

Appendix Test Data_ANT1

Report No.:	1812C40077712503	Test Sample No.:	1-2-2
Start Test Date:	2024.9.13	Finish Test Date:	2024.12.8
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.5℃	Relative Humidity:	47%
Pressure:	101kPa		

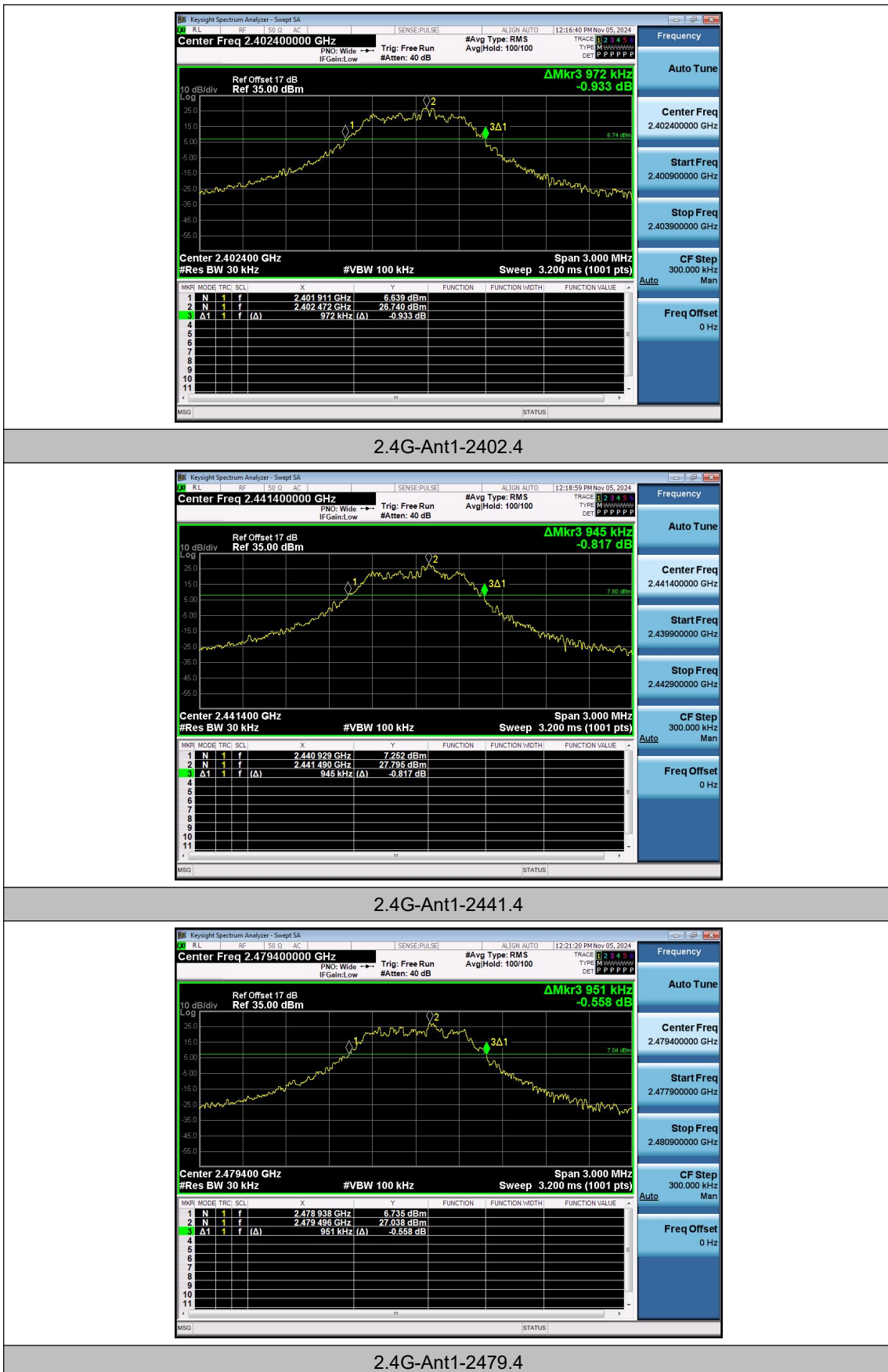
Appendix A: 20dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2402.4	0.972	2401.911	2402.883	---	---
2.4G	Ant1	2441.4	0.945	2440.929	2441.874	---	---
2.4G	Ant1	2479.4	0.951	2478.938	2479.889	---	---



Test Graphs



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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2402.4	0.88054	2401.9545	2402.8351	---	---
2.4G	Ant1	2441.4	0.89194	2440.9507	2441.8427	---	---
2.4G	Ant1	2479.4	0.88161	2478.9617	2479.8433	---	---

