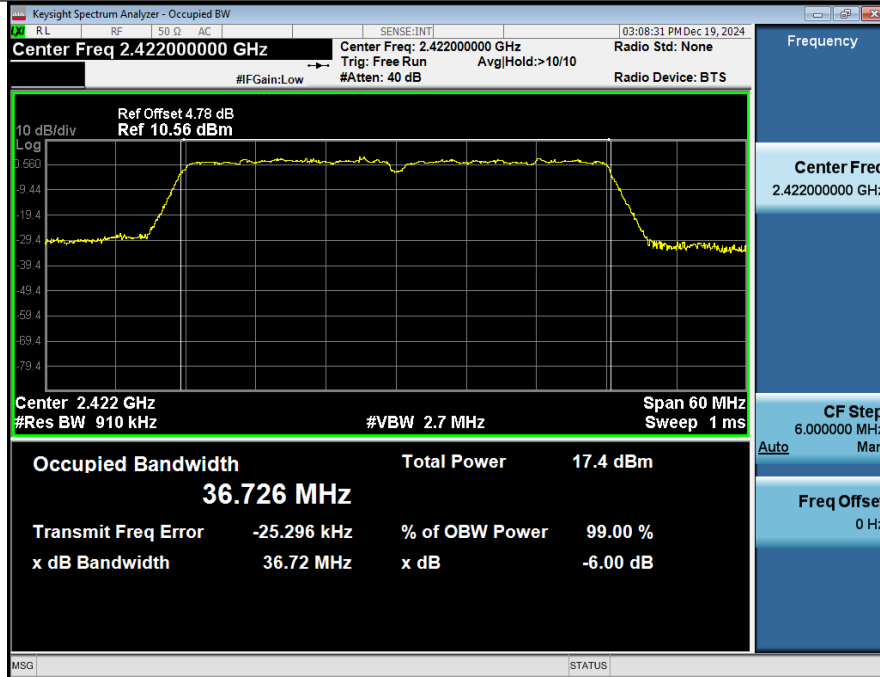
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



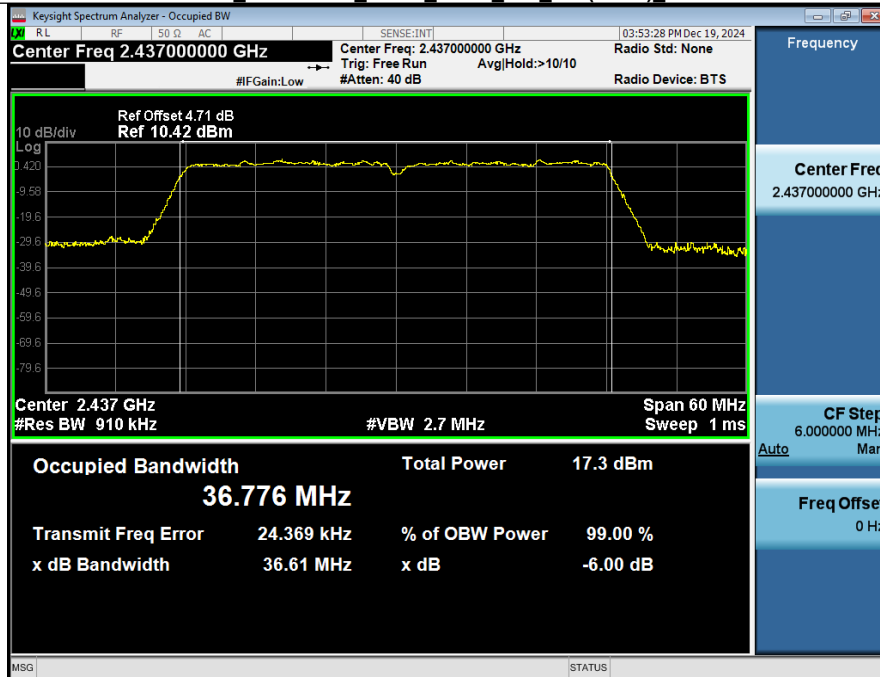
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

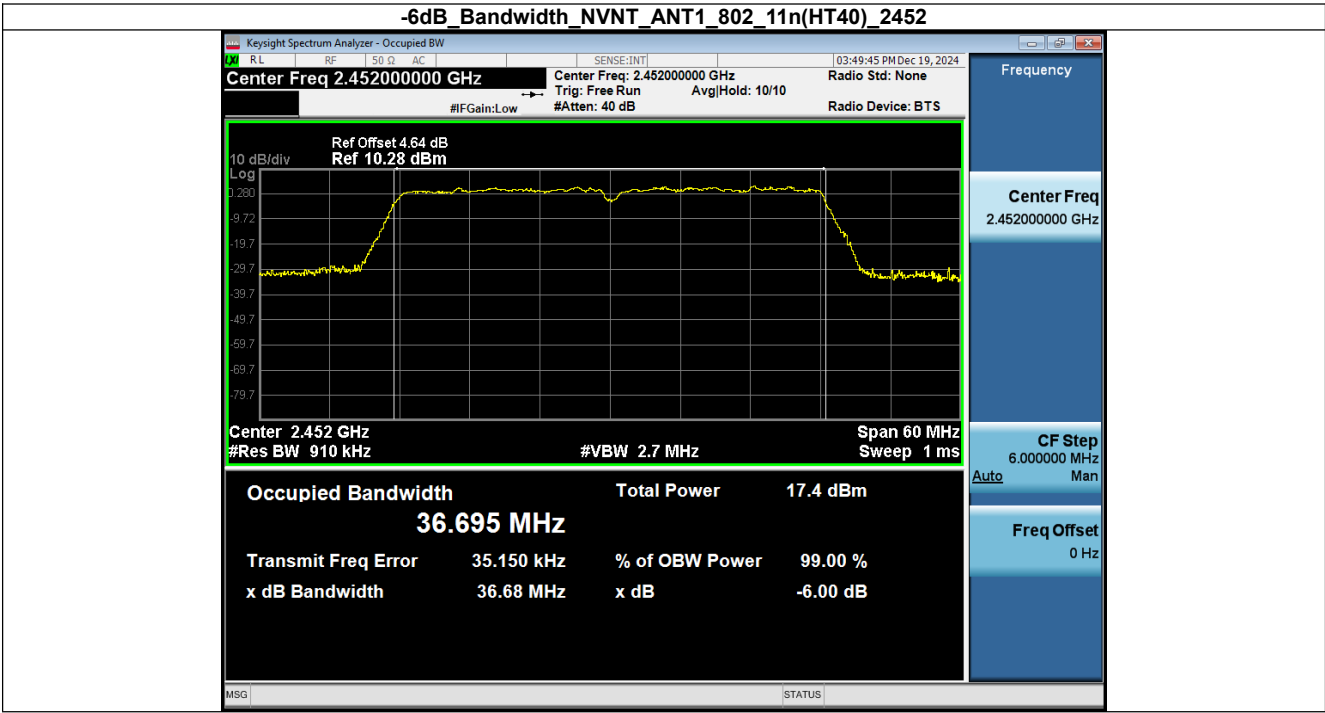


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



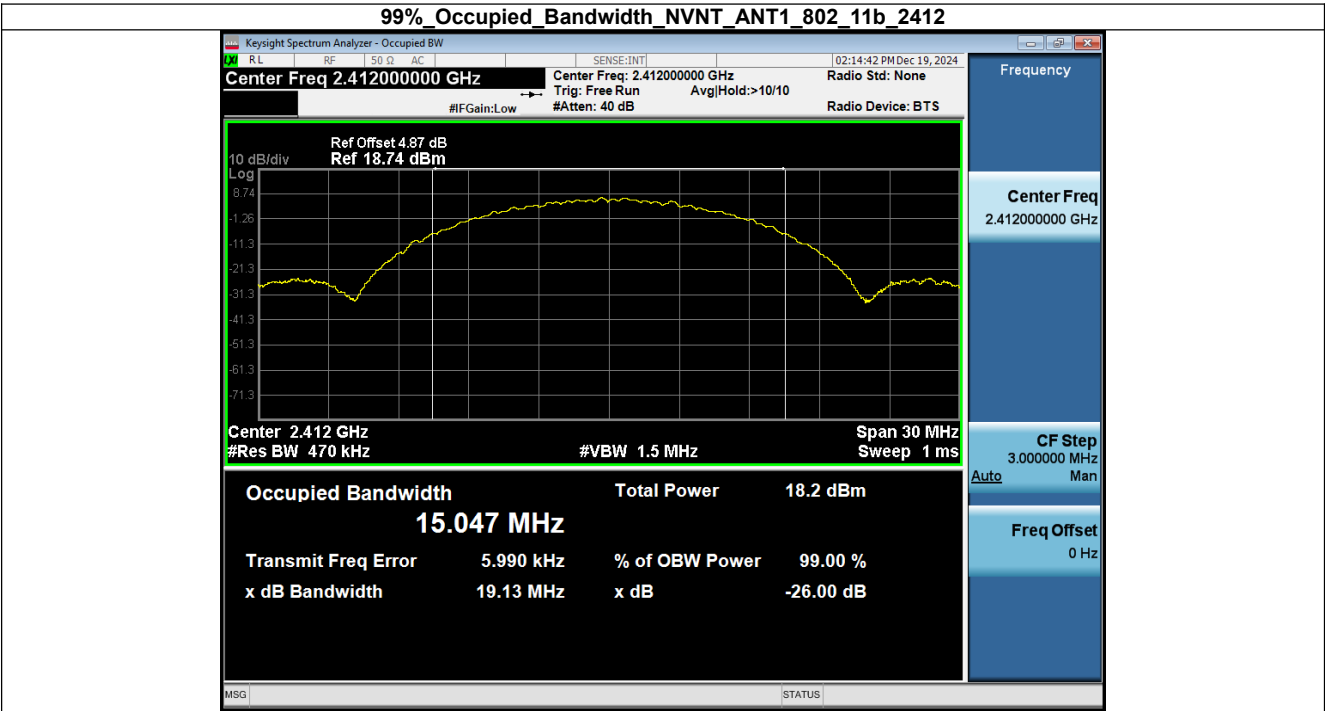
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



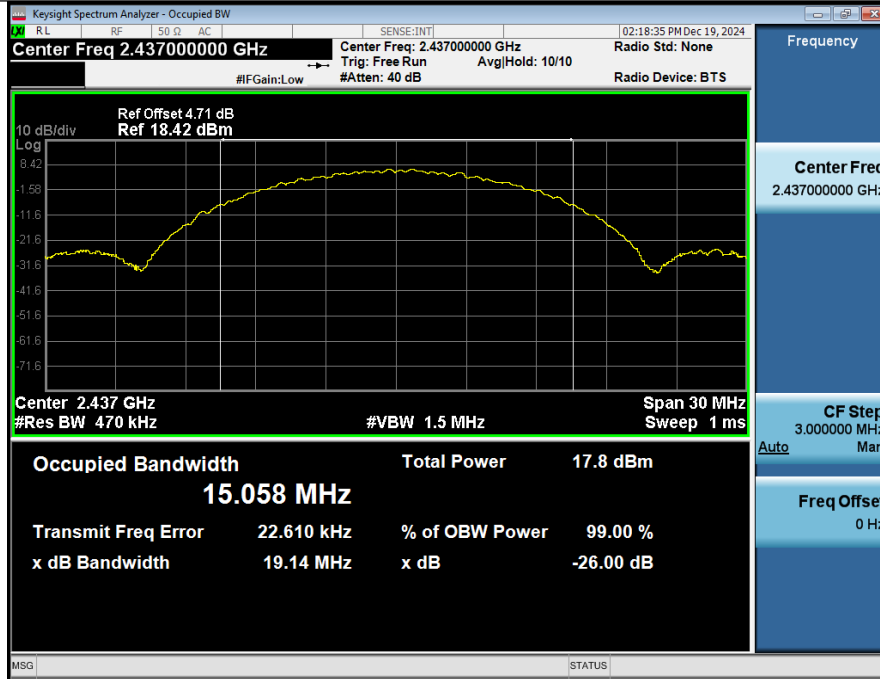


2. 99% Occupied Bandwidth

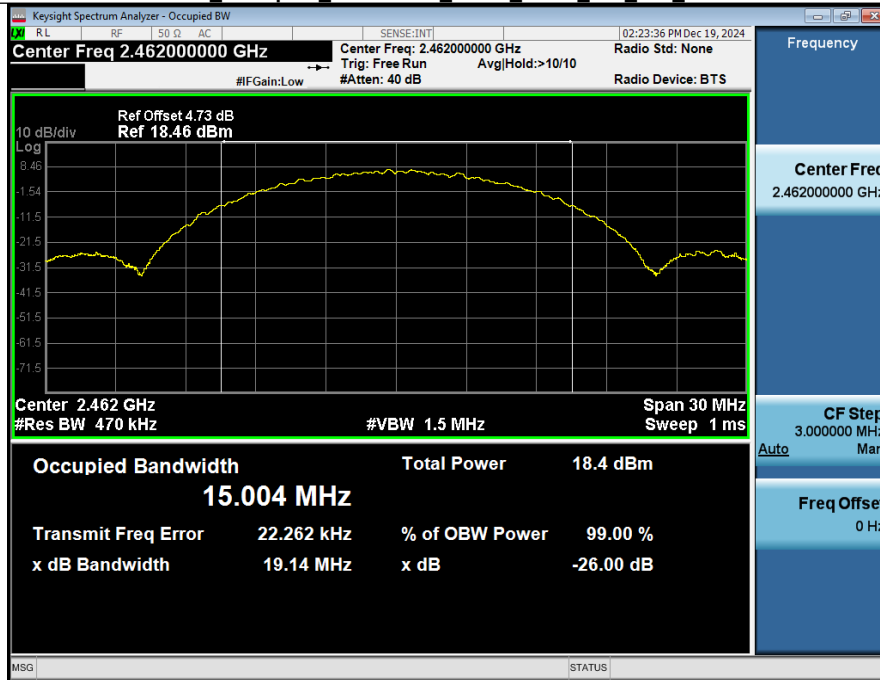
Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	15.047
NVNT	ANT1	802.11b	2437.00	15.058
NVNT	ANT1	802.11b	2462.00	15.004
NVNT	ANT1	802.11g	2412.00	17.138
NVNT	ANT1	802.11g	2437.00	17.125
NVNT	ANT1	802.11g	2462.00	17.105
NVNT	ANT1	802.11n(HT20)	2412.00	18.203
NVNT	ANT1	802.11n(HT20)	2437.00	18.210
NVNT	ANT1	802.11n(HT20)	2462.00	18.187
NVNT	ANT1	802.11n(HT40)	2422.00	36.783
NVNT	ANT1	802.11n(HT40)	2437.00	36.827
NVNT	ANT1	802.11n(HT40)	2452.00	36.761



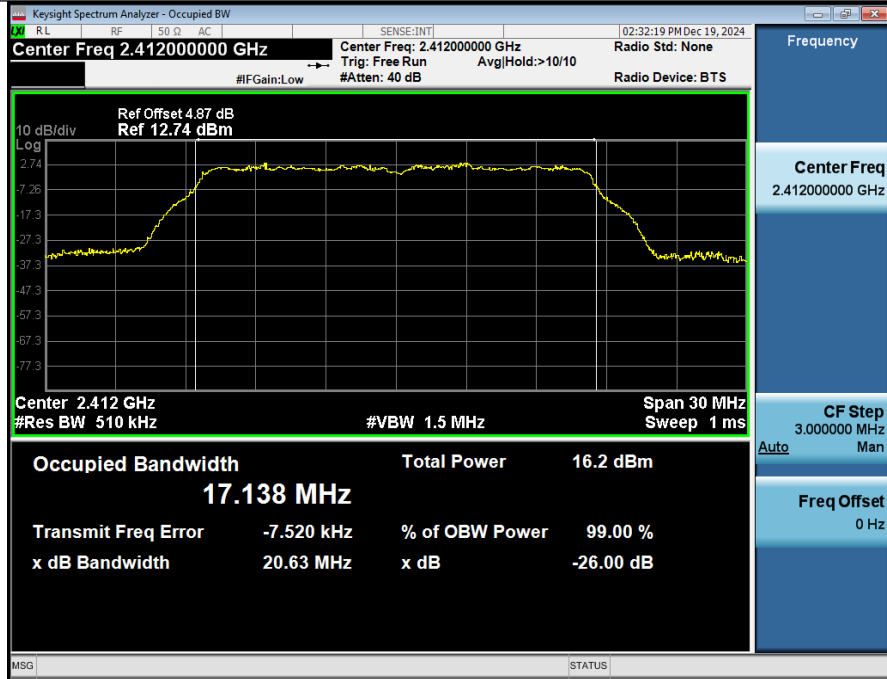
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



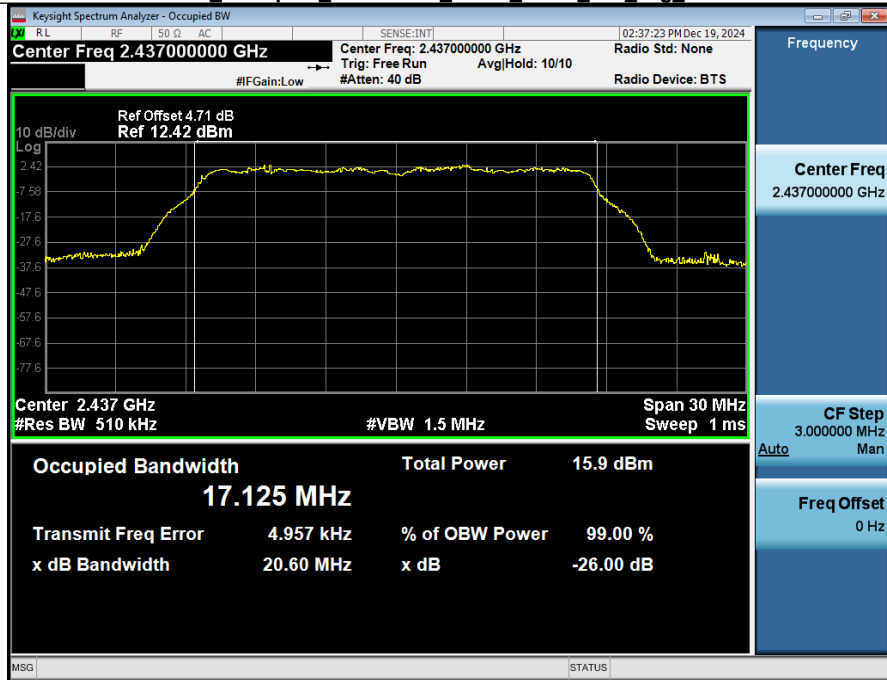
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



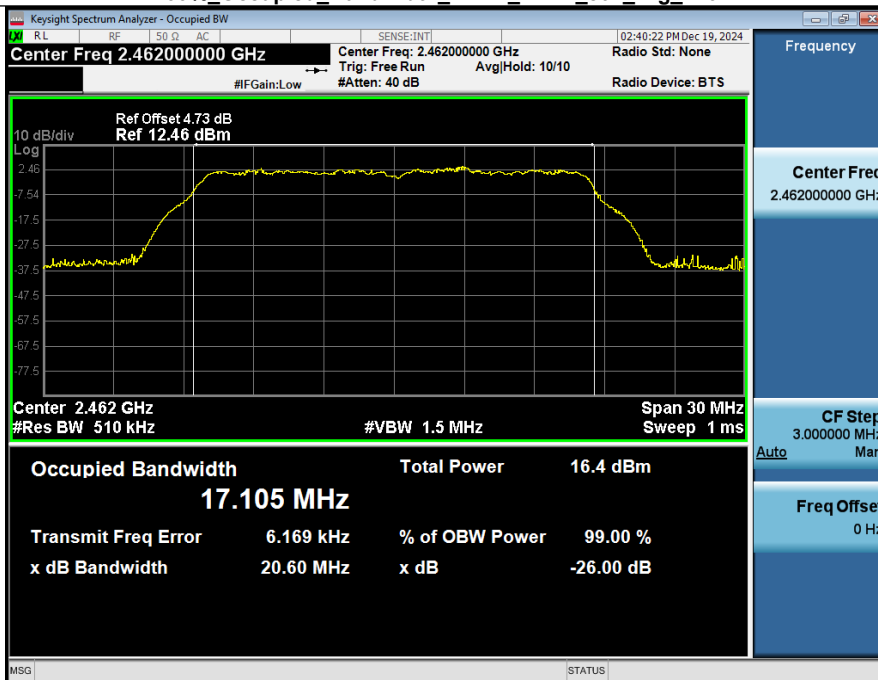
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



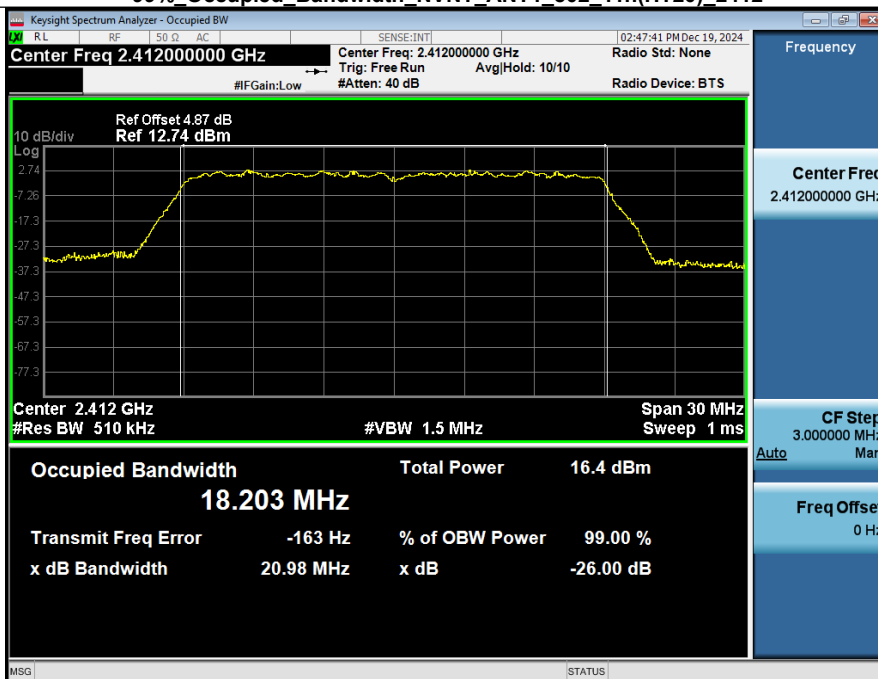
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437

