

Appendix

2.4G_WIFI Test Data

for BTEK240603003AE



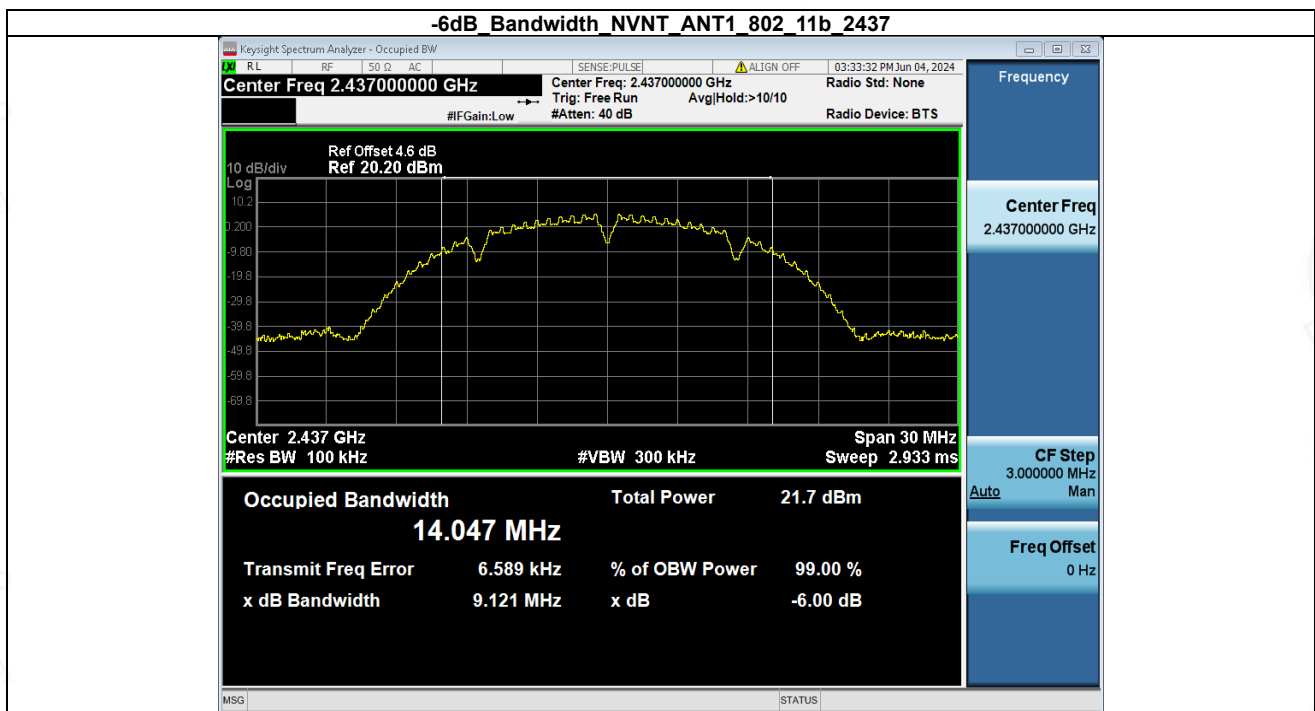
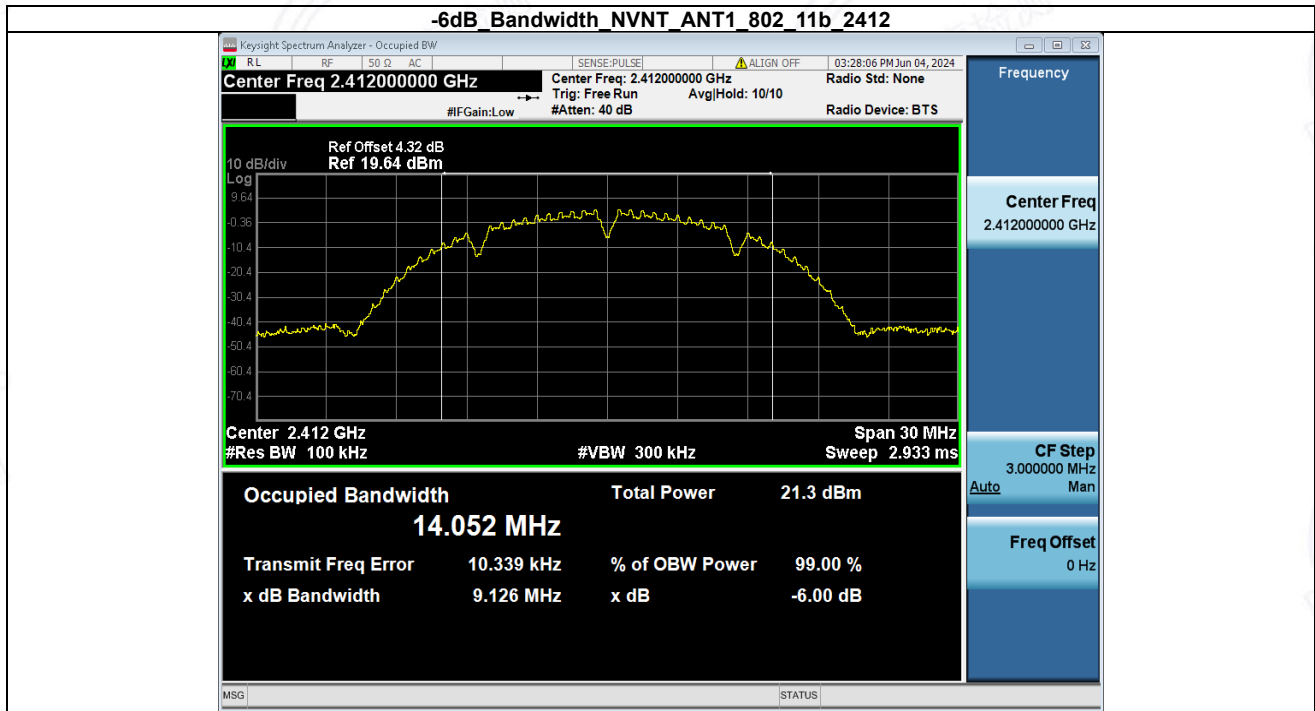
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1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.13	500	Pass
NVNT	ANT1	802.11b	2437.00	9.12	500	Pass
NVNT	ANT1	802.11b	2462.00	9.12	500	Pass
NVNT	ANT1	802.11g	2412.00	16.57	500	Pass
NVNT	ANT1	802.11g	2437.00	16.58	500	Pass
NVNT	ANT1	802.11g	2462.00	16.58	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.79	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

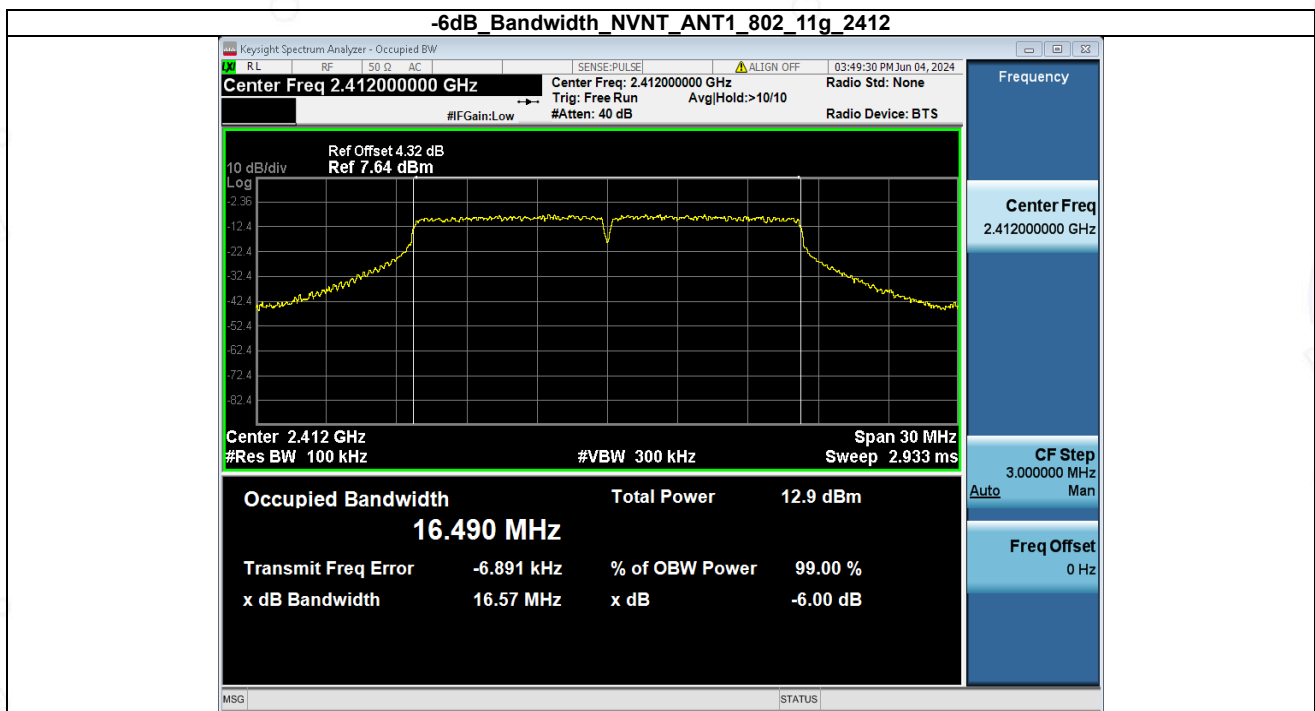
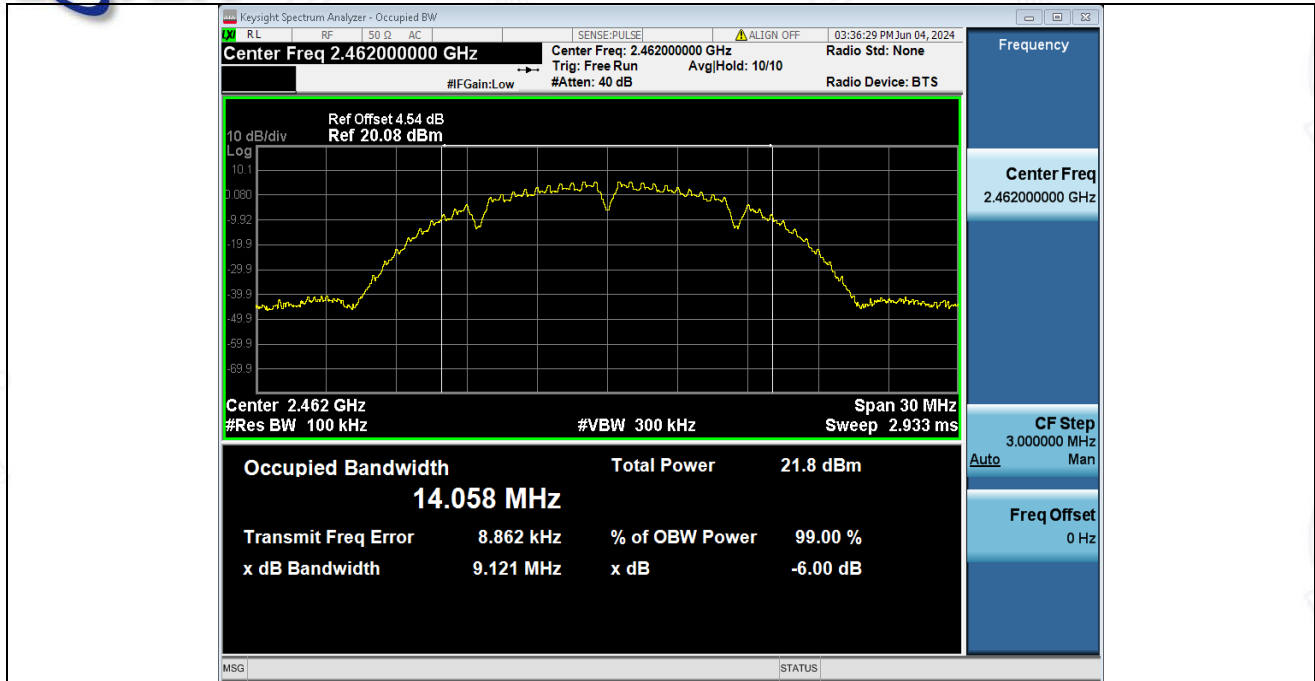
Bao'an District, Shenzhen, Guangdong, China 518104

Tel : +(86)755-2334 4200

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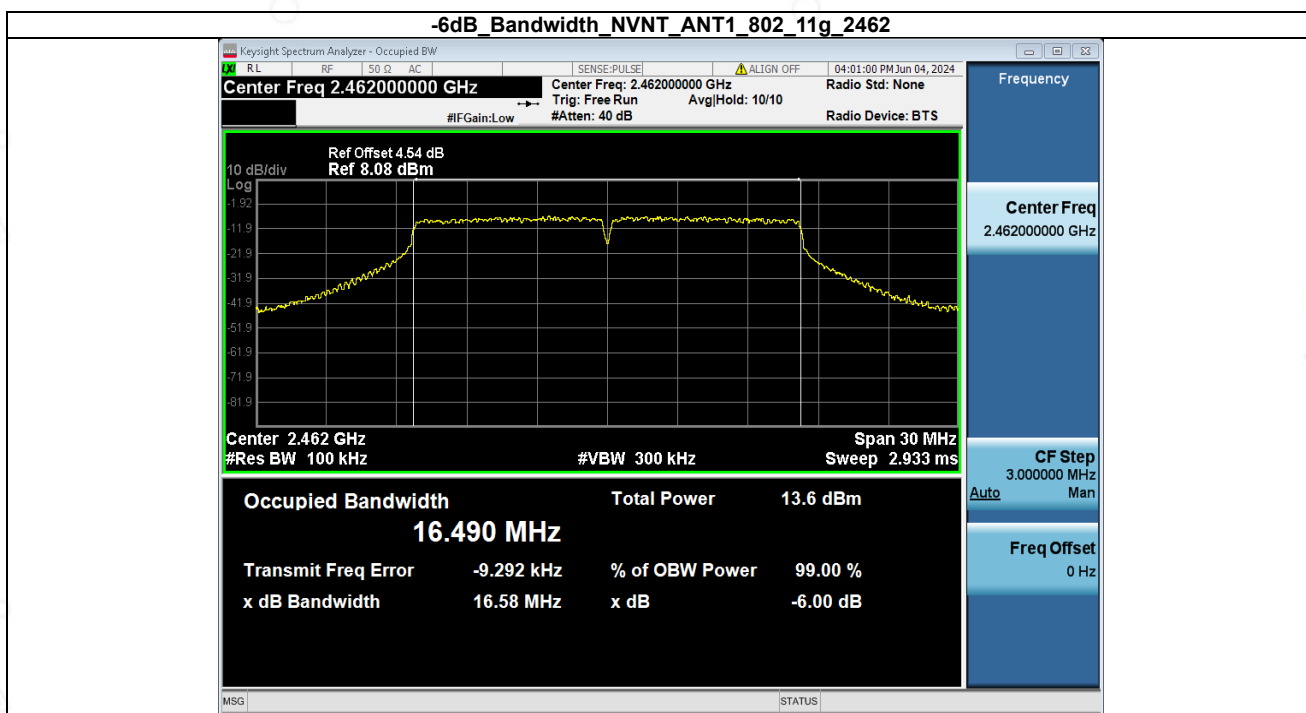
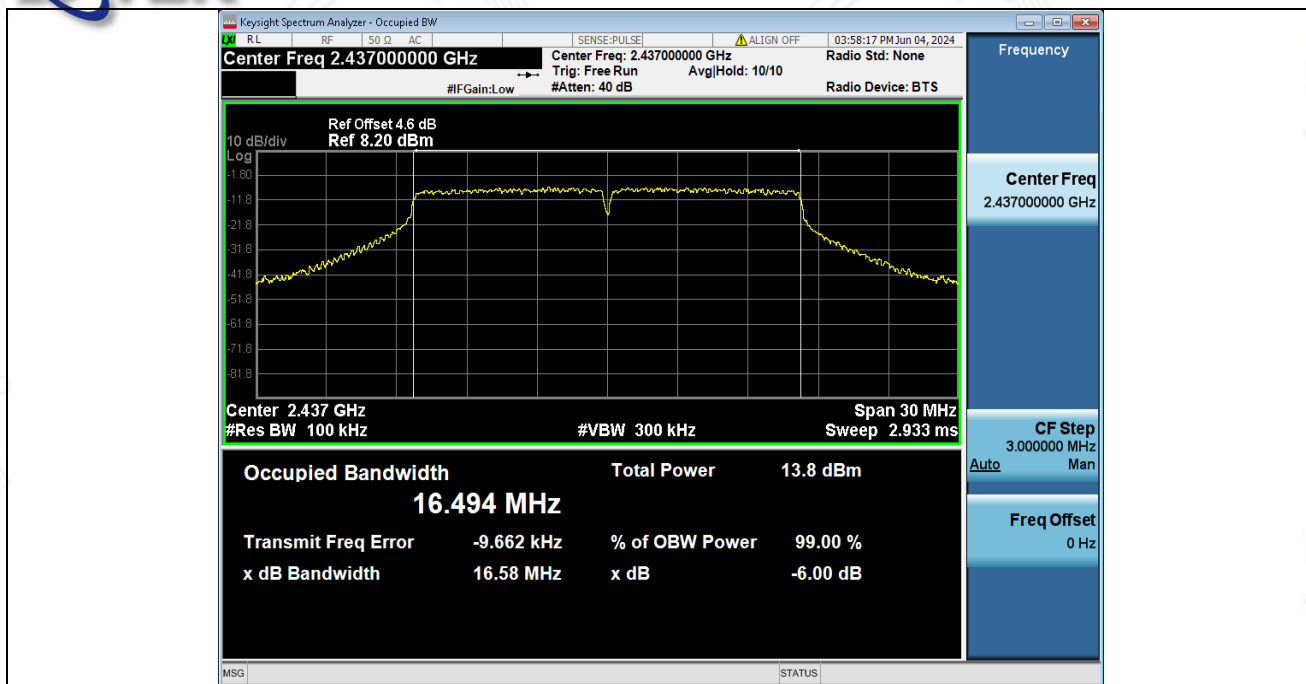
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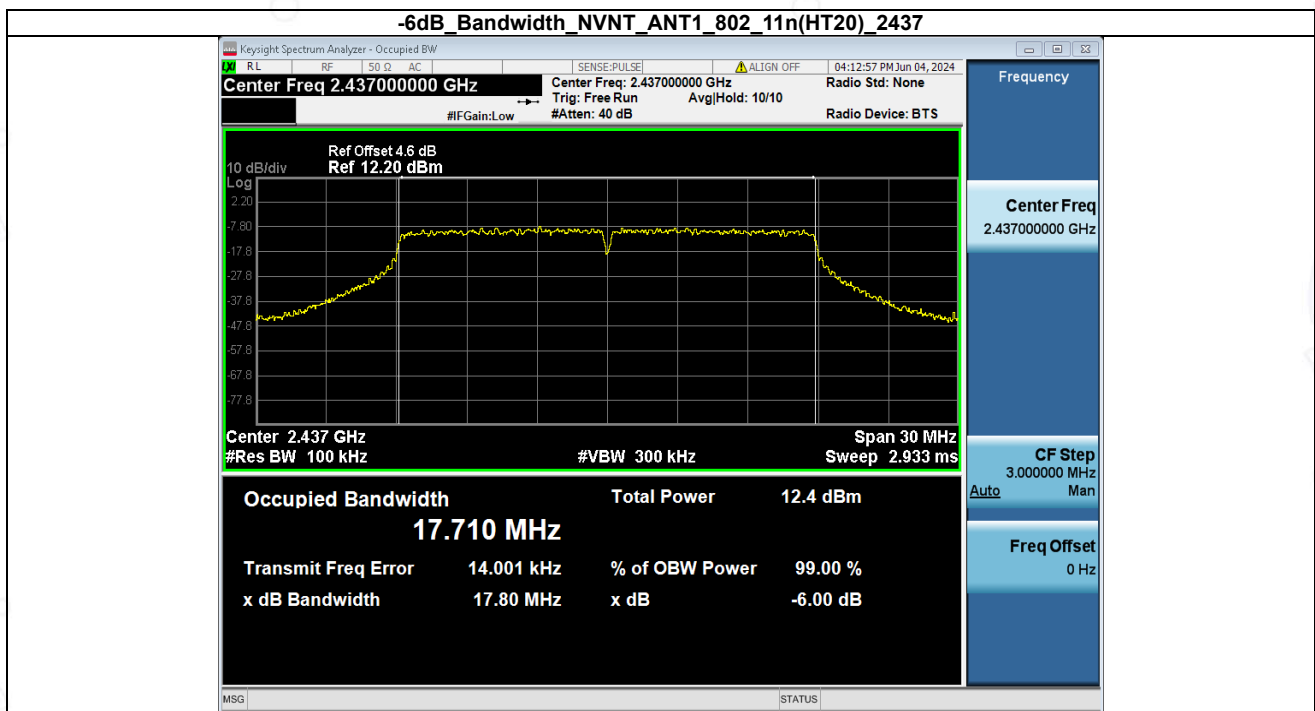
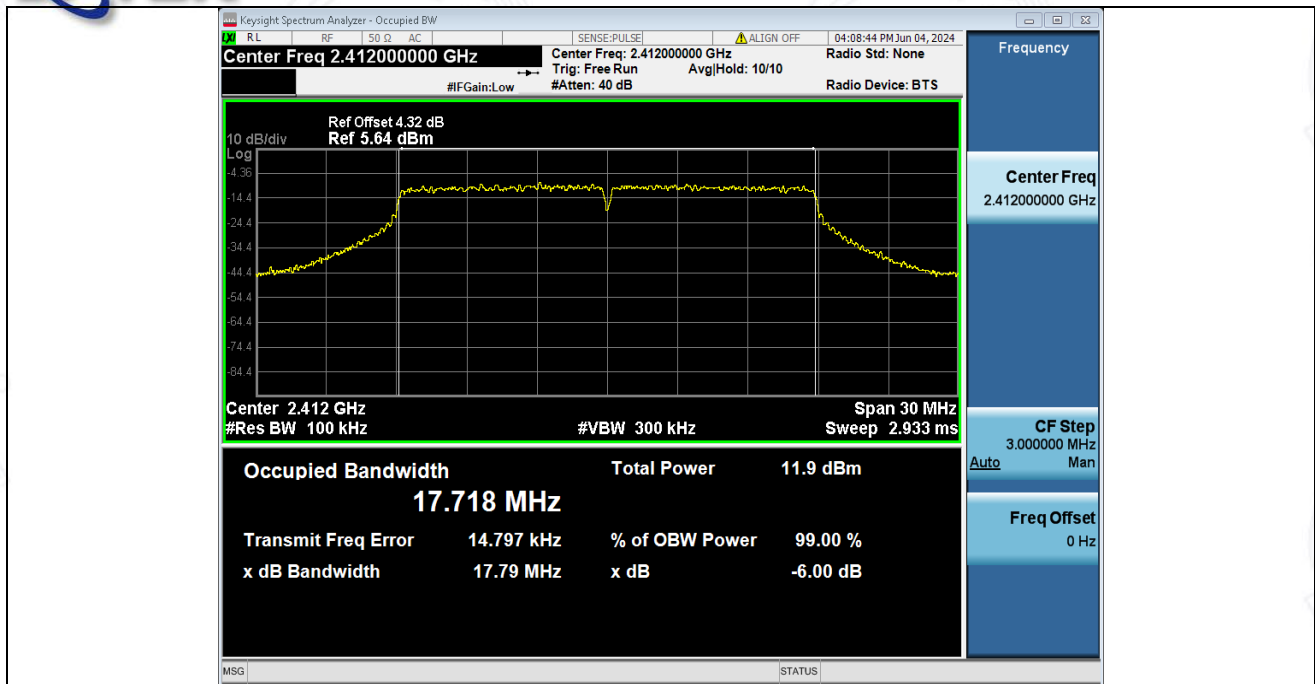
-6dB Bandwidth_NVNT_ANT1_802_11g_2437