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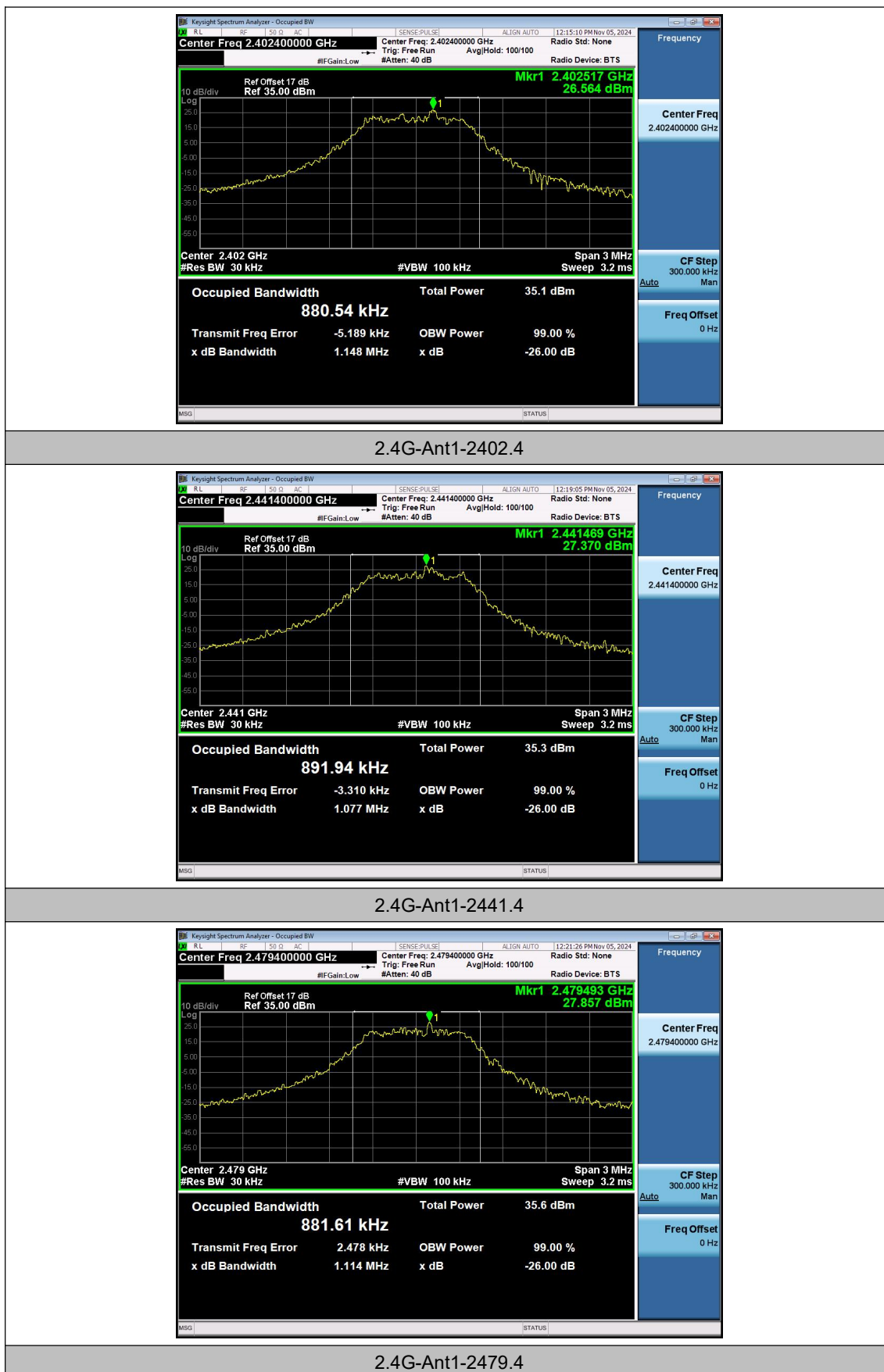
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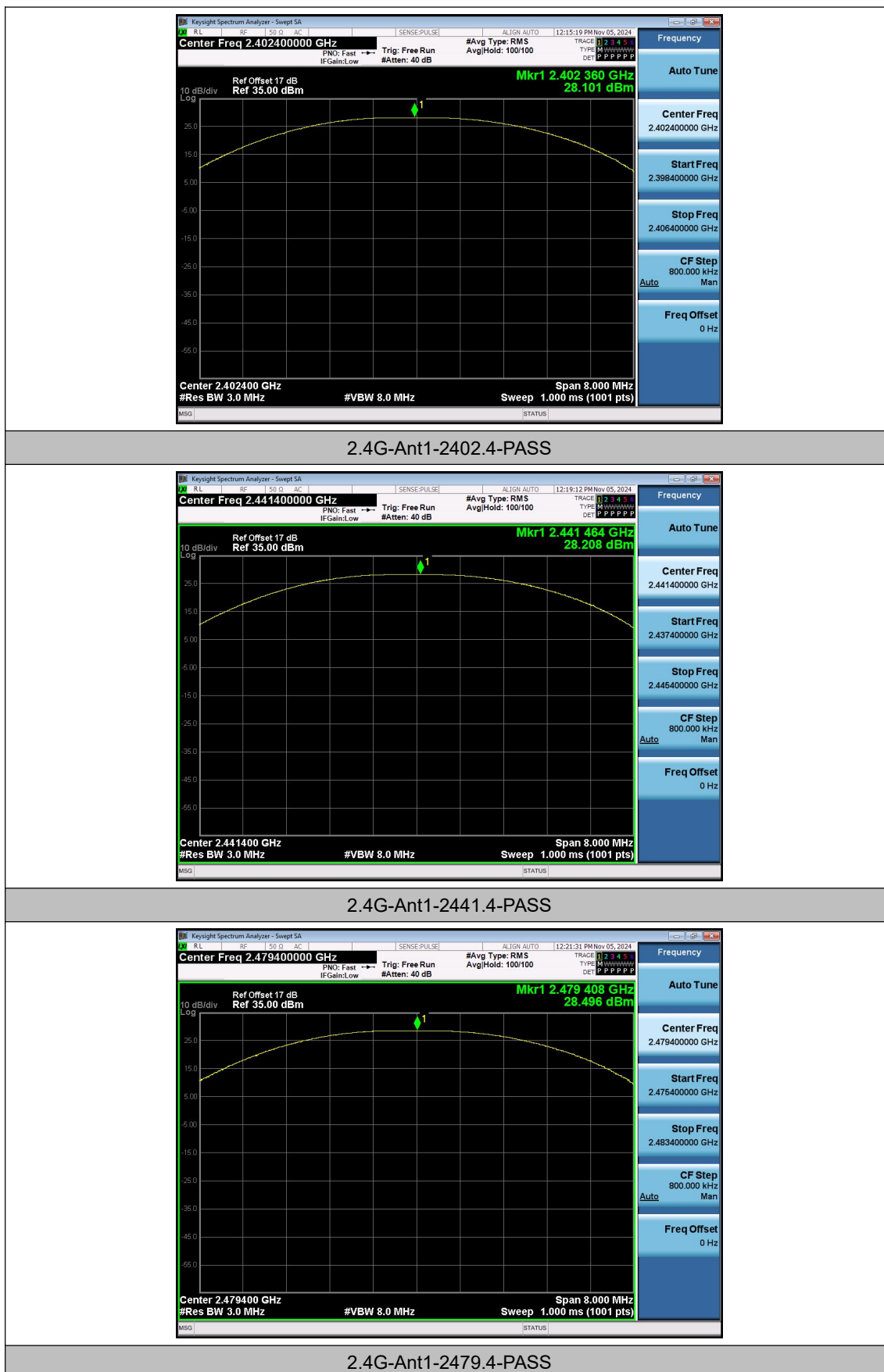
Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2402.4	28.10	≤30	PASS
2.4G	Ant1	2441.4	28.21	≤30	PASS
2.4G	Ant1	2479.4	28.50	≤30	PASS



