

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	2418	1.254	2417.373	2418.627	---	---
		2435.2	1.269	2434.405	2435.674	---	---
		2459.2	1.377	2458.318	2459.695	---	---

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Test Graphs

2.4G_Ant1_2418



2.4G_Ant1_2435.2



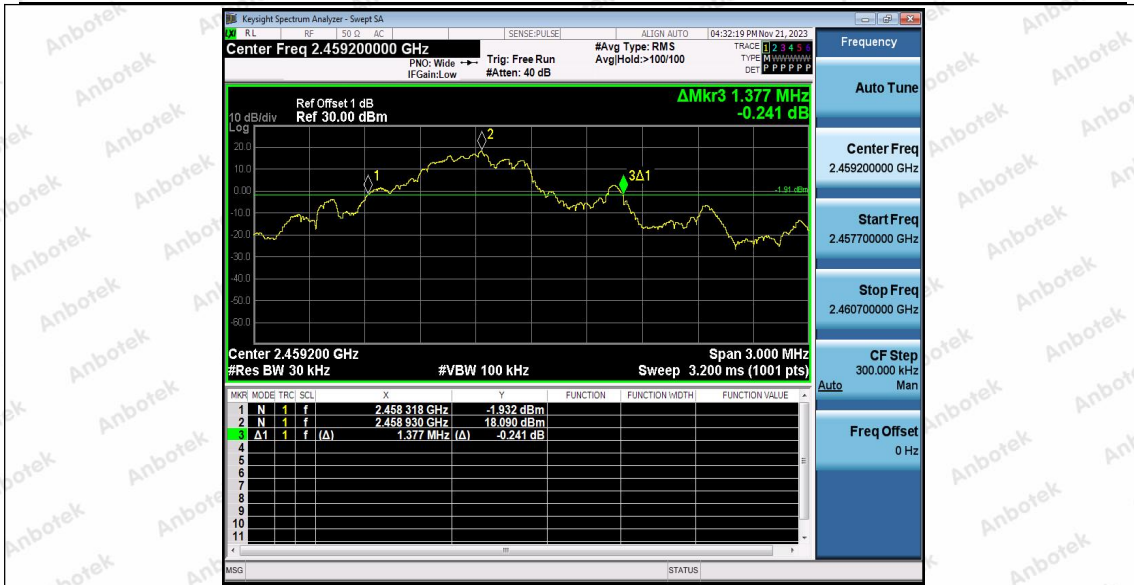
2.4G_Ant1_2459.2

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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	2418	1.0874	2417.3824	2418.4698	---	---
		2435.2	1.2296	2434.4017	2435.6313	---	---
		2459.2	1.3297	2458.3326	2459.6623	---	---

