

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 30

6. Bandedge 37

7. Spurious Emission 45

FCC ID:2BEOR-1G-2G-32G

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	10.38	500	Pass
NVNT	ANT1	802.11b	2437.00	11.05	500	Pass
NVNT	ANT1	802.11b	2462.00	10.10	500	Pass
NVNT	ANT1	802.11g	2412.00	16.34	500	Pass
NVNT	ANT1	802.11g	2437.00	16.45	500	Pass
NVNT	ANT1	802.11g	2462.00	16.19	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.24	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.26	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.69	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.80	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.20	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.58	500	Pass

-6dB Bandwidth_NVNT_ANT1_802_11b_2412



-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



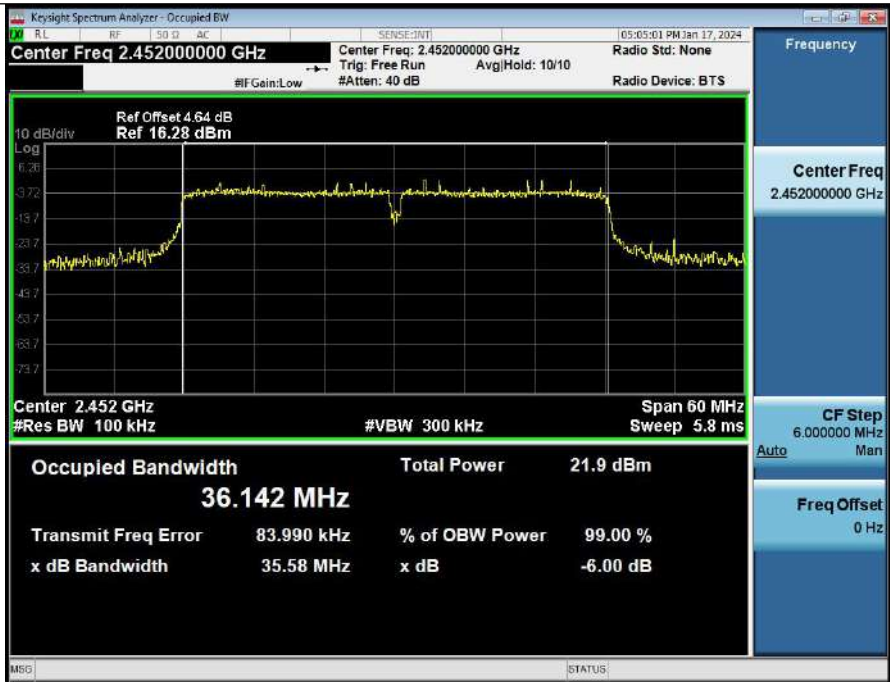
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-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	15.006
NVNT	ANT1	802.11b	2437.00	14.939
NVNT	ANT1	802.11b	2462.00	14.974
NVNT	ANT1	802.11g	2412.00	16.743
NVNT	ANT1	802.11g	2437.00	16.878
NVNT	ANT1	802.11g	2462.00	16.913
NVNT	ANT1	802.11n(HT20)	2412.00	17.933
NVNT	ANT1	802.11n(HT20)	2437.00	17.993
NVNT	ANT1	802.11n(HT20)	2462.00	17.940
NVNT	ANT1	802.11n(HT40)	2422.00	36.484
NVNT	ANT1	802.11n(HT40)	2437.00	36.675
NVNT	ANT1	802.11n(HT40)	2452.00	36.640



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



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

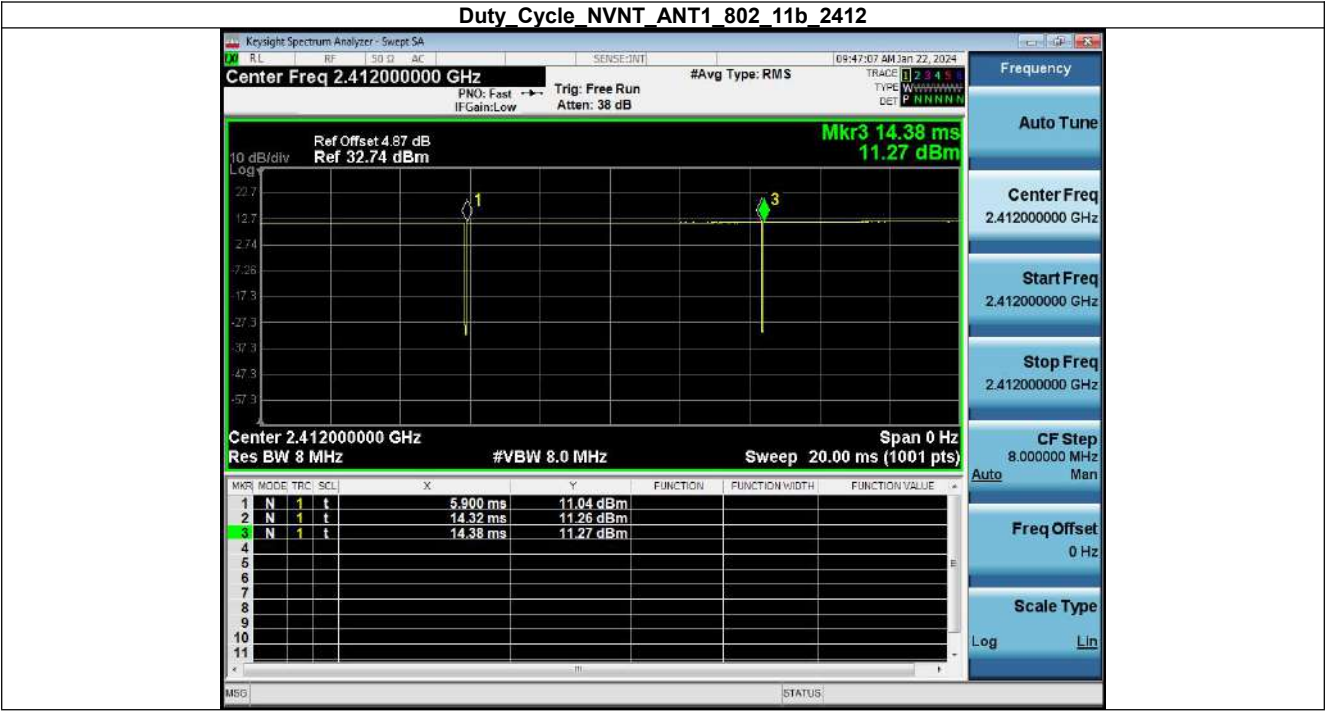


99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.02
NVNT	ANT1	802.11b	2437.00	99.53	0.02
NVNT	ANT1	802.11b	2462.00	99.53	0.02
NVNT	ANT1	802.11g	2412.00	98.61	0.06
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	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2437.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	98.39	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	96.87	0.14
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



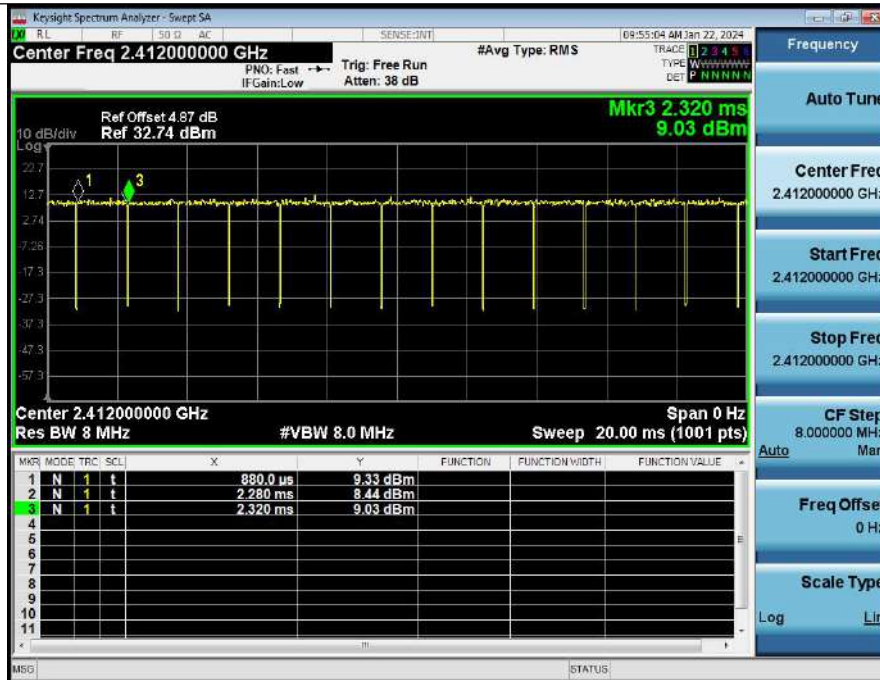
Duty Cycle NVNT ANT1 802 11b 2437



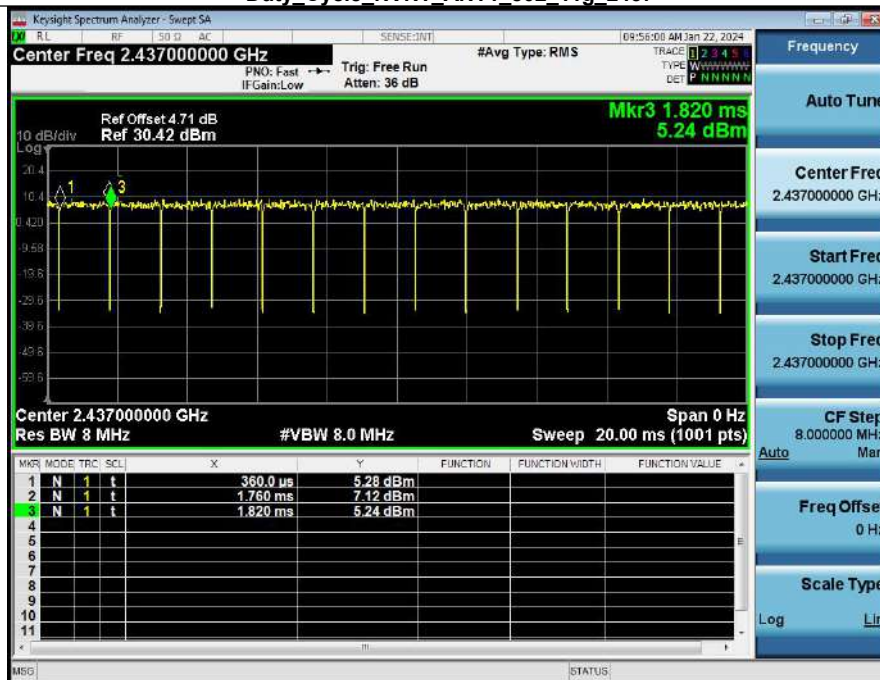
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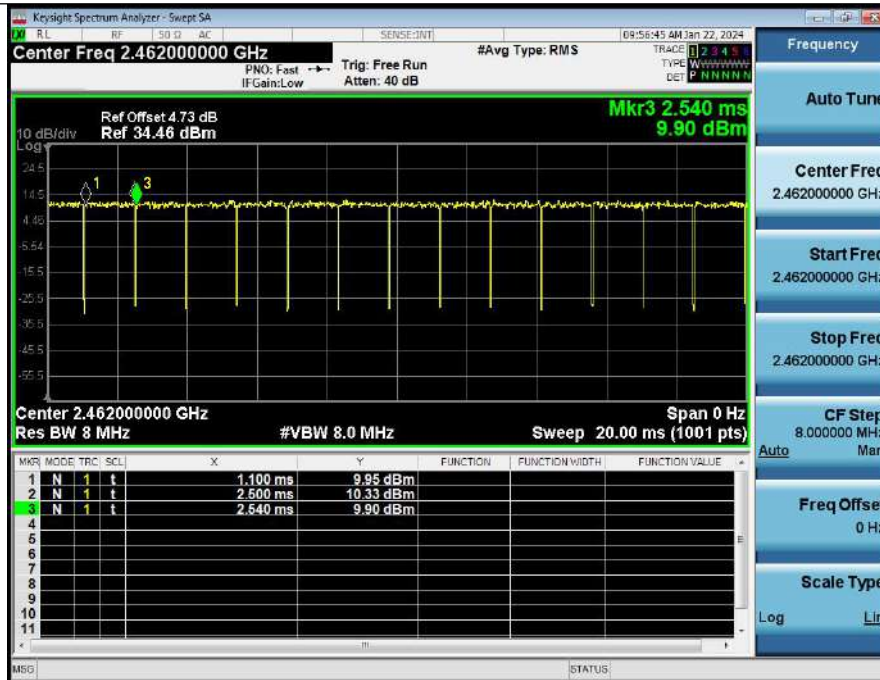
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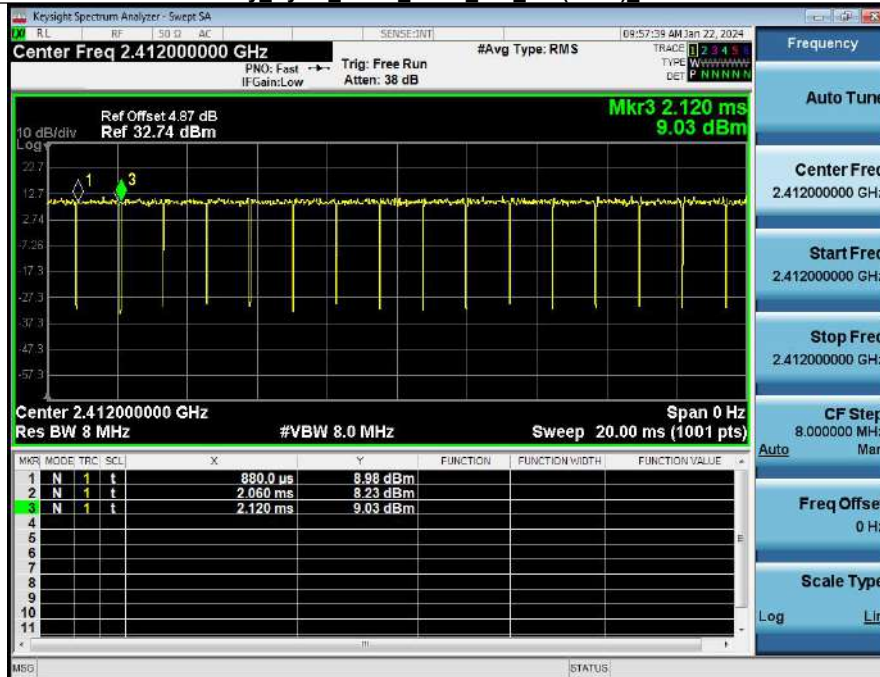
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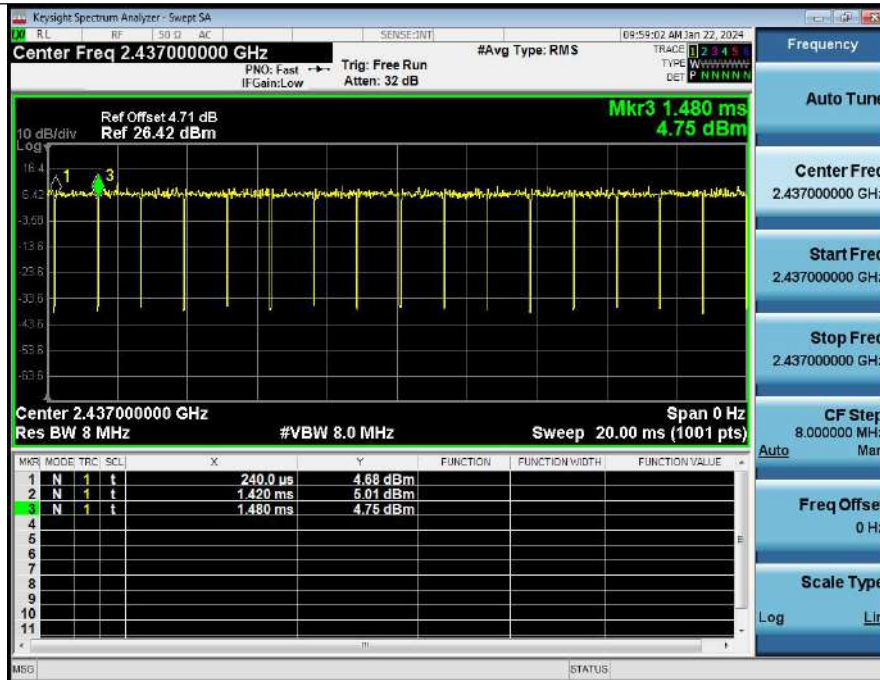
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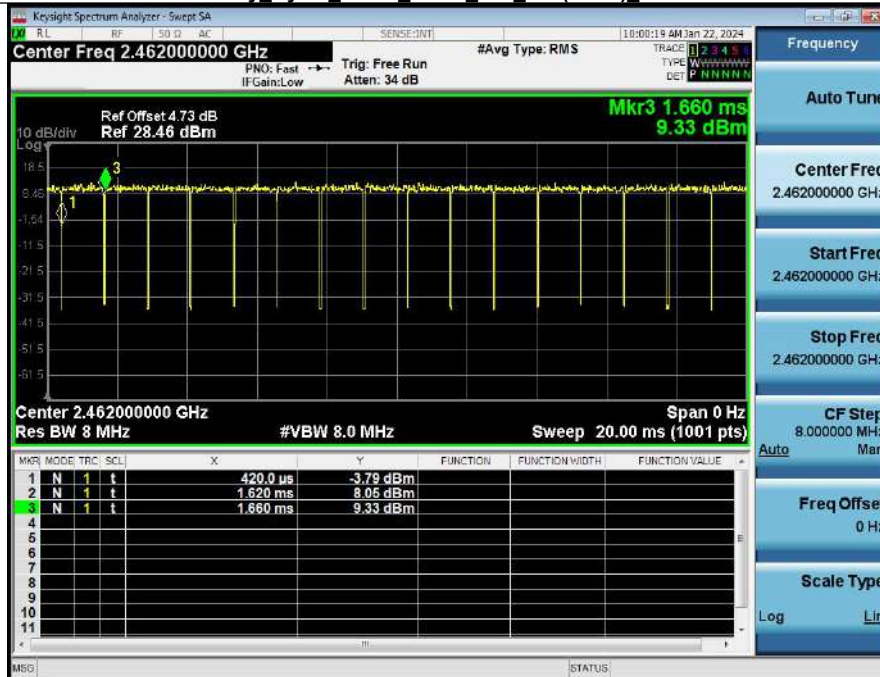
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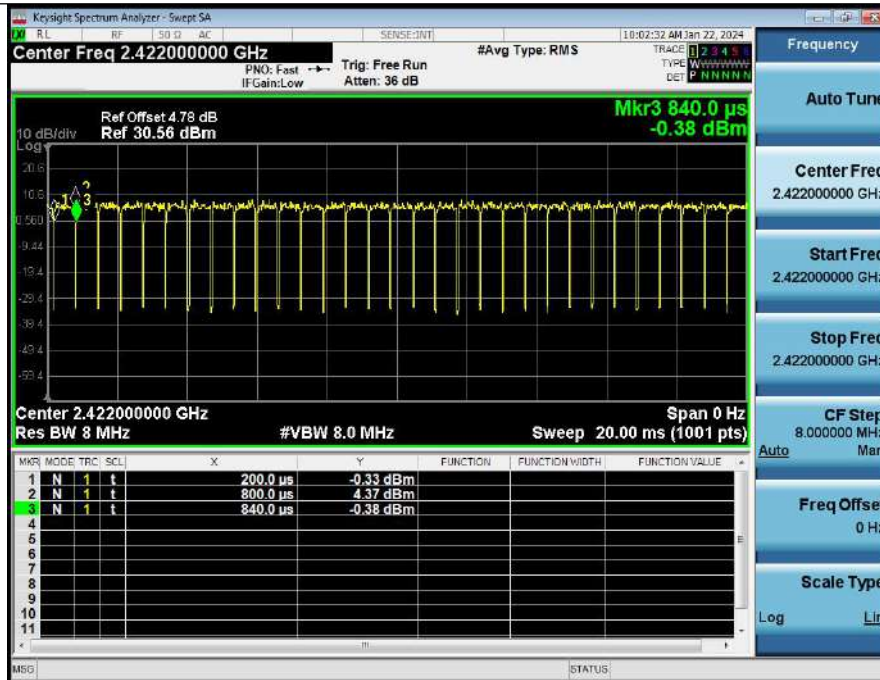
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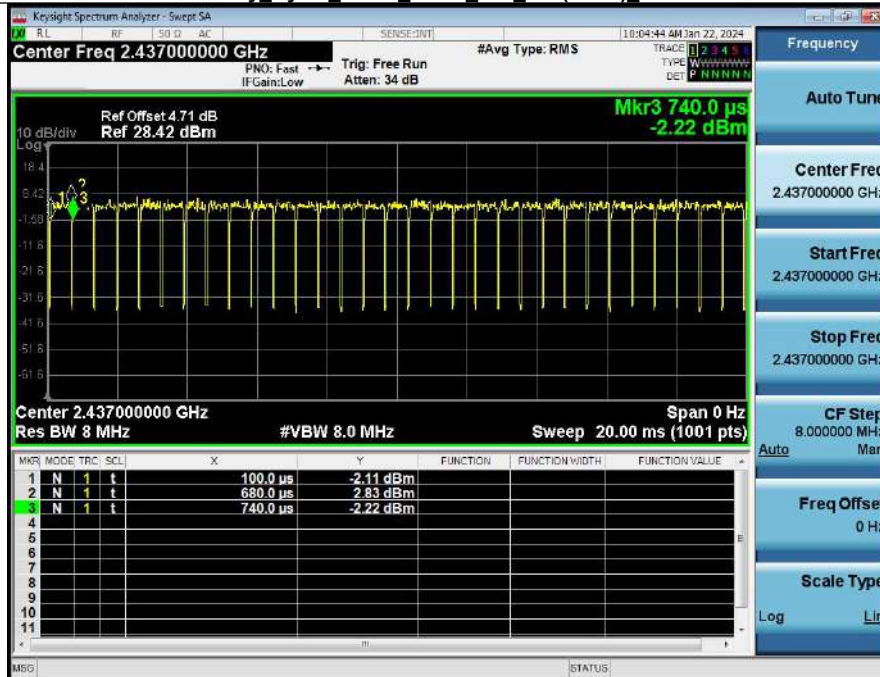
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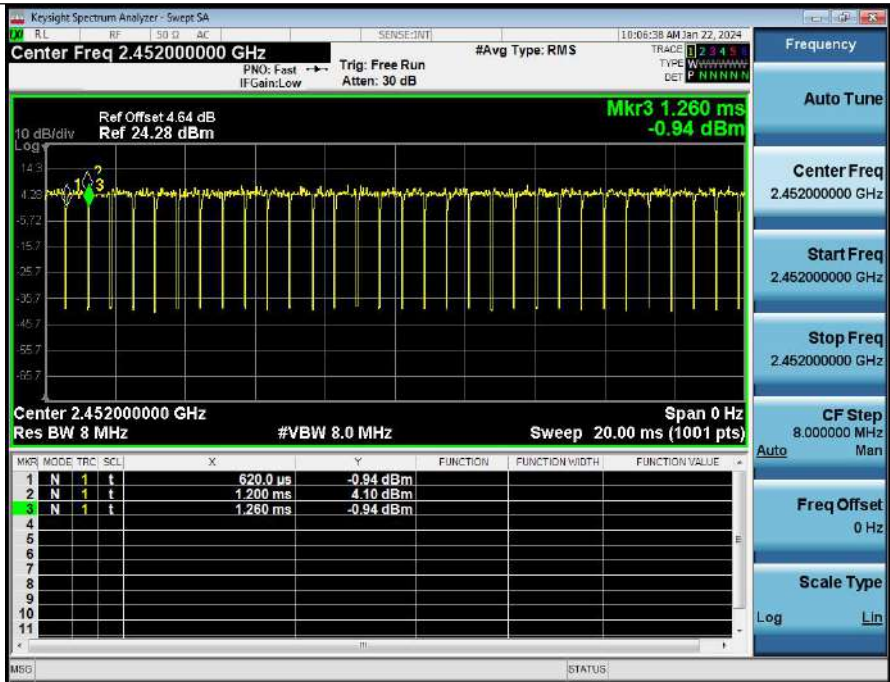
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Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437

