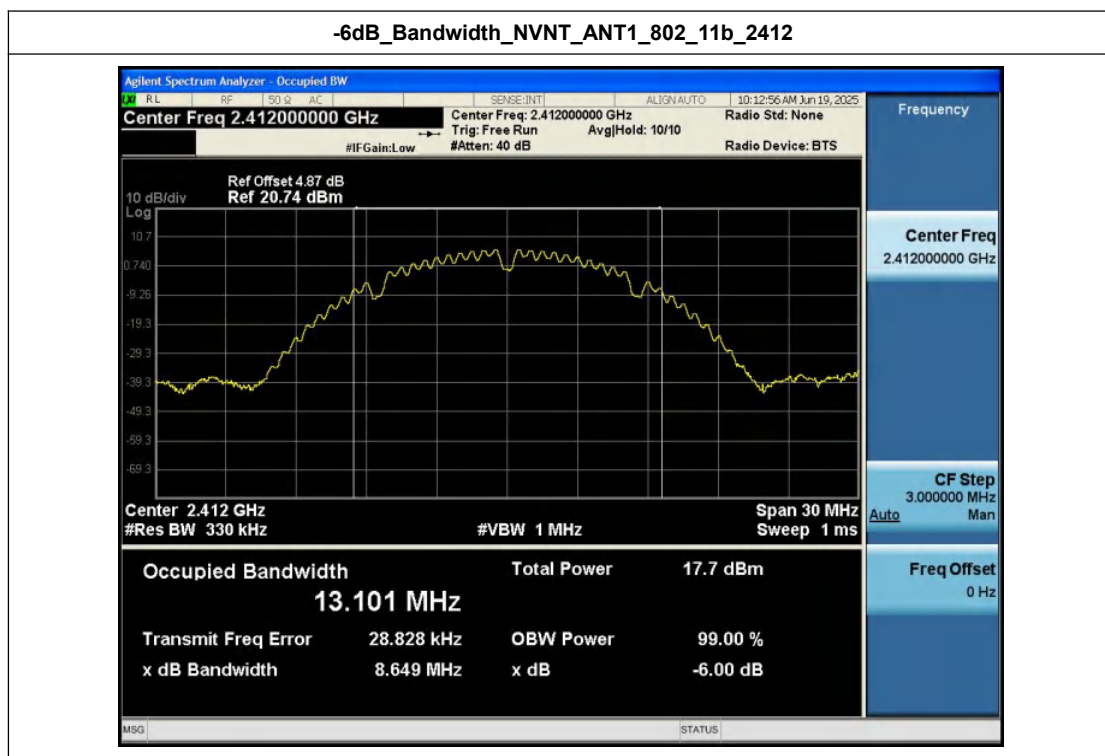


Appendix Test Data

Report No.:	1812C50273812501	Test Sample No.:	1-2-2
Start Test Date:	2025-06-17	Finish Test Date:	2025-09-12
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.1°C	Relative Humidity:	62%
Pressure:	101kPa		

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.65	500	Pass
NVNT	ANT1	802.11b	2437.00	8.62	500	Pass
NVNT	ANT1	802.11b	2462.00	8.18	500	Pass
NVNT	ANT1	802.11g	2412.00	16.27	500	Pass
NVNT	ANT1	802.11g	2437.00	16.18	500	Pass
NVNT	ANT1	802.11g	2462.00	16.06	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.51	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.48	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.32	500	Pass

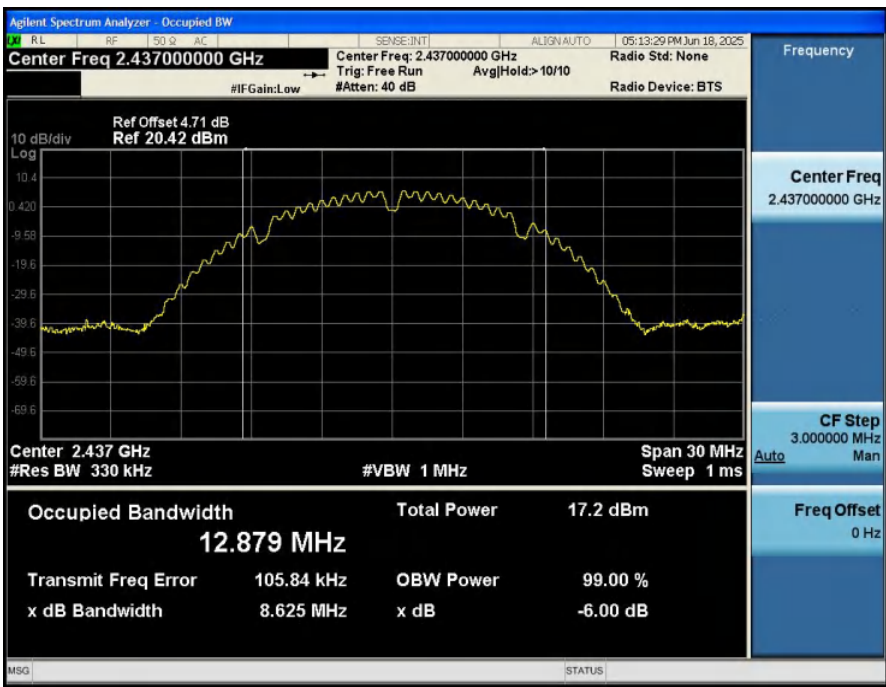


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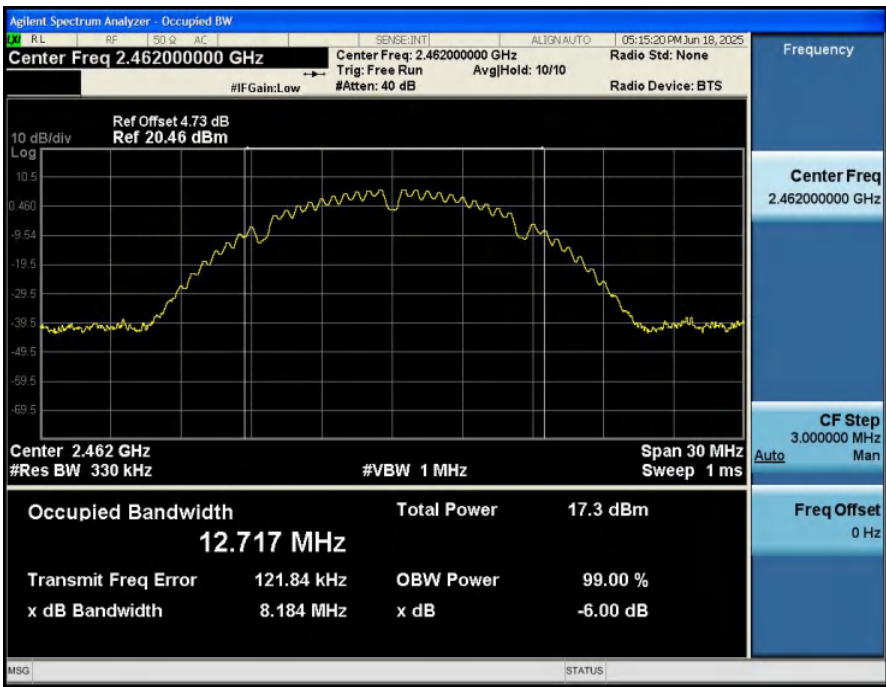
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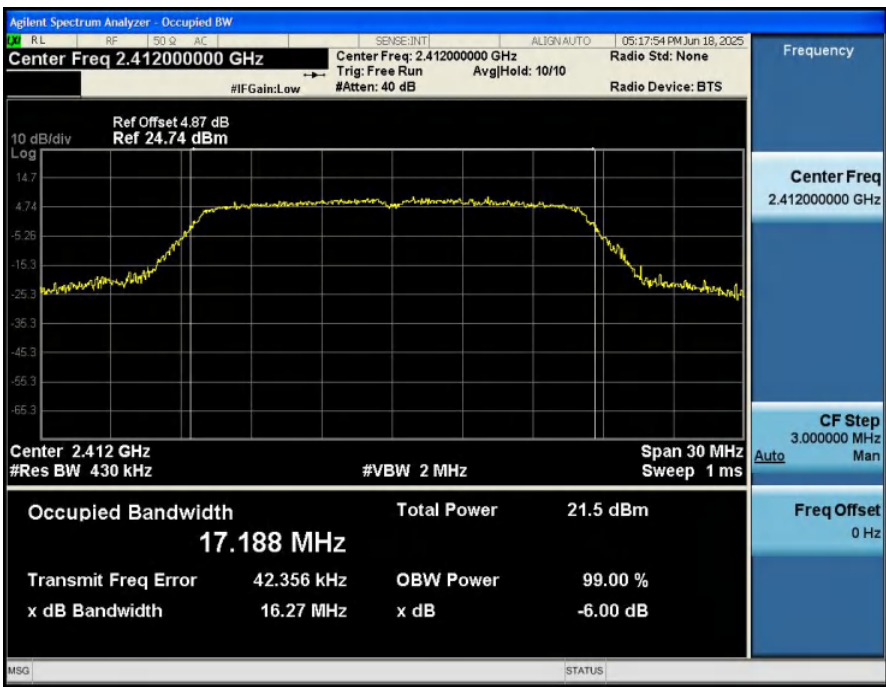
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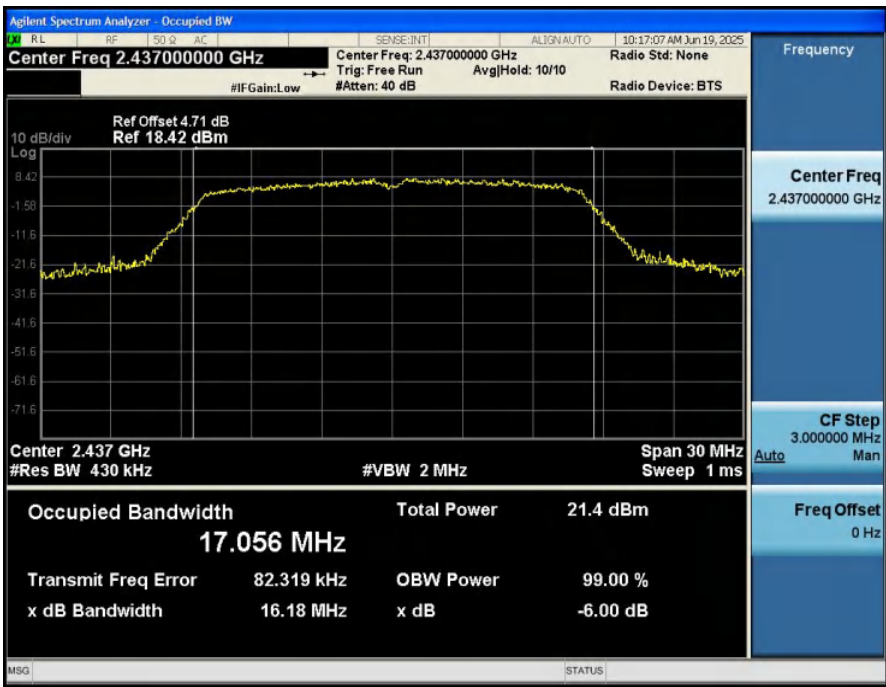
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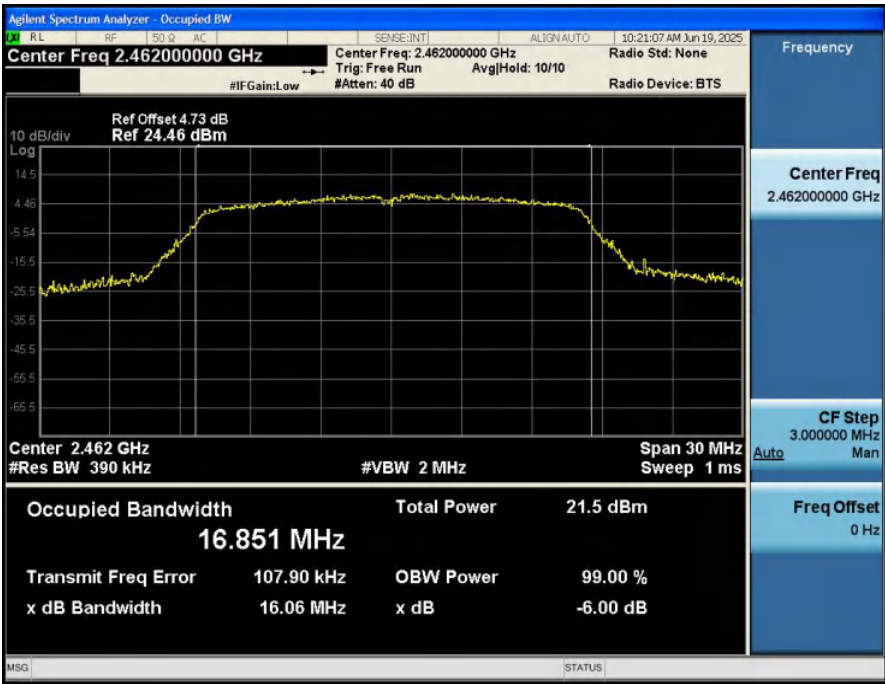
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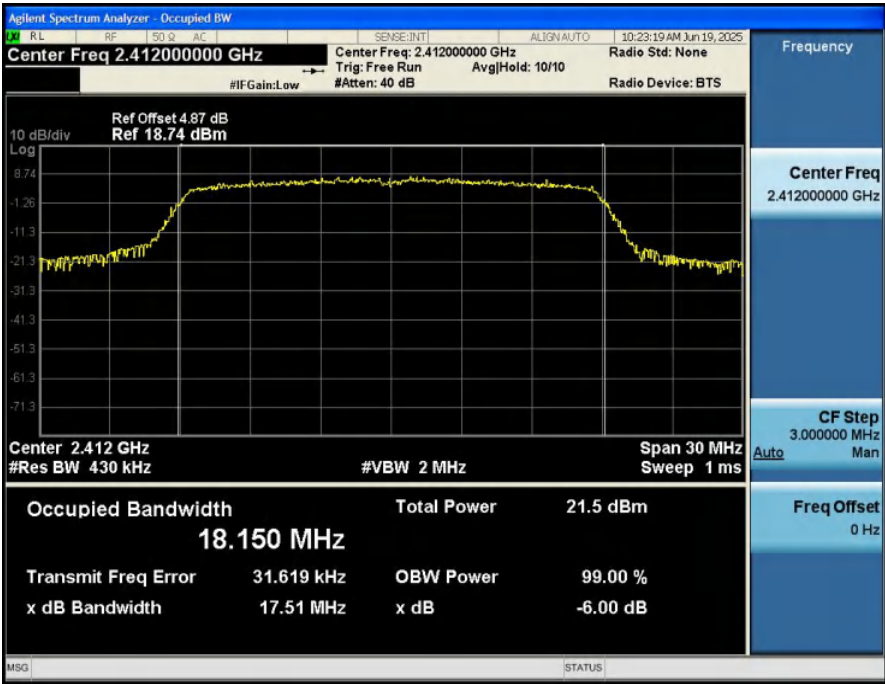
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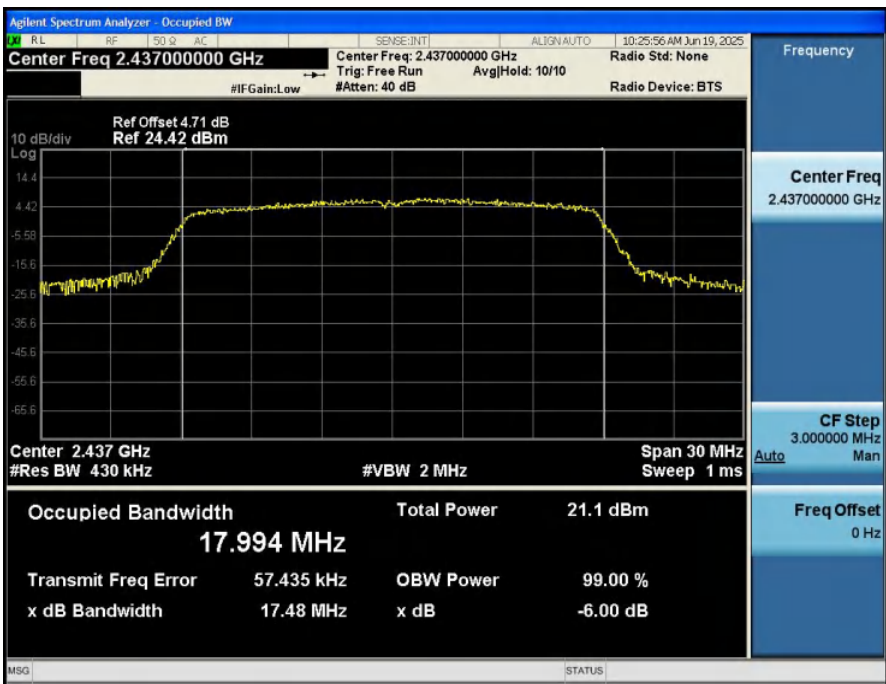
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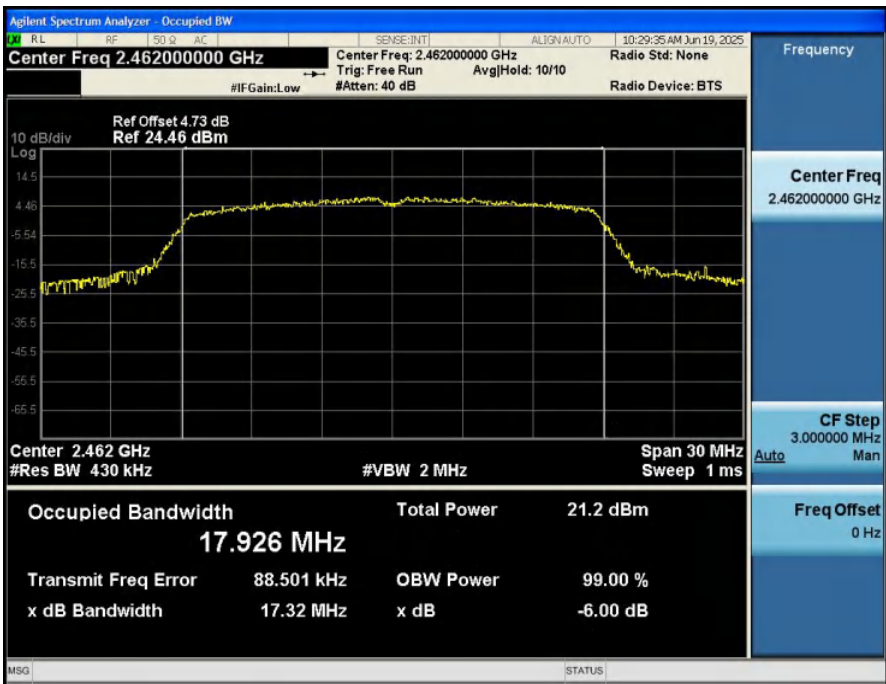
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