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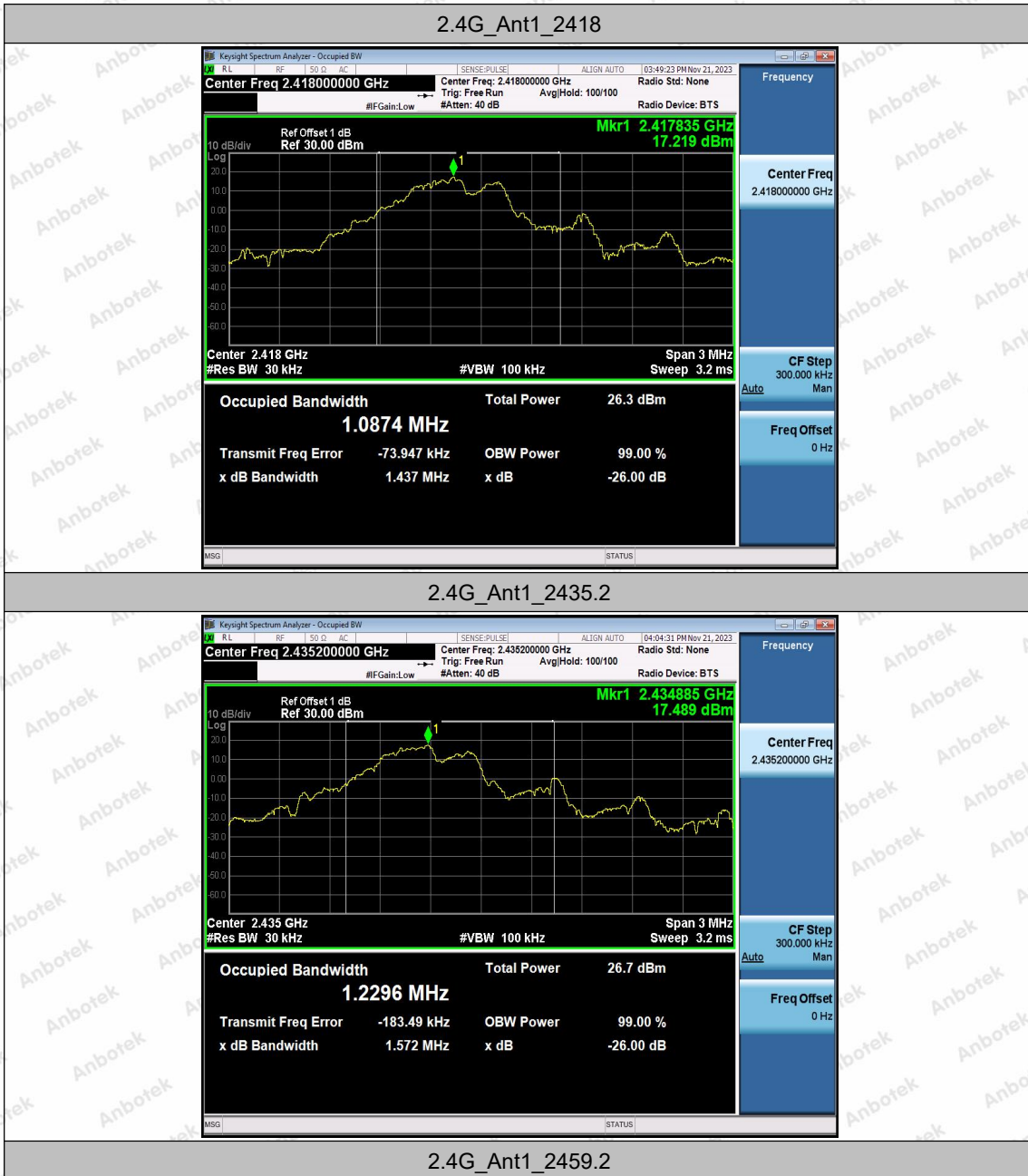
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Test Graphs



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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	2418	19.27	≤30	PASS
		2435.2	19.49	≤30	PASS
		2459.2	19.84	≤30	PASS

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Test Graphs



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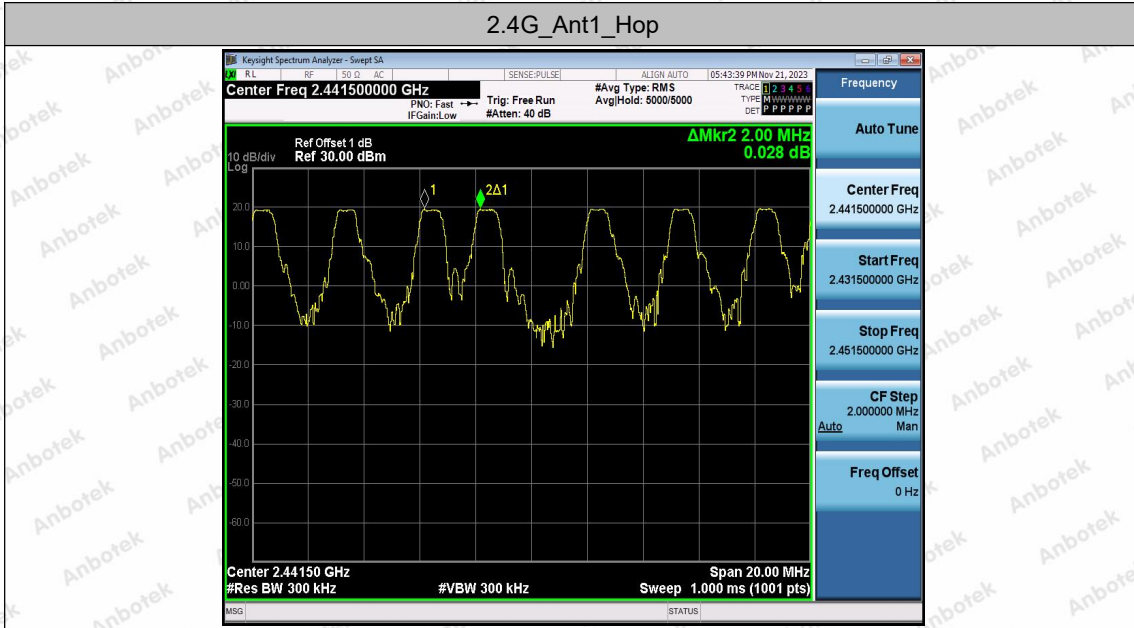
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥1.377	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	0.333	60	0.02	≤0.4	PASS

