

FCC ID WIFI 2.4
FCC_2.4G_WIFI (Part15.247) Test Data
Report No.: NCT26012595E1-1
FCC ID: 2BVEE-BW-303Y-DC

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1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.17	500	Pass
NVNT	ANT1	802.11b	2437.00	9.17	500	Pass
NVNT	ANT1	802.11b	2462.00	9.20	500	Pass
NVNT	ANT1	802.11g	2412.00	16.40	500	Pass
NVNT	ANT1	802.11g	2437.00	16.39	500	Pass
NVNT	ANT1	802.11g	2462.00	16.50	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.33	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.24	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.45	500	Pass



-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

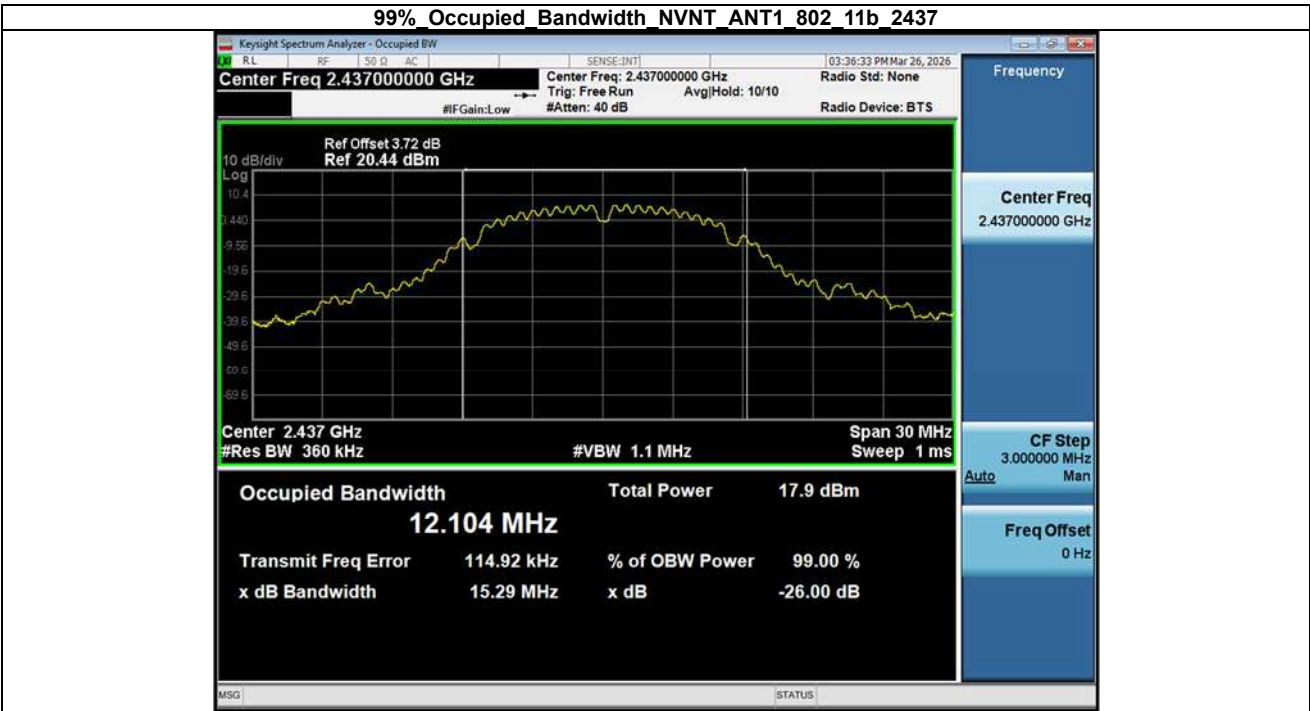


-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	11.946
NVNT	ANT1	802.11b	2437.00	12.104
NVNT	ANT1	802.11b	2462.00	12.030
NVNT	ANT1	802.11g	2412.00	17.108
NVNT	ANT1	802.11g	2437.00	18.397
NVNT	ANT1	802.11g	2462.00	17.647
NVNT	ANT1	802.11n(HT20)	2412.00	17.744
NVNT	ANT1	802.11n(HT20)	2437.00	18.076
NVNT	ANT1	802.11n(HT20)	2462.00	18.019



