

Appendix Test Data

Report No.:	1812C50144412502	Test Sample No.:	1-2-2
Start Test Date:	2025-04-18	Finish Test Date:	2025-04-18
Test Engineer:	Alex Reng	Auditor:	Justin Feng
Temperature:	26°C	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.240	2407.440	2416.680	0.5	PASS
11B	Ant1	2437	9.240	2432.440	2441.680	0.5	PASS
11B	Ant1	2462	9.280	2457.400	2466.680	0.5	PASS
11G	Ant1	2412	16.480	2403.880	2420.360	0.5	PASS
11G	Ant1	2437	16.360	2428.920	2445.280	0.5	PASS
11G	Ant1	2462	16.360	2453.920	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.280	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.640	2428.240	2445.880	0.5	PASS
11N20SISO	Ant1	2462	17.640	2453.240	2470.880	0.5	PASS

Test Graphs



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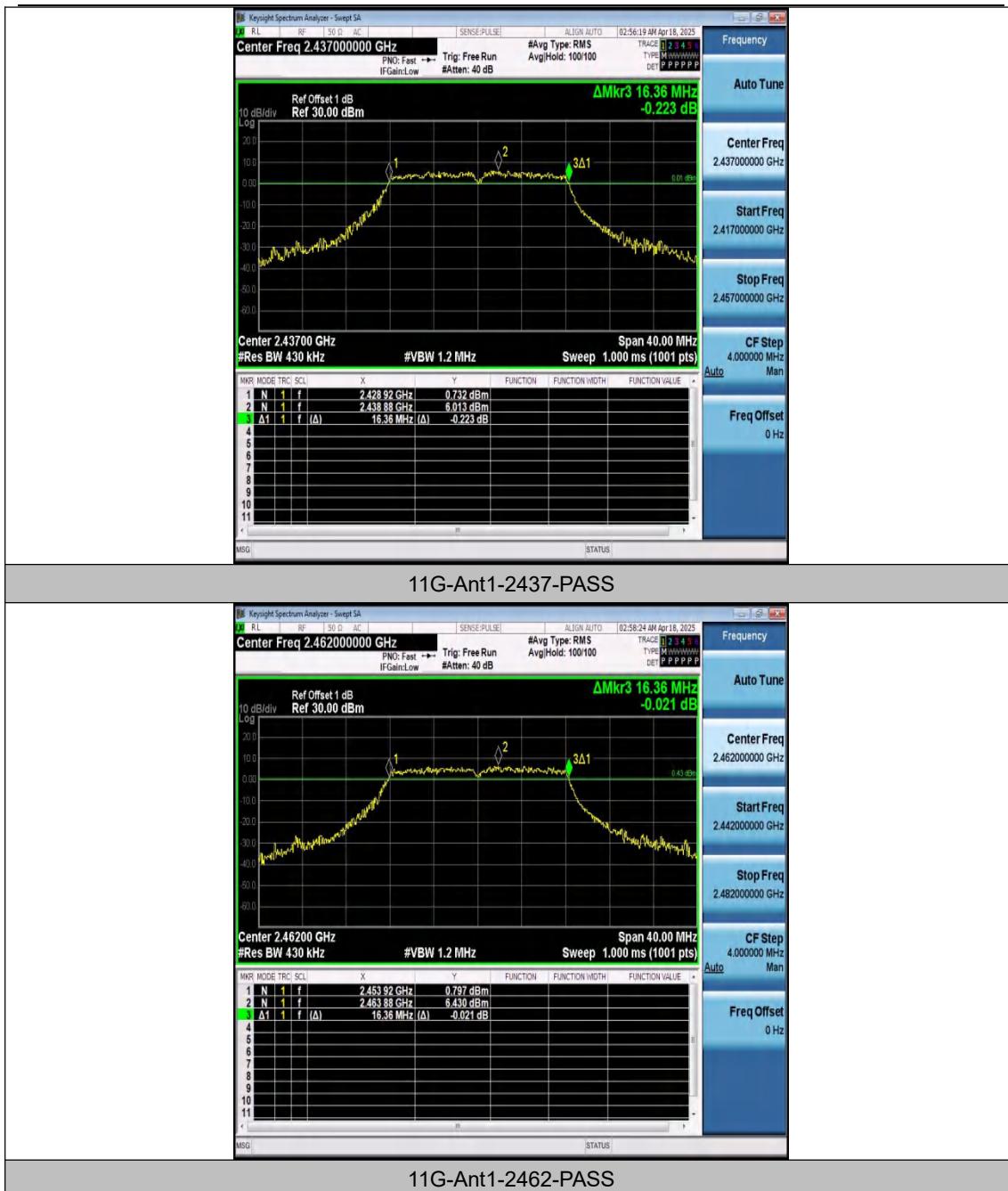
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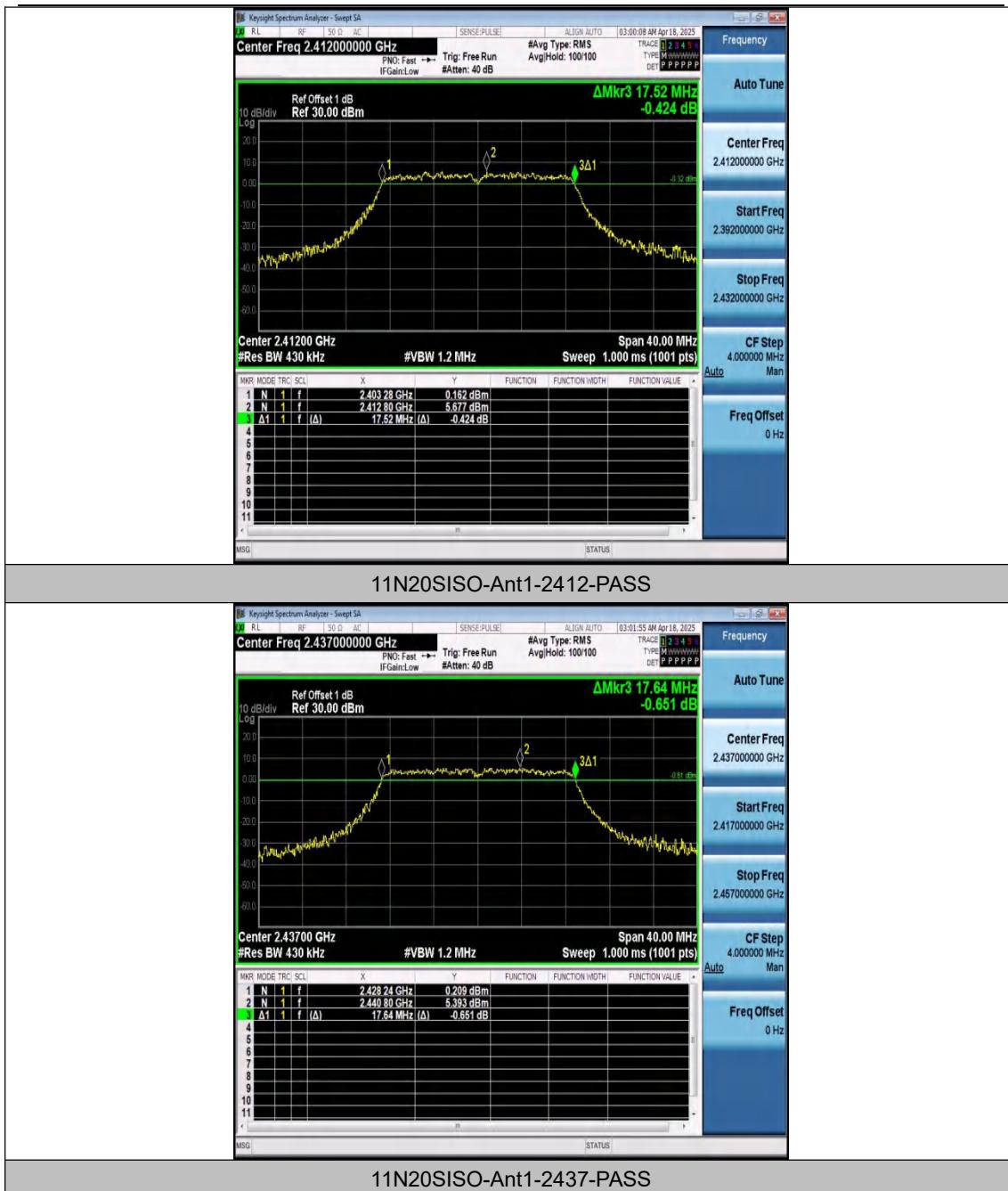
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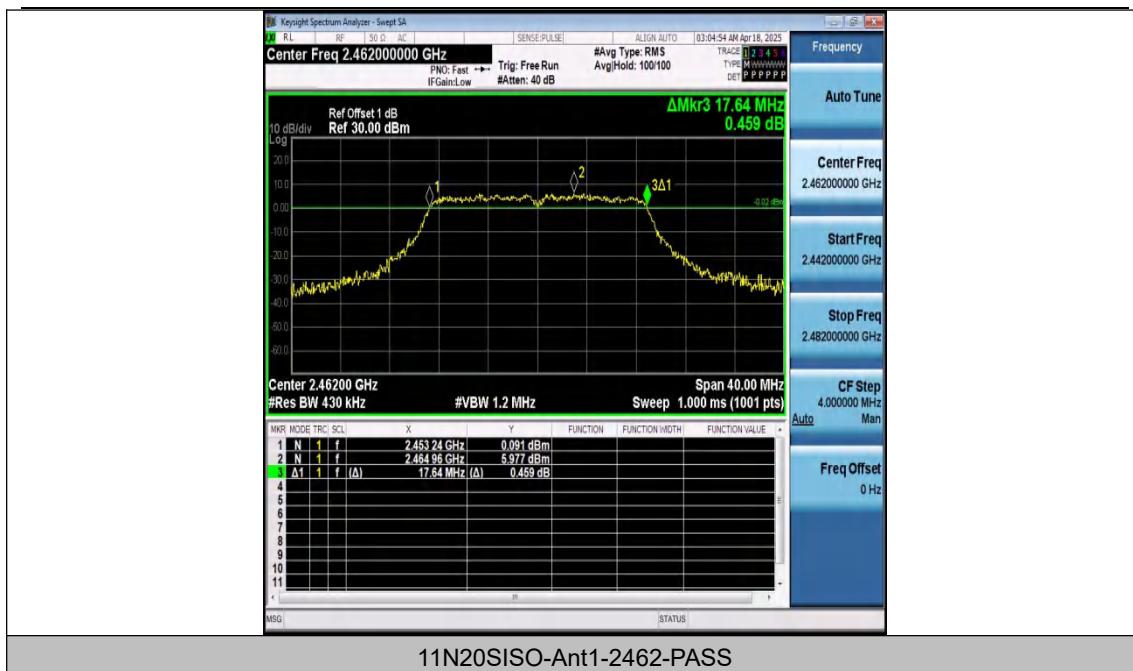
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.064	2404.9937	2419.0577	---	---
11B	Ant1	2437	14.104	2429.9687	2444.0727	---	---
11B	Ant1	2462	14.124	2454.9540	2469.0780	---	---
11G	Ant1	2412	17.439	2403.3128	2420.7518	---	---
11G	Ant1	2437	17.075	2428.4505	2445.5255	---	---
11G	Ant1	2462	17.079	2453.4564	2470.5354	---	---
11N20SISO	Ant1	2412	18.135	2402.9843	2421.1193	---	---
11N20SISO	Ant1	2437	18.173	2427.9458	2446.1188	---	---
11N20SISO	Ant1	2462	18.188	2452.9517	2471.1397	---	---

