

Appendix Test Data

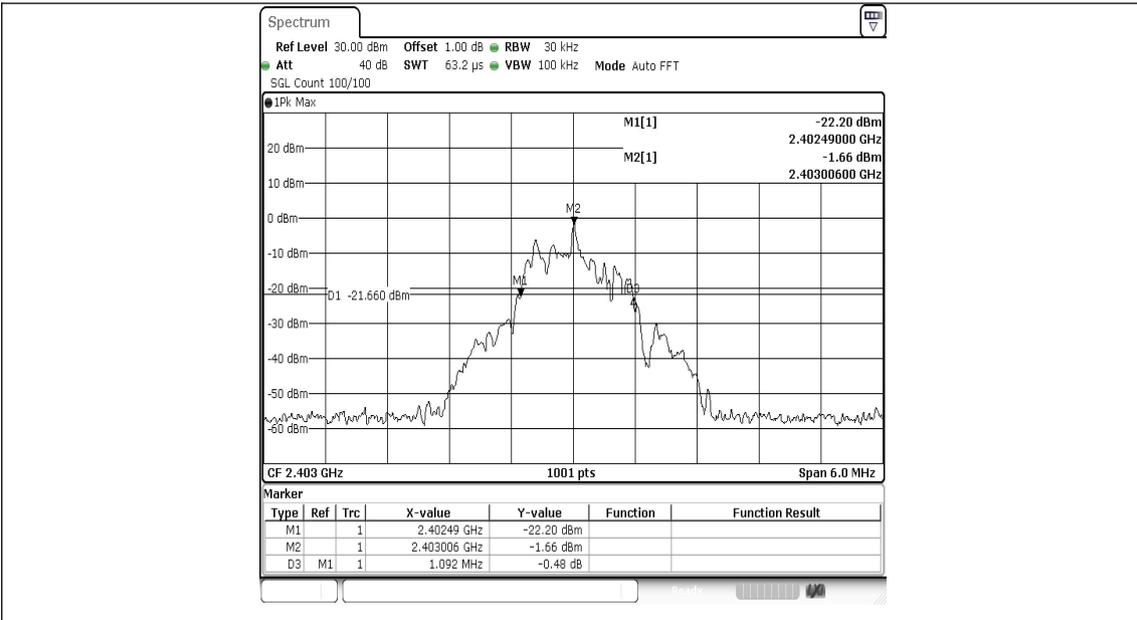
Report No.:	1812C50342812502	Test Sample No.:	1-2-2
Start Test Date:	2025-7-11	Finish Test Date:	2025-8-4
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.7°C	Relative Humidity:	44%
Pressure:	101kPa		

Appendix A: 20dB Bandwidth

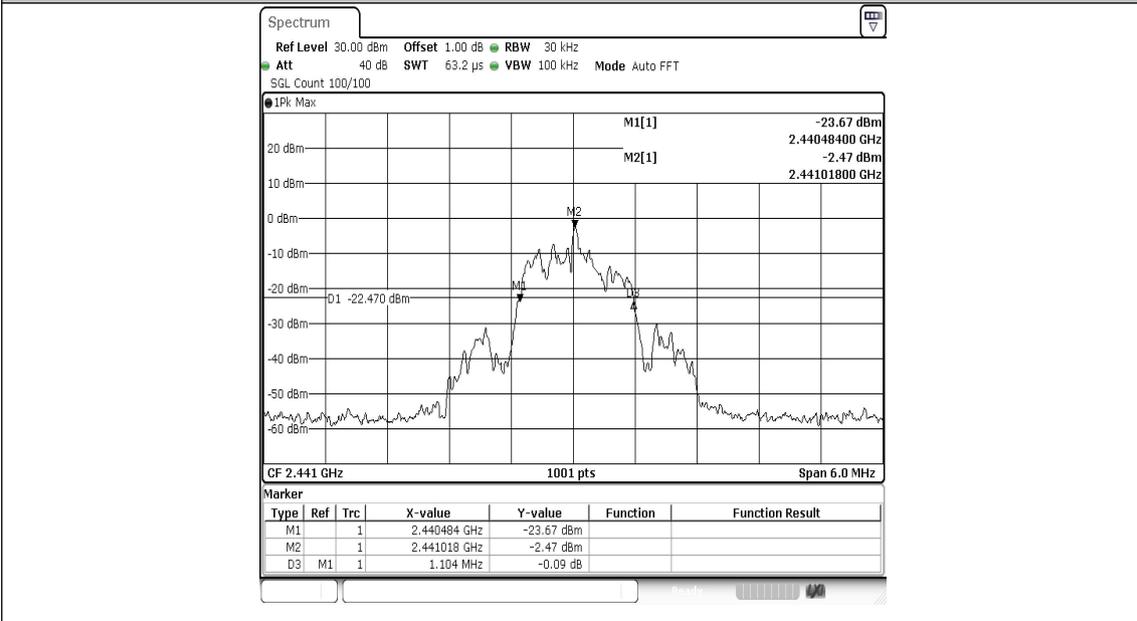
Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	1.09	2402.49	2403.58	---	---
2.4G	Ant1	2441	1.10	2440.48	2441.59	---	---
2.4G	Ant1	2480	1.09	2479.50	2480.59	---	---

Test Graphs



2.4G-Ant1-2403



2.4G-Ant1-2441



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Appendix B: 99% Occupied Bandwidth

Test Result

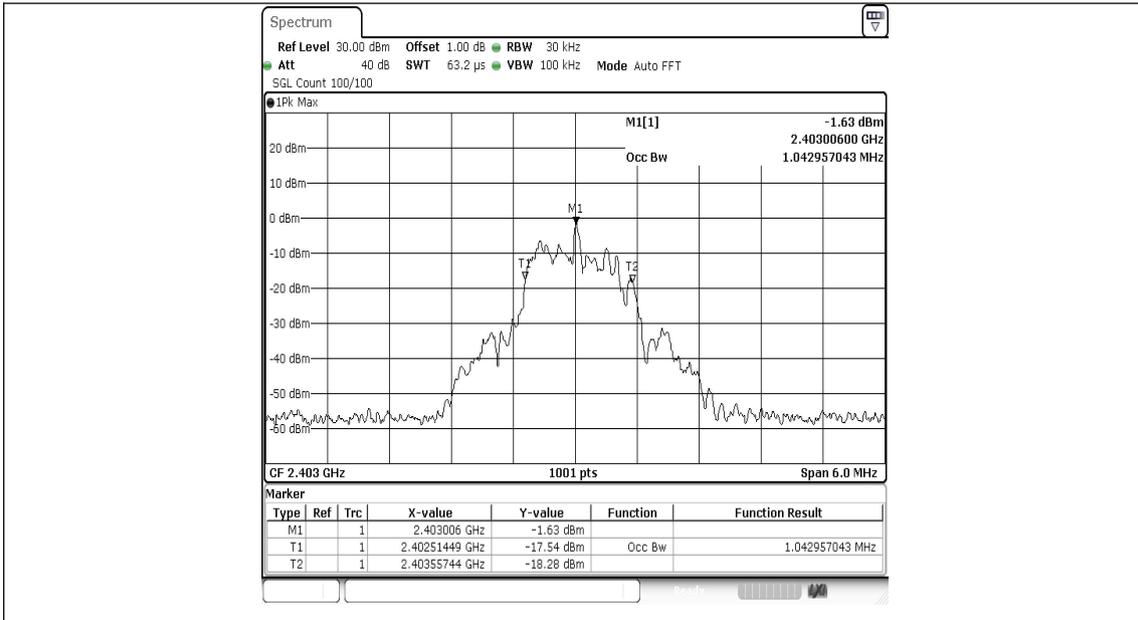
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	1.0430	2402.5145	2403.5574	---	---
2.4G	Ant1	2441	1.0789	2440.4845	2441.5634	---	---
2.4G	Ant1	2480	1.2048	2479.3526	2480.5574	---	---

