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FCC/IC WIFI2.4

Test Data

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.55	500	Pass
NVNT	ANT1	802.11b	2437.00	8.55	500	Pass
NVNT	ANT1	802.11b	2462.00	8.59	500	Pass
NVNT	ANT1	802.11g	2412.00	15.59	500	Pass
NVNT	ANT1	802.11g	2437.00	16.12	500	Pass
NVNT	ANT1	802.11g	2462.00	16.45	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.23	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.70	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.71	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

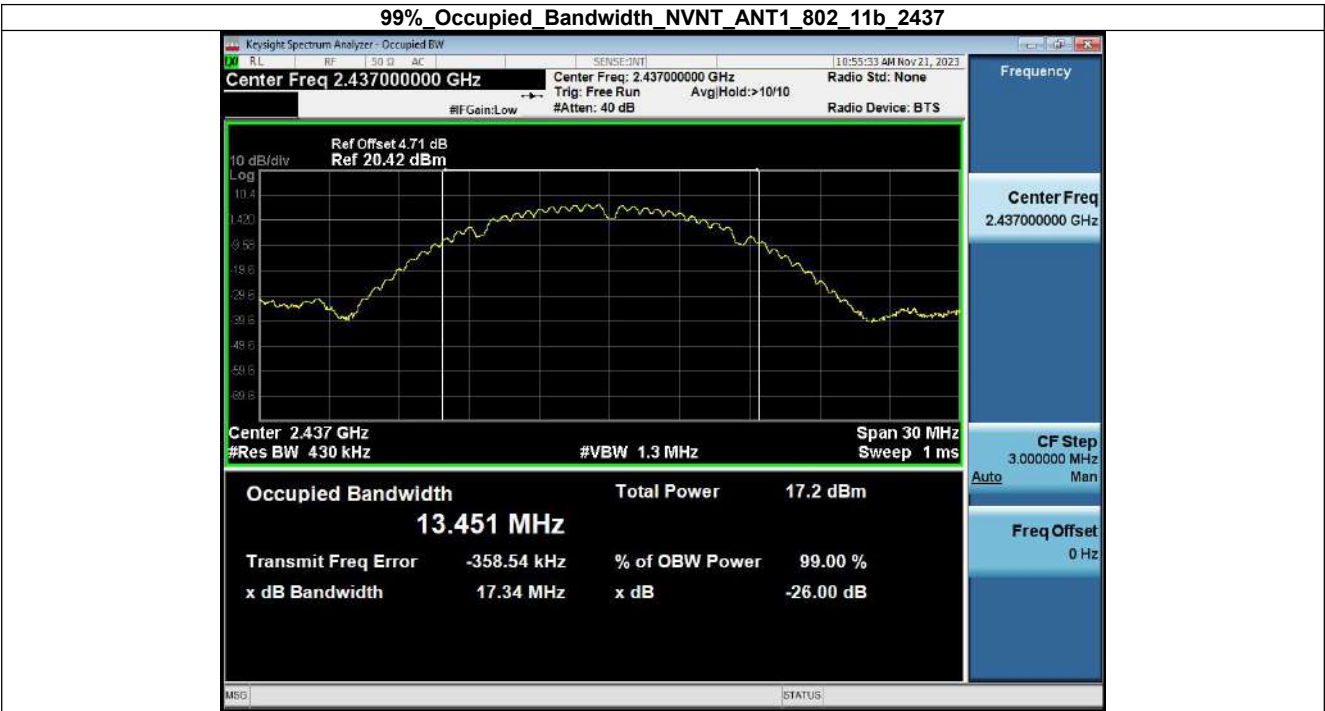
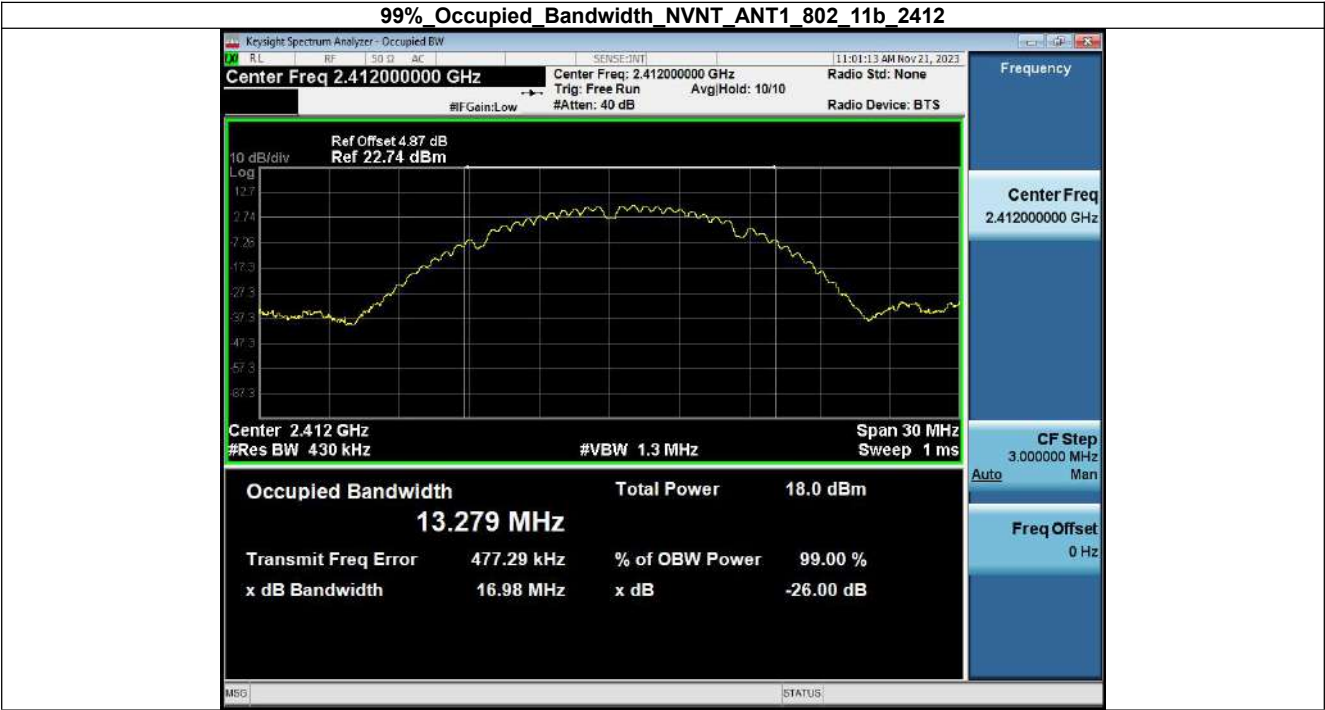


-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.279
NVNT	ANT1	802.11b	2437.00	13.451
NVNT	ANT1	802.11b	2462.00	13.601
NVNT	ANT1	802.11g	2412.00	17.551
NVNT	ANT1	802.11g	2437.00	17.759
NVNT	ANT1	802.11g	2462.00	17.385
NVNT	ANT1	802.11n(HT20)	2412.00	18.314
NVNT	ANT1	802.11n(HT20)	2437.00	18.390
NVNT	ANT1	802.11n(HT20)	2462.00	18.185



99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



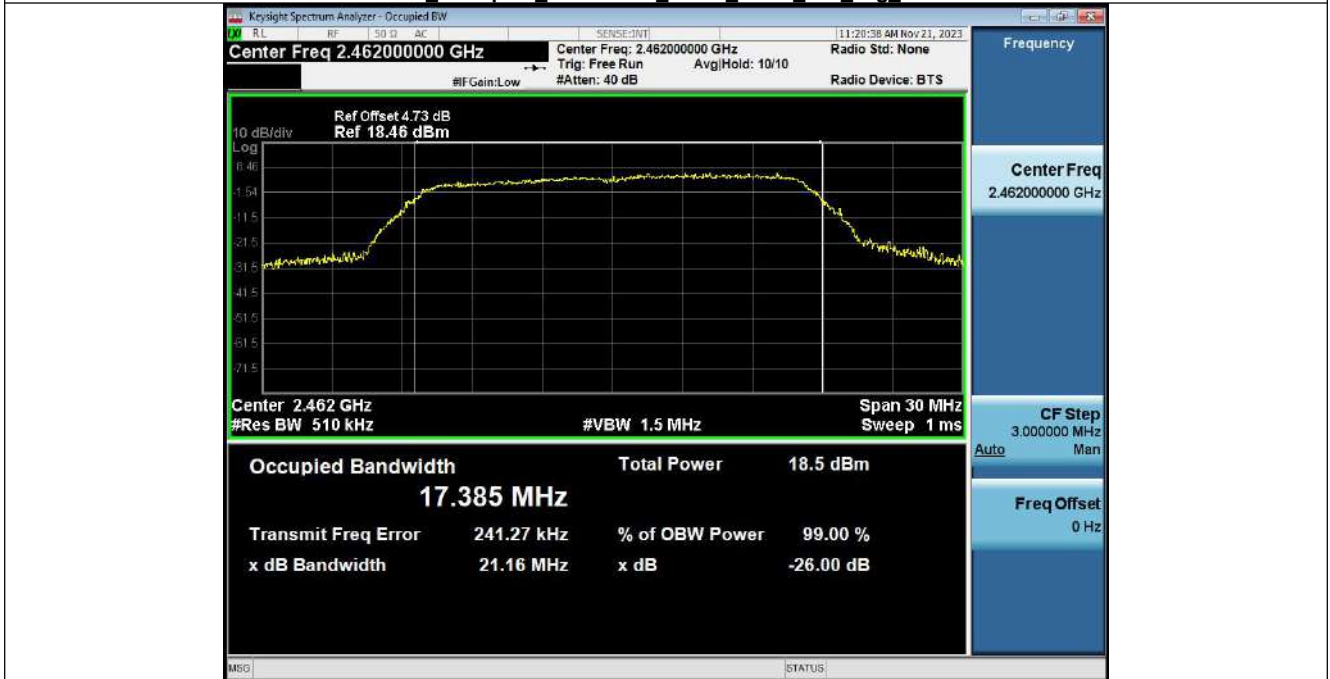
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