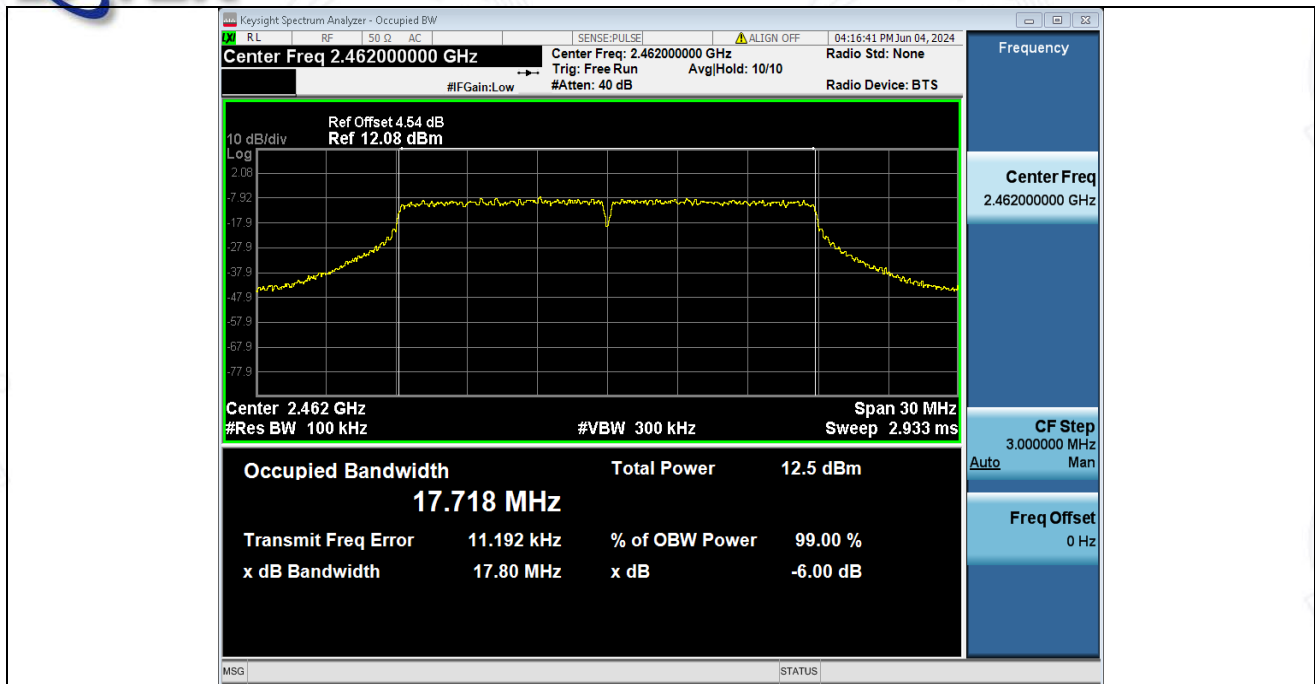
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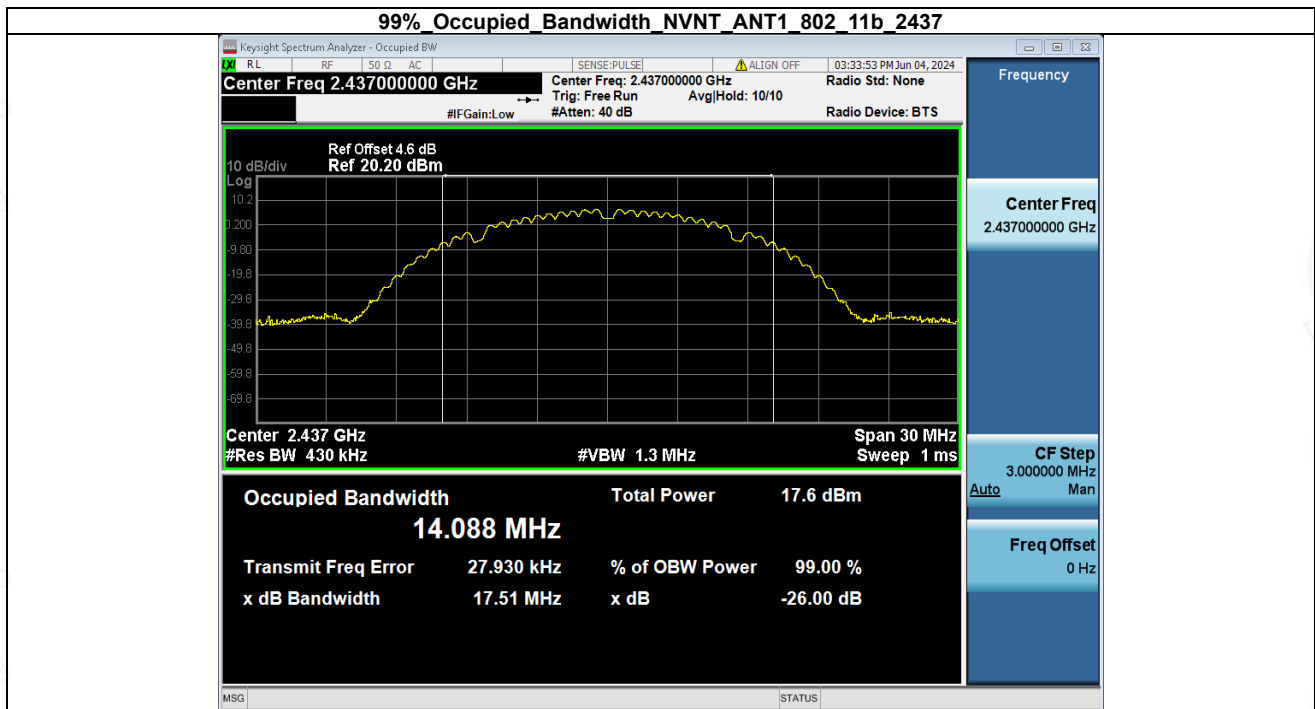
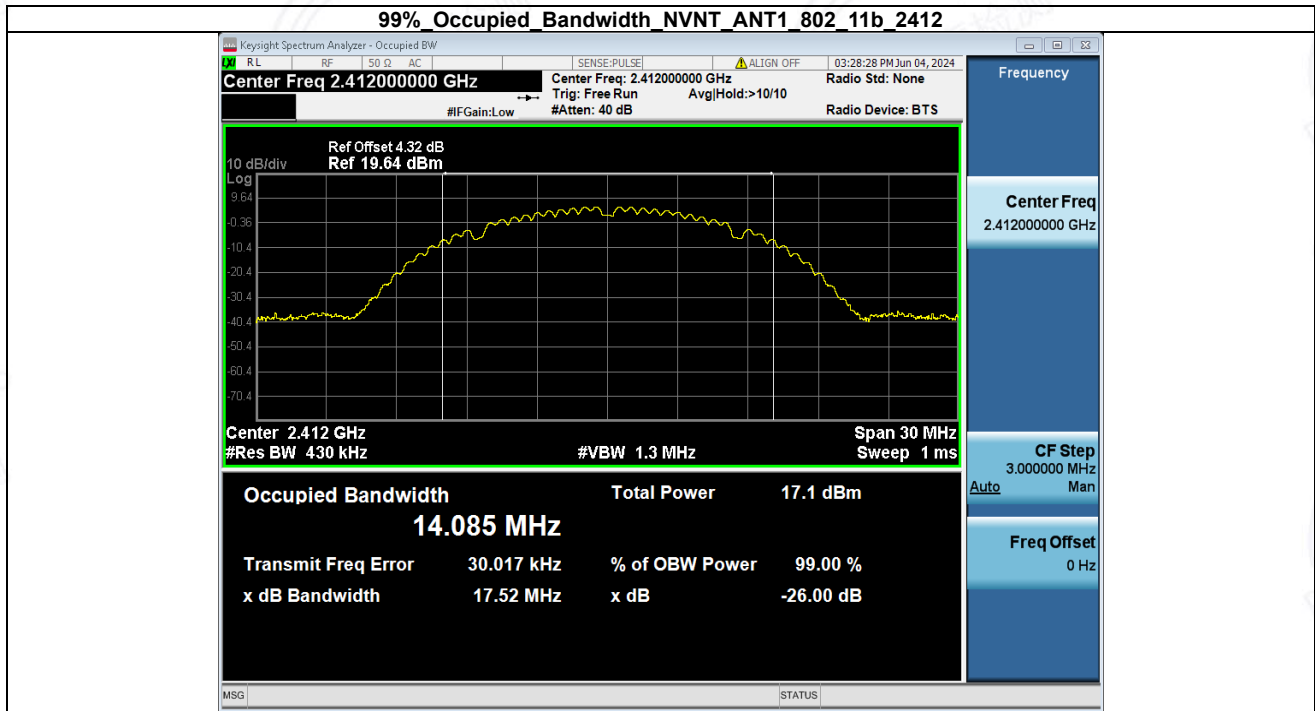
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	14.085
NVNT	ANT1	802.11b	2437.00	14.088
NVNT	ANT1	802.11b	2462.00	14.093
NVNT	ANT1	802.11g	2412.00	17.719
NVNT	ANT1	802.11g	2437.00	17.718
NVNT	ANT1	802.11g	2462.00	17.708
NVNT	ANT1	802.11n(HT20)	2412.00	18.610
NVNT	ANT1	802.11n(HT20)	2437.00	18.607
NVNT	ANT1	802.11n(HT20)	2462.00	18.603



99% Occupied Bandwidth_NVNT_ANT1_802_11b_2462

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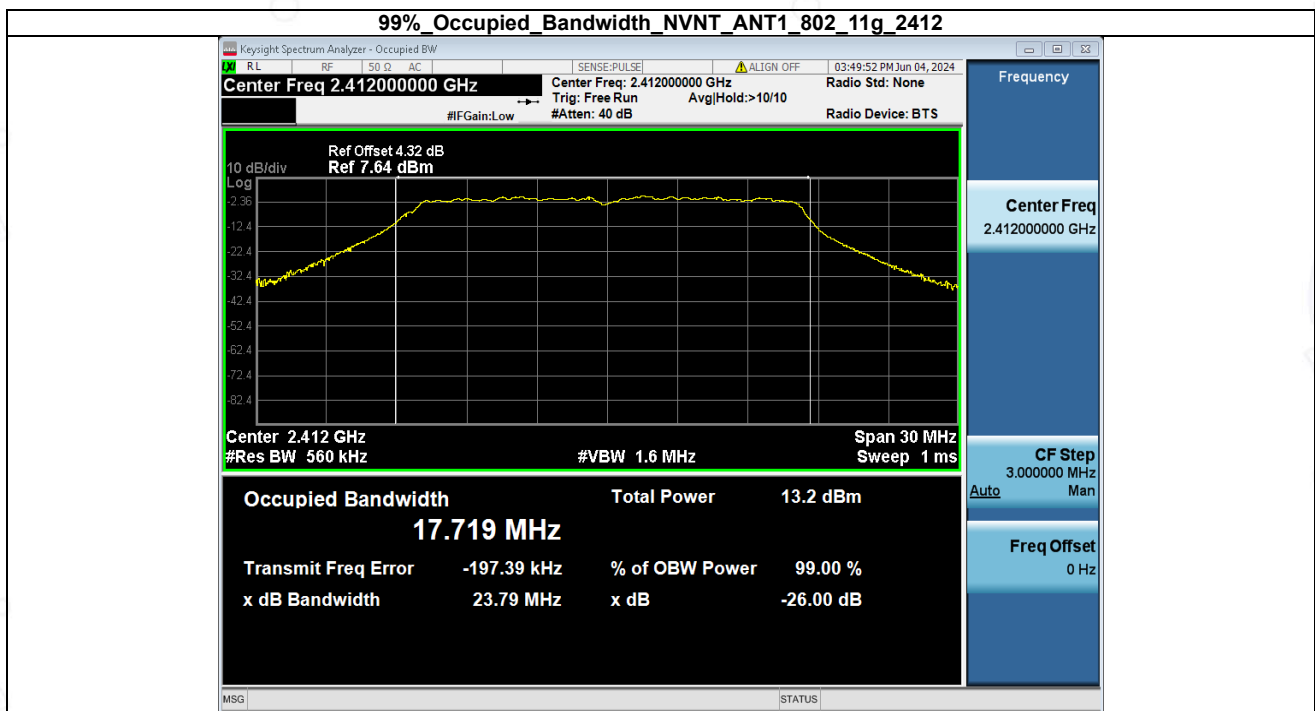
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Tel : +(86)755-2334 4200

