

Appendix

2.4G_WIFI Test Data for BTEK240506004AE



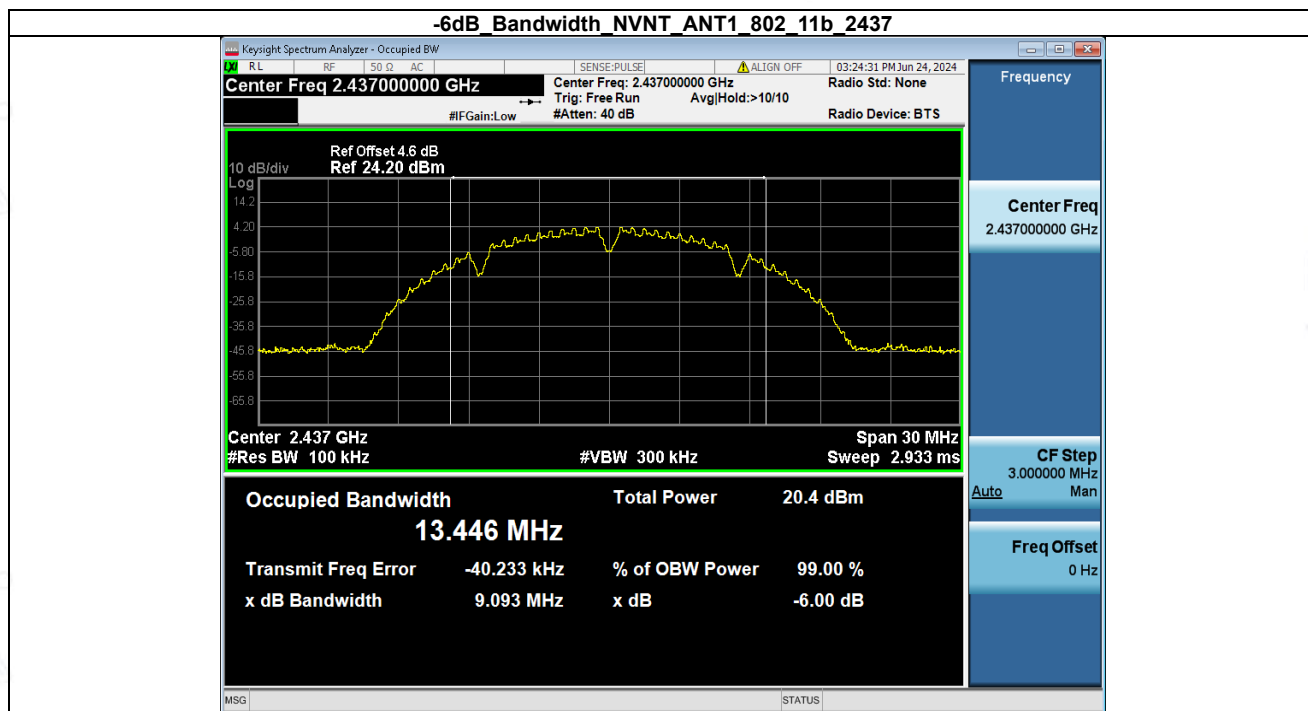
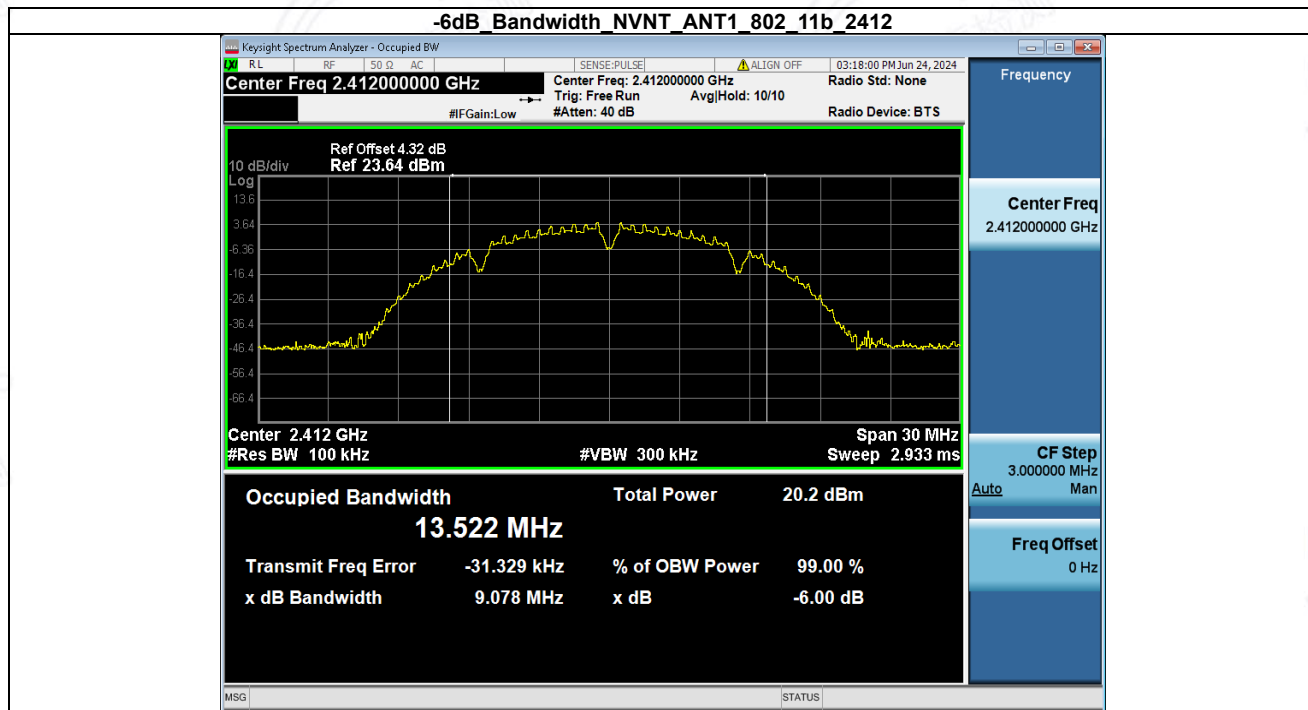
Table of Contents

1. -6dB Bandwidth	3
2. 99% Occupied Bandwidth	8
3. Duty Cycle	13
4. MAX. Output Power	18
5. Power Spectral Density	19
6. Bandedge	24
7. Spurious Emission	30



1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.08	500	Pass
NVNT	ANT1	802.11b	2437.00	9.09	500	Pass
NVNT	ANT1	802.11b	2462.00	9.09	500	Pass
NVNT	ANT1	802.11g	2412.00	16.59	500	Pass
NVNT	ANT1	802.11g	2437.00	16.59	500	Pass
NVNT	ANT1	802.11g	2462.00	16.59	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.82	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.80	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.80	500	Pass



-6dB Bandwidth NVNT ANT1 802 11b 2462

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Add : A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street

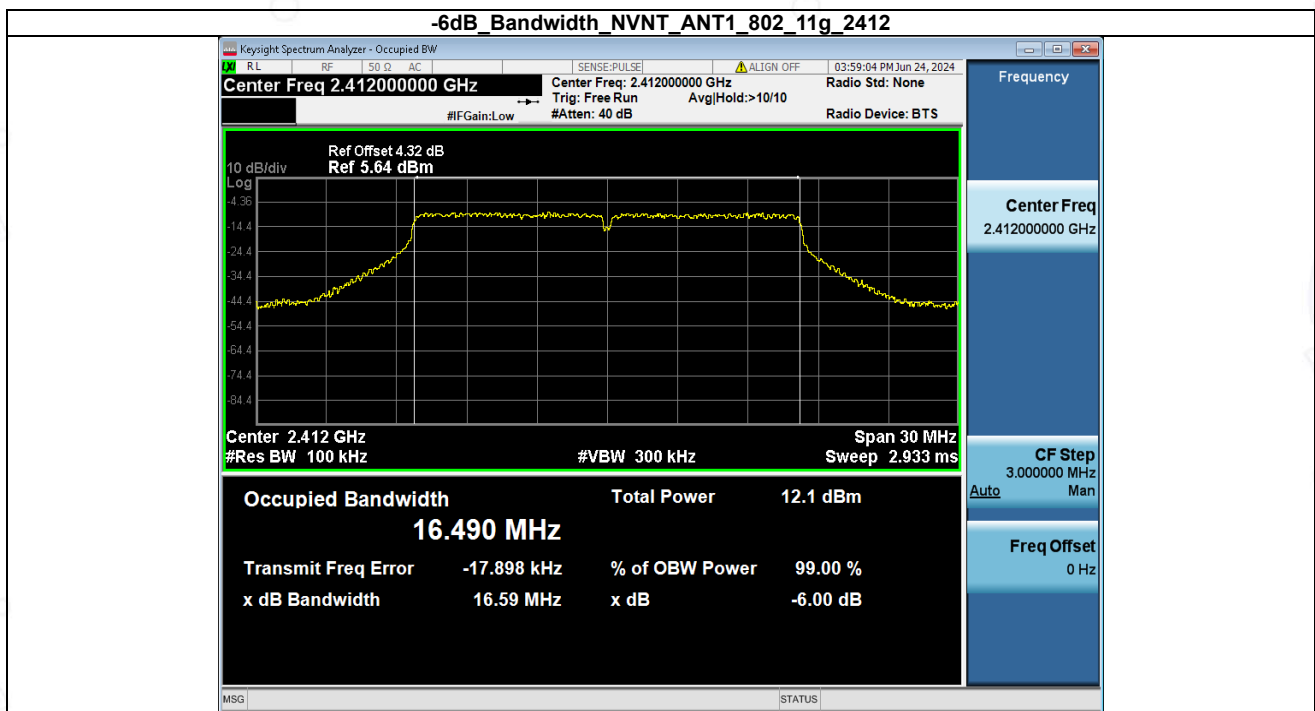
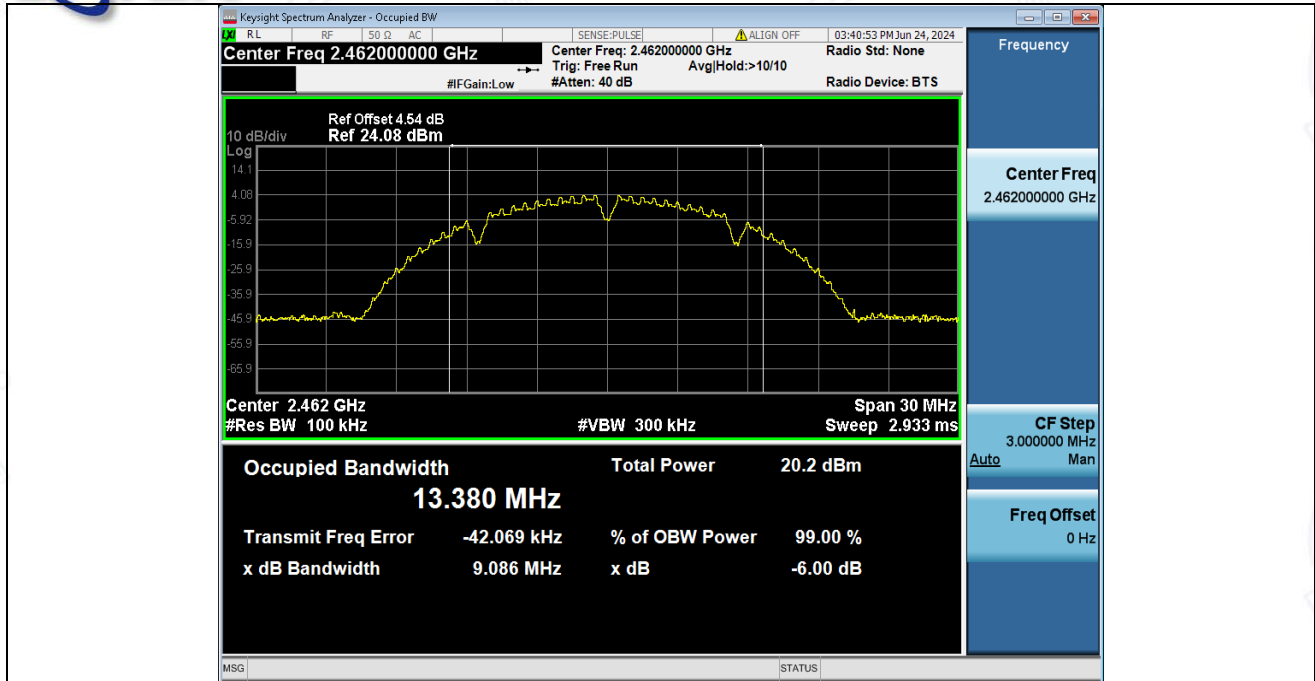
Bao'an District, Shenzhen, Guangdong, China 518104

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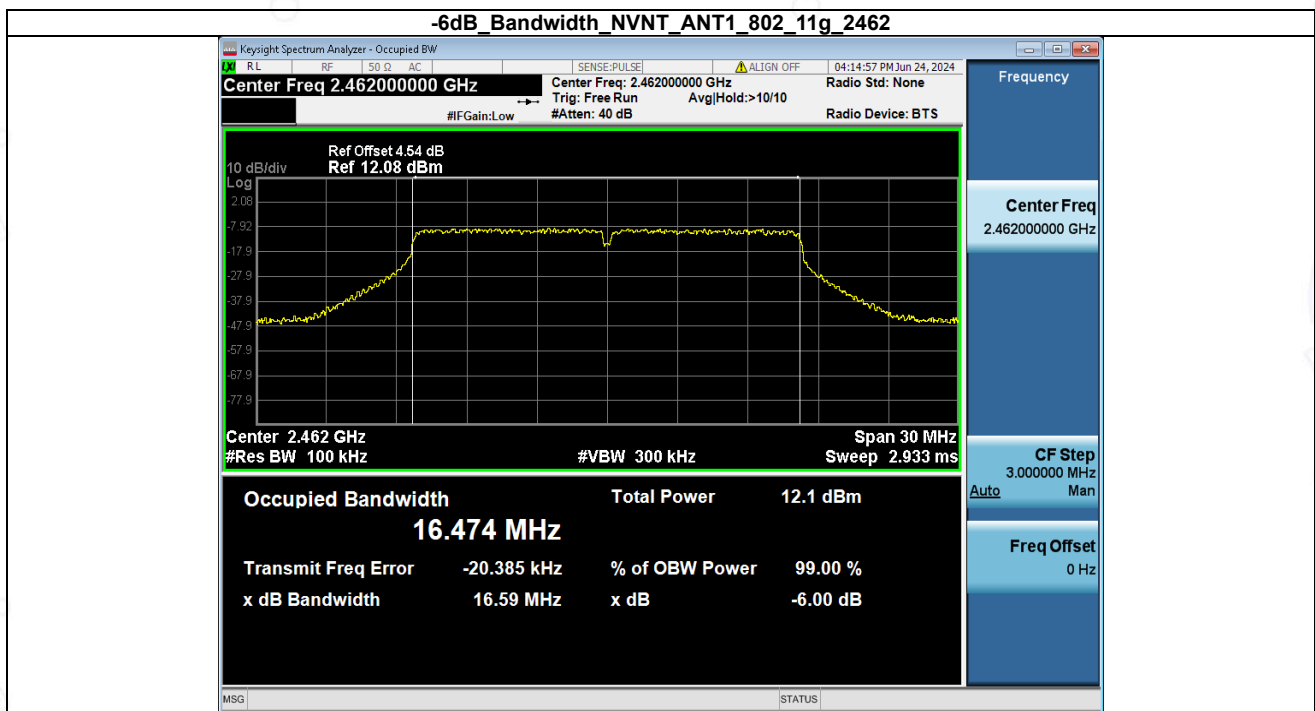
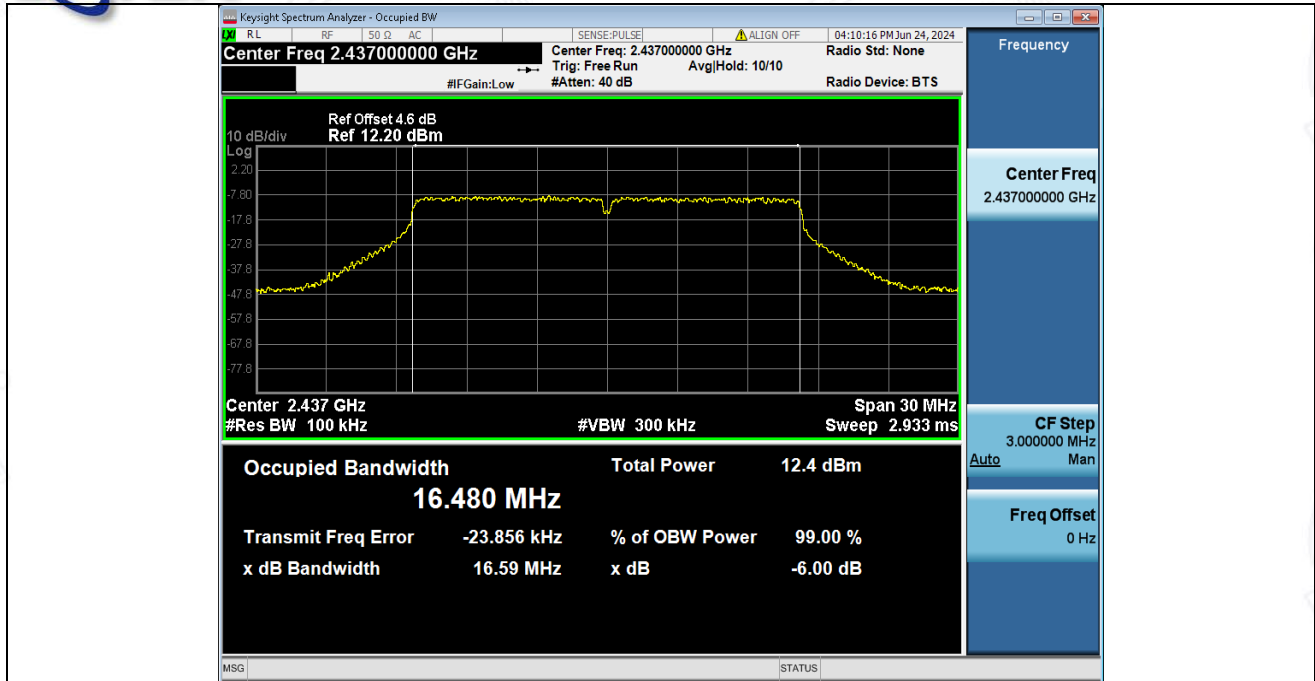
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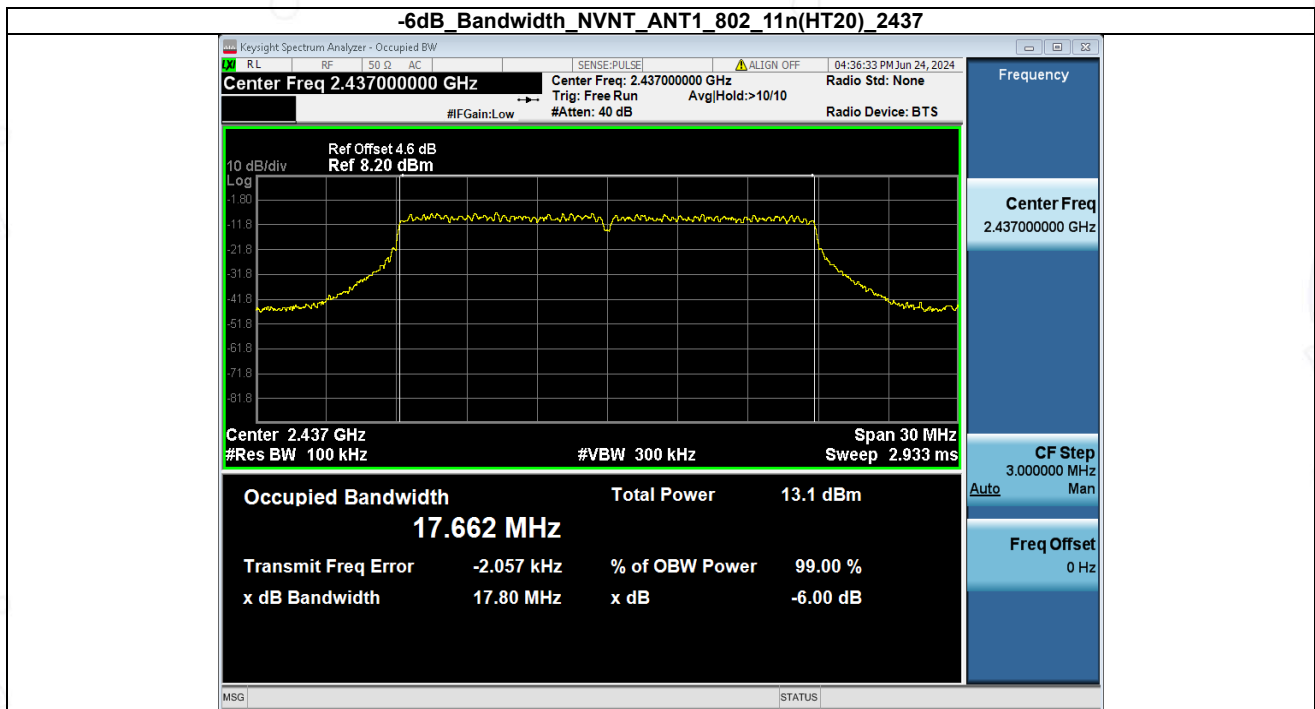
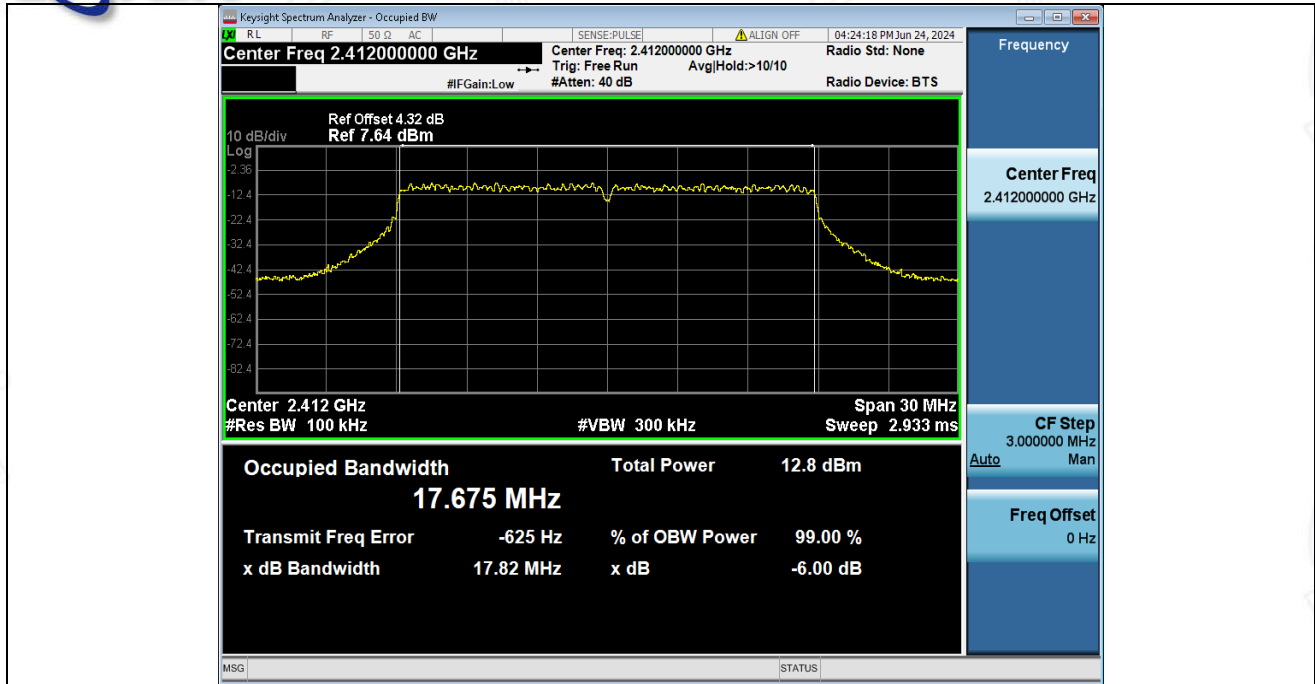
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437





