

Appendix Test Data

Report No.:	18220WC302589	Test Sample No.:	1-2-2
Start Test Date:	2023.12.11	Finish Test Date:	2023.12.13
Test Engineer:	Hayman Chen	Auditor:	RICK Luo
Temperature:	25.3°C	Relative Humidity:	46%
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	2402	1.092	2401.469	2402.561	---	---
		2441	1.074	2440.478	2441.552	---	---
		2480	1.068	2479.490	2480.558	---	---

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Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



2.4G_Ant1_2480

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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	2402	1.0518	2401.4887	2402.5405	---	---
		2441	1.0324	2440.4938	2441.5262	---	---
		2480	1.0463	2479.4891	2480.5354	---	---

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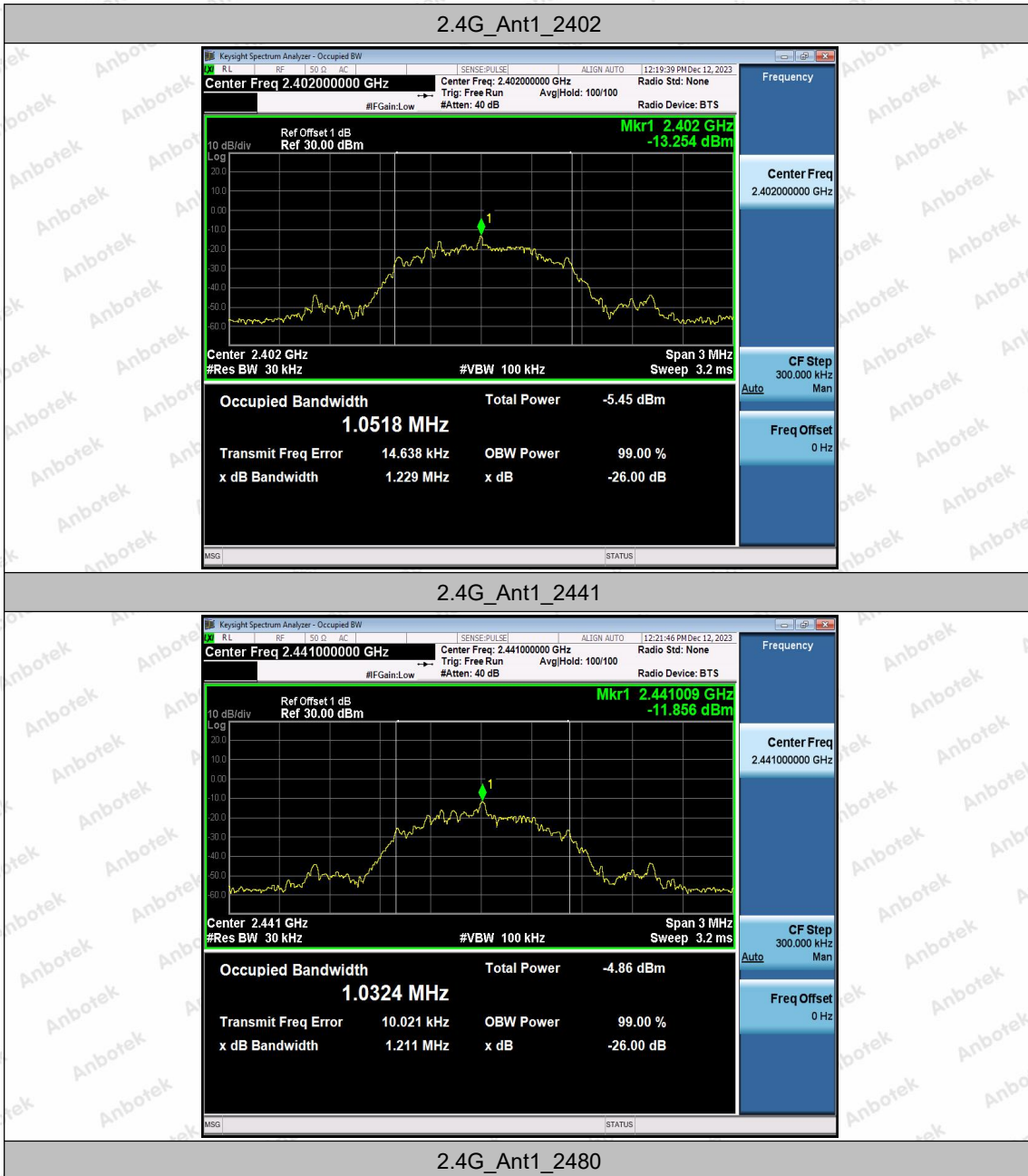
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Test Graphs



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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	2402	-10.28	≤20.97	PASS
		2441	-10.64	≤20.97	PASS
		2480	-10.96	≤20.97	PASS

