

Appendix Test Data

Report No.:	1812C50422412503	Test Sample No.:	1-2-2
Start Test Date:	2025-8-19	Finish Test Date:	2025-8-28
Test Engineer:	dylan. Ma	Auditor:	Justin Feng
Temperature:	23.5°C	Relative Humidity:	42%
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	2405	1.79	2404.08	2405.88	---	---
2.4G	Ant1	2441	1.79	2440.08	2441.86	---	---
2.4G	Ant1	2475	1.79	2474.09	2475.88	---	---

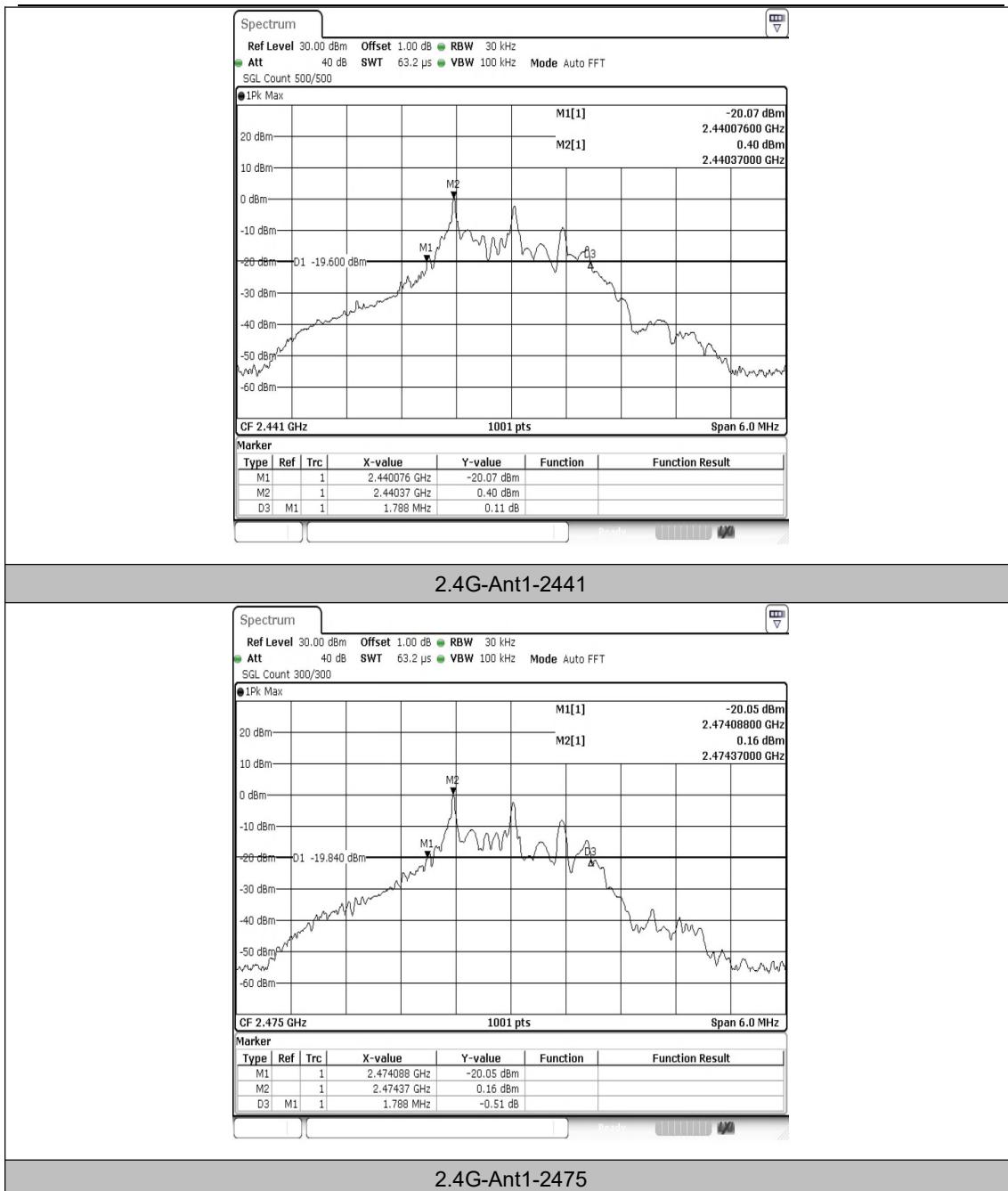
Test Graphs



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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	2405	2.1219	2403.8192	2405.9411	---	---
2.4G	Ant1	2441	2.0559	2439.8851	2441.9411	---	---
2.4G	Ant1	2475	2.2058	2473.6753	2475.8811	---	---