Test Graphs



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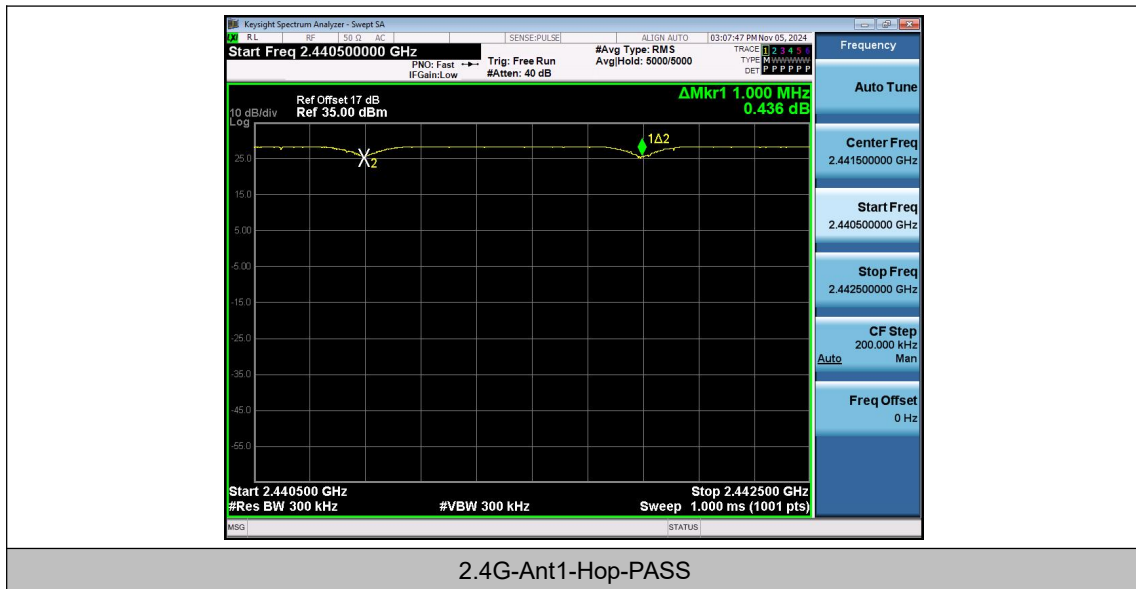
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1	≥ 0.972	PASS