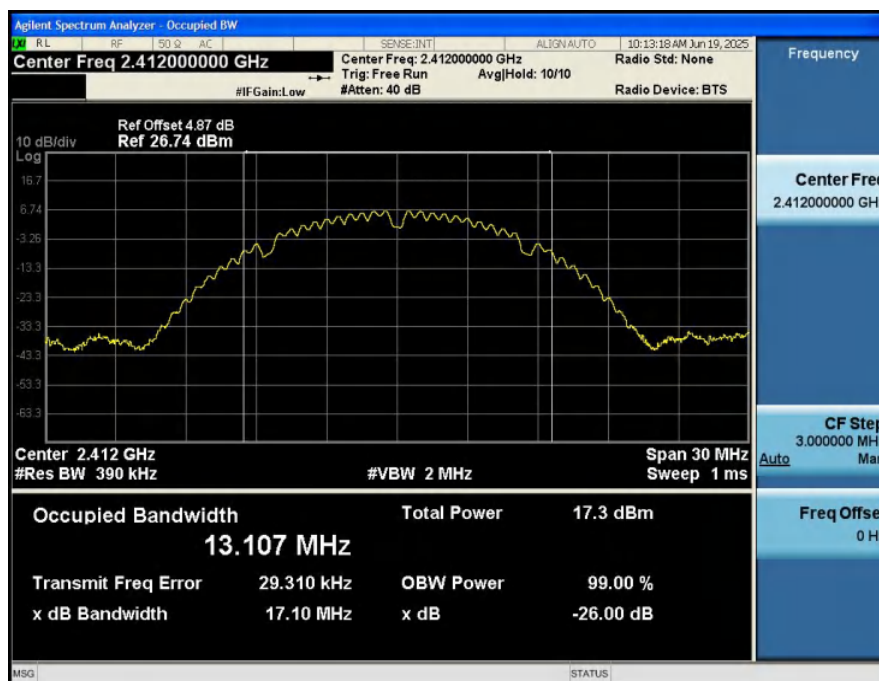
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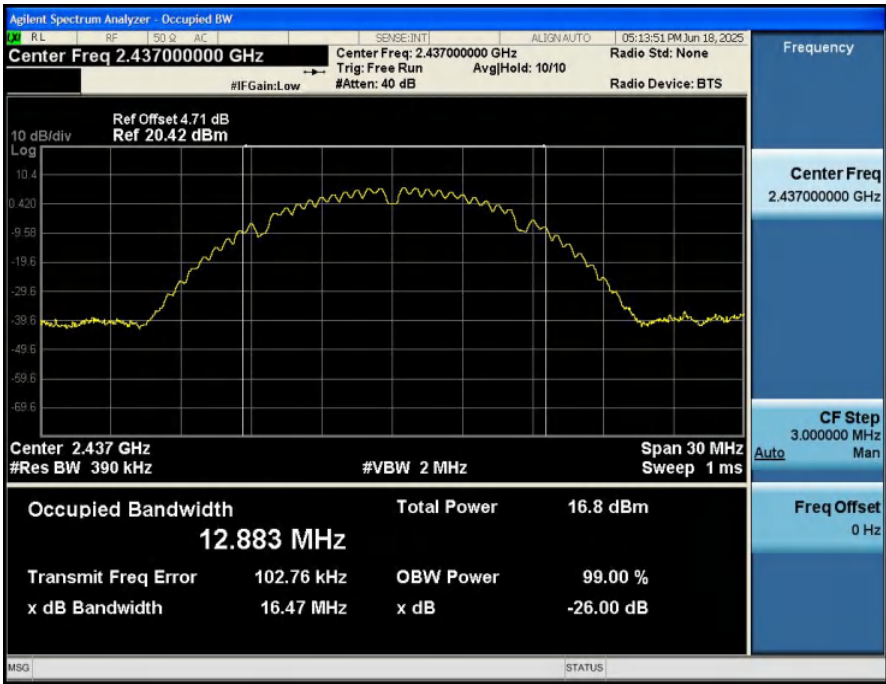
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	13.107
NVNT	ANT1	802.11b	2437.00	12.883
NVNT	ANT1	802.11b	2462.00	12.717
NVNT	ANT1	802.11g	2412.00	17.231
NVNT	ANT1	802.11g	2437.00	17.139
NVNT	ANT1	802.11g	2462.00	17.083
NVNT	ANT1	802.11n(HT20)	2412.00	18.275
NVNT	ANT1	802.11n(HT20)	2437.00	18.106
NVNT	ANT1	802.11n(HT20)	2462.00	18.110

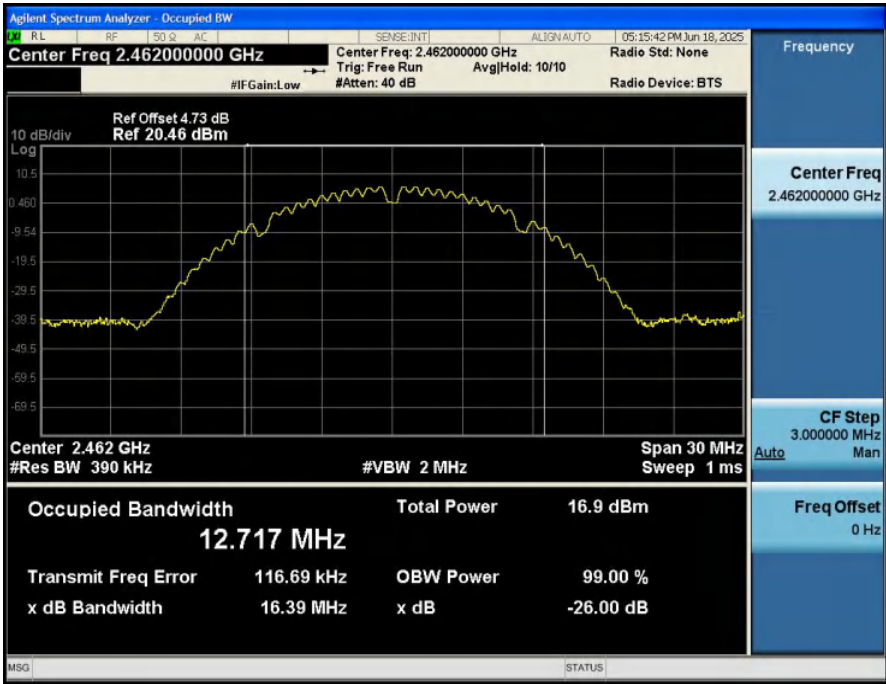
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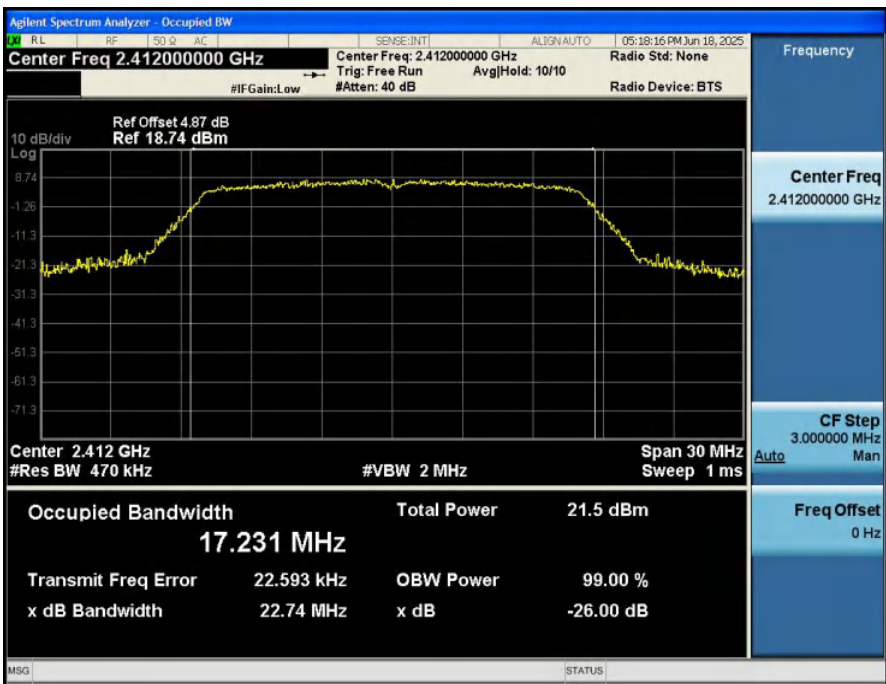
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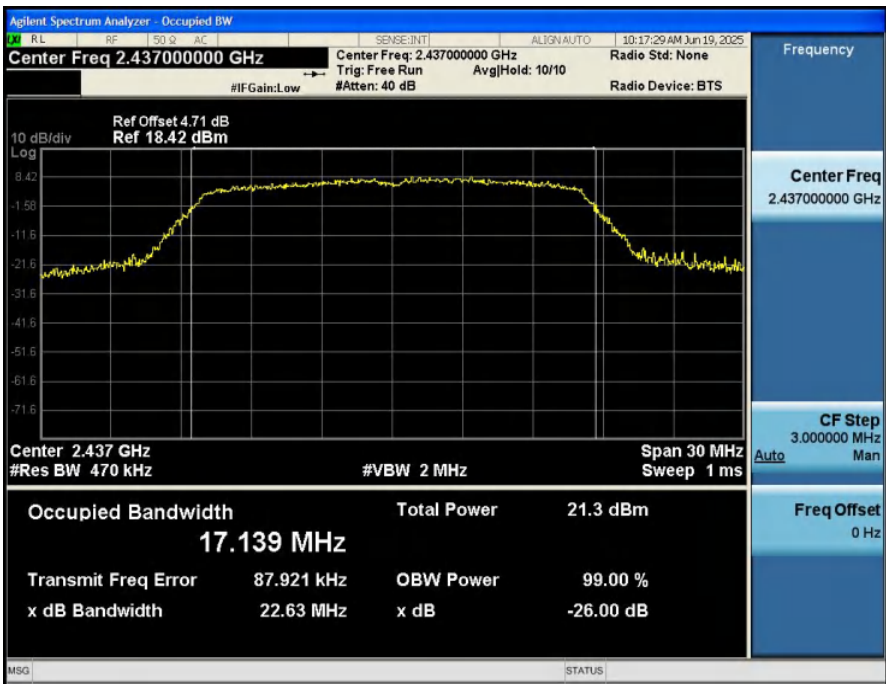
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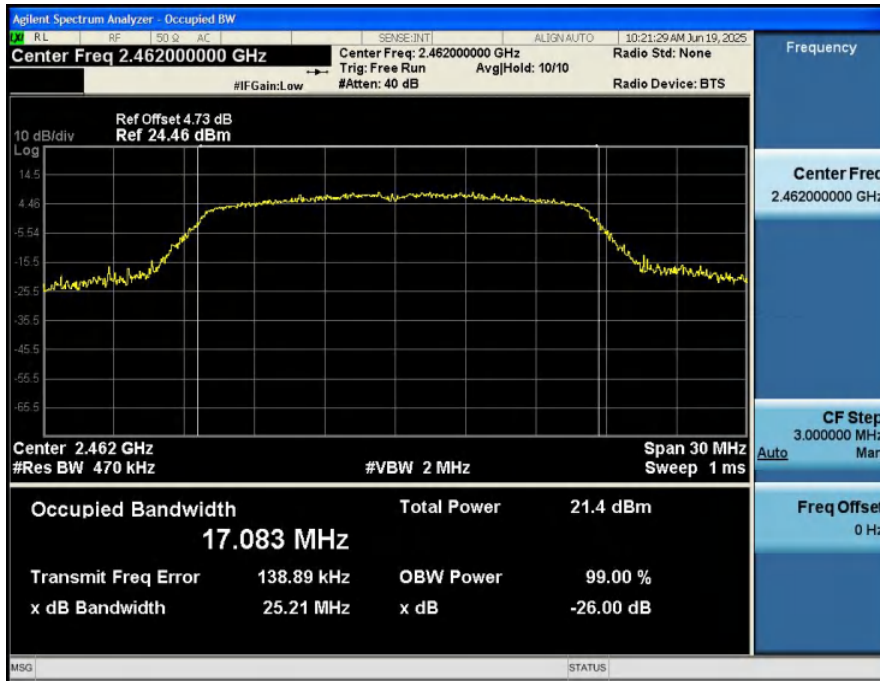
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



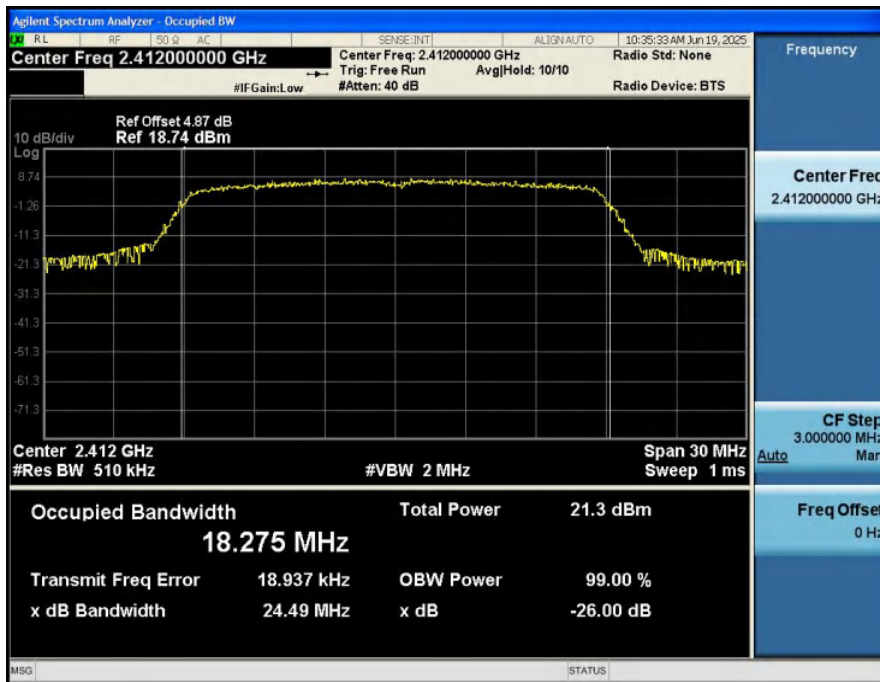
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412

