

Appendix Test Data

Report No.:	18220WC30155401	Test Sample No.:	1-2-2
Start Test Date:	2023.07.27	Finish Test Date:	2023.08.01
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3°C	Relative Humidity:	46%
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	2.058	2400.974	2403.032	---	---
		2440	2.064	2438.974	2441.038	---	---
		2480	2.064	2478.974	2481.038	---	---

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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	1.9972	2401.0075	2403.0047	---	---
		2440	2.0043	2439.0062	2441.0105	---	---
		2480	2.0398	2478.9959	2481.0357	---	---

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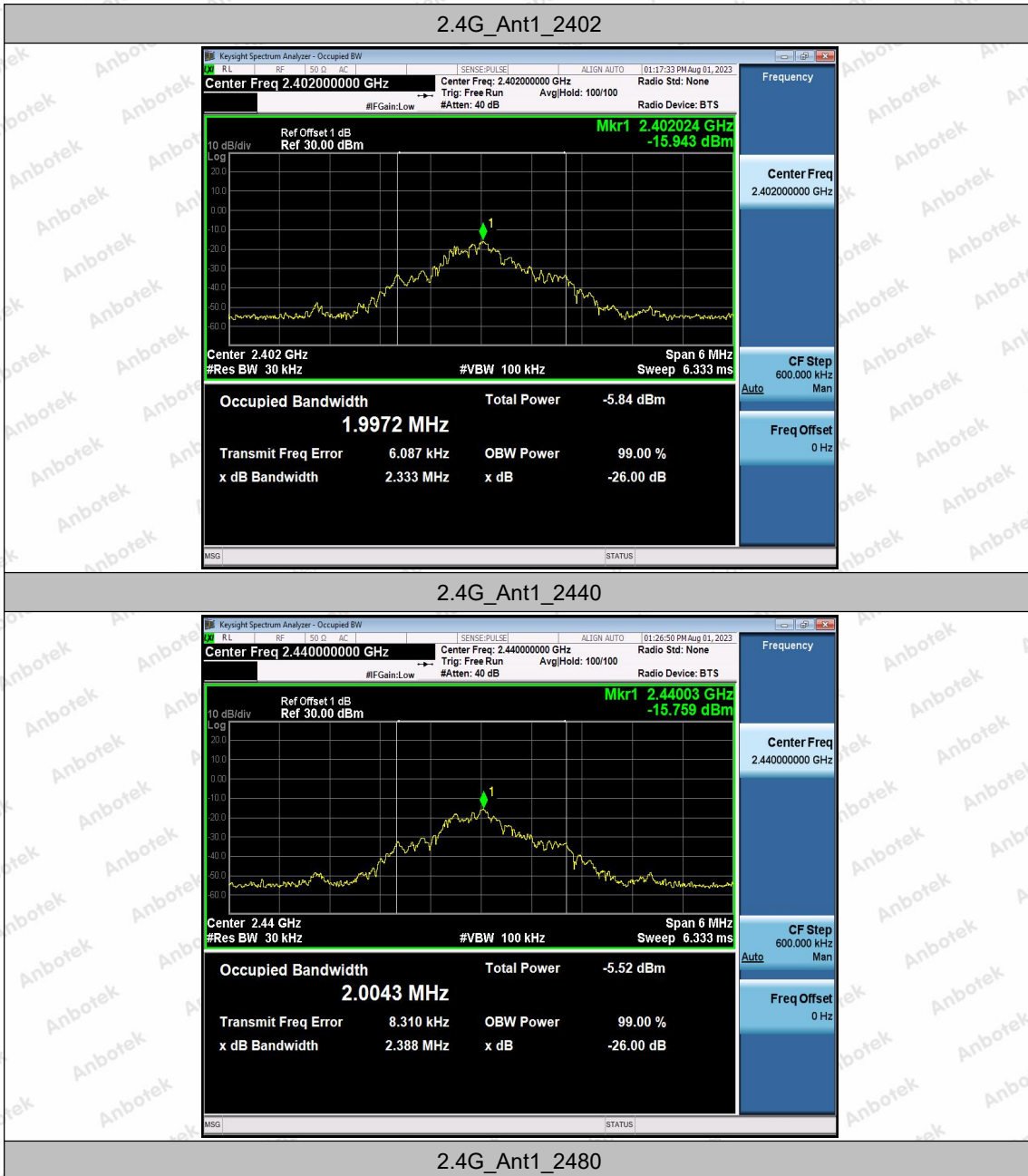
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Test Graphs