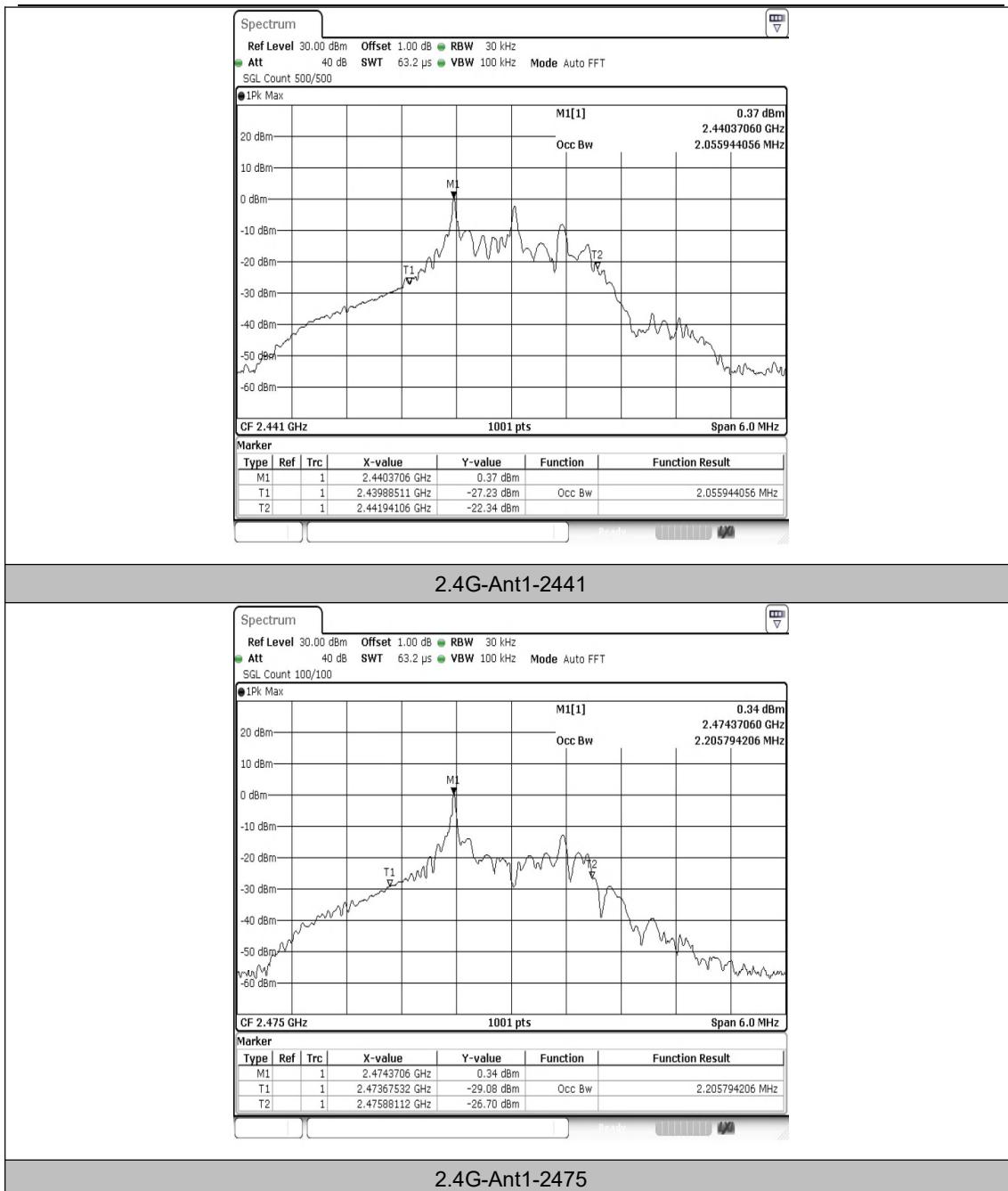
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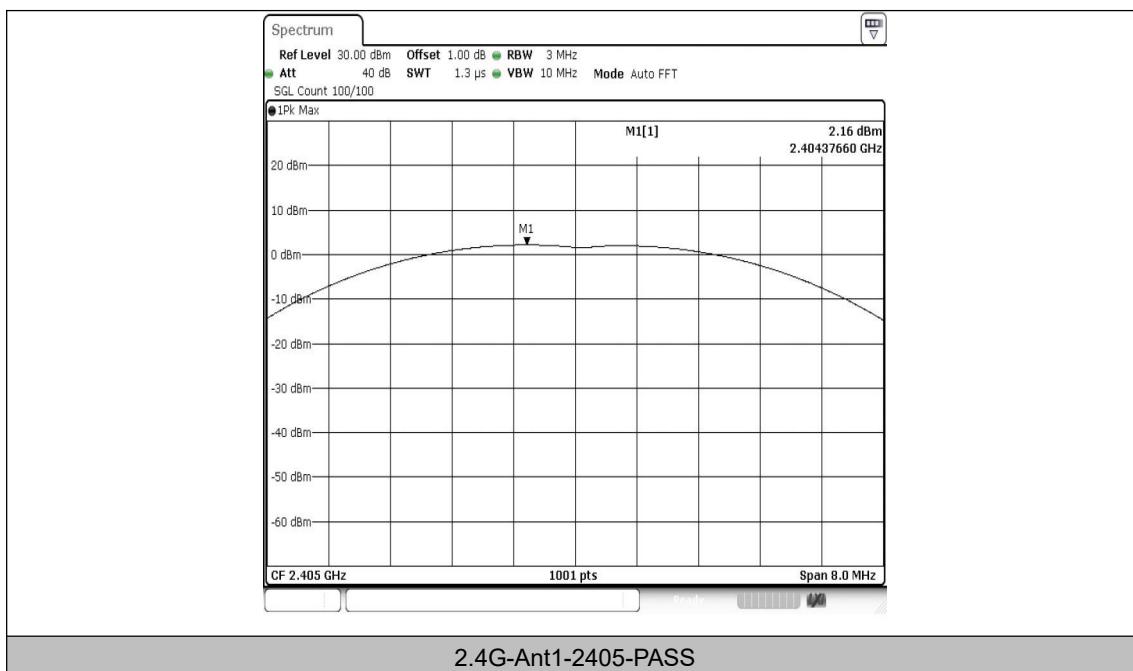
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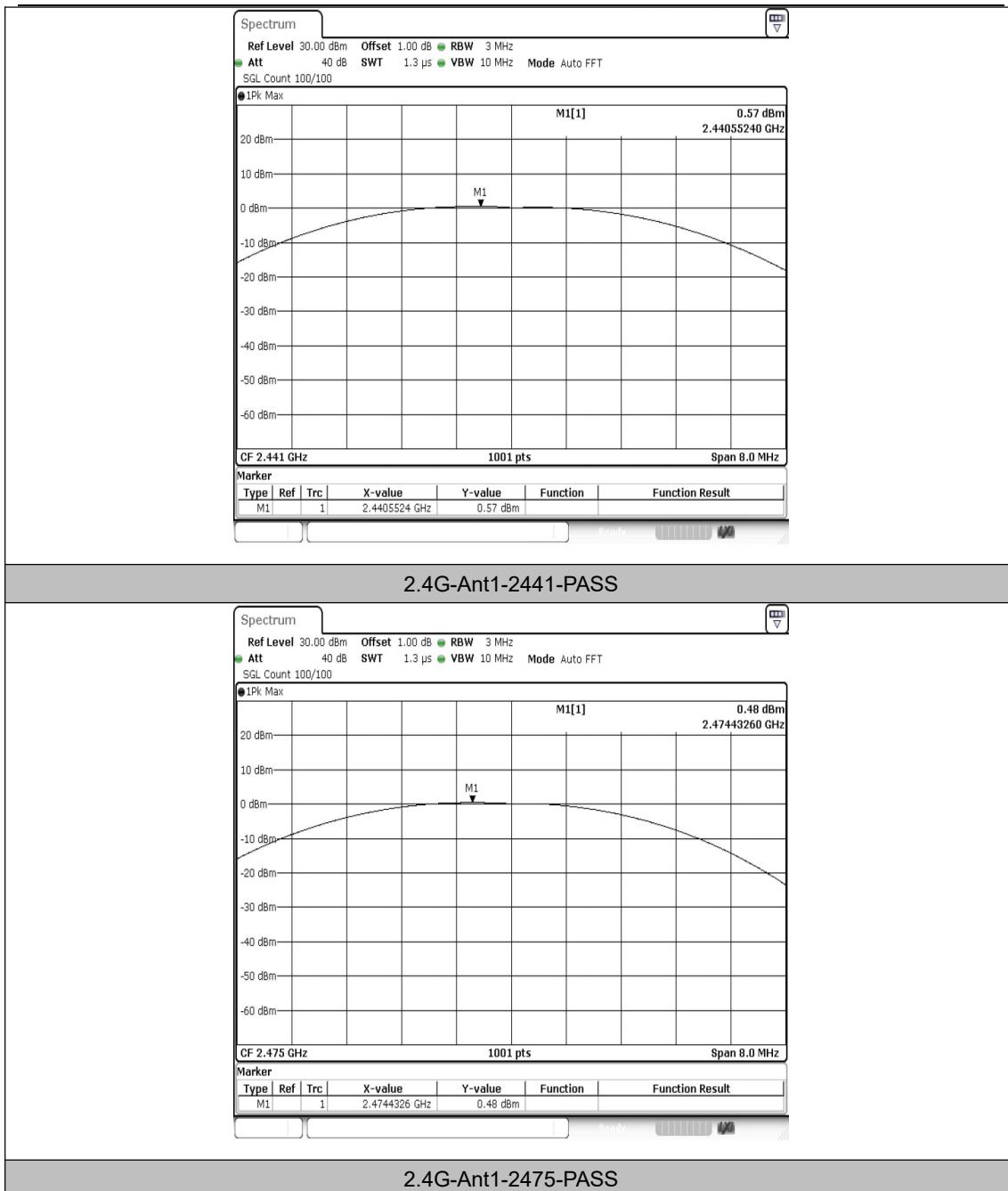
Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2405	2.16	≤20.97	PASS
2.4G	Ant1	2441	0.57	≤20.97	PASS
2.4G	Ant1	2475	0.45	≤20.97	PASS