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Test Graphs



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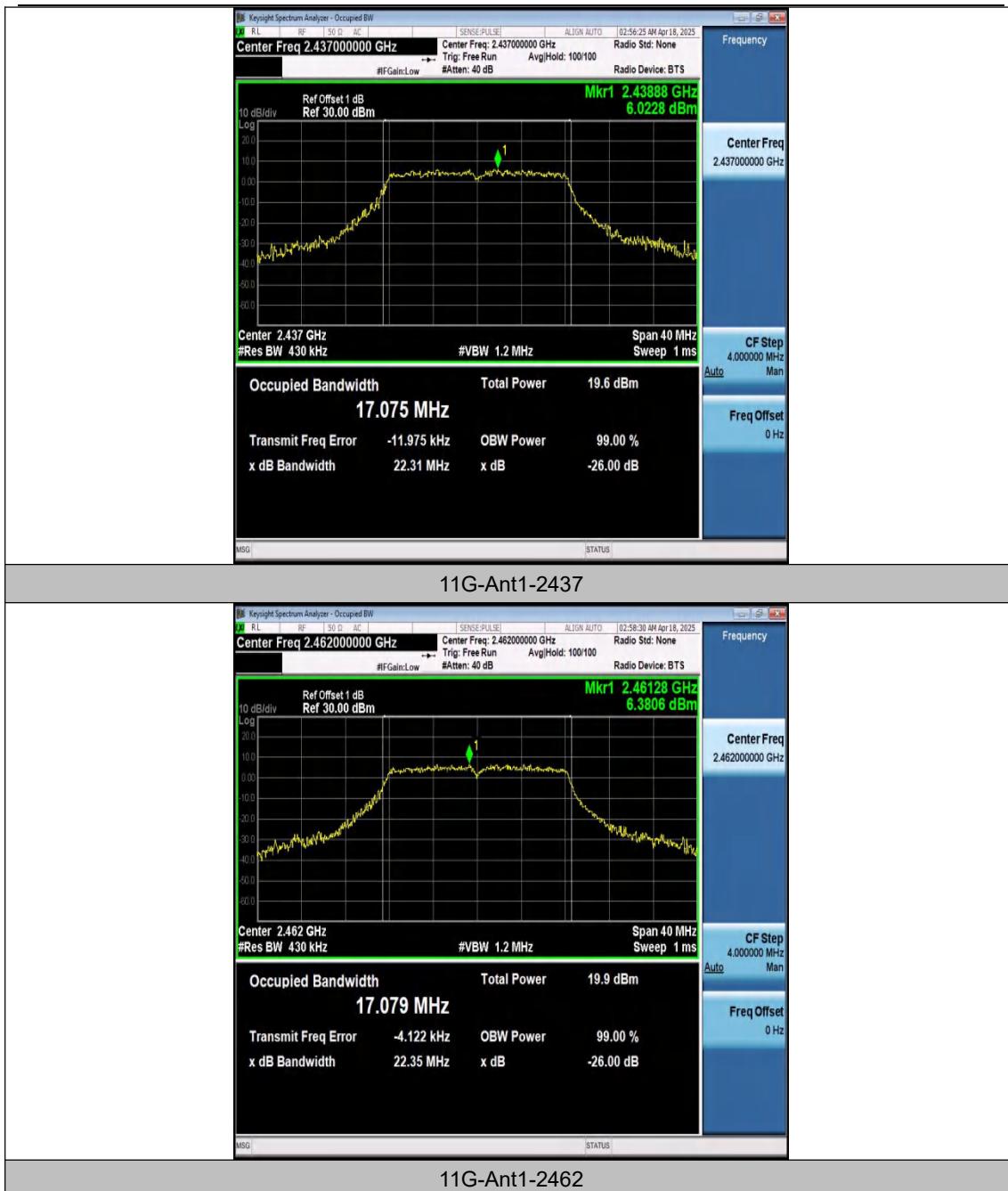
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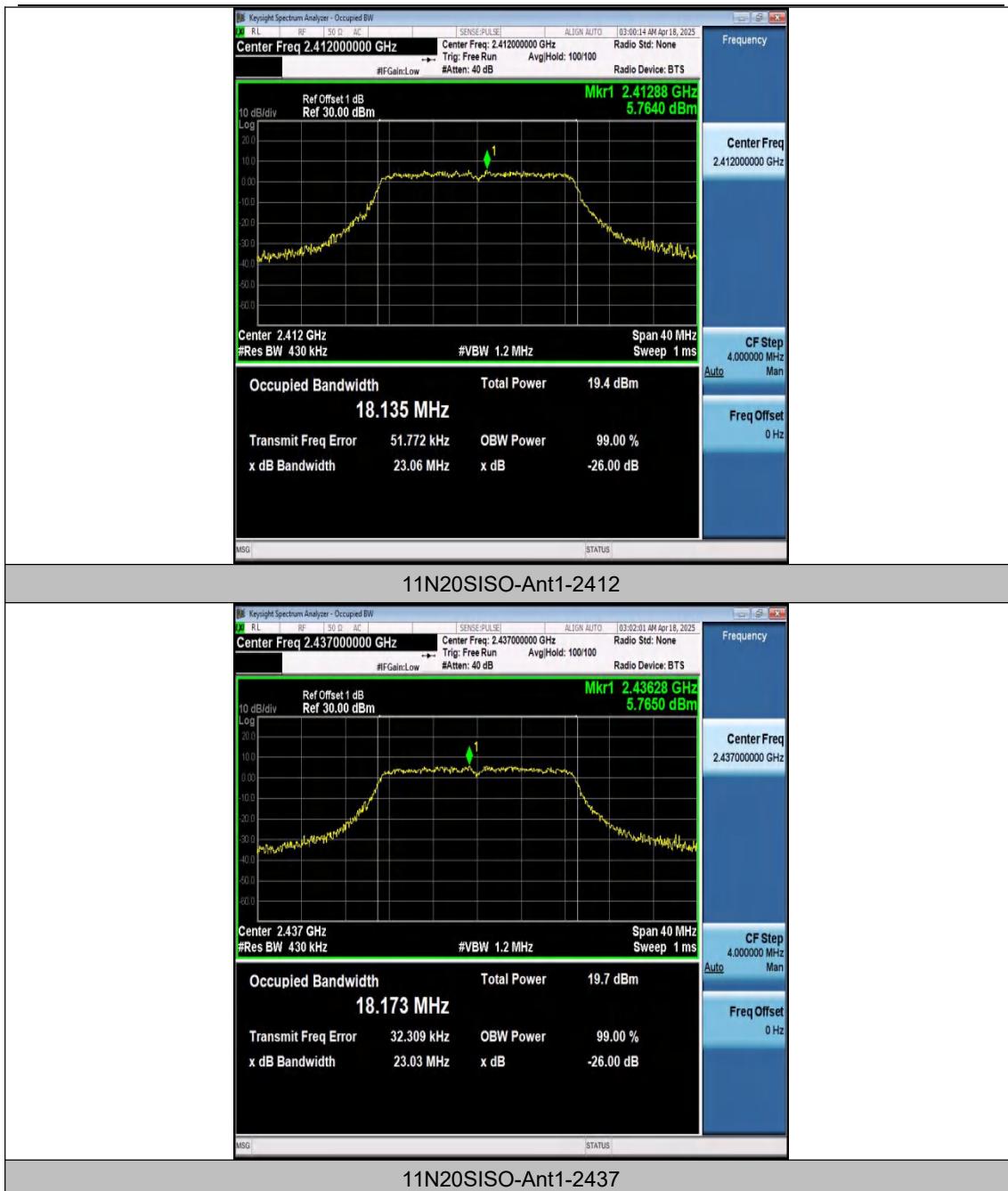
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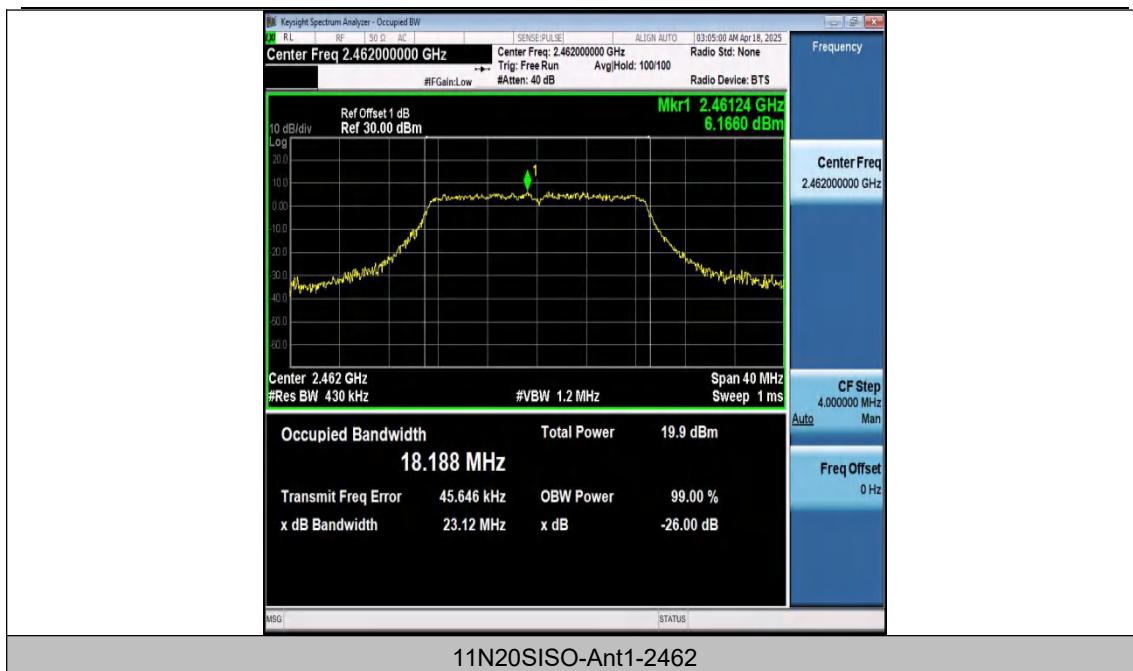
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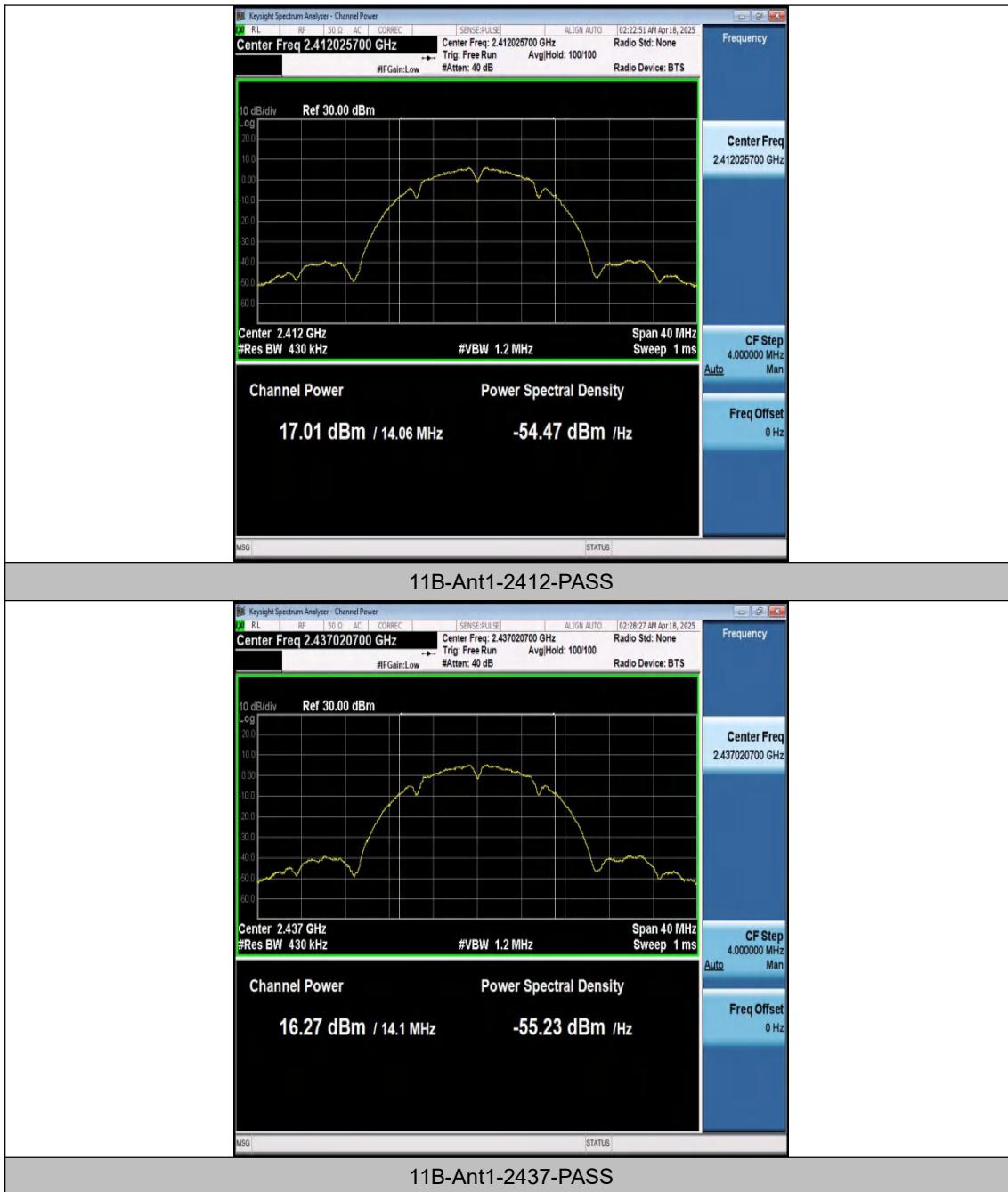
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.01	100.00	0.00	17.01	≤ 30.0 0	PASS
11B	Ant1	2437	16.27	100.00	0.00	16.27	≤ 30.0 0	PASS
11B	Ant1	2462	16.54	100.00	0.00	16.54	≤ 30.0 0	PASS
11G	Ant1	2412	12.33	100.00	0.00	12.33	≤ 30.0 0	PASS
11G	Ant1	2437	13.64	100.00	0.00	13.64	≤ 30.0 0	PASS
11G	Ant1	2462	13.98	100.00	0.00	13.98	≤ 30.0 0	PASS
11N20SI SO	Ant1	2412	13.26	100.00	0.00	13.26	≤ 30.0 0	PASS
11N20SI SO	Ant1	2437	13.55	100.00	0.00	13.55	≤ 30.0 0	PASS
11N20SI SO	Ant1	2462	13.90	100.00	0.00	13.90	≤ 30.0 0	PASS

Note: The Duty Cycle Factor($10 \times \log(1/D)$) and cable loss are compensated in the graph.

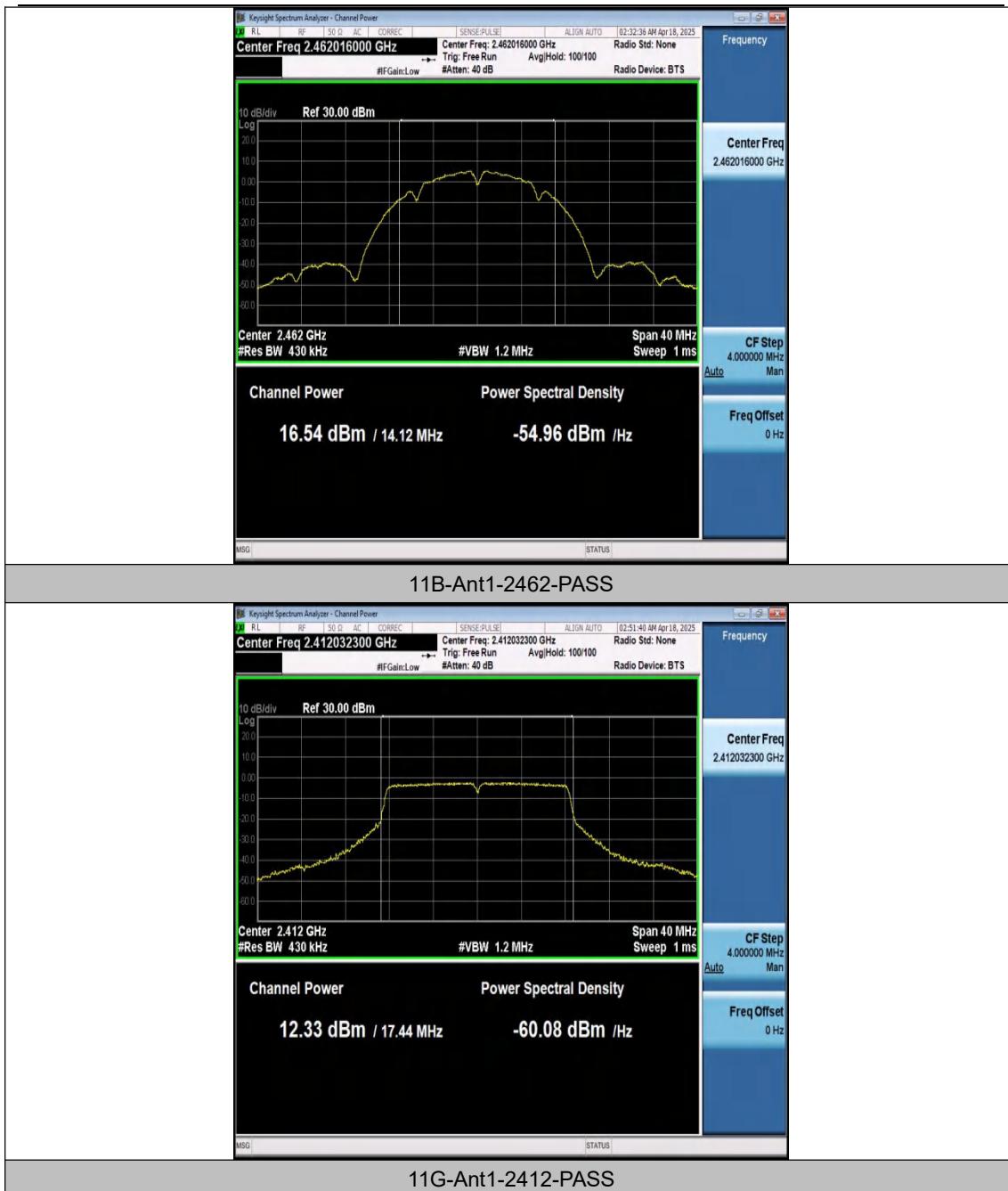
Test Graphs Average



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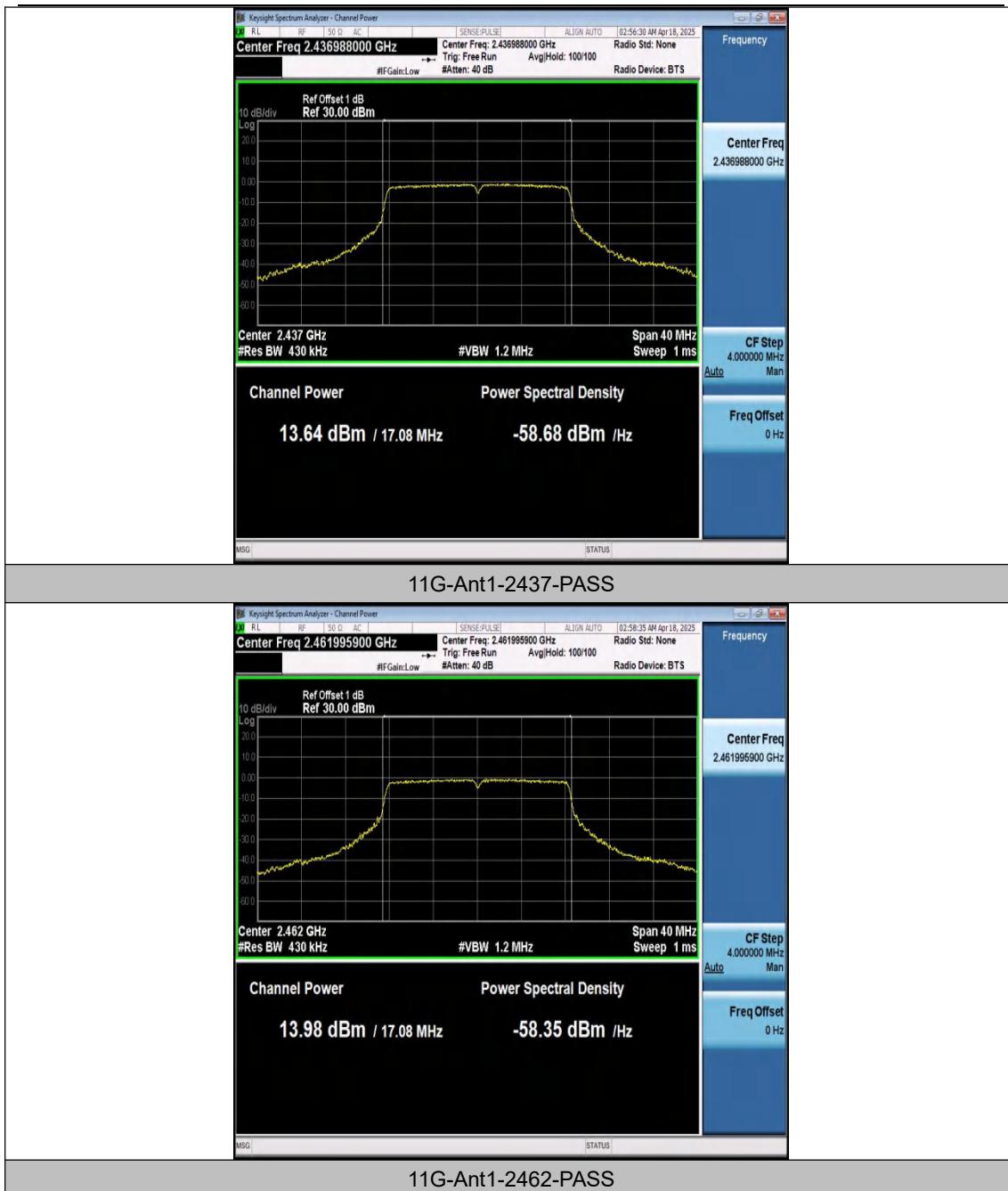
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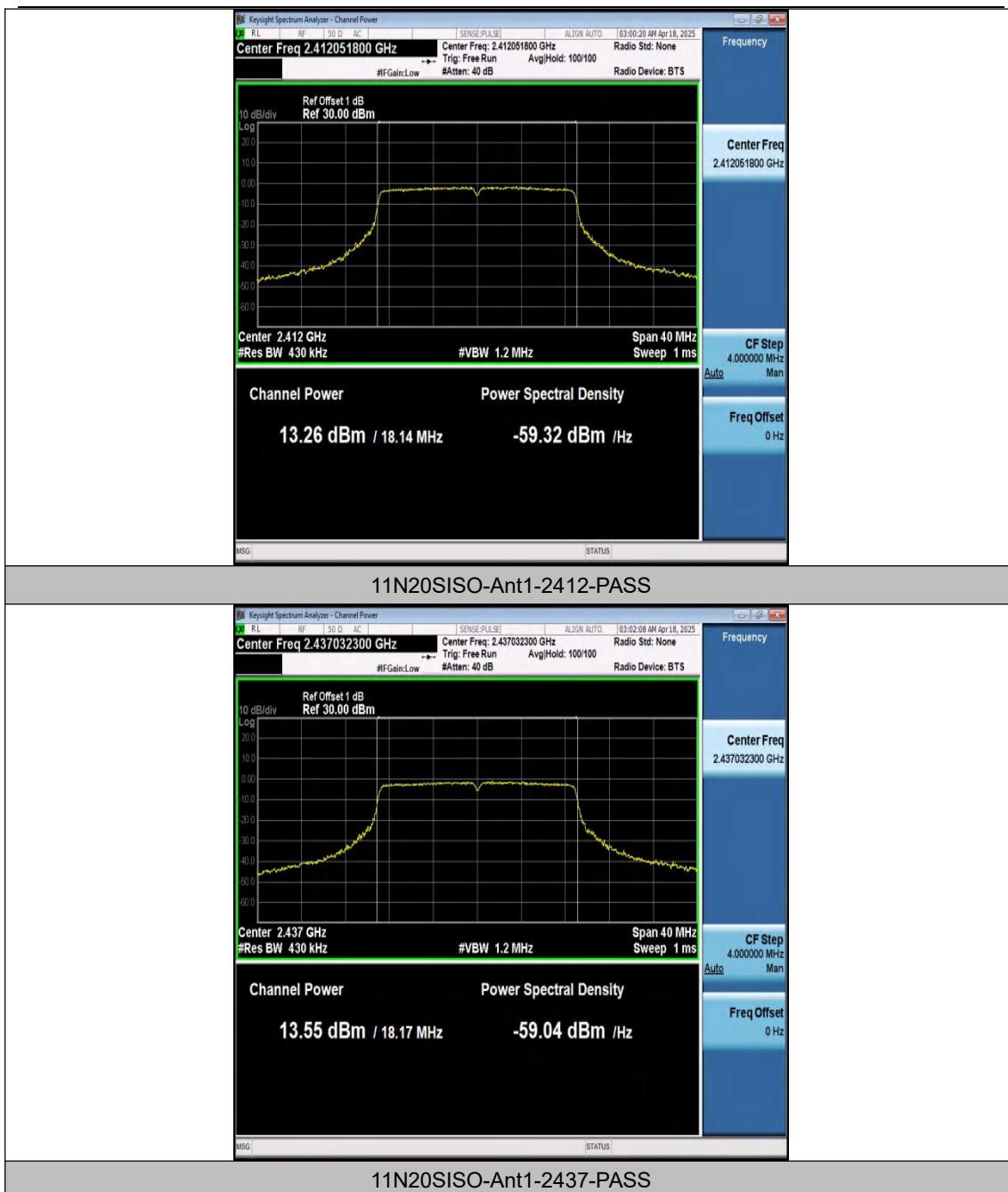
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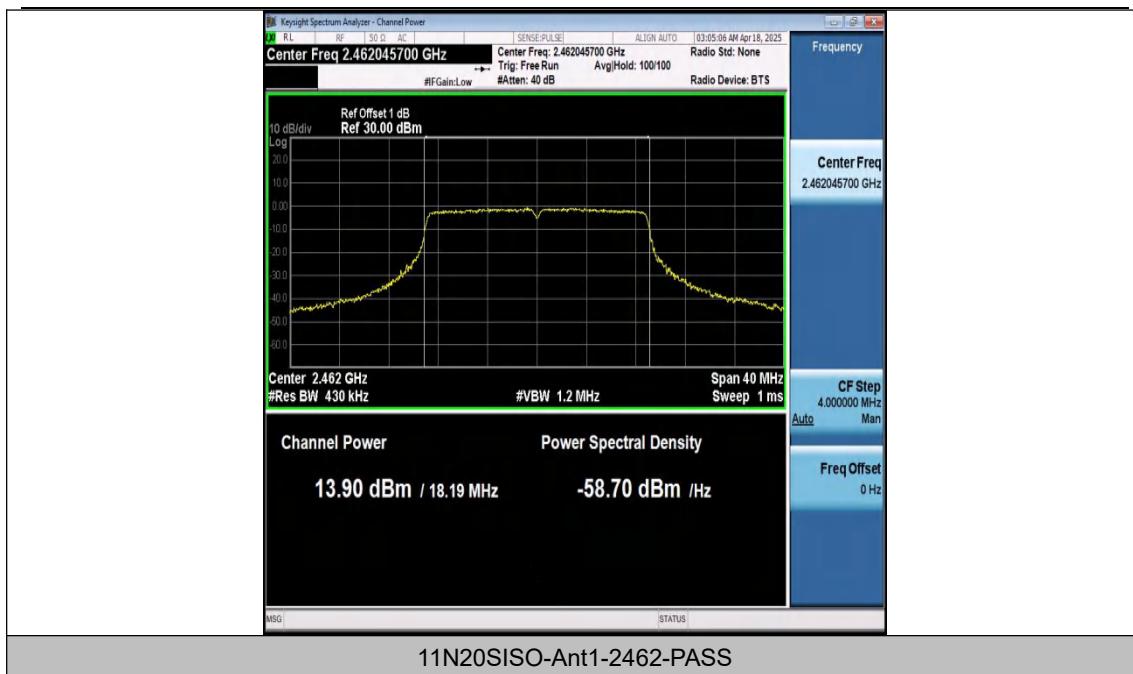
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Appendix D: Maximum power spectral density