E-mail : Service@btek-lab.com

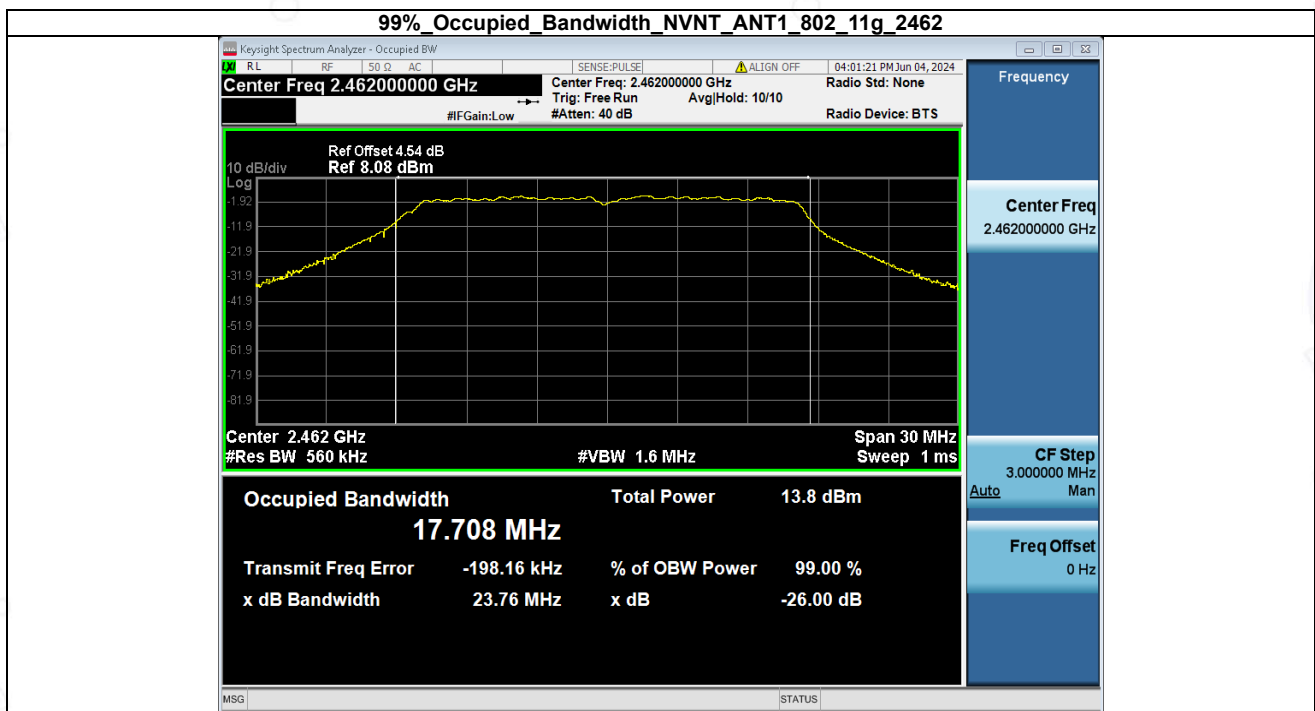
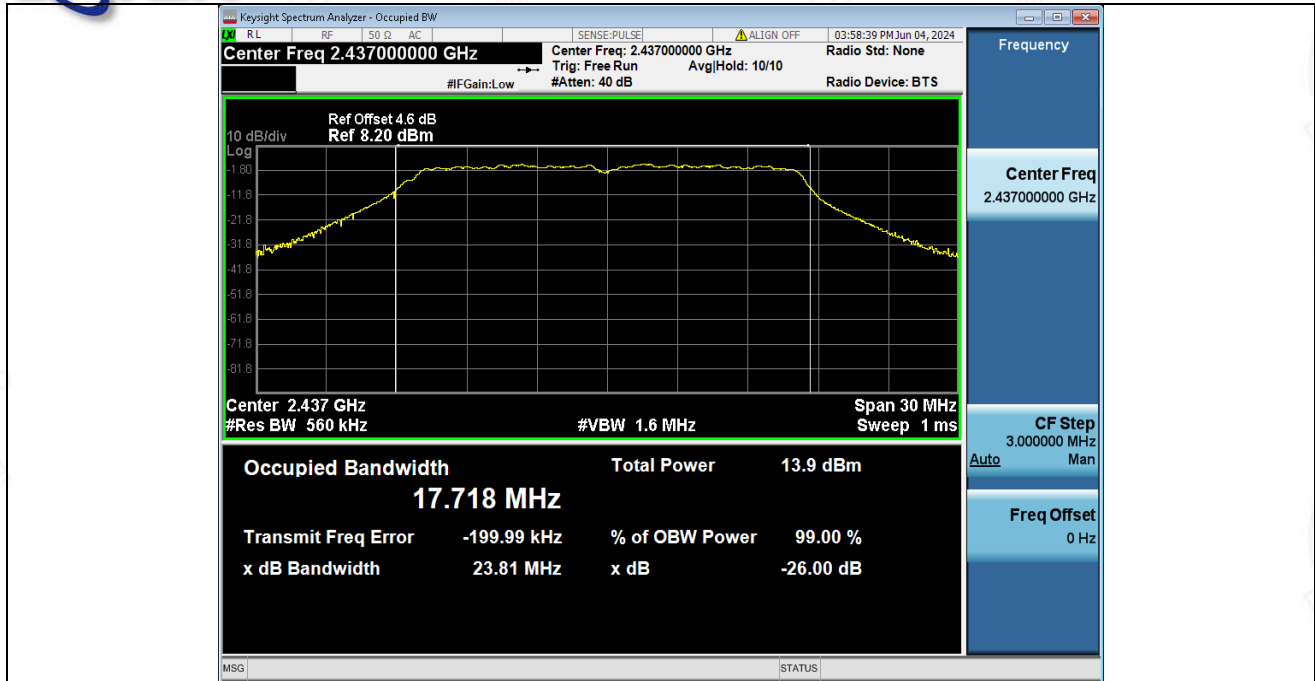
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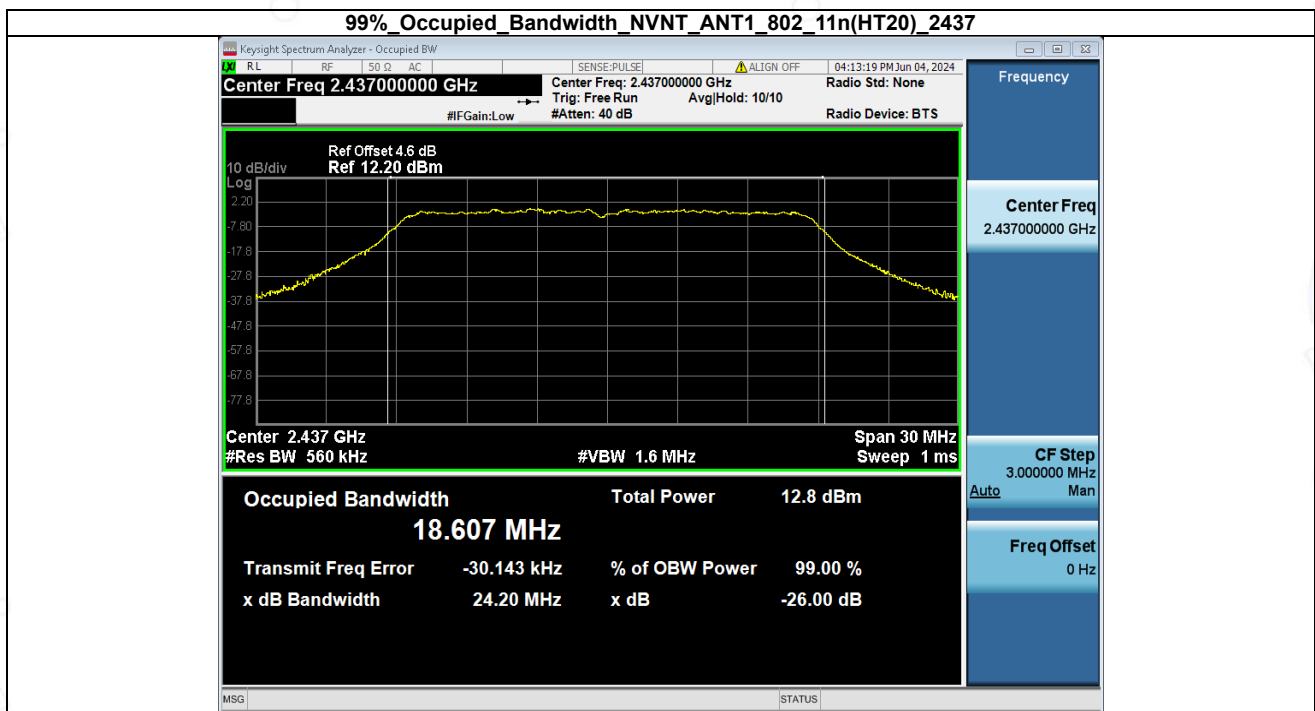
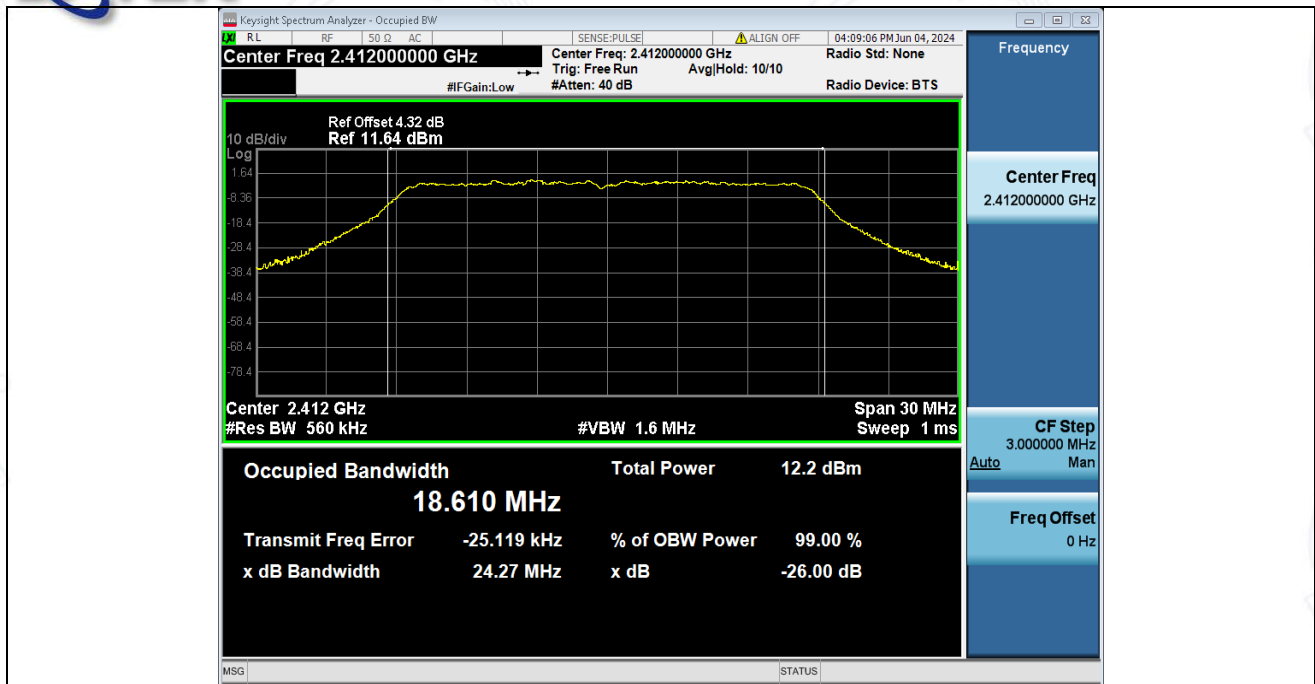
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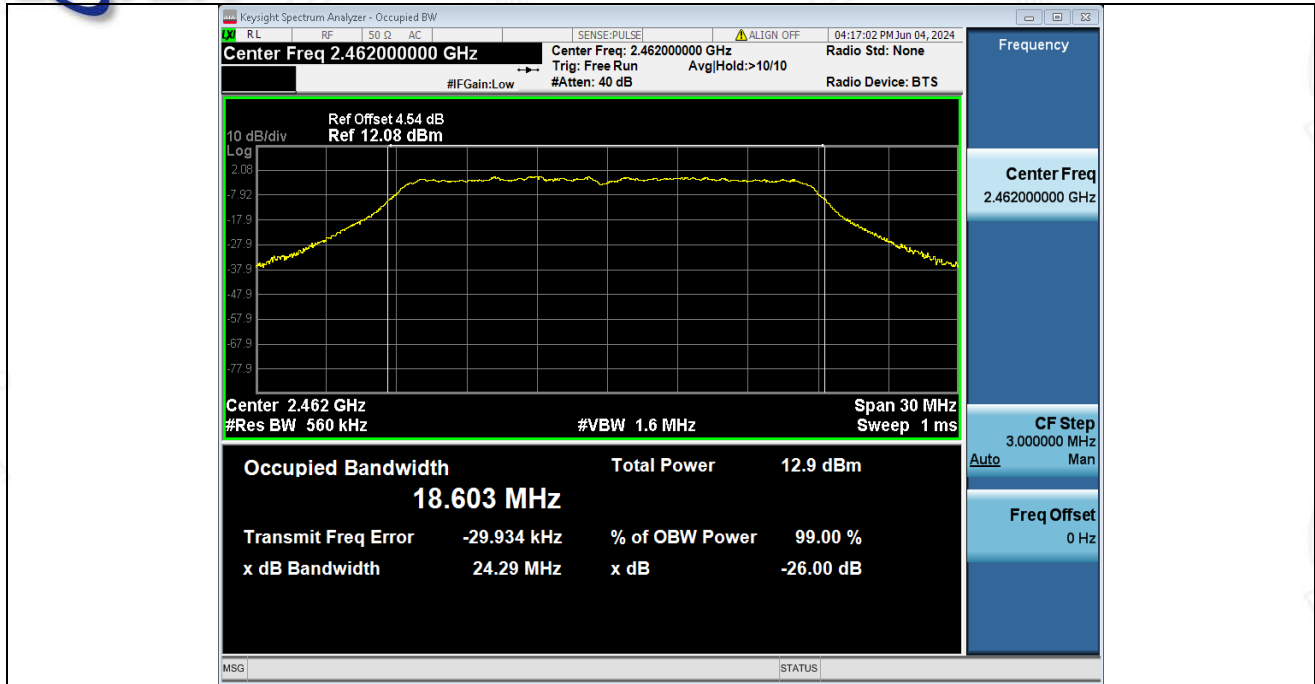
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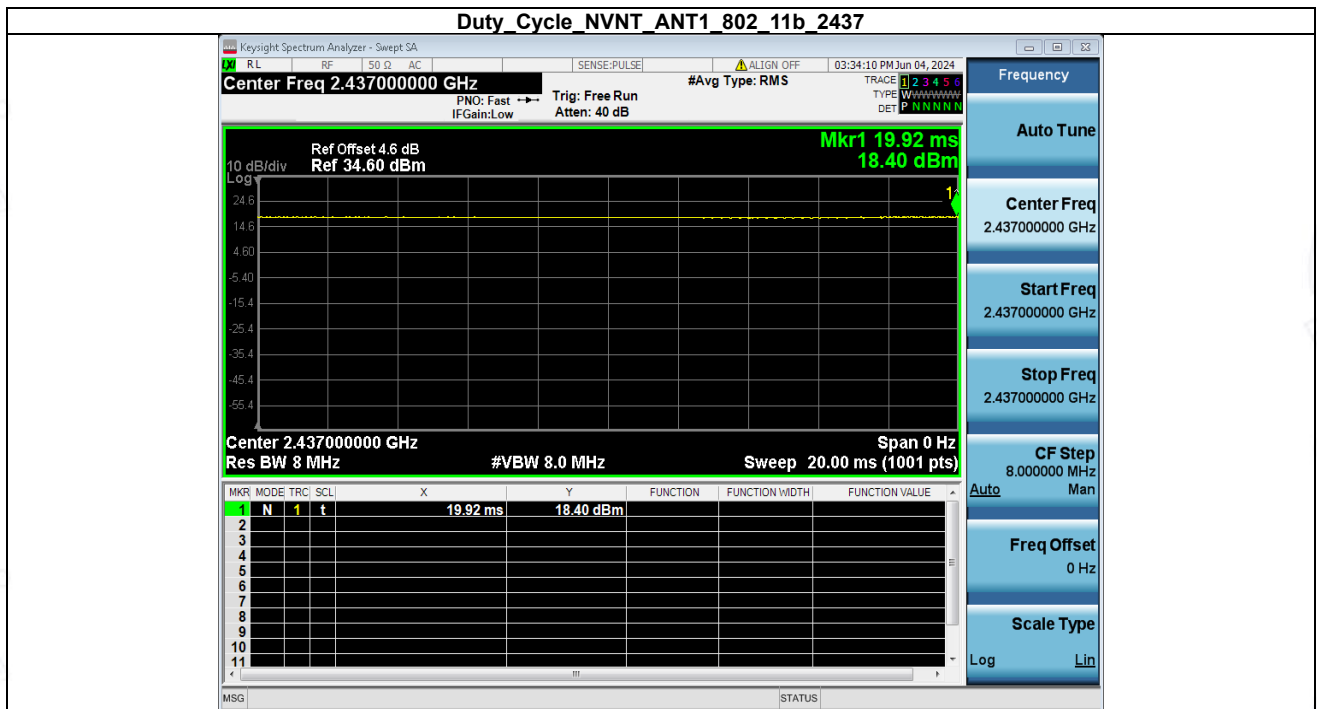
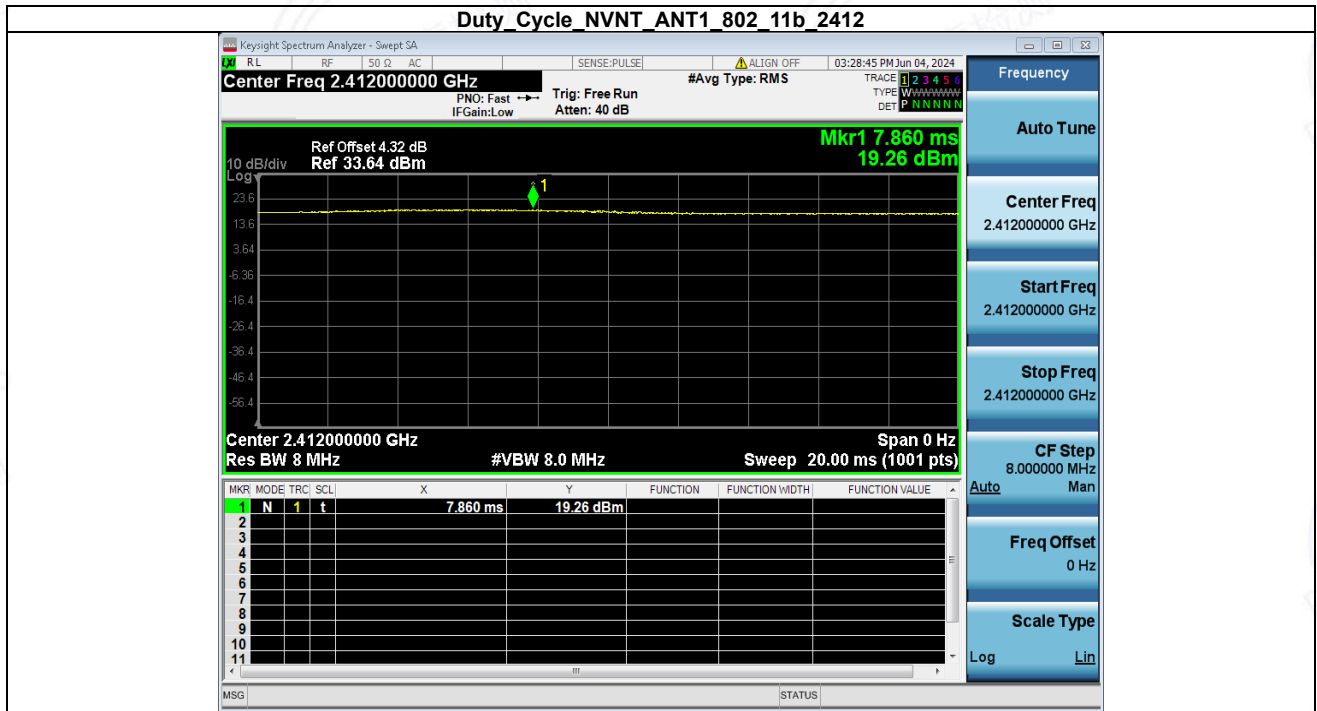
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462