Test Graphs



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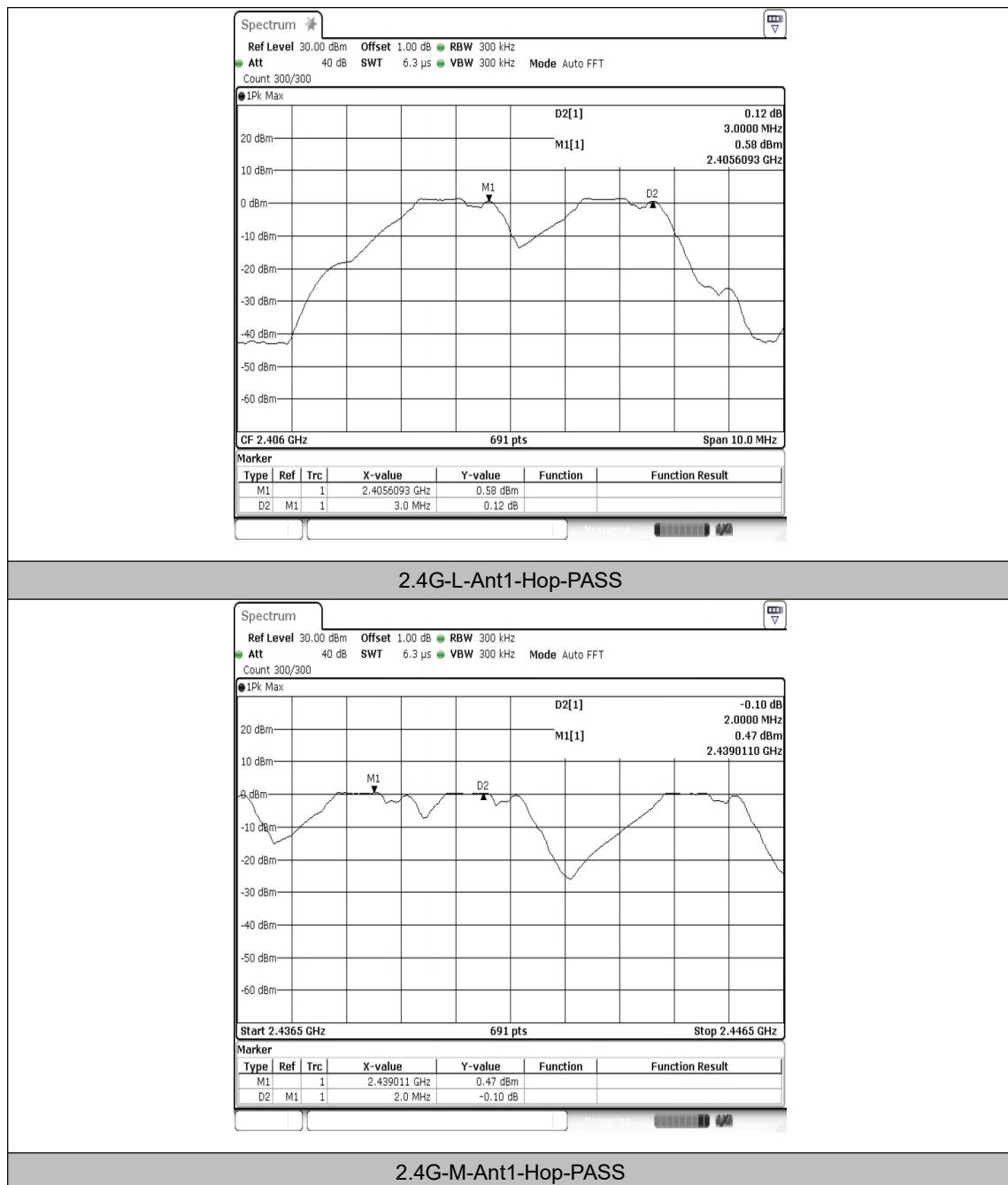
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
2.4G-L	Ant1	Hop	3.000	≥1.193	PASS
2.4G-M	Ant1	Hop	2.000	≥1.193	PASS
2.4G-H	Ant1	Hop	4.000	≥1.193	PASS

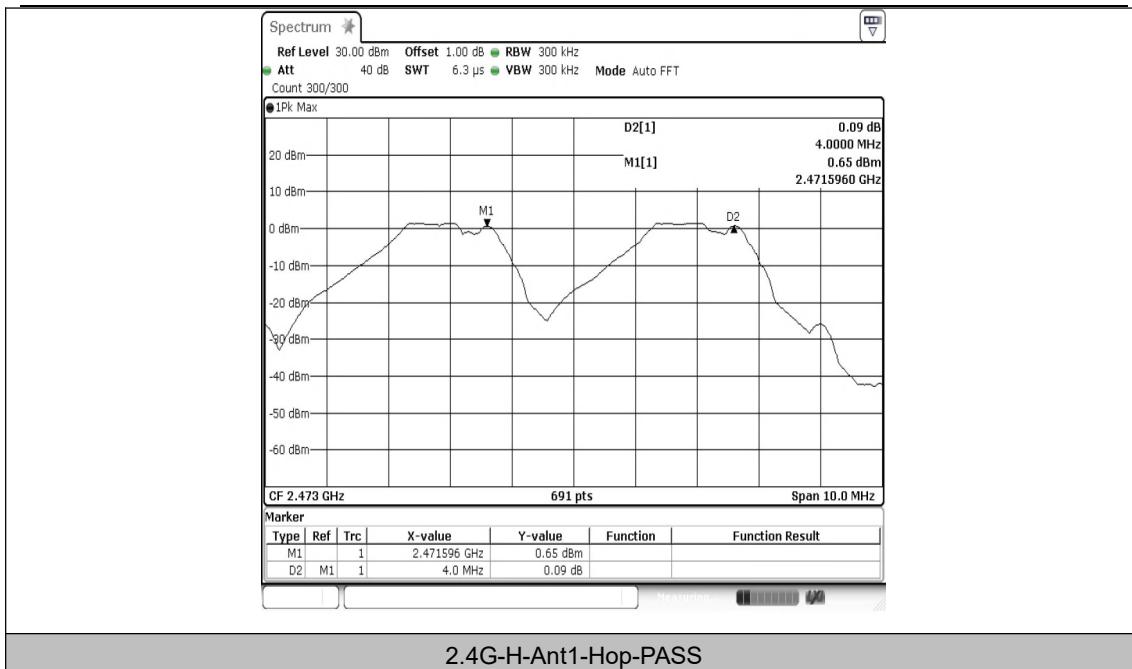
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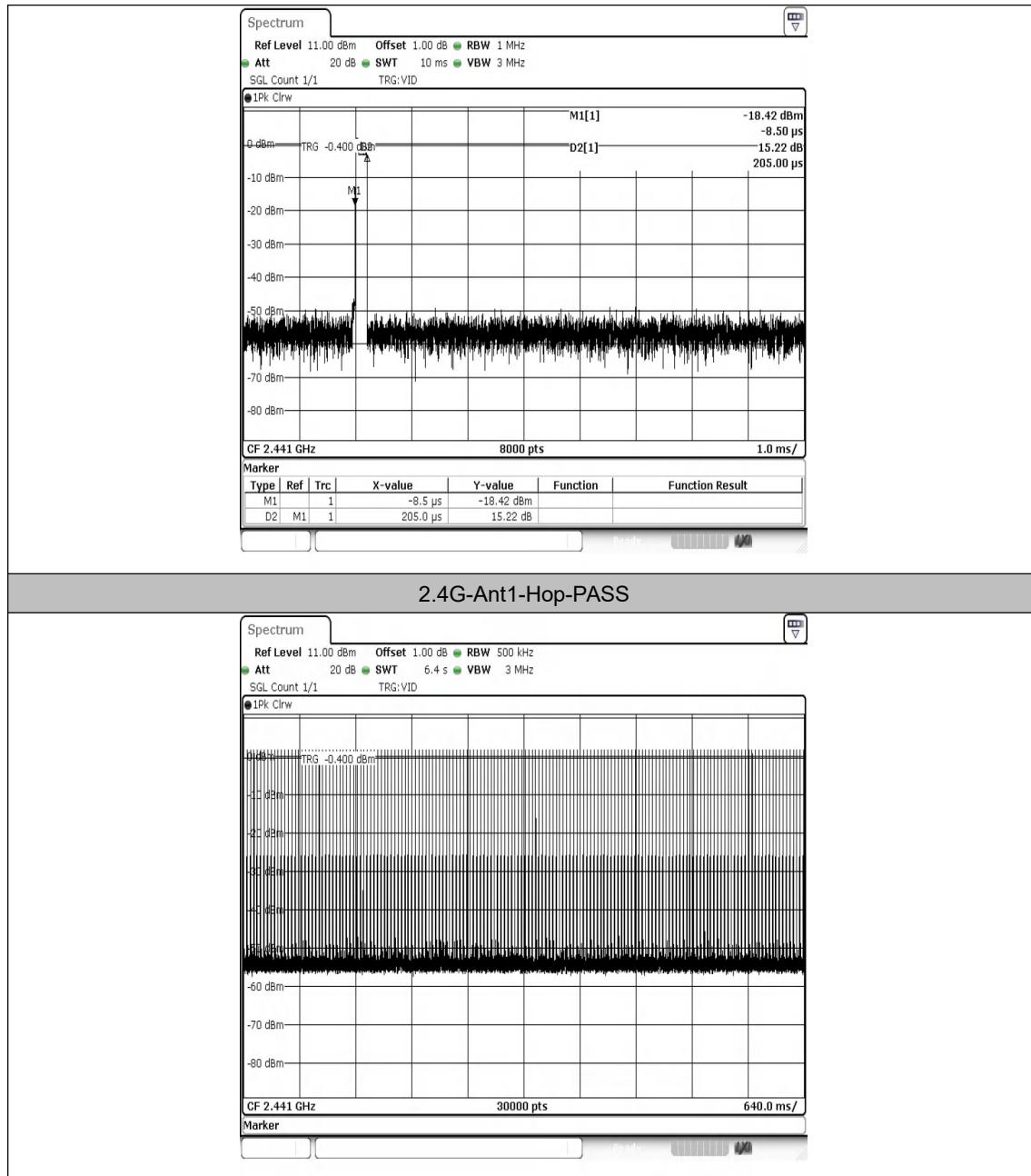
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Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant1	Hop	0.205	164	0.034	≤0.4	PASS