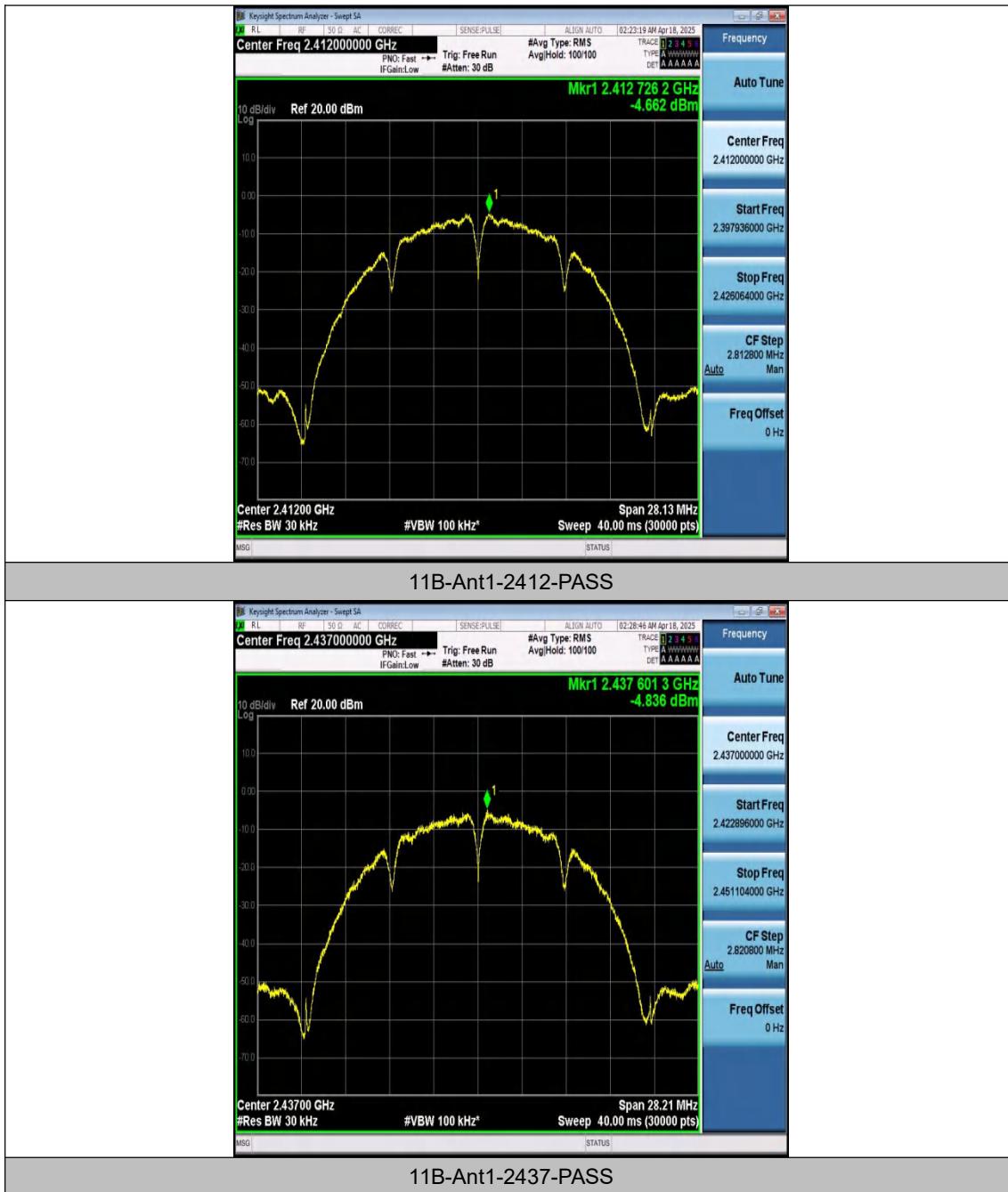
Test Result

Test Mode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.66	-14.66	≤8.00	PASS
11B	Ant1	2437	-4.84	-14.84	≤8.00	PASS
11B	Ant1	2462	-5.24	-15.24	≤8.00	PASS
11G	Ant1	2412	-11.75	-21.75	≤8.00	PASS
11G	Ant1	2437	-10.75	-20.75	≤8.00	PASS
11G	Ant1	2462	-9.89	-19.89	≤8.00	PASS
11N20SISO	Ant1	2412	-10.79	-20.79	≤8.00	PASS
11N20SISO	Ant1	2437	-10.68	-20.68	≤8.00	PASS
11N20SISO	Ant1	2462	-10.45	-20.45	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $\text{PSD(dBm/3kHz)} = \text{PSD(dBm/30kHz)} - (10 \cdot \log(30/3))$