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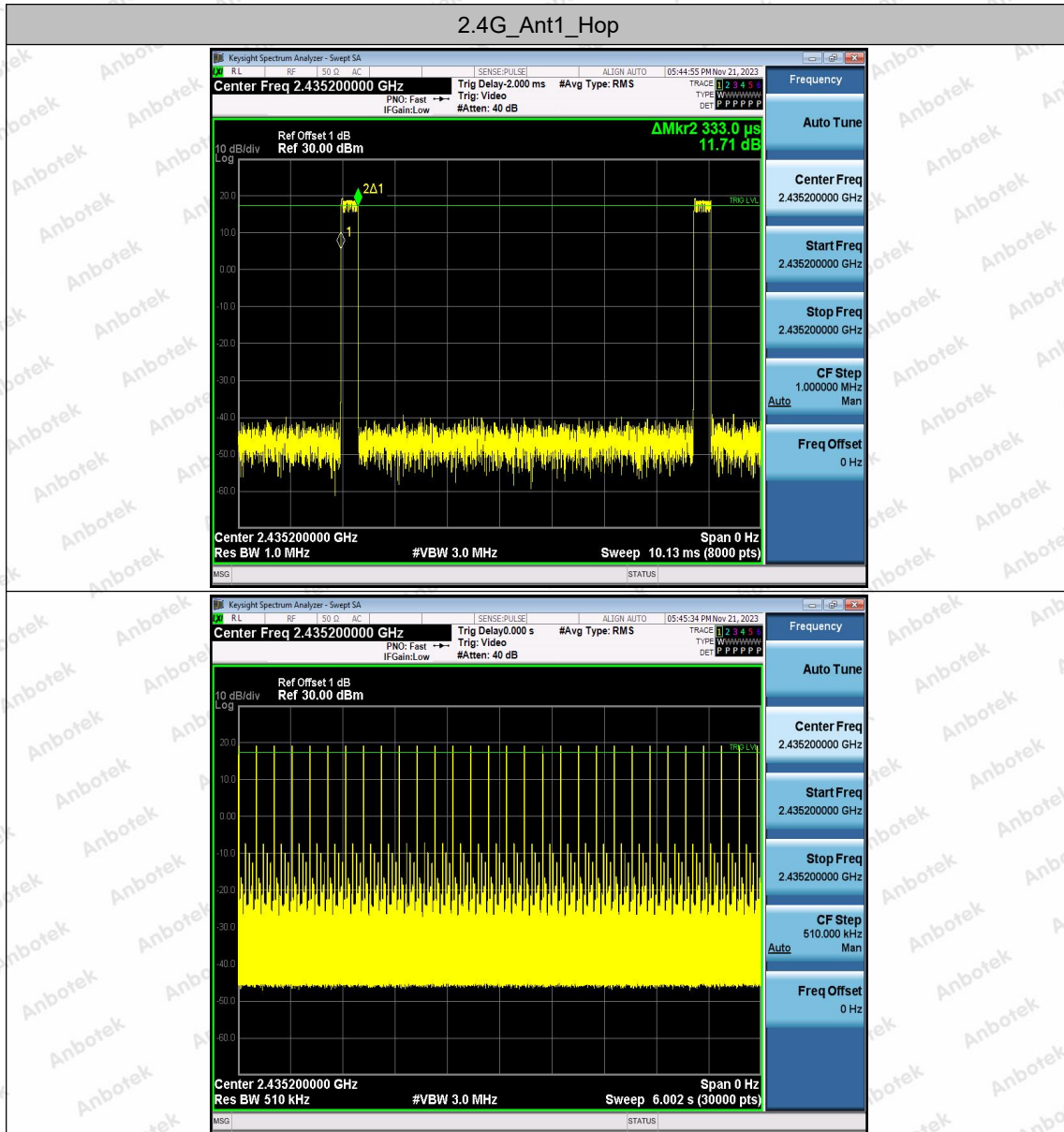
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Test Graphs