Test Graphs

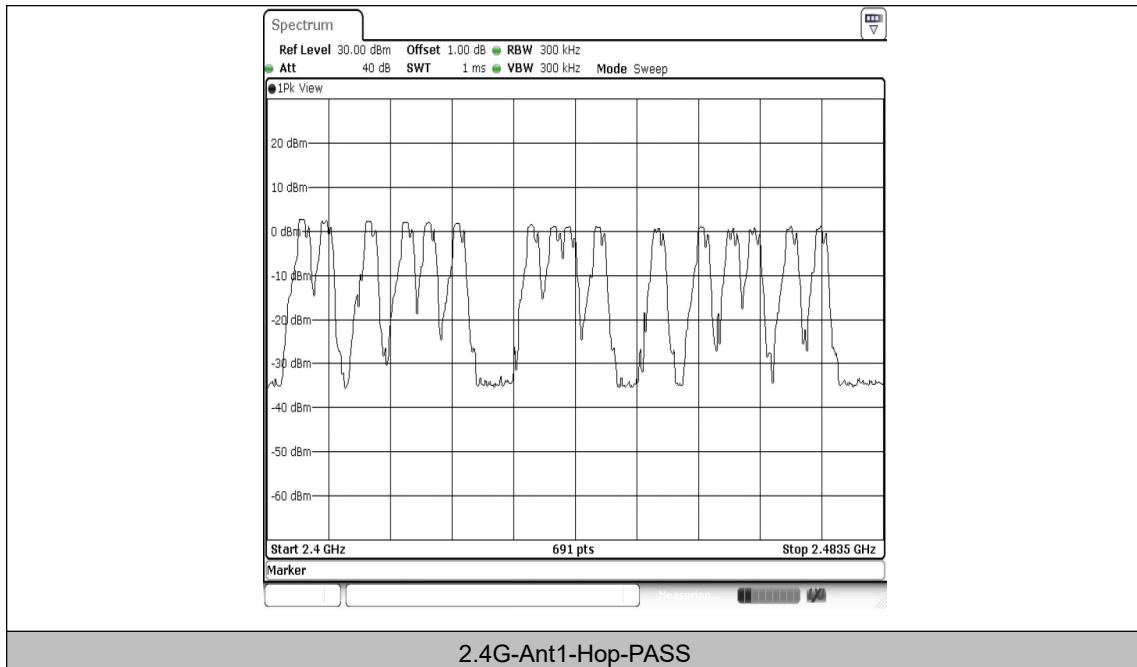


Appendix F: Number of Hopping Channel

Test Result

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

Test Graphs



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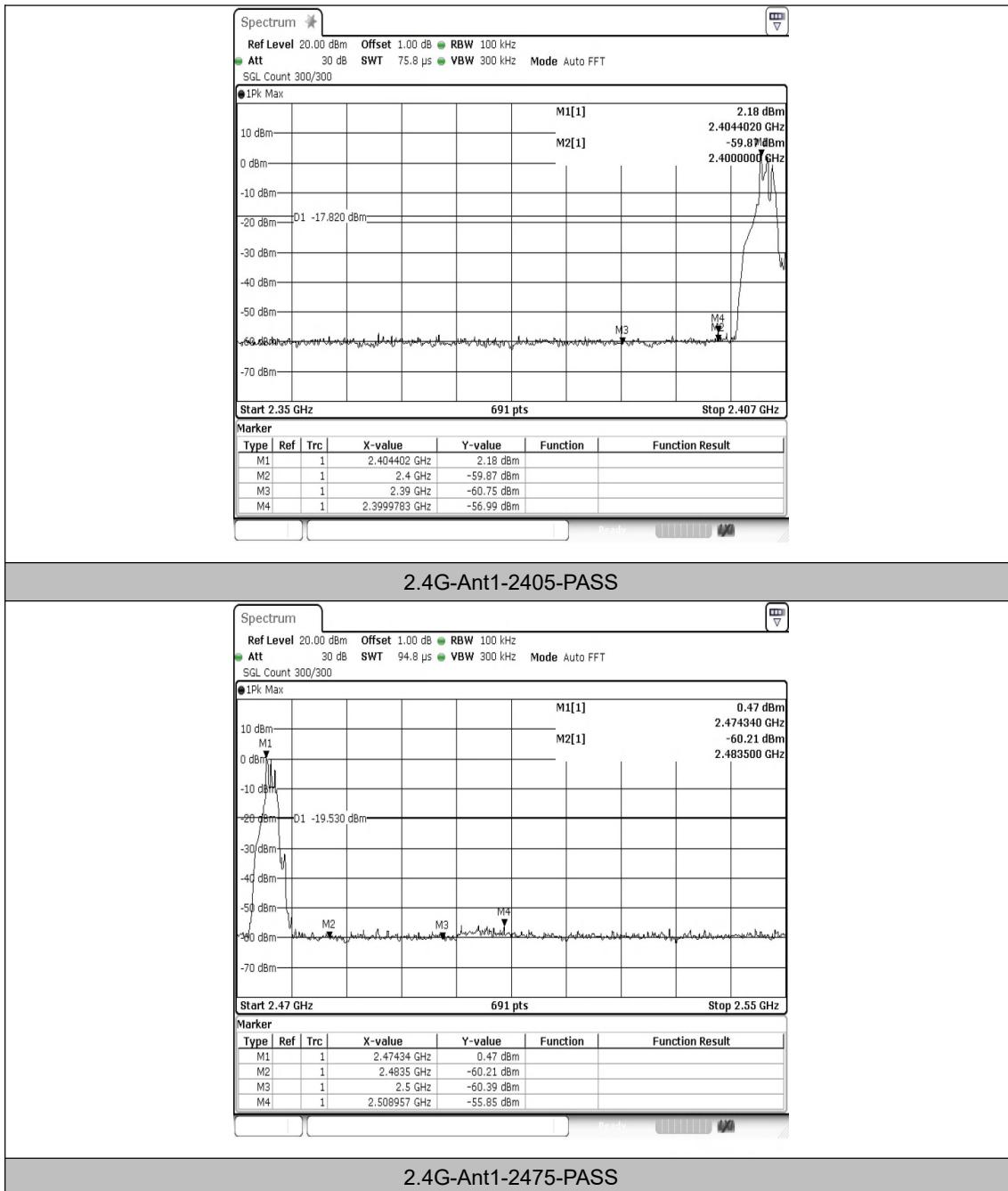
Appendix G: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2405	2.18	-56.99	≤-17.82	PASS
2.4G	Ant1	High	2475	0.47	-55.85	≤-19.53	PASS
2.4G	Ant1	Low	Hop_2405	2.13	-56.49	≤-17.87	PASS
2.4G	Ant1	High	Hop_2475	0.47	-55.98	≤-19.53	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.