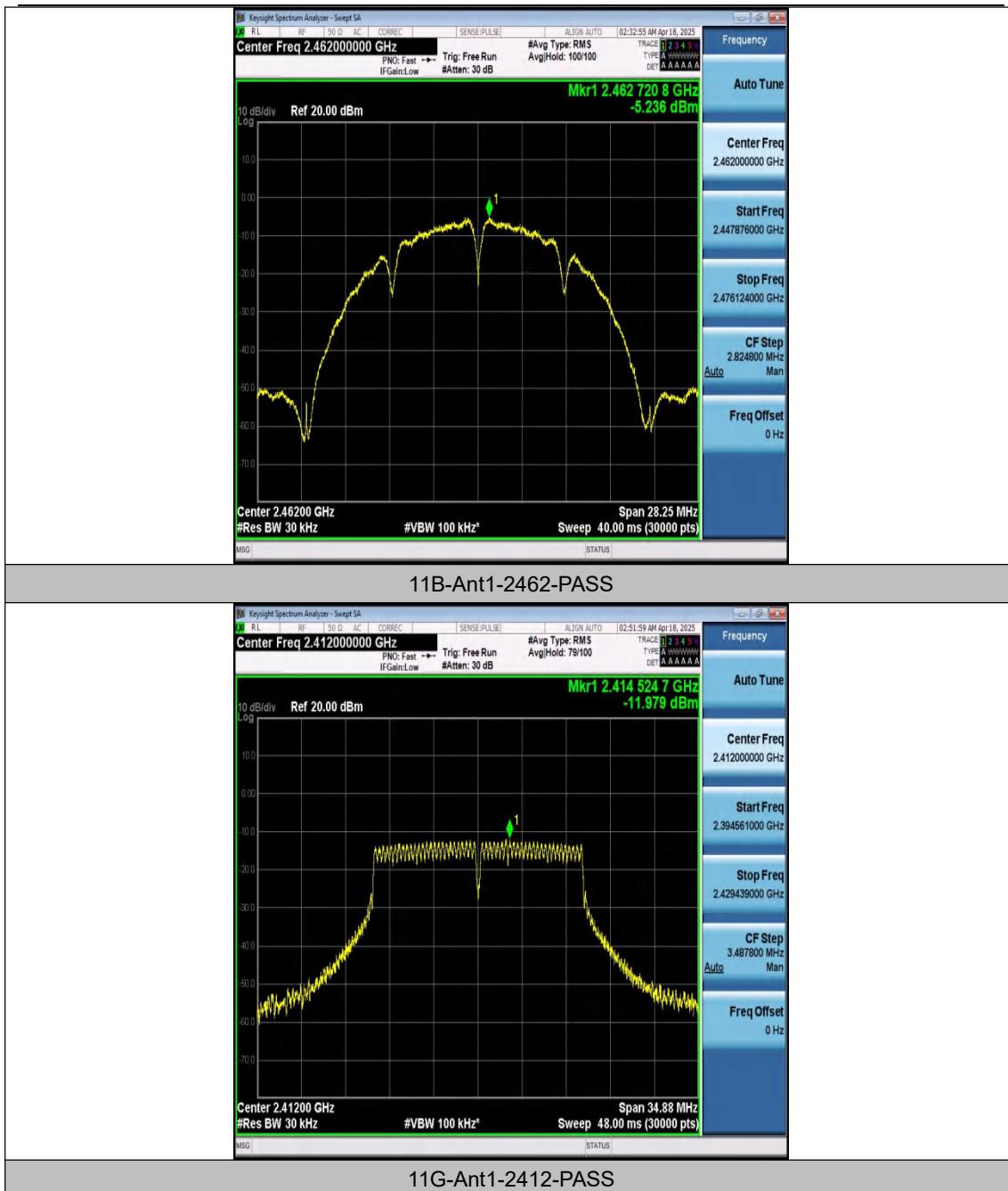
Test Graphs



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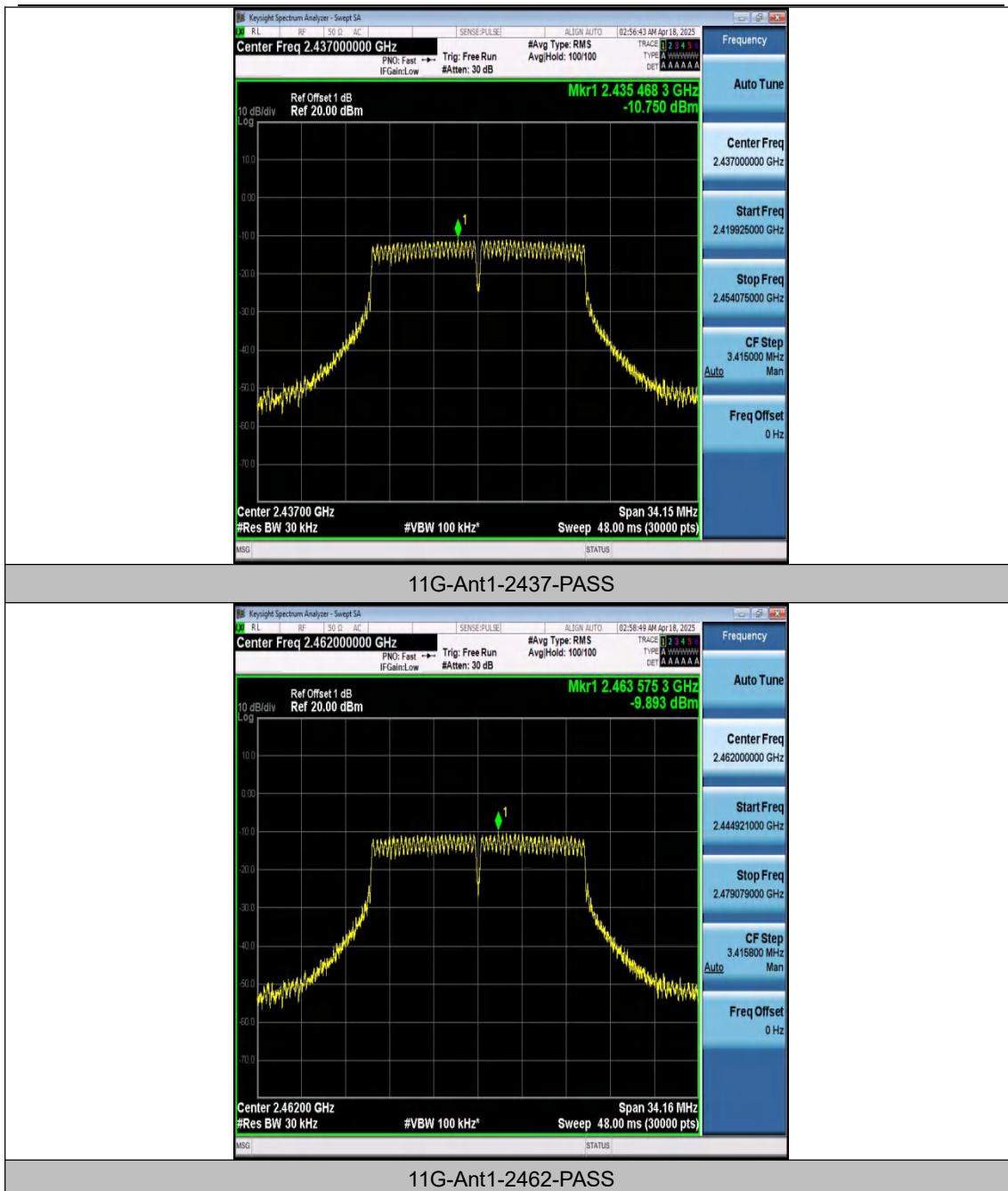
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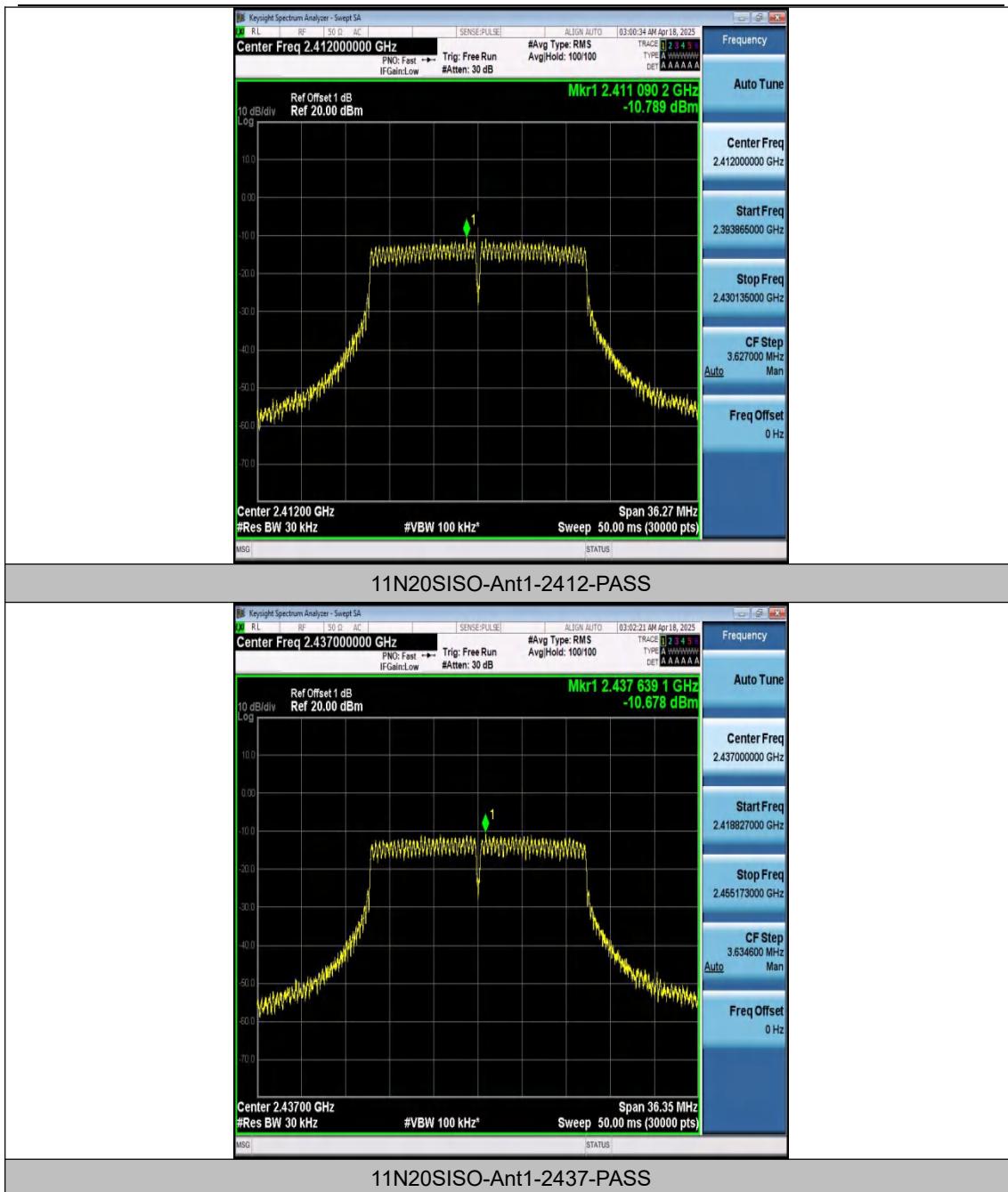
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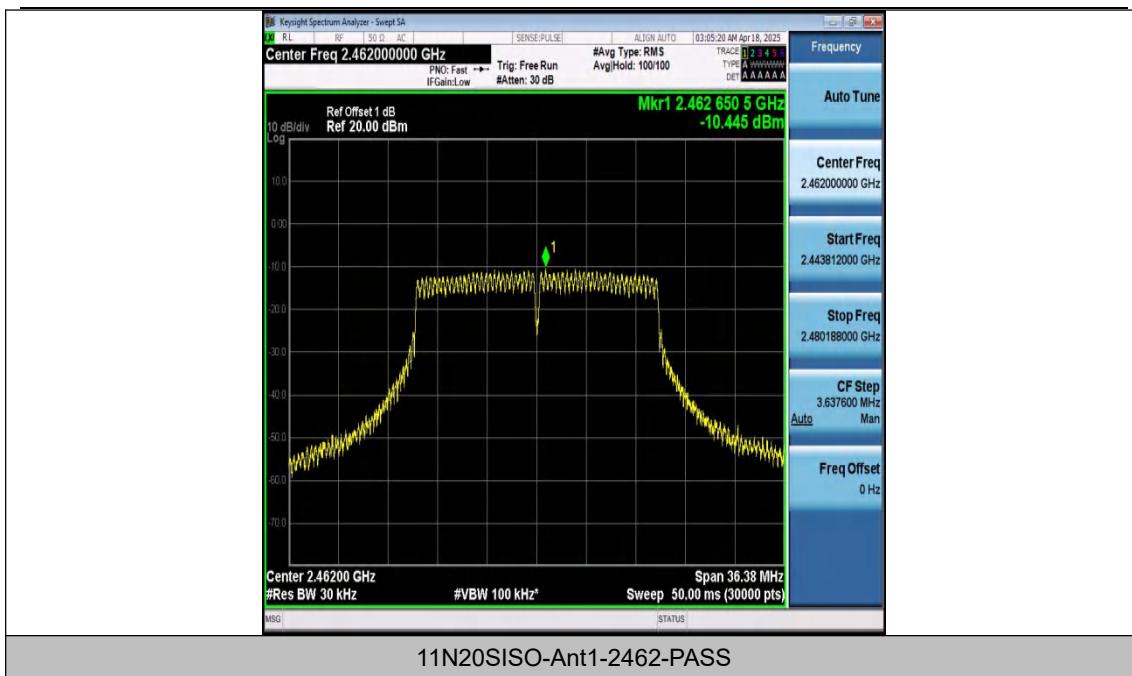
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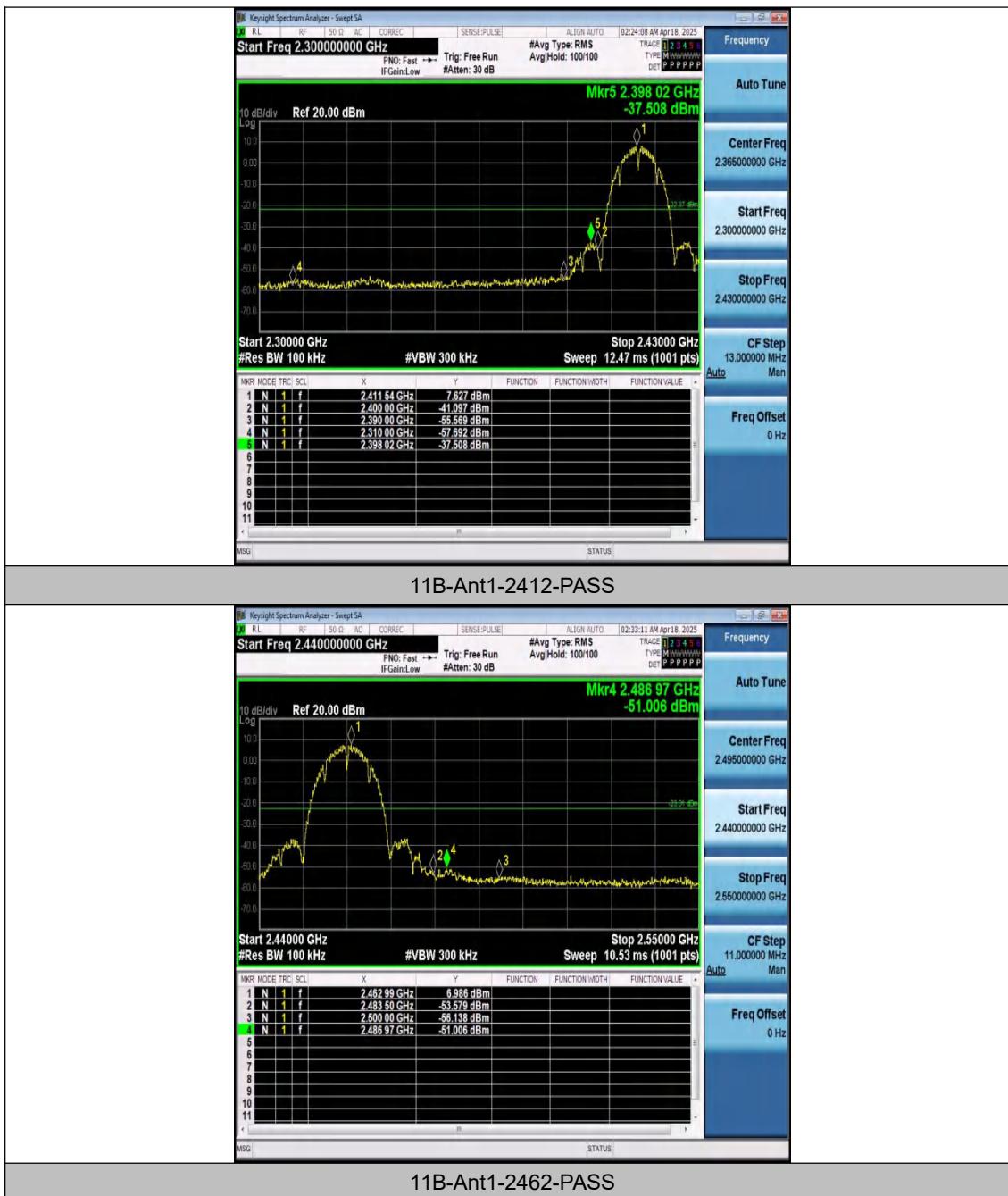
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Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.63	-37.51	≤-22.37	PASS
11B	Ant1	High	2462	6.99	-51.01	≤-23.01	PASS
11G	Ant1	Low	2412	-1.88	-32.09	≤-31.88	PASS
11G	Ant1	High	2462	-0.17	-44.59	≤-30.17	PASS
11N20SISO	Ant1	Low	2412	-0.52	-31.45	≤-30.52	PASS
11N20SISO	Ant1	High	2462	0.27	-42.57	≤-29.73	PASS

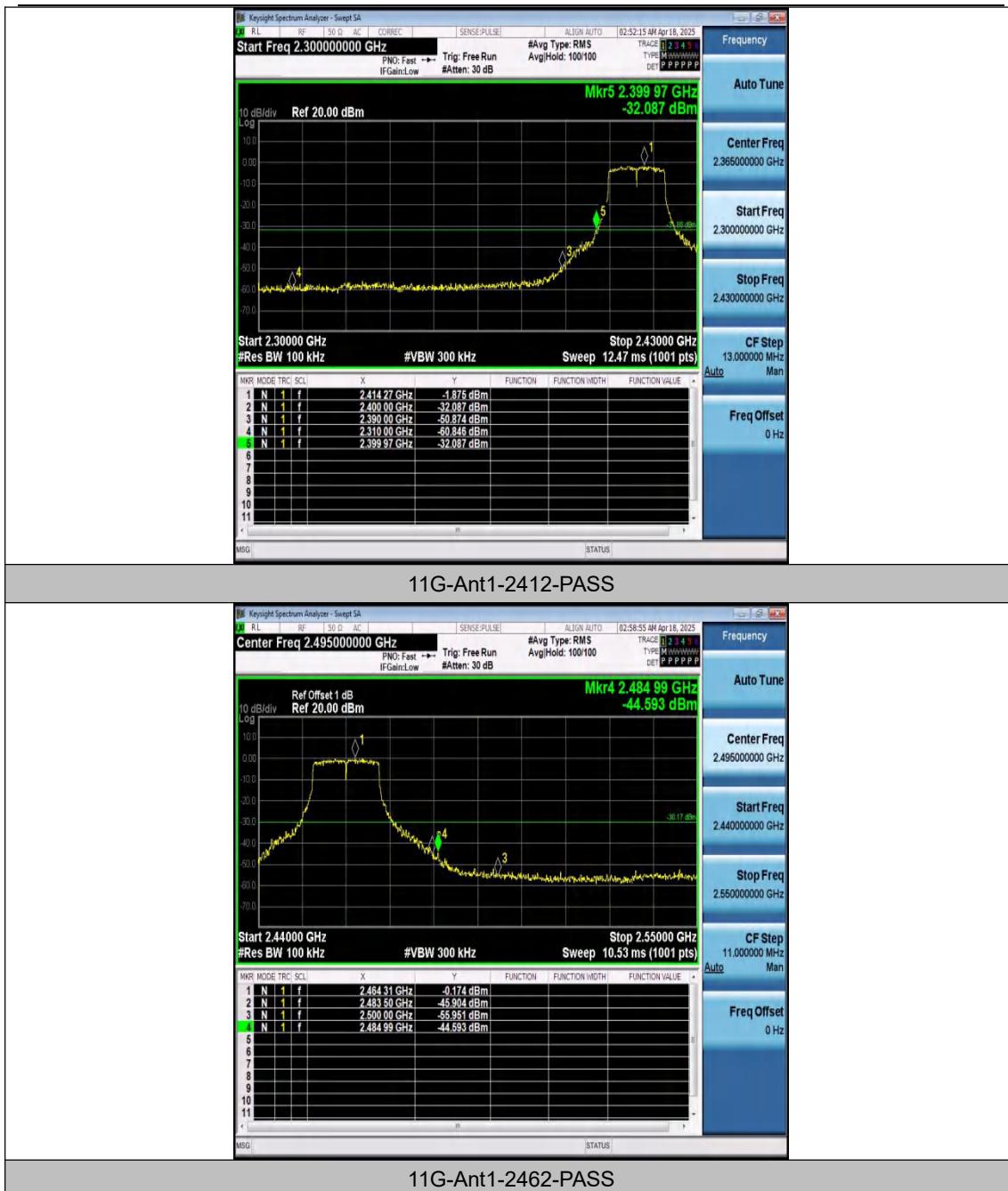
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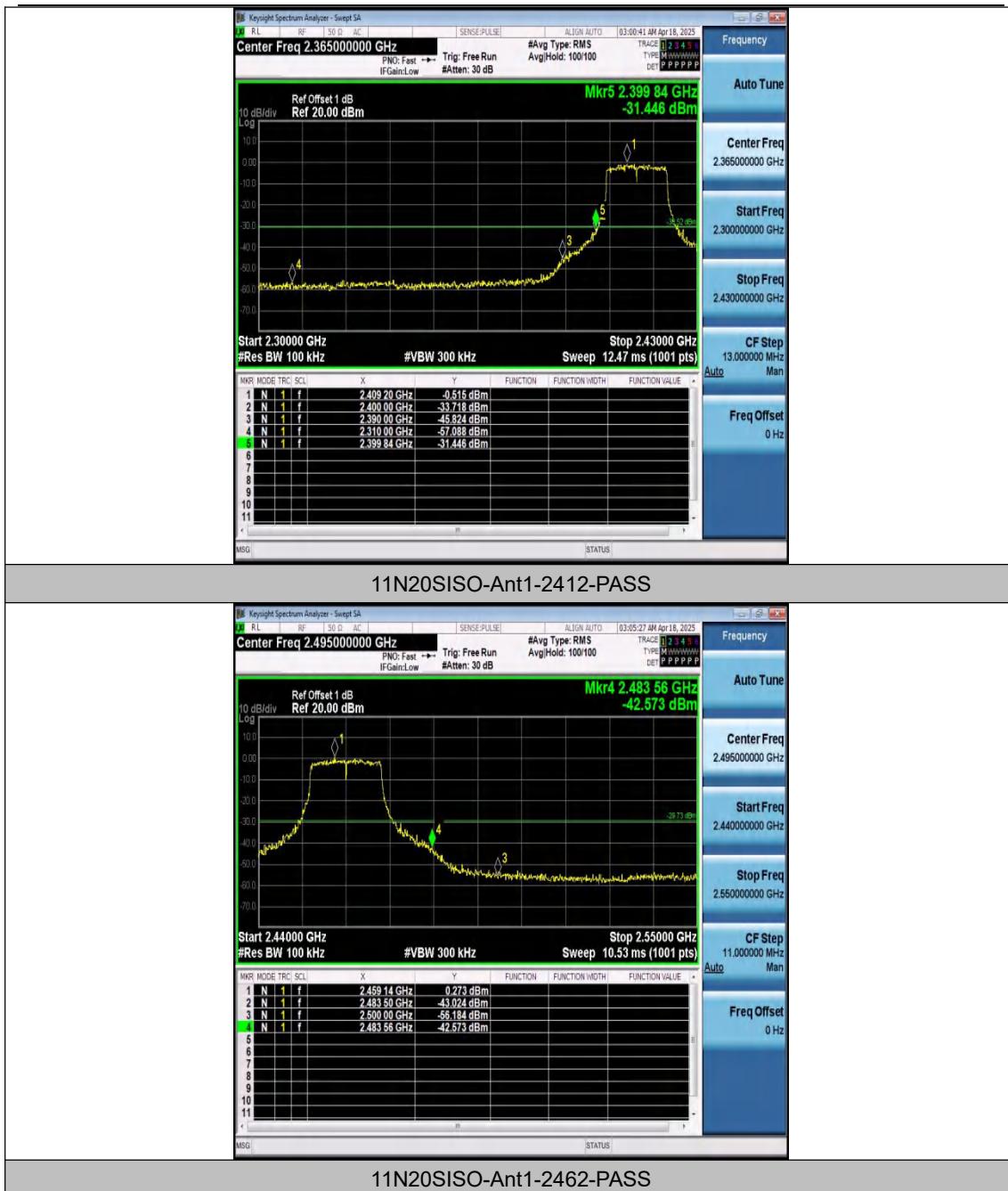