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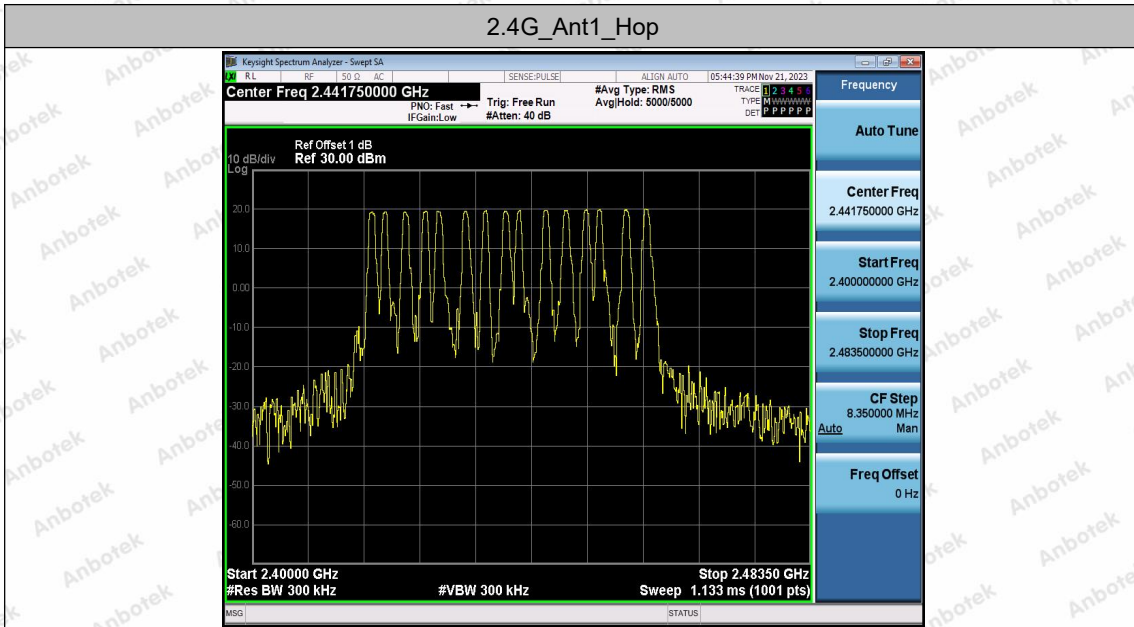
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	15	≥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	2418	19.19	-37.45	≤-0.81	PASS
		High	2459.2	19.60	-38.52	≤-0.4	PASS
		Low	Hop_2418	18.40	-42.4	≤-1.6	PASS
		High	Hop_2459.2	19.28	-42.78	≤-0.72	PASS

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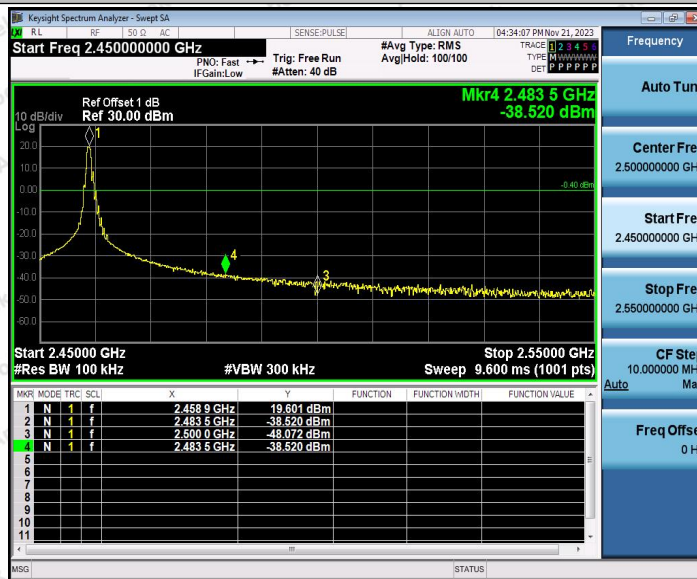