99% Occupied Bandwidth NVNT ANT1_802_11g_2437



99% Occupied Bandwidth NVNT ANT1_802_11g_2462

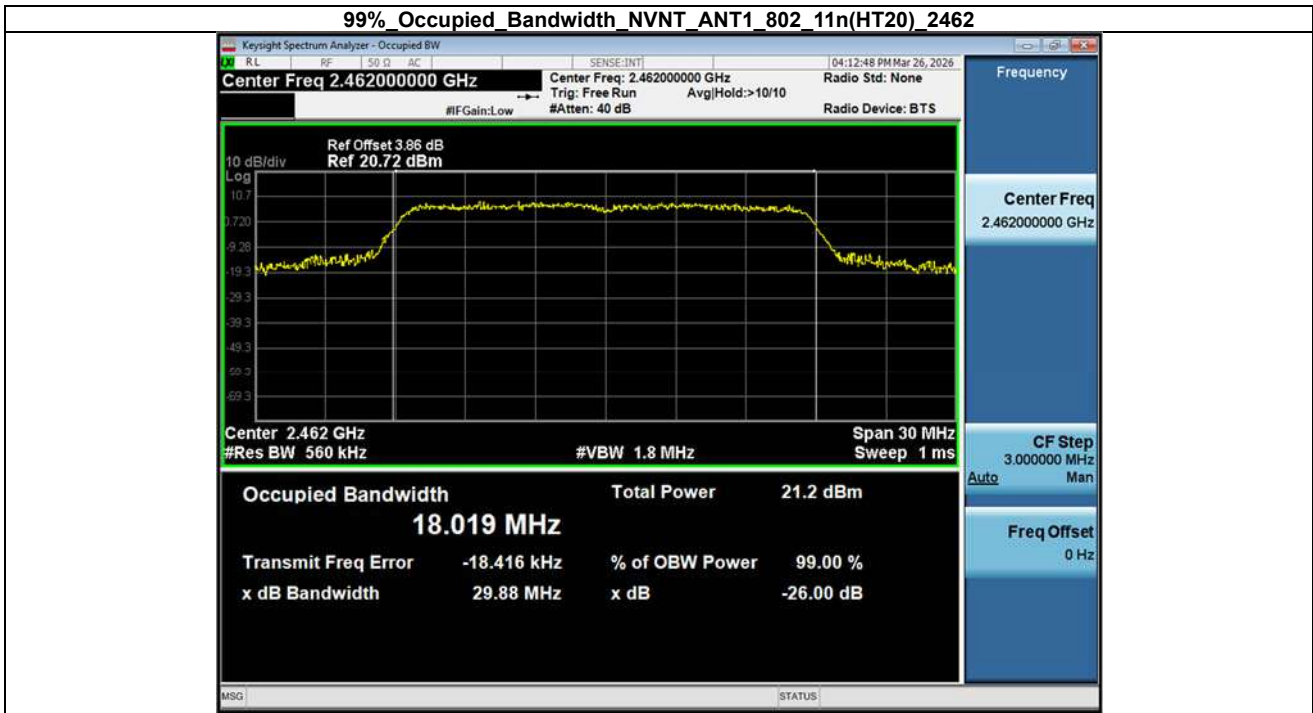


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



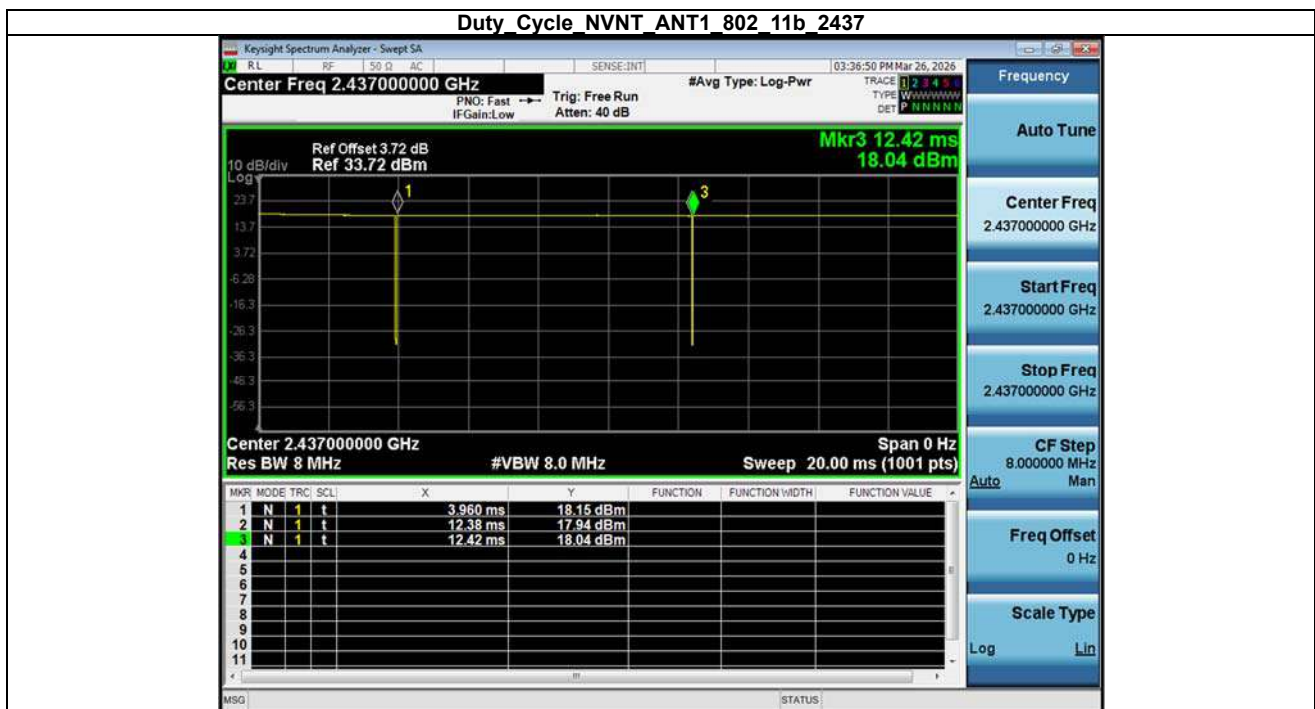
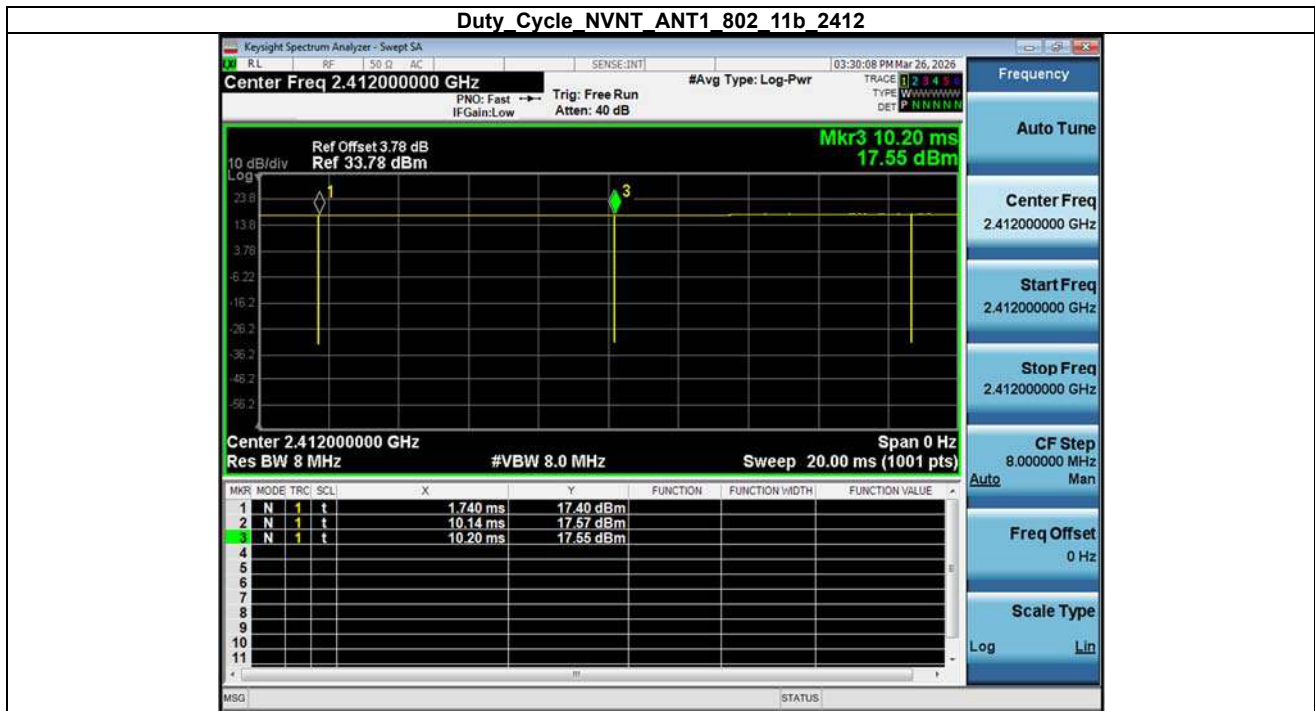
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437





3. Duty Cycle

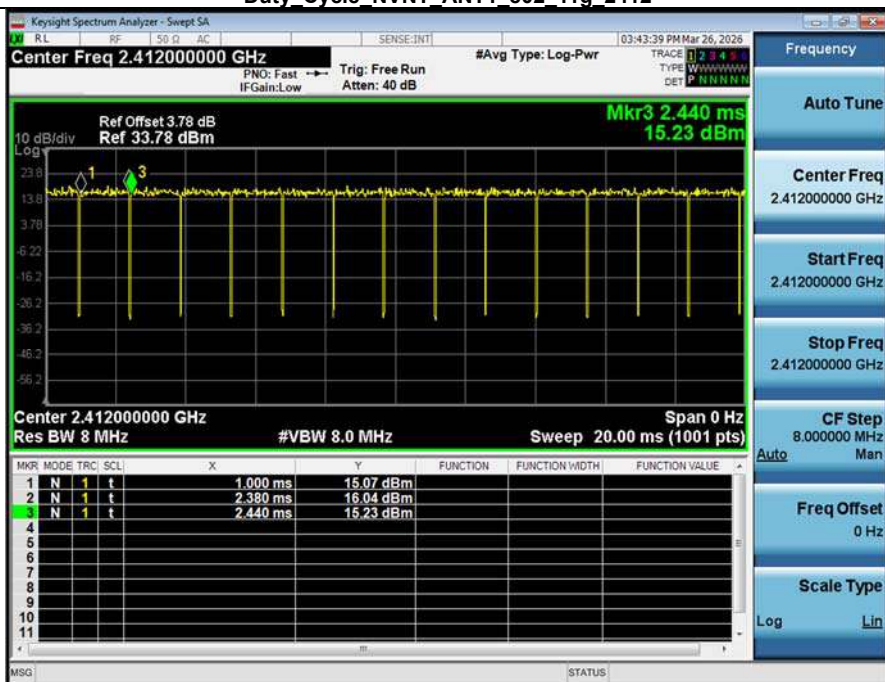
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.22	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	98.61	0.00
NVNT	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	96.77	0.14