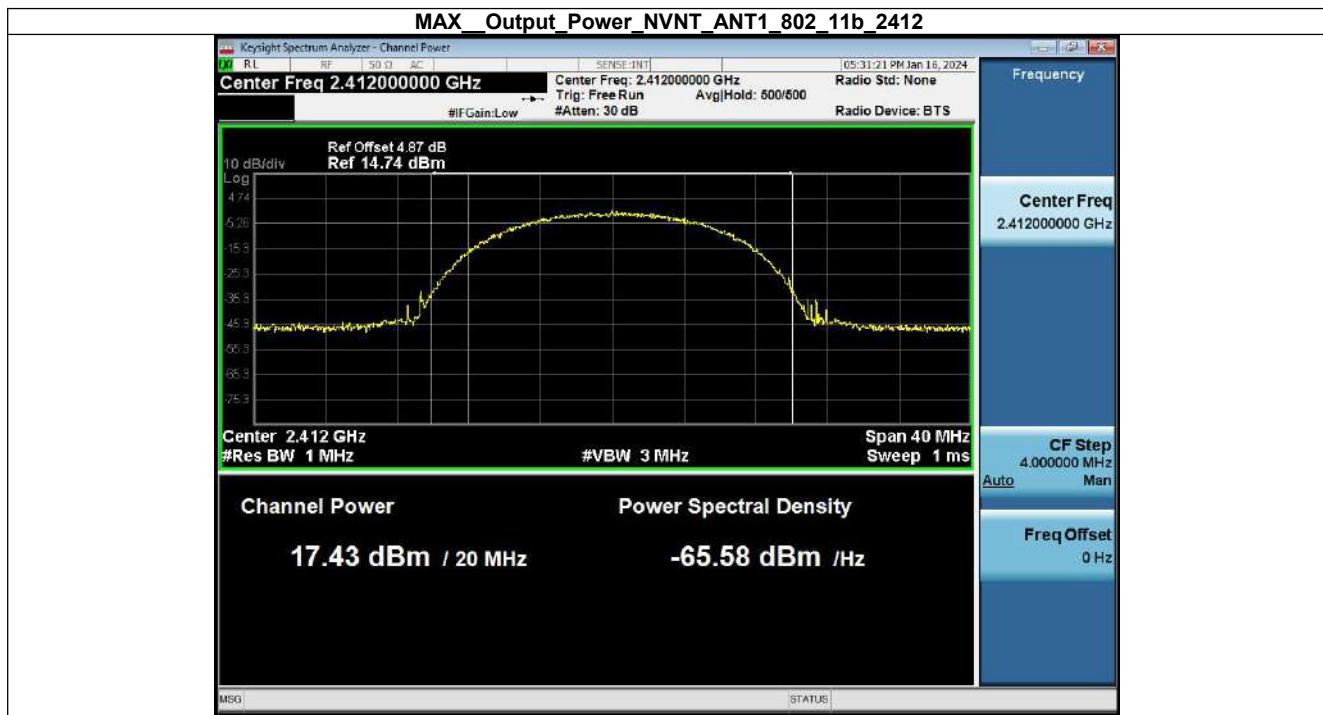


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452

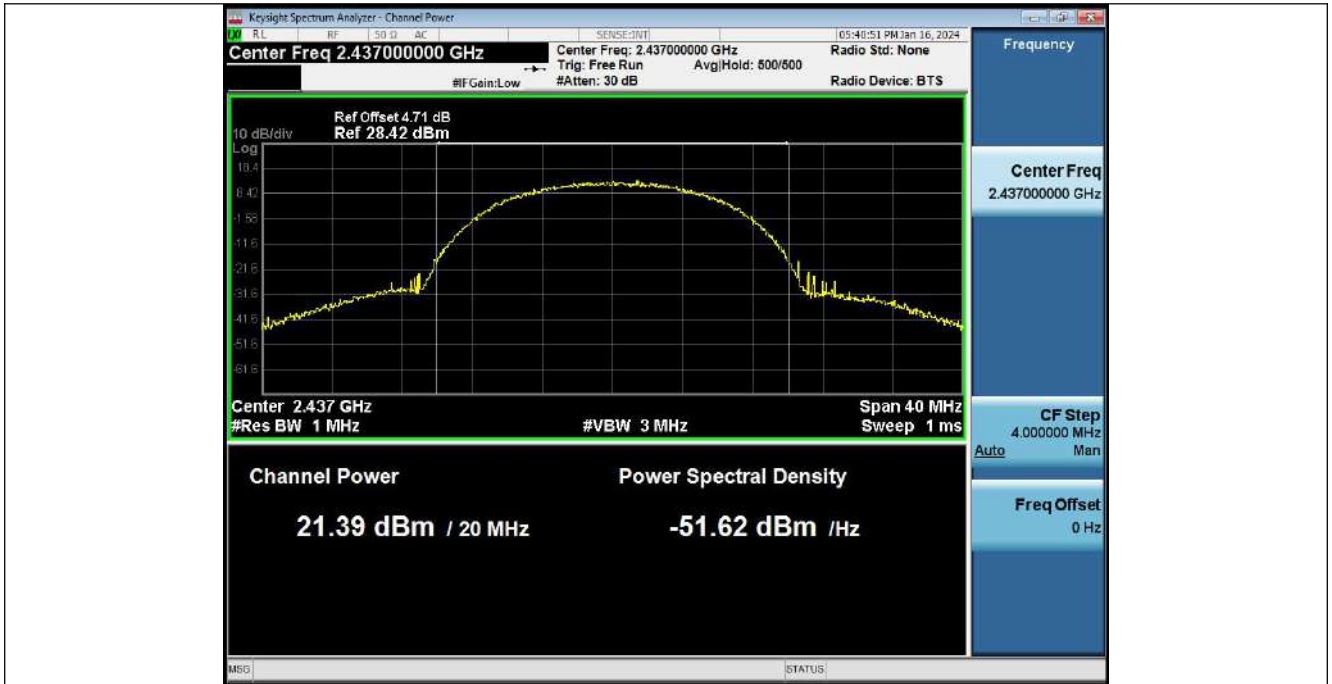


4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	17.43	17.43	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	21.39	21.39	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	20.98	20.98	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	12.12	12.12	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	15.87	15.87	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	18.60	18.60	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	15.29	15.29	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	17.12	17.12	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	17.07	17.07	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	16.04	16.04	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	22.74	22.74	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	22.36	22.36	30	Pass



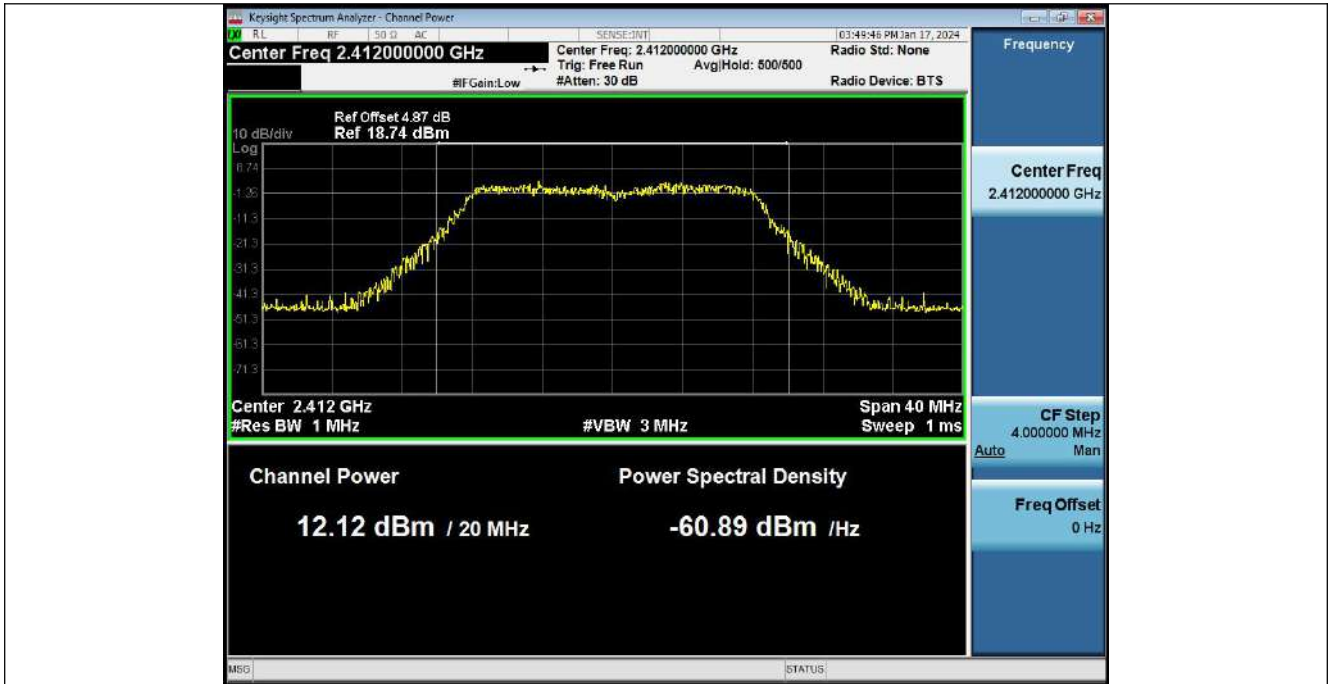
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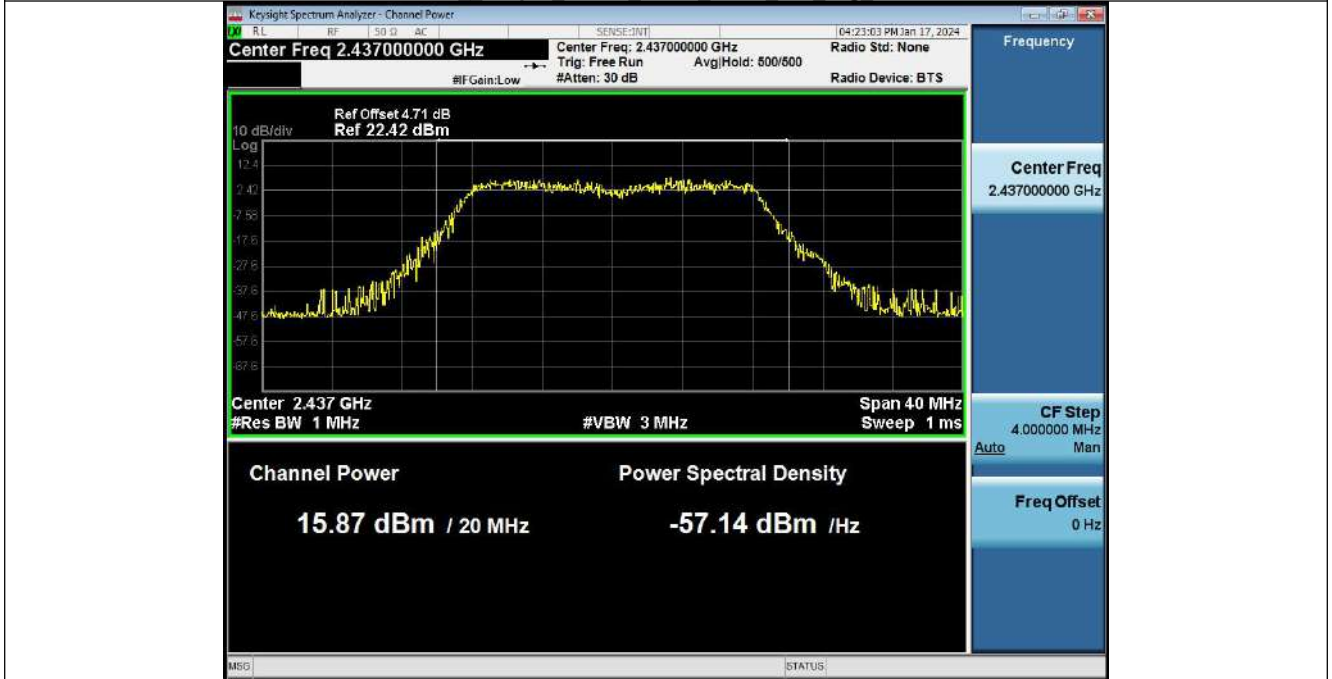
MAX Output Power NVNT ANT1 802_11b_2462