Test Graphs

2.4G_Ant1_Low_2418



2.4G_Ant1_High_2459.2



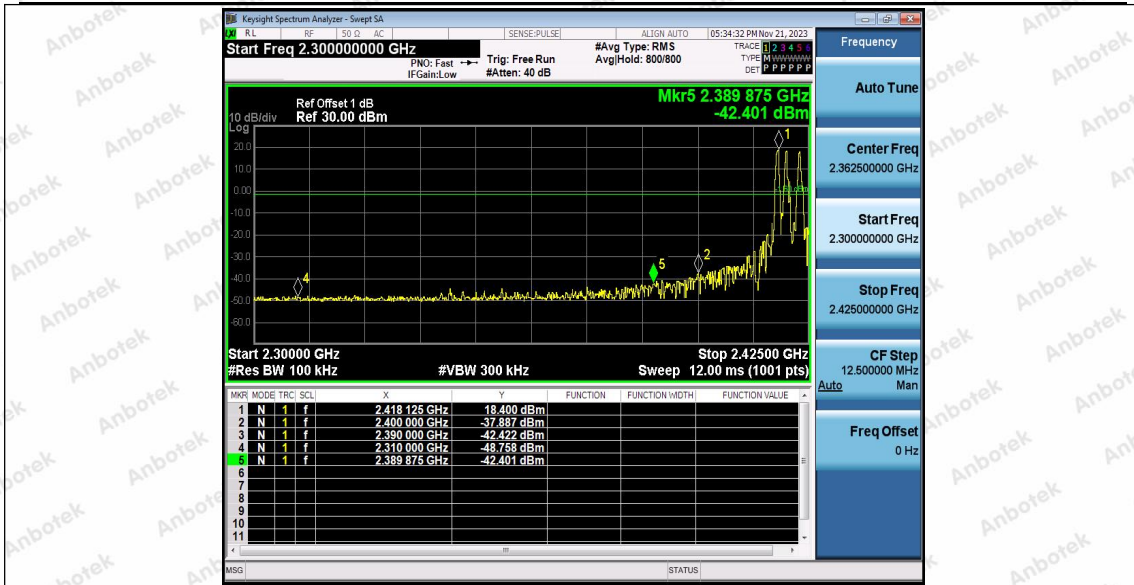
2.4G_Ant1_Low_Hop_2418

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2.4G_Ant1_High_Hop_2459.2



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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	2418	Reference	19.00	19.00	---	PASS
			30~1000	19.00	-48.6	≤-1	PASS
			1000~26500	19.00	-27.3	≤-1	PASS
		2435.2	Reference	19.14	19.14	---	PASS
			30~1000	19.14	-48.79	≤-0.86	PASS
			1000~26500	19.14	-29.47	≤-0.86	PASS
		2459.2	Reference	19.55	19.55	---	PASS
			30~1000	19.55	-48.51	≤-0.45	PASS
			1000~26500	19.55	-30.04	≤-0.45	PASS

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Test Graphs

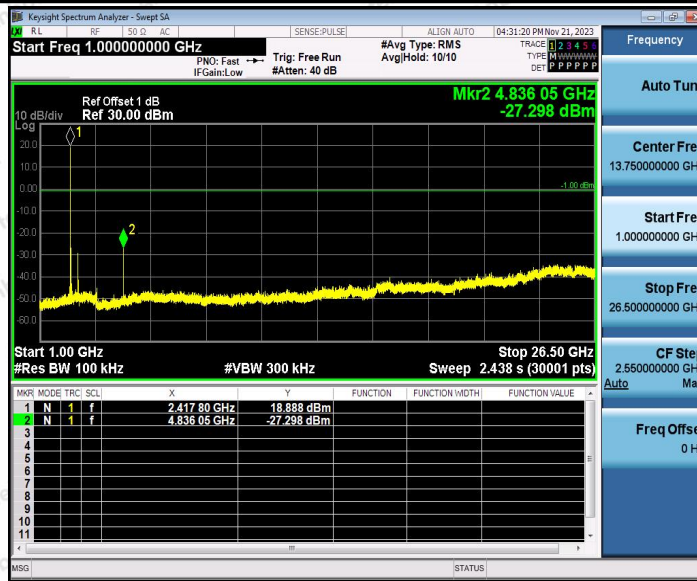


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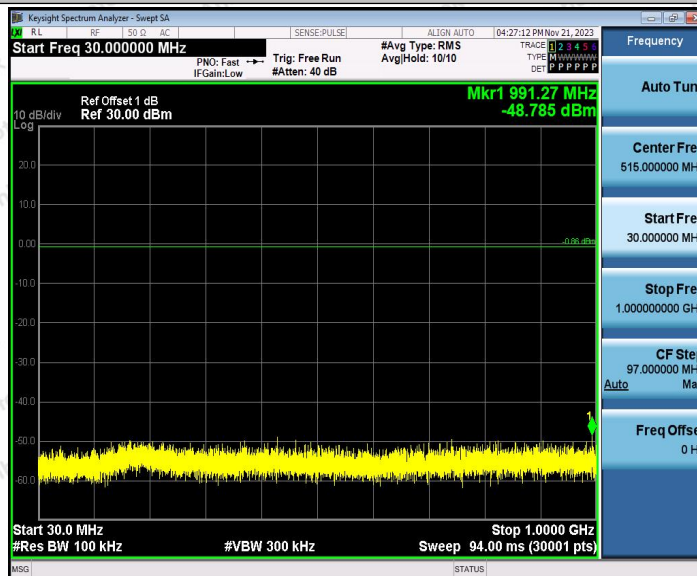




