

Appendix Test Data

Report No.:	18220WC30243101	Test Sample No.:	1-2-2
Start Test Date:	2023.11.24	Finish Test Date:	2023.12.05
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	26.0°C	Relative Humidity:	47%
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	2403.8	0.975	2403.308	2404.283	---	---
		2440.8	0.993	2440.299	2441.292	---	---
		2479.8	0.990	2479.290	2480.280	---	---



Test Graphs

2.4G_Ant1_2403.8



2.4G_Ant1_2440.8



2.4G_Ant1_2479.8

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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	2403.8	0.86384	2403.3604	2404.2242	---	---
		2440.8	0.86355	2440.3558	2441.2194	---	---
		2479.8	0.86242	2479.3551	2480.2175	---	---



Test Graphs

2.4G_Ant1_2403.8



2.4G_Ant1_2440.8



2.4G_Ant1_2479.8

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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	2403.8	19.01	≤30	PASS
		2440.8	18.97	≤30	PASS
		2479.8	18.72	≤30	PASS



Test Graphs

2.4G_Ant1_2403.8



2.4G_Ant1_2440.8



2.4G_Ant1_2479.8

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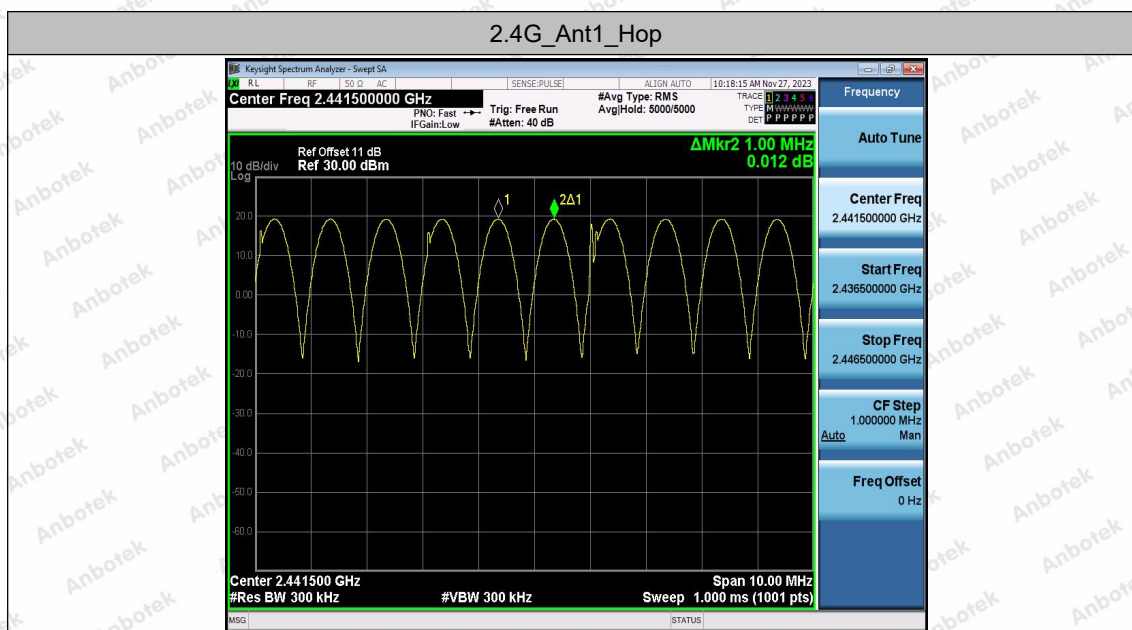
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.000	≥0.993	PASS