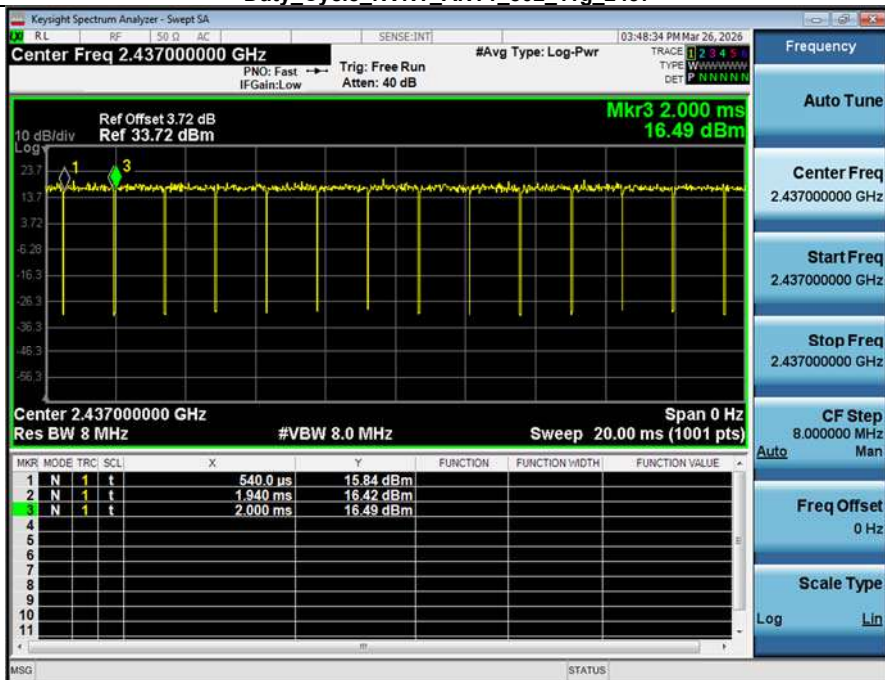
Duty Cycle NVNT ANT1_802_11b_2462



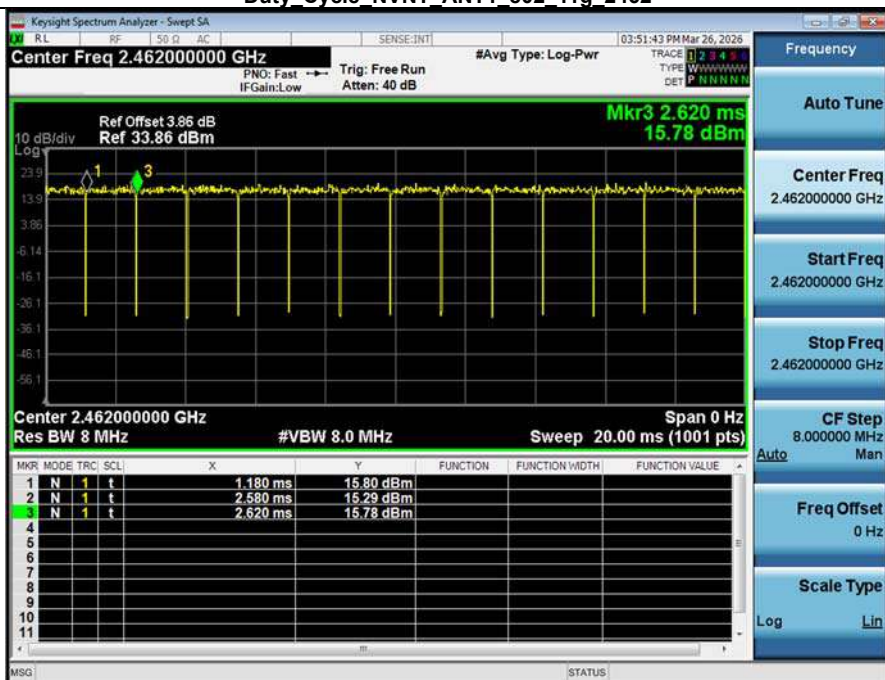
Duty Cycle NVNT ANT1_802_11g_2412



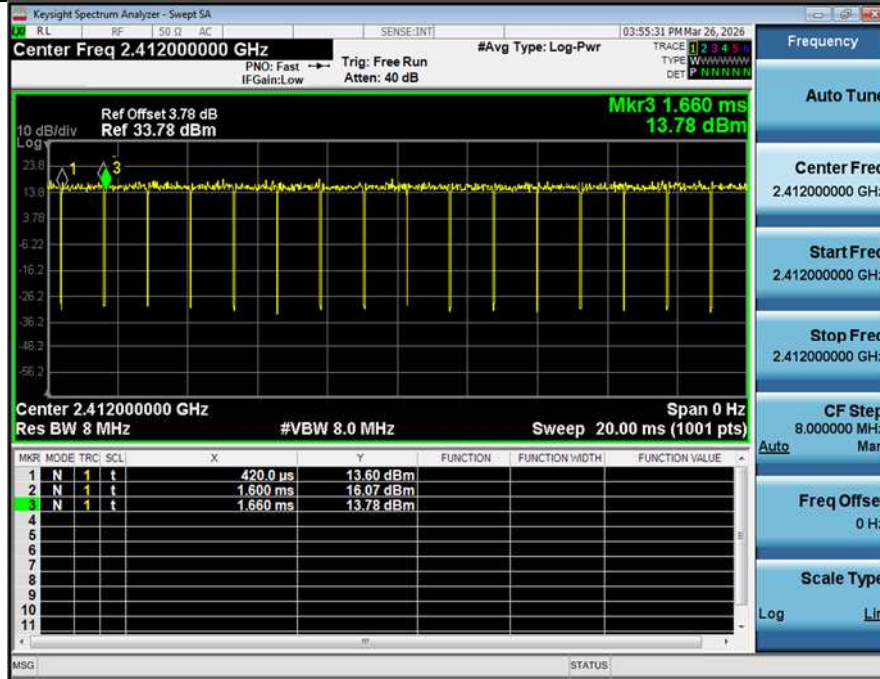
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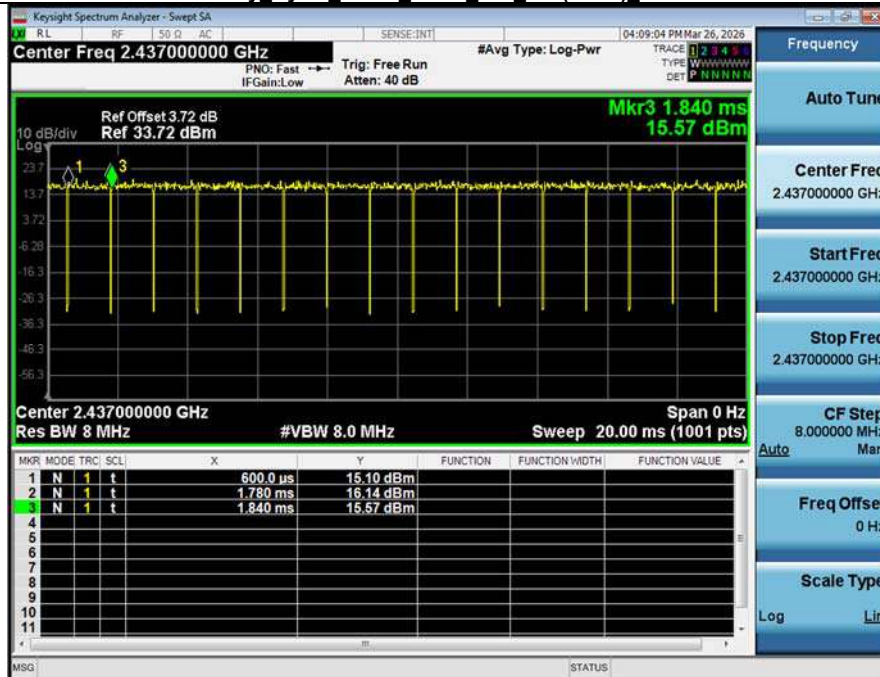
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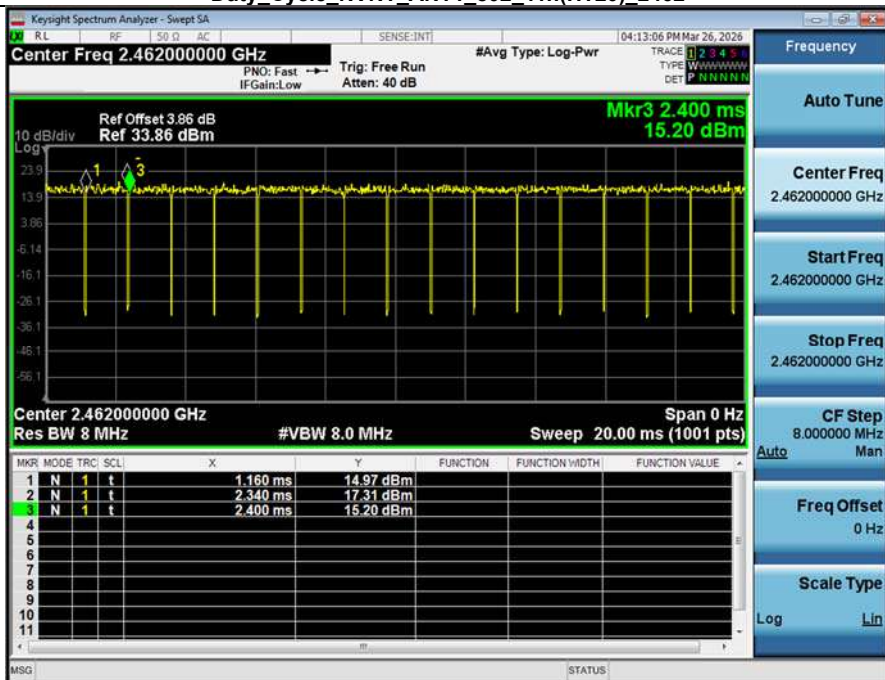
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



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	17.09	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.34	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	19.11	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	20.19	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	20.35	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	19.37	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	20.42	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	20.65	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.25	-10.00	-8.75	8	Pass