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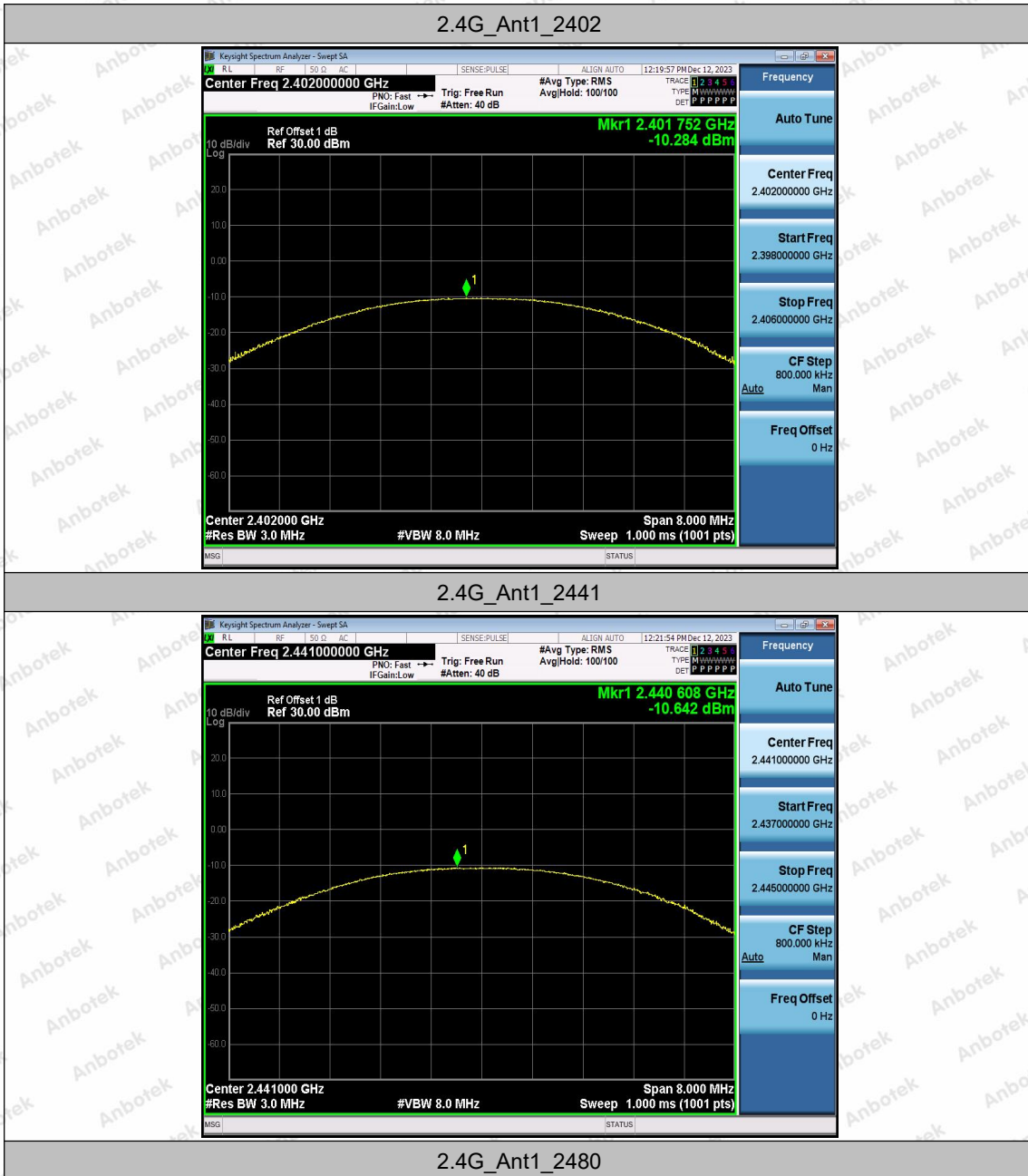
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.02	≥0.728	PASS

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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	2.877	108	0.311	≤0.4	PASS