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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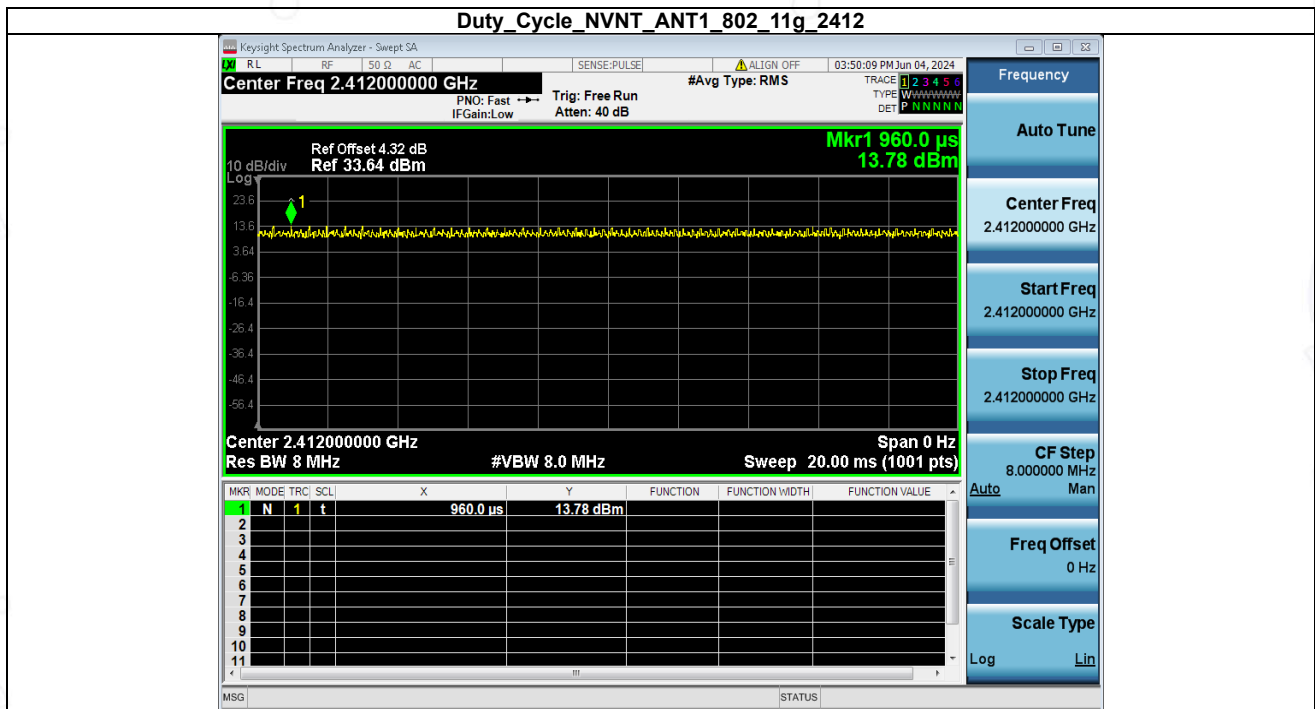
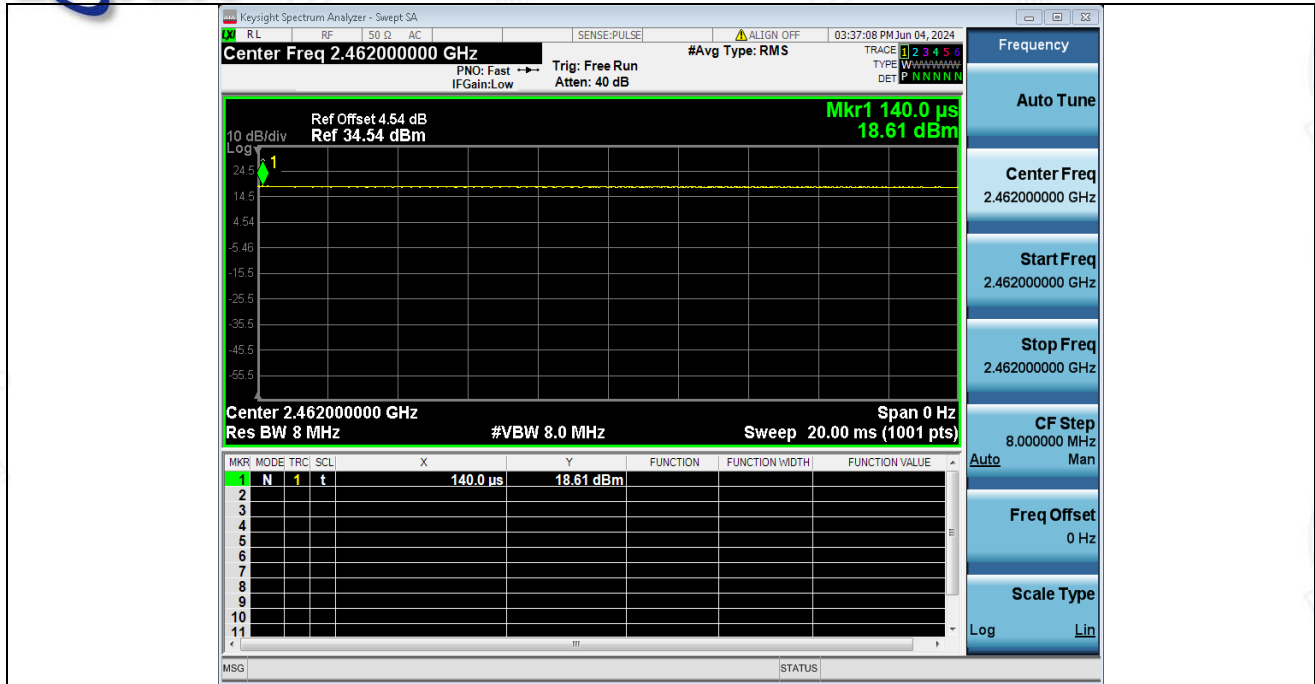
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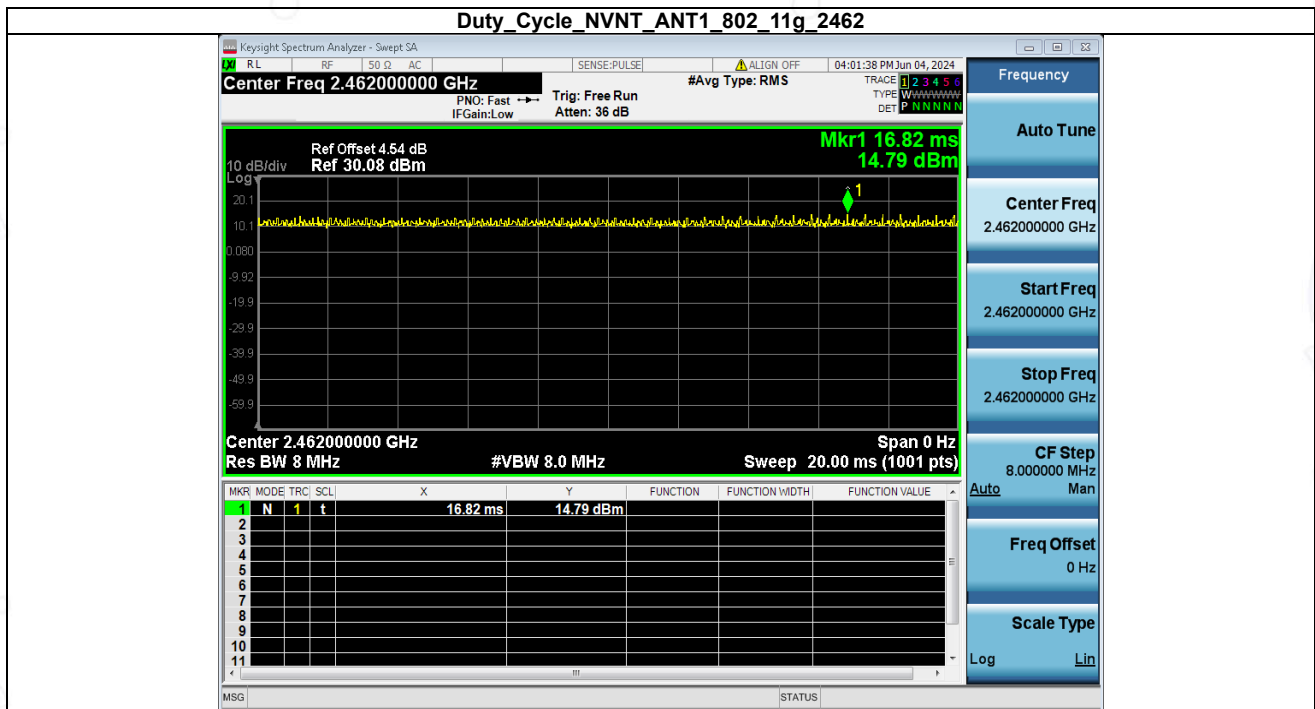
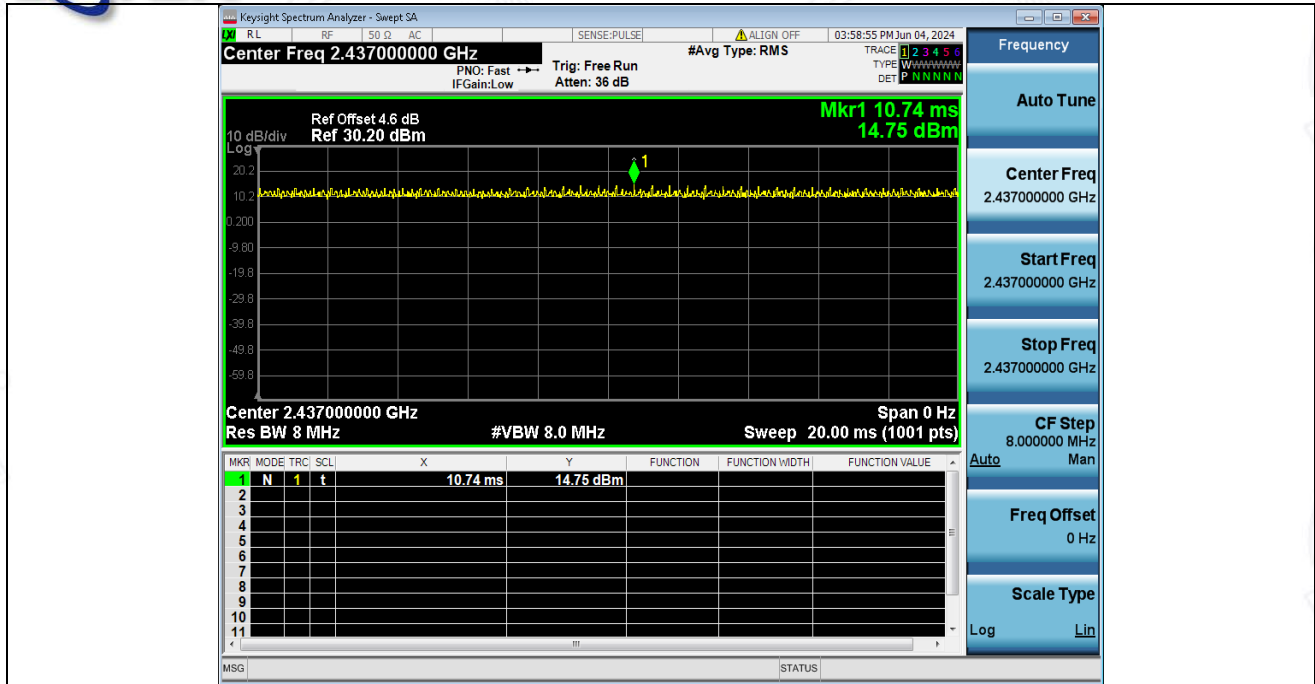
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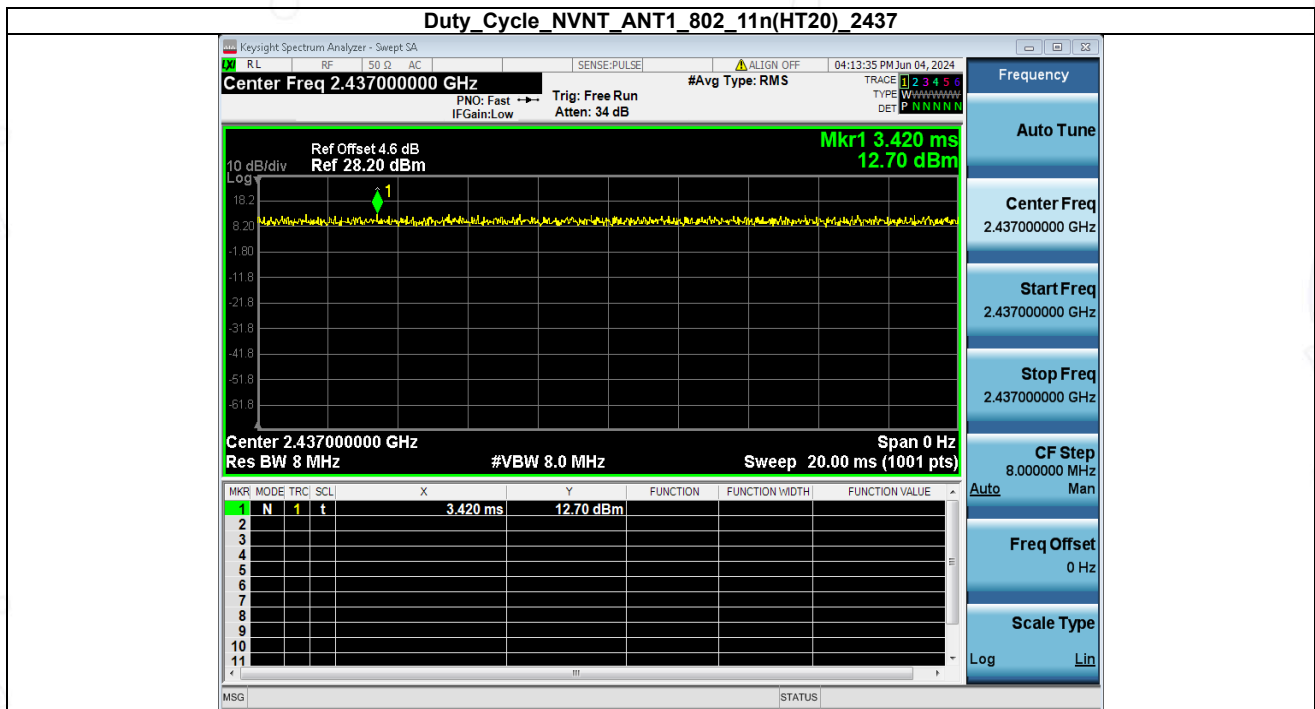
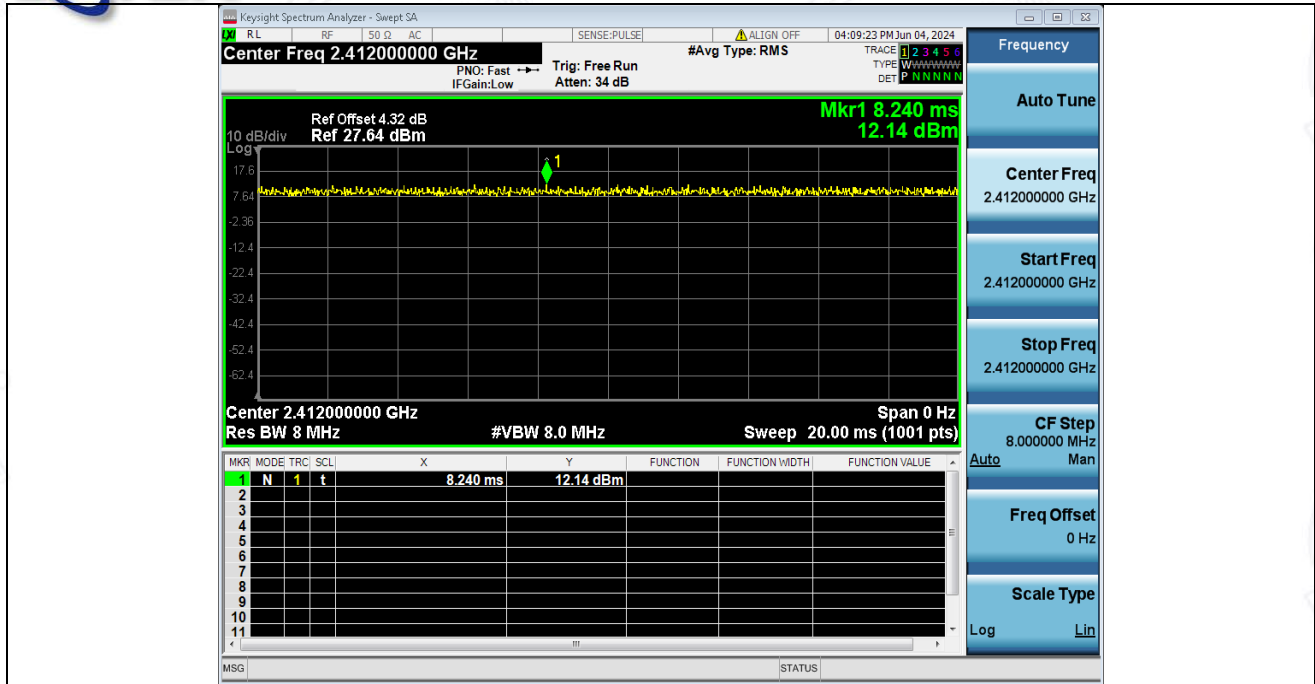
Duty Cycle NVNT_ANT1_802_11g_2437





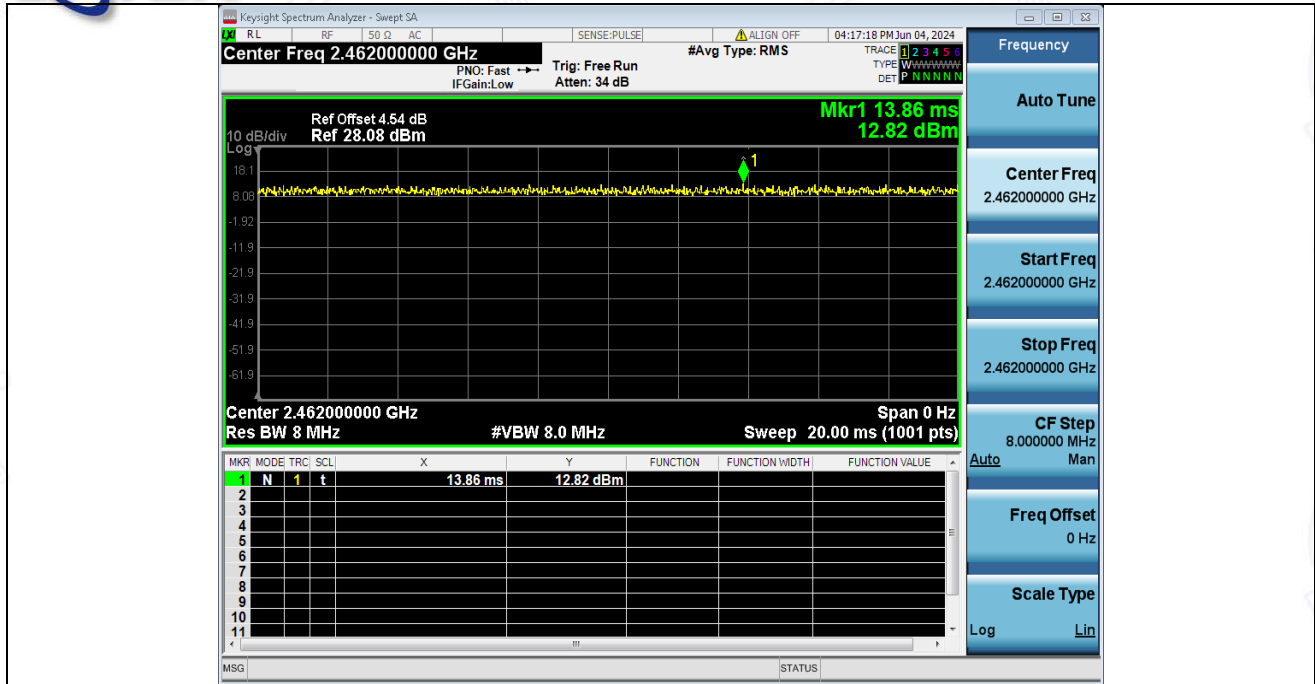
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412





