

Appendix Test Data

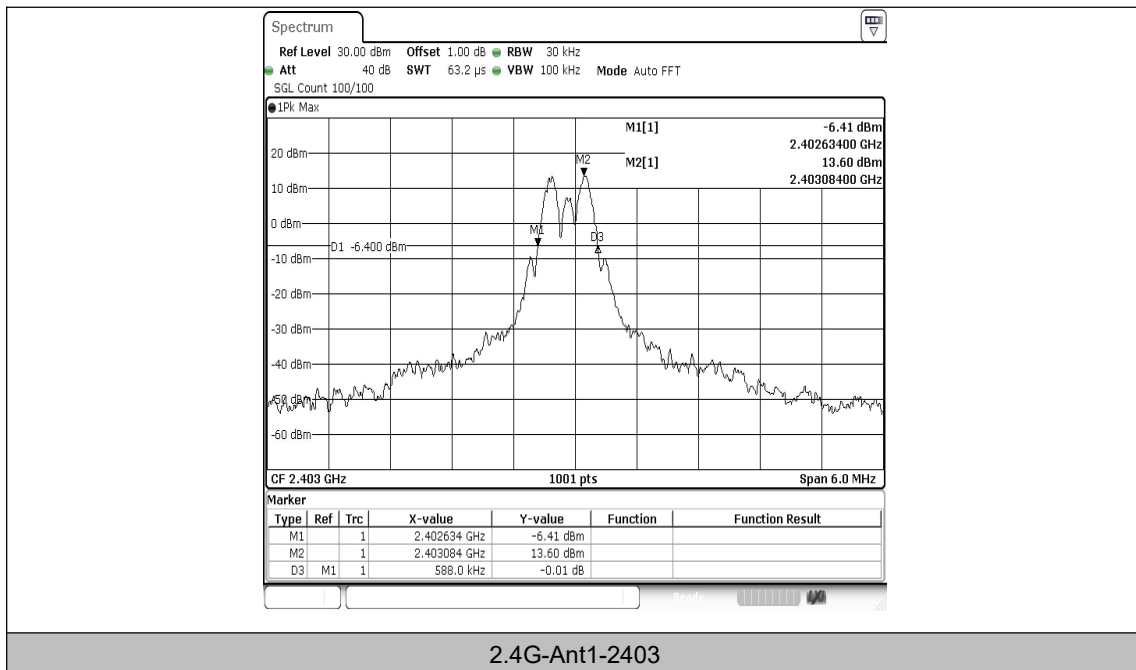
Report No.:	1812C50325112502	Test Sample No.:	1-2-2
Start Test Date:	2025-7-1	Finish Test Date:	2025-8-19
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.5°C	Relative Humidity:	53%
Pressure:	101kPa		

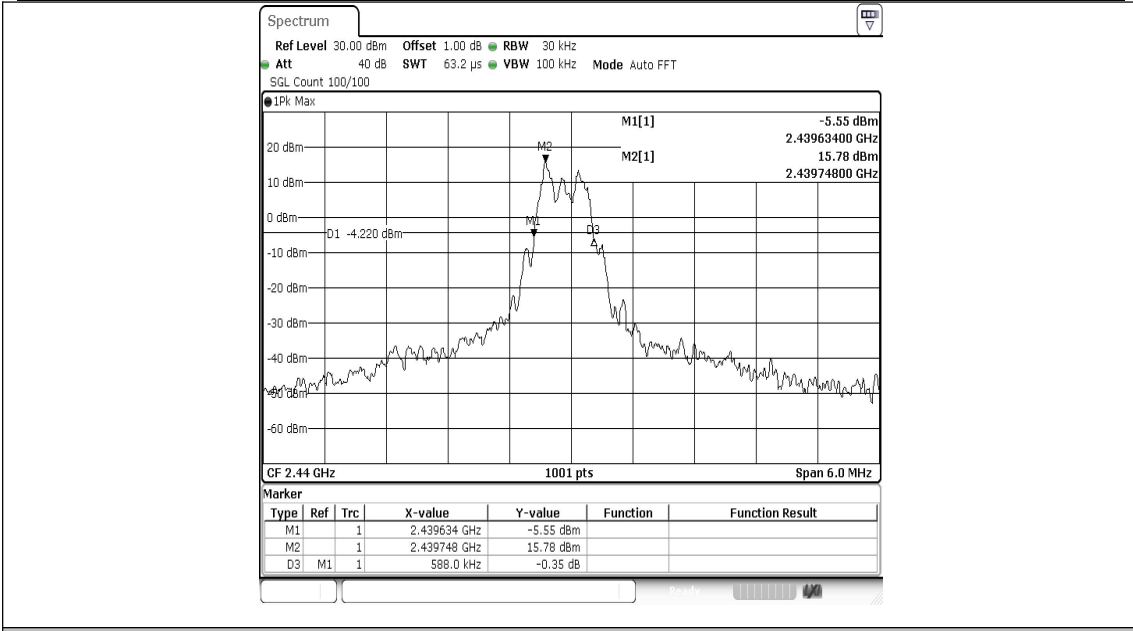
Appendix A: 20dB Bandwidth

Test Result

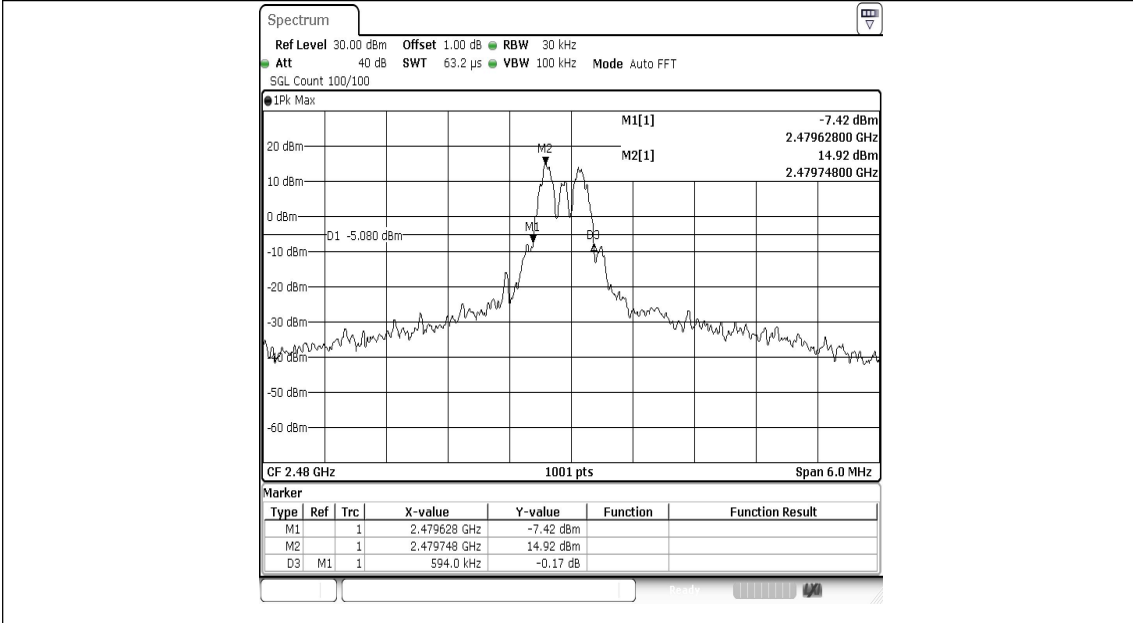
Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	0.59	2402.63	2403.22	---	---
2.4G	Ant1	2440	0.59	2439.63	2440.22	---	---
2.4G	Ant1	2480	0.59	2479.63	2480.22	---	---

