

Appendix Test Data

Report No.:	18220WC30155201	Test Sample No.:	1-2-2
Start Test Date:	2023.07.27	Finish Test Date:	2023.08.01
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.3℃	Relative Humidity:	48%
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	2402	1.776	2401.112	2402.888	---	---
		2440	1.758	2439.130	2440.888	---	---
		2480	1.806	2479.106	2480.912	---	---



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2440



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	1.8751	2401.1216	2402.9967	---	---
		2440	1.9341	2439.0928	2441.0269	---	---
		2480	1.9812	2479.0720	2481.0532	---	---



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2440



2.4G_Ant1_2480

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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	-2.95	≤20.97	PASS
		2440	-2.85	≤20.97	PASS
		2480	-3.17	≤20.97	PASS



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2440



2.4G_Ant1_2480

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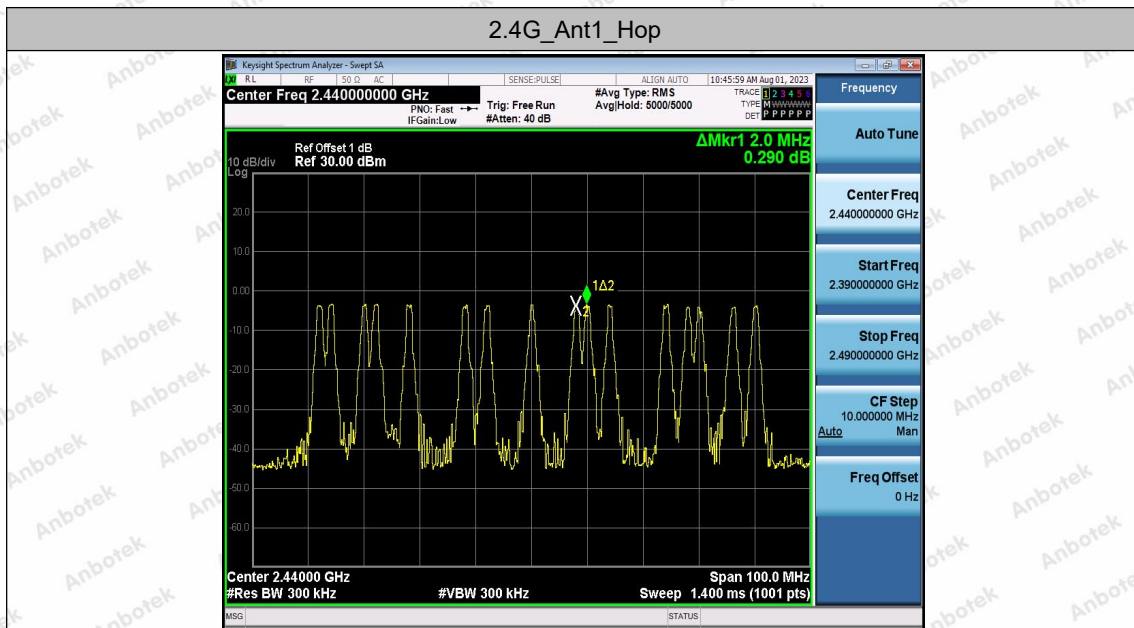
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥1.204	PASS