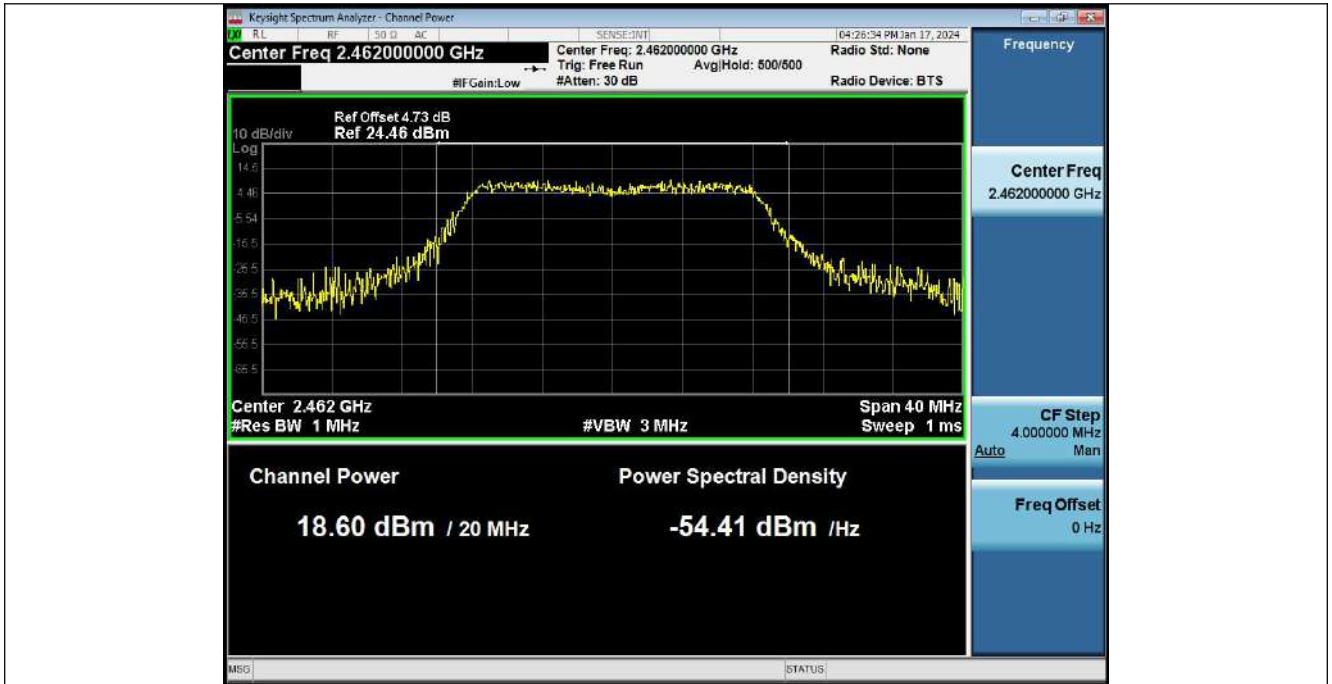
MAX Output Power NVNT ANT1 802_11g_2412



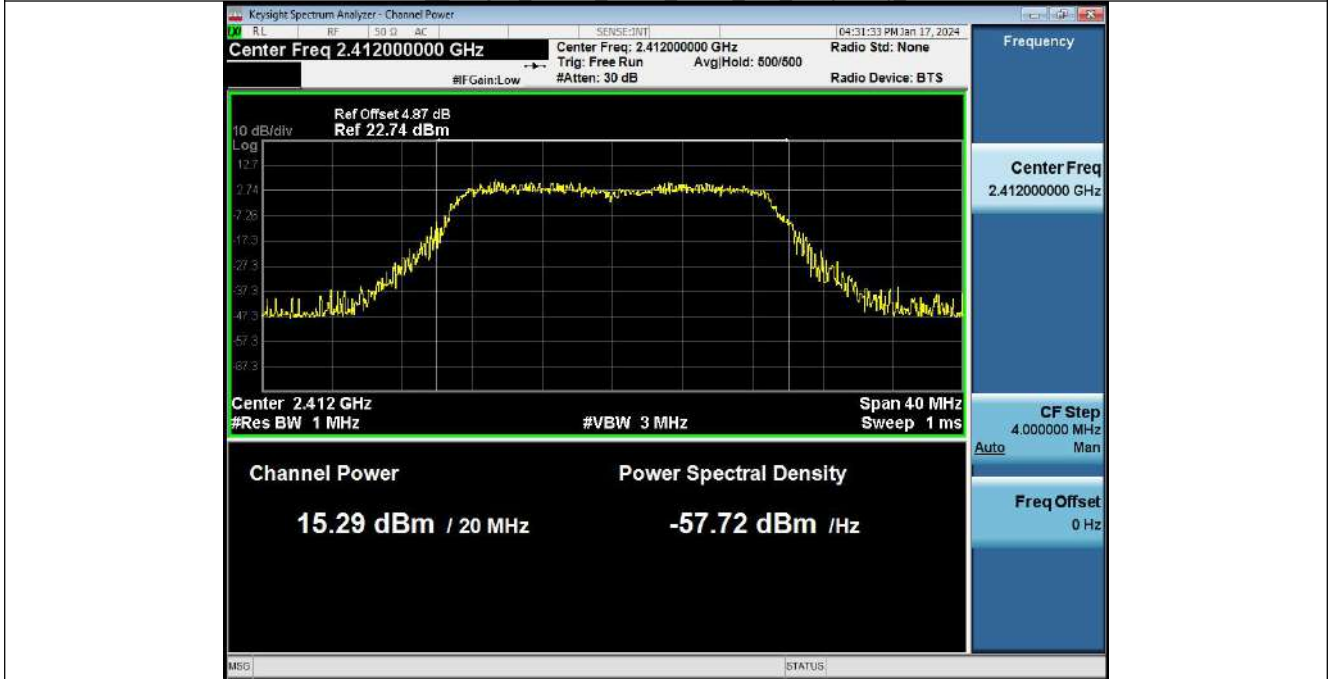
MAX Output Power NVNT ANT1 802_11g_2437



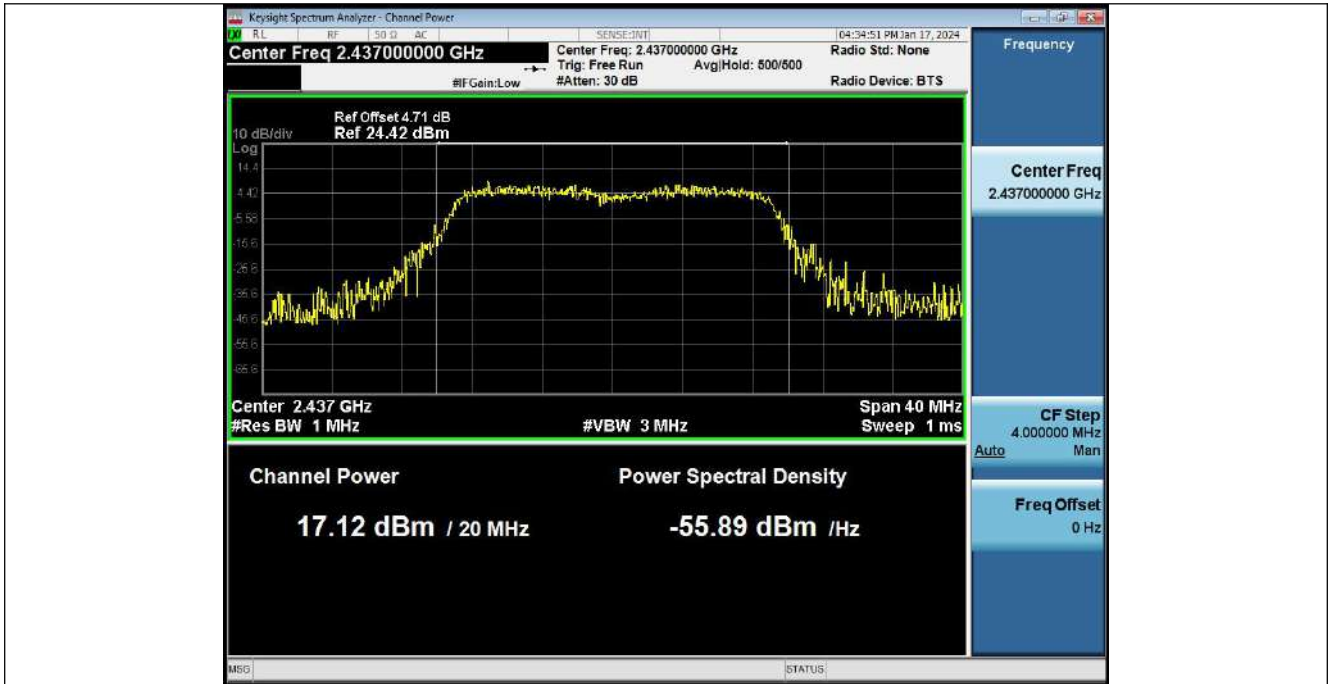
MAX Output Power NVNT ANT1 802_11g_2462



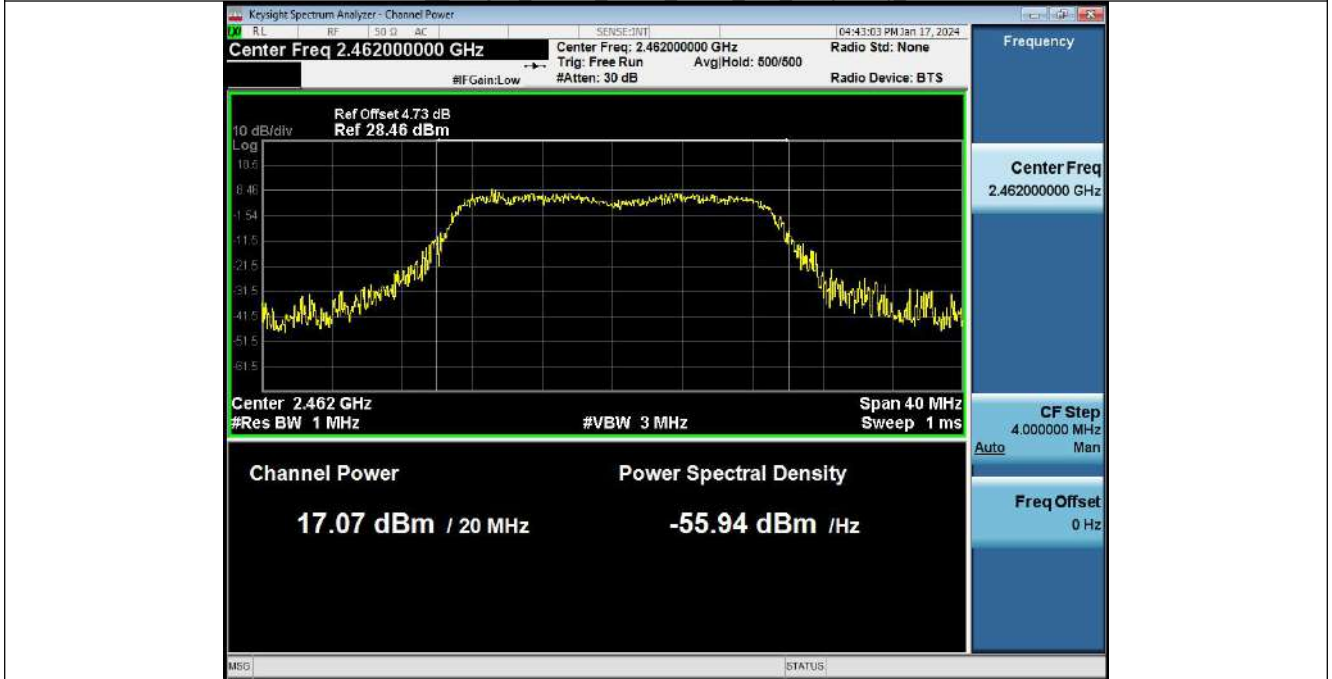
MAX Output Power_NVNT_ANT1_802_11n(HT20)_2412



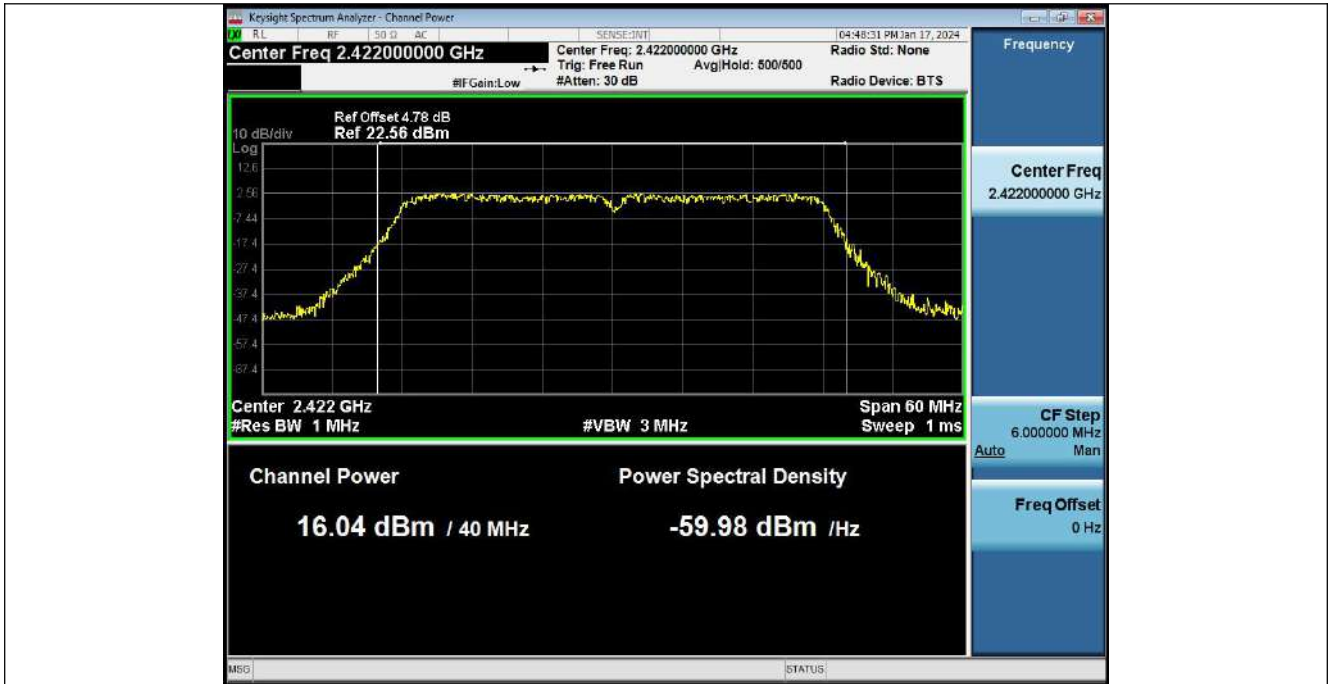
MAX Output Power_NVNT_ANT1_802_11n(HT20)_2437