Test Graphs



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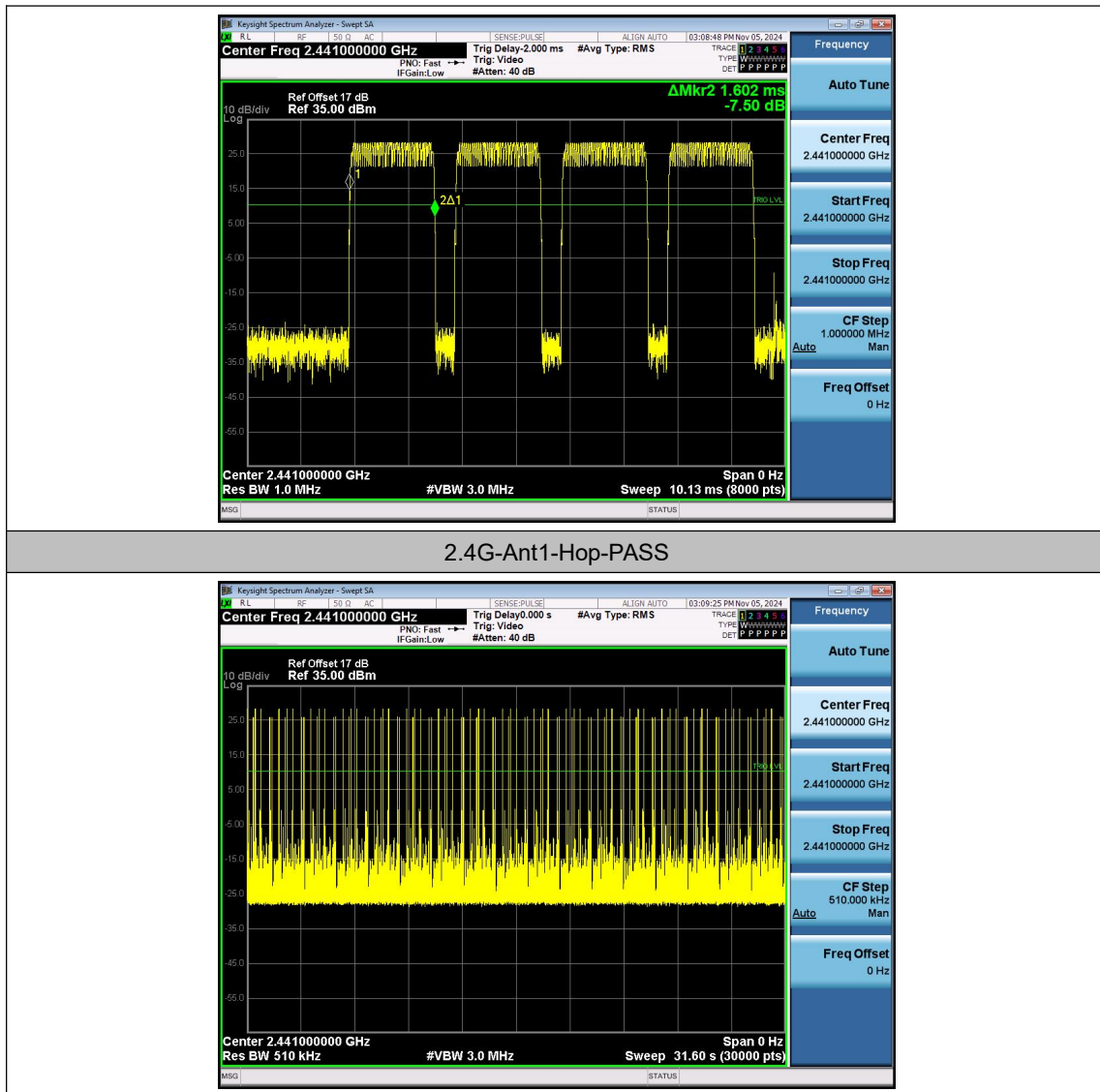
Appendix E: Dwell Time