Test Graphs



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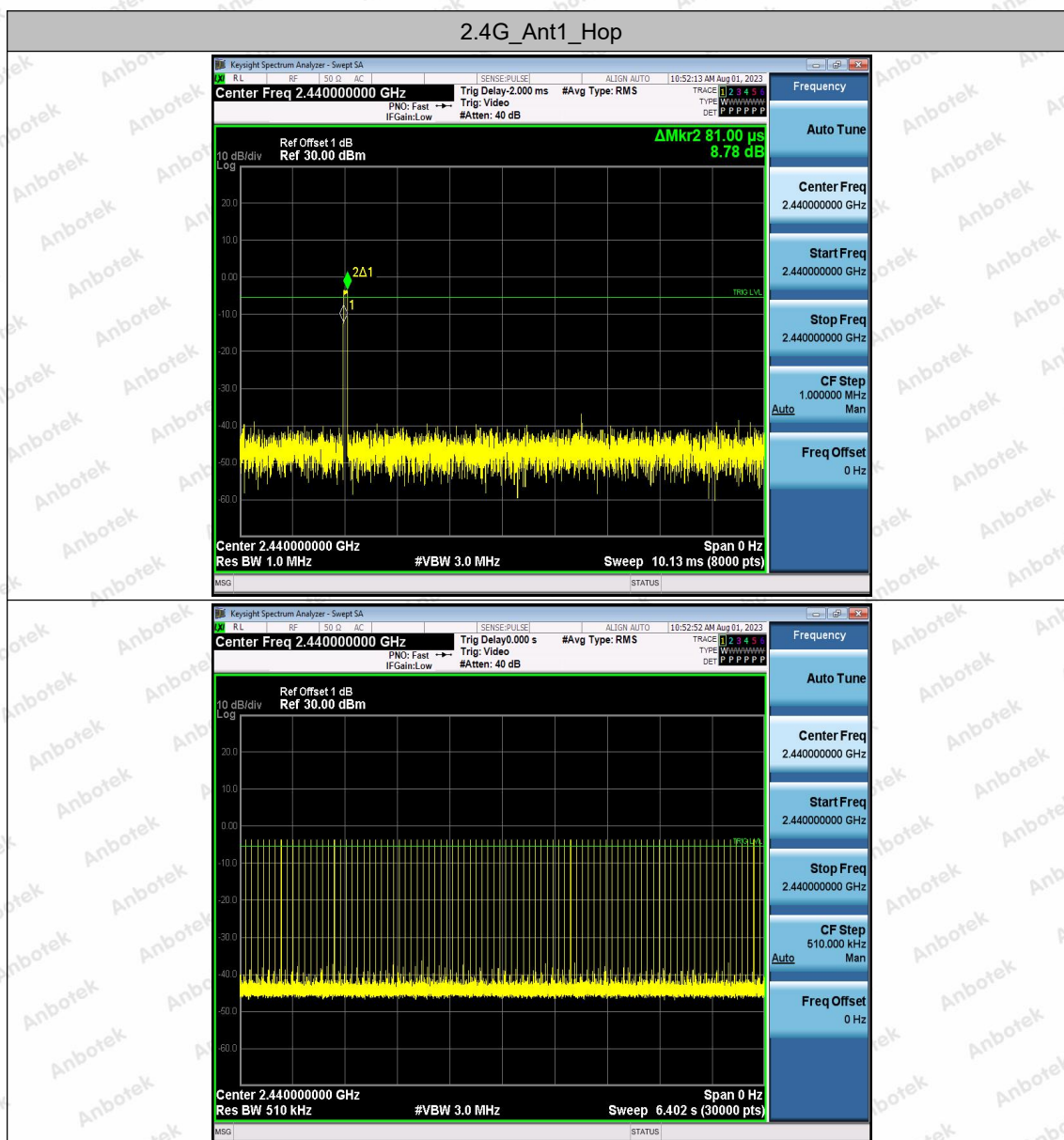
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.081	88	0.007	≤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	16	≥15	PASS





Appendix G: Band edge measurements

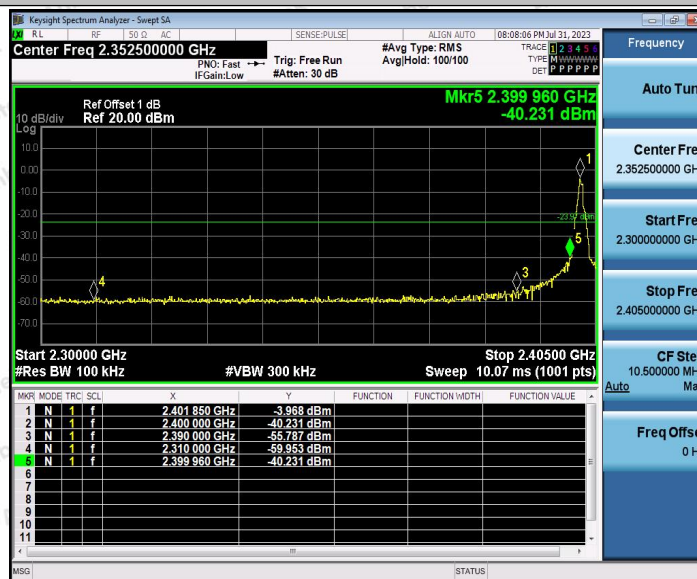
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402	-3.97	-40.23	≤-23.97	PASS
		High	2480	-4.11	-46.14	≤-24.11	PASS
		Low	Hop_2402	-4.73	-56.27	≤-24.73	PASS
		High	Hop_2480	-5.75	-55.84	≤-25.75	PASS