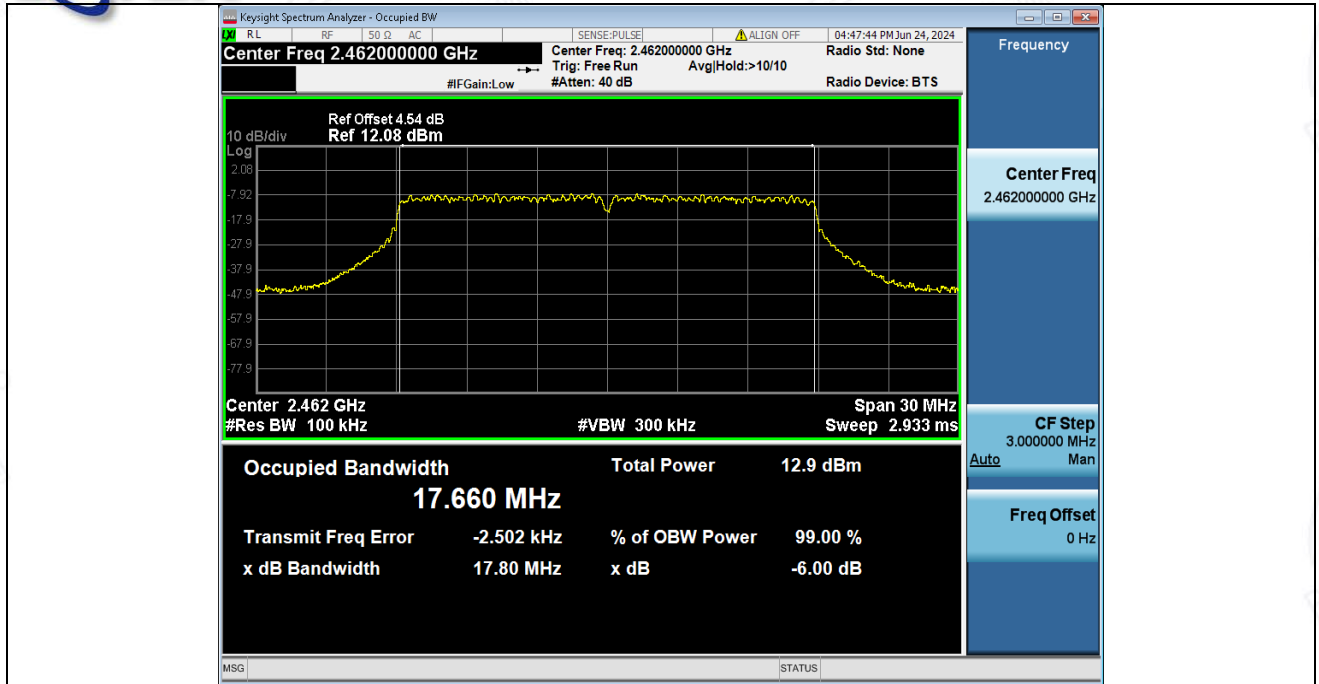
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412





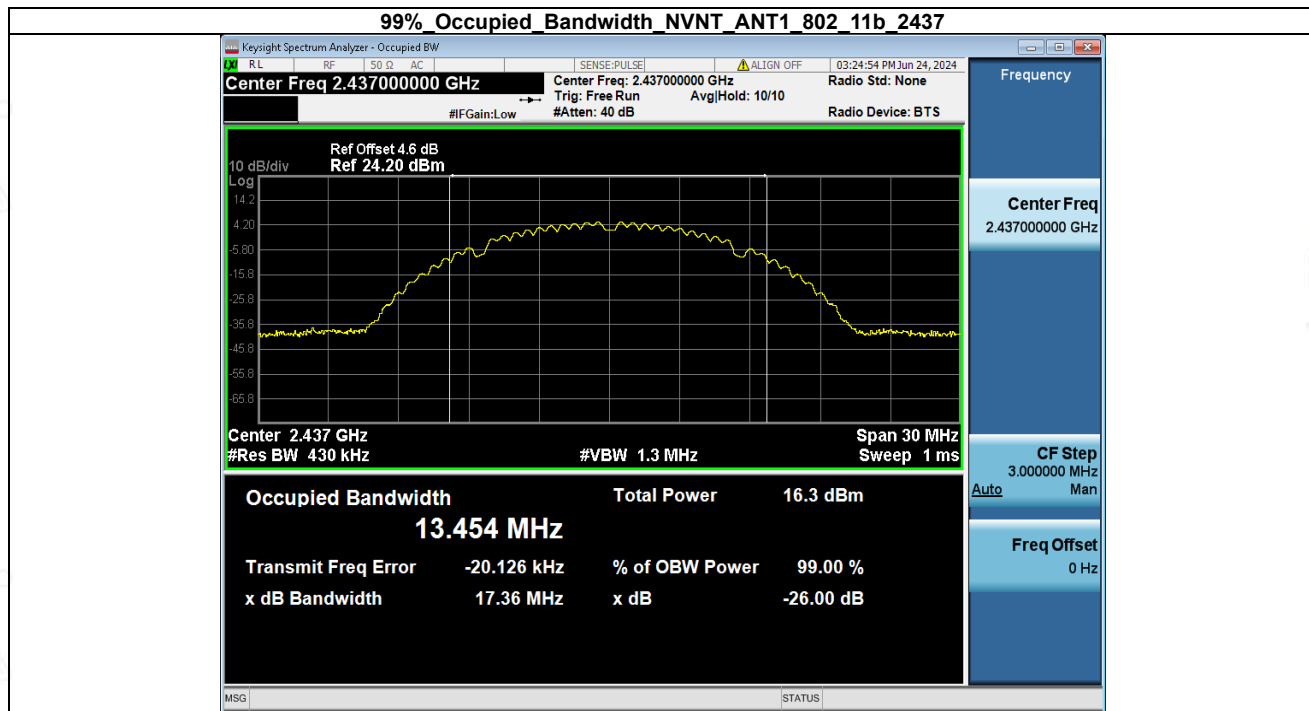
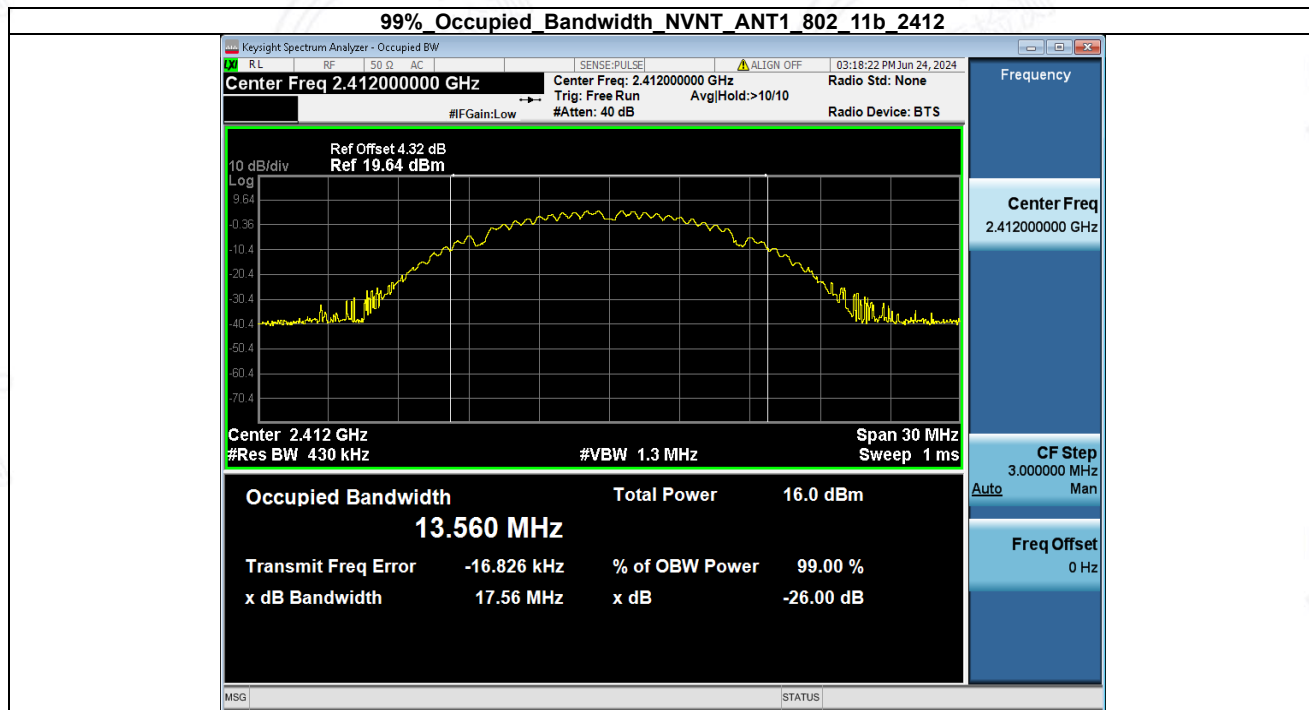
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.560
NVNT	ANT1	802.11b	2437.00	13.454
NVNT	ANT1	802.11b	2462.00	13.394
NVNT	ANT1	802.11g	2412.00	17.395
NVNT	ANT1	802.11g	2437.00	17.373
NVNT	ANT1	802.11g	2462.00	17.345
NVNT	ANT1	802.11n(HT20)	2412.00	18.056
NVNT	ANT1	802.11n(HT20)	2437.00	18.012
NVNT	ANT1	802.11n(HT20)	2462.00	18.001



99% Occupied Bandwidth_NVNT_ANT1_802_11b_2462

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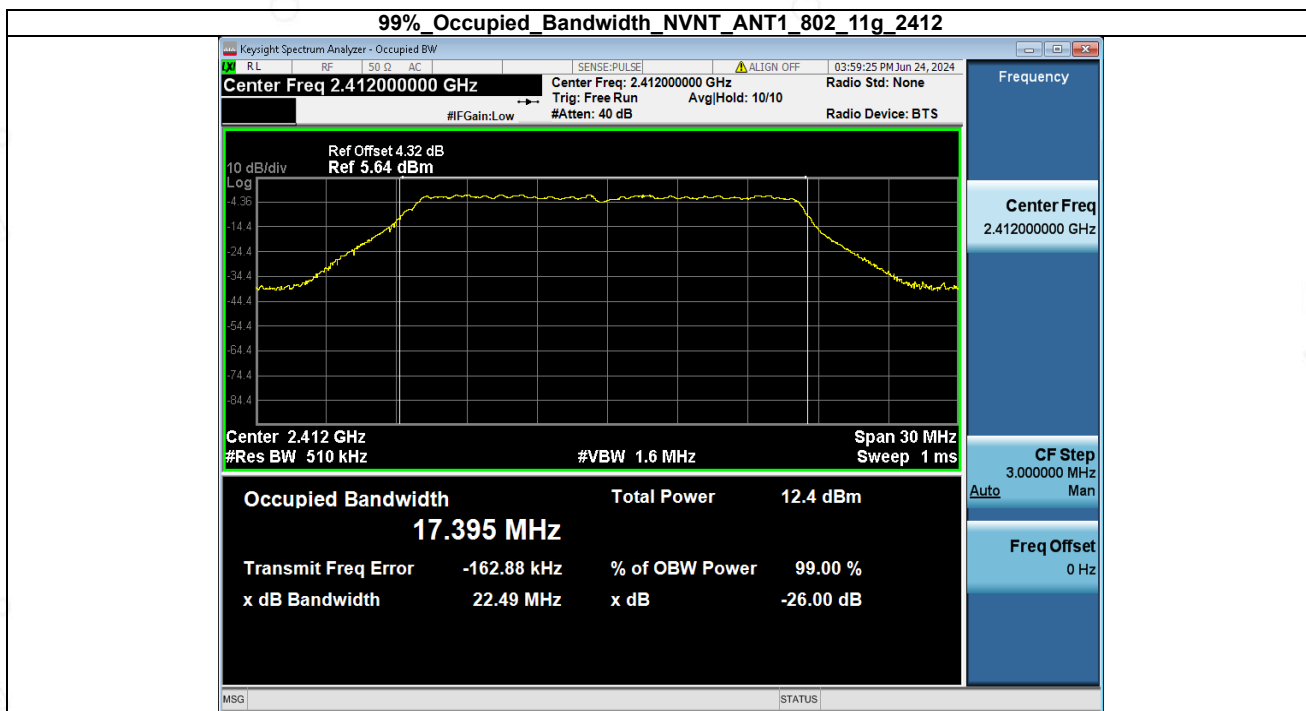
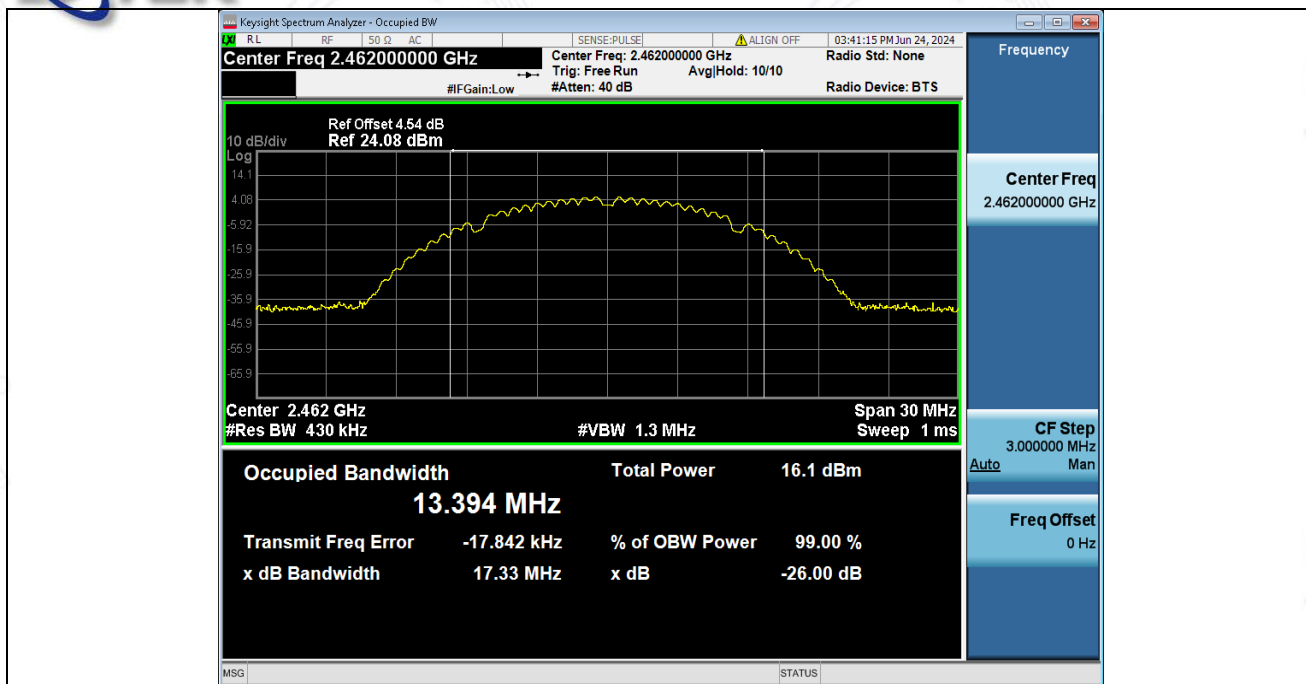
Bao'an District, Shenzhen, Guangdong, China 518104

