

Appendix Test Data_ANT1

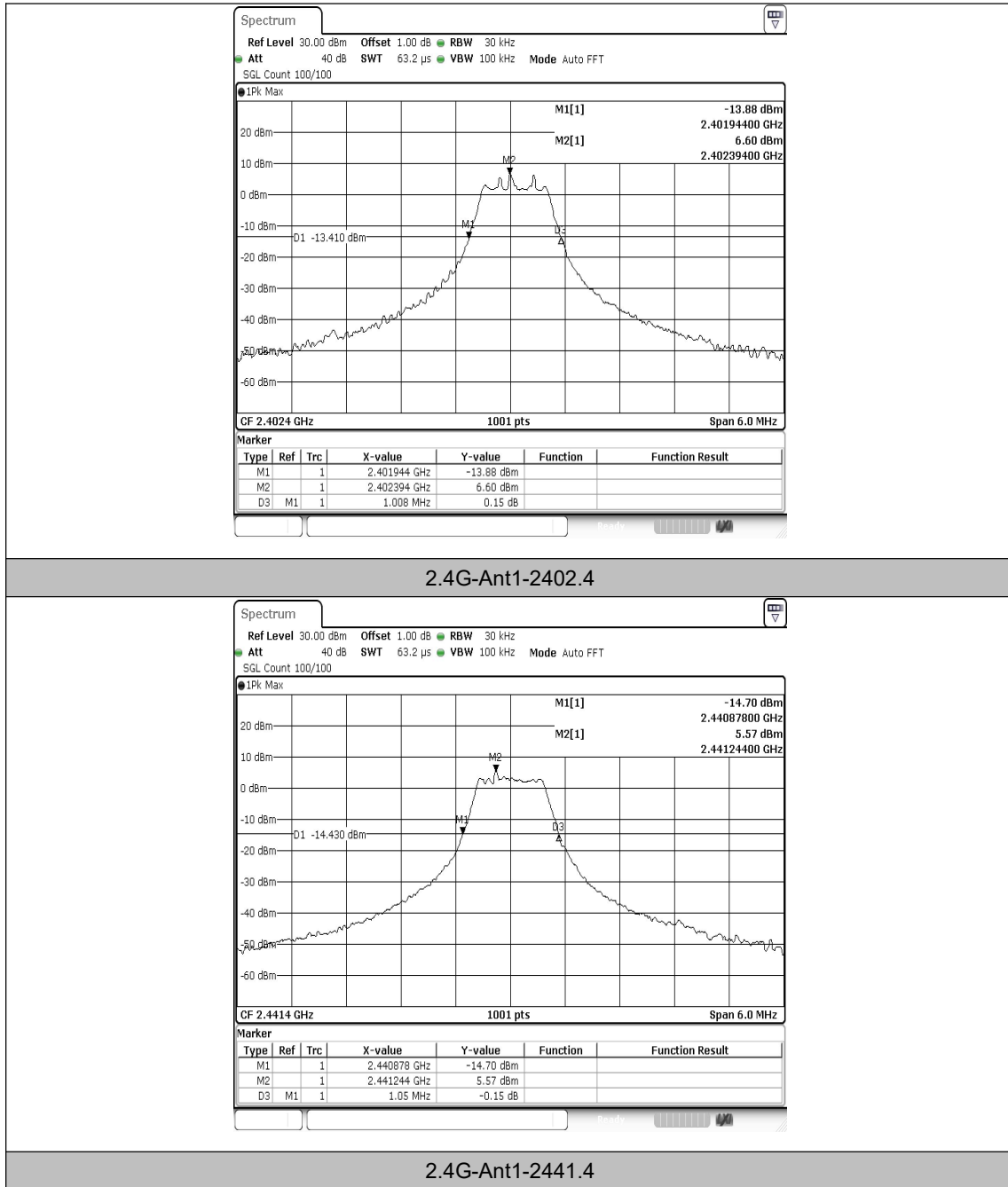
Report No.:	1812C50320412502	Test Sample No.:	1-2-2
Start Test Date:	2025-6-27	Finish Test Date:	2025-9-2
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.9℃	Relative Humidity:	60%
Pressure:	101kPa		

Appendix A: 20dB Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2402.4	1.01	2401.94	2402.95	---	---
2.4G	Ant1	2441.4	1.05	2440.88	2441.93	---	---
2.4G	Ant1	2479.4	1.09	2478.88	2479.96	---	---