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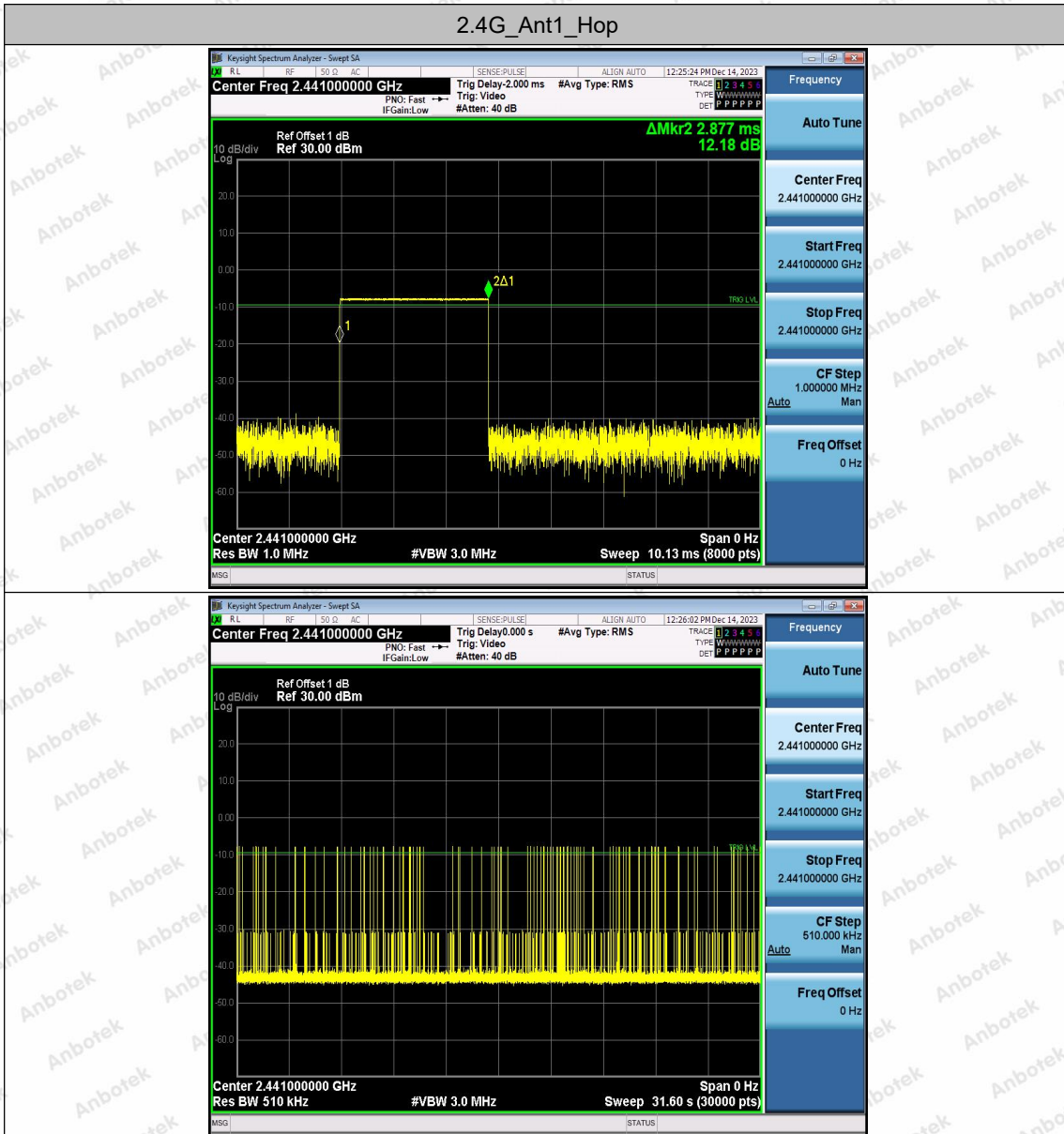
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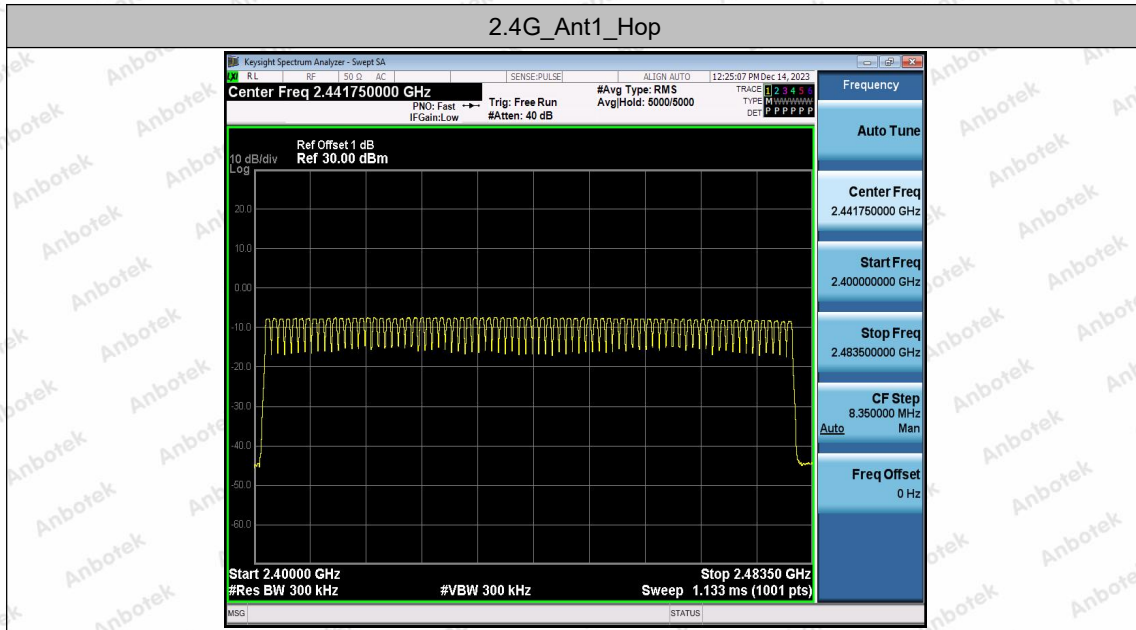
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	79	≥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	2402	-11.71	-55.26	≤-31.71	PASS
		High	2480	-12.05	-56.11	≤-32.05	PASS
		Low	Hop_2402	-8.55	-57.48	≤-28.55	PASS
		High	Hop_2480	-8.66	-55.78	≤-28.66	PASS

