

Appendix Test Data

Report No.:	18220WC30058501	Test Sample No.:	1-2-2
Start Test Date:	2023.04.07	Finish Test Date:	2023.04.13
Test Engineer:	Rock Luo	Auditor:	Edward Pan
Temperature:	25.1℃	Relative Humidity:	47%
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2408	2.064	2406.908	2408.972	---	---
		2436	2.058	2434.935	2436.993	---	---
		2468	2.061	2466.965	2469.026	---	---



Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2436



2.4G_Ant1_2468

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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	2408	2.0190	2406.9326	2408.9516	---	---
		2436	2.0261	2434.9484	2436.9745	---	---
		2468	2.0104	2466.9888	2468.9992	---	---



Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2436



2.4G_Ant1_2468

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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	2408	19.63	≤20.97	PASS
		2436	19.42	≤20.97	PASS
		2468	20.43	≤20.97	PASS

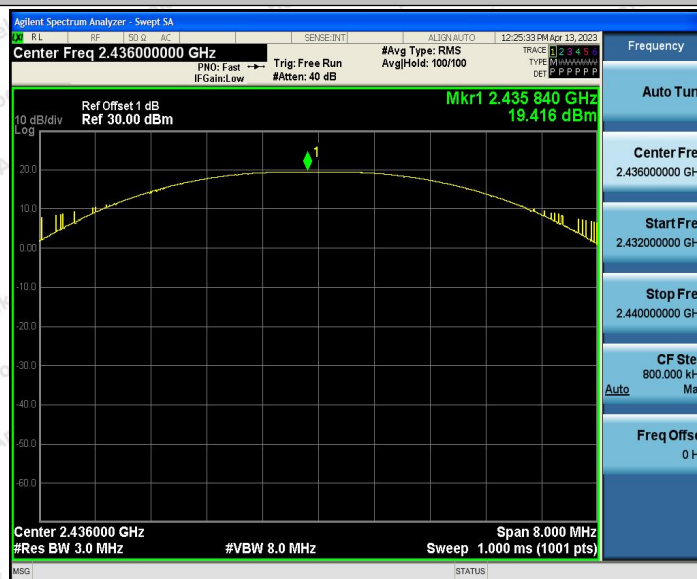


Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2436



2.4G_Ant1_2468

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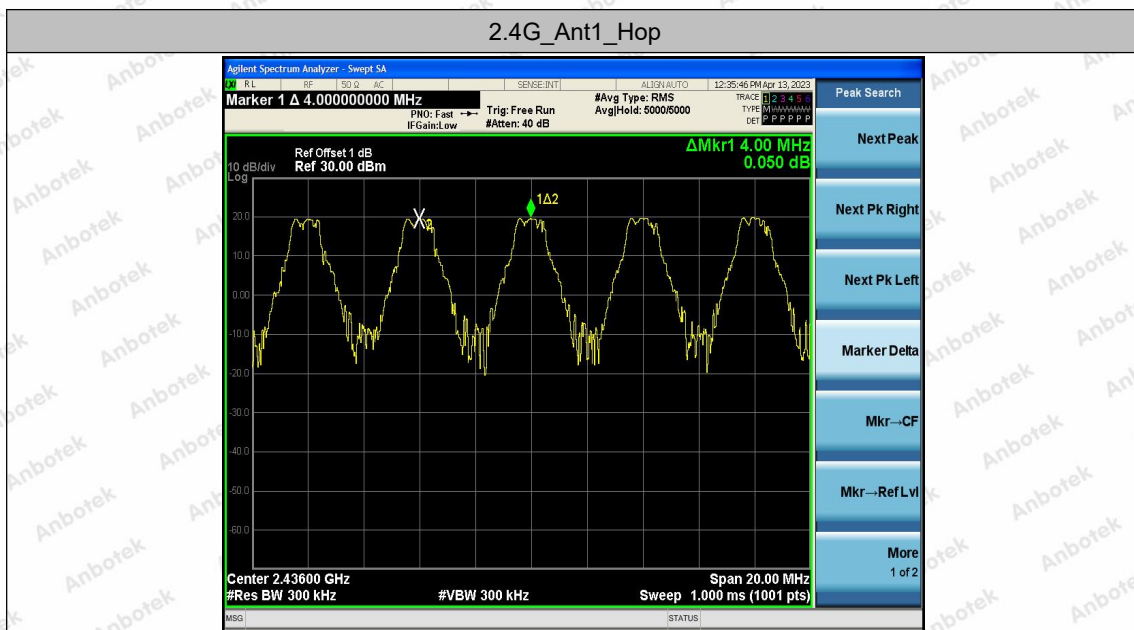
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	4.00	≥ 1.376	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	0.105	43	0.005	≤0.4	PASS





