

Appendix Test Data

Report No.:	18220WC30184201	Test Sample No.:	1-2-2
Start Test Date:	2023.10.17	Finish Test Date:	2023.11.21
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.5°C	Relative Humidity:	43%
Pressure:	101kPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	1.224	2402.391	2403.615	---	---
		2441	1.224	2440.391	2441.615	---	---
		2479	1.230	2478.397	2479.627	---	---

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Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	1.0849	2402.4594	2403.5443	---	---
		2441	1.1281	2440.4481	2441.5762	---	---
		2479	1.1308	2478.4395	2479.5703	---	---

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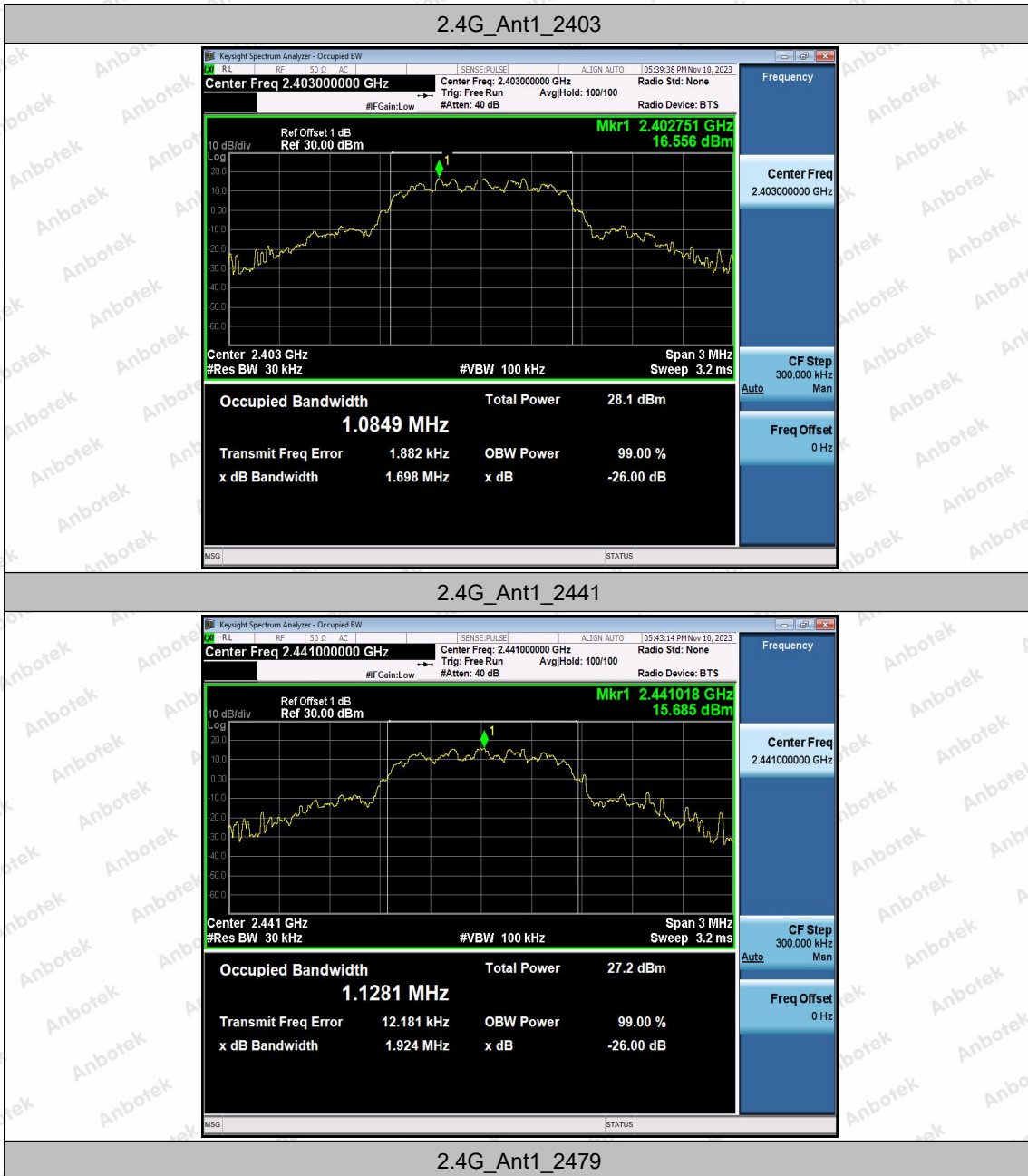
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Test Graphs



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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	20.75	≤20.97	PASS
		2441	20.38	≤20.97	PASS
		2479	20.15	≤20.97	PASS



Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479

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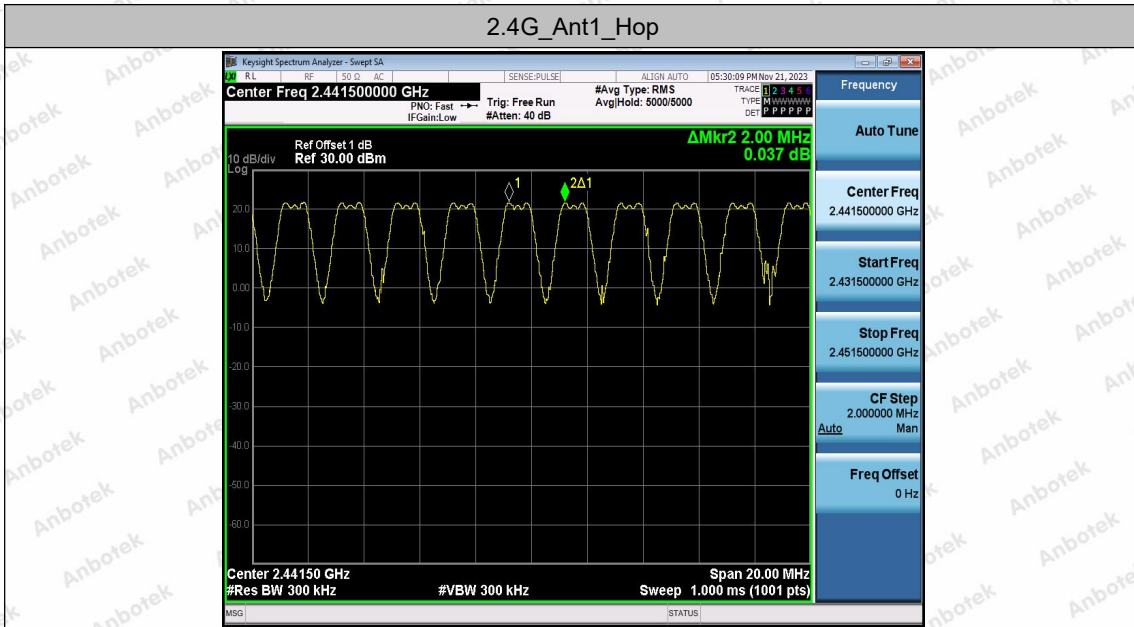
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥1.230	PASS



Test Graphs



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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	4.164	19	0.079	≤0.4	PASS

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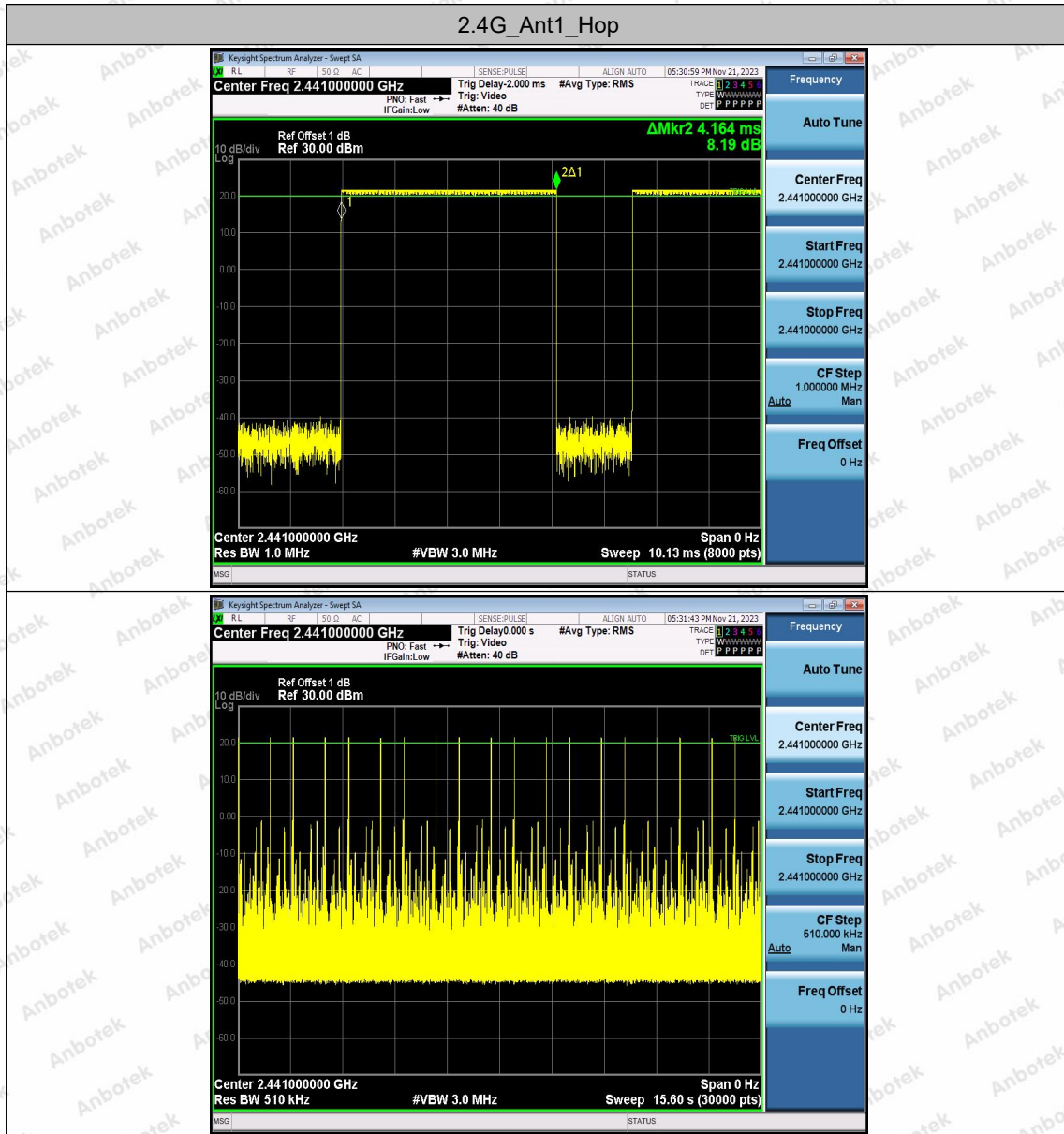
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Test Graphs