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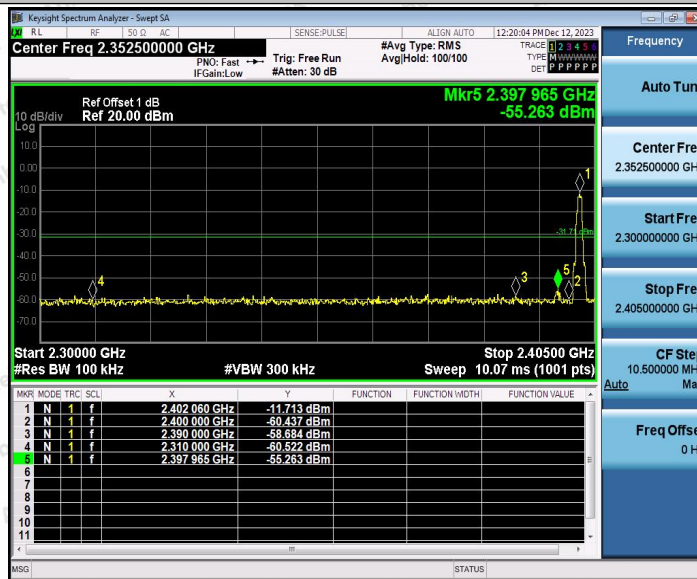


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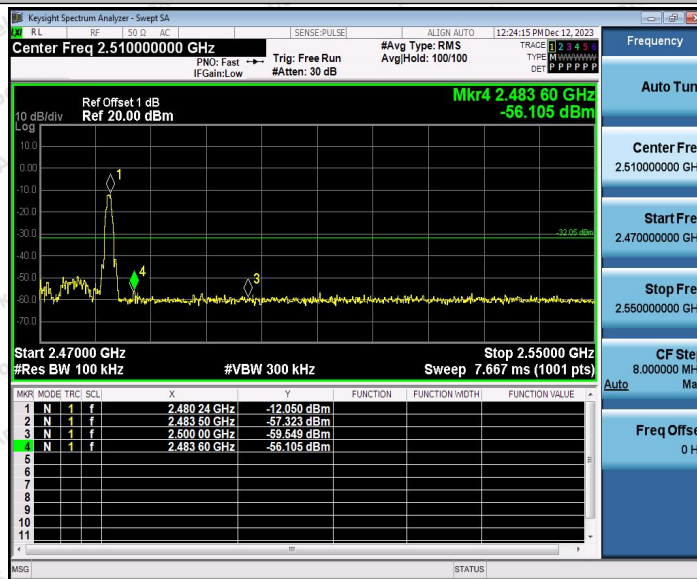