Tel : +(86)755-2334 4200

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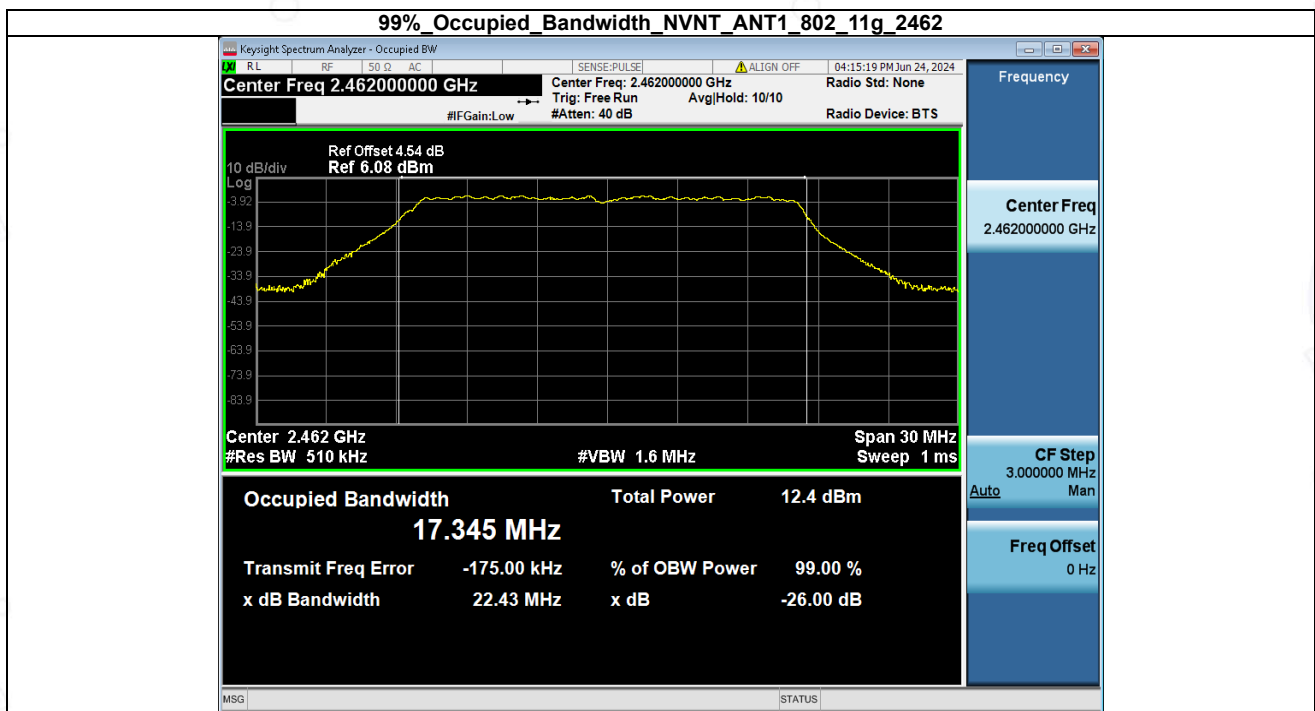
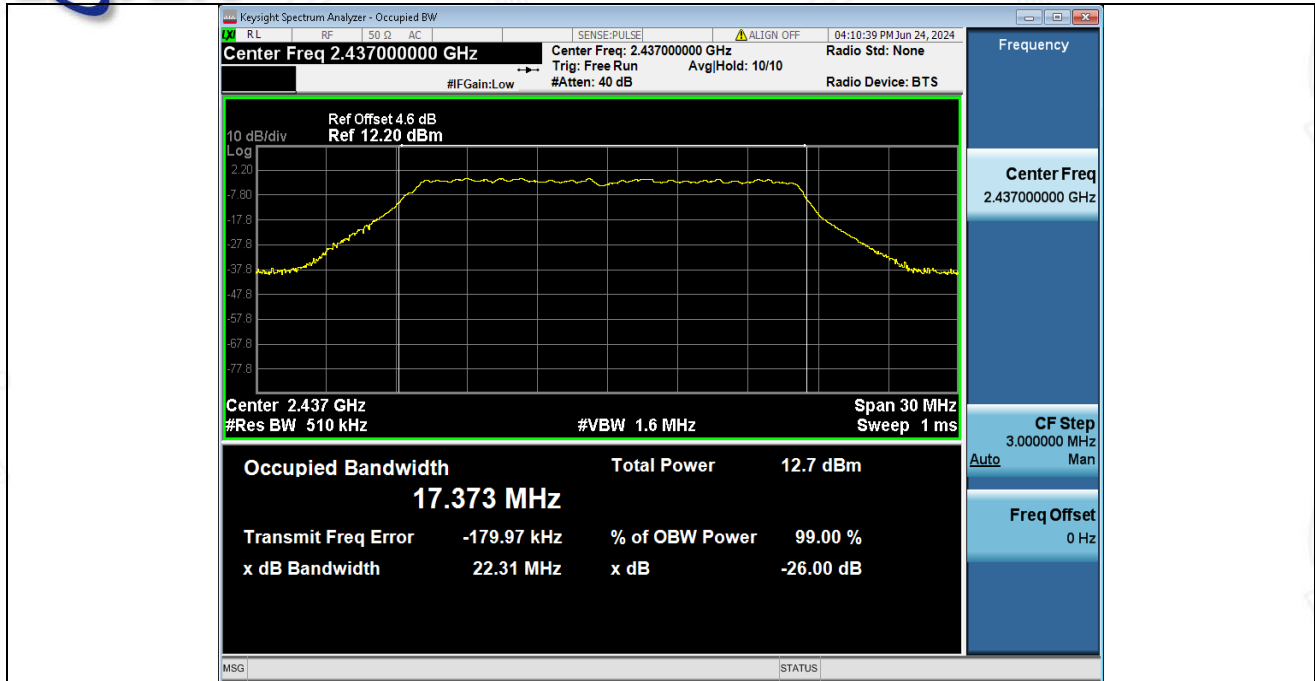
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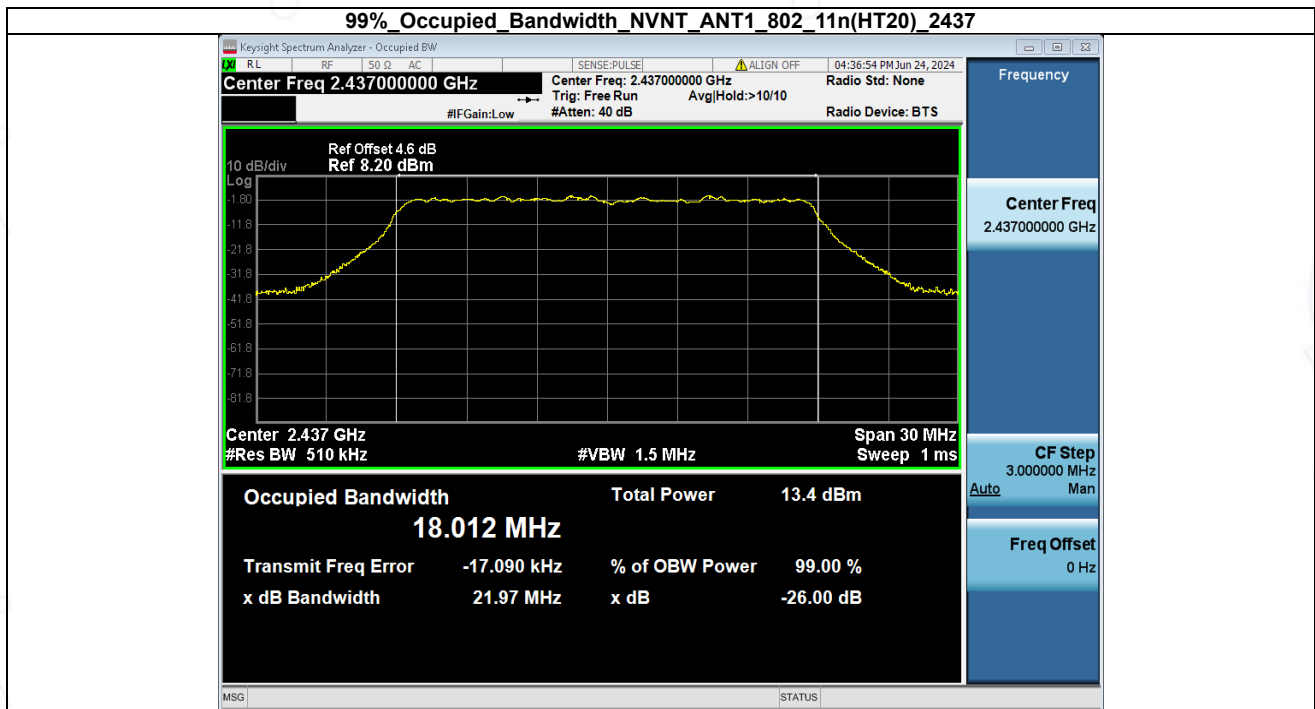
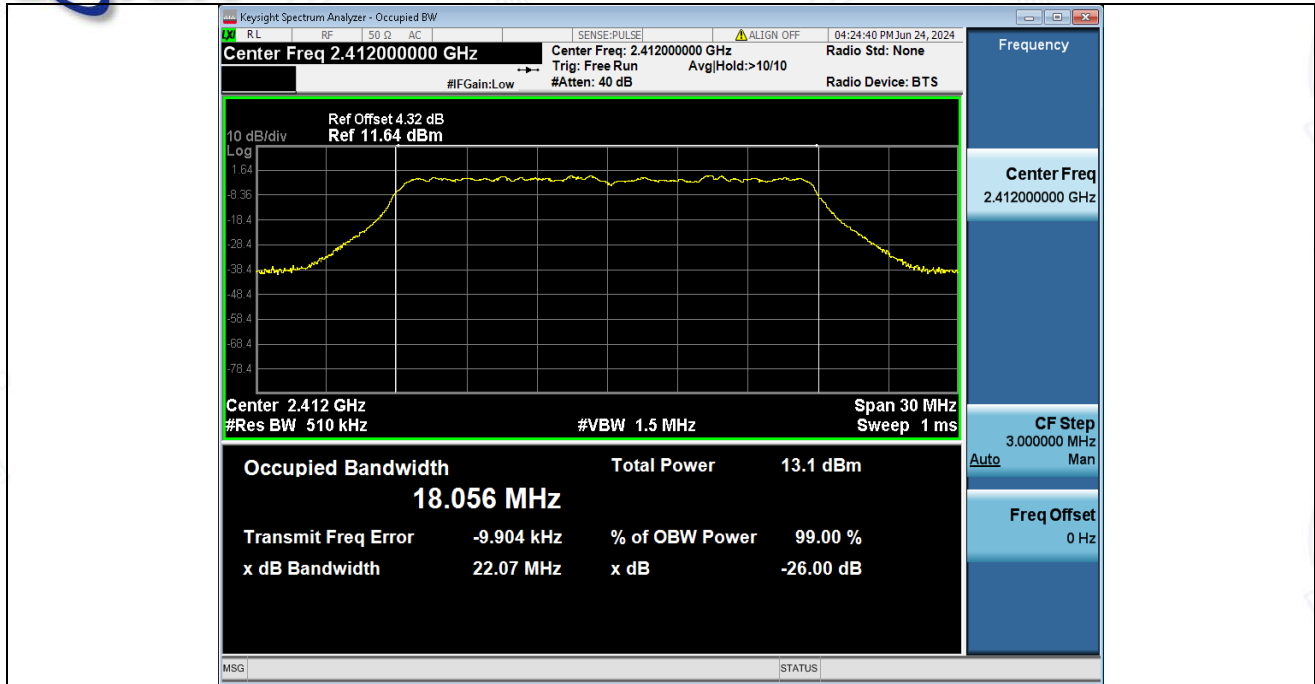
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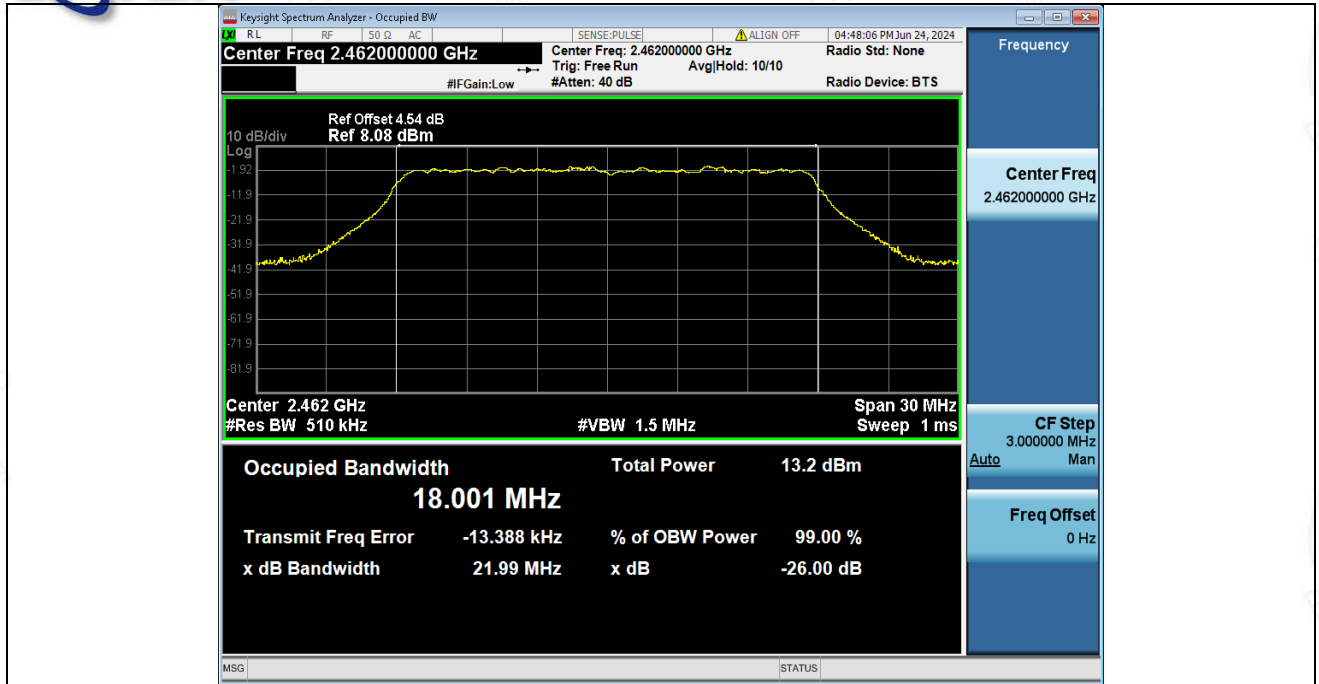
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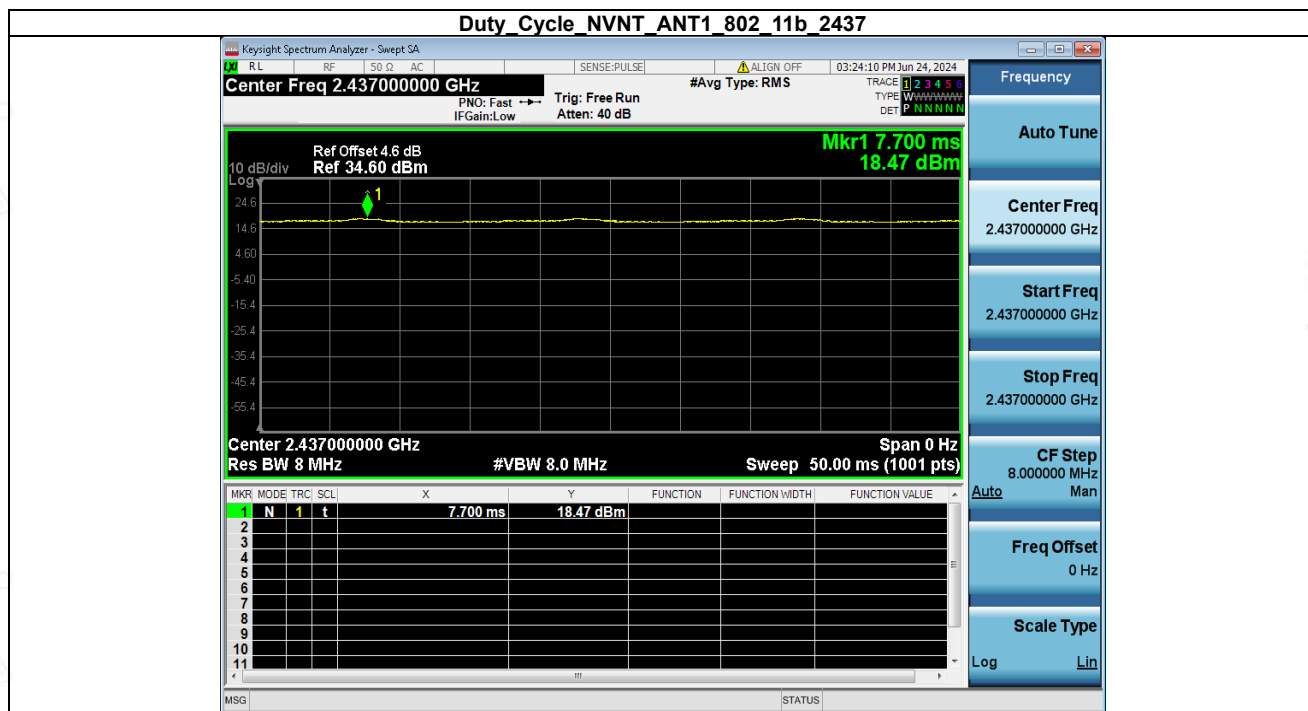
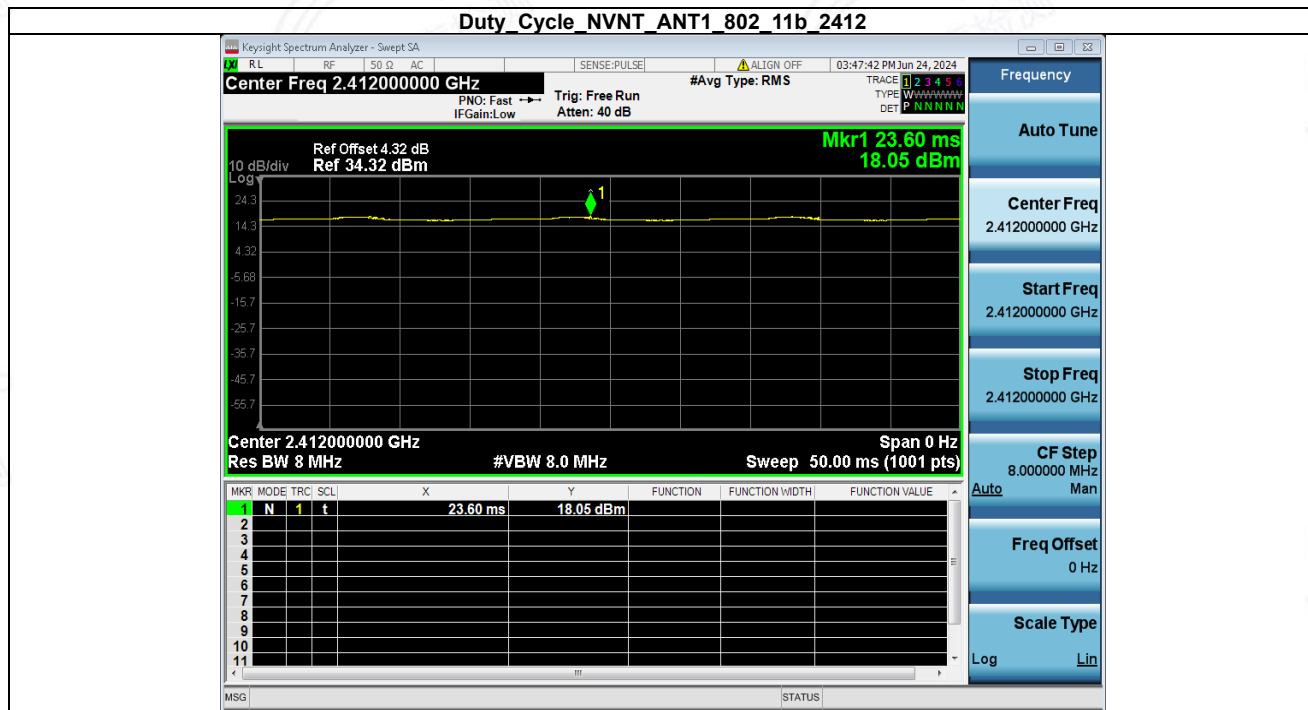
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	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



