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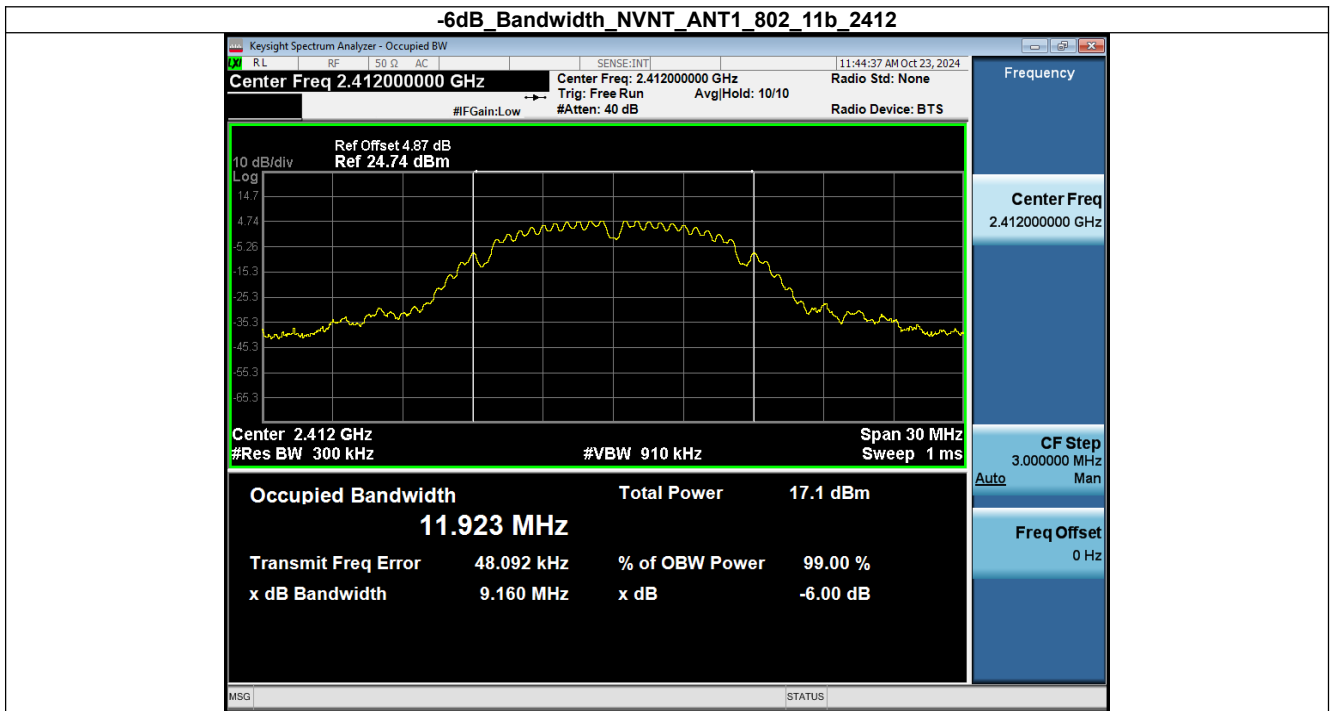
7. Spurious Emission 39

FCC ID: 2A275-ZA901

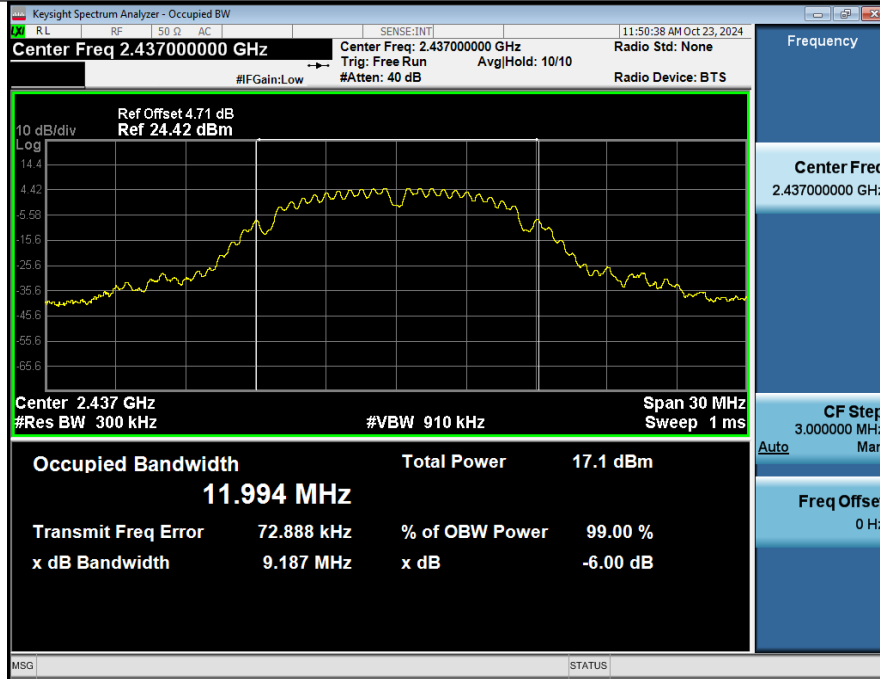
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

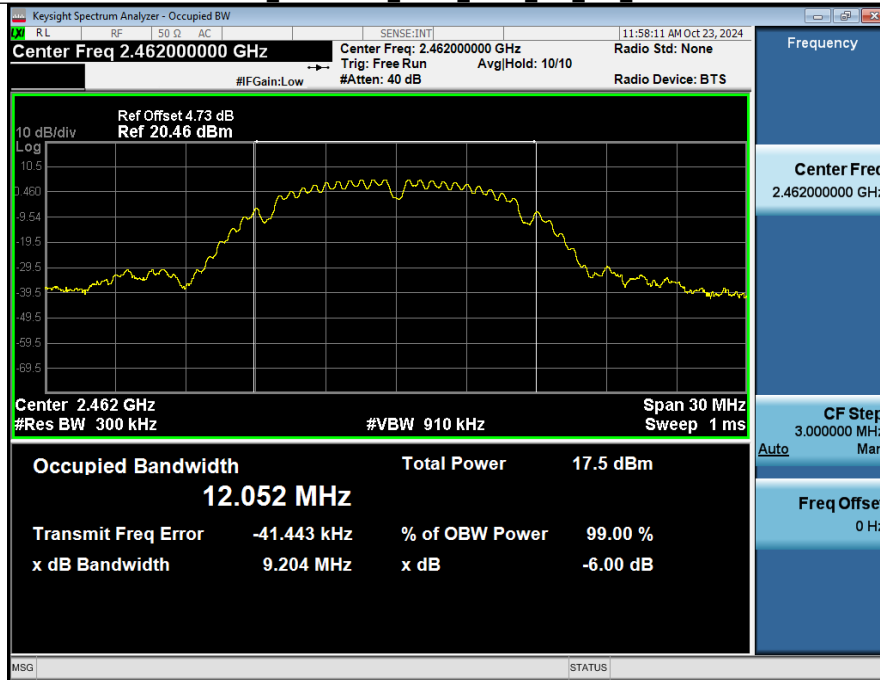
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.16	500	Pass
NVNT	ANT1	802.11b	2437.00	9.19	500	Pass
NVNT	ANT1	802.11b	2462.00	9.20	500	Pass
NVNT	ANT1	802.11g	2412.00	16.43	500	Pass
NVNT	ANT1	802.11g	2437.00	16.50	500	Pass
NVNT	ANT1	802.11g	2462.00	16.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.45	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.48	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.31	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.27	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.08	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.15	500	Pass



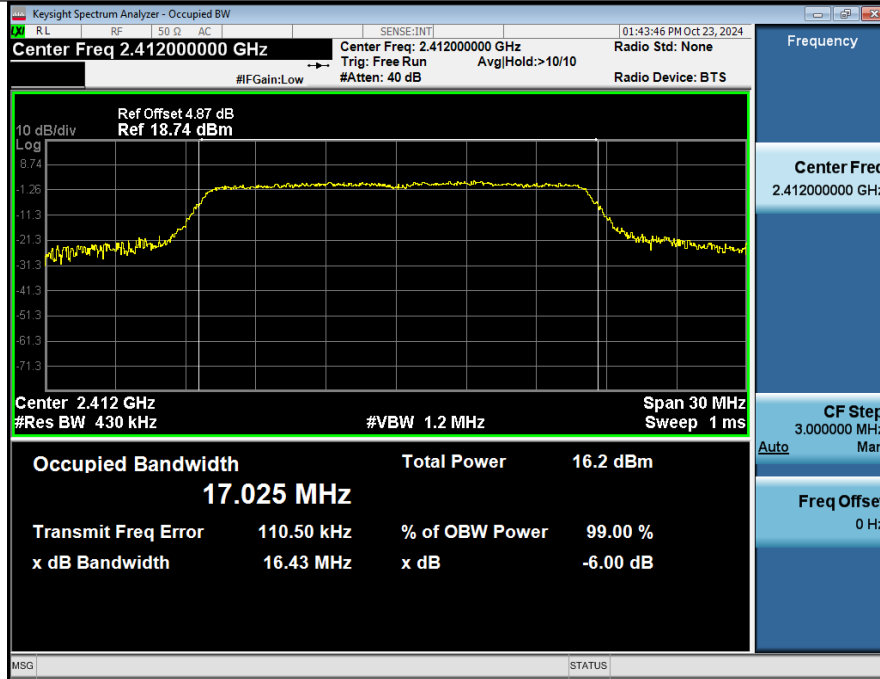
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



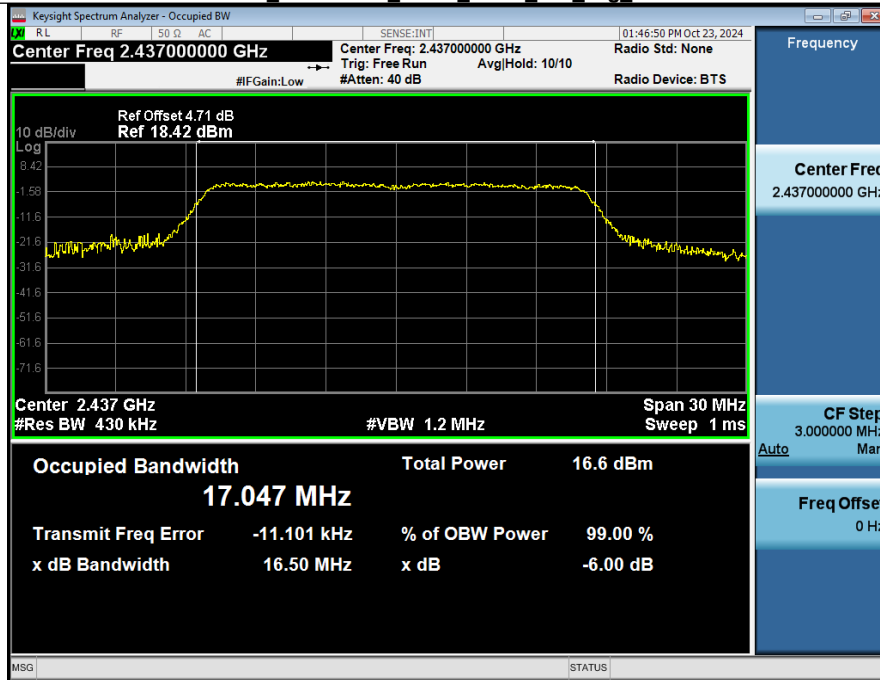
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



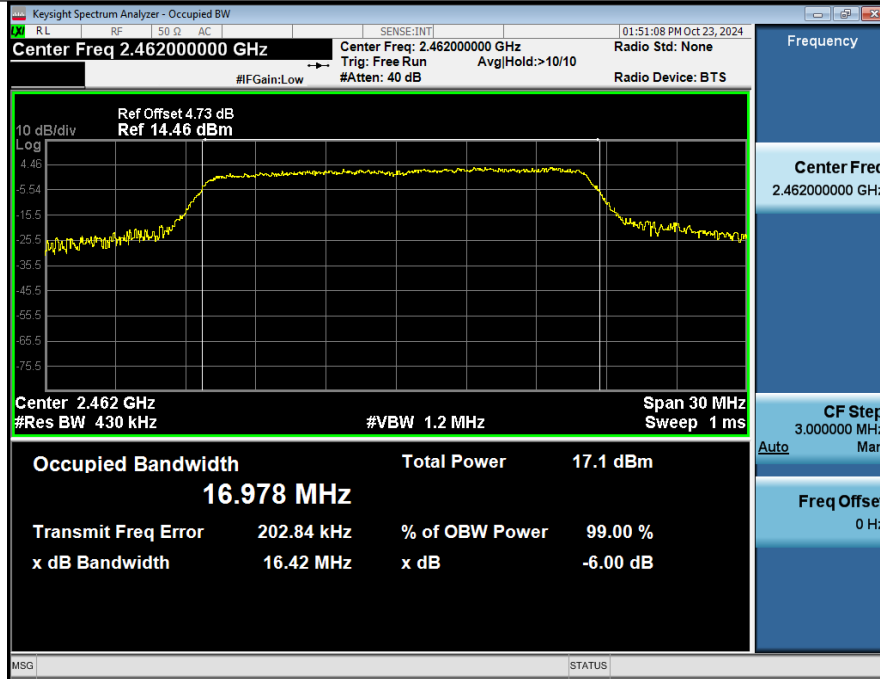
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



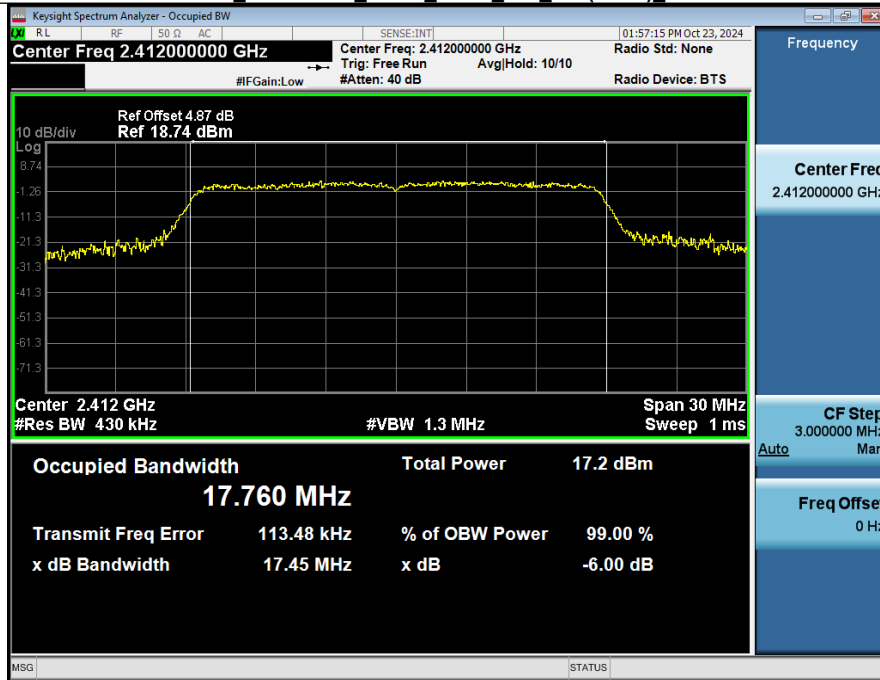
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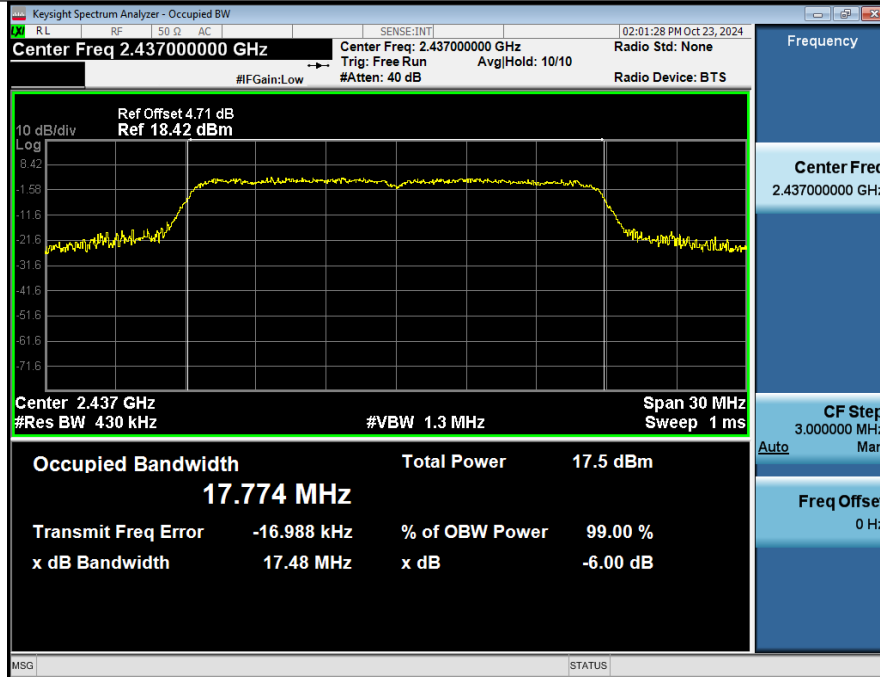
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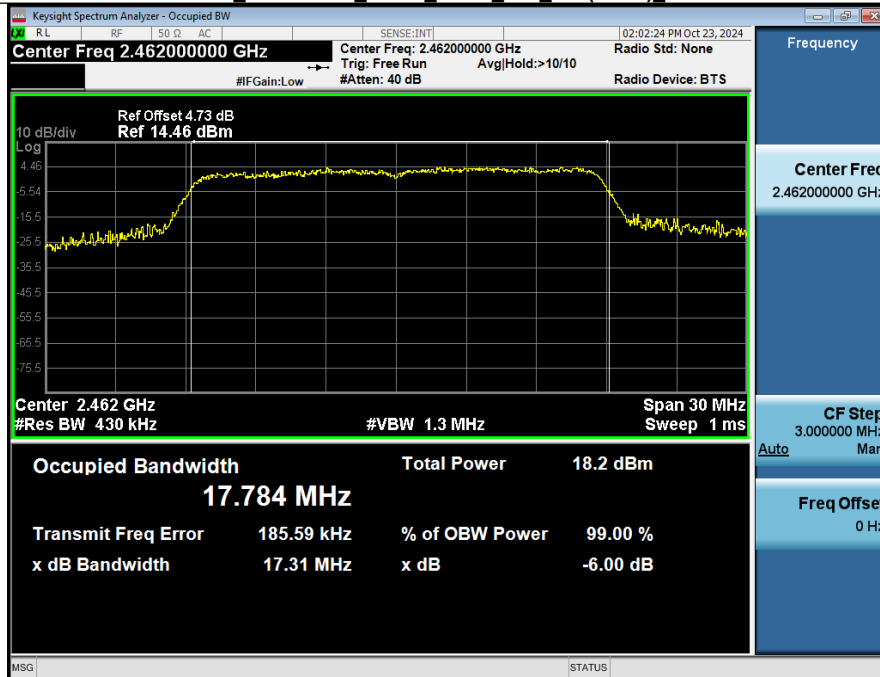
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



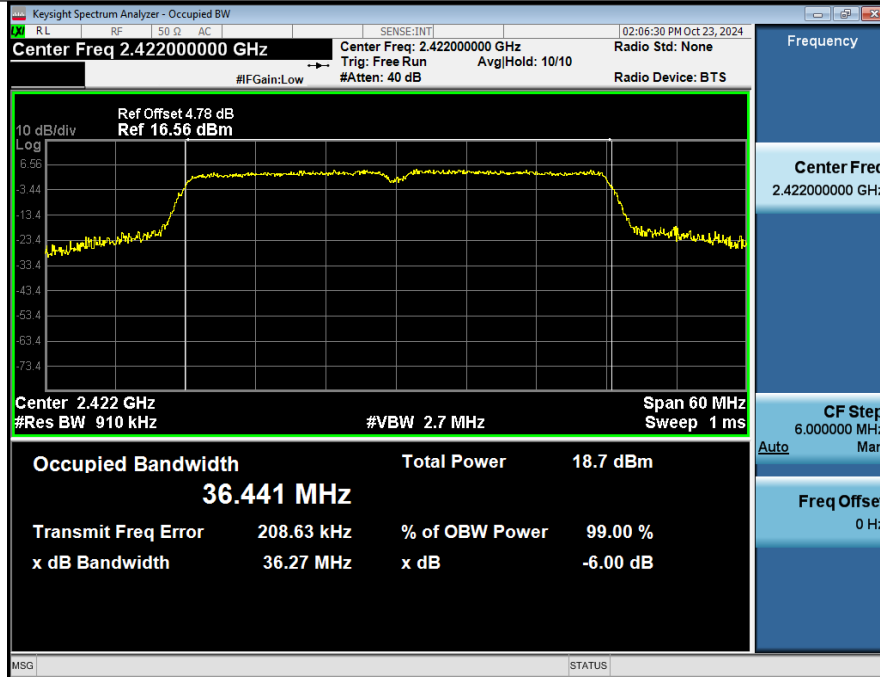
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