Test Graphs

2.4G_Ant1_Low_2402



2.4G_Ant1_High_2480



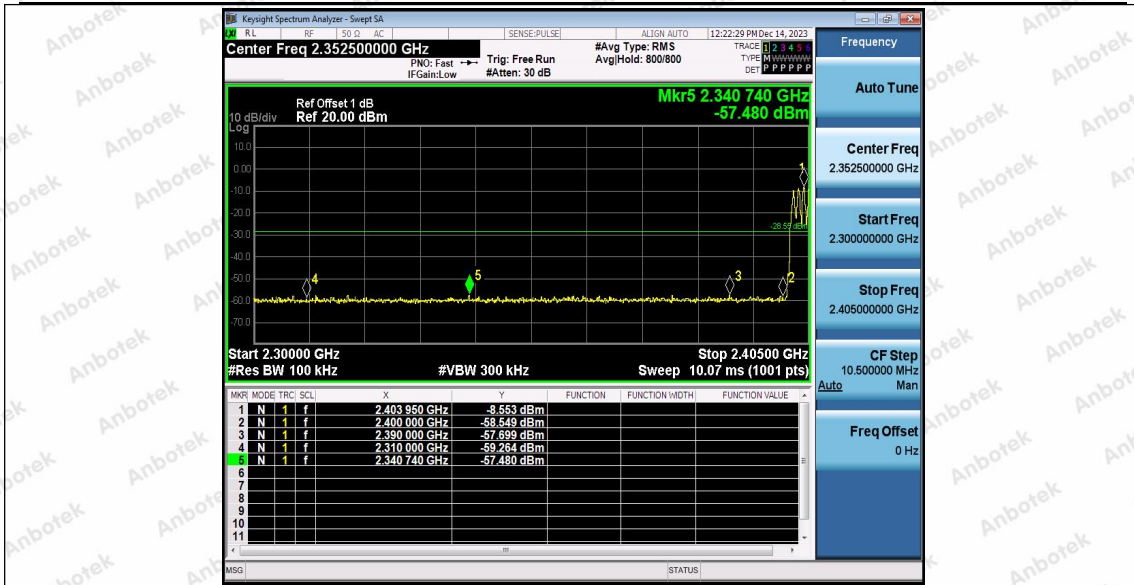
2.4G_Ant1_Low_Hop_2402

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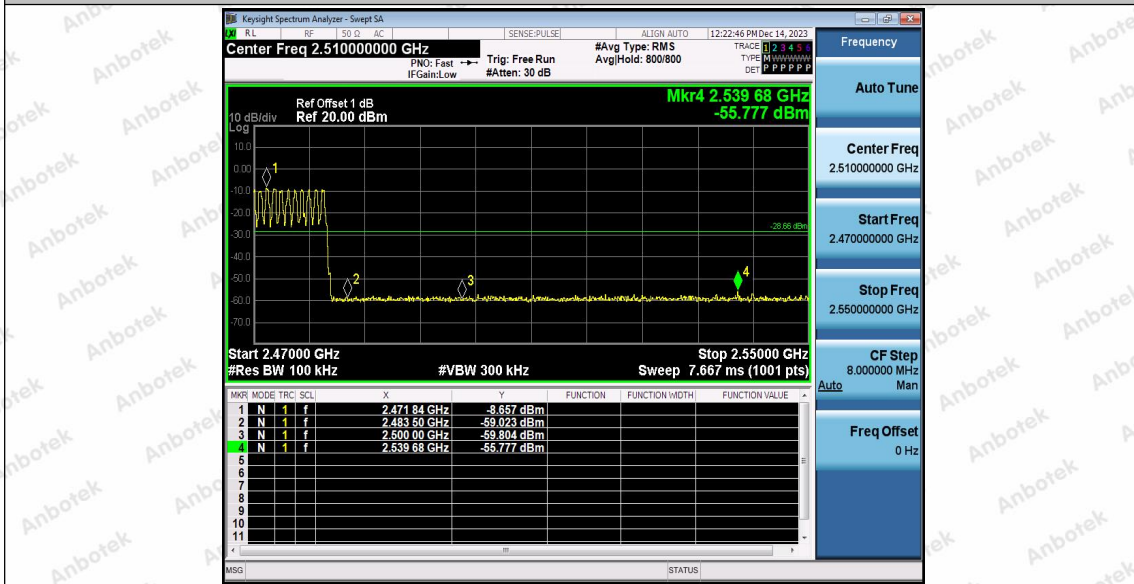
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2.4G_Ant1_High_Hop_2480



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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	Reference	-11.46	-11.46	---	PASS
			30~1000	-11.46	-67.44	≤-31.46	PASS
			1000~26500	-11.46	-40.82	≤-31.46	PASS
		2441	Reference	-11.79	-11.79	---	PASS
			30~1000	-11.79	-68.97	≤-31.79	PASS
			1000~26500	-11.79	-36.95	≤-31.79	PASS
		2480	Reference	-14.07	-14.07	---	PASS
			30~1000	-14.07	-65.89	≤-34.07	PASS
			1000~26500	-14.07	-35.75	≤-34.07	PASS

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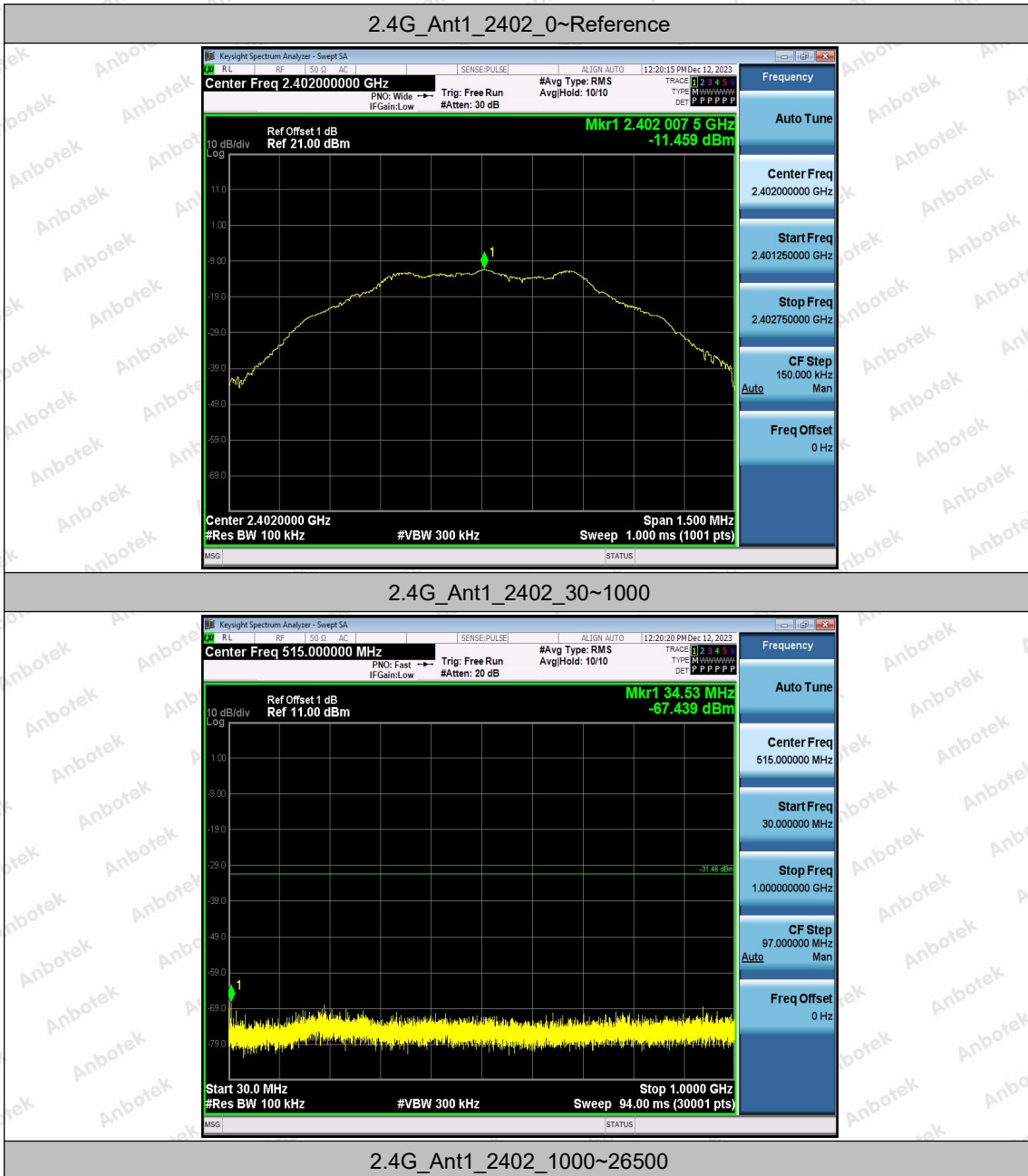
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Test Graphs