NVNT	ANT1	802.11b	2437.00	2.57	-10.00	-7.43	8	Pass
NVNT	ANT1	802.11b	2462.00	2.38	-10.00	-7.62	8	Pass
NVNT	ANT1	802.11g	2412.00	-3.25	-10.00	-13.25	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.27	-10.00	-11.27	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.23	-10.00	-12.23	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.81	-10.00	-13.81	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-2.66	-10.00	-12.66	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.79	-10.00	-12.79	8	Pass



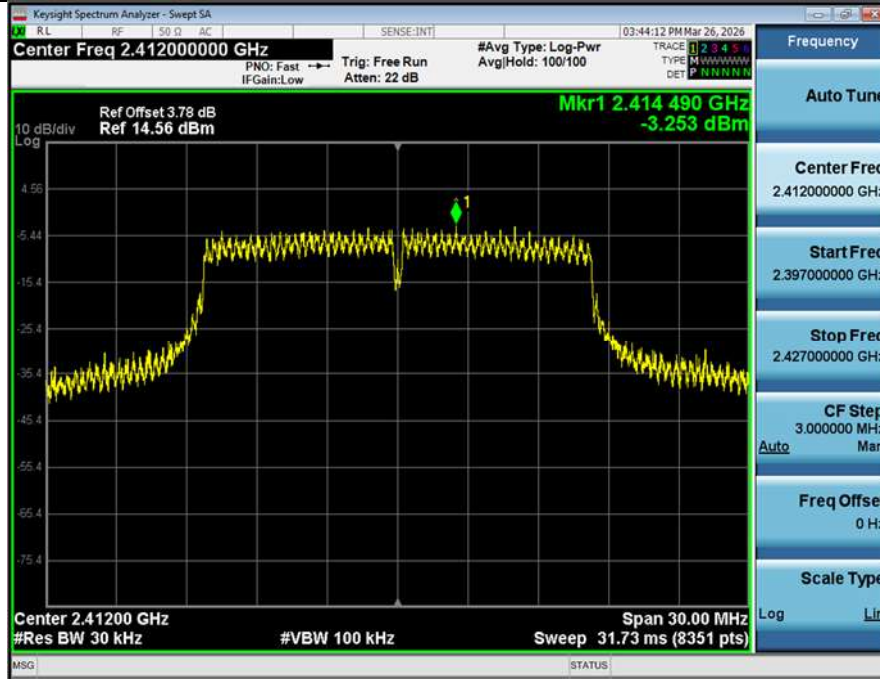
Power Spectral Density NVNT_ANT1_802_11b_2437



Power Spectral Density NVNT ANT1_802_11b_2462



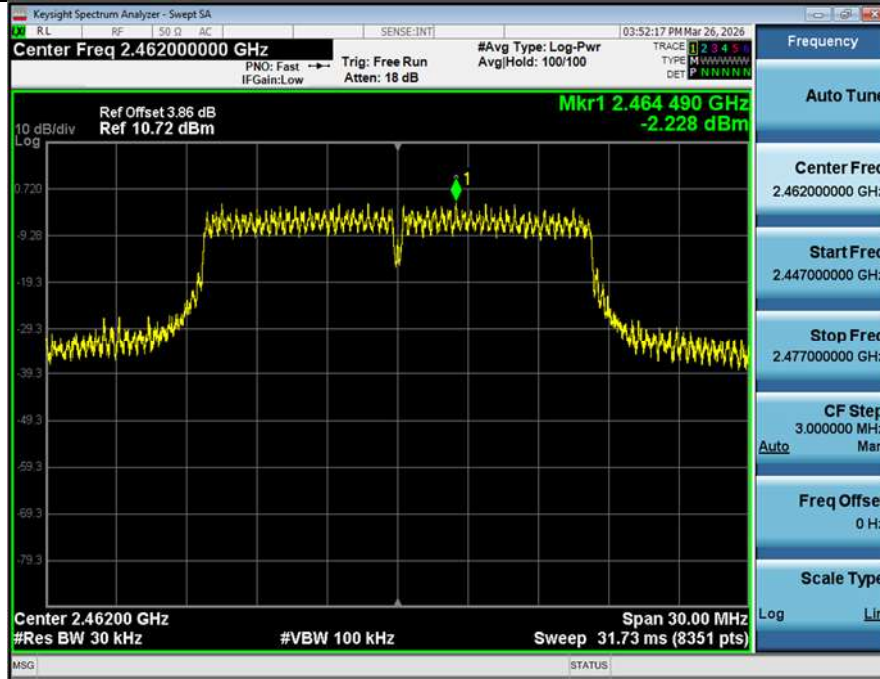
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Power Spectral Density NVNT_ANT1_802_11g_2437