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

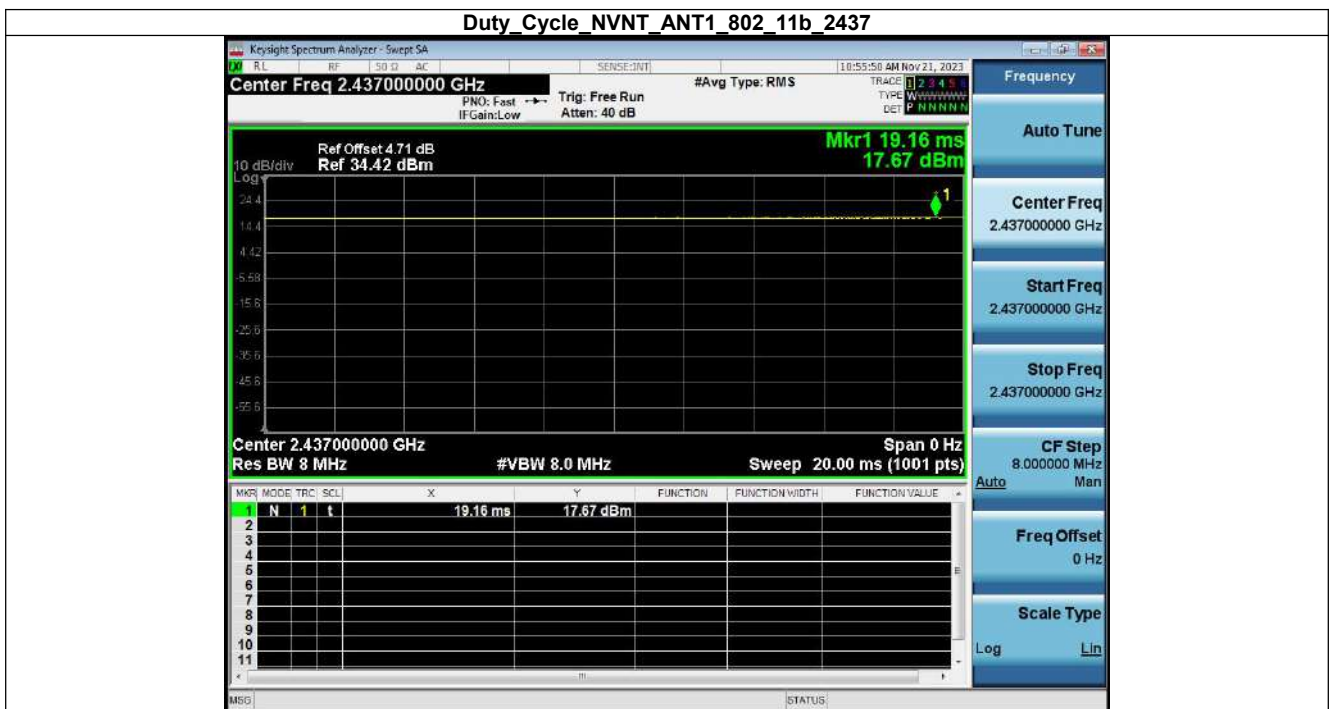
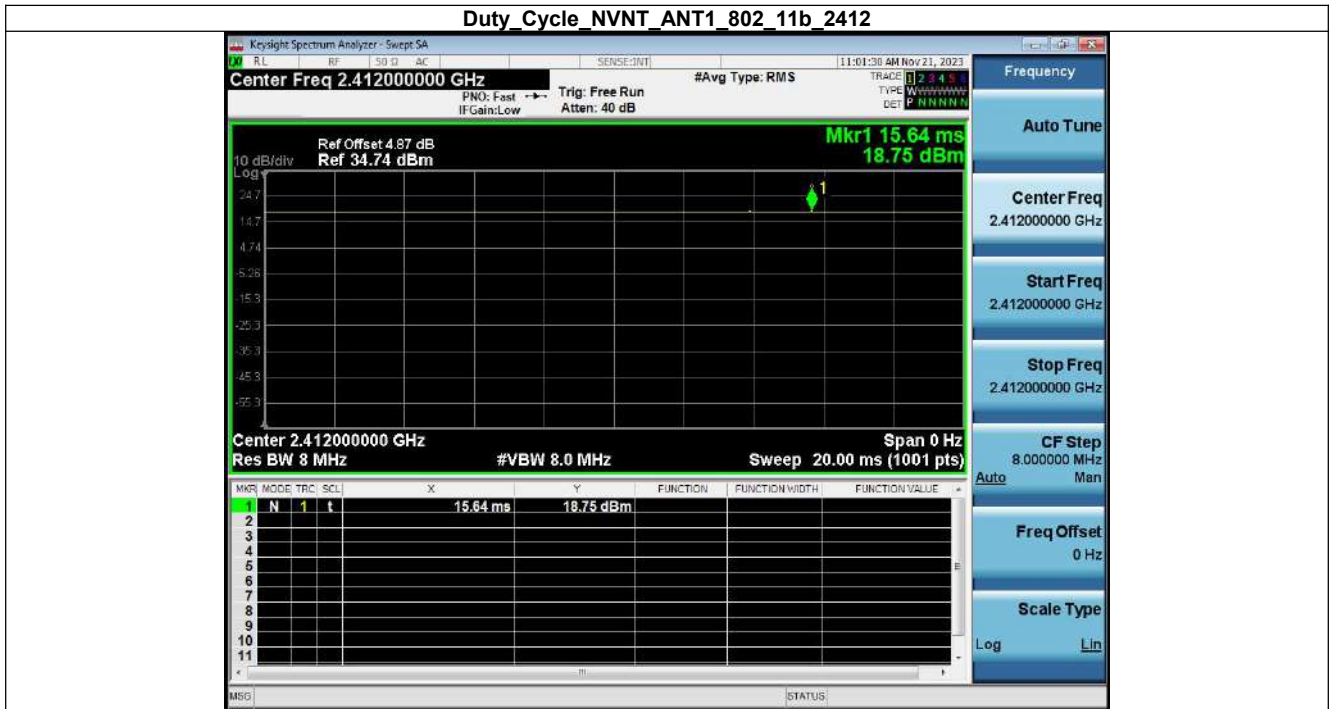


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



3. Duty Cycle

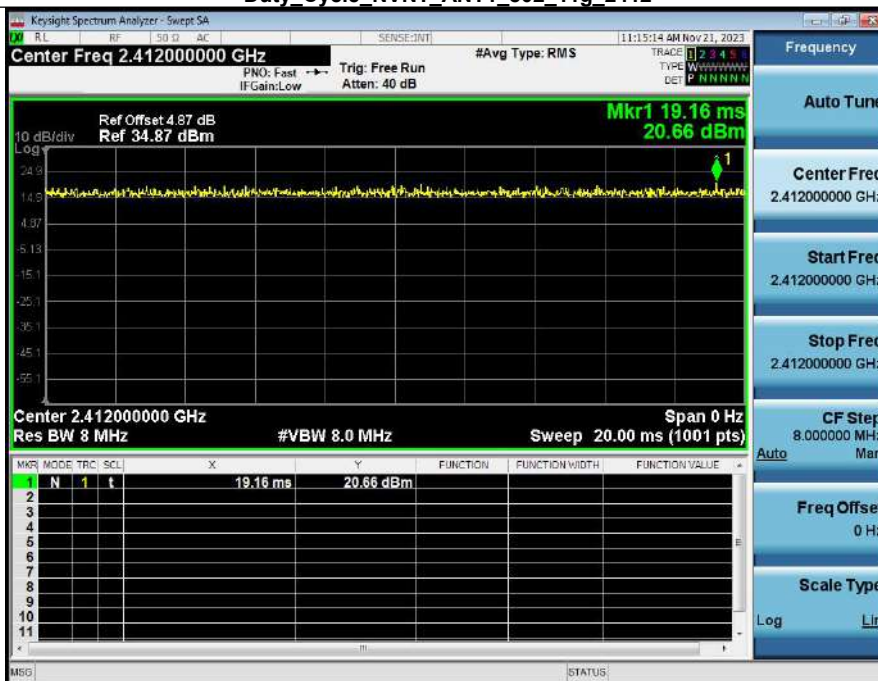
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)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