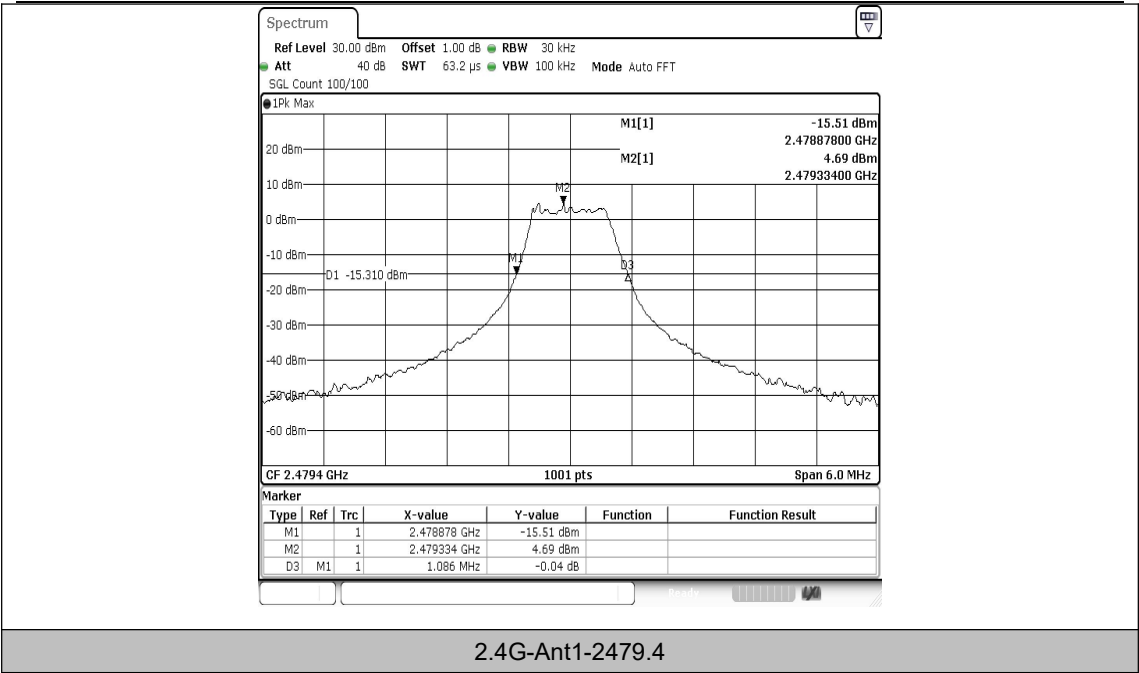
Test Graphs



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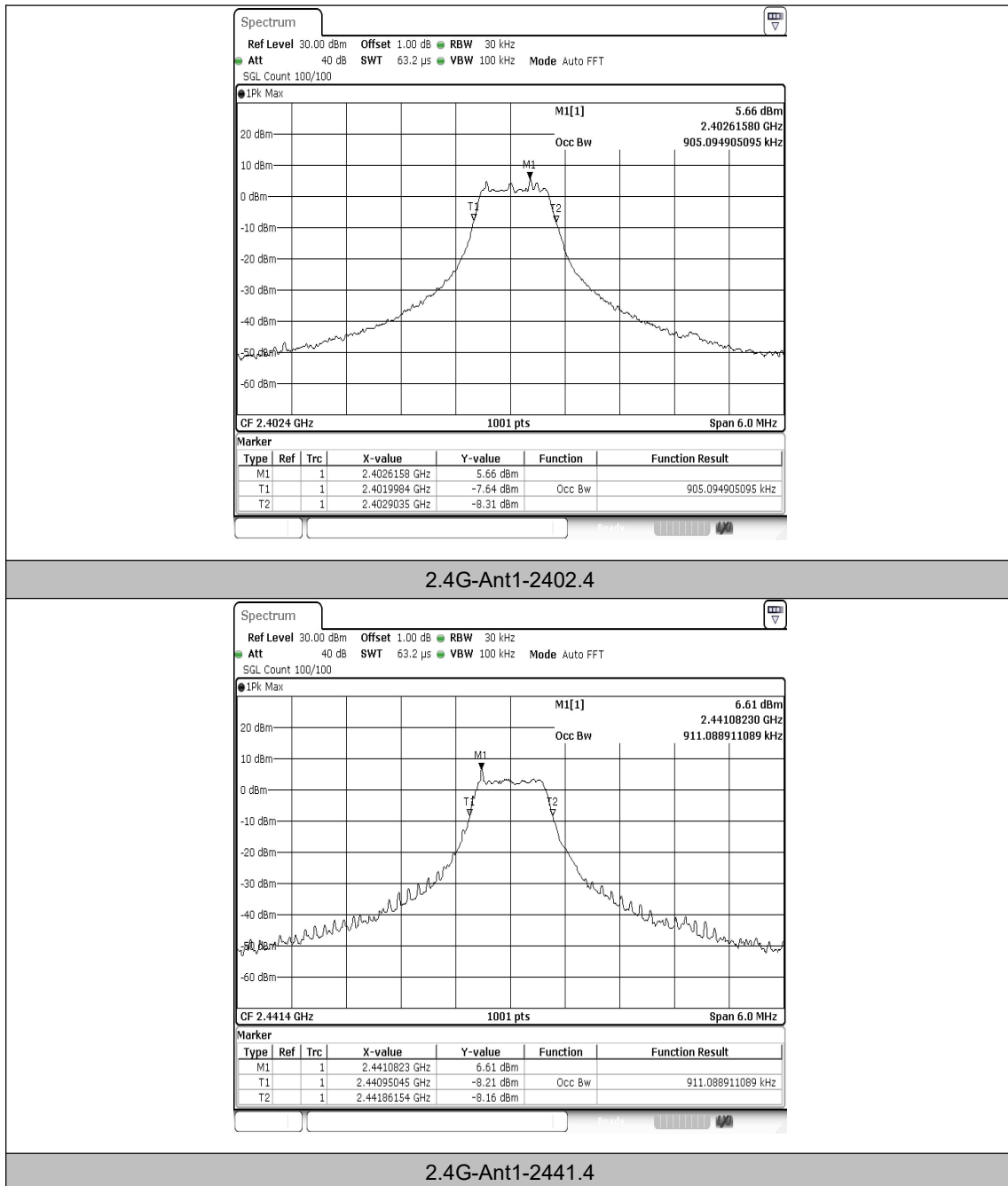
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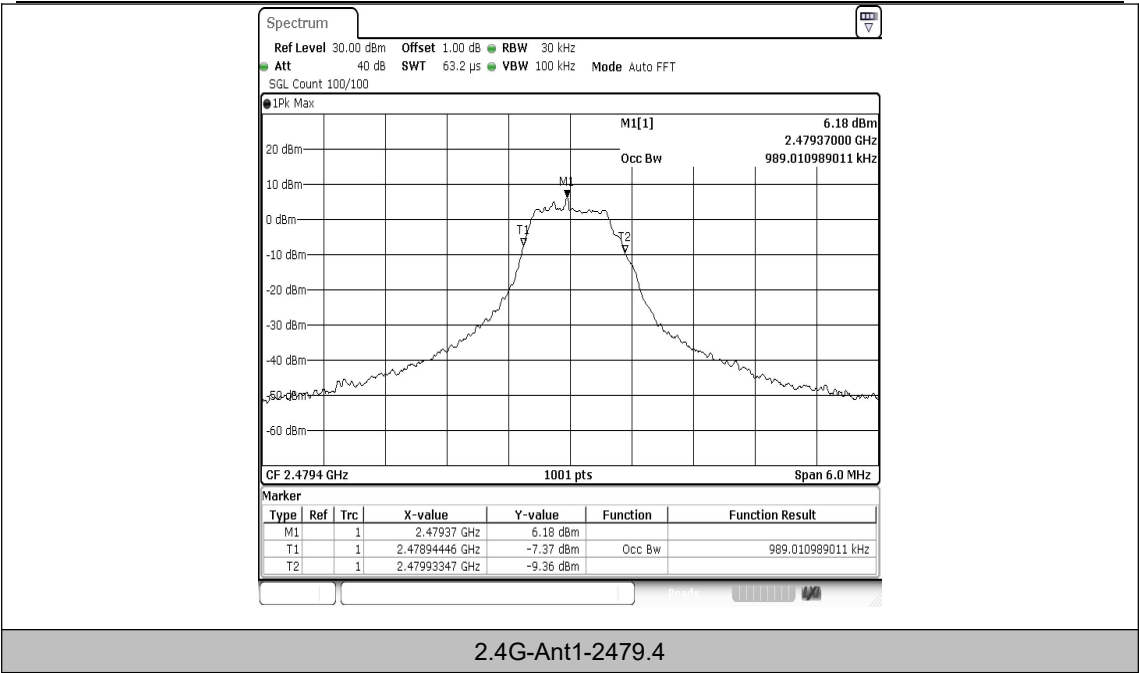
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2402.4	0.90509	2401.9984	2402.9035	---	---
2.4G	Ant1	2441.4	0.91109	2440.9504	2441.8615	---	---
2.4G	Ant1	2479.4	0.98901	2478.9445	2479.9335	---	---

Test Graphs





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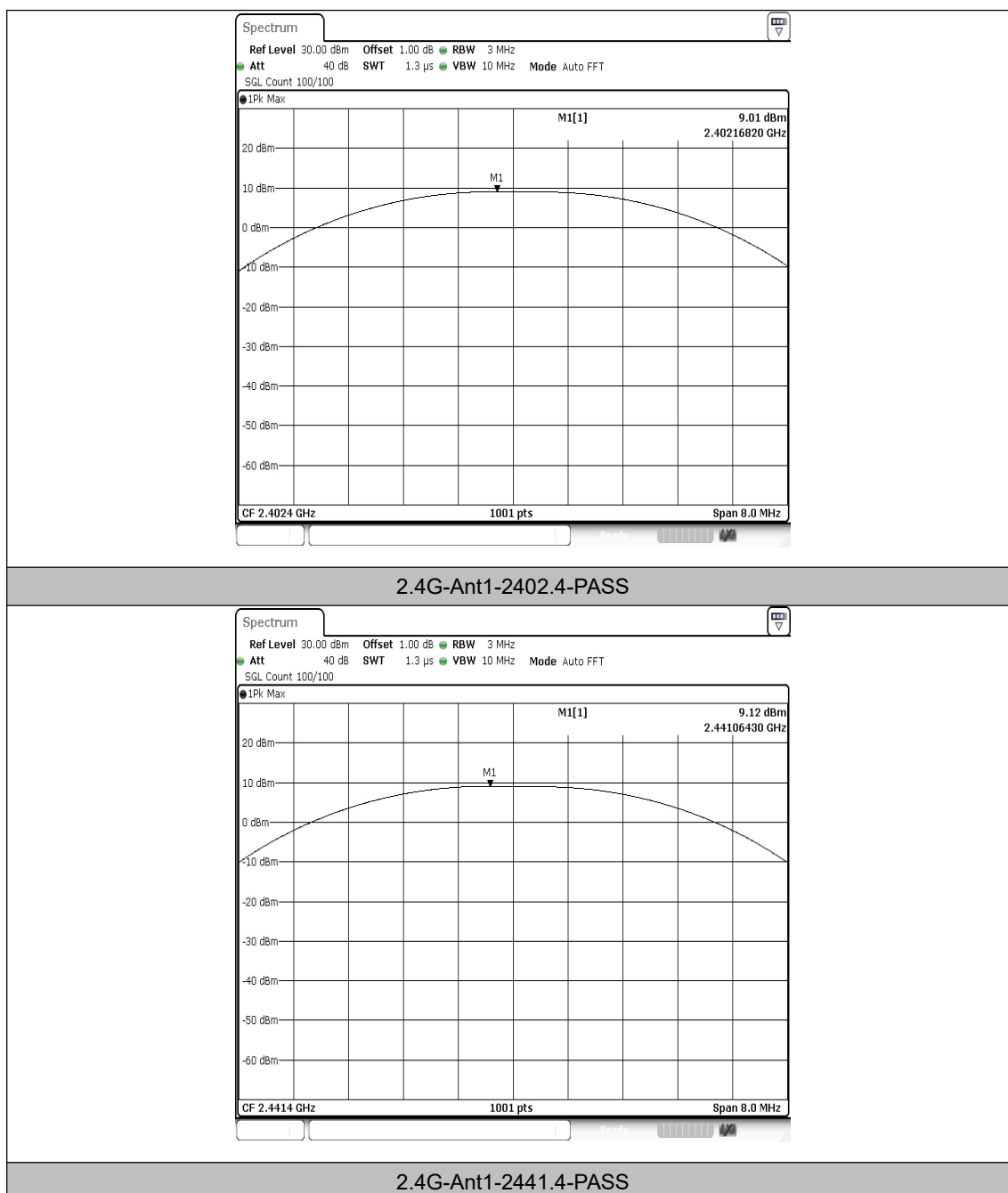
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Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2402.4	9.01	≤20.97	PASS
2.4G	Ant1	2441.4	9.12	≤20.97	PASS
2.4G	Ant1	2479.4	9.31	≤20.97	PASS