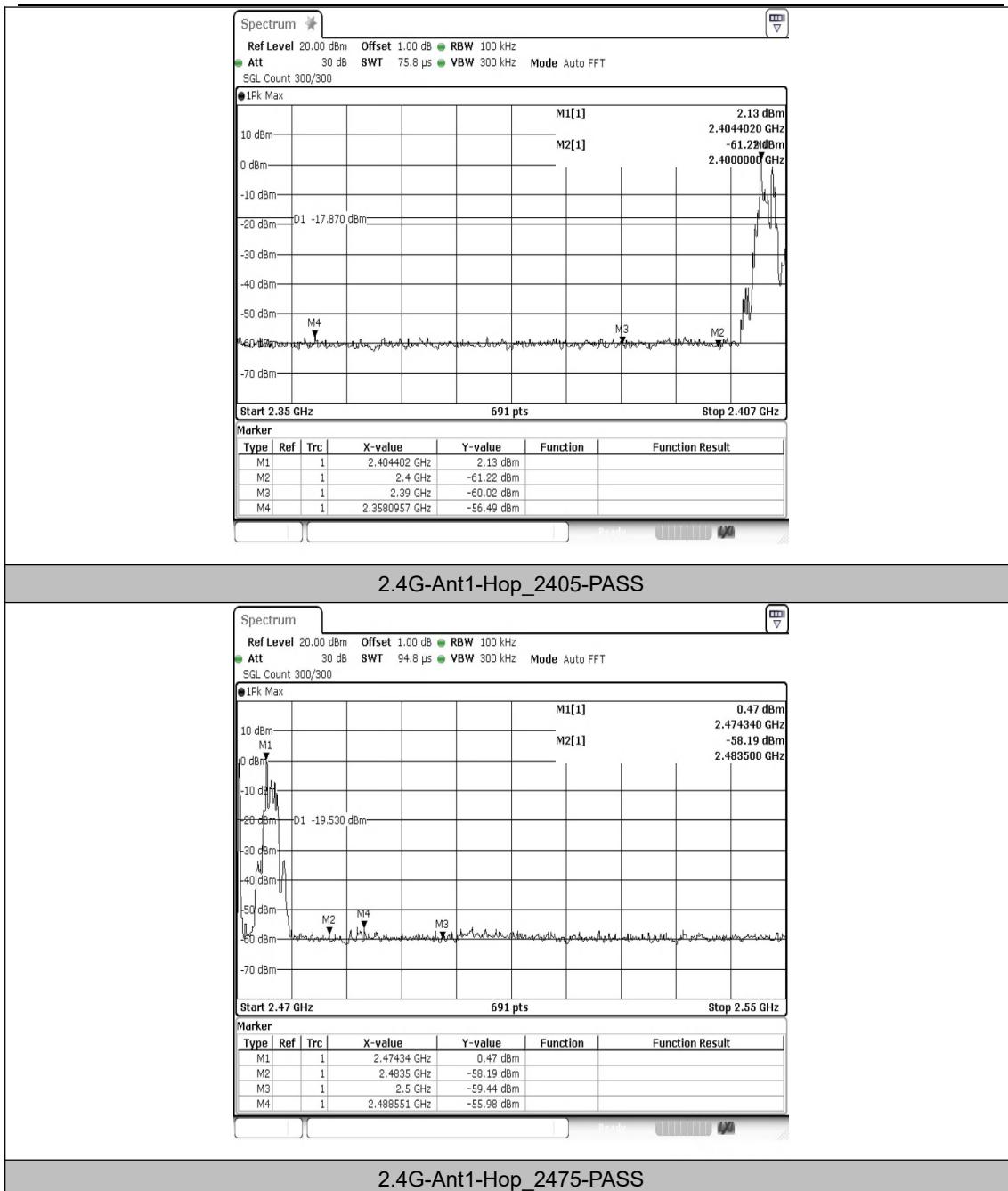
Test Graphs



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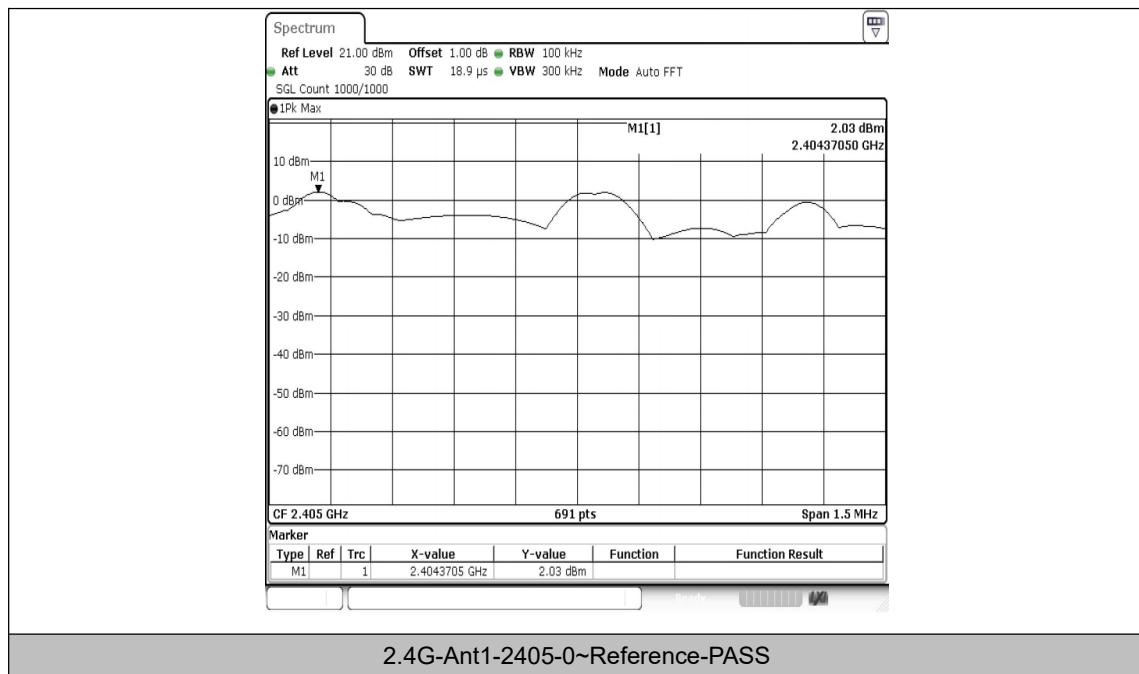
Appendix H: Conducted Spurious Emission