MAX Output Power_NVNT_ANT1_802_11n(HT20)_2462



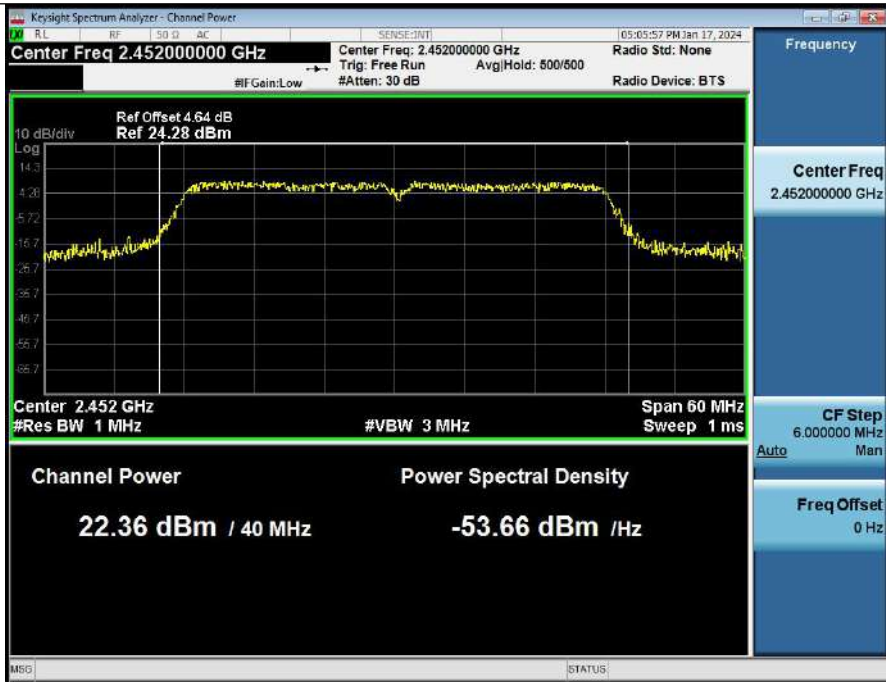
MAX Output Power_NVNT_ANT1_802_11n(HT40)_2422



MAX Output Power_NVNT_ANT1_802_11n(HT40)_2437

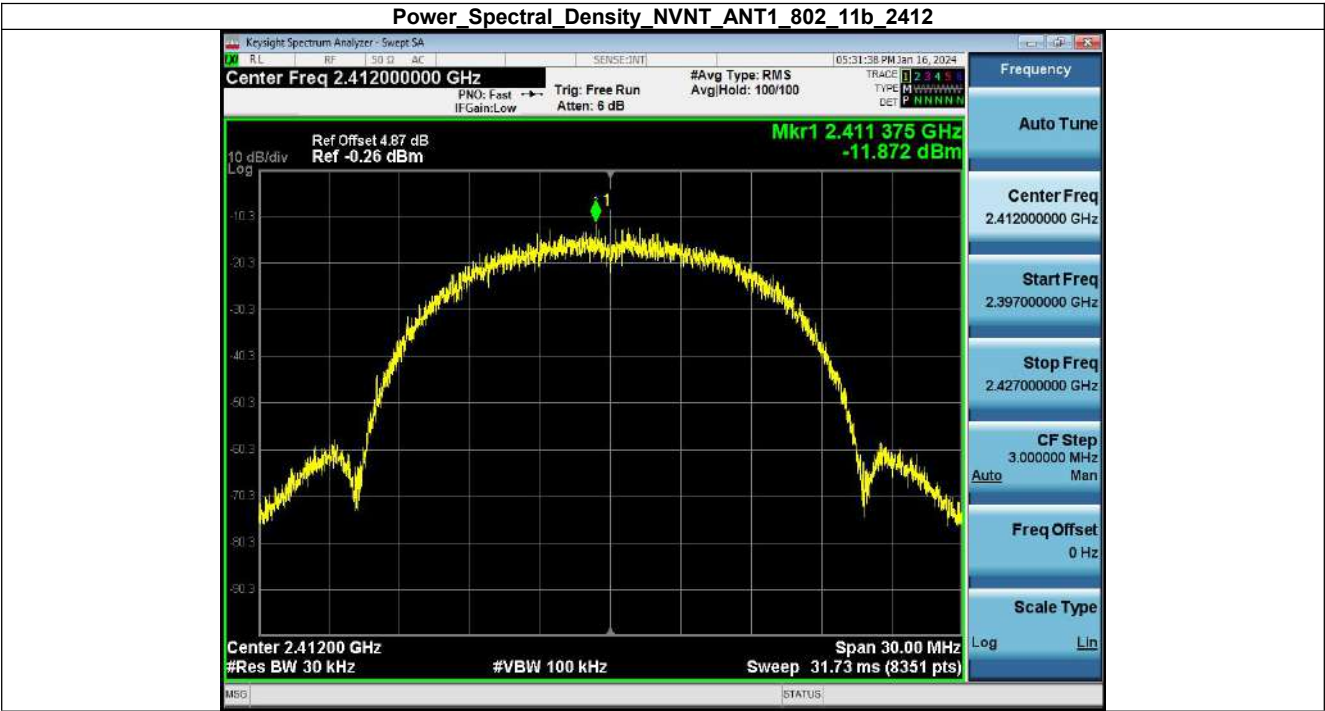


MAX Output Power_NVNT_ANT1_802_11n(HT40)_2452

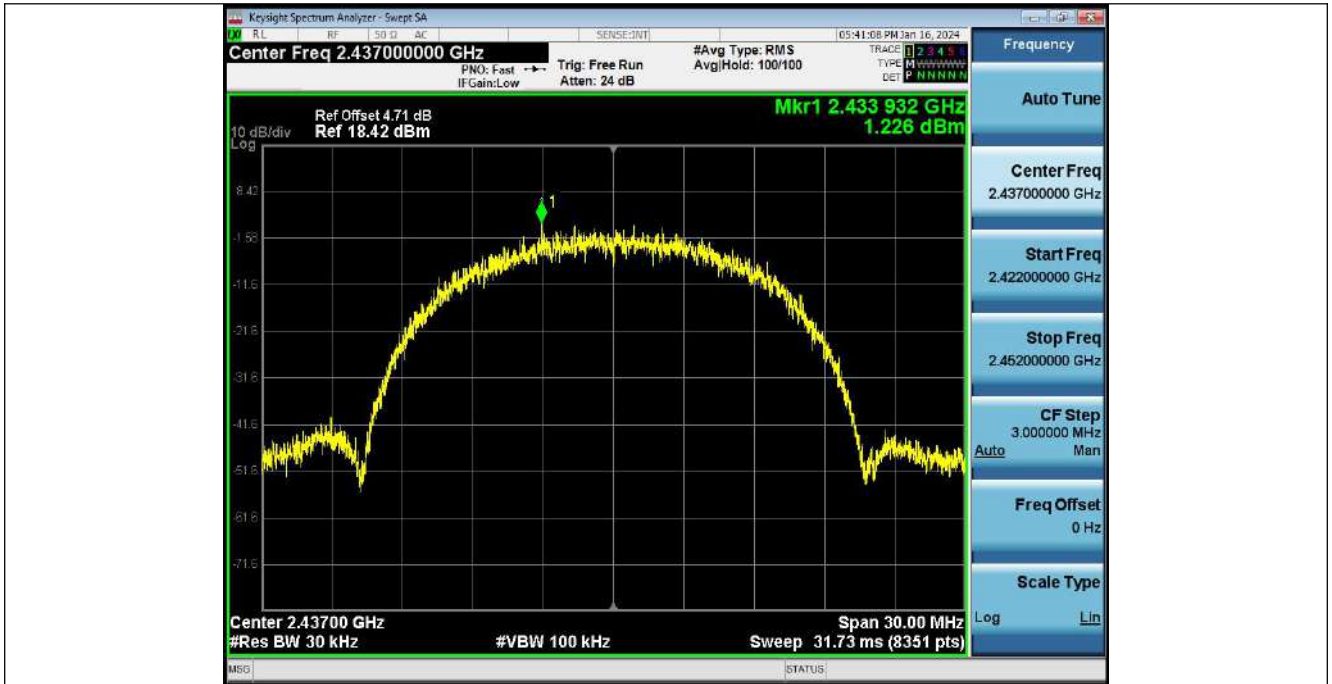


5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-11.87	-10.00	-21.87	8	Pass
NVNT	ANT1	802.11b	2437.00	1.23	-10.00	-8.77	8	Pass
NVNT	ANT1	802.11b	2462.00	0.51	-10.00	-9.49	8	Pass
NVNT	ANT1	802.11g	2412.00	-9.36	-10.00	-19.36	8	Pass
NVNT	ANT1	802.11g	2437.00	-13.17	-10.00	-23.17	8	Pass
NVNT	ANT1	802.11g	2462.00	-8.62	-10.00	-18.62	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-9.28	-10.00	-19.27	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-13.18	-10.00	-23.18	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-8.65	-10.00	-18.65	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-10.19	-10.00	-20.19	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-3.57	-10.00	-13.57	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-3.51	-10.00	-13.51	8	Pass



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



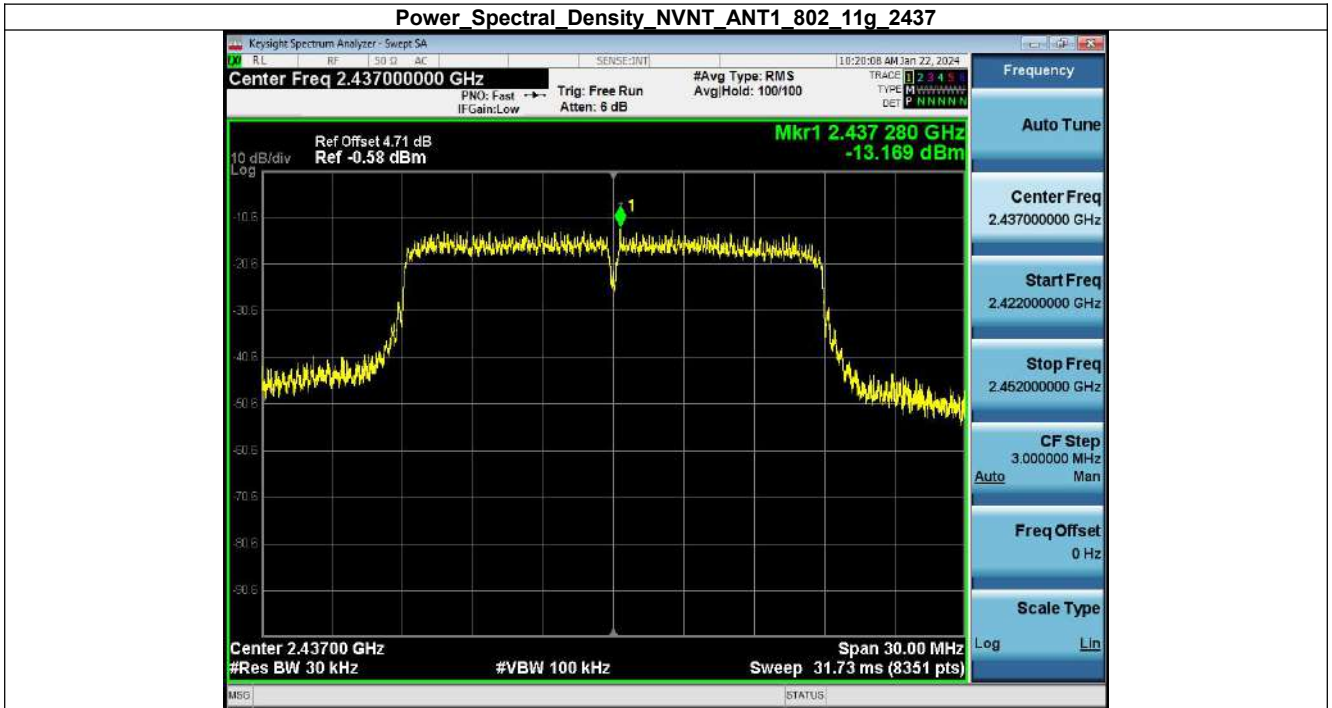
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



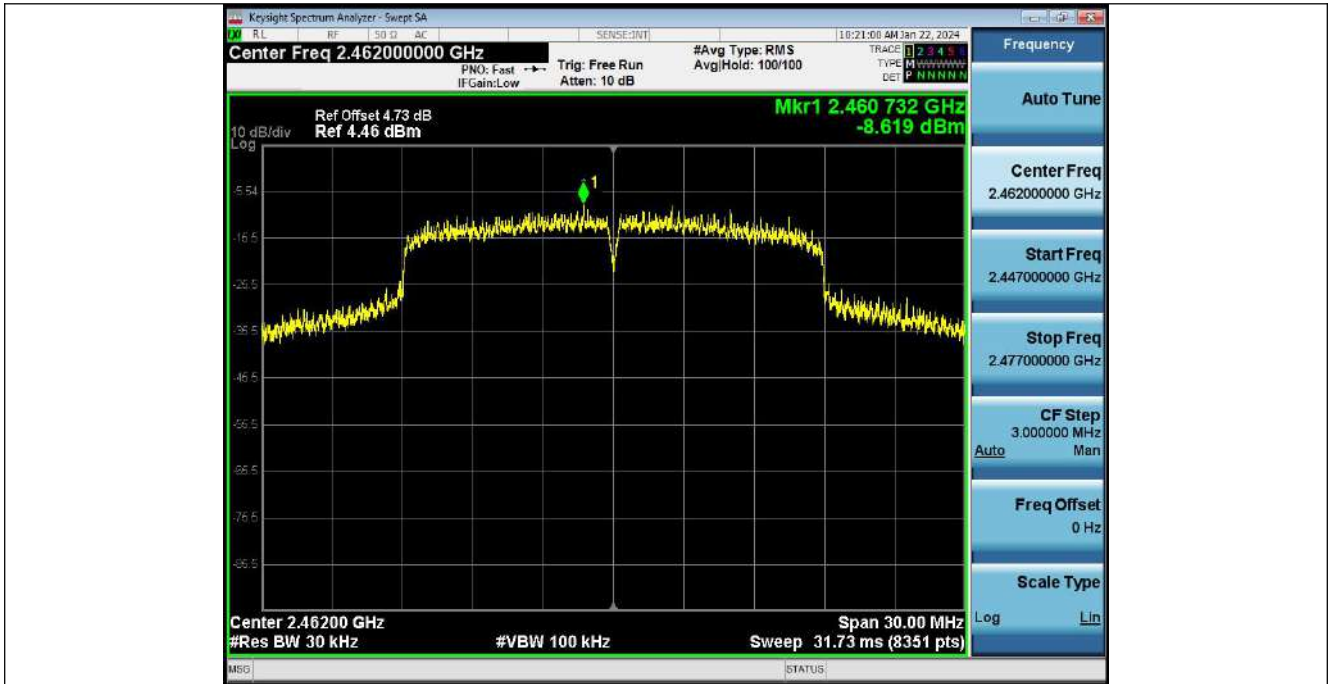
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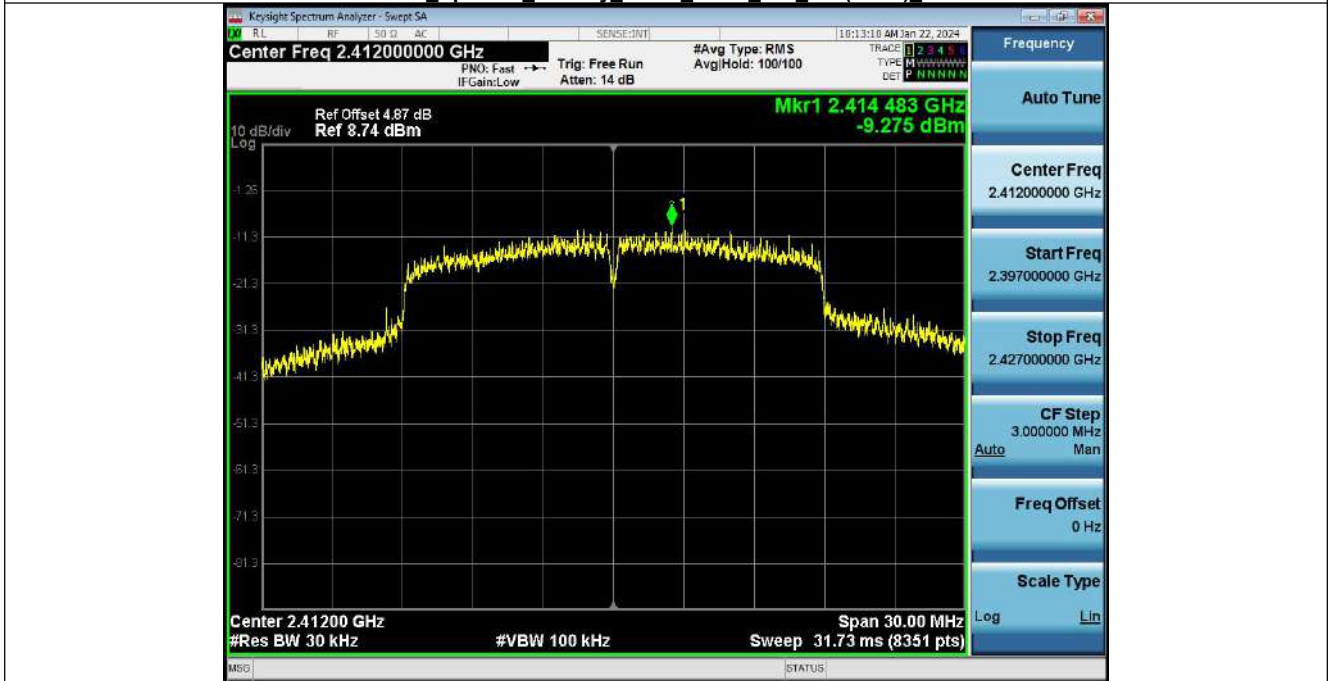
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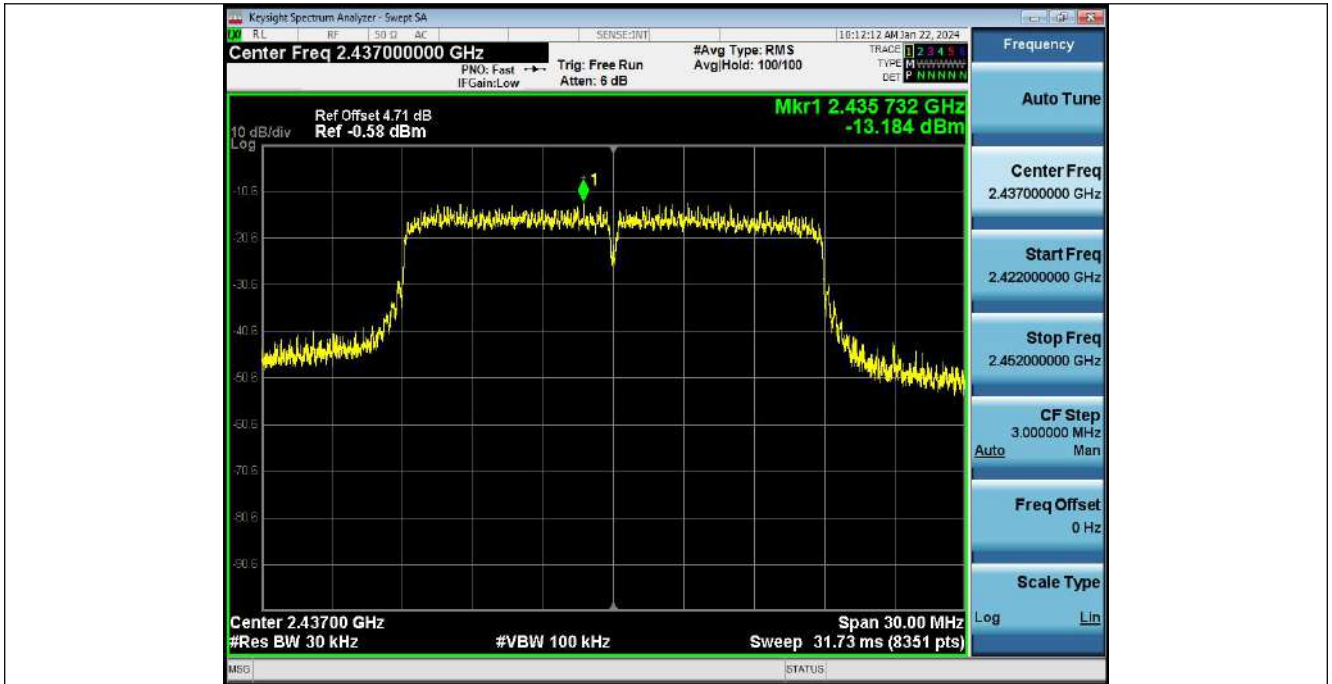
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