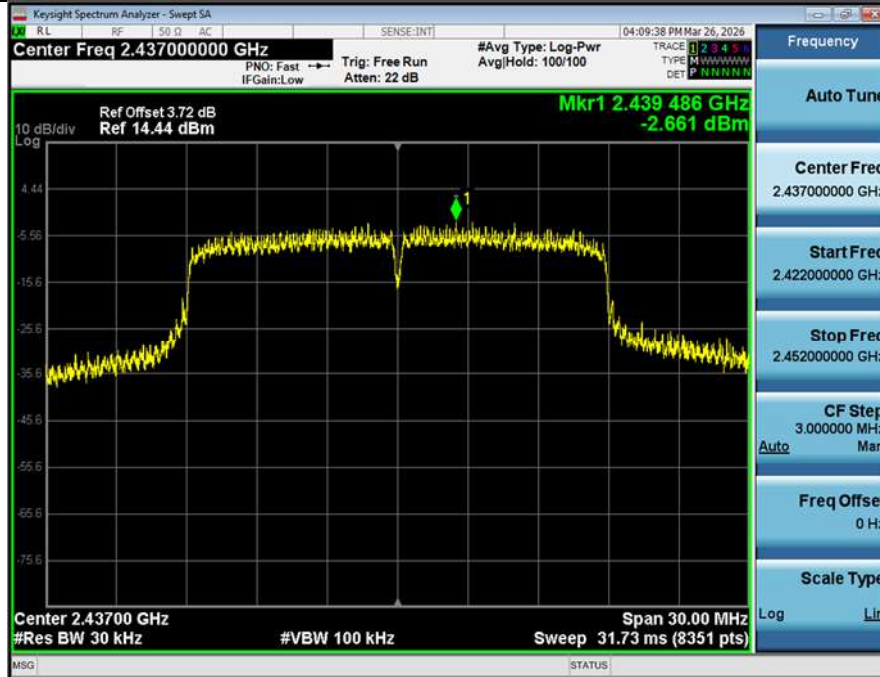
Power Spectral Density NVNT_ANT1_802_11g_2462



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



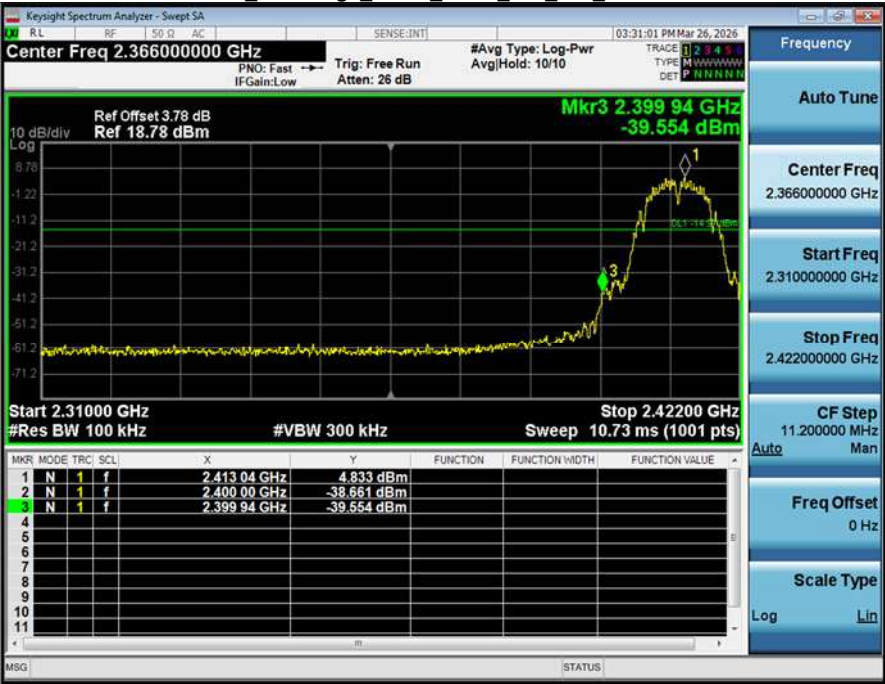
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	5.031	-39.554	-14.969	Pass
NVNT	ANT1	802.11b	2462.00	2484.928	6.352	-54.992	-13.648	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	1.148	-26.074	-18.852	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	2.369	-37.421	-17.631	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	0.387	-28.994	-19.613	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	1.986	-37.086	-18.014	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2398.176	-1.145	-29.741	-21.145	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.836	-1.140	-35.323	-21.140	Pass

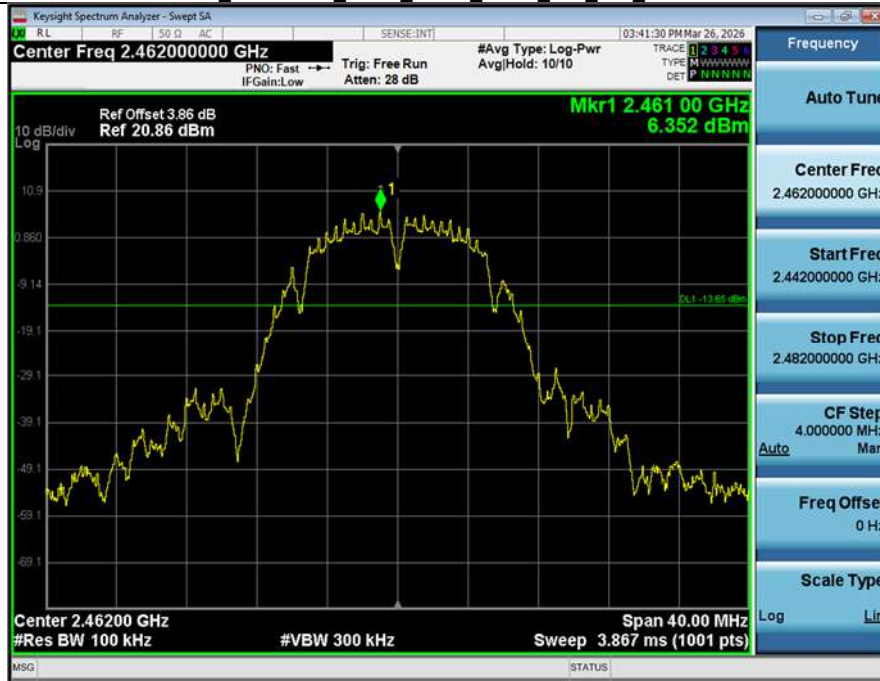
1 Reference Level NVNT_ANT1 802 11b 2412