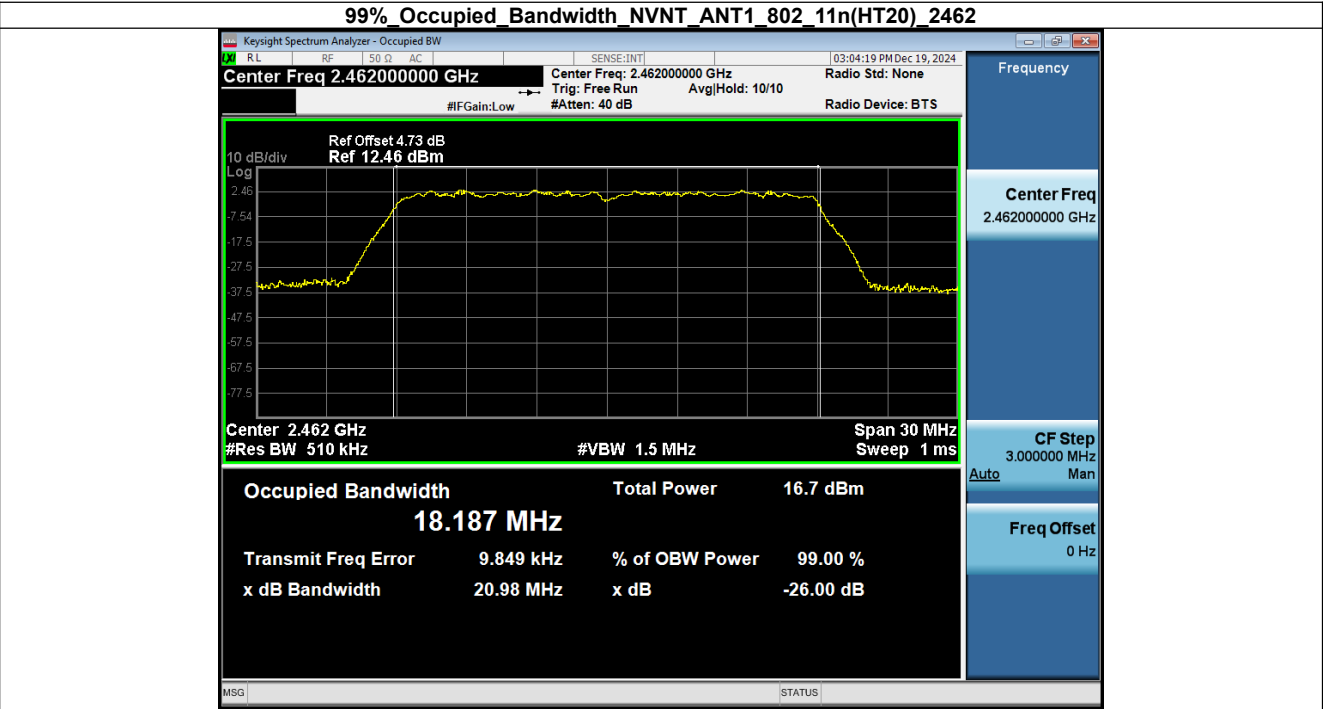
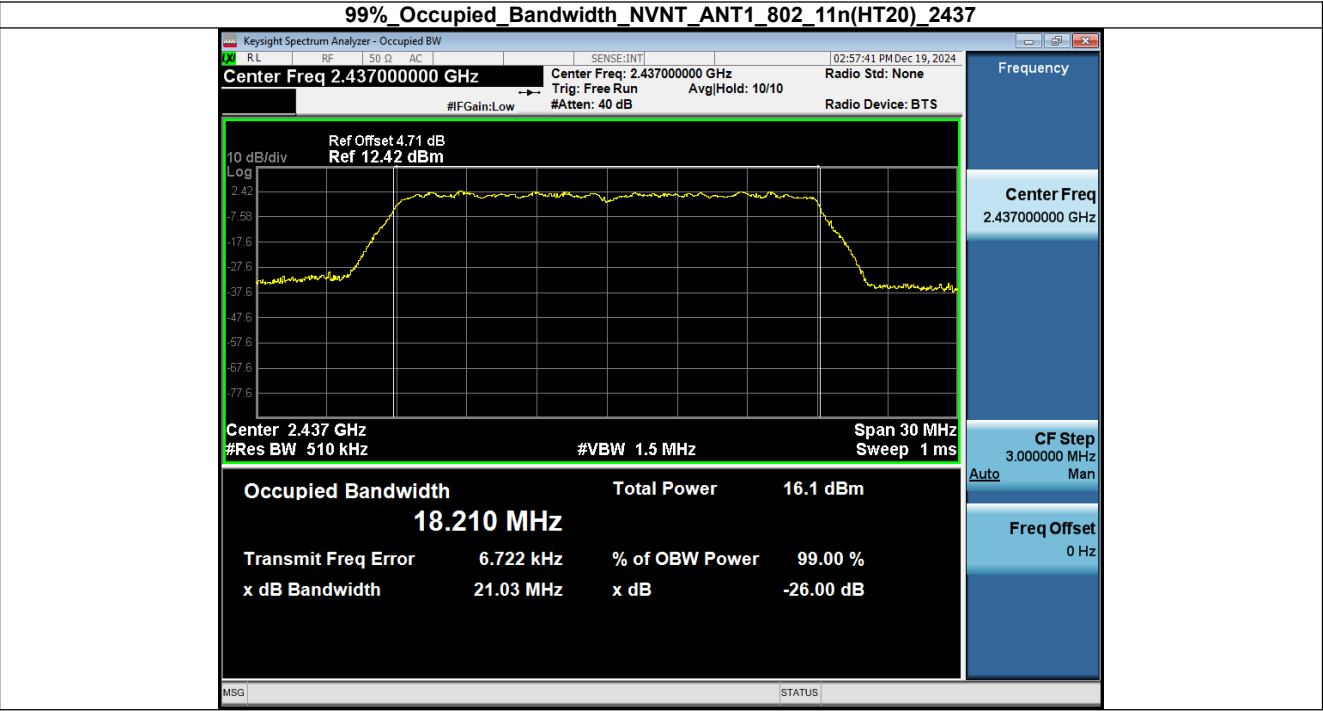


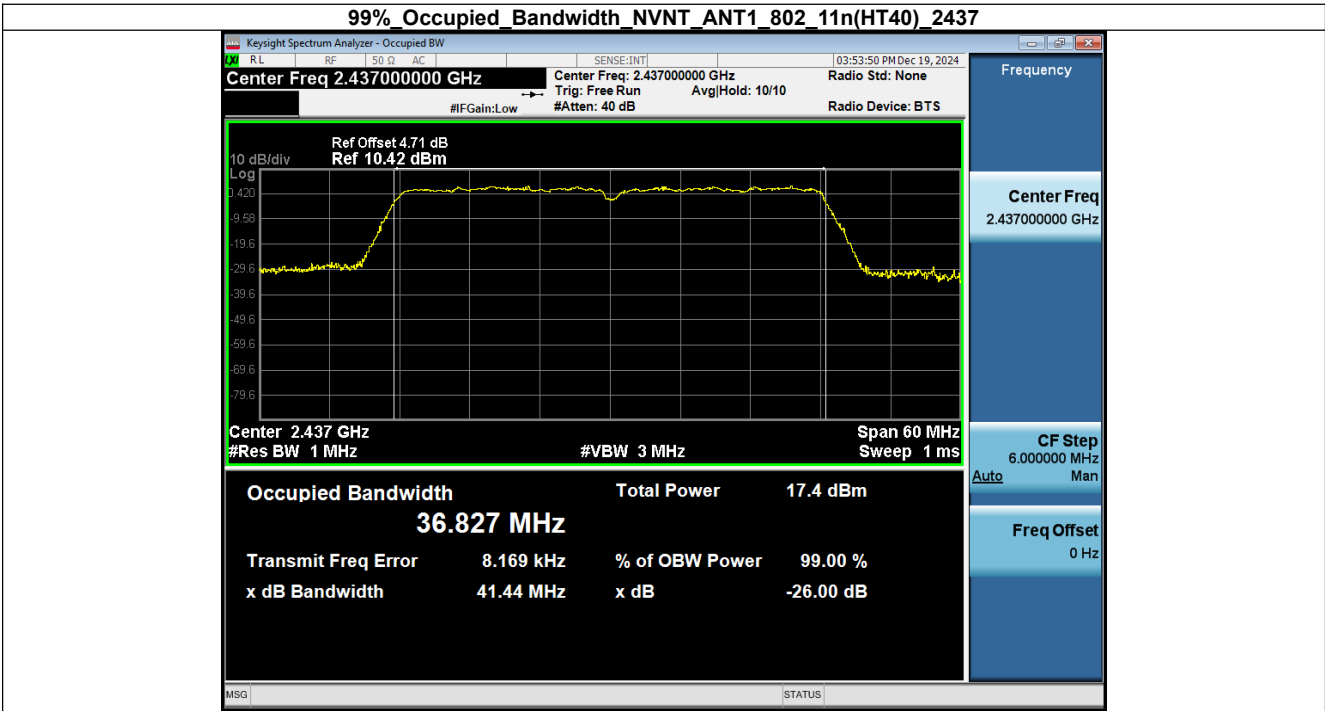
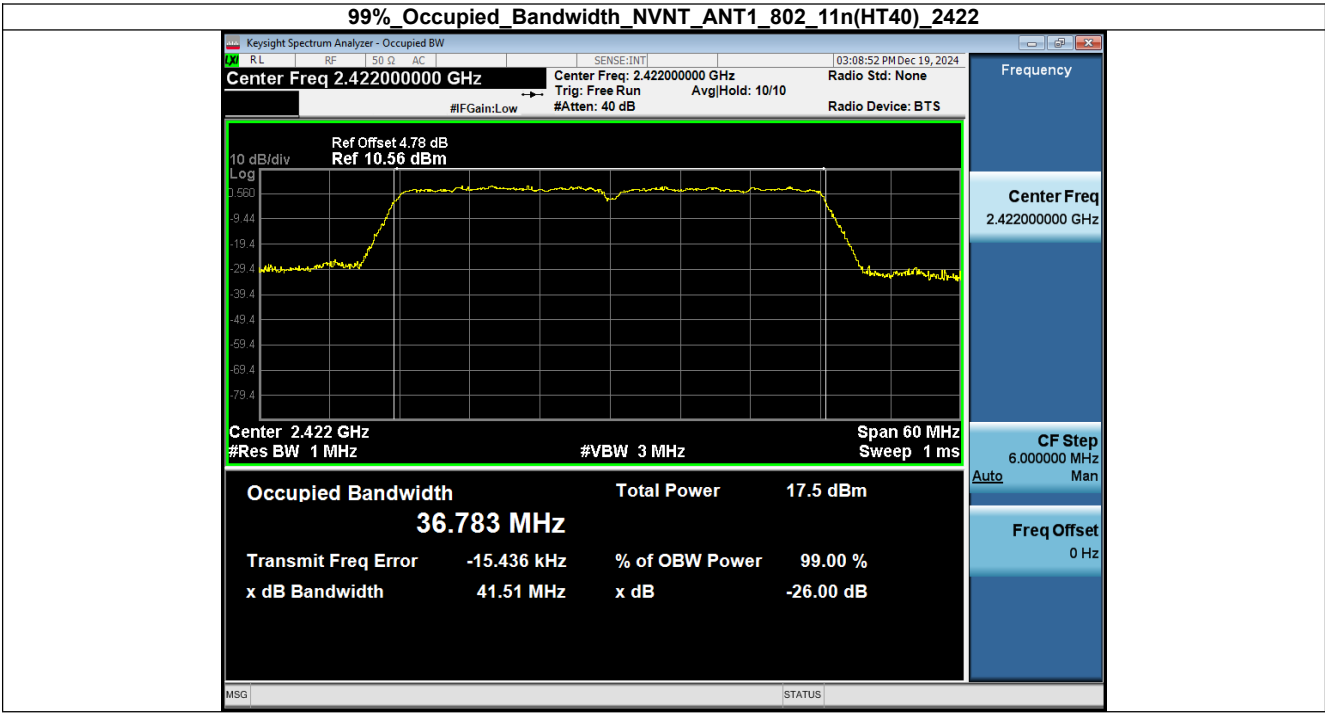
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462

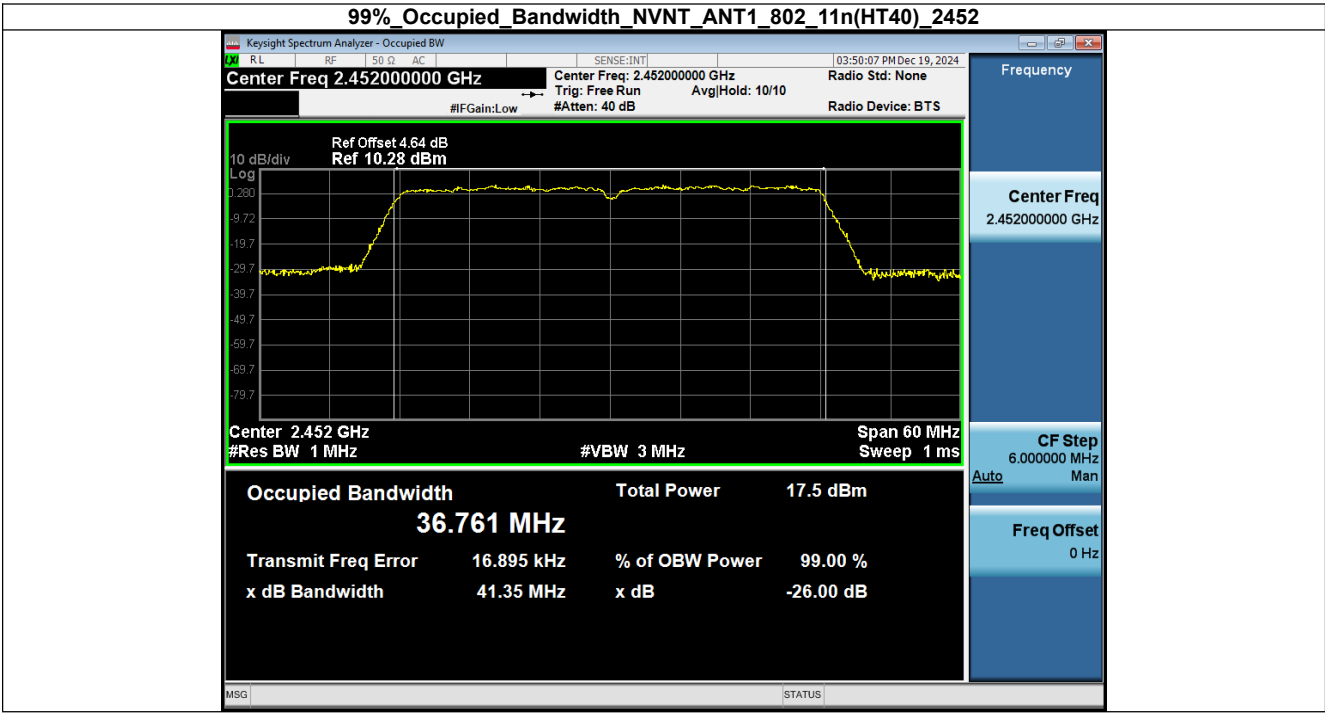


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



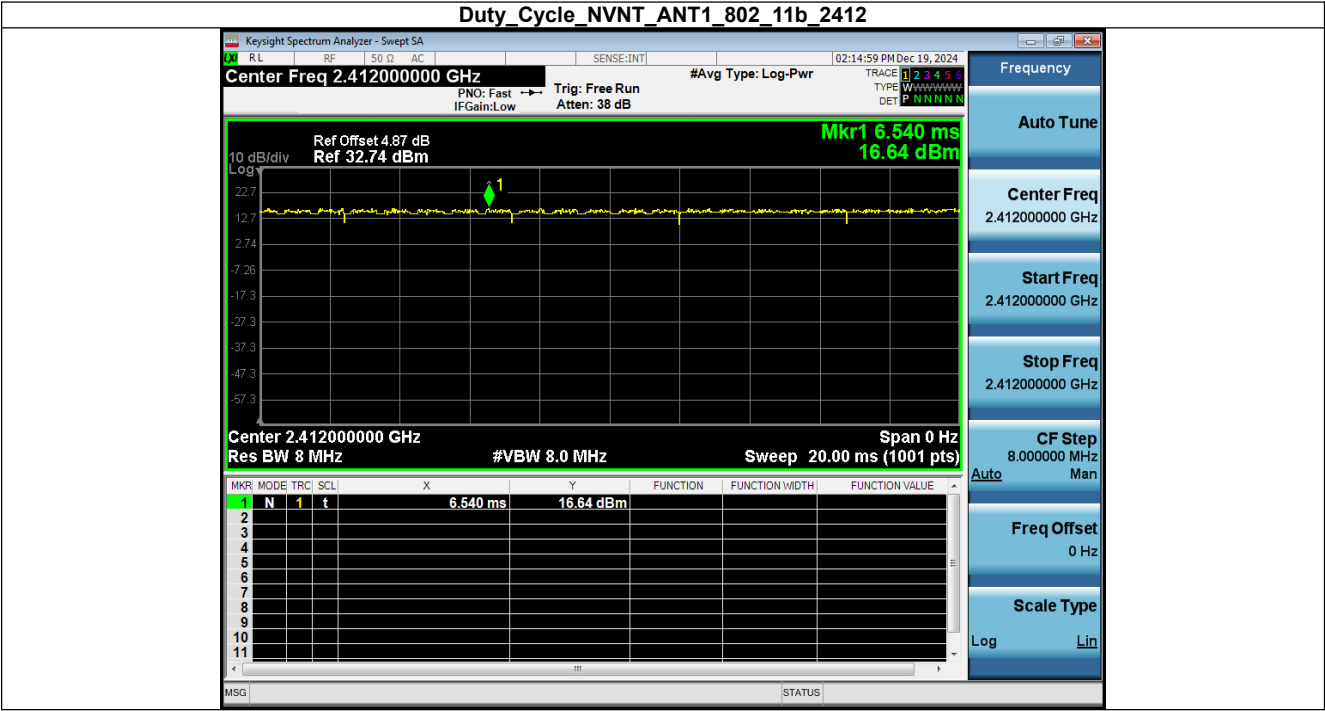




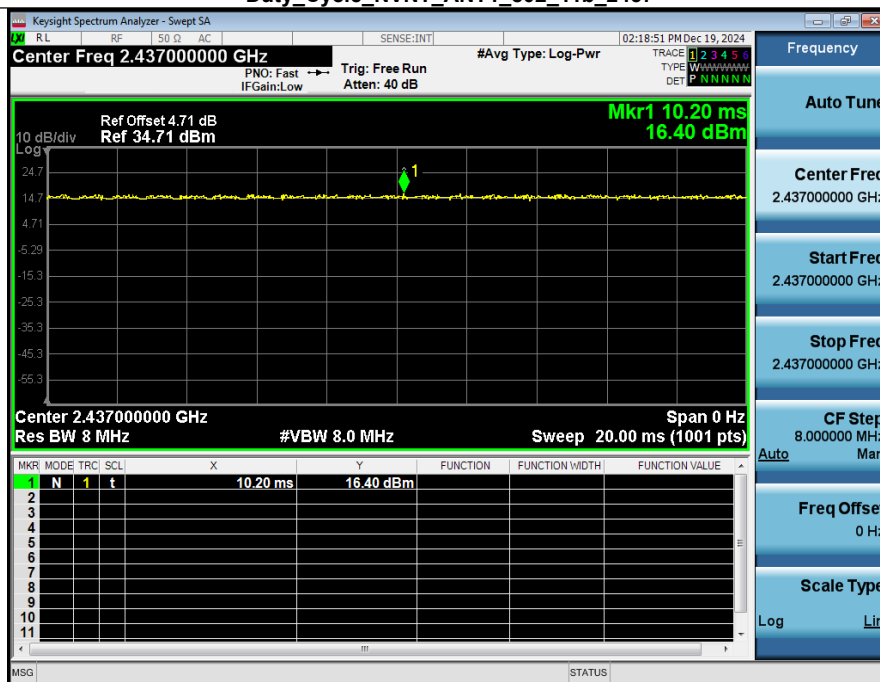


3. Duty Cycle

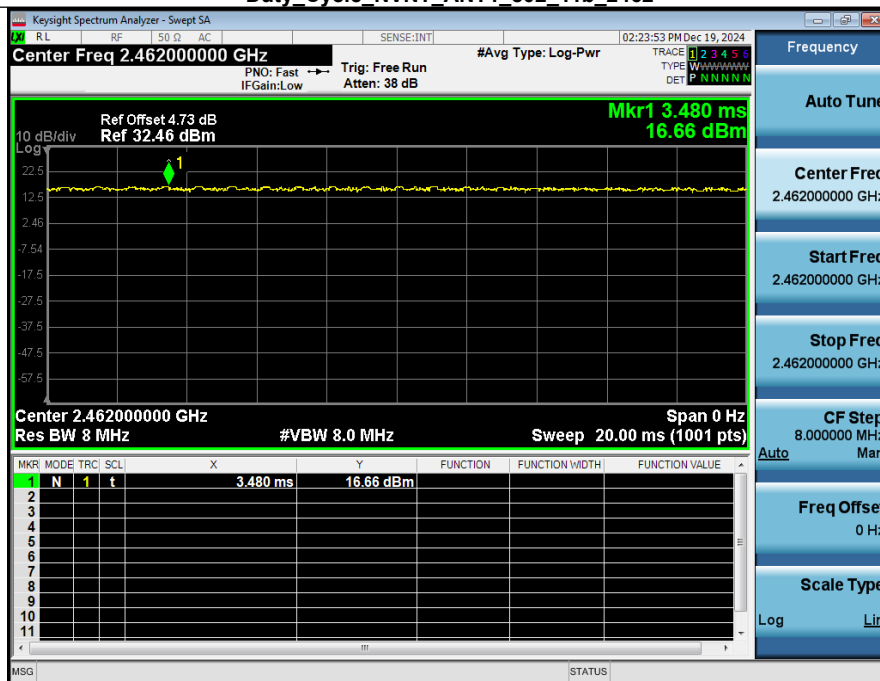
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00