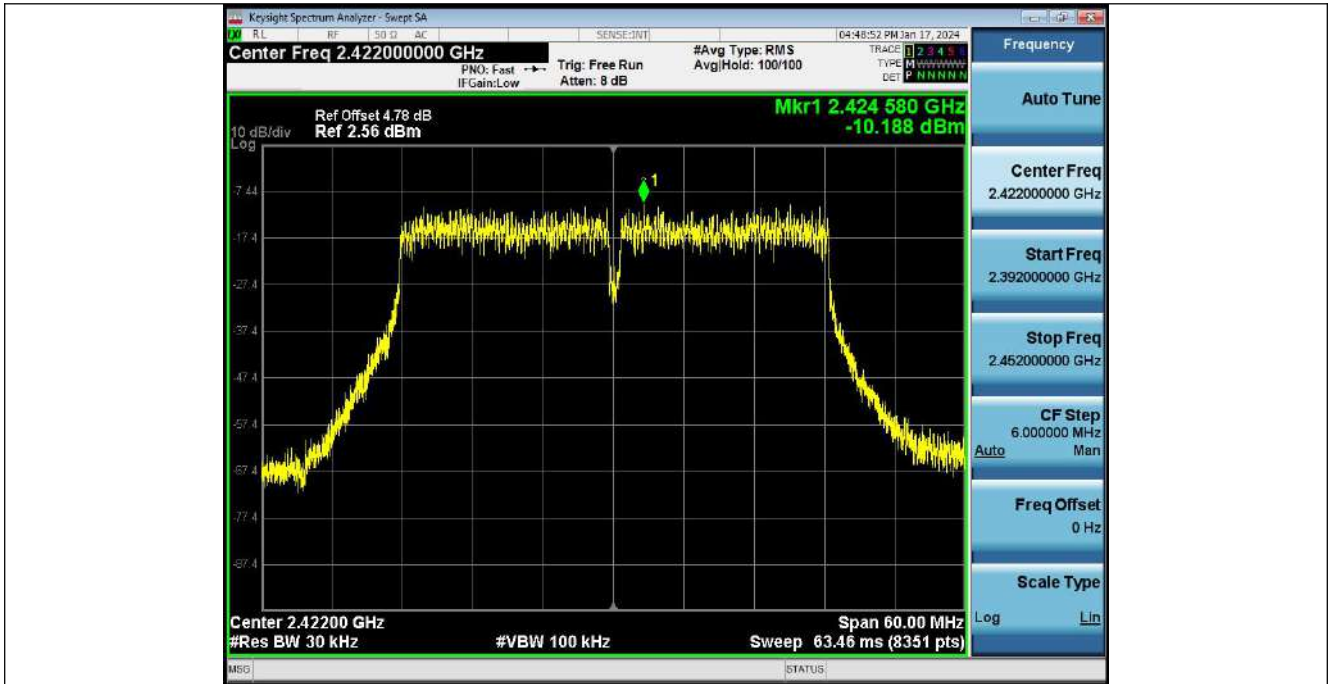
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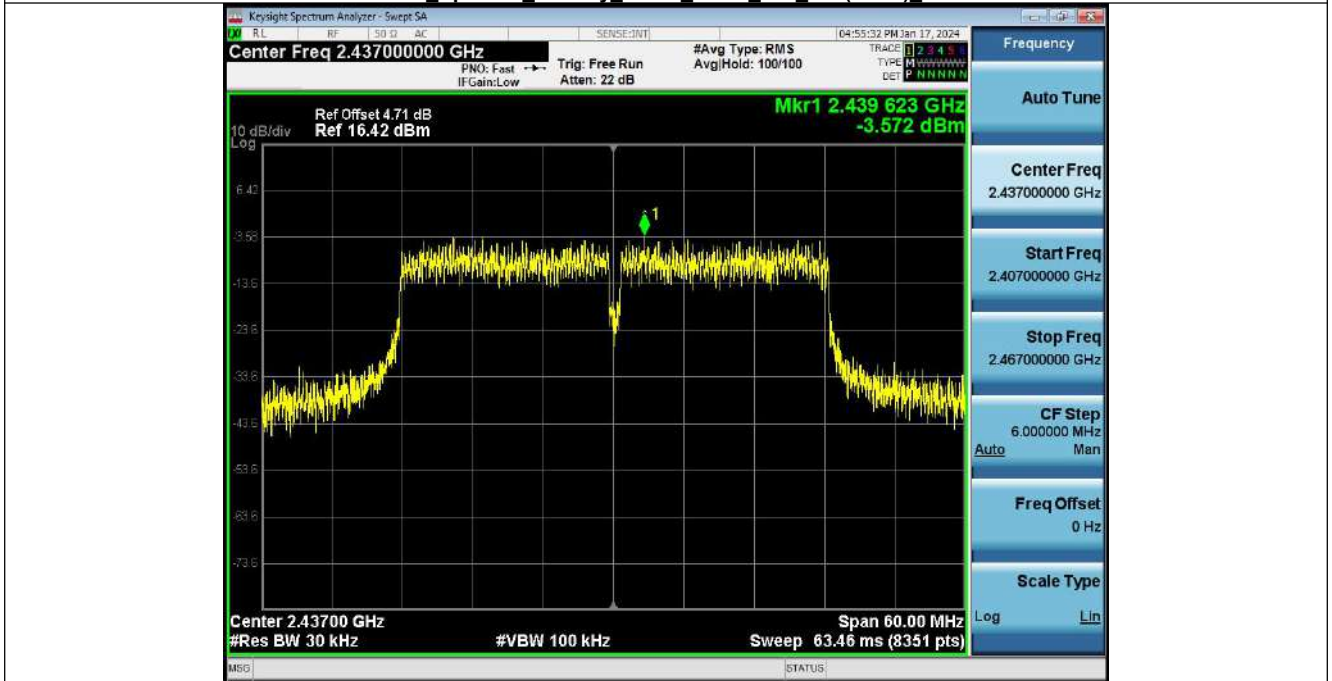
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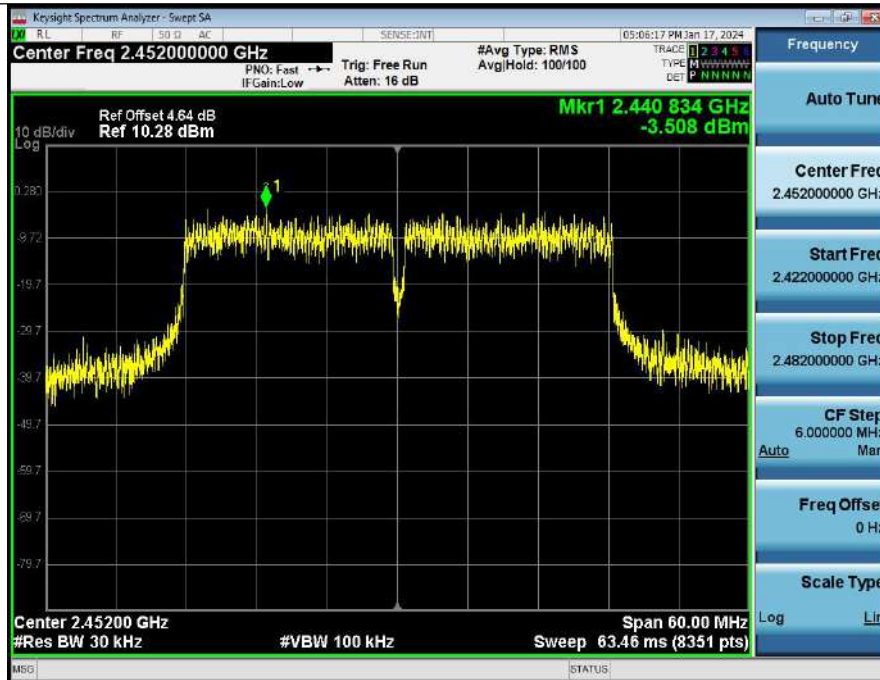
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



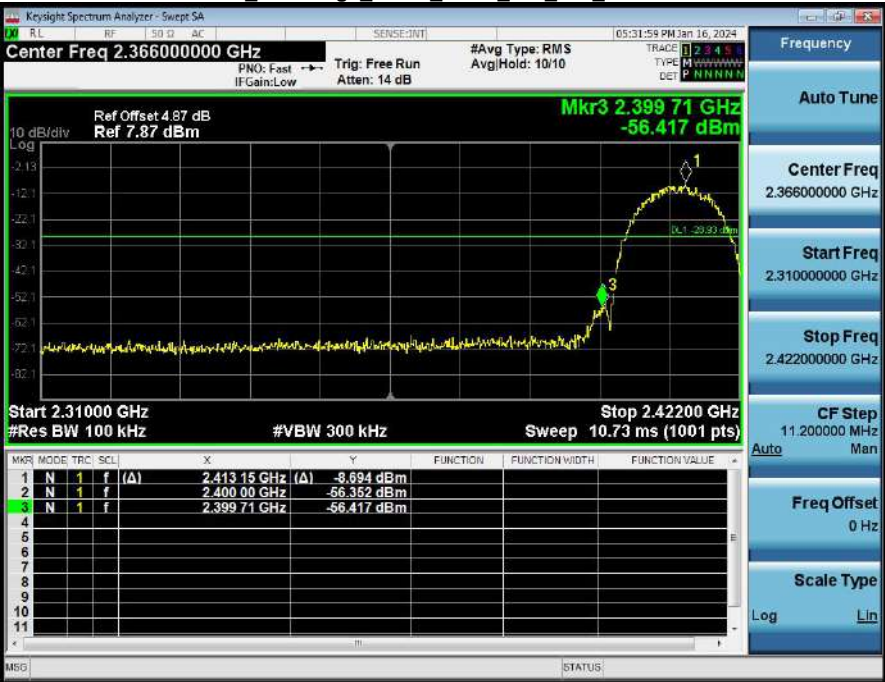
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.712	-56.417	-28.925	Pass
NVNT	ANT1	802.11b	2462.00	2488.192	-55.040	-15.217	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-49.007	-26.634	Pass
NVNT	ANT1	802.11g	2462.00	2483.584	-47.670	-18.968	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-45.592	-21.270	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.824	-54.517	-20.524	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-45.823	-25.176	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.680	-29.726	-18.262	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



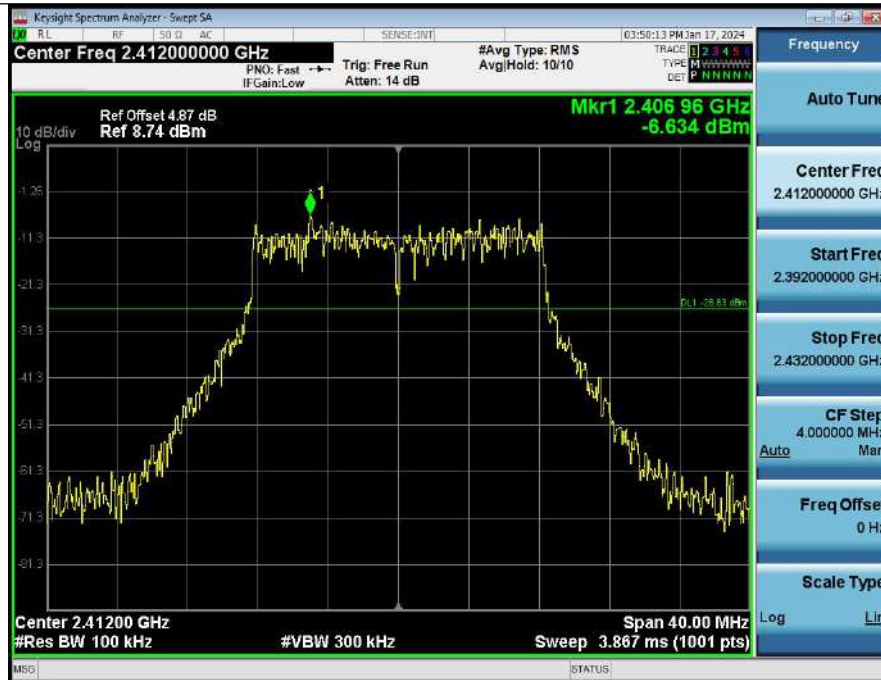
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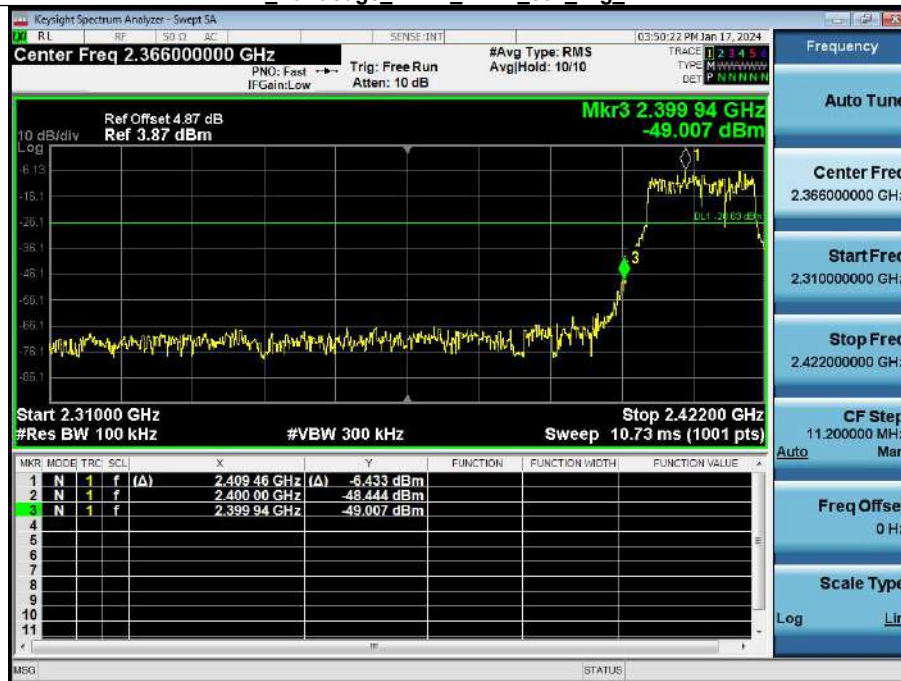
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1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