Duty Cycle NVNT ANT1 802_11b 2462

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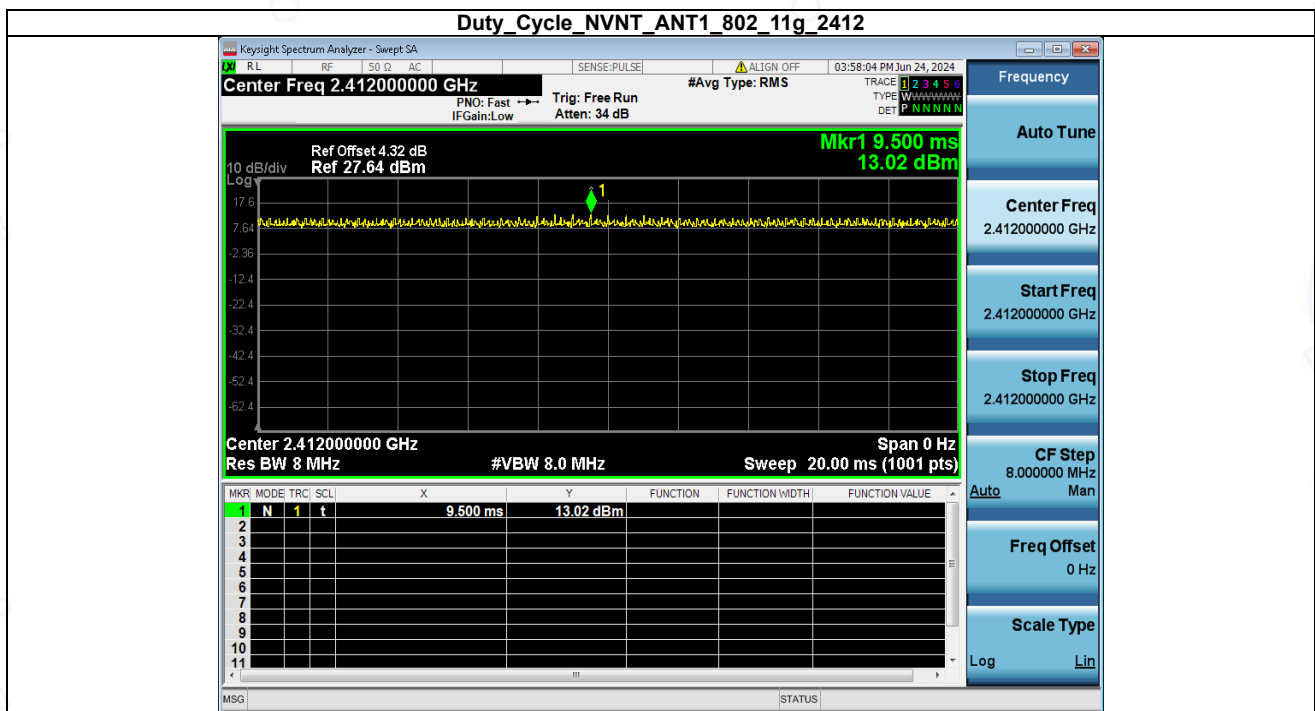
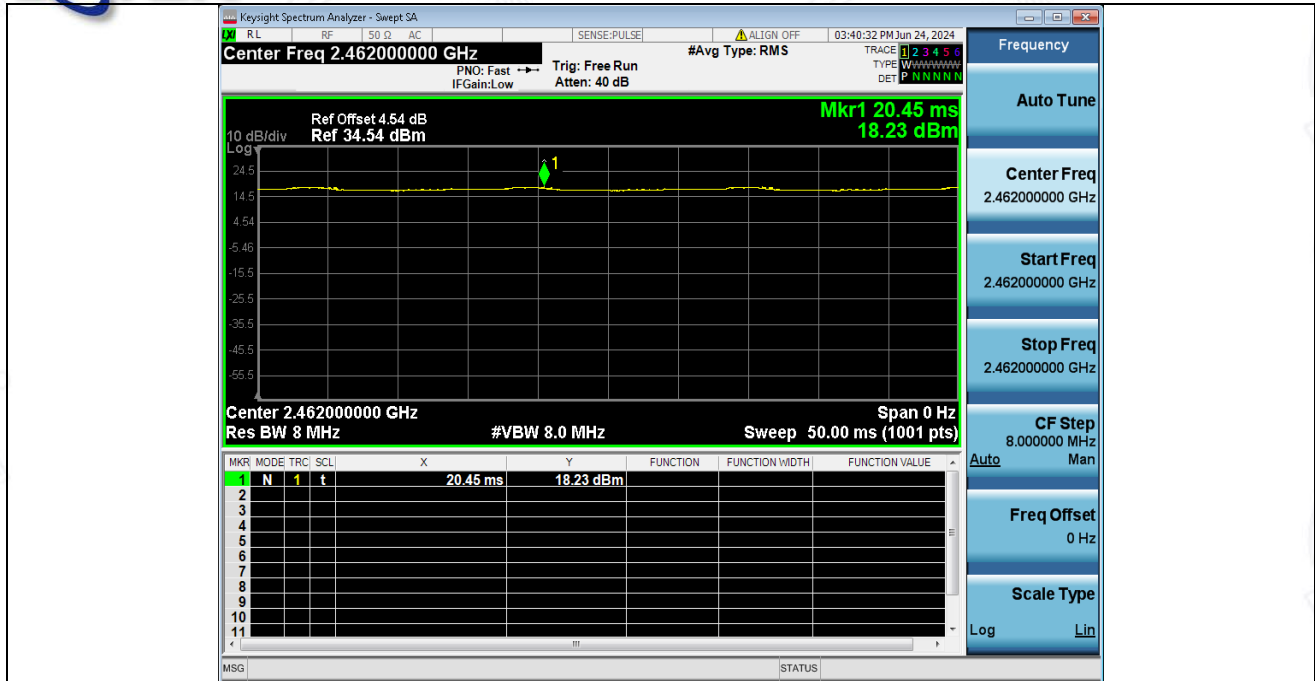
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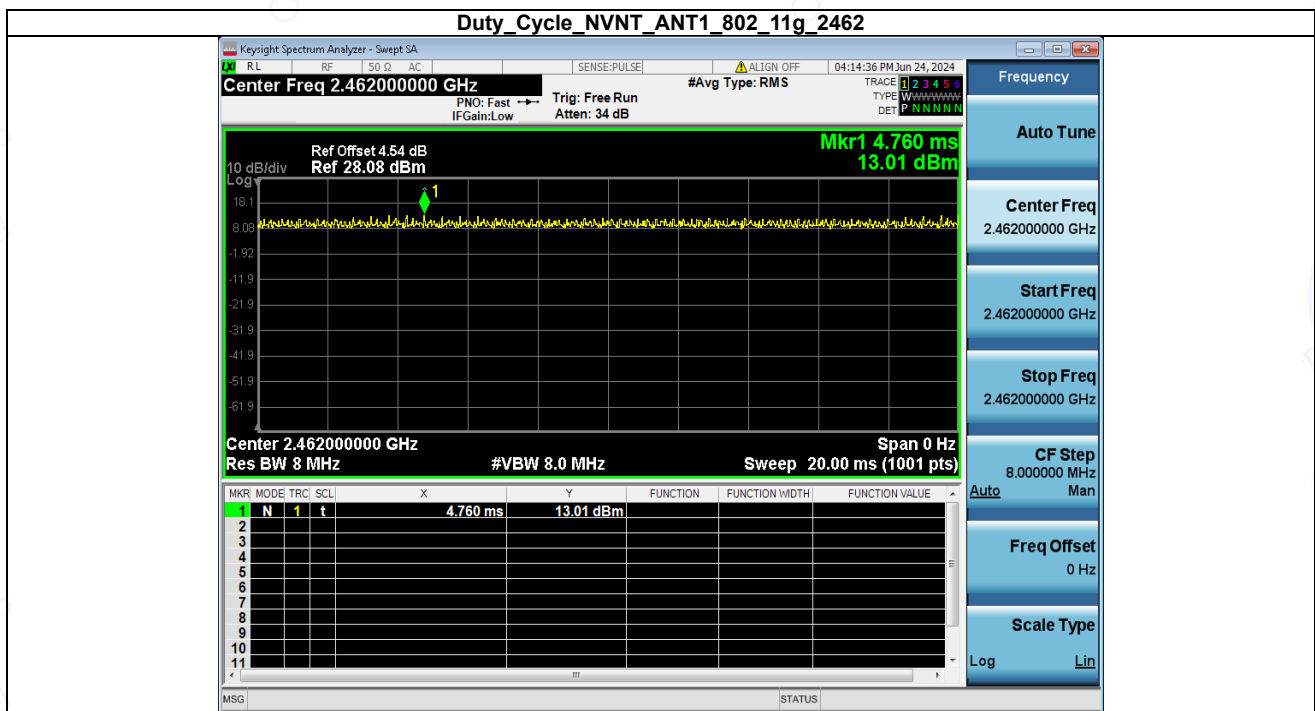
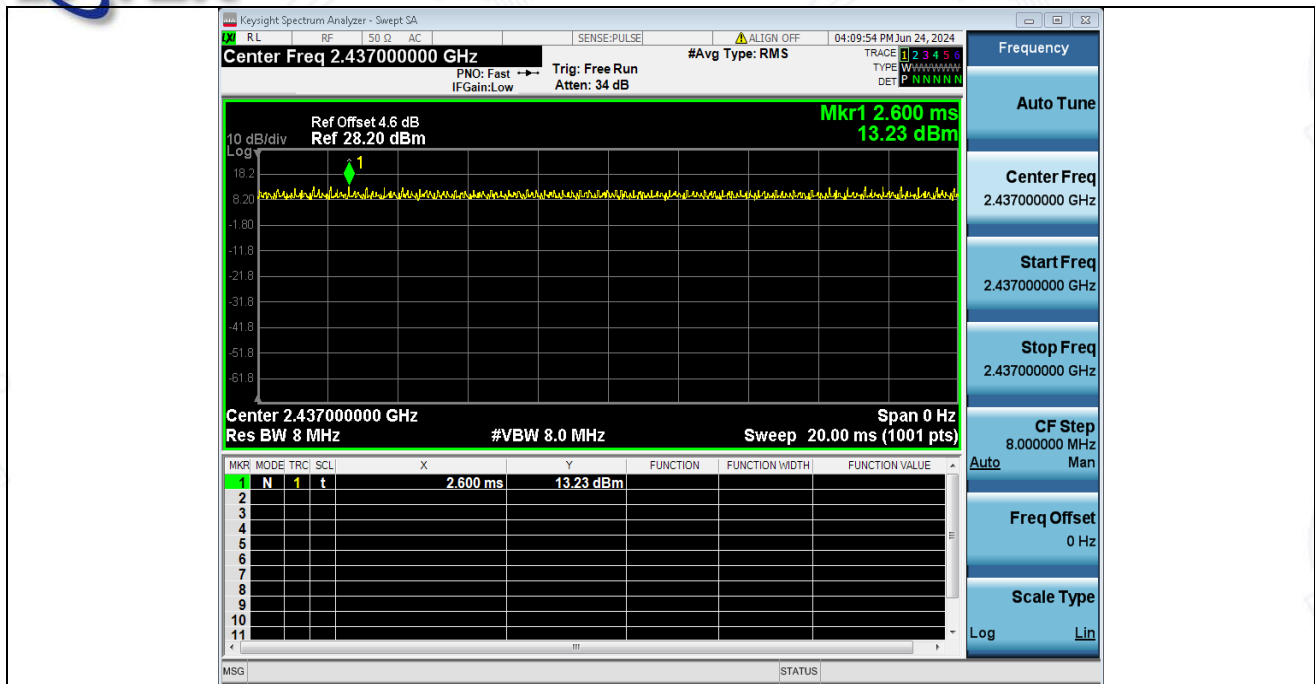
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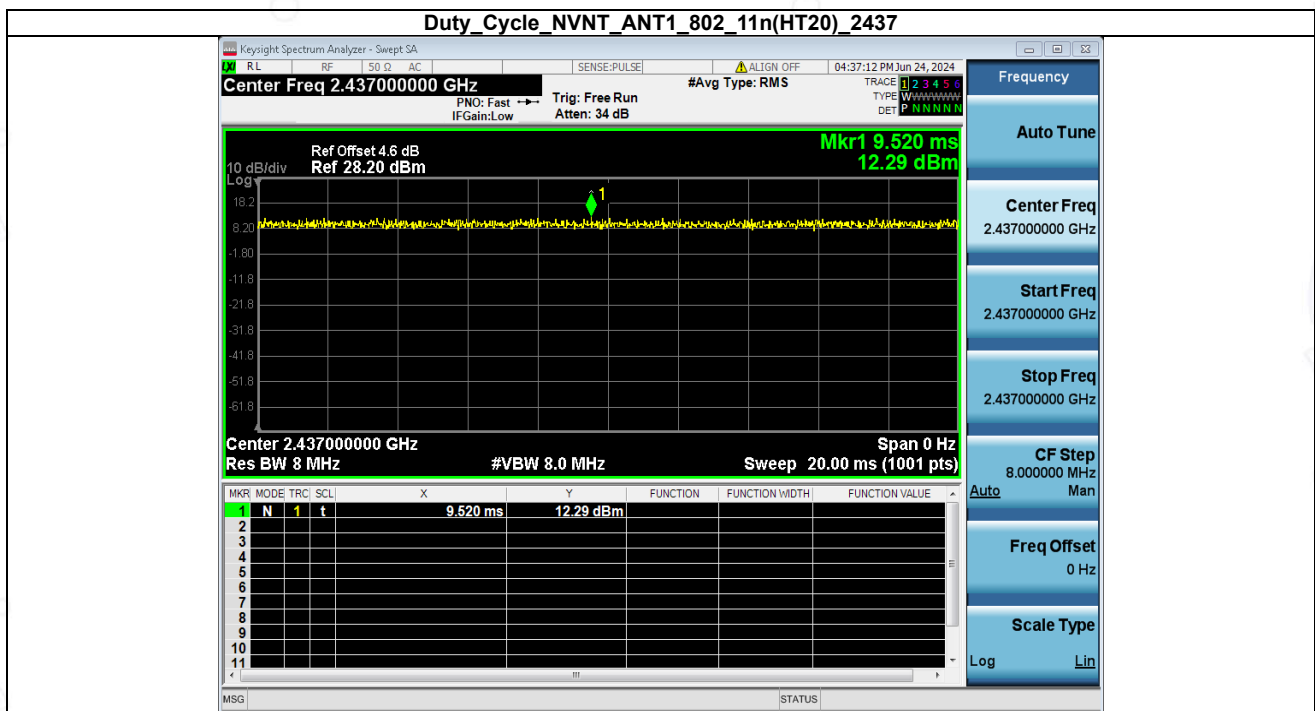
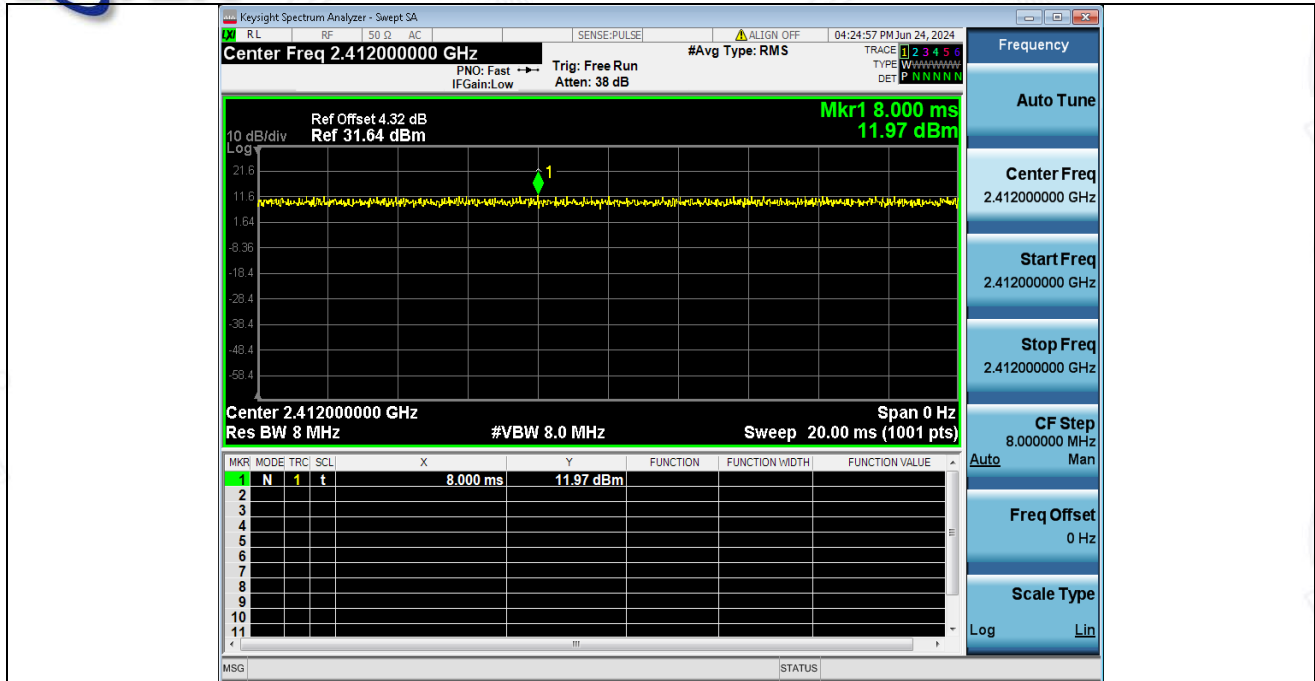
Duty Cycle NVNT_ANT1_802_11g_2437





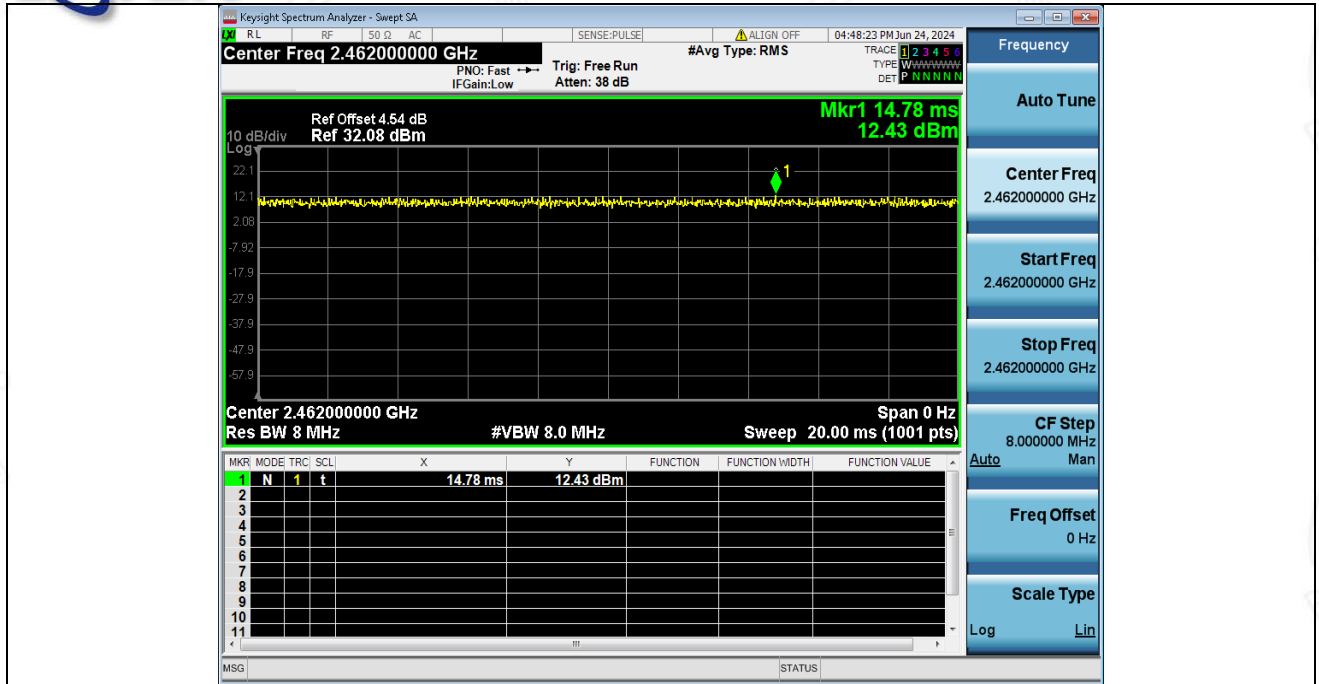
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412