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	1.602	102	0.163	≤0.4	PASS



Test Graphs



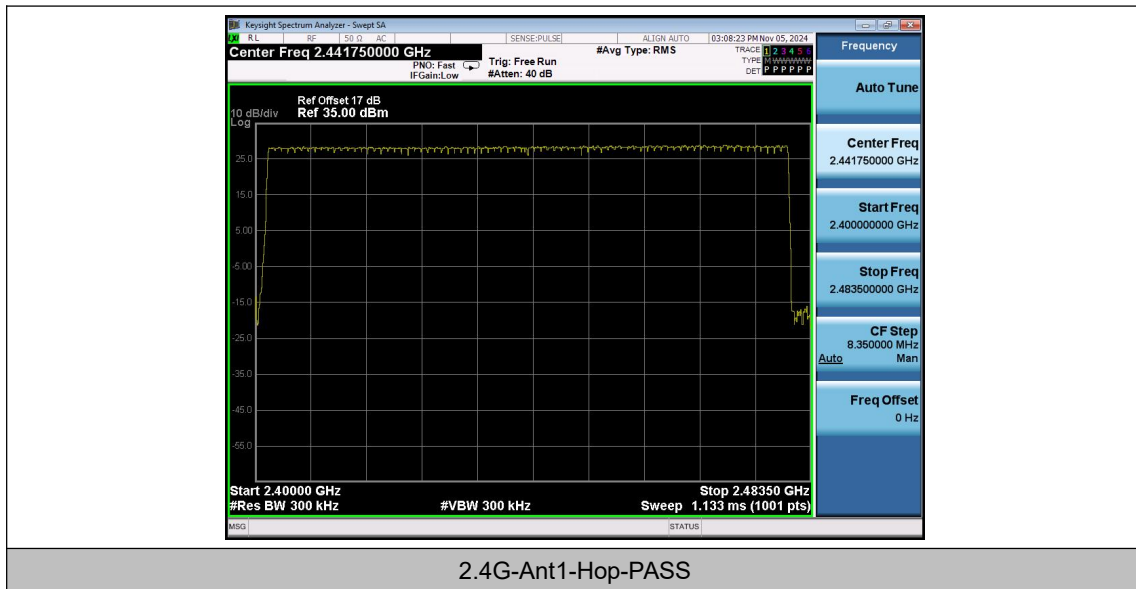
Appendix F: Number of Hopping Channel

Test Result

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



Test Graphs



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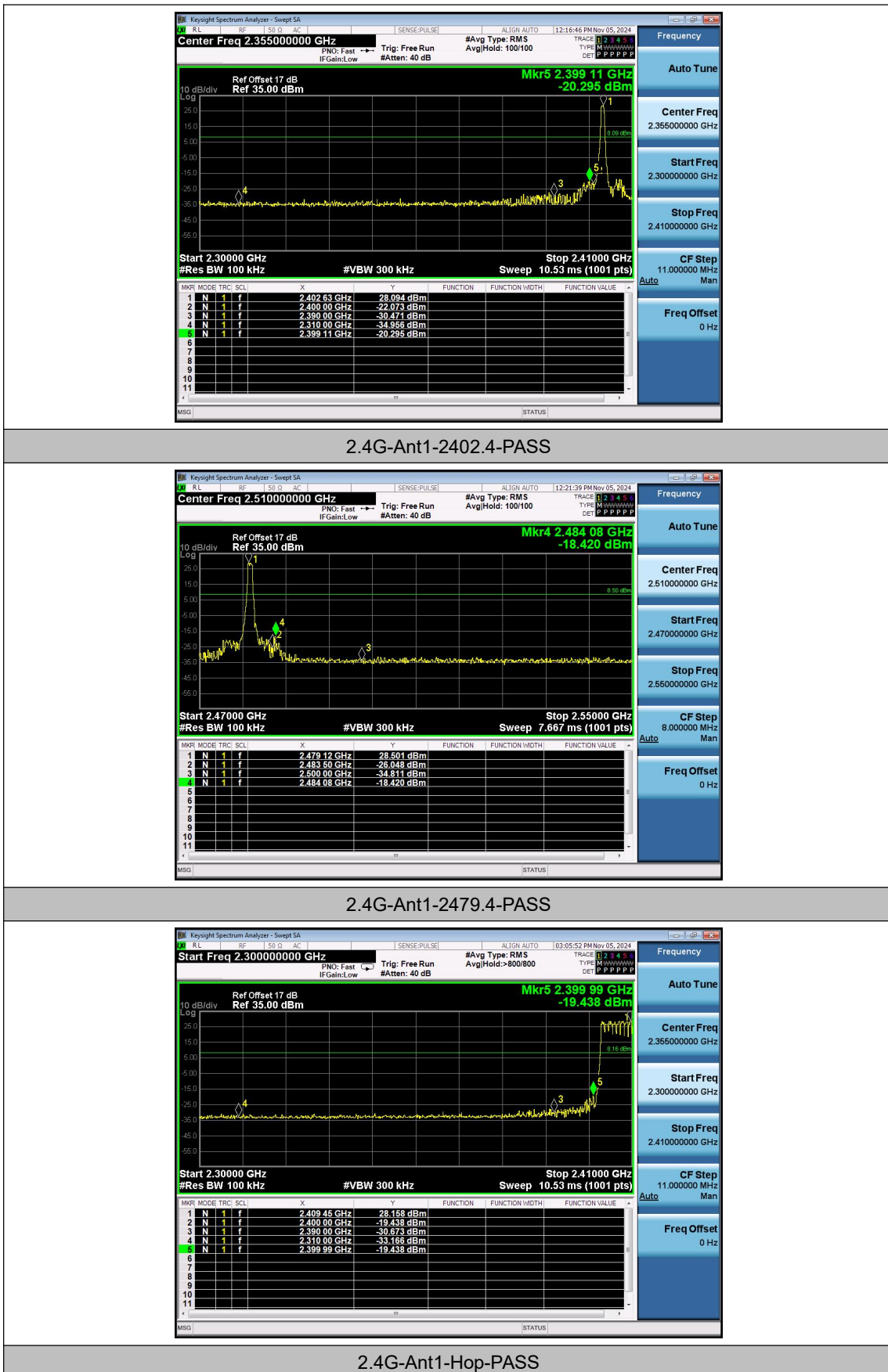
Appendix G: Conducted Band edge

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402.4	28.09	-20.3	≤8.09	PASS
2.4G	Ant1	High	2479.4	28.50	-18.42	≤8.5	PASS
2.4G	Ant1	Low	Hop	28.16	-19.44	≤8.16	PASS
2.4G	Ant1	High	Hop	28.49	-27.96	≤8.49	PASS