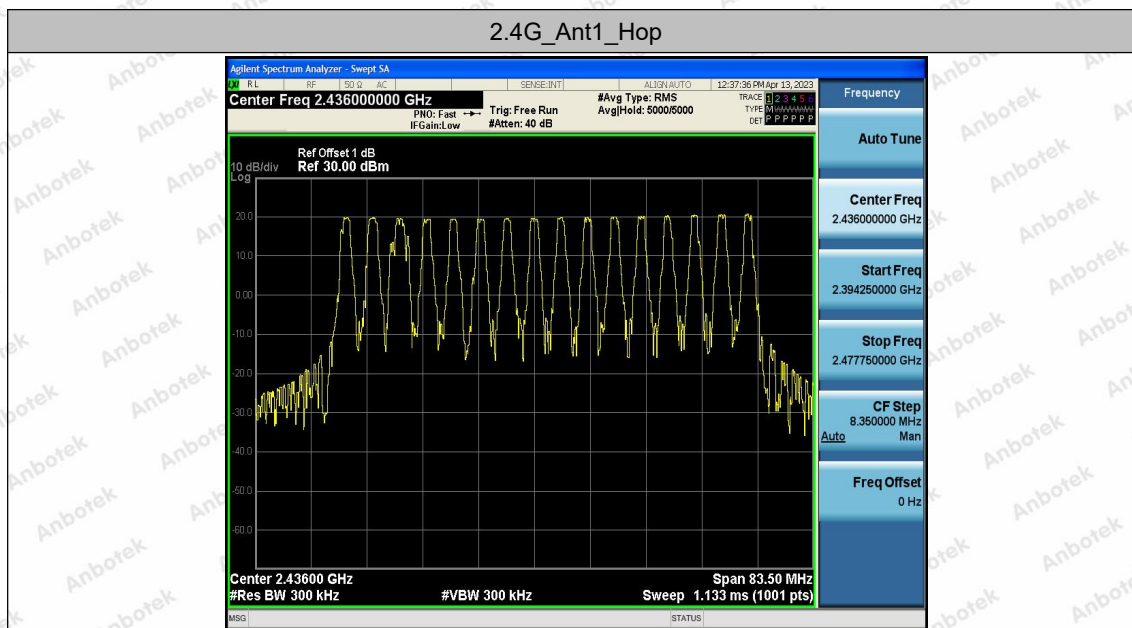
Appendix F: Number of hopping channels

Test Result

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



Test Graphs



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Appendix G: Band edge measurements

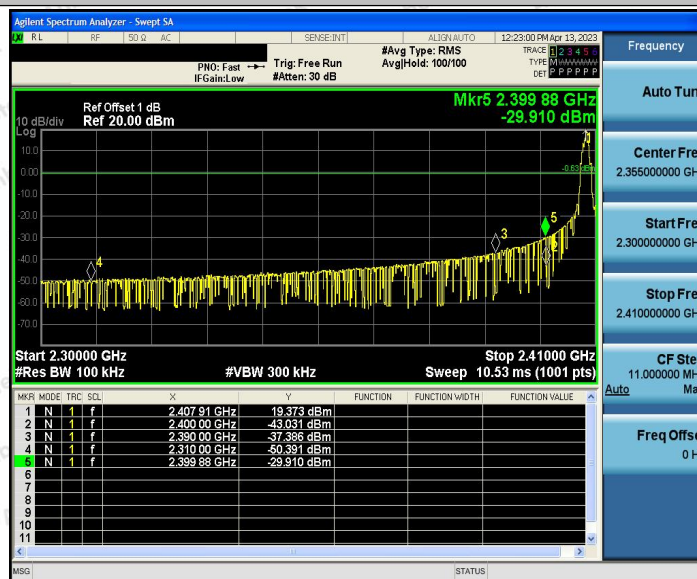
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2408	19.37	-29.91	≤-0.63	PASS
		High	2468	20.77	-34.97	≤0.77	PASS
		Low	Hop_2408	19.41	-37.55	≤-0.59	PASS
		High	Hop_2468	20.62	-42.32	≤0.62	PASS