Test Graphs





2.4G-Ant1-2440



2.4G-Ant1-2480

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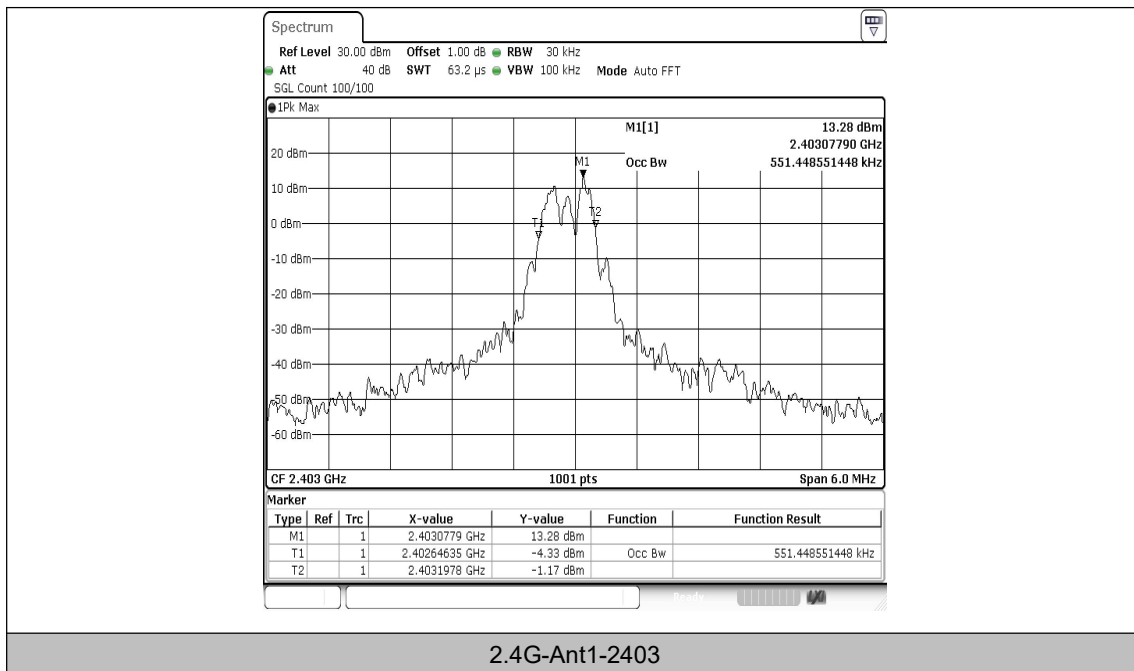
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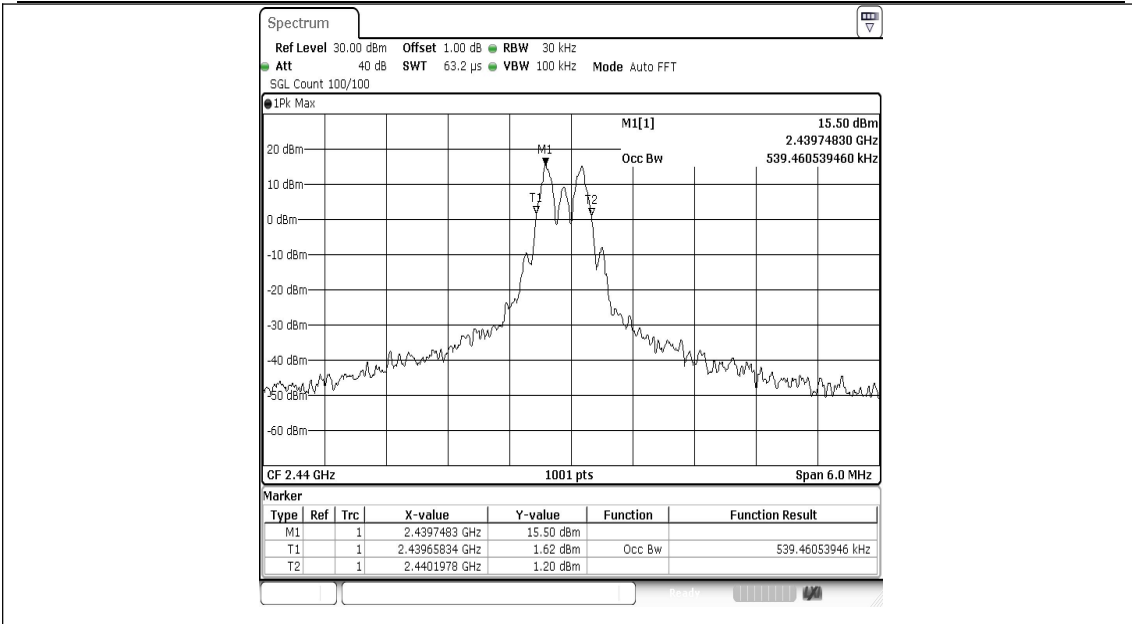
Appendix B: 99% Occupied Bandwidth

Test Result

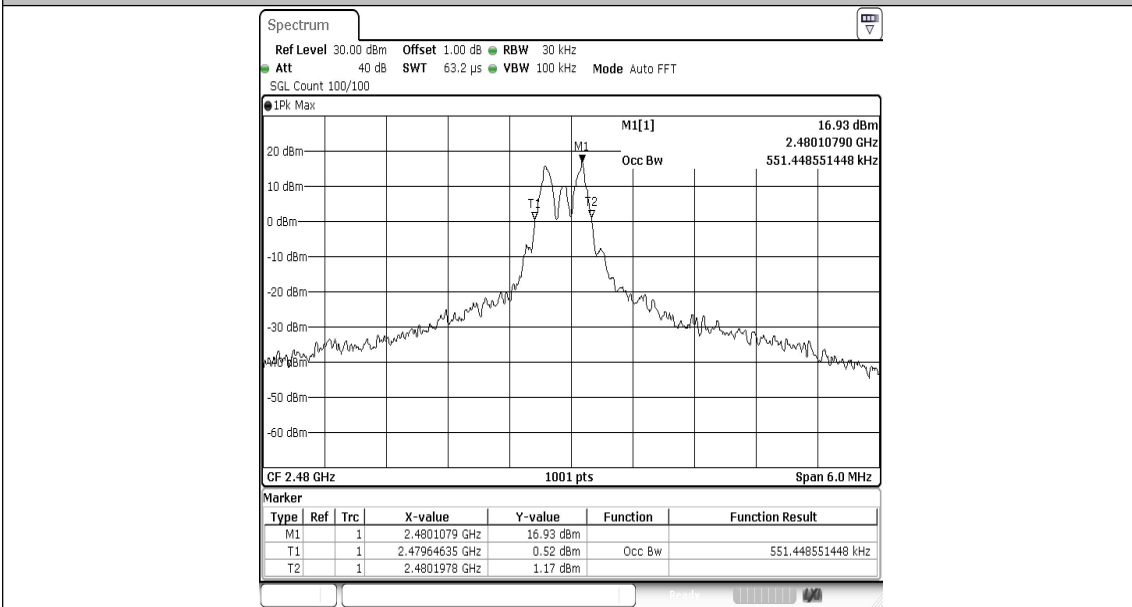
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	0.55145	2402.6464	2403.1978	---	---
2.4G	Ant1	2440	0.53946	2439.6583	2440.1978	---	---
2.4G	Ant1	2480	0.55145	2479.6464	2480.1978	---	---