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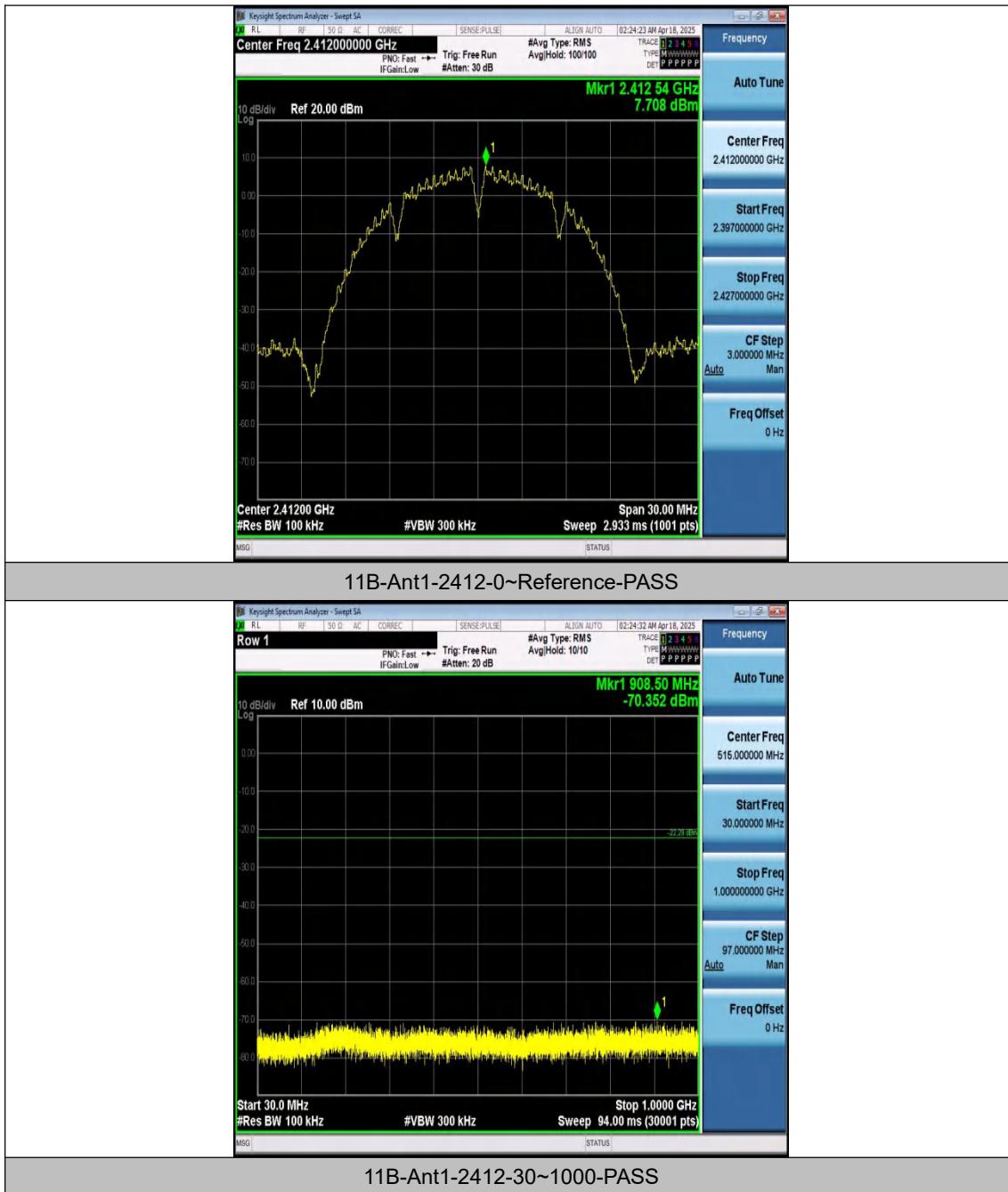
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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	7.71	7.71	---	PASS
11B	Ant1	2412	30~1000	7.71	-70.35	≤-22.29	PASS
11B	Ant1	2412	1000~26500	7.71	-33.77	≤-22.29	PASS
11B	Ant1	2437	0~Reference	6.87	6.87	---	PASS
11B	Ant1	2437	30~1000	6.87	-70.36	≤-23.13	PASS
11B	Ant1	2437	1000~26500	6.87	-34.67	≤-23.13	PASS
11B	Ant1	2462	0~Reference	7.18	7.18	---	PASS
11B	Ant1	2462	30~1000	7.18	-69.62	≤-22.82	PASS
11B	Ant1	2462	1000~26500	7.18	-35.89	≤-22.82	PASS
11G	Ant1	2412	0~Reference	-1.79	-1.79	---	PASS
11G	Ant1	2412	30~1000	-1.79	-68.95	≤-31.79	PASS
11G	Ant1	2412	1000~26500	-1.79	-49.83	≤-31.79	PASS
11G	Ant1	2437	0~Reference	-0.79	-0.79	---	PASS
11G	Ant1	2437	30~1000	-0.79	-68.7	≤-30.79	PASS
11G	Ant1	2437	1000~26500	-0.79	-48.18	≤-30.79	PASS
11G	Ant1	2462	0~Reference	-0.27	-0.27	---	PASS
11G	Ant1	2462	30~1000	-0.27	-67.64	≤-30.27	PASS
11G	Ant1	2462	1000~26500	-0.27	-49.6	≤-30.27	PASS
11N20SISO	Ant1	2412	0~Reference	-0.54	-0.54	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.54	-67.93	≤-30.54	PASS
11N20SISO	Ant1	2412	1000~26500	-0.54	-48.95	≤-30.54	PASS
11N20SISO	Ant1	2437	0~Reference	-0.24	-0.24	---	PASS
11N20SISO	Ant1	2437	30~1000	-0.24	-67.98	≤-30.24	PASS
11N20SISO	Ant1	2437	1000~26500	-0.24	-48.23	≤-30.24	PASS
11N20SISO	Ant1	2462	0~Reference	0.08	0.08	---	PASS
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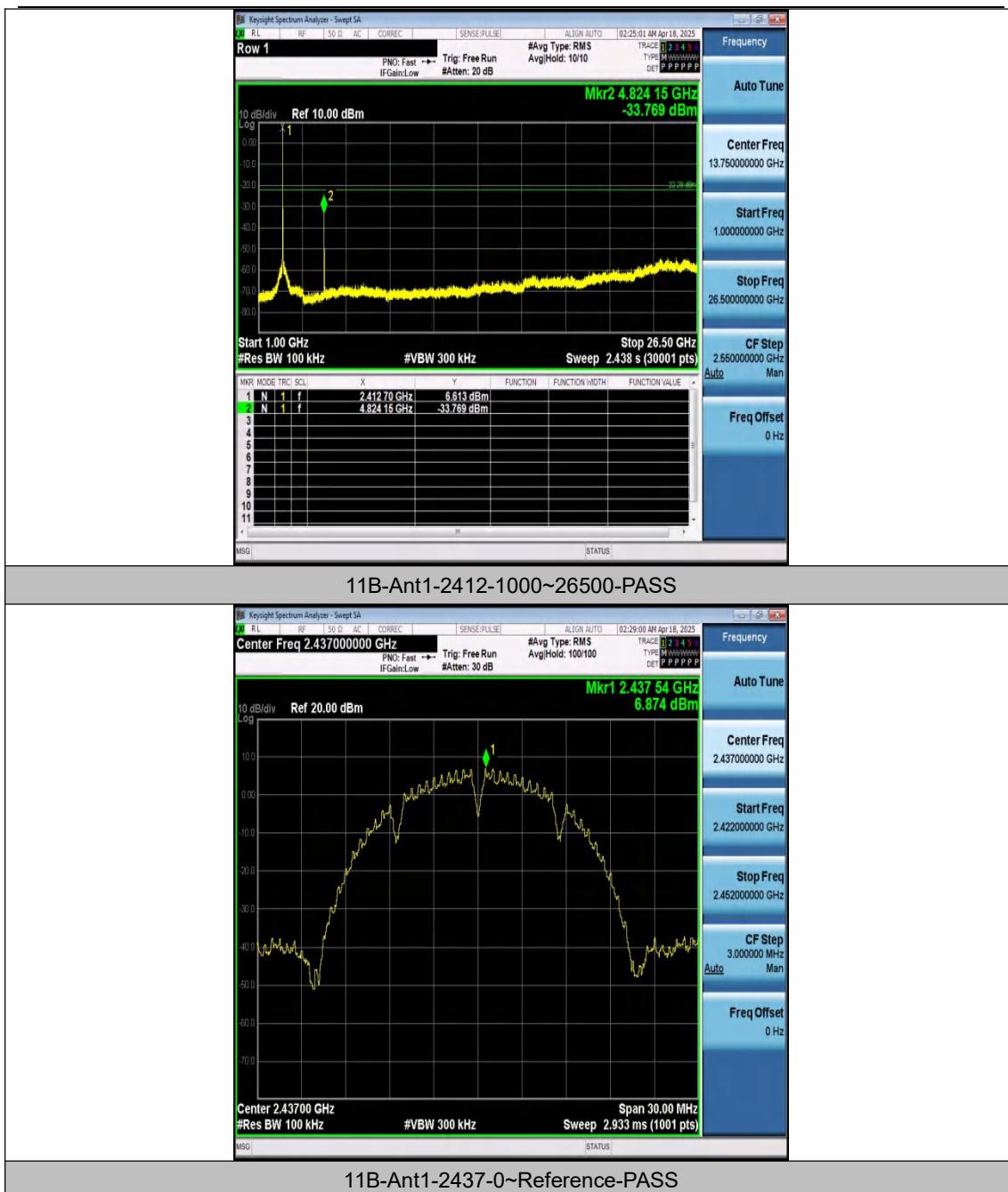
Test Graphs



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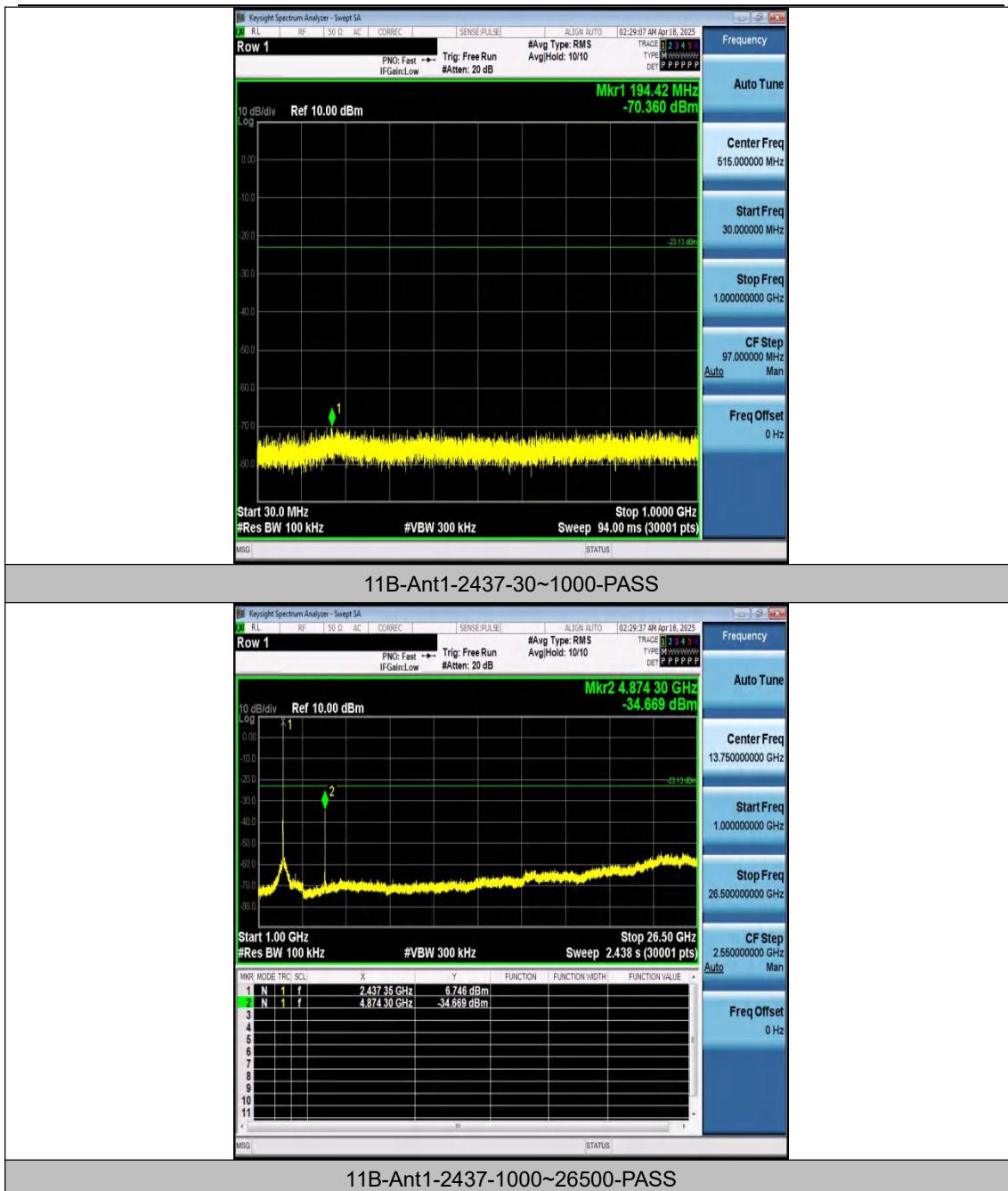
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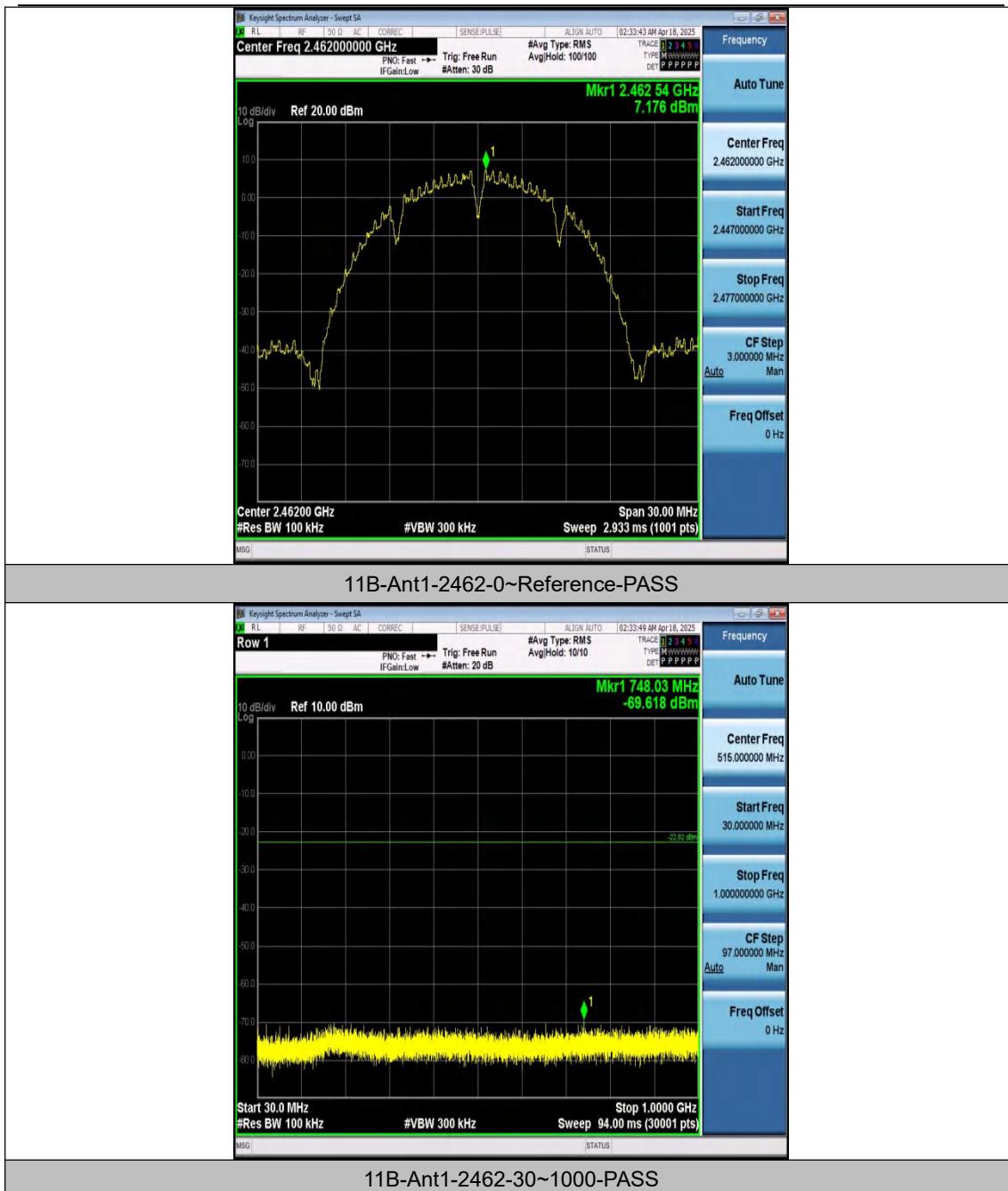
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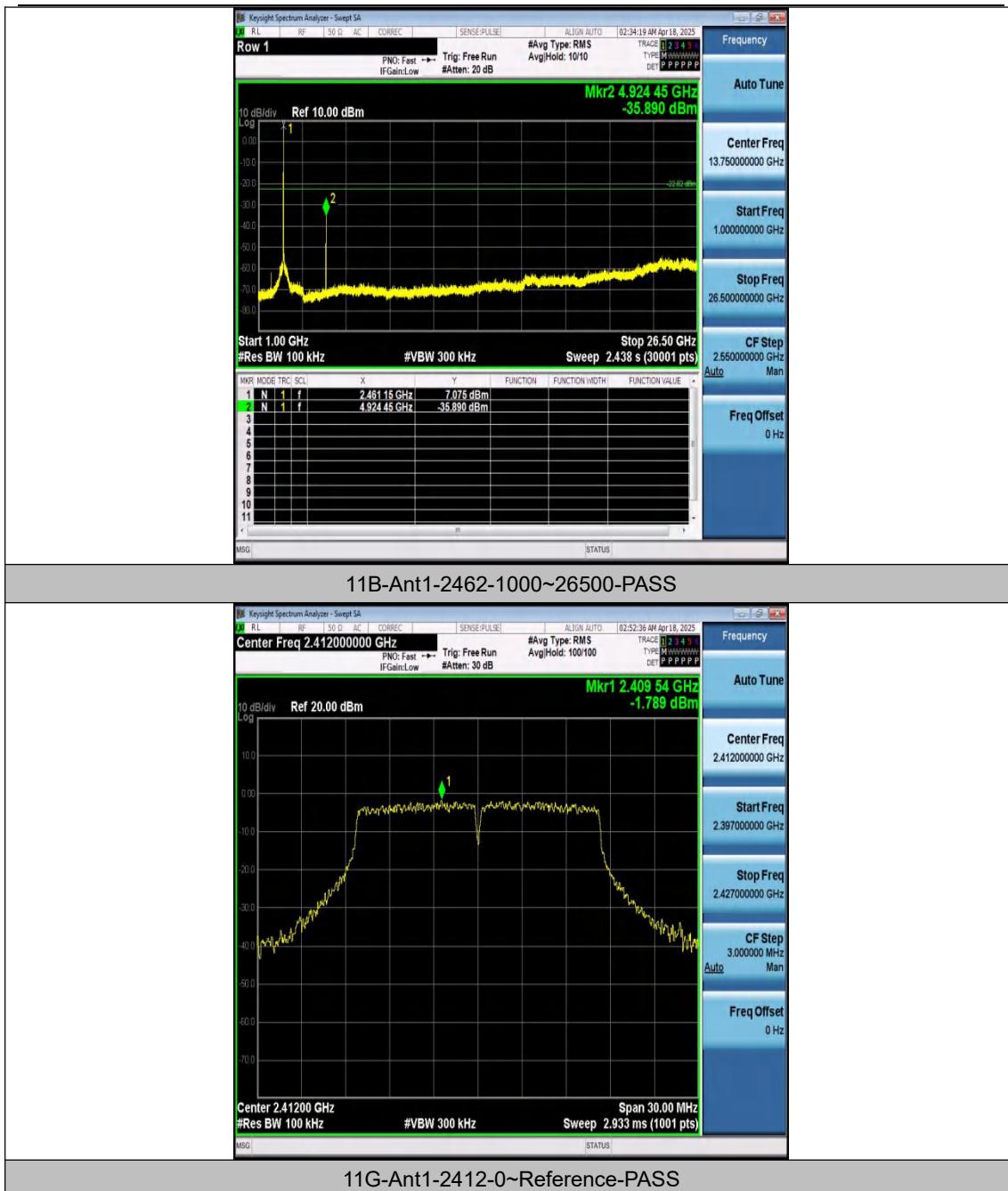