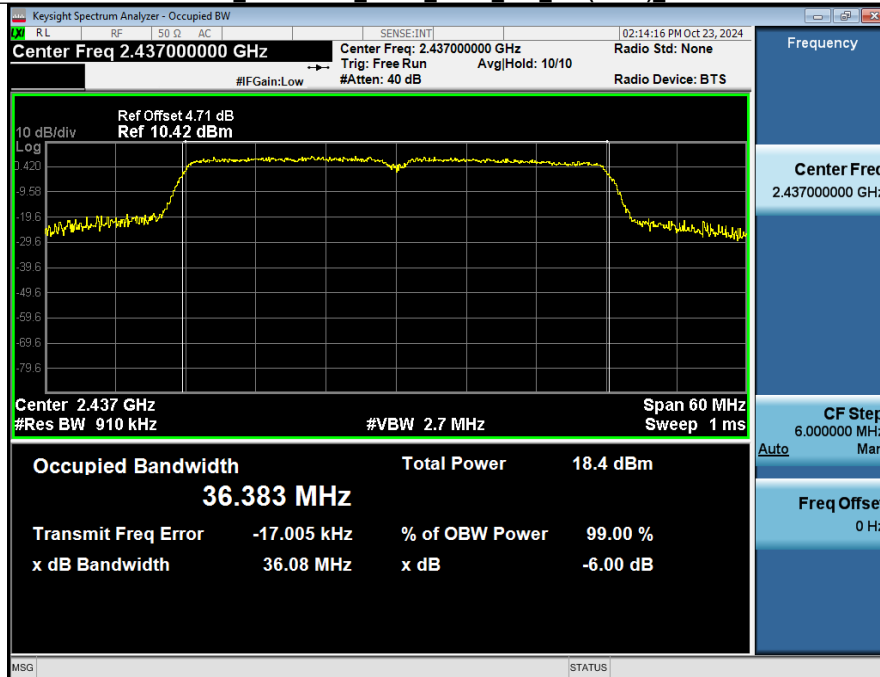
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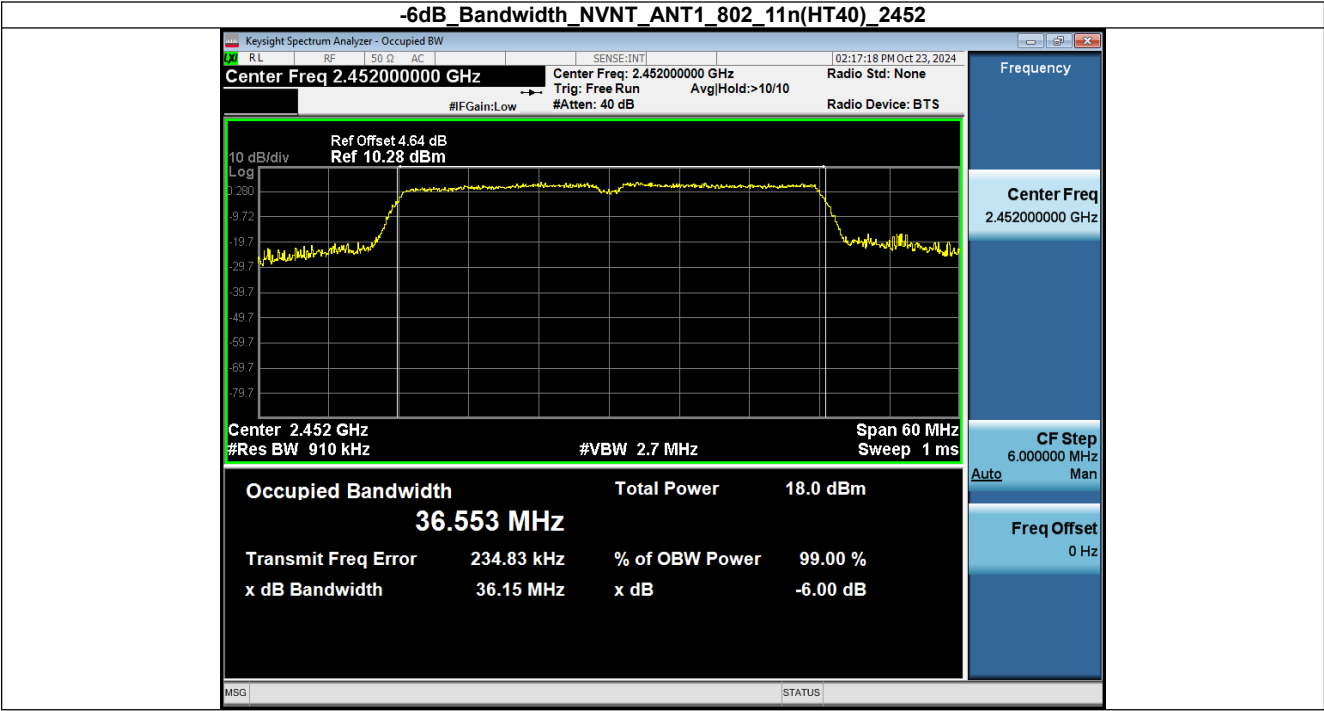


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



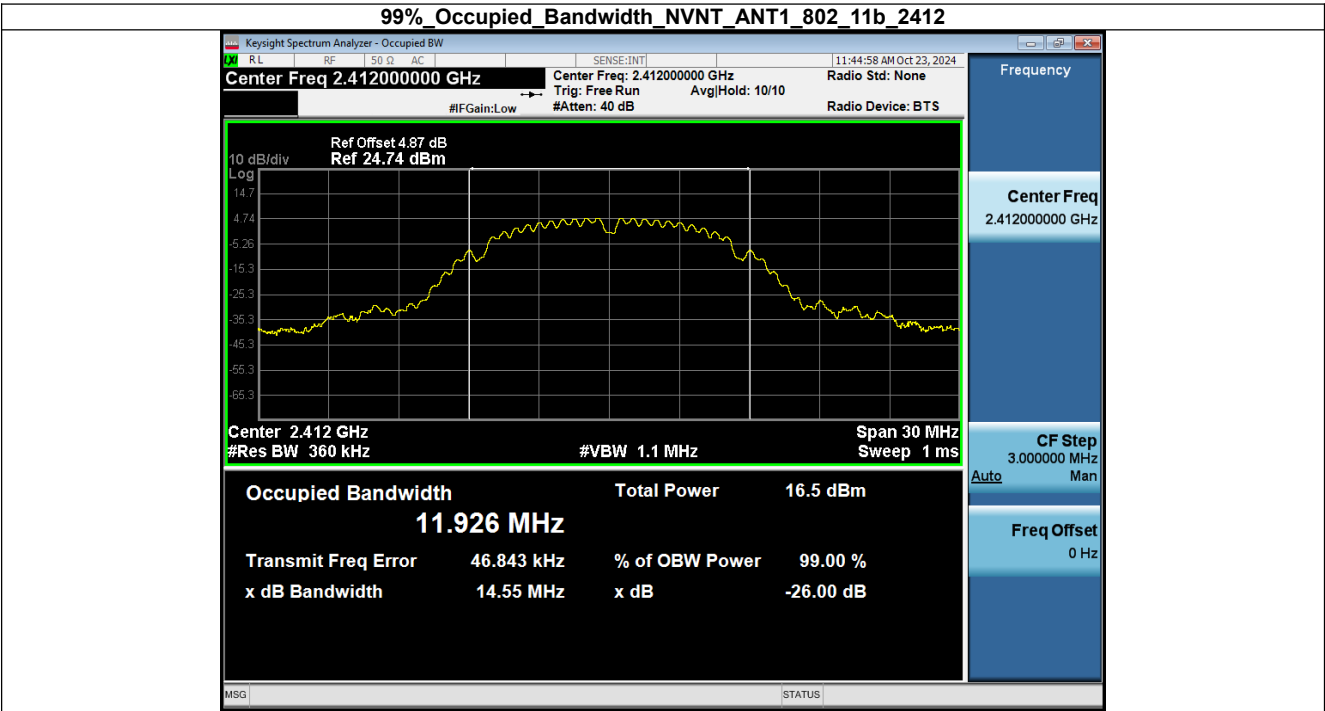
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



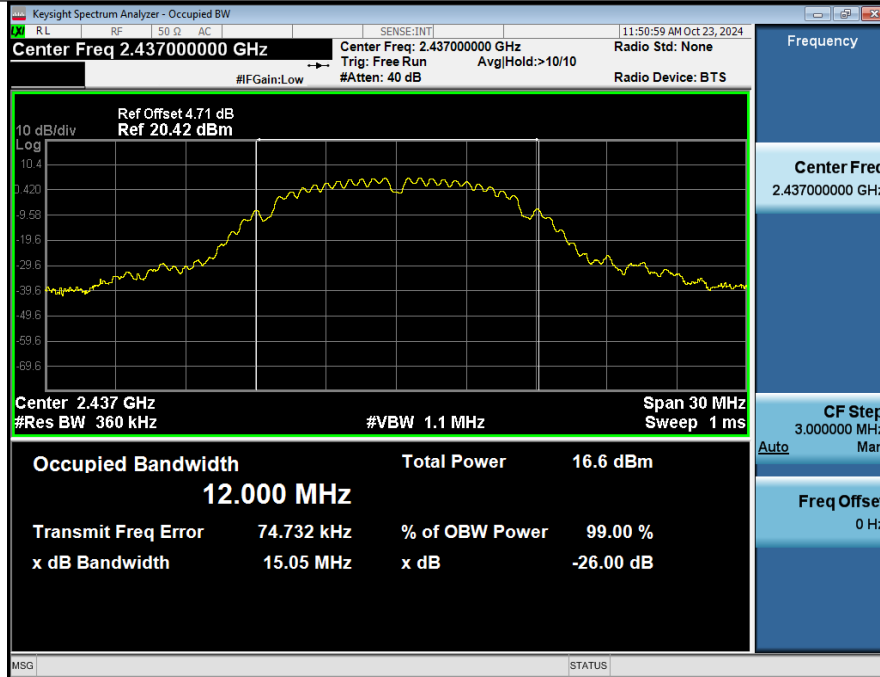


2. 99% Occupied Bandwidth

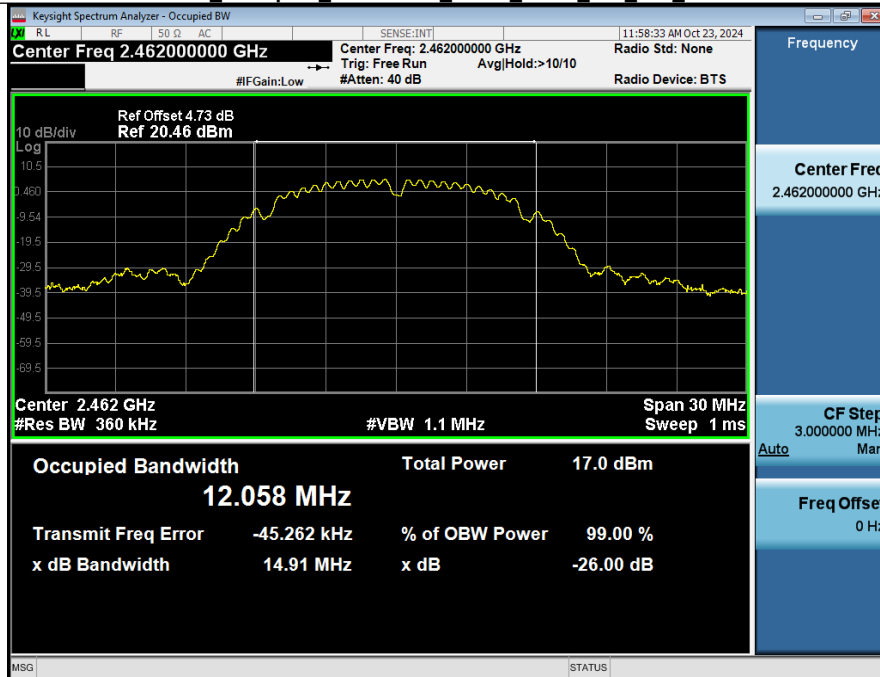
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.926
NVNT	ANT1	802.11b	2437.00	12.000
NVNT	ANT1	802.11b	2462.00	12.058
NVNT	ANT1	802.11g	2412.00	17.108
NVNT	ANT1	802.11g	2437.00	17.204
NVNT	ANT1	802.11g	2462.00	17.170
NVNT	ANT1	802.11n(HT20)	2412.00	17.827
NVNT	ANT1	802.11n(HT20)	2437.00	17.866
NVNT	ANT1	802.11n(HT20)	2462.00	17.850
NVNT	ANT1	802.11n(HT40)	2422.00	36.512
NVNT	ANT1	802.11n(HT40)	2437.00	36.417
NVNT	ANT1	802.11n(HT40)	2452.00	36.632



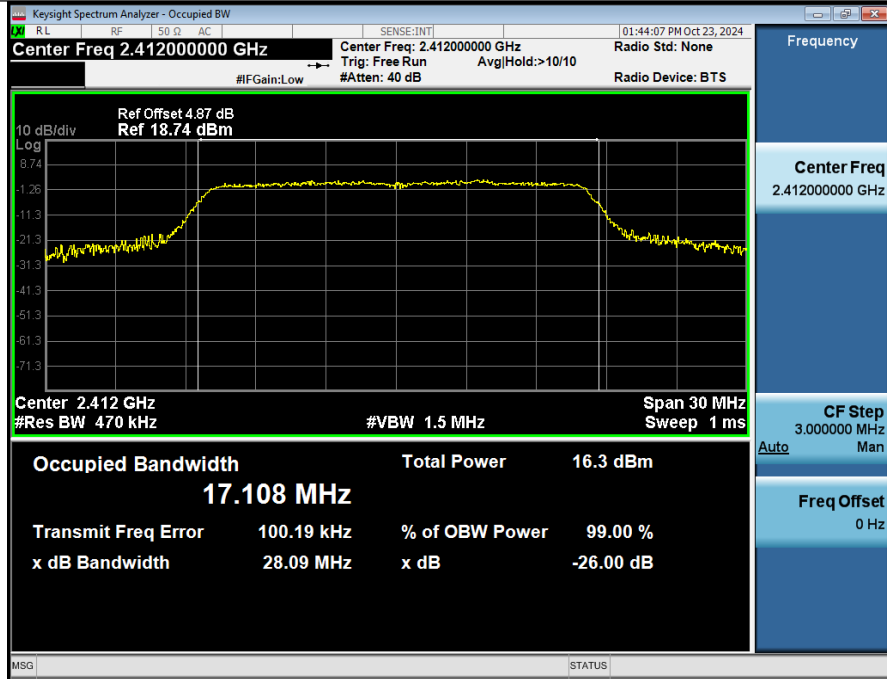
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



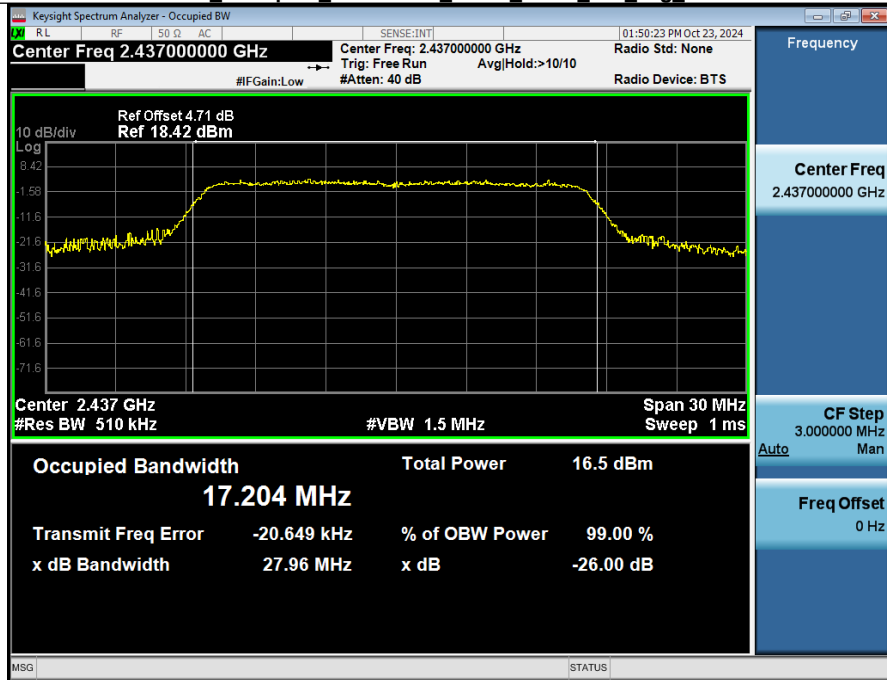
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



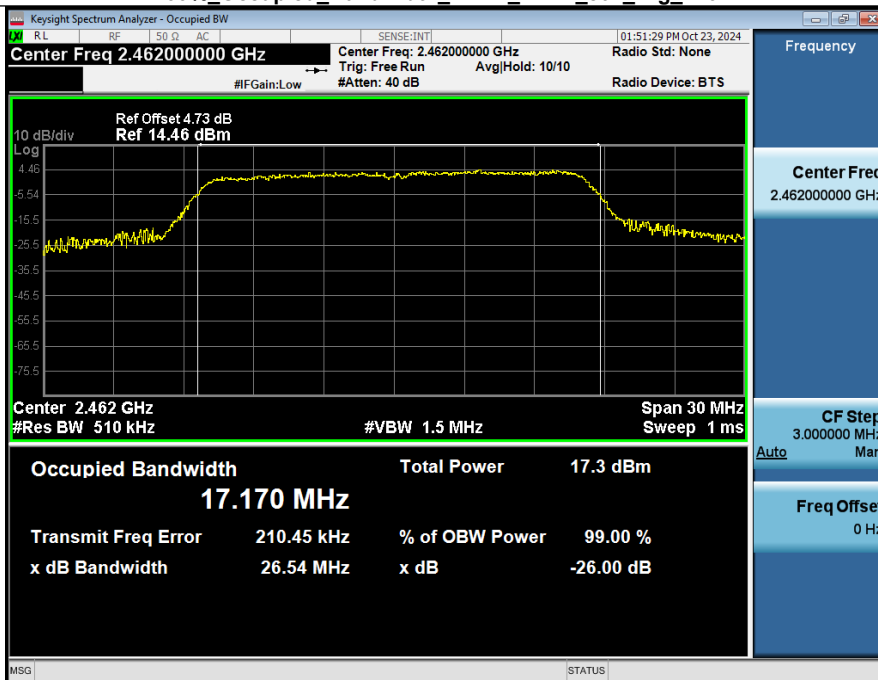
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