Duty Cycle NVNT_ANT1_802_11n(HT20)_2462





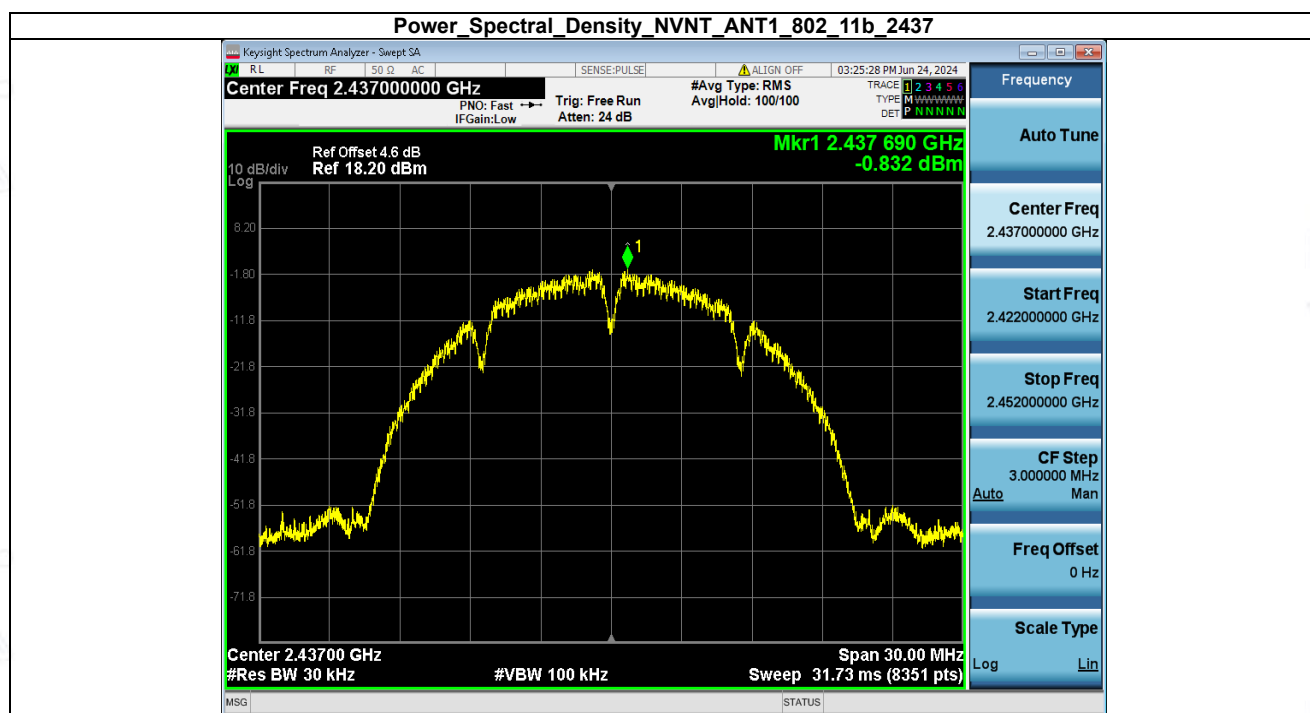
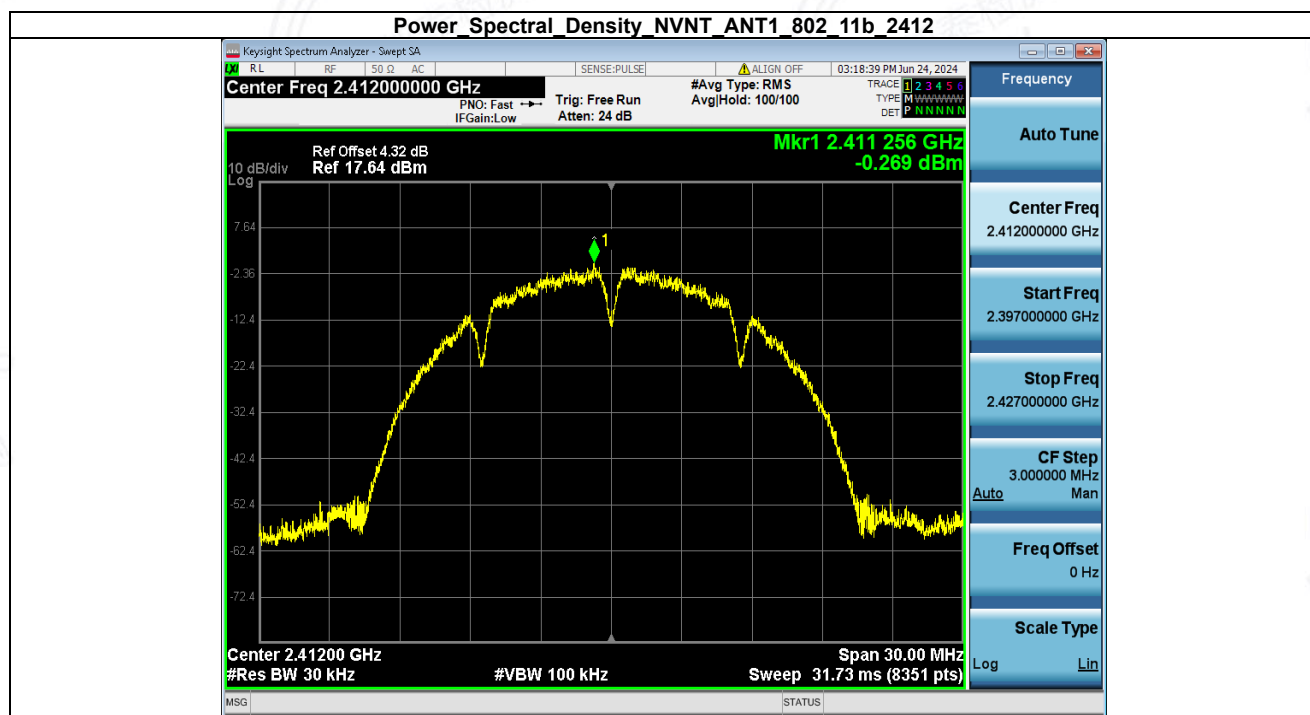
4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	15.97	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	16.30	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	16.24	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	13.38	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	13.55	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	13.40	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	13.40	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	13.71	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	13.62	30	Pass



5. Power Spectral Density

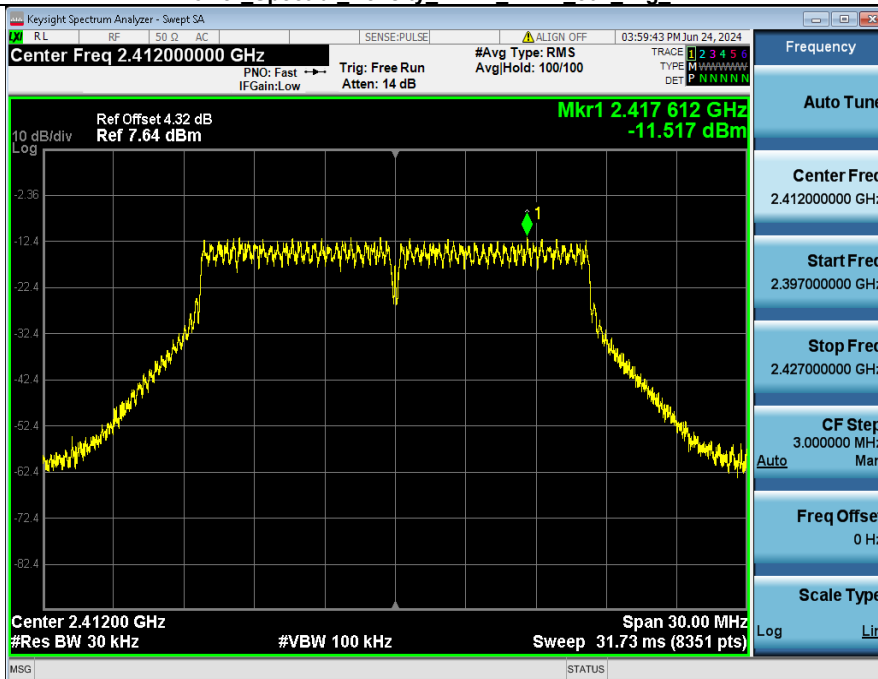
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-0.27	-10.00	-10.27	8	Pass
NVNT	ANT1	802.11b	2437.00	-0.83	-10.00	-10.83	8	Pass
NVNT	ANT1	802.11b	2462.00	-1.10	-10.00	-11.10	8	Pass
NVNT	ANT1	802.11g	2412.00	-11.52	-10.00	-21.52	8	Pass
NVNT	ANT1	802.11g	2437.00	-11.17	-10.00	-21.17	8	Pass
NVNT	ANT1	802.11g	2462.00	-11.32	-10.00	-21.32	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-11.24	-10.00	-21.24	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-10.92	-10.00	-20.92	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-11.02	-10.00	-21.02	8	Pass



Power Spectral Density NVNT_ANT1_802_11b_2462

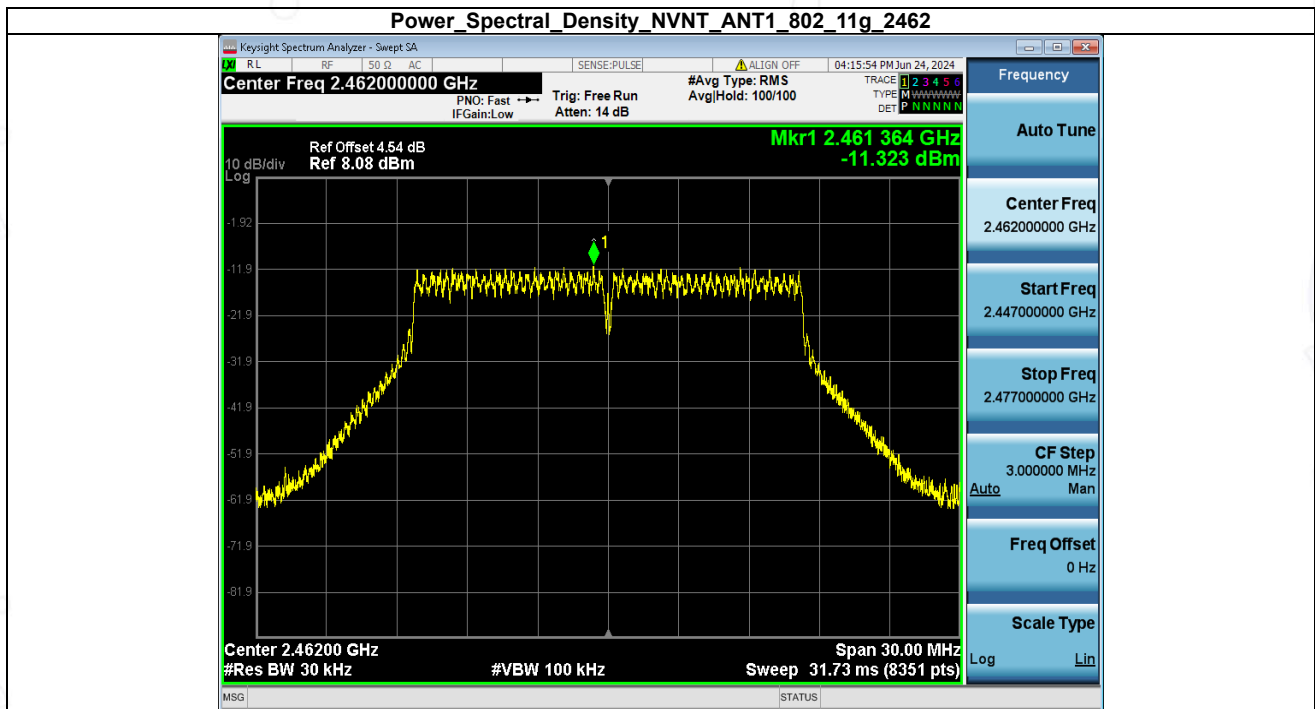
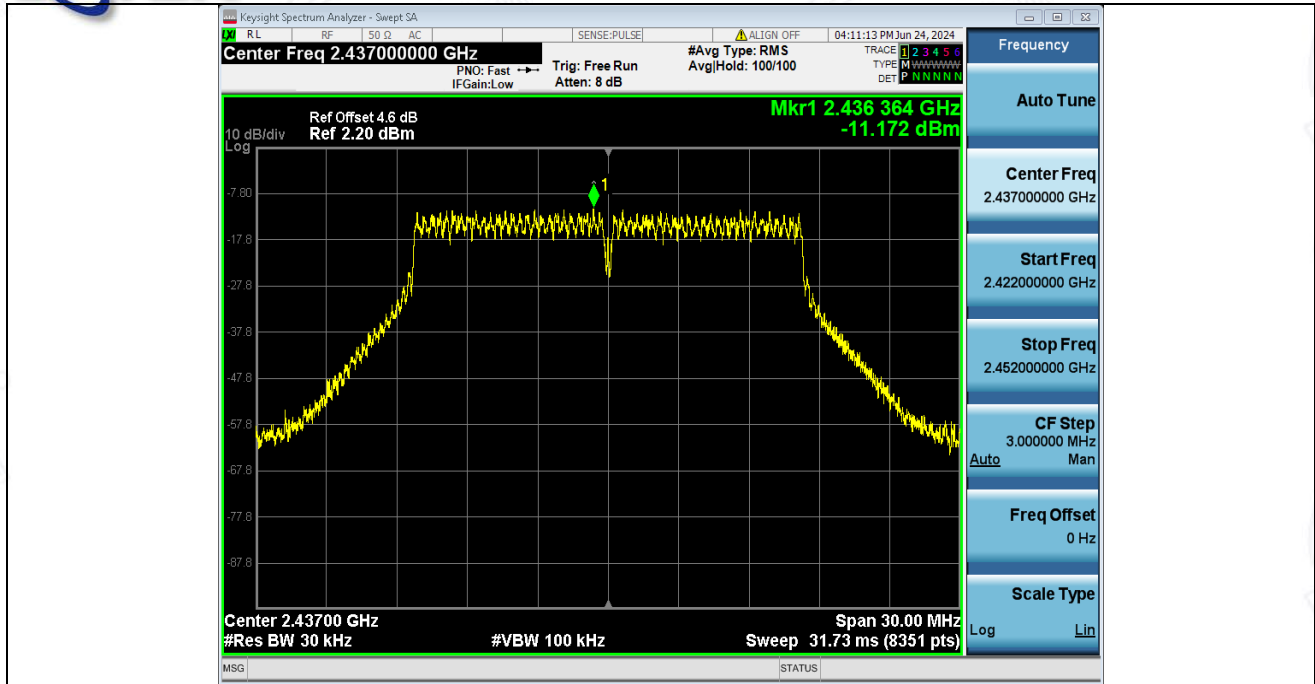


Power Spectral Density NVNT_ANT1_802_11g_2412



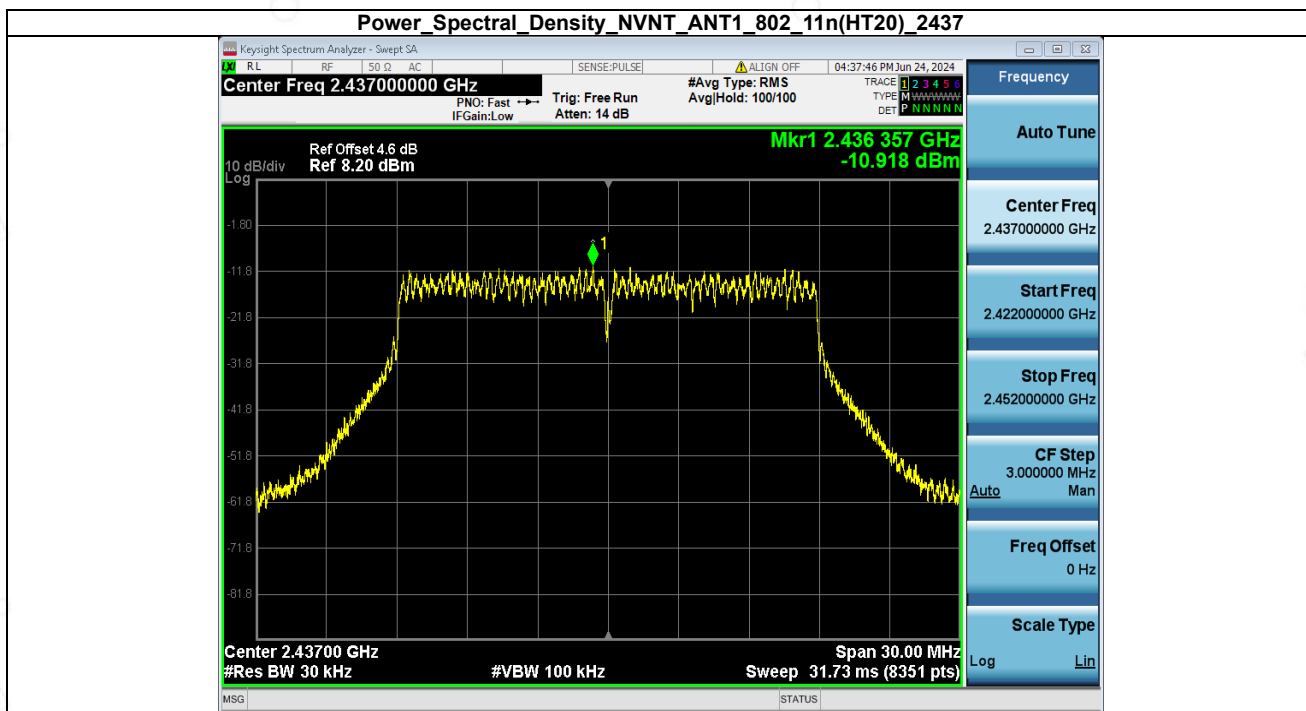
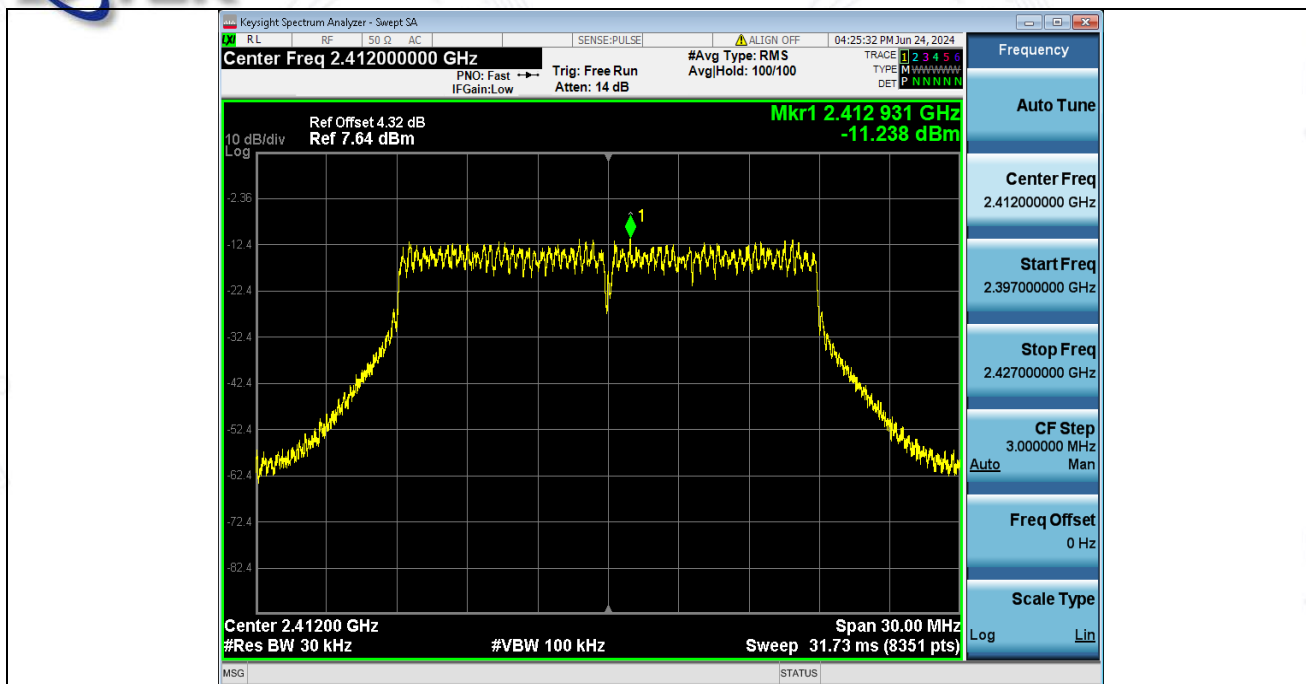
Power Spectral Density NVNT_ANT1_802_11g_2437