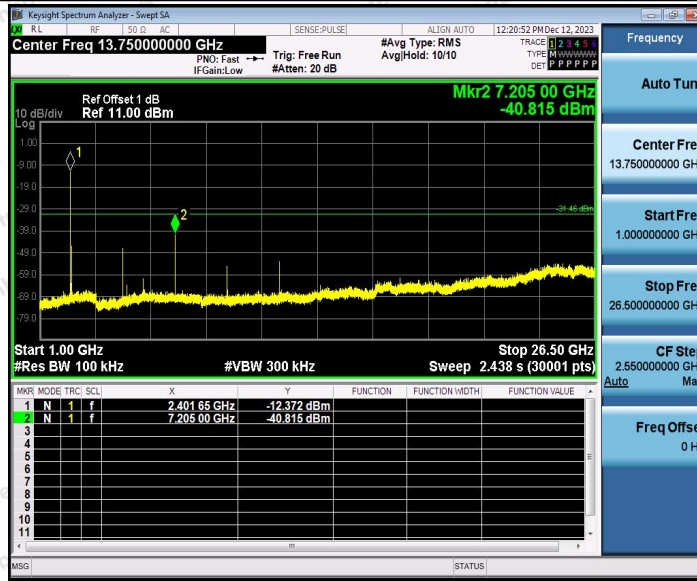


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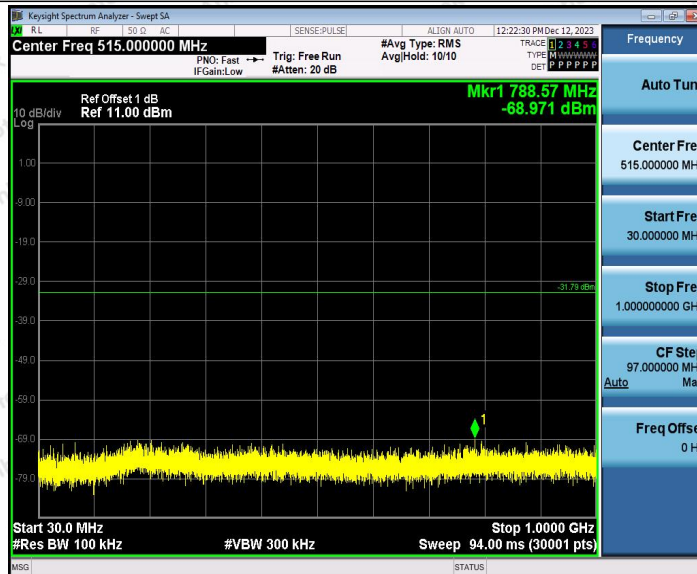




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



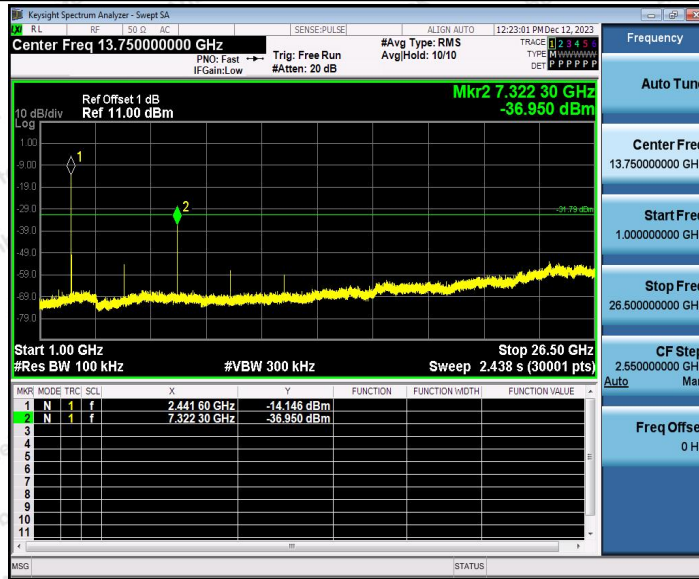
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2480_0~Reference