Test Graphs





2.4G-Ant1-2440



2.4G-Ant1-2480

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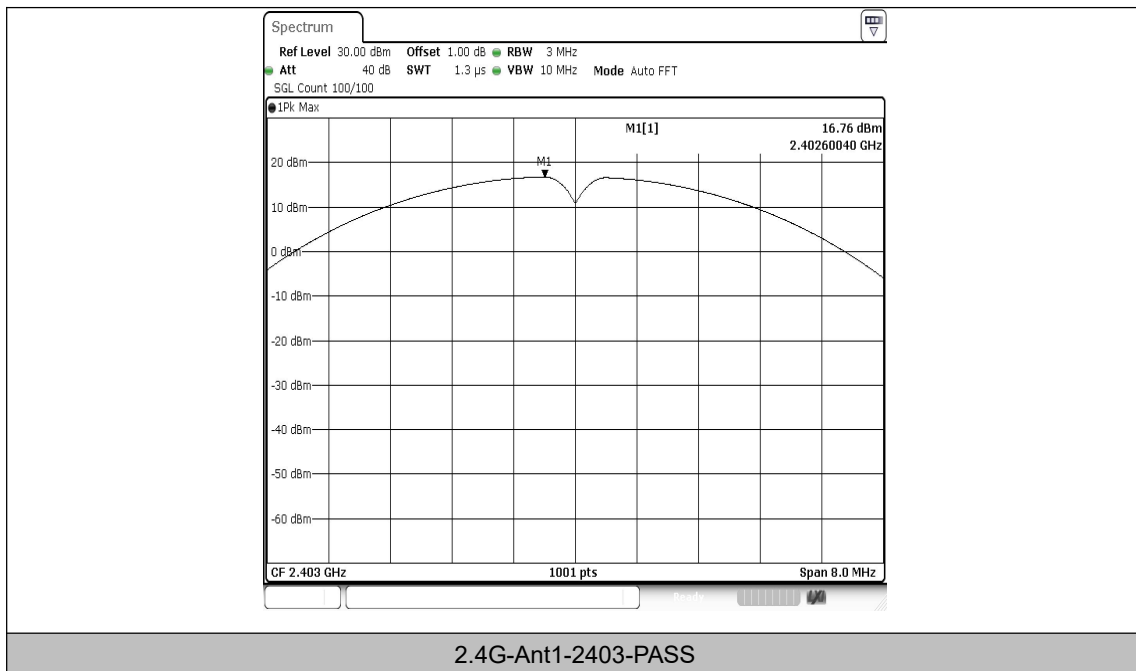
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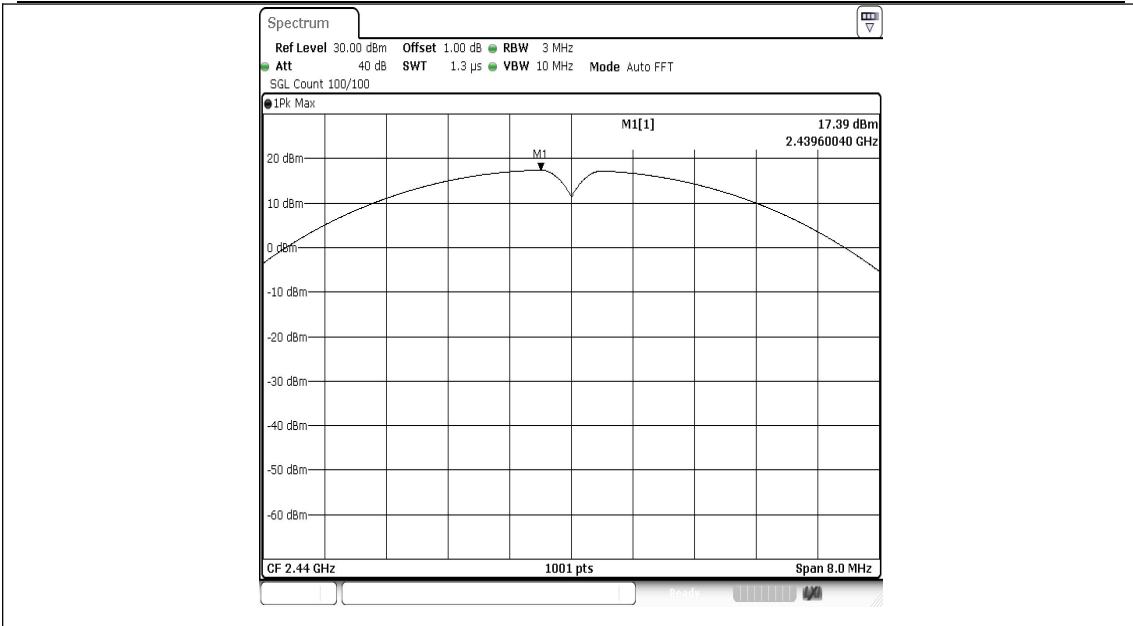
Appendix C: Maximum Conducted Output Power

Test Result Peak

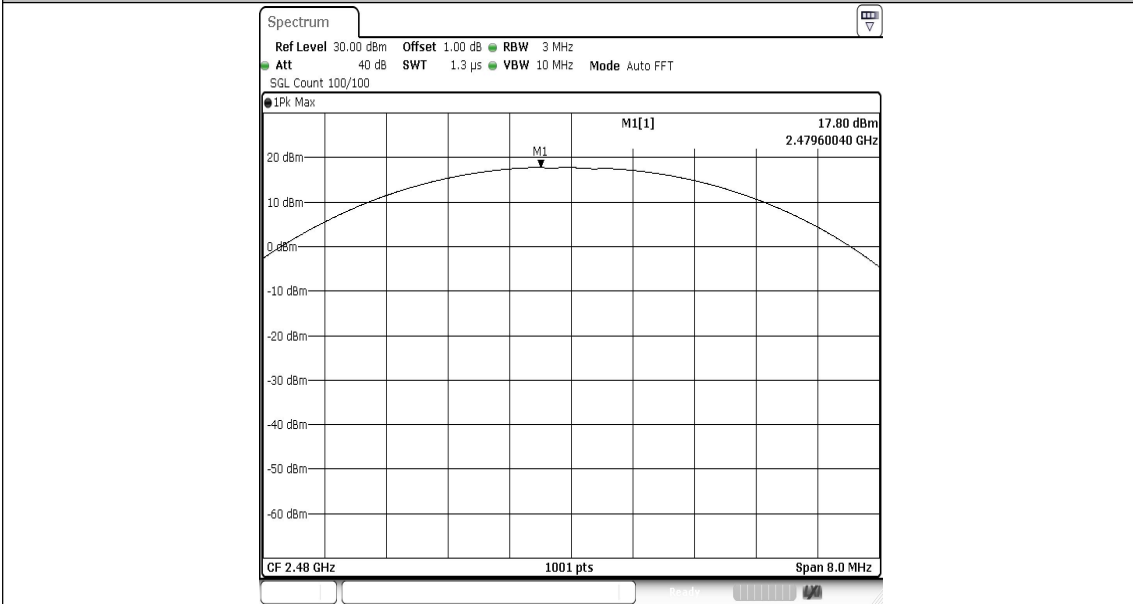
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	16.76	≤20.97	PASS
2.4G	Ant1	2440	17.39	≤20.97	PASS
2.4G	Ant1	2480	17.80	≤20.97	PASS

Test Graphs





2.4G-Ant1-2440-PASS



2.4G-Ant1-2480-PASS

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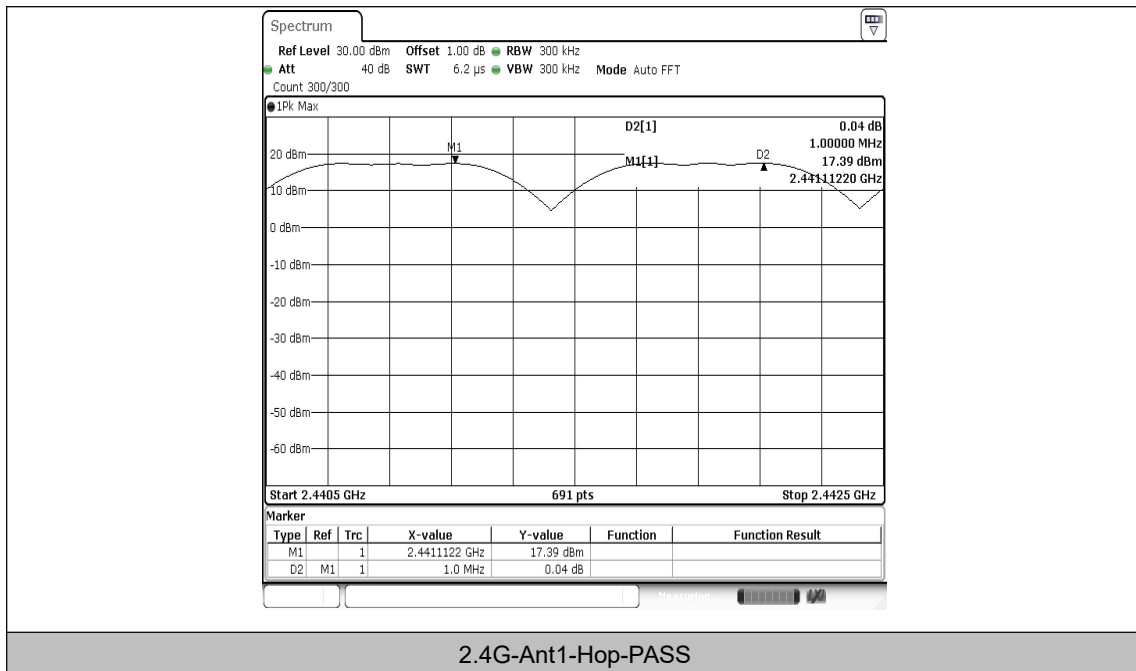
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.000	≥0.393	PASS