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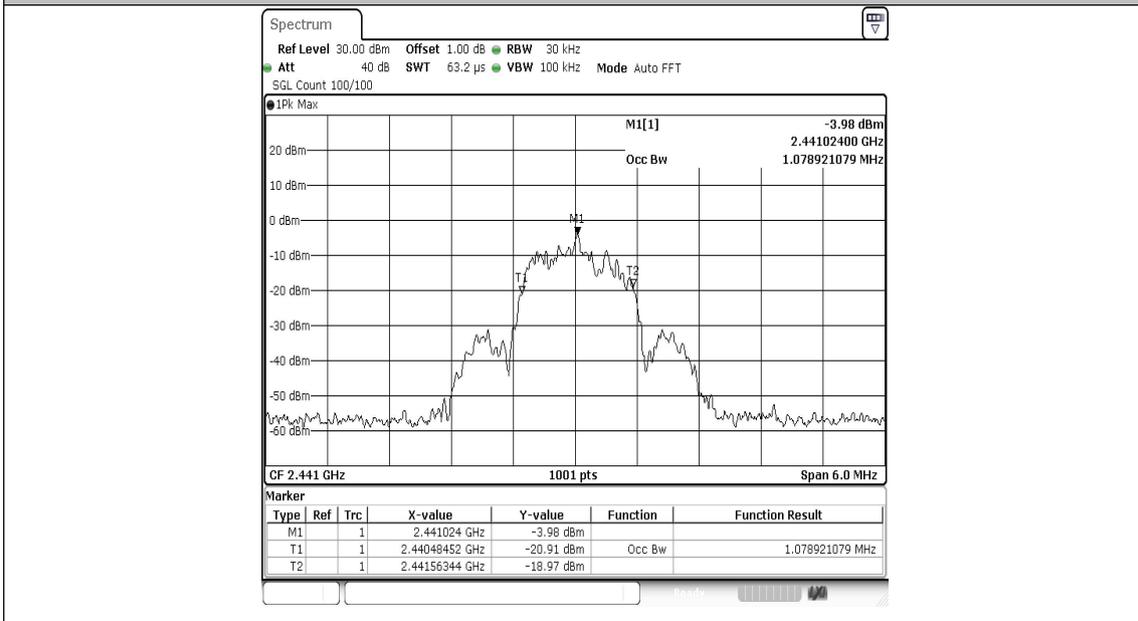
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Test Graphs



2.4G-Ant1-2403



2.4G-Ant1-2441

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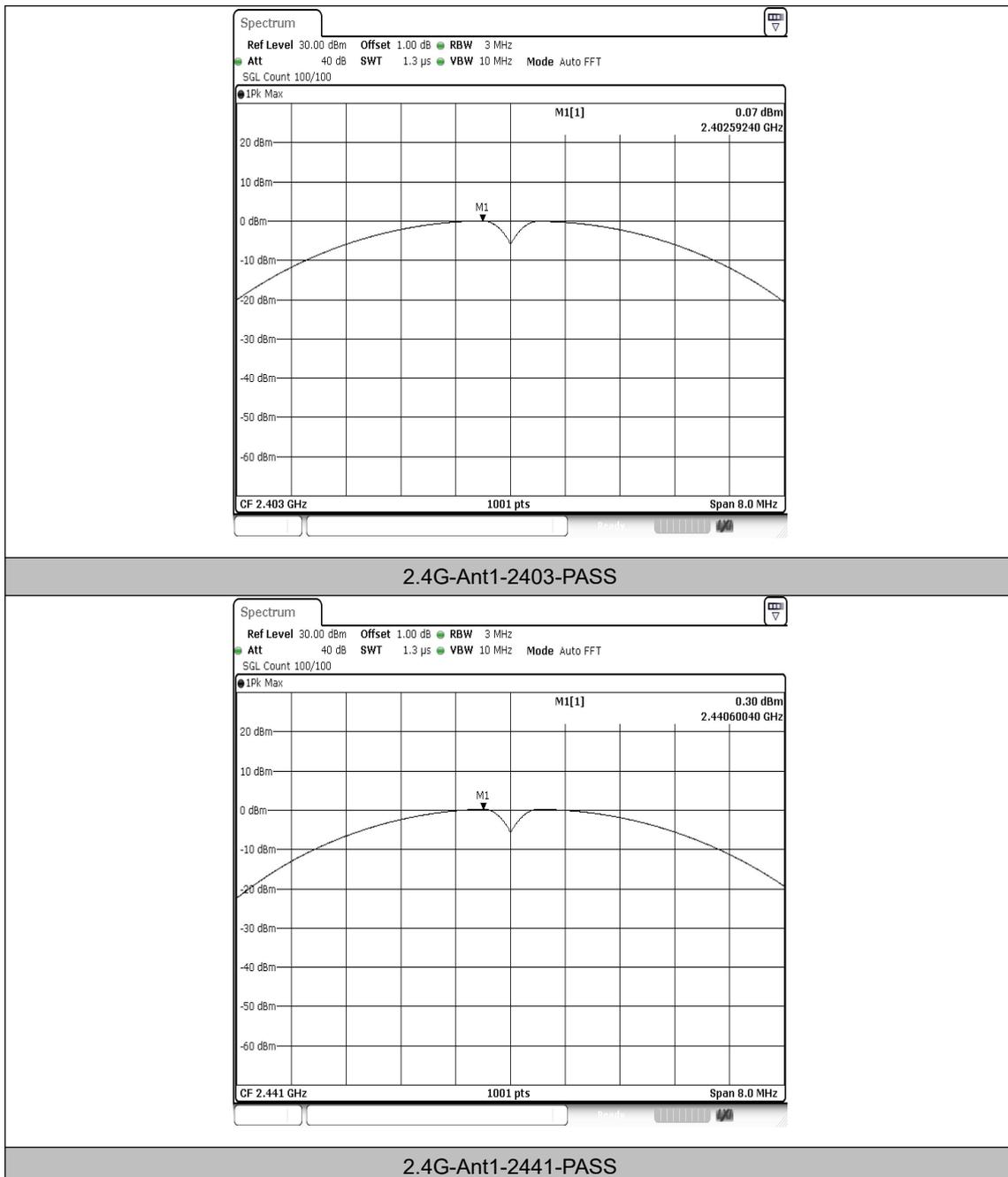
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Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	0.07	≤20.97	PASS
2.4G	Ant1	2441	0.30	≤20.97	PASS
2.4G	Ant1	2480	0.59	≤20.97	PASS