Duty Cycle NVNT_ANT1_802_11n(HT20)_2462





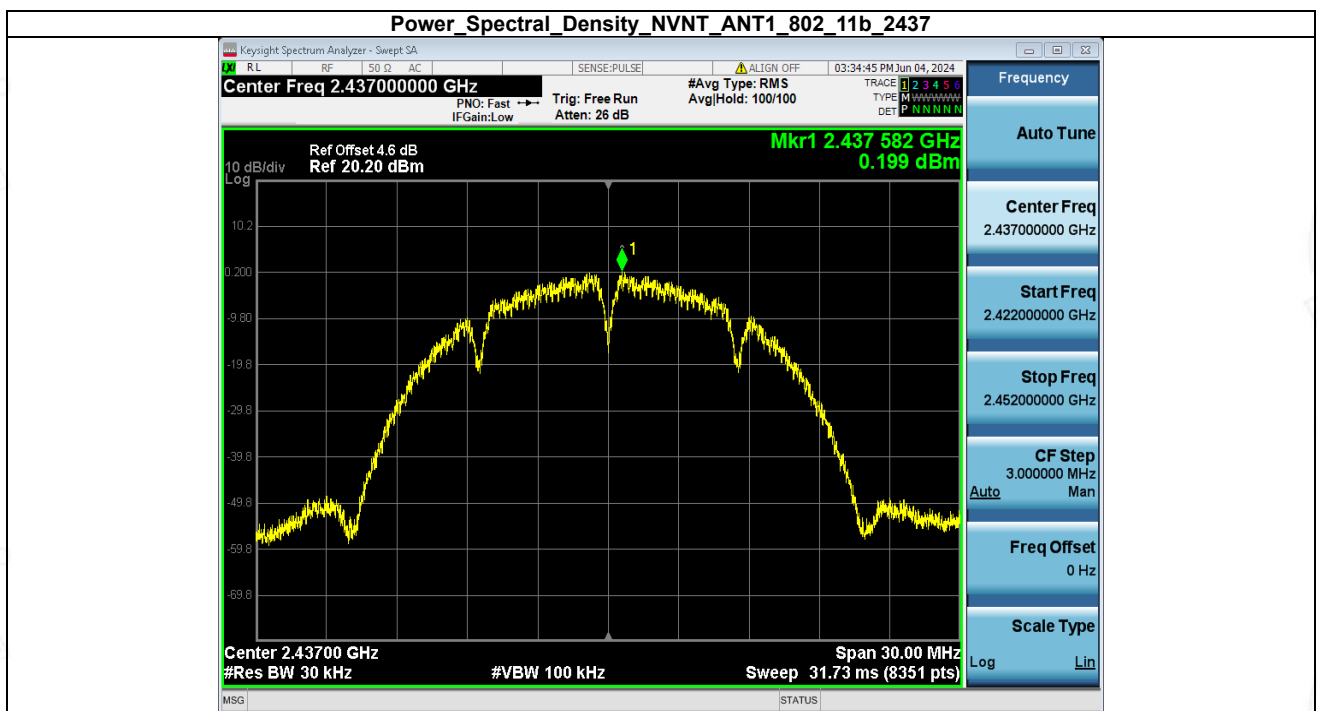
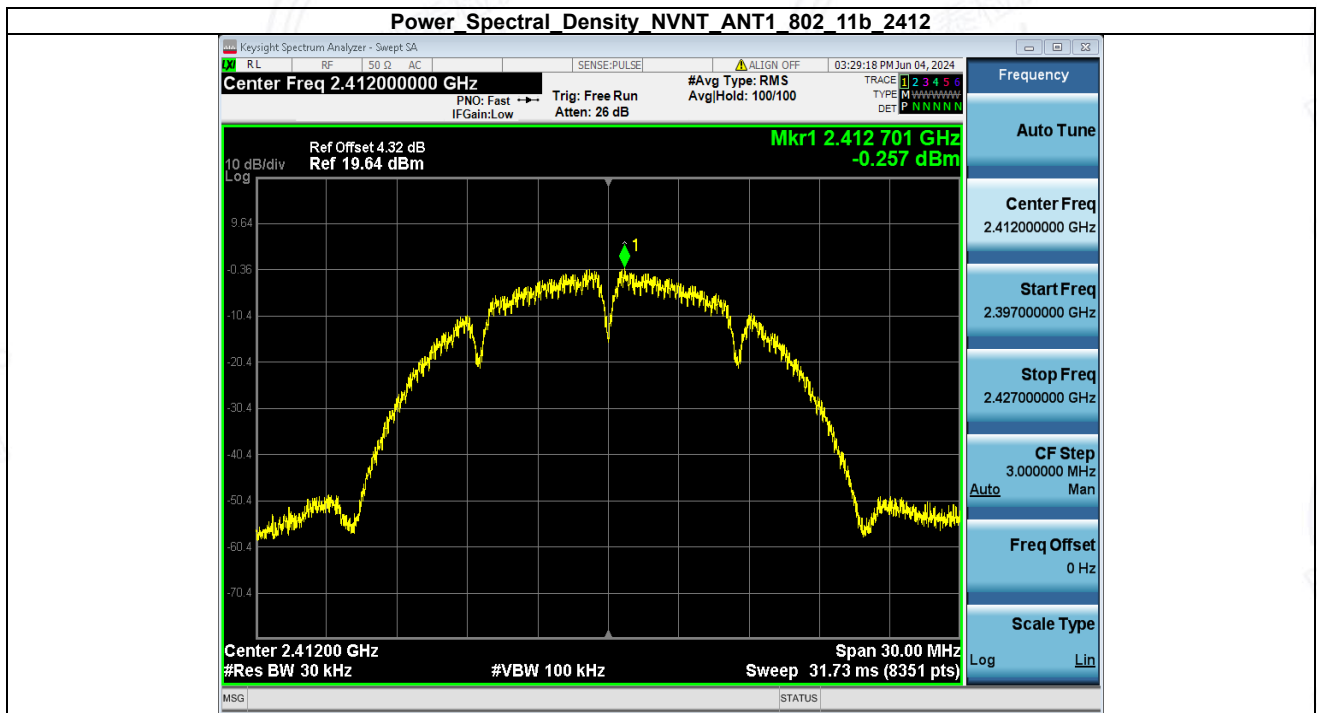
4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	17.18	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	17.61	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.80	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	14.16	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	14.78	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	14.88	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	13.14	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	13.71	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	13.86	30	Pass



5. Power Spectral Density

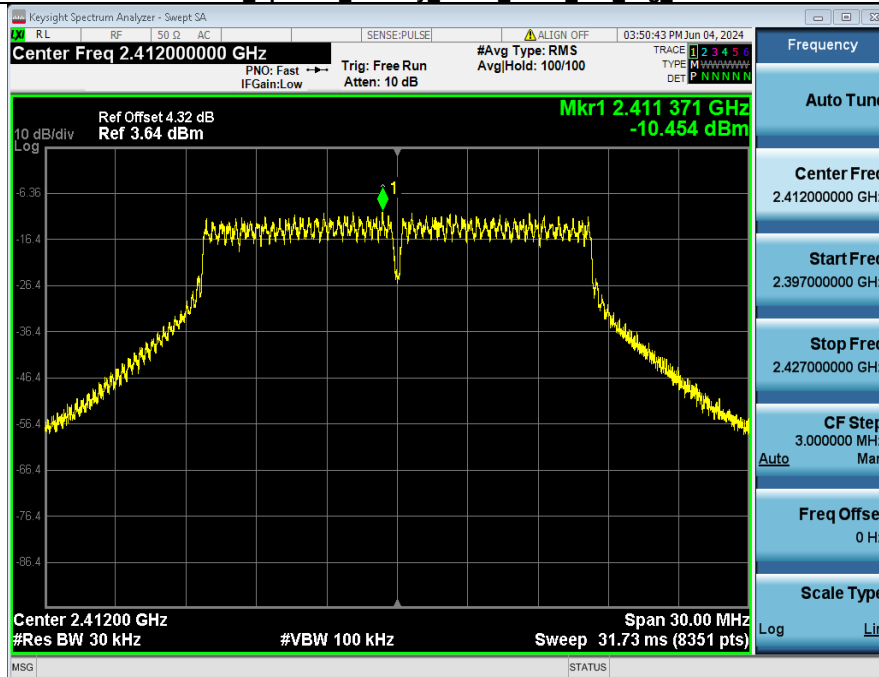
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-0.26	-10.00	-10.26	8	Pass
NVNT	ANT1	802.11b	2437.00	0.20	-10.00	-9.80	8	Pass
NVNT	ANT1	802.11b	2462.00	0.37	-10.00	-9.63	8	Pass
NVNT	ANT1	802.11g	2412.00	-10.45	-10.00	-20.45	8	Pass
NVNT	ANT1	802.11g	2437.00	-9.99	-10.00	-19.99	8	Pass
NVNT	ANT1	802.11g	2462.00	-9.88	-10.00	-19.88	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-11.07	-10.00	-21.07	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-10.44	-10.00	-20.44	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-10.57	-10.00	-20.57	8	Pass



Power Spectral Density NVNT_ANT1_802_11b_2462

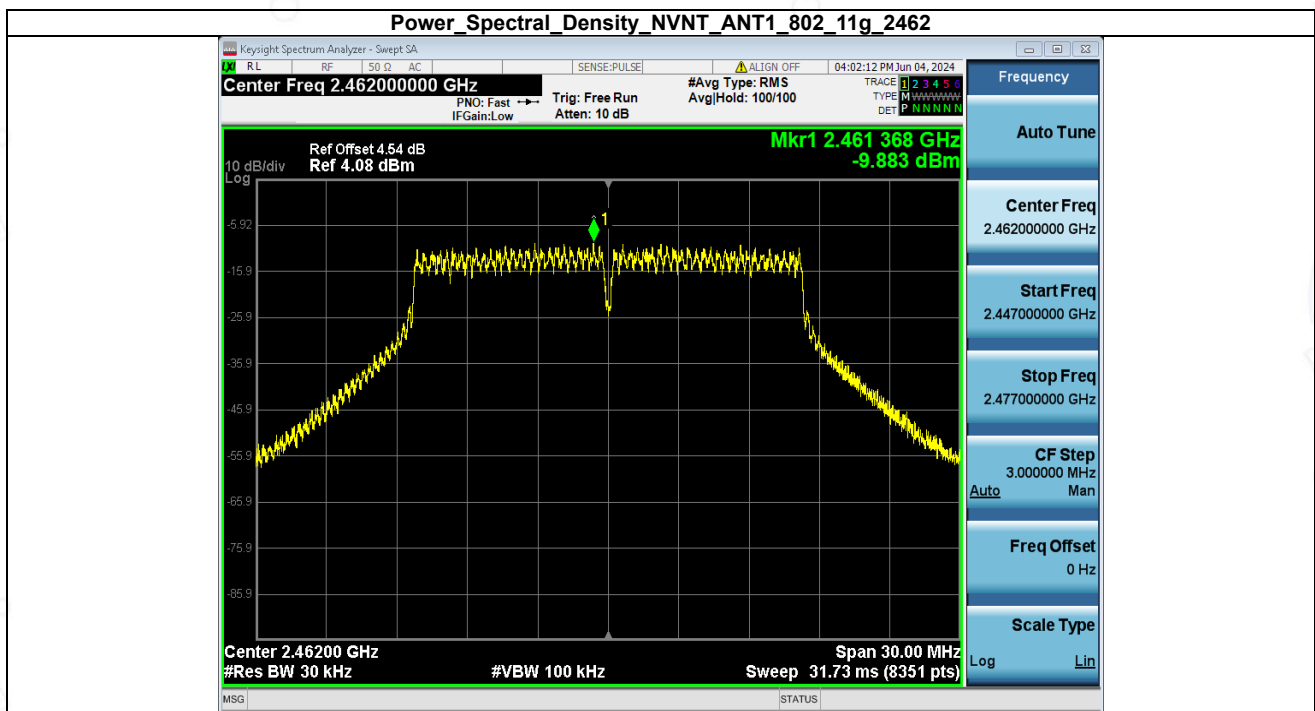
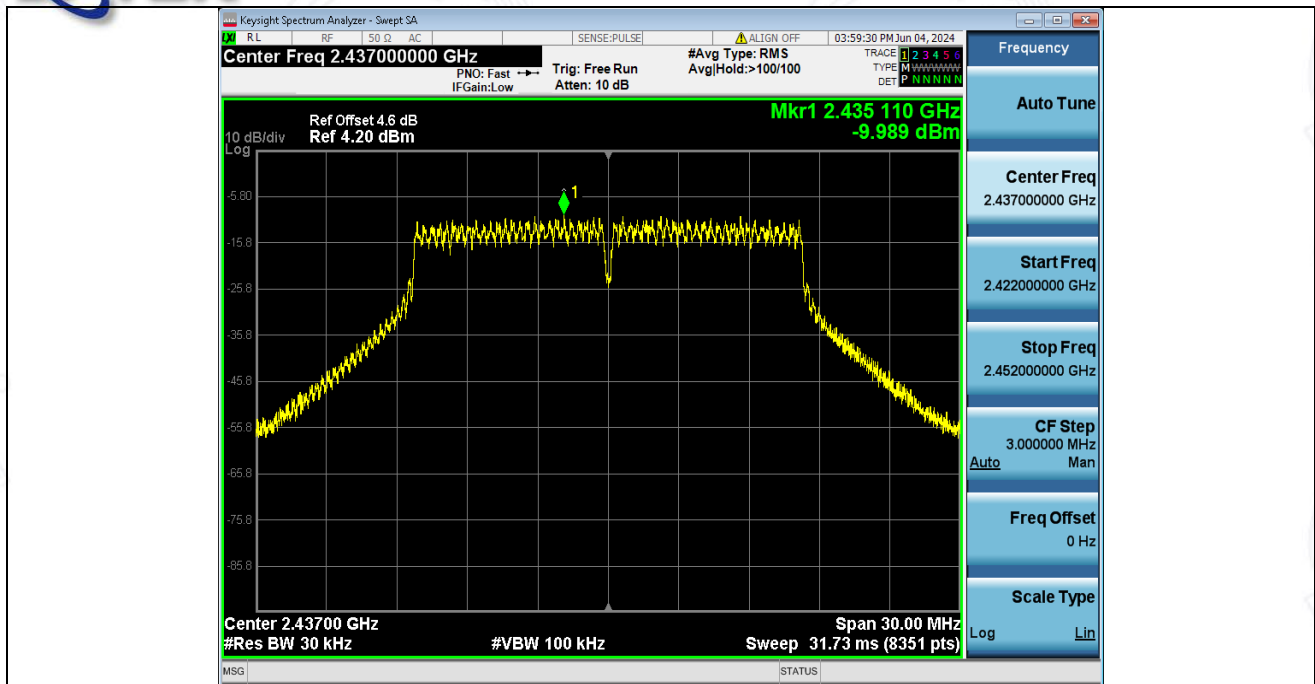


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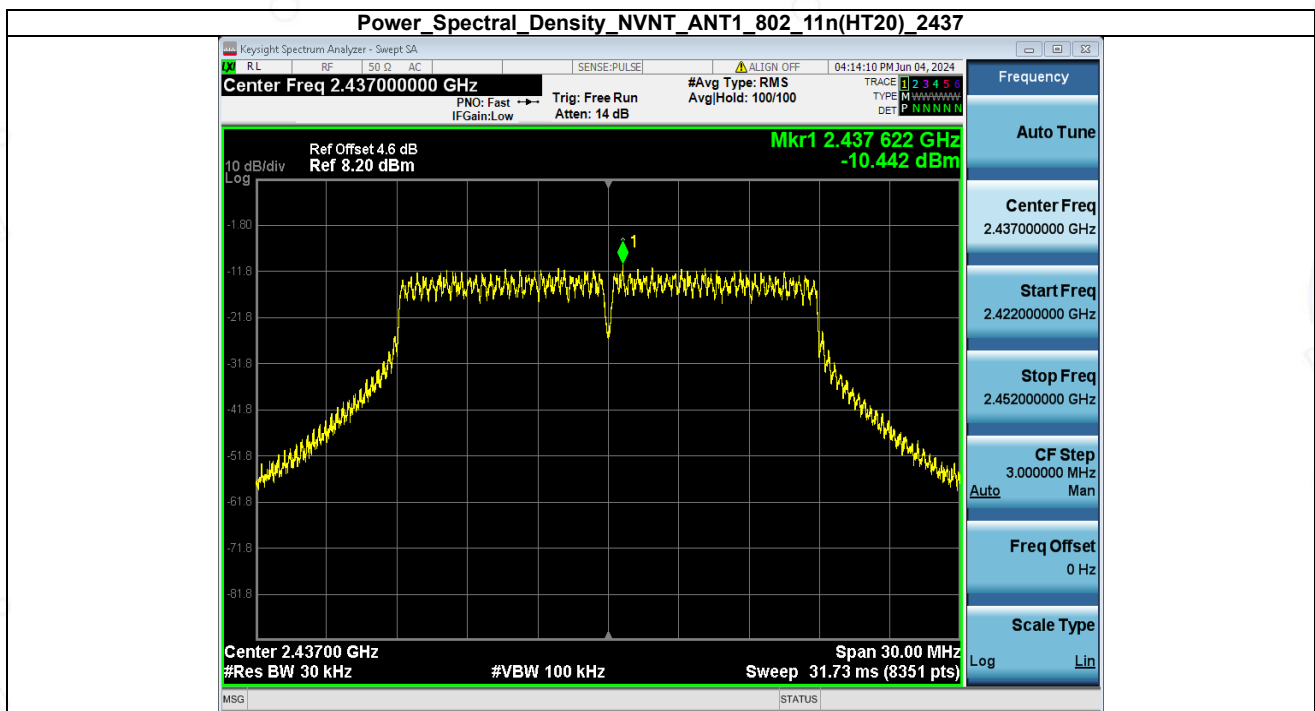
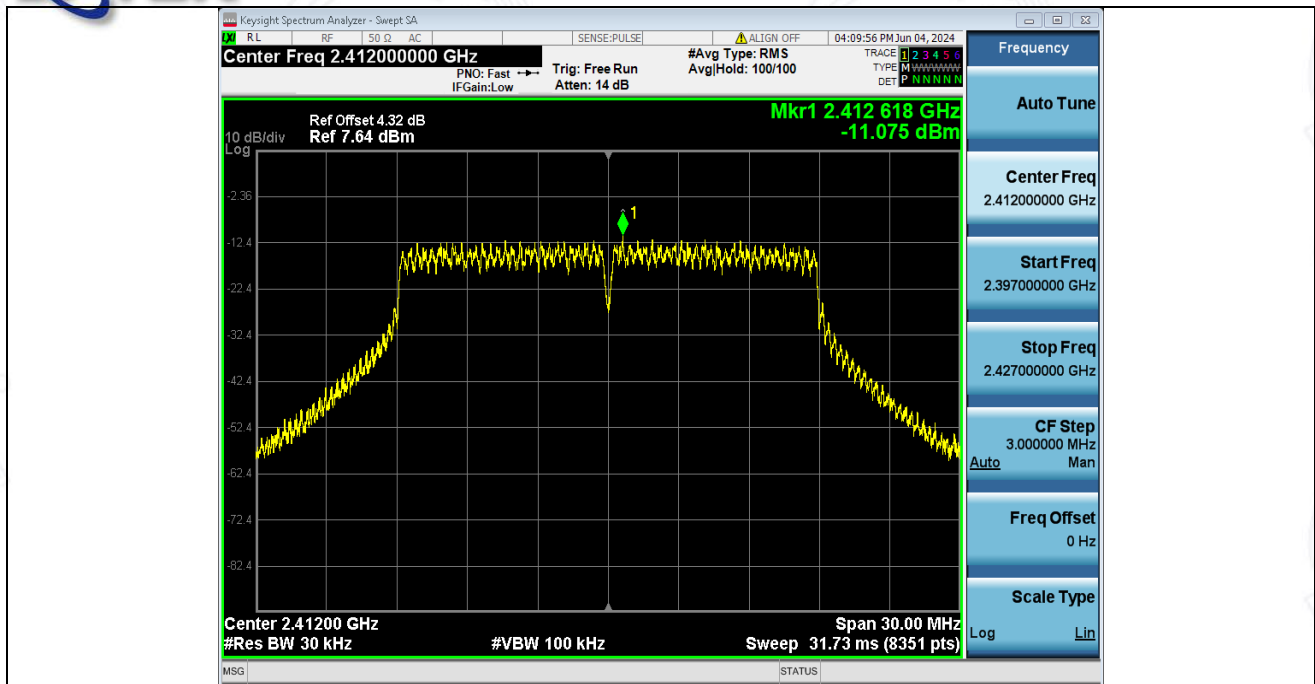
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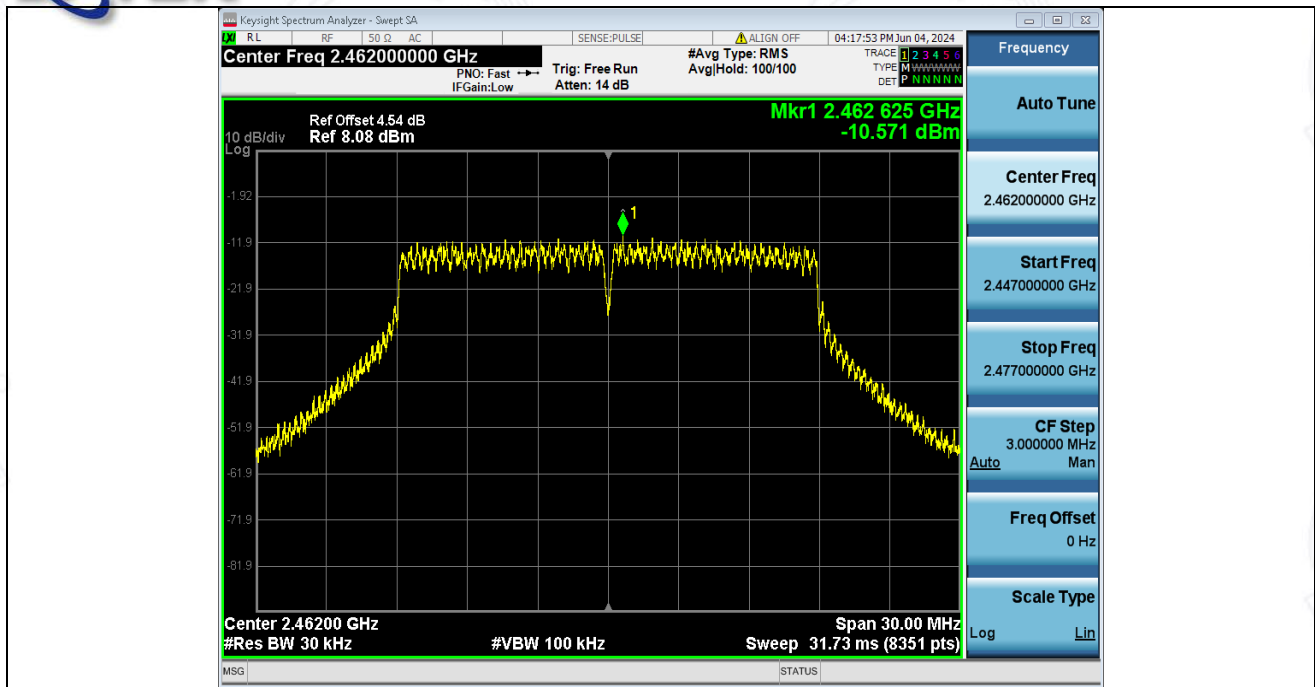
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412