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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	-9.68	≤20.97	PASS
		2440	-9.57	≤20.97	PASS
		2480	-9.76	≤20.97	PASS

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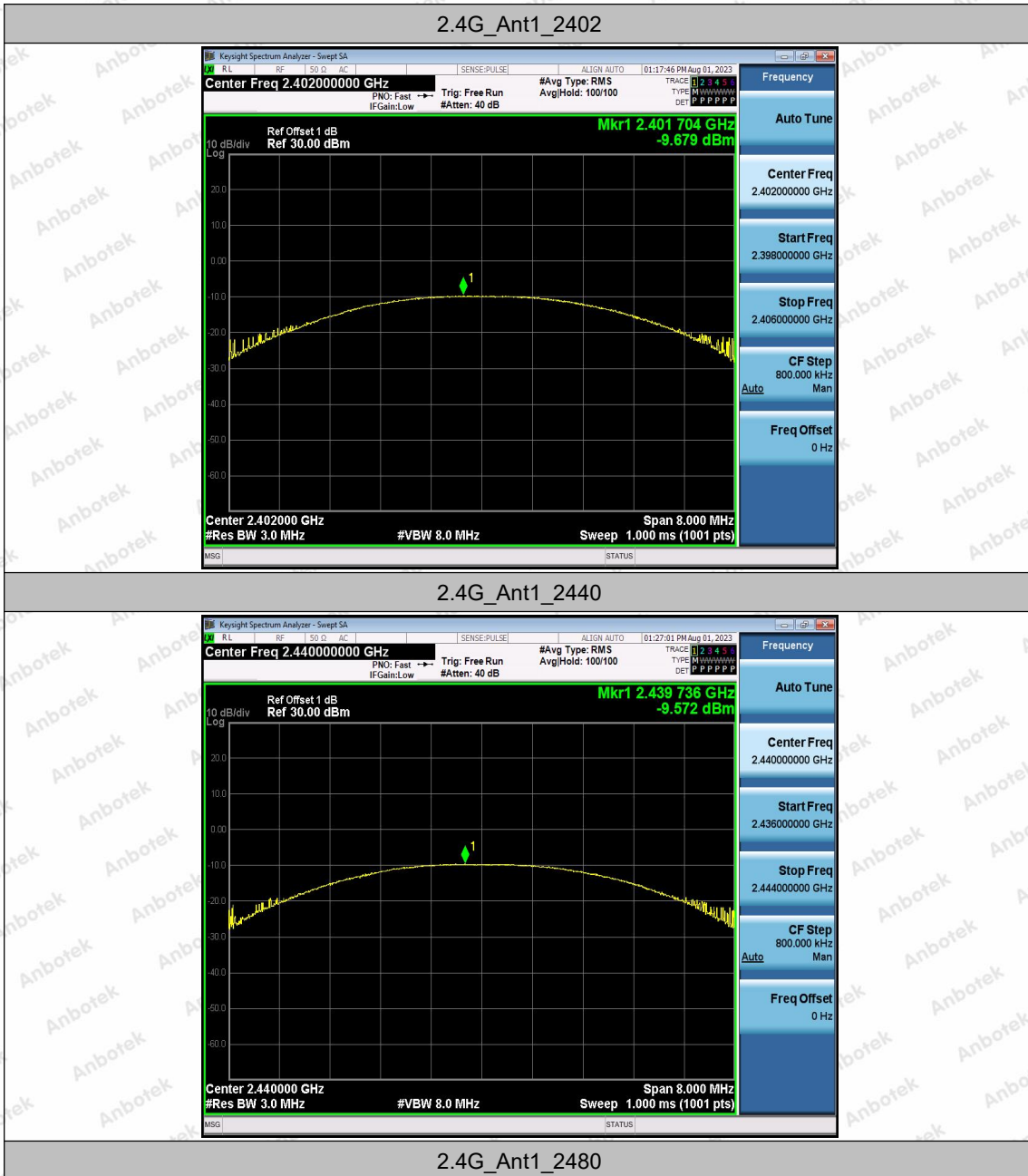
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Test Graphs