2.4G_Ant1_2435.2_0~Reference



2.4G_Ant1_2435.2_30~1000

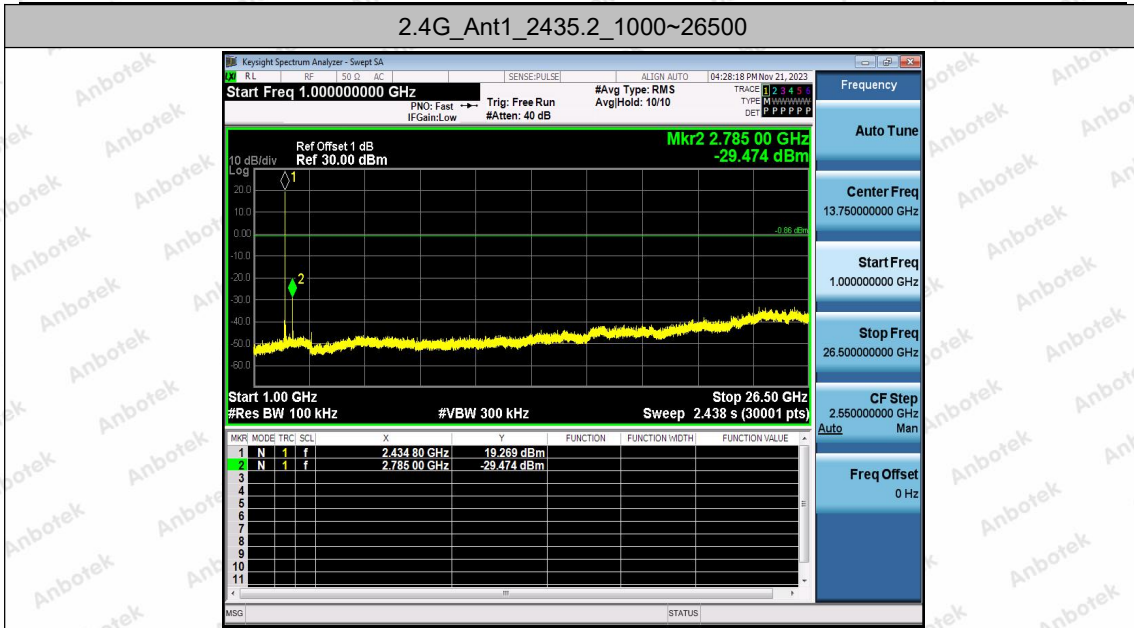


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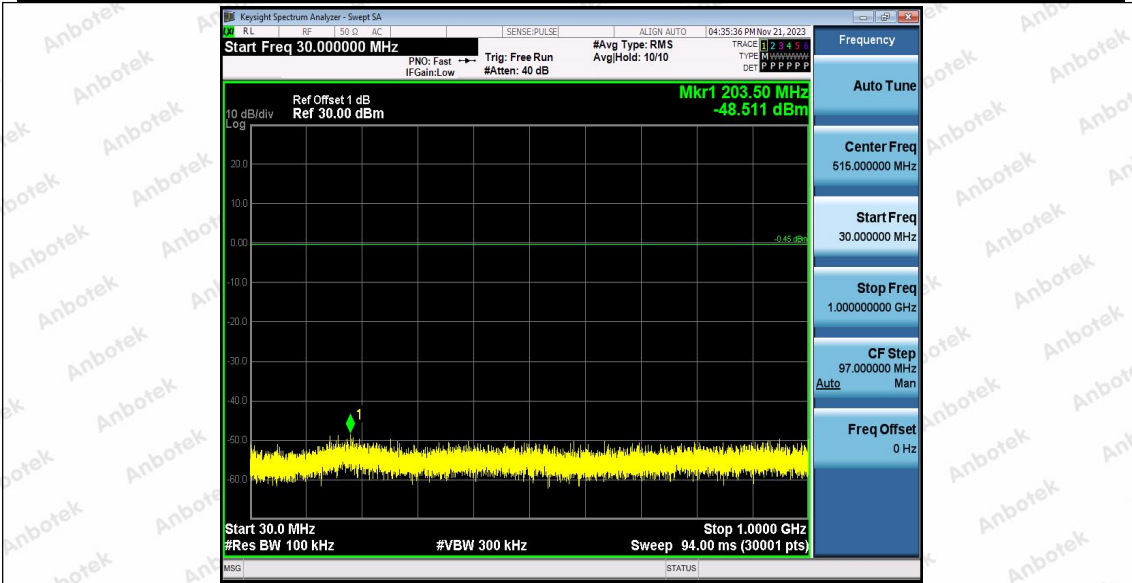
2.4G_Ant1_2459.2_30~1000