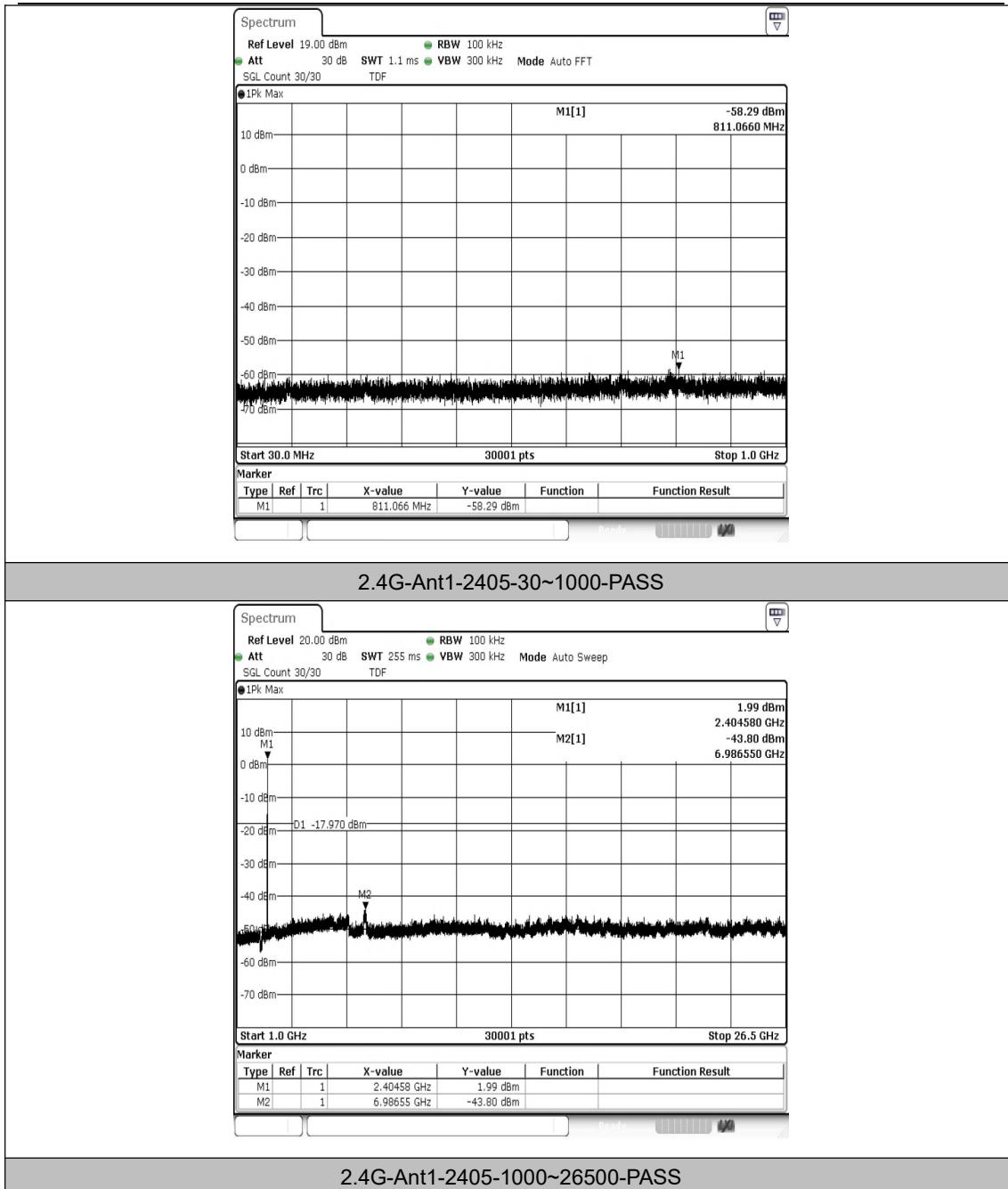
Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2405	0~Reference	2.03	2.03	---	PASS
2.4G	Ant1	2405	30~1000	2.03	-58.29	≤-17.97	PASS
2.4G	Ant1	2405	1000~26500	2.03	-43.8	≤-17.97	PASS
2.4G	Ant1	2441	0~Reference	0.50	0.50	---	PASS
2.4G	Ant1	2441	30~1000	0.50	-57.74	≤-19.5	PASS
2.4G	Ant1	2441	1000~26500	0.50	-43.62	≤-19.5	PASS
2.4G	Ant1	2475	0~Reference	0.45	0.45	---	PASS
2.4G	Ant1	2475	30~1000	0.45	-57.62	≤-19.55	PASS
2.4G	Ant1	2475	1000~26500	0.45	-43.52	≤-19.55	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.