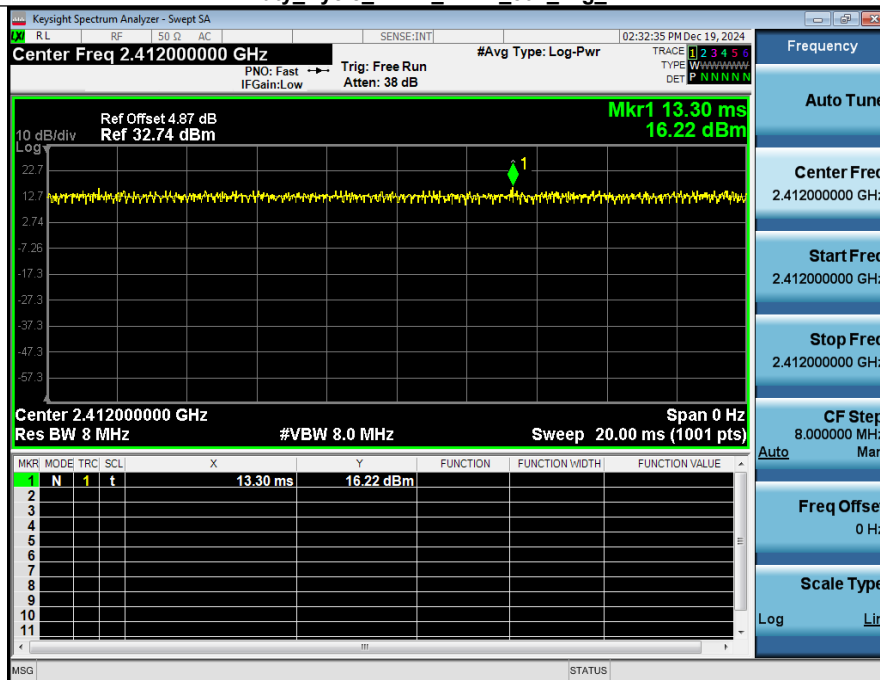
Duty Cycle NVNT_ANT1_802_11b_2437



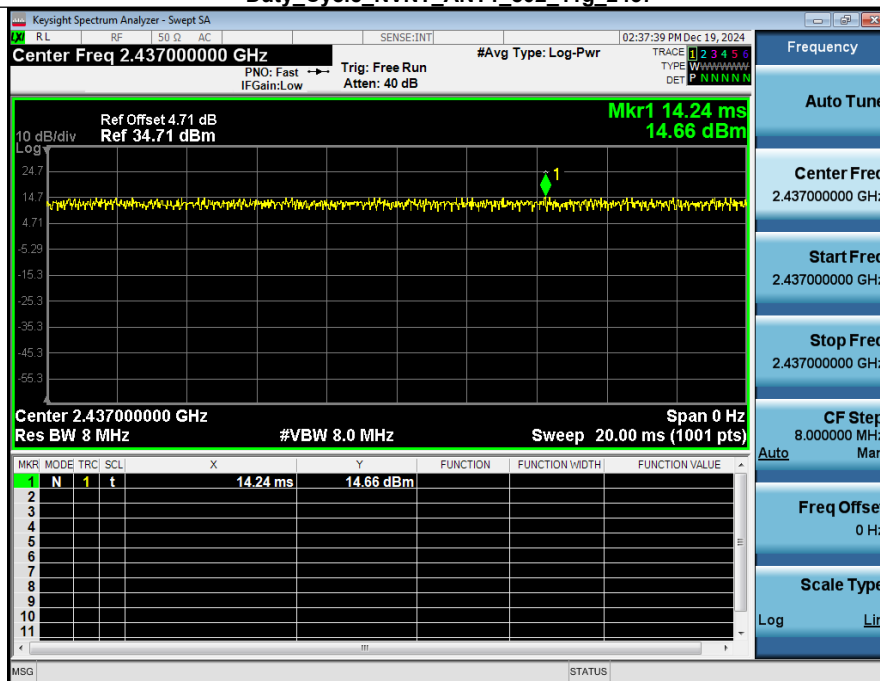
Duty Cycle NVNT_ANT1_802_11b_2462



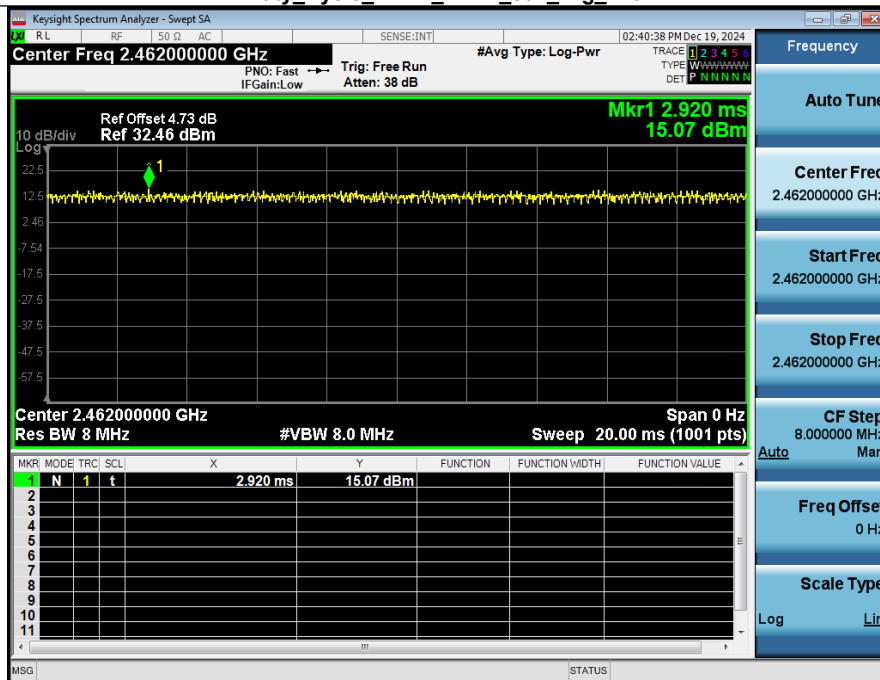
Duty Cycle NVNT_ANT1_802_11g_2412



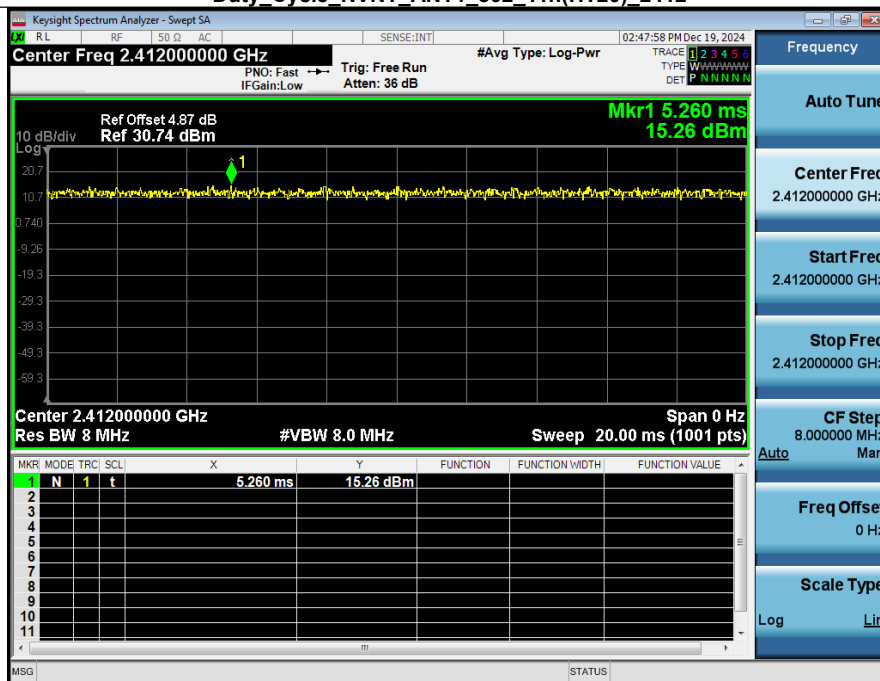
Duty Cycle NVNT_ANT1_802_11g_2437



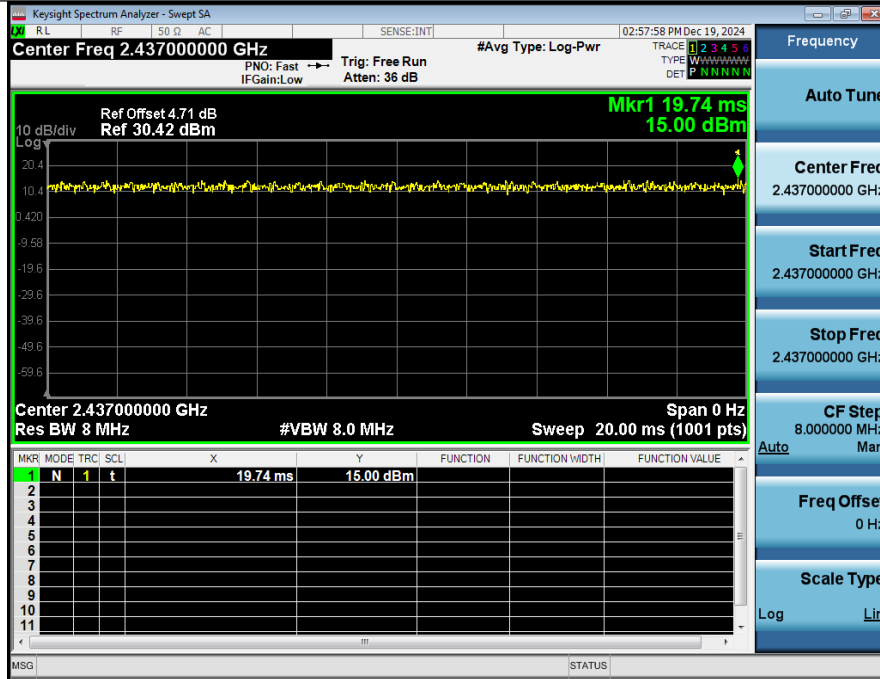
Duty Cycle NVNT_ANT1_802_11g_2462



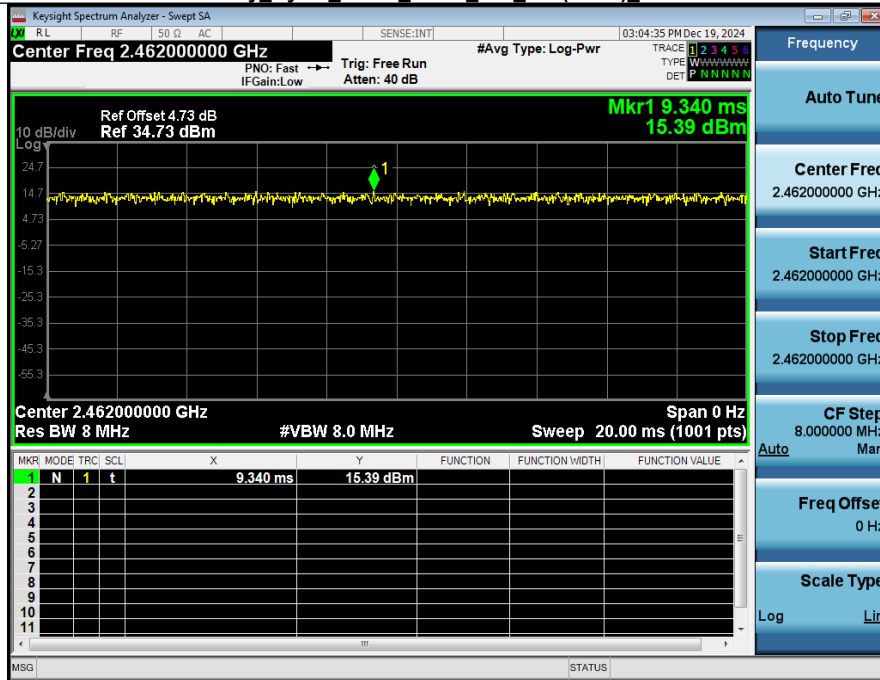
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



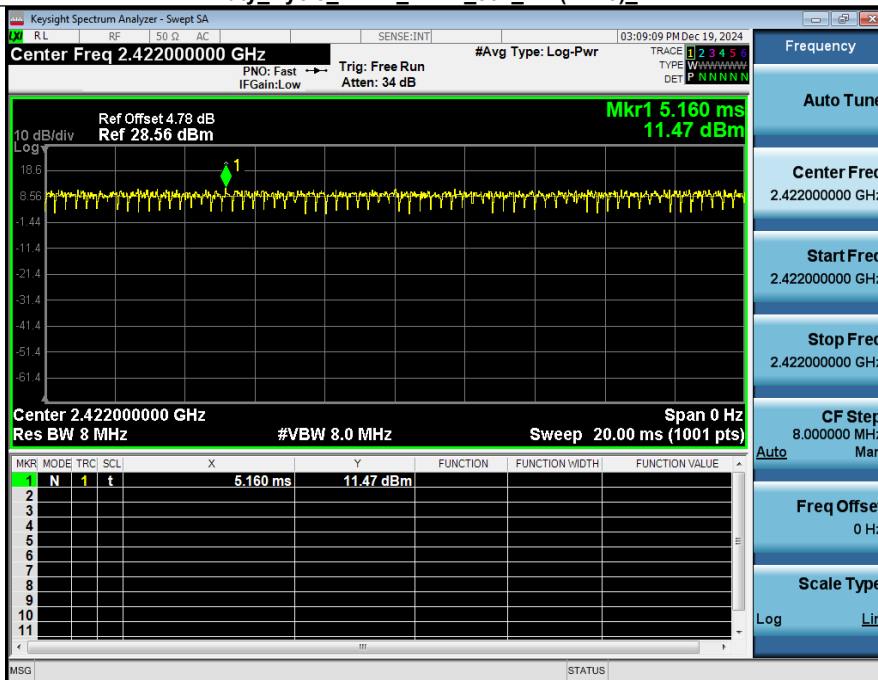
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



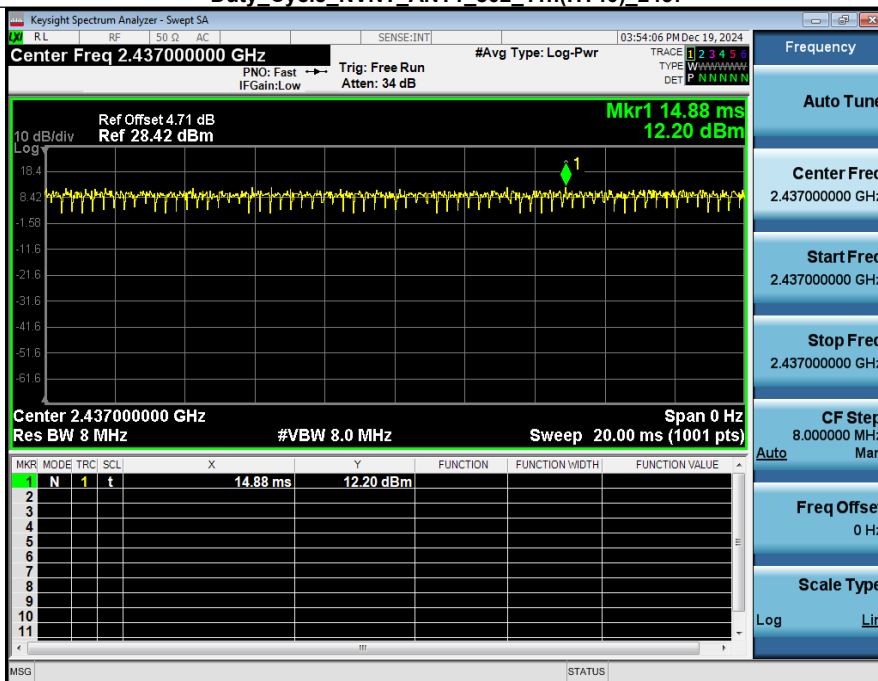
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



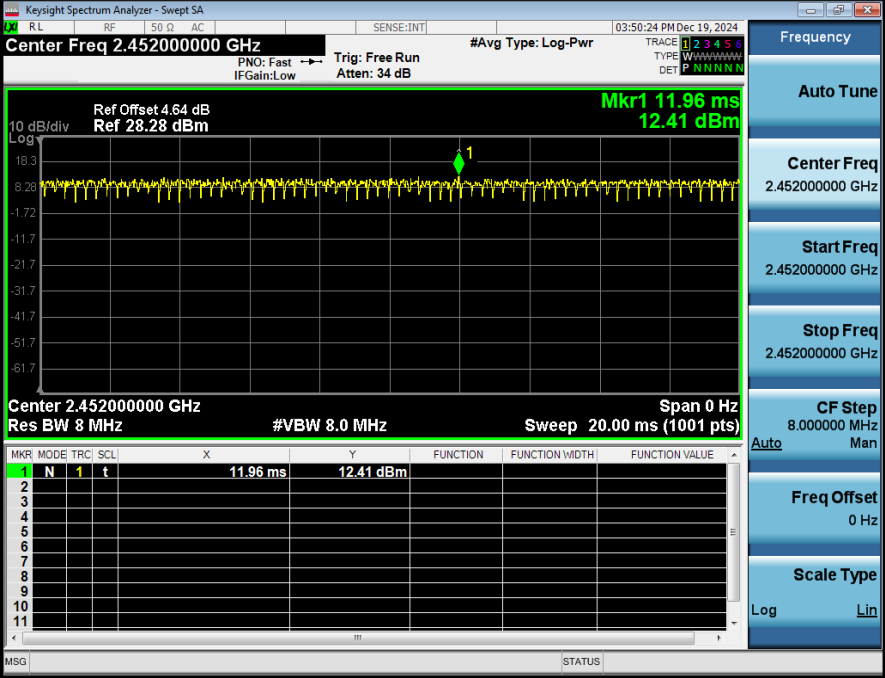
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437



Duty Cycle NVNT_ANT1_802_11n(HT40)_2452

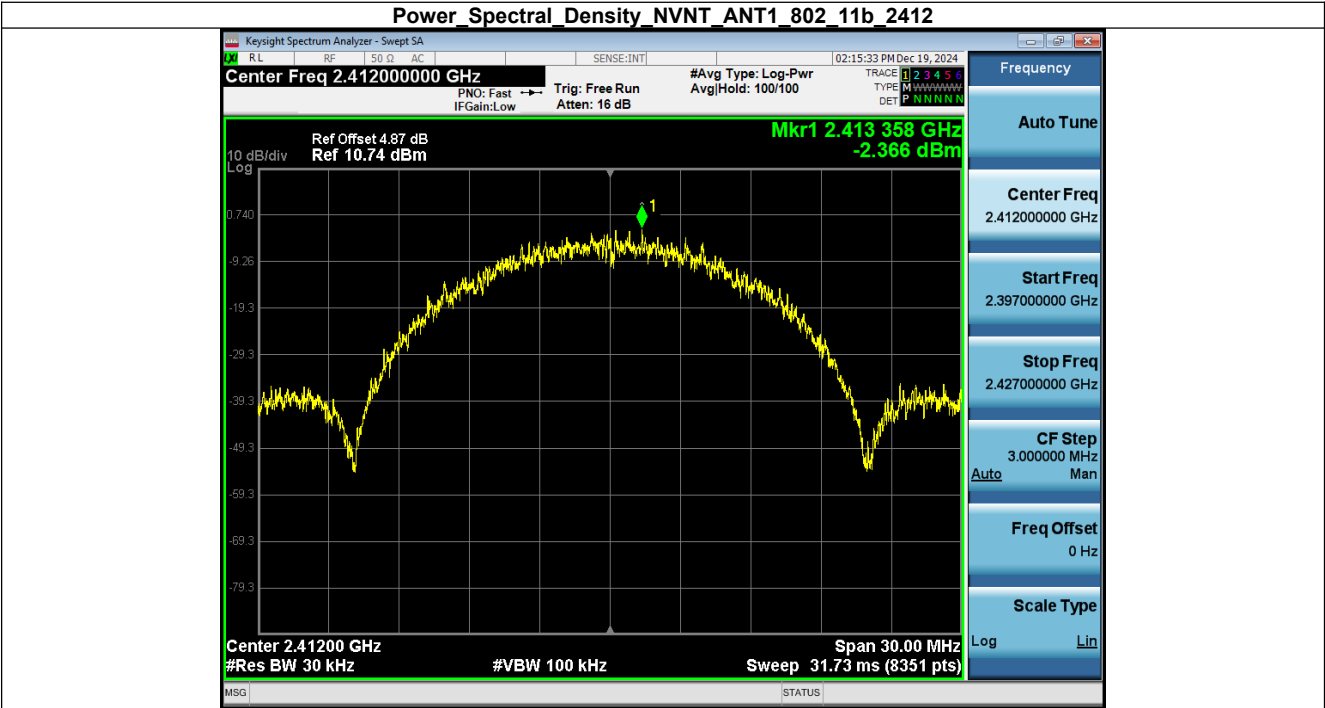


4. MAX. Output Power

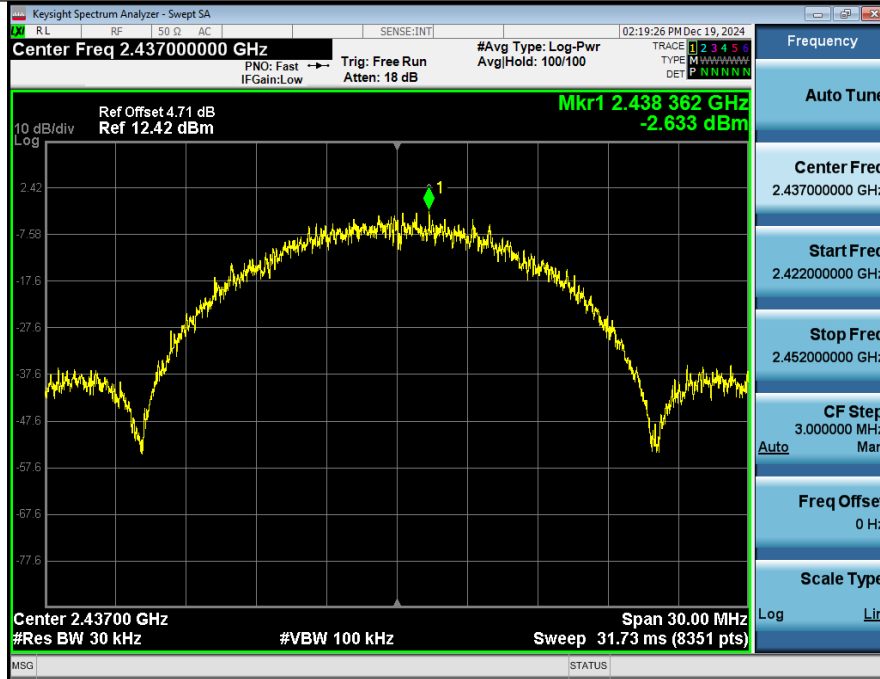
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Peak Output Power (dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	18.02	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	17.71	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	18.28	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	15.84	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	15.55	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	16.11	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	15.98	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	15.79	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	16.36	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	16.64	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	16.54	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	16.68	30	Pass