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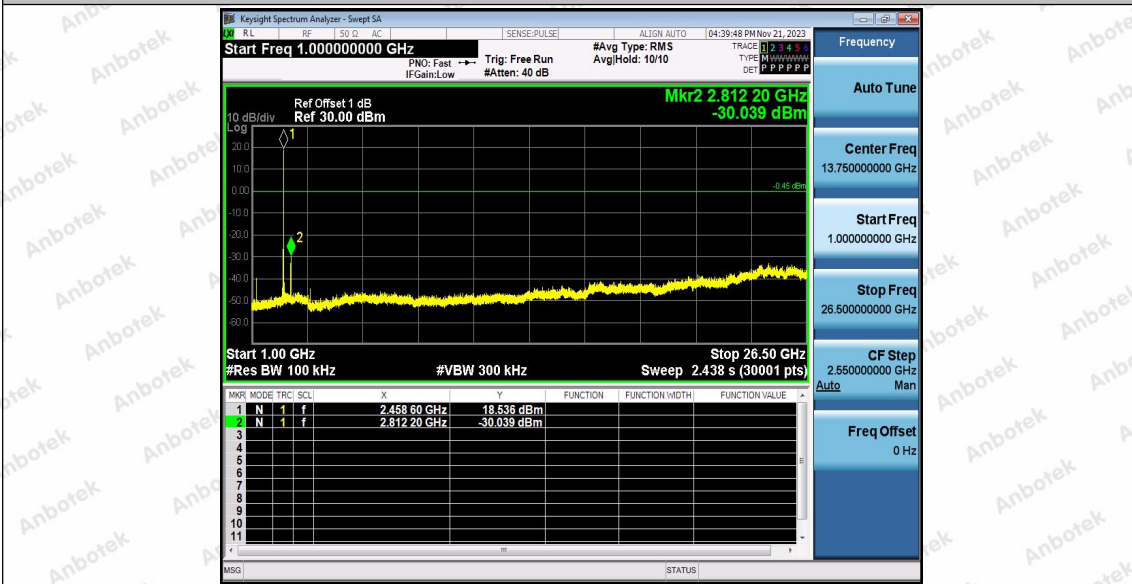
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2.4G_Ant1_2459.2_1000~26500



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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	2418	0.34	6.84	4.97	13.04
		2435.2	0.34	6.84	4.97	13.04
		2459.2	0.34	6.84	4.97	13.04