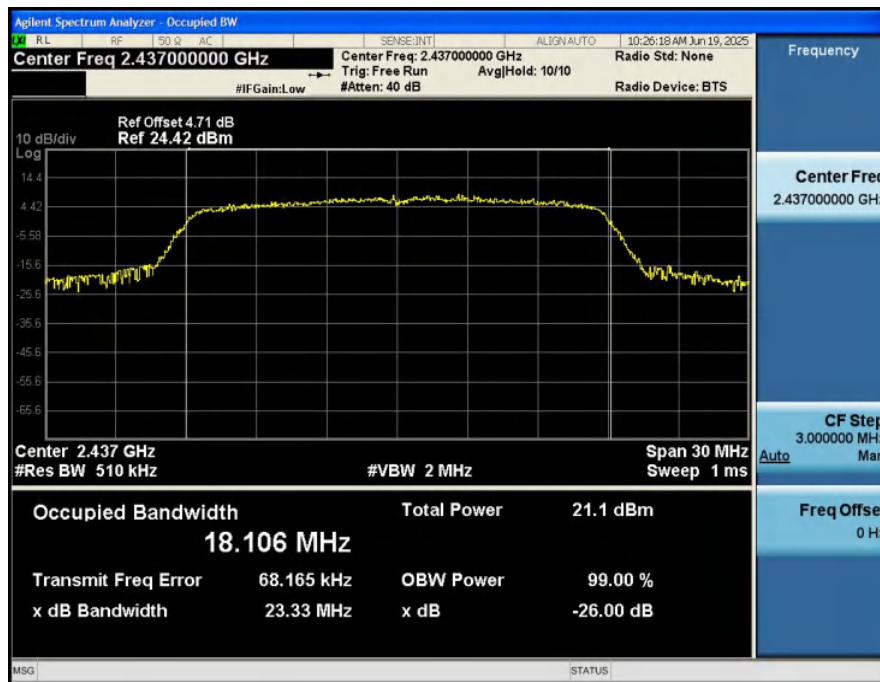


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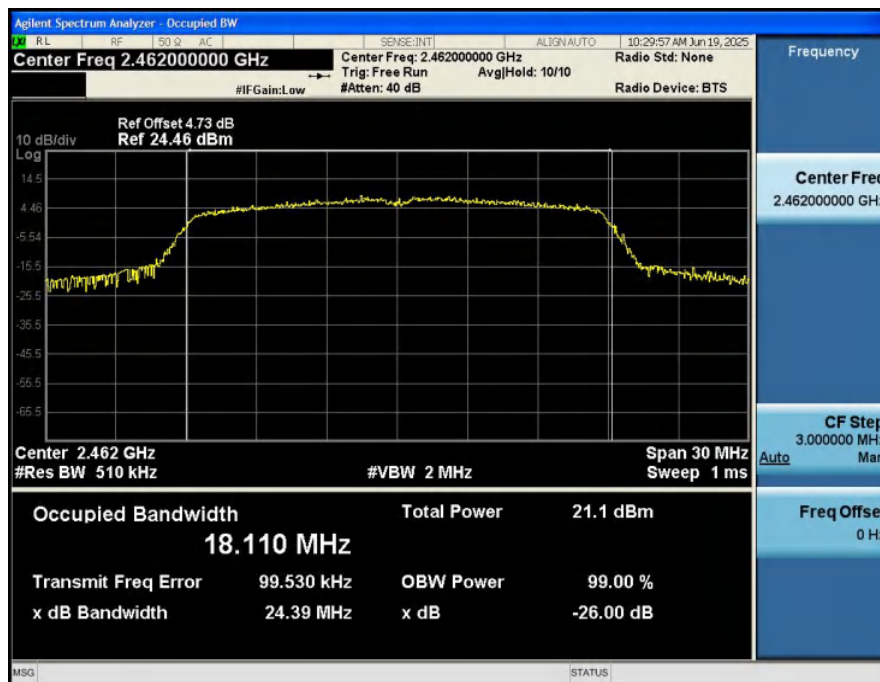
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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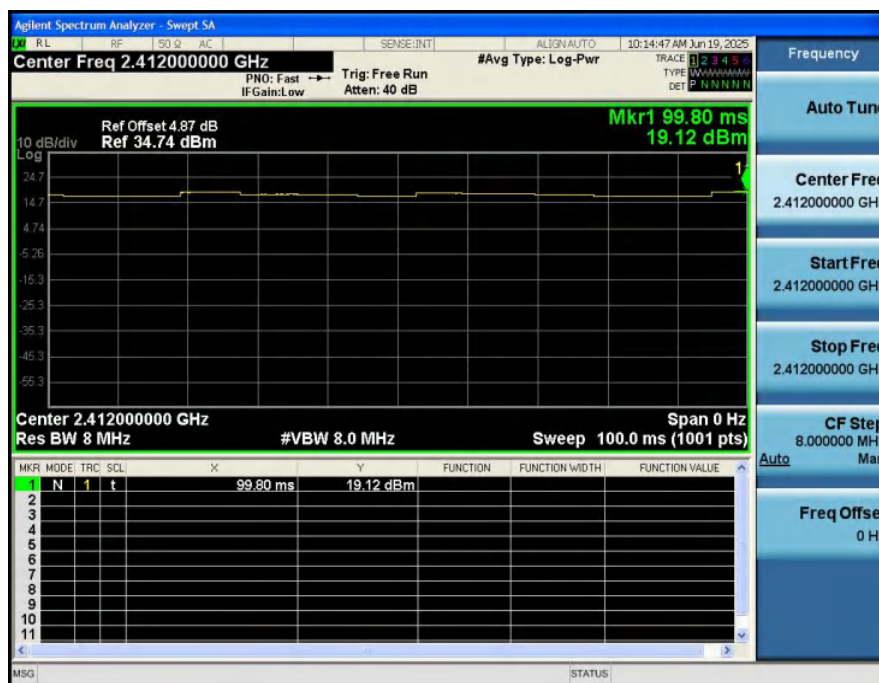
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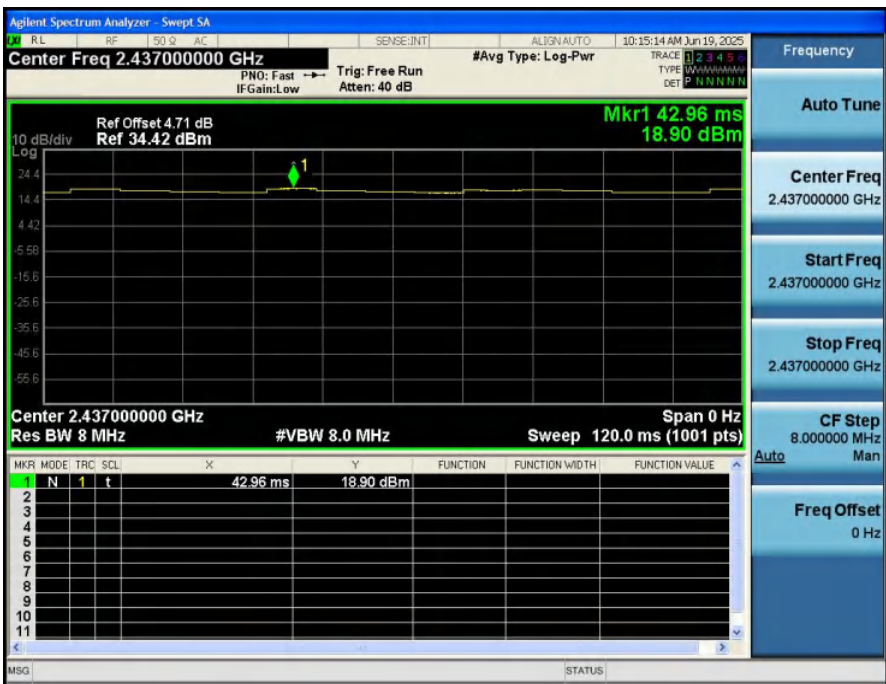
Appendix C: Duty Cycle

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

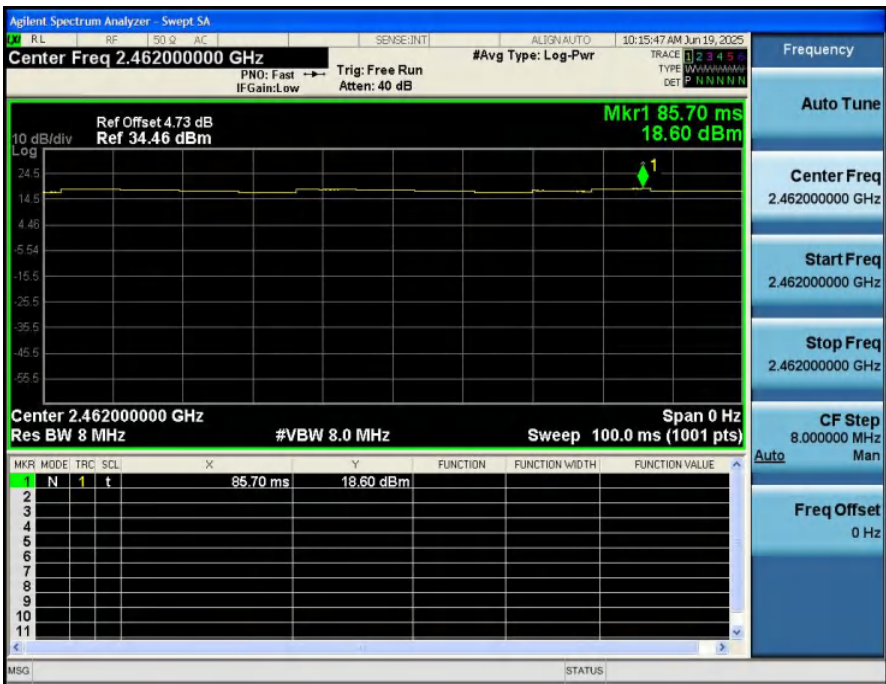
Duty_Cycle_NVNT_ANT1_802_11b_2412



Duty_Cycle_NVNT_ANT1_802_11b_2437



Duty_Cycle_NVNT_ANT1_802_11b_2462



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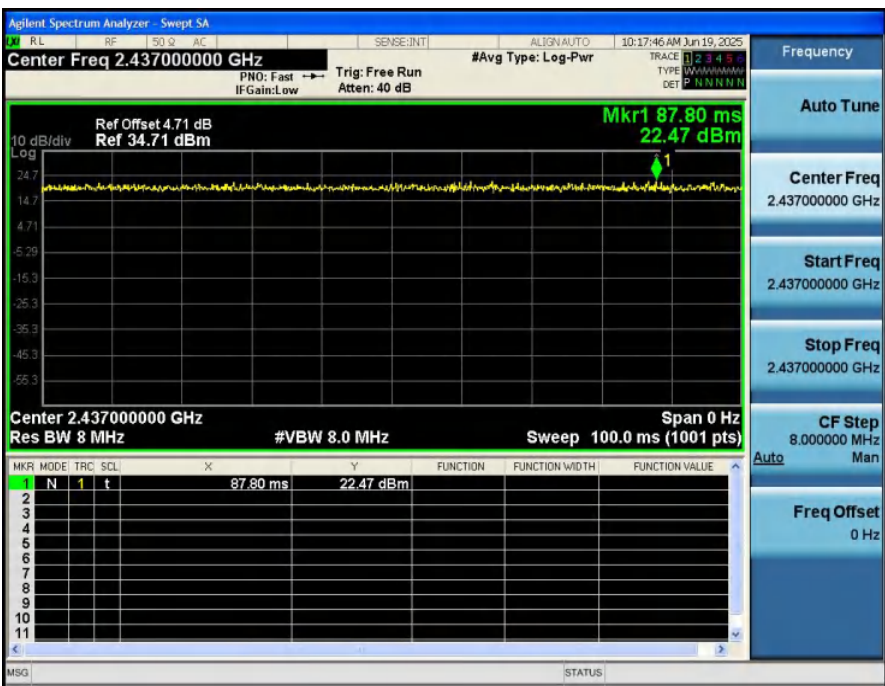
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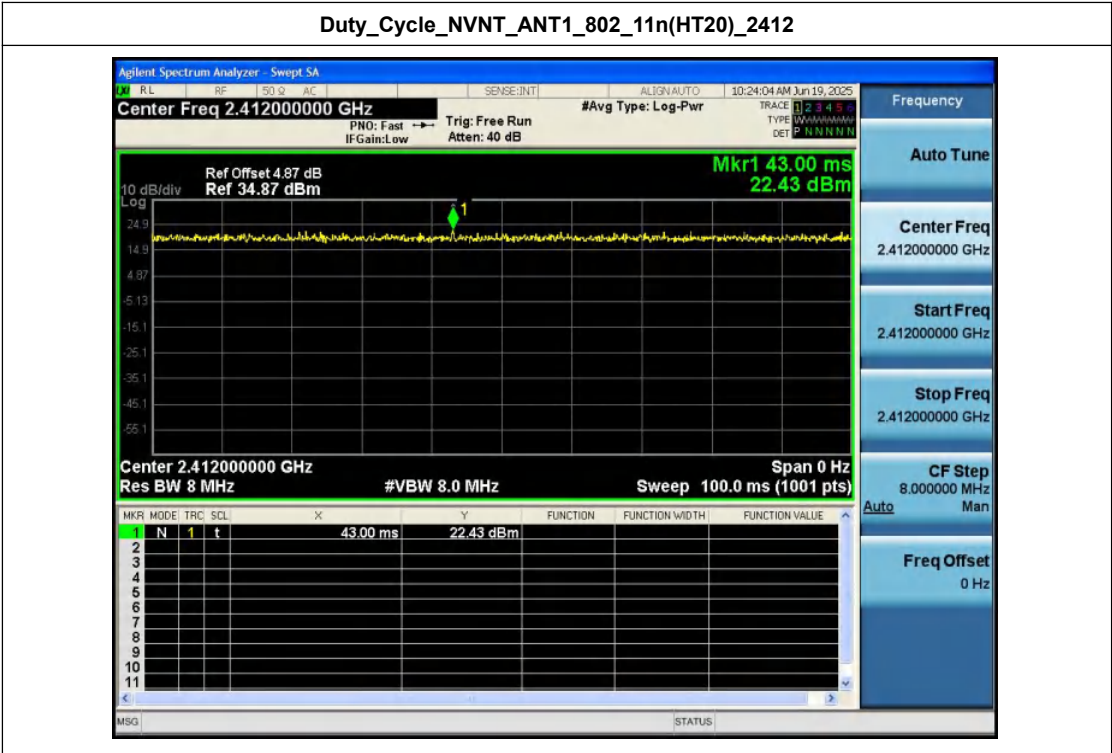
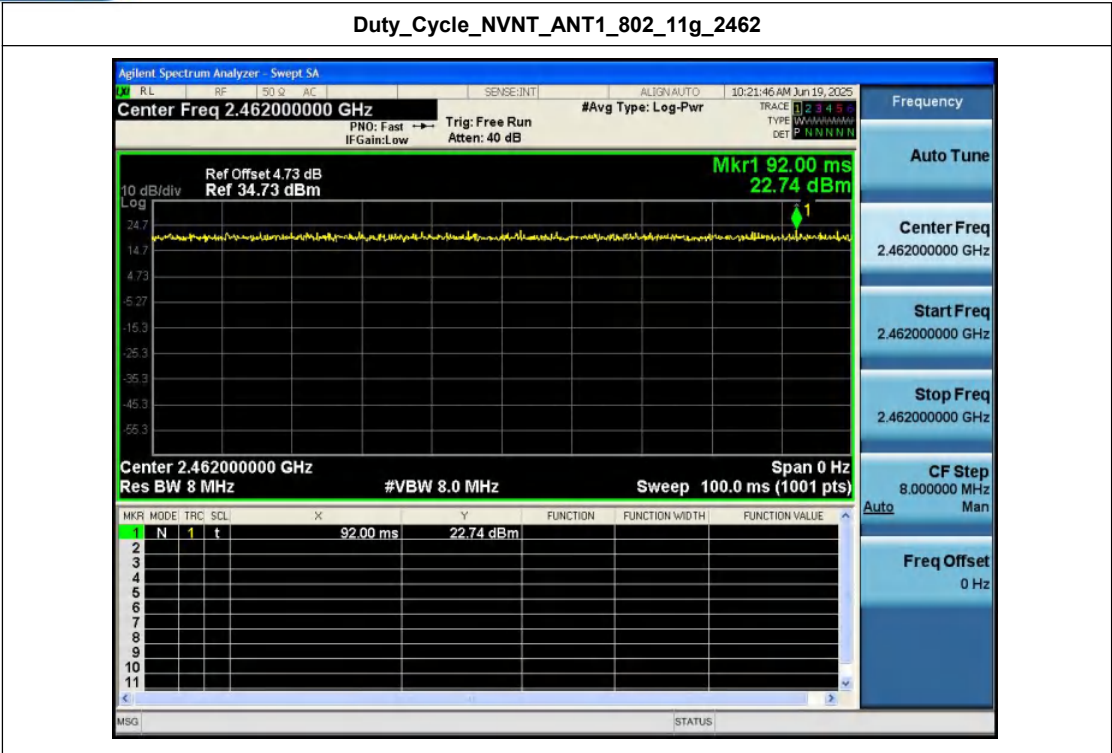
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Duty_Cycle_NVNT_ANT1_802_11g_2412



Duty_Cycle_NVNT_ANT1_802_11g_2437

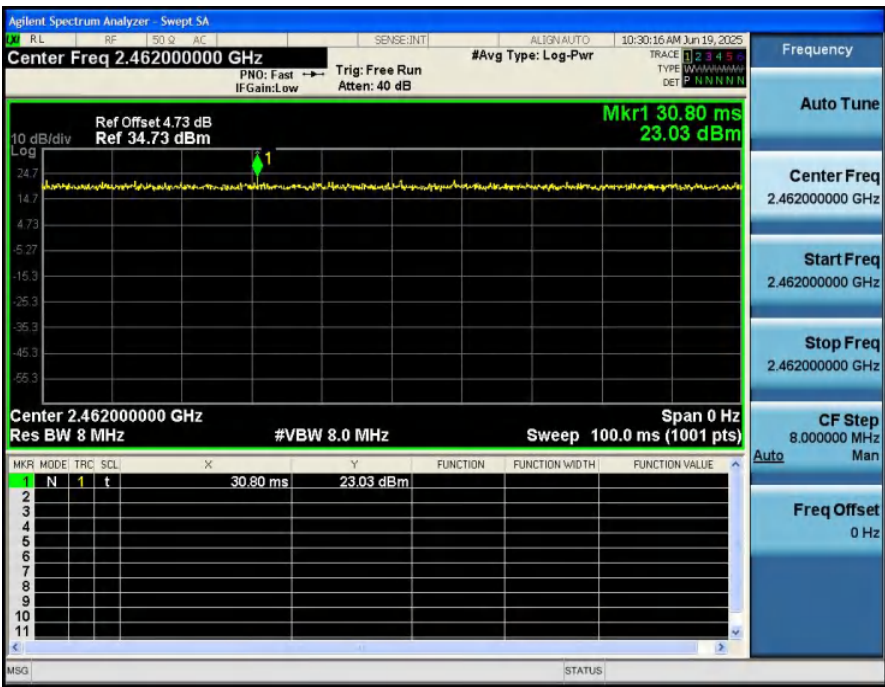




Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



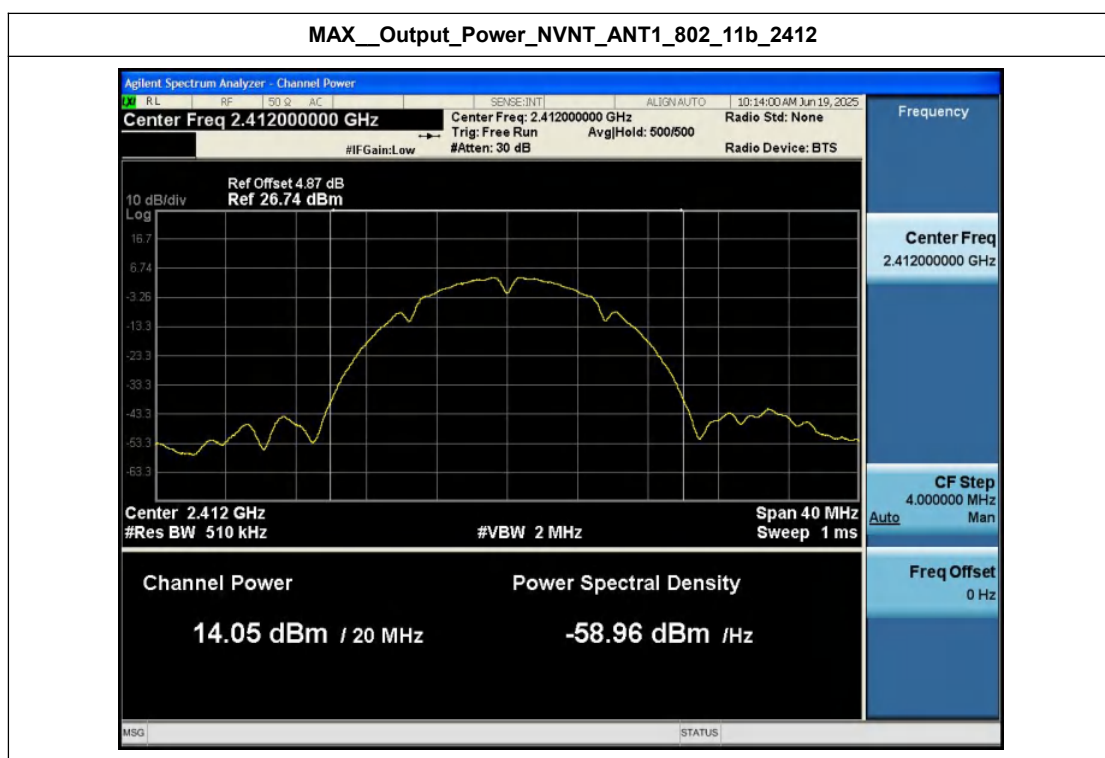
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