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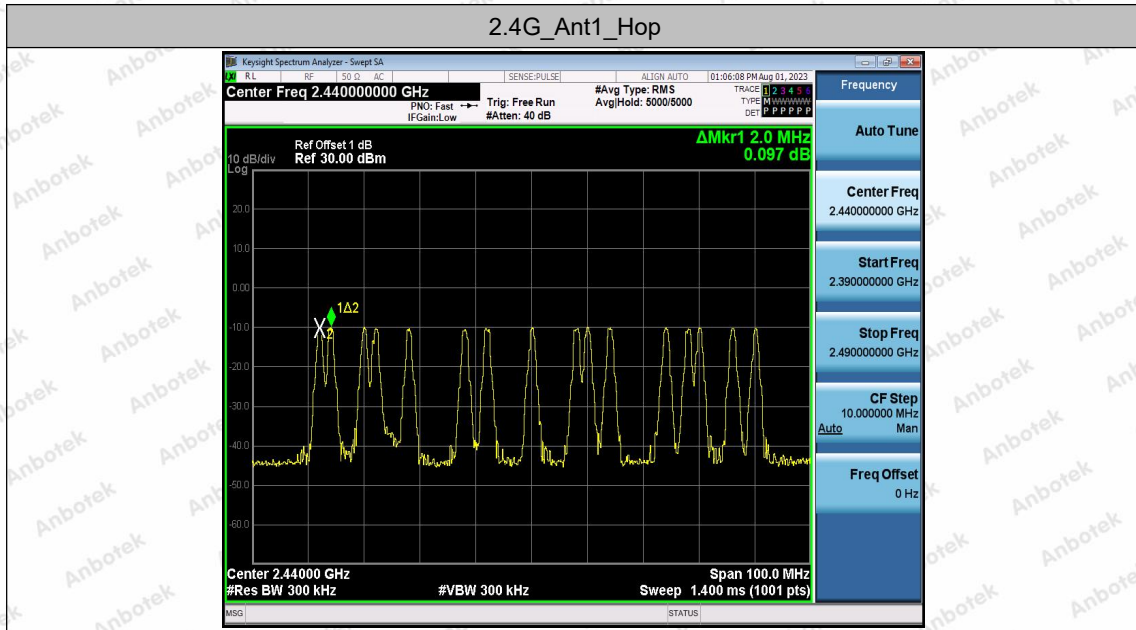
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥1.376	PASS



Test Graphs



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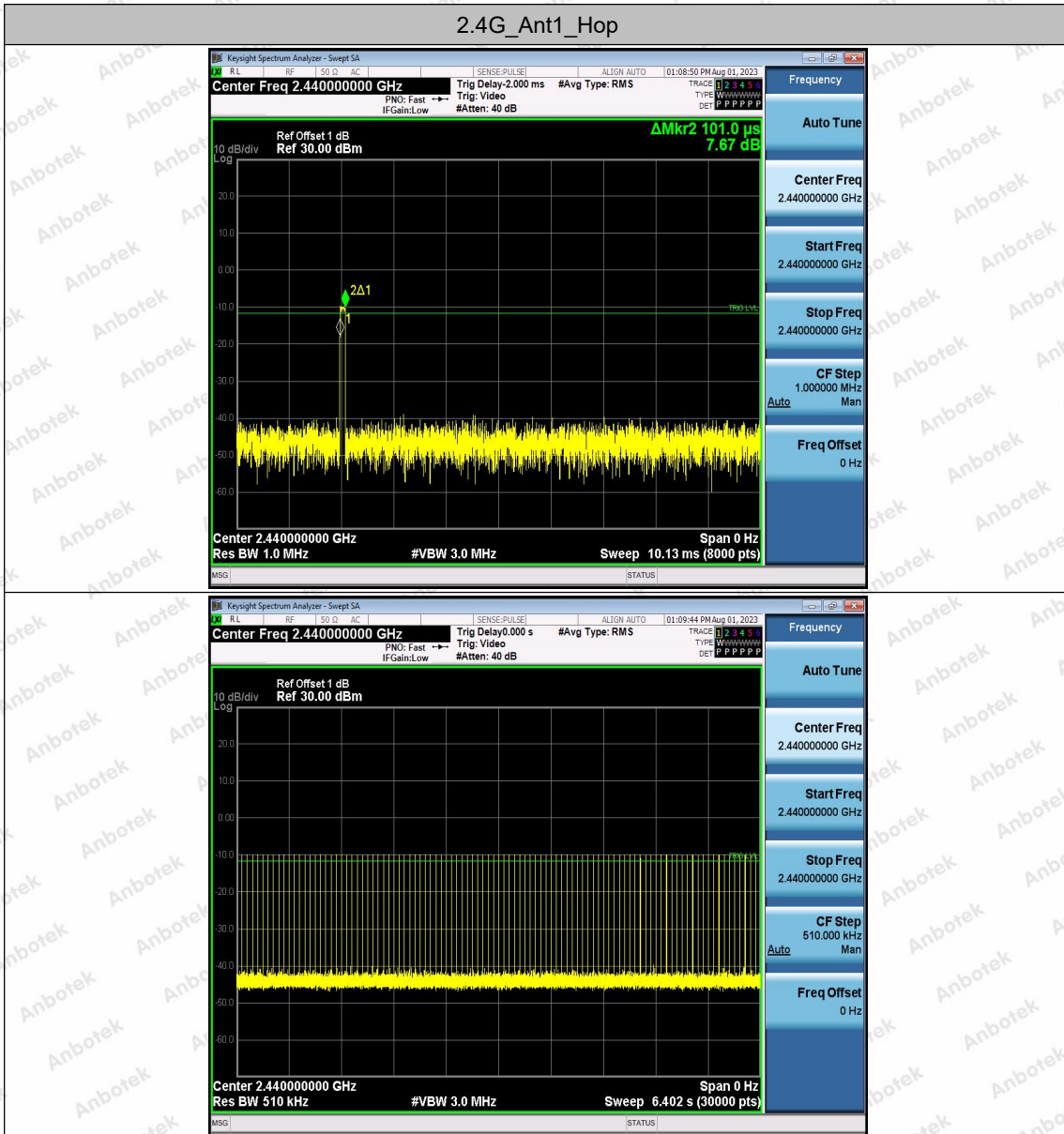
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.101	99	0.01	≤0.4	PASS