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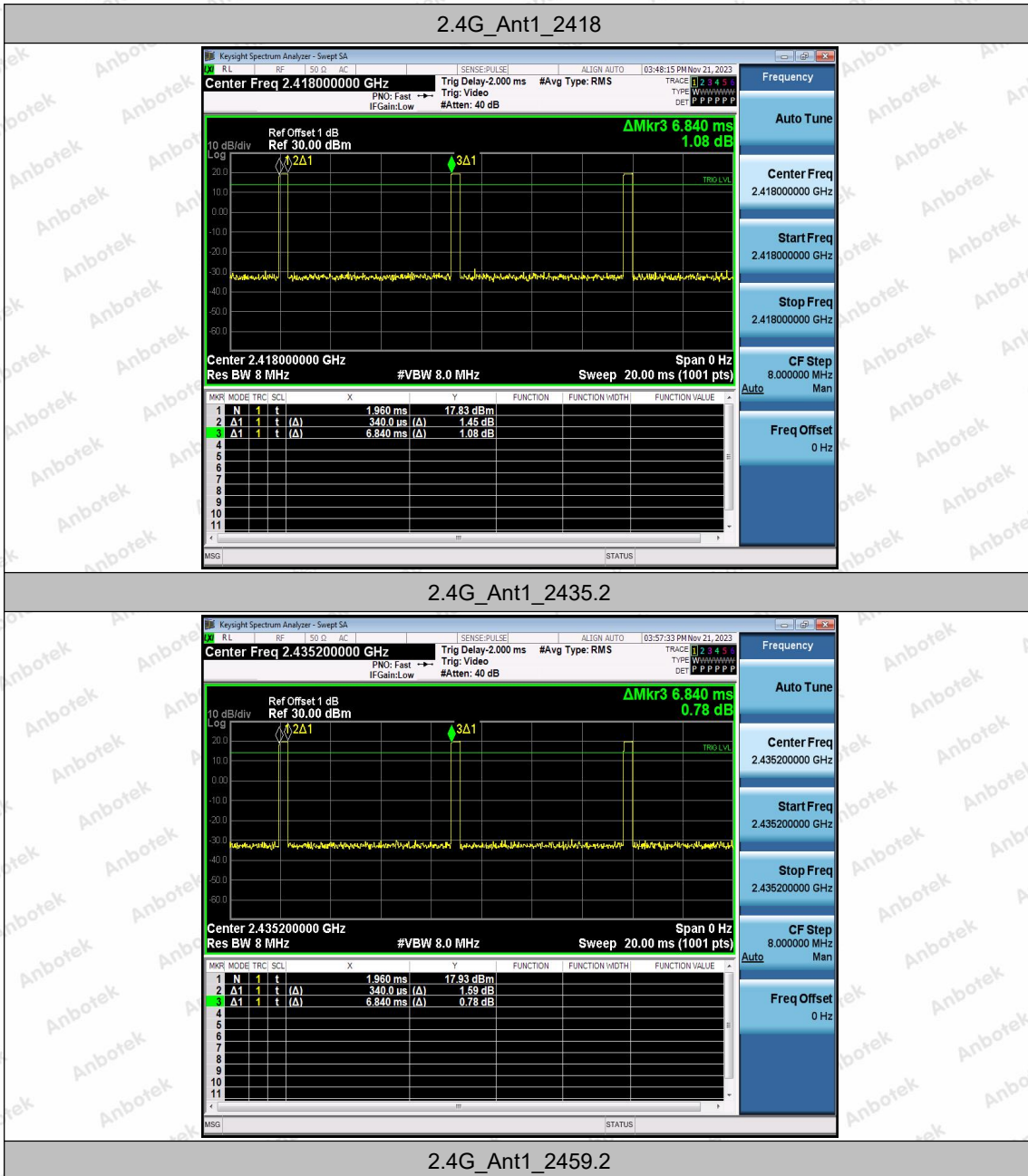
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Test Graphs

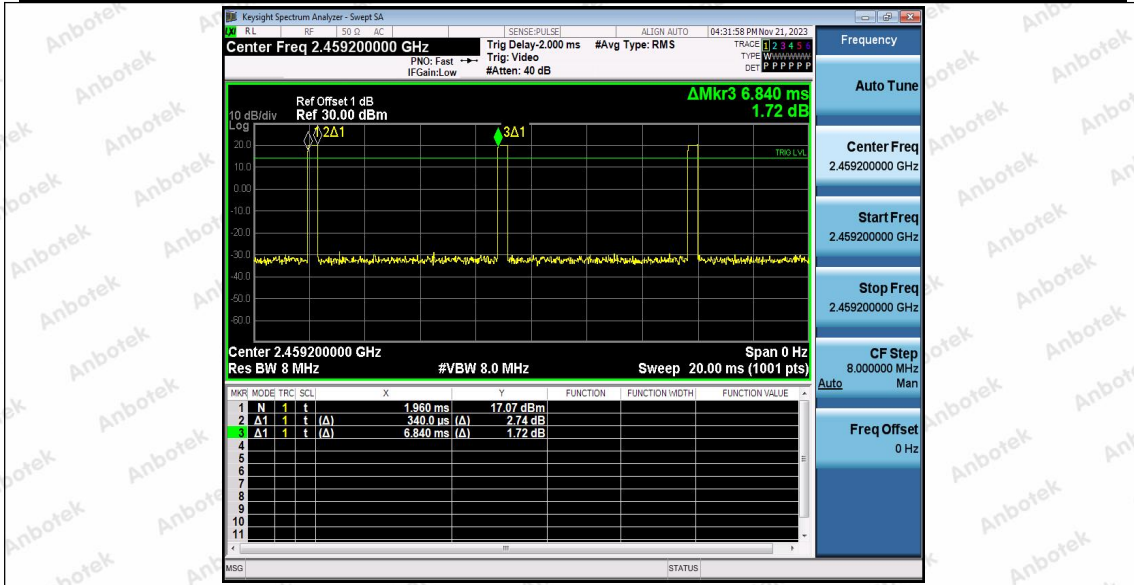


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