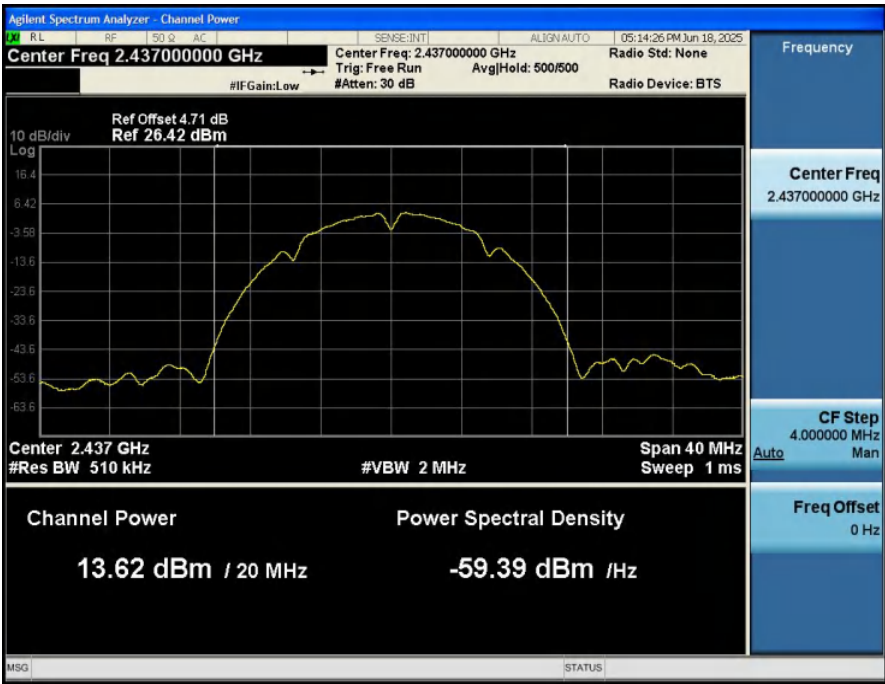
Appendix D: MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	14.05	0.00	14.05	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.62	0.00	13.62	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	13.82	0.00	13.82	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	14.31	0.00	14.31	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.11	0.00	14.11	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	14.19	0.00	14.19	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	14.14	0.00	14.14	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.89	0.00	13.89	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	13.96	0.00	13.96	30	Pass

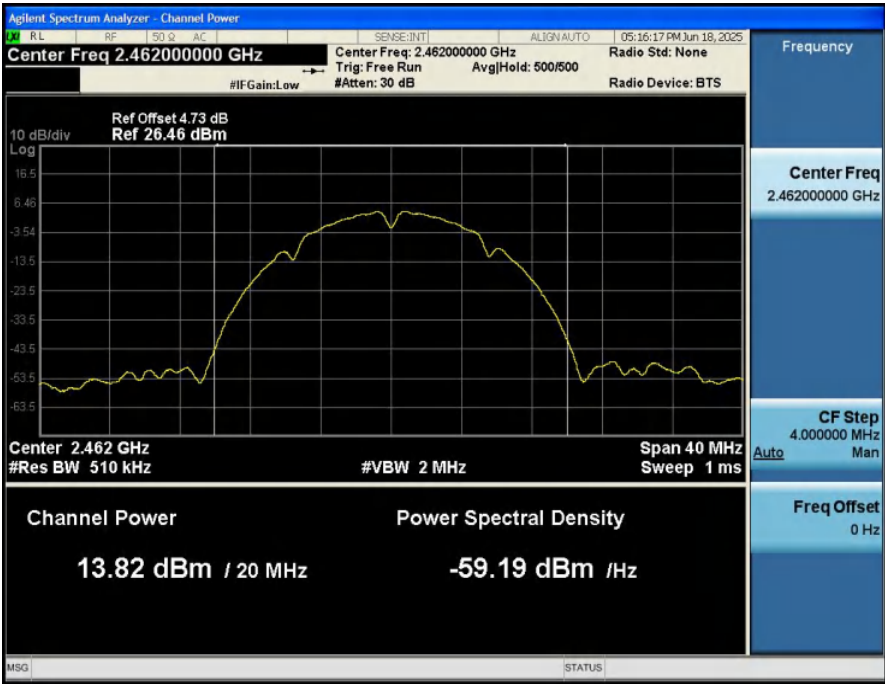
Note: 1.The cable loss are compensated in the graph.



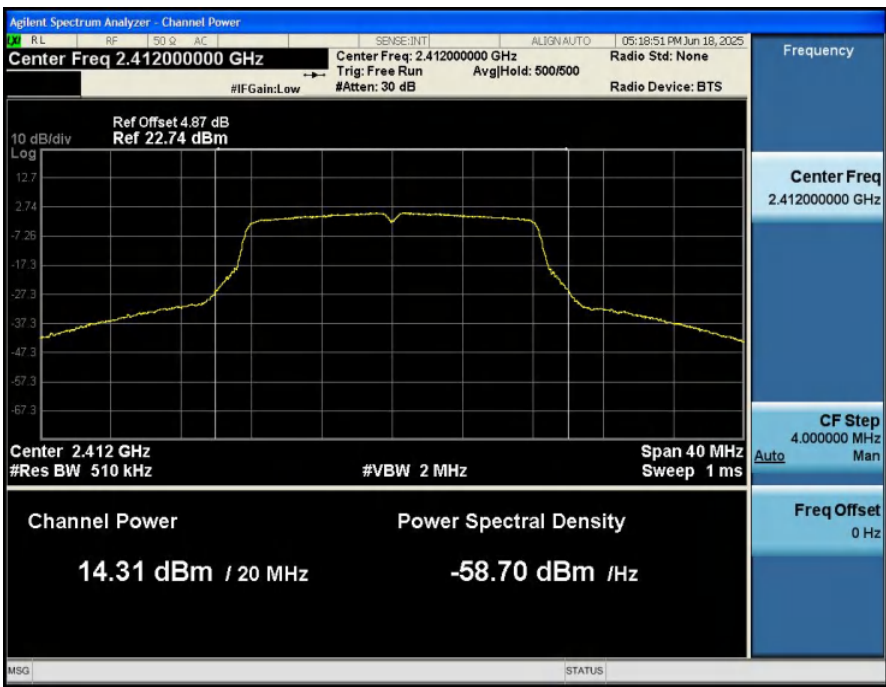
MAX__Output_Power_NVNT_ANT1_802_11b_2437



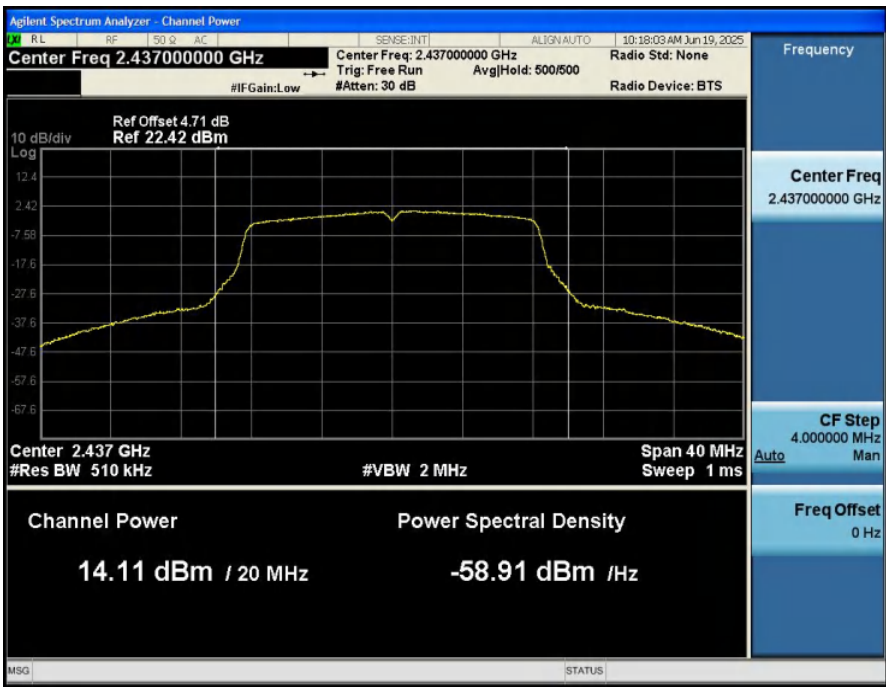
MAX__Output_Power_NVNT_ANT1_802_11b_2462



MAX__Output_Power_NVNT_ANT1_802_11g_2412



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

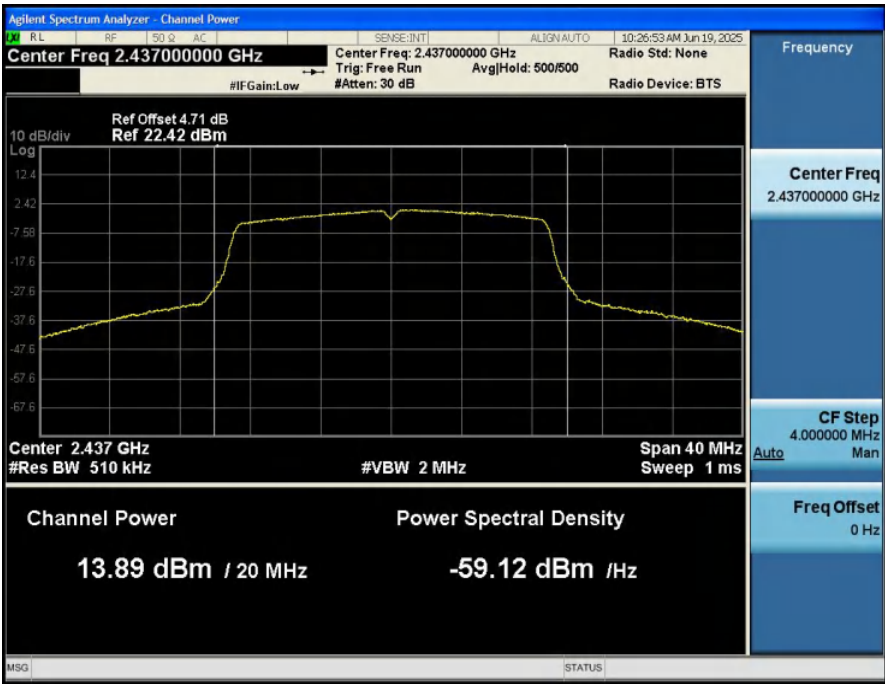


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MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



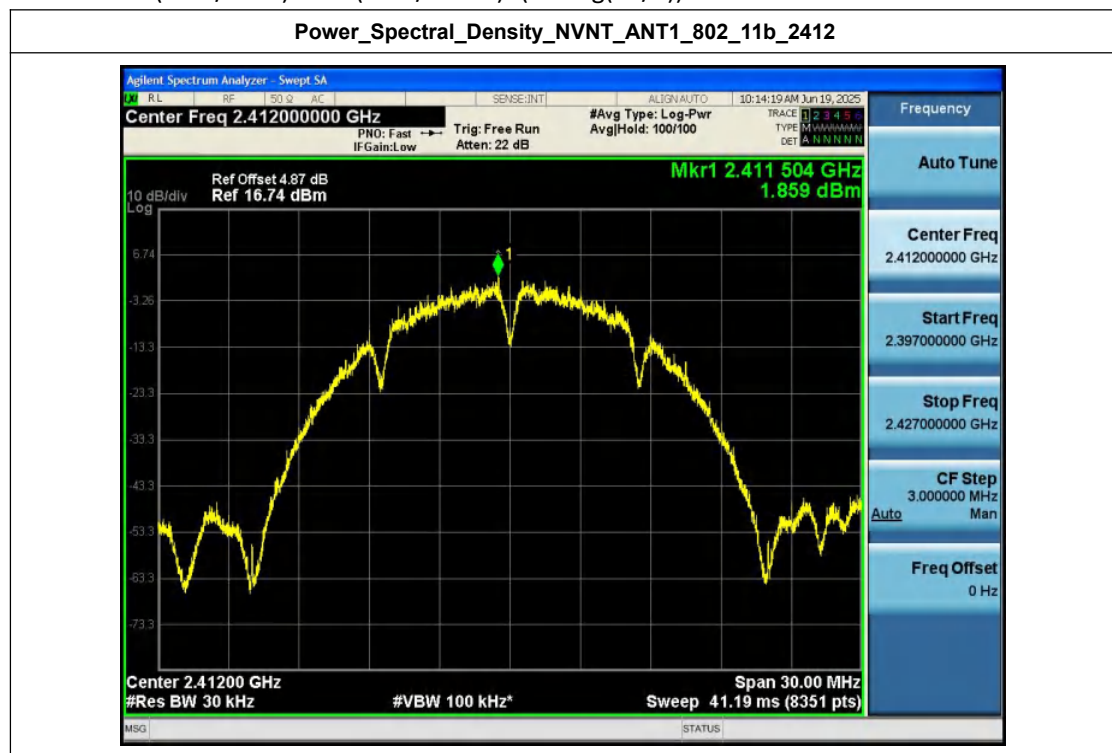
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



Appendix E: Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3 kHz)	limit(dBm/3 kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.86	0.00	-10.00	-8.14	8	Pass
NVNT	ANT1	802.11b	2437.00	0.81	0.00	-10.00	-9.19	8	Pass
NVNT	ANT1	802.11b	2462.00	1.54	0.00	-10.00	-8.46	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.30	0.00	-10.00	-11.30	8	Pass
NVNT	ANT1	802.11g	2437.00	-0.74	0.00	-10.00	-10.74	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.85	0.00	-10.00	-10.85	8	Pass
NVNT	ANT1	802.11n(HT 20)	2412.00	-0.61	0.00	-10.00	-10.62	8	Pass
NVNT	ANT1	802.11n(HT 20)	2437.00	-0.80	0.00	-10.00	-10.80	8	Pass
NVNT	ANT1	802.11n(HT 20)	2462.00	-0.79	0.00	-10.00	-10.79	8	Pass

Note: 1.The cable loss are compensated in the graph.
2.PSD(dBm/3kHz)= PSD(dBm/30kHz)- (10*log(30/3)).