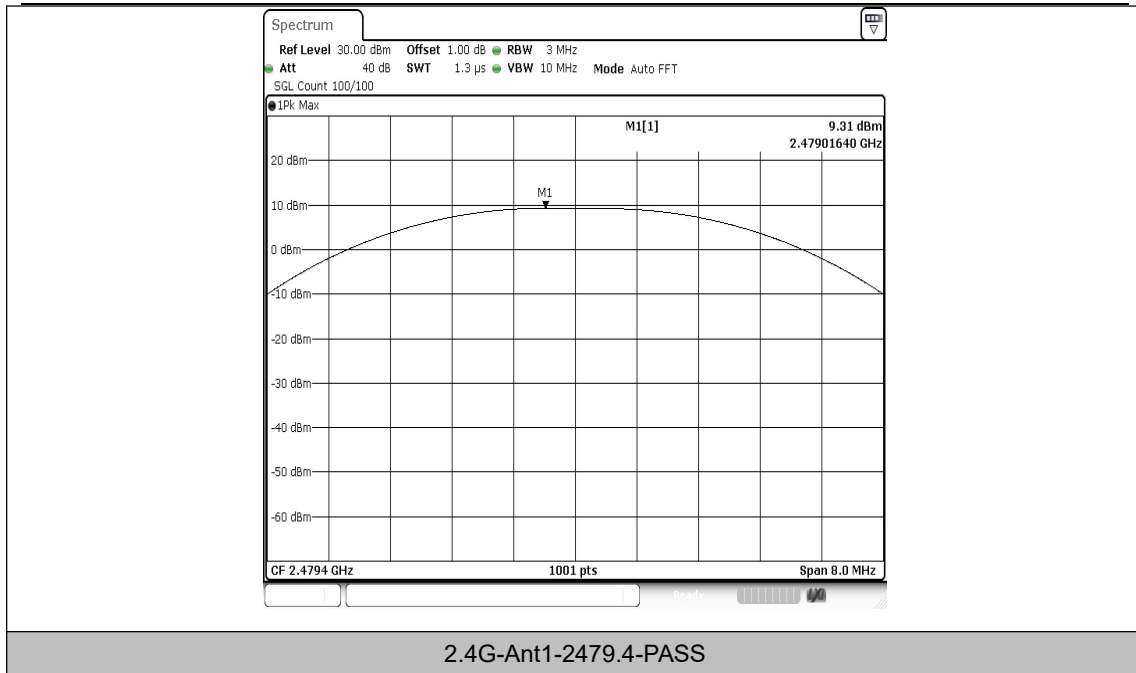
Test Graphs



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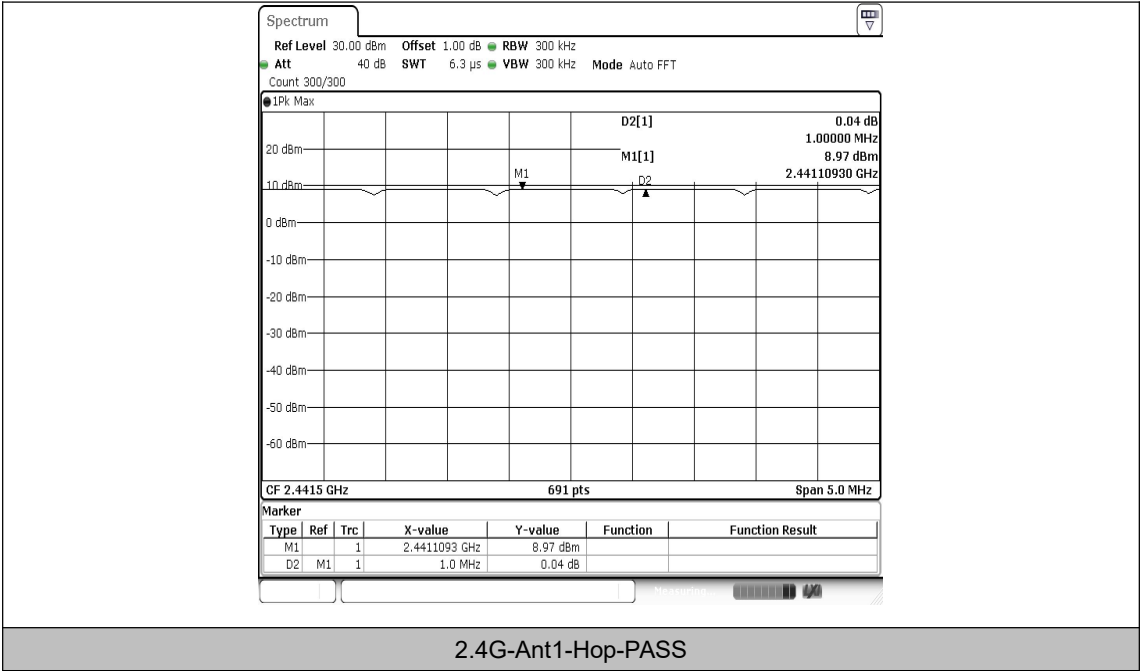
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.000	≥0.727	PASS