Test Graphs

2.4G_Ant1_Low_2408



2.4G_Ant1_High_2468



2.4G_Ant1_Low_Hop_2408

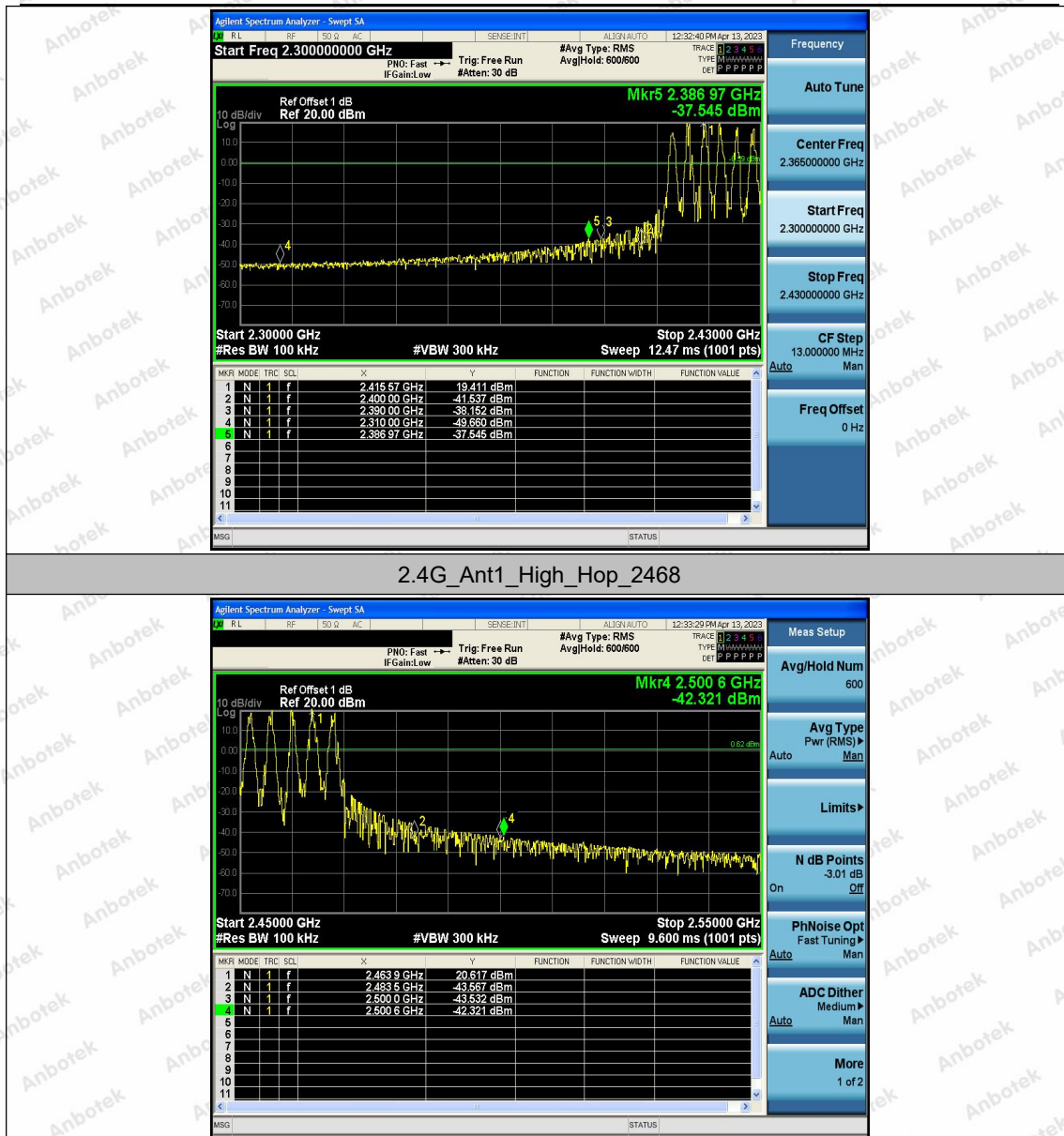
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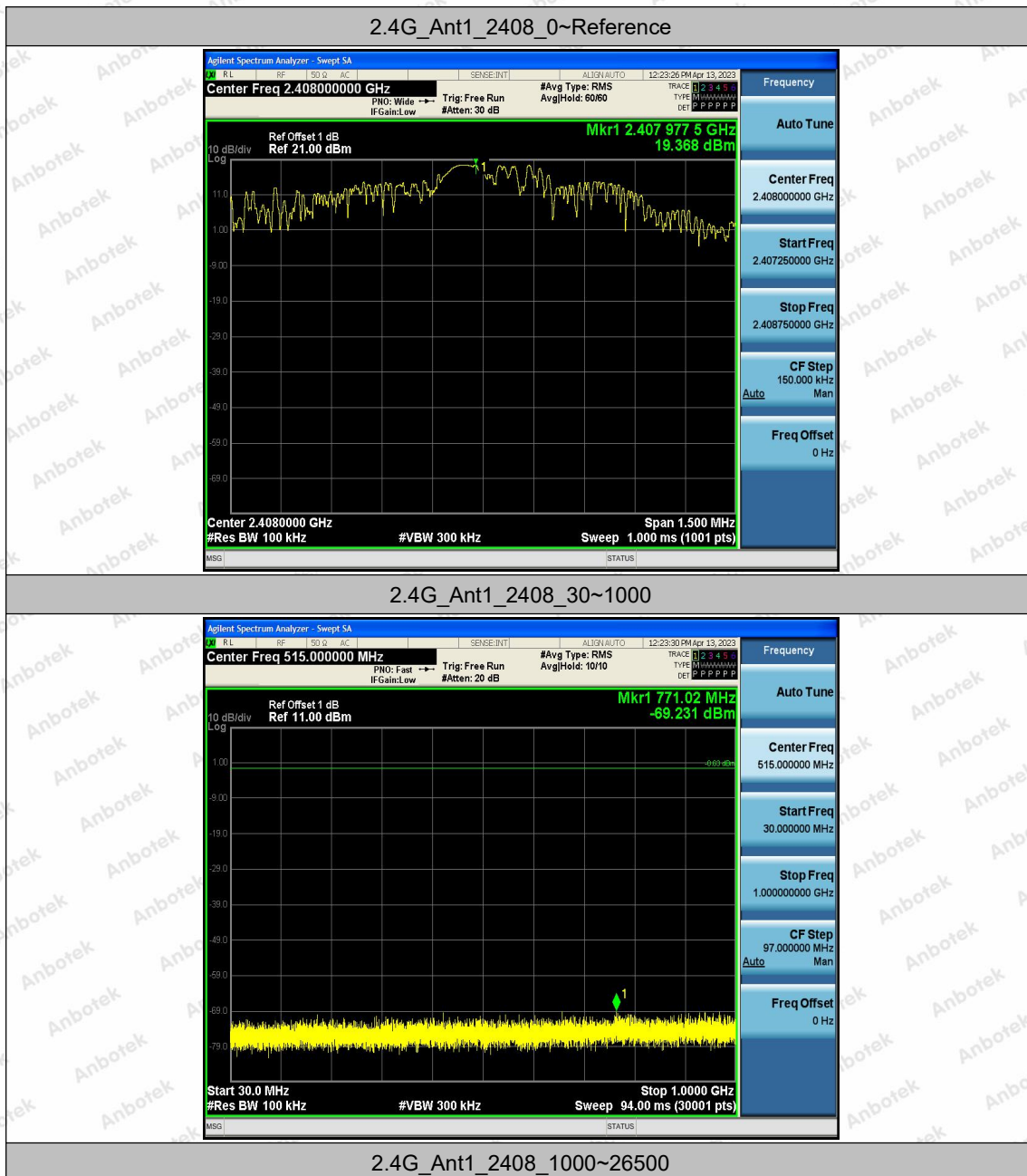
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2408	Reference	19.37	19.37	---	PASS
			30~1000	19.37	-69.23	≤-0.63	PASS
			1000~26500	19.37	-33.17	≤-0.63	PASS
		2436	Reference	19.27	19.27	---	PASS
			30~1000	19.27	-69.08	≤-0.73	PASS
			1000~26500	19.27	-25.87	≤-0.73	PASS
		2468	Reference	20.38	20.38	---	PASS
			30~1000	20.38	-67.6	≤0.38	PASS
			1000~26500	20.38	-48.46	≤0.38	PASS