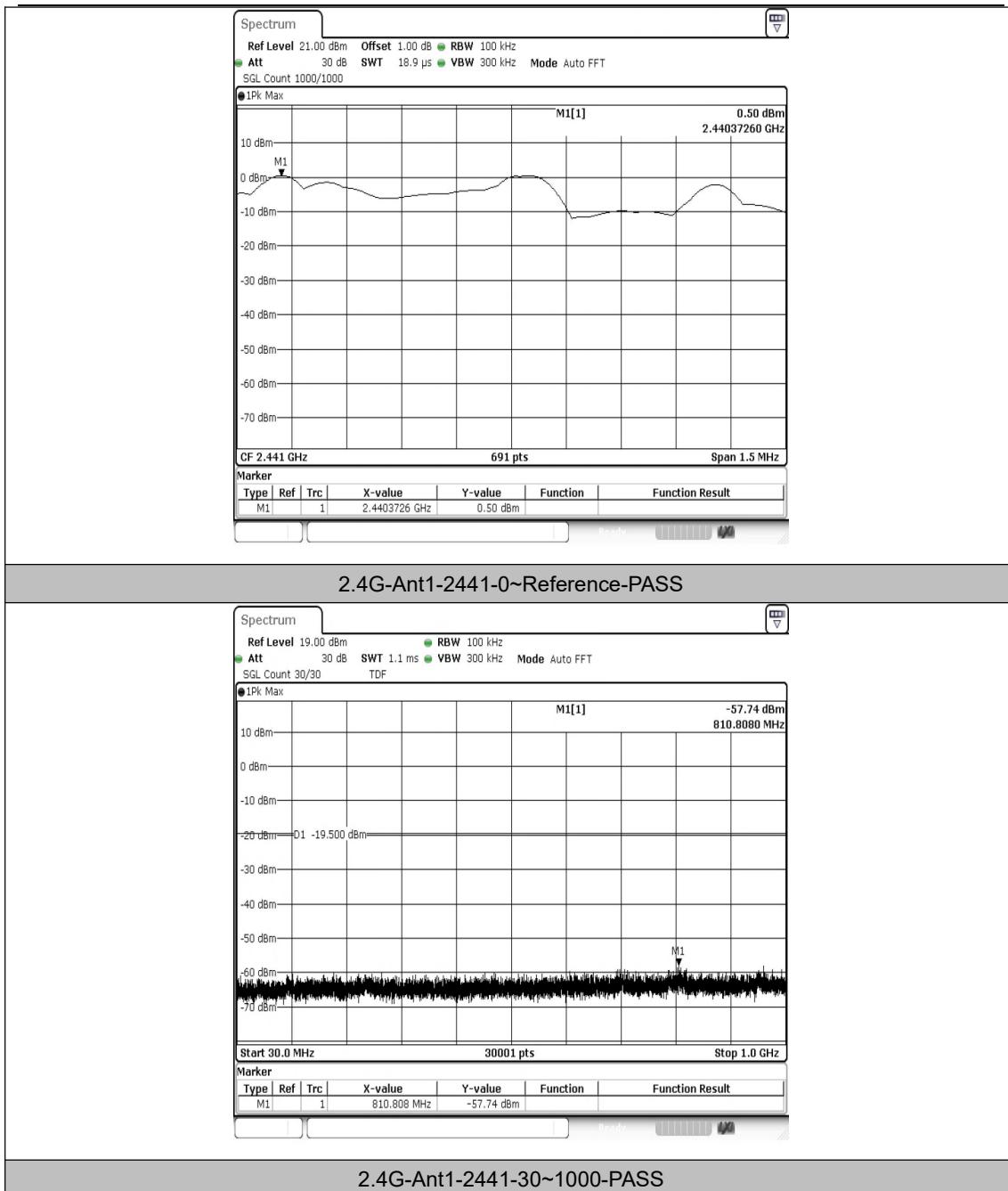
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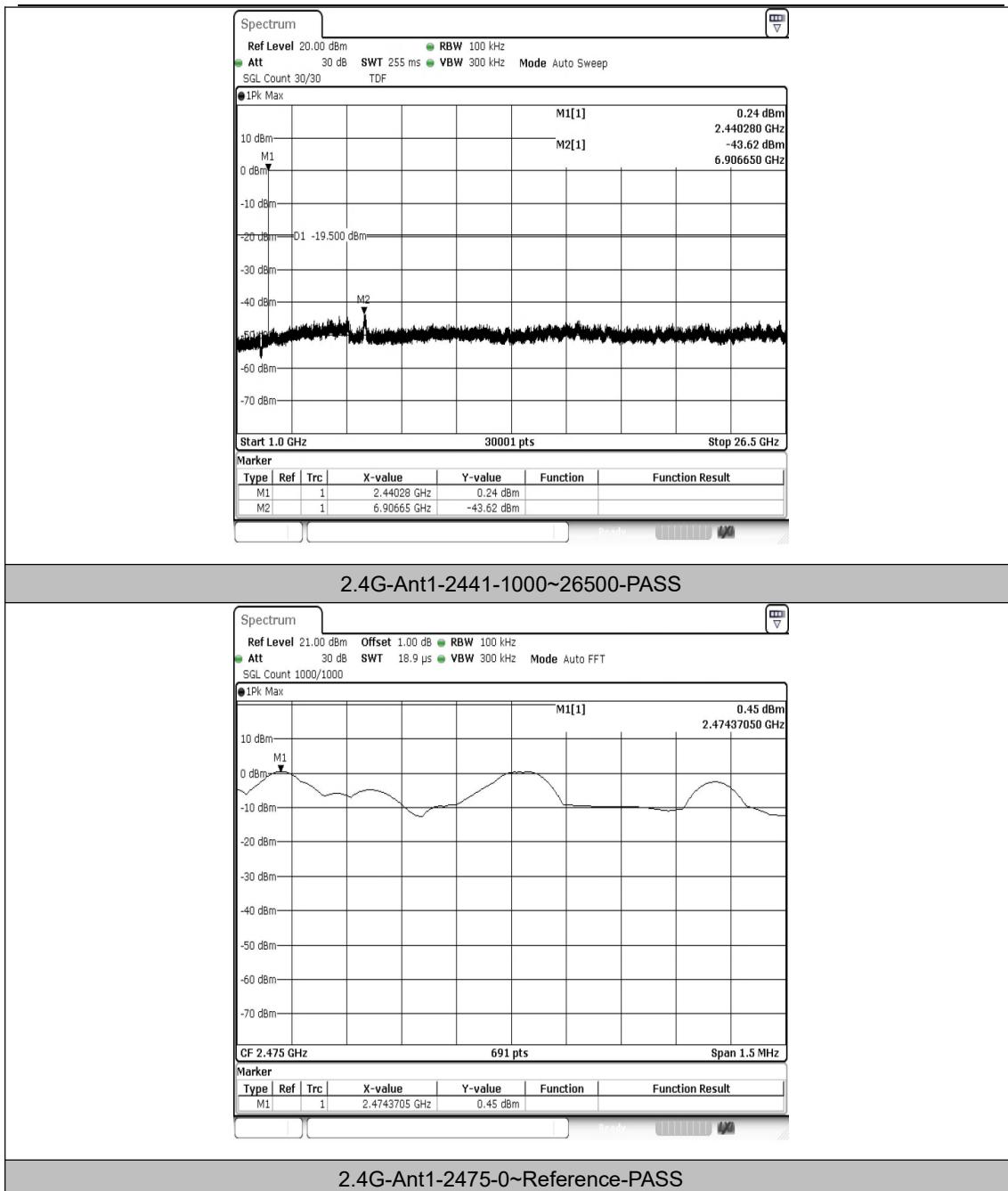
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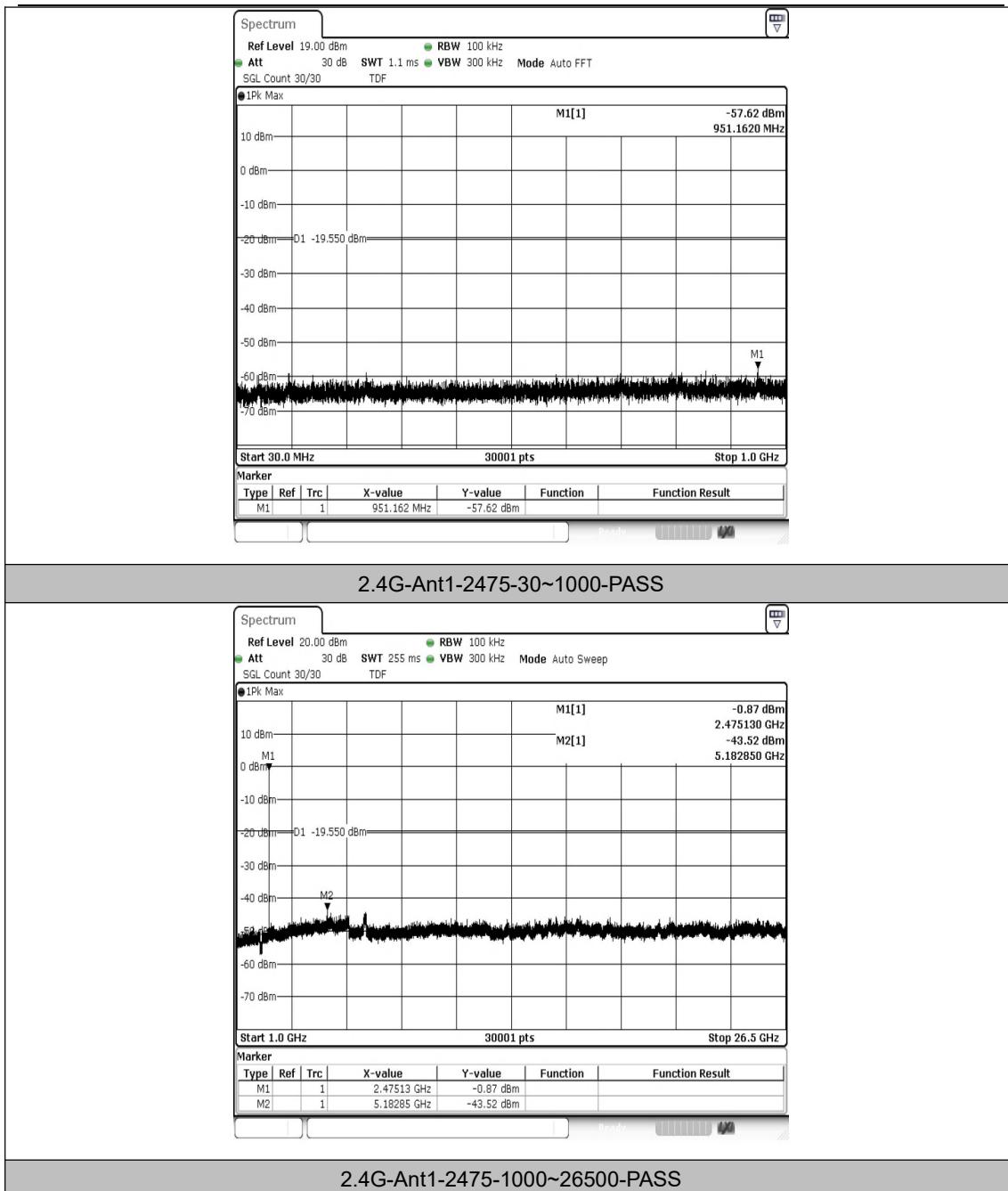
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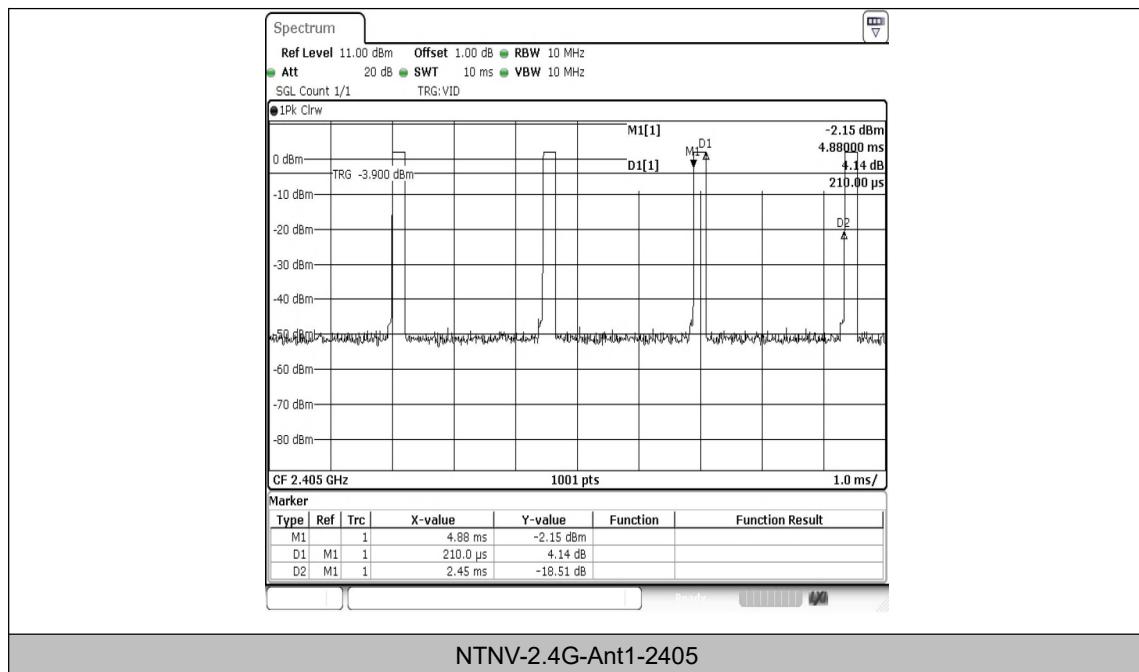