Test Graphs

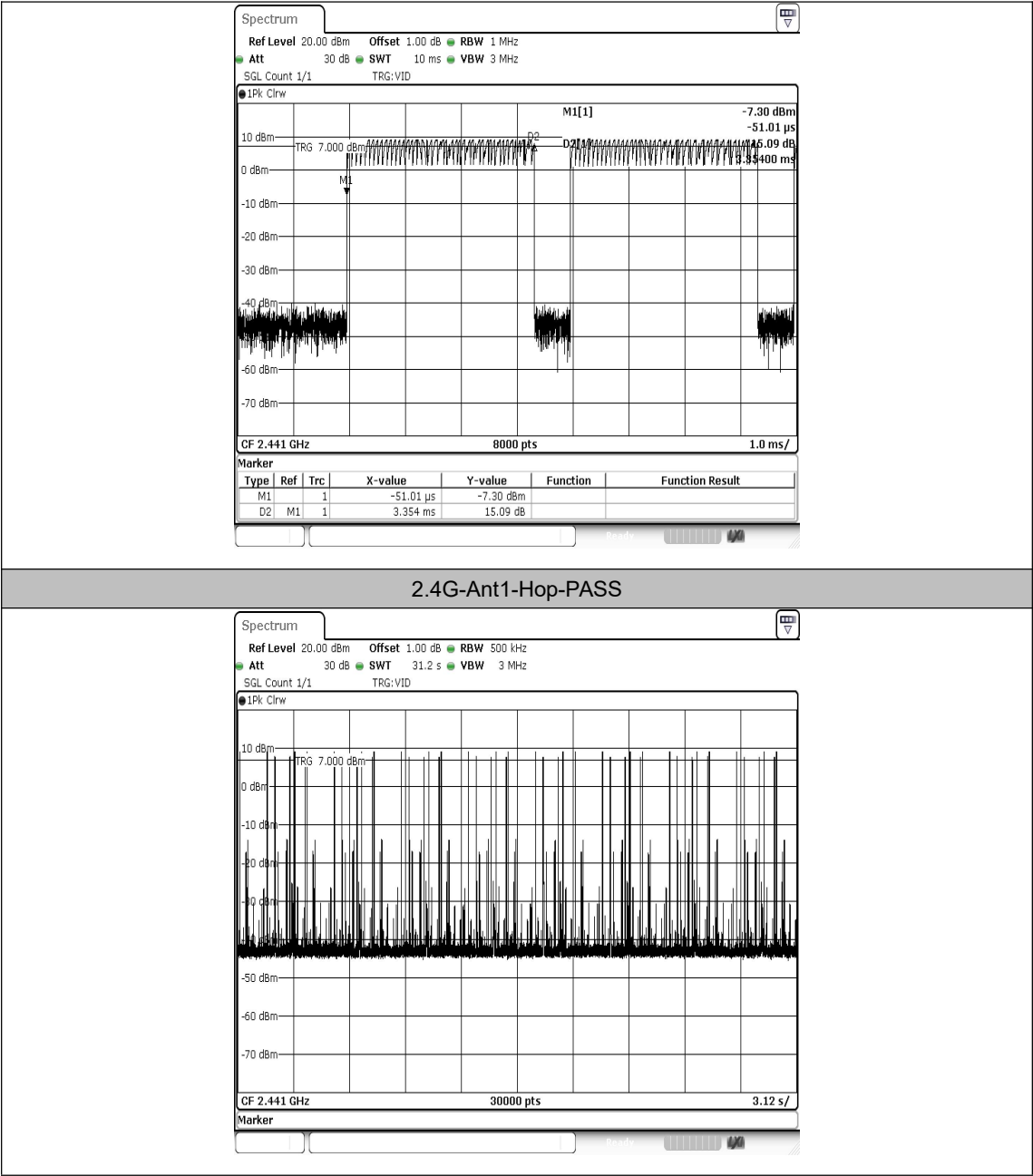


Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant1	Hop	3.354	50	0.168	≤0.4	PASS

Test Graphs

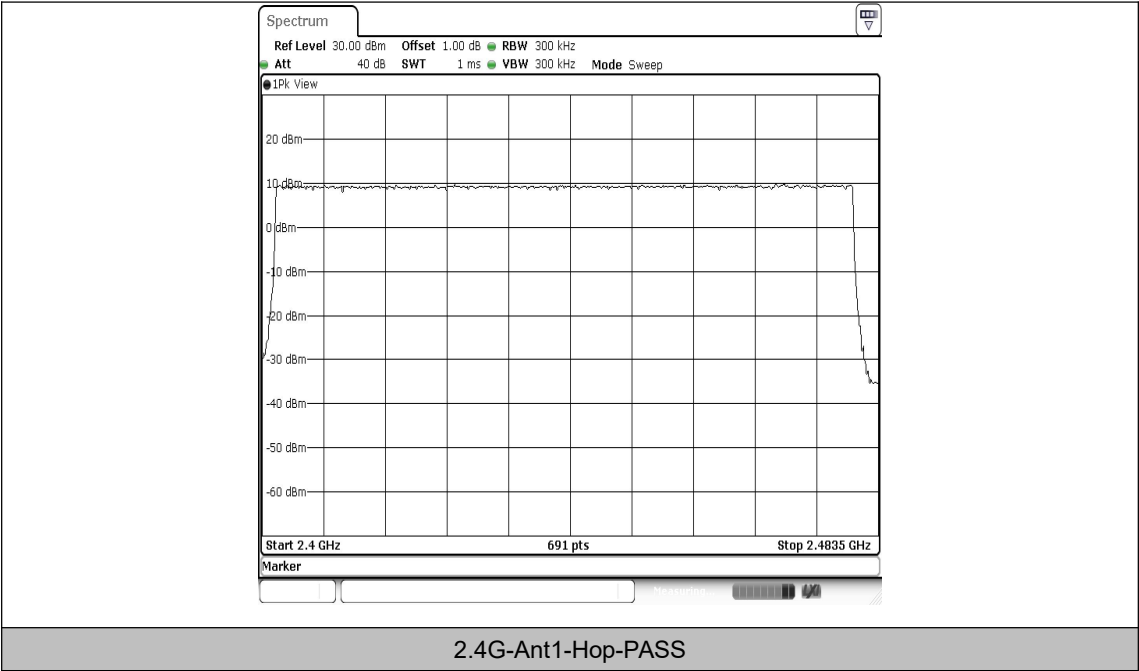


Appendix F: Number of Hopping Channel

Test Result

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

Test Graphs



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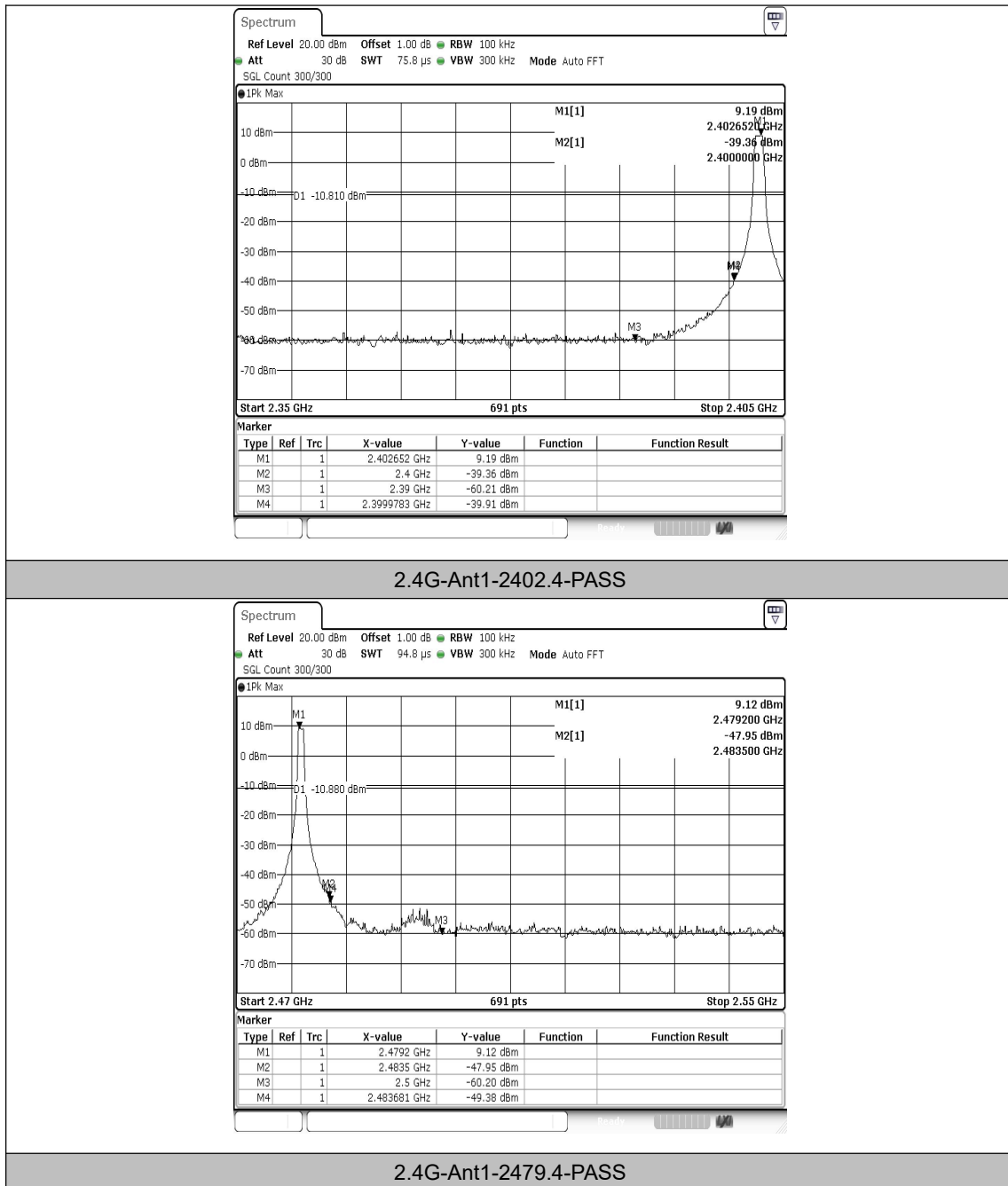
Appendix G: Conducted Band edge