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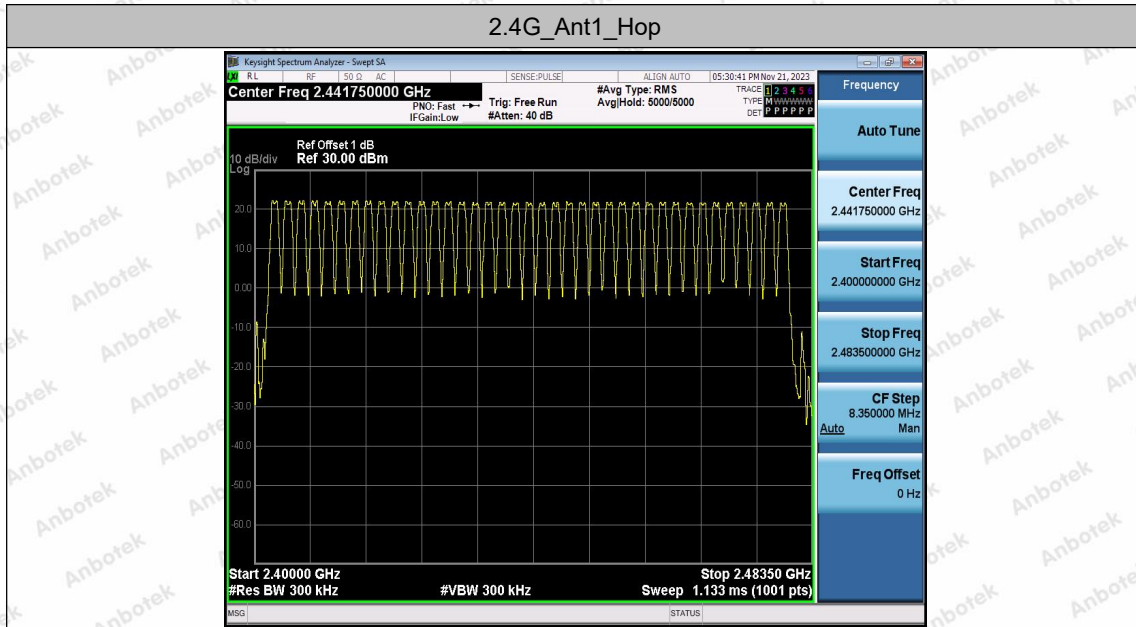
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	39	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	19.74	-21.12	≤-0.26	PASS
		High	2479	19.41	-26.61	≤-0.59	PASS
		Low	Hop_2403	20.14	-32.62	≤0.14	PASS
		High	Hop_2479	19.93	-35.84	≤-0.07	PASS

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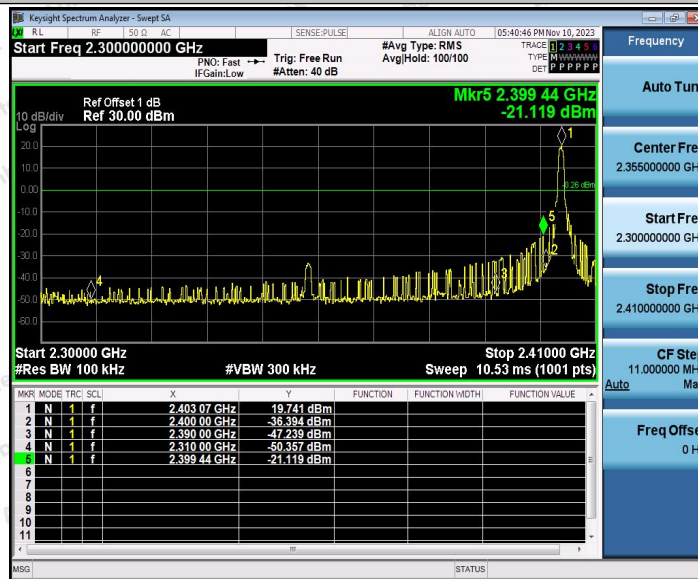


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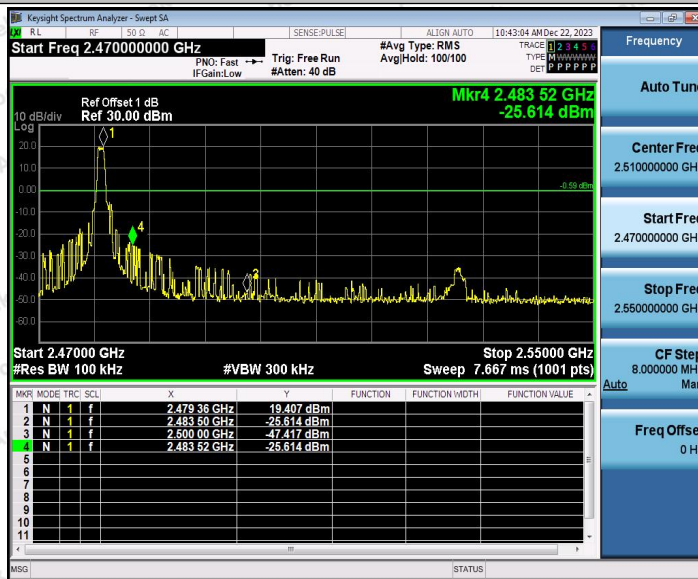