Test Graphs



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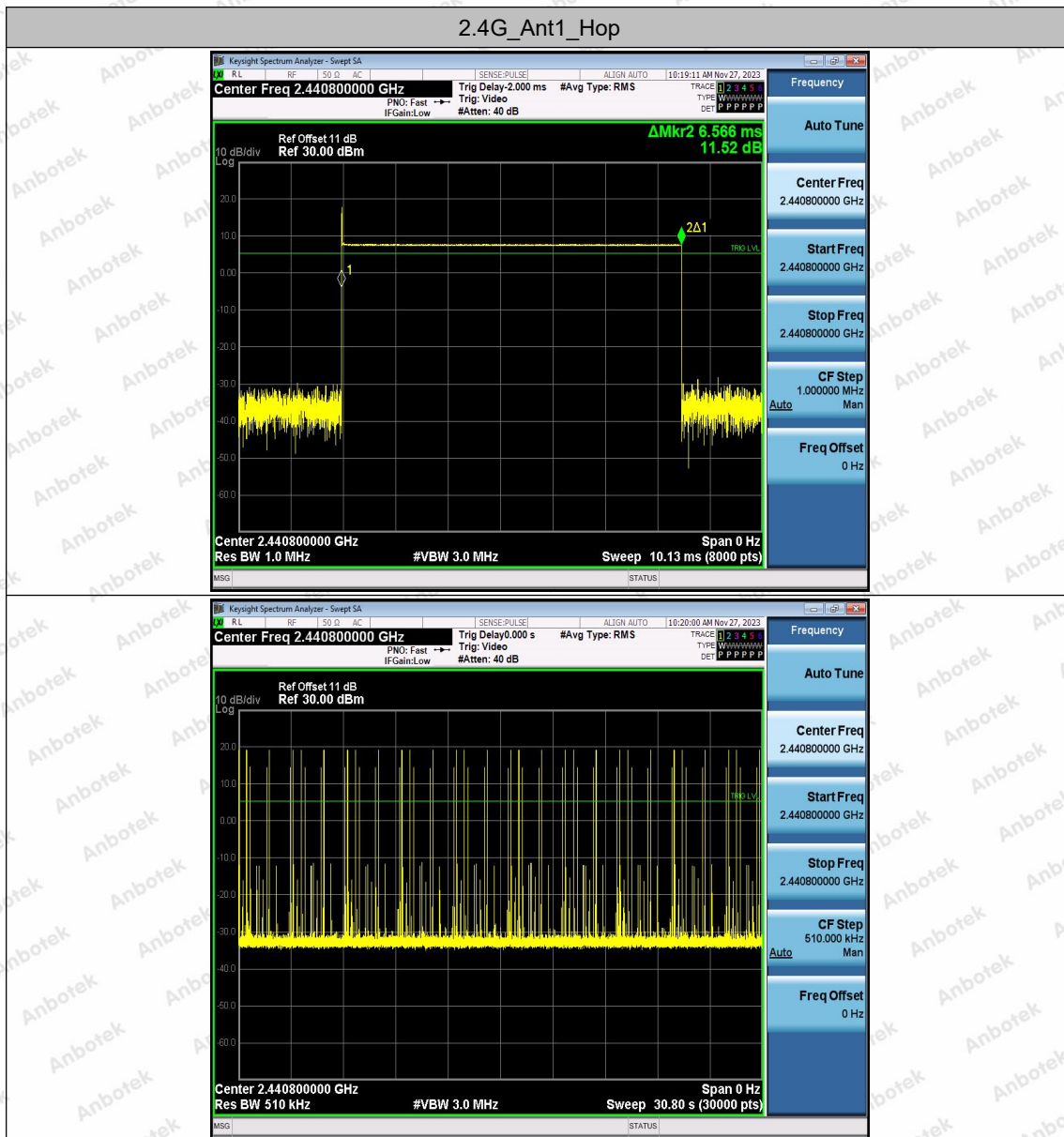
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	6.566	59	0.387	≤0.4	PASS