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



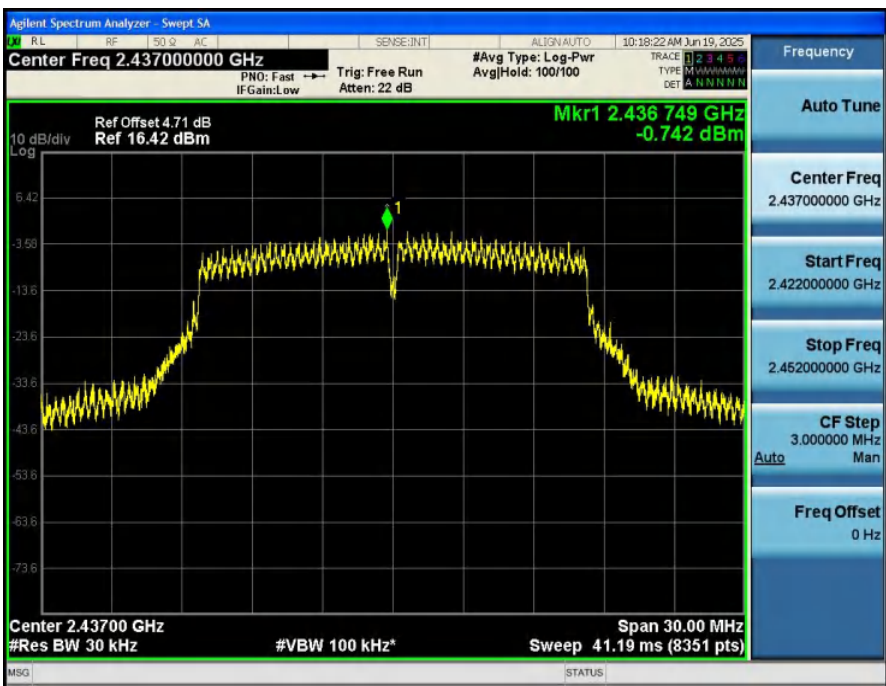
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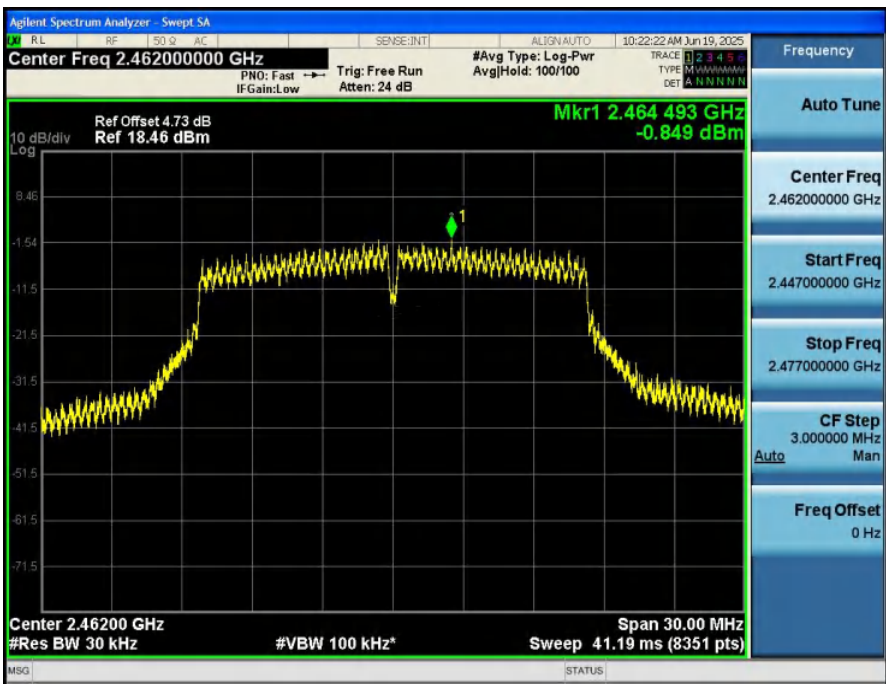
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



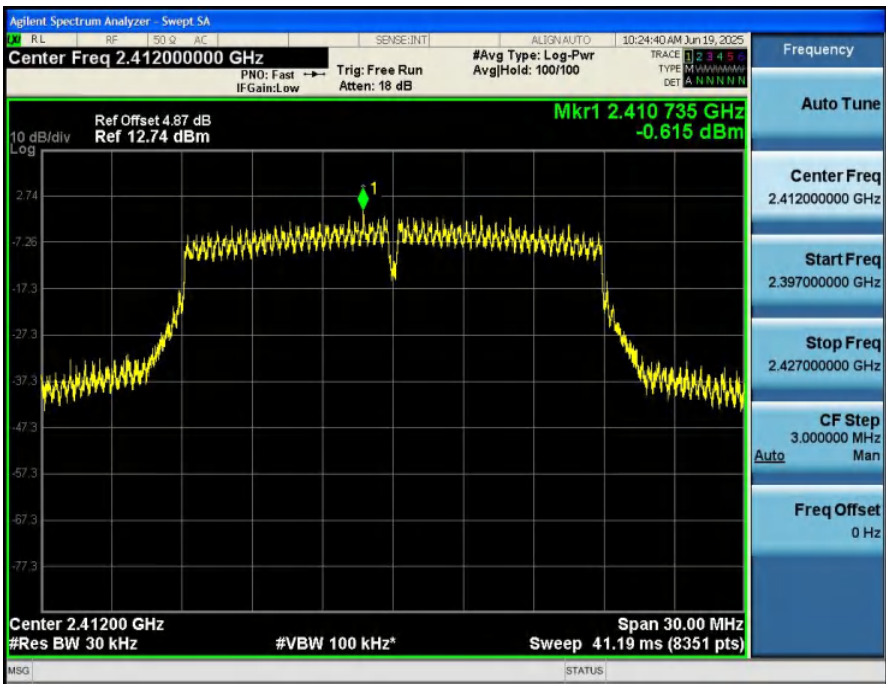
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



Power_Spectral_Density_NVNT_ANT1_802_11g_2462



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412

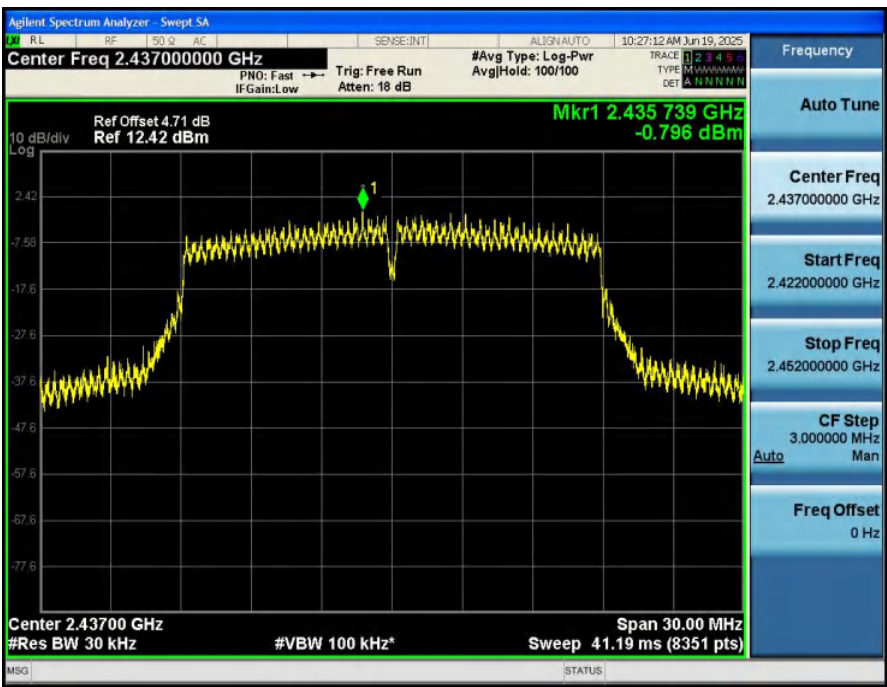


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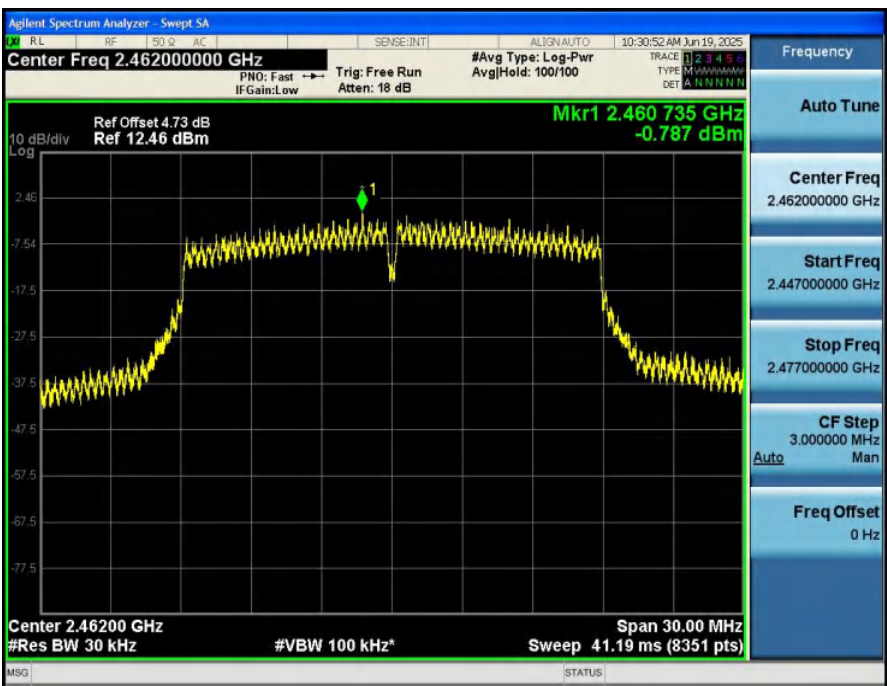
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



Appendix F: Bandedge

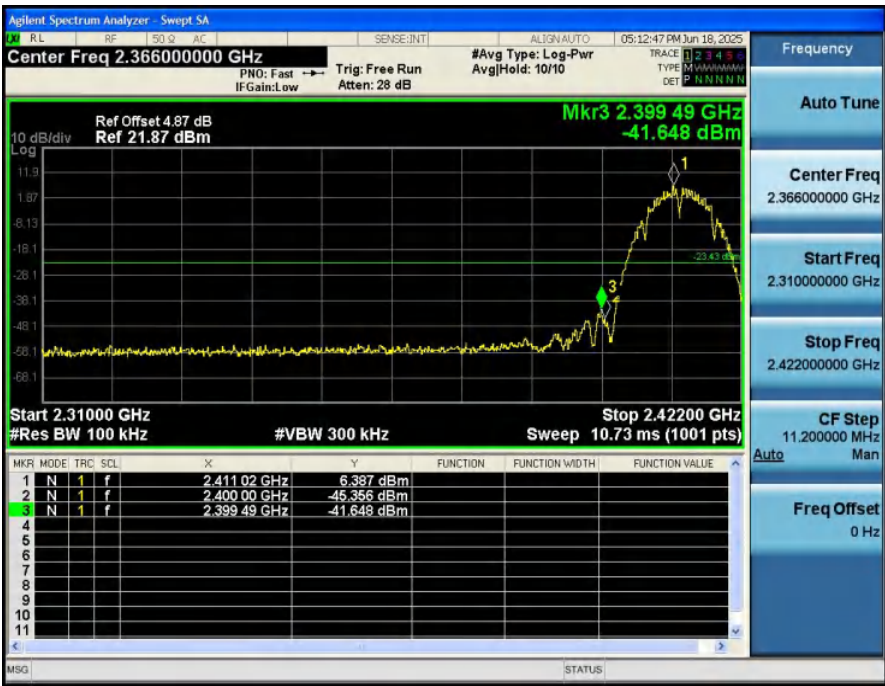
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.488	6.575	-41.648	-23.425	Pass
NVNT	ANT1	802.11b	2462.00	2495.296	5.510	-51.123	-24.490	Pass
NVNT	ANT1	802.11g	2412.00	2398.928	1.132	-36.456	-28.868	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	0.339	-48.491	-29.661	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	1.188	-37.770	-28.812	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.920	1.252	-48.969	-28.748	Pass

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'offset' of the Spectrum Analyzer during the test.

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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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



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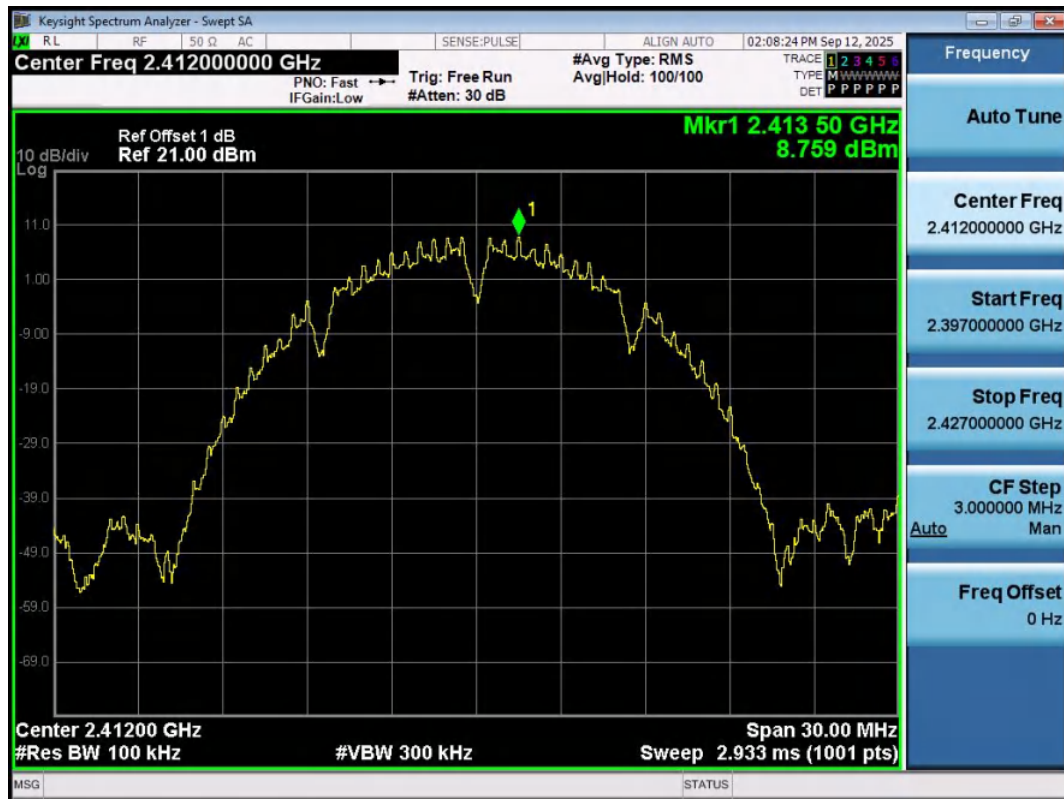
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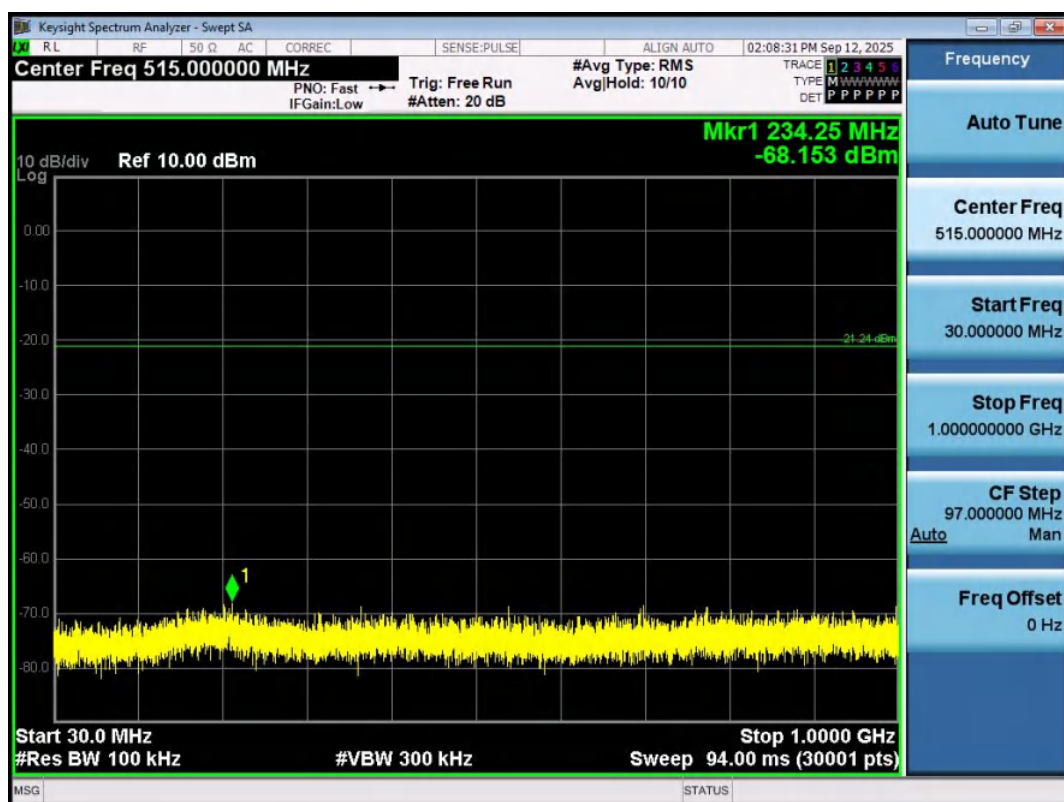
Appendix G: Spurious Emission

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	8.76	8.76	---	PASS
11B	Ant1	2412	30~1000	8.76	-68.15	≤-21.24	PASS
11B	Ant1	2412	1000~26500	8.76	-42.56	≤-21.24	PASS
11B	Ant1	2437	0~Reference	8.24	8.24	---	PASS
11B	Ant1	2437	30~1000	8.24	-68.15	≤-21.76	PASS
11B	Ant1	2437	1000~26500	8.24	-44.49	≤-21.76	PASS
11B	Ant1	2462	0~Reference	7.96	7.96	---	PASS
11B	Ant1	2462	30~1000	7.96	-68.73	≤-22.04	PASS
11B	Ant1	2462	1000~26500	7.96	-47.62	≤-22.04	PASS
11G	Ant1	2412	0~Reference	7.29	7.29	---	PASS
11G	Ant1	2412	30~1000	7.29	-60.52	≤-22.71	PASS
11G	Ant1	2412	1000~26500	7.29	-51.28	≤-22.71	PASS
11G	Ant1	2437	0~Reference	7.65	7.65	---	PASS
11G	Ant1	2437	30~1000	7.65	-68.38	≤-22.35	PASS
11G	Ant1	2437	1000~26500	7.65	-53.3	≤-22.35	PASS
11G	Ant1	2462	0~Reference	6.50	6.50	---	PASS
11G	Ant1	2462	30~1000	6.50	-67.85	≤-23.5	PASS
11G	Ant1	2462	1000~26500	6.50	-53.49	≤-23.5	PASS
11N20SISO	Ant1	2412	0~Reference	7.02	7.02	---	PASS
11N20SISO	Ant1	2412	30~1000	7.02	-68.42	≤-22.98	PASS
11N20SISO	Ant1	2412	1000~26500	7.02	-50.83	≤-22.98	PASS
11N20SISO	Ant1	2437	0~Reference	7.83	7.83	---	PASS
11N20SISO	Ant1	2437	30~1000	7.83	-67.47	≤-22.17	PASS
11N20SISO	Ant1	2437	1000~26500	7.83	-52.86	≤-22.17	PASS
11N20SISO	Ant1	2462	0~Reference	7.57	7.57	---	PASS
11N20SISO	Ant1	2462	30~1000	7.57	-67.31	≤-22.43	PASS
11N20SISO	Ant1	2462	1000~26500	7.57	-52.18	≤-22.43	PASS

Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



11B-Ant1-2412-0~Reference-PASS

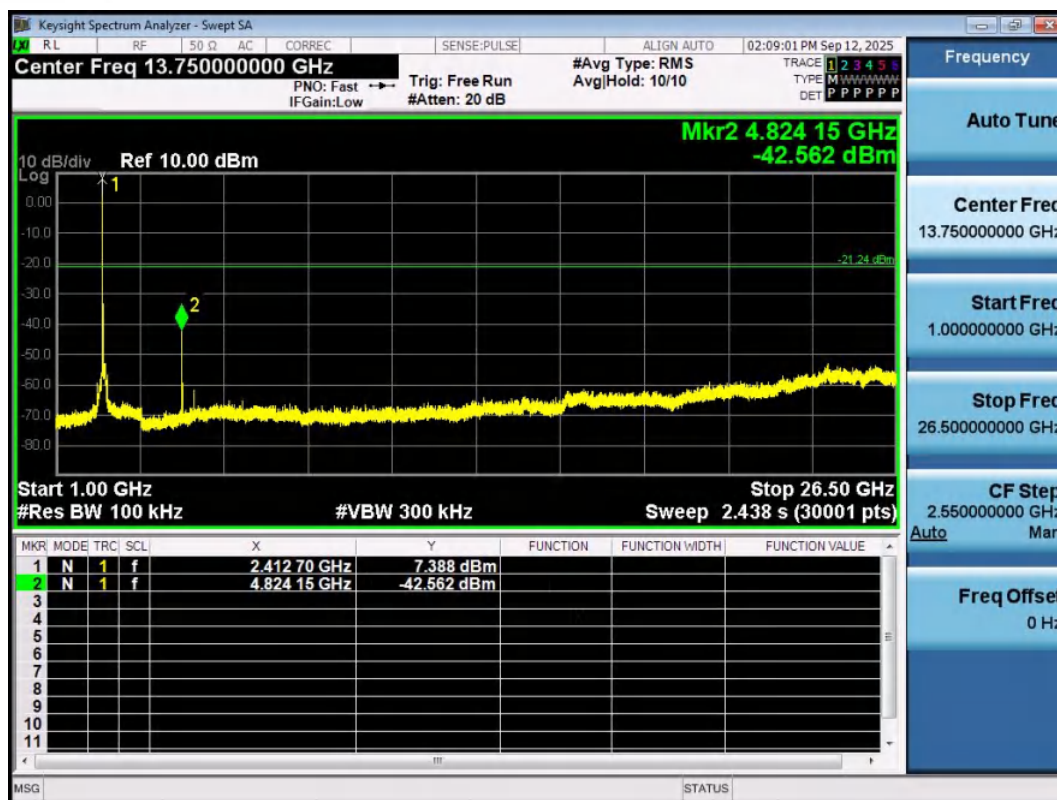


11B-Ant1-2412-30~1000-PASS

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11B-Ant1-2412-1000~26500-PASS

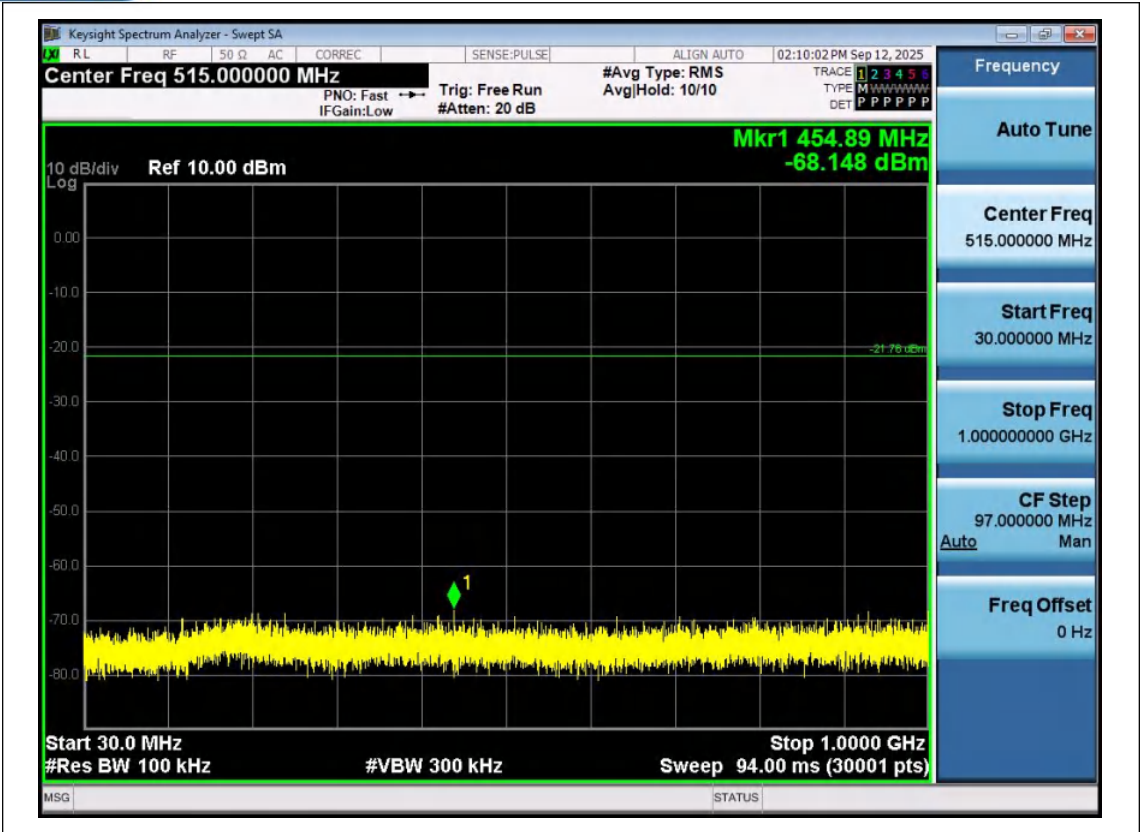


11B-Ant1-2437-0~Reference-PASS

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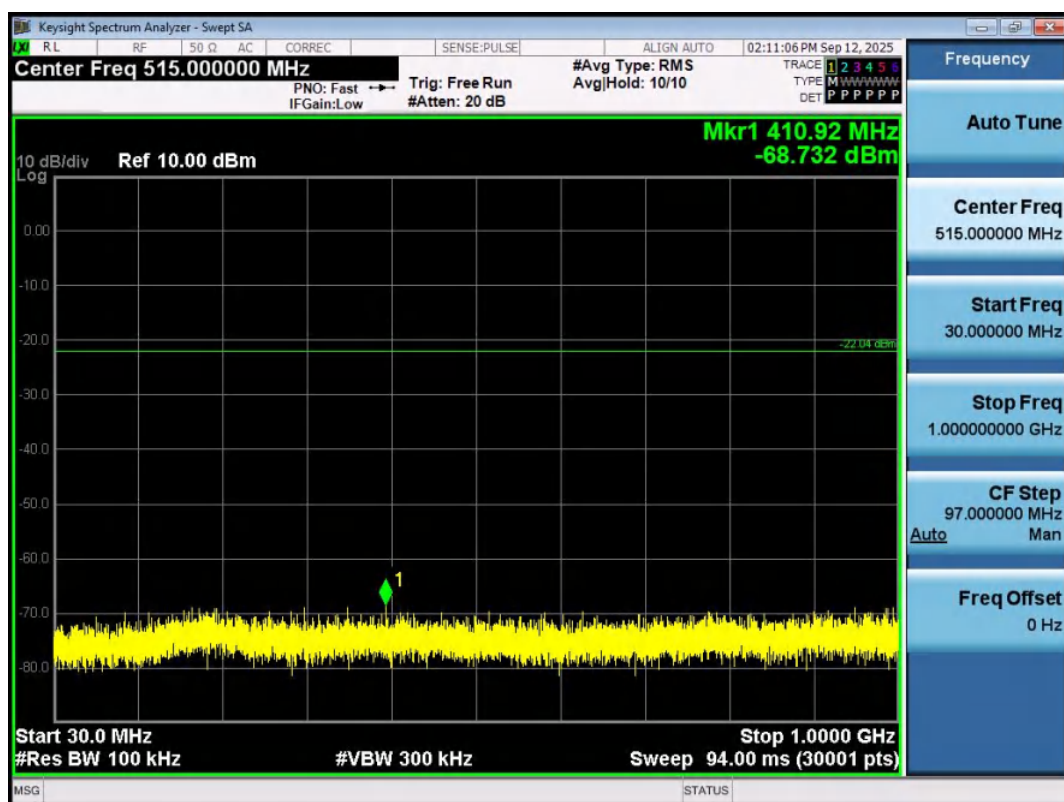
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11B-Ant1-2462-0~Reference-PASS

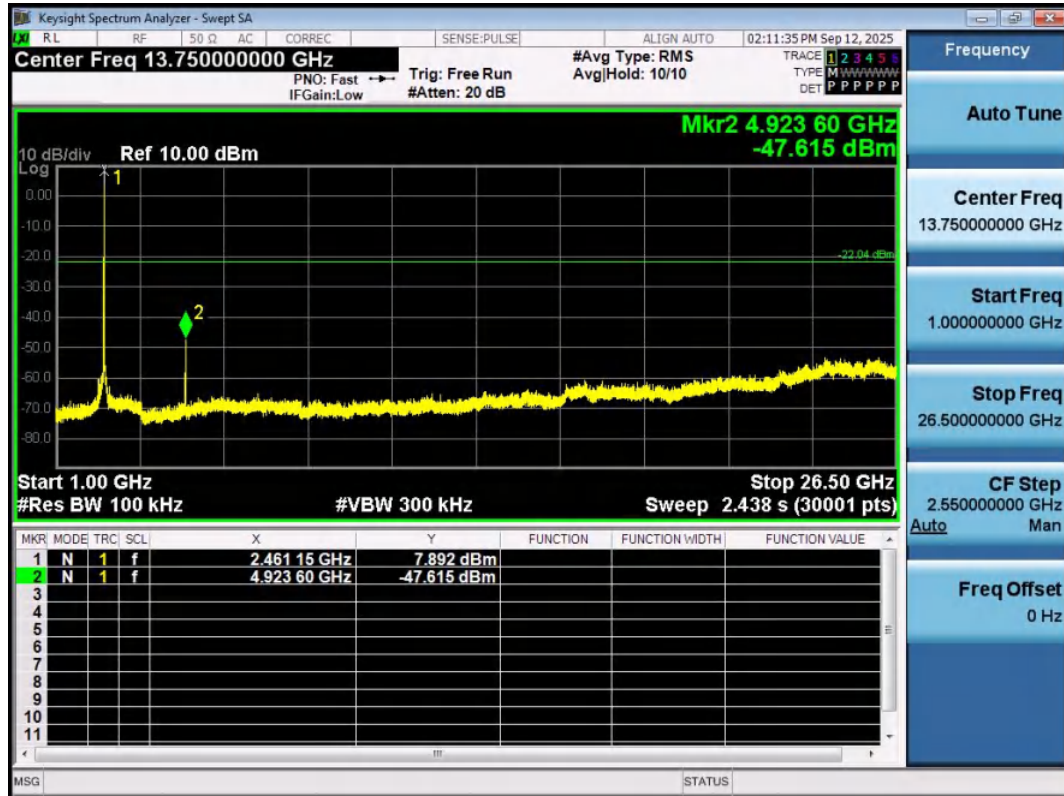


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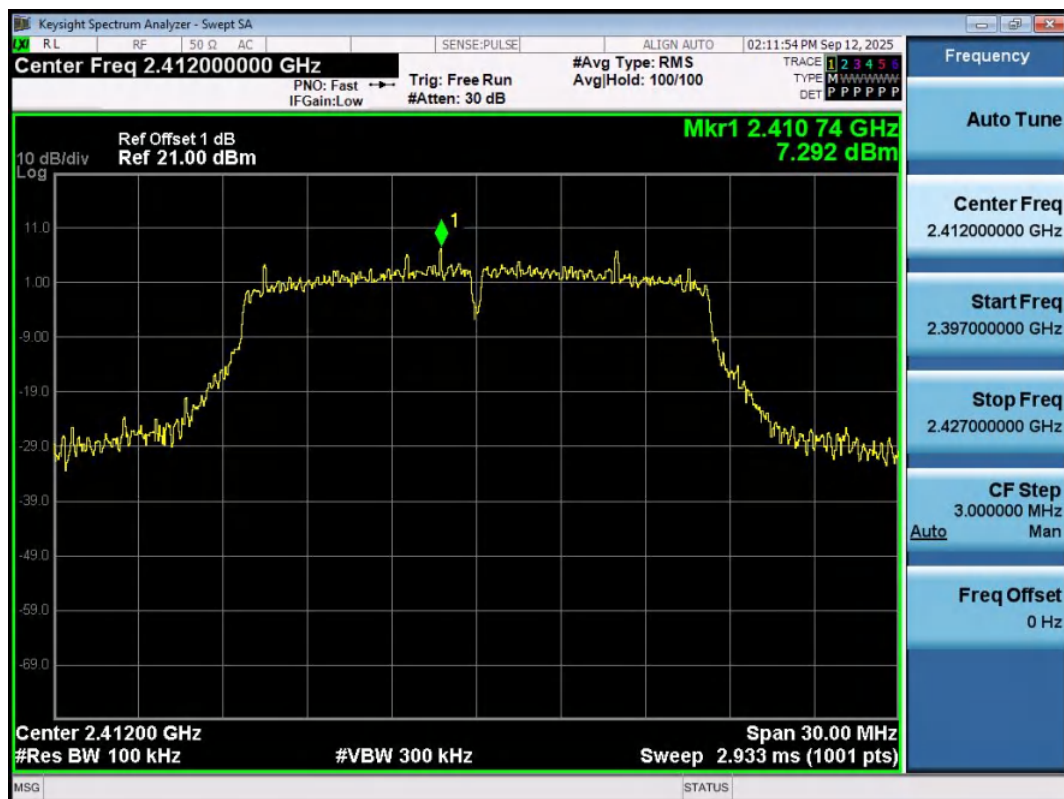
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11B-Ant1-2462-1000~26500-PASS