2 Bandedge_NVNT_ANT1 802 11b 2412



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



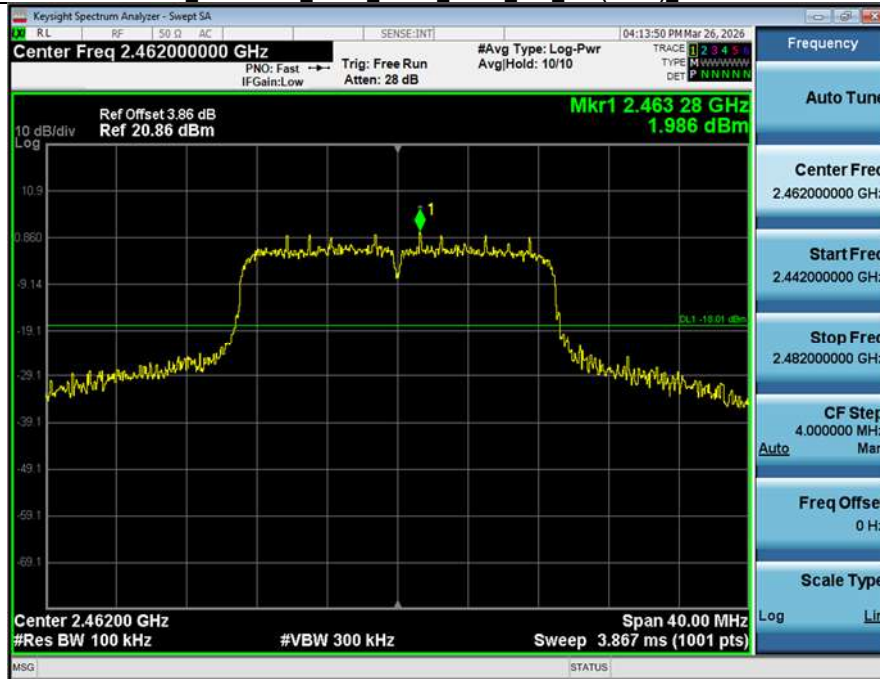
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2 Bandedge NVNT_ANT1_802_11n(HT20)_2412



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



2 Bandedge NVNT_ANT1_802_11n(HT20)_2462



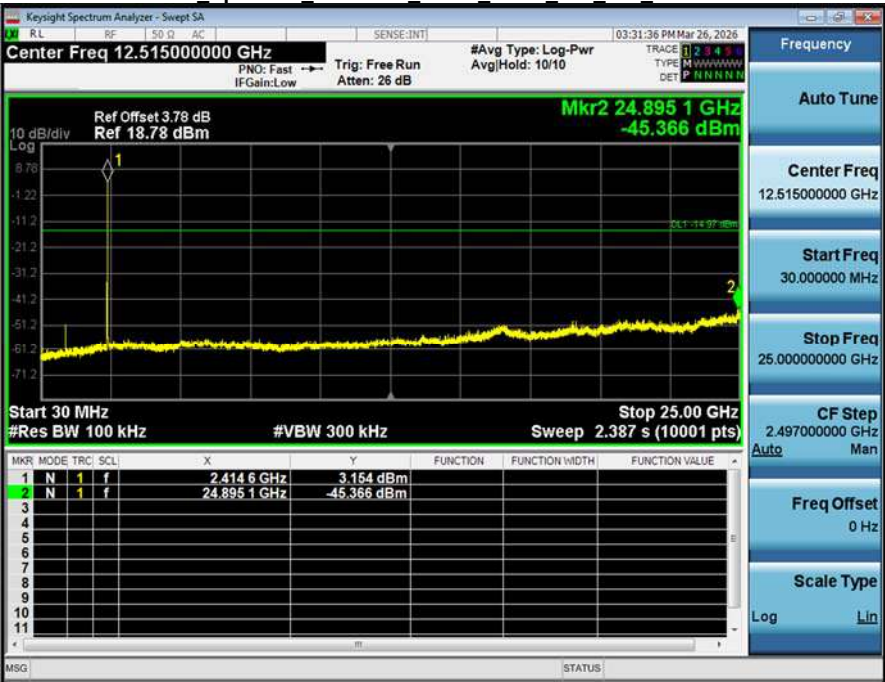
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24895.126	5.031	-45.366	-14.969	Pass
NVNT	ANT1	802.11b	2437.00	24972.533	6.156	-40.360	-13.844	Pass
NVNT	ANT1	802.11b	2462.00	24967.539	6.352	-43.864	-13.648	Pass
NVNT	ANT1	802.11g	2412.00	24965.042	1.148	-43.740	-18.852	Pass
NVNT	ANT1	802.11g	2437.00	24488.115	2.922	-47.617	-17.078	Pass
NVNT	ANT1	802.11g	2462.00	24965.042	2.369	-47.836	-17.631	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	911.441	0.387	-24.656	-19.613	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	913.938	1.847	-42.128	-18.153	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24535.558	1.986	-43.621	-18.014	Pass

1 Reference Level NVNT_ANT1_802_11b_2412



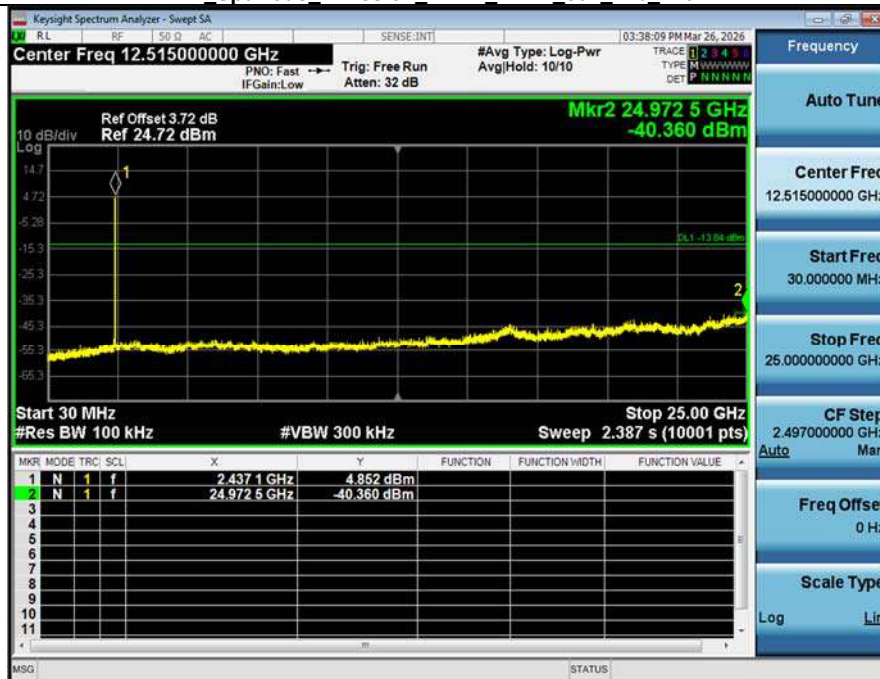
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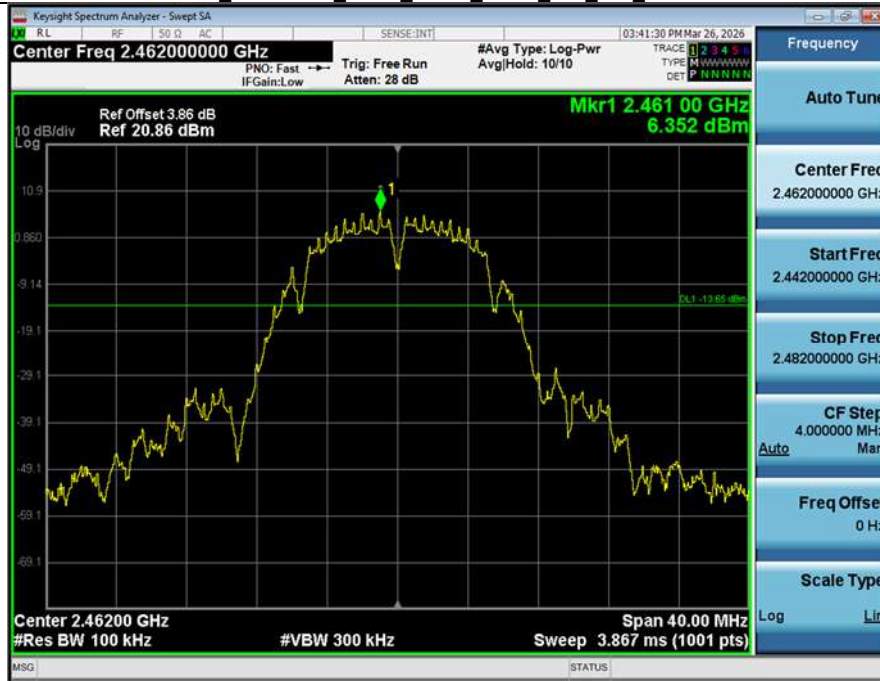
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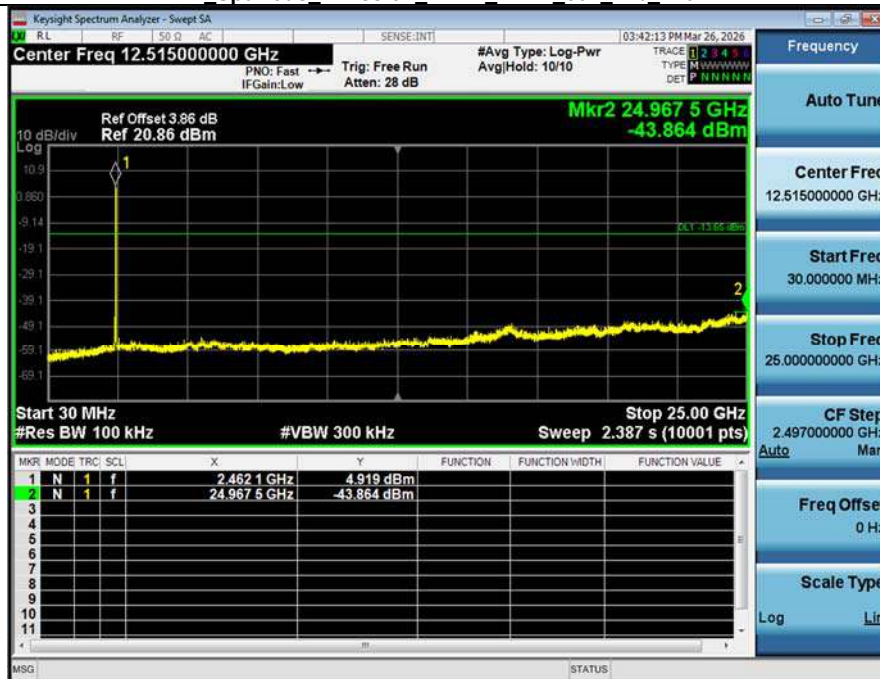
2 Spurious Emission NVNT ANT1 802 11b 2437