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2479



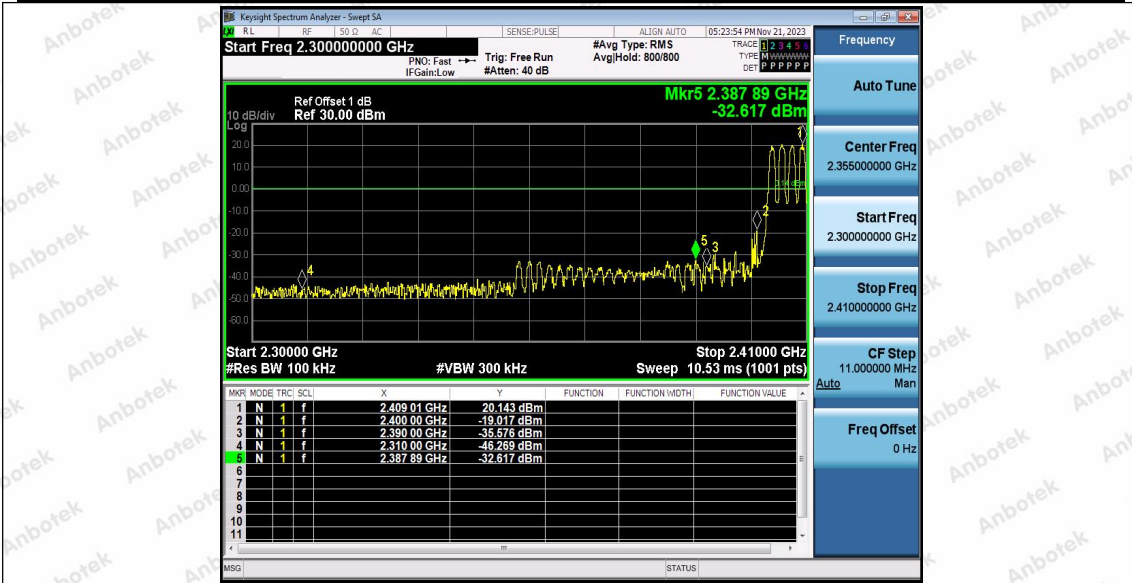
2.4G_Ant1_Low_Hop_2403

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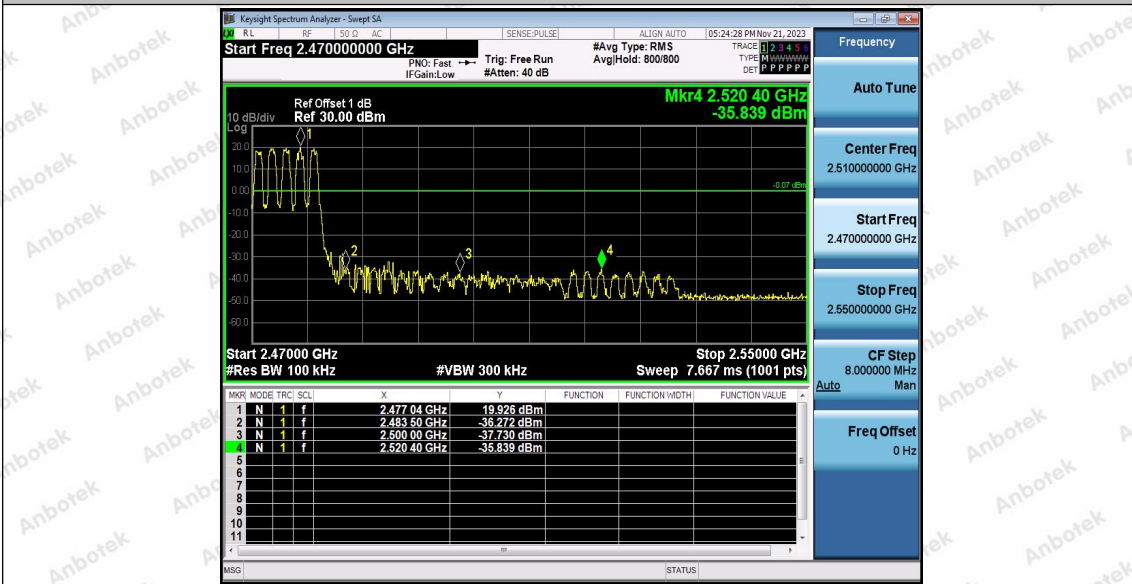
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2.4G_Ant1_High_Hop_2479



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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	2403	Reference	20.17	20.17	---	PASS
			30~1000	20.17	-38.86	≤0.17	PASS
			1000~26500	20.17	-24.35	≤0.17	PASS
		2441	Reference	19.86	19.86	---	PASS
			30~1000	19.86	-38.95	≤-0.14	PASS
			1000~26500	19.86	-22.04	≤-0.14	PASS
		2479	Reference	19.53	19.53	---	PASS
			30~1000	19.53	-33.7	≤-0.47	PASS
			1000~26500	19.53	-19.38	≤-0.47	PASS