Test Graphs



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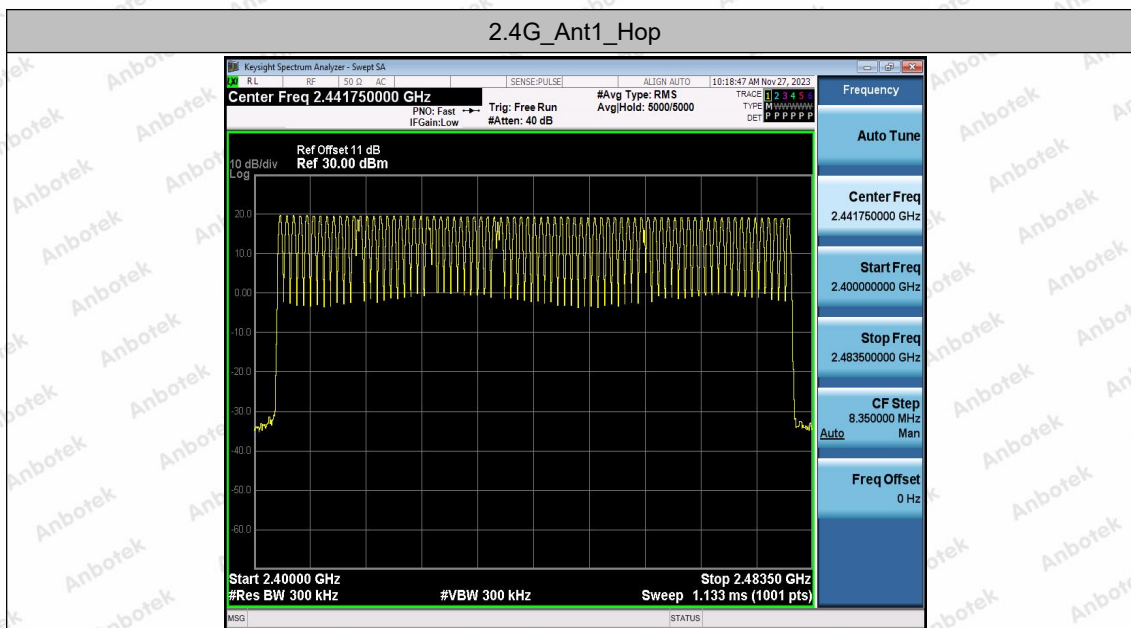
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	77	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

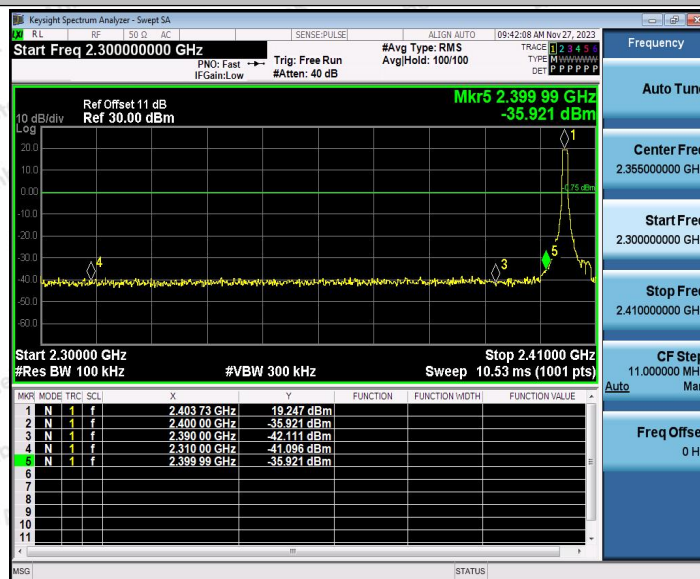
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403.8	19.25	-35.92	≤ -0.75	PASS
		High	2479.8	18.97	-34.27	≤ -1.03	PASS
		Low	Hop_2403.8	19.56	-36.28	≤ -0.44	PASS
		High	Hop_2479.8	19.02	-35.95	≤ -0.98	PASS