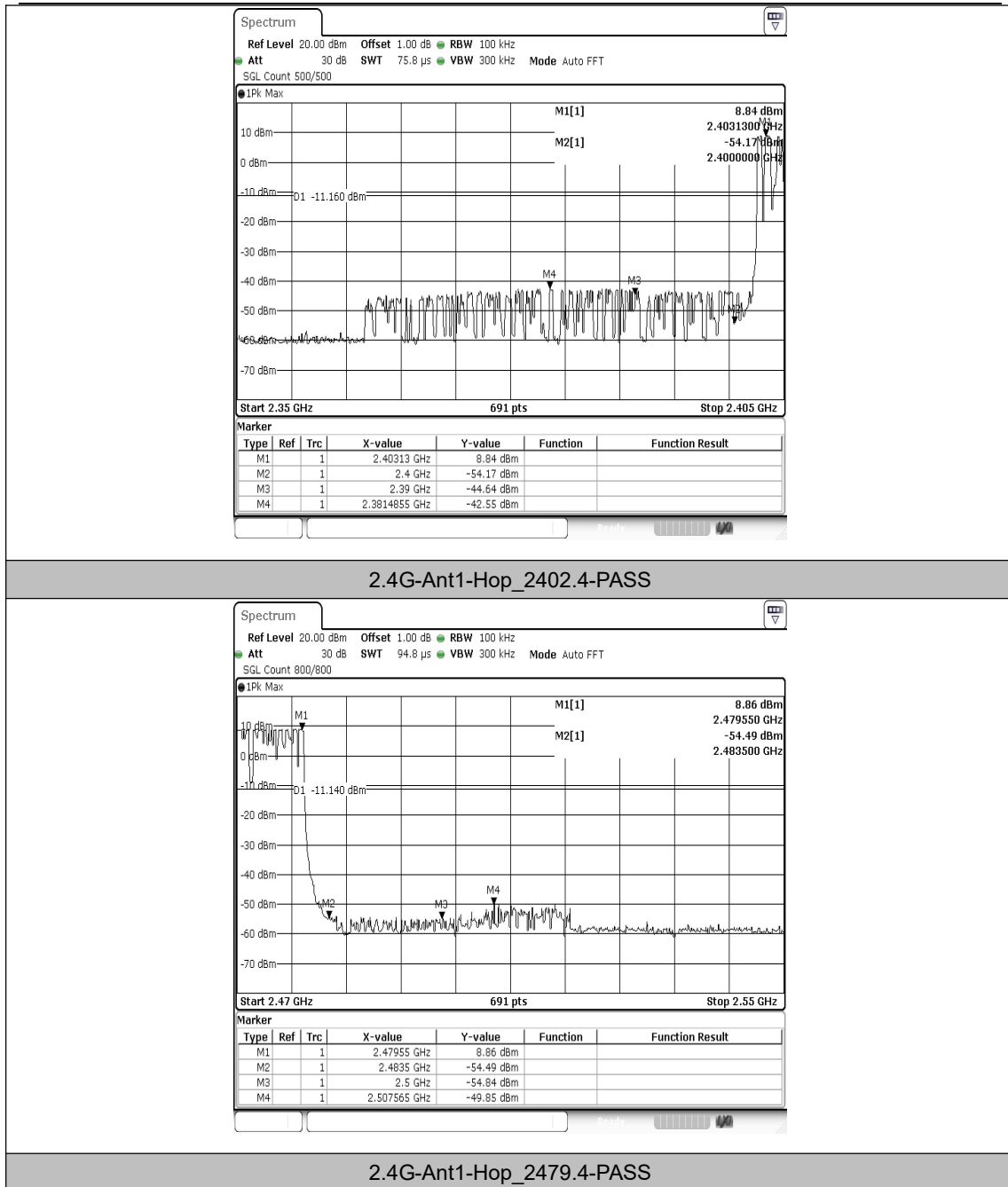
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402.4	9.19	-39.91	≤-10.81	PASS
2.4G	Ant1	High	2479.4	9.12	-49.38	≤-10.88	PASS
2.4G	Ant1	Low	Hop_2402.4	8.84	-42.55	≤-11.16	PASS
2.4G	Ant1	High	Hop_2479.4	8.86	-49.85	≤-11.14	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