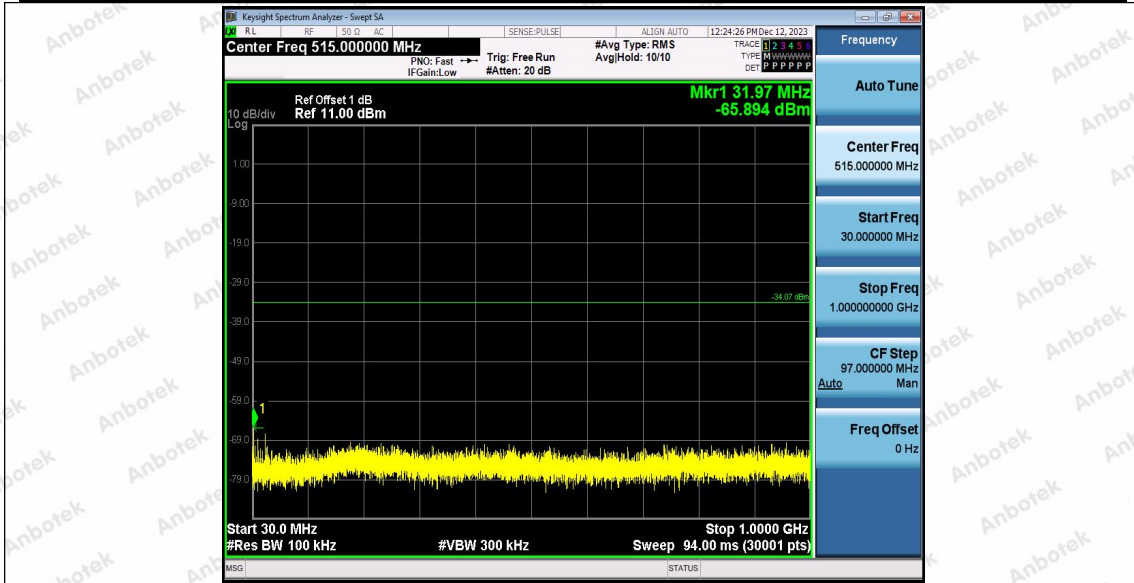
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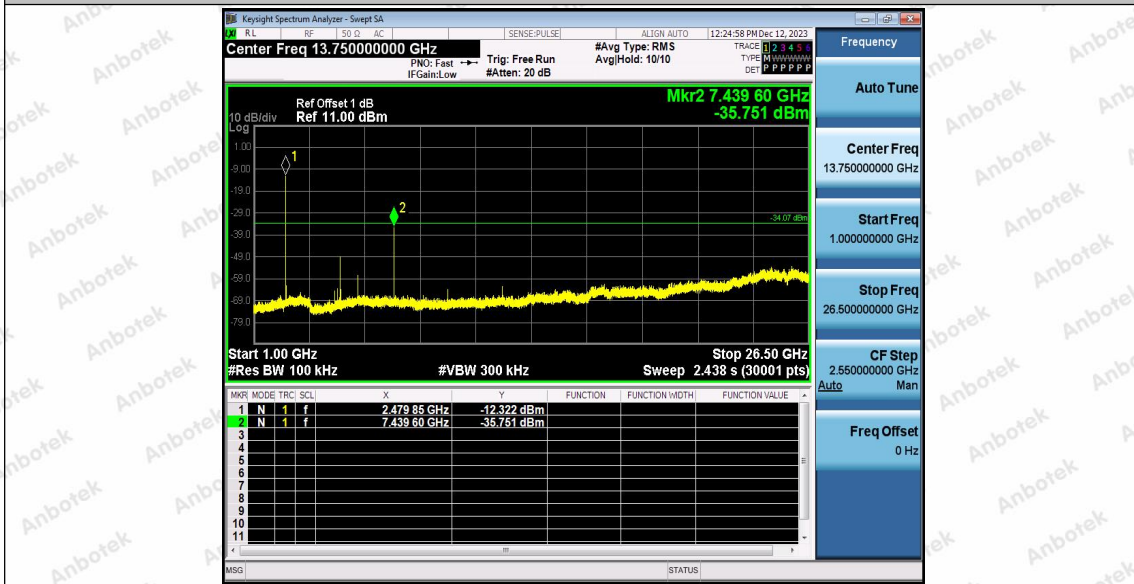
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2.4G_Ant1_2480_1000~26500