Test Graphs



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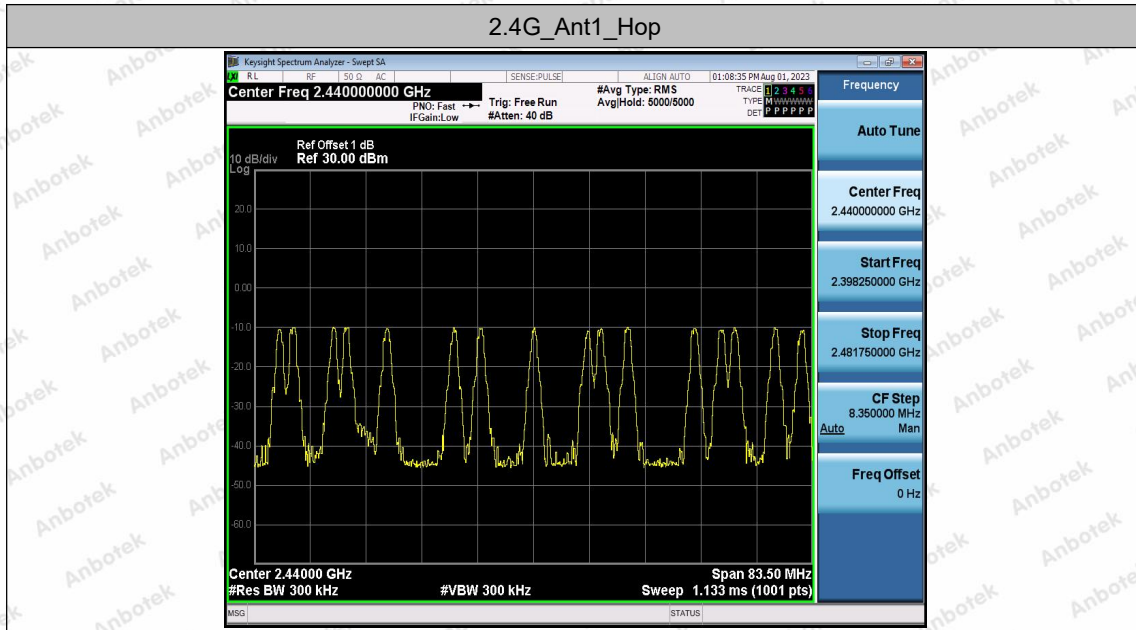
Appendix F: Number of hopping channels

Test Result

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



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	-12.32	-47.7	≤-32.32	PASS
		High	2480	-10.56	-51.79	≤-30.56	PASS
		Low	Hop_2402	-9.86	-55.25	≤-29.86	PASS
		High	Hop_2480	-10.58	-56.24	≤-30.58	PASS