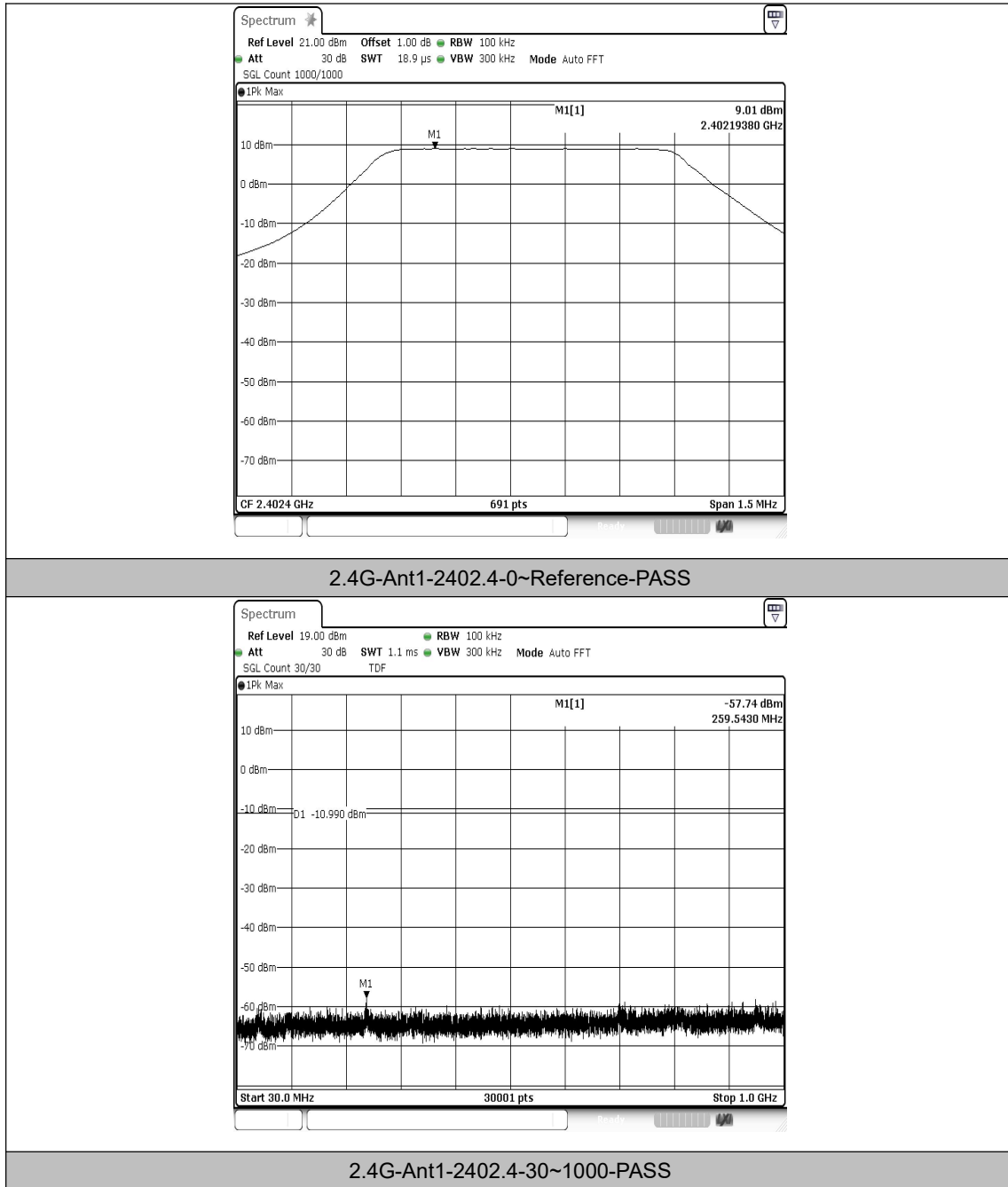
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402.4	0~Reference	9.01	9.01	---	PASS
2.4G	Ant1	2402.4	30~1000	9.01	-57.74	≤-10.99	PASS
2.4G	Ant1	2402.4	1000~26500	9.01	-39.06	≤-10.99	PASS
2.4G	Ant1	2441.4	0~Reference	8.88	8.88	---	PASS
2.4G	Ant1	2441.4	30~1000	8.88	-57.74	≤-11.12	PASS
2.4G	Ant1	2441.4	1000~26500	8.88	-42.06	≤-11.12	PASS
2.4G	Ant1	2479.4	0~Reference	9.06	9.06	---	PASS
2.4G	Ant1	2479.4	30~1000	9.06	-57.92	≤-10.94	PASS
2.4G	Ant1	2479.4	1000~26500	9.06	-43.71	≤-10.94	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.