5. Power Spectral Density

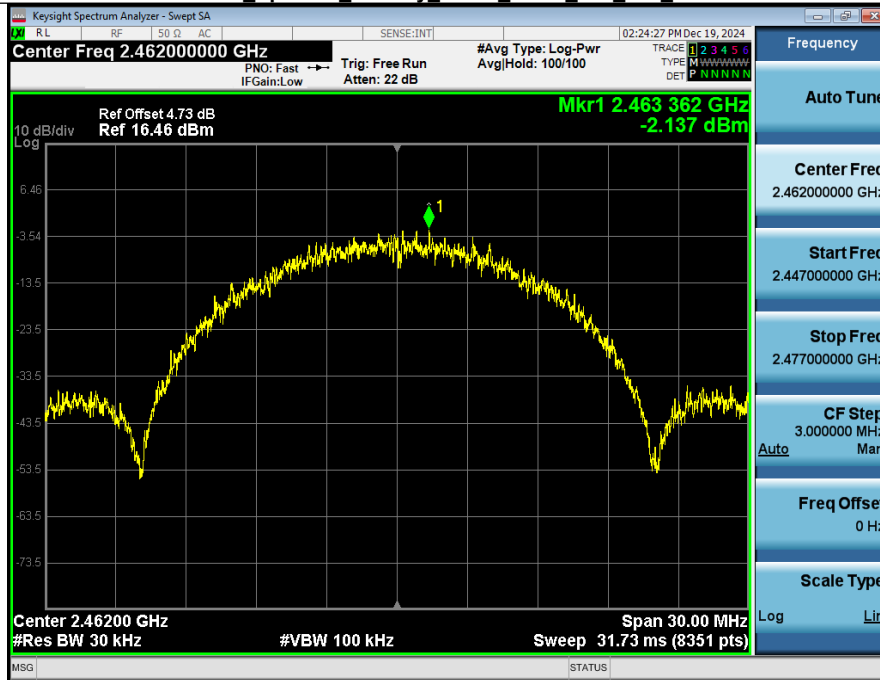
Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-2.37	N/A	-10.00	-12.37	8	Pass
NVNT	ANT1	802.11b	2437.00	-2.63	N/A	-10.00	-12.63	8	Pass
NVNT	ANT1	802.11b	2462.00	-2.14	N/A	-10.00	-12.14	8	Pass
NVNT	ANT1	802.11g	2412.00	-6.69	N/A	-10.00	-16.69	8	Pass
NVNT	ANT1	802.11g	2437.00	-7.25	N/A	-10.00	-17.25	8	Pass
NVNT	ANT1	802.11g	2462.00	-7.33	N/A	-10.00	-17.34	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.78	N/A	-10.00	-17.77	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-7.70	N/A	-10.00	-17.70	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-7.07	N/A	-10.00	-17.07	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-10.10	N/A	-10.00	-20.10	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-10.10	N/A	-10.00	-20.10	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-9.89	N/A	-10.00	-19.89	8	Pass



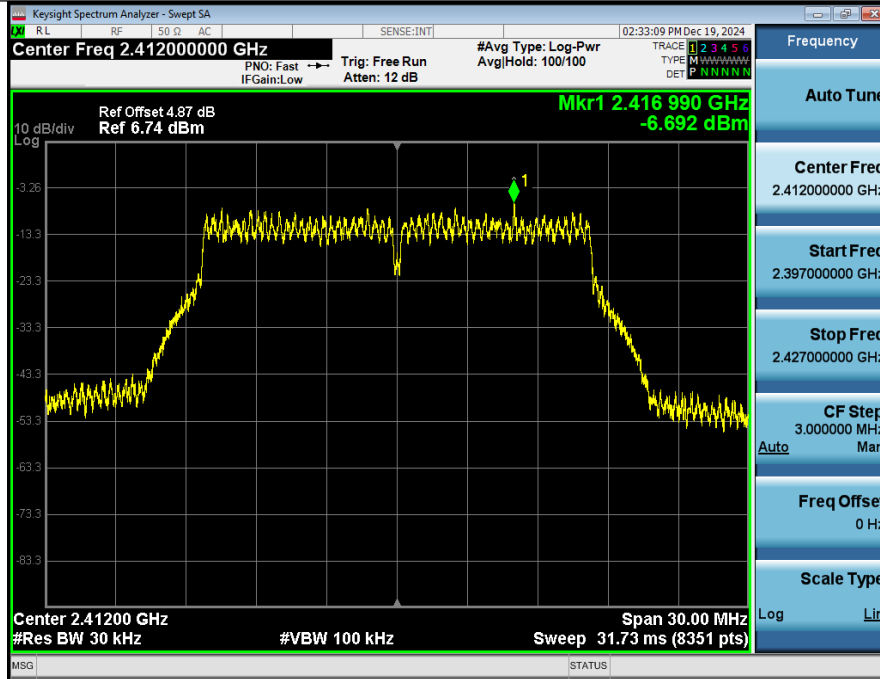
Power Spectral Density NVNT_ANT1_802_11b_2437



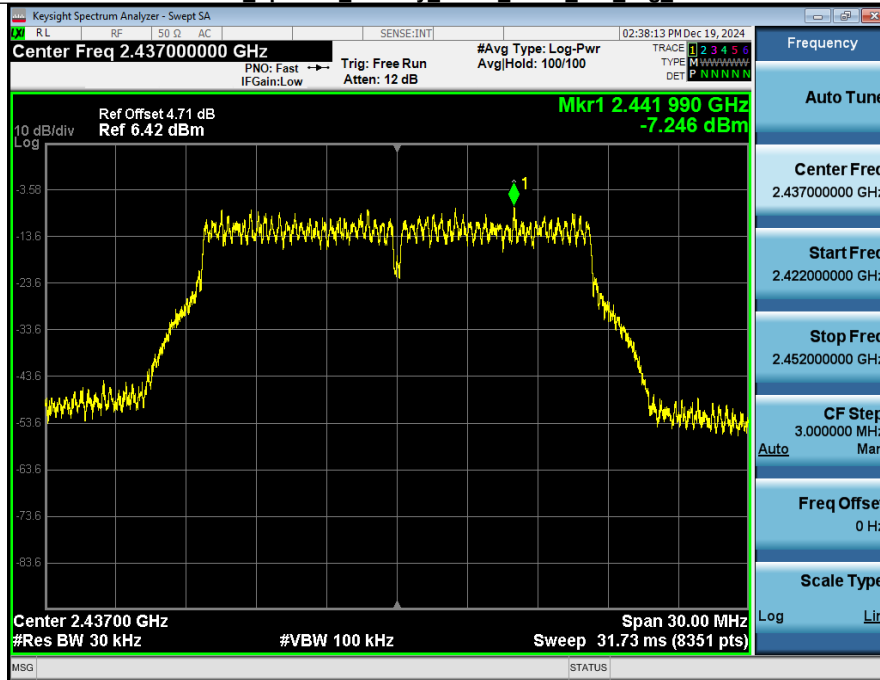
Power Spectral Density NVNT_ANT1_802_11b_2462



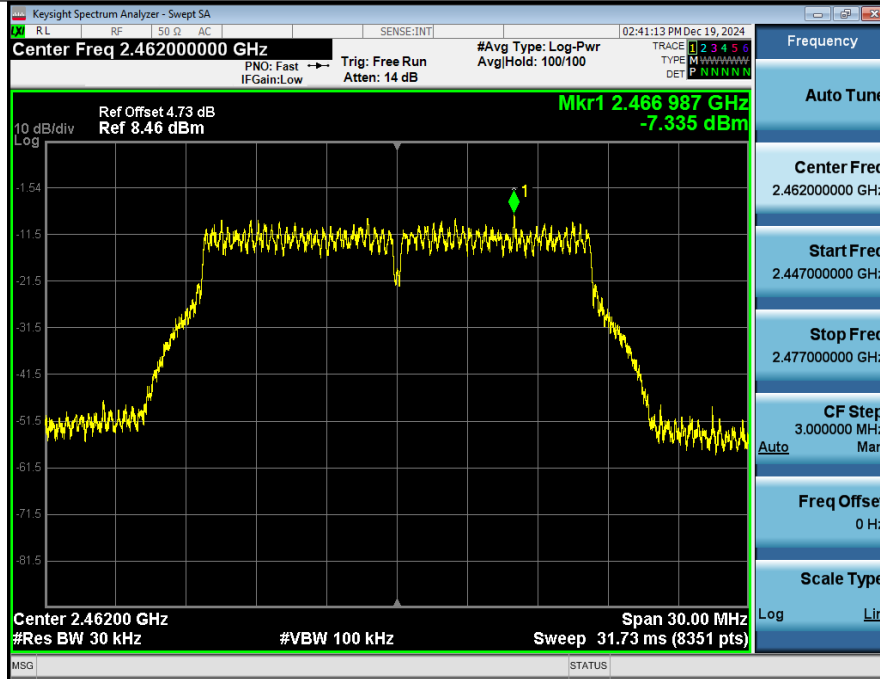
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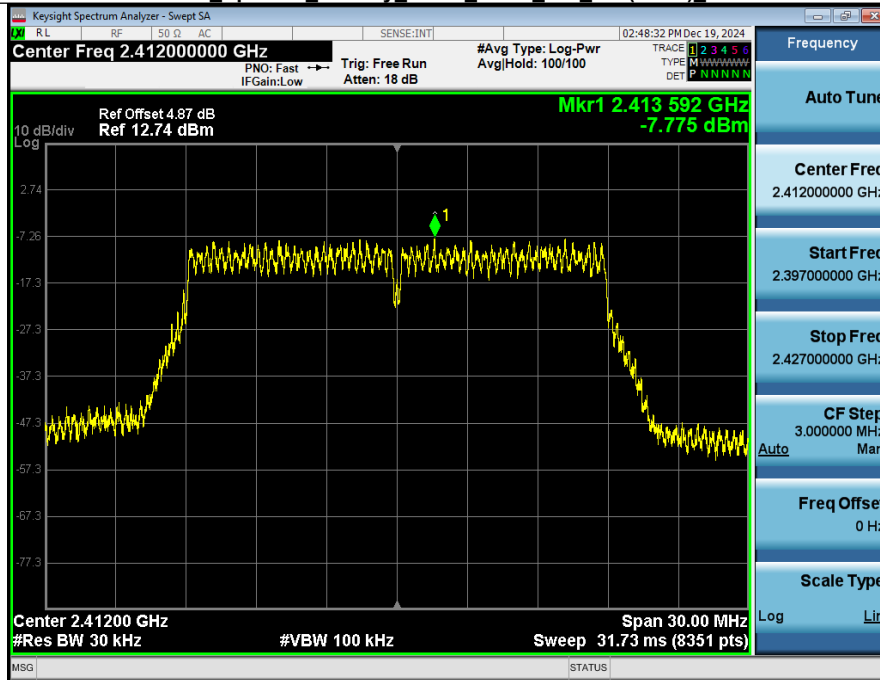
Power Spectral Density NVNT_ANT1_802_11g_2437



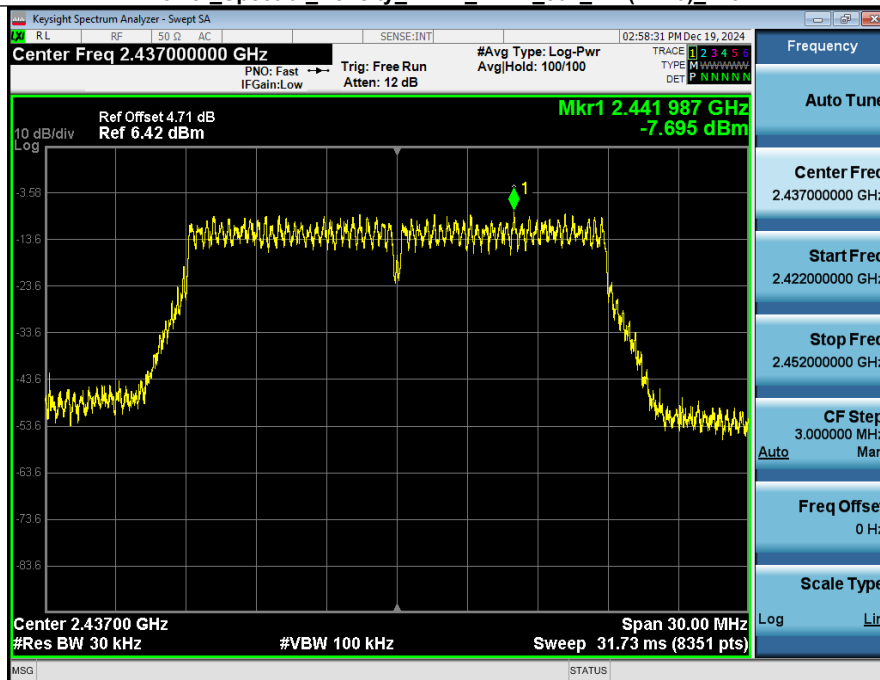
Power Spectral Density_NVNT_ANT1_802_11g_2462



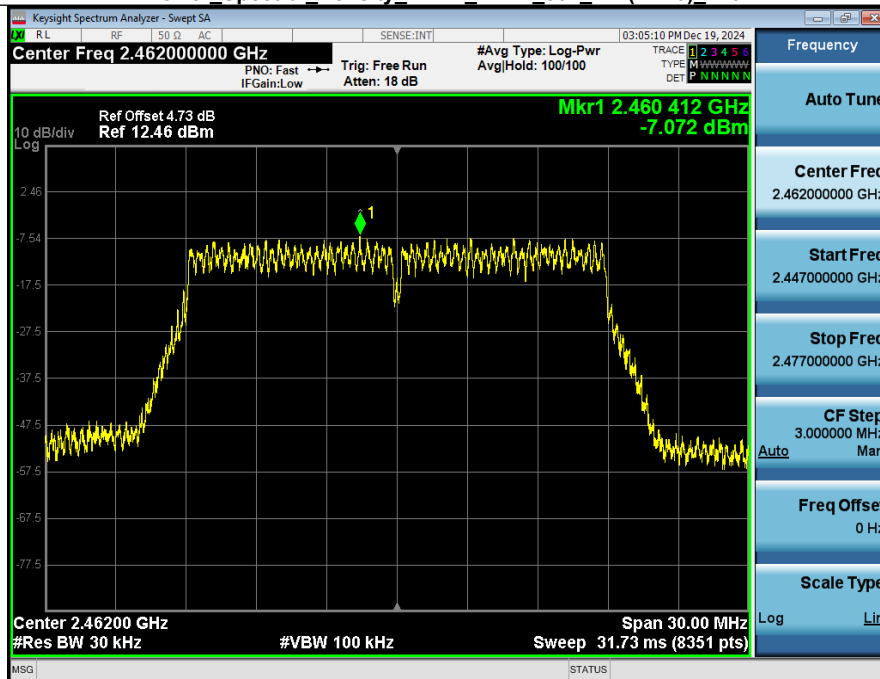
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



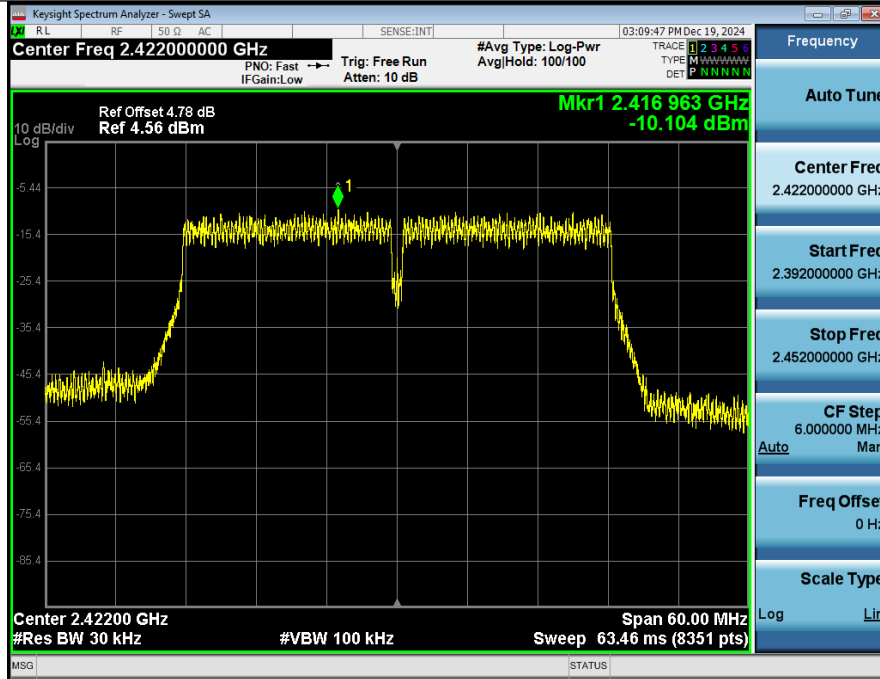
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437



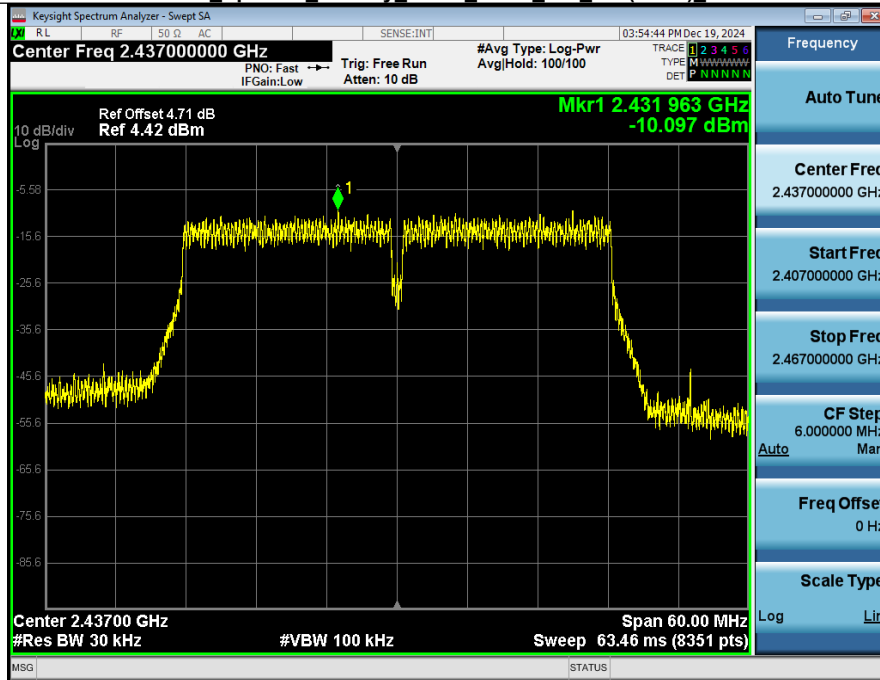
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2462



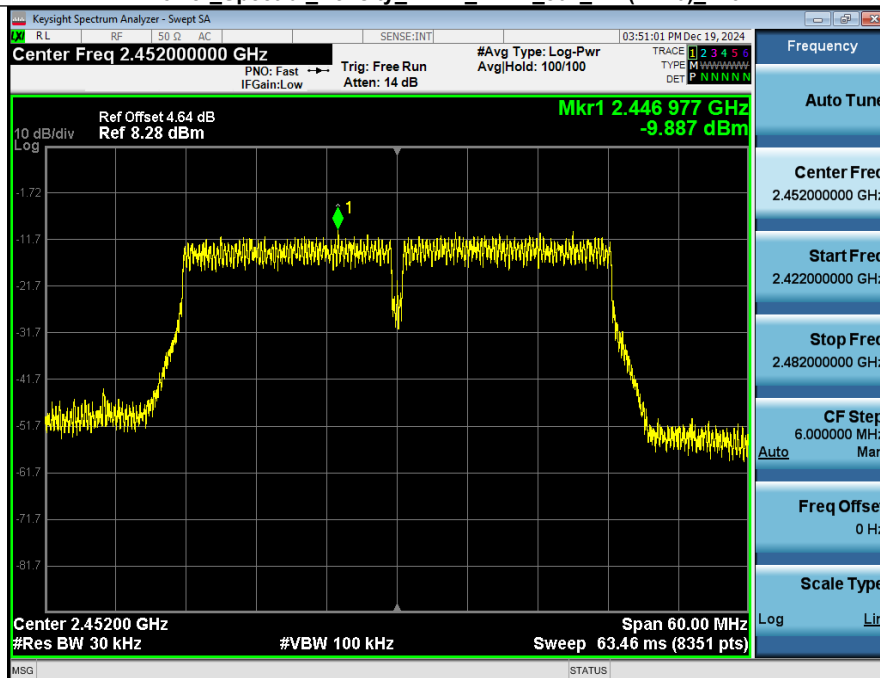
Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2437