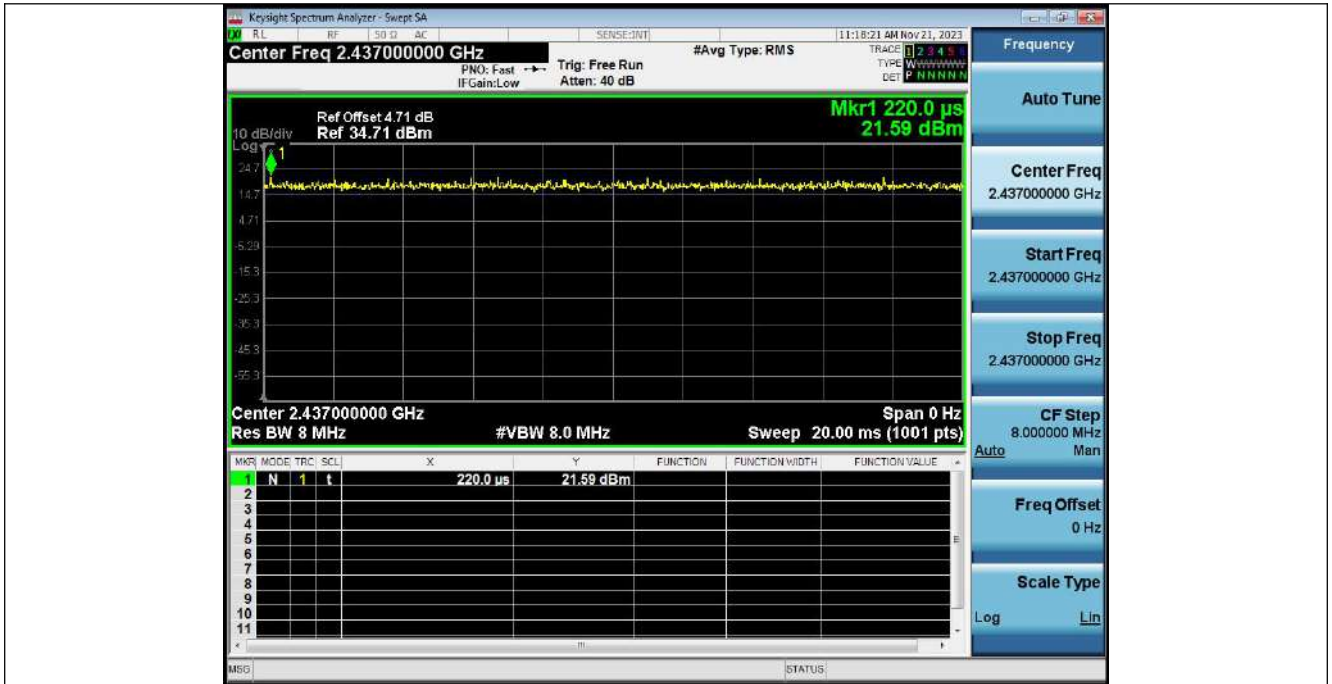
Duty Cycle NVNT_ANT1_802_11b_2462



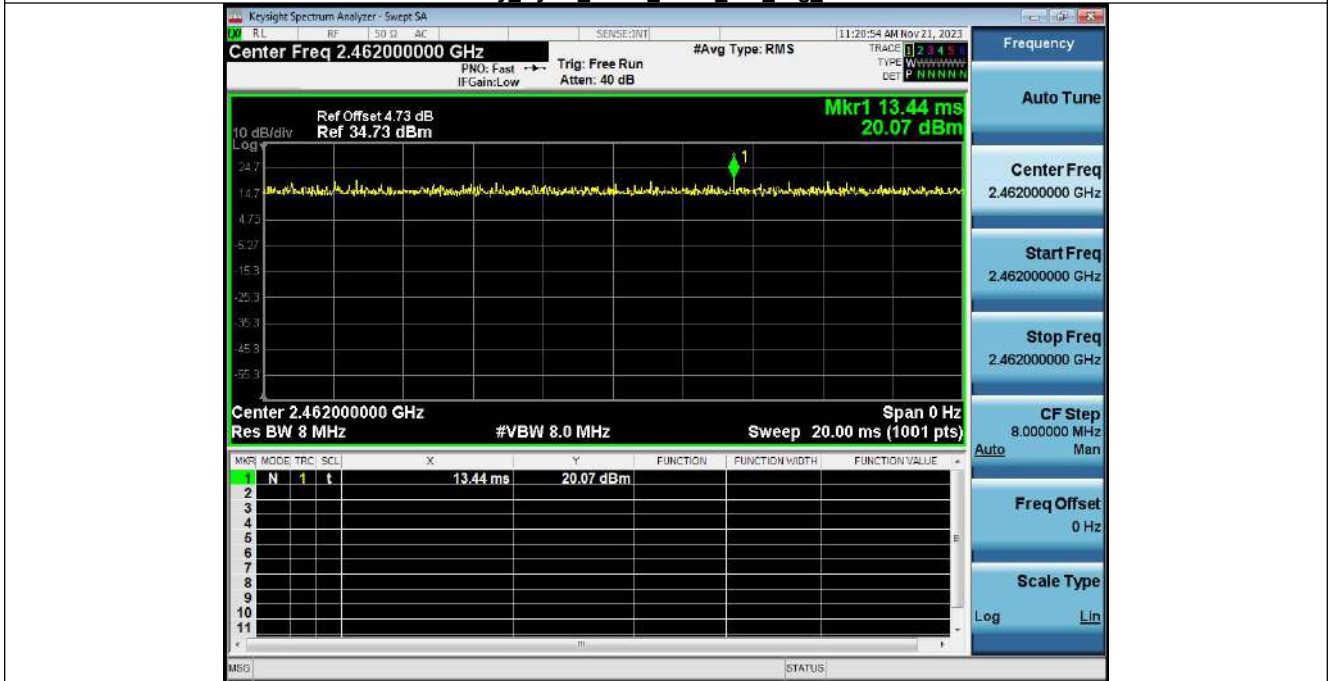
Duty Cycle NVNT_ANT1_802_11g_2412



Duty Cycle NVNT_ANT1_802_11g_2437



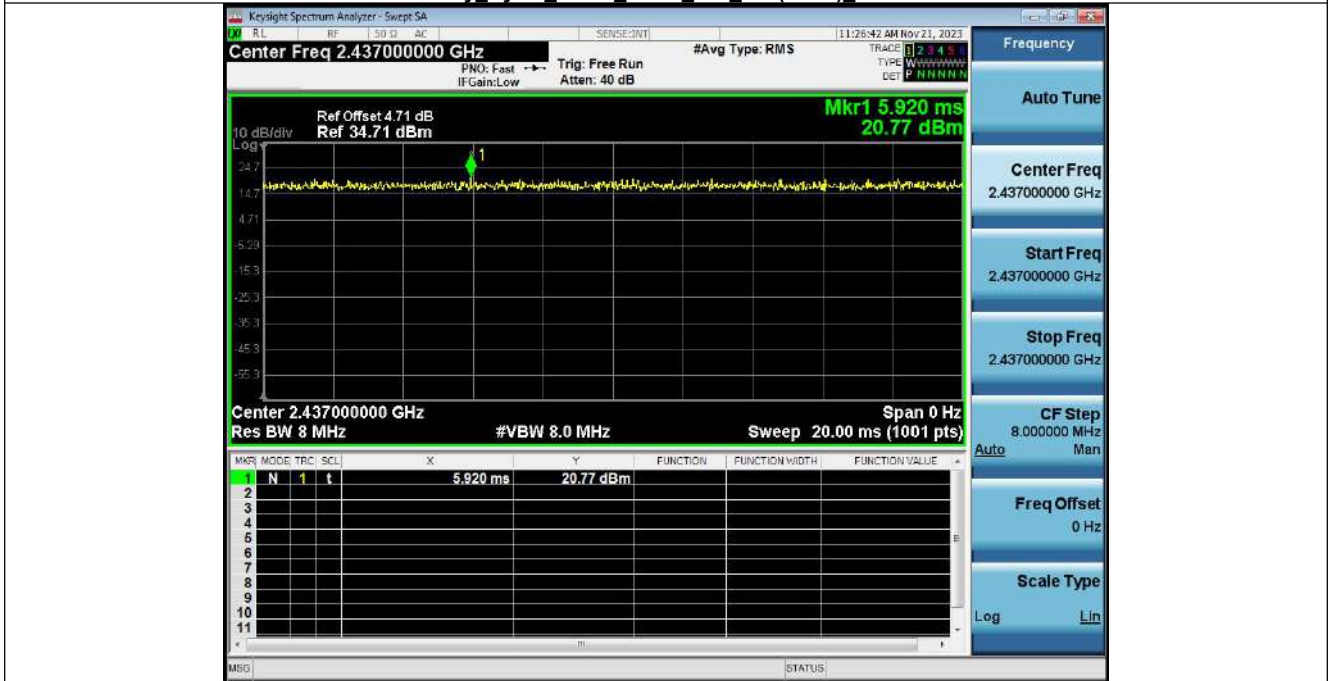
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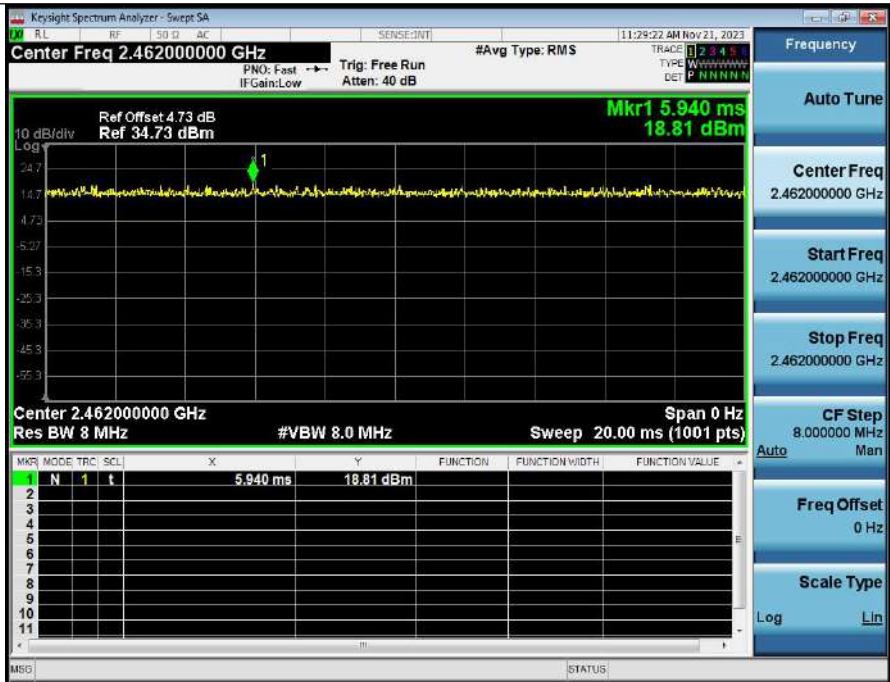
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



4. MAX. Output Power

Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Total Power(dBm)	Limit (dBm)	Ant gain (dBi)	EIRP (dBm)	Limit (dBm)	Result
802.11b	2412.00	Peak	18.01	18.01	30	3.82	21.83	36	Pass
802.11b	2437.00	Peak	17.24	17.24	30	3.82	21.06	36	Pass
802.11b	2462.00	Peak	17.94	17.94	30	3.82	21.76	36	Pass
802.11g	2412.00	Peak	20.22	20.22	30	3.82	24.04	36	Pass
802.11g	2437.00	Peak	21.65	21.65	30	3.82	25.47	36	Pass
802.11g	2462.00	Peak	19.13	19.13	30	3.82	22.95	36	Pass
802.11n(HT20)	2412.00	Peak	20.07	20.07	30	3.82	23.89	36	Pass
802.11n(HT20)	2437.00	Peak	21.56	21.56	30	3.82	25.38	36	Pass
802.11n(HT20)	2462.00	Peak	19.16	19.16	30	3.82	22.98	36	Pass

MAX_Output_Power_NVNT_ANT1_802_11b_2412



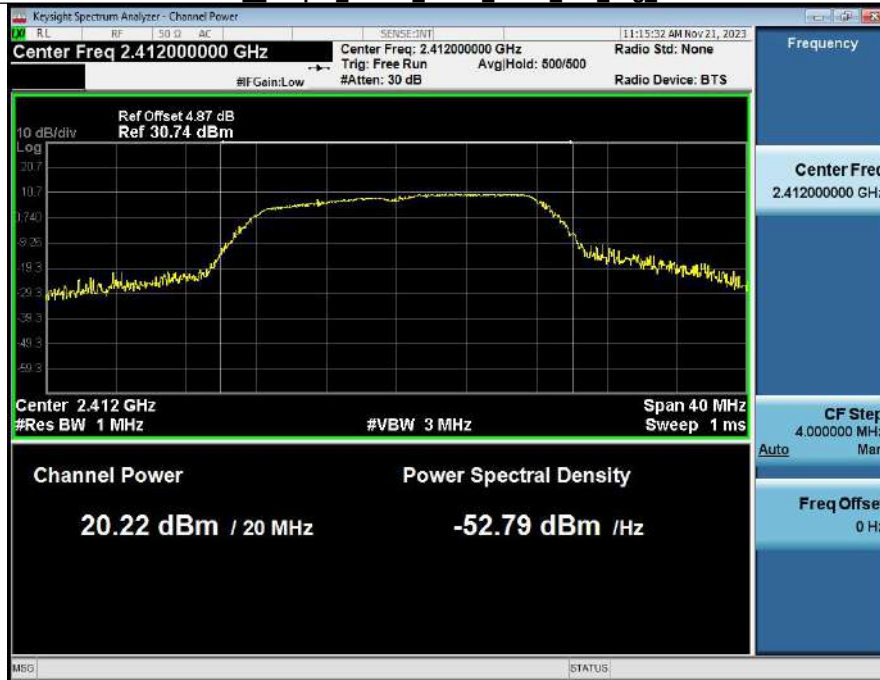
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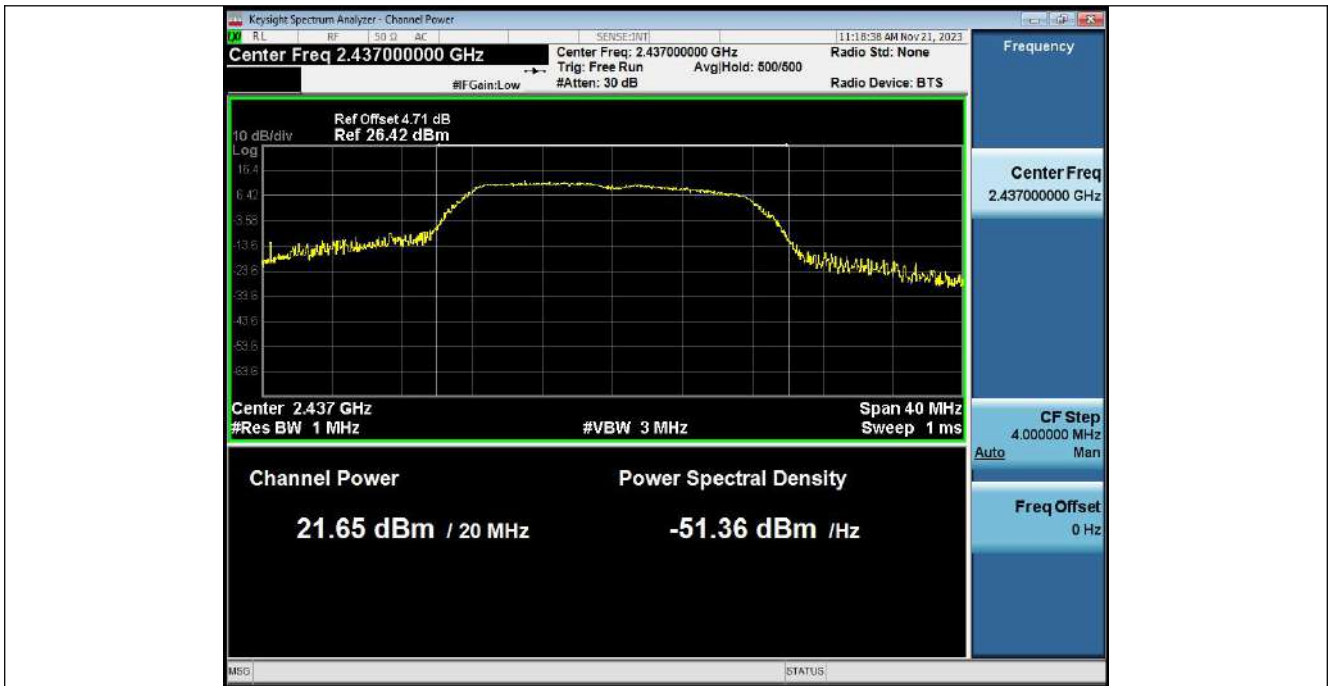
MAX Output Power NVNT_ANT1_802_11b_2462