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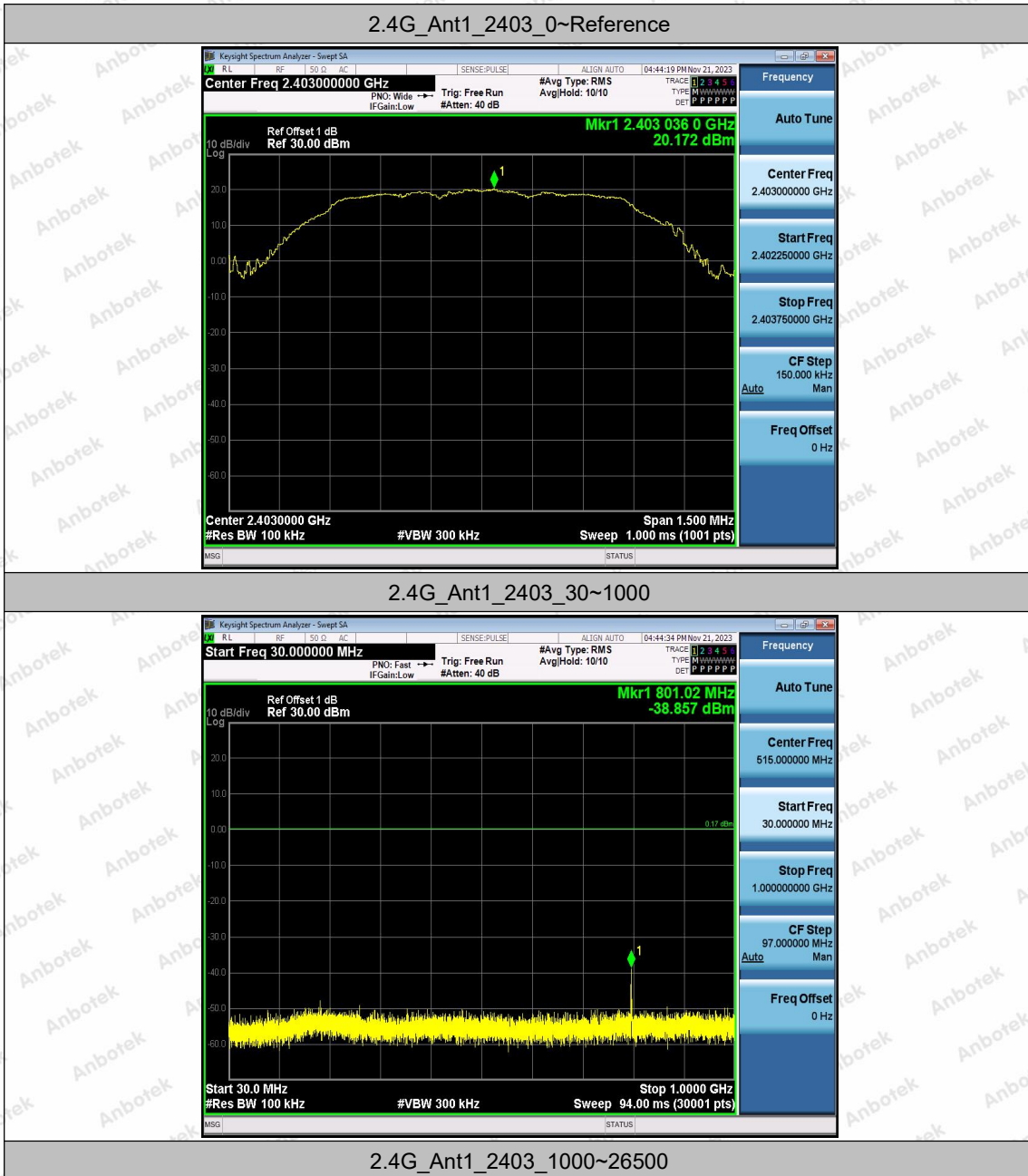
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Test Graphs