1 Reference Level NVNT ANT1 802 11b 2462



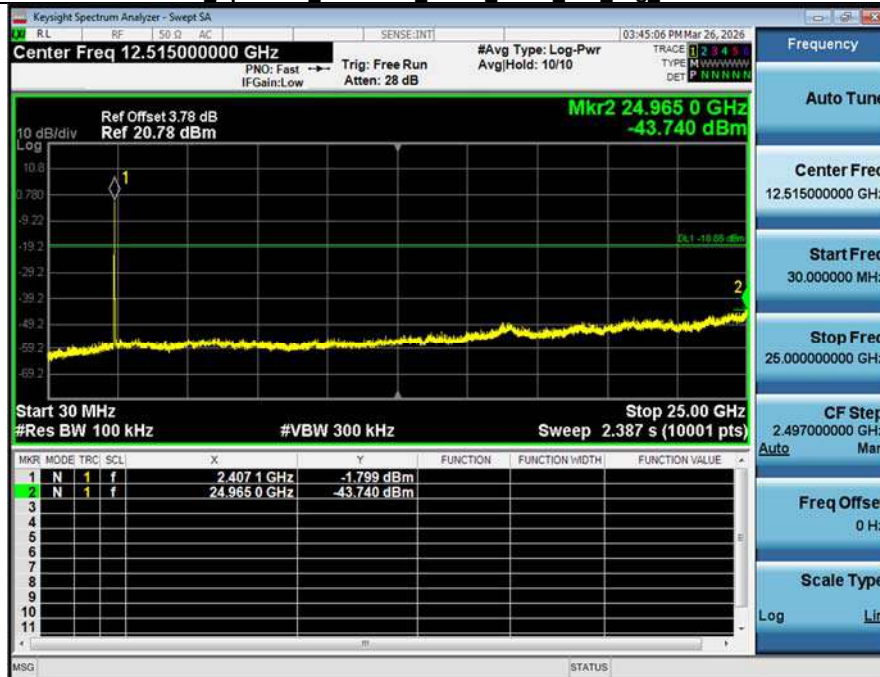
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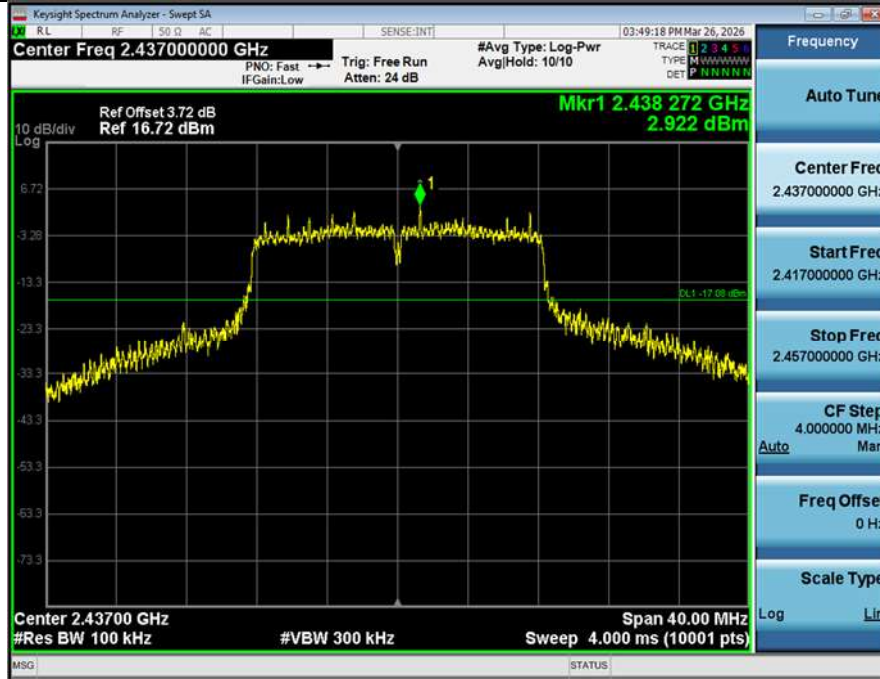
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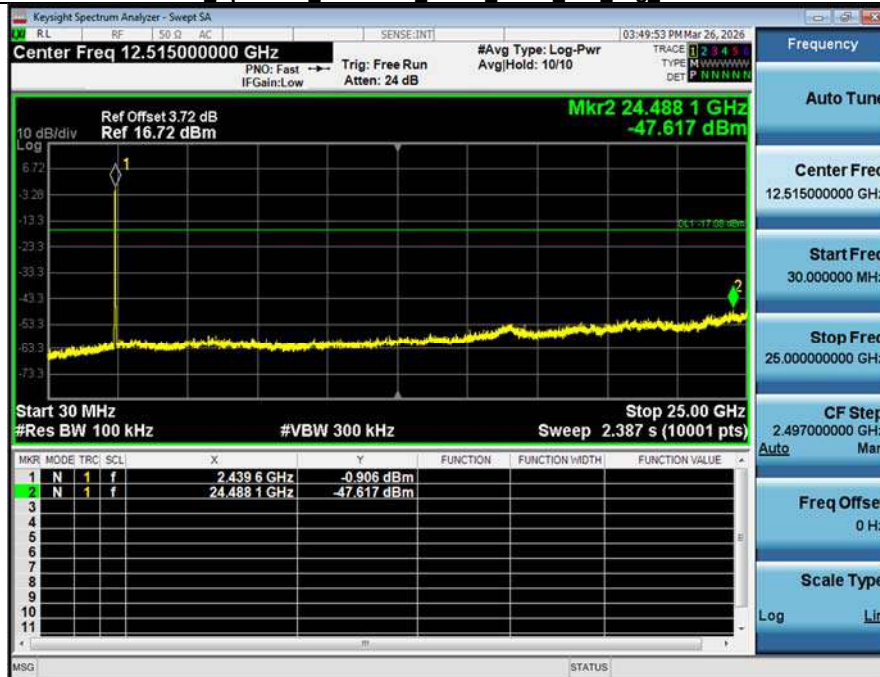
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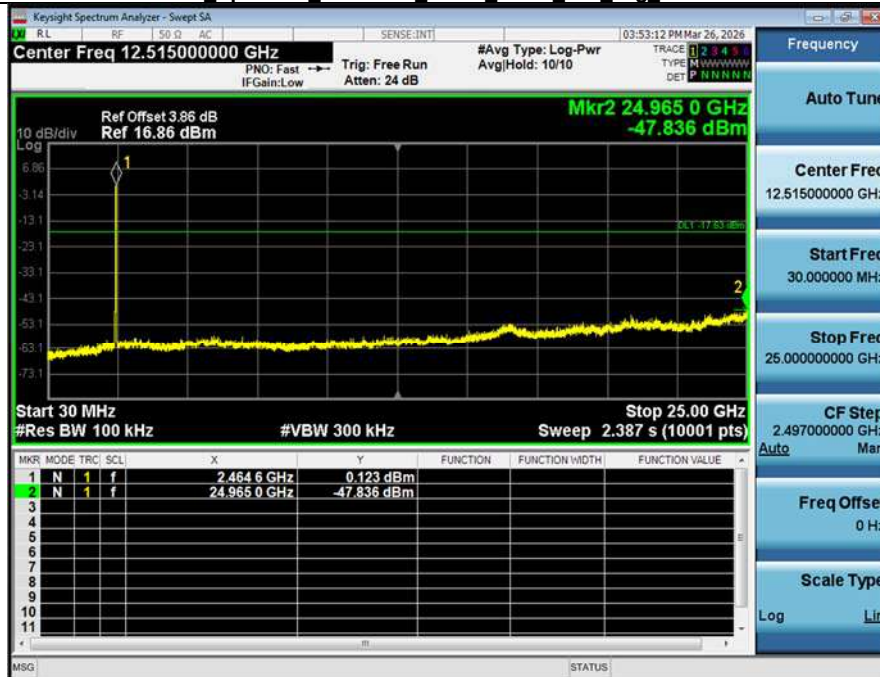