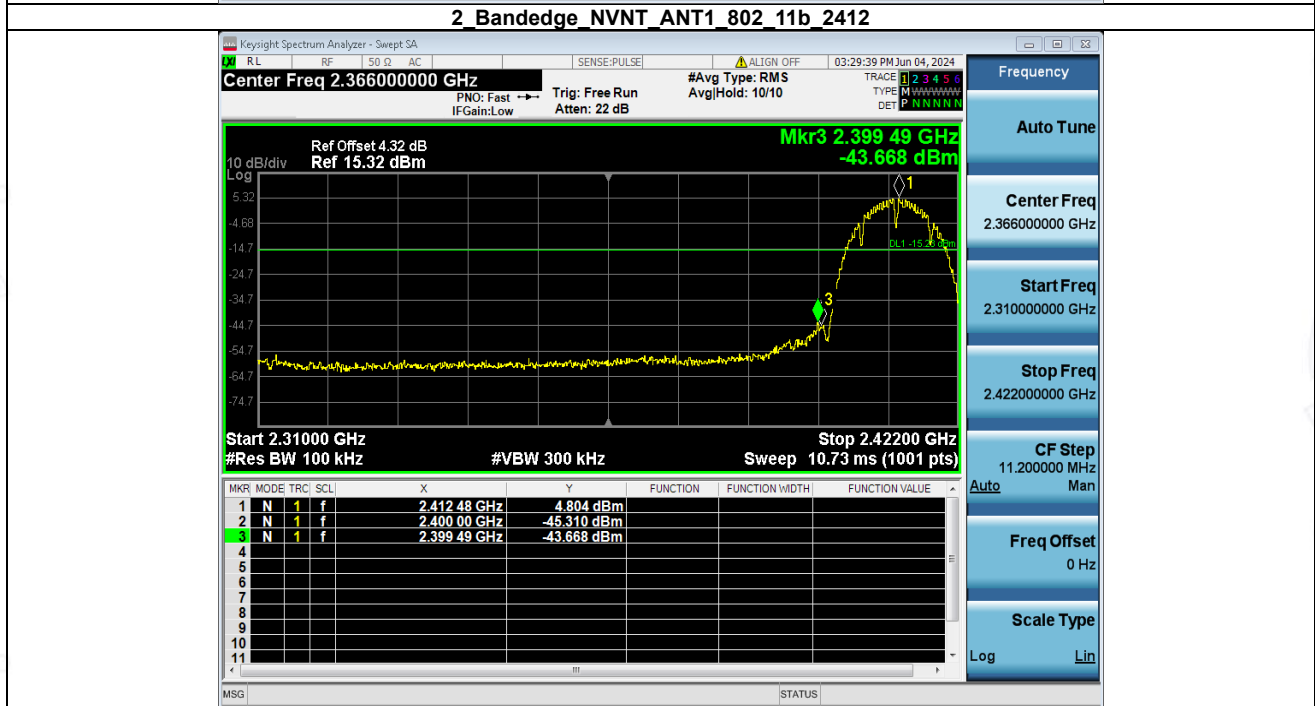
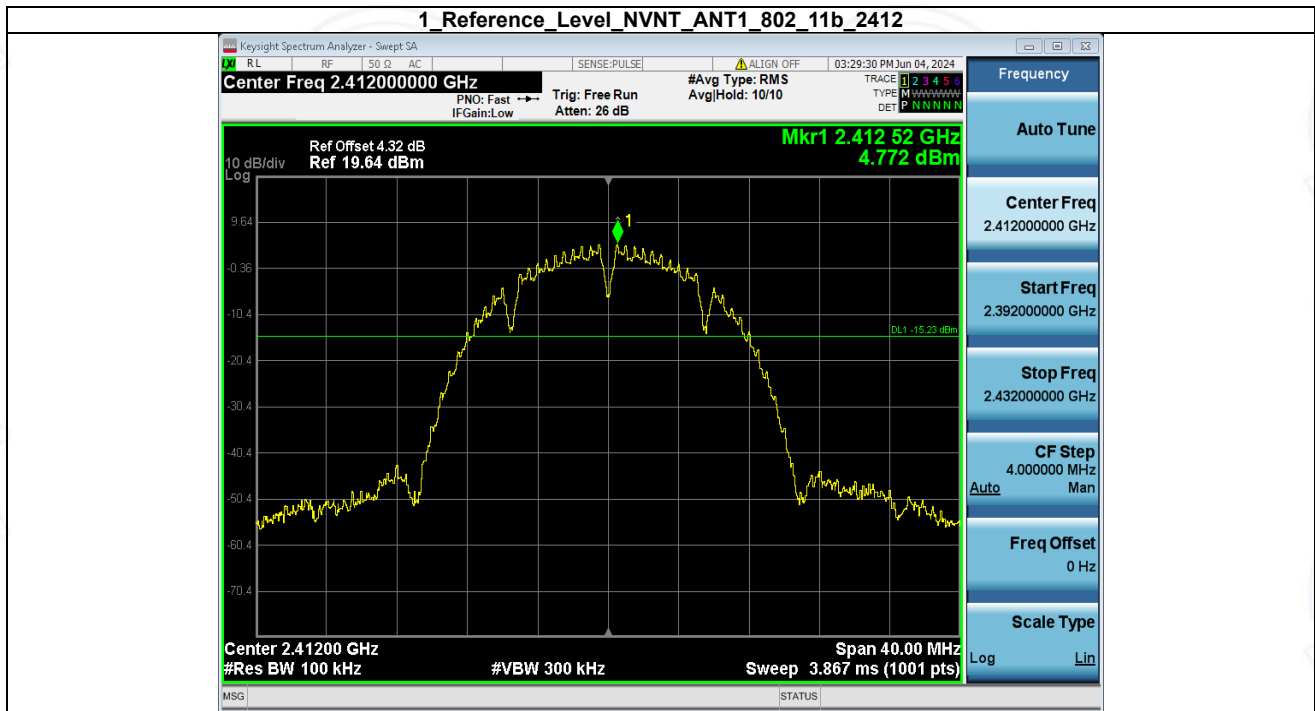
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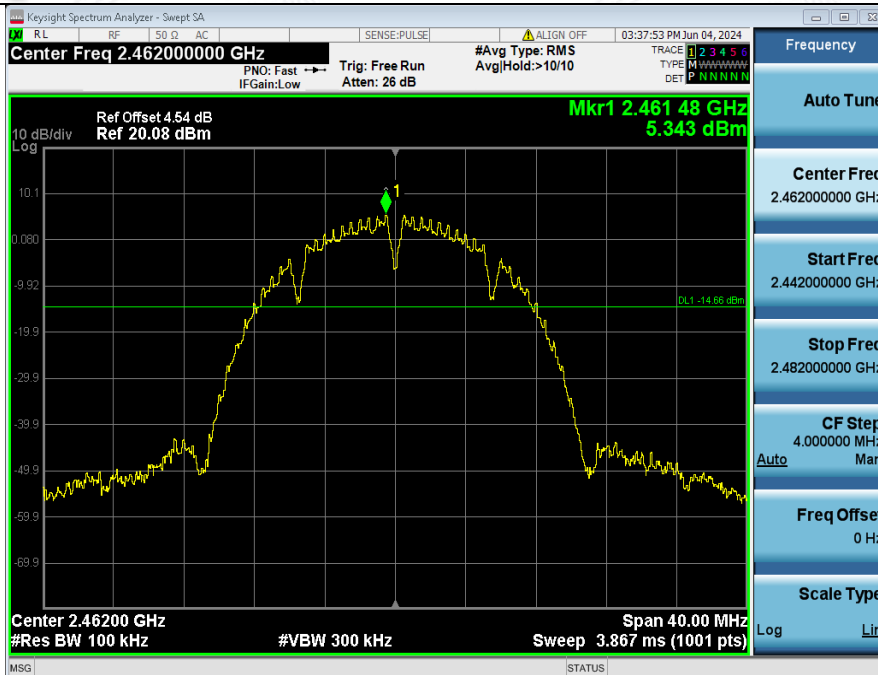
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.488	-43.668	-15.228	Pass
NVNT	ANT1	802.11b	2462.00	2484.544	-55.186	-14.657	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-39.682	-27.625	Pass
NVNT	ANT1	802.11g	2462.00	2483.920	-58.033	-26.818	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-40.368	-28.194	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.632	-60.605	-27.843	Pass

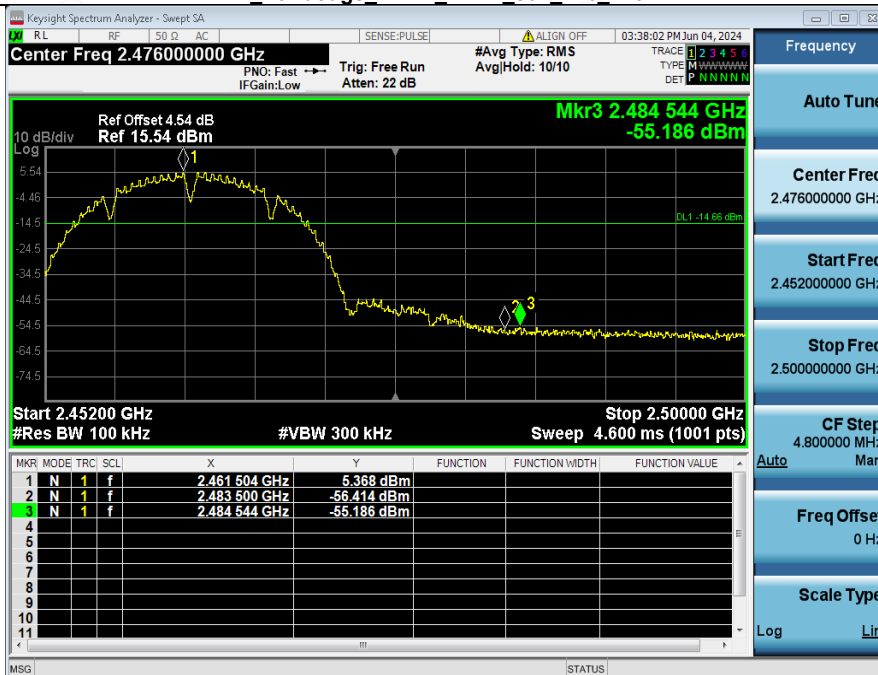


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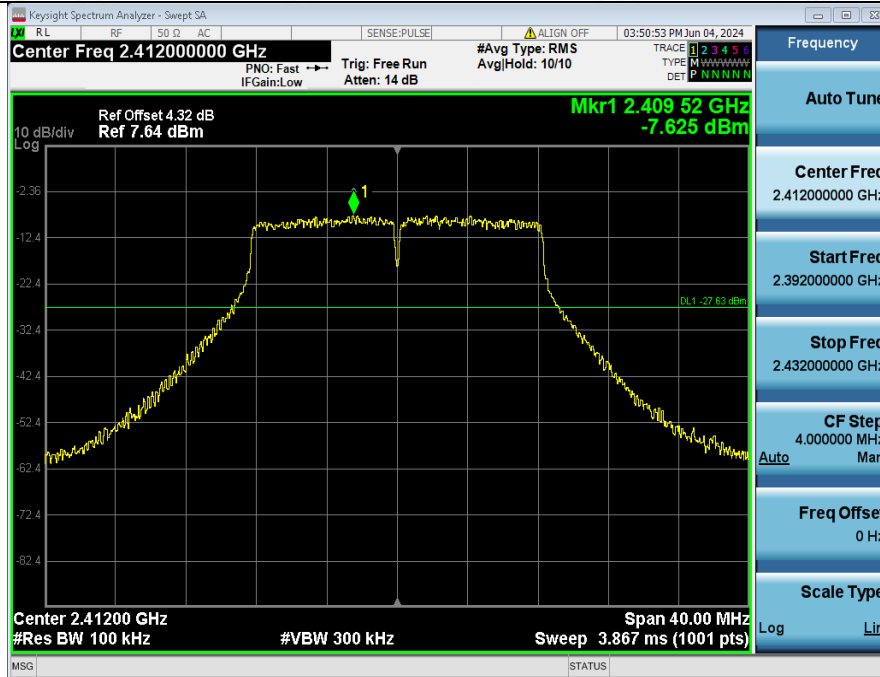


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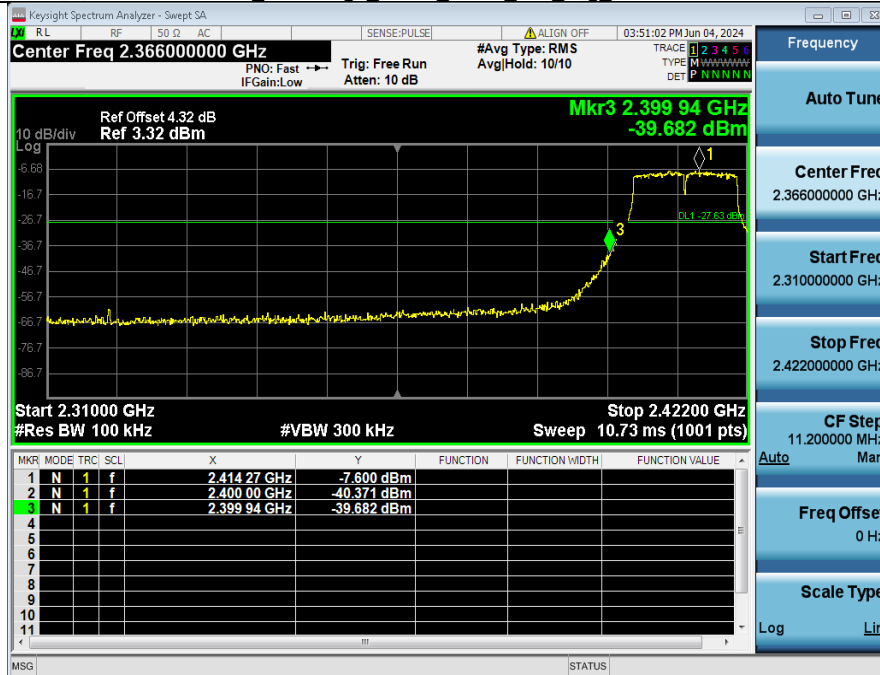


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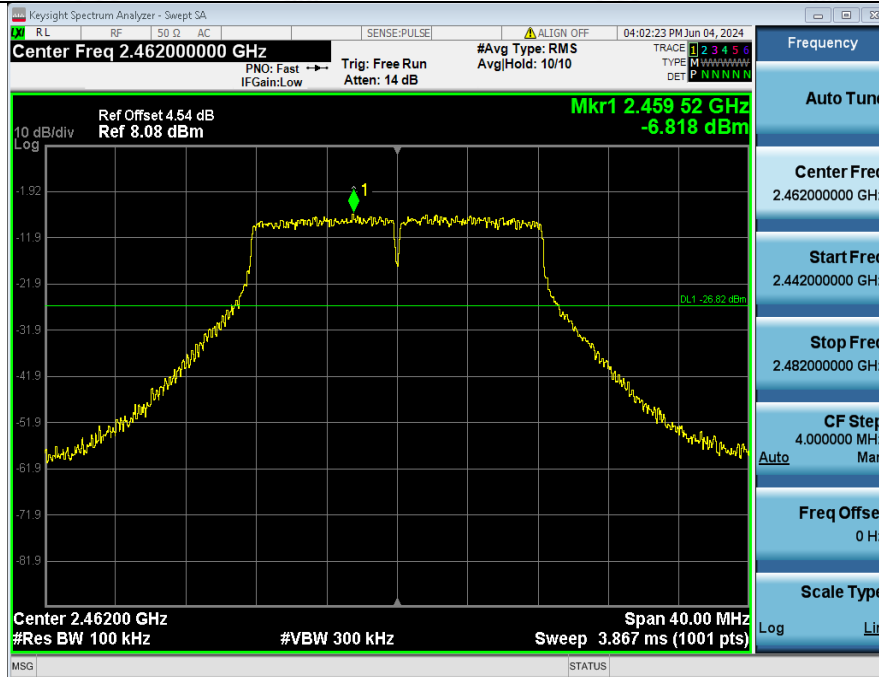


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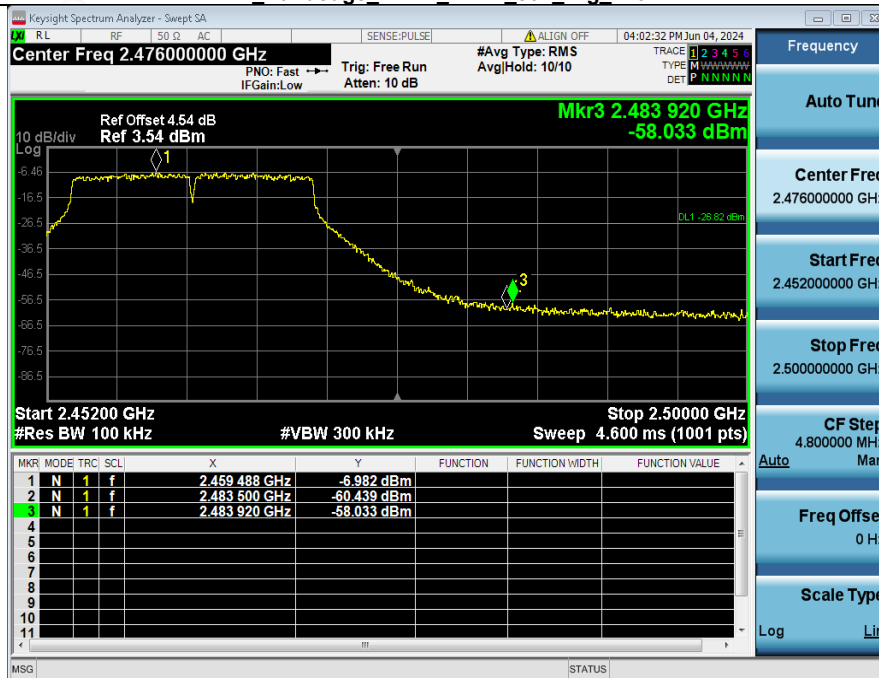


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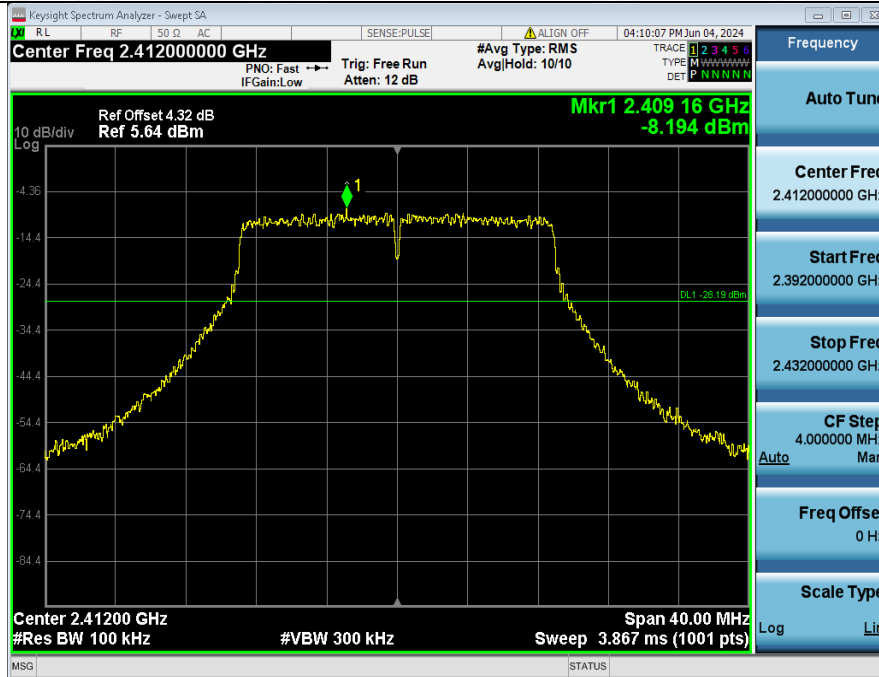