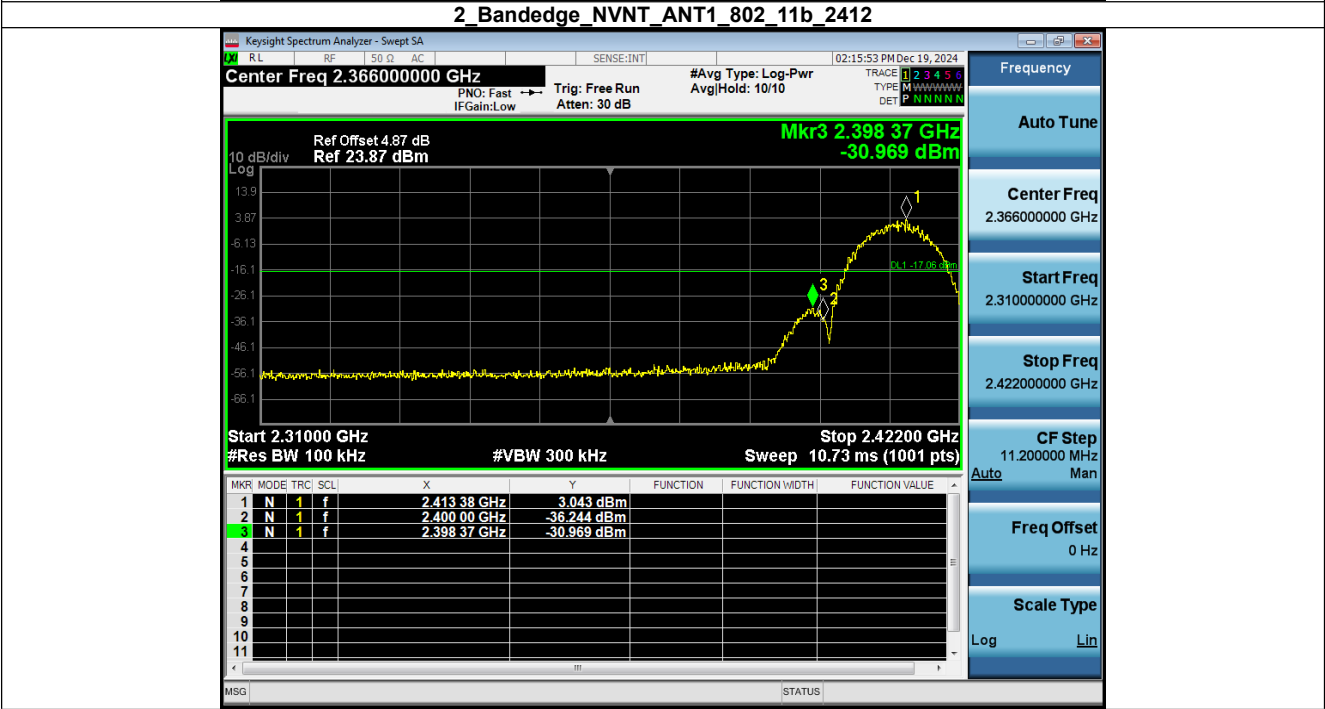
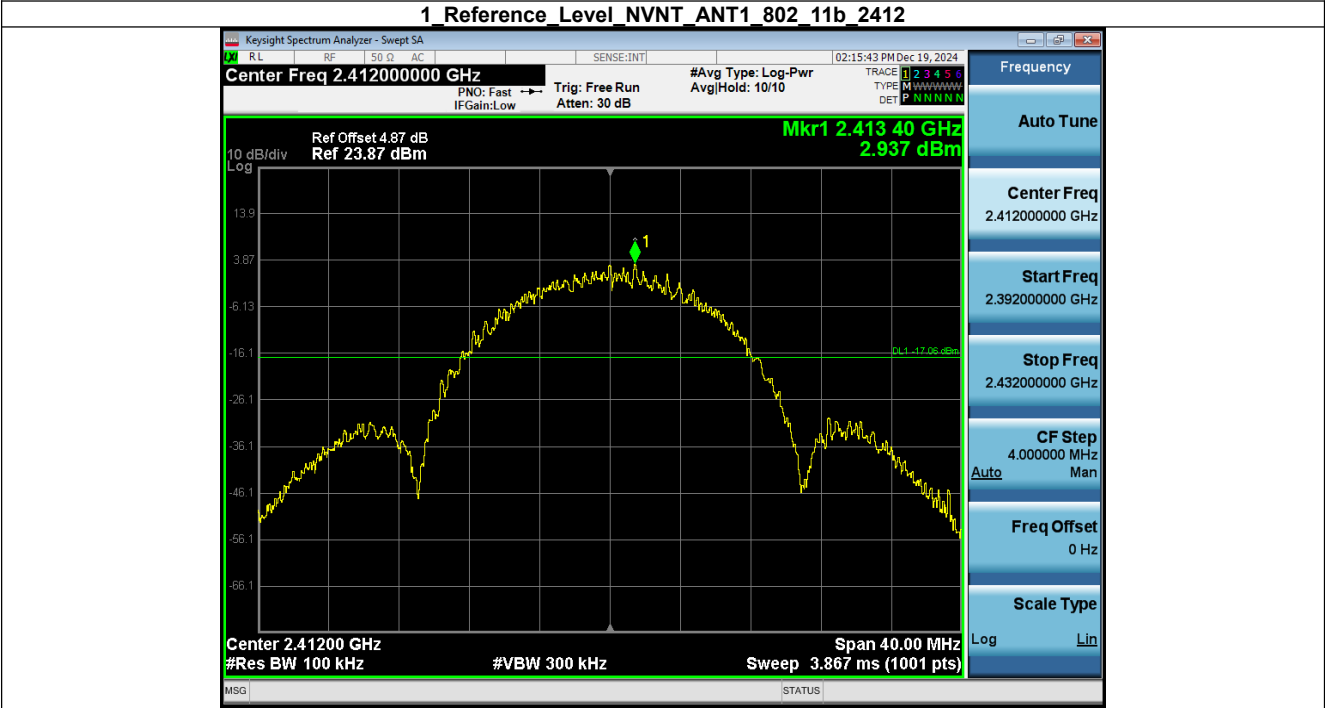


Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2452



6. Bandedge

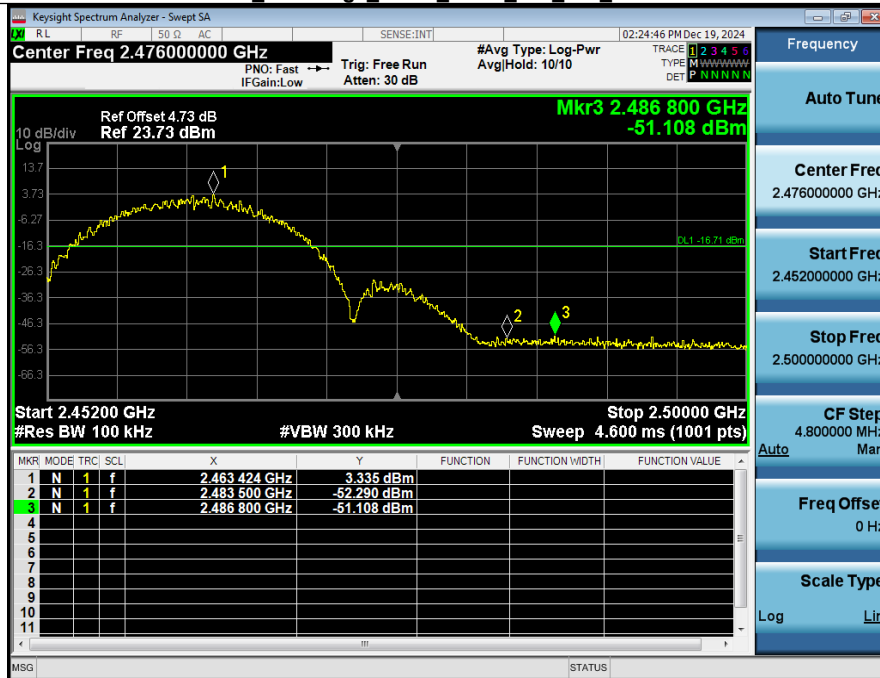
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.368	-30.969	-17.063	Pass
NVNT	ANT1	802.11b	2462.00	2486.800	-51.108	-16.711	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	-39.306	-22.488	Pass
NVNT	ANT1	802.11g	2462.00	2486.992	-47.370	-22.773	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	-39.229	-22.868	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2486.992	-46.815	-22.104	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2396.988	-36.710	-24.714	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.748	-46.118	-24.515	Pass



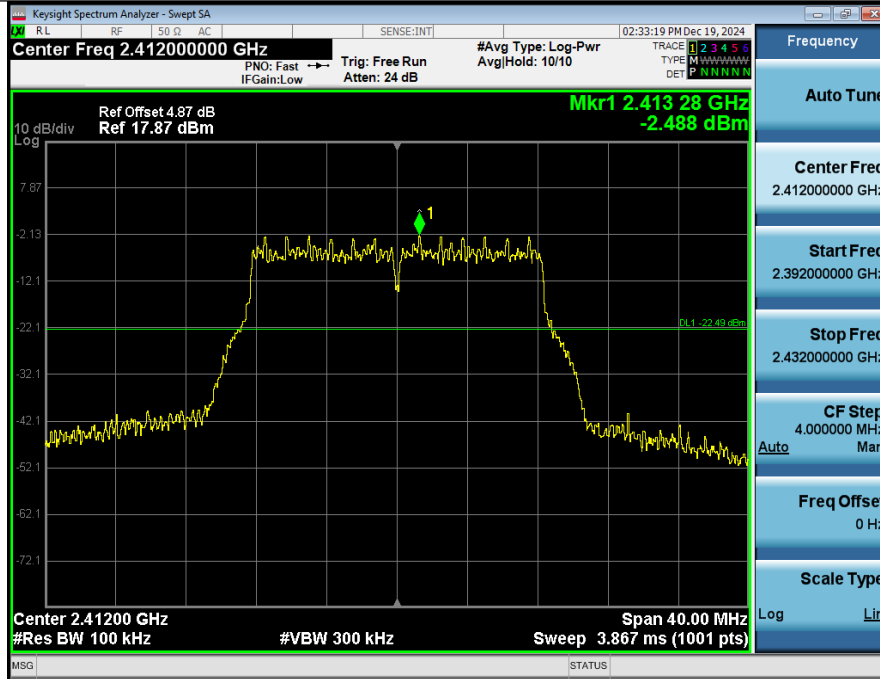
1 Reference Level_NVNT_ANT1_802_11b_2462



2 Bandedge_NVNT_ANT1_802_11b_2462



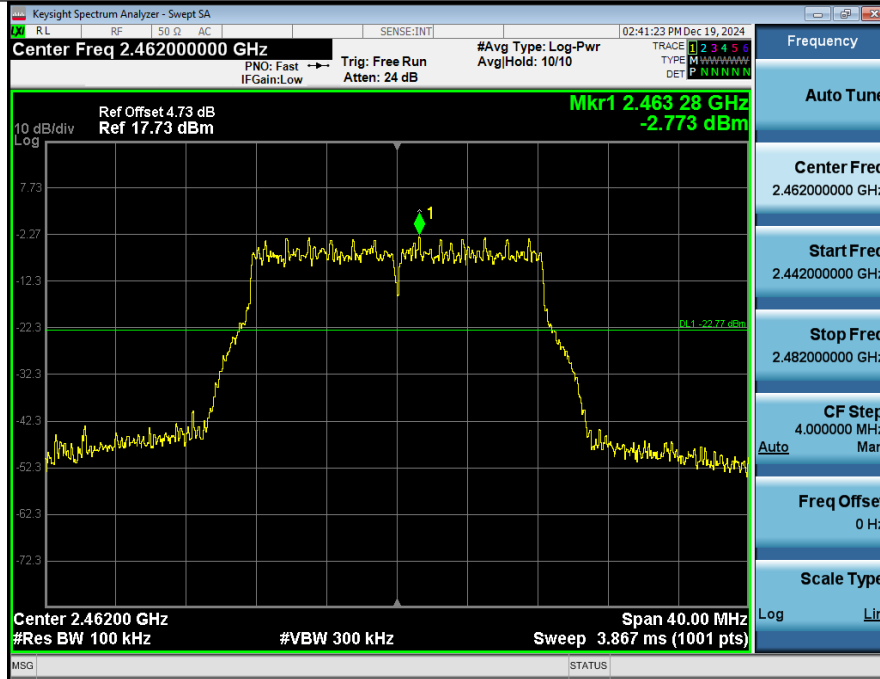
1 Reference_Level_NVNT_ANT1_802_11g_2412



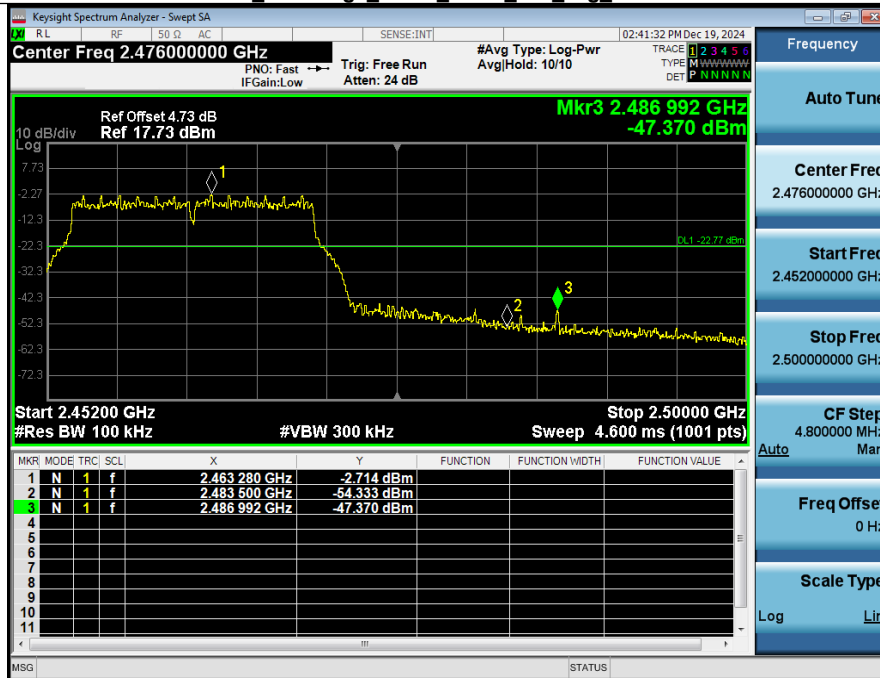
2 Bandedge_NVNT_ANT1_802_11g_2412



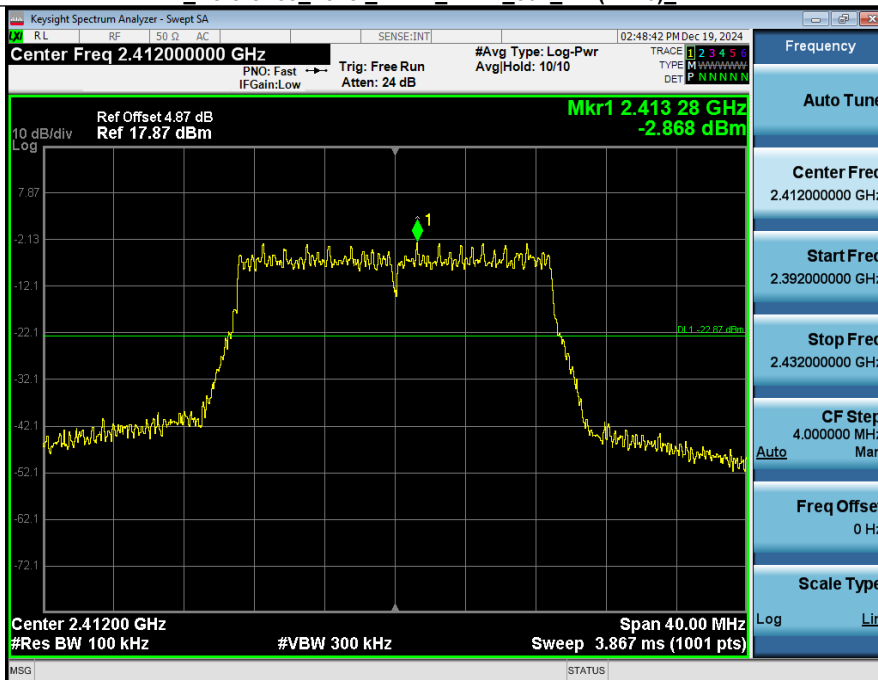
1 Reference Level_NVNT_ANT1_802_11g_2462



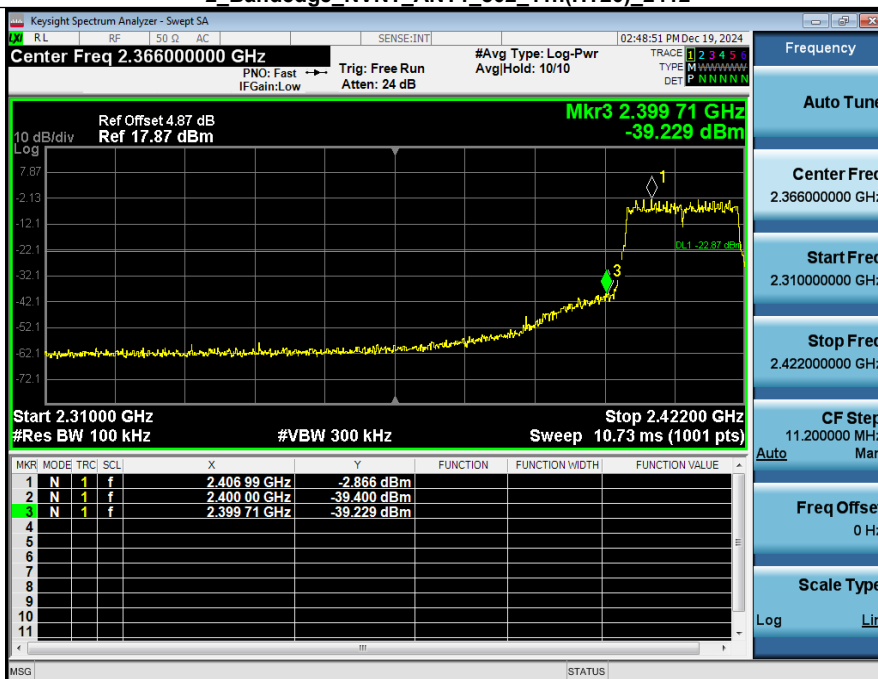
2 Bandedge_NVNT_ANT1_802_11g_2462



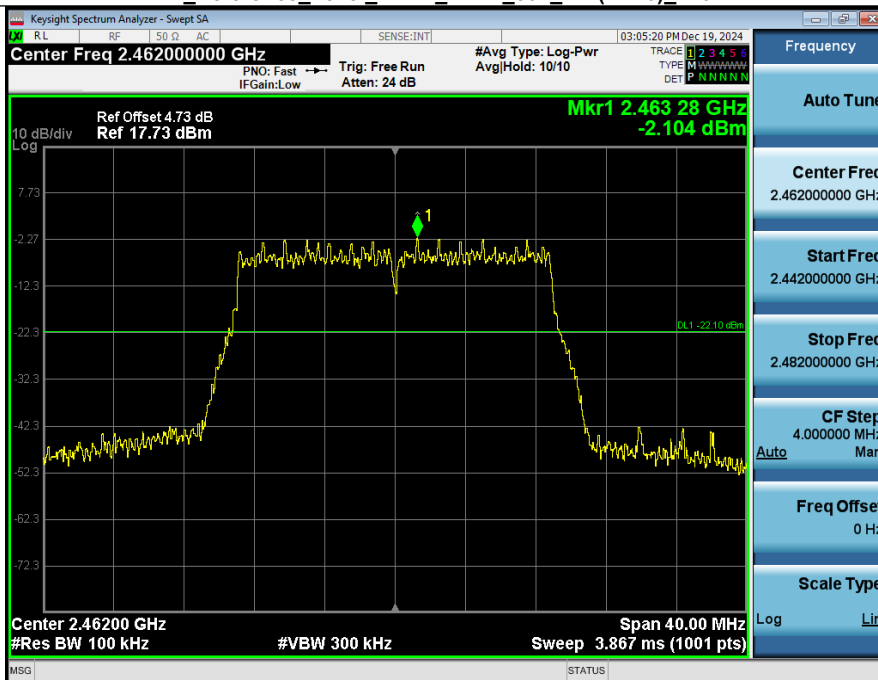
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



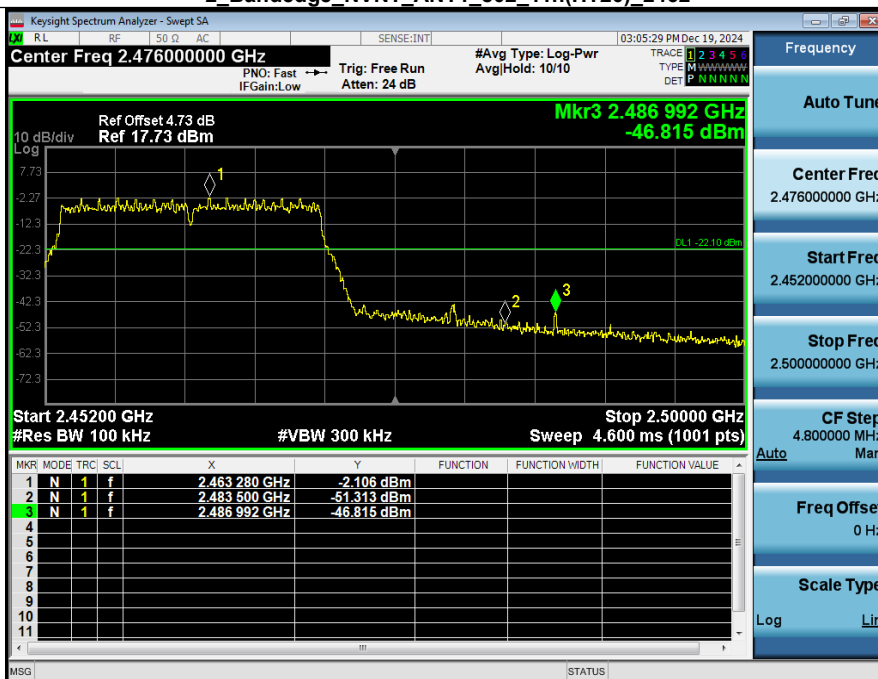
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