Test Graphs



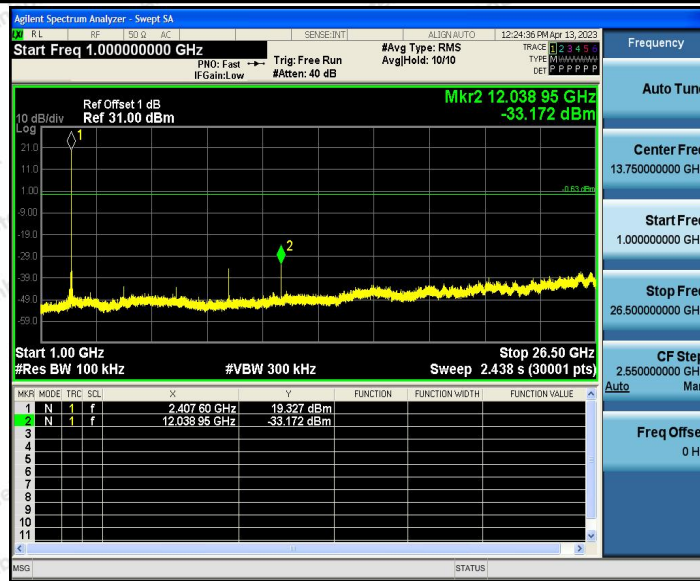
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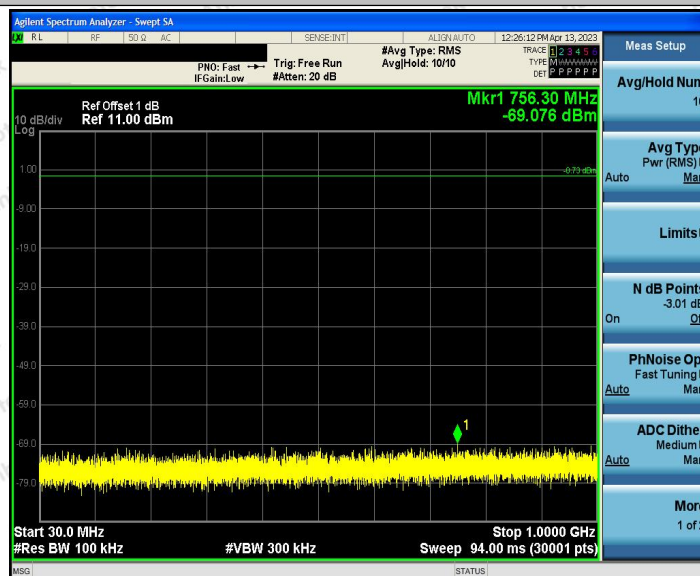




2.4G_Ant1_2436_0~Reference



2.4G_Ant1_2436_30~1000



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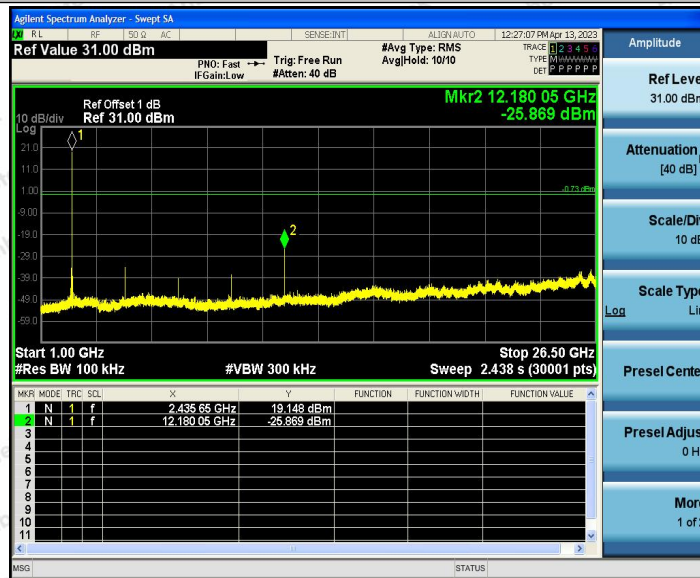
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2.4G_Ant1_2436_1000~26500