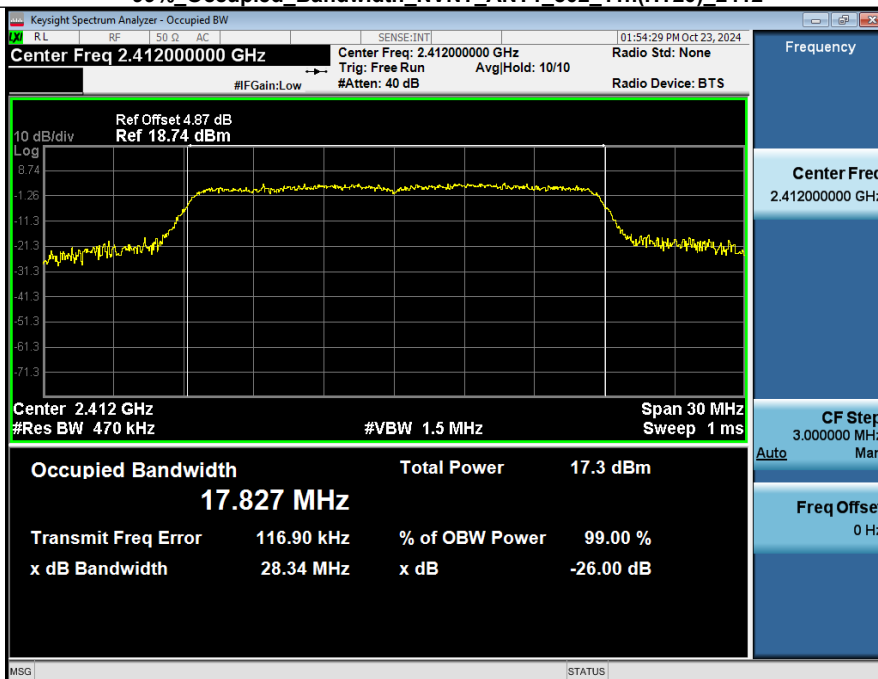
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437

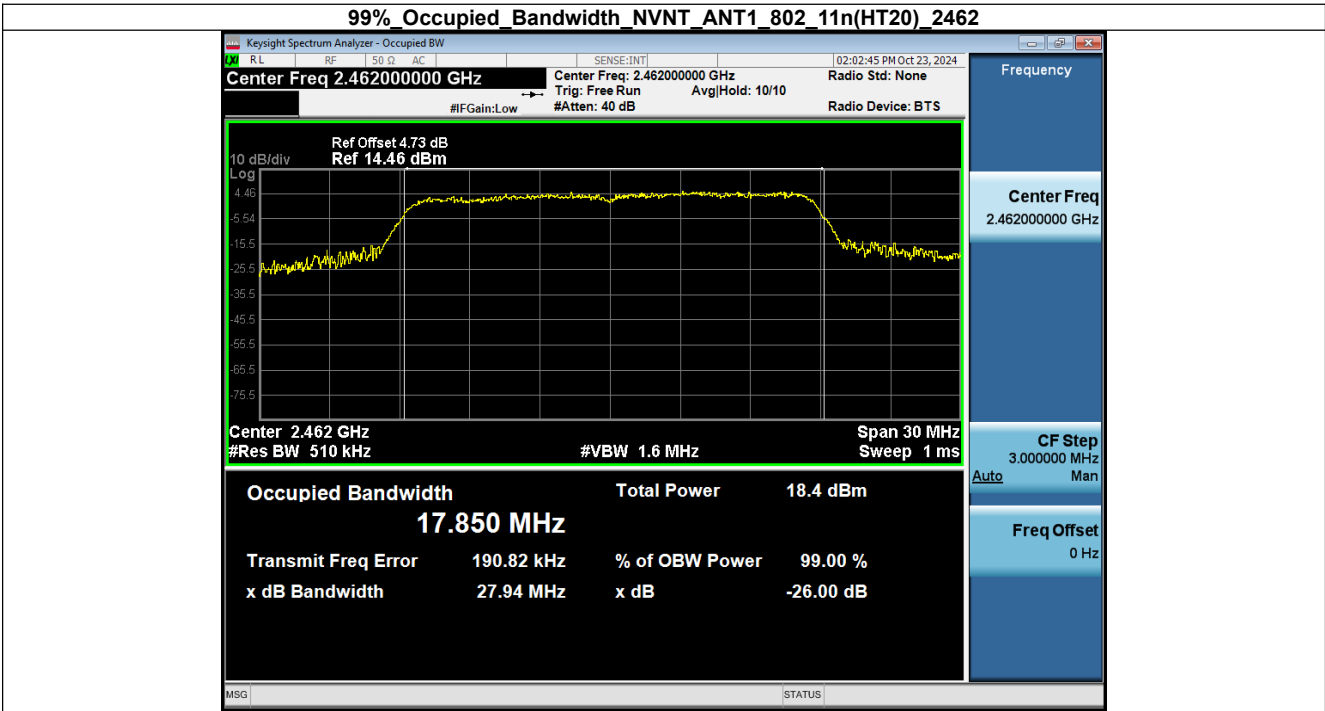
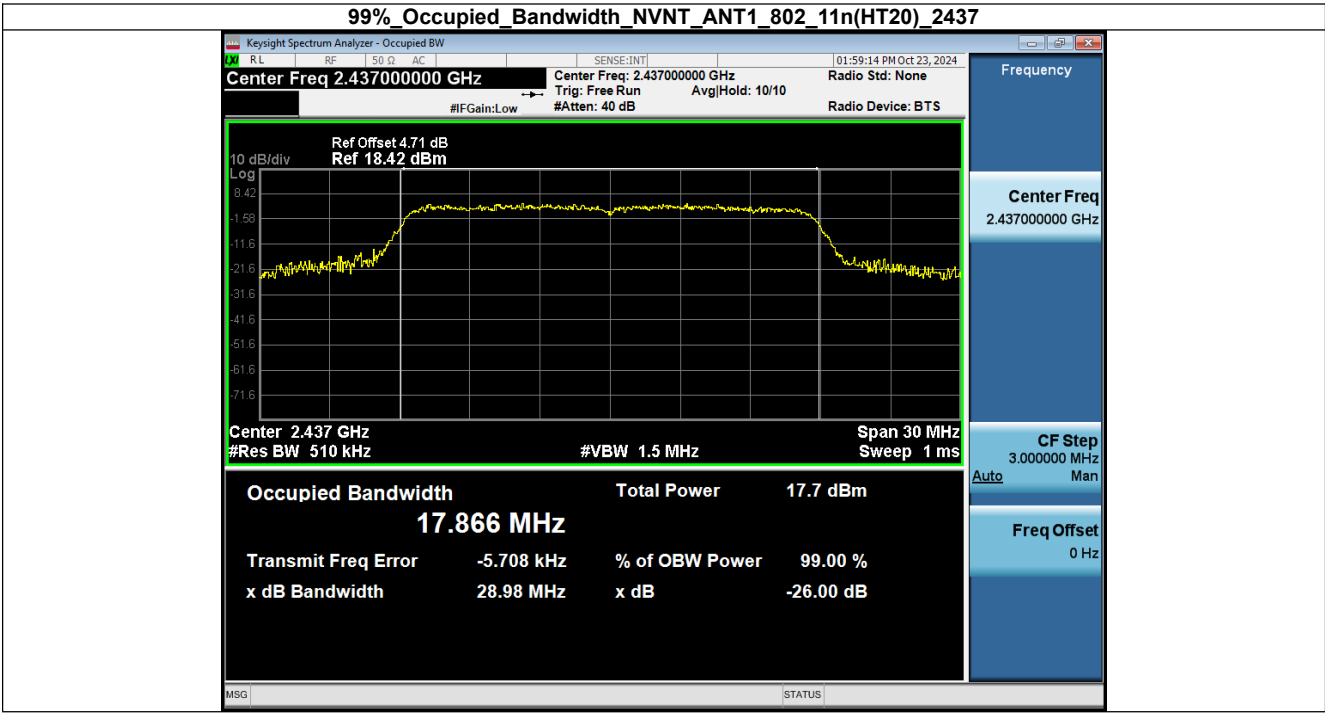


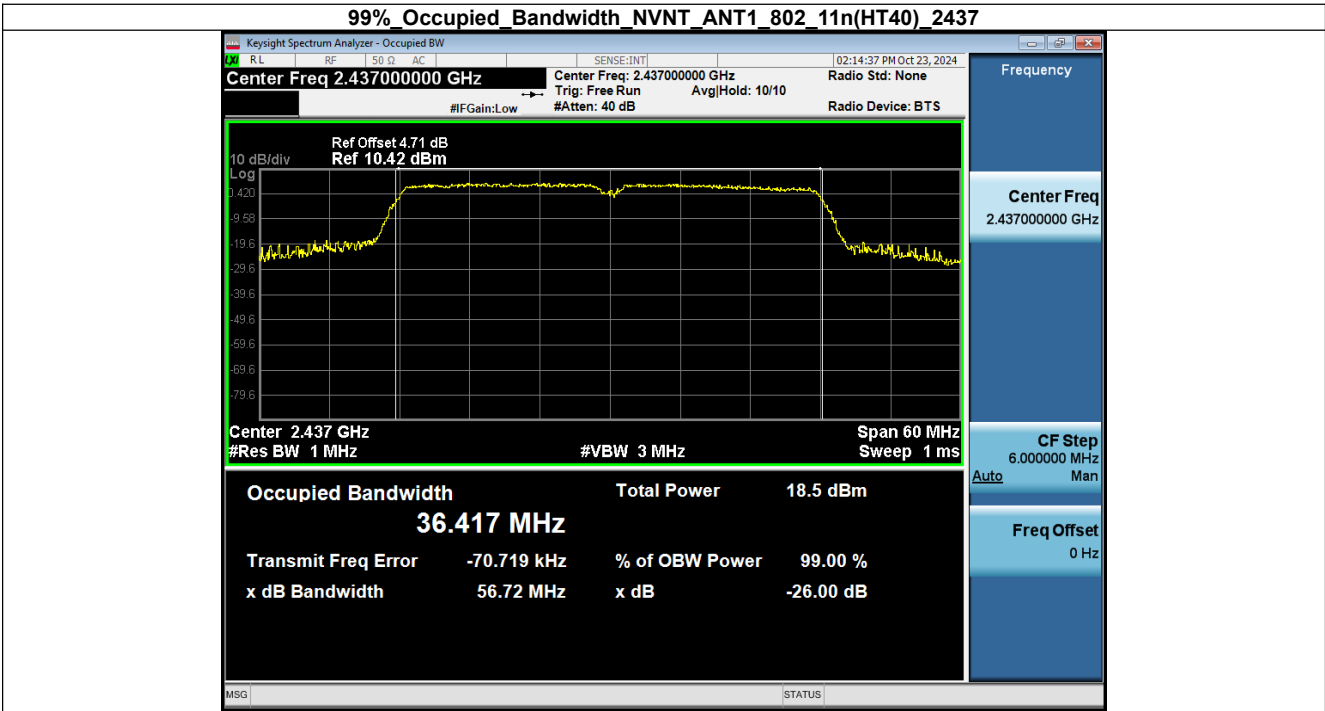
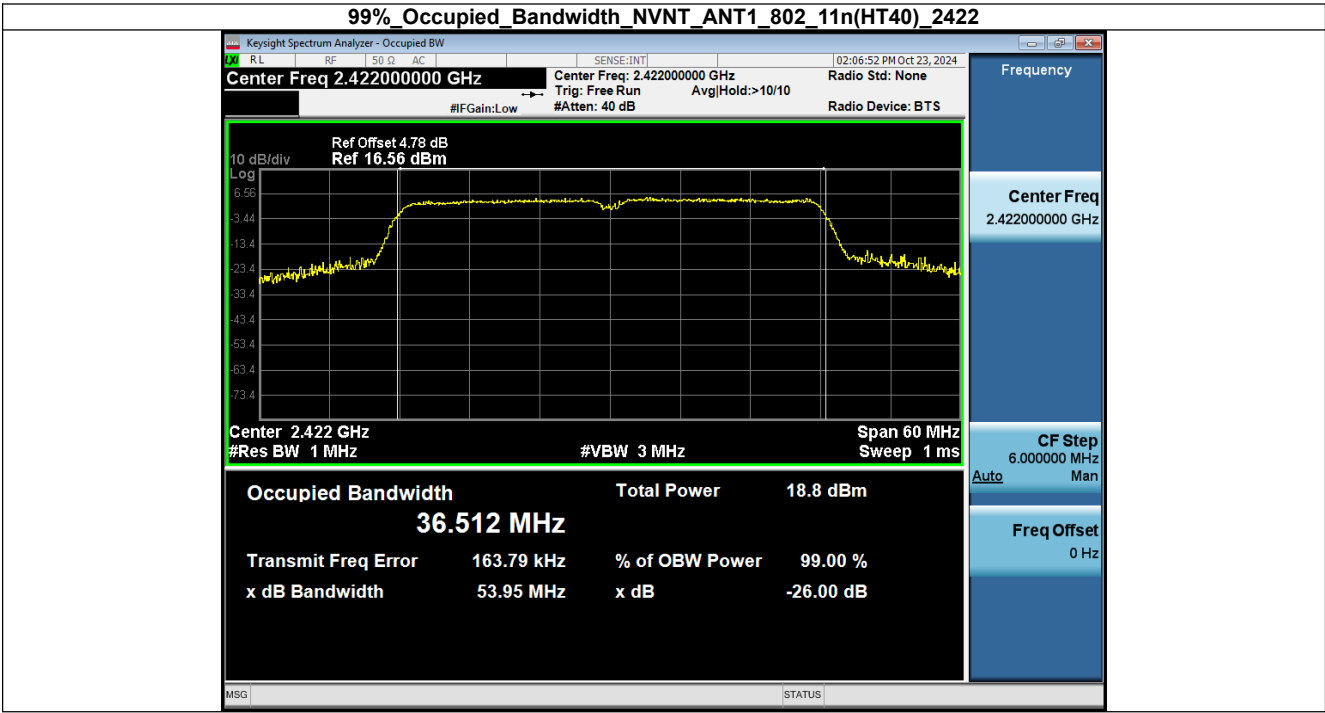
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462