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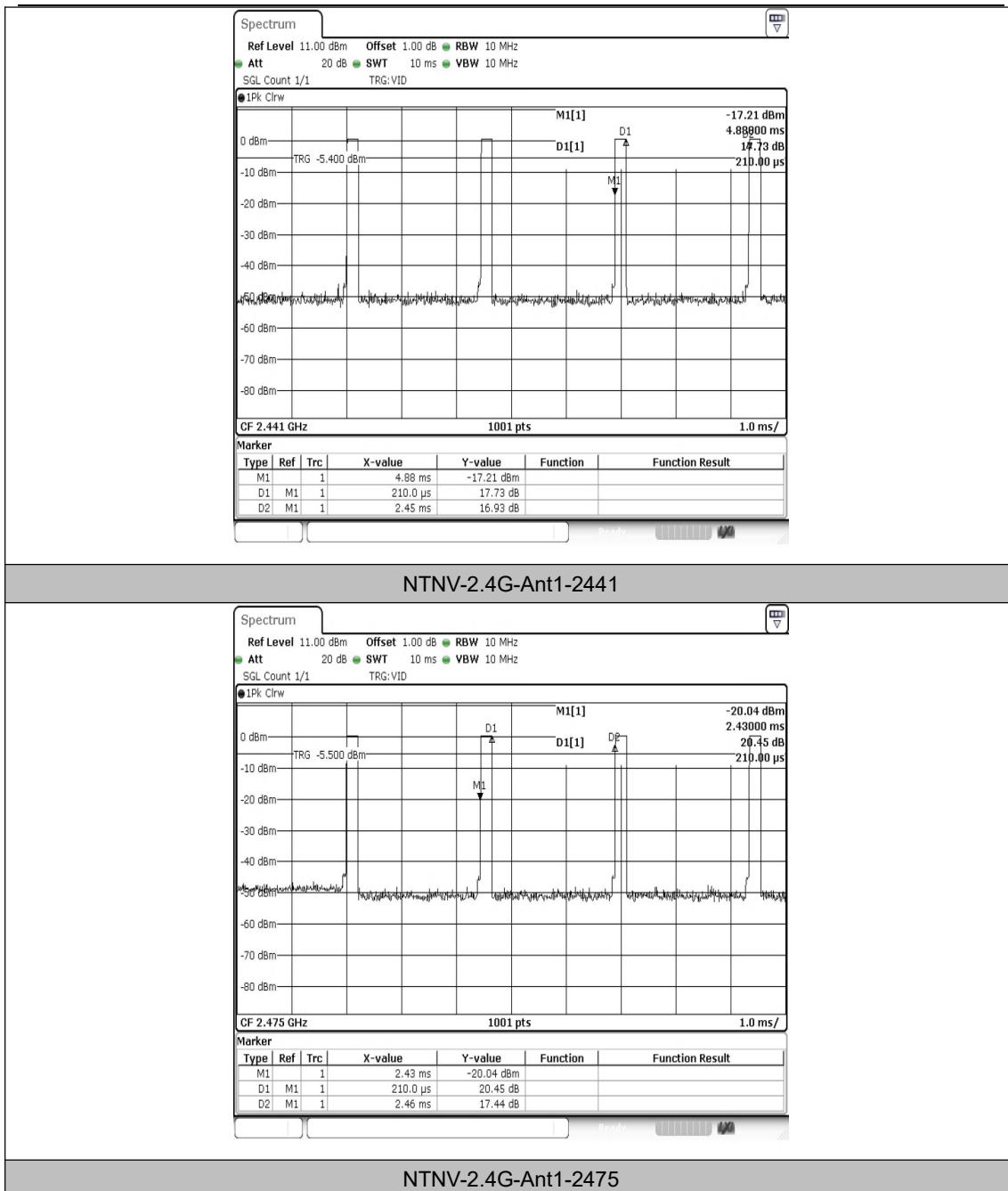
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2405	0.21	2.45	8.57	10.67
2.4G	Ant1	2441	0.21	2.45	8.57	10.67
2.4G	Ant1	2475	0.21	2.46	8.54	10.69

Test Graphs





---End---

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