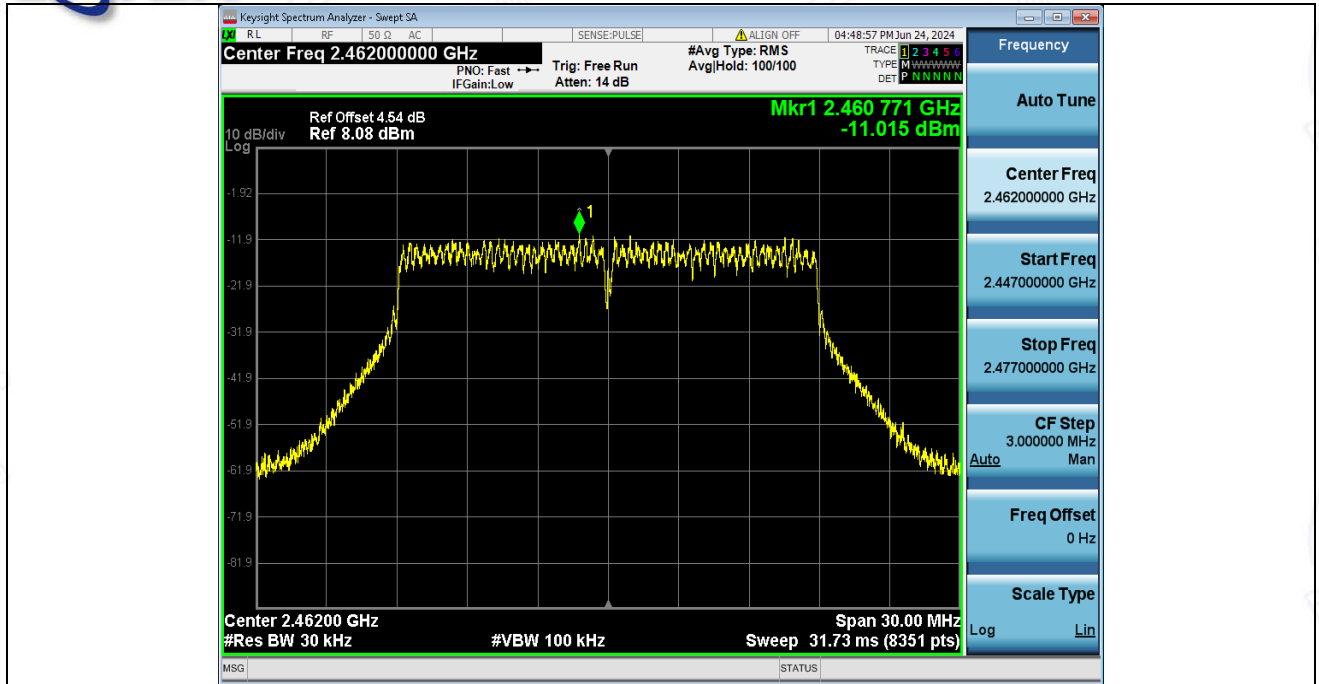
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412





Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462

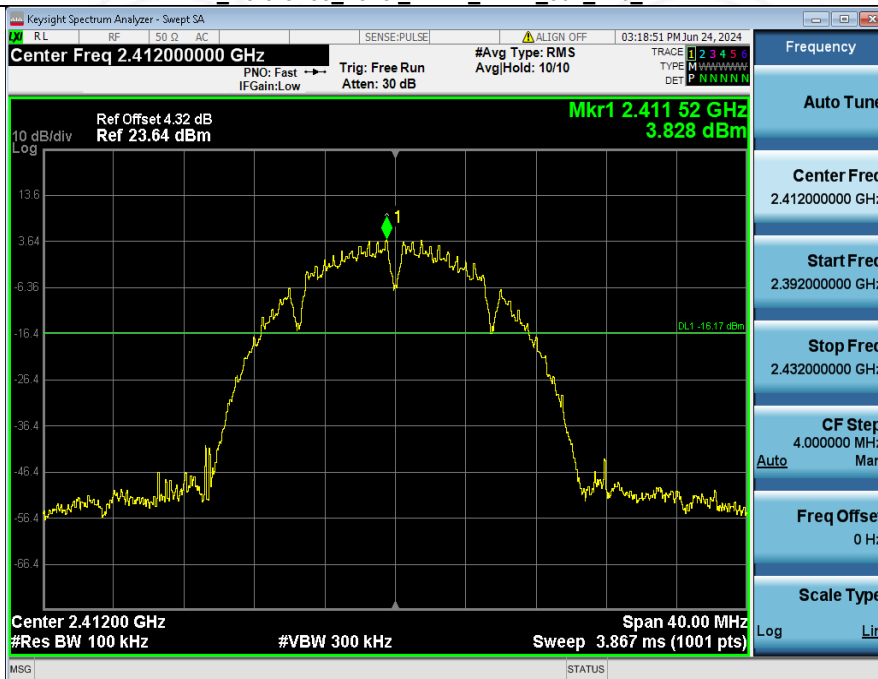




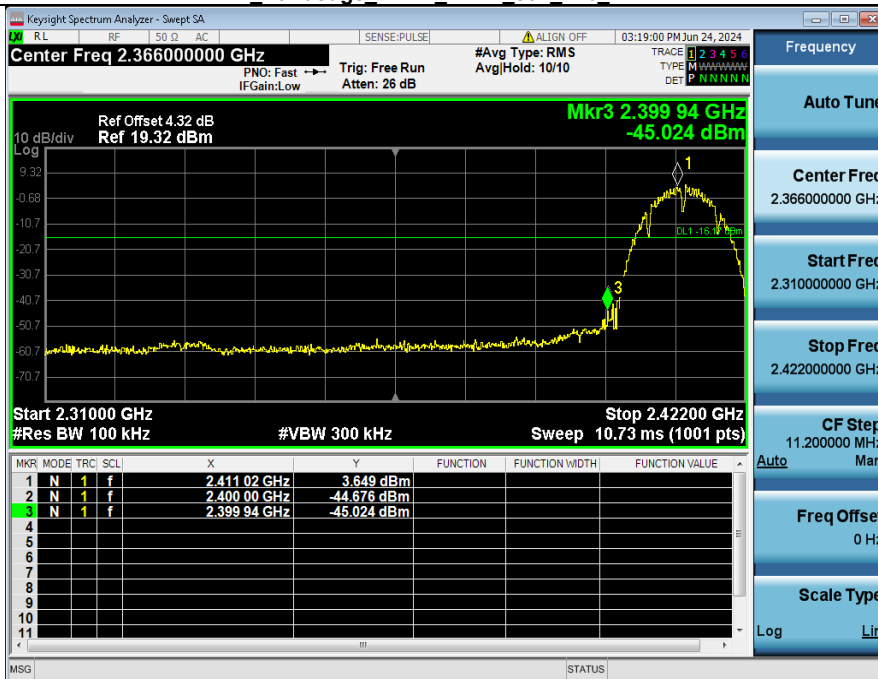
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-45.024	-16.172	Pass
NVNT	ANT1	802.11b	2462.00	2488.432	-55.523	-16.058	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-44.859	-28.582	Pass
NVNT	ANT1	802.11g	2462.00	2485.168	-61.460	-28.471	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-46.677	-27.643	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-58.888	-27.650	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412

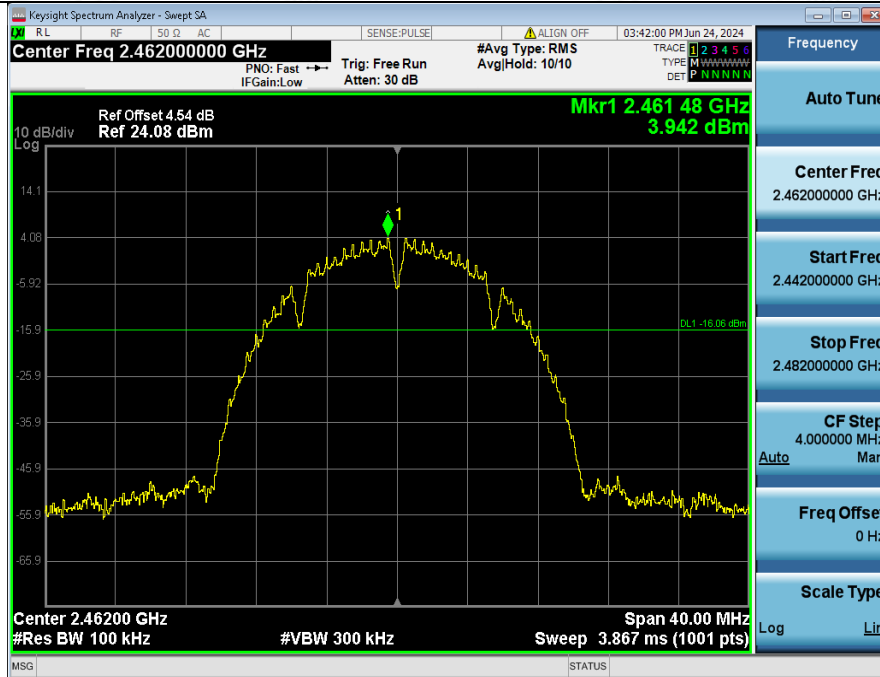


2 Bandedge_NVNT_ANT1_802_11b_2412

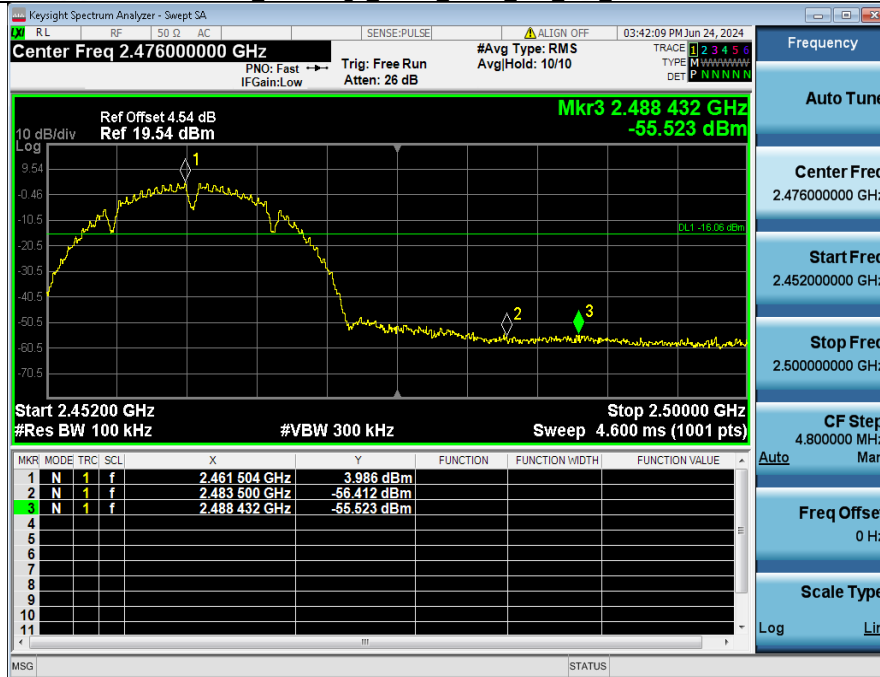


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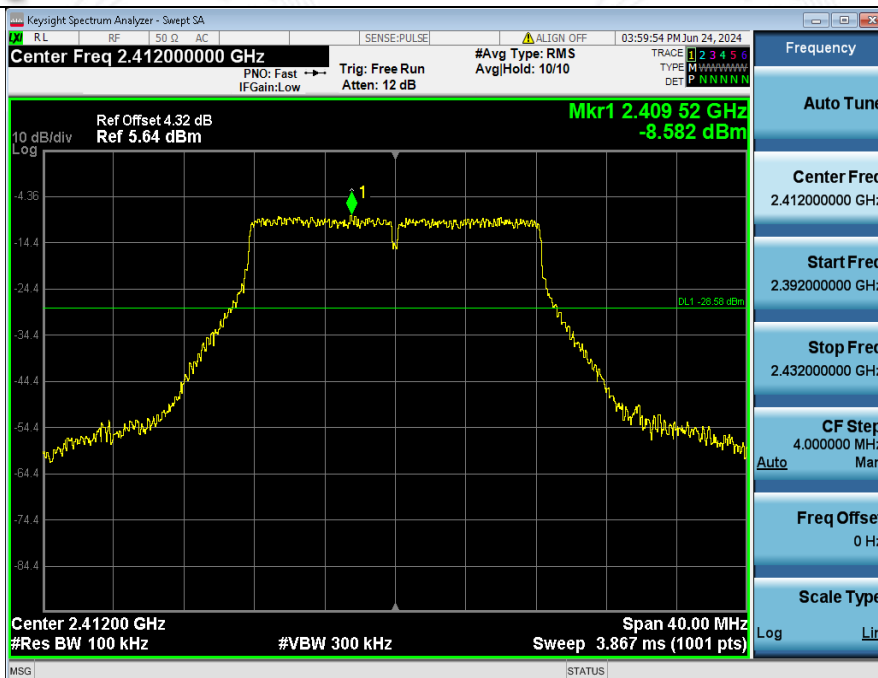


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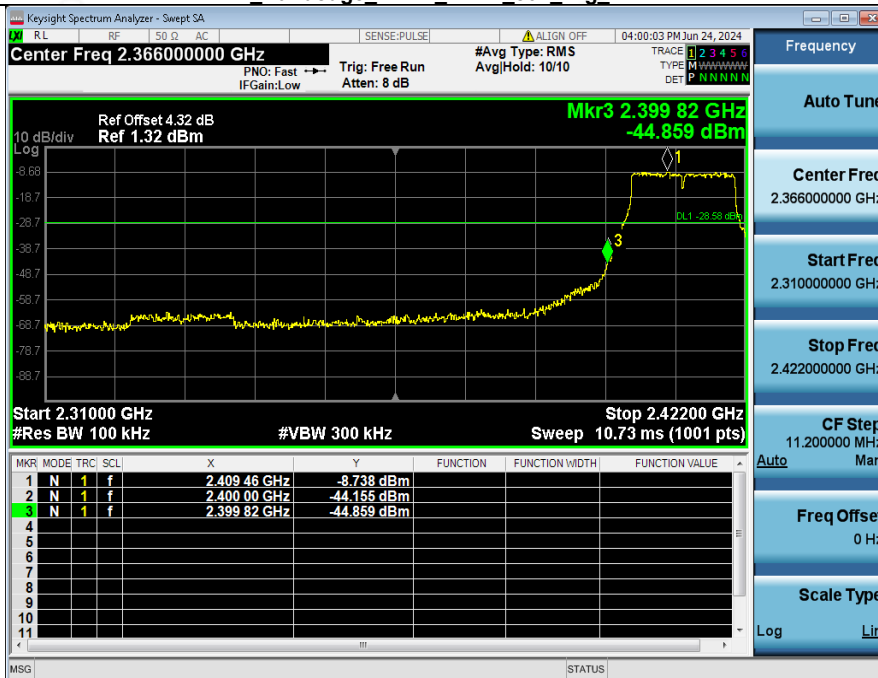


1 Reference_Level_NVNT_ANT1_802_11g_2412



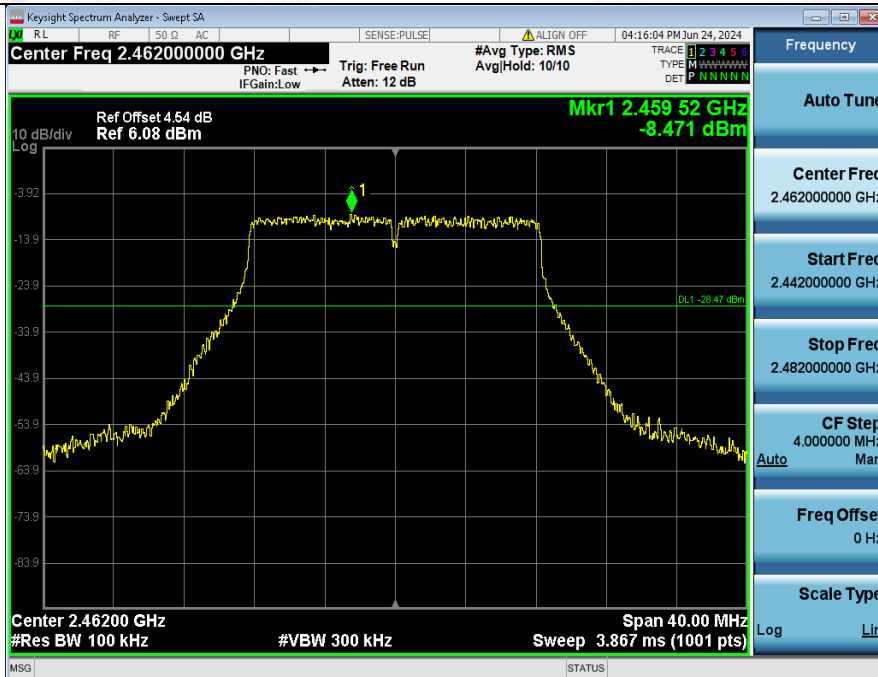


2_Bandedge_NVNT_ANT1_802_11g_2412

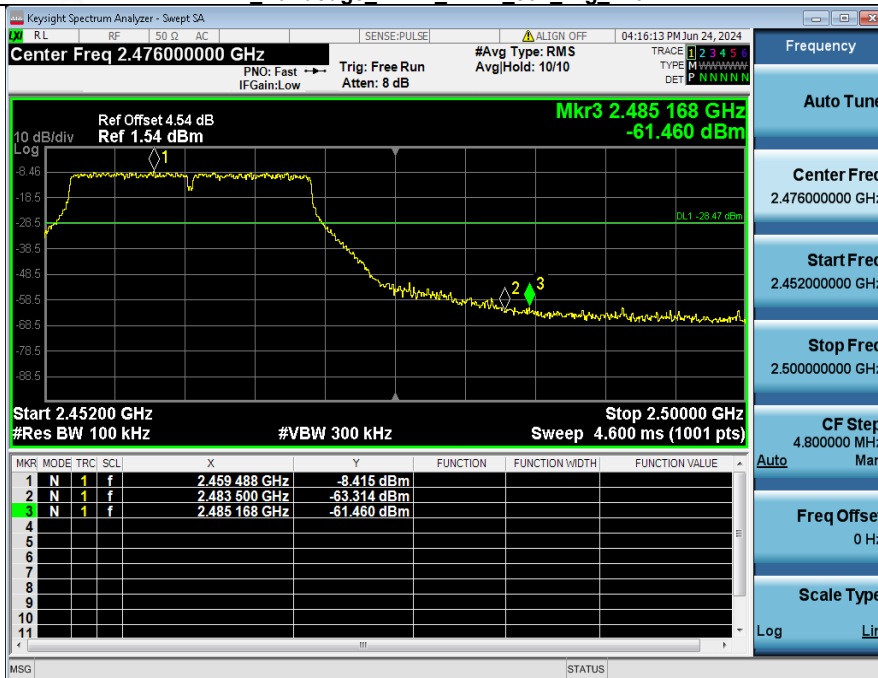


1 Reference Level_NVNT_ANT1_802_11g_2462



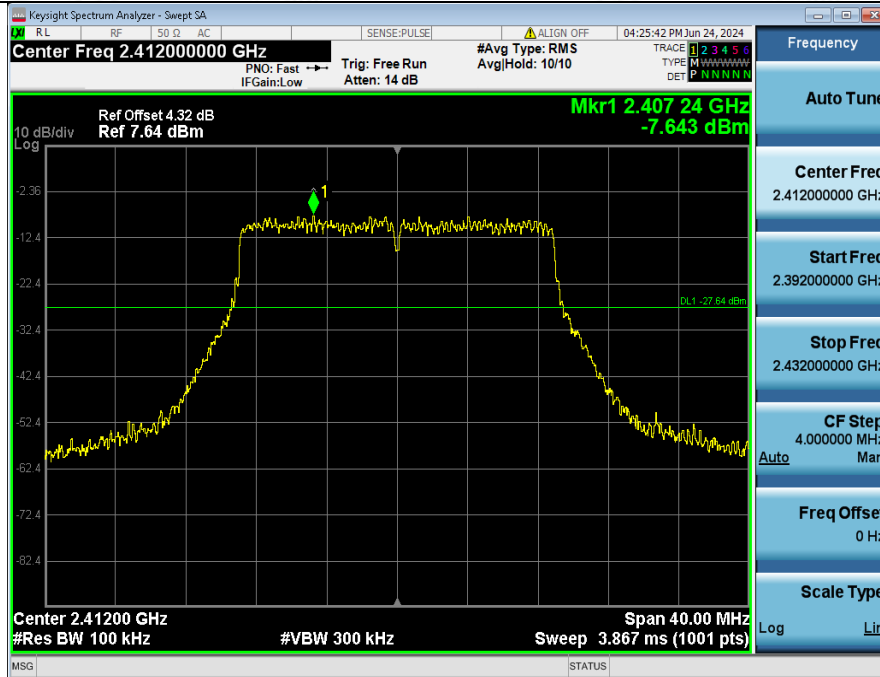


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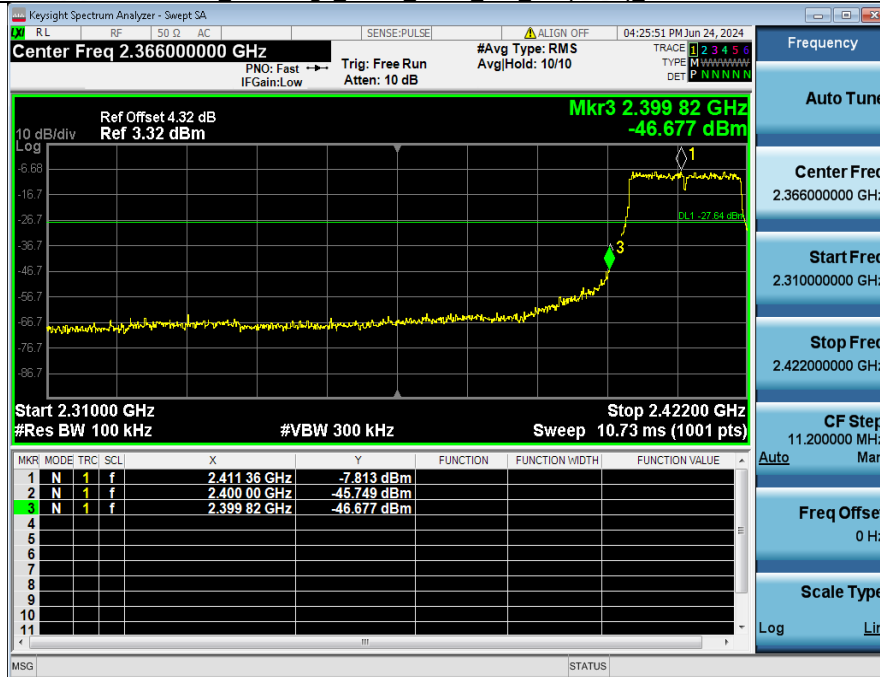