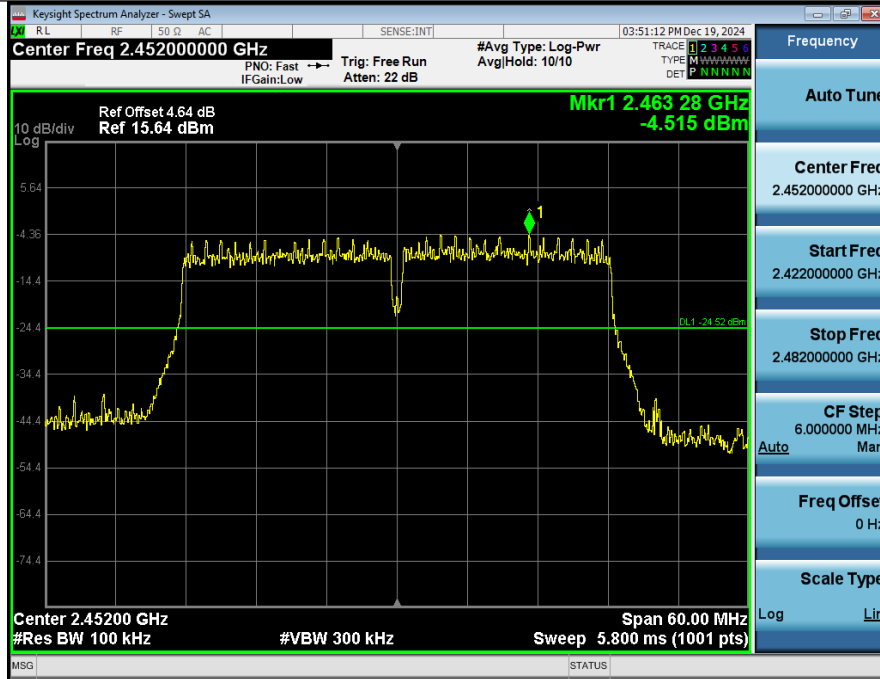
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



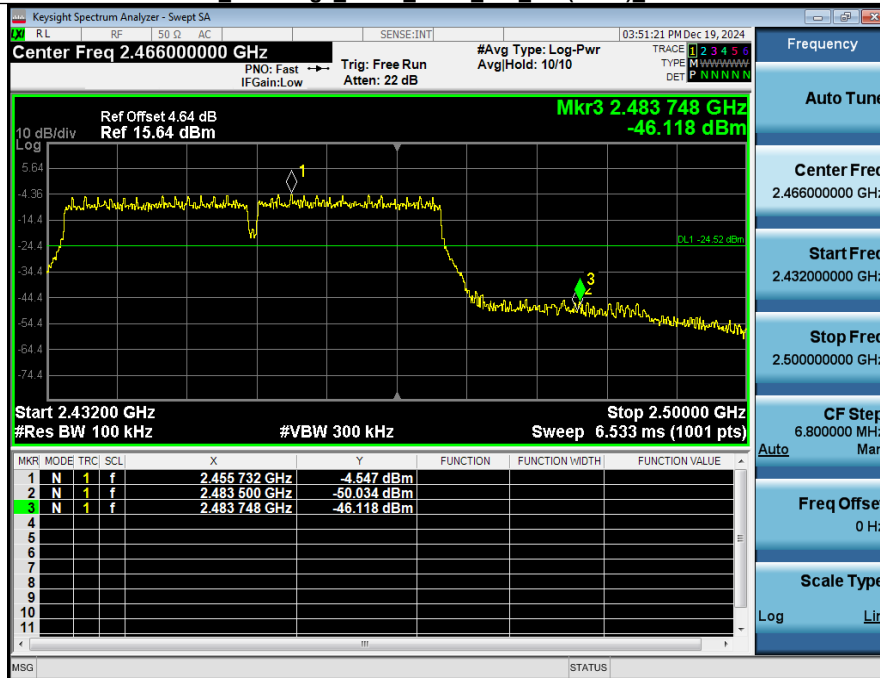
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452

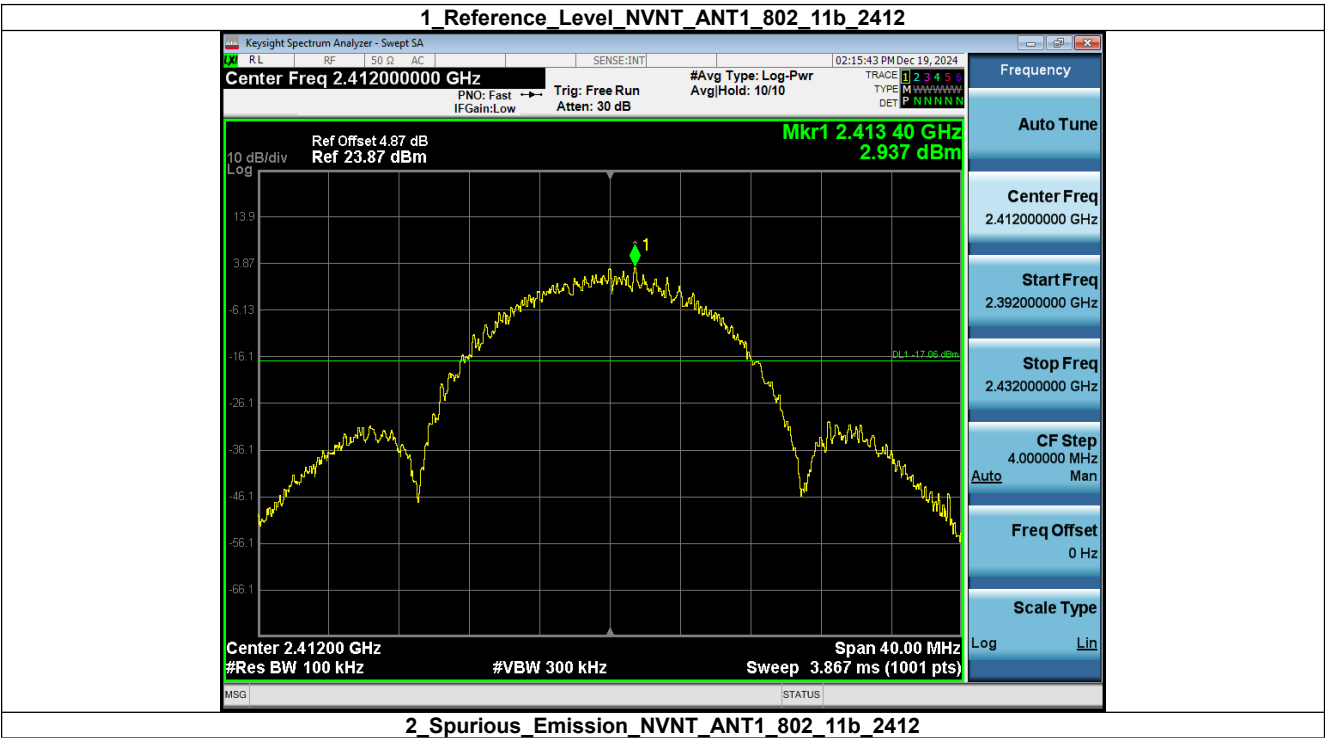


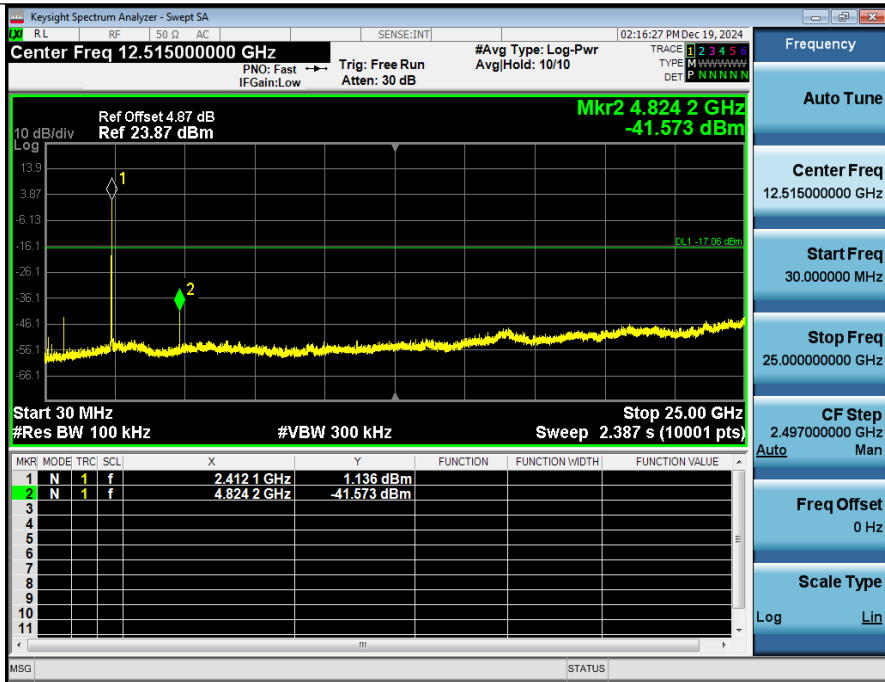
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



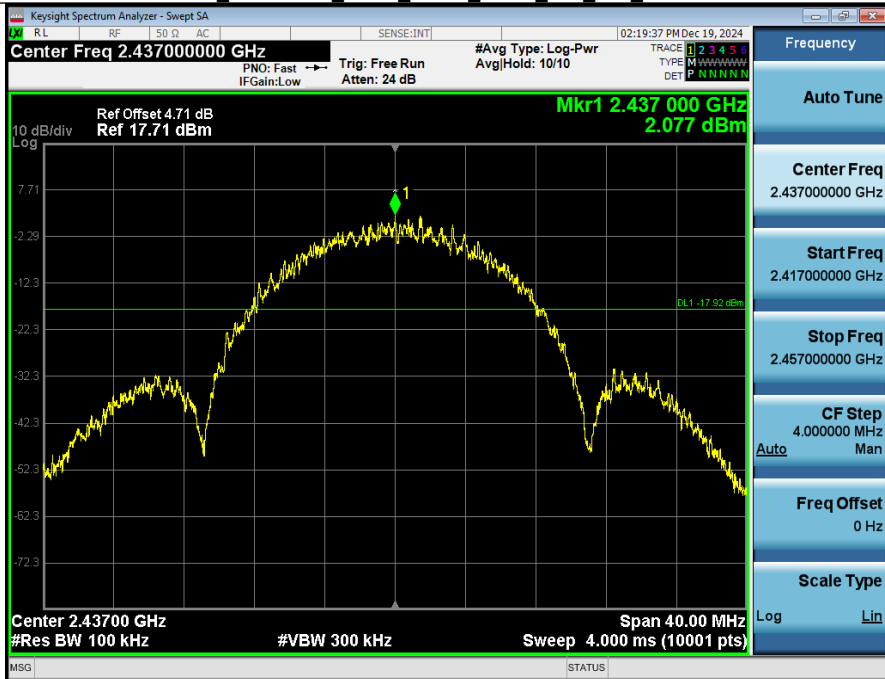
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	4824.240	-41.573	-17.063	Pass
NVNT	ANT1	802.11b	2437.00	719.172	-41.351	-17.923	Pass
NVNT	ANT1	802.11b	2462.00	4924.120	-41.362	-16.711	Pass
NVNT	ANT1	802.11g	2412.00	24957.551	-48.403	-22.488	Pass
NVNT	ANT1	802.11g	2437.00	724.166	-38.994	-22.749	Pass
NVNT	ANT1	802.11g	2462.00	24925.090	-47.150	-22.773	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24977.527	-48.733	-22.868	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	724.166	-46.098	-22.876	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	711.681	-39.184	-22.104	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	704.190	-36.096	-24.714	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	721.669	-38.061	-25.072	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	704.190	-28.141	-24.515	Pass

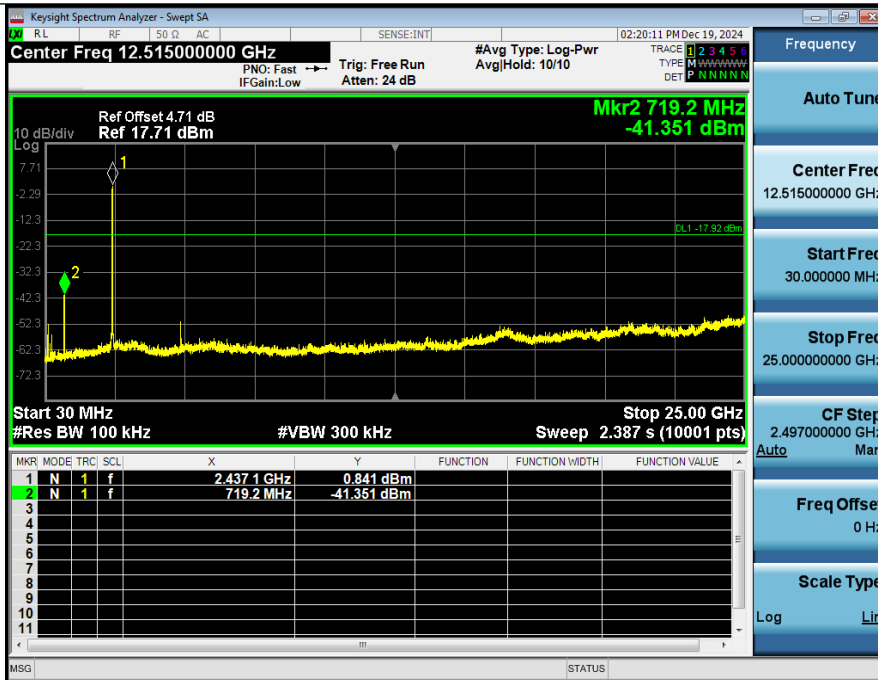




1 Reference Level NVNT_ANT1_802_11b_2437



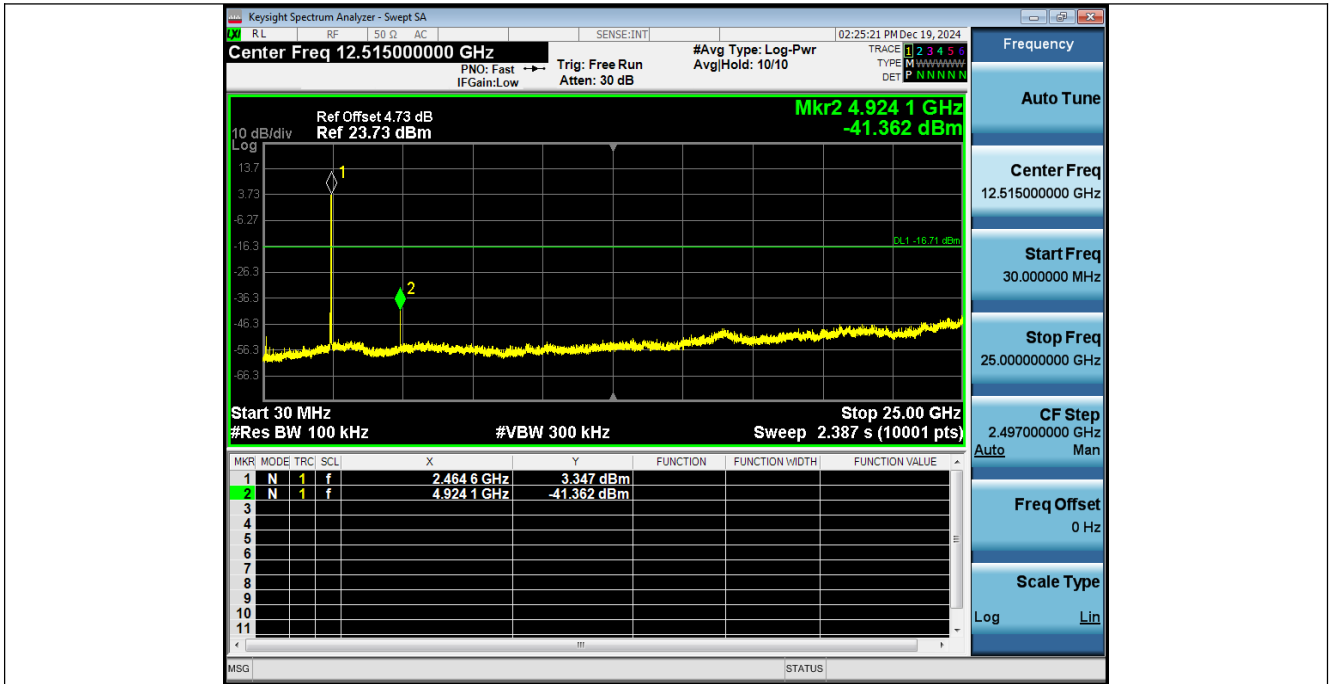
2 Spurious_Emission_NVNT_ANT1_802_11b_2437