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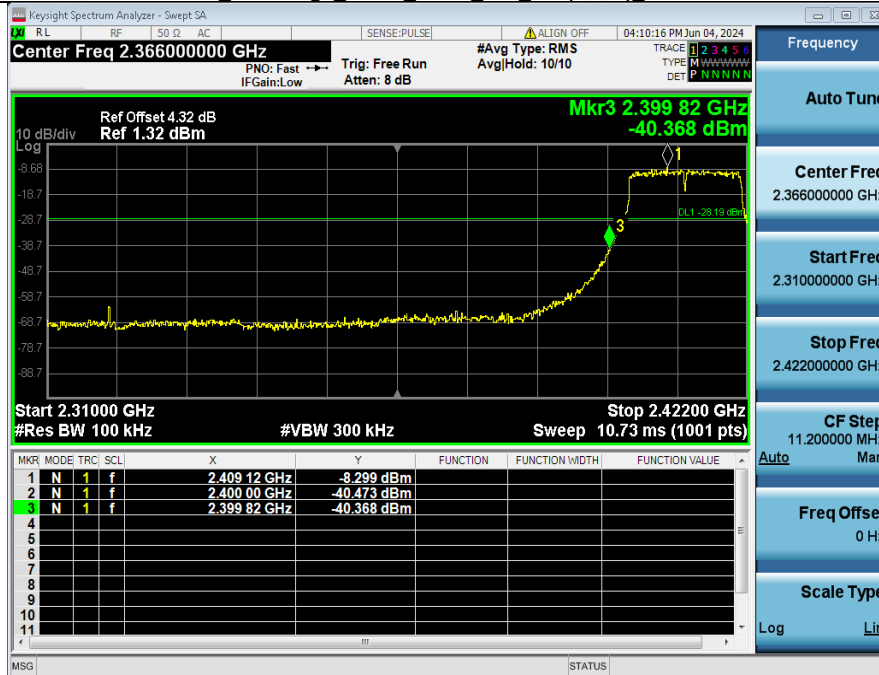


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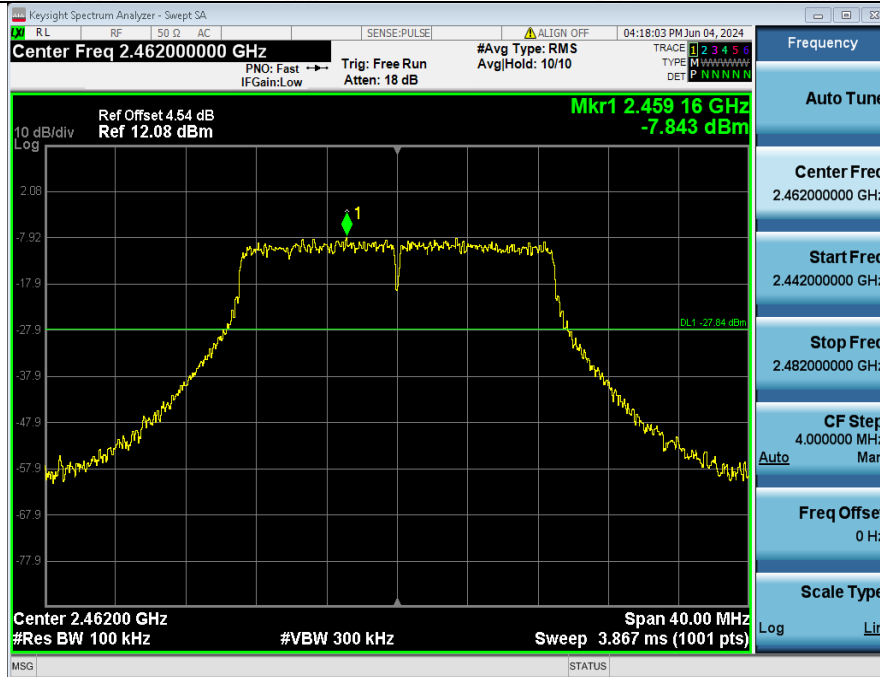


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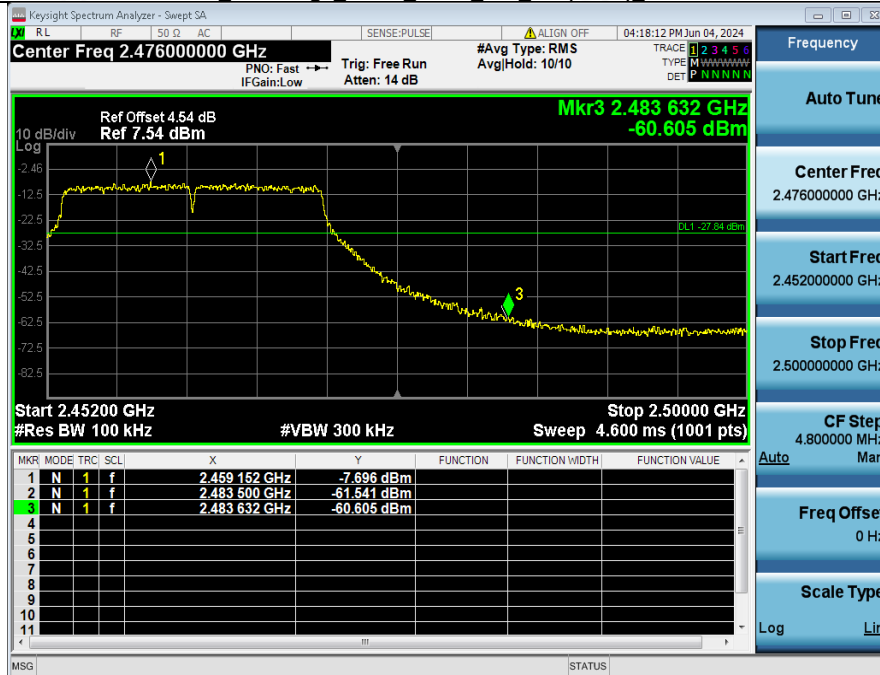


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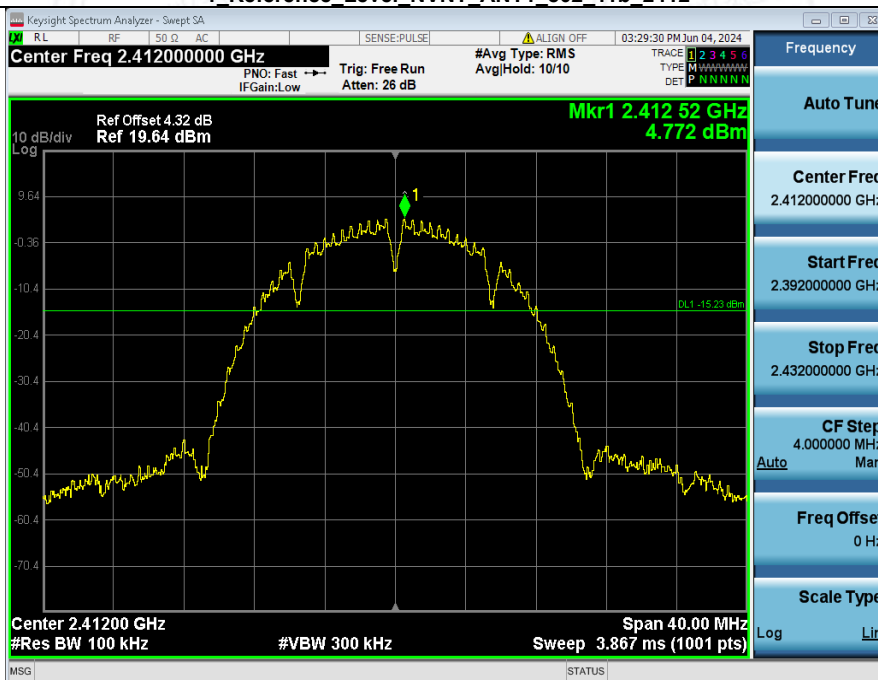
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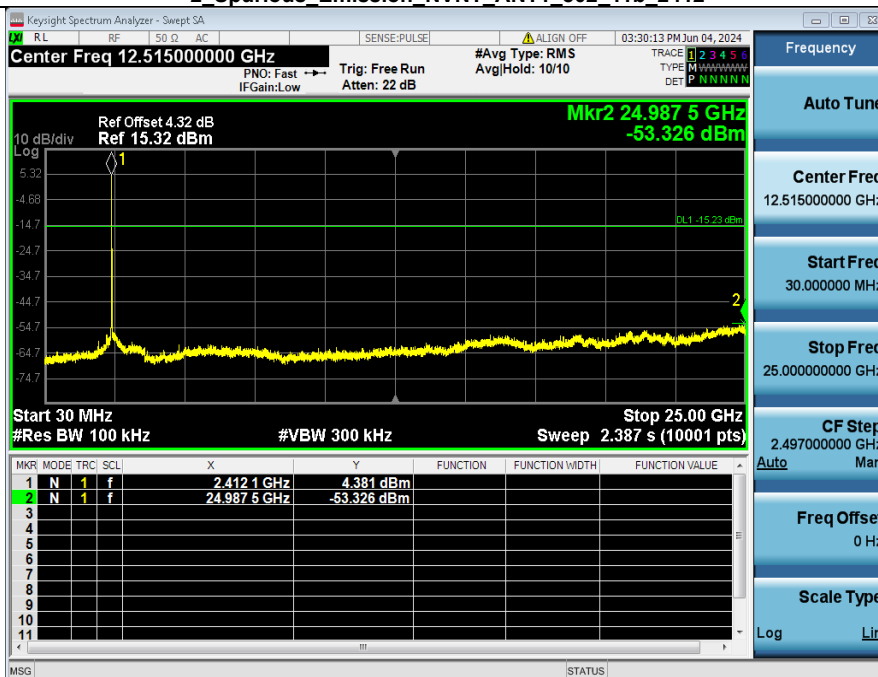
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24987.515	-53.326	-15.228	Pass
NVNT	ANT1	802.11b	2437.00	24720.336	-52.601	-14.799	Pass
NVNT	ANT1	802.11b	2462.00	24772.773	-53.220	-14.657	Pass
NVNT	ANT1	802.11g	2412.00	2559.461	-61.451	-27.625	Pass
NVNT	ANT1	802.11g	2437.00	2591.922	-61.196	-27.224	Pass
NVNT	ANT1	802.11g	2462.00	2559.461	-60.584	-26.818	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2239.845	-64.166	-28.194	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24987.515	-61.419	-27.789	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24797.743	-61.196	-27.843	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



2 Spurious_Emission_NVNT_ANT1_802_11b_2412



1 Reference_Level_NVNT_ANT1_802_11b_2437

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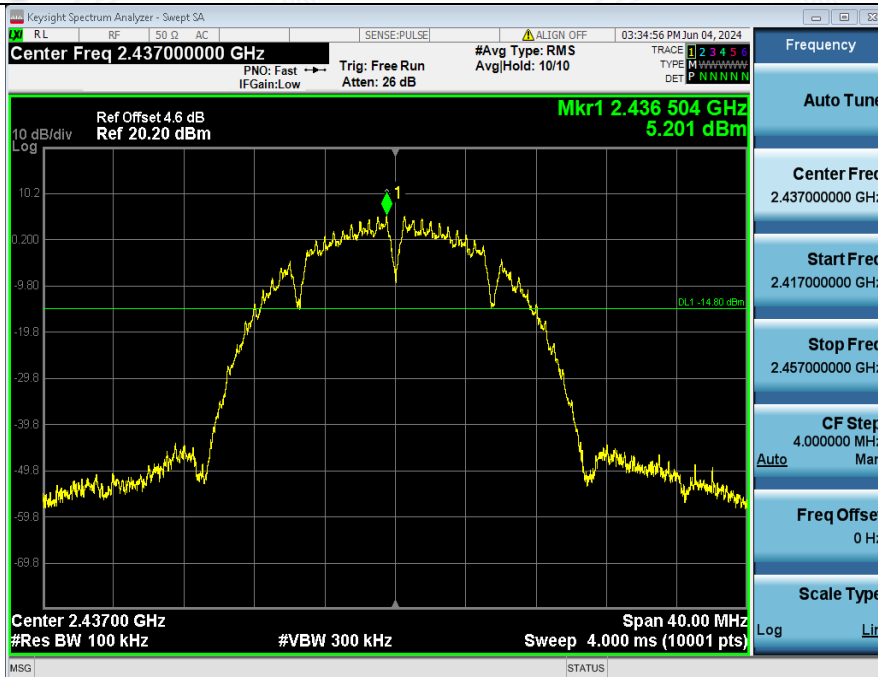
Bao'an District, Shenzhen, Guangdong, China 518104

Tel : +(86)755-2334 4200

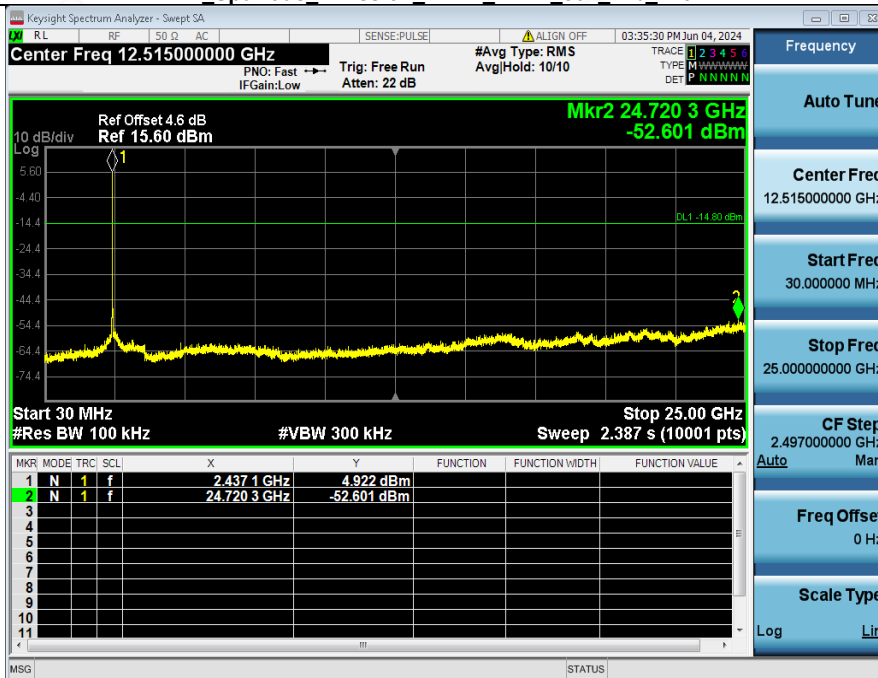
E-mail : Service@btek-lab.com

Web : www.btek-lab.com



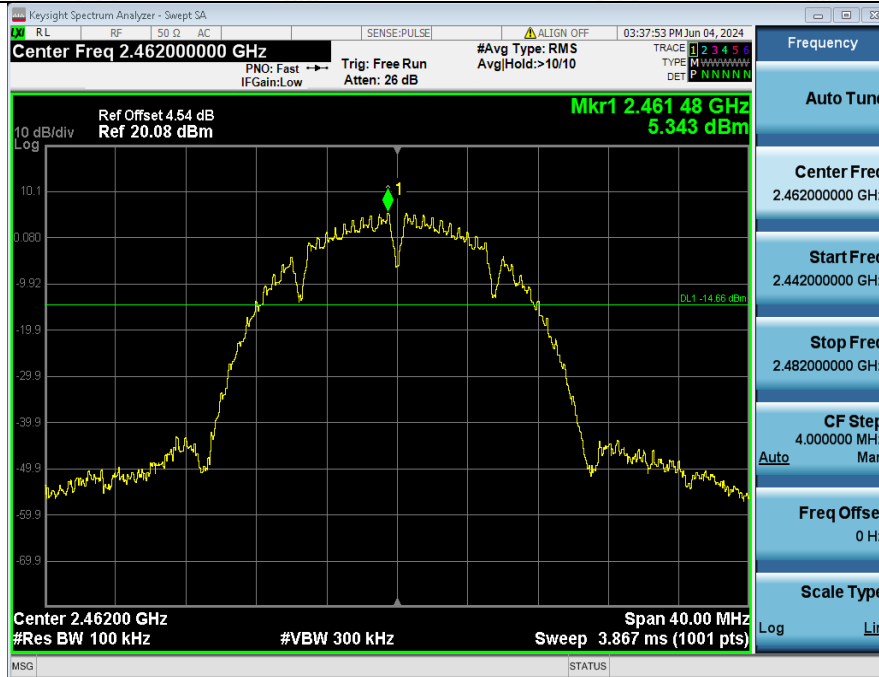


2 Spurious Emission NVNT_ANT1_802_11b_2437

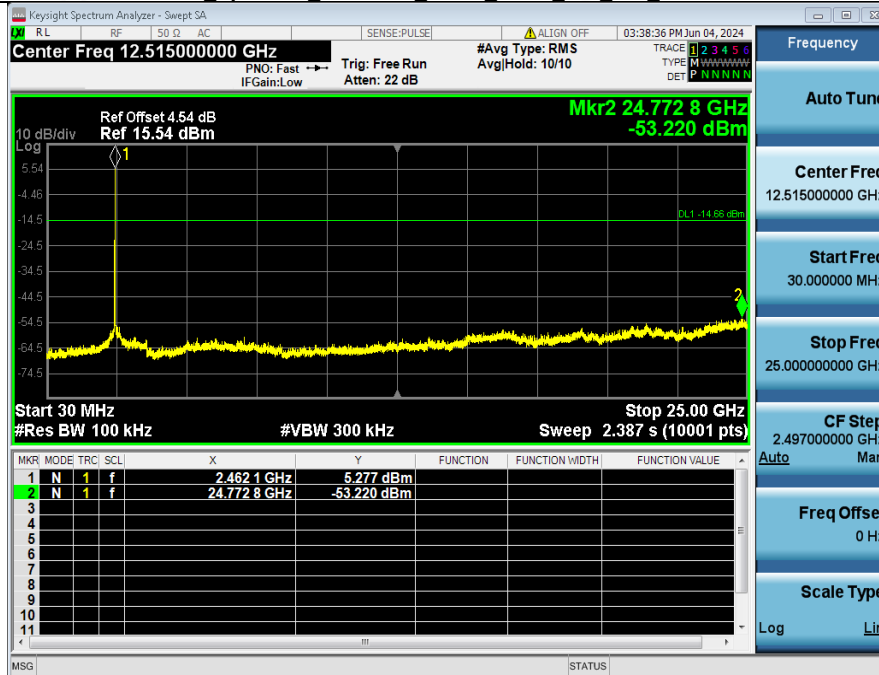


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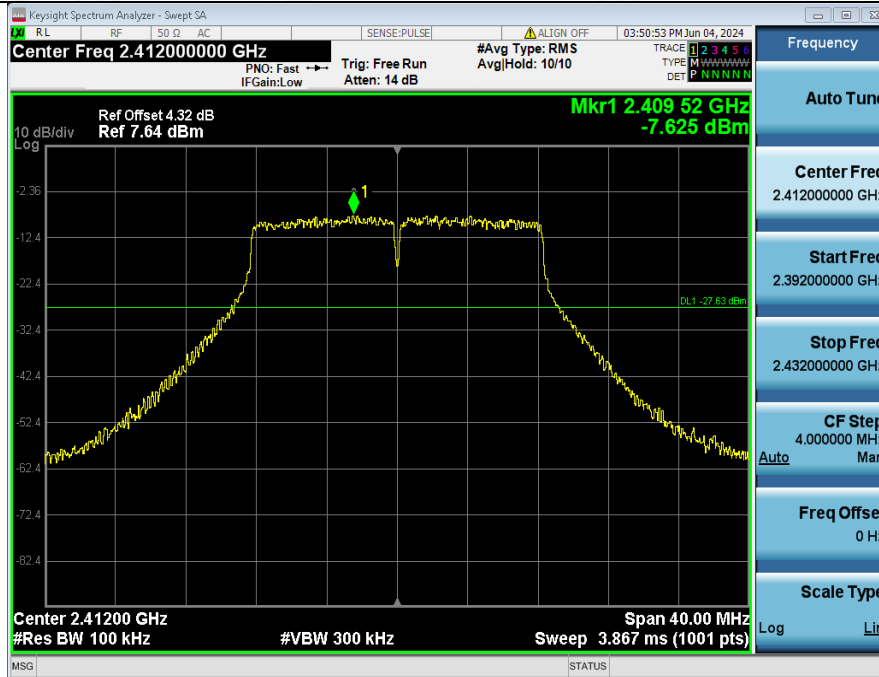