2.4G_Ant1_2468_0~Reference



2.4G_Ant1_2468_30~1000

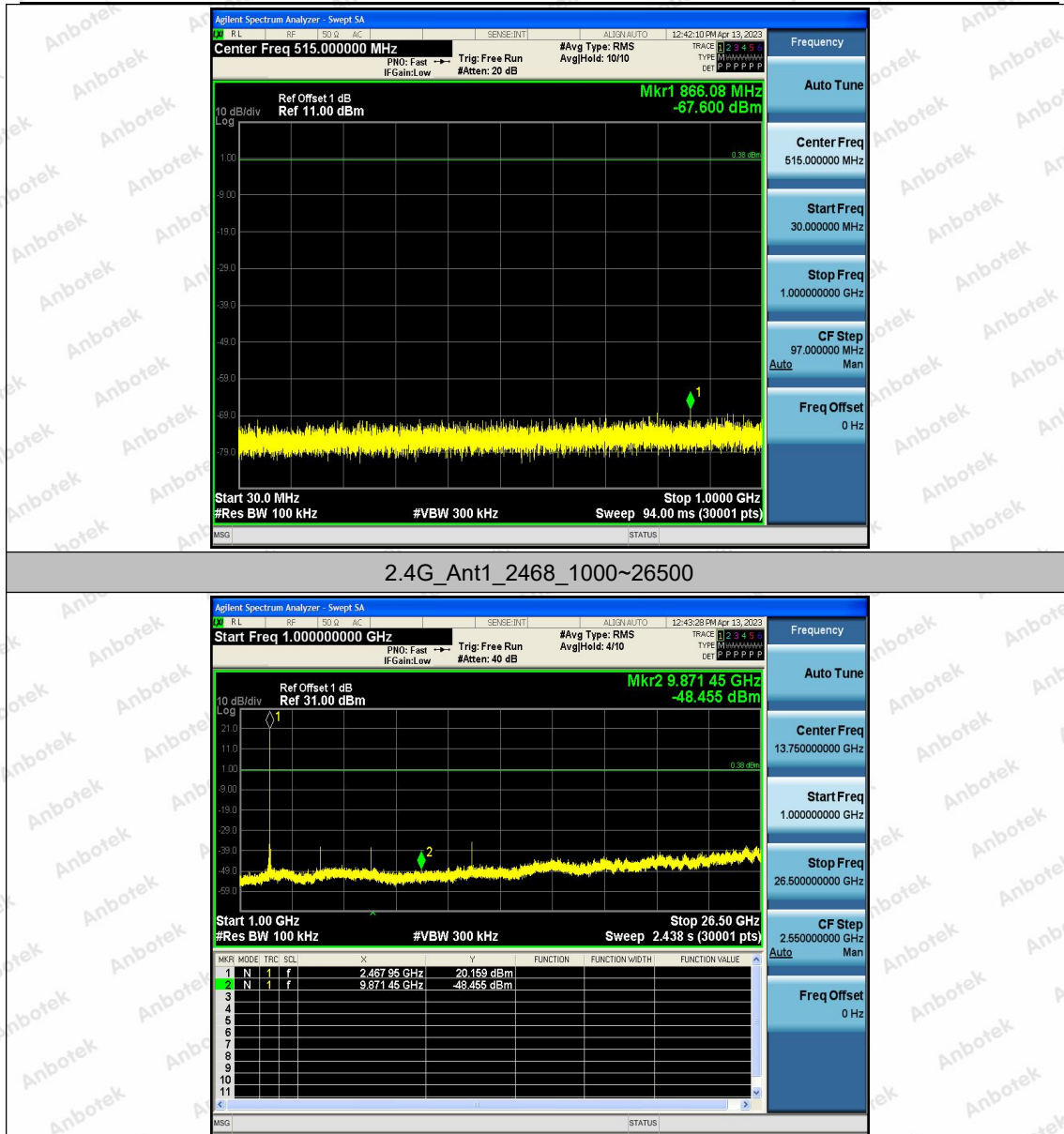
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Appendix I: Duty Cycle