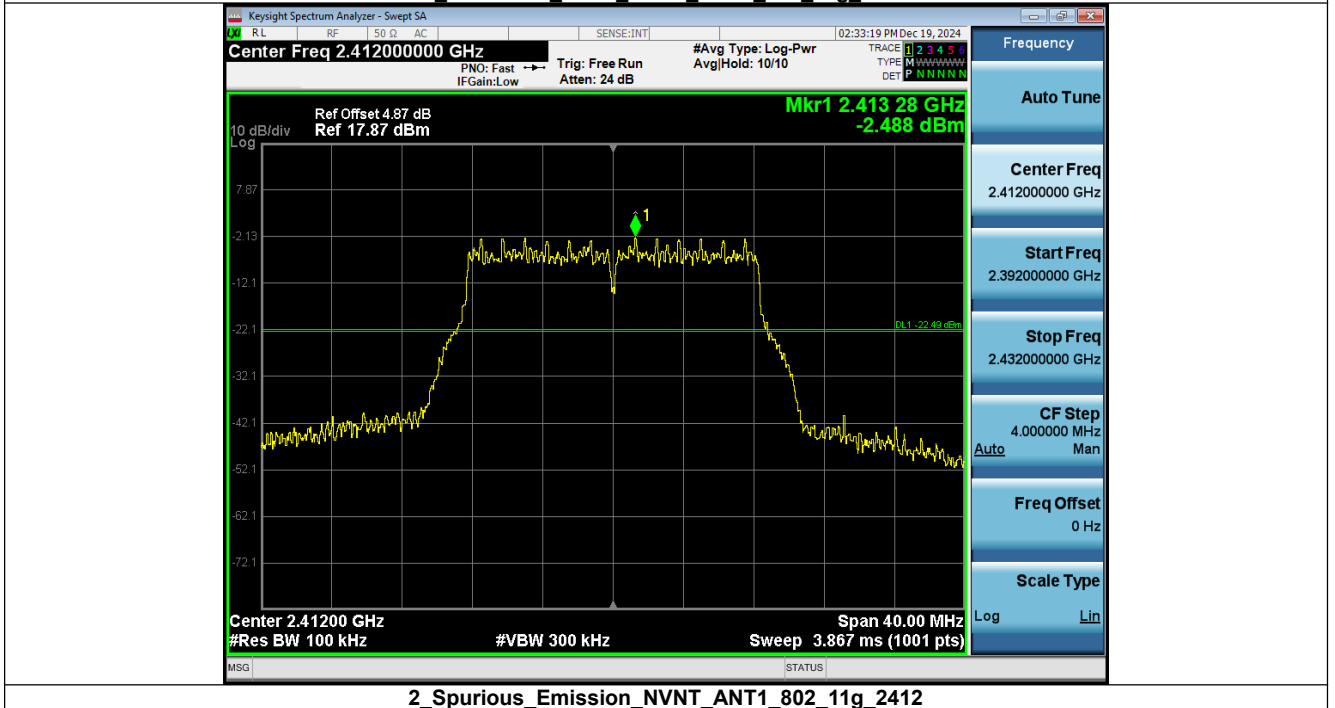
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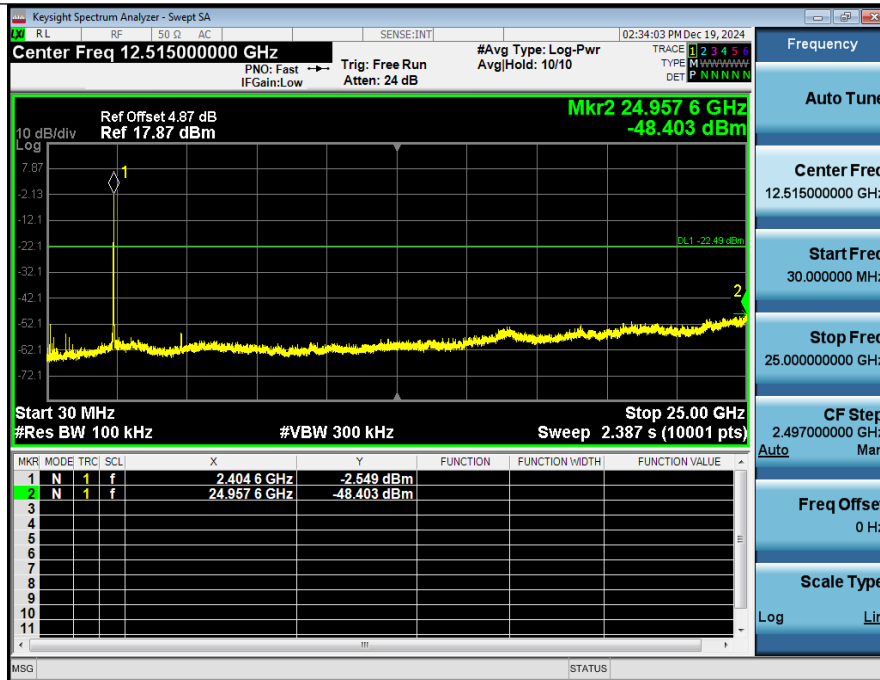
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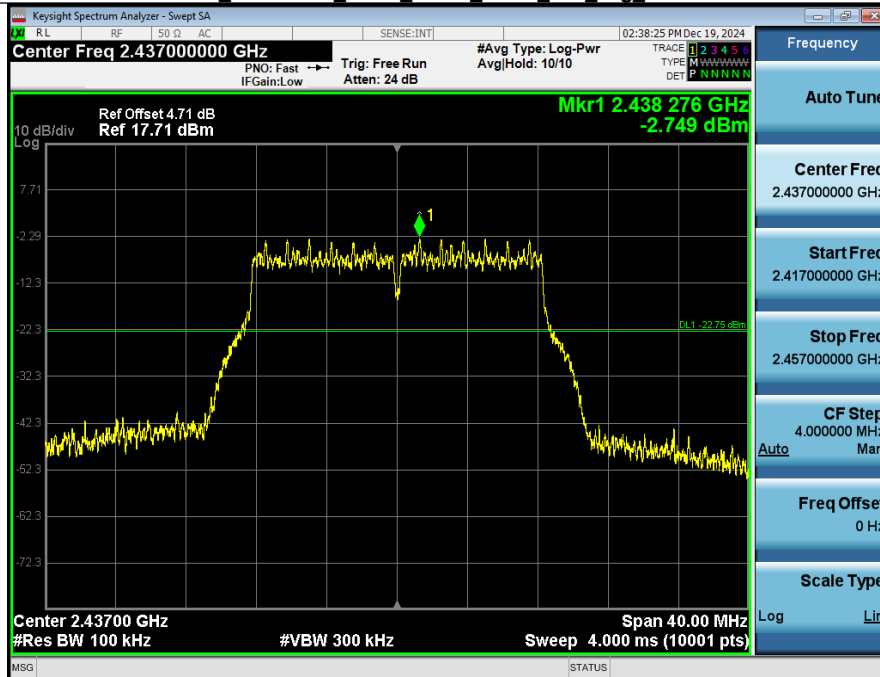
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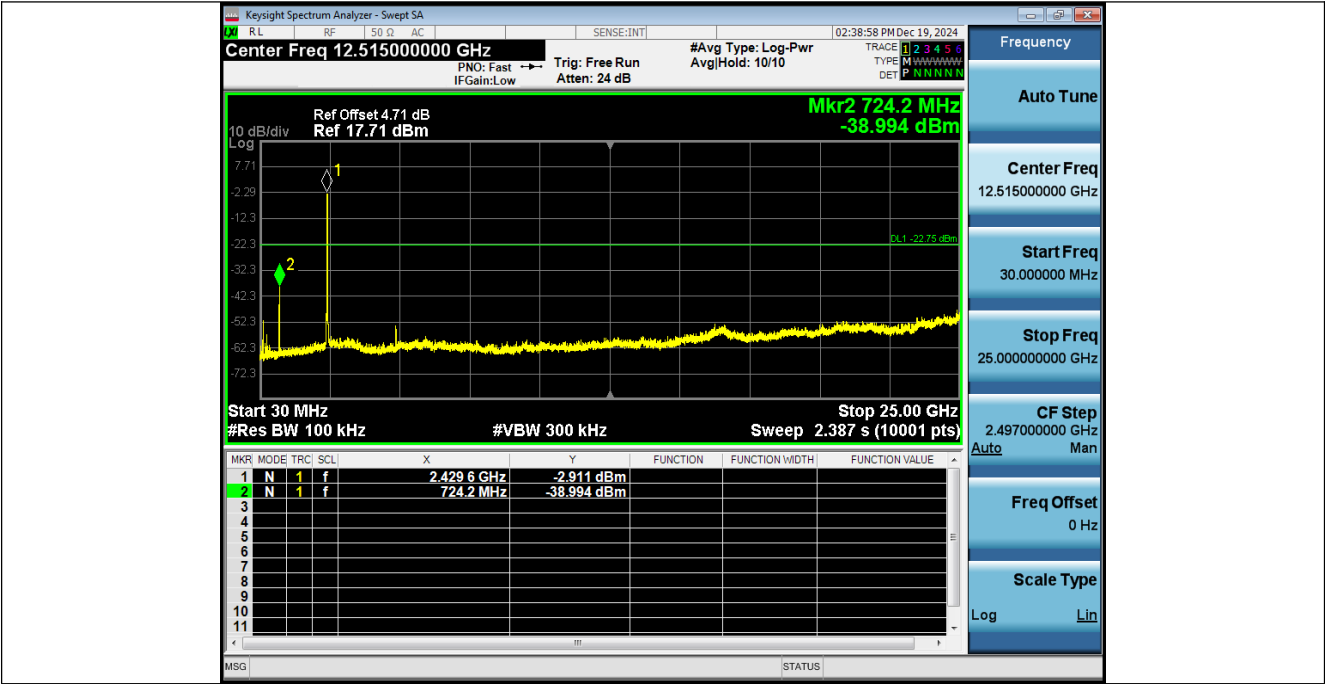
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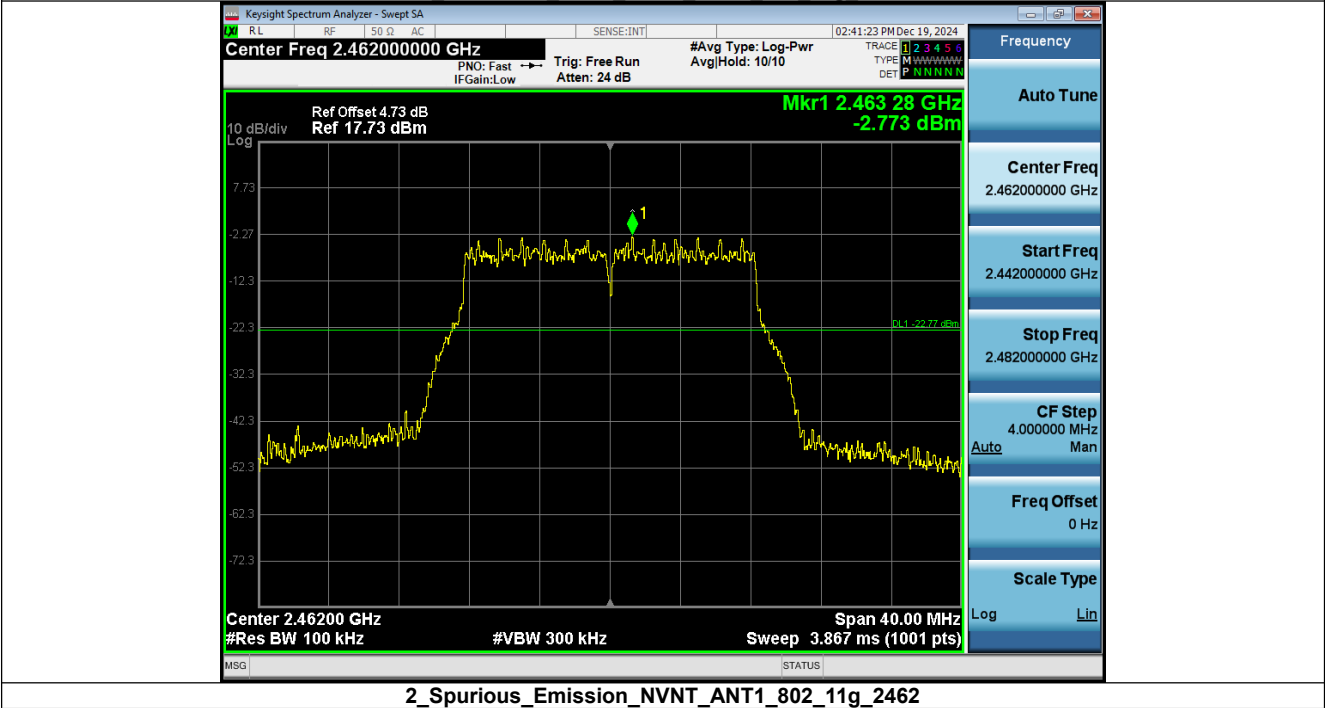
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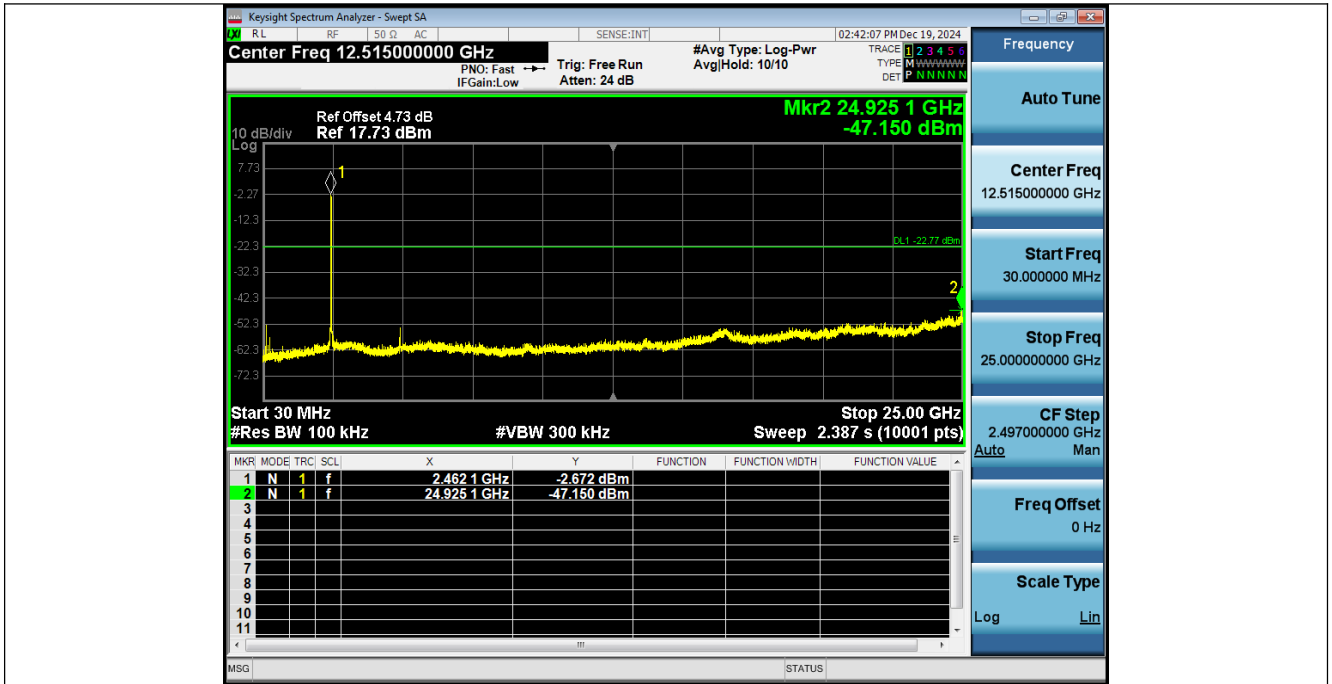
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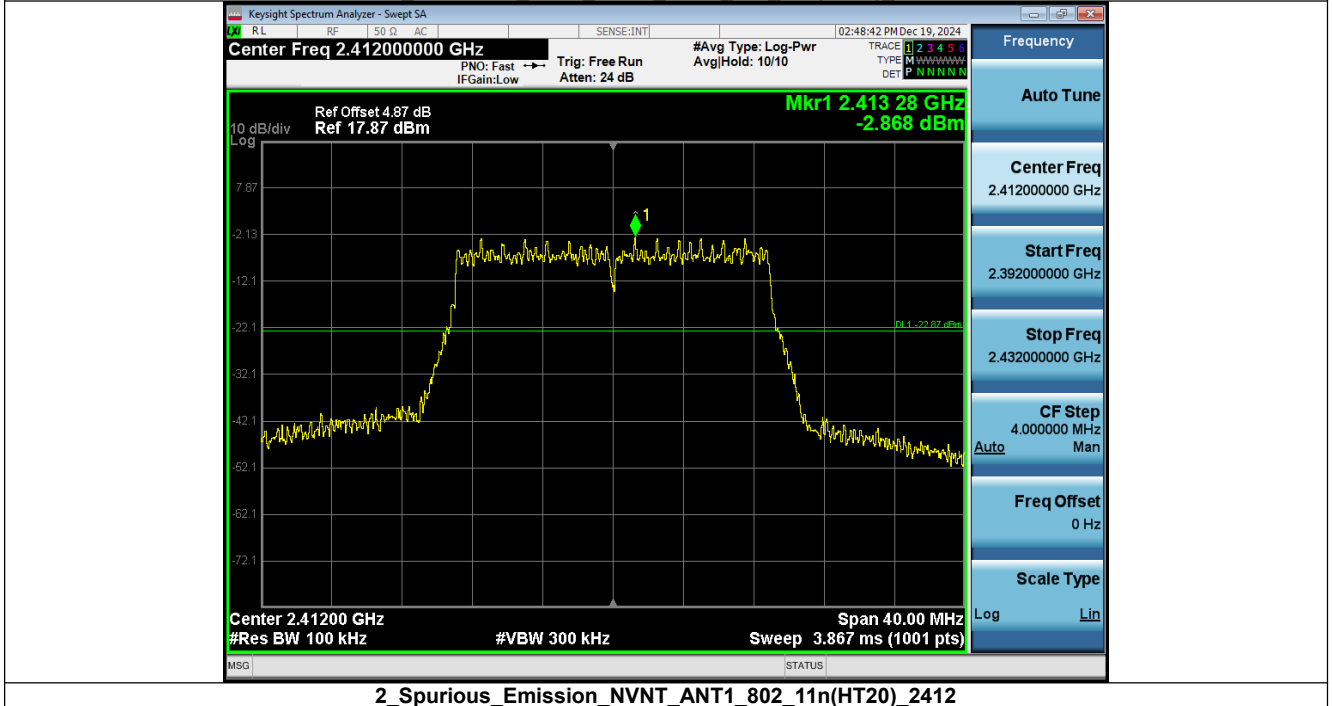
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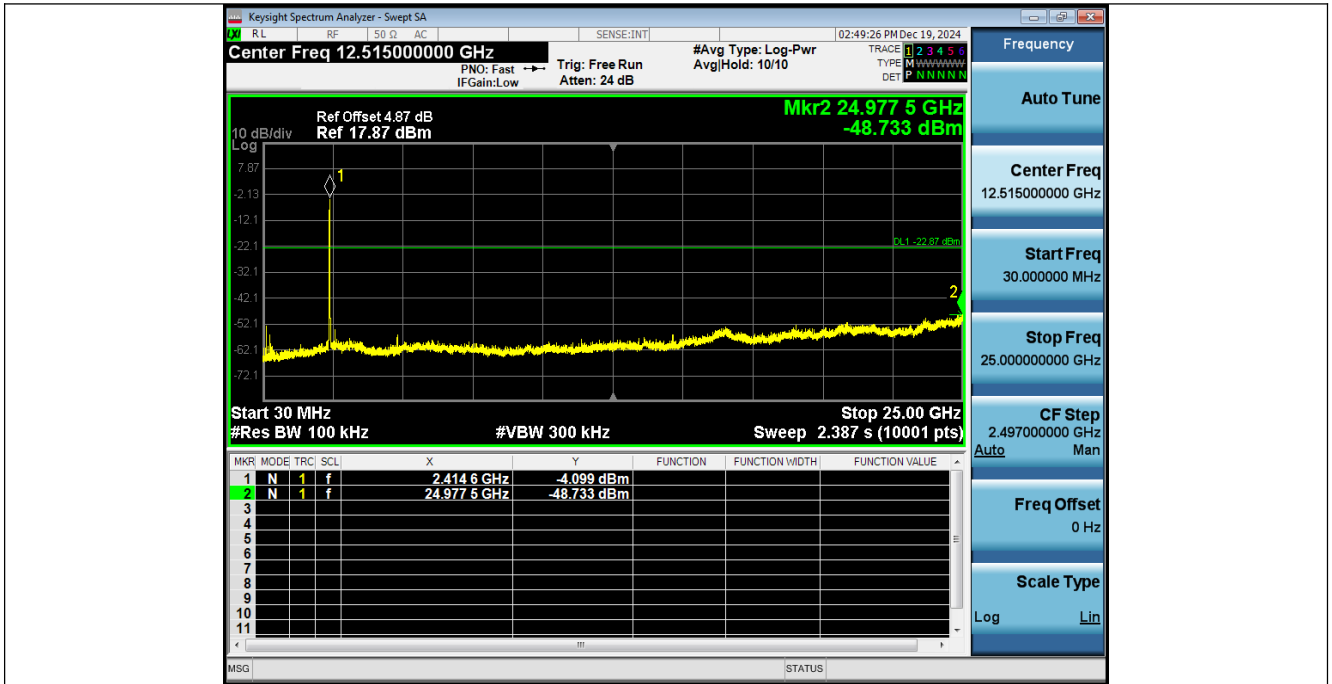
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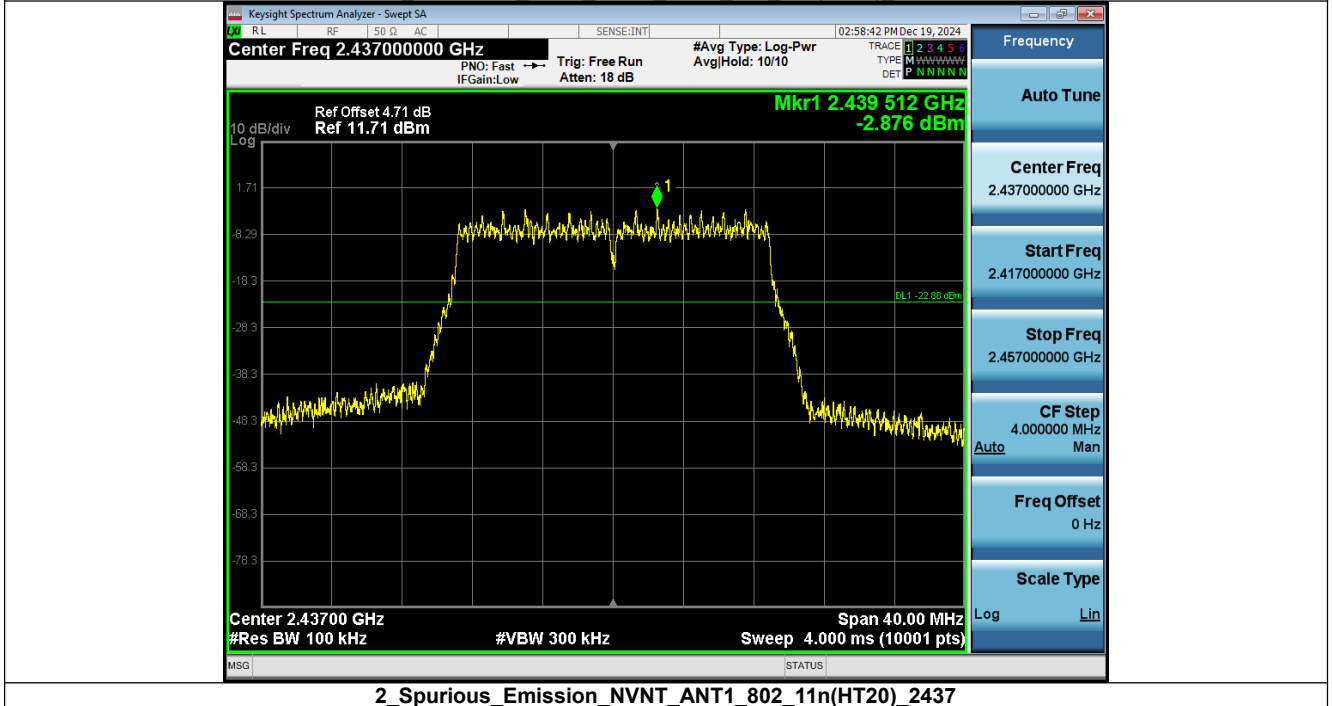
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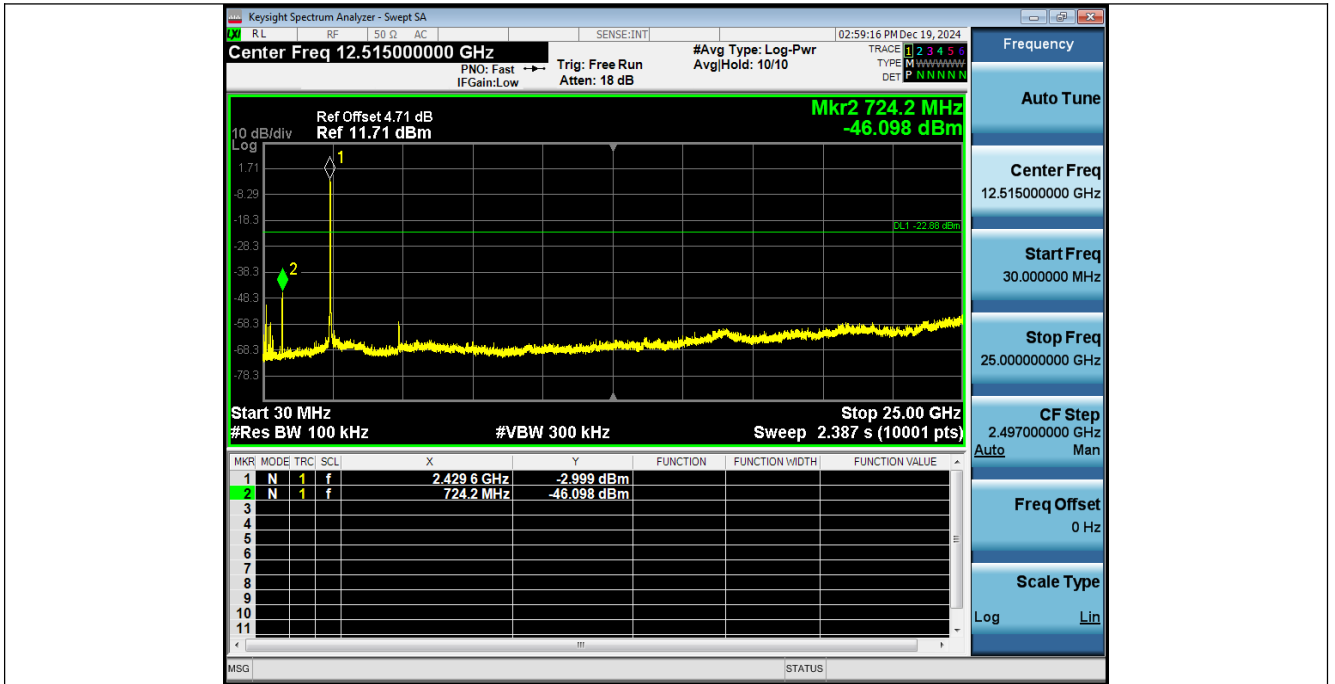