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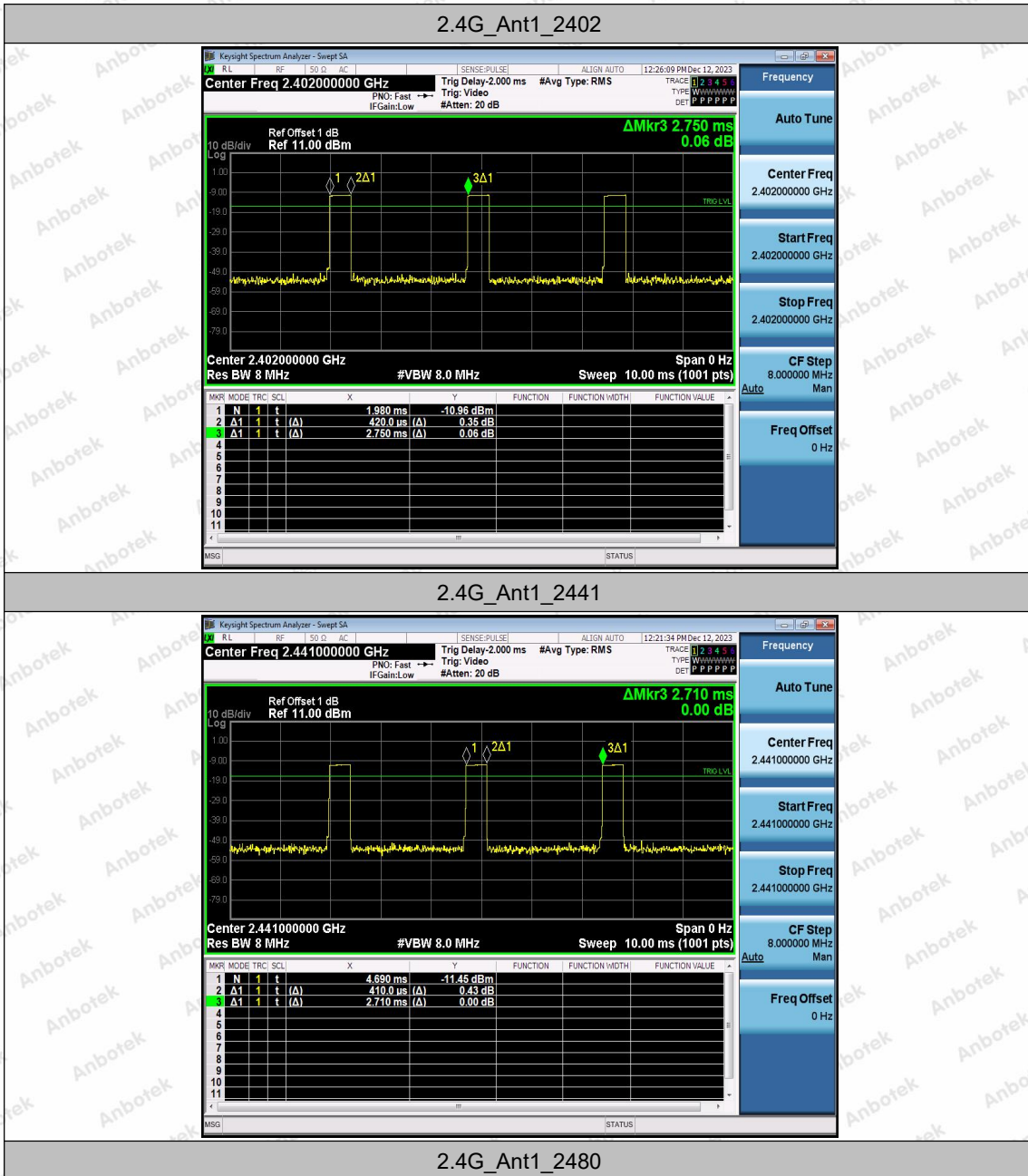
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402	0.42	2.75	15.27	8.16
		2441	0.41	2.71	15.13	8.20
		2480	0.41	2.71	15.13	8.20



Test Graphs

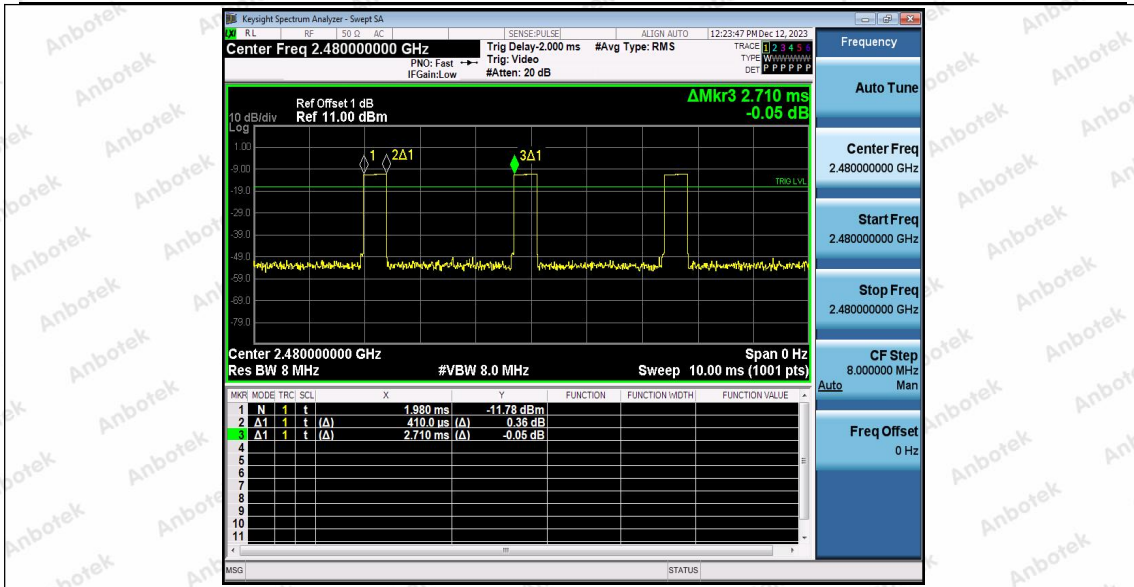


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