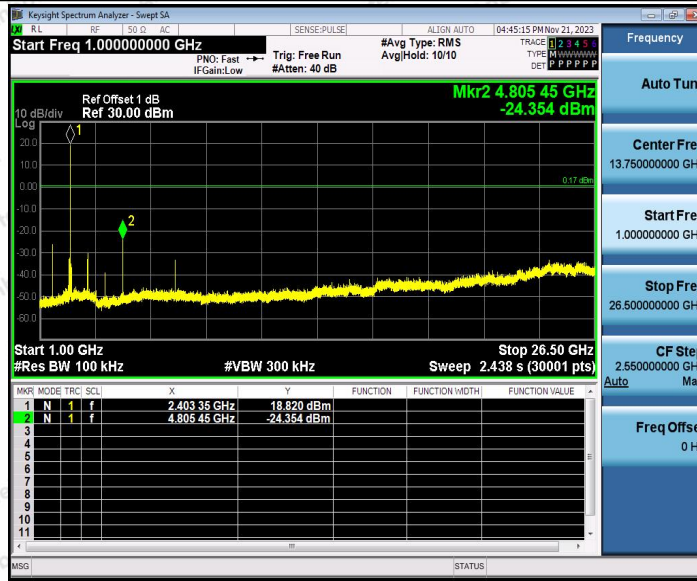


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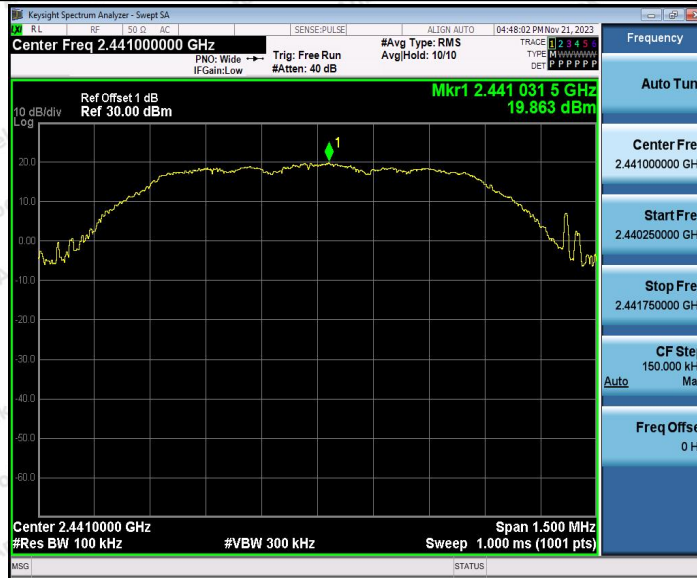
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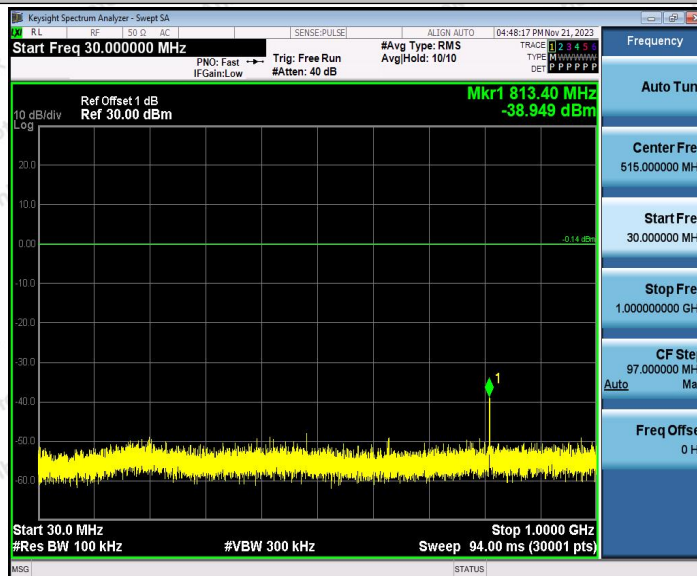




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000

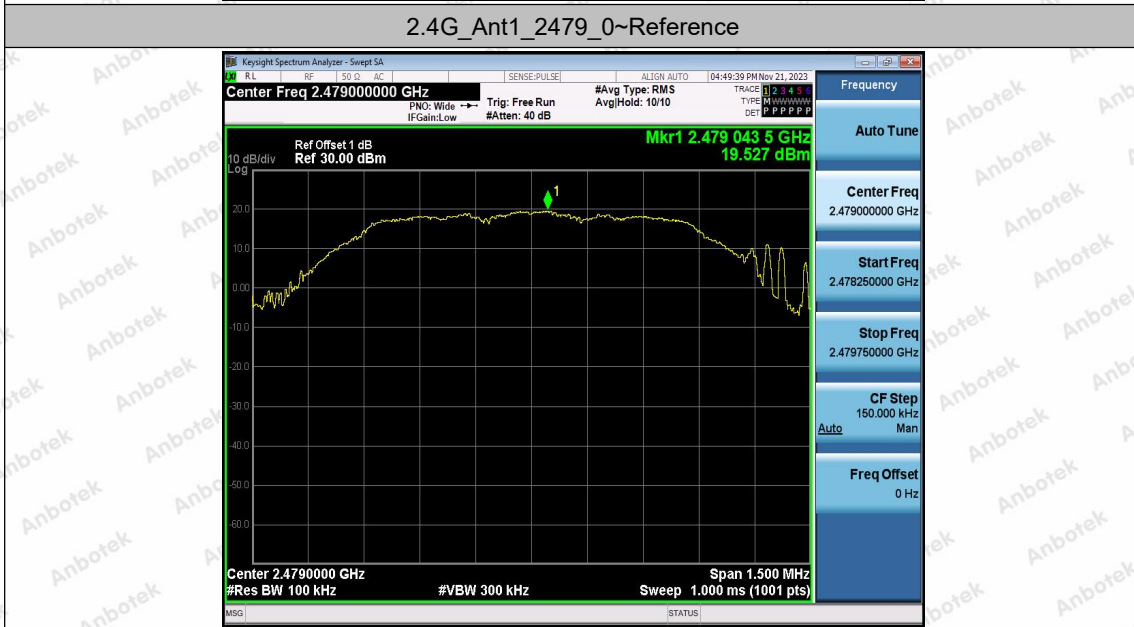
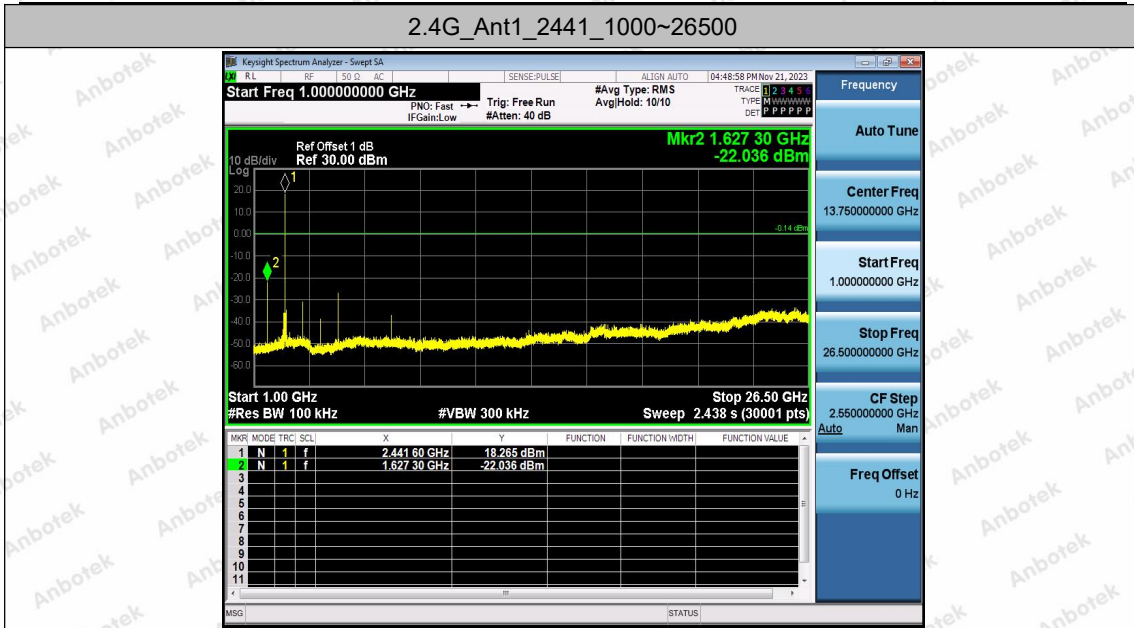