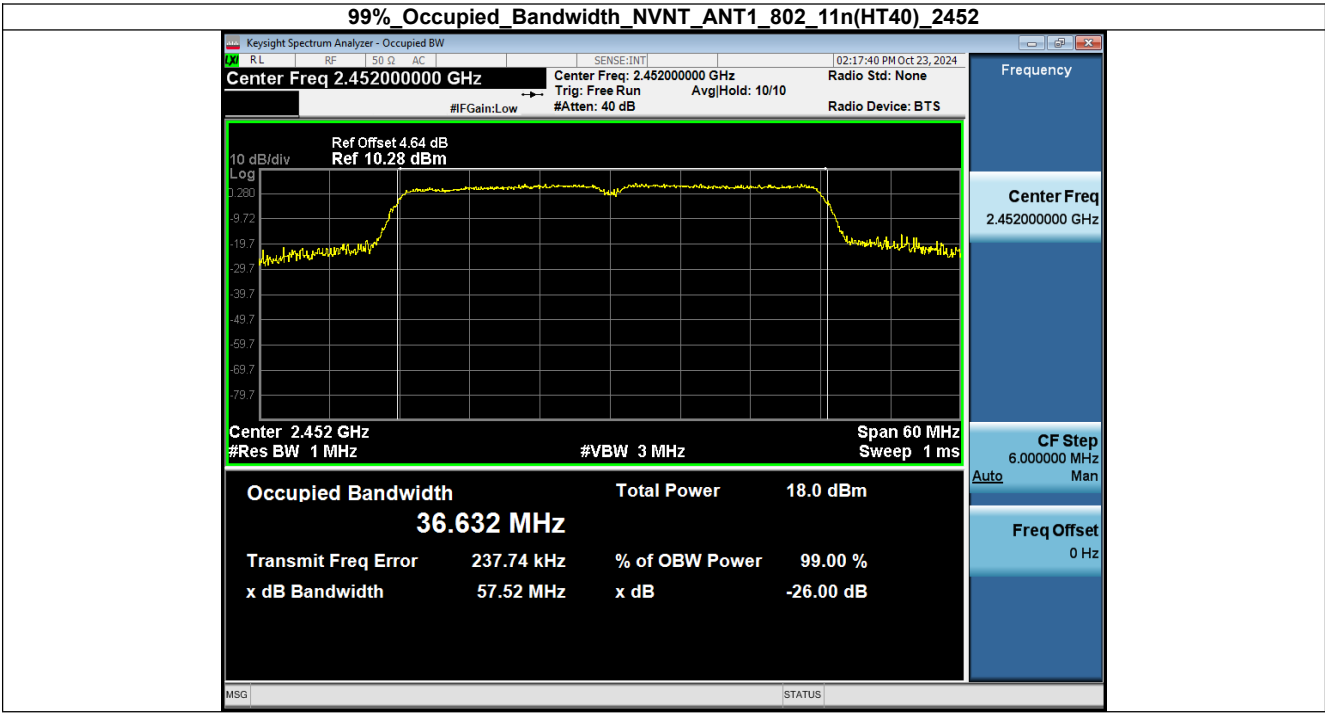


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



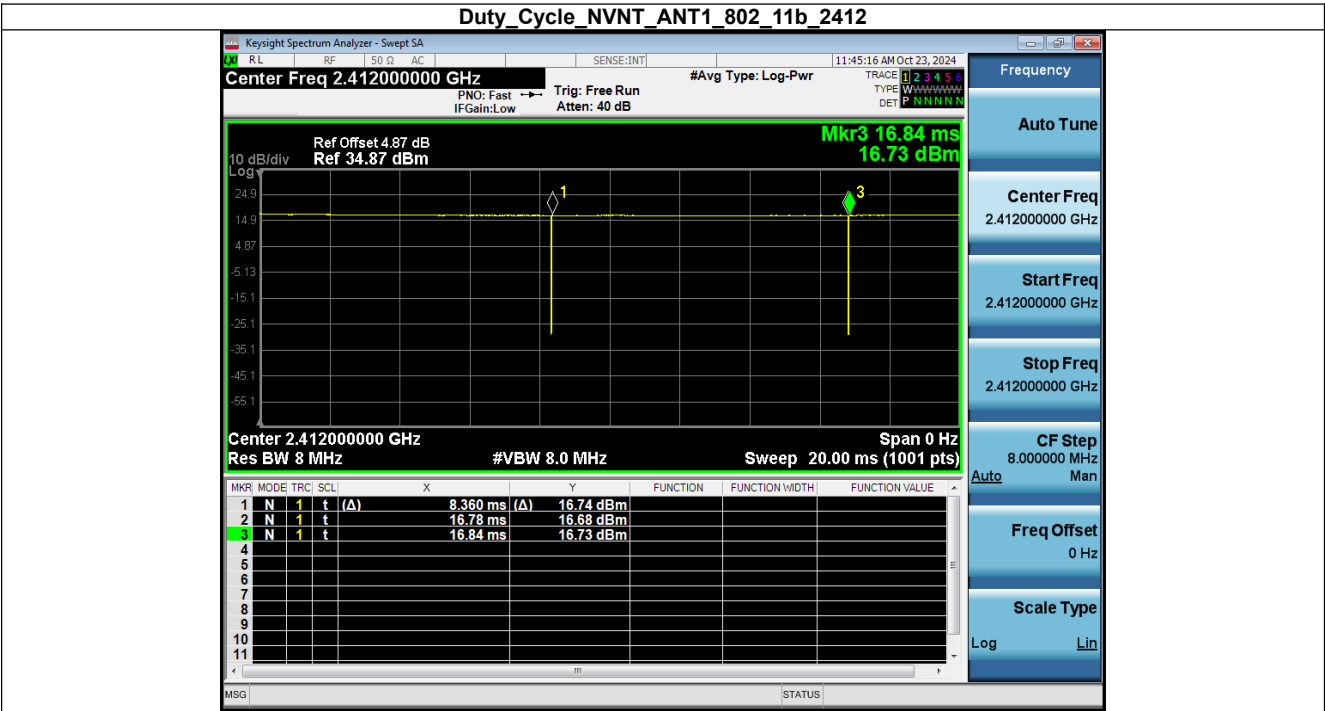




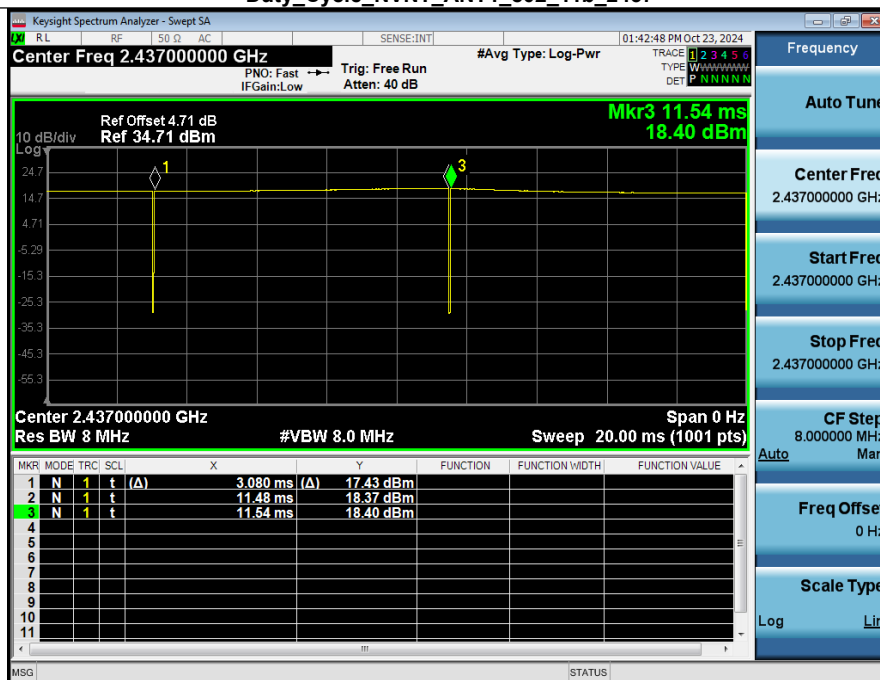


3. Duty Cycle

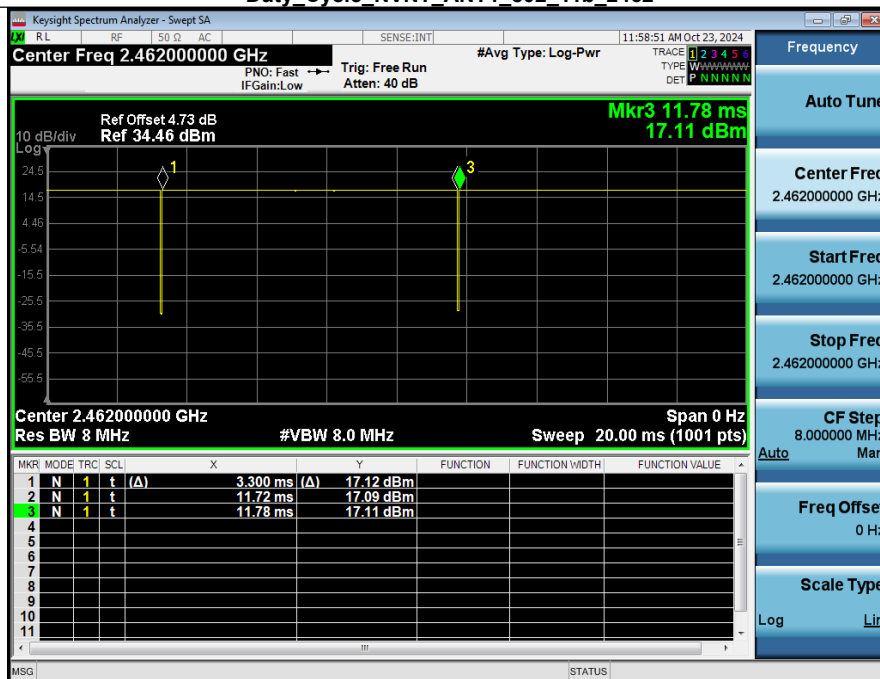
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	98.61	0.00
NVNT	ANT1	802.11g	2462.00	98.61	0.00
NVNT	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	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2437.00	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



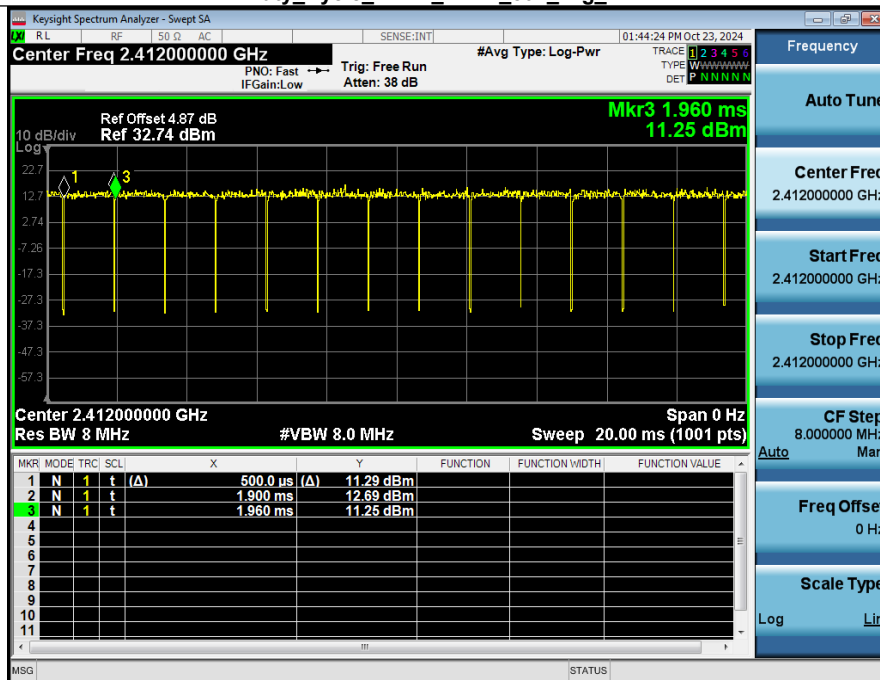
Duty Cycle NVNT_ANT1_802_11b_2437



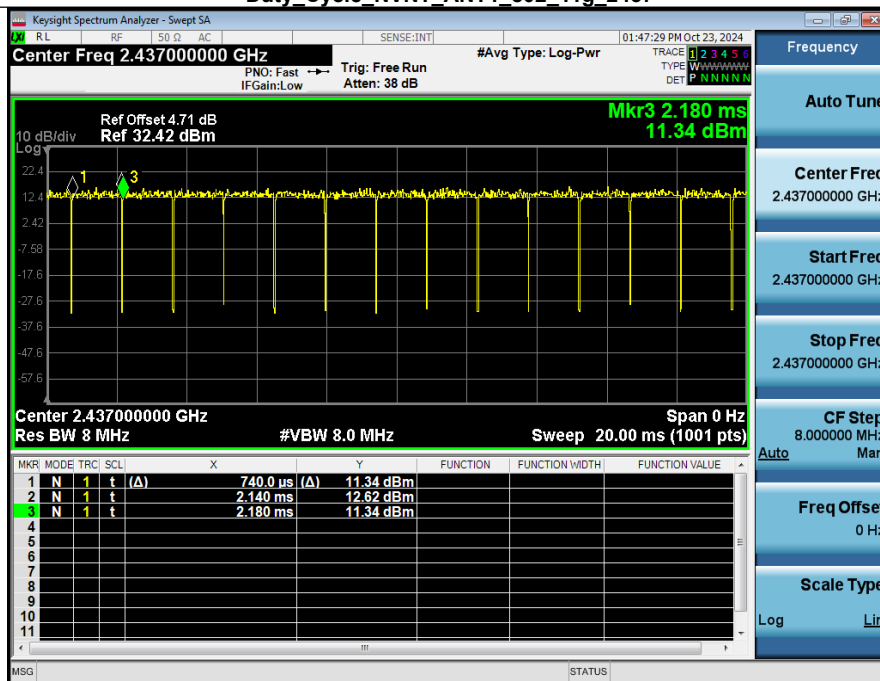
Duty Cycle NVNT_ANT1_802_11b_2462



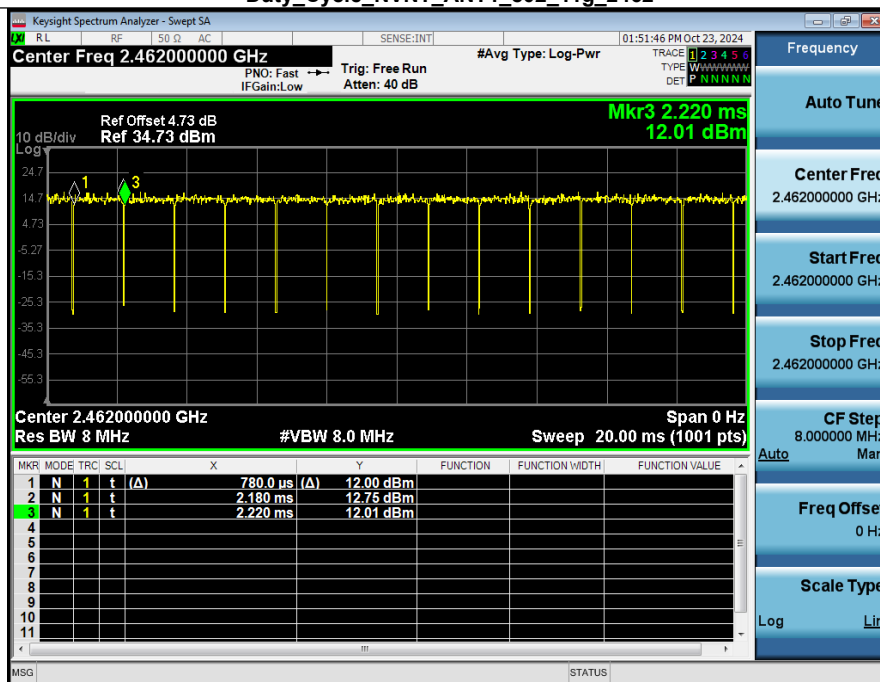
Duty Cycle NVNT_ANT1_802_11g_2412



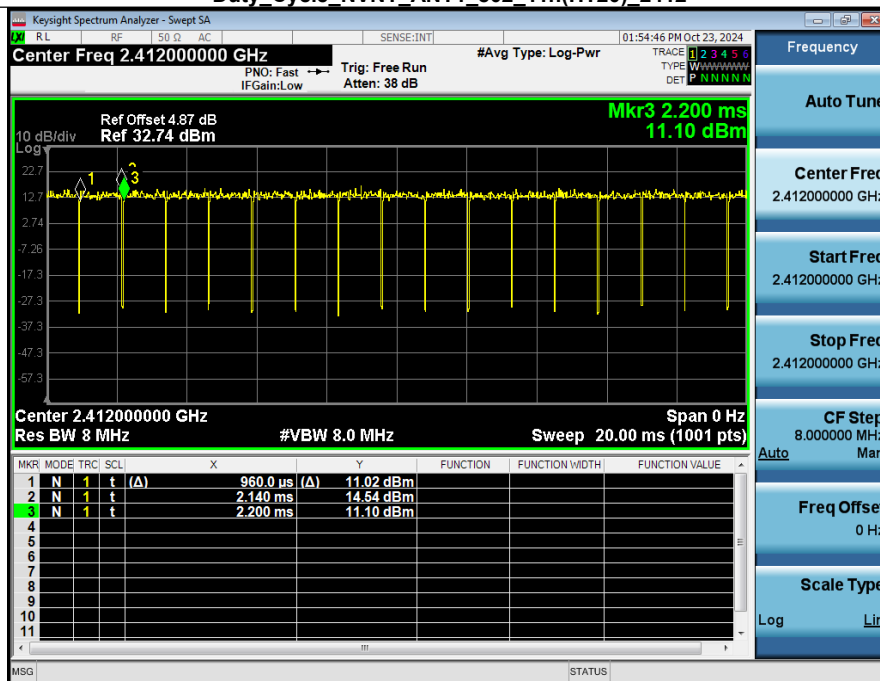
Duty Cycle NVNT_ANT1_802_11g_2437



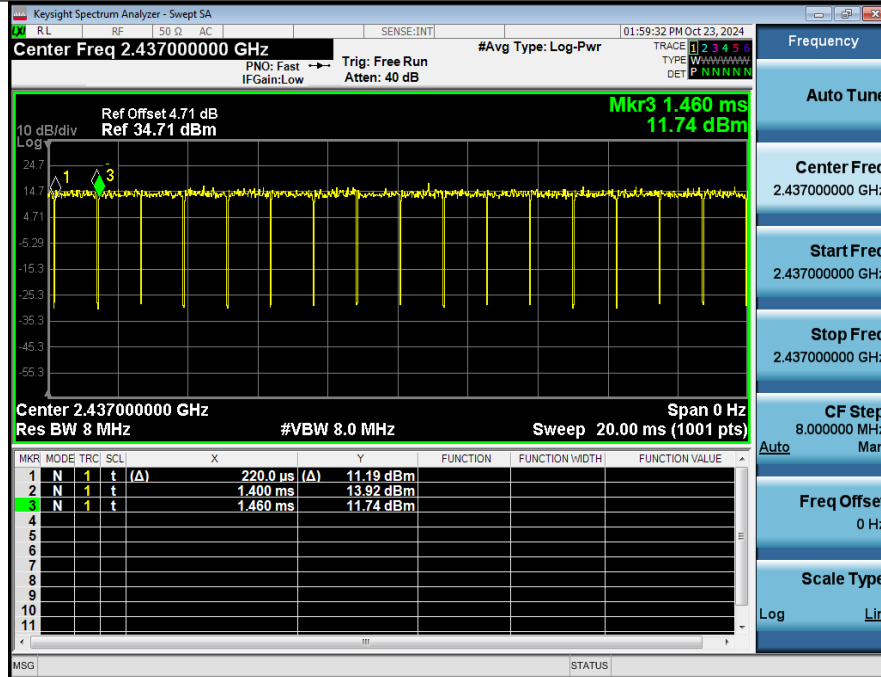
Duty Cycle NVNT_ANT1_802_11g_2462



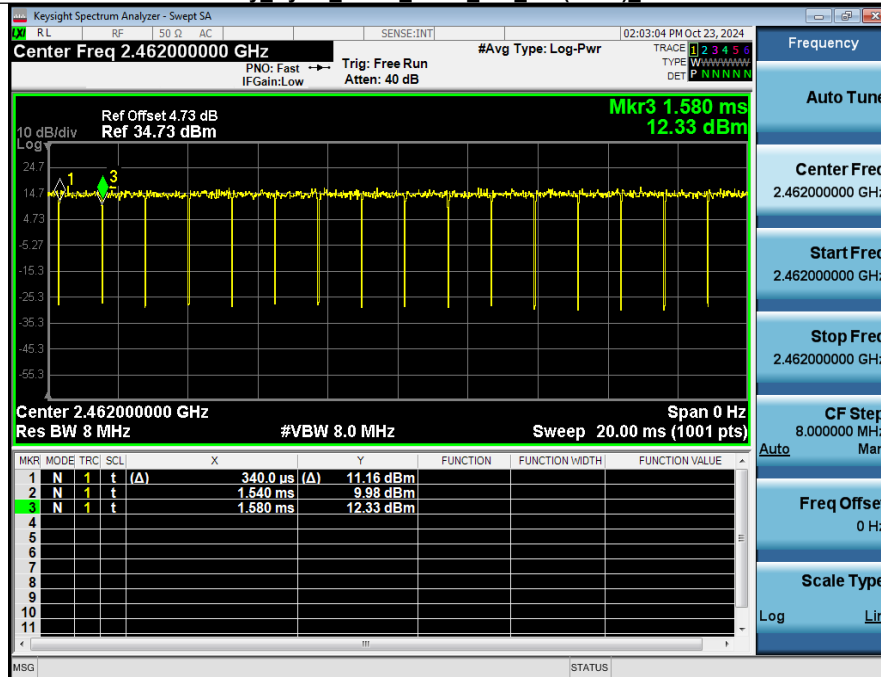
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



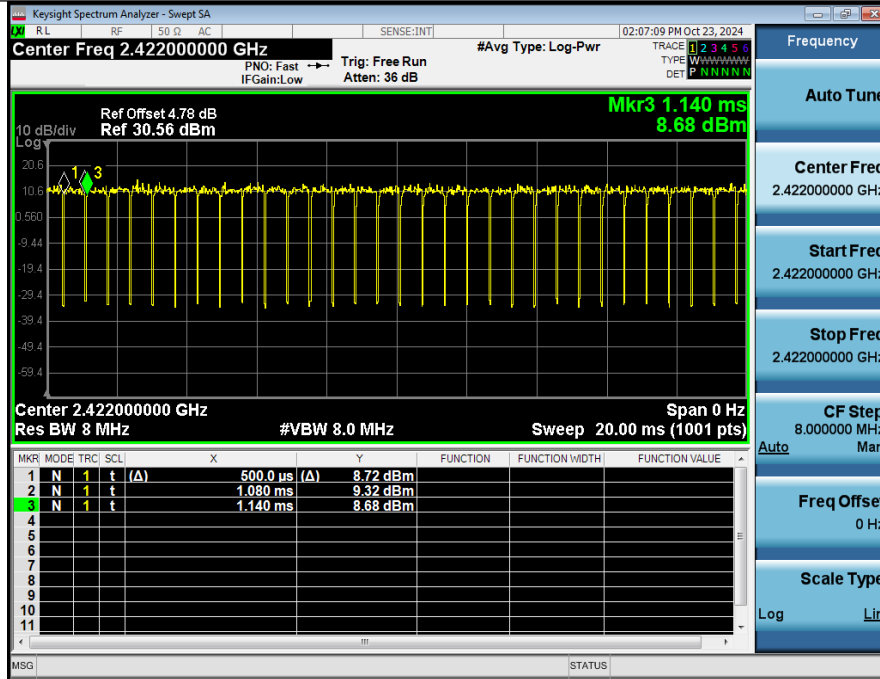
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



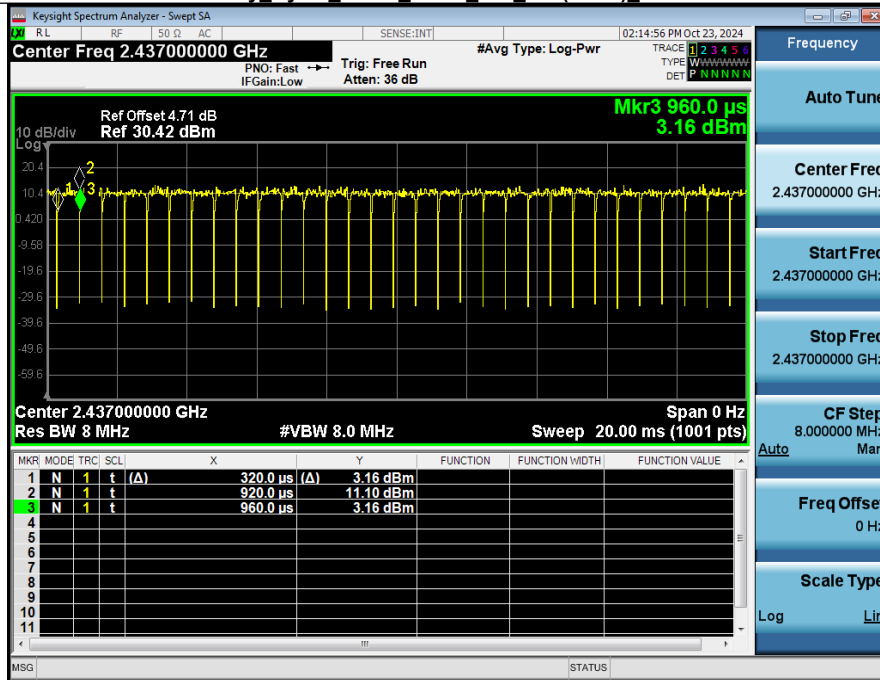
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



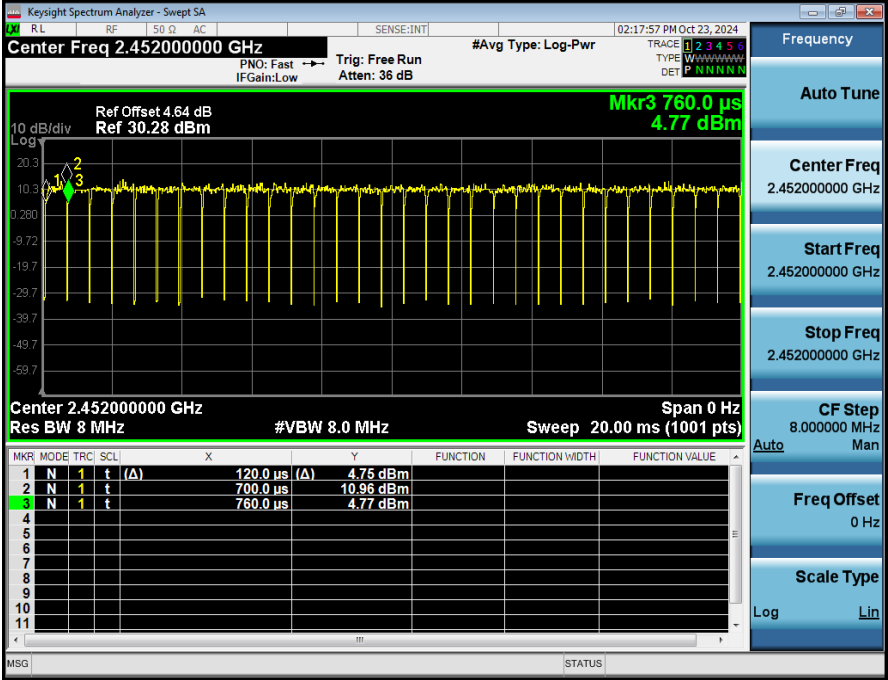
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437