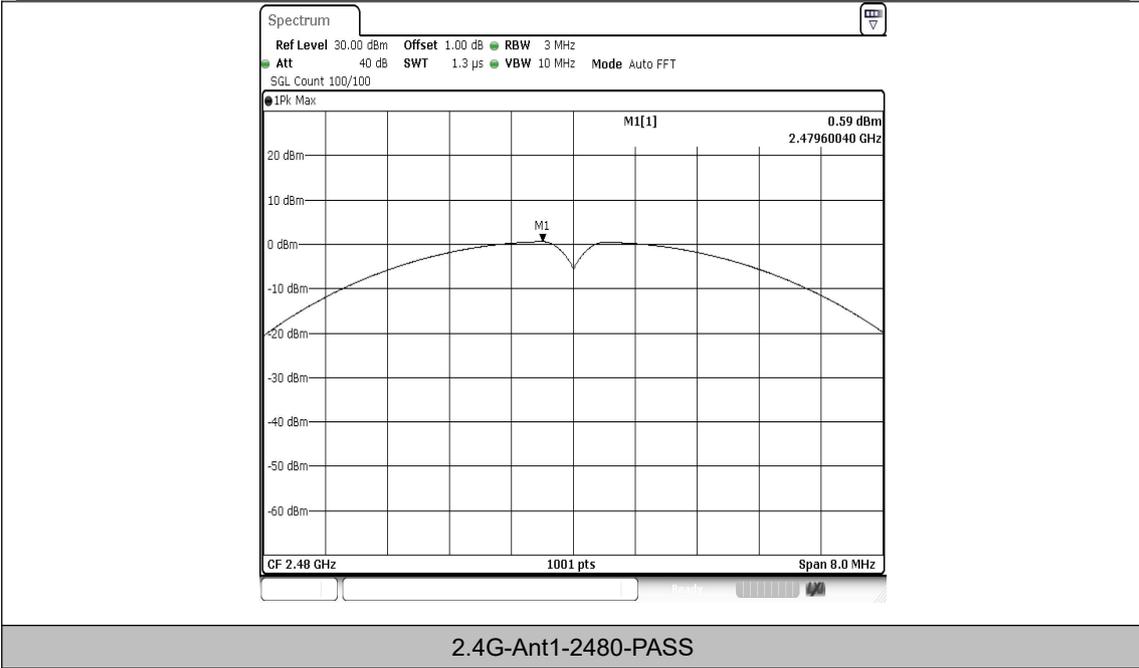
Test Graphs



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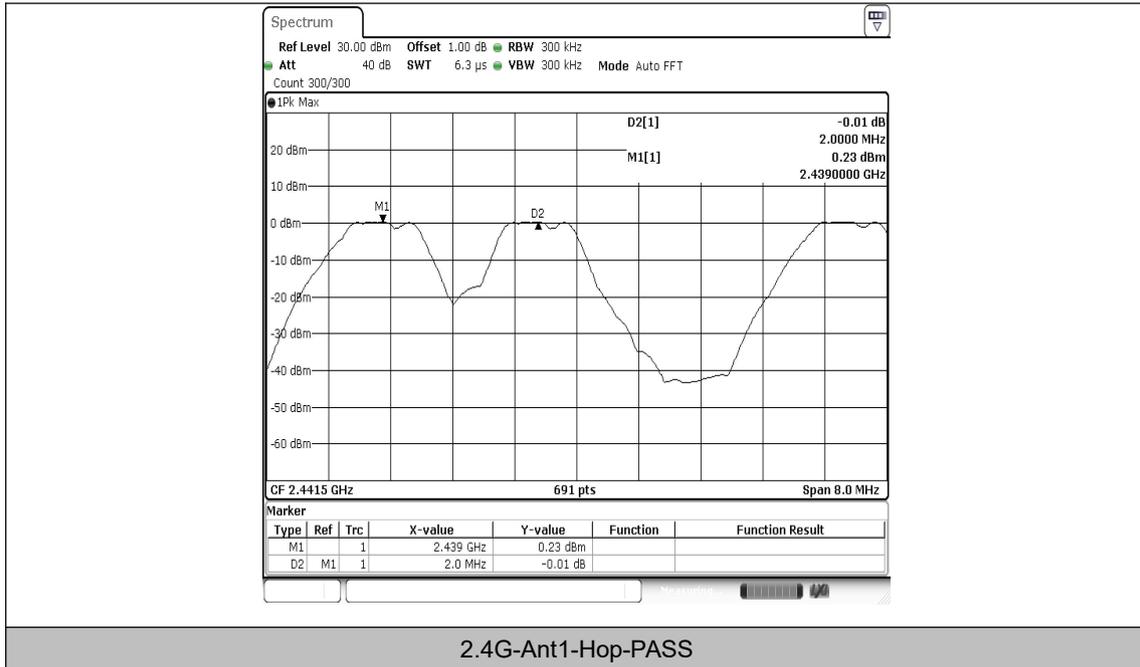
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥0.727	PASS

Test Graphs



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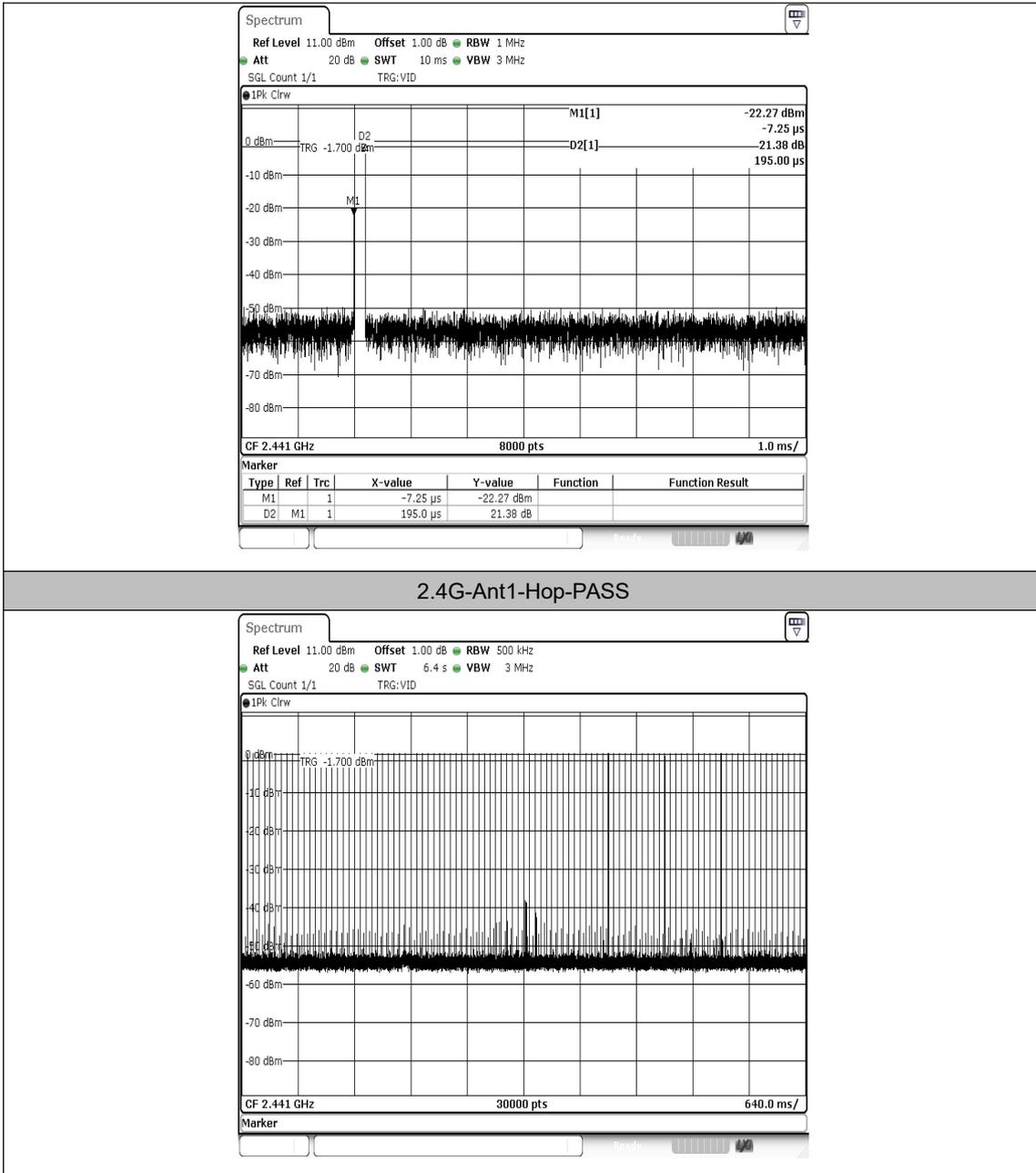
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Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant1	Hop	0.195	100	0.02	≤0.4	PASS

Test Graphs



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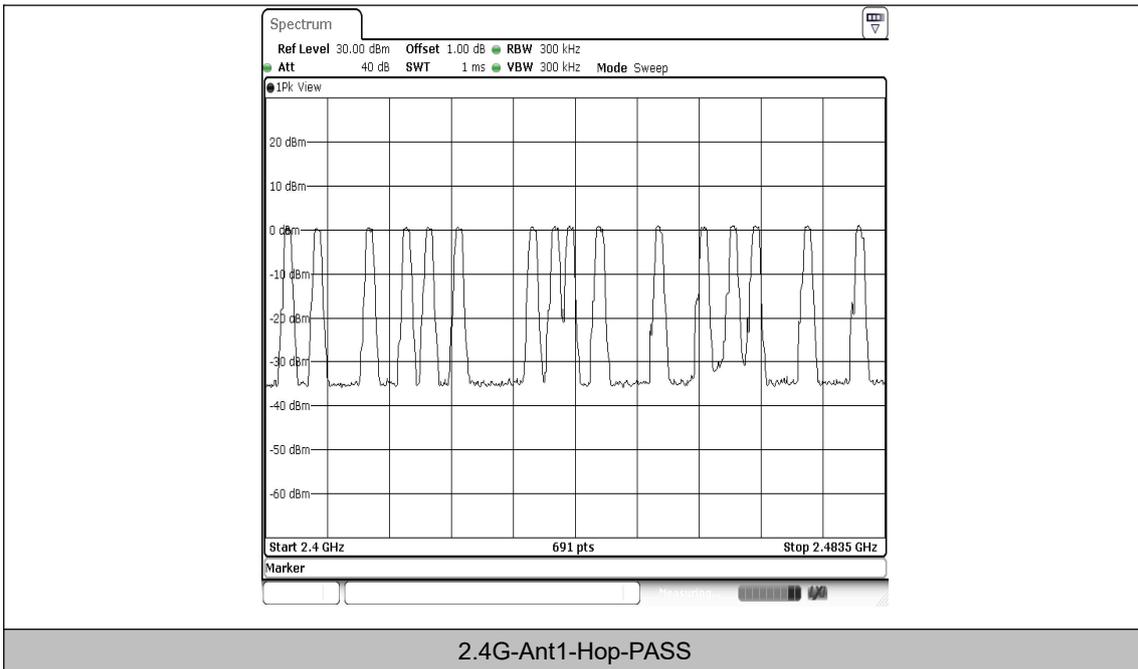
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Appendix F: Number of Hopping Channel