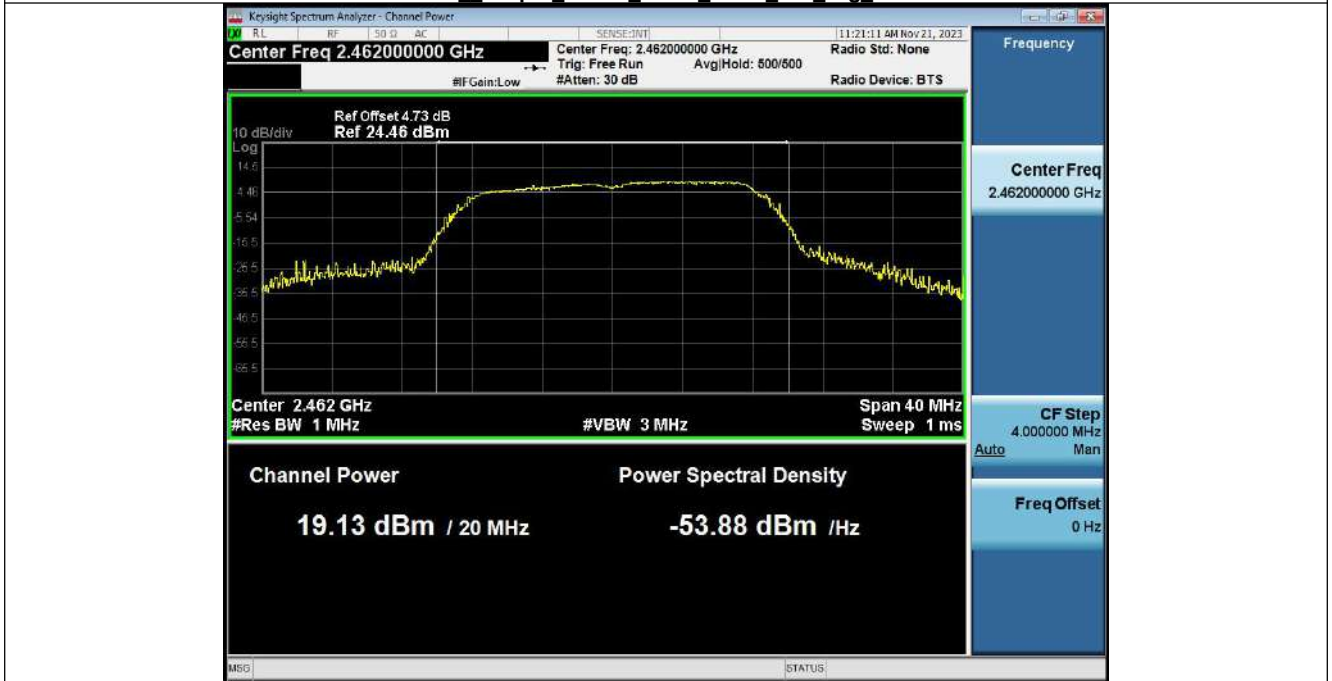
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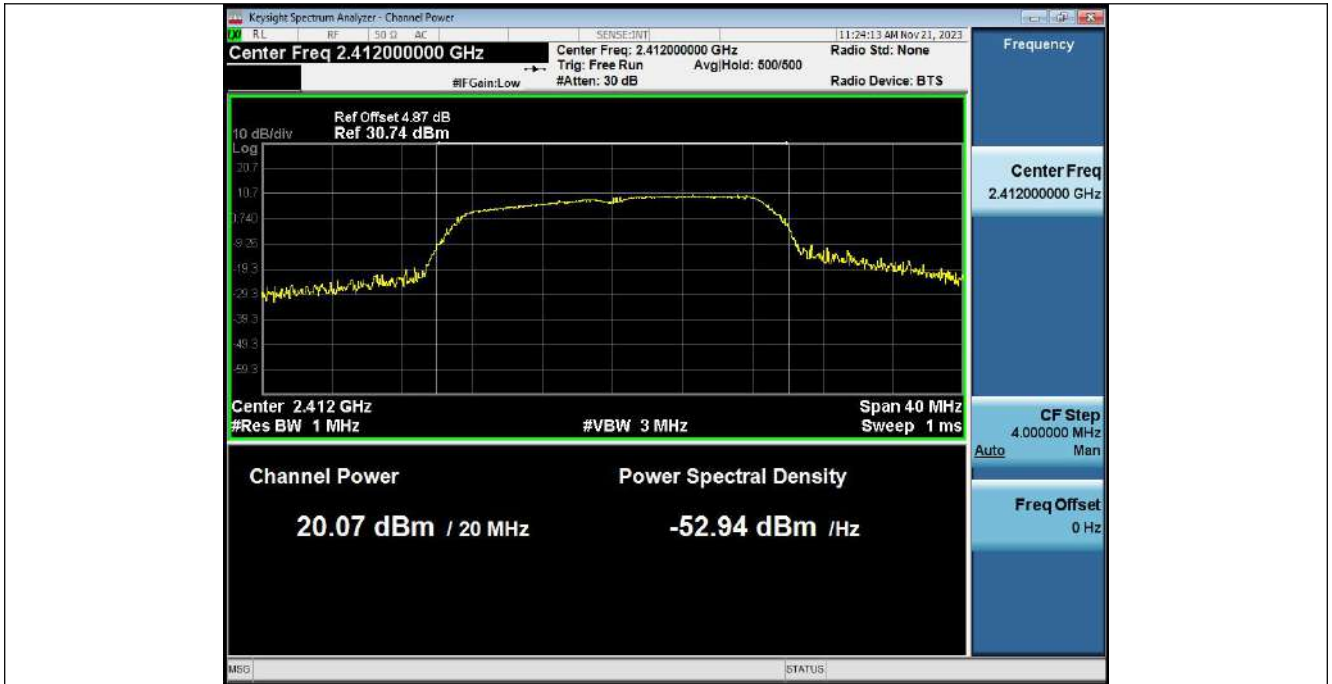
MAX Output Power NVNT_ANT1_802_11g_2437



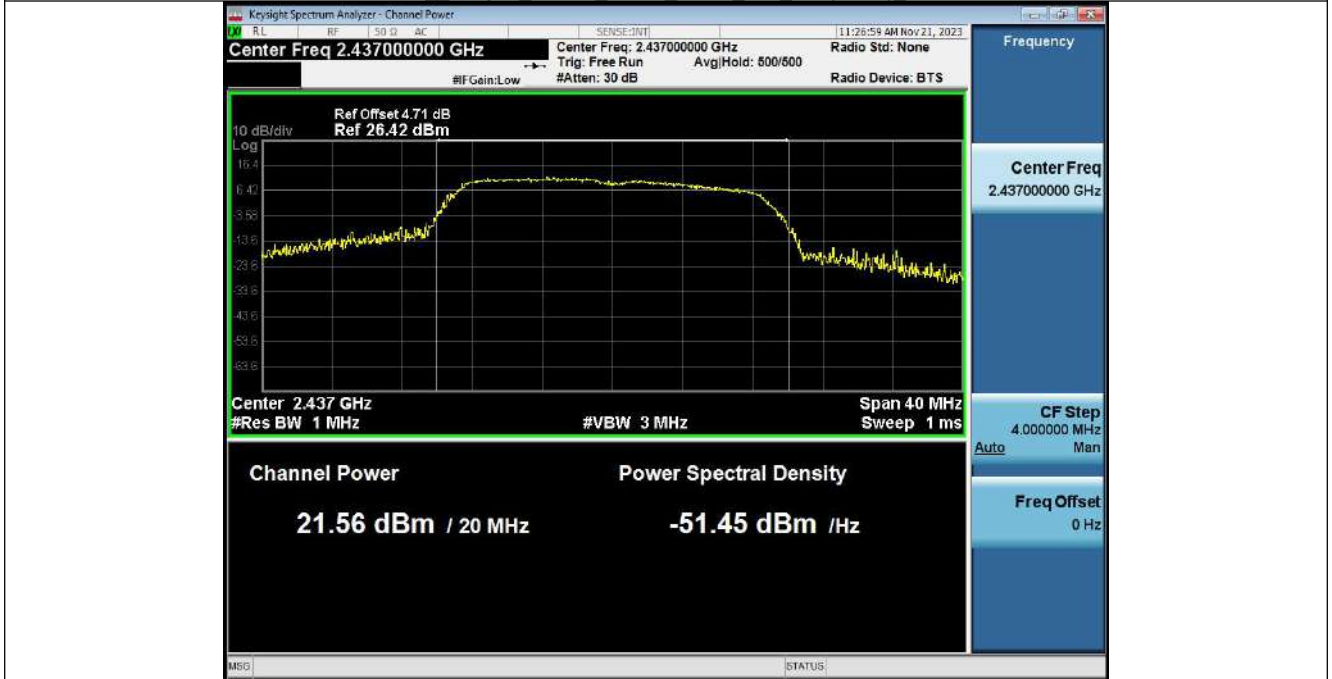
MAX Output Power_NVNT_ANT1_802_11g_2462



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



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	3.34	-10.00	-6.66	8	
NVNT	ANT1	802.11b	2437.00	1.94	-10.00	-8.06	8	
NVNT	ANT1	802.11b	2462.00	2.01	-10.00	-7.99	8	
NVNT	ANT1	802.11g	2412.00	-2.91	-10.00	-12.91	8	
NVNT	ANT1	802.11g	2437.00	-1.10	-10.00	-11.10	8	
NVNT	ANT1	802.11g	2462.00	-4.13	-10.00	-14.13	8	
NVNT	ANT1	802.11n(HT20)	2412.00	-2.81	-10.00	-12.81	8	
NVNT	ANT1	802.11n(HT20)	2437.00	-1.23	-10.00	-11.23	8	
NVNT	ANT1	802.11n(HT20)	2462.00	-4.33	-10.00	-14.32	8	