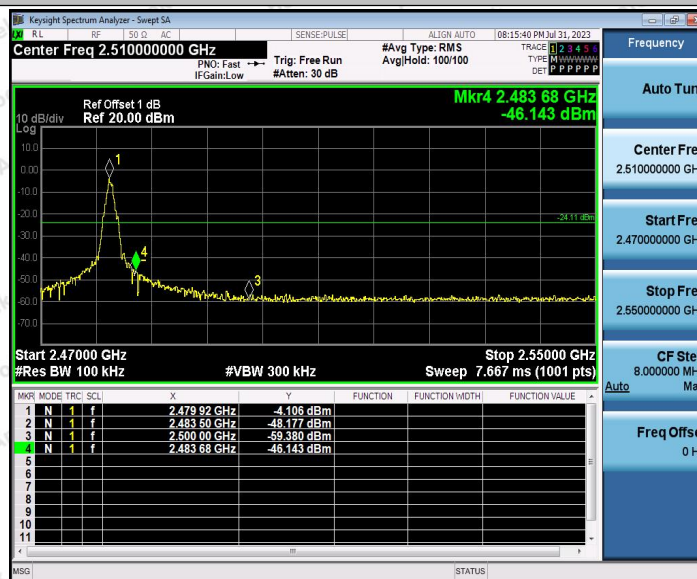


Test Graphs

2.4G_Ant1_Low_2402



2.4G_Ant1_High_2480



2.4G_Ant1_Low_Hop_2402

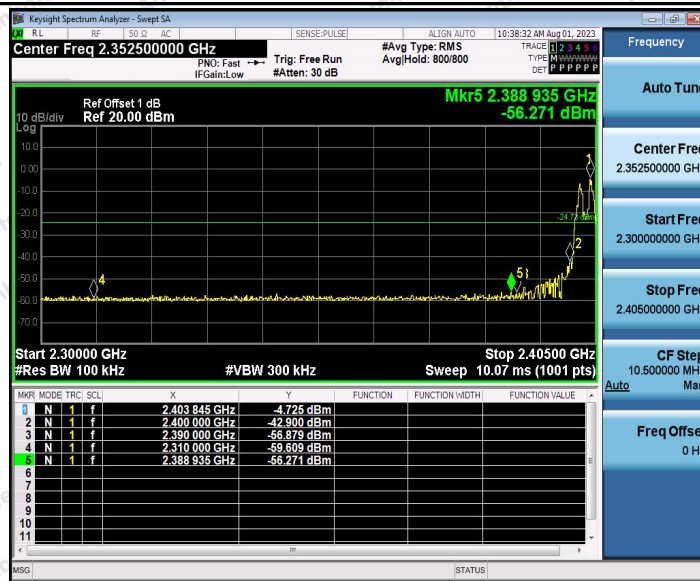
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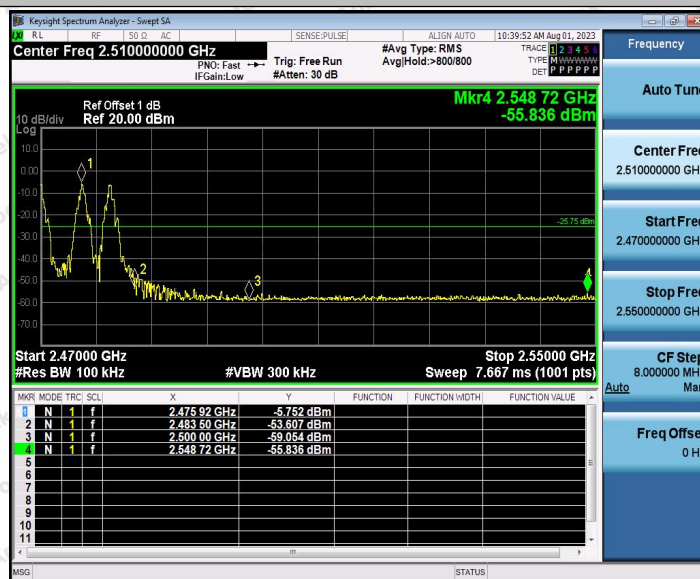