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
2.4G	Ant1	Hop	16	≥15	PASS

Test Graphs



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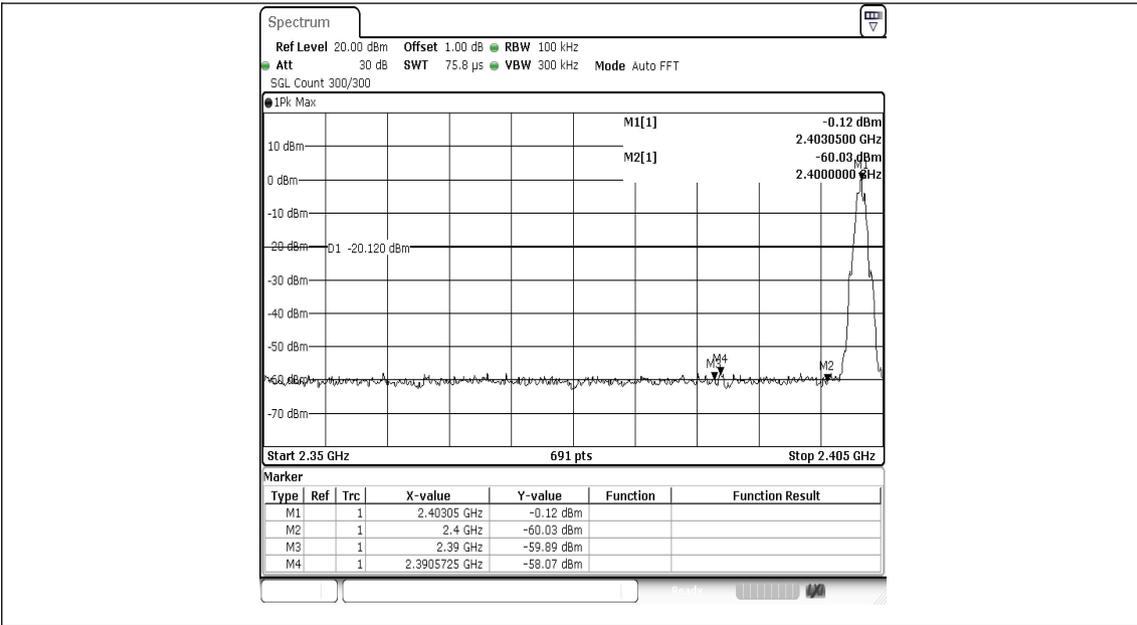
Appendix G: Conducted Band edge

Test Result

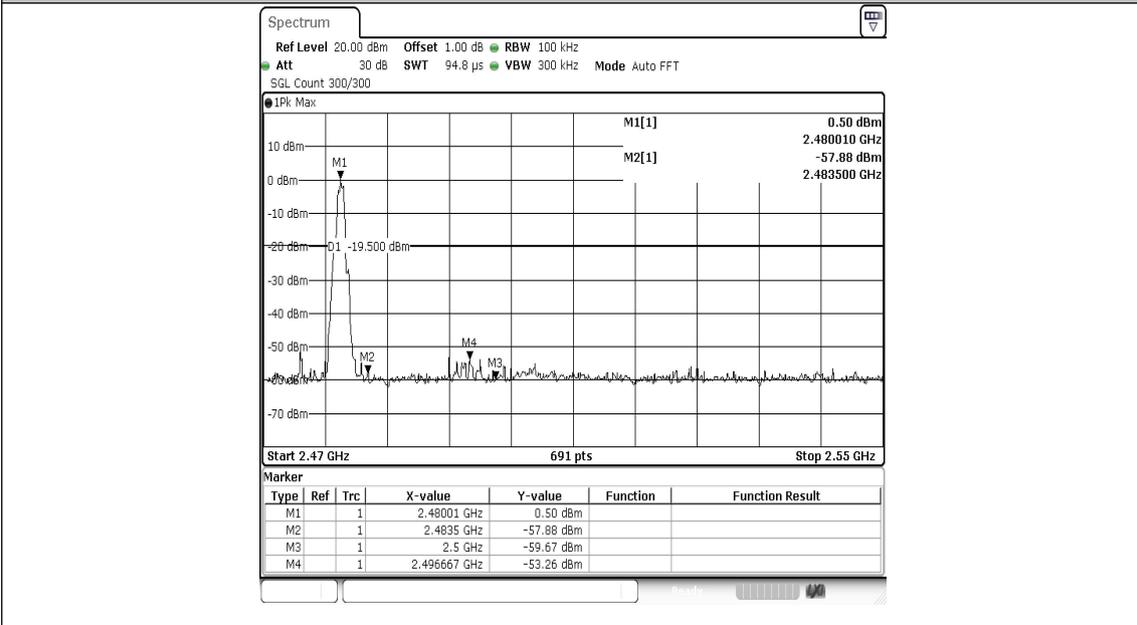
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	-0.12	-58.07	≤-20.12	PASS
2.4G	Ant1	High	2480	0.50	-53.26	≤-19.5	PASS
2.4G	Ant1	Low	Hop_2403	-2.65	-54.19	≤-22.65	PASS
2.4G	Ant1	High	Hop_2480	0.55	-50.85	≤-19.45	PASS