Test Graphs

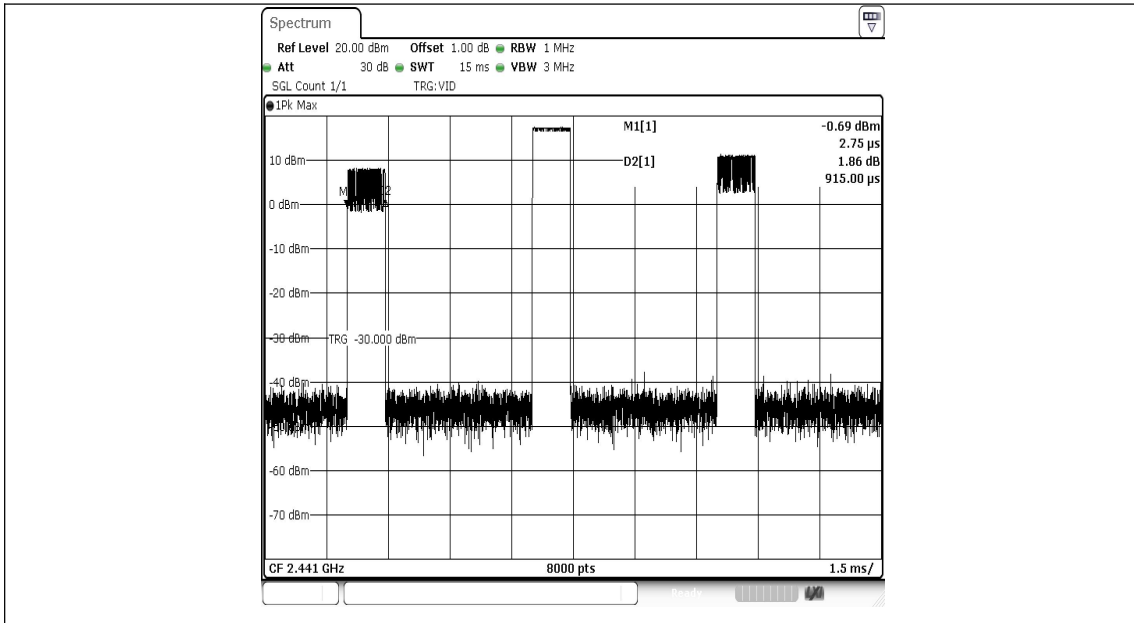


Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant1	Hop	0.915	91	0.083	≤0.4	PASS

Test Graphs



2.4G-Ant1-Hop-PASS

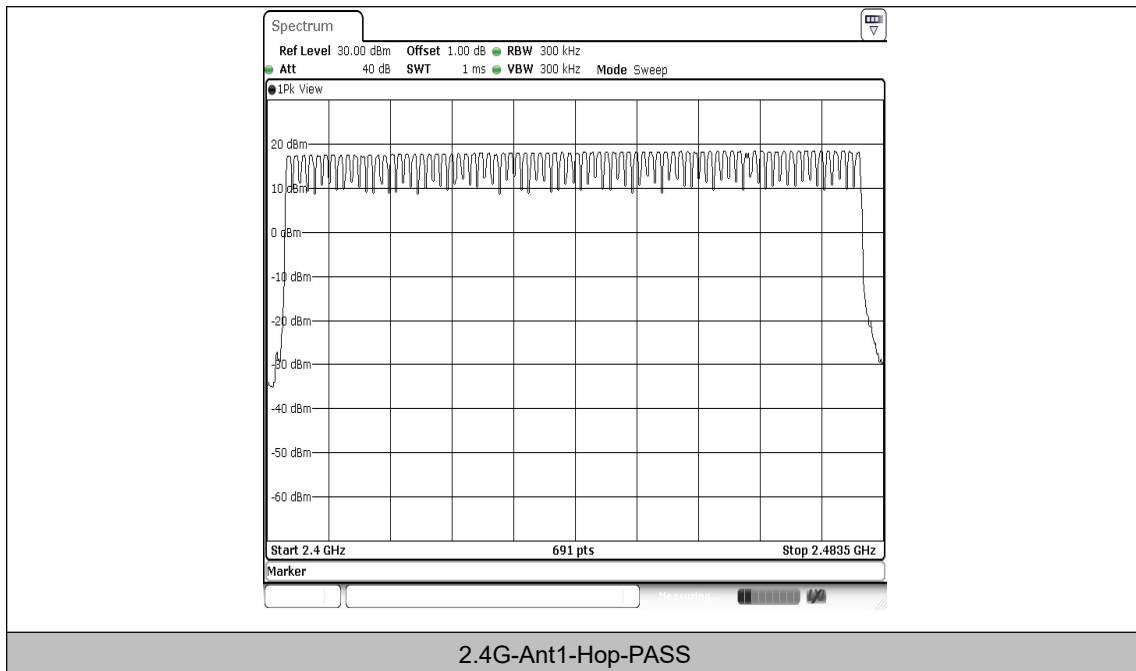


Appendix F: Number of Hopping Channel

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
2.4G	Ant1	Hop	78	≥15	PASS

Test Graphs



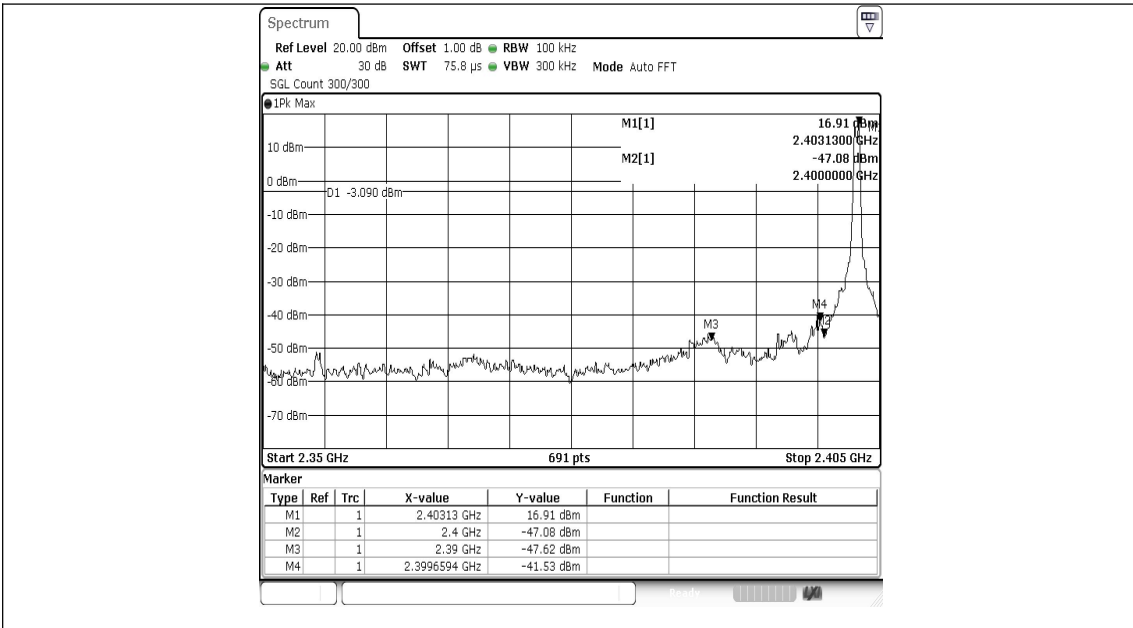
Appendix G: Conducted Band edge

Test Result

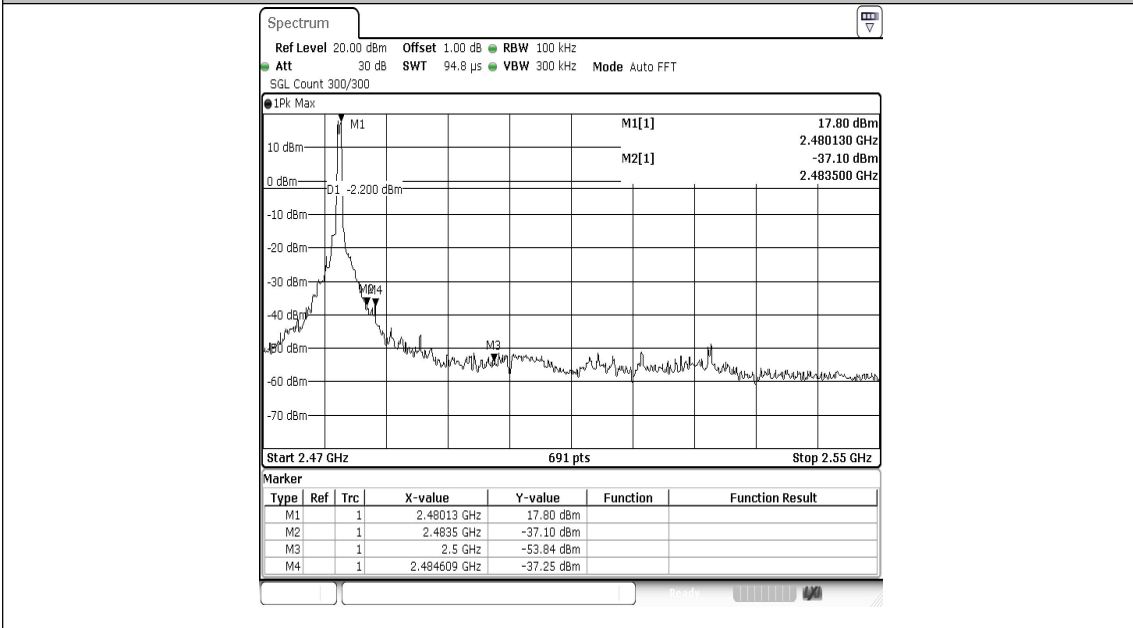
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	16.91	-41.53	≤-3.09	PASS
2.4G	Ant1	High	2480	17.80	-37.25	≤-2.2	PASS
2.4G	Ant1	Low	Hop_2403	14.60	-44.62	≤-5.4	PASS
2.4G	Ant1	High	Hop_2480	17.68	-39.89	≤-2.32	PASS

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.