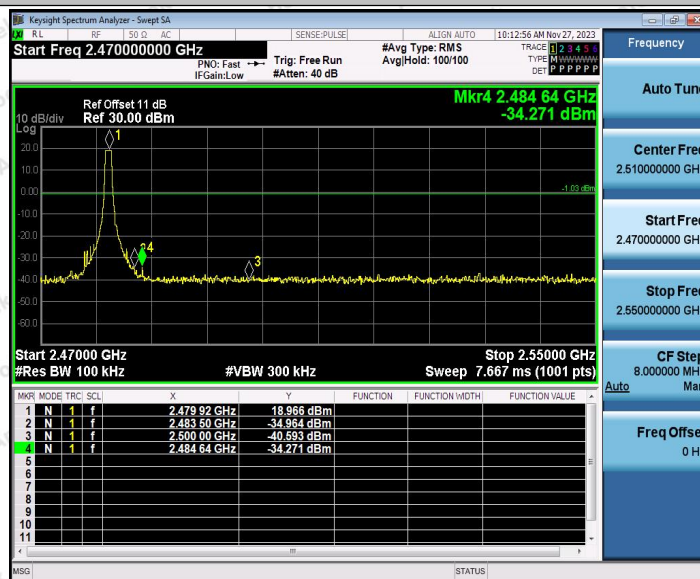


Test Graphs

2.4G_Ant1_Low_2403.8



2.4G_Ant1_High_2479.8



2.4G_Ant1_Low_Hop_2403.8

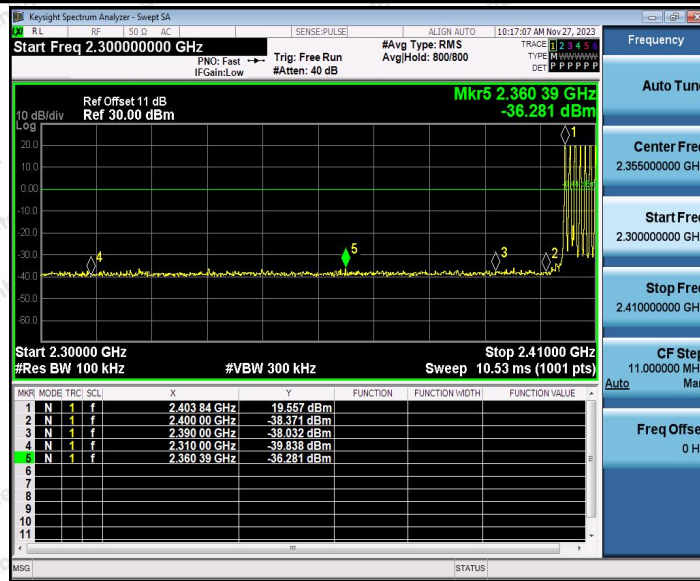
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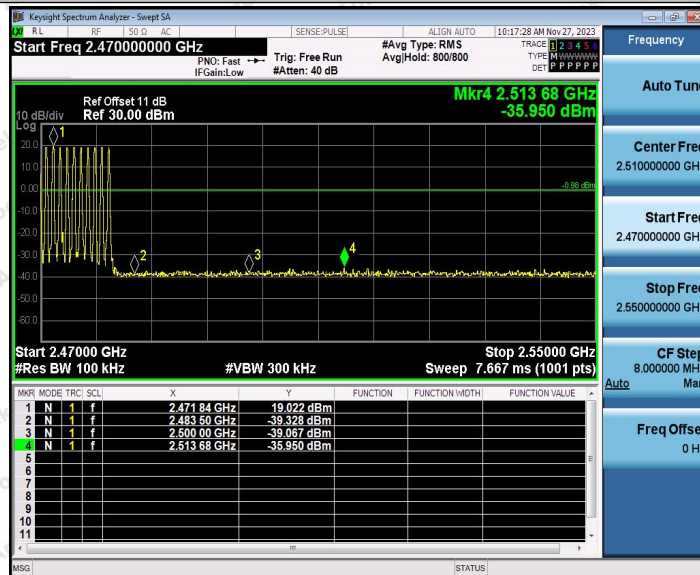