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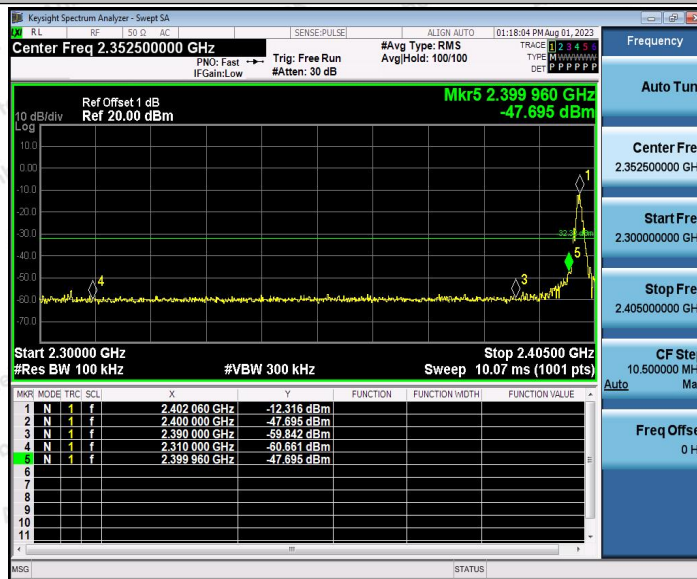


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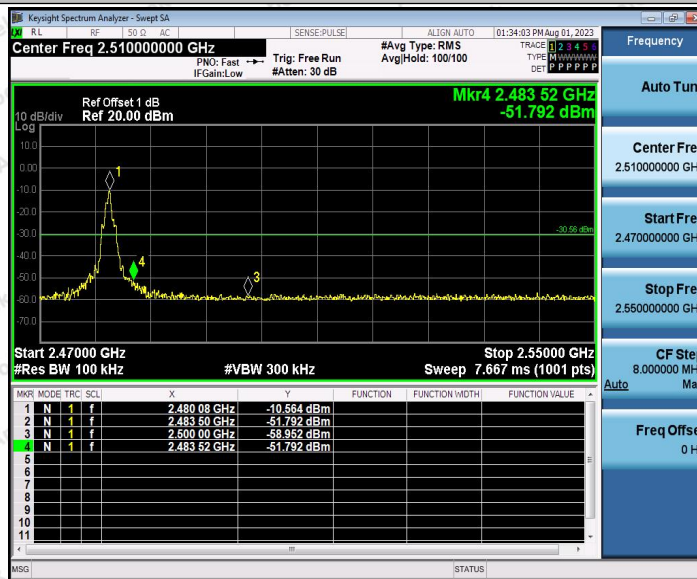