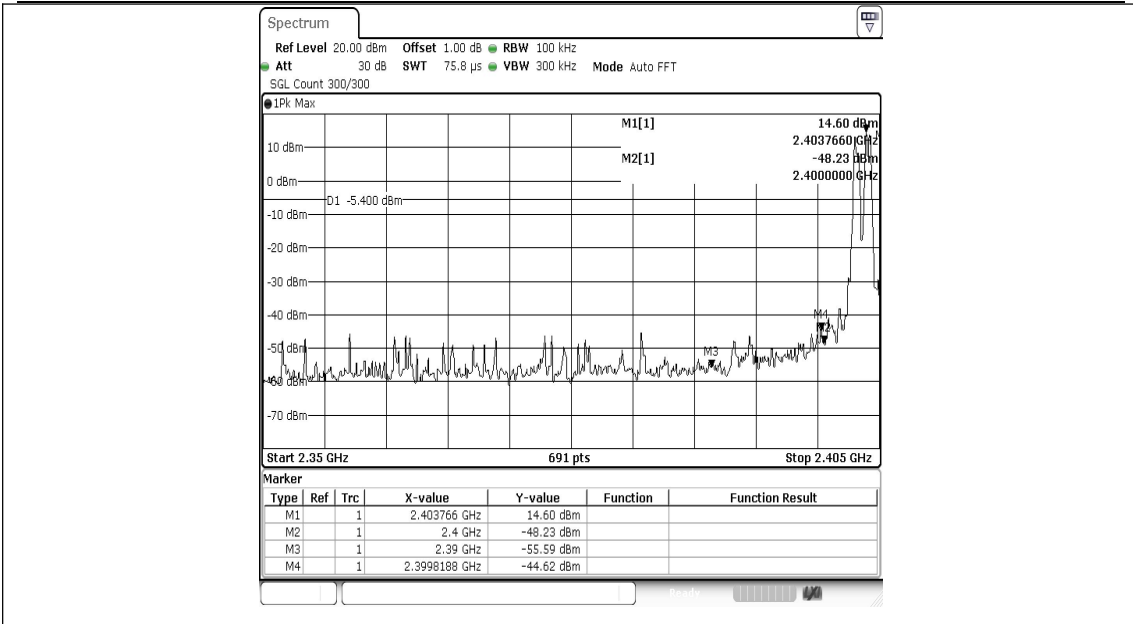
Test Graphs



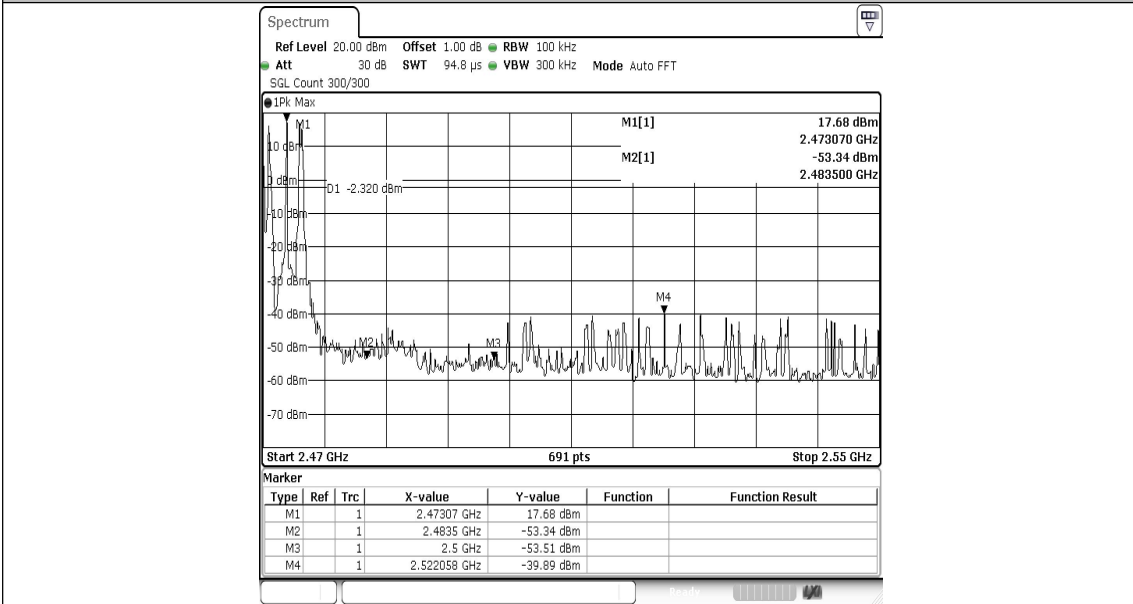
2.4G-Ant1-2403-PASS



2.4G-Ant1-2480-PASS



2.4G-Ant1-Hop_2403-PASS



2.4G-Ant1-Hop_2480-PASS

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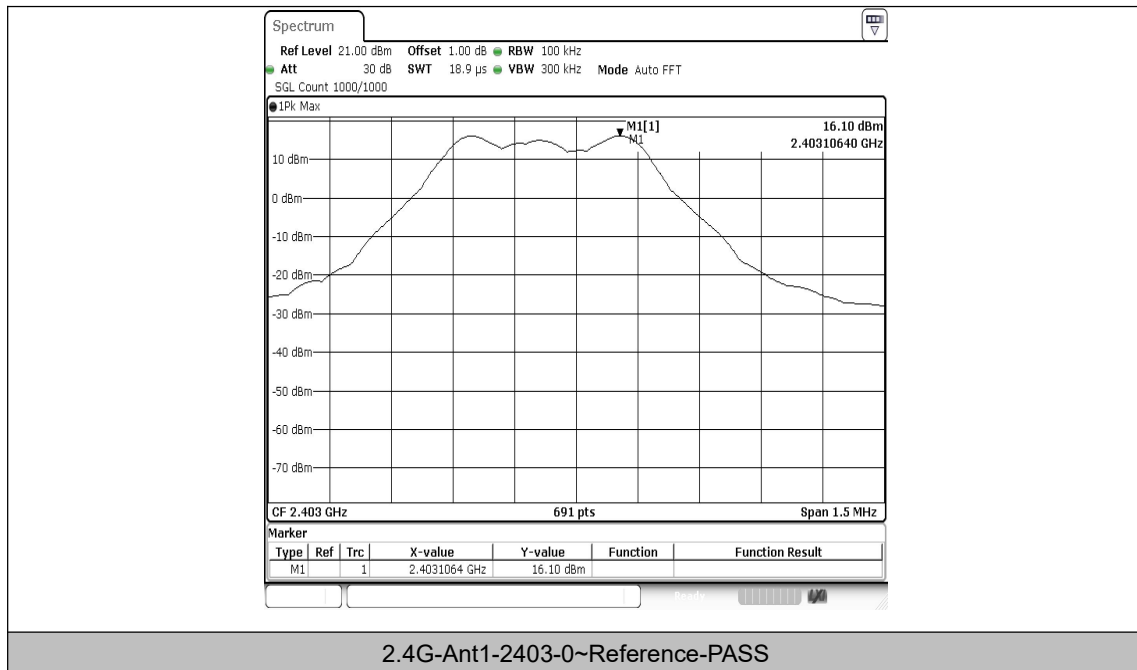
Appendix H: Conducted Spurious Emission