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2.4G_Ant1_High_Hop_2479.8



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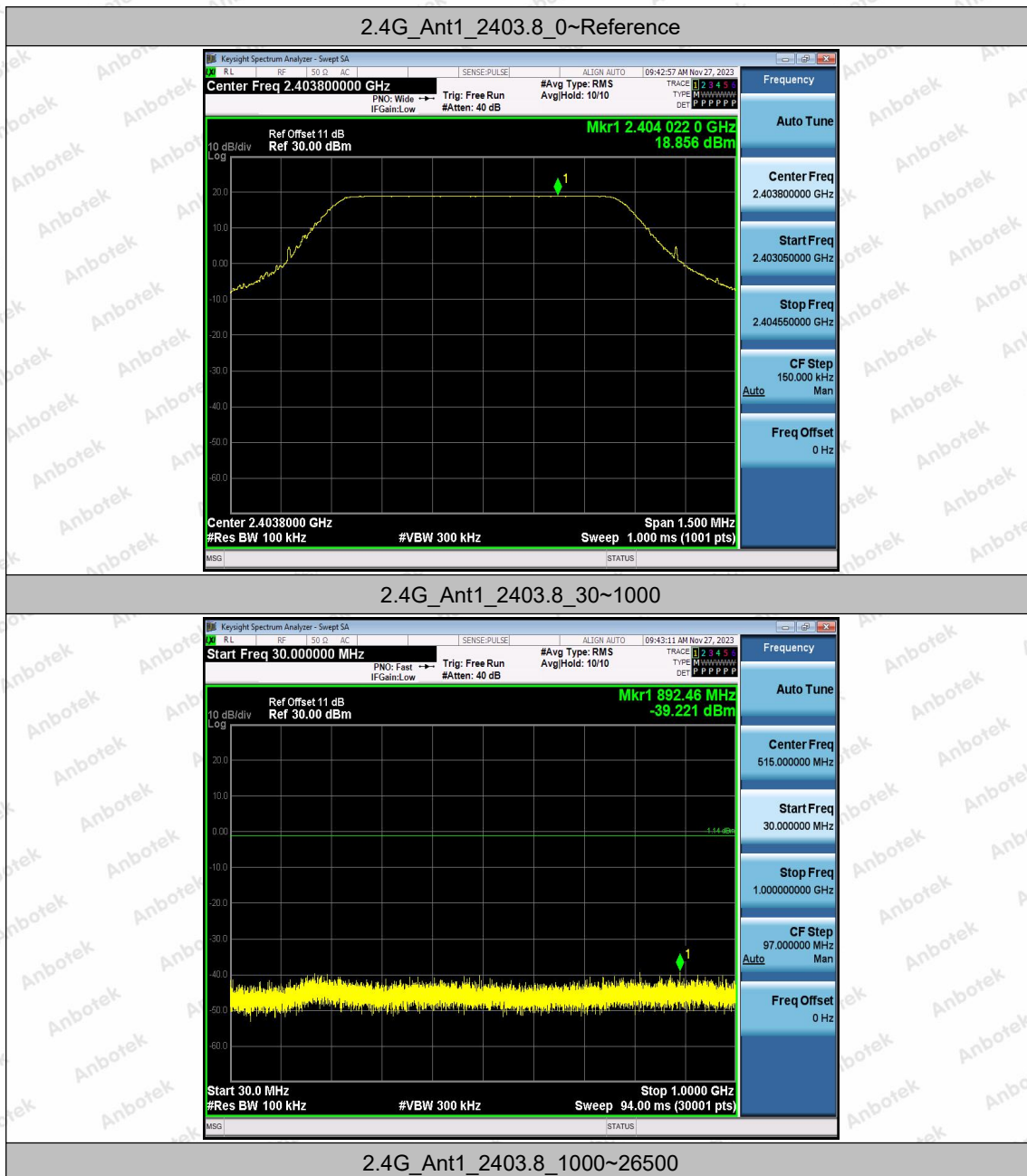
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403.8	Reference	18.86	18.86	---	PASS
			30~1000	18.86	-39.22	≤-1.14	PASS
			1000~26500	18.86	-24.16	≤-1.14	PASS
		2440.8	Reference	18.86	18.86	---	PASS
			30~1000	18.86	-38.92	≤-1.14	PASS
			1000~26500	18.86	-23.71	≤-1.14	PASS
		2479.8	Reference	18.61	18.61	---	PASS
			30~1000	18.61	-38.62	≤-1.39	PASS
			1000~26500	18.61	-23.47	≤-1.39	PASS