Test Graphs

2.4G_Ant1_Low_2402



2.4G_Ant1_High_2480



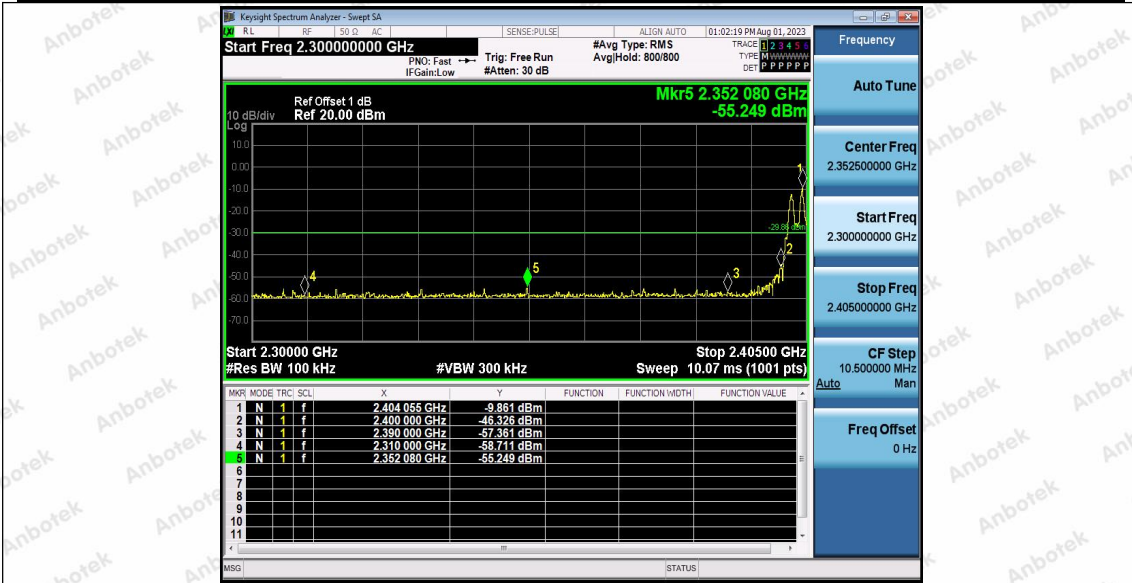
2.4G_Ant1_Low_Hop_2402

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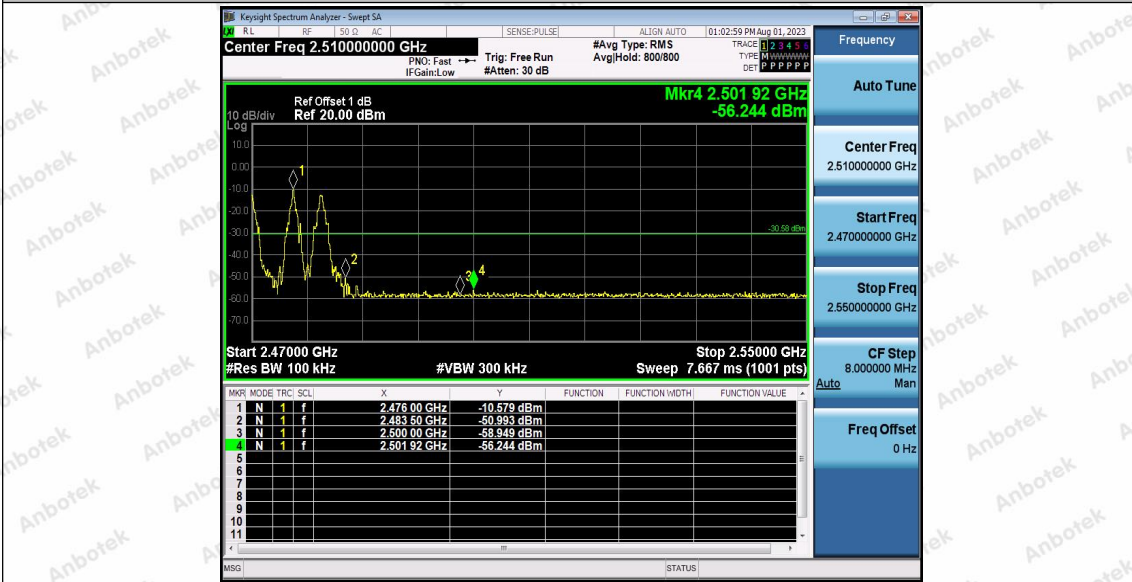
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2.4G_Ant1_High_Hop_2480



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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	-10.63	-10.63	---	PASS
			30~1000	-10.63	-69.32	≤-30.63	PASS
			1000~26500	-10.63	-53.23	≤-30.63	PASS
		2440	Reference	-10.51	-10.51	---	PASS
			30~1000	-10.51	-69.34	≤-30.51	PASS
			1000~26500	-10.51	-49.23	≤-30.51	PASS
		2480	Reference	-10.71	-10.71	---	PASS
			30~1000	-10.71	-69.3	≤-30.71	PASS
			1000~26500	-10.71	-47.17	≤-30.71	PASS