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

Test Graphs



2.4G-Ant1-2403-PASS

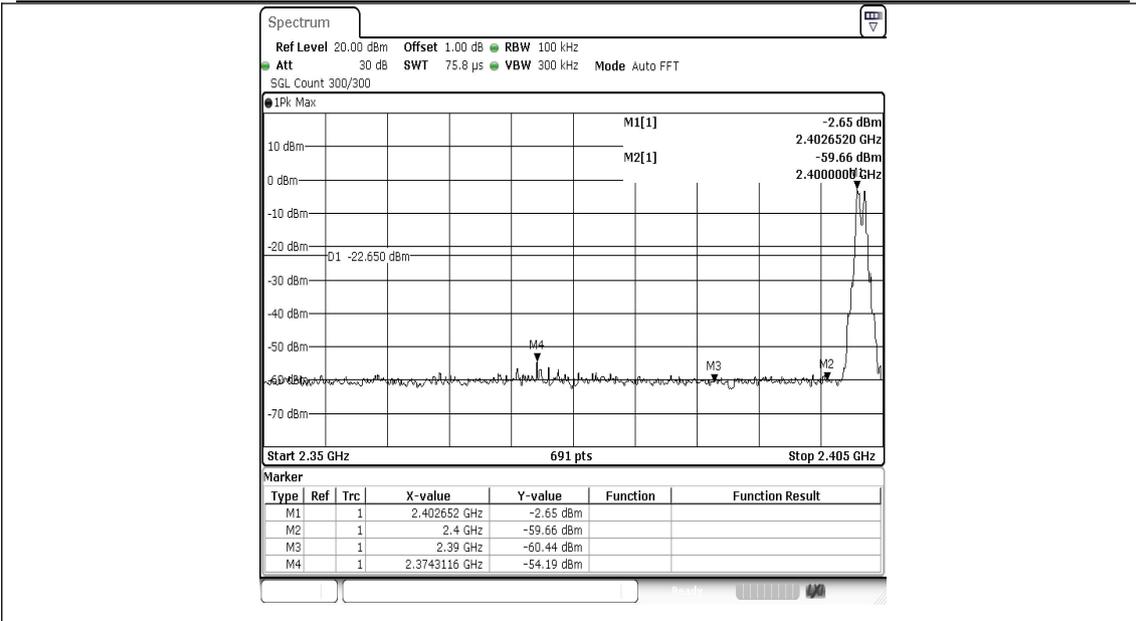


2.4G-Ant1-2480-PASS

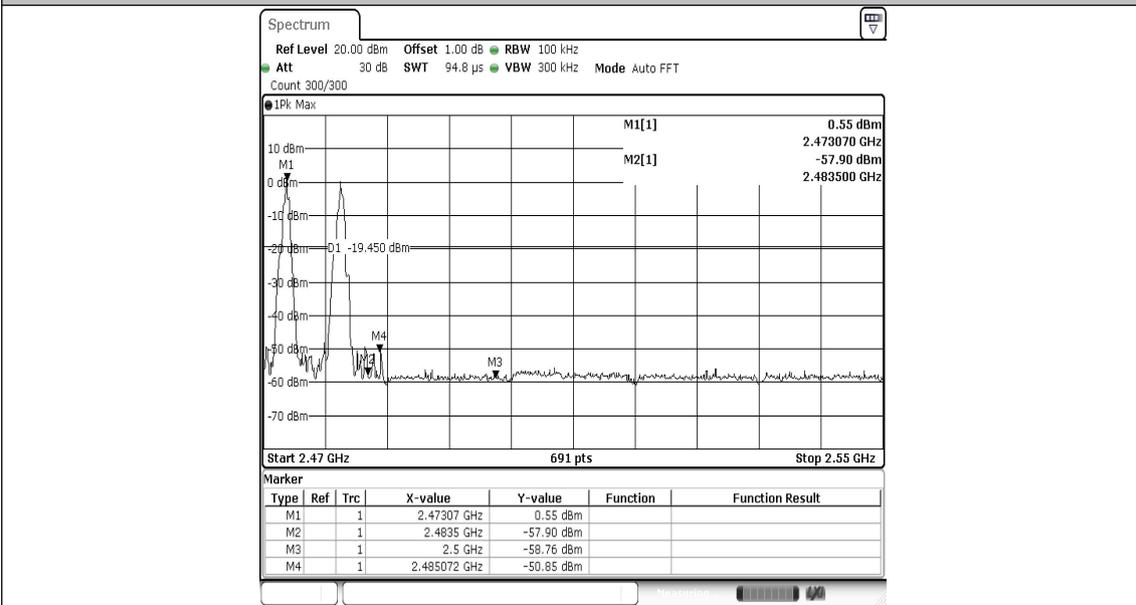
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2.4G-Ant1-Hop_2403-PASS



2.4G-Ant1-Hop_2480-PASS

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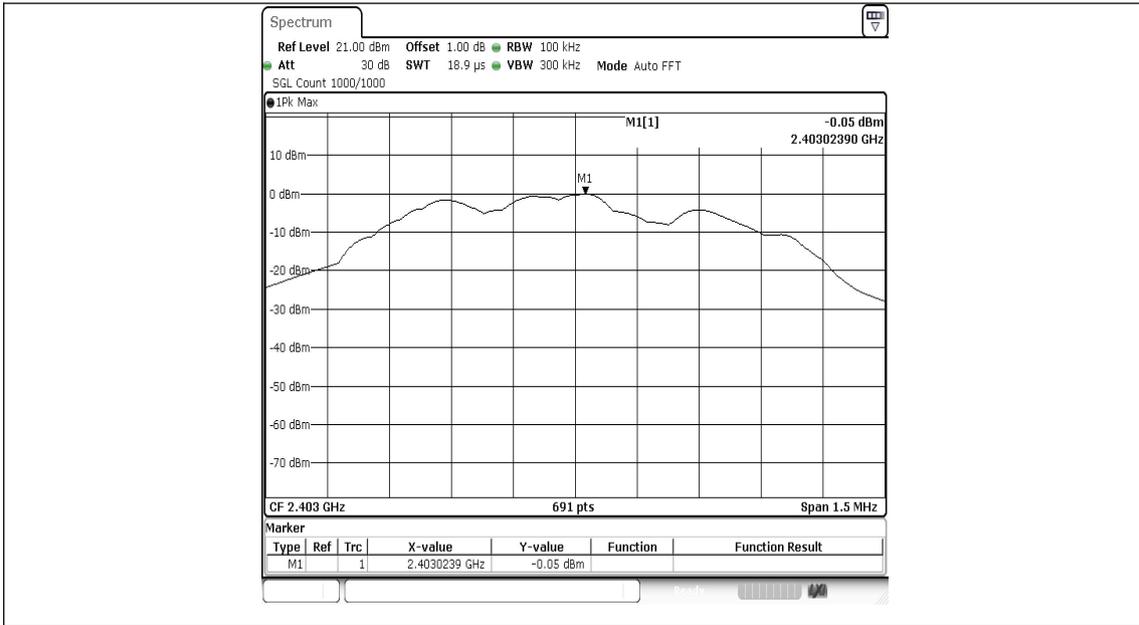
Appendix H: Conducted Spurious Emission

Test Result

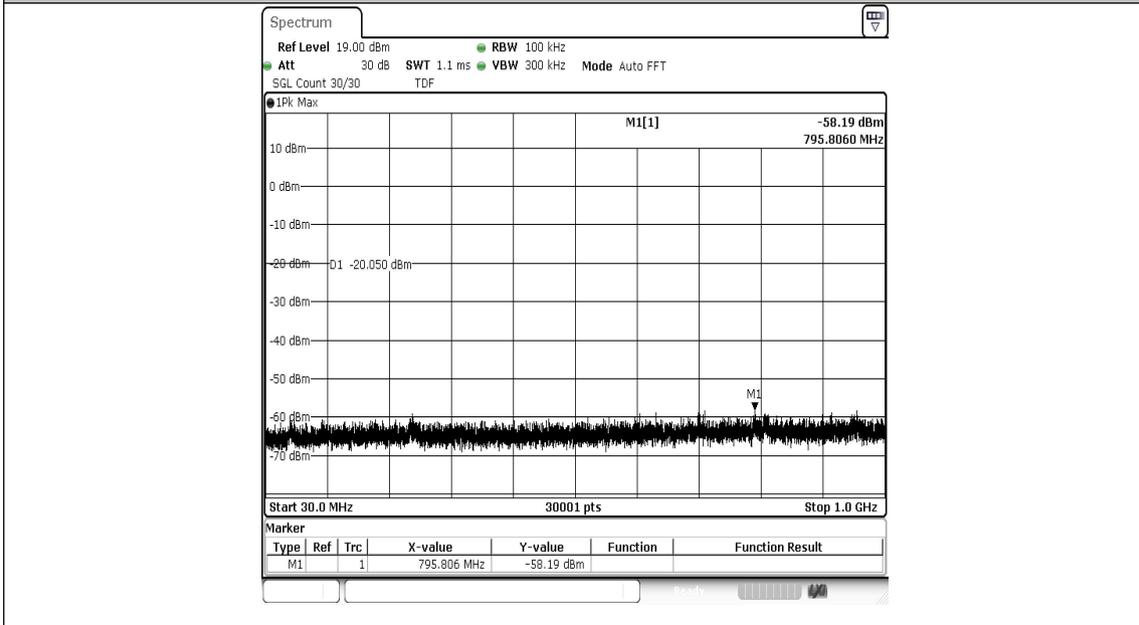
Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	0~Reference	-0.05	-0.05	---	PASS
2.4G	Ant1	2403	30~1000	-0.05	-58.19	≤-20.05	PASS
2.4G	Ant1	2403	1000~26500	-0.05	-44.21	≤-20.05	PASS
2.4G	Ant1	2441	0~Reference	0.19	0.19	---	PASS
2.4G	Ant1	2441	30~1000	0.19	-57.94	≤-19.81	PASS
2.4G	Ant1	2441	1000~26500	0.19	-43.68	≤-19.81	PASS
2.4G	Ant1	2480	0~Reference	0.52	0.52	---	PASS
2.4G	Ant1	2480	30~1000	0.52	-58.05	≤-19.48	PASS
2.4G	Ant1	2480	1000~26500	0.52	-44.13	≤-19.48	PASS