Test Graphs



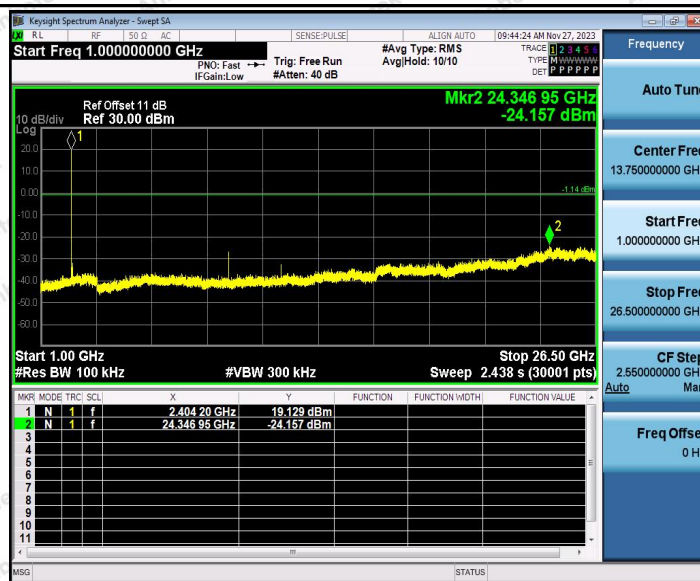
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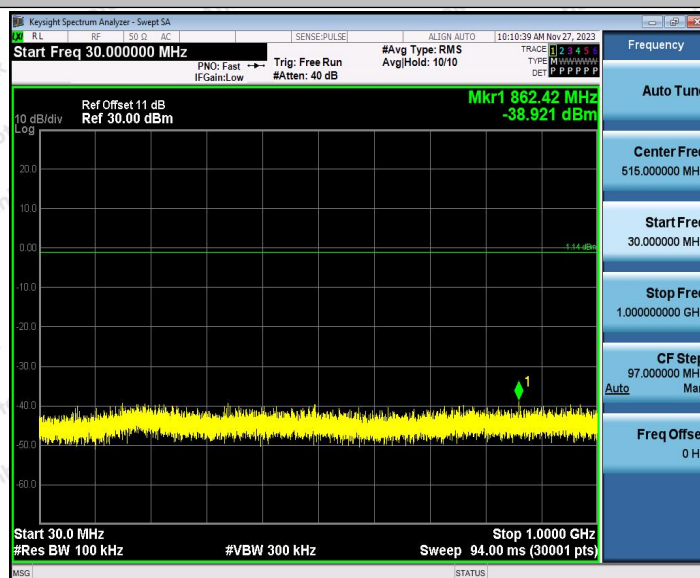