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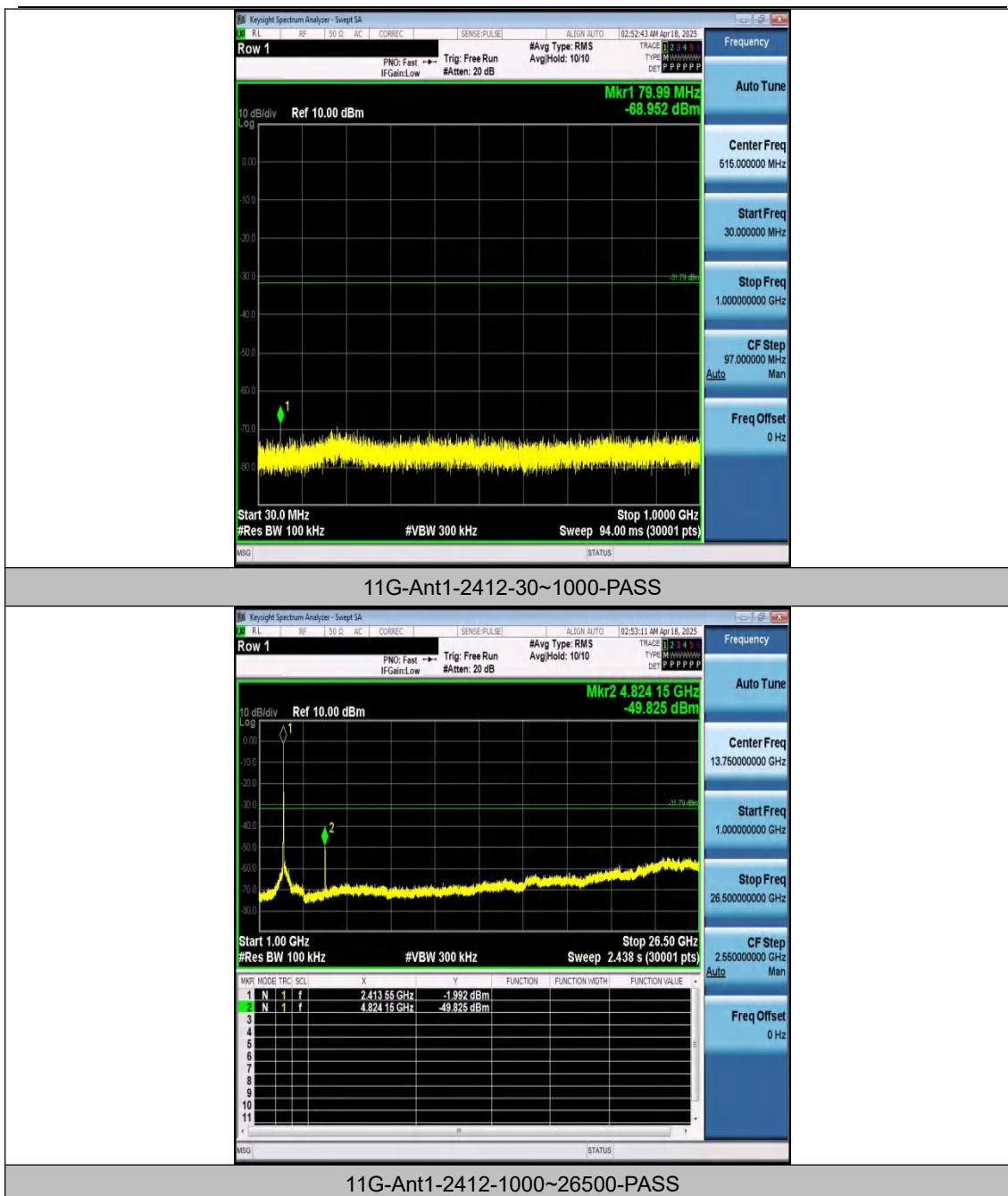