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2.4G_Ant1_High_Hop_2480



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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	-4.08	-4.08	---	PASS
			30~1000	-4.08	-65.96	≤-24.08	PASS
			1000~26500	-4.08	-50.2	≤-24.08	PASS
		2440	Reference	-4.10	-4.10	---	PASS
			30~1000	-4.10	-65.73	≤-24.1	PASS
			1000~26500	-4.10	-51.38	≤-24.1	PASS
		2480	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-65	≤-24.43	PASS
			1000~26500	-4.43	-45.43	≤-24.43	PASS

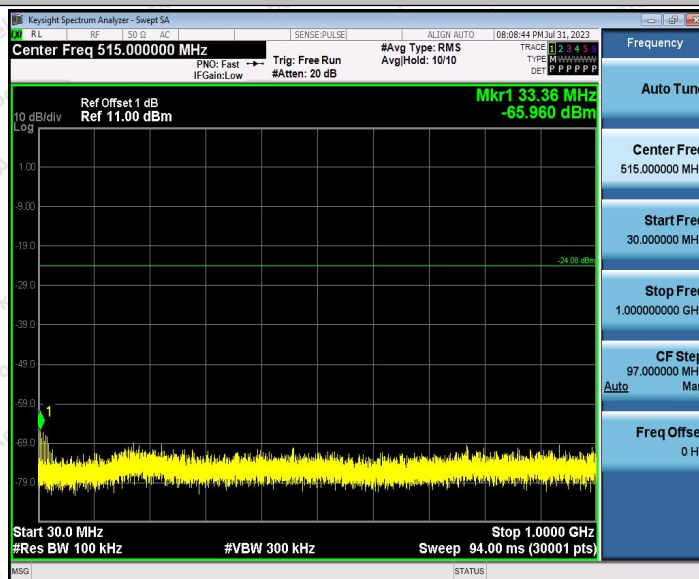


Test Graphs

2.4G_Ant1_2402_0~Reference



2.4G_Ant1_2402_30~1000



2.4G_Ant1_2402_1000~26500

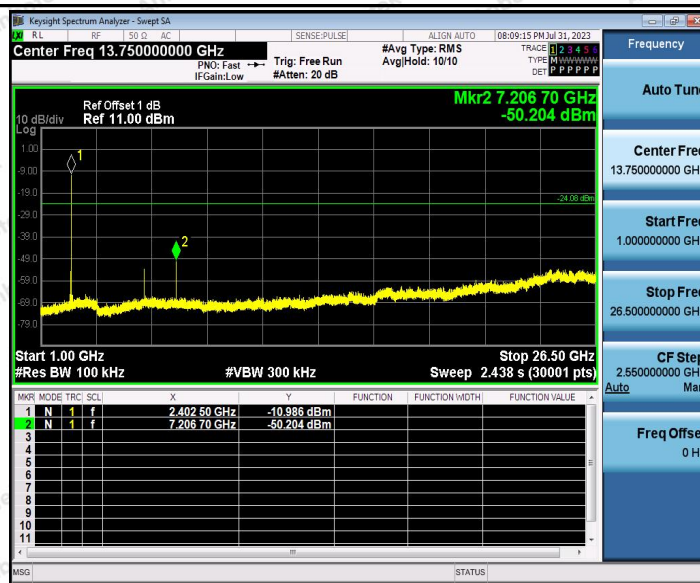
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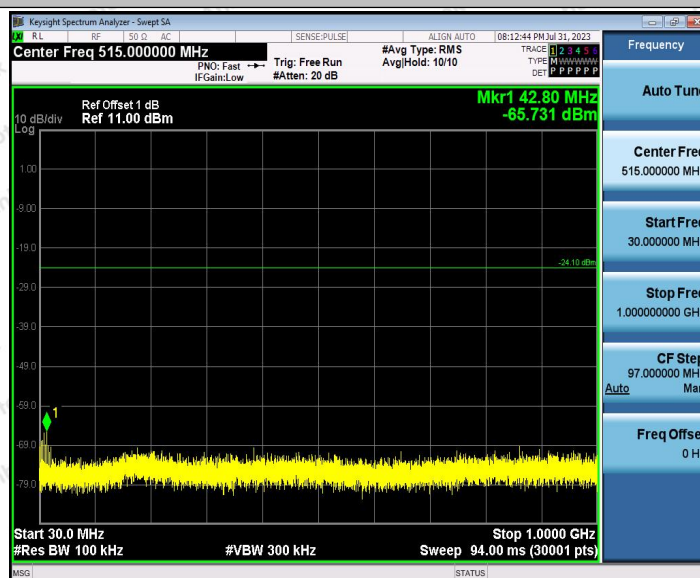




2.4G_Ant1_2440_0~Reference



2.4G_Ant1_2440_30~1000



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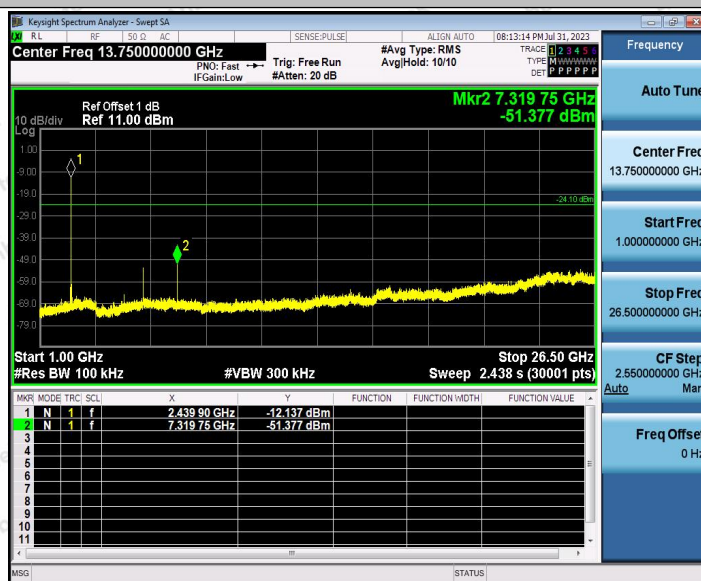
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2.4G_Ant1_2440_1000~26500