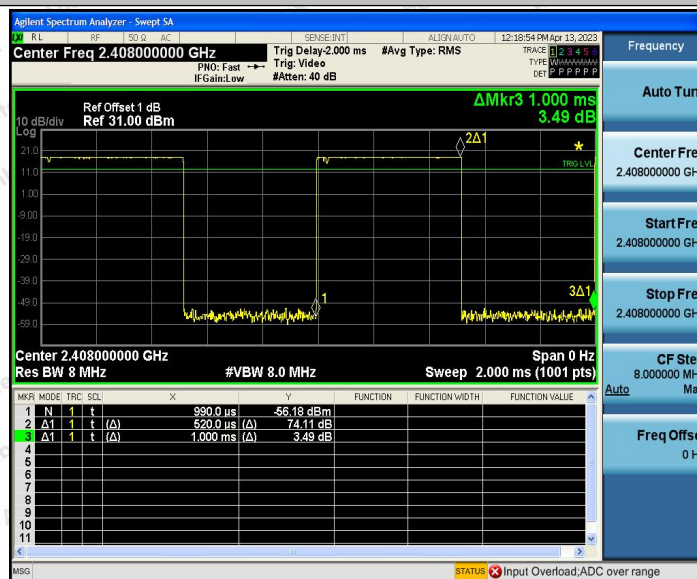
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2408	0.52	1.00	52.00	2.84
		2436	0.52	1.00	52.00	2.84
		2468	0.51	0.99	51.52	2.88

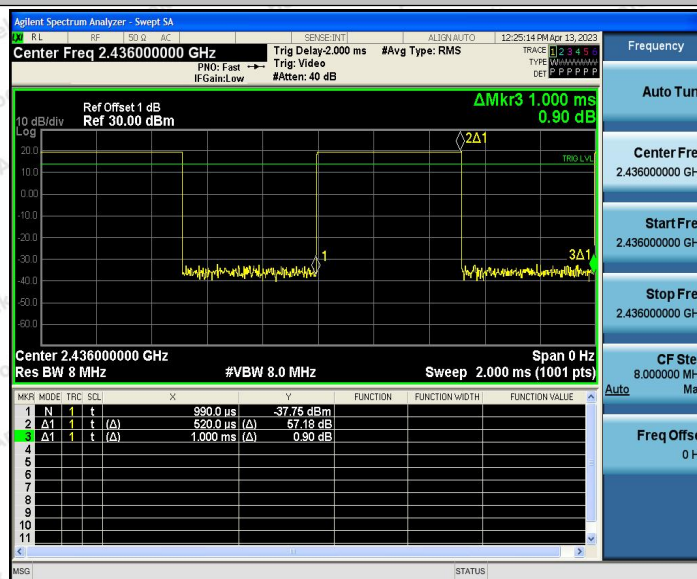


Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2436



2.4G_Ant1_2468

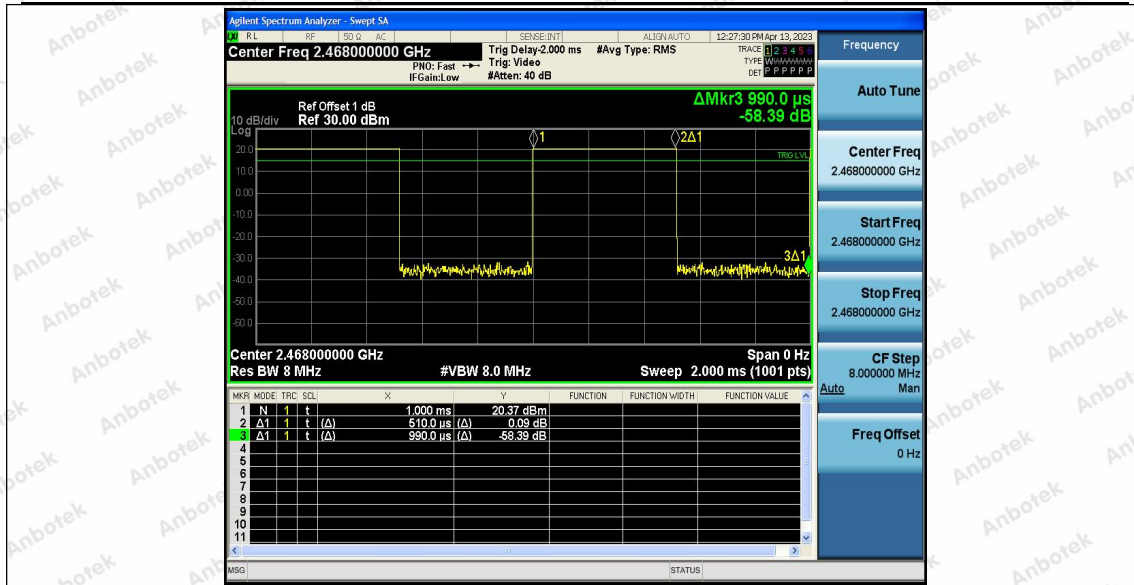
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