Duty Cycle NVNT_ANT1_802_11n(HT40)_2452

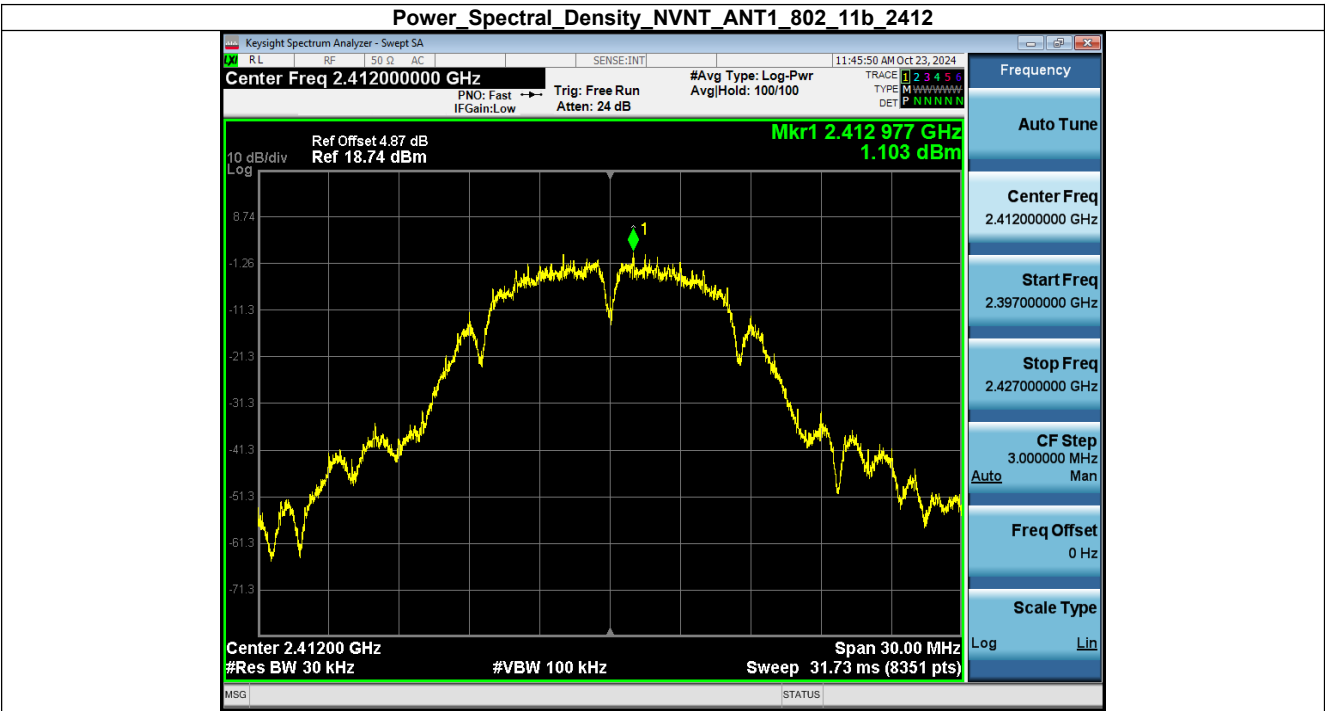


4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	16.11	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	16.22	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	16.59	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	16.95	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	17.26	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	17.96	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	17.54	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	17.84	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	18.48	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	18.42	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	18.15	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	17.68	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	1.10	-10.00	-8.90	8	Pass
NVNT	ANT1	802.11b	2437.00	0.71	-10.00	-9.29	8	Pass
NVNT	ANT1	802.11b	2462.00	1.31	-10.00	-8.69	8	Pass
NVNT	ANT1	802.11g	2412.00	-6.49	-10.00	-16.49	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.92	-10.00	-15.92	8	Pass
NVNT	ANT1	802.11g	2462.00	-5.35	-10.00	-15.35	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-6.24	-10.00	-16.24	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-6.46	-10.00	-16.46	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-5.16	-10.00	-15.16	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-8.89	-10.00	-18.89	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-9.05	-10.00	-19.05	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-9.53	-10.00	-19.53	8	Pass



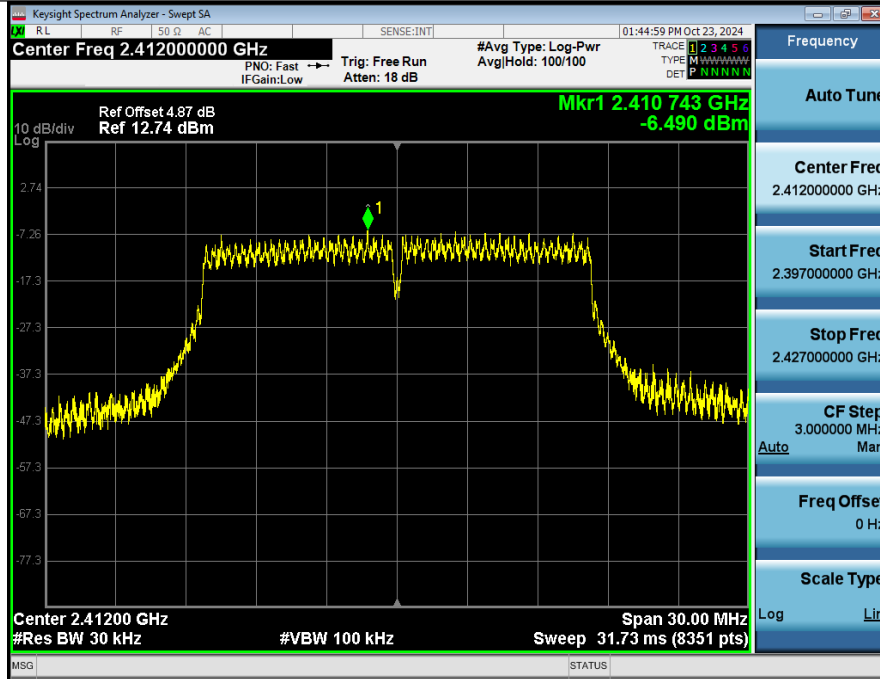
Power Spectral Density_NVNT_ANT1_802_11b_2437



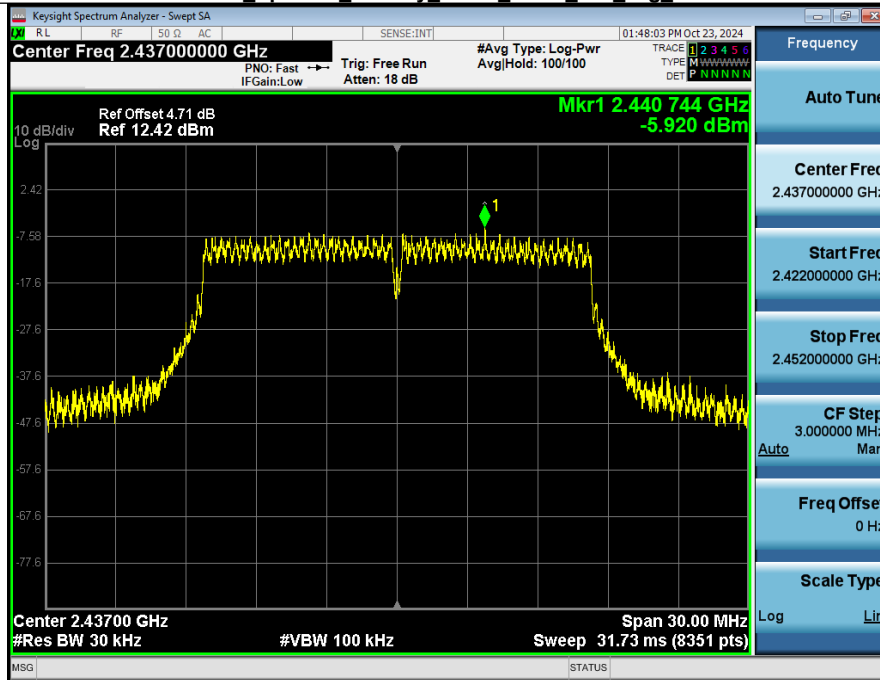
Power Spectral Density_NVNT_ANT1_802_11b_2462



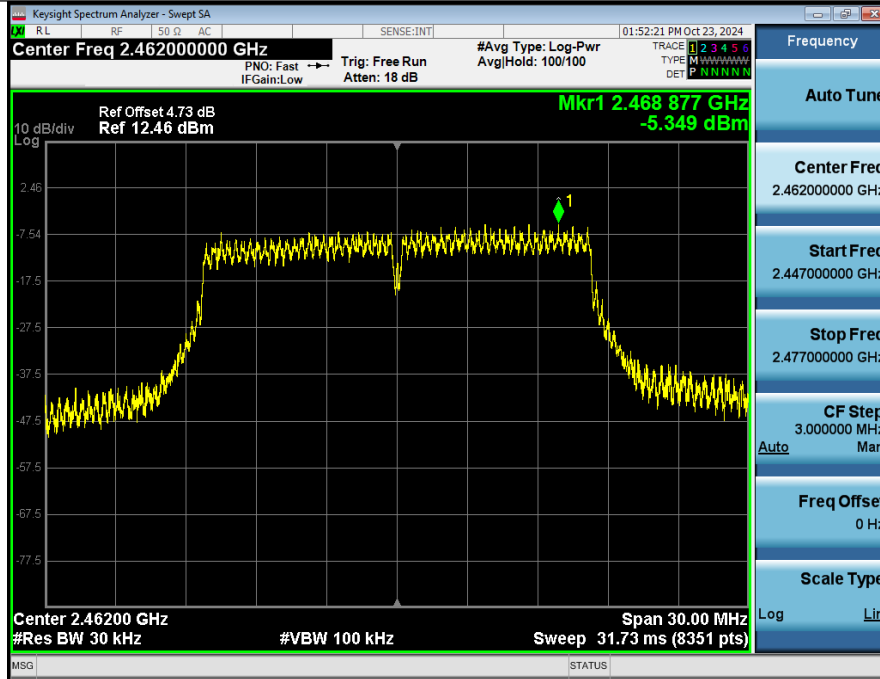
Power Spectral Density_NVNT_ANT1_802_11g_2412



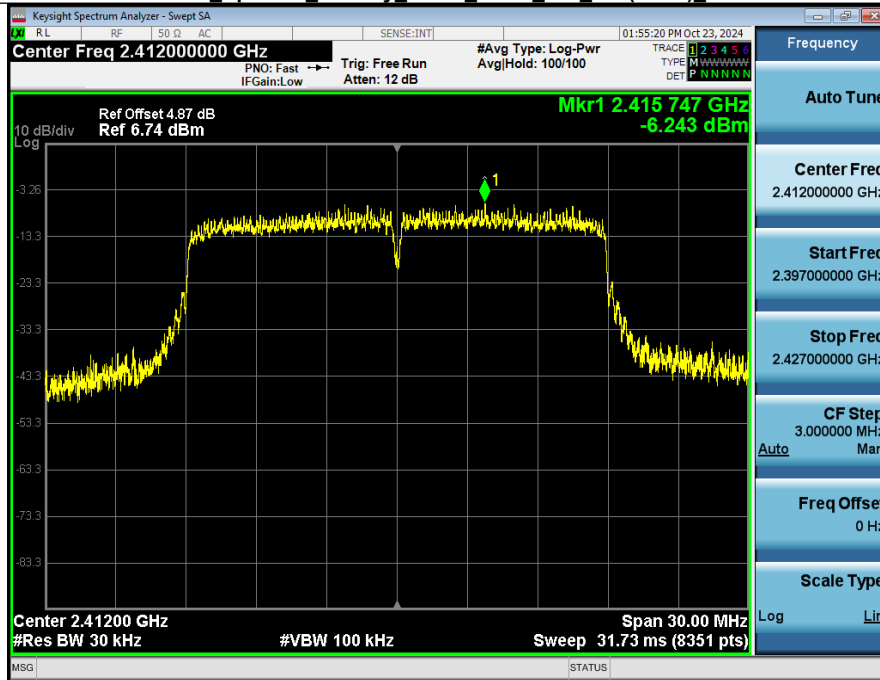
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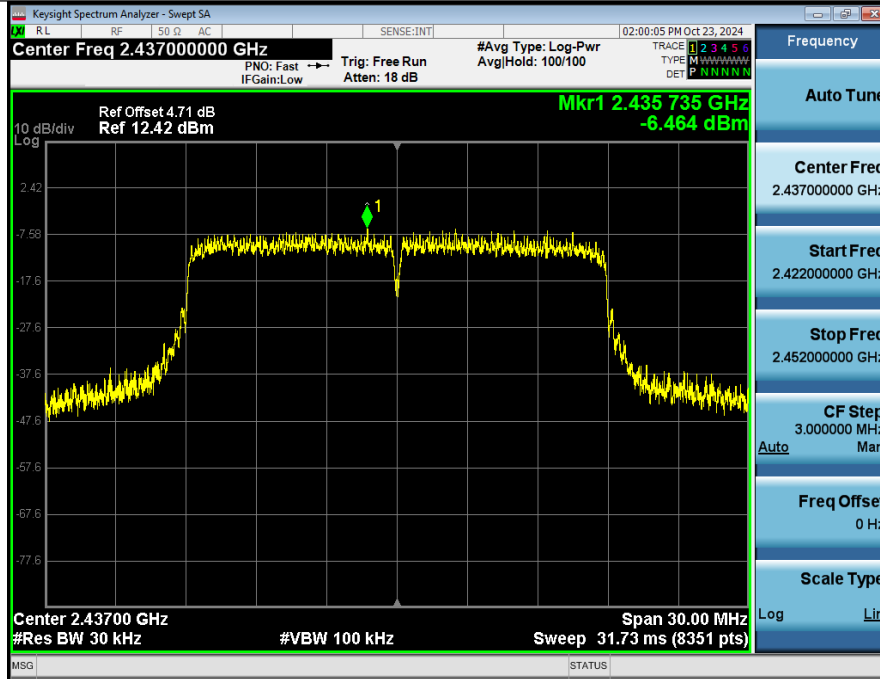
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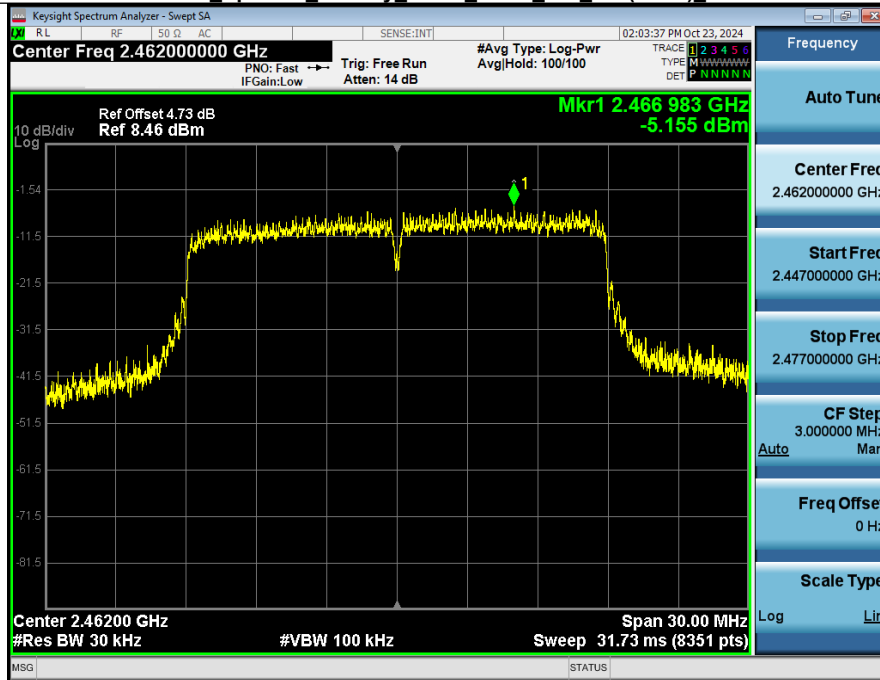
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



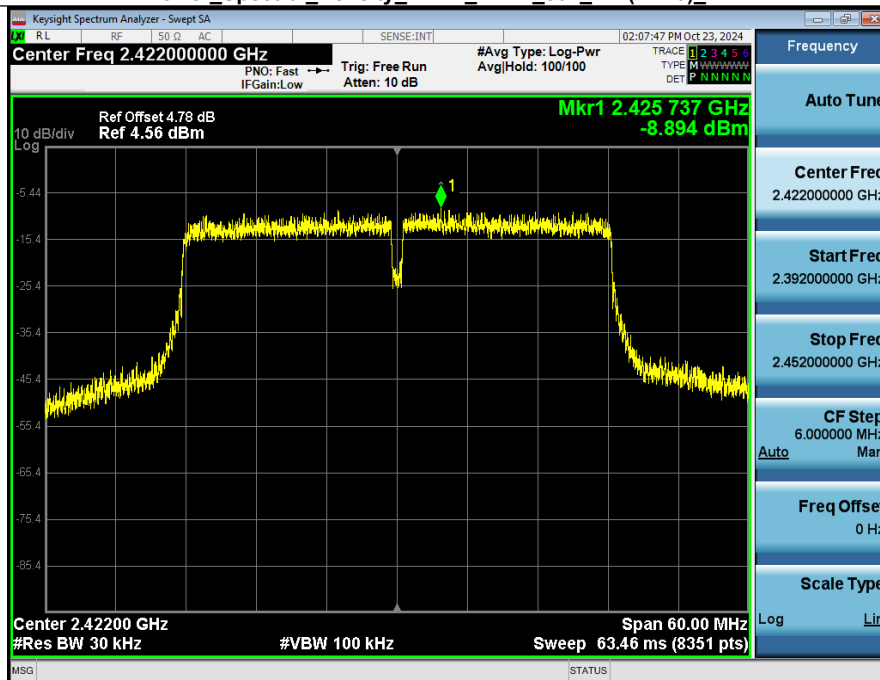
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437



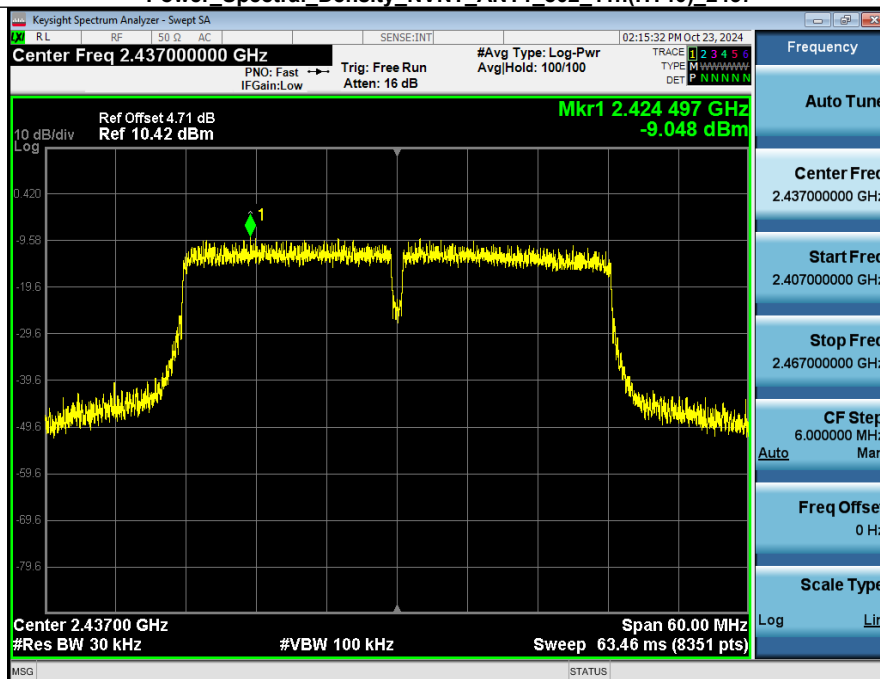
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2462