2.4G_Ant1_2440.8_0~Reference



2.4G_Ant1_2440.8_30~1000



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2.4G_Ant1_2440.8_1000~26500



2.4G_Ant1_2479.8_0~Reference



2.4G_Ant1_2479.8_30~1000

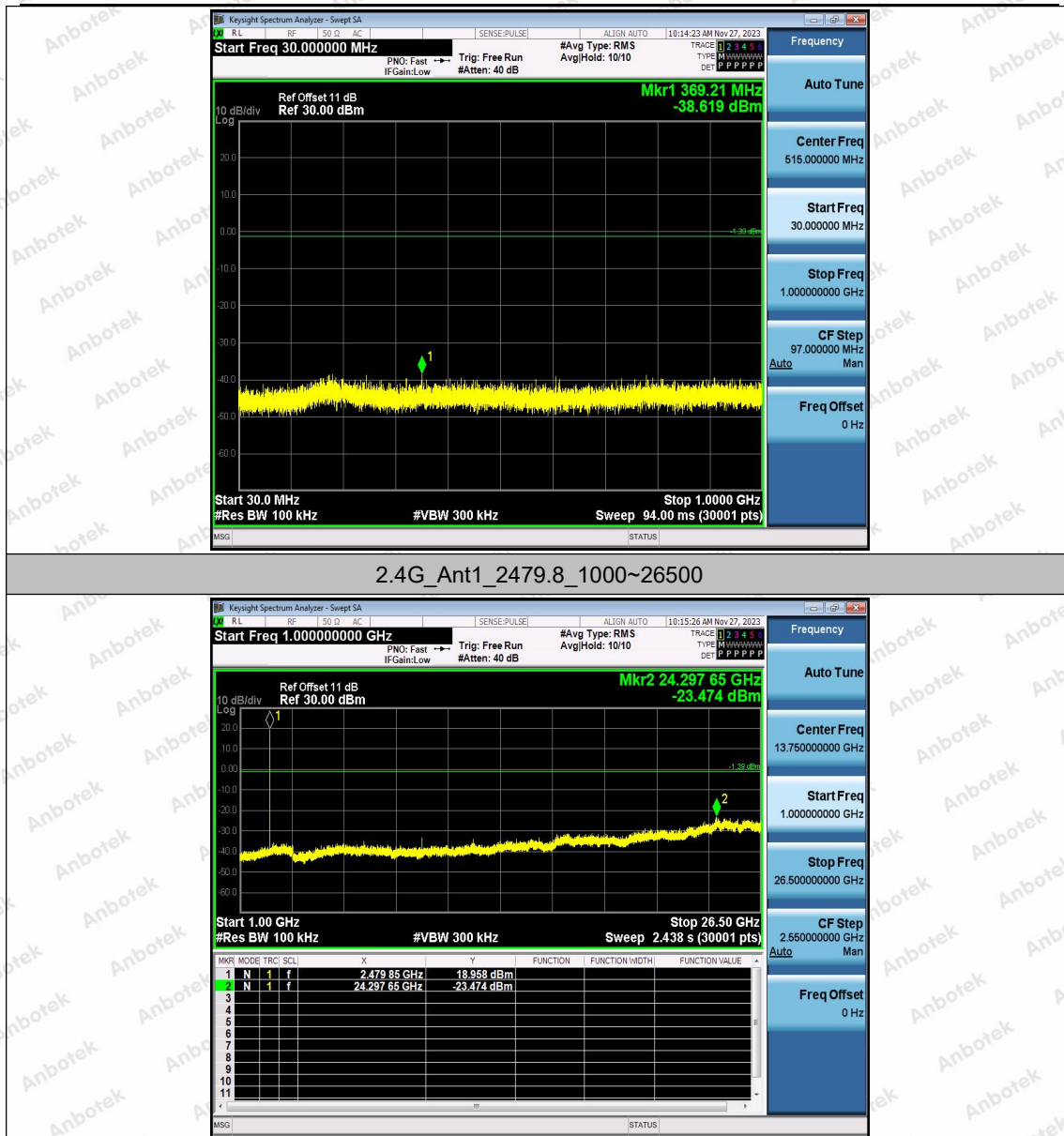
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Appendix I: Duty Cycle

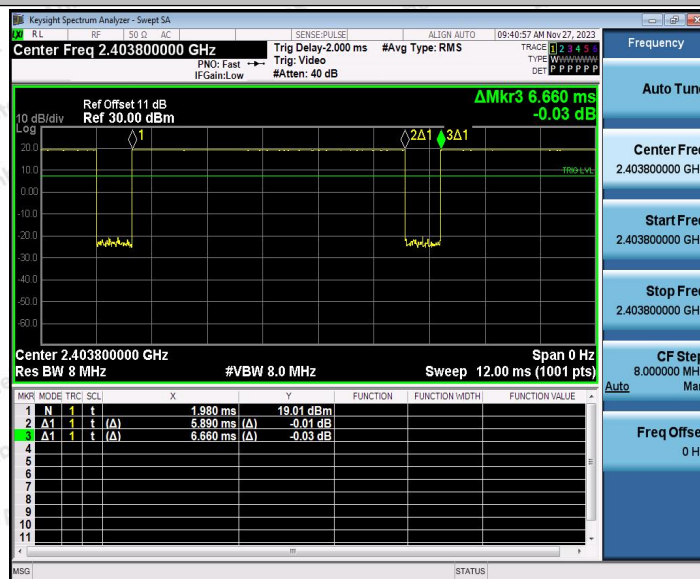
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403.8	5.89	6.66	88.44	0.53
		2440.8	5.89	6.66	88.44	0.53
		2479.8	5.90	6.67	88.46	0.53