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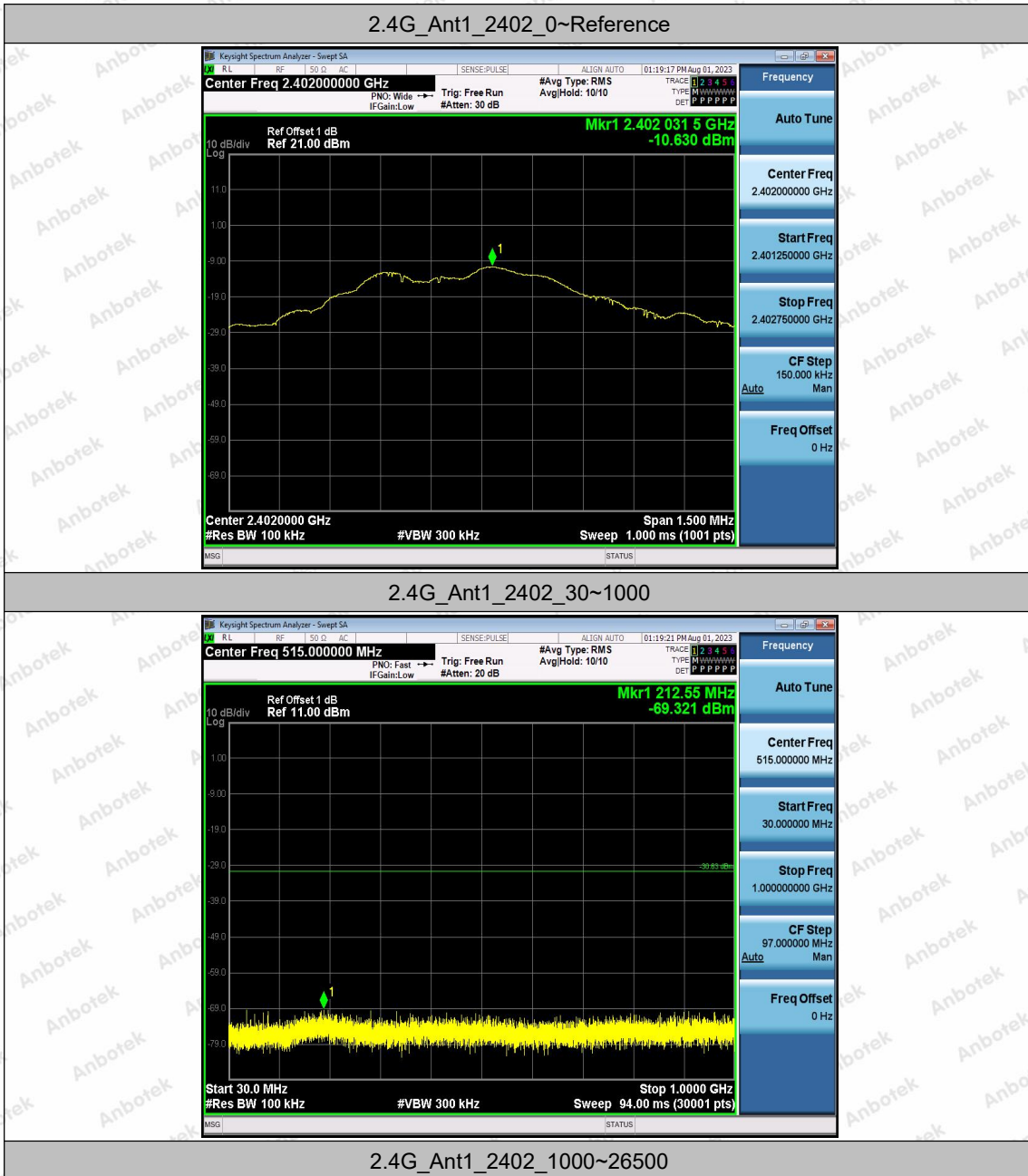
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Test Graphs