2.4G_Ant1_2480_0~Reference



2.4G_Ant1_2480_30~1000

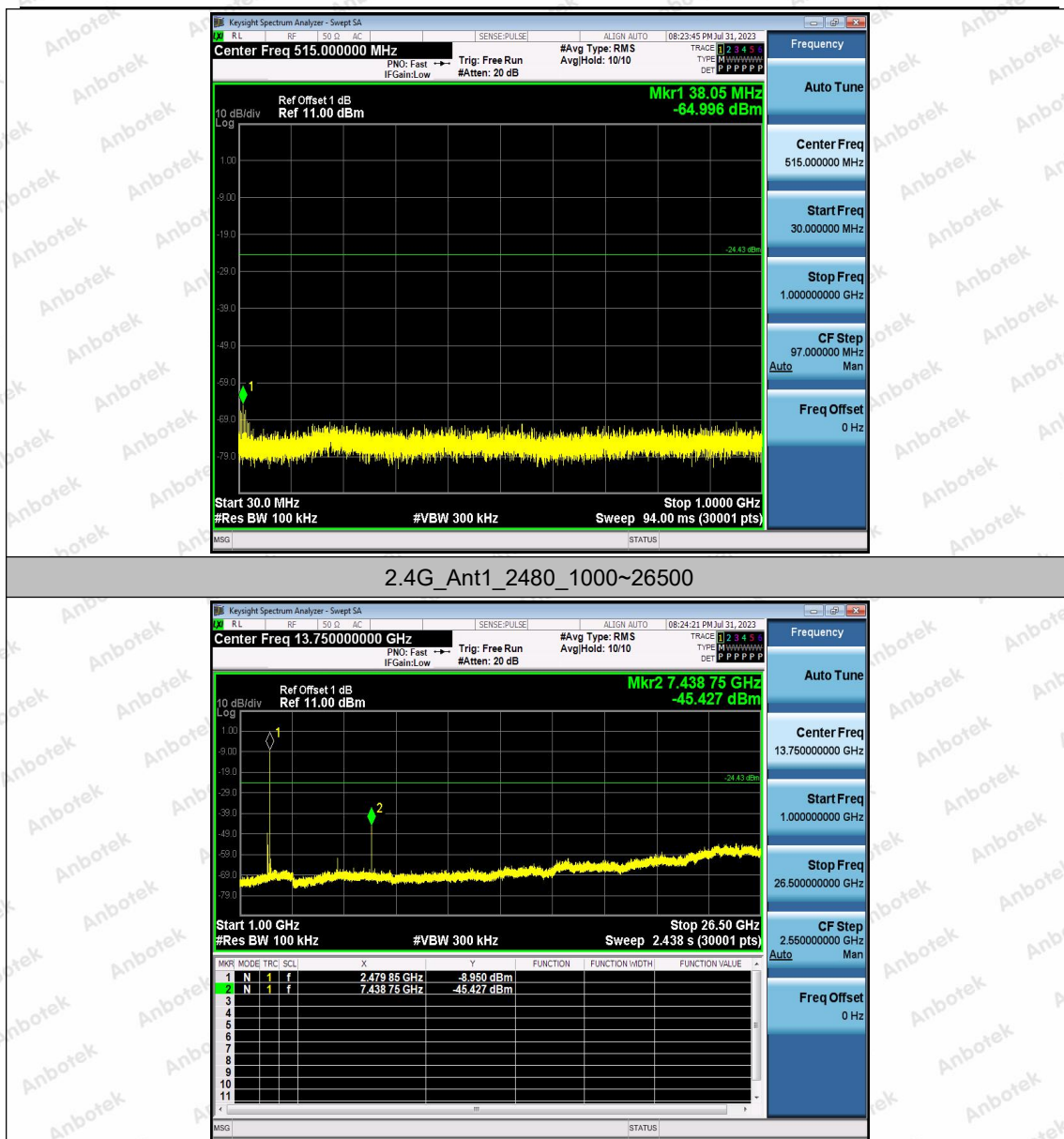
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Appendix I: Duty Cycle

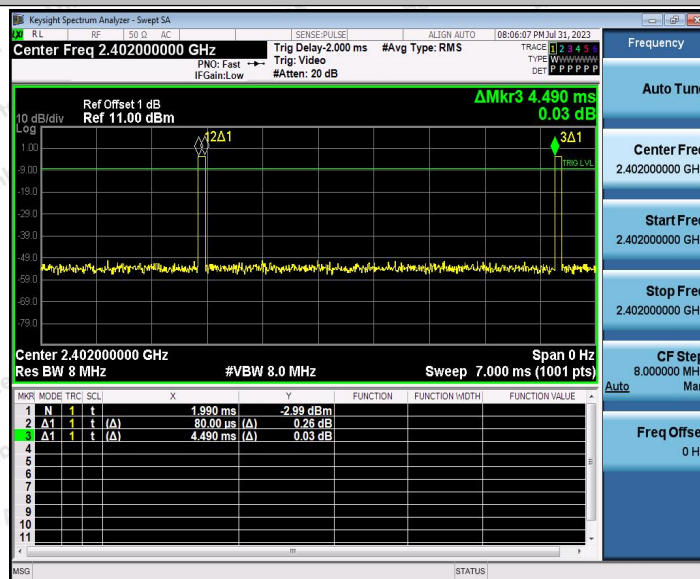
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402	0.08	4.49	1.78	17.50
		2440	0.08	4.49	1.78	17.50
		2480	0.08	4.49	1.78	17.50