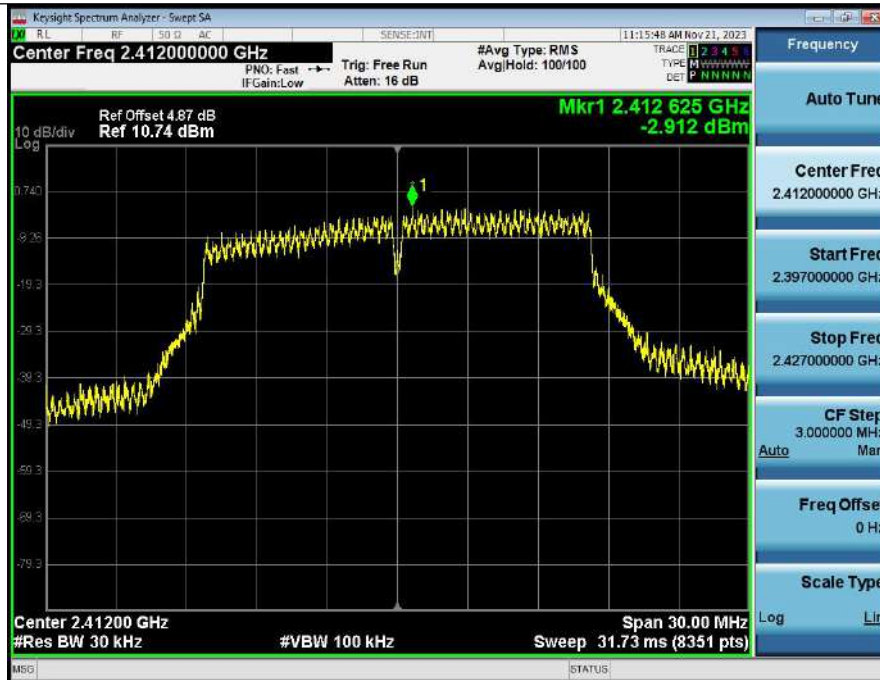
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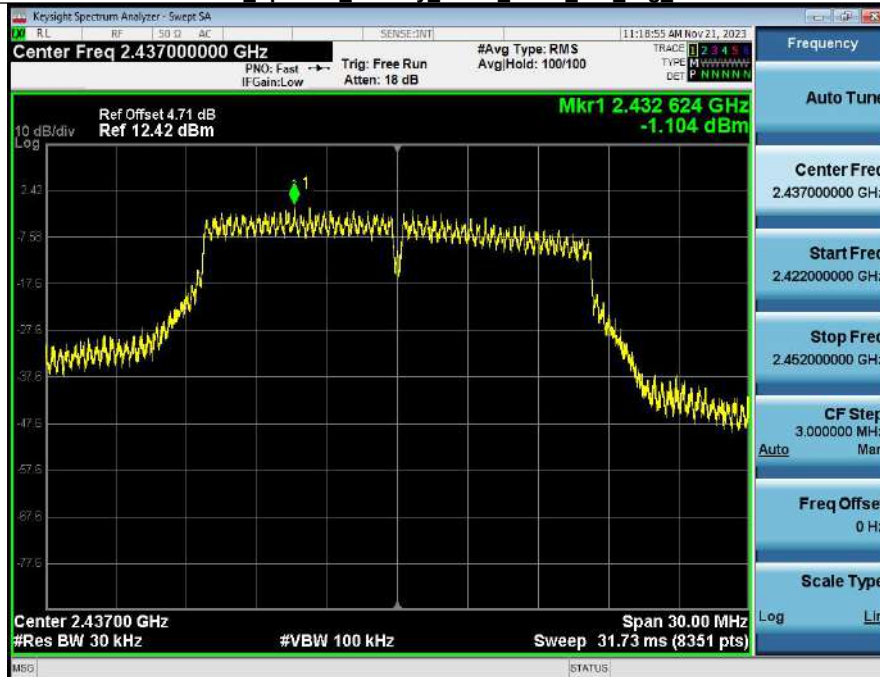
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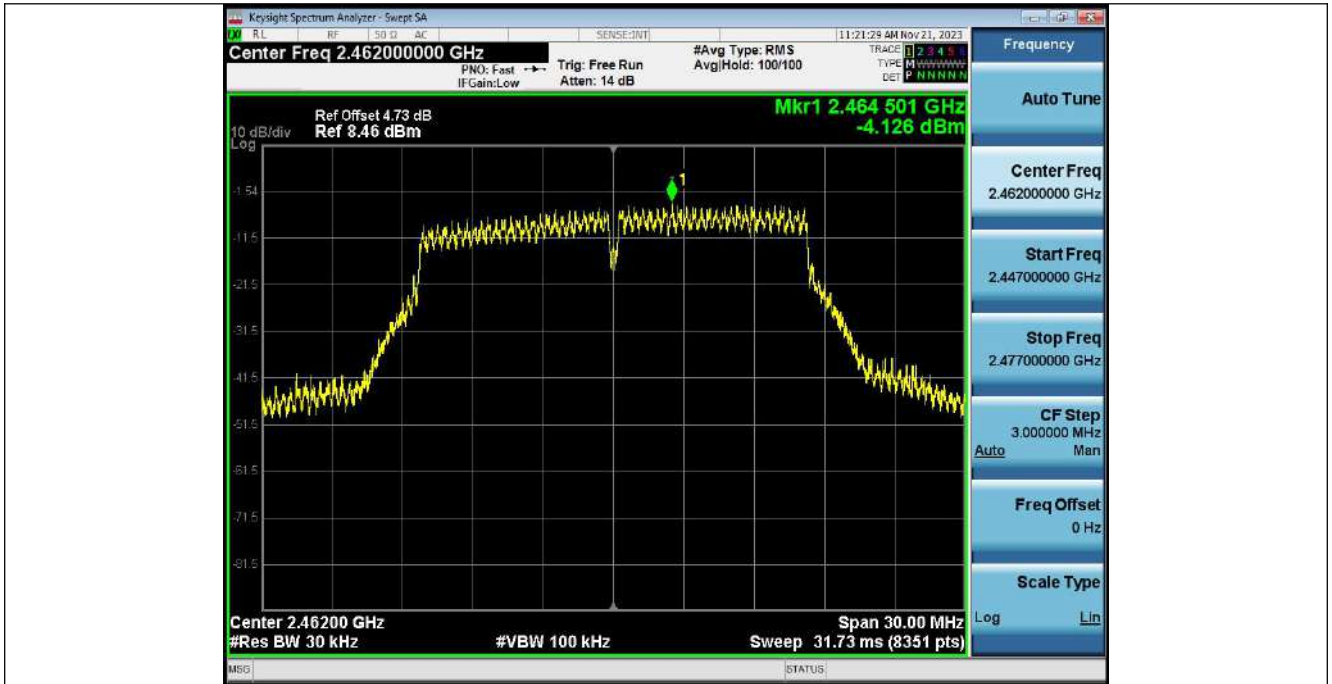
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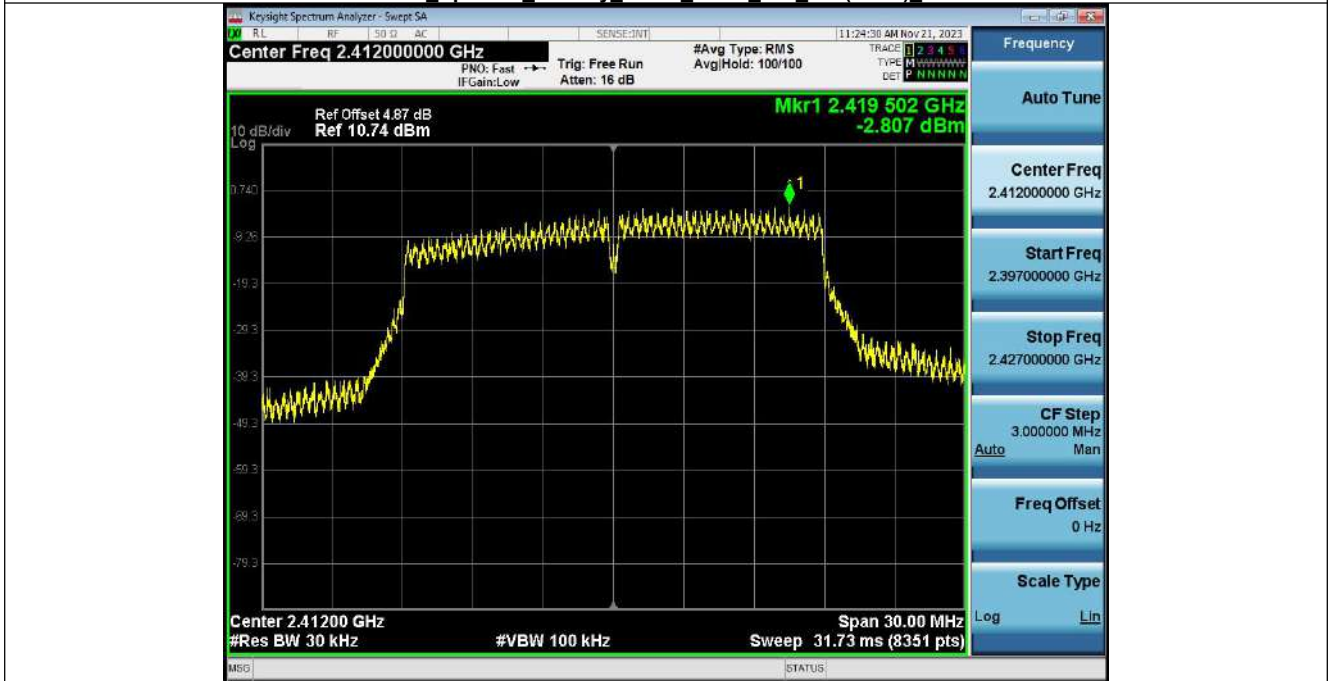
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



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_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.488	-39.571	-12.894	Pass
NVNT	ANT1	802.11b	2462.00	2487.136	-55.390	-13.402	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	-35.172	-20.260	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-53.116	-21.967	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.816	-35.911	-21.146	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.824	-48.999	-21.944	Pass

1 Reference Level NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



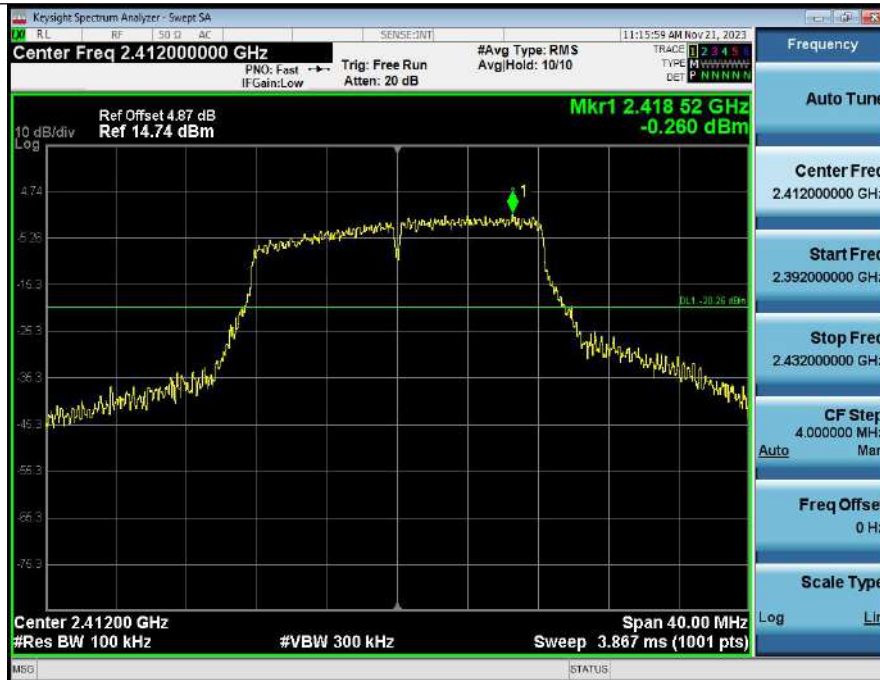
1 Reference Level NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