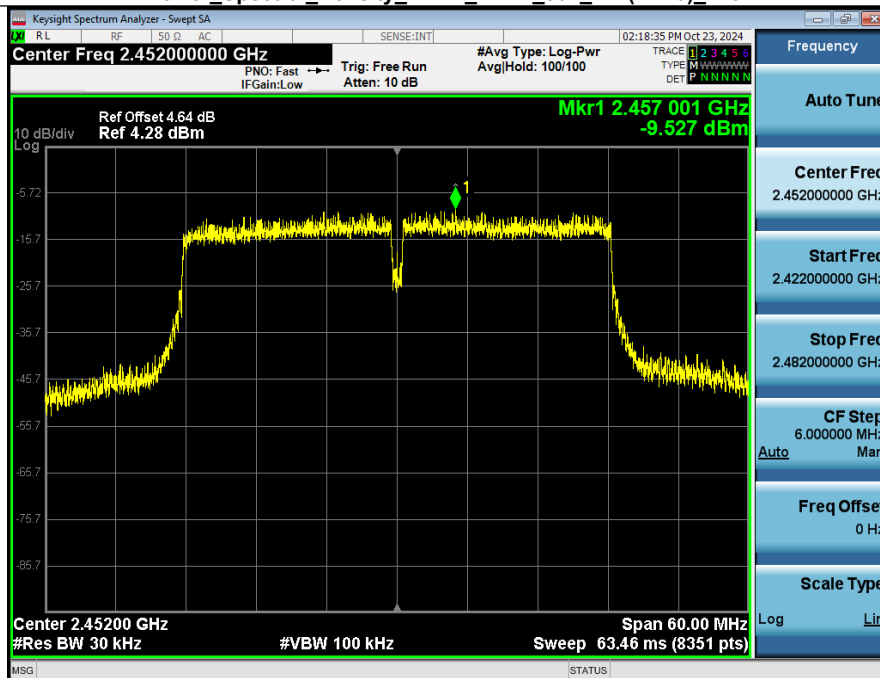
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437

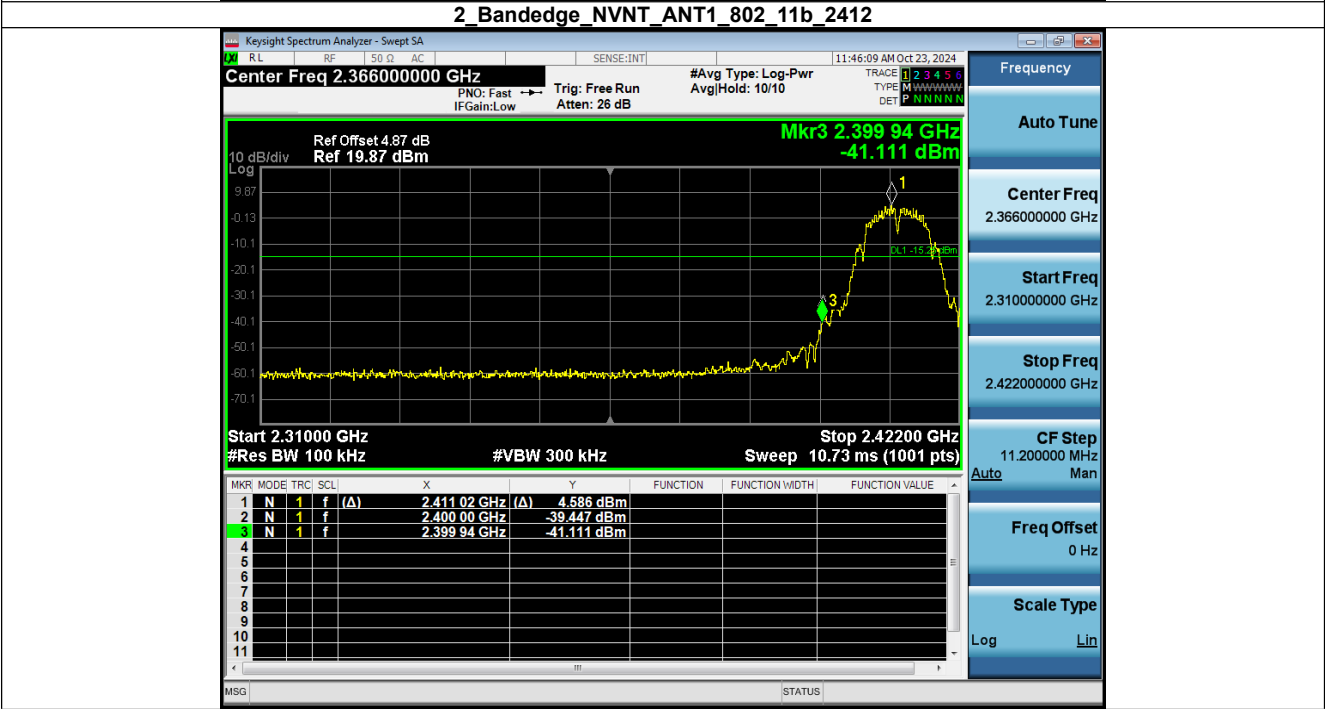


Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2452



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-41.111	-15.252	Pass
NVNT	ANT1	802.11b	2462.00	2483.536	-56.362	-14.795	Pass
NVNT	ANT1	802.11g	2412.00	2398.816	-33.626	-21.921	Pass
NVNT	ANT1	802.11g	2462.00	2483.632	-41.033	-21.674	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	-32.966	-21.825	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.776	-40.857	-20.526	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-36.570	-23.965	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-39.698	-24.623	Pass



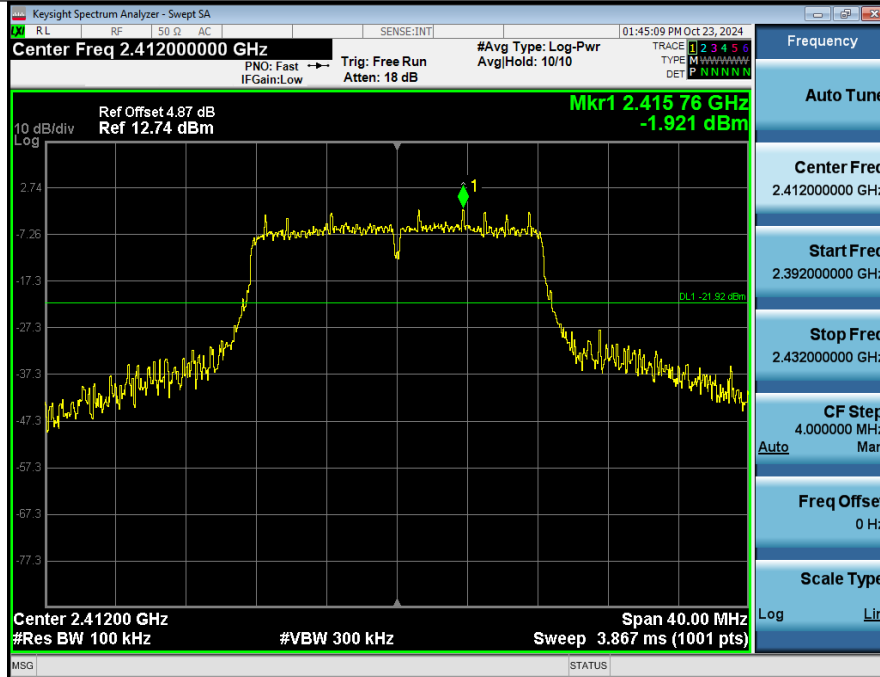
1 Reference Level_NVNT_ANT1_802_11b_2462



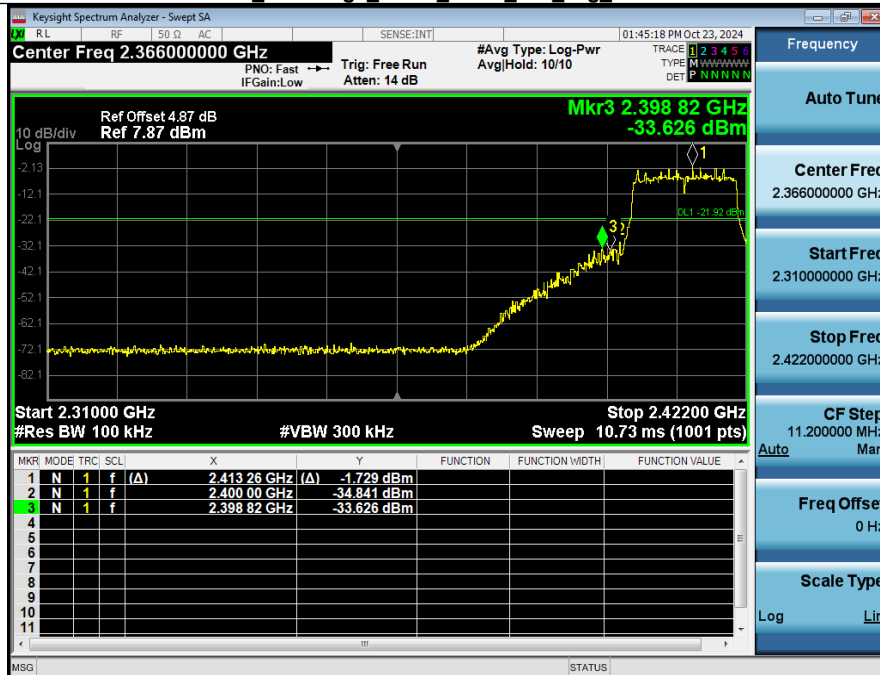
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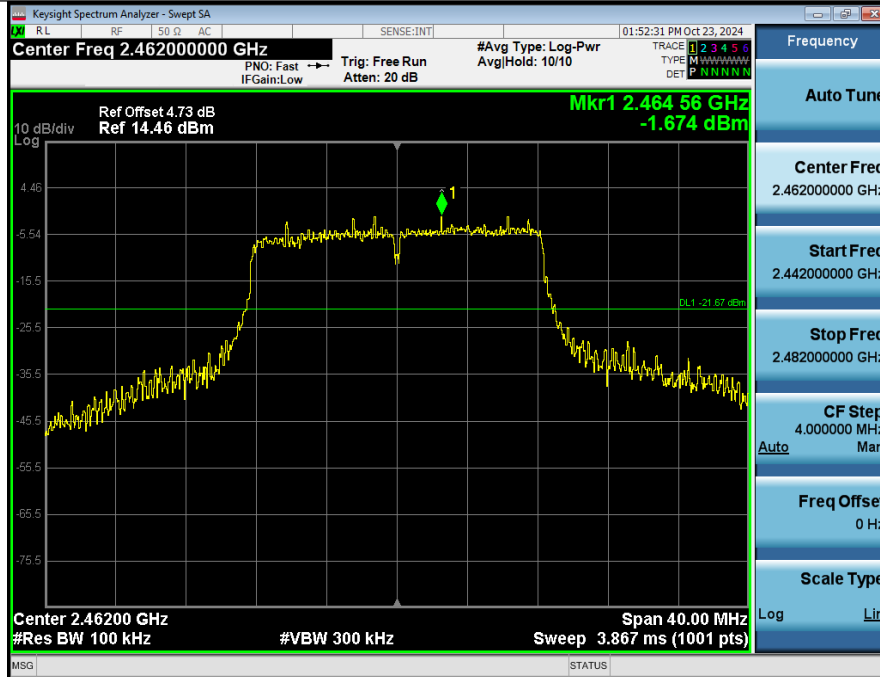
1 Reference Level_NVNT_ANT1_802_11g_2412



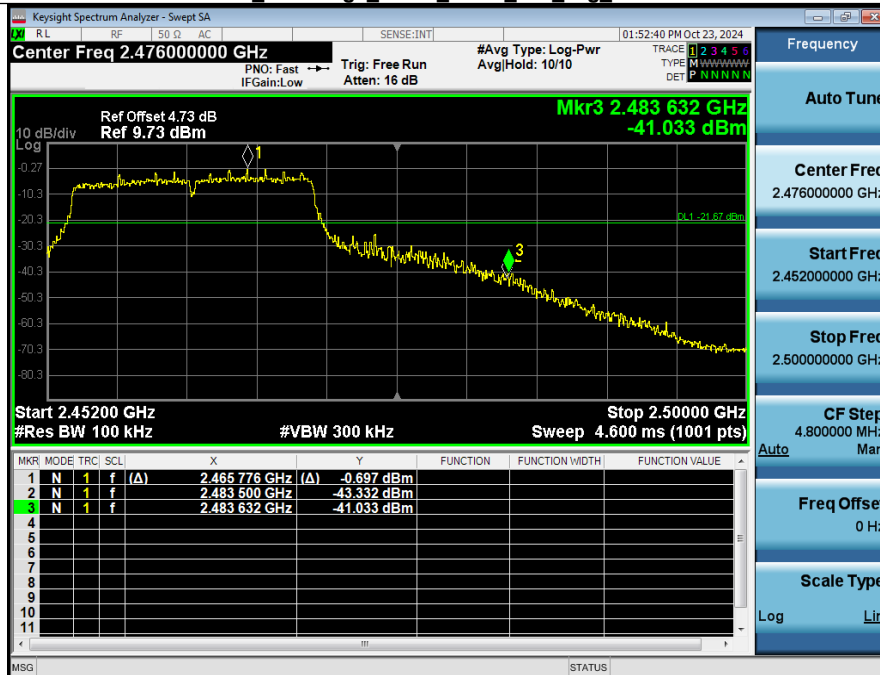
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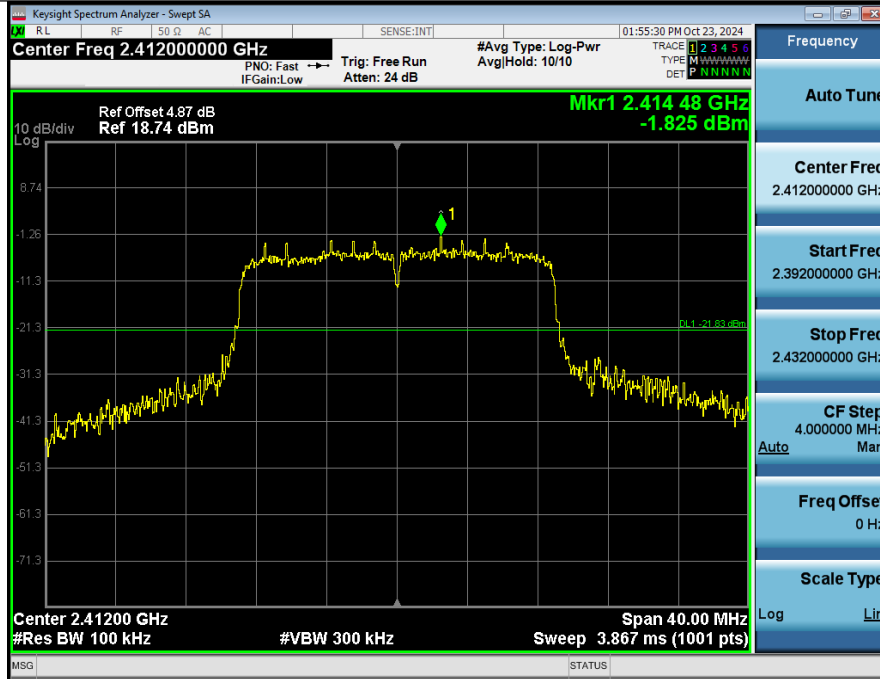
1 Reference Level_NVNT_ANT1_802_11g_2462



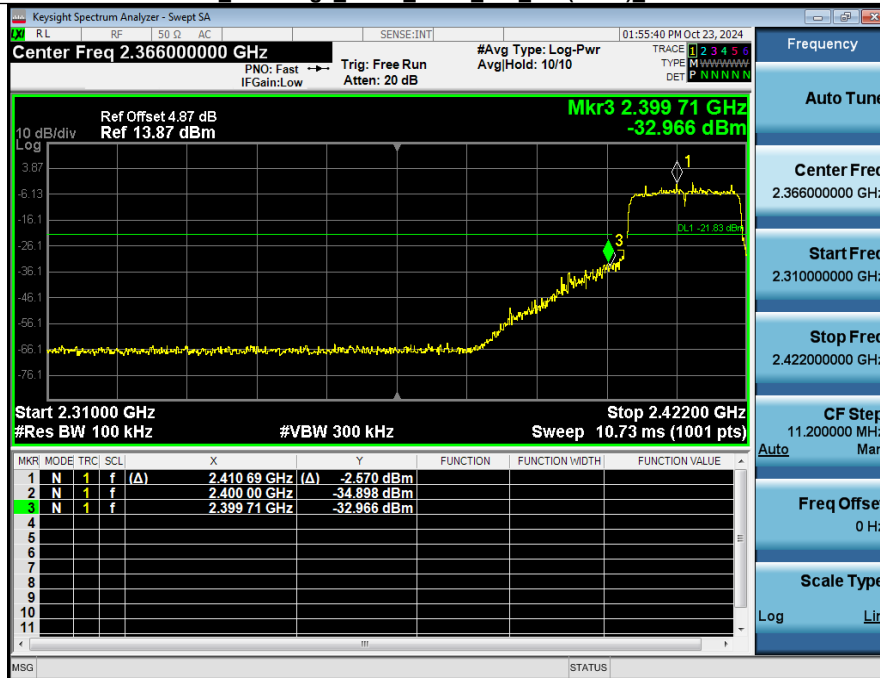
2 Bandedge_NVNT_ANT1_802_11g_2462



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



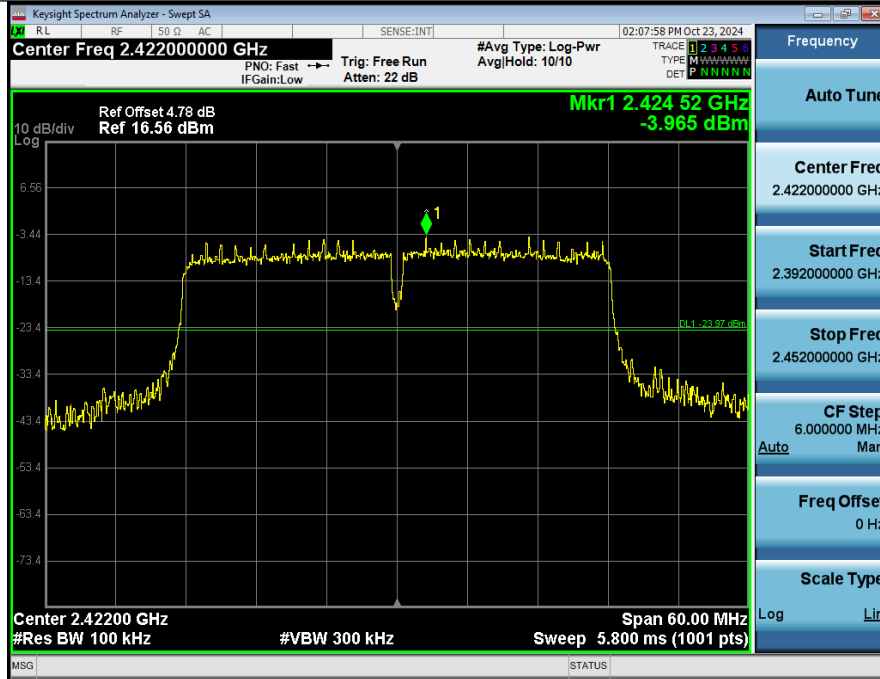
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