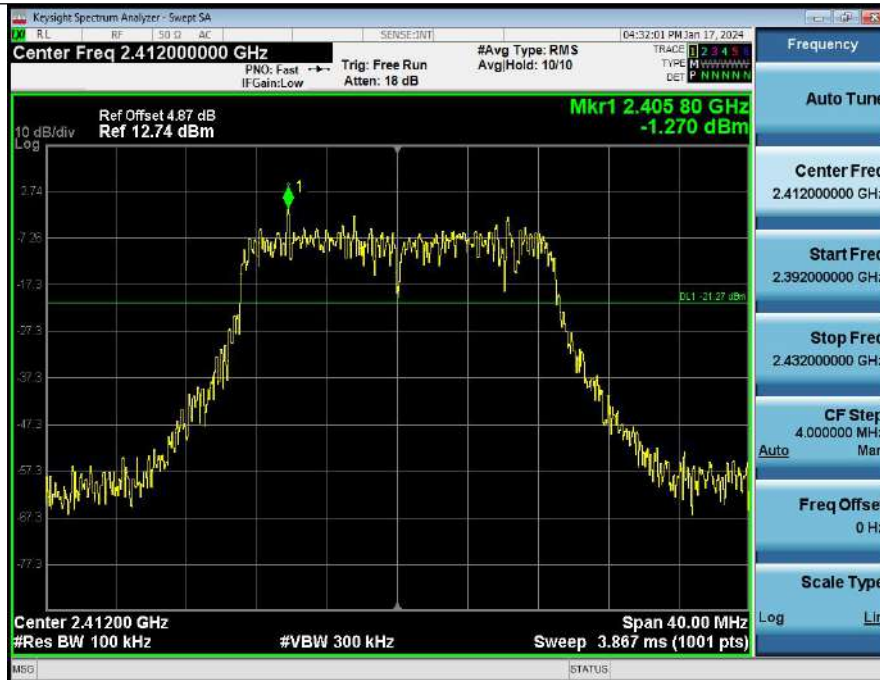
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2_Bandedge_NVNT_ANT1_802_11g_2462



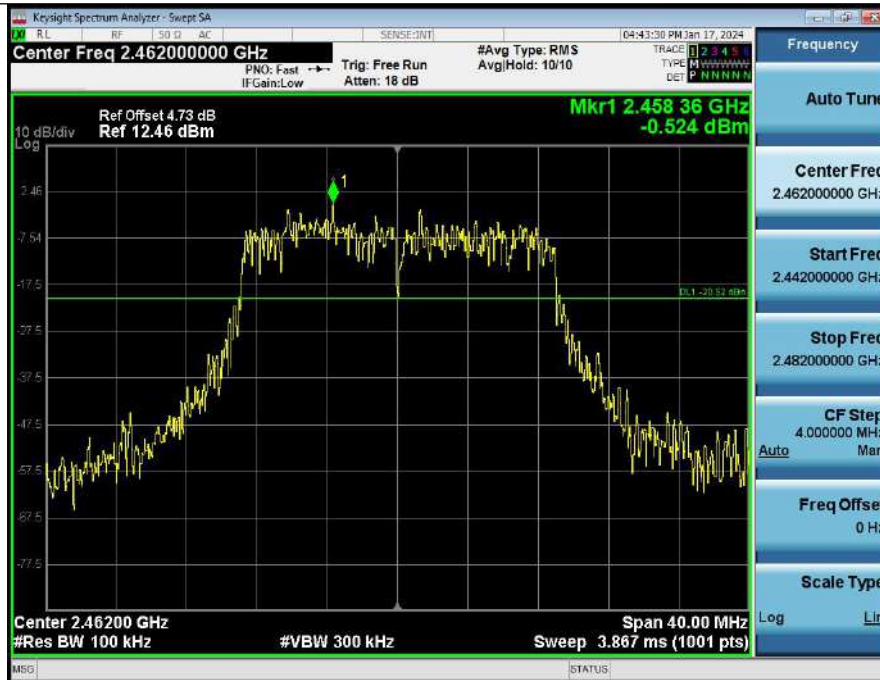
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



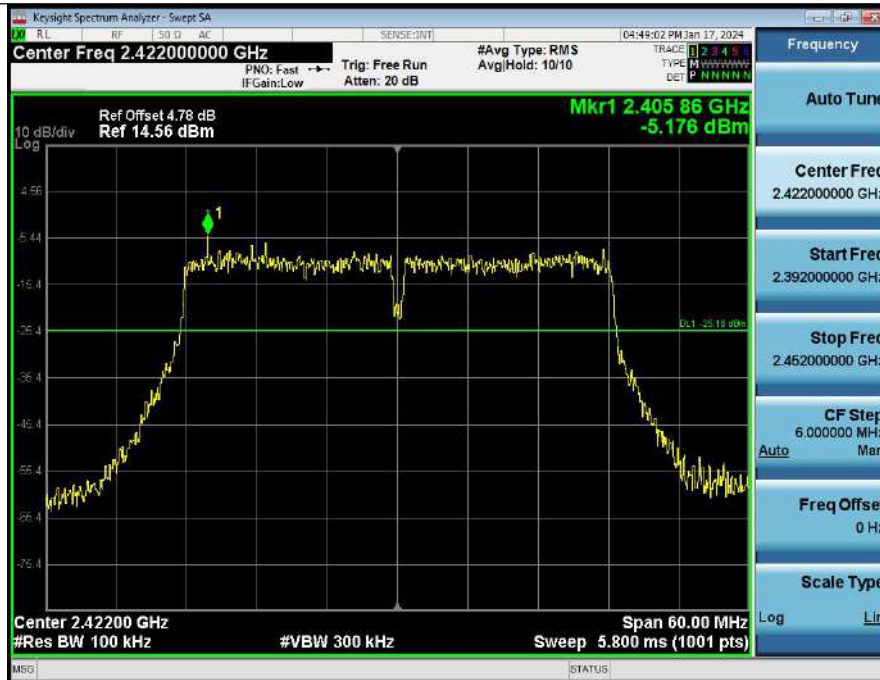
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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



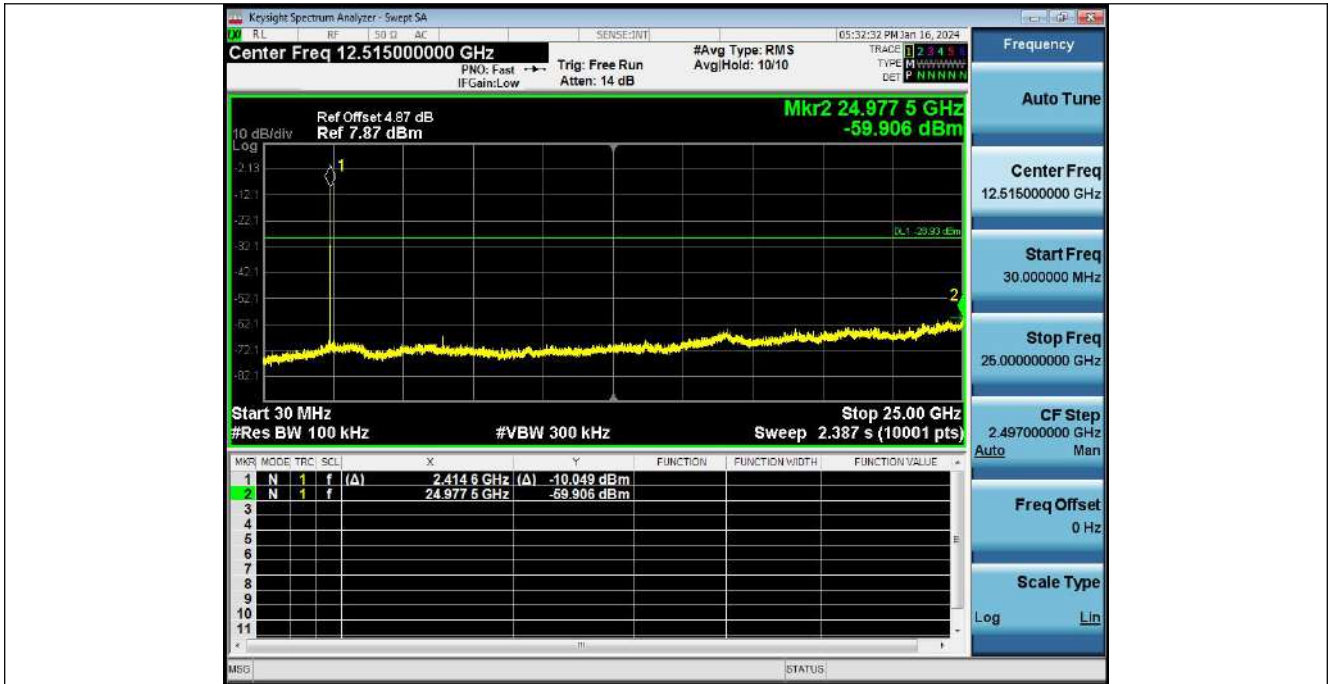
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24977.527	-59.906	-28.925	Pass
NVNT	ANT1	802.11b	2437.00	24897.623	-51.621	-15.296	Pass
NVNT	ANT1	802.11b	2462.00	24965.042	-48.347	-15.217	Pass
NVNT	ANT1	802.11g	2412.00	24927.587	-64.275	-26.634	Pass
NVNT	ANT1	802.11g	2437.00	24977.527	-60.133	-21.570	Pass
NVNT	ANT1	802.11g	2462.00	24990.012	-49.951	-18.968	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24957.551	-59.123	-21.270	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24972.533	-51.975	-19.503	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24985.018	-60.397	-20.524	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24967.539	-57.273	-25.176	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	1752.930	-47.509	-18.508	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2504.527	-46.385	-18.262	Pass

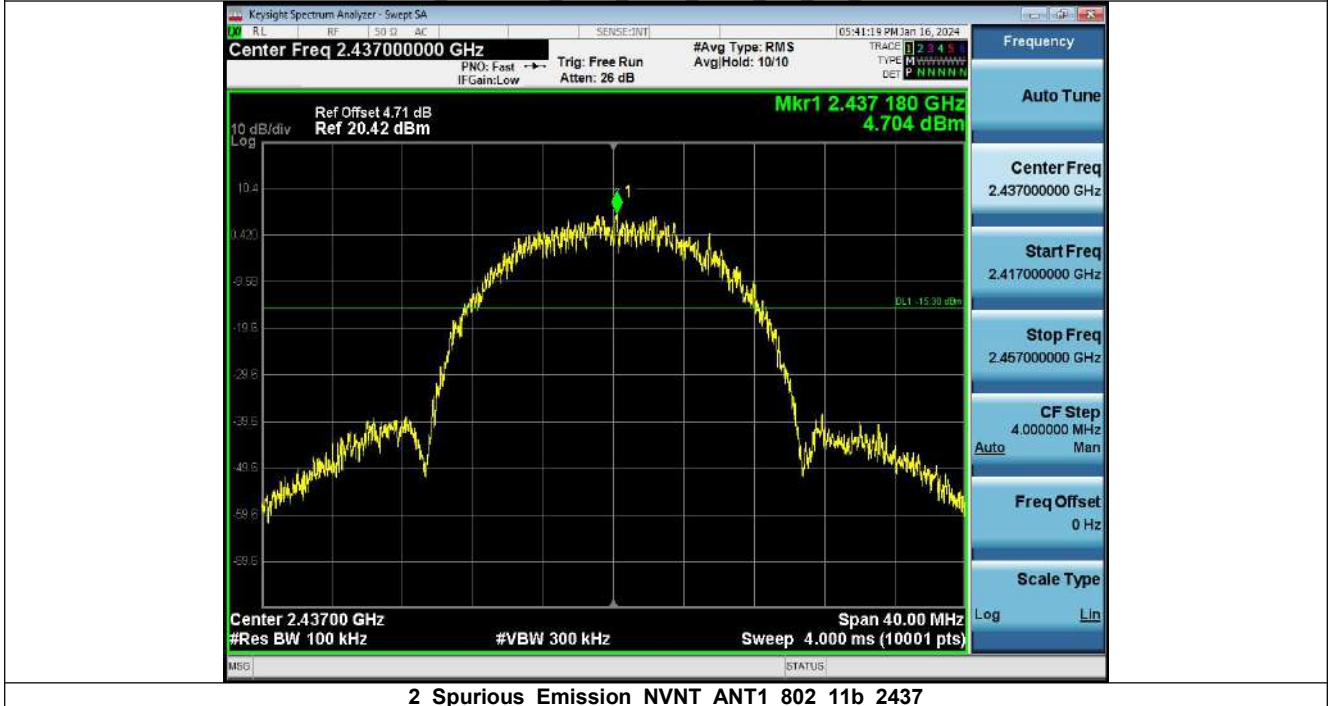
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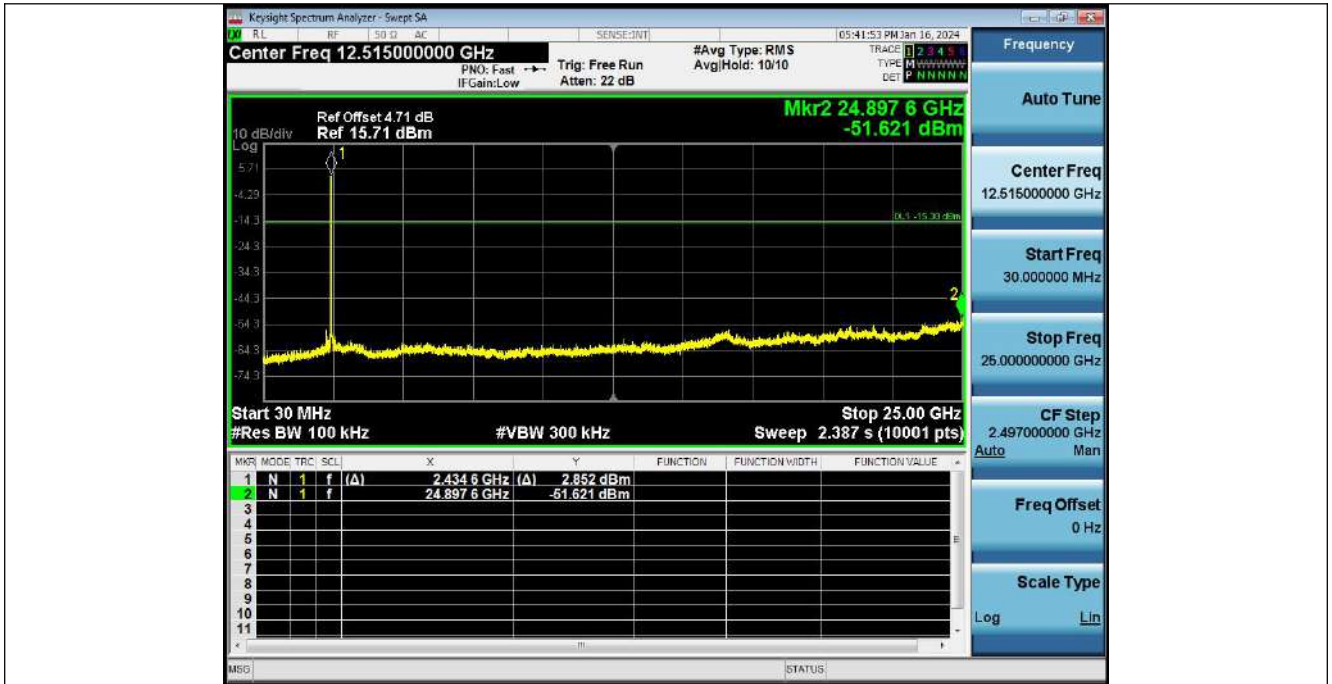
2 Spurious Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT_ANT1_802_11b_2437



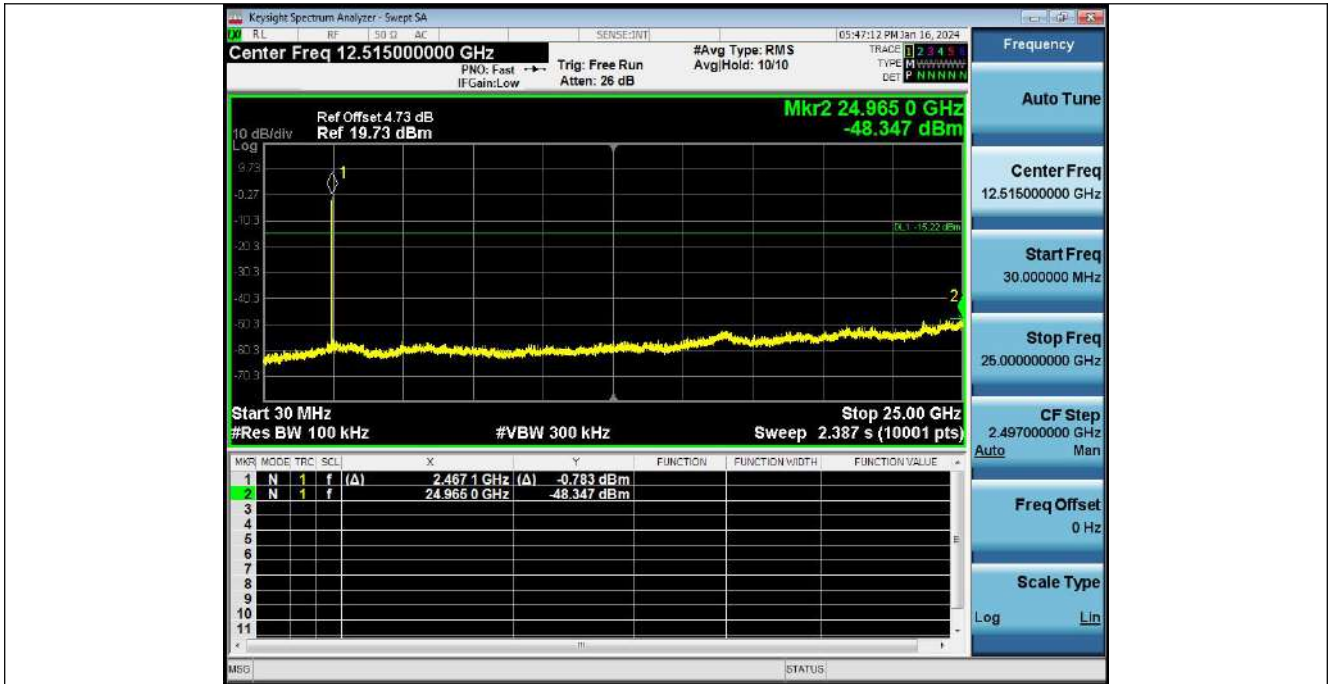
2 Spurious Emission_NVNT_ANT1_802_11b_2437