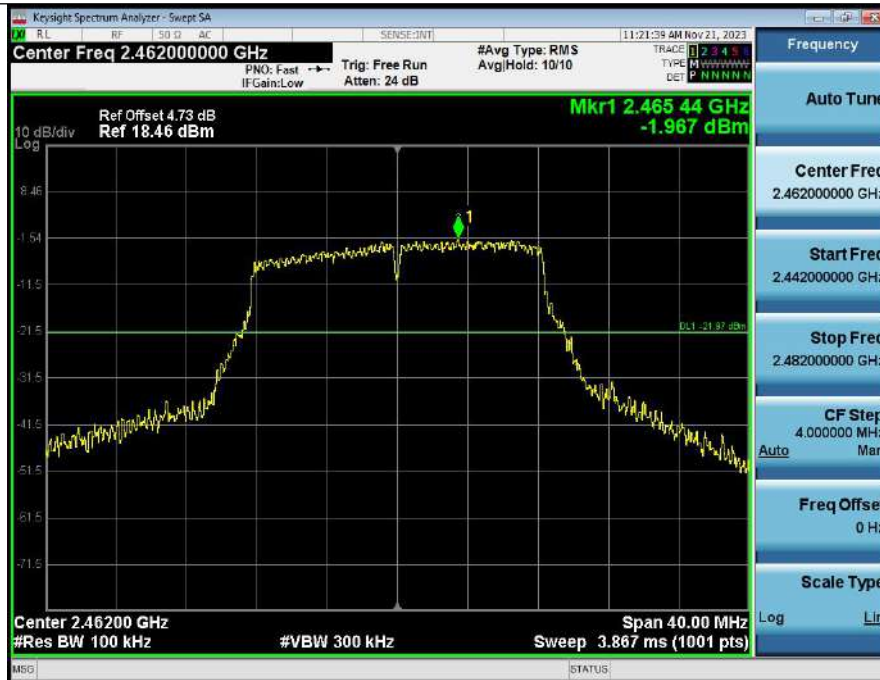
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2_Bandedge_NVNT_ANT1_802_11g_2412



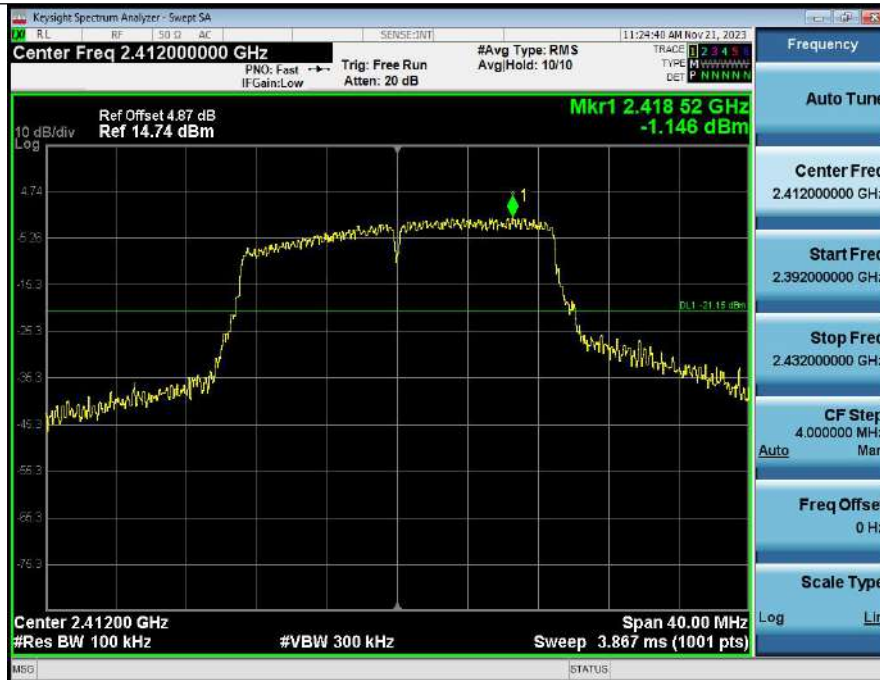
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2_Bandedge_NVNT_ANT1_802_11g_2462



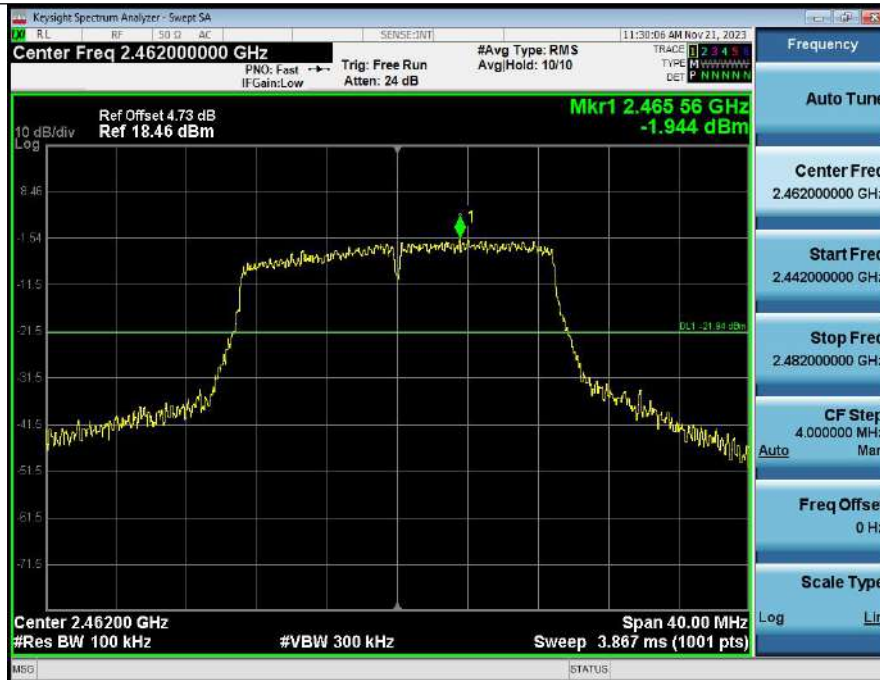
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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



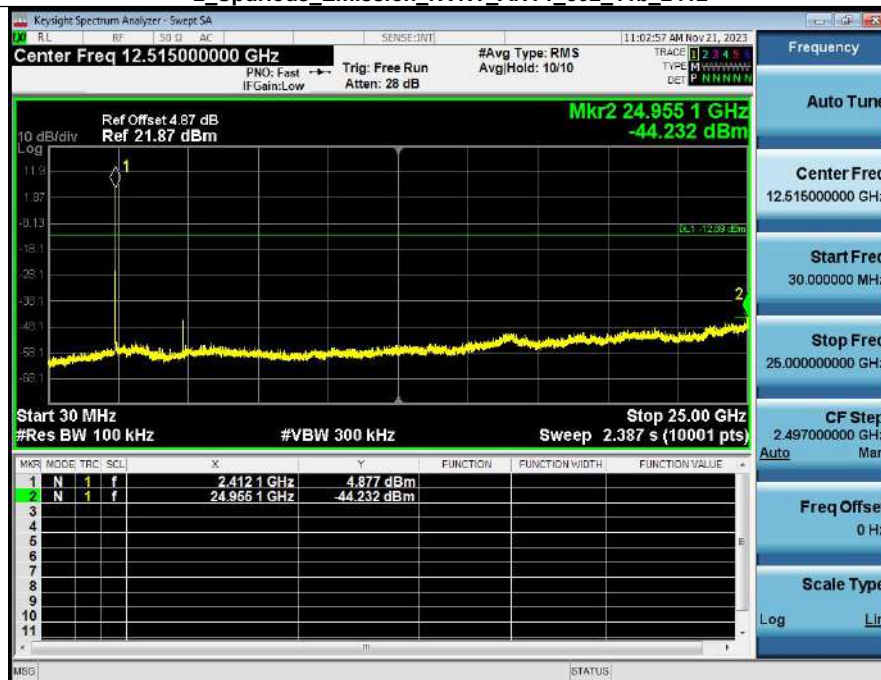
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24955.054	-44.232	-12.894	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	-49.524	-14.104	Pass
NVNT	ANT1	802.11b	2462.00	24947.563	-45.817	-13.402	Pass
NVNT	ANT1	802.11g	2412.00	24465.642	-57.668	-20.260	Pass
NVNT	ANT1	802.11g	2437.00	24870.156	-52.381	-19.088	Pass
NVNT	ANT1	802.11g	2462.00	24922.593	-53.889	-21.967	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24977.527	-58.243	-21.146	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24967.539	-52.109	-19.409	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24418.199	-54.015	-21.944	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



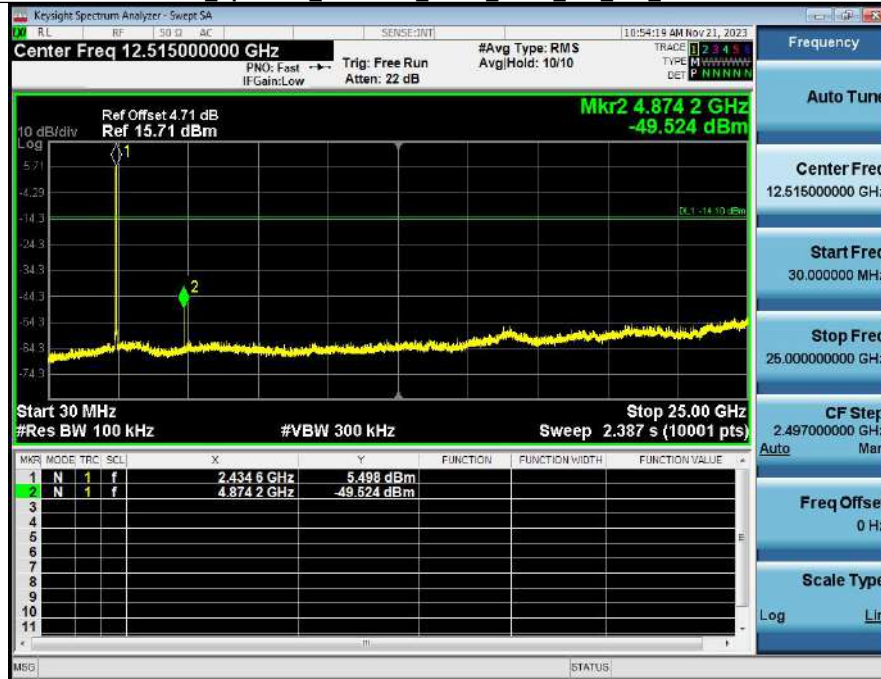
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1 Reference Level NVNT_ANT1_802_11b_2437