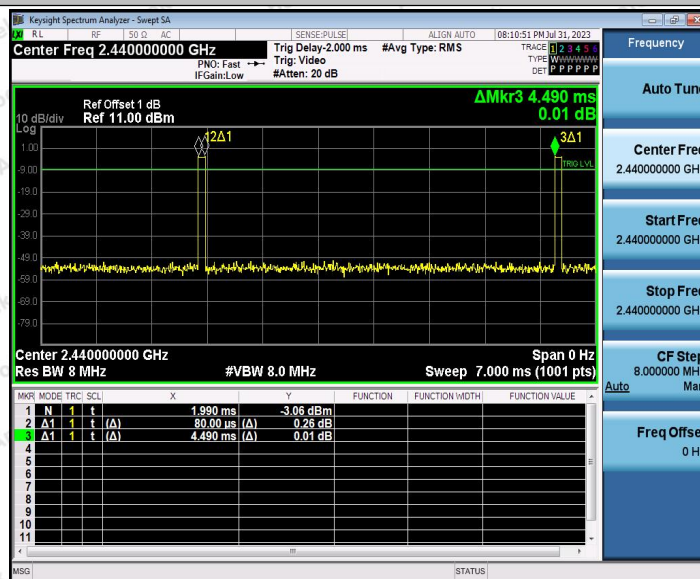


Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2440



2.4G_Ant1_2480

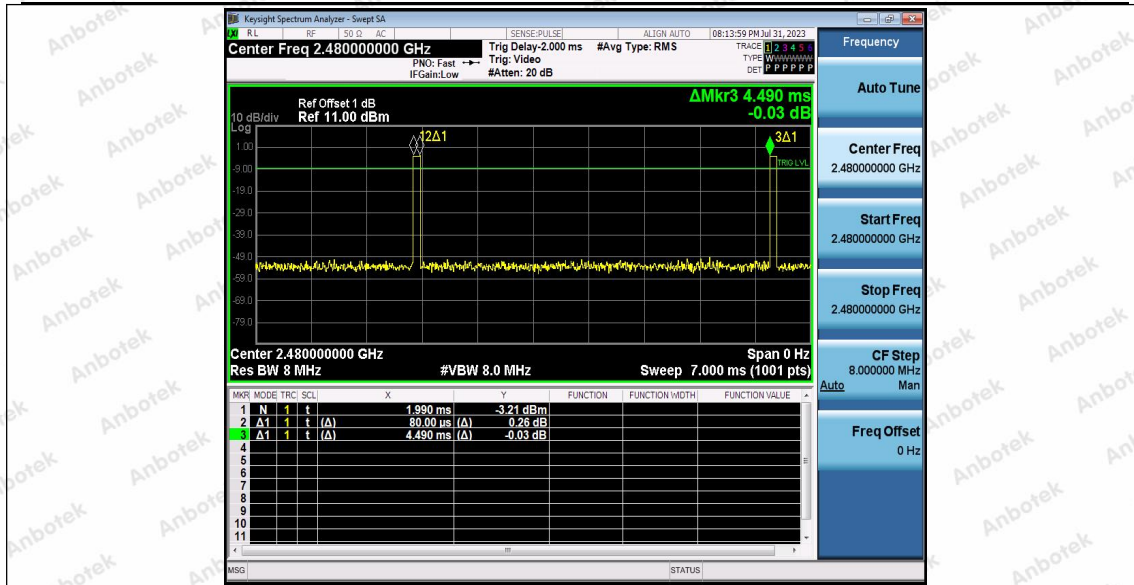
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