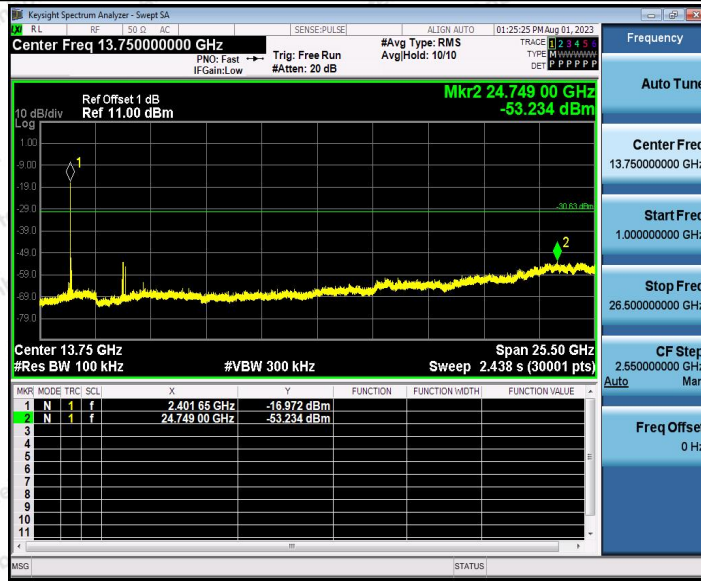


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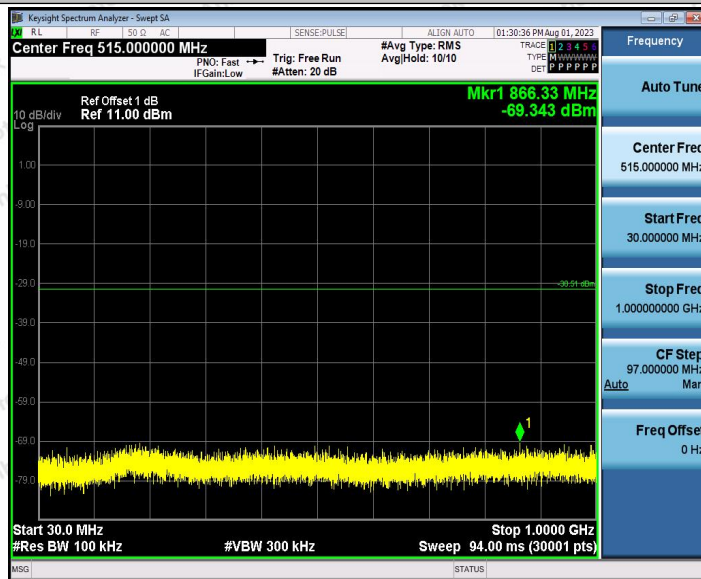




2.4G_Ant1_2440_0~Reference



2.4G_Ant1_2440_30~1000



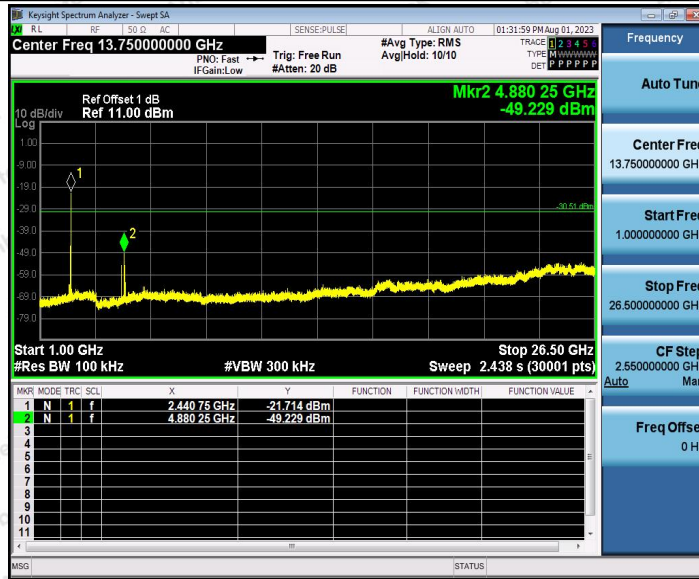
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2.4G_Ant1_2440_1000~26500



2.4G_Ant1_2480_0~Reference



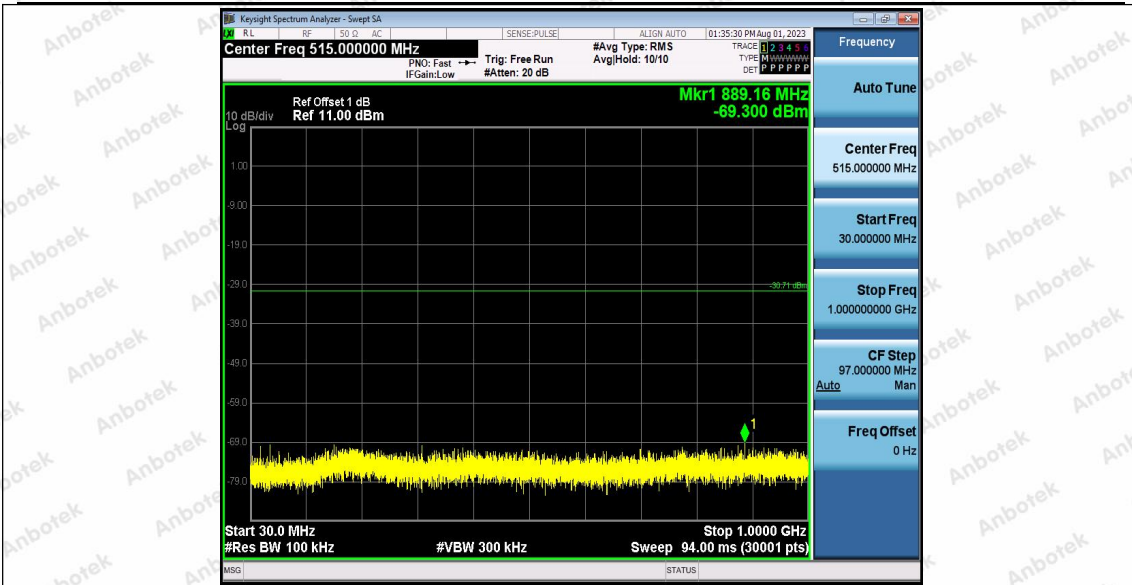
2.4G_Ant1_2480_30~1000

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