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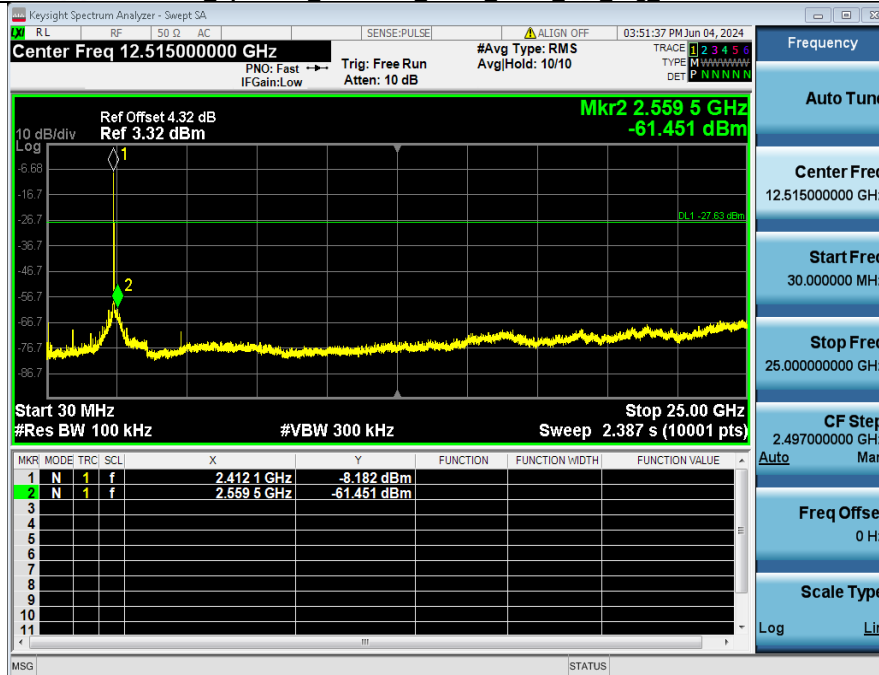


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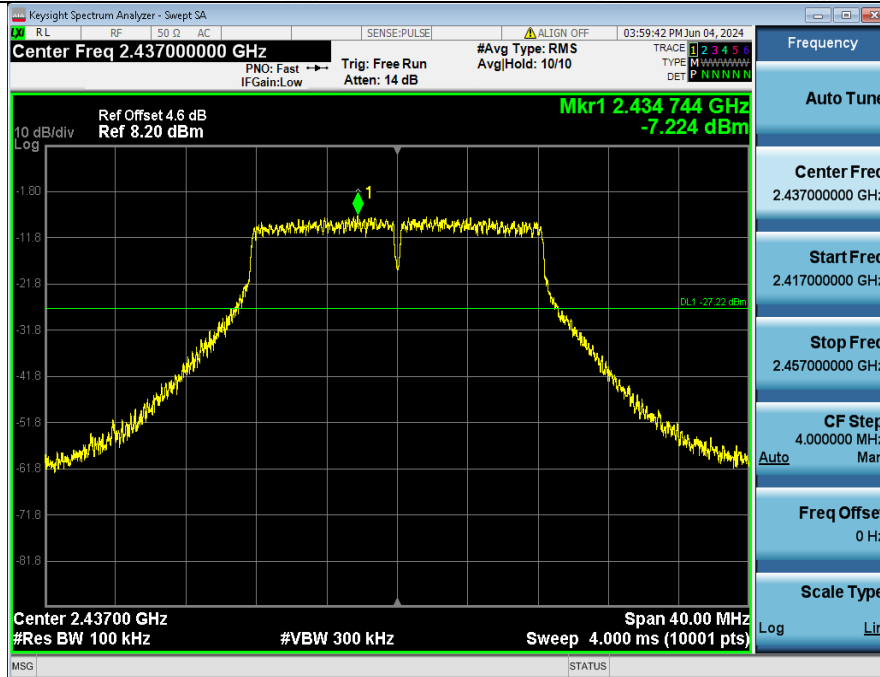


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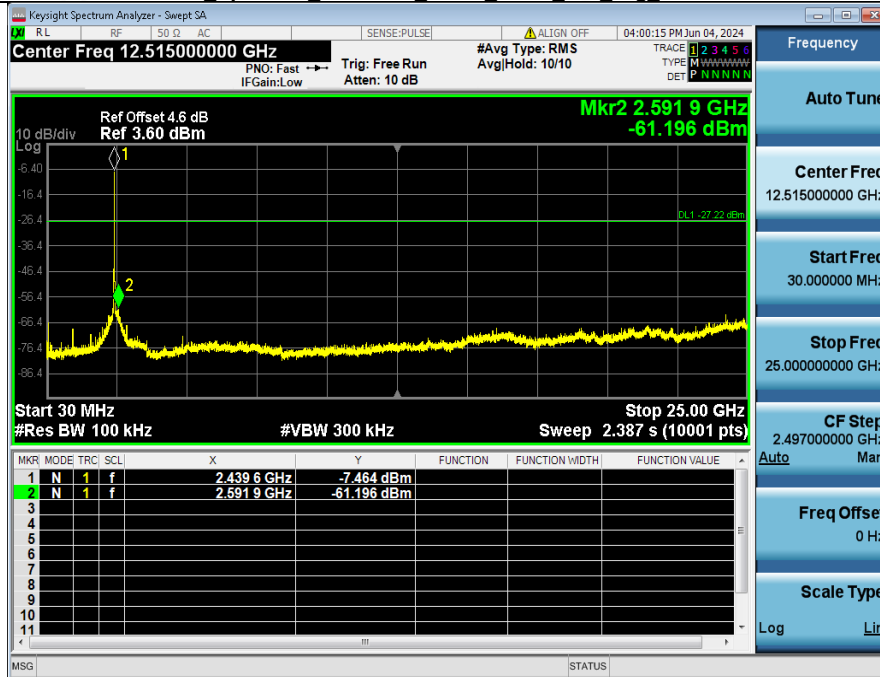


1 Reference Level NVNT_ANT1_802_11g_2437



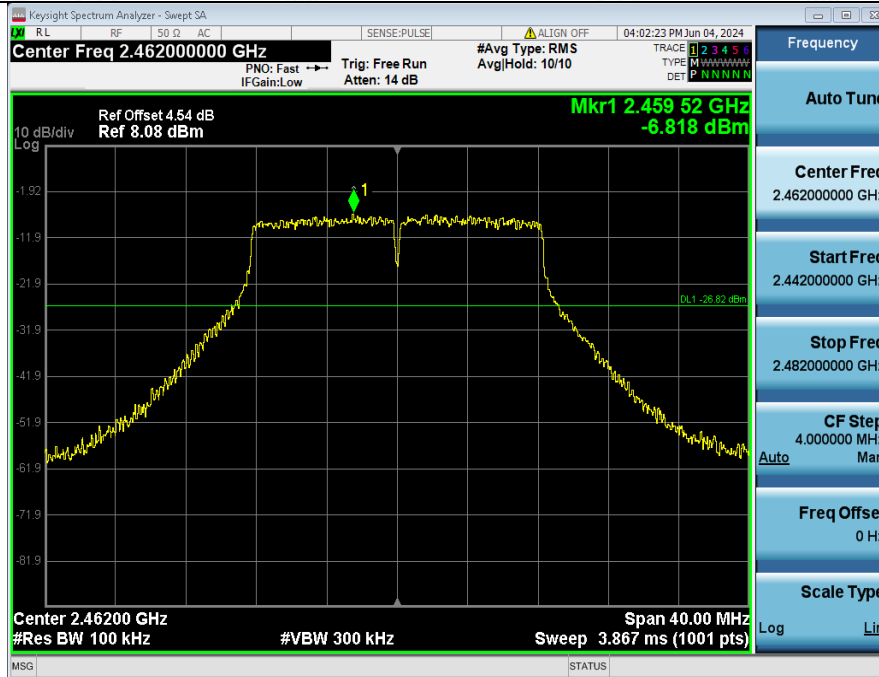


2 Spurious Emission NVNT_ANT1_802_11g_2437

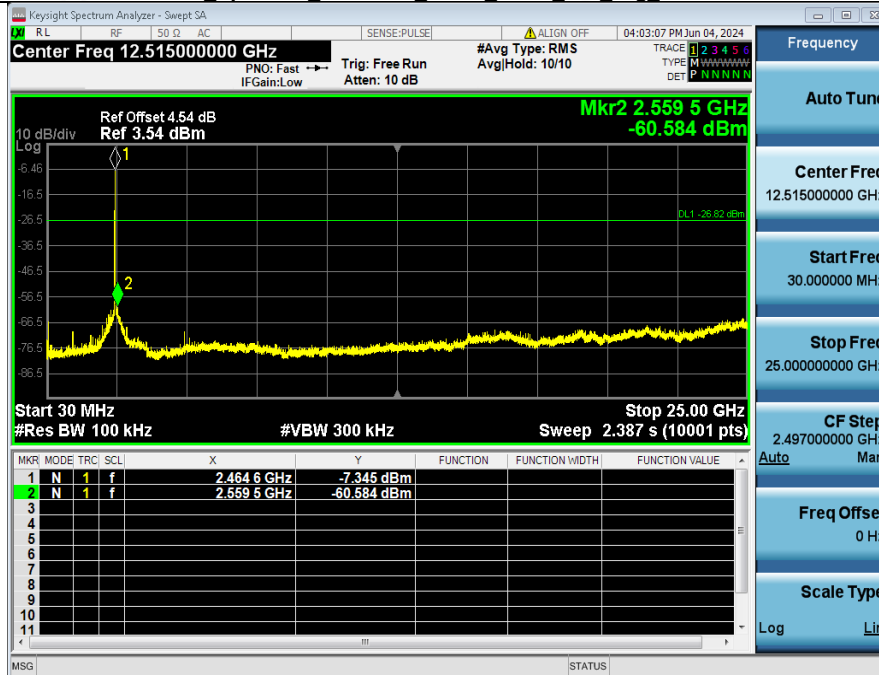


1 Reference Level NVNT_ANT1_802_11g_2462



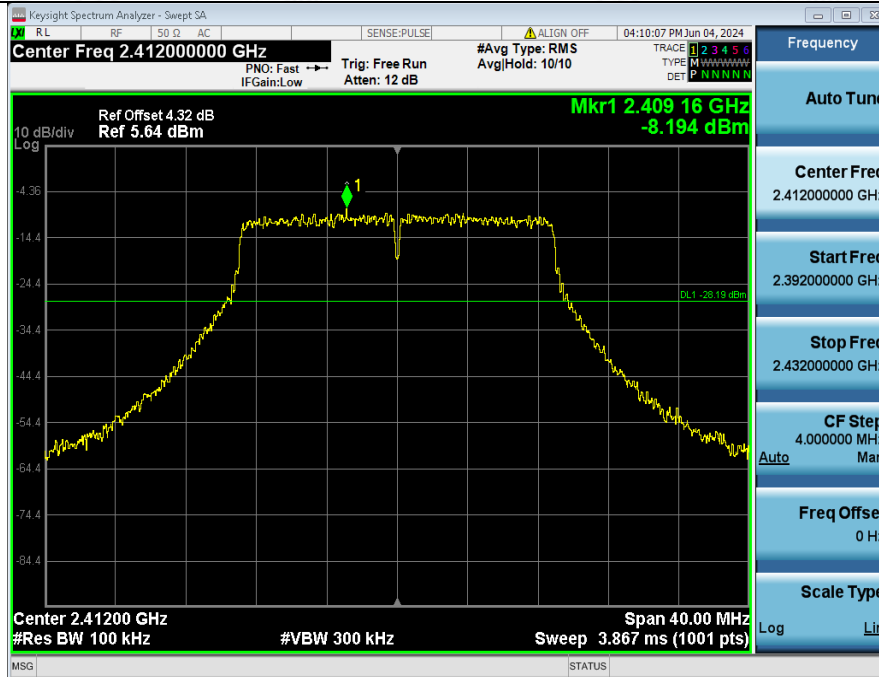


2 Spurious Emission NVNT_ANT1_802_11g_2462

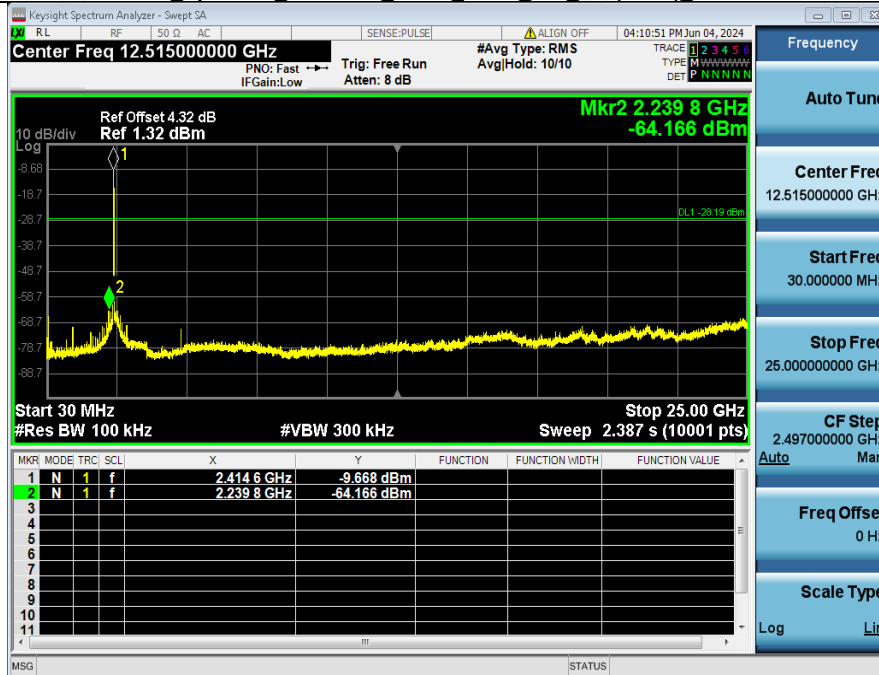


1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



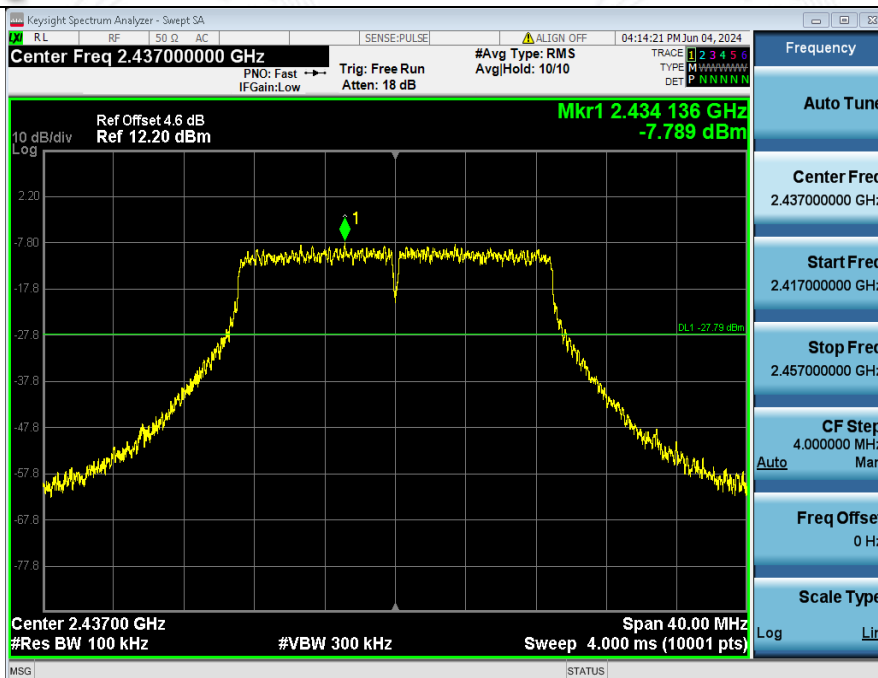


2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412

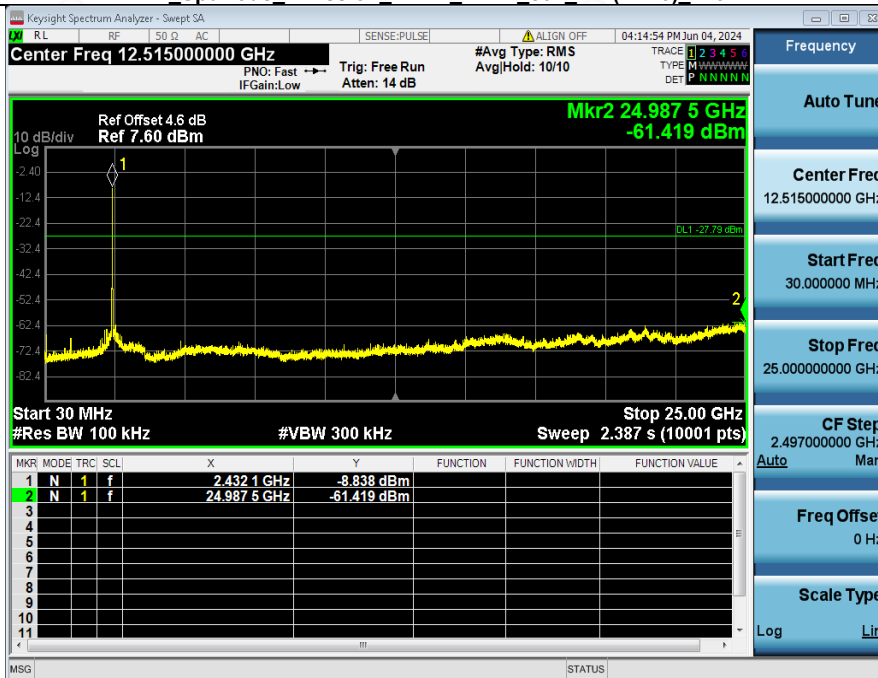


1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



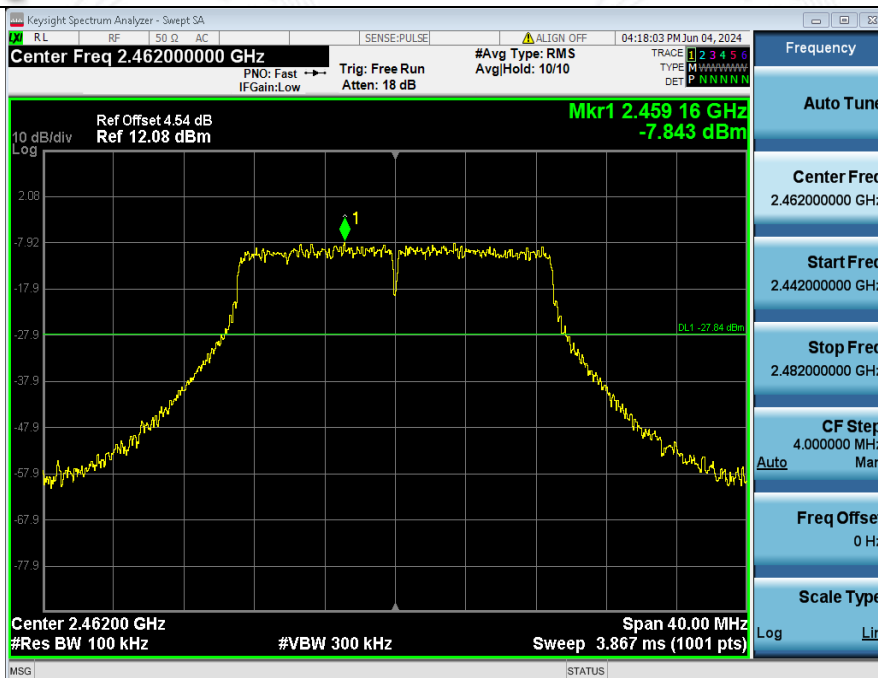


2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462





2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462