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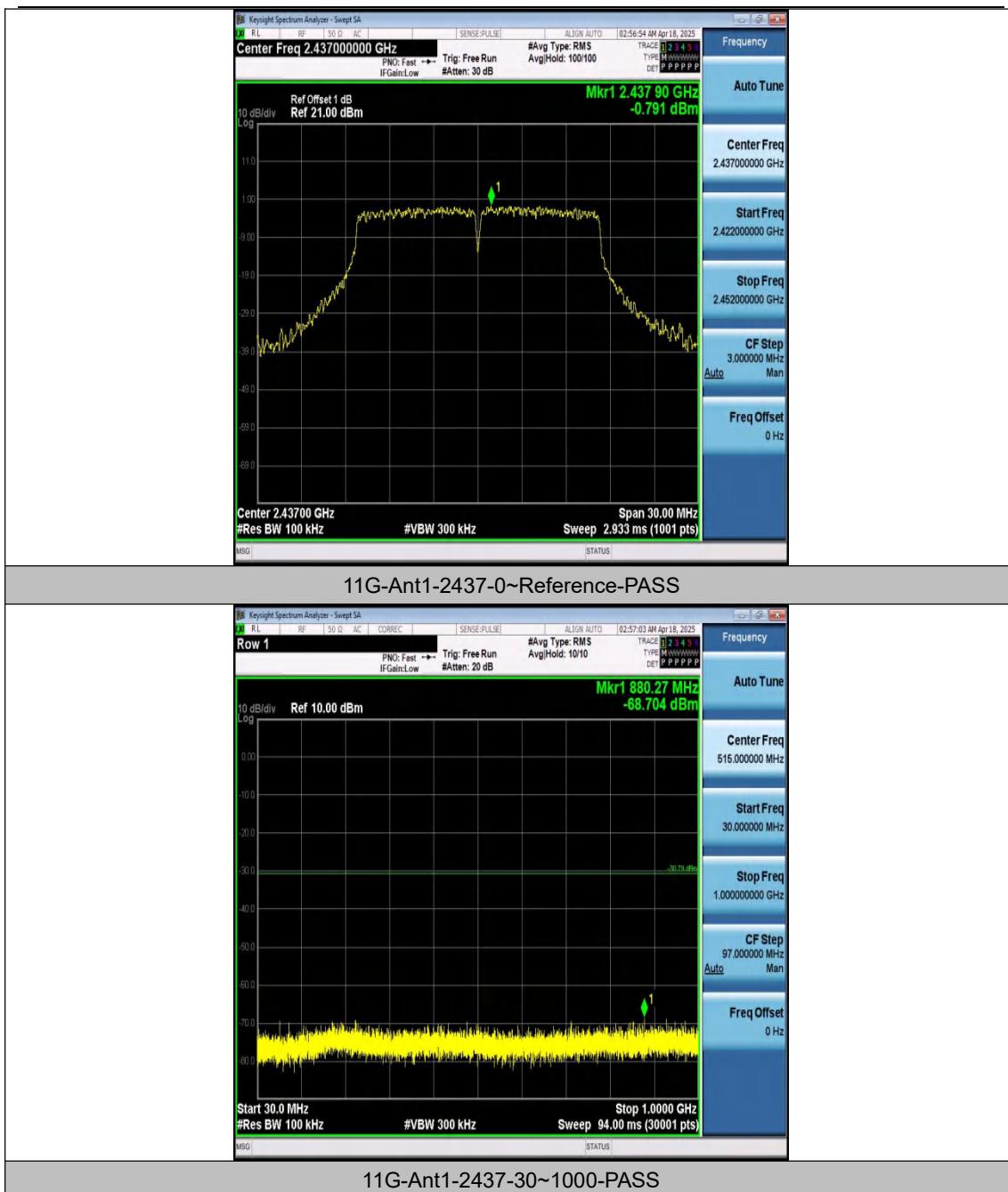
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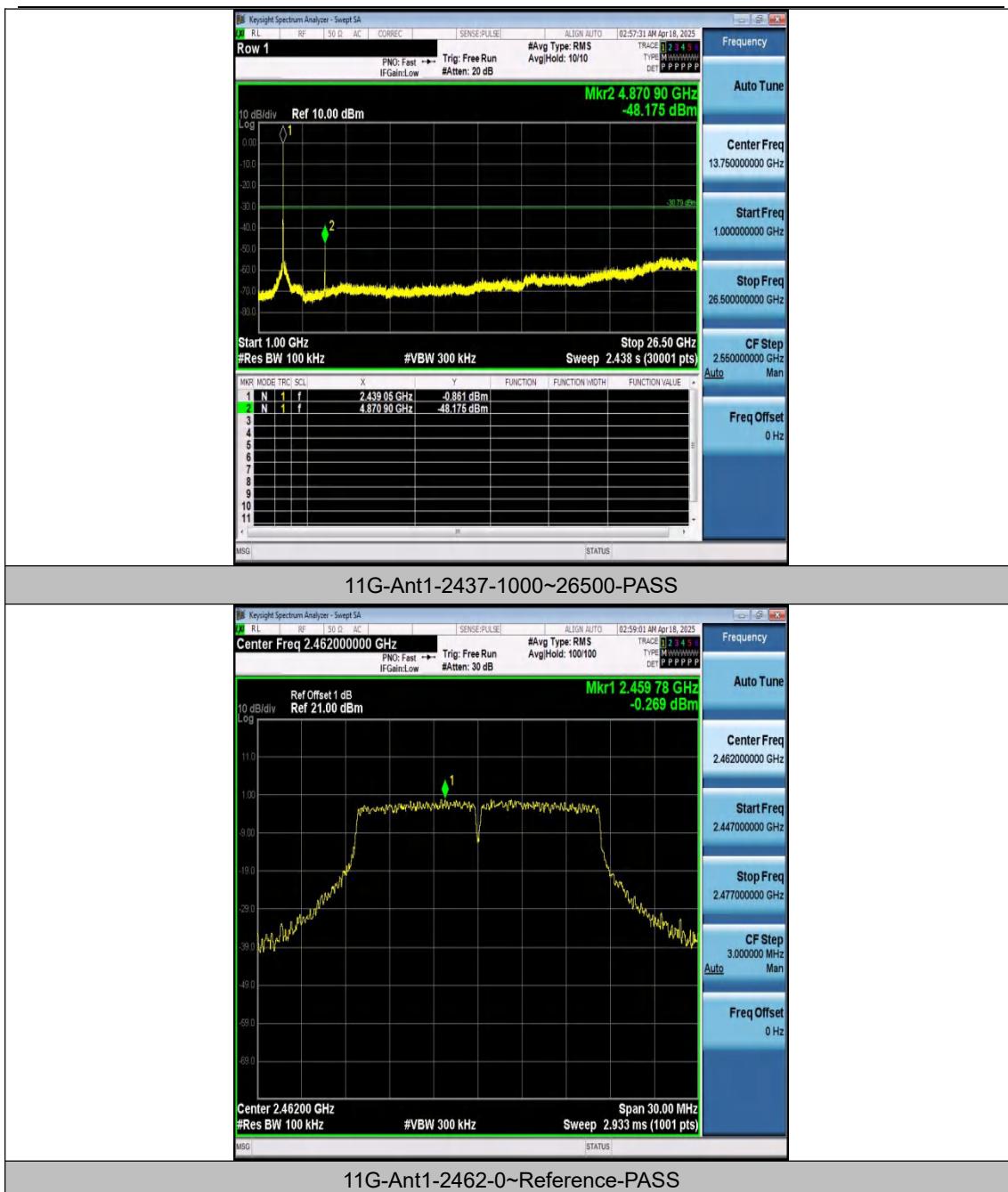
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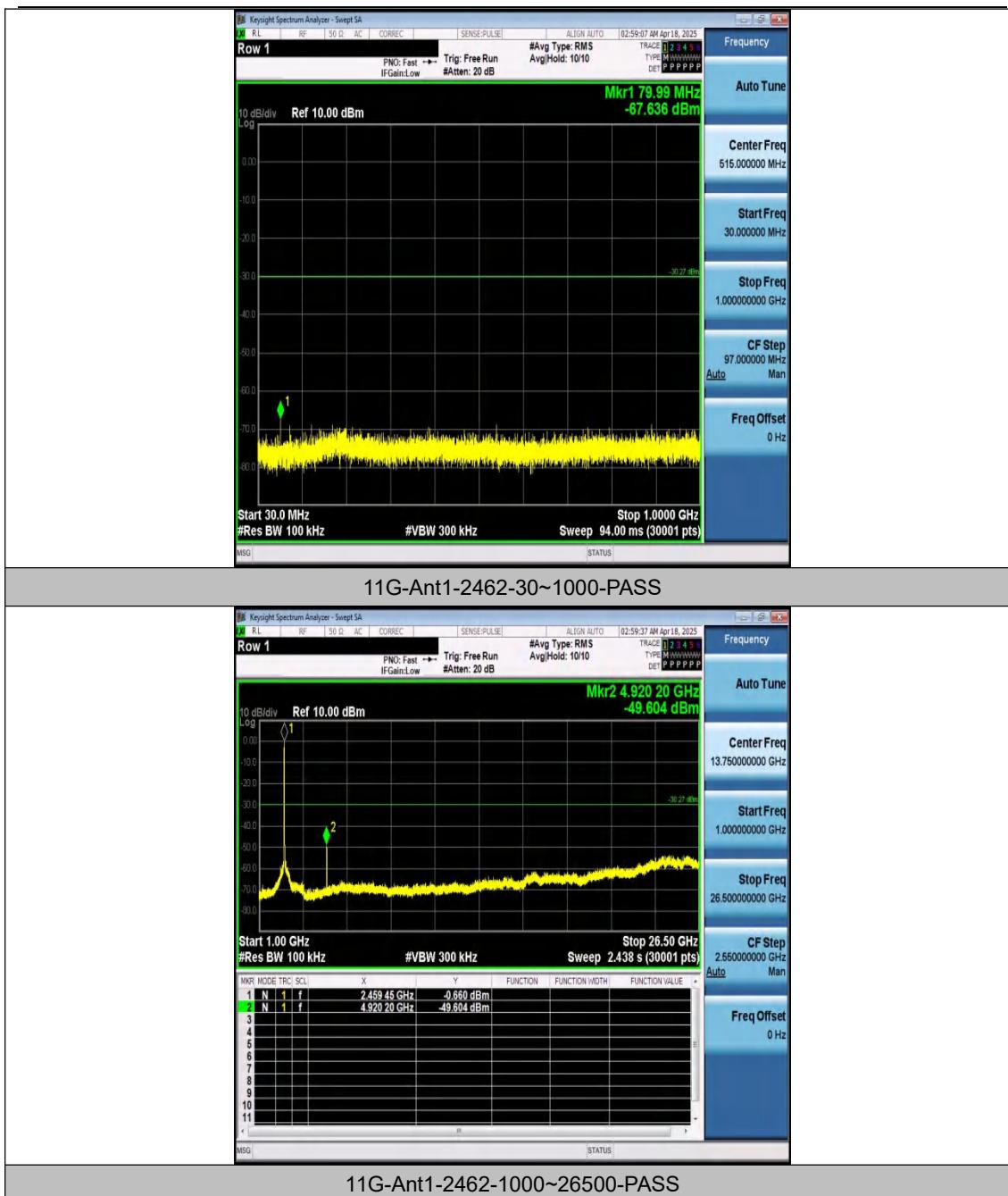
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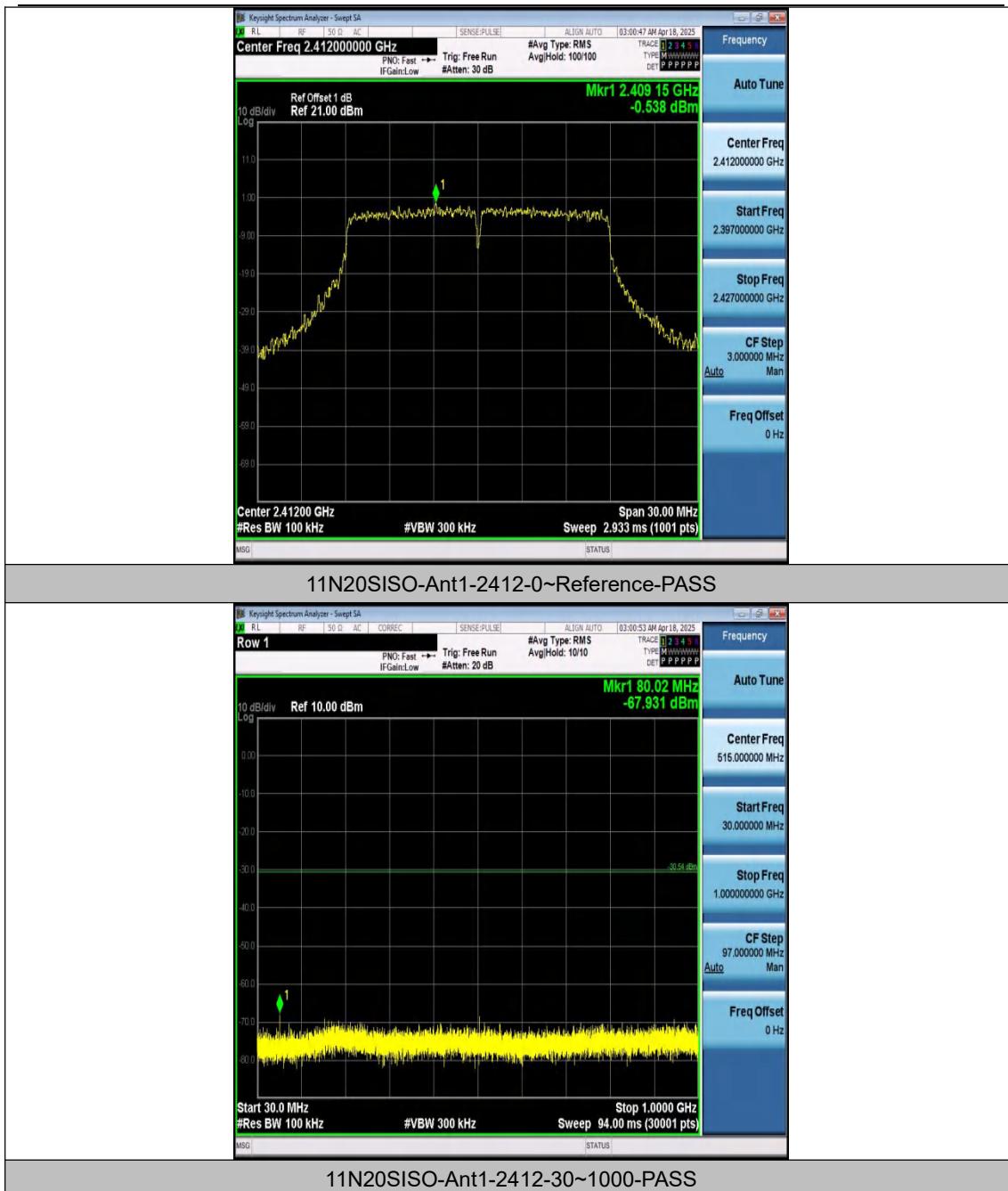
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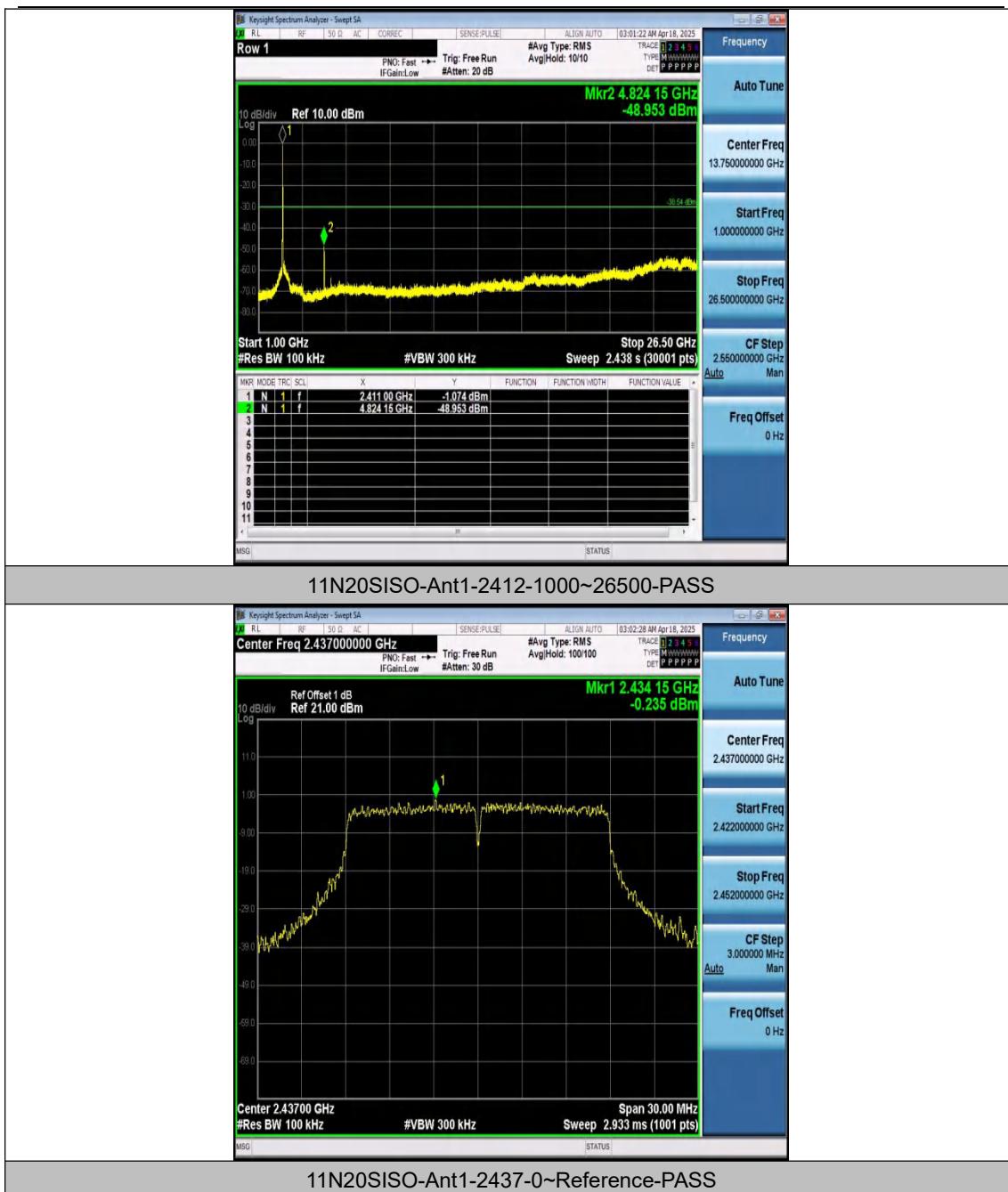
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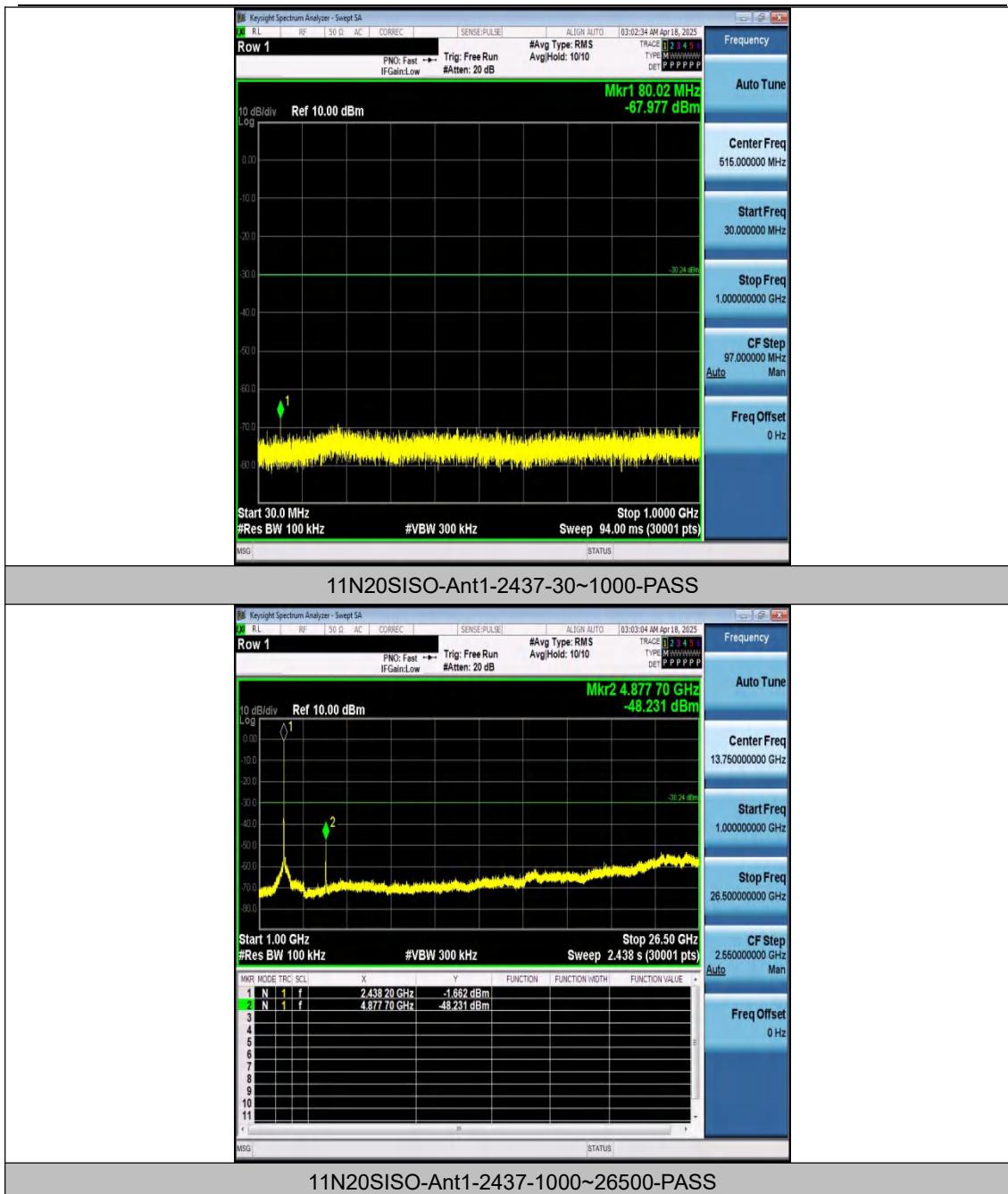
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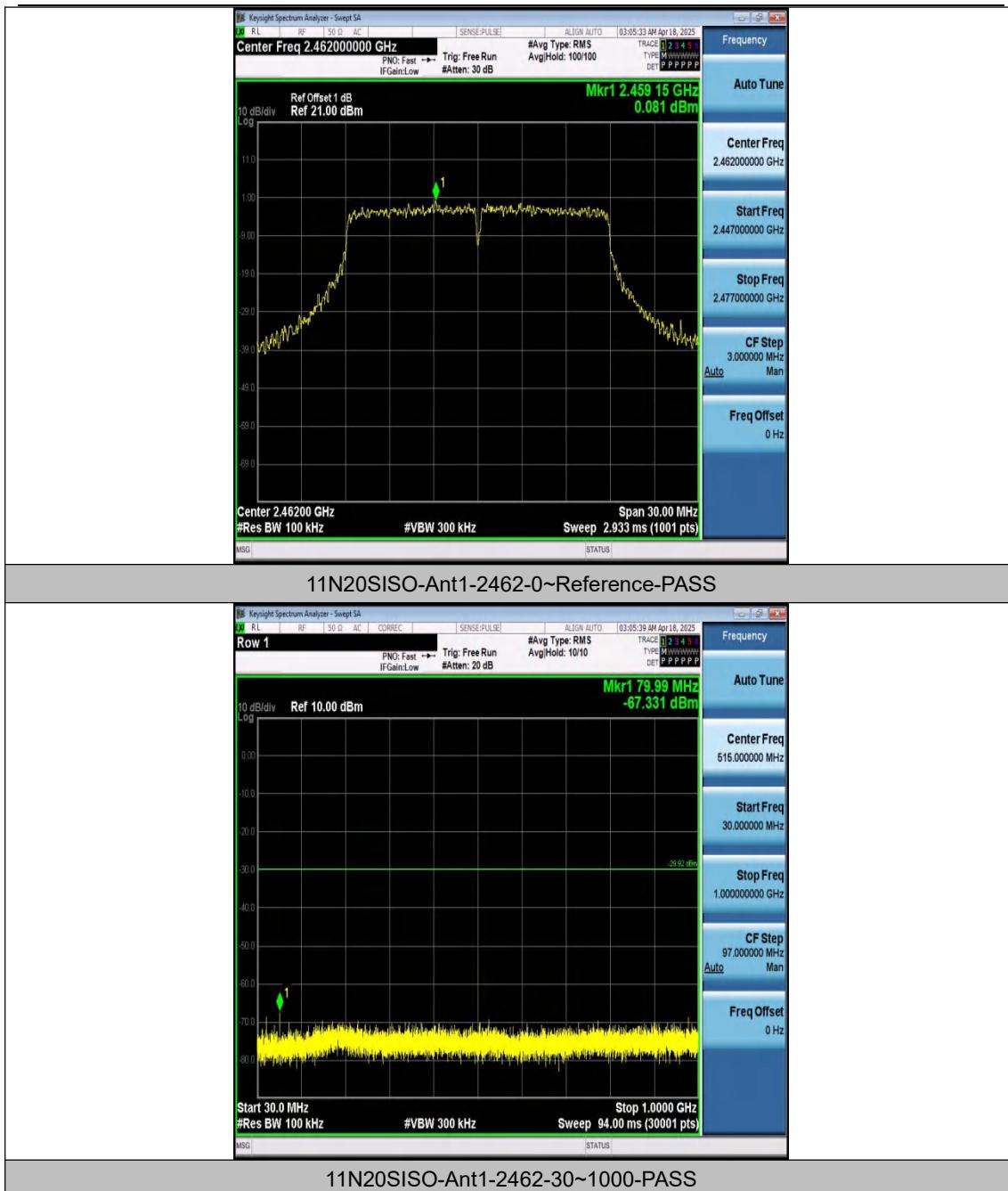
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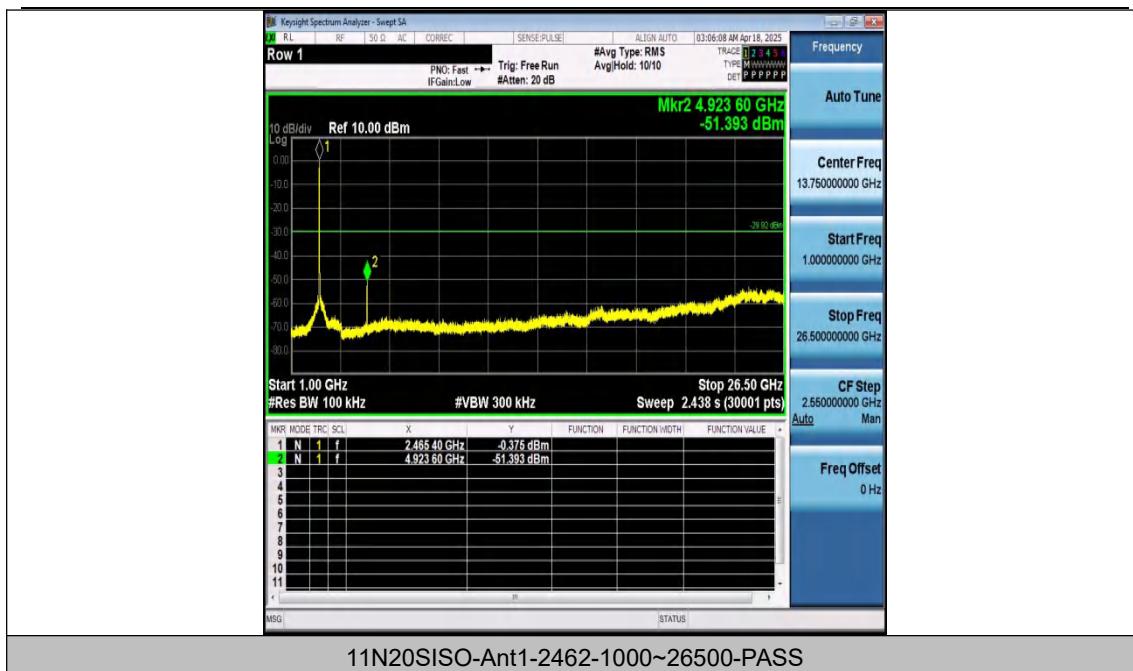
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Appendix G: Duty Cycle