2 Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412

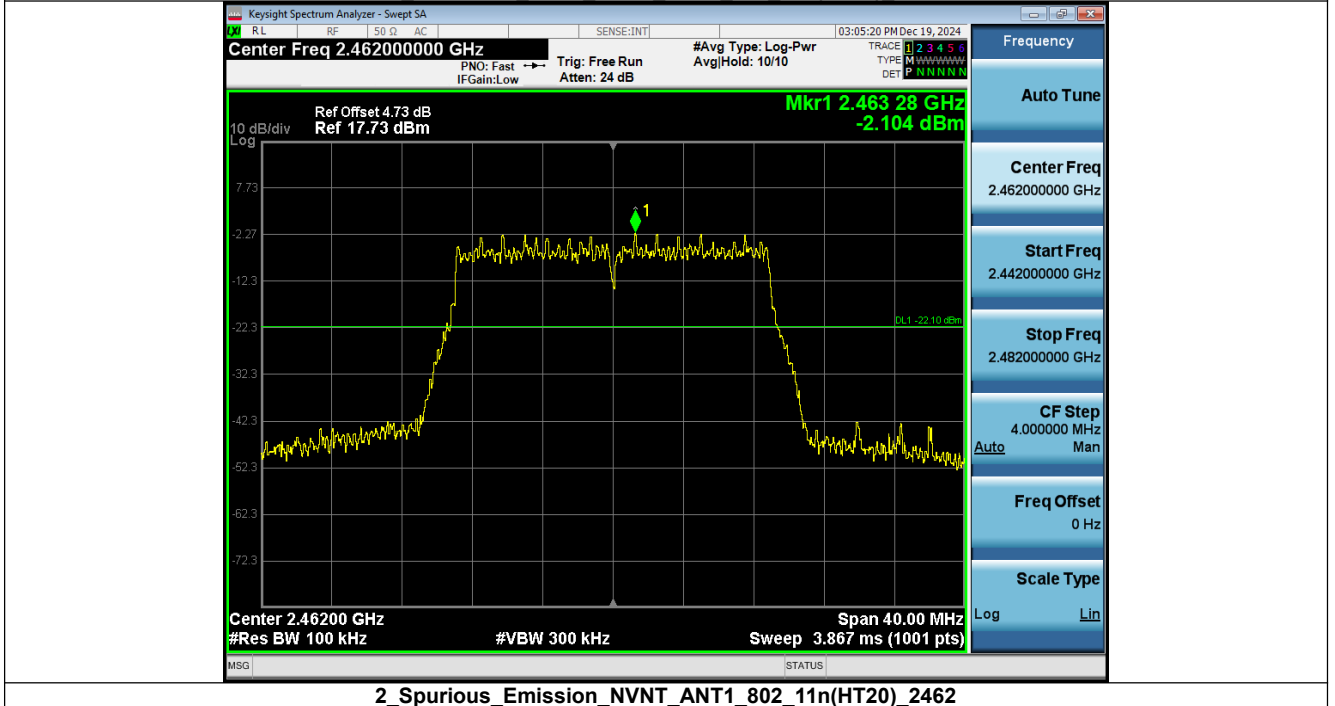


1 Reference Level NVNT_ANT1_802_11n(HT20)_2437

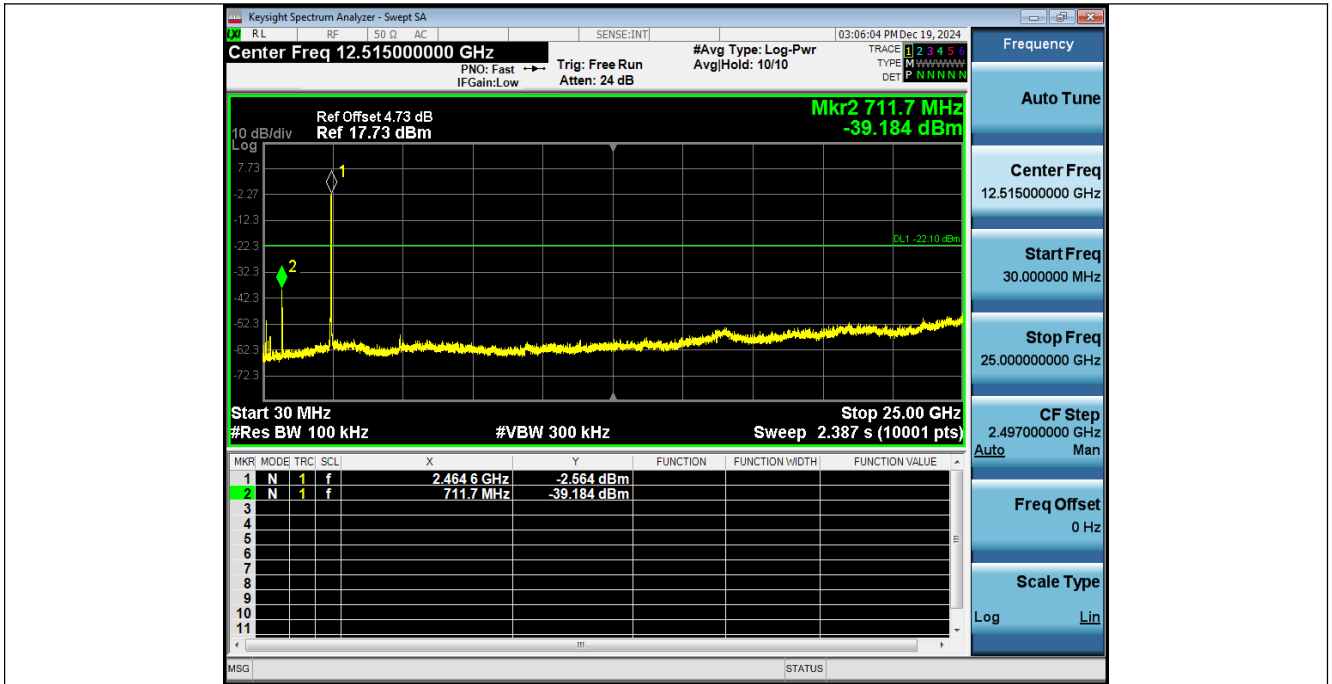




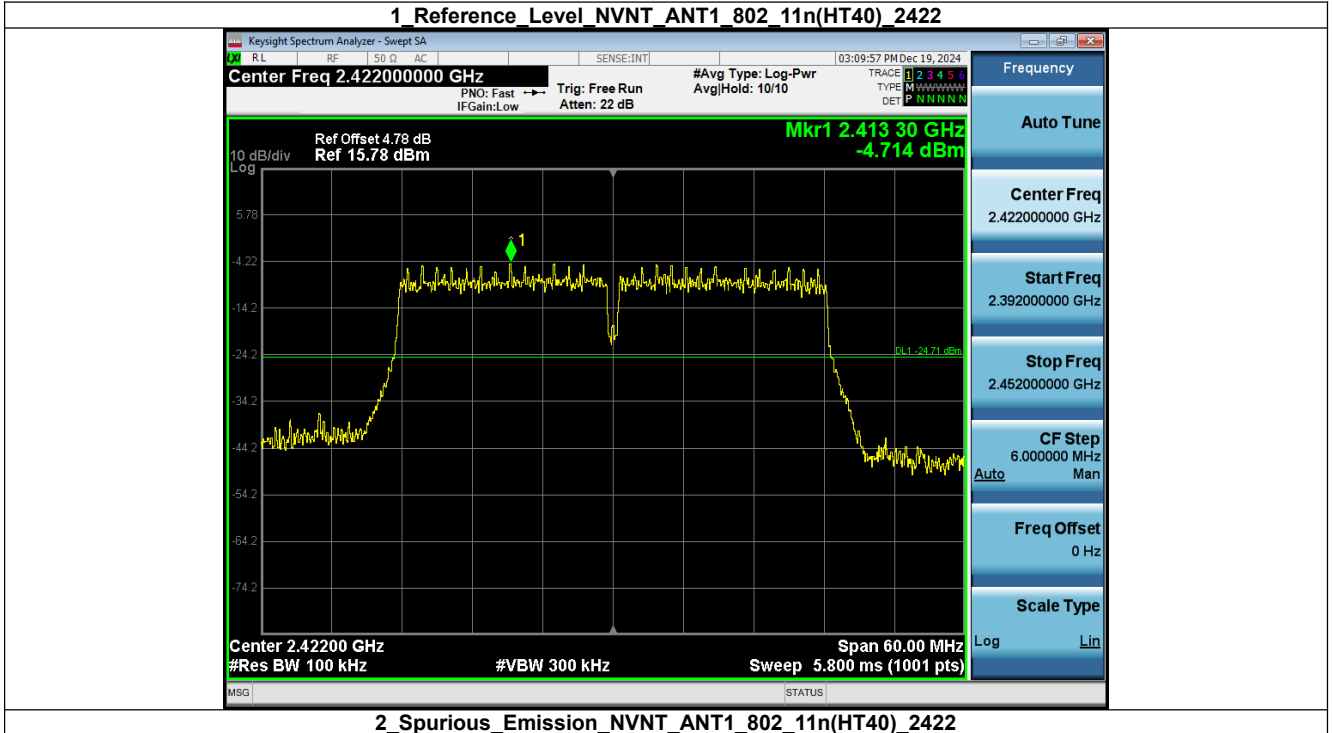
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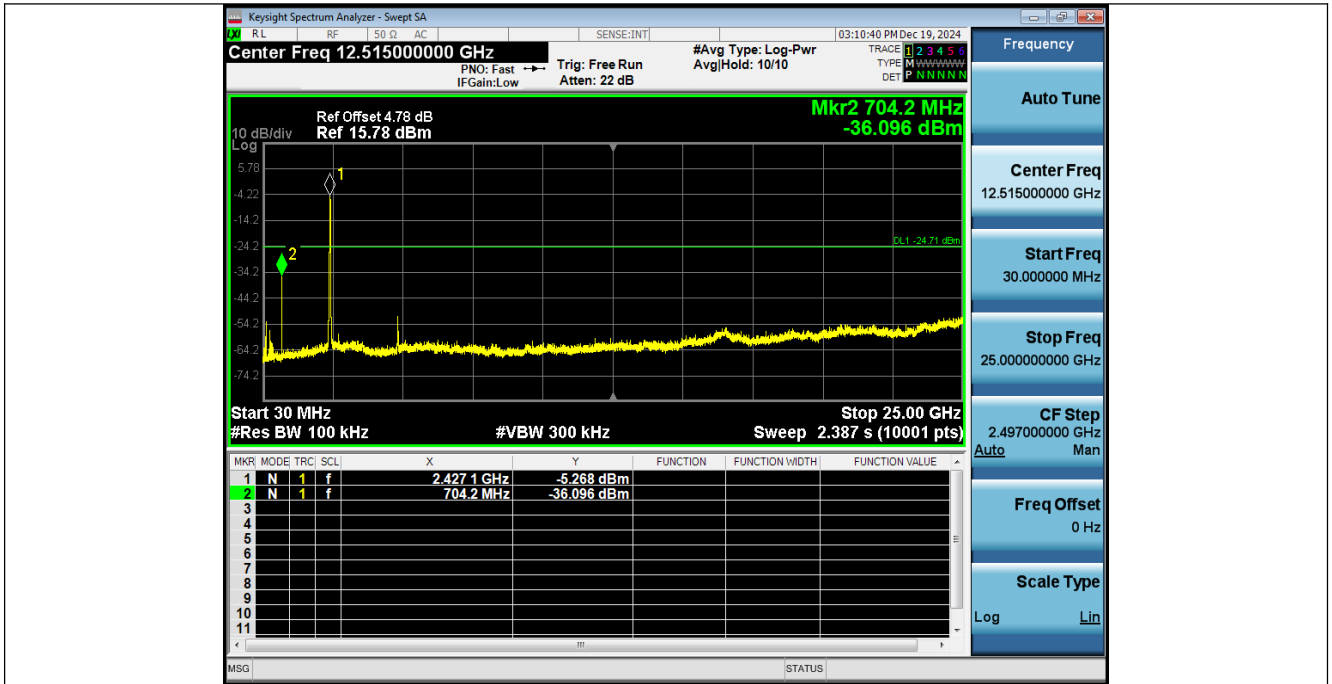
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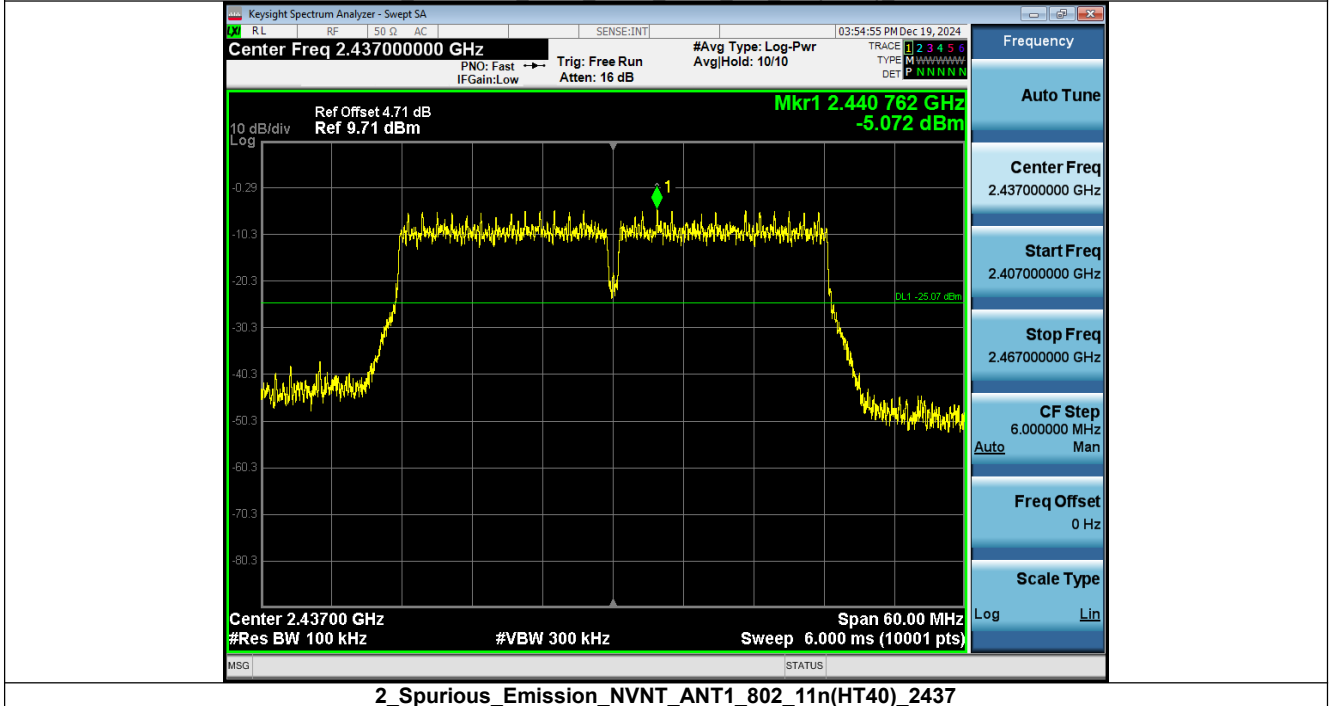
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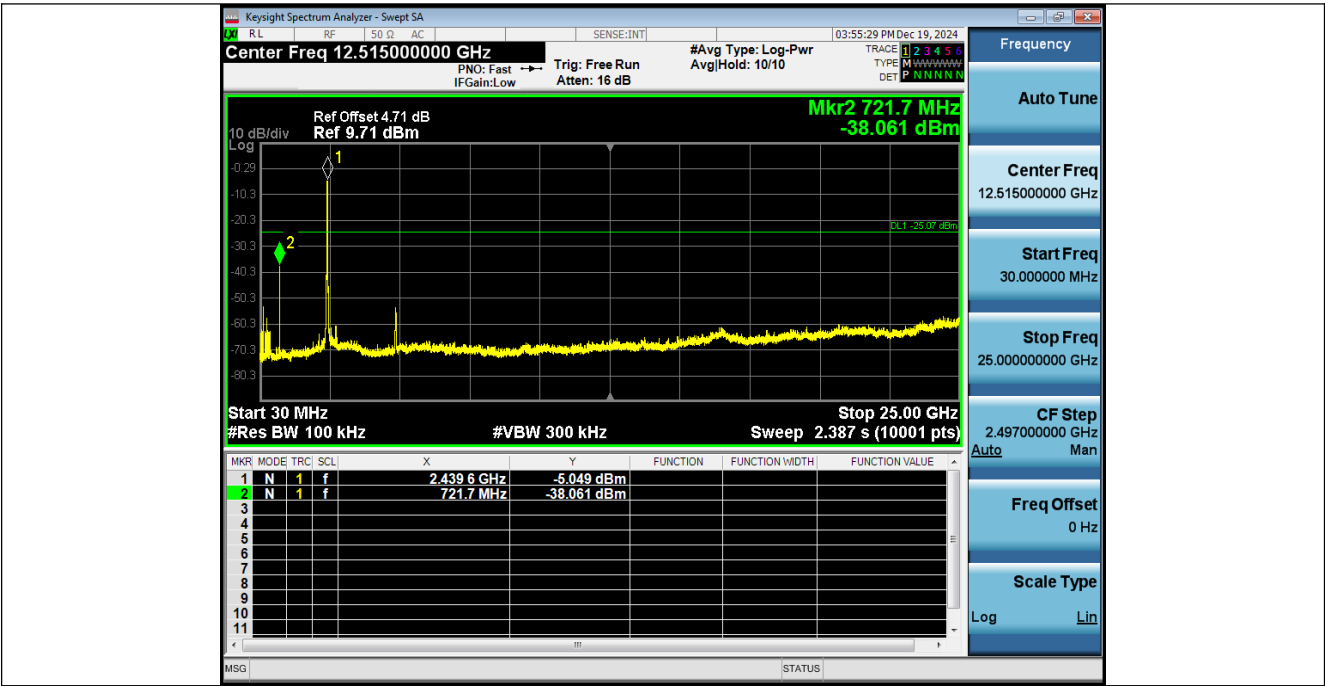
2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



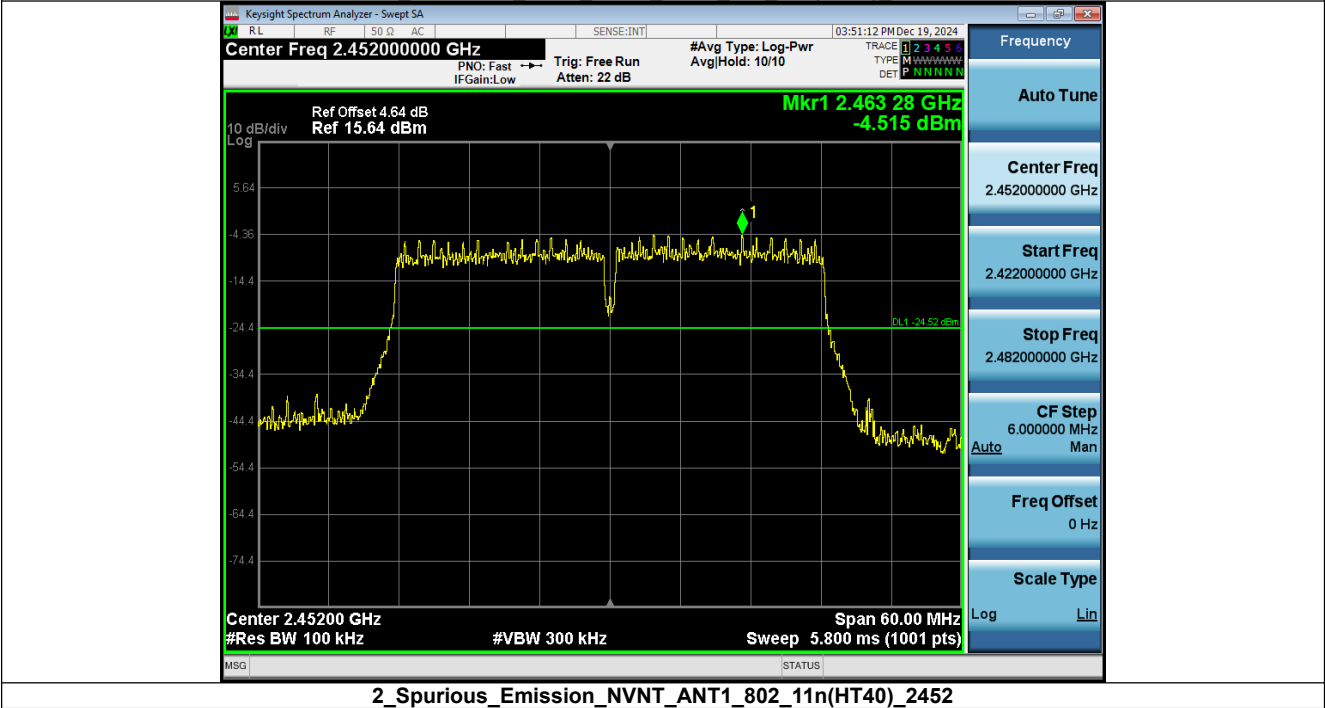
1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



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