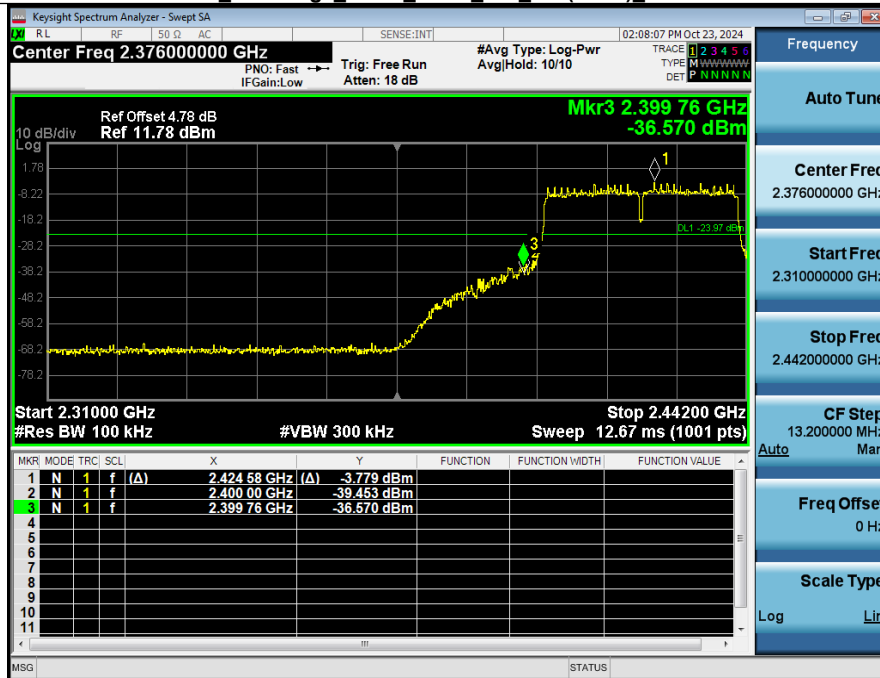
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



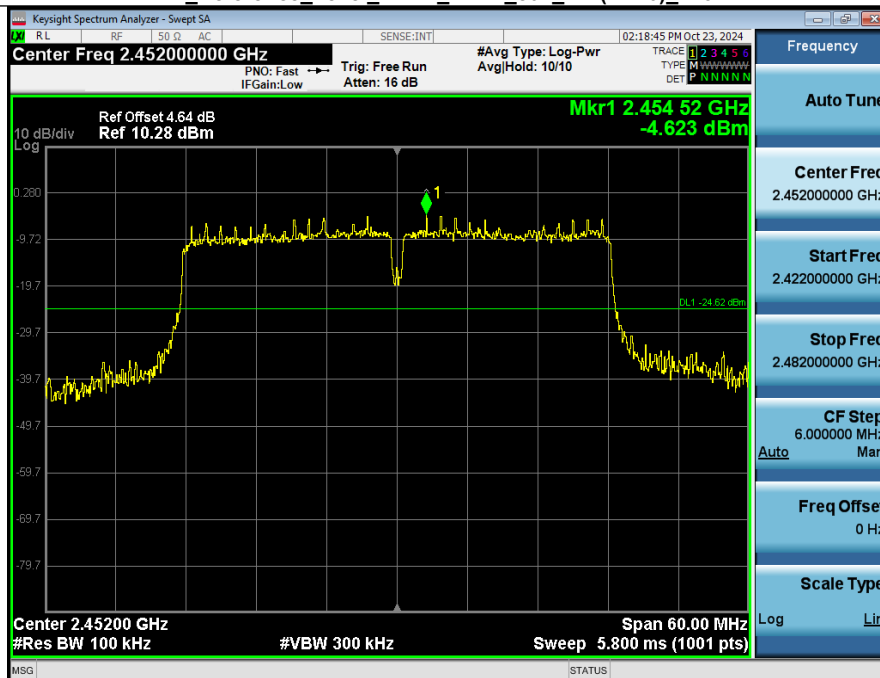
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452

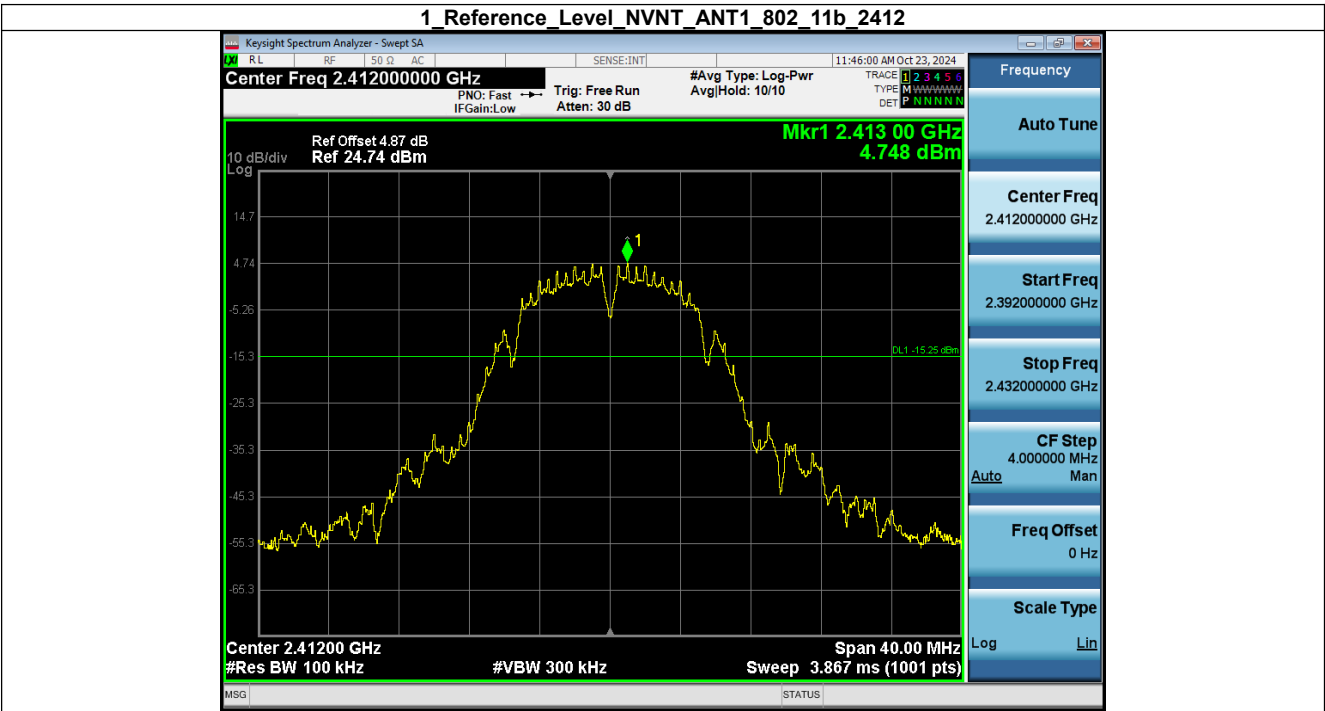


2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452

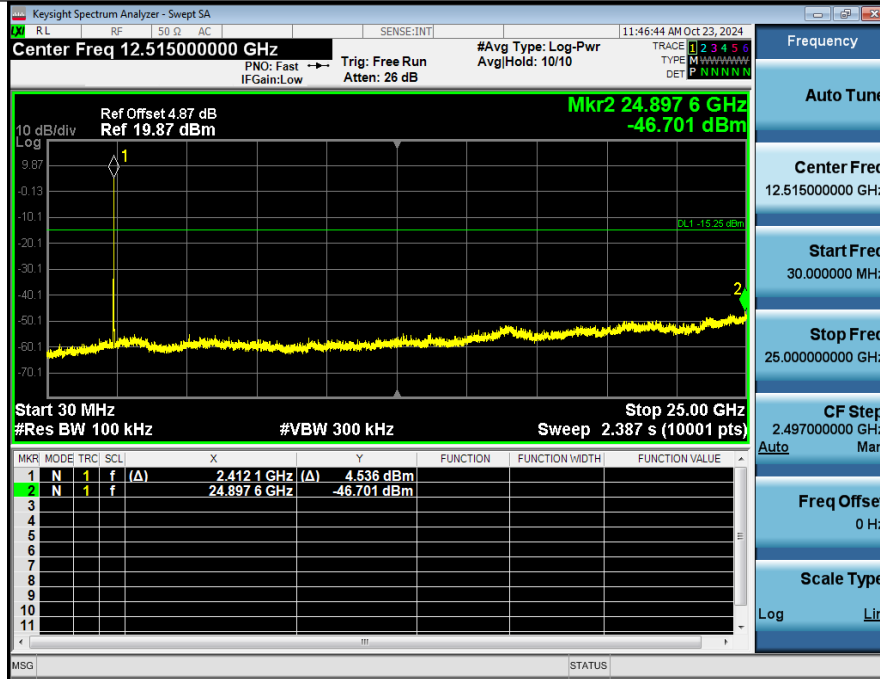


7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24897.623	-46.701	-15.252	Pass
NVNT	ANT1	802.11b	2437.00	24850.180	-46.382	-16.471	Pass
NVNT	ANT1	802.11b	2462.00	829.040	-36.191	-14.795	Pass
NVNT	ANT1	802.11g	2412.00	706.687	-24.575	-21.921	Pass
NVNT	ANT1	802.11g	2437.00	24927.587	-53.676	-22.001	Pass
NVNT	ANT1	802.11g	2462.00	24765.282	-57.378	-21.674	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	911.441	-38.801	-21.825	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24972.533	-53.350	-21.777	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2591.922	-49.594	-20.526	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	731.657	-35.418	-23.965	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	2576.940	-50.225	-24.456	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24965.042	-60.916	-24.623	Pass



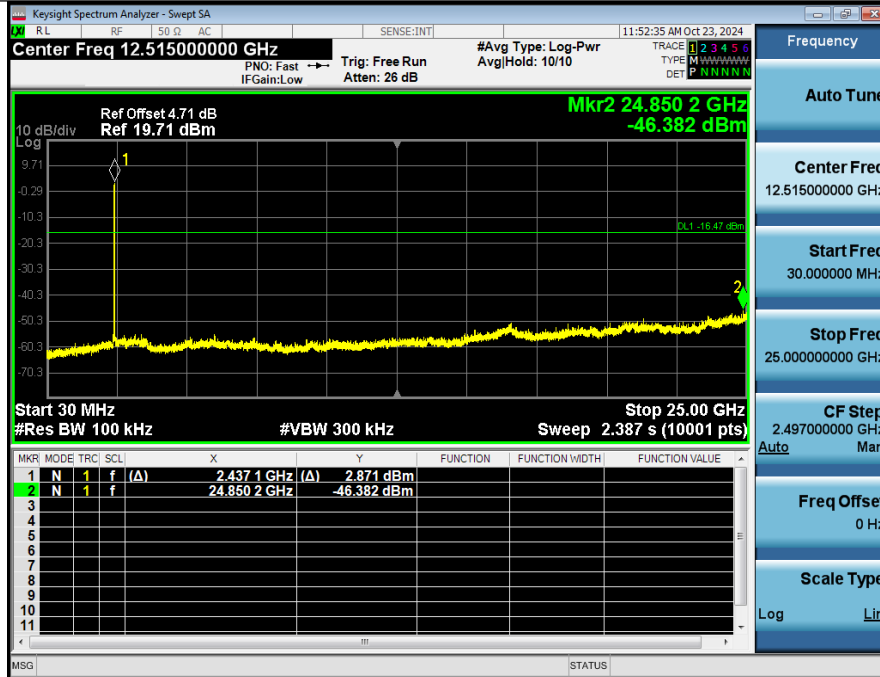
2 Spurious Emission_NVNT_ANT1_802_11b_2412



1 Reference_Level_NVNT_ANT1_802_11b_2437



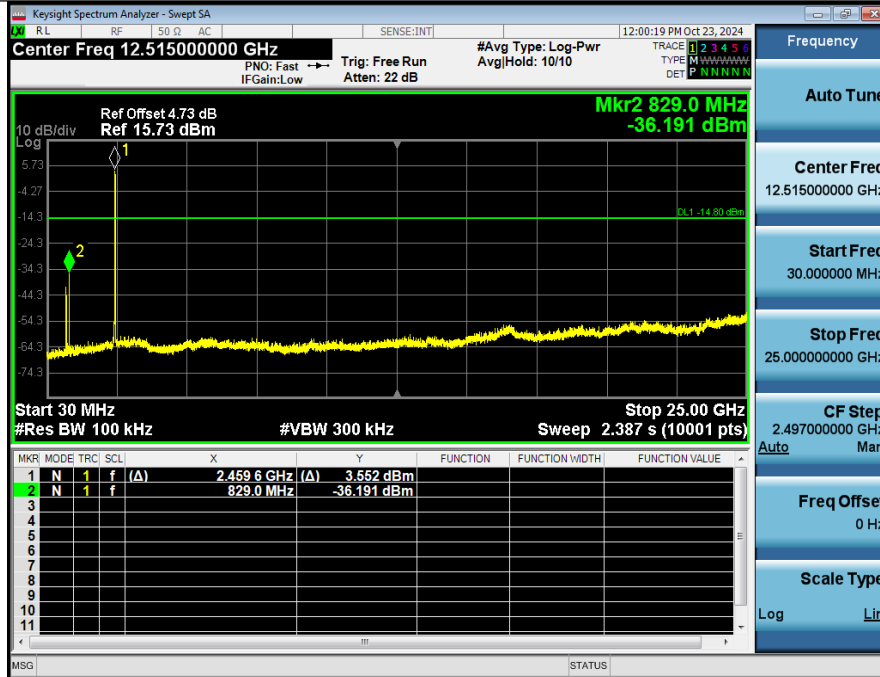
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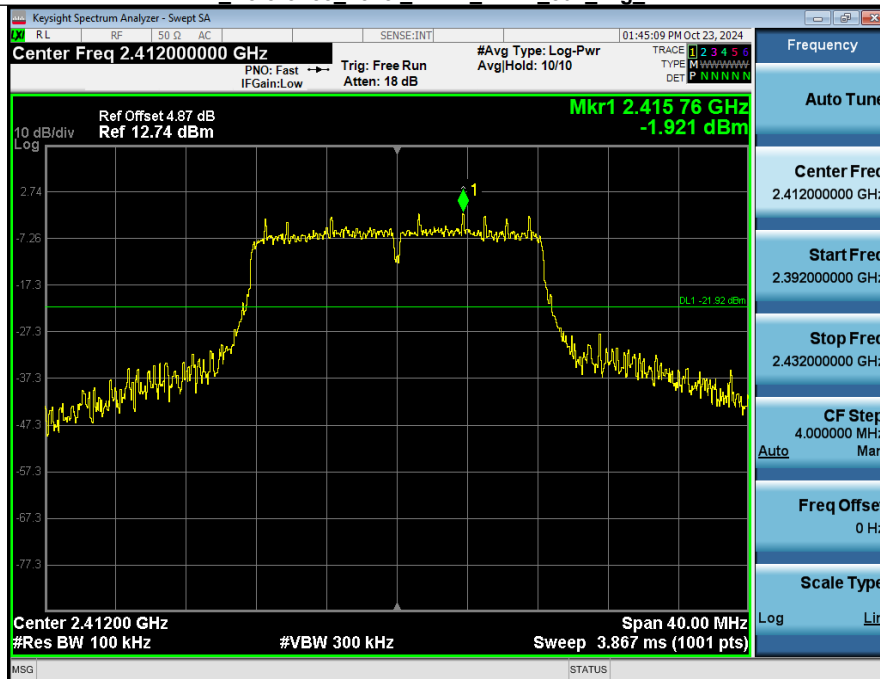
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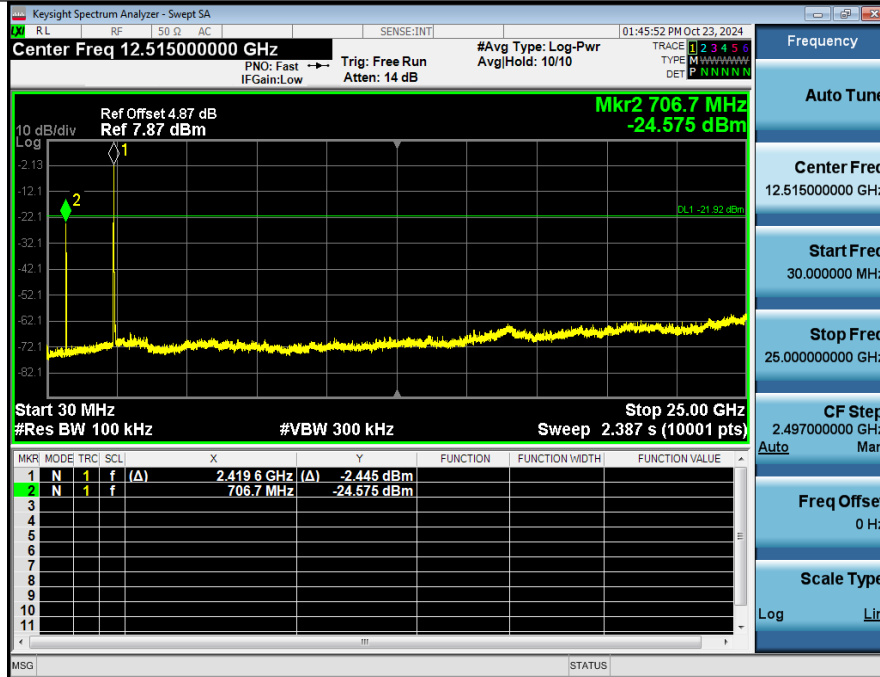
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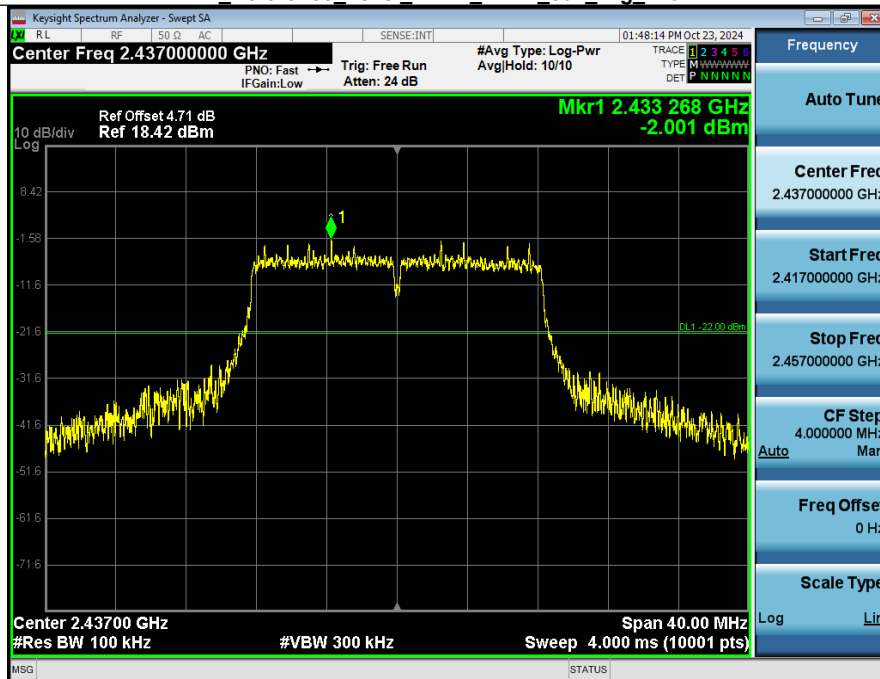
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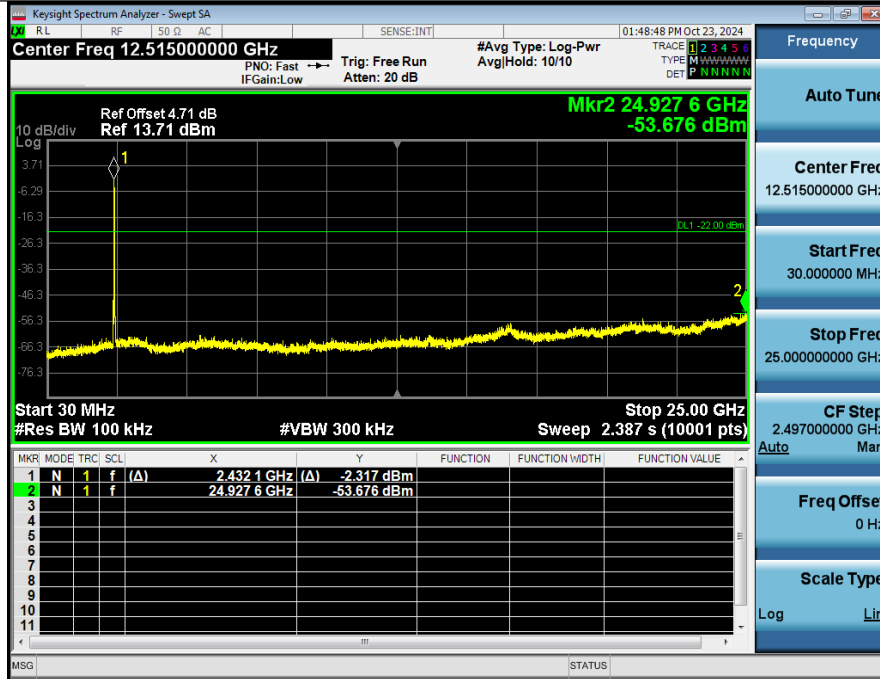
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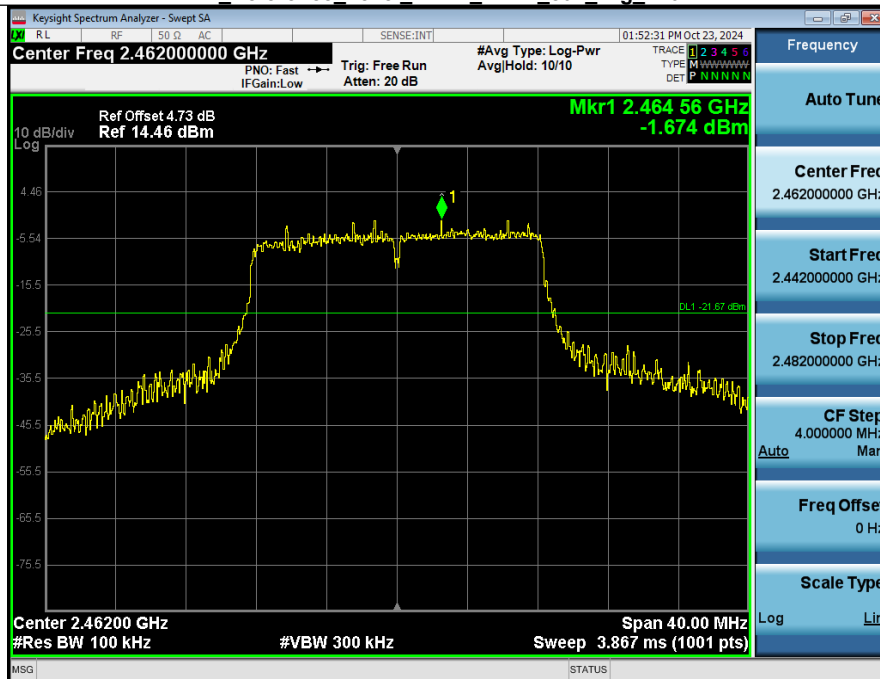
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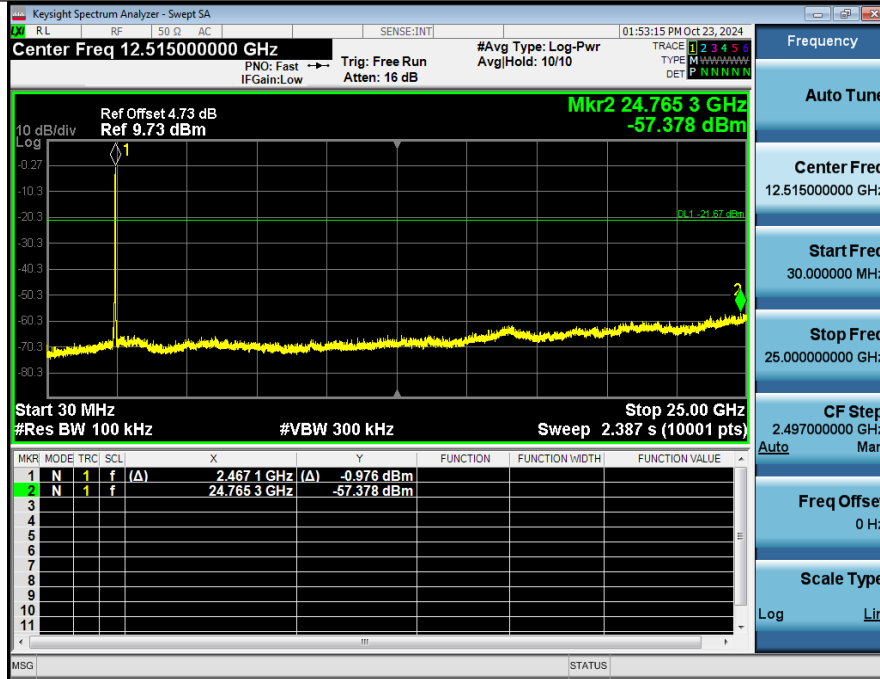
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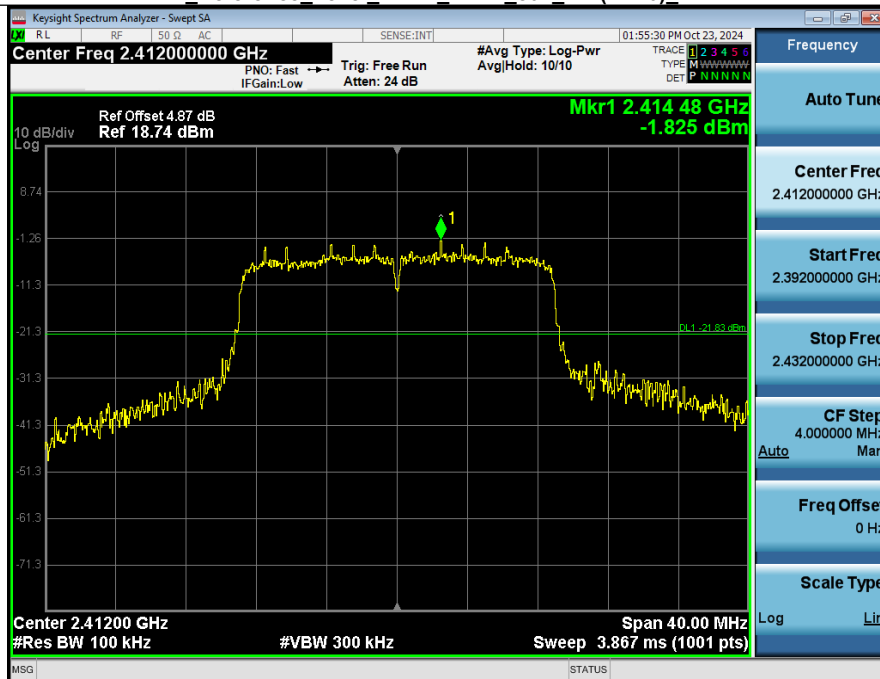
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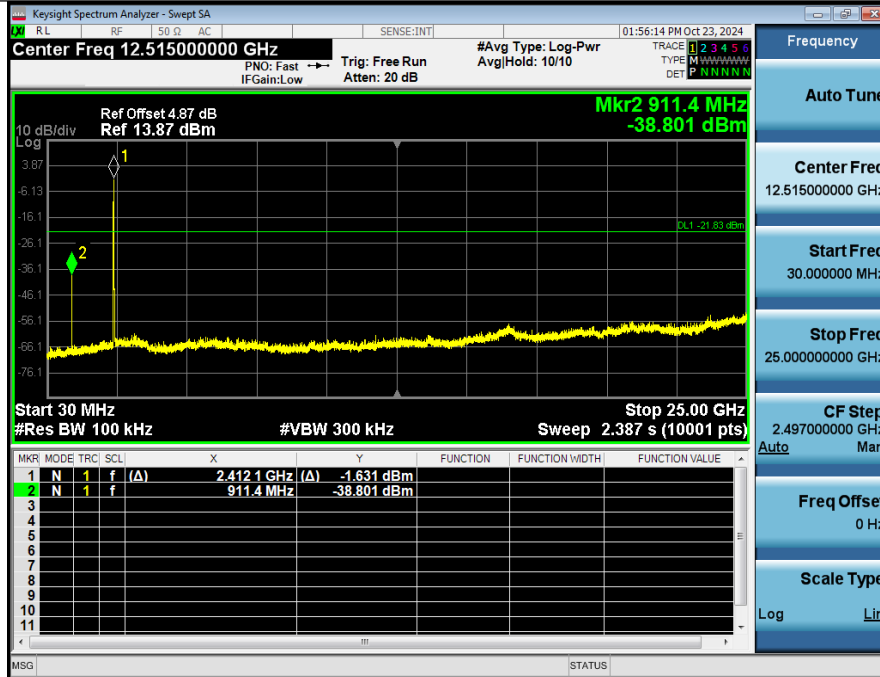
2 Spurious Emission_NVNT_ANT1_802_11g_2462