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

Test Graphs



2.4G-Ant1-2403-0~Reference-PASS

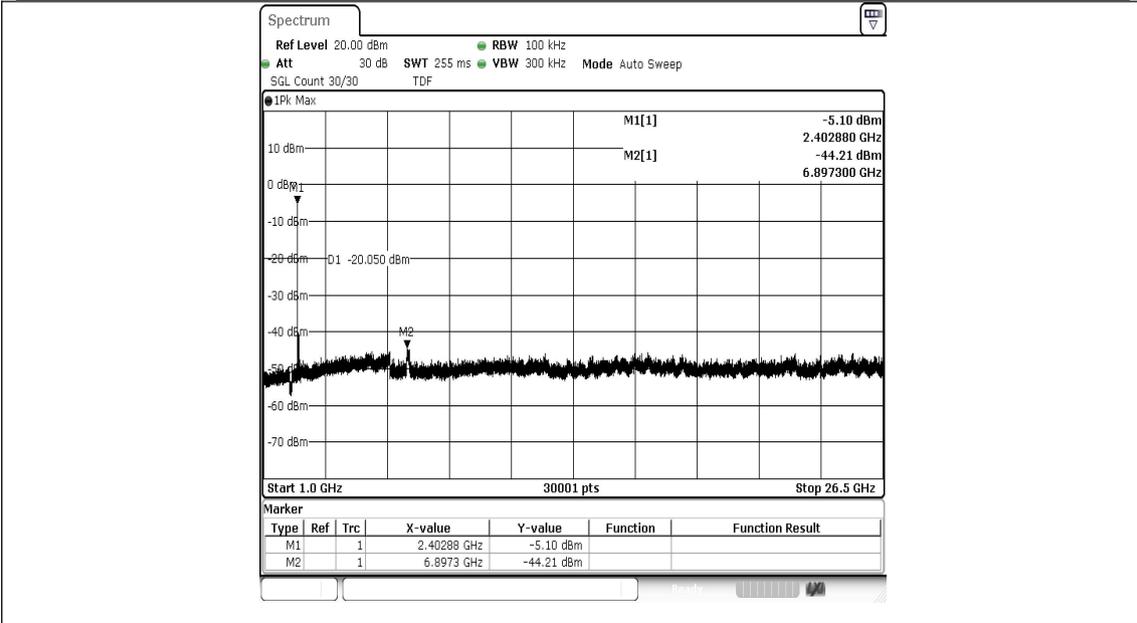


2.4G-Ant1-2403-30~1000-PASS

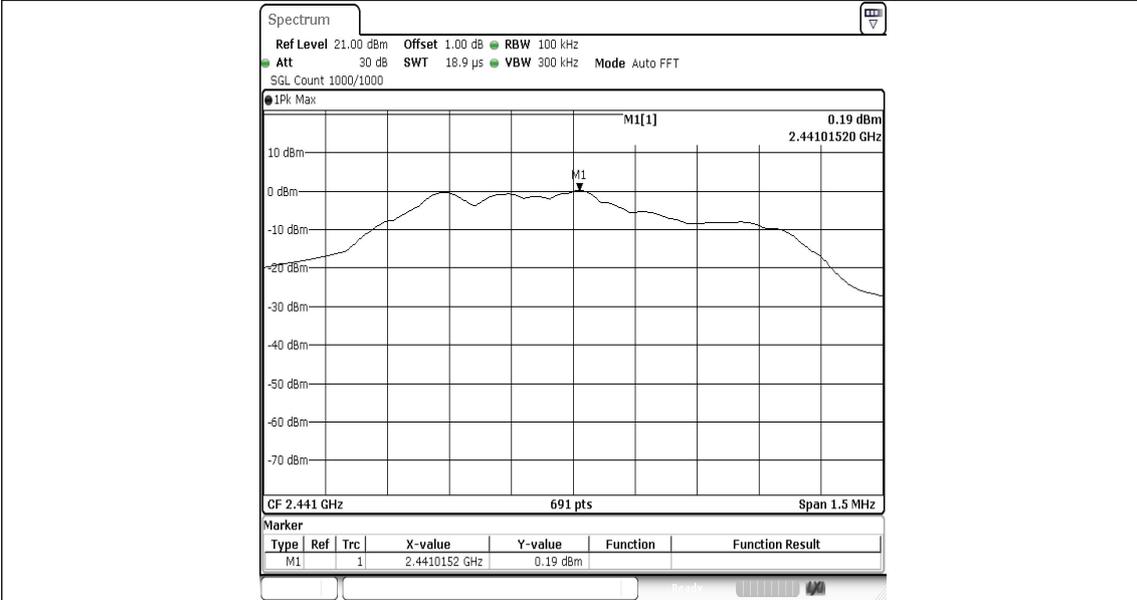
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2.4G-Ant1-2403-1000~26500-PASS