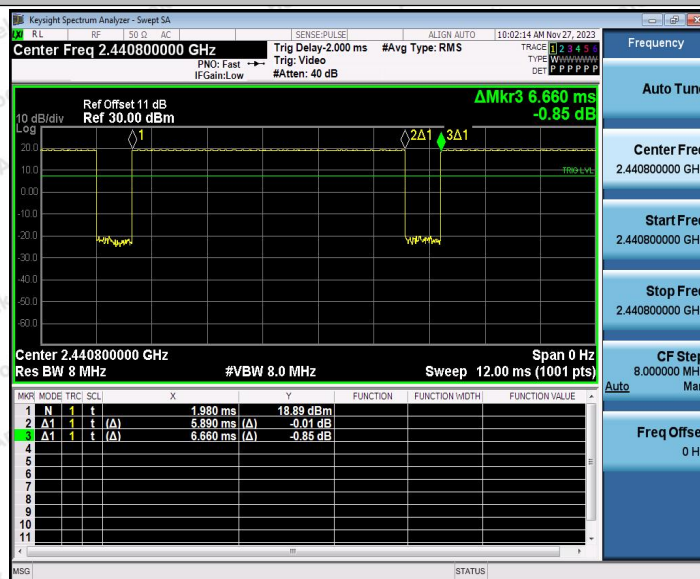


Test Graphs

2.4G_Ant1_2403.8



2.4G_Ant1_2440.8



2.4G_Ant1_2479.8

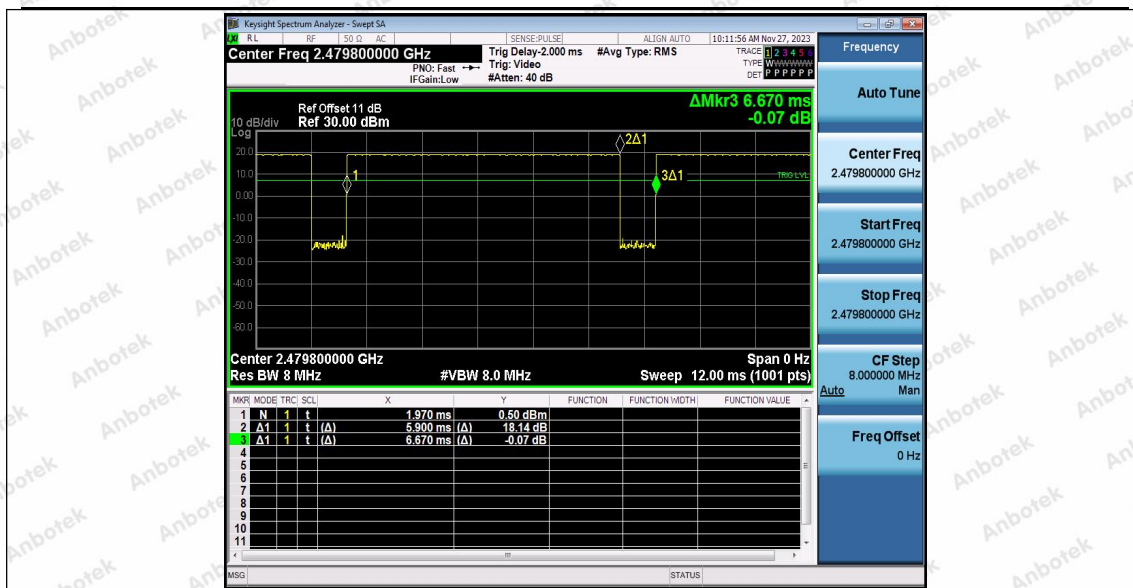
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