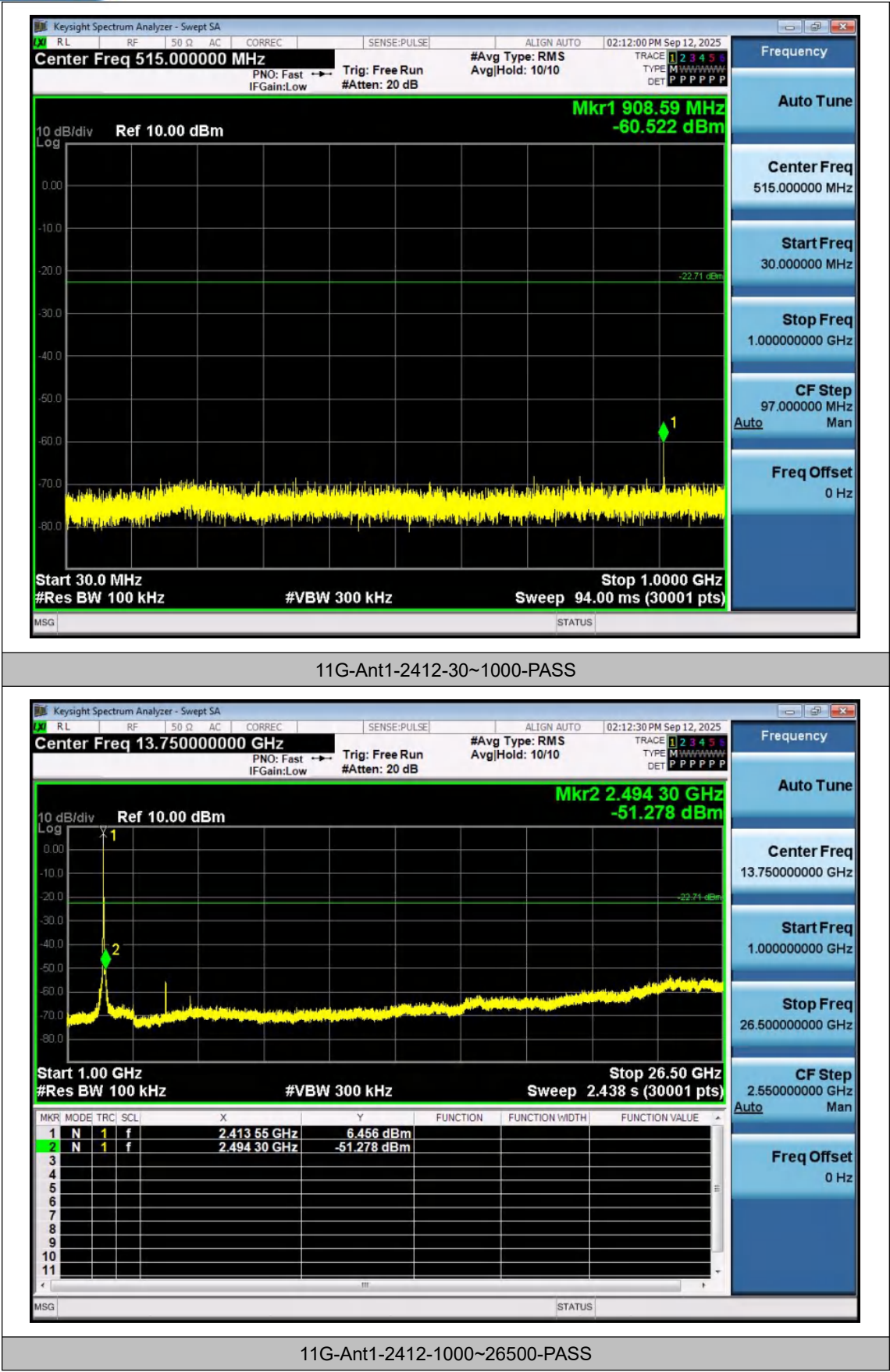


11G-Ant1-2412-0~Reference-PASS

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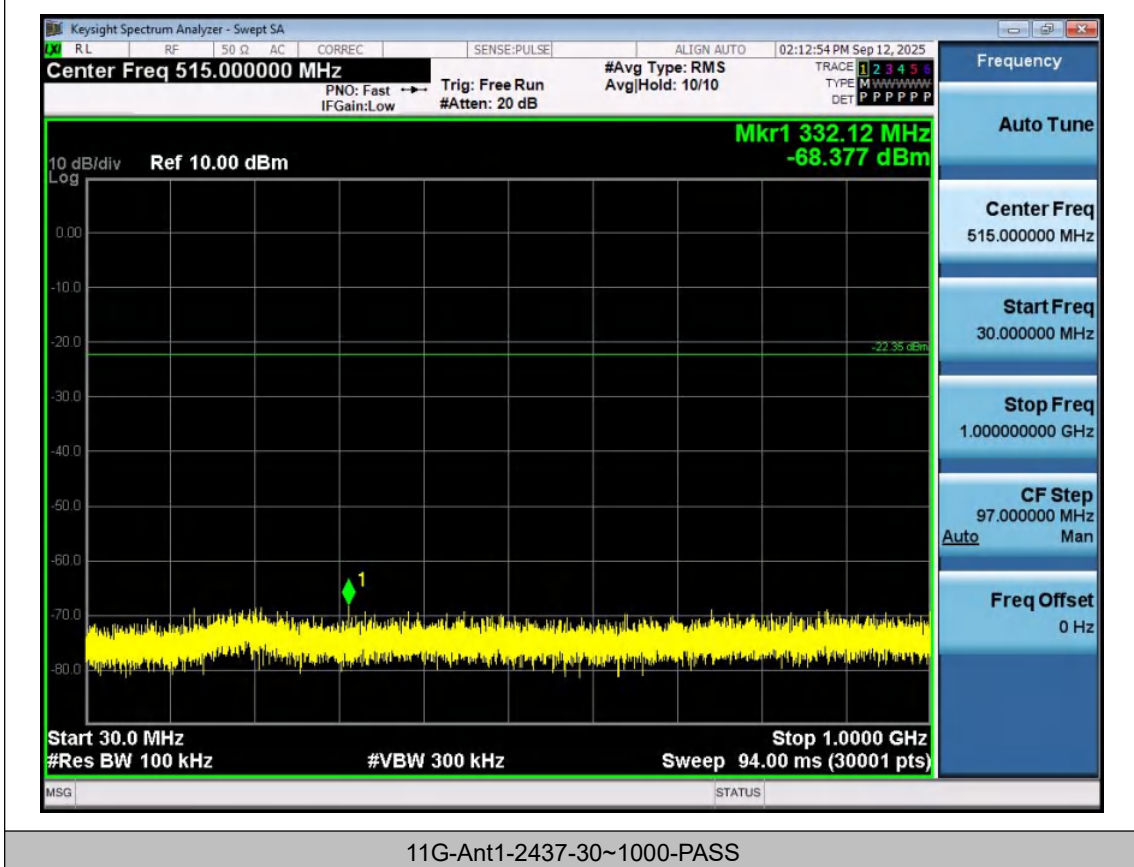
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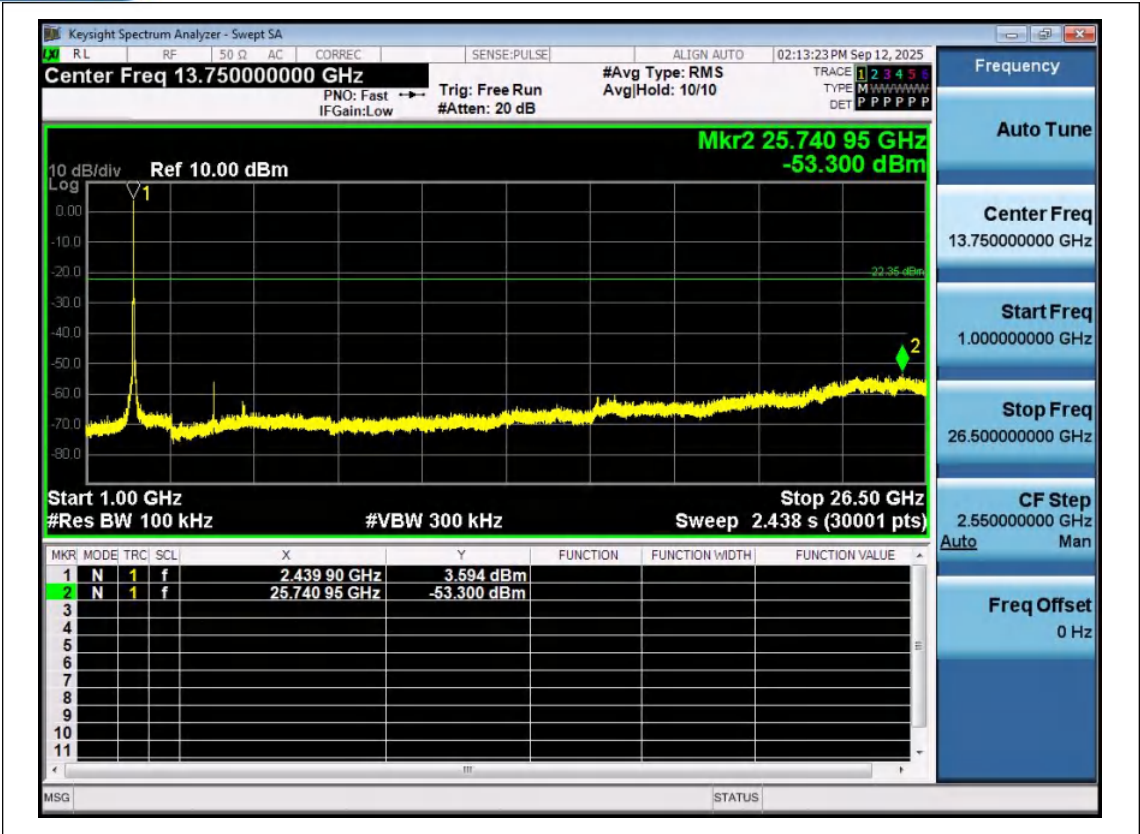
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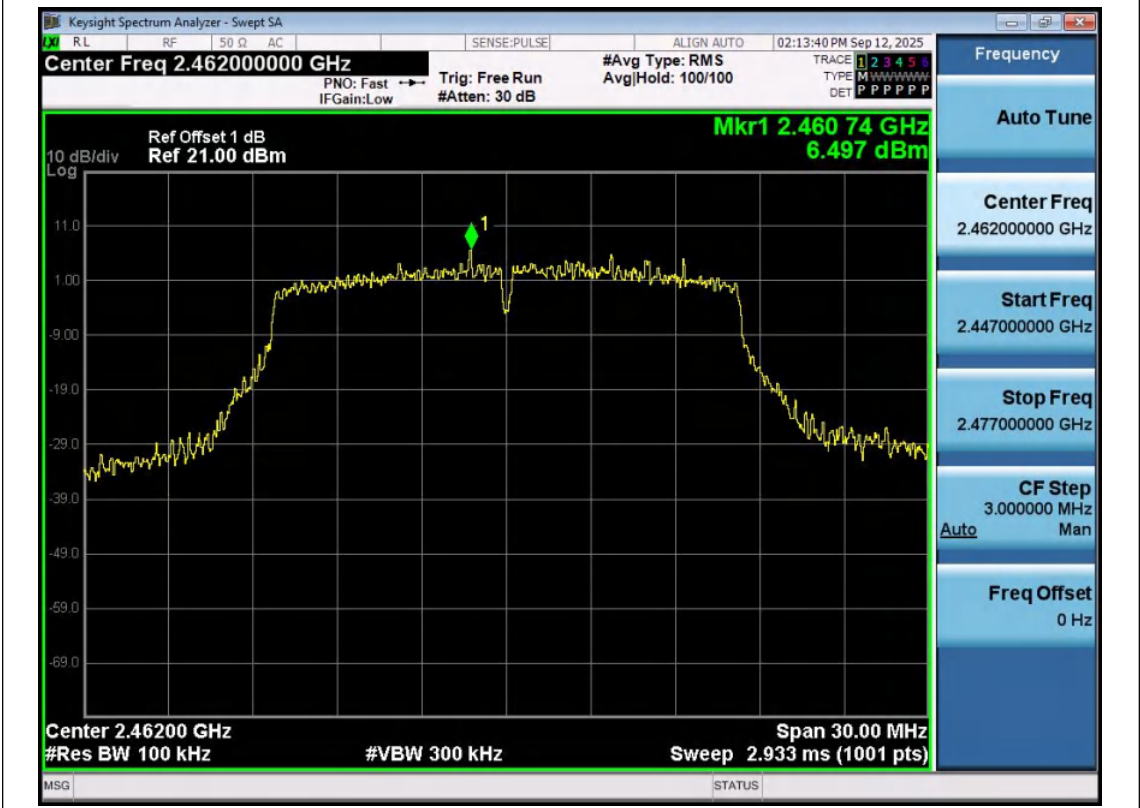
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11G-Ant1-2437-1000~26500-PASS

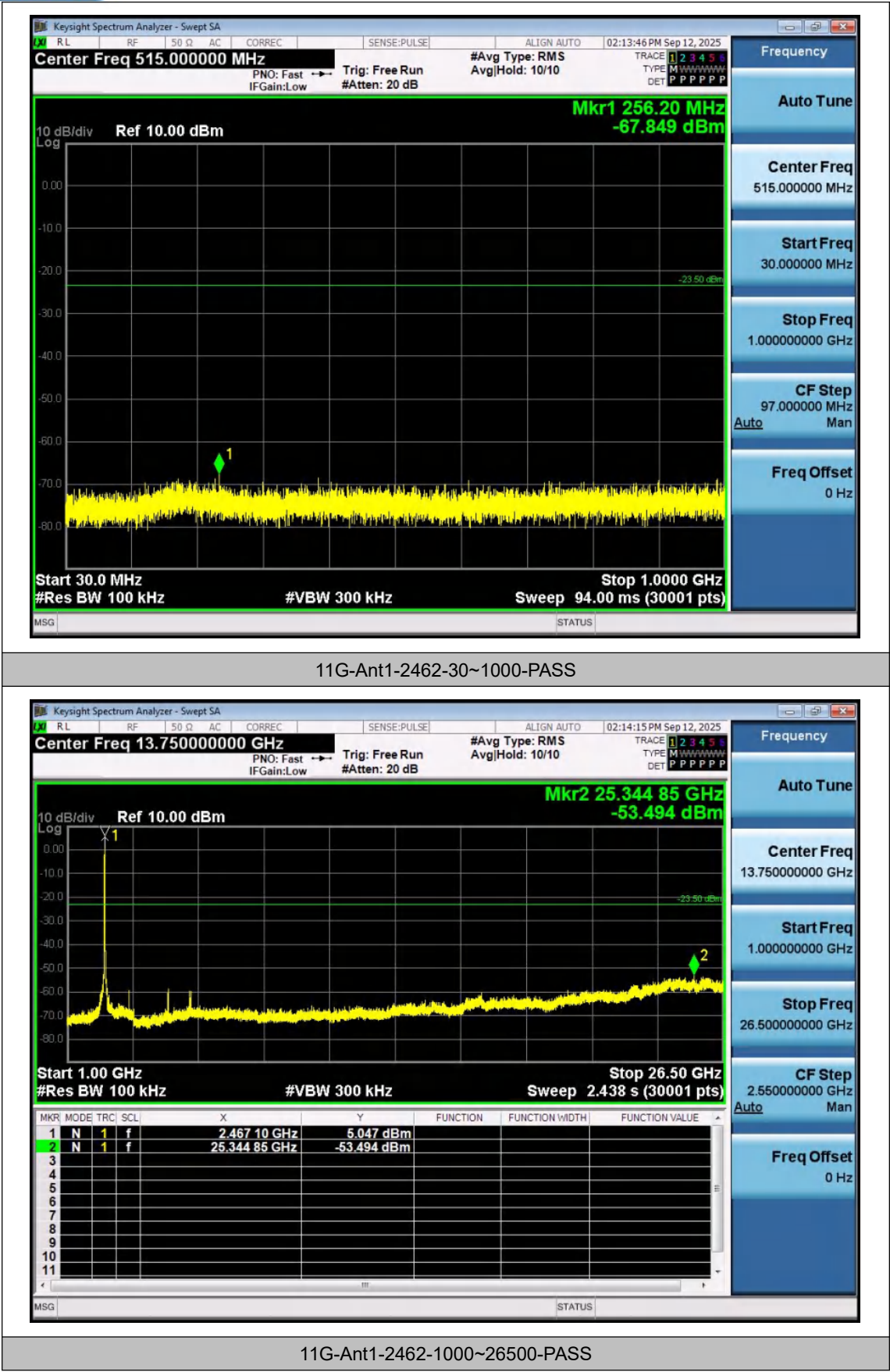


11G-Ant1-2462-0~Reference-PASS

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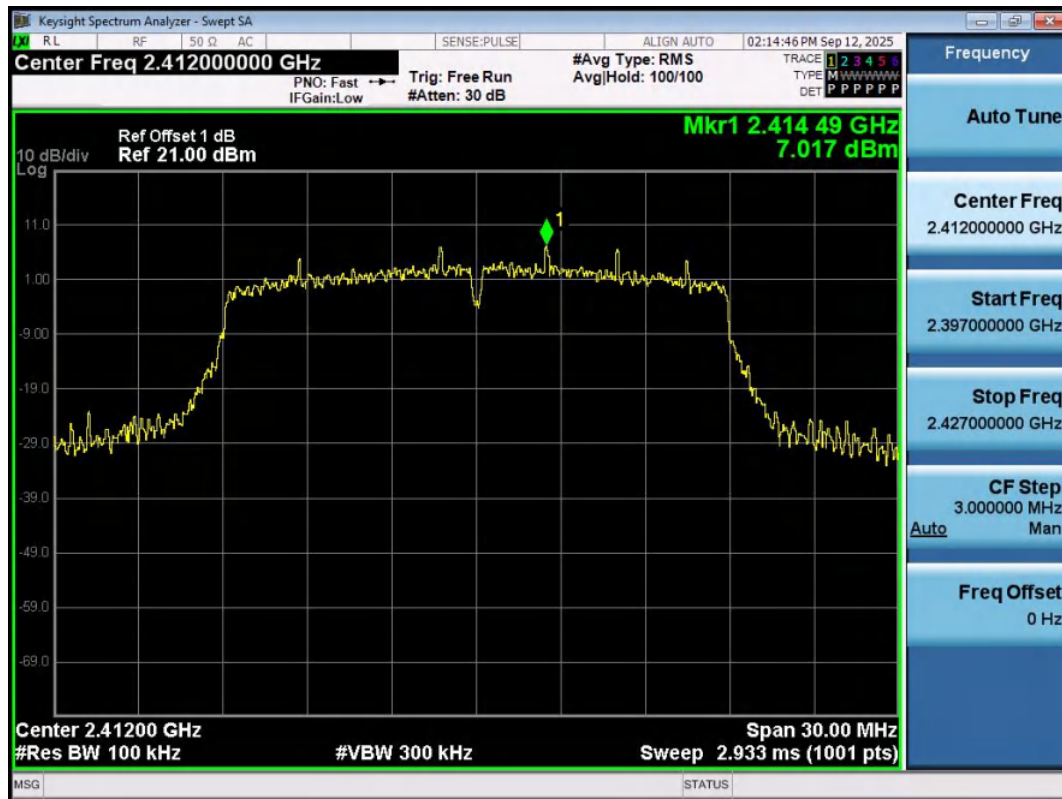
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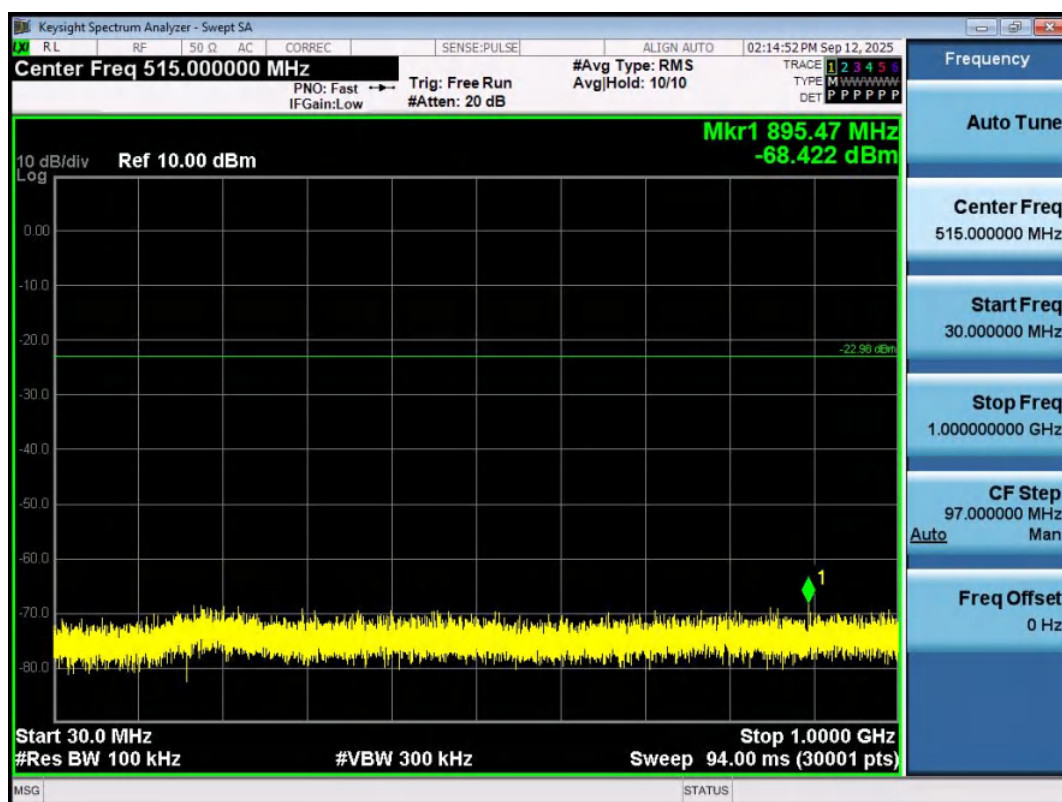
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11N20SISO-Ant1-2412-0~Reference-PASS