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2.4G_Ant1_2479_30~1000

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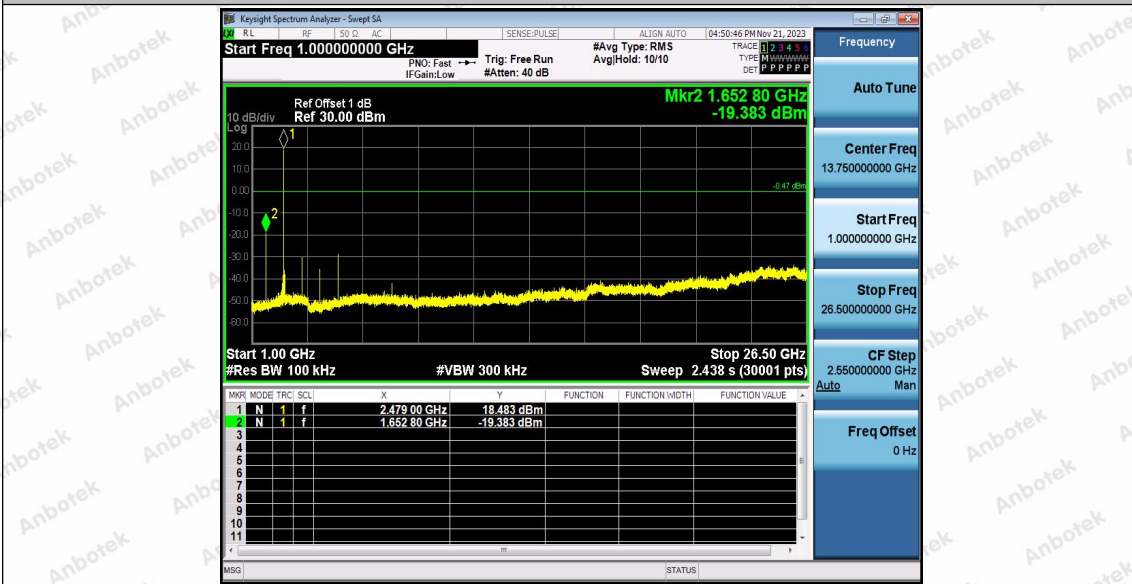
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2.4G_Ant1_2479_1000~26500