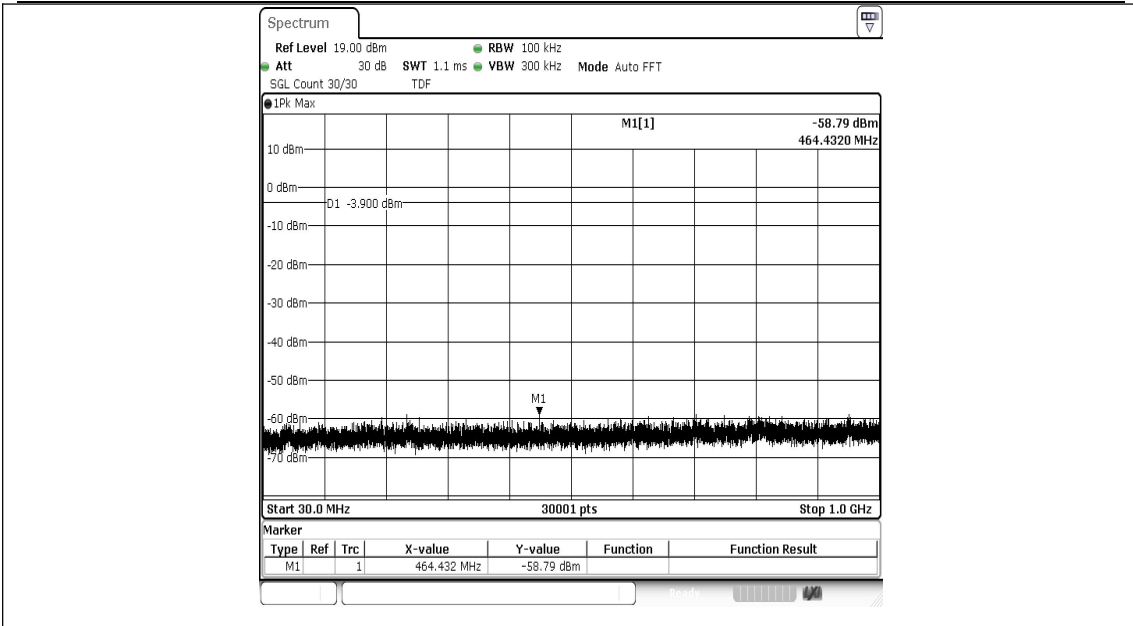
Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	0~Reference	16.10	16.10	---	PASS
2.4G	Ant1	2403	30~1000	16.10	-58.79	≤-3.9	PASS
2.4G	Ant1	2403	1000~26500	16.10	-38.72	≤-3.9	PASS
2.4G	Ant1	2440	0~Reference	17.29	17.29	---	PASS
2.4G	Ant1	2440	30~1000	17.29	-57.8	≤-2.71	PASS
2.4G	Ant1	2440	1000~26500	17.29	-40.73	≤-2.71	PASS
2.4G	Ant1	2480	0~Reference	17.73	17.73	---	PASS
2.4G	Ant1	2480	30~1000	17.73	-58.82	≤-2.27	PASS
2.4G	Ant1	2480	1000~26500	17.73	-43.19	≤-2.27	PASS

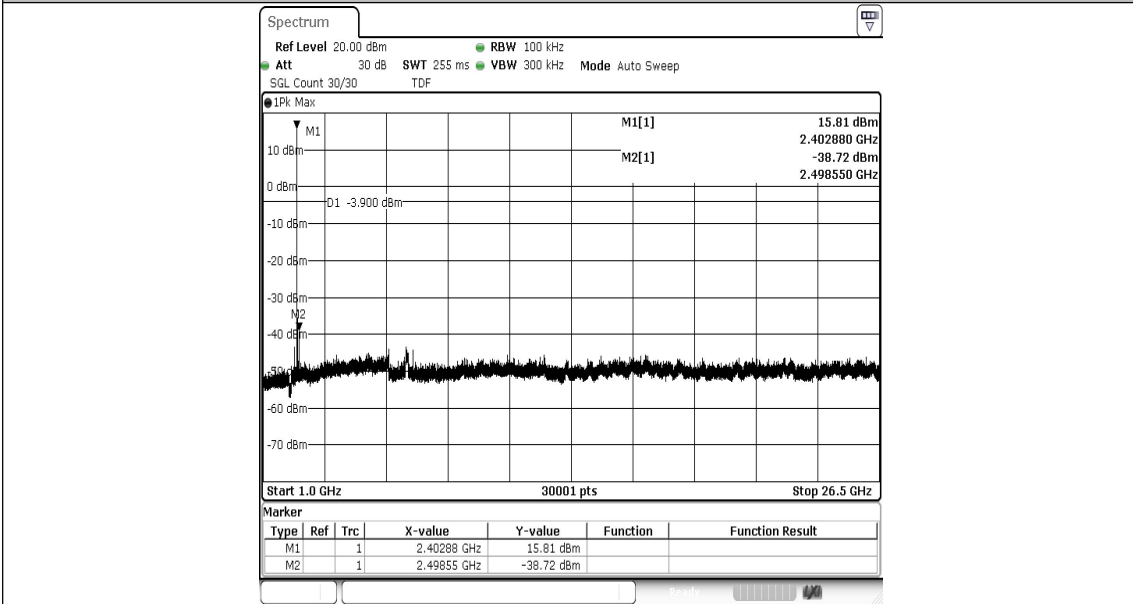
Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'TDF' of the Spectrum Analyzer during the test.

Test Graphs





2.4G-Ant1-2403-30~100-PASS

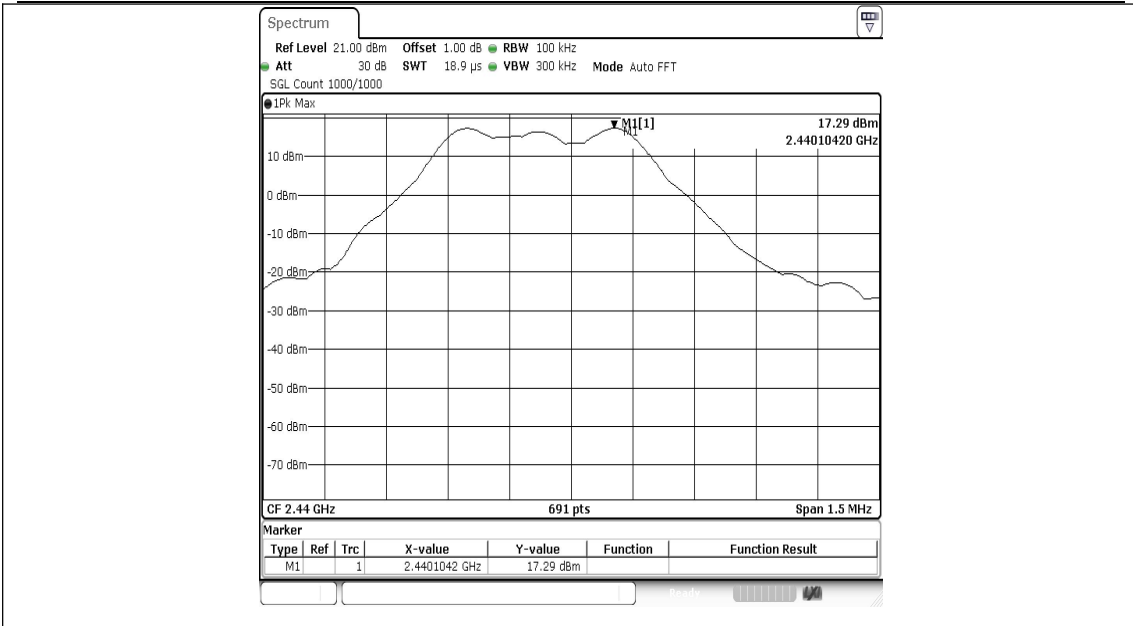


2.4G-Ant1-2403-1000~2650-PASS

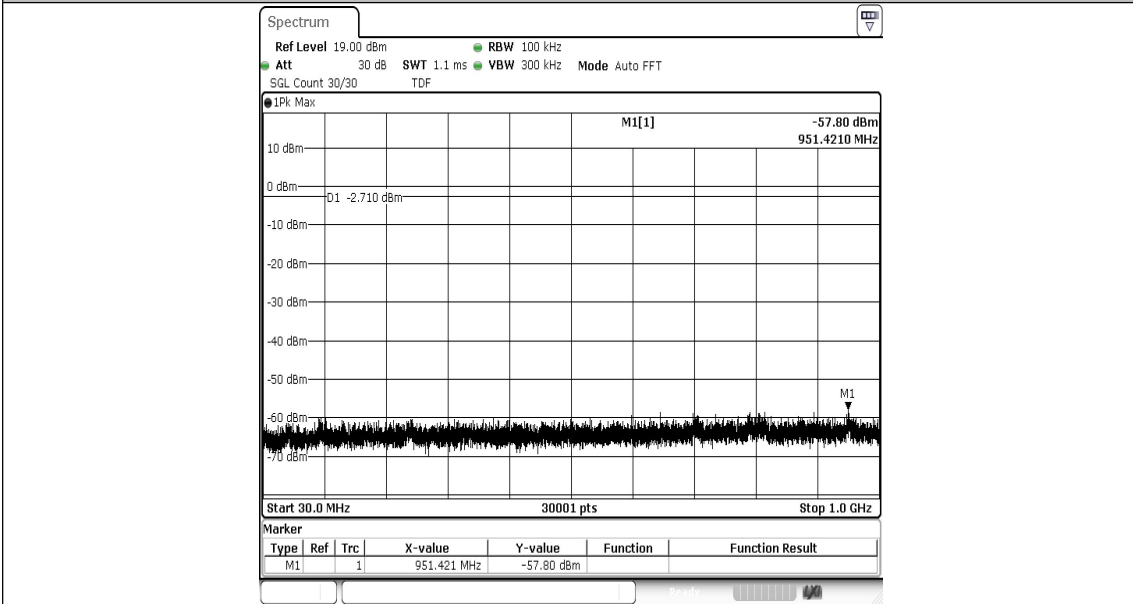
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2.4G-Ant1-2440-0~Reference-PASS