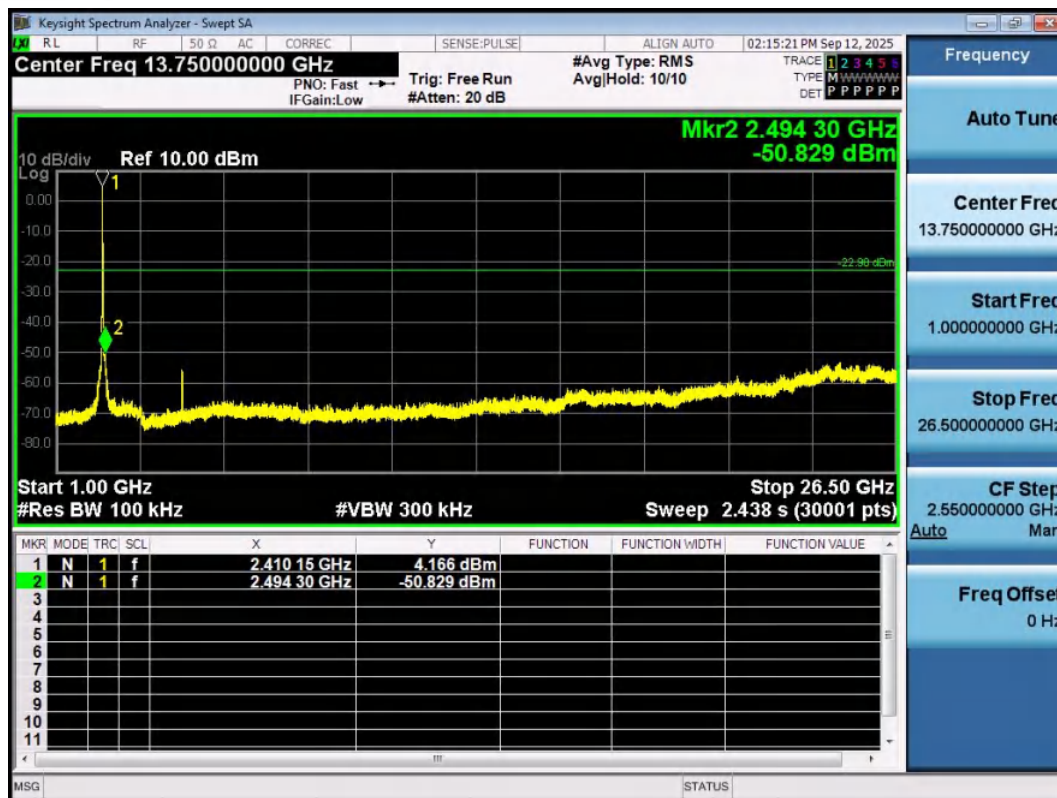


11N20SISO-Ant1-2412-30~1000-PASS

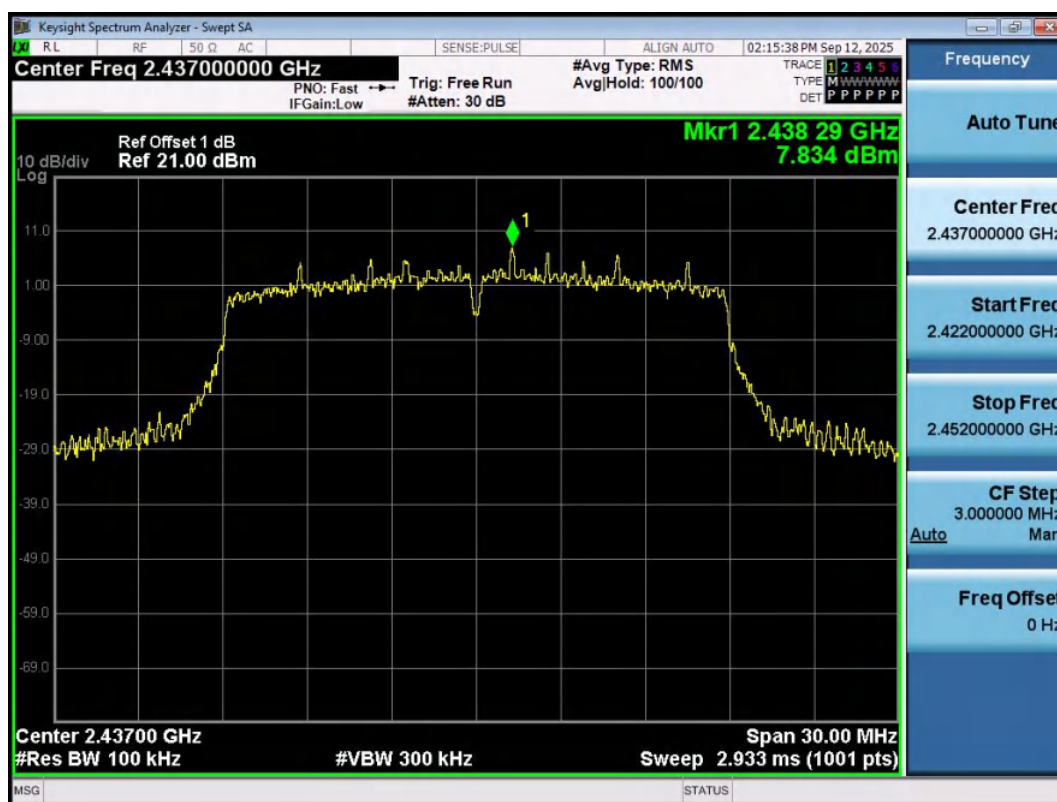
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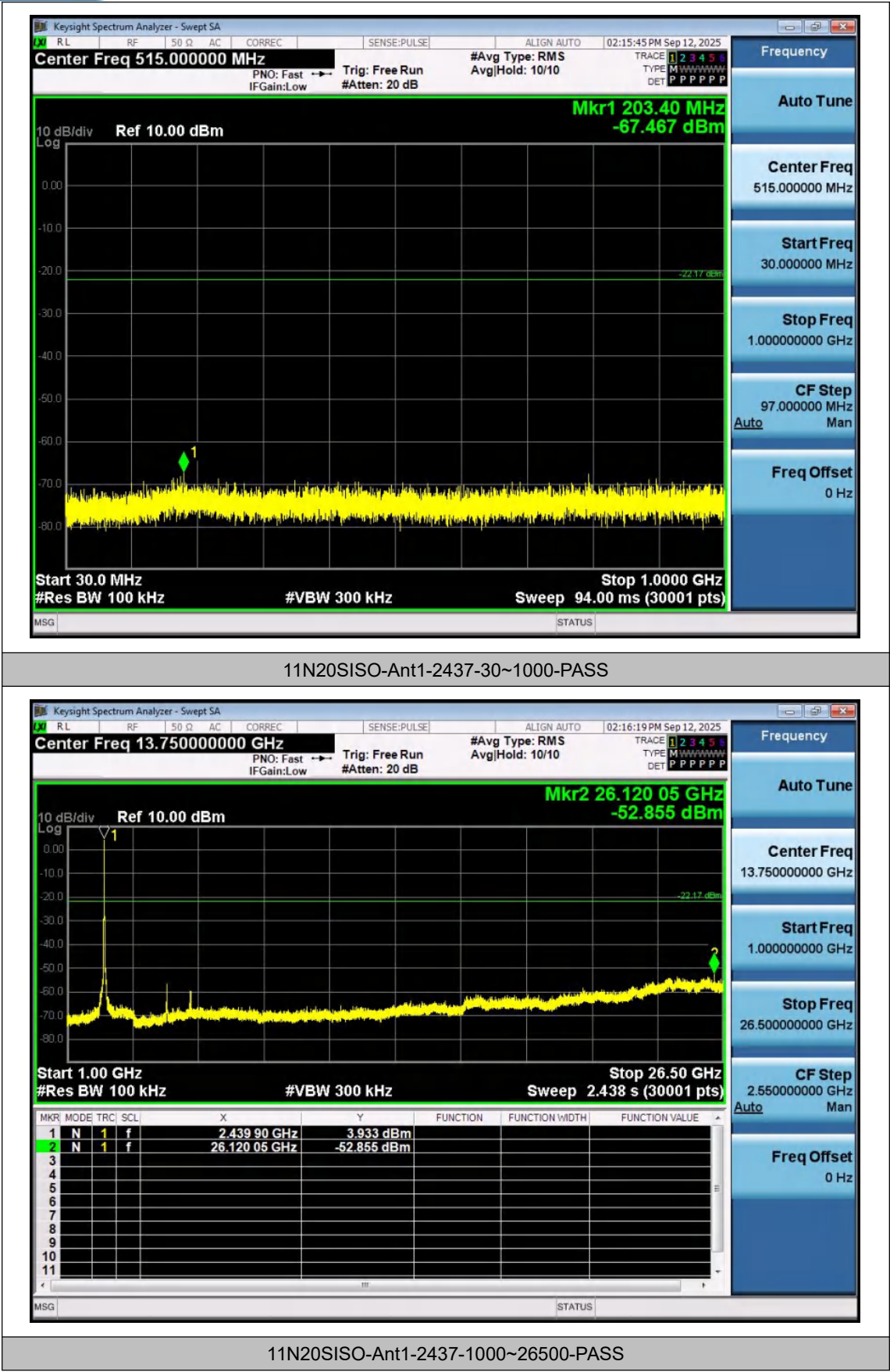


11N20SISO-Ant1-2437-0~Reference-PASS

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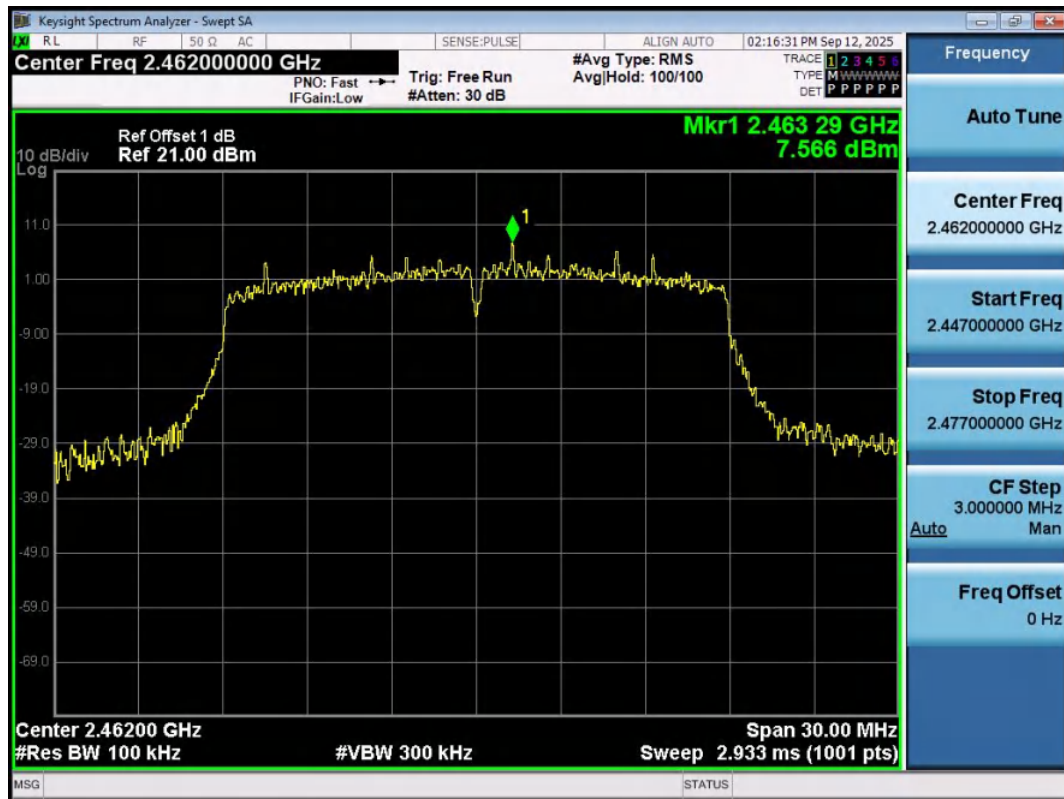
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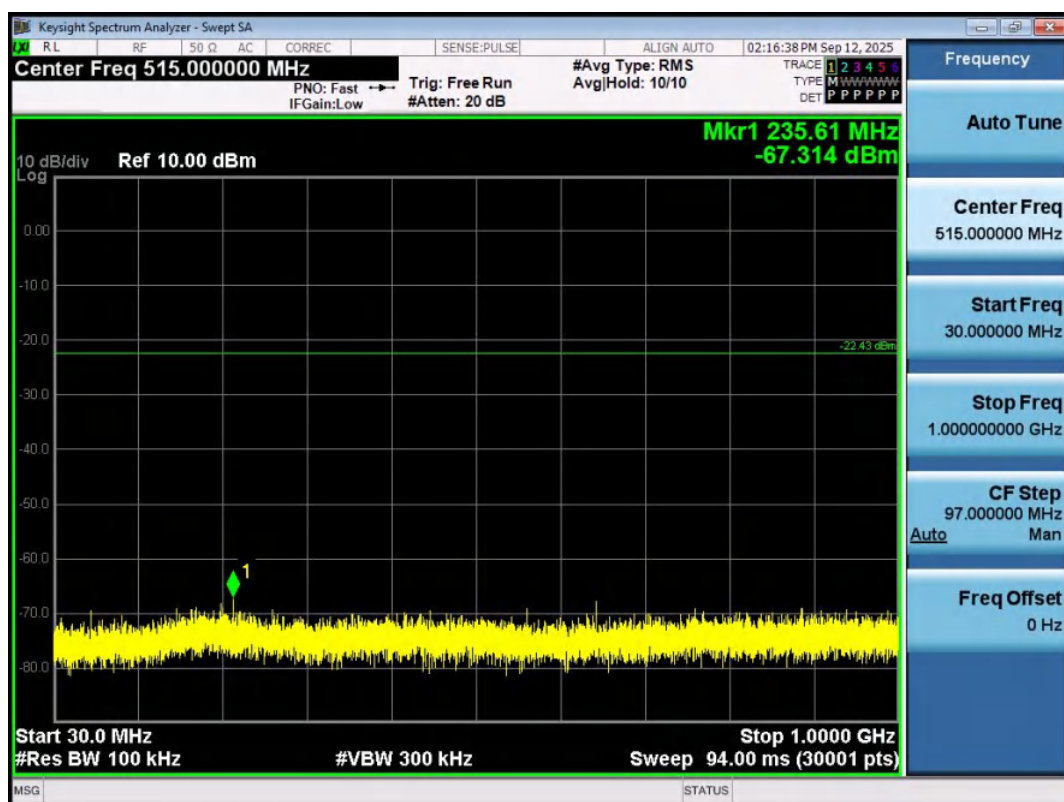
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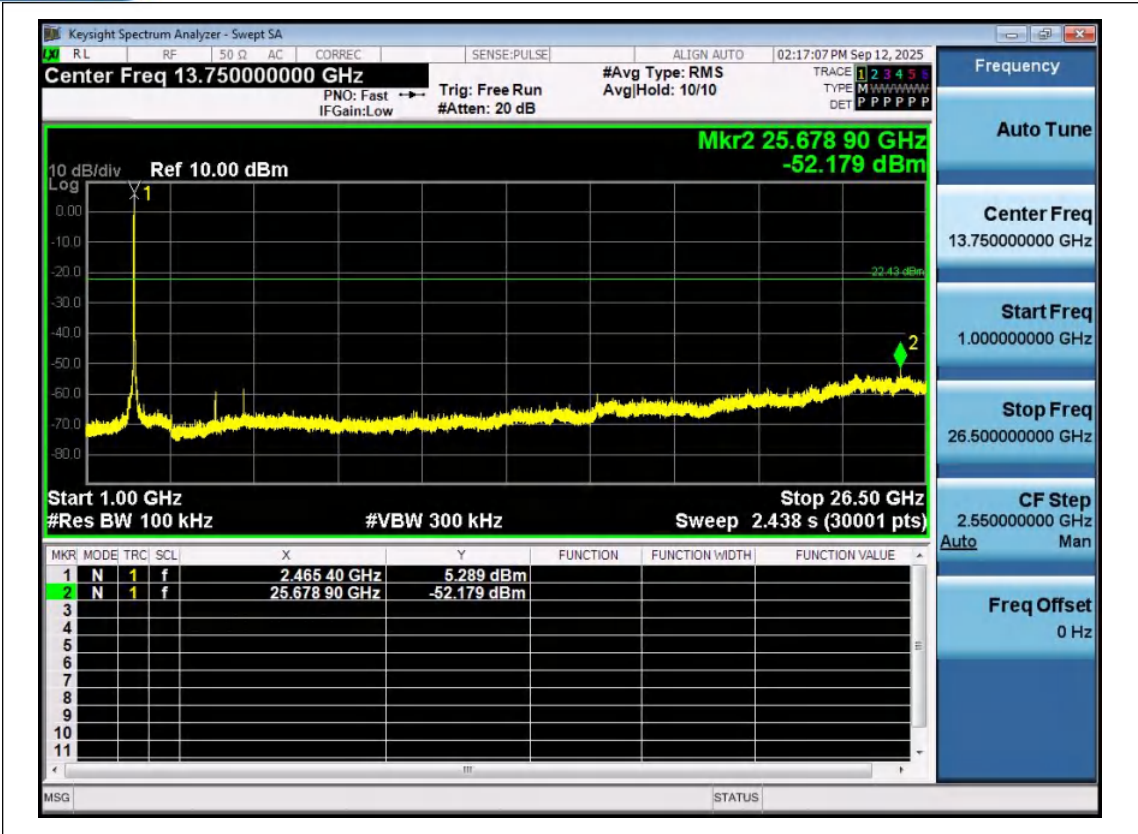


11N20SISO-Ant1-2462-30~1000-PASS

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