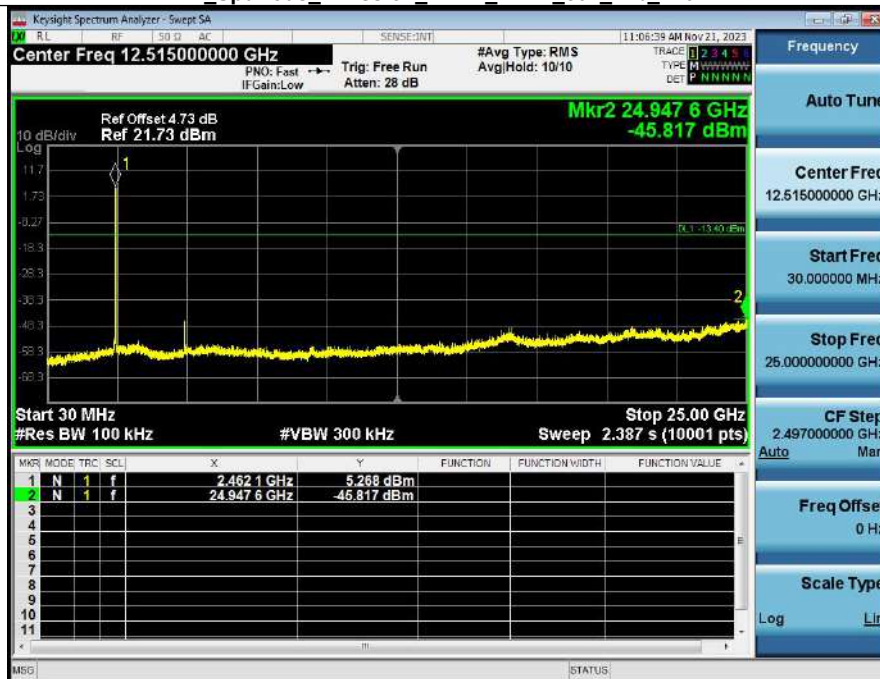
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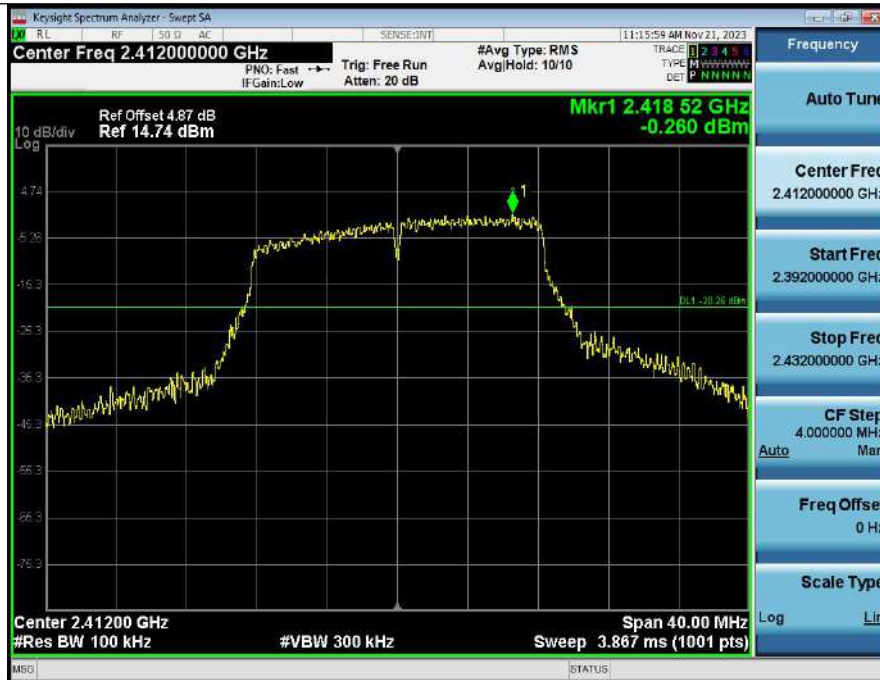
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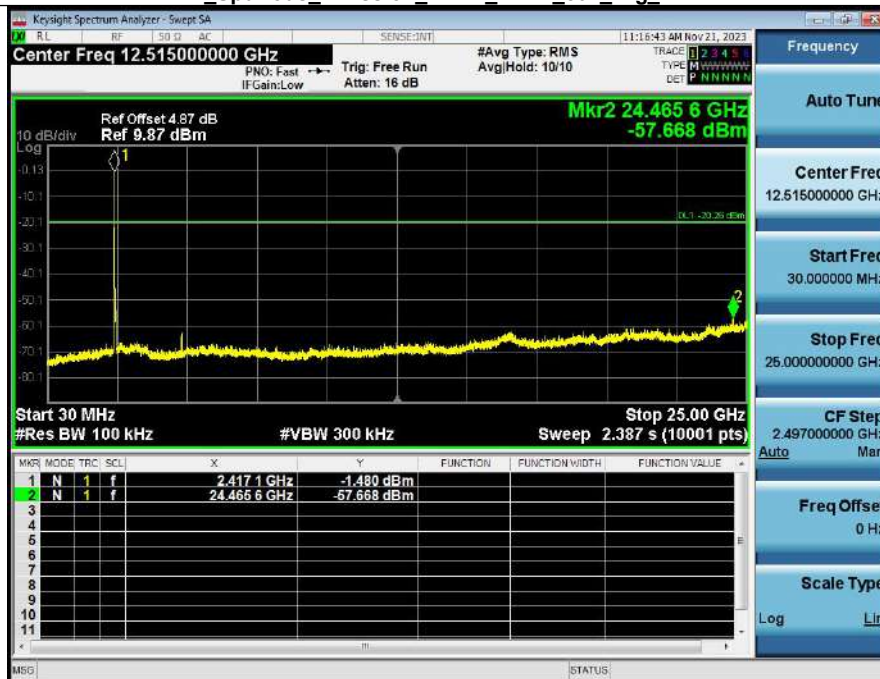
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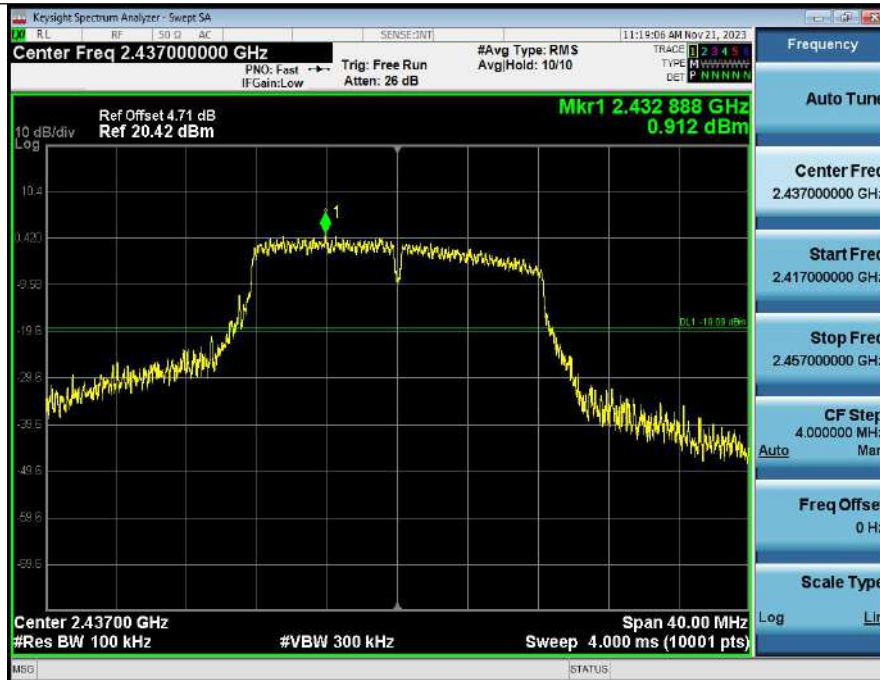
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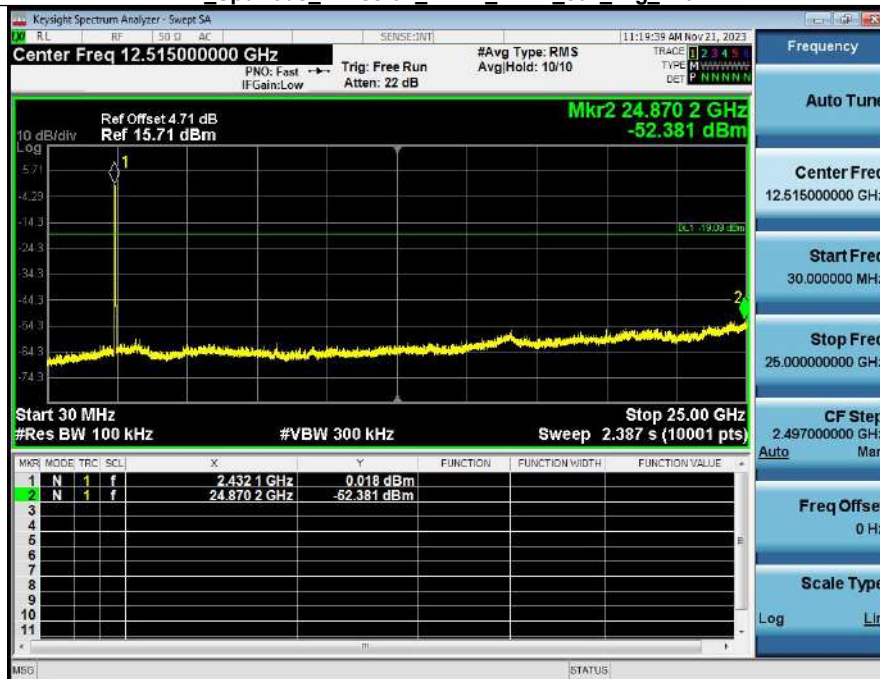
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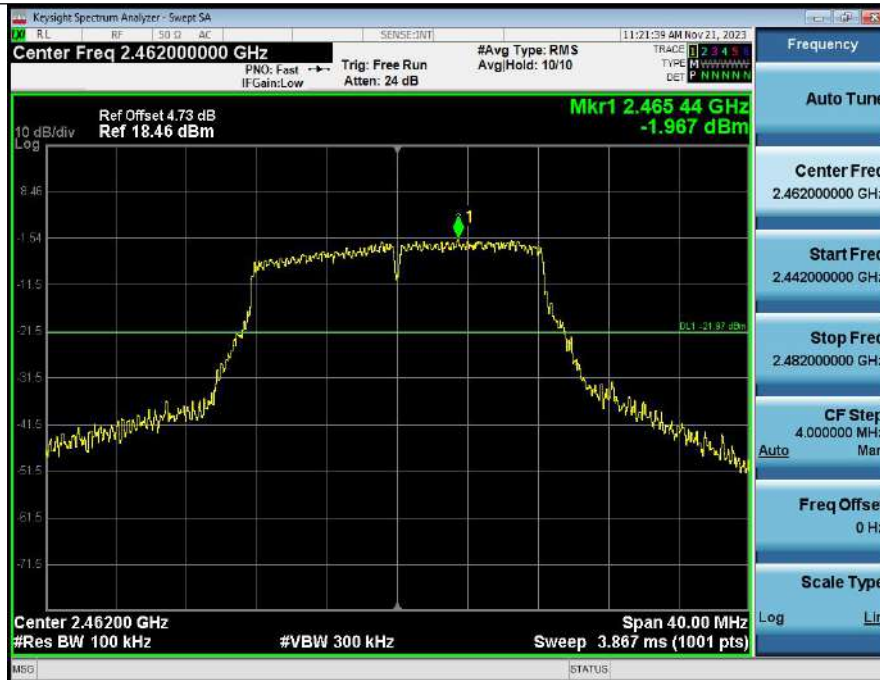
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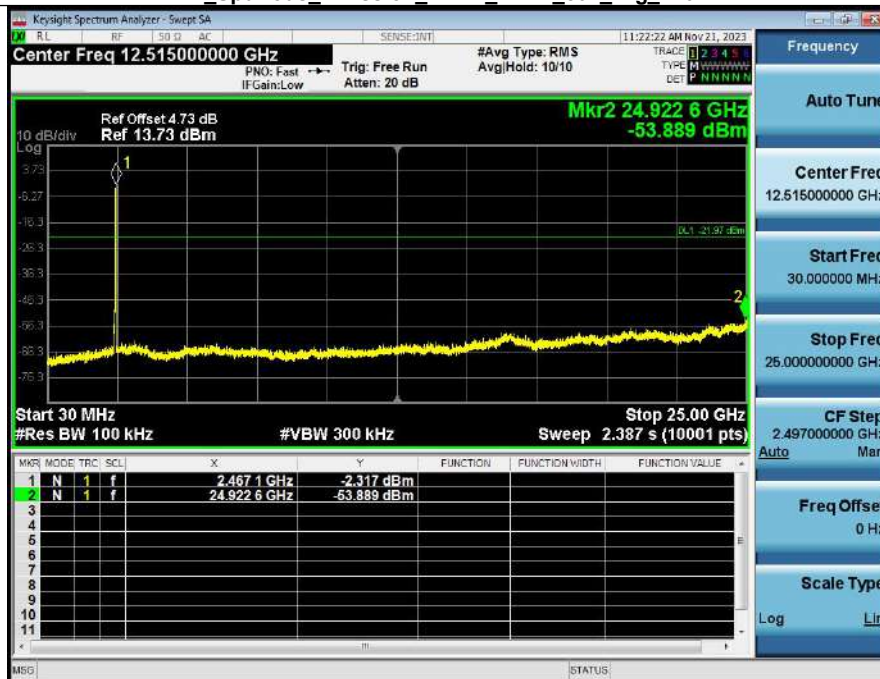