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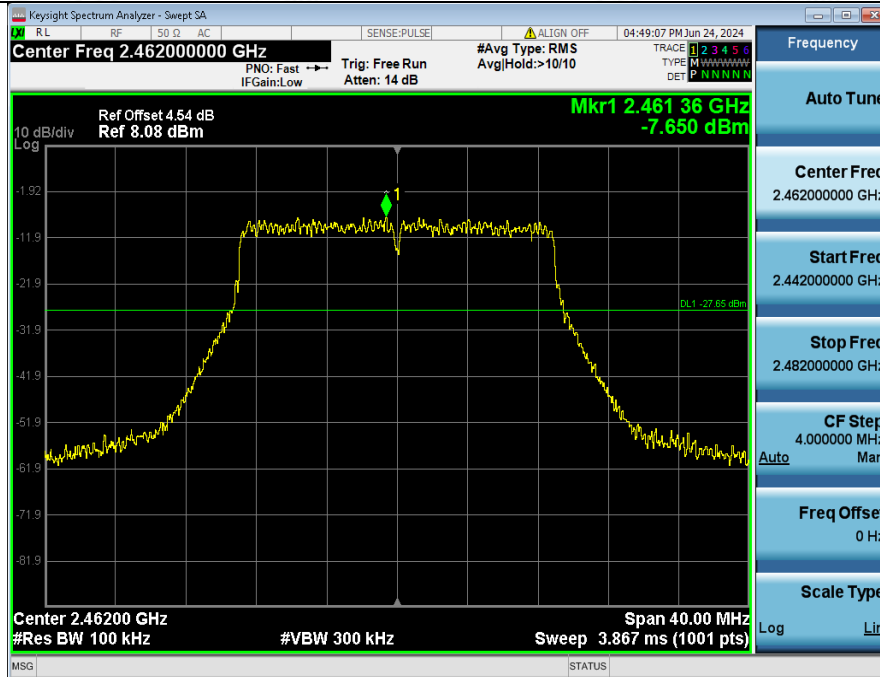


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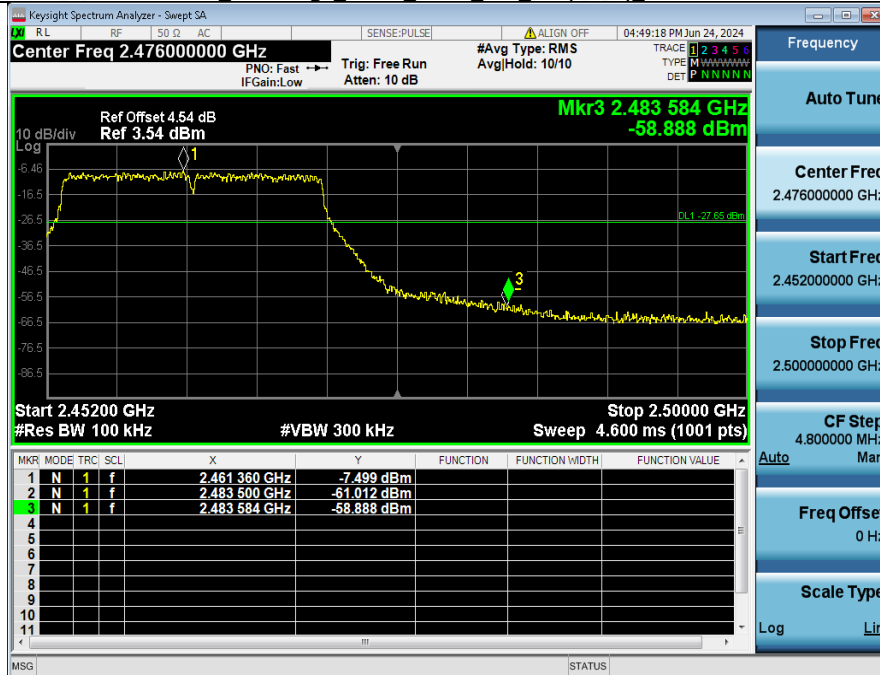


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462





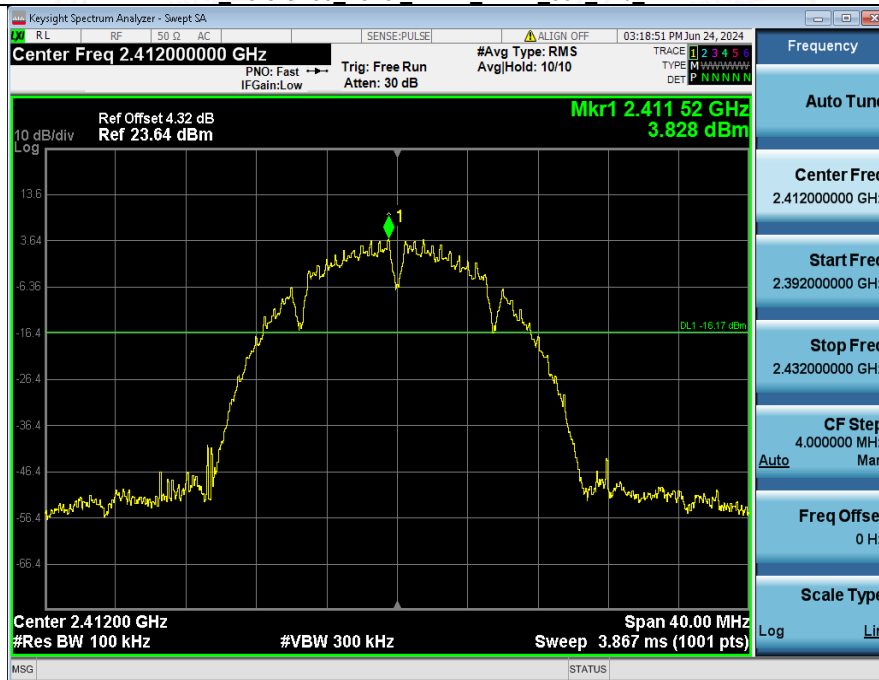
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



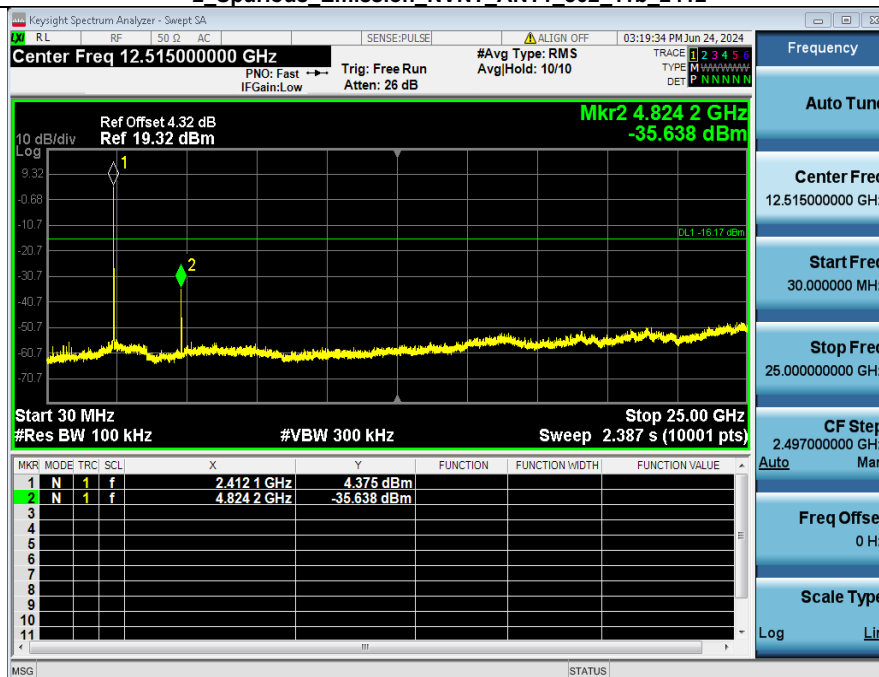
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	4824.240	-35.638	-16.172	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	-36.204	-16.022	Pass
NVNT	ANT1	802.11b	2462.00	4924.120	-37.175	-16.058	Pass
NVNT	ANT1	802.11g	2412.00	4824.240	-56.300	-28.582	Pass
NVNT	ANT1	802.11g	2437.00	4874.180	-57.235	-28.506	Pass
NVNT	ANT1	802.11g	2462.00	4924.120	-56.644	-28.471	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	4824.240	-56.129	-27.643	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	4874.180	-56.744	-27.491	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	4924.120	-56.703	-27.650	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412

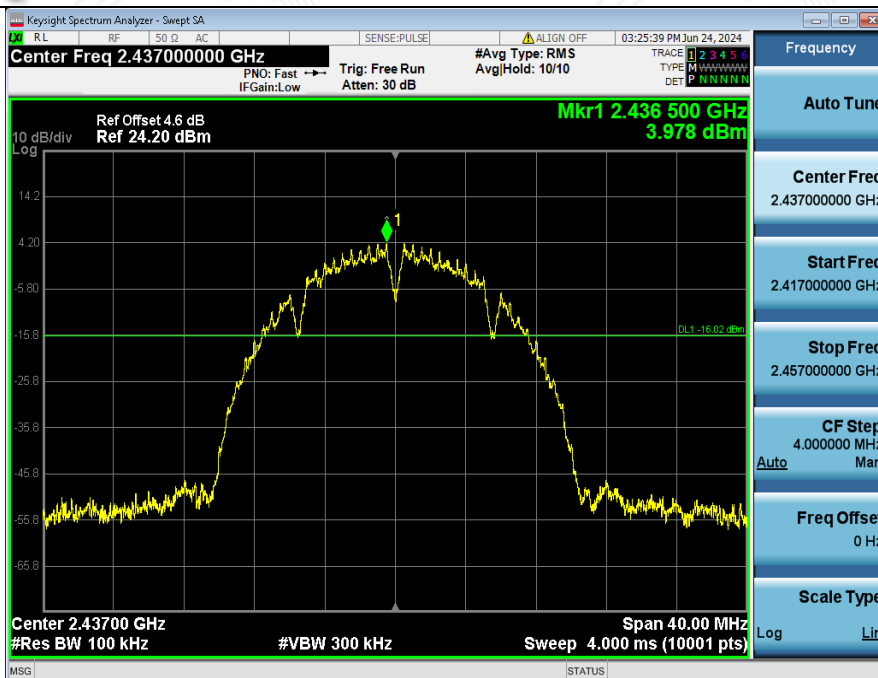


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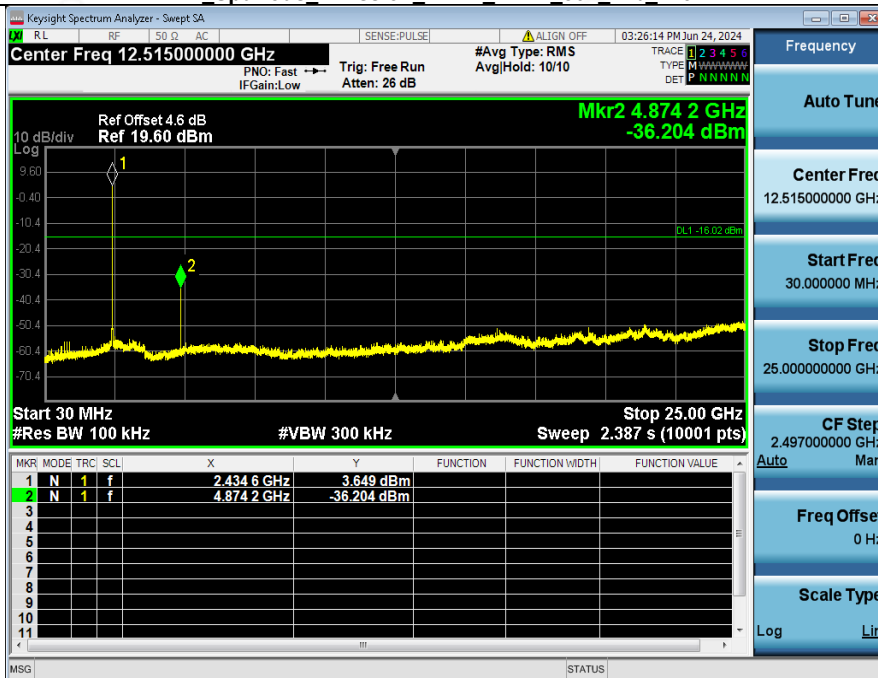


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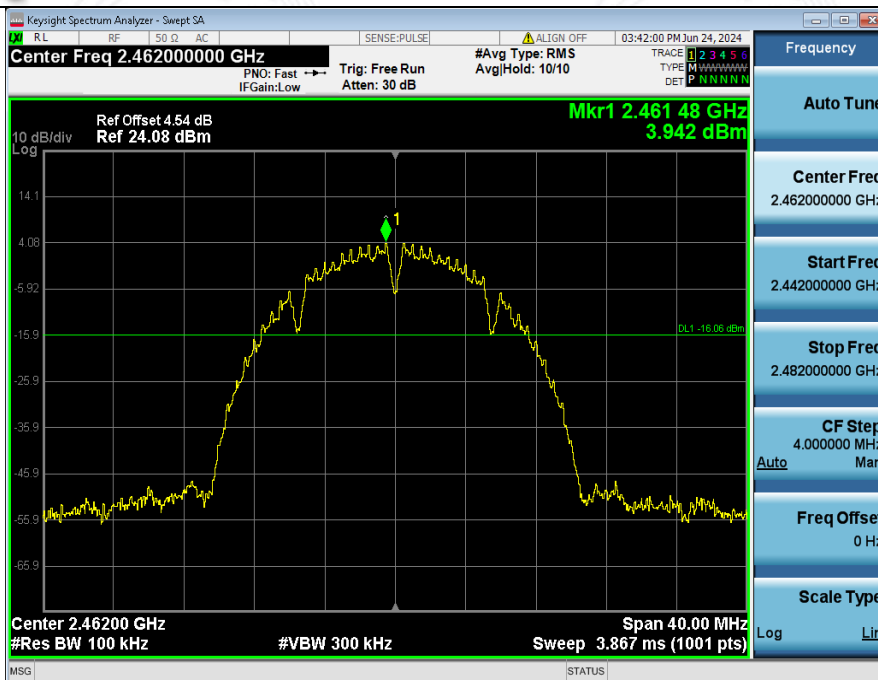


2 Spurious Emission NVNT_ANT1_802_11b_2437

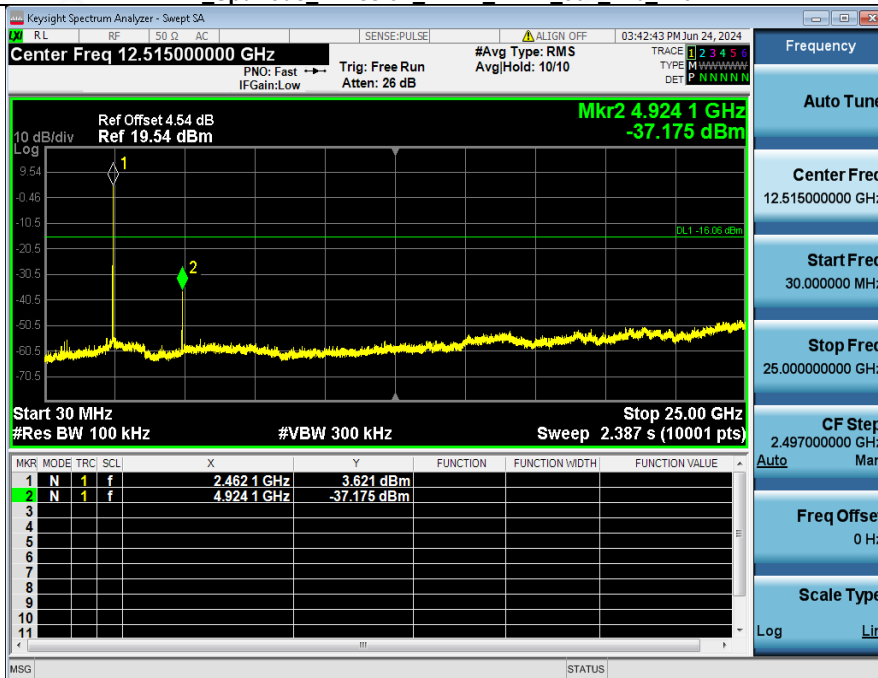


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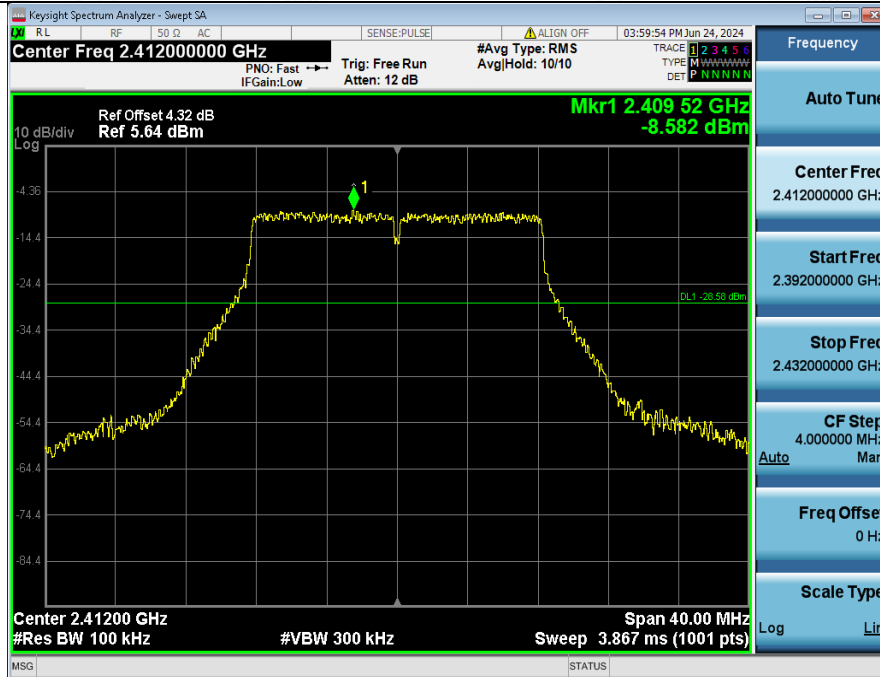