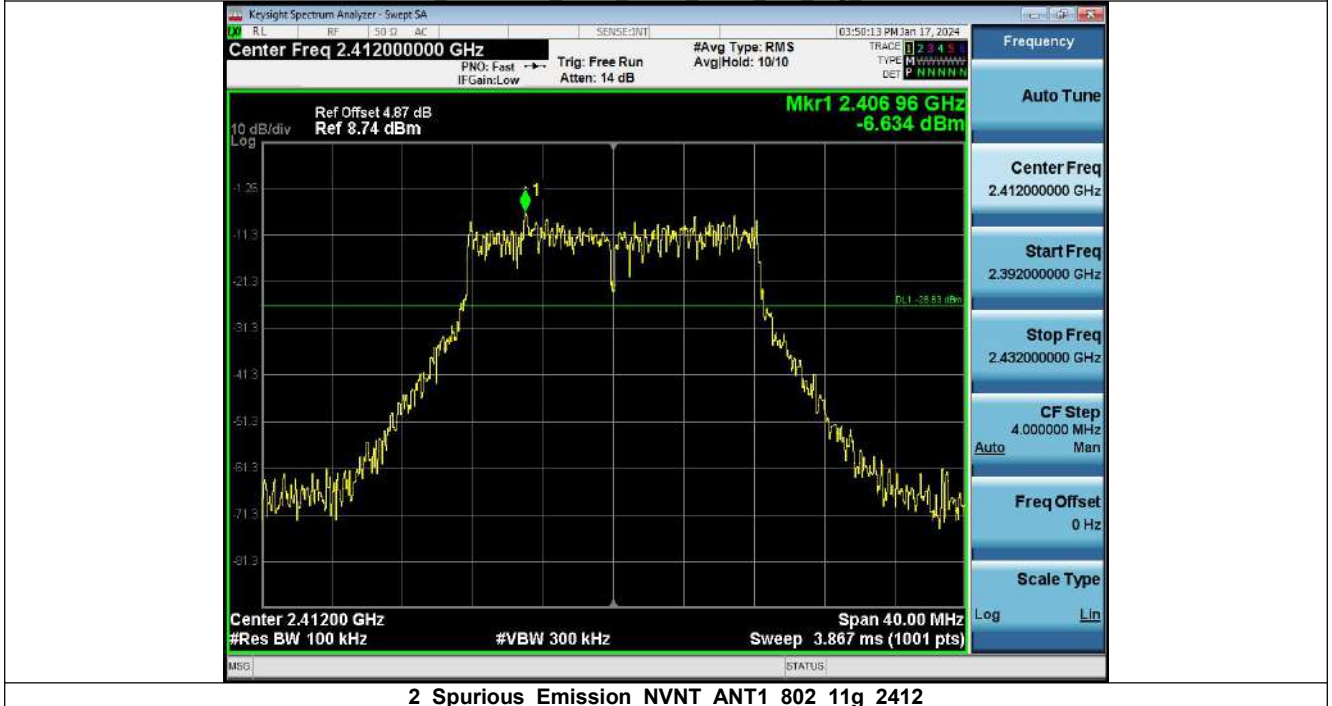
1 Reference Level NVNT ANT1 802 11b 2462



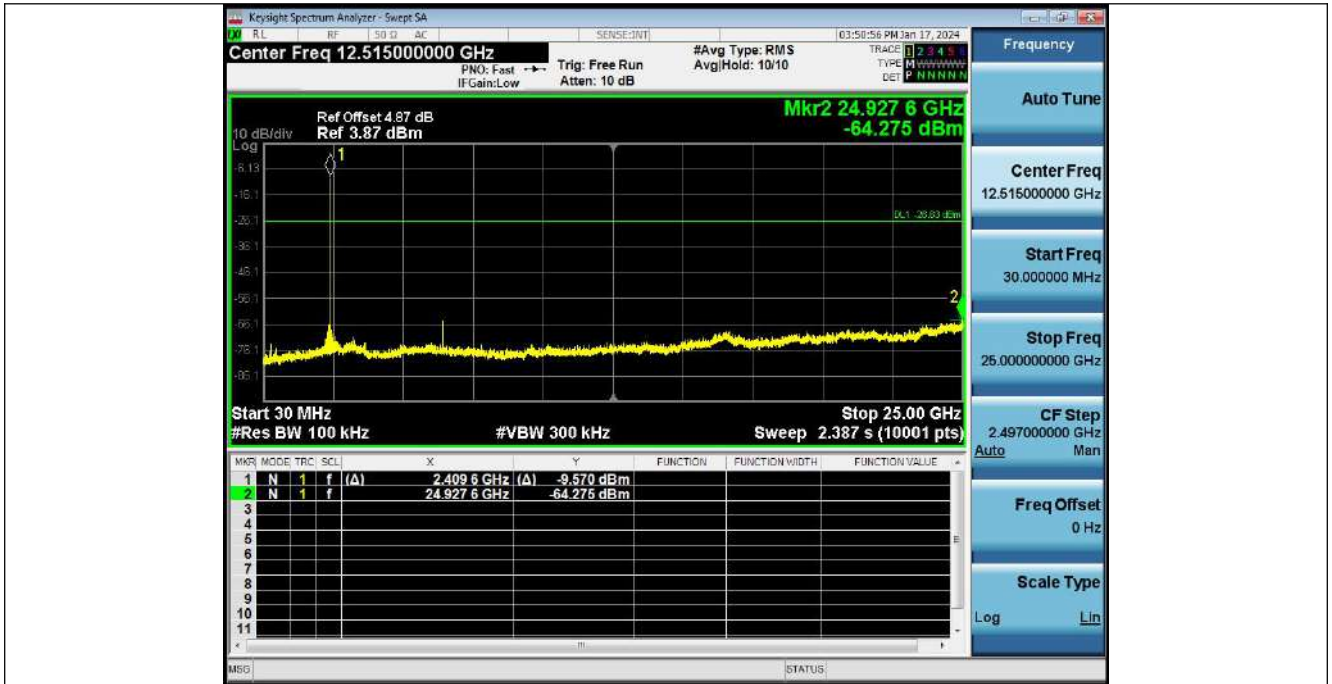
2 Spurious Emission NVNT ANT1 802 11b 2462



1 Reference Level NVNT_ANT1_802_11g_2412



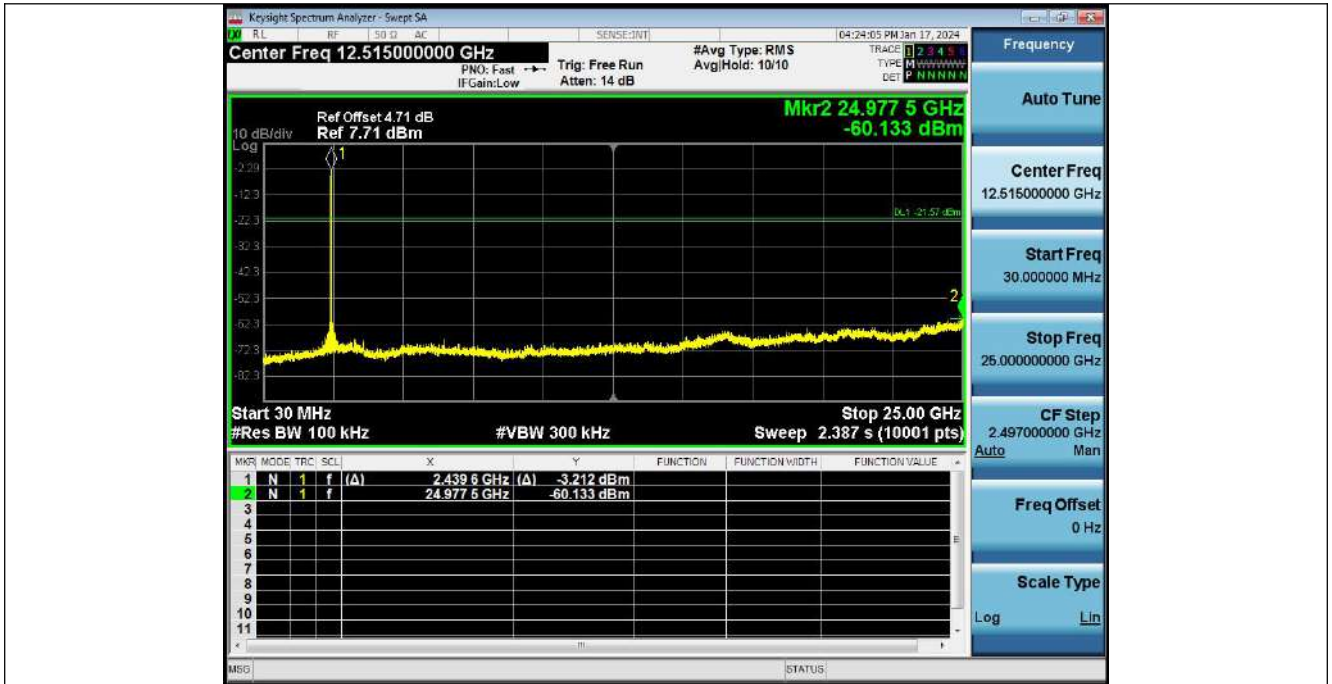
2 Spurious Emission NVNT_ANT1_802_11g_2412



1 Reference Level NVNT ANT1 802 11g 2437



2 Spurious Emission NVNT ANT1 802 11g 2437



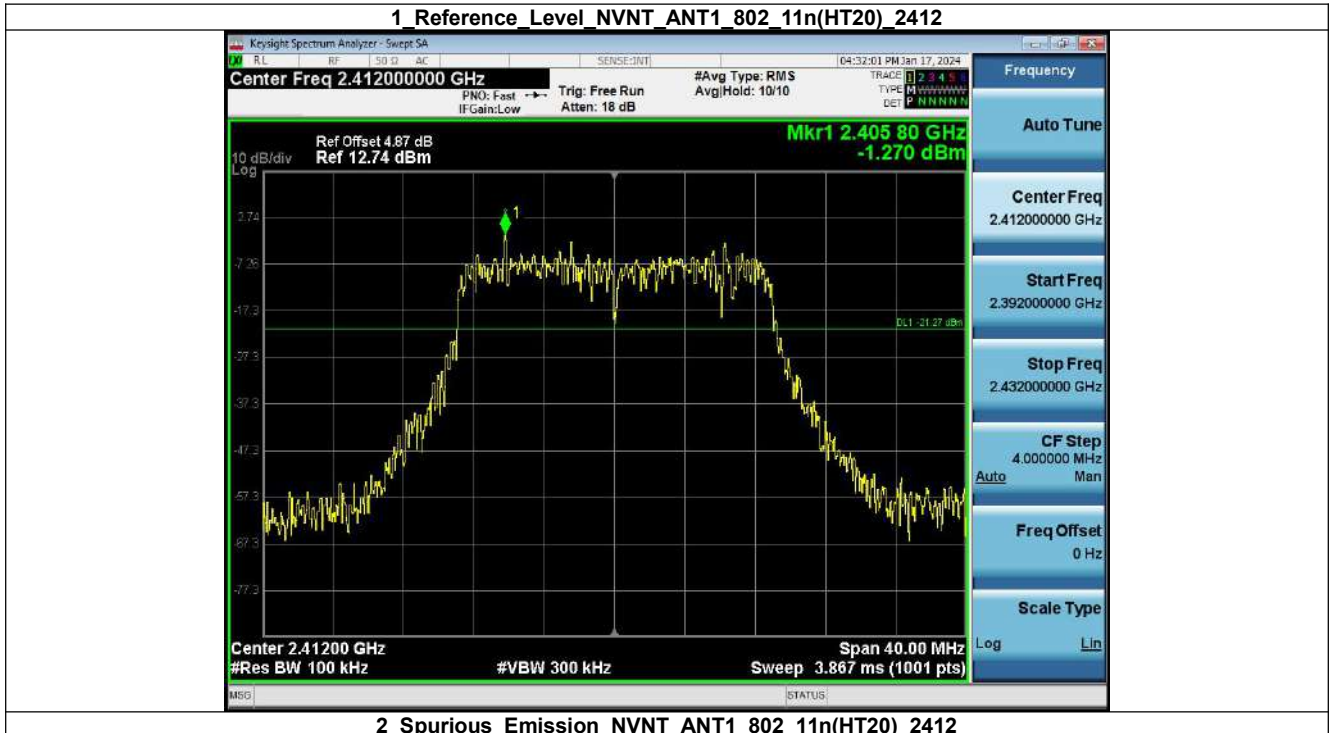
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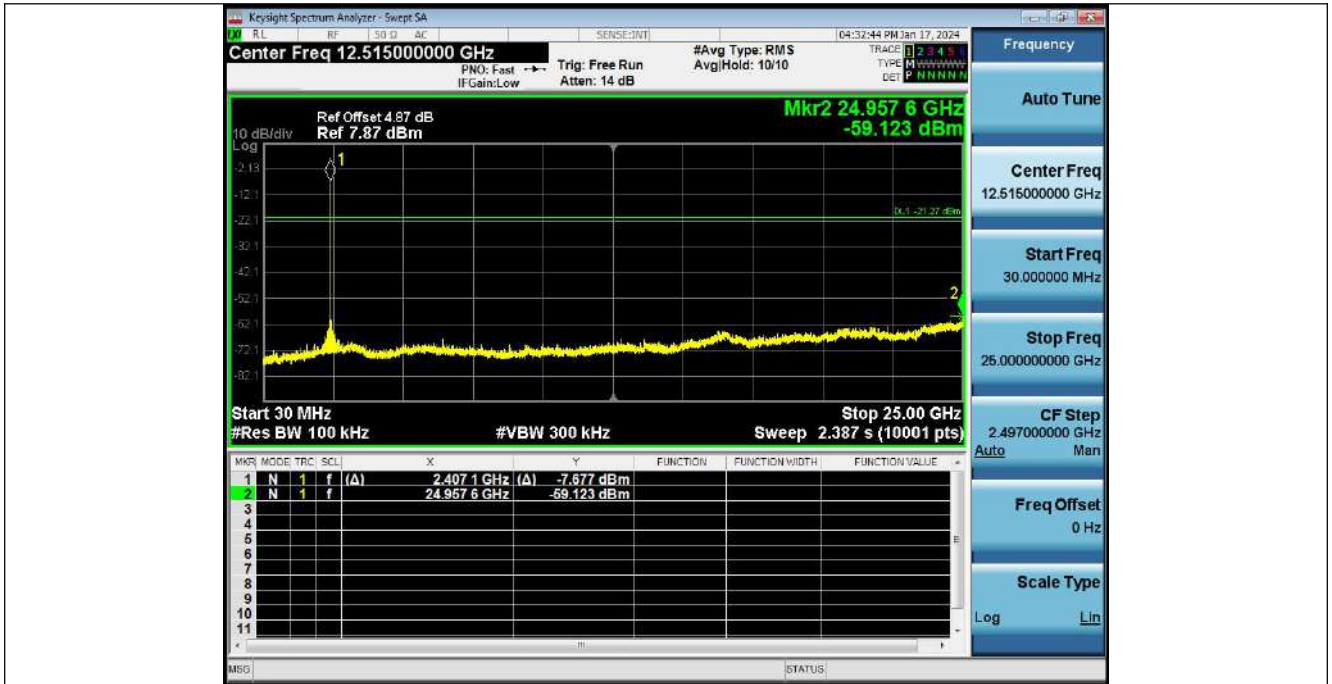
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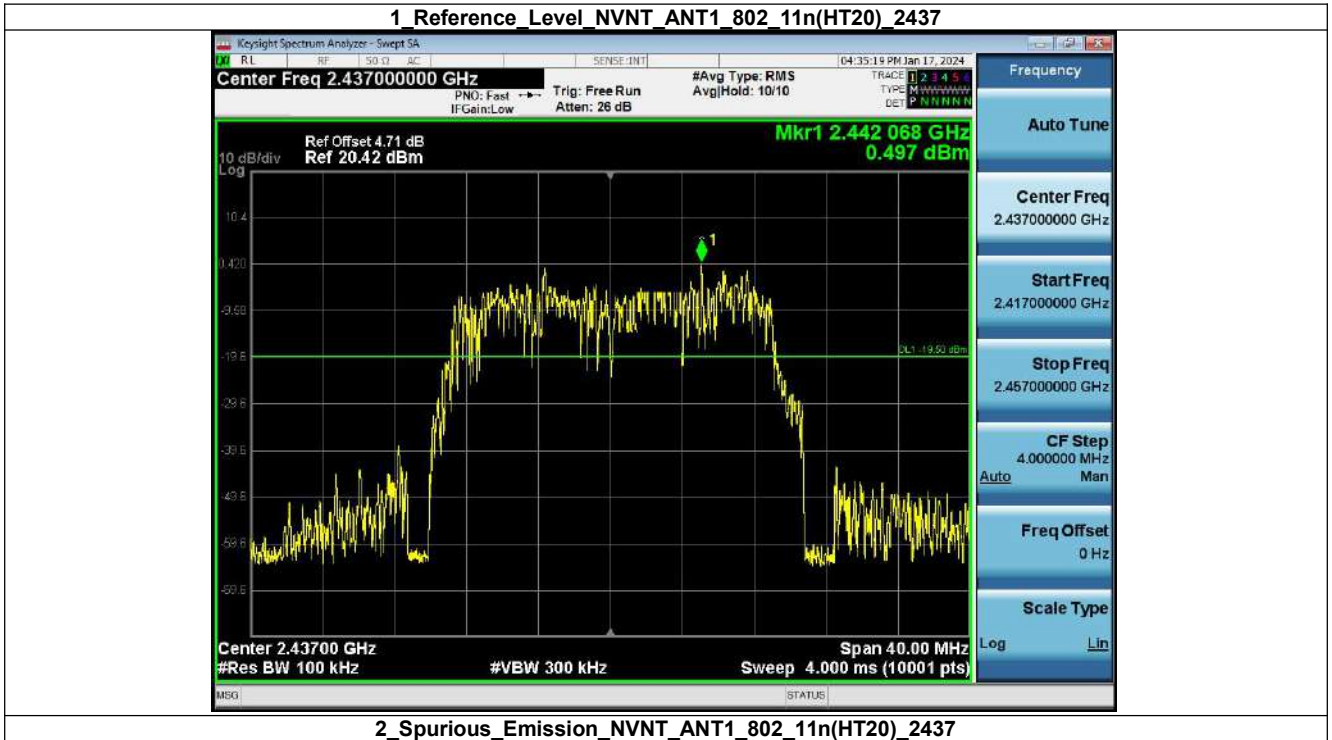
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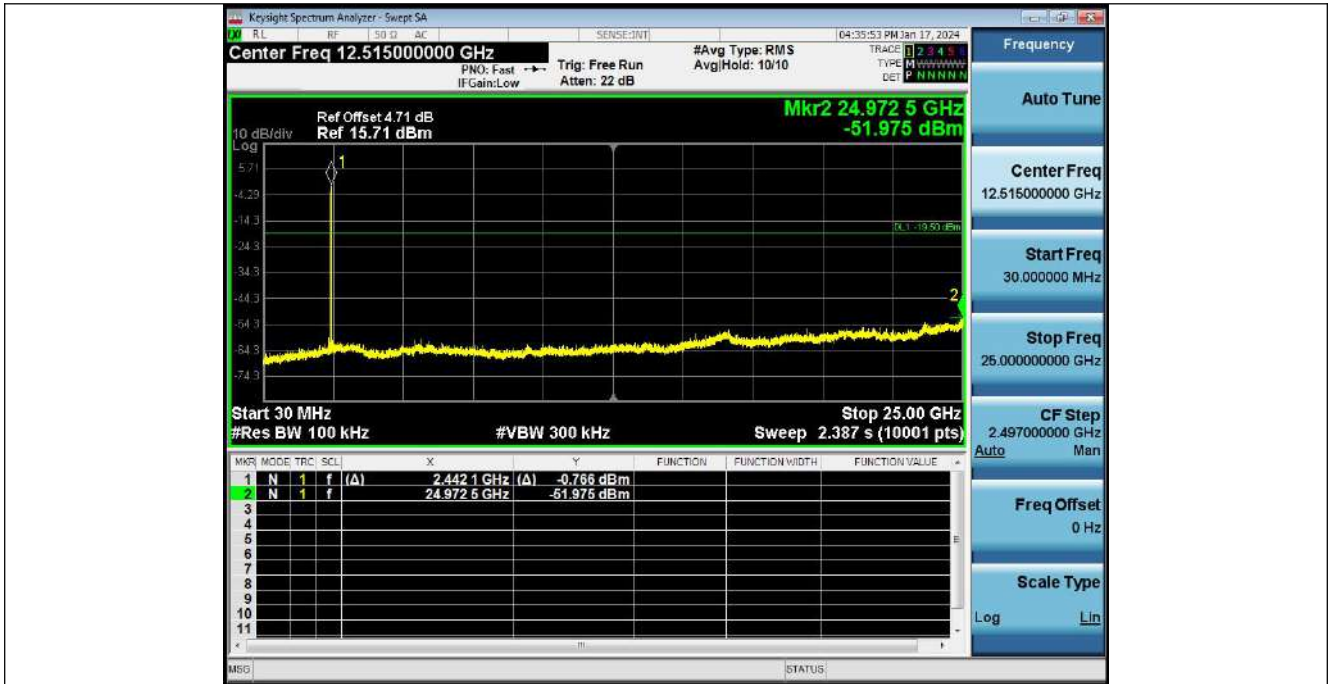
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1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