Test Graphs

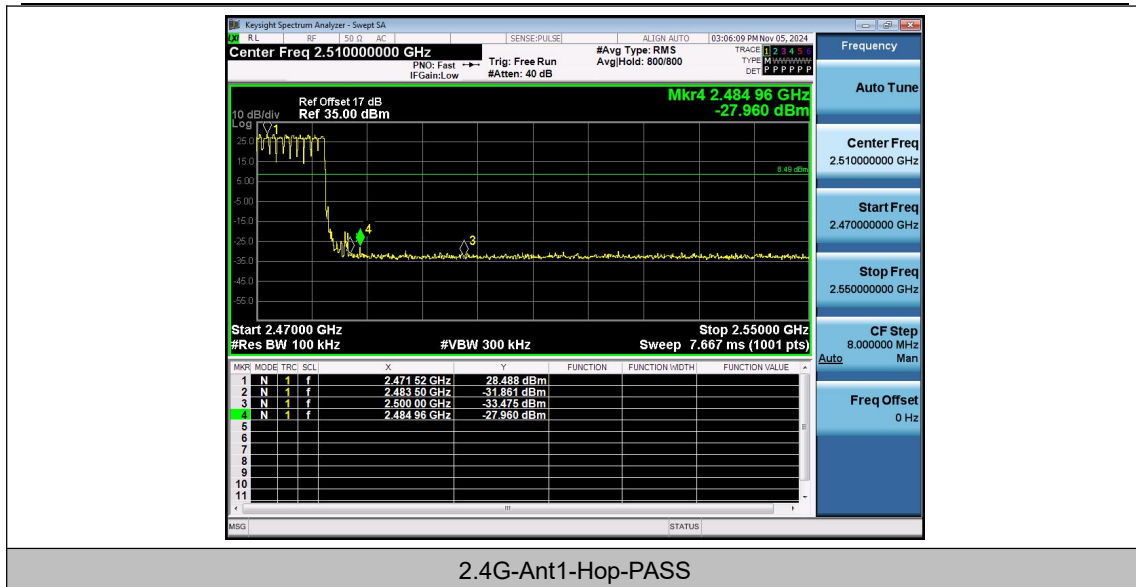


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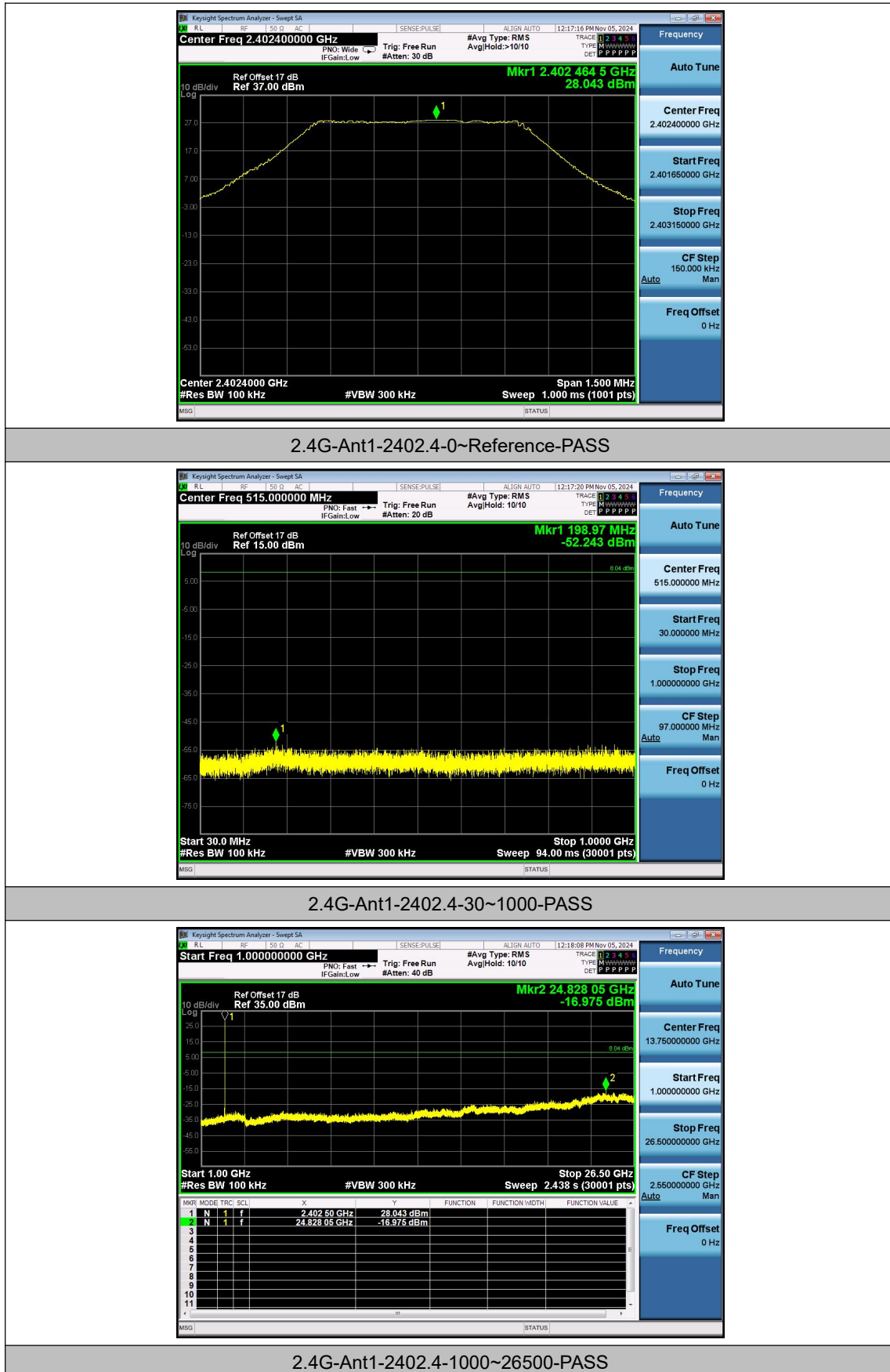
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402.4	0~Reference	28.04	28.04	---	PASS
2.4G	Ant1	2402.4	30~1000	28.04	-52.24	≤8.04	PASS
2.4G	Ant1	2402.4	1000~26500	28.04	-16.98	≤8.04	PASS
2.4G	Ant1	2441.4	0~Reference	28.13	28.13	---	PASS
2.4G	Ant1	2441.4	30~1000	28.13	-52.6	≤8.13	PASS
2.4G	Ant1	2441.4	1000~26500	28.13	-17.52	≤8.13	PASS
2.4G	Ant1	2479.4	0~Reference	28.43	28.43	---	PASS
2.4G	Ant1	2479.4	30~1000	28.43	-52.7	≤8.43	PASS
2.4G	Ant1	2479.4	1000~26500	28.43	-16.9	≤8.43	PASS