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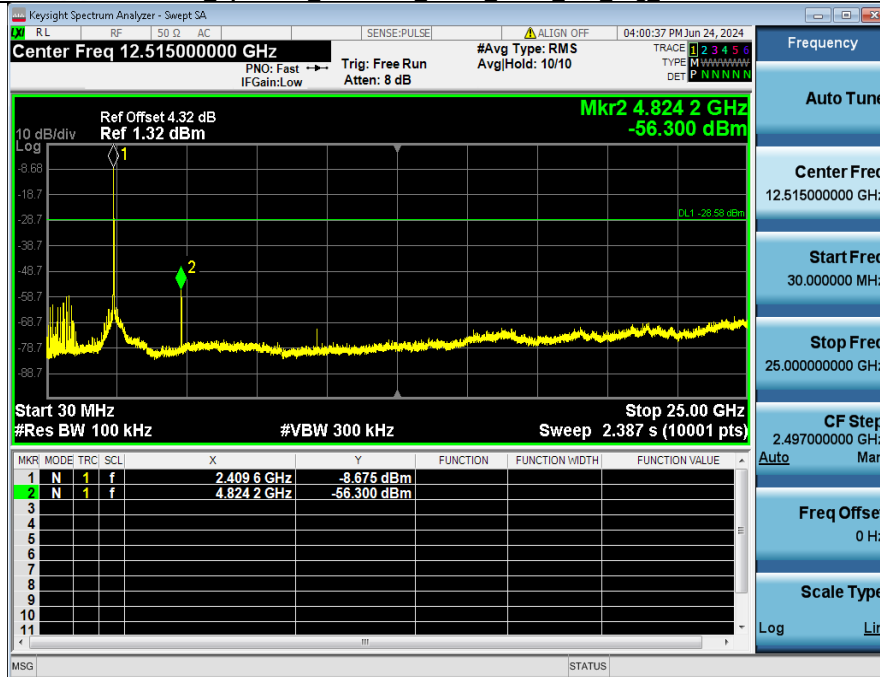


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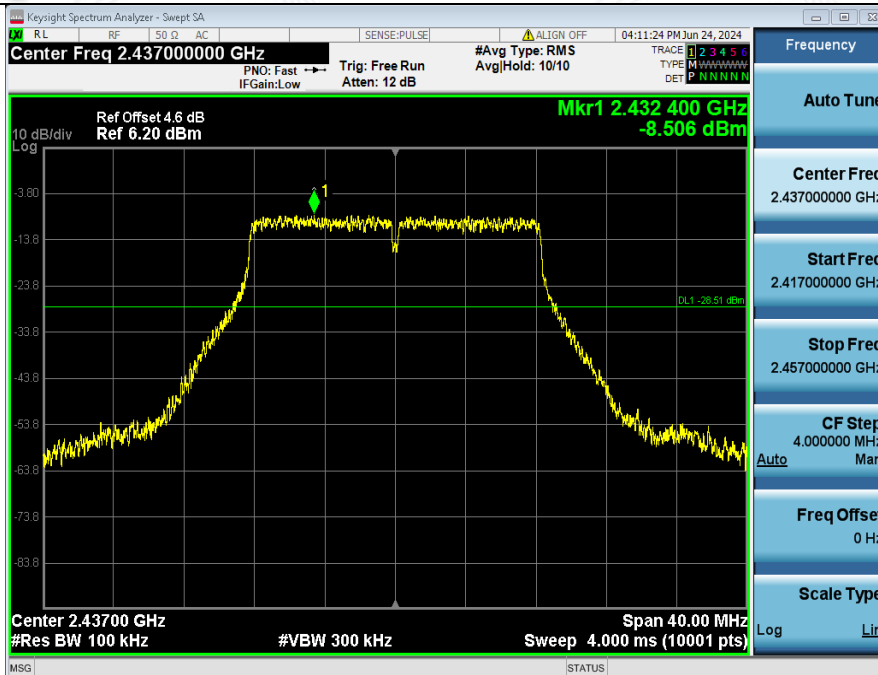


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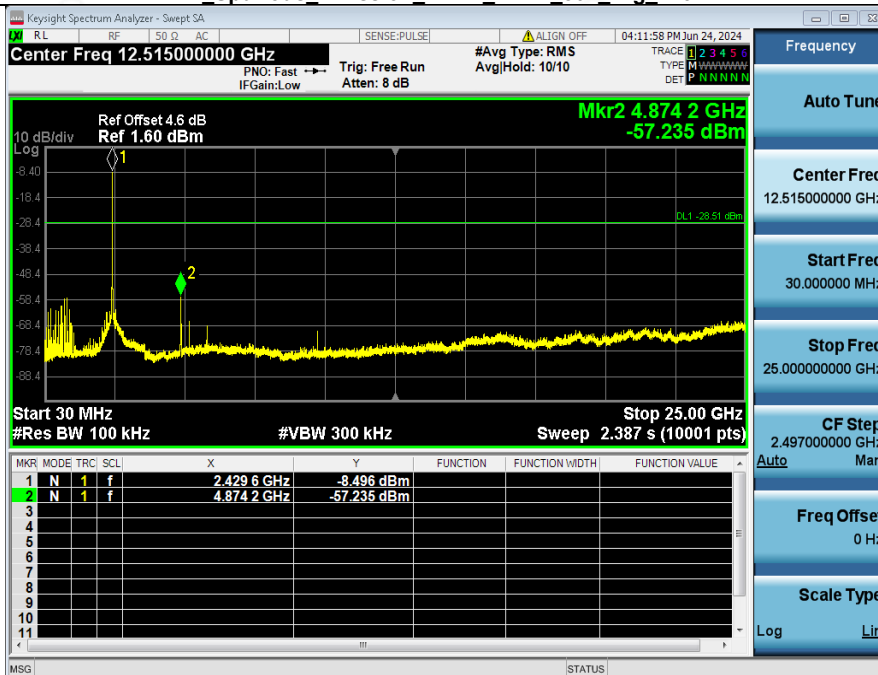


1 Reference Level NVNT_ANT1_802_11g_2437



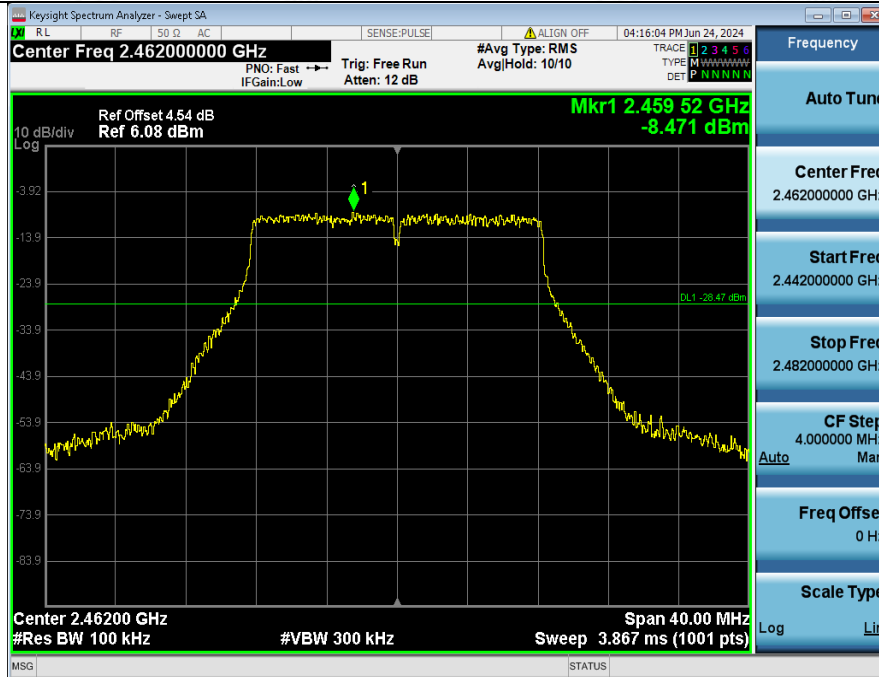


2 Spurious Emission NVNT_ANT1_802_11g_2437

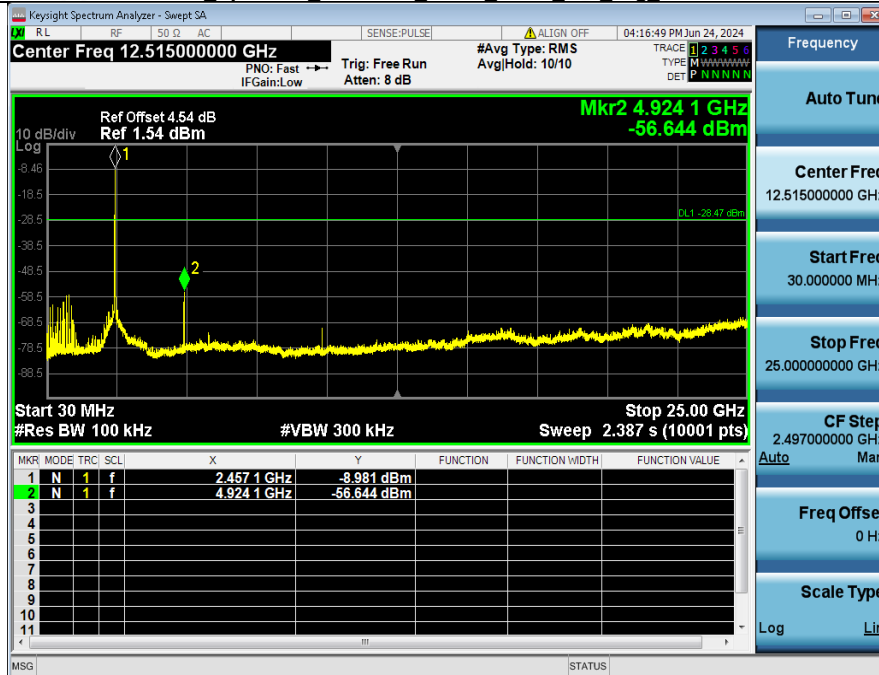


1 Reference Level NVNT_ANT1_802_11g_2462



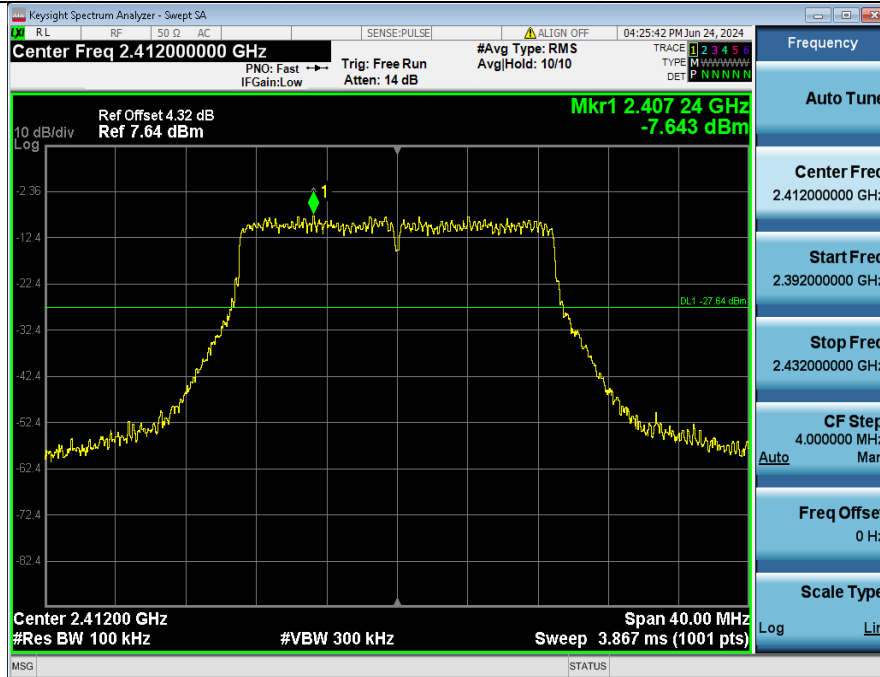


2 Spurious Emission NVNT_ANT1_802_11g_2462

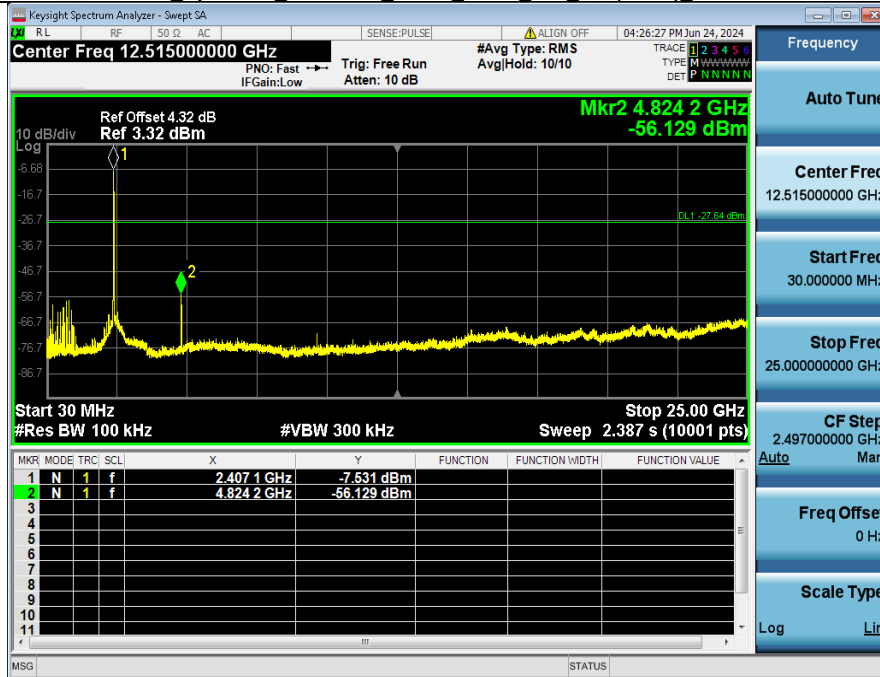


1 Reference Level NVNT_ANT1_802_11n(HT20) 2412



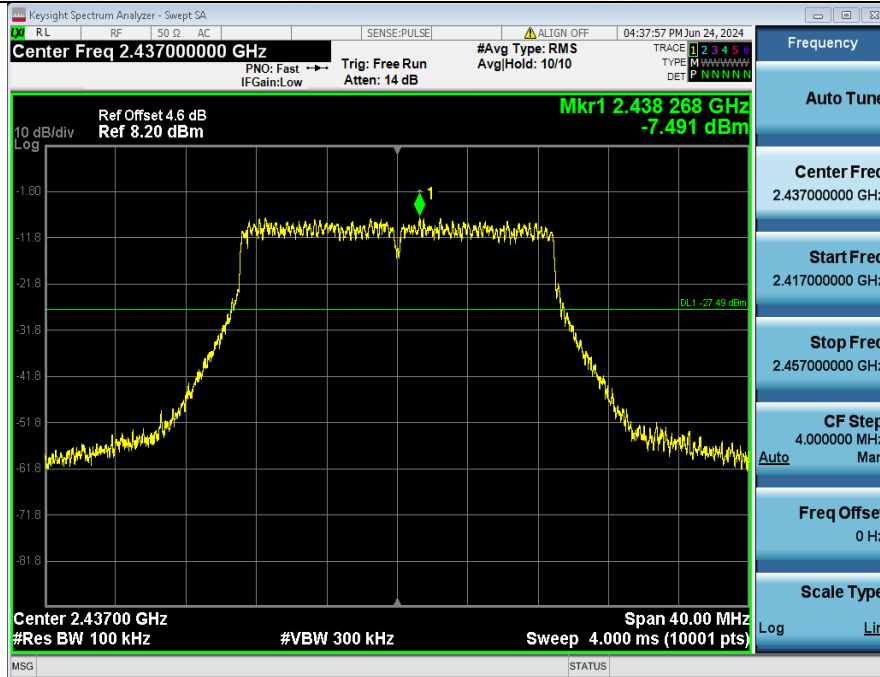


2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412

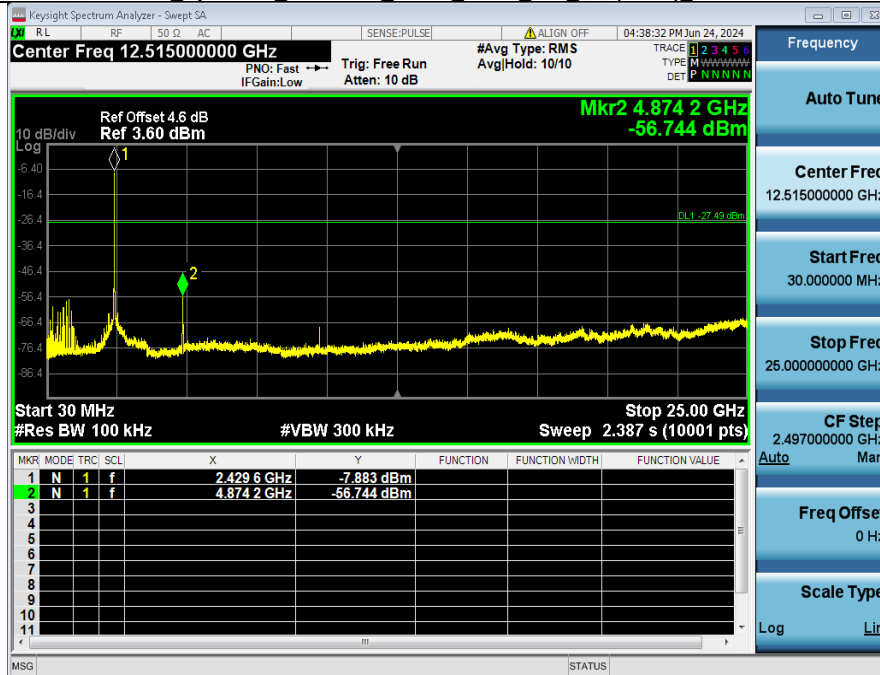


1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



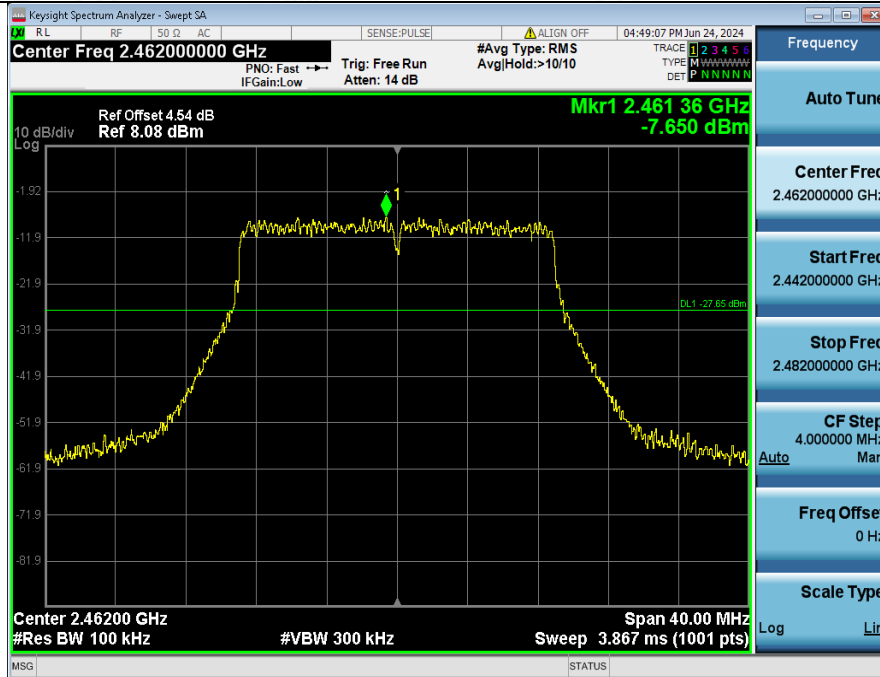


2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462





2. Spurious Emission NVNT_ANT1_802_11n(HT20)_2462