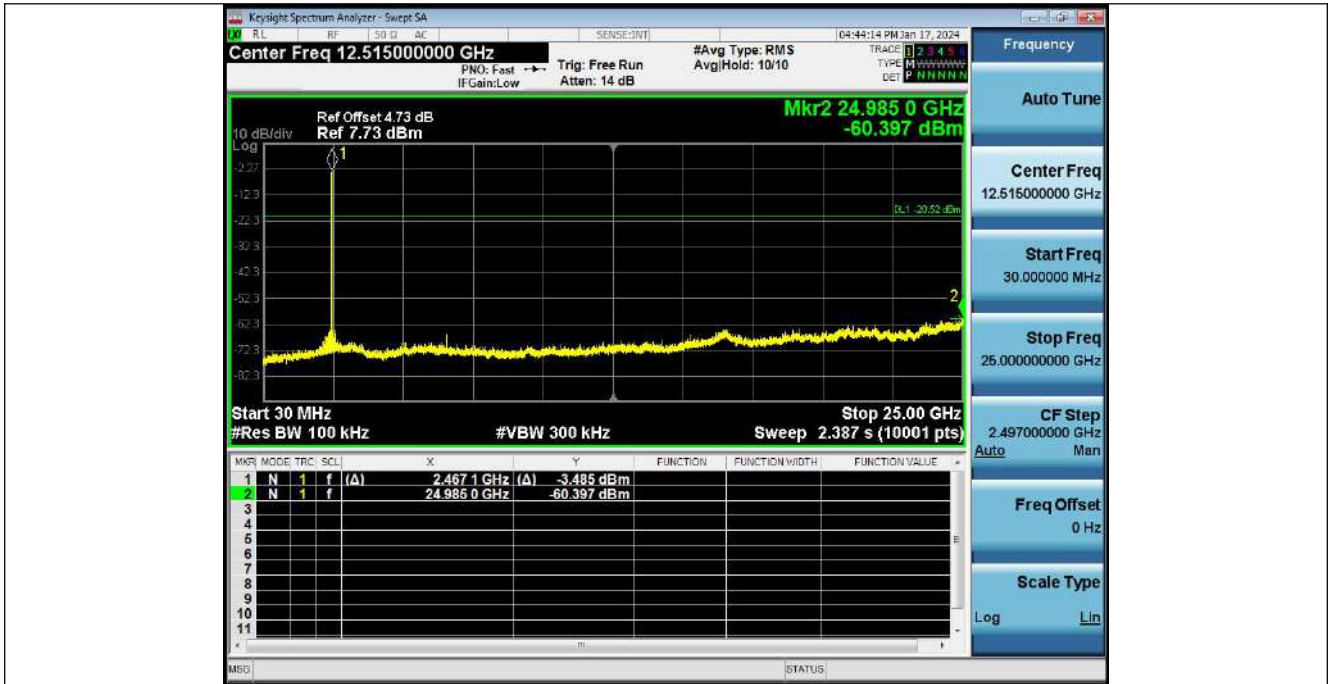
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



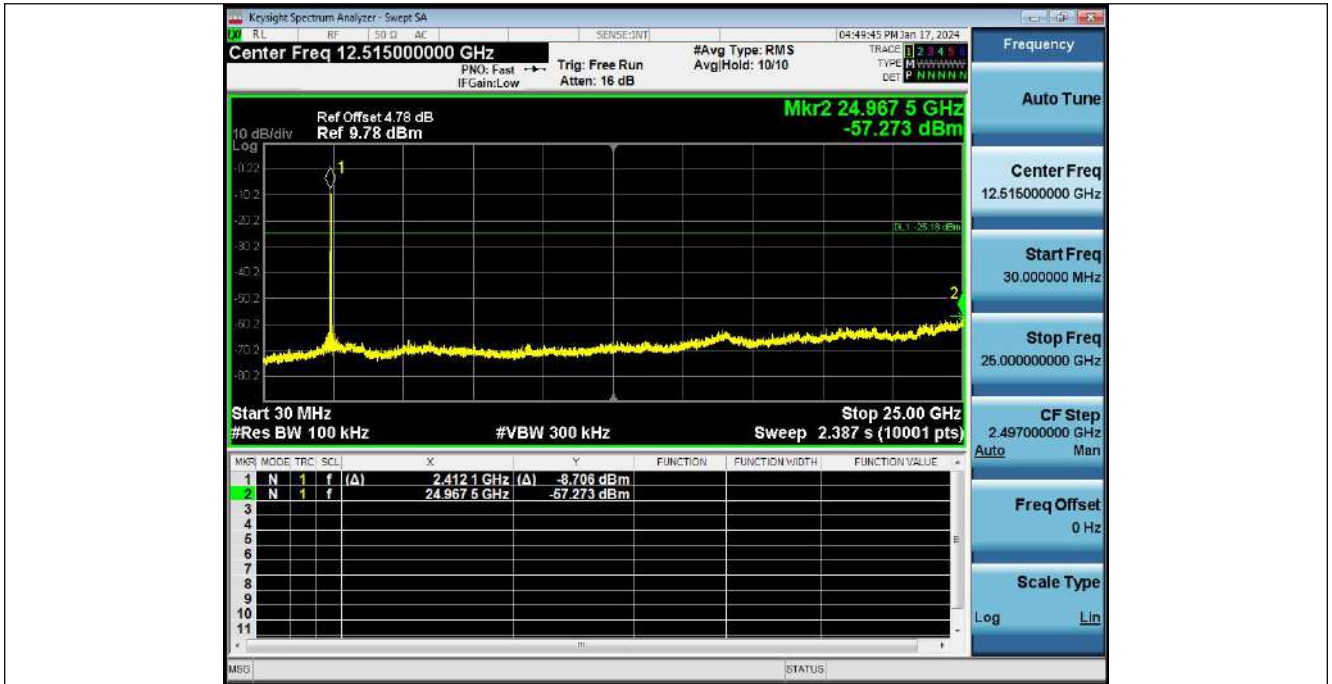
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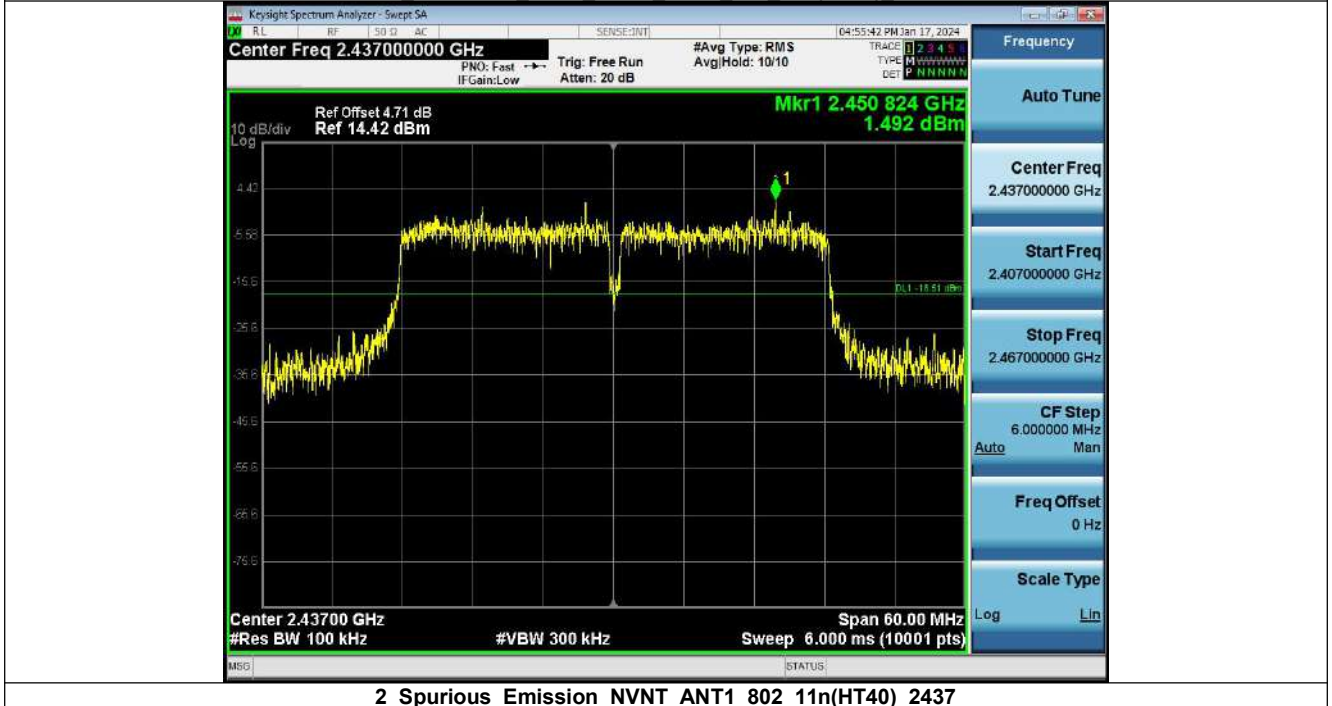
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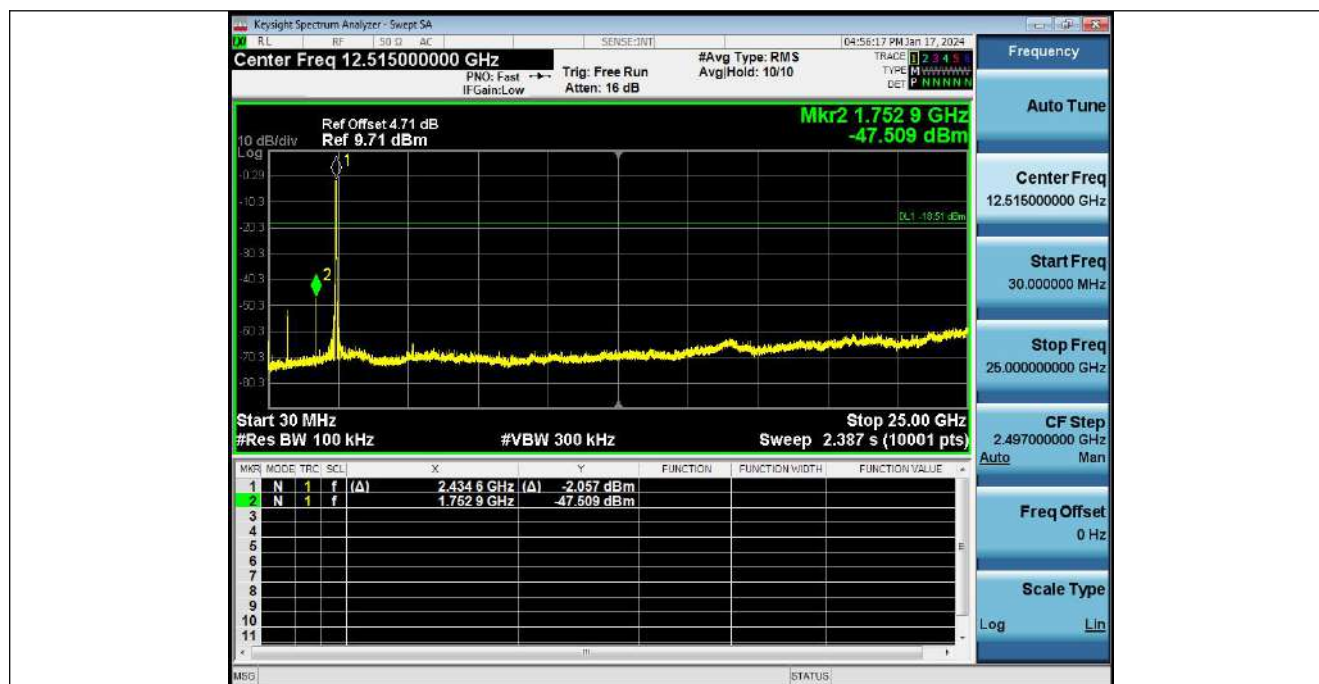
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



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