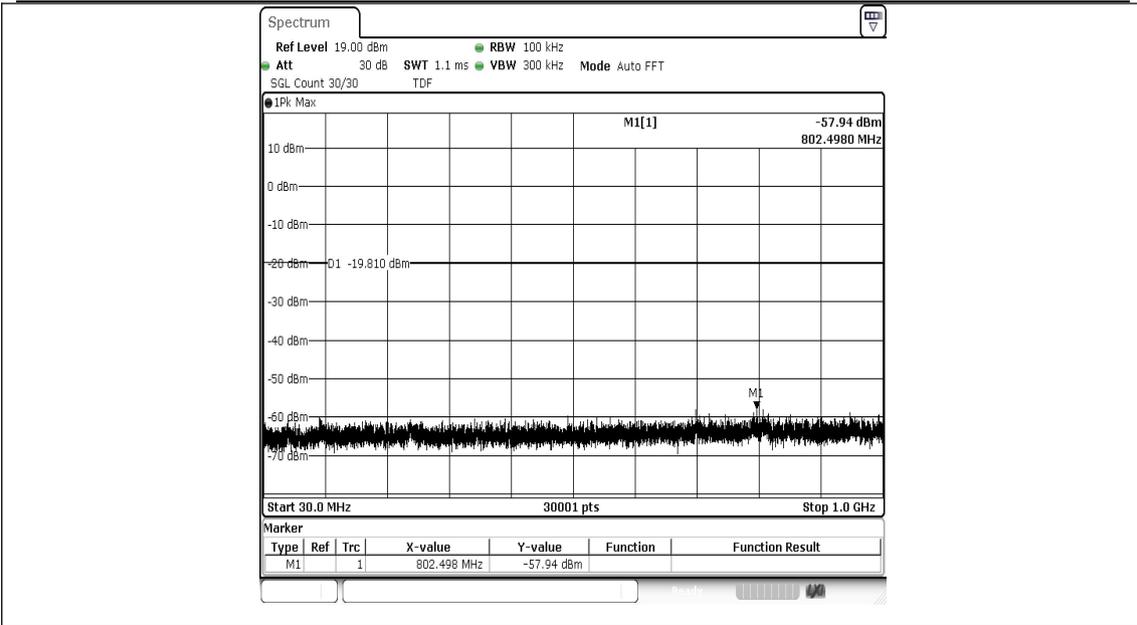


2.4G-Ant1-2441-0~Reference-PASS

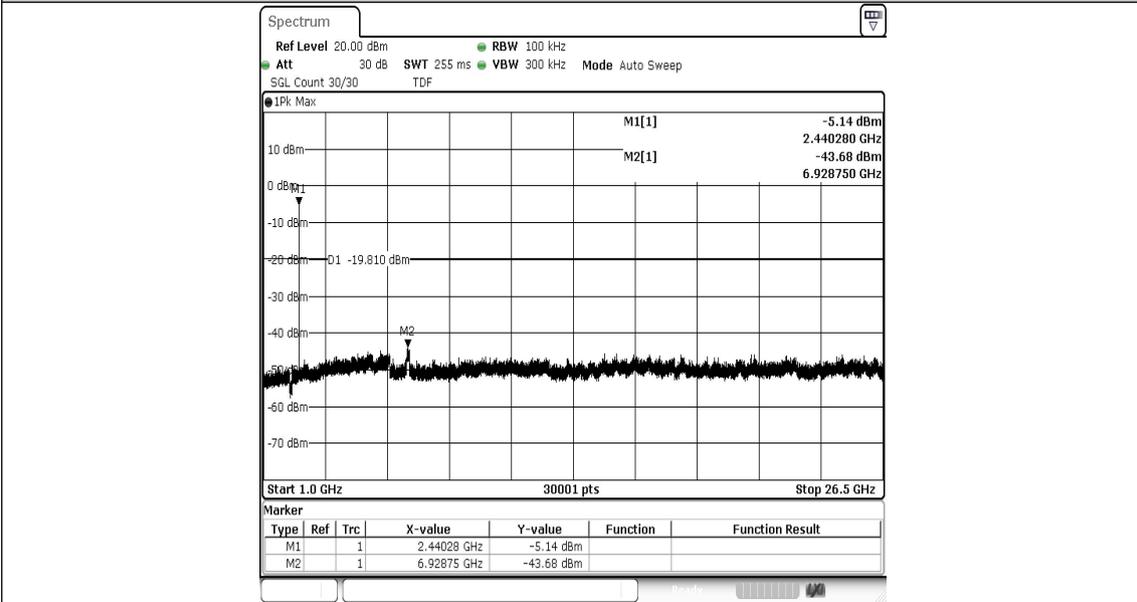
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2.4G-Ant1-2441-30~100-PASS

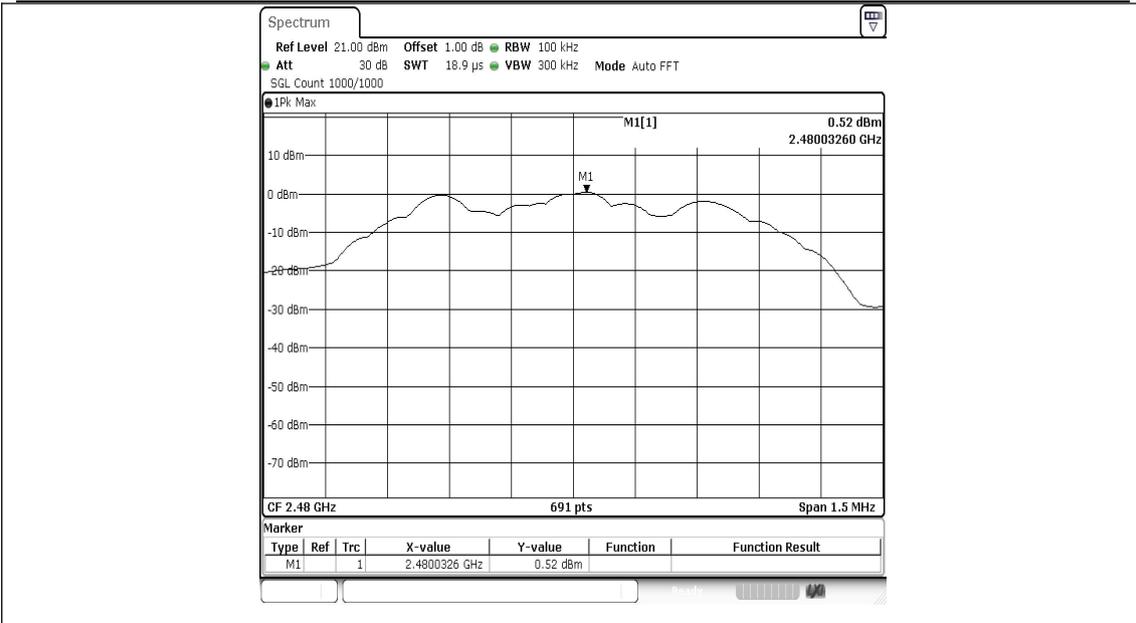


2.4G-Ant1-2441-1000~2650-PASS

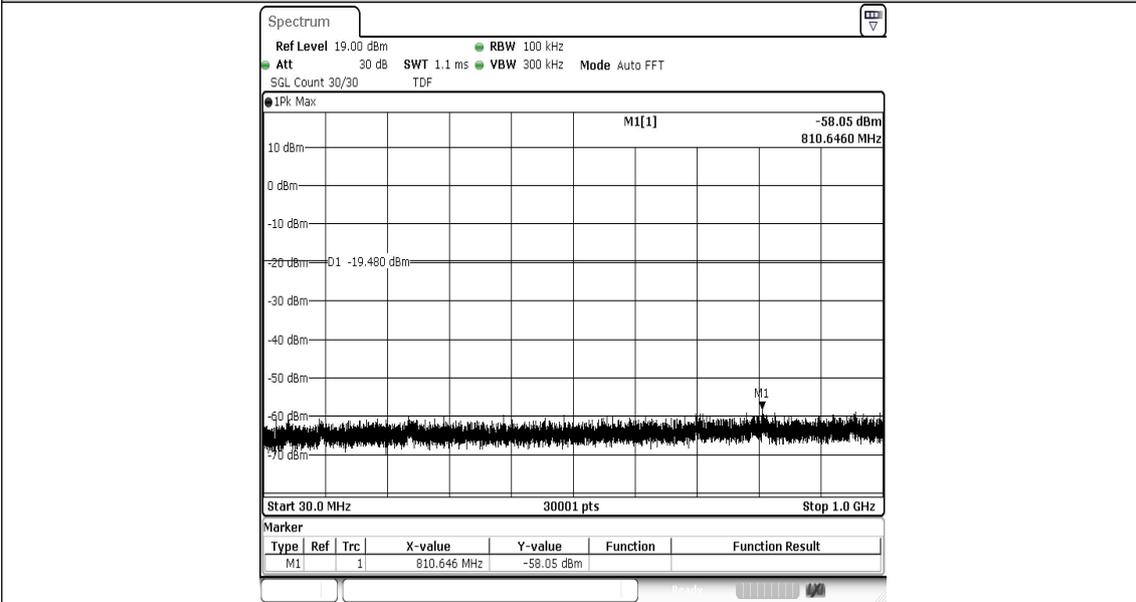
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2.4G-Ant1-2480-0~Reference-PASS