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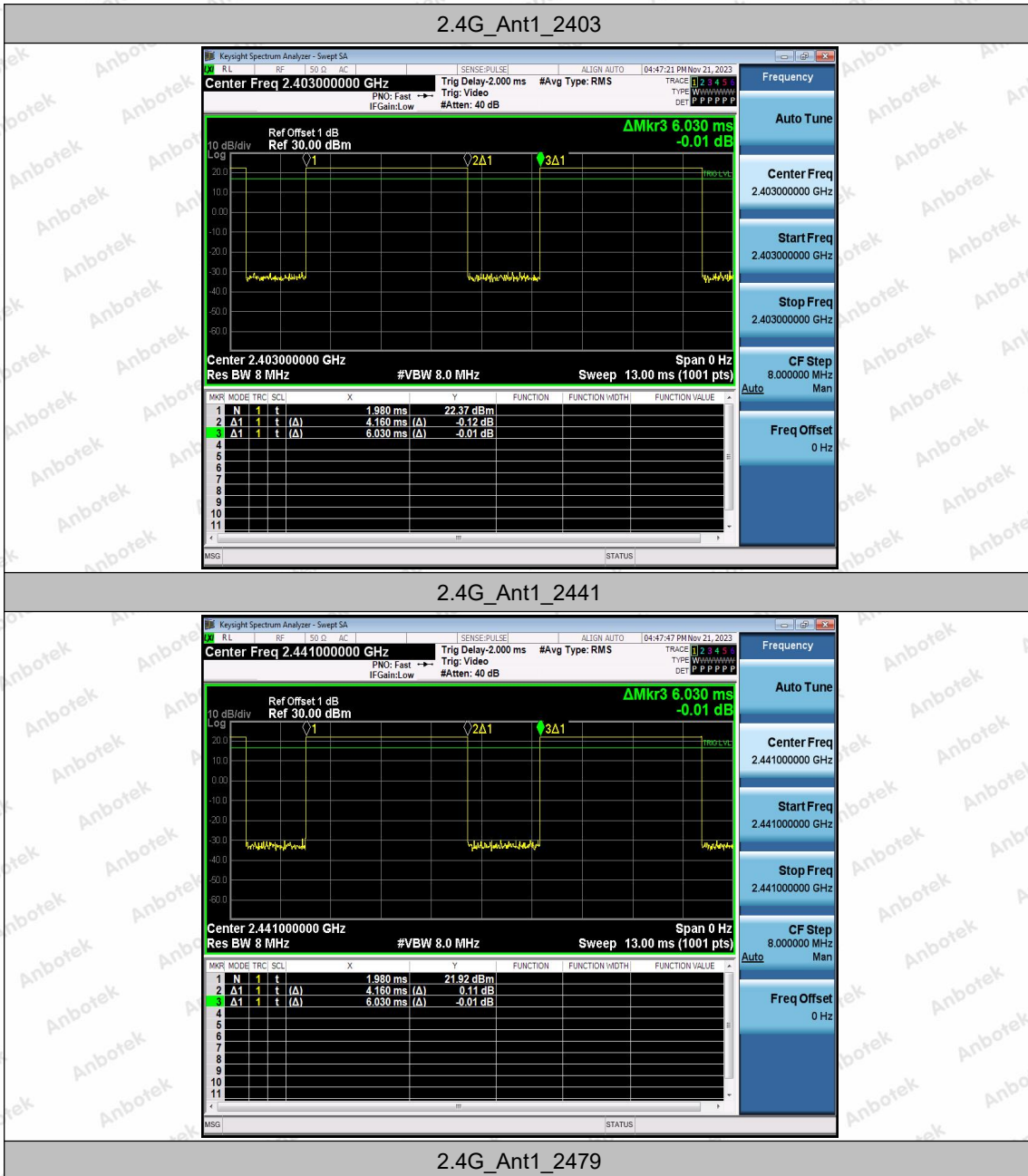
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	4.16	6.03	68.99	1.61
		2441	4.16	6.03	68.99	1.61
		2479	4.16	6.04	68.87	1.62



Test Graphs

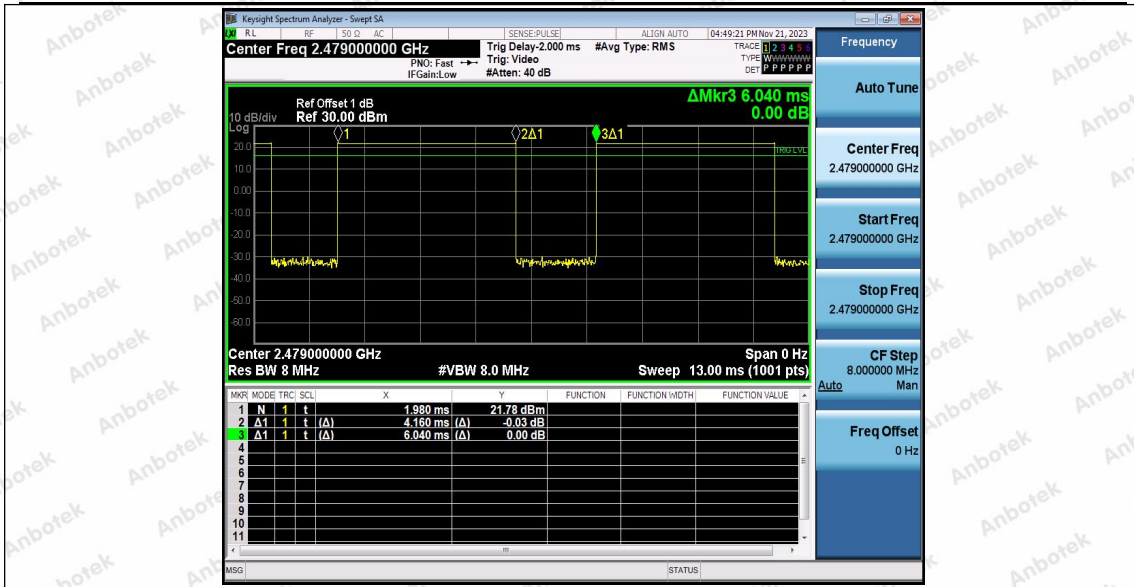


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