Test Graphs

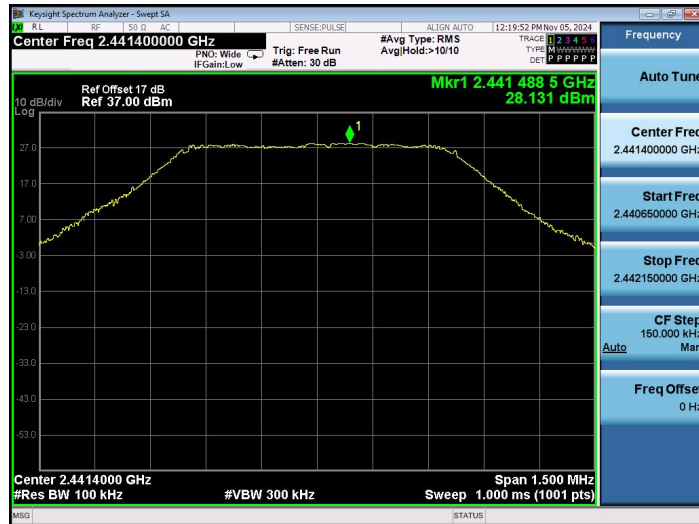


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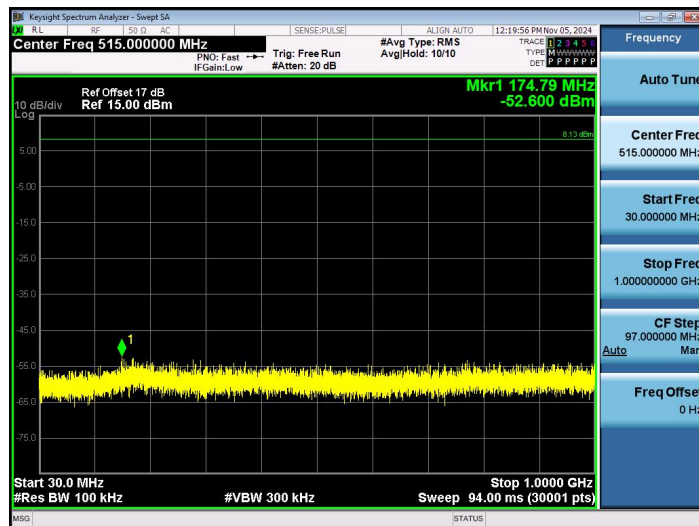
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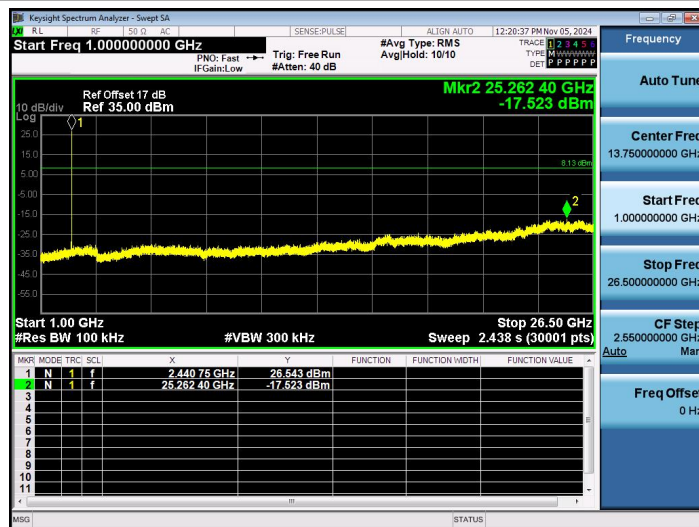