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



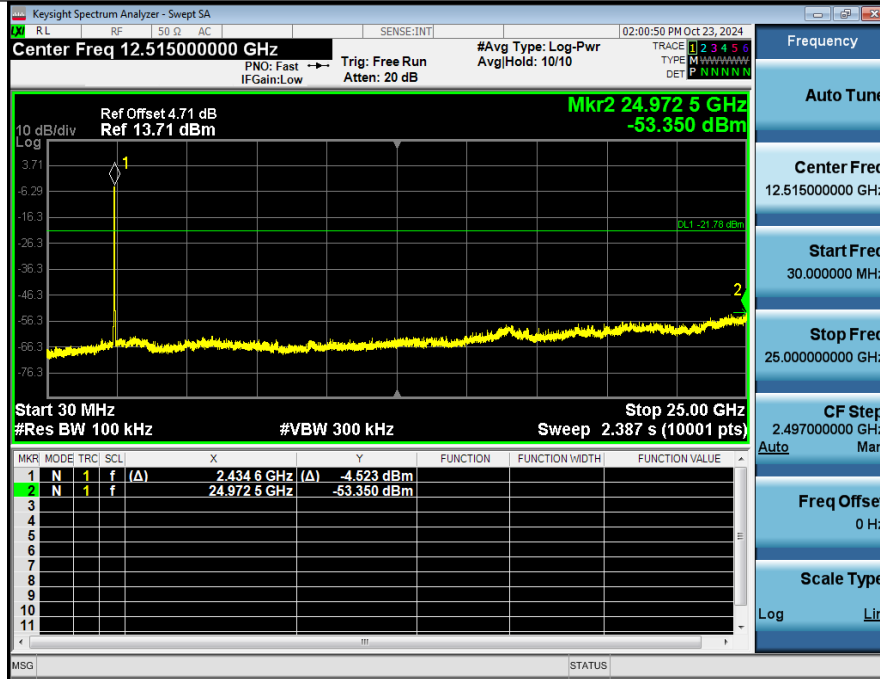
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412



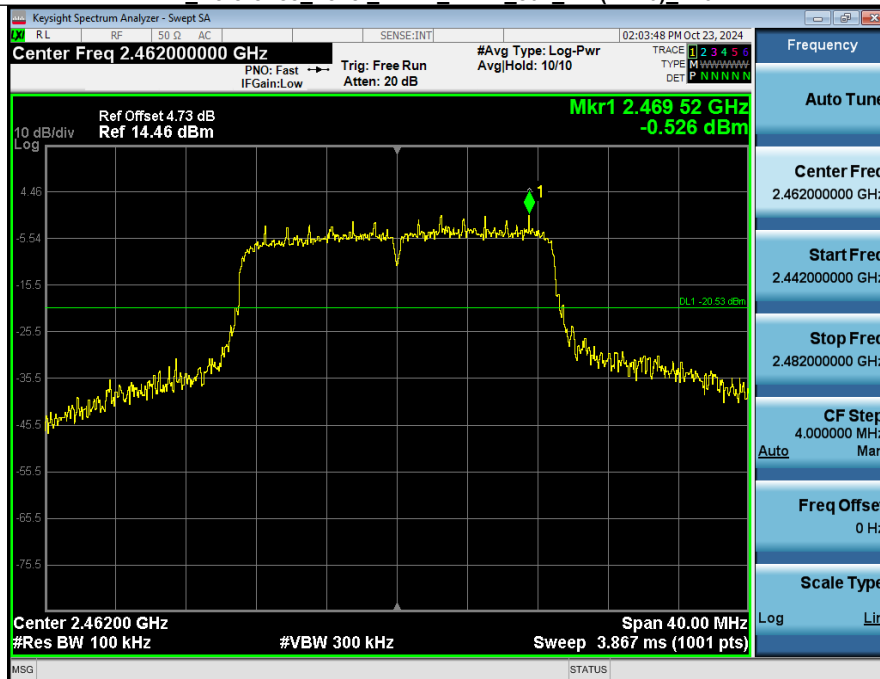
1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



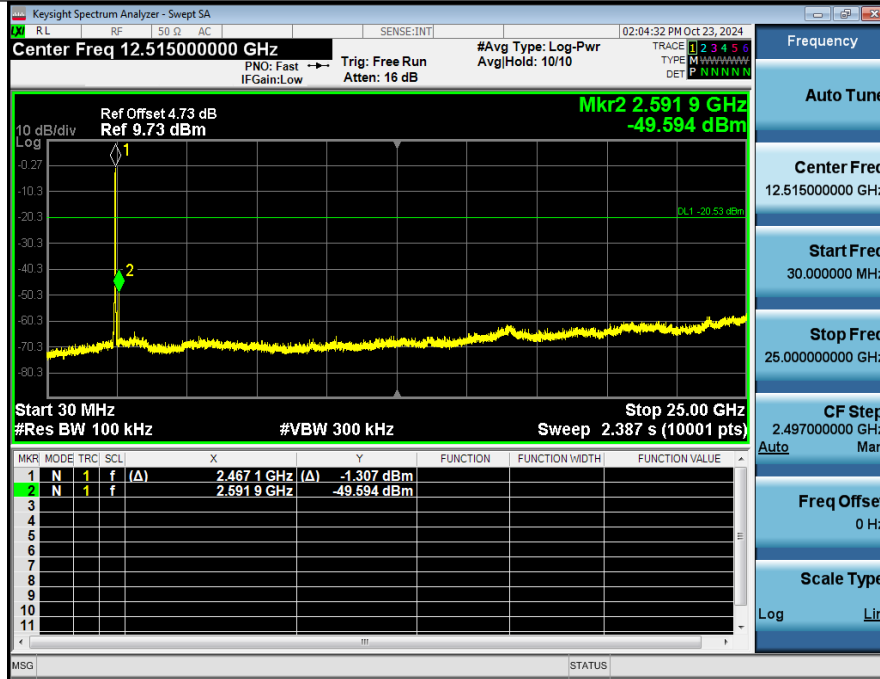
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



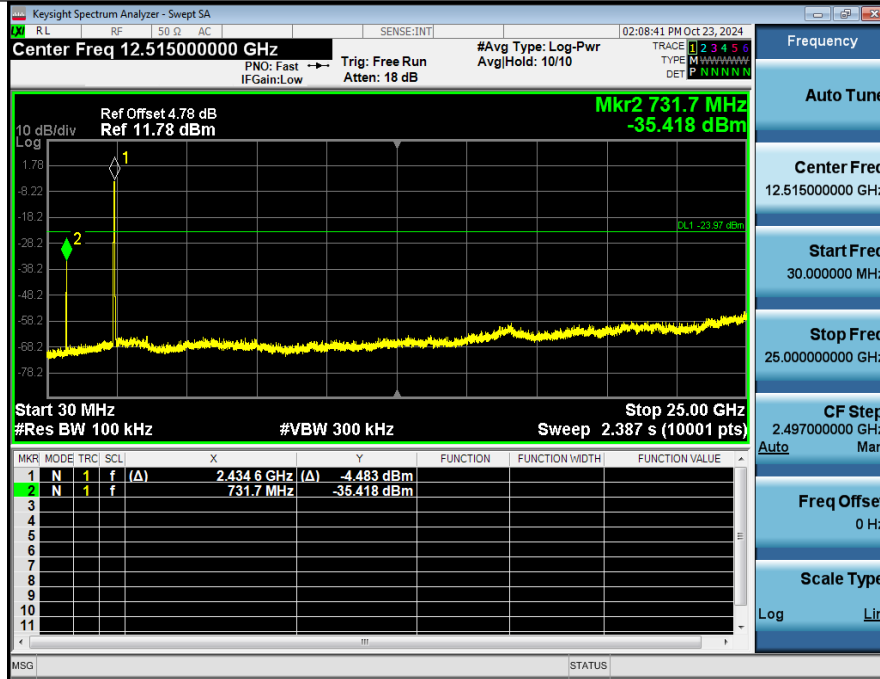
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



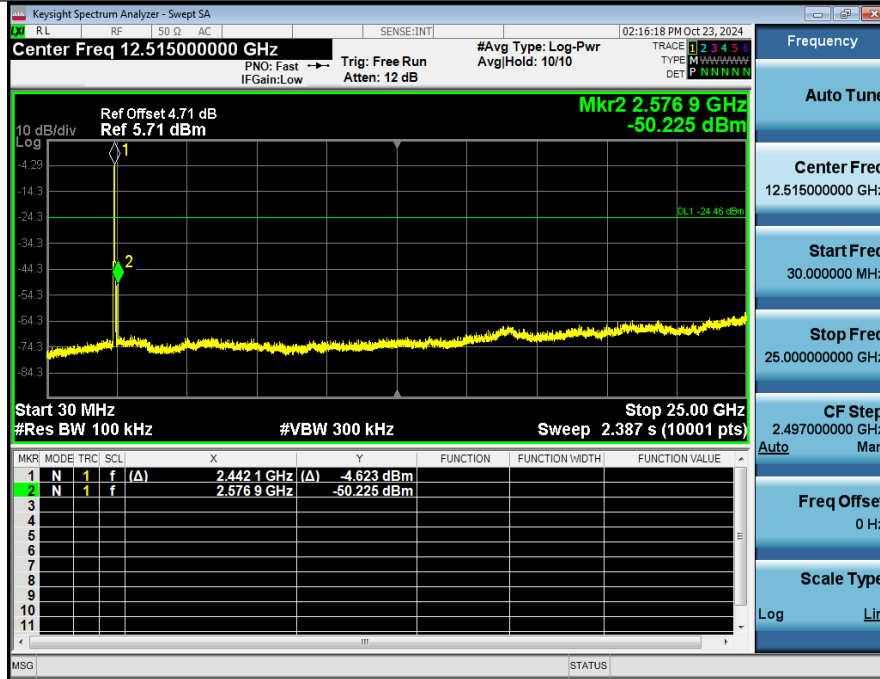
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



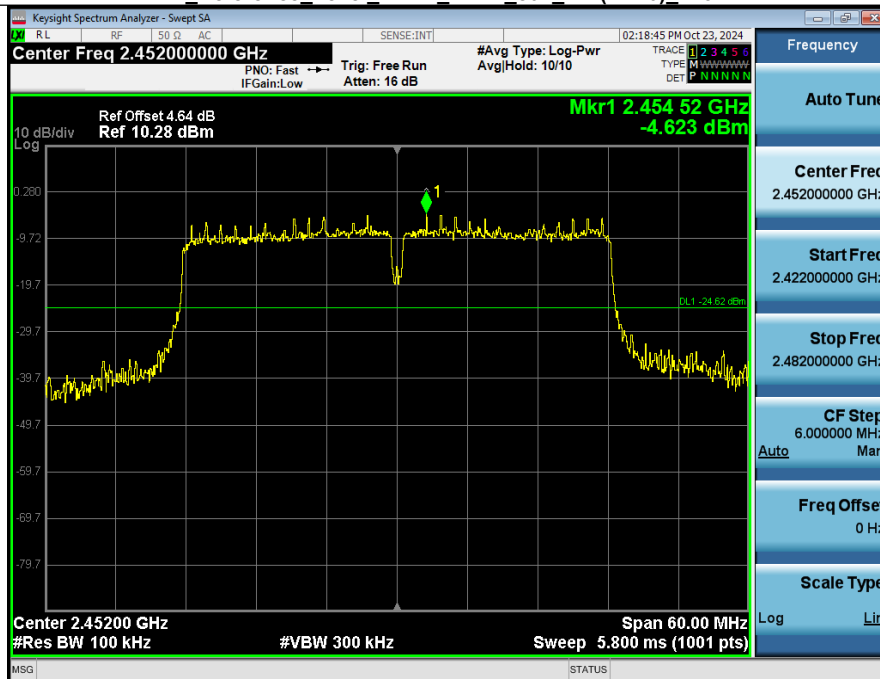
1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



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