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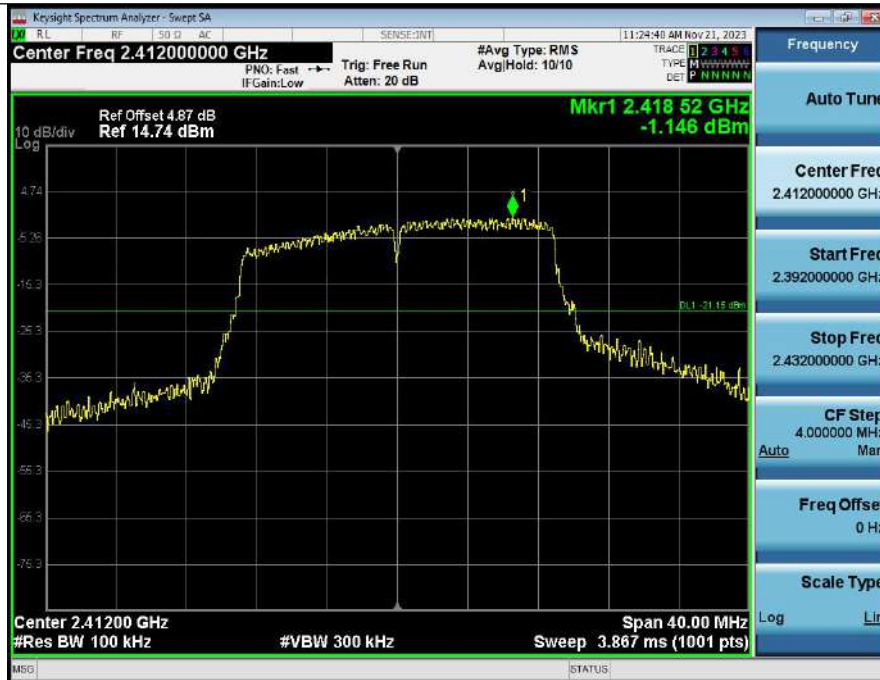
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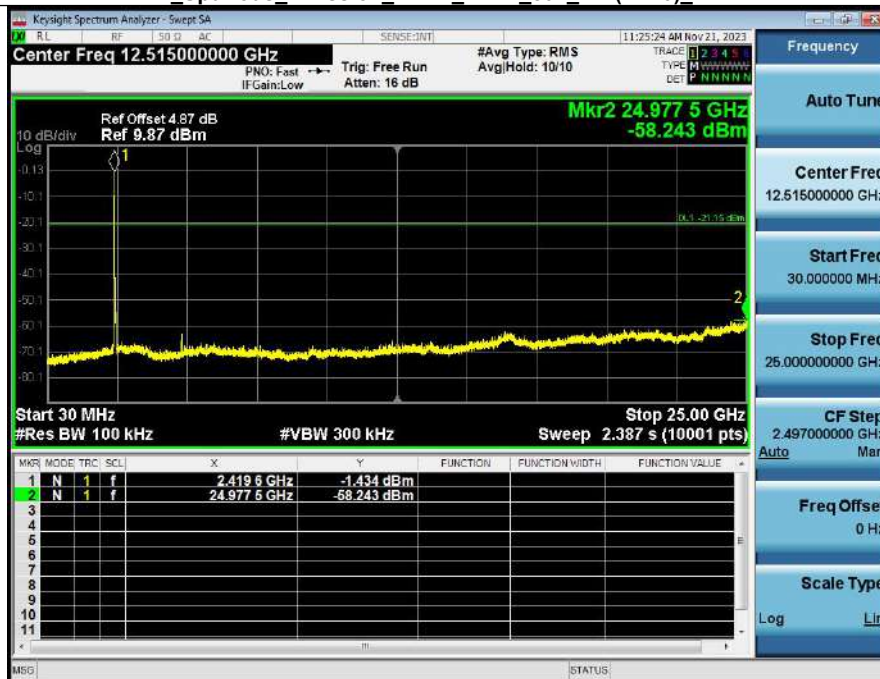
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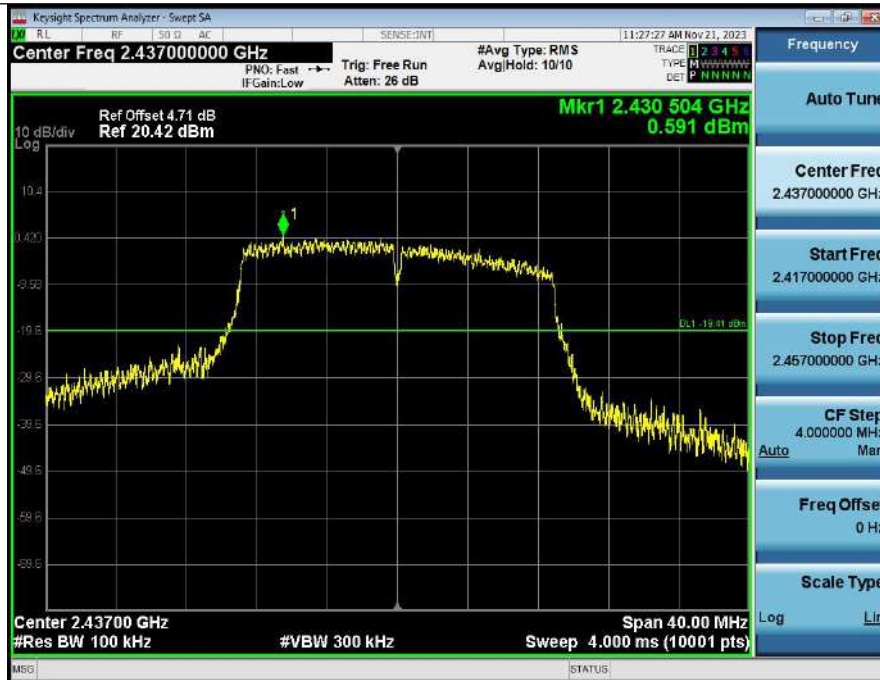
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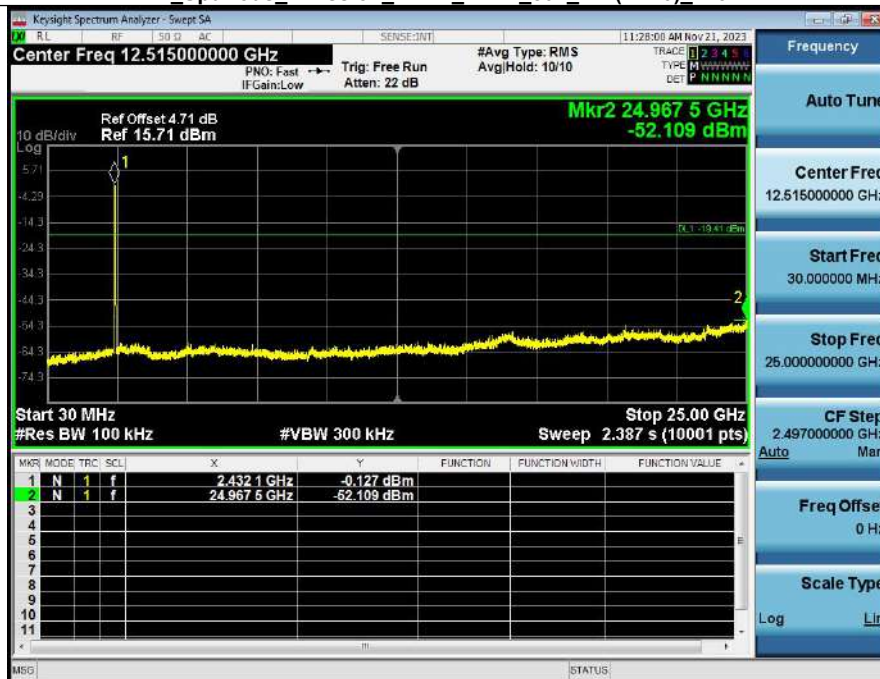
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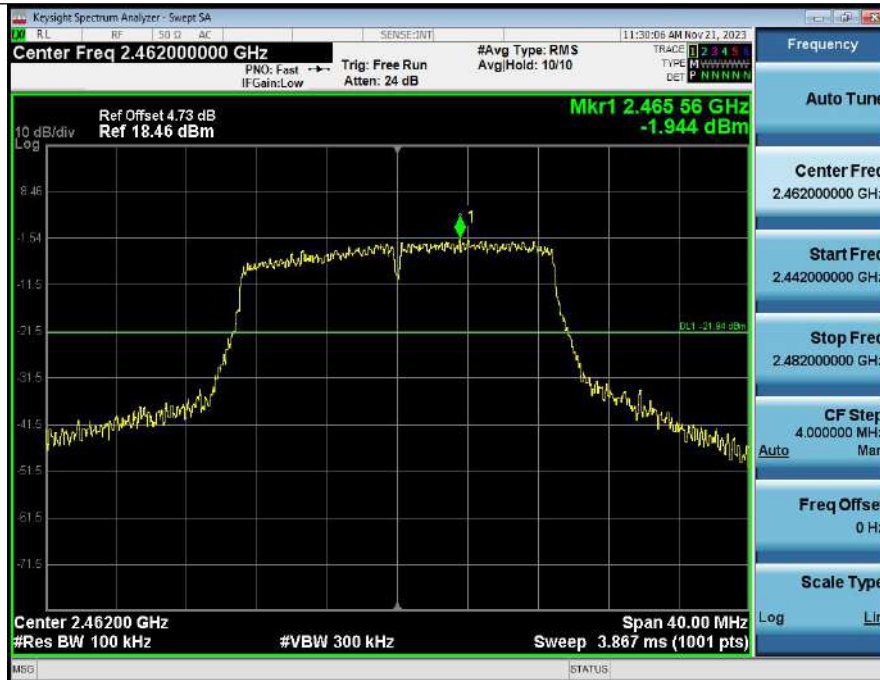
1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



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