2.4G-Ant1-2441.4-0~Reference-PASS

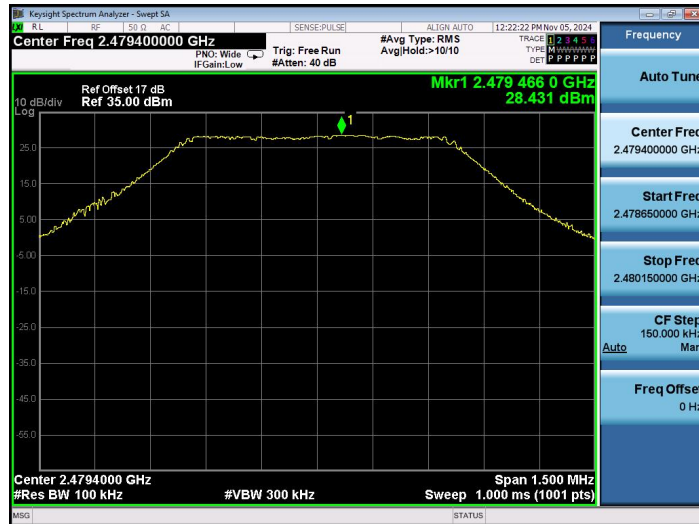


2.4G-Ant1-2441.4-30~1000-PASS

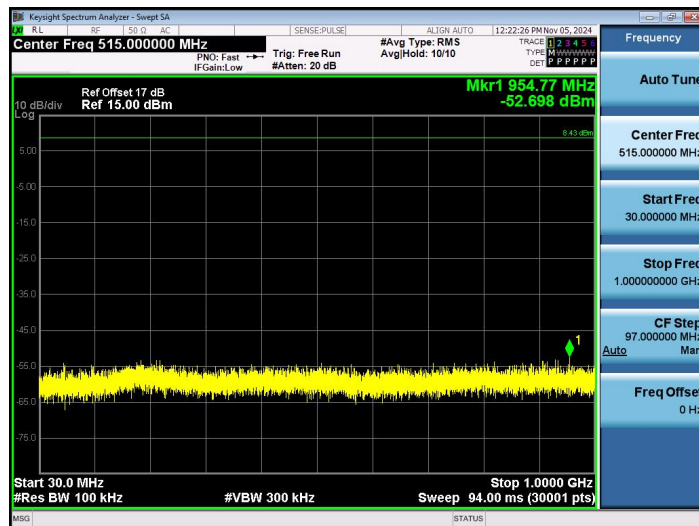


2.4G-Ant1-2441.4-1000~26500-PASS

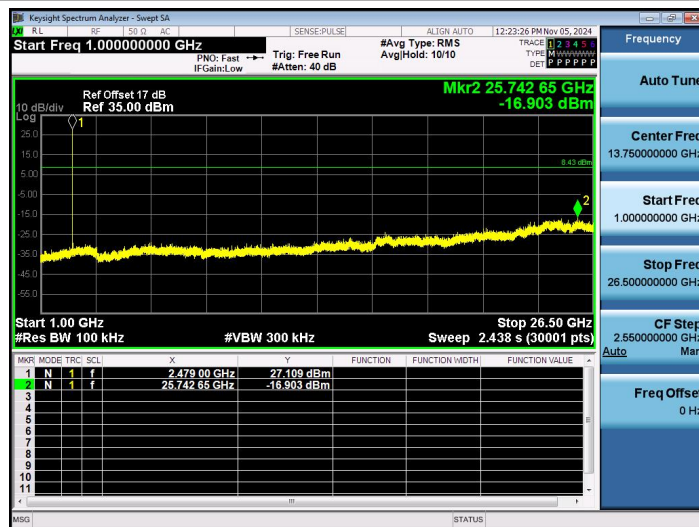




2.4G-Ant1-2479.4-0~Reference-PASS



2.4G-Ant1-2479.4-30~1000-PASS



2.4G-Ant1-2479.4-1000~26500-PASS



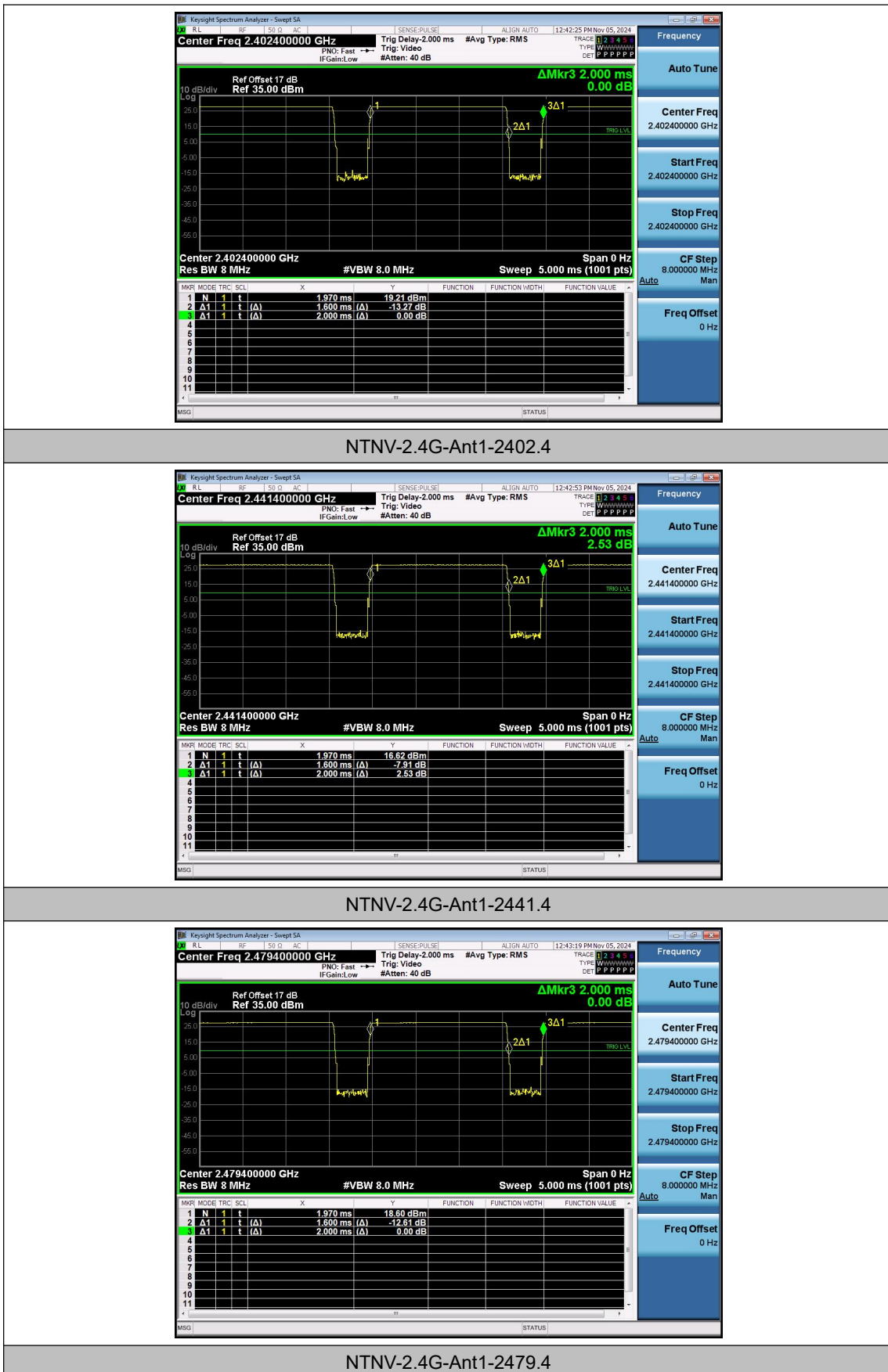
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402.4	1.60	2.00	80.00	0.97
2.4G	Ant1	2441.4	1.60	2.00	80.00	0.97
2.4G	Ant1	2479.4	1.60	2.00	80.00	0.97



Test Graphs



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