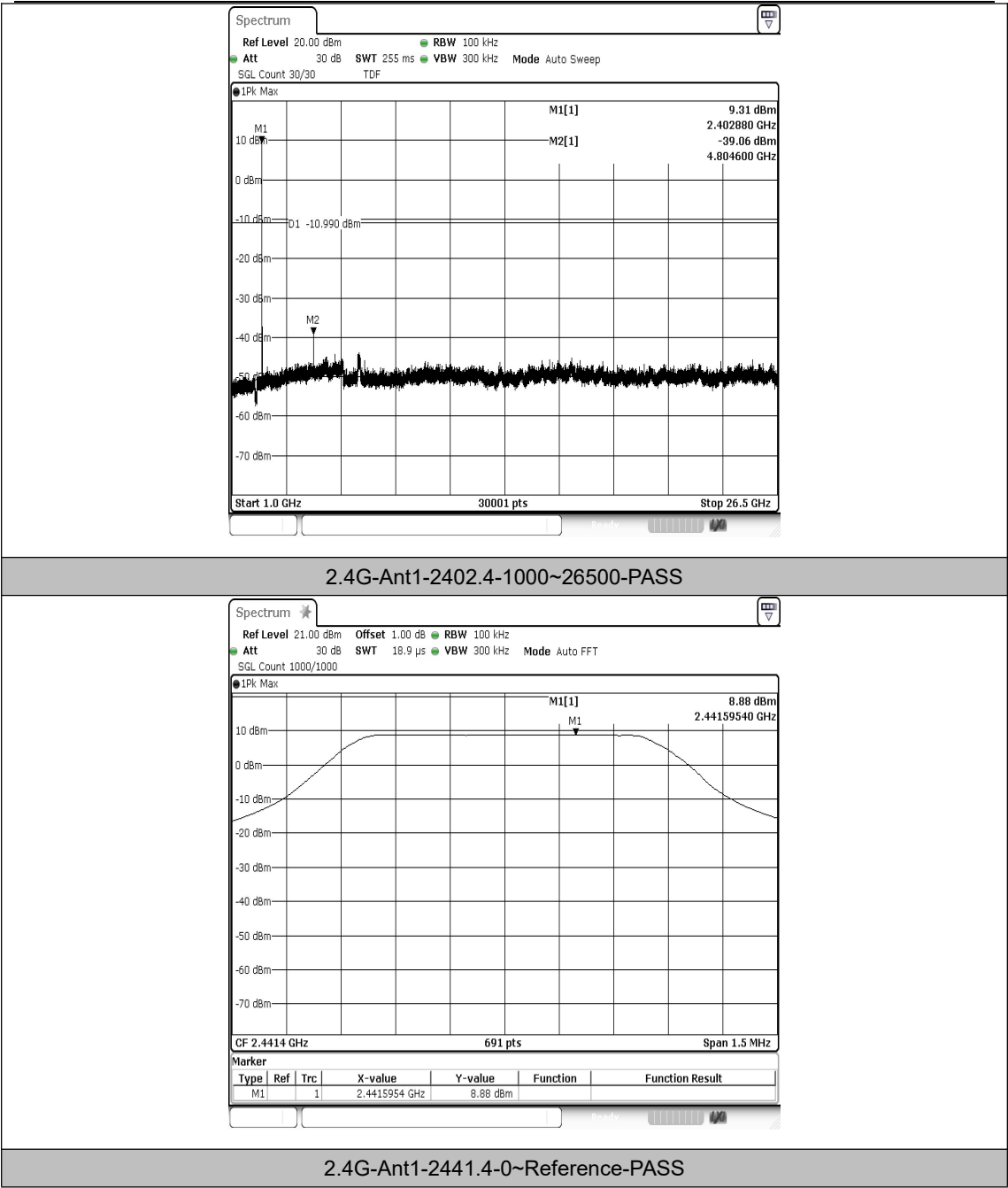
Test Graphs

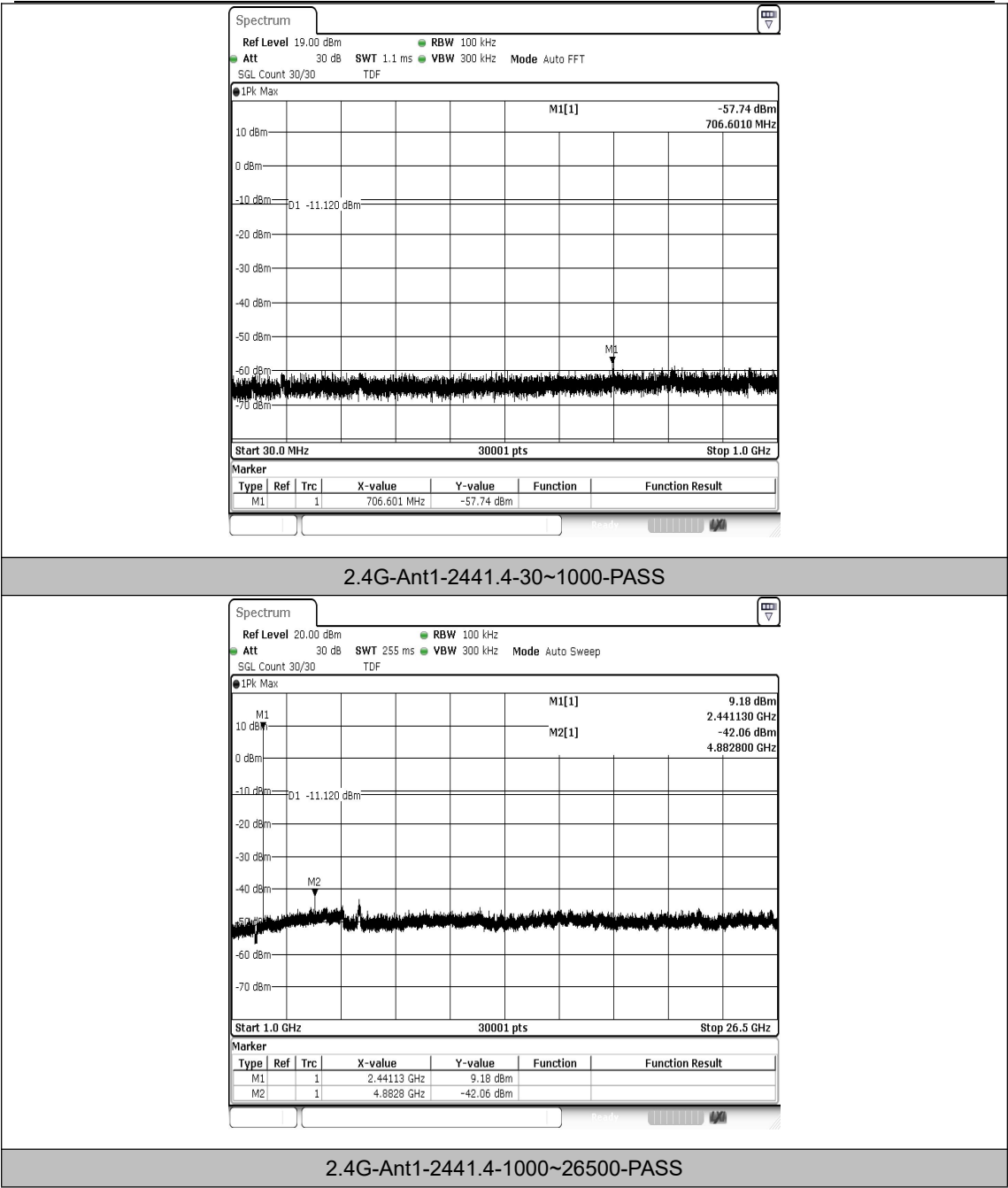


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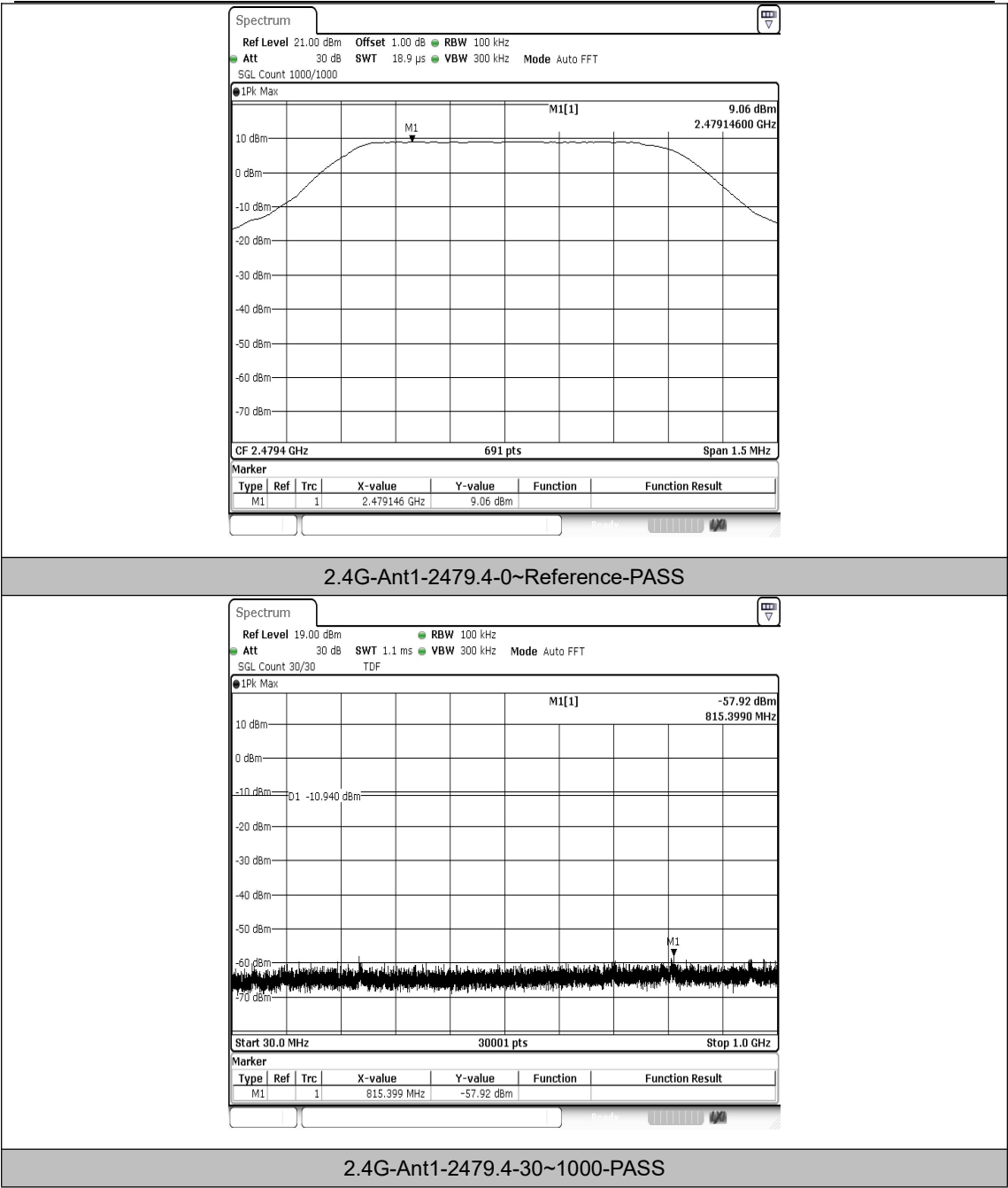