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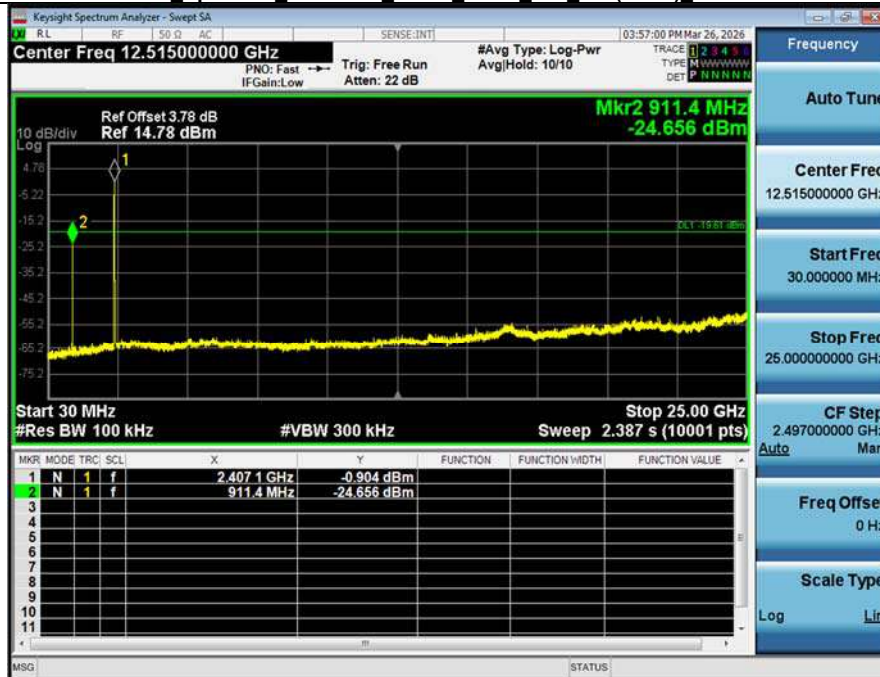
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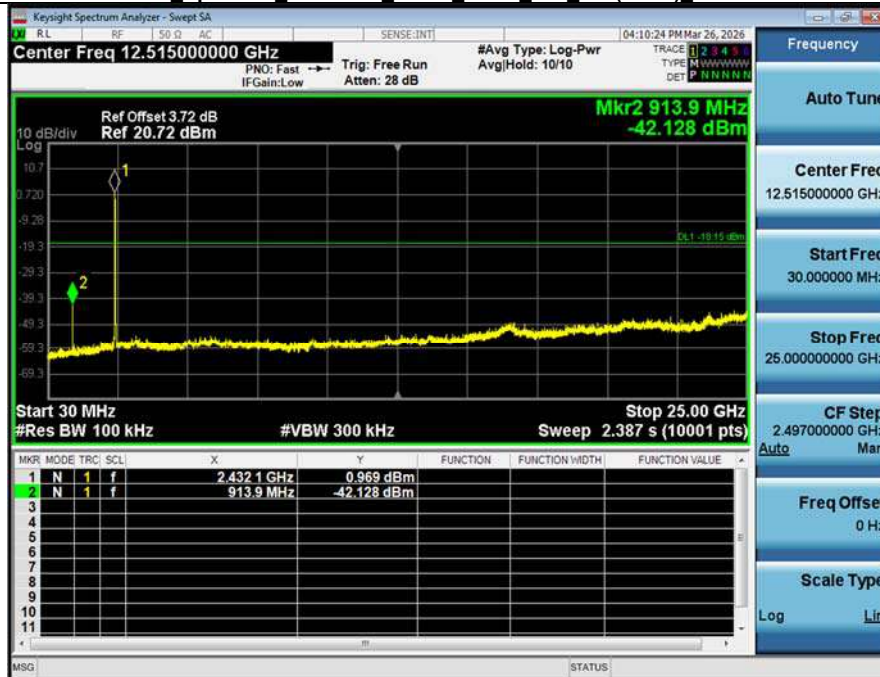
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1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



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