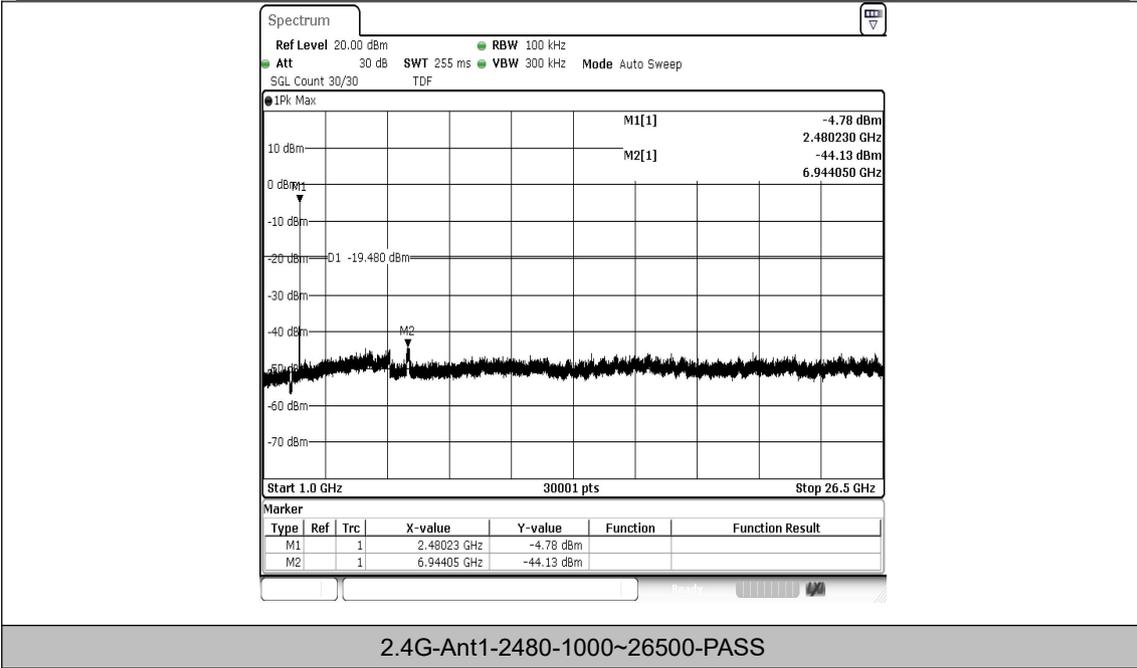


2.4G-Ant1-2480-30~1000-PASS

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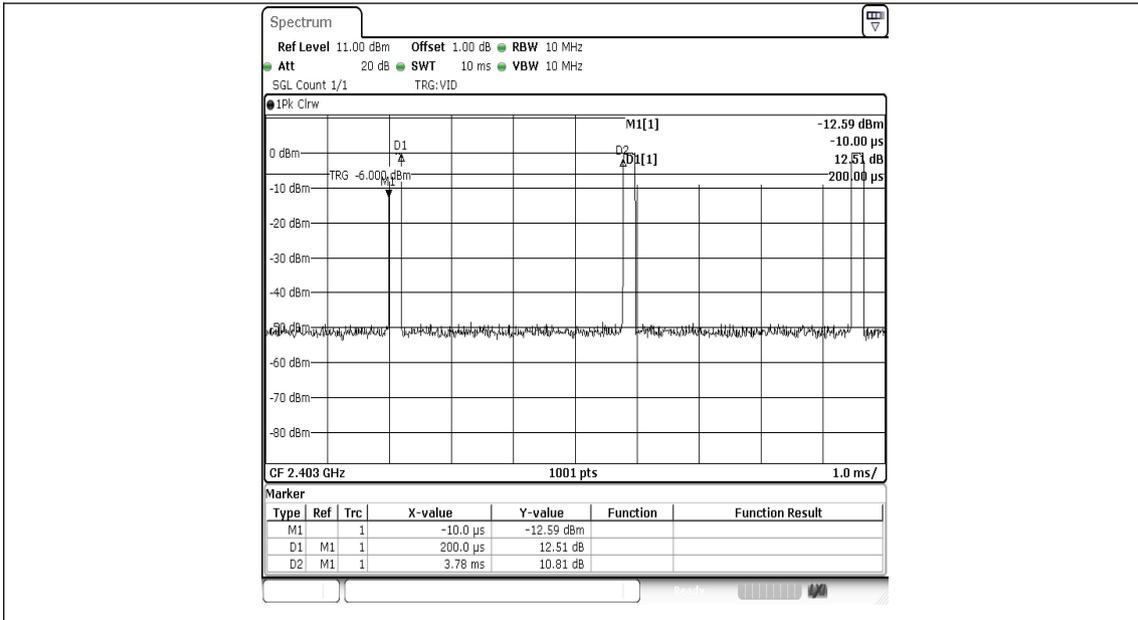
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Appendix I: Duty Cycle

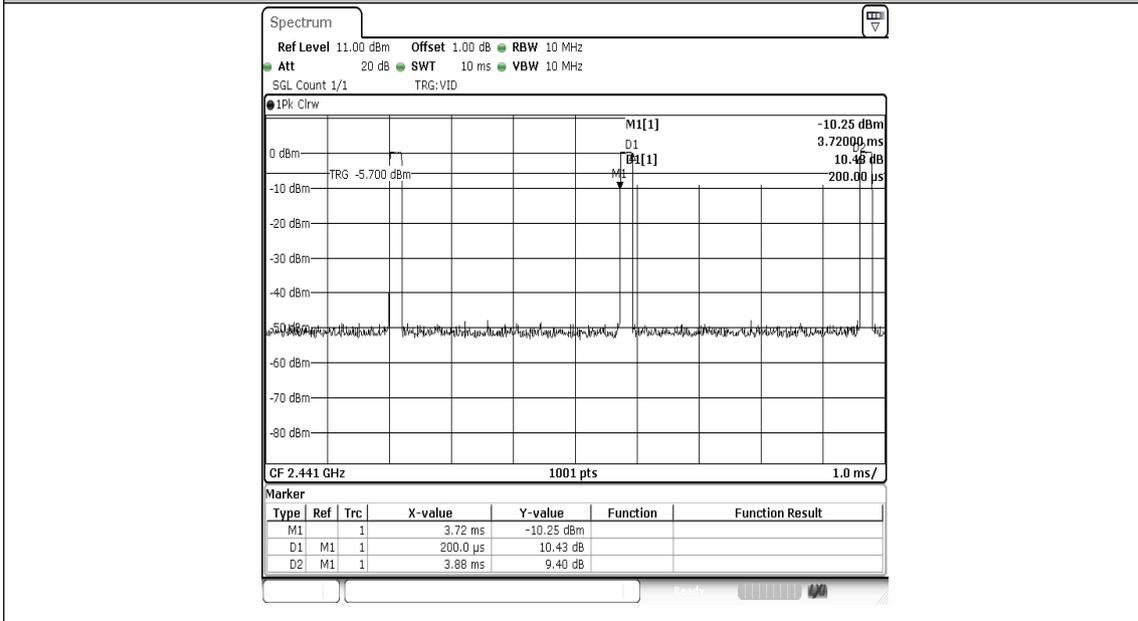
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.20	3.78	5.29	12.77
2.4G	Ant1	2441	0.20	3.88	5.15	12.88
2.4G	Ant1	2480	0.20	3.88	5.15	12.88

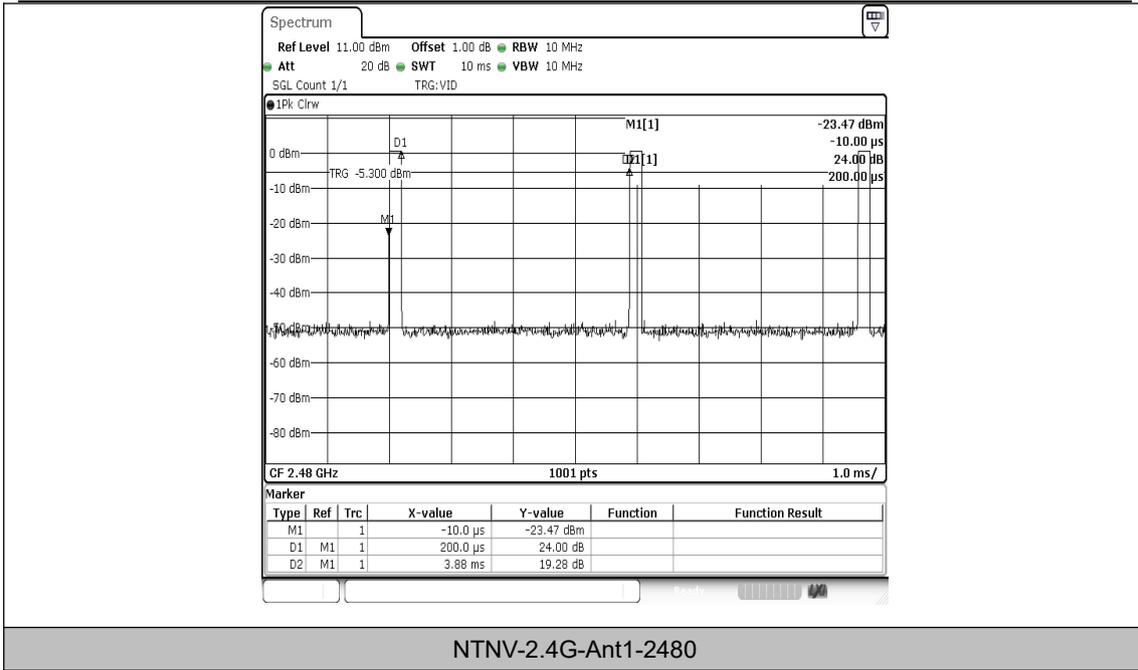
Test Graphs



NTNV-2.4G-Ant1-2403



NTNV-2.4G-Ant1-2441



---End---

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