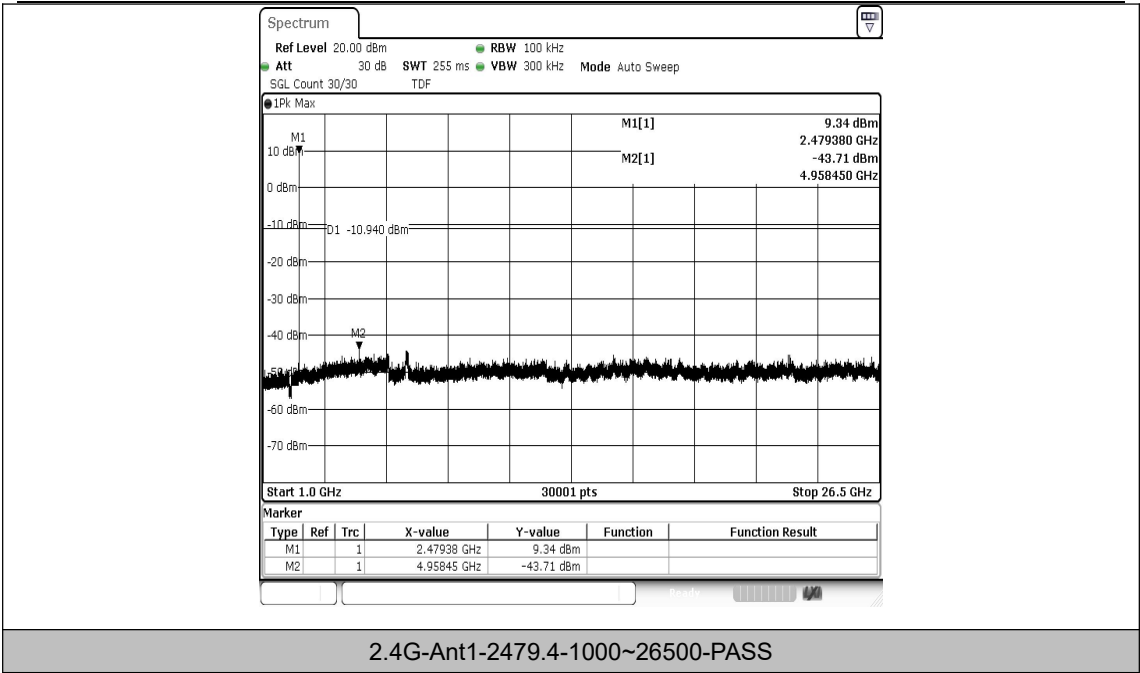


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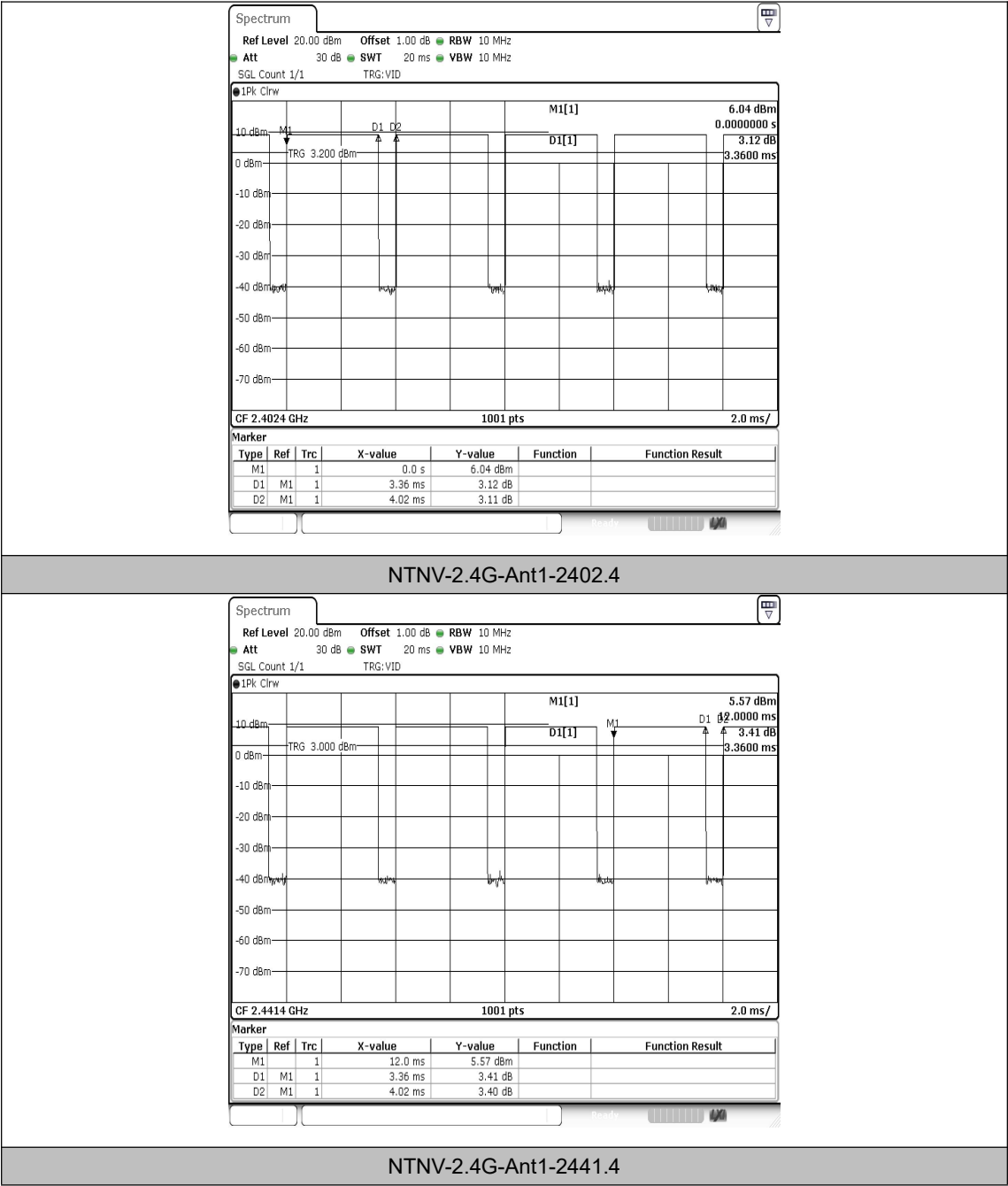
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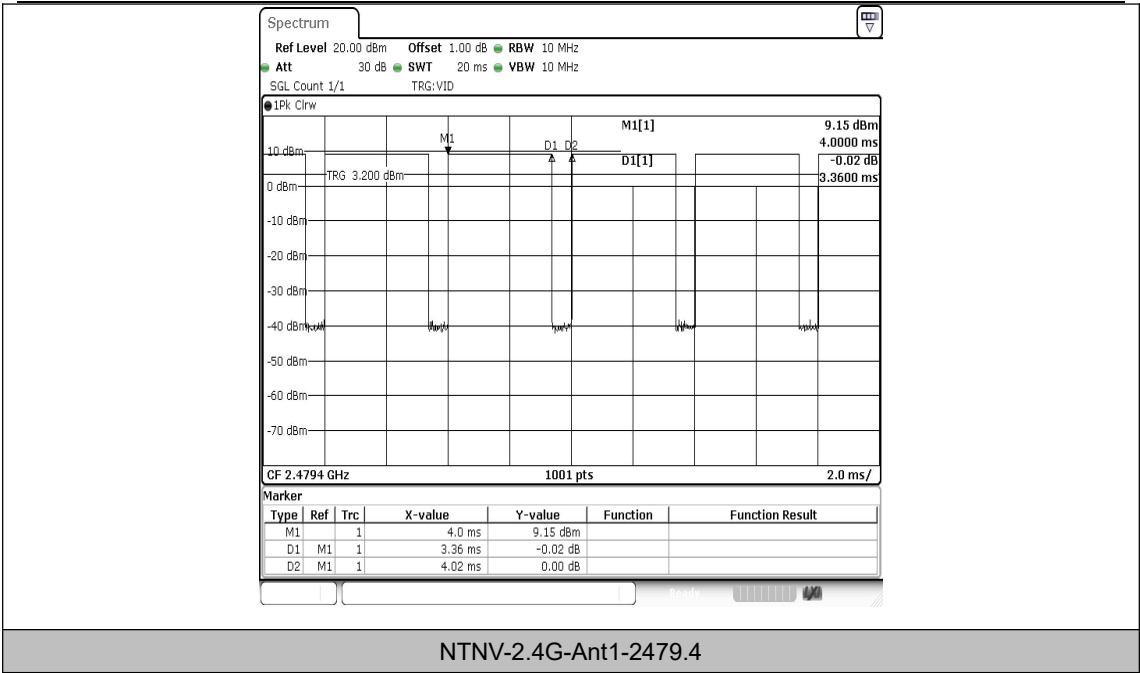
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402.4	3.36	4.02	83.58	0.78
2.4G	Ant1	2441.4	3.36	4.02	83.58	0.78
2.4G	Ant1	2479.4	3.36	4.02	83.58	0.78

Test Graphs





---End---