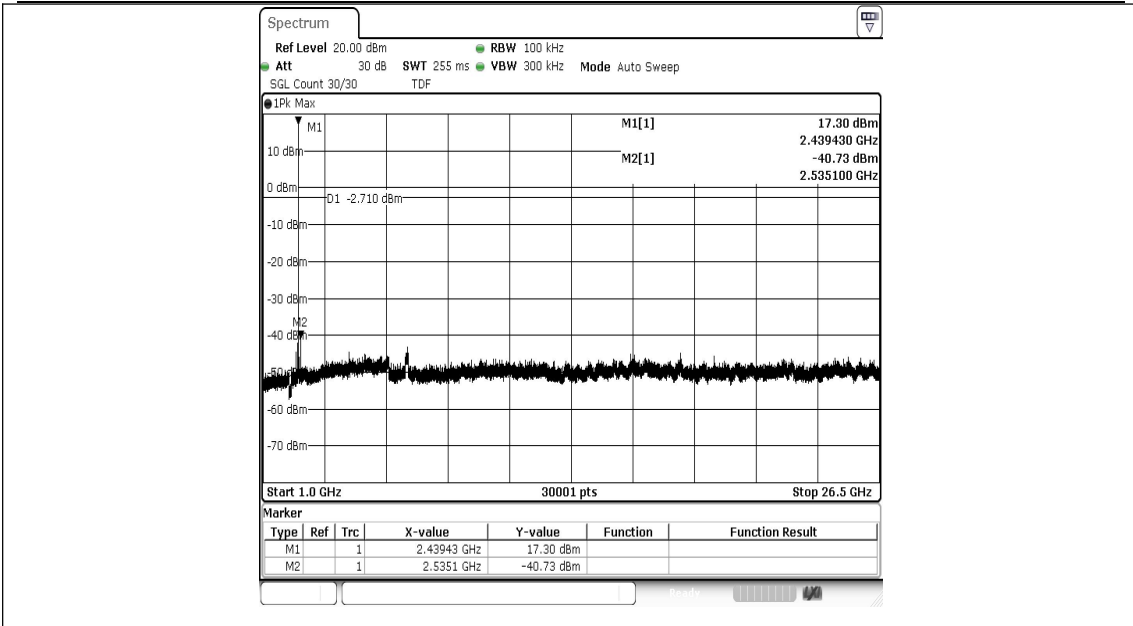


2.4G-Ant1-2440-30~1000-PASS

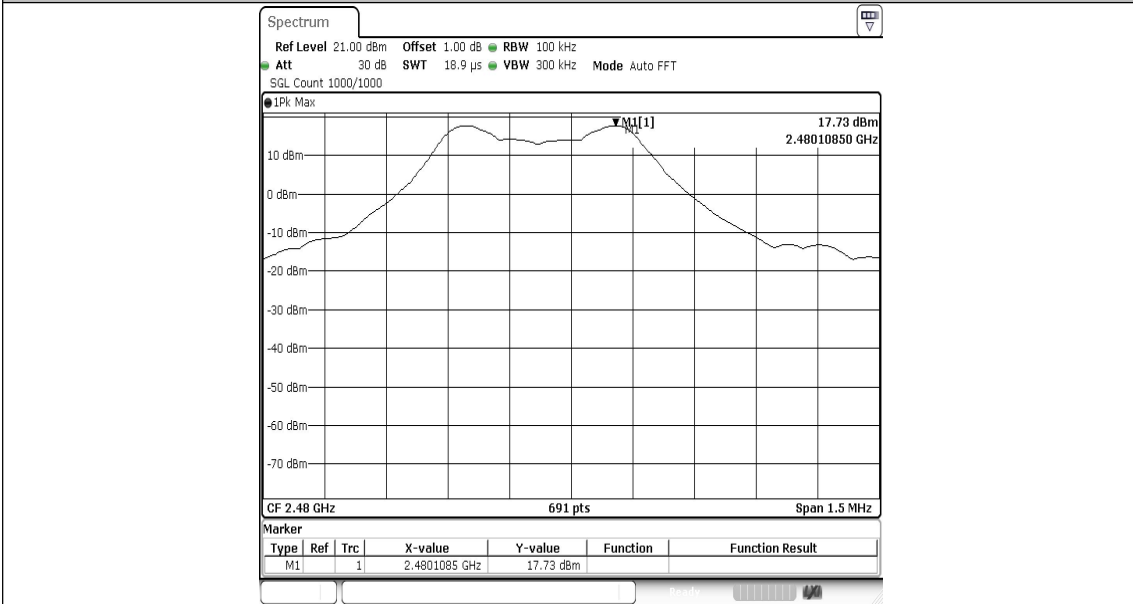
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2.4G-Ant1-2440-1000~26500-PASS

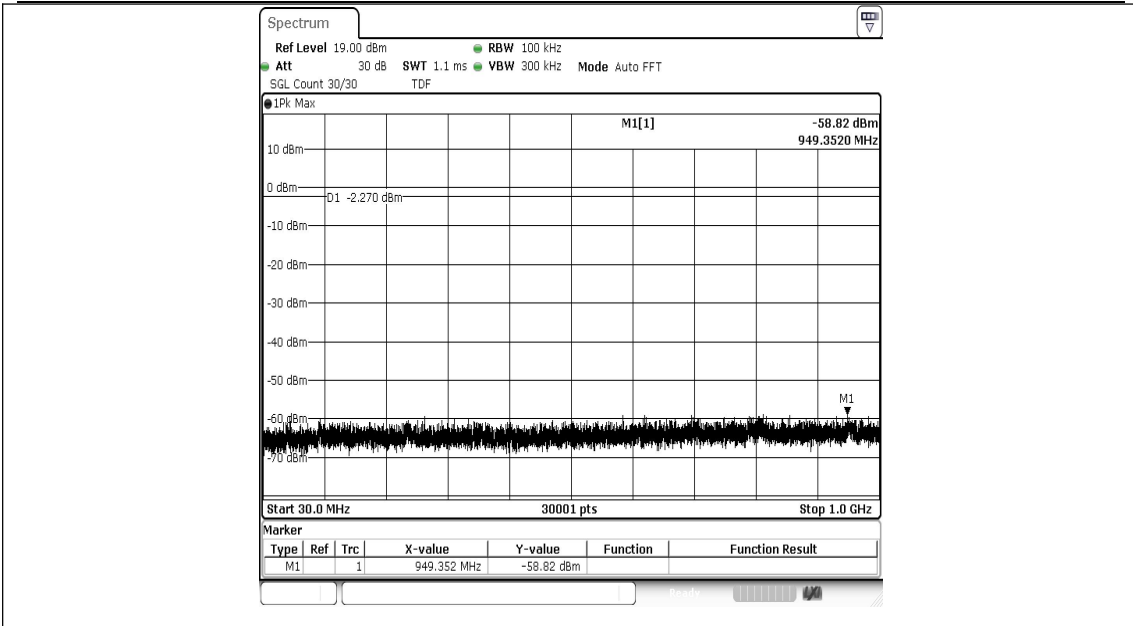


2.4G-Ant1-2480-0~Reference-PASS

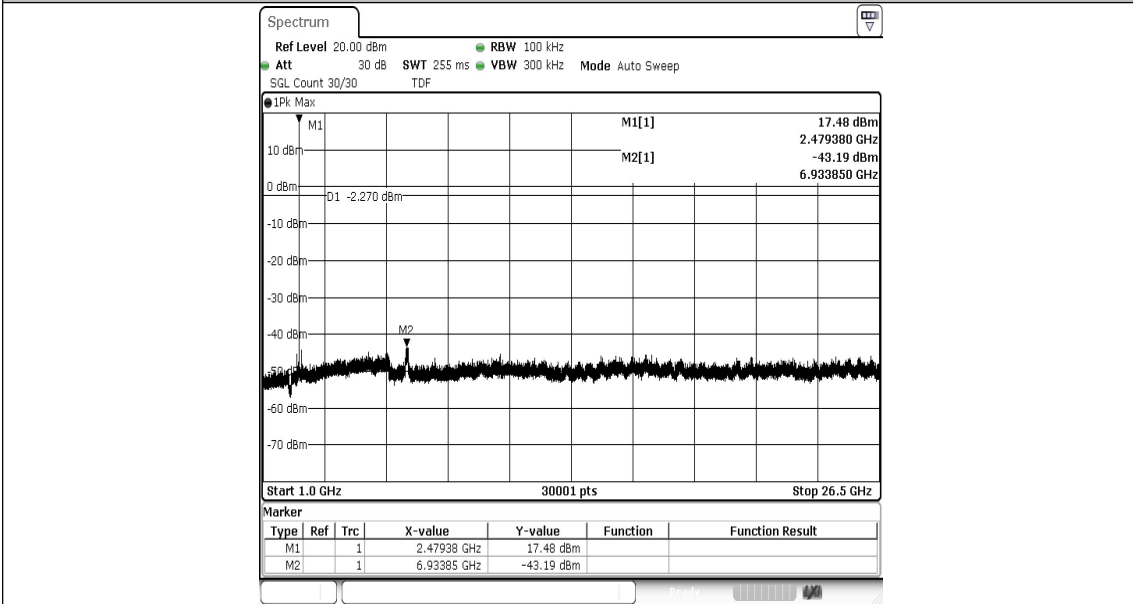
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2.4G-Ant1-2480-30~100-PASS