Test Result

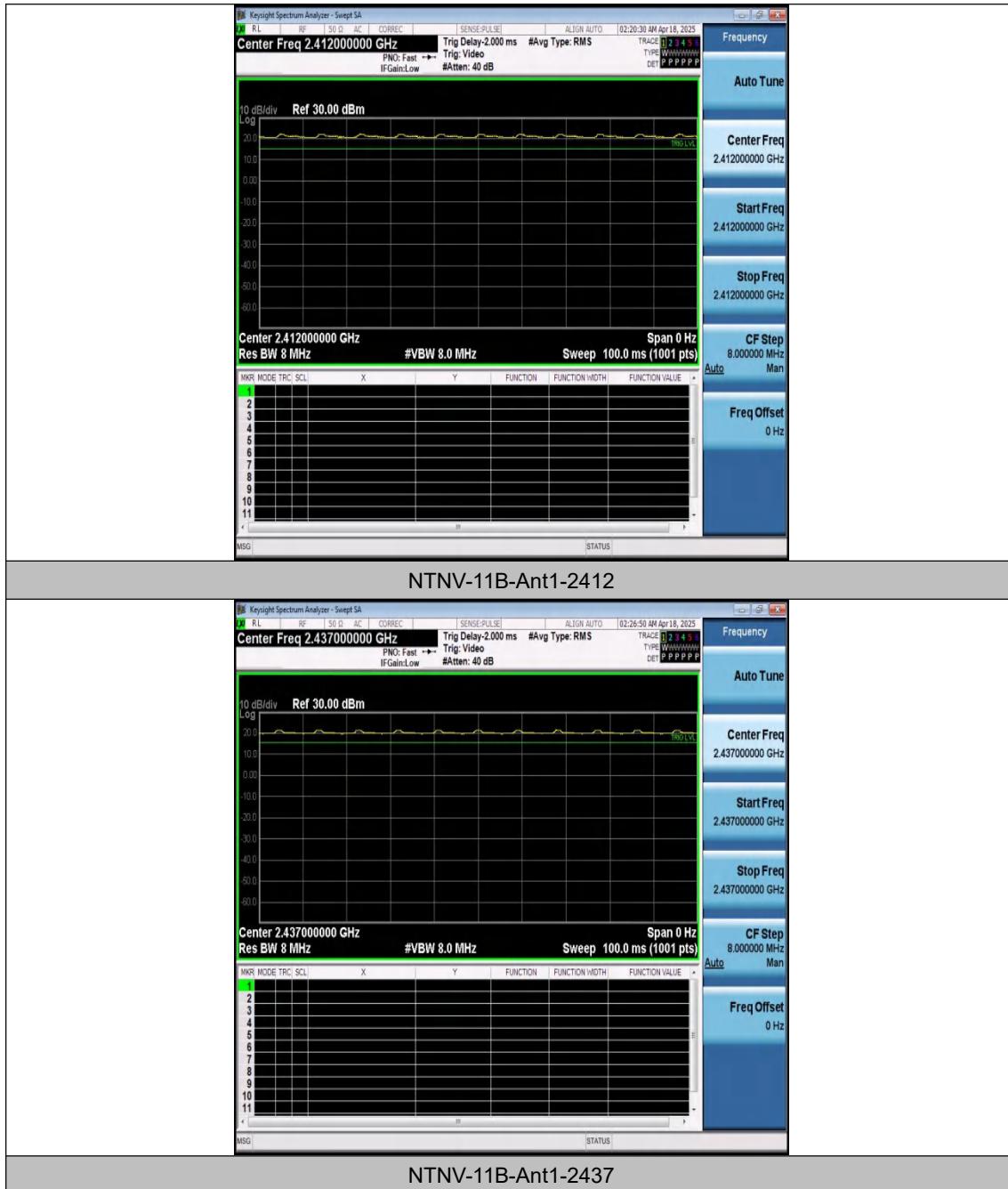
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	100.00	100.00	100.00	0.00
11B	Ant1	2437	100.00	100.00	100.00	0.00
11B	Ant1	2462	100.00	100.00	100.00	0.00
11G	Ant1	2412	100.00	100.00	100.00	0.00
11G	Ant1	2437	100.00	100.00	100.00	0.00
11G	Ant1	2462	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2412	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2437	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2462	100.00	100.00	100.00	0.00

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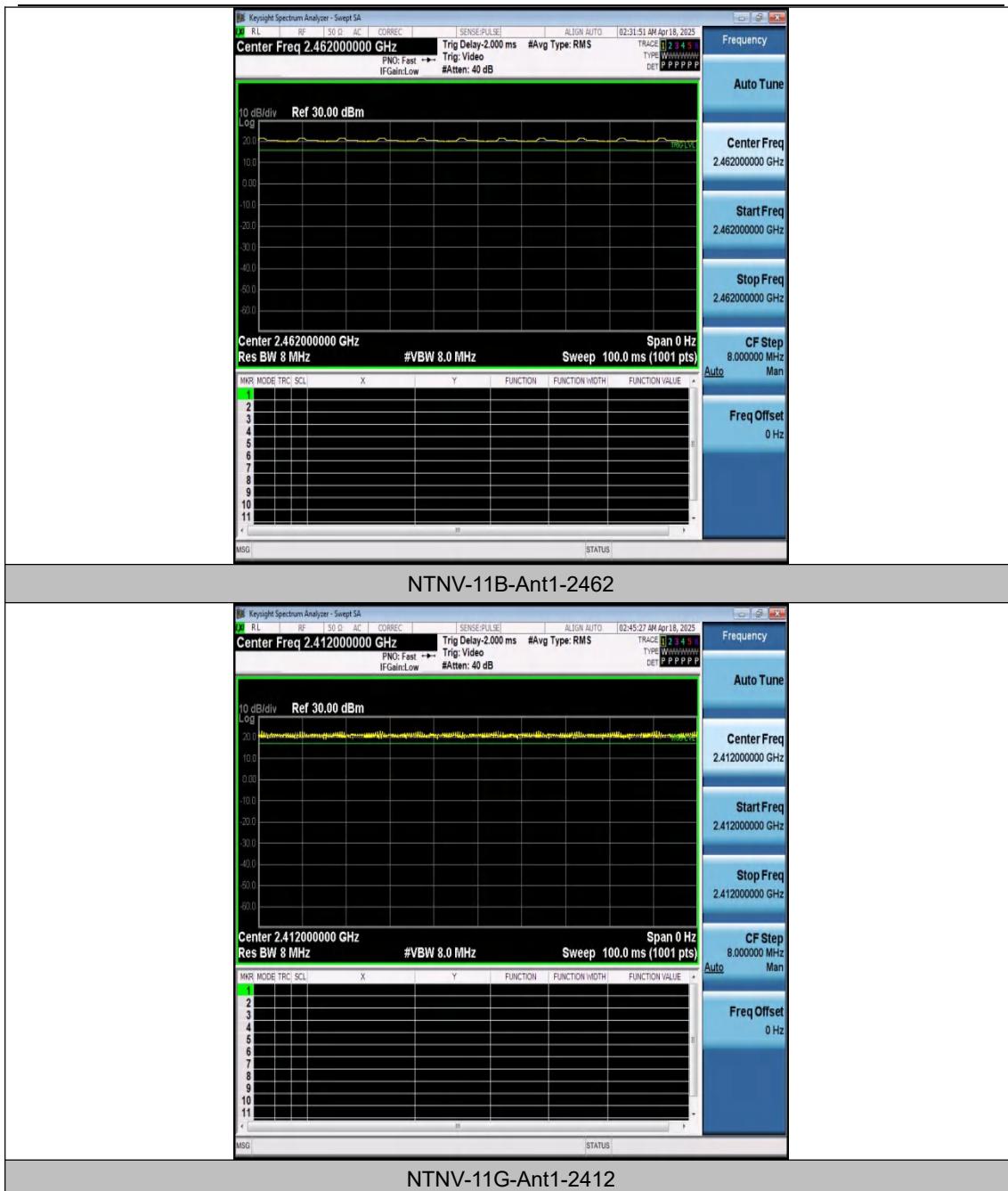
Test Graphs



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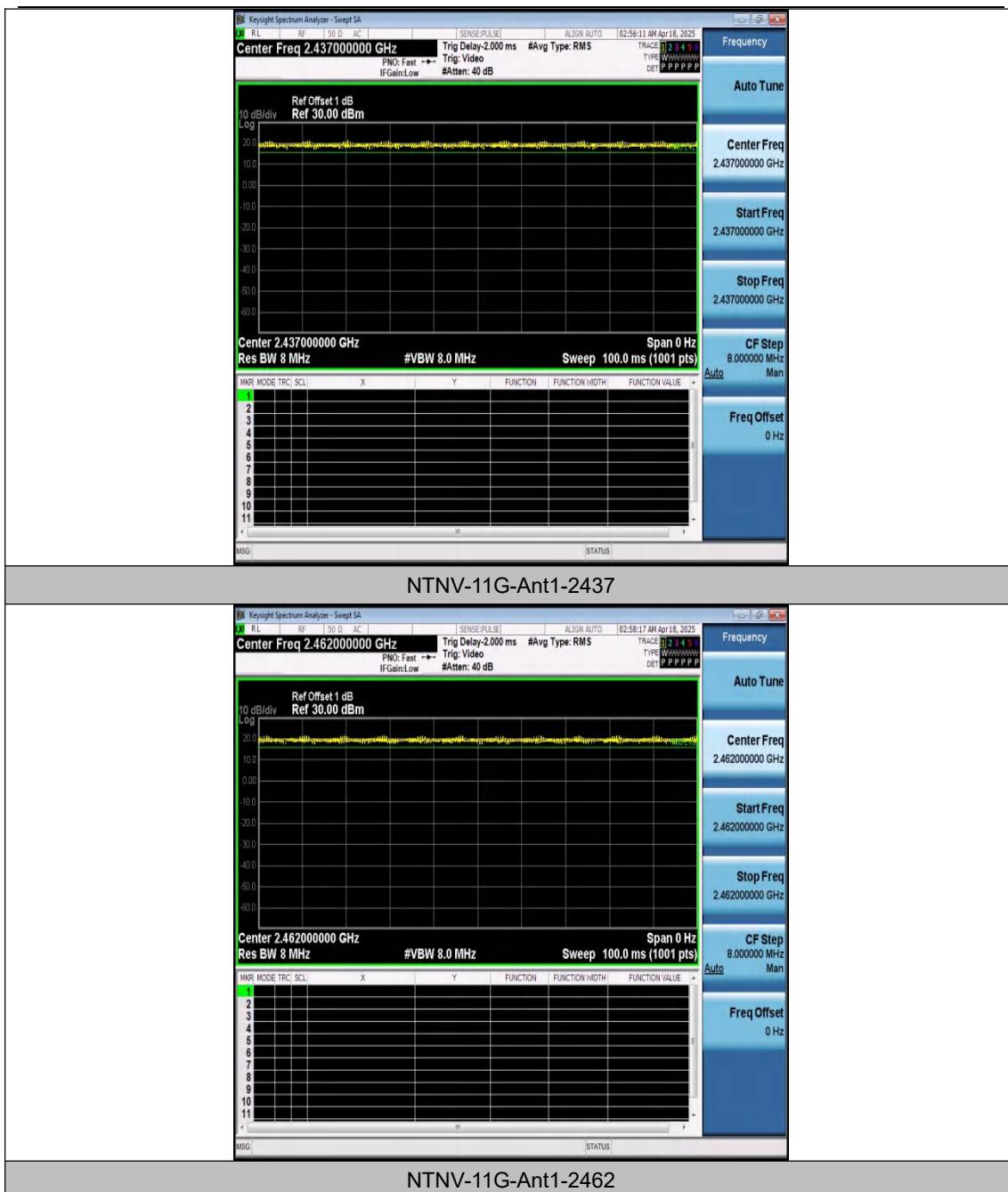
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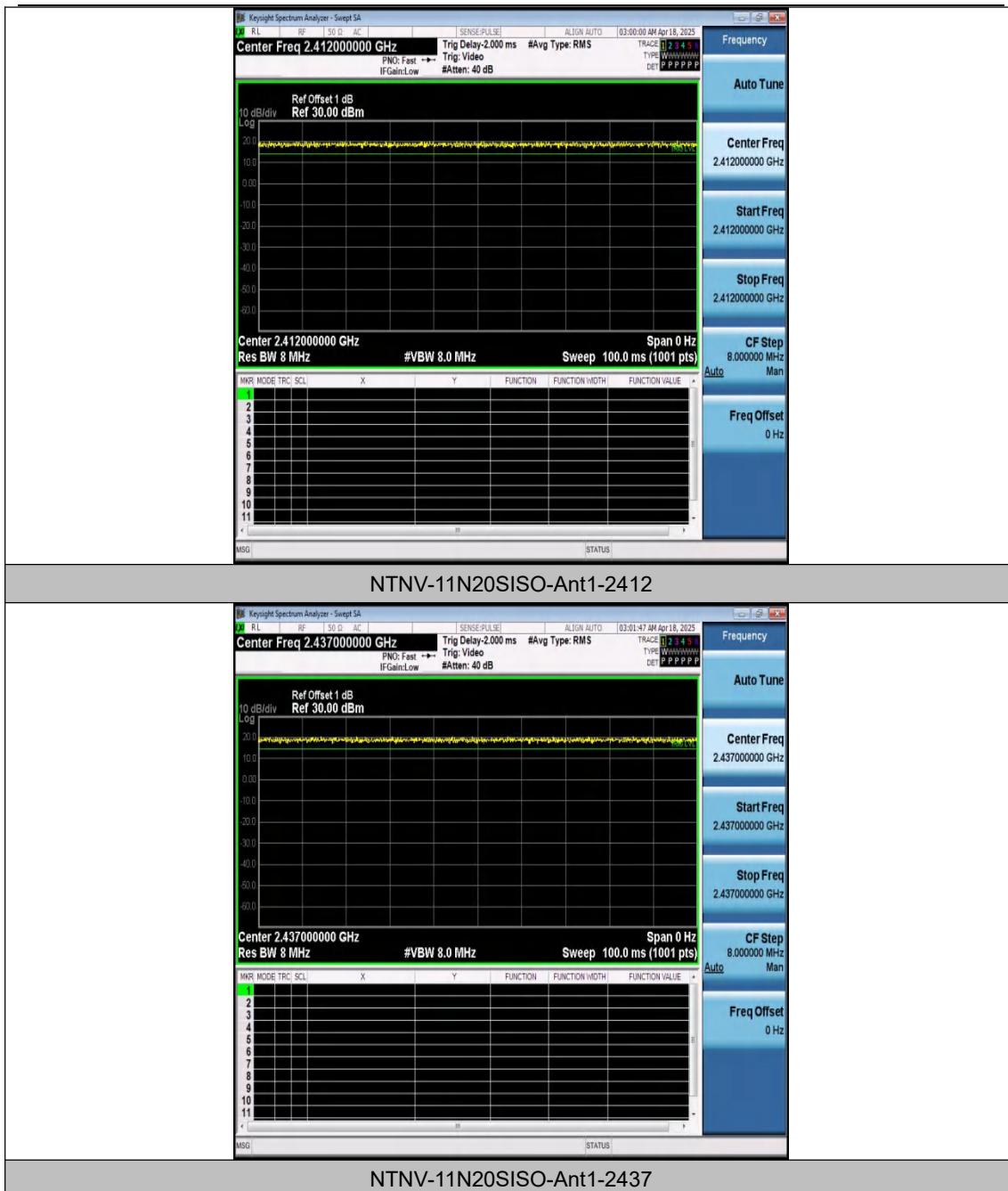
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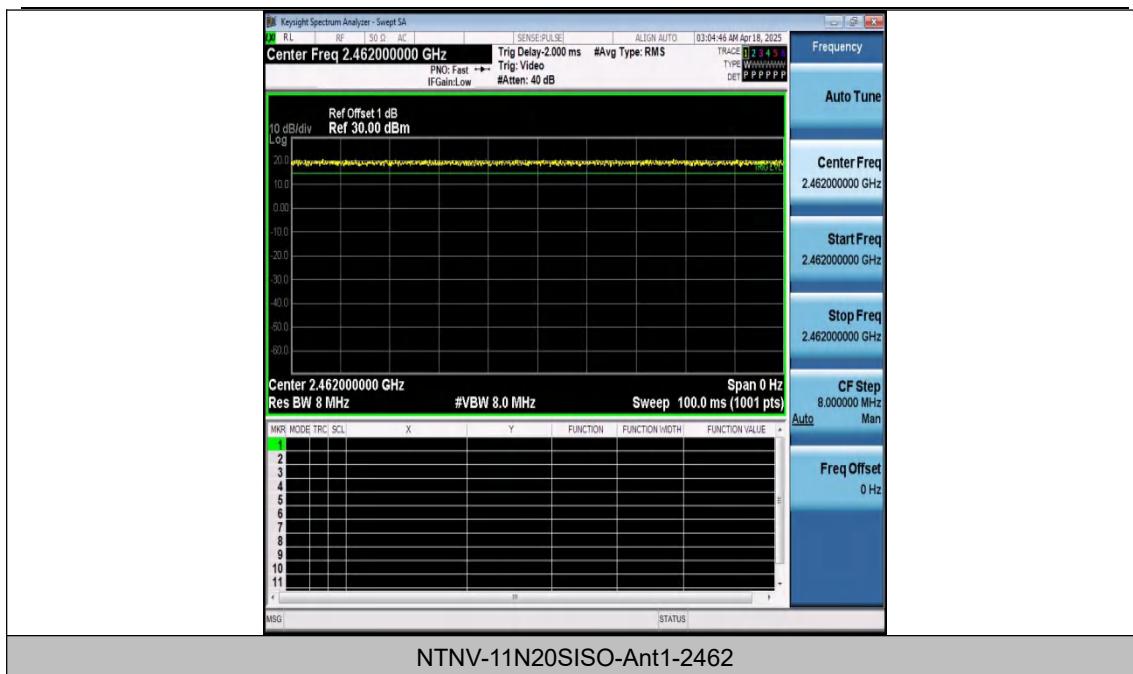
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---End---

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