2.4G-Ant1-2480-1000~2650-PASS

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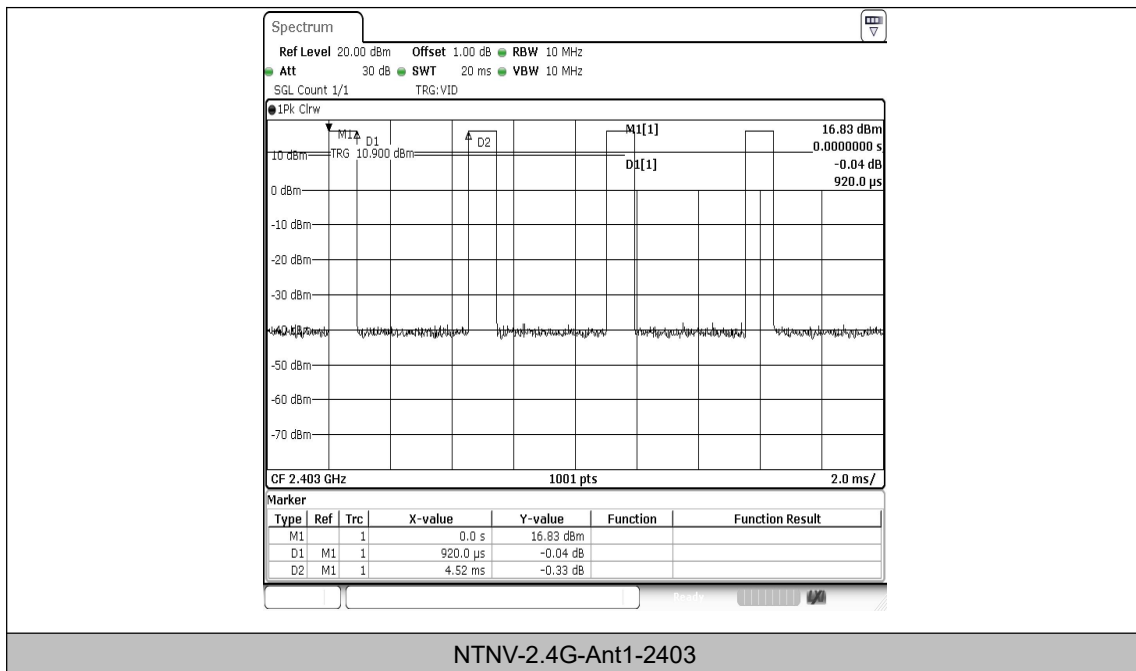
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Appendix I: Duty Cycle

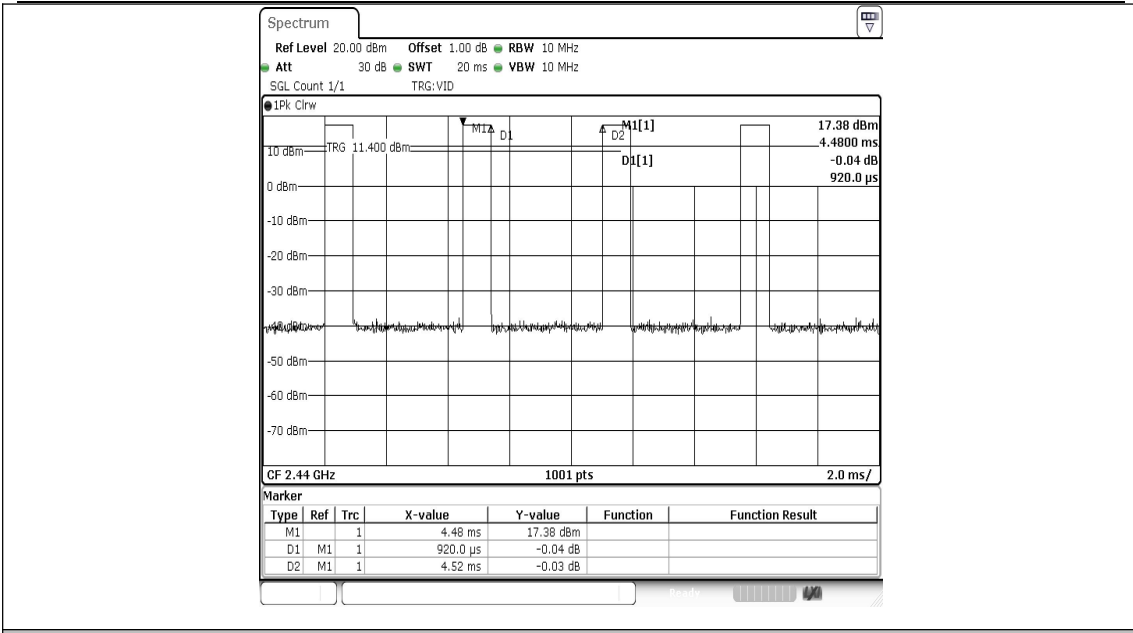
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.92	4.52	20.35	6.91
2.4G	Ant1	2440	0.92	4.52	20.35	6.91
2.4G	Ant1	2480	0.92	4.54	20.26	6.93

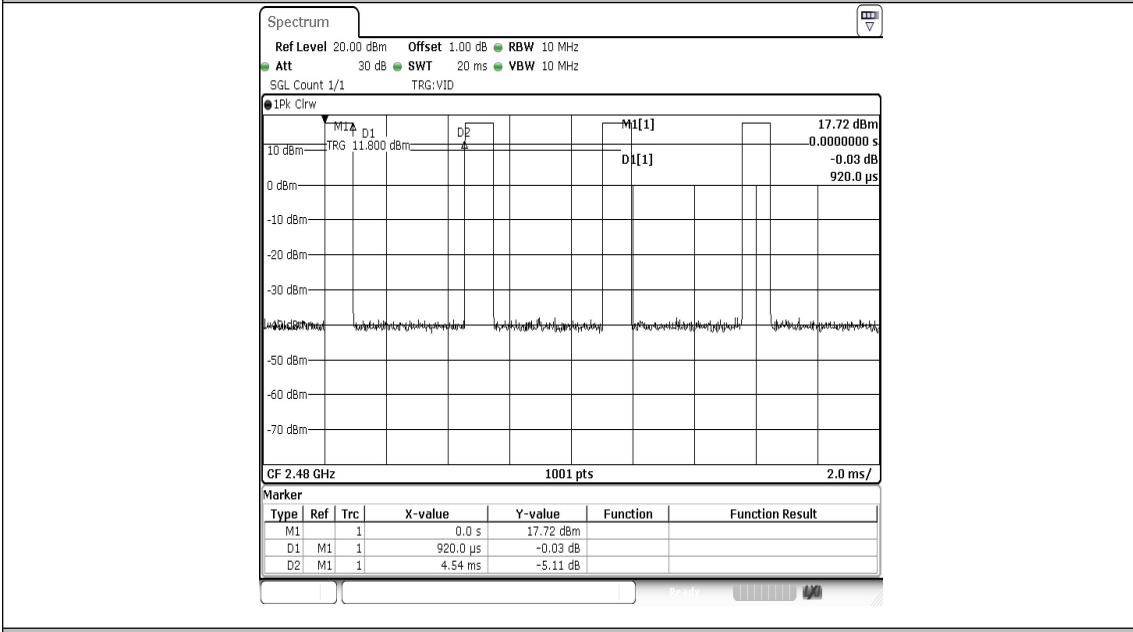
Test Graphs



NTNV-2.4G-Ant1-2403



NTNV-2.4G-Ant1-2440



NTNV-2.4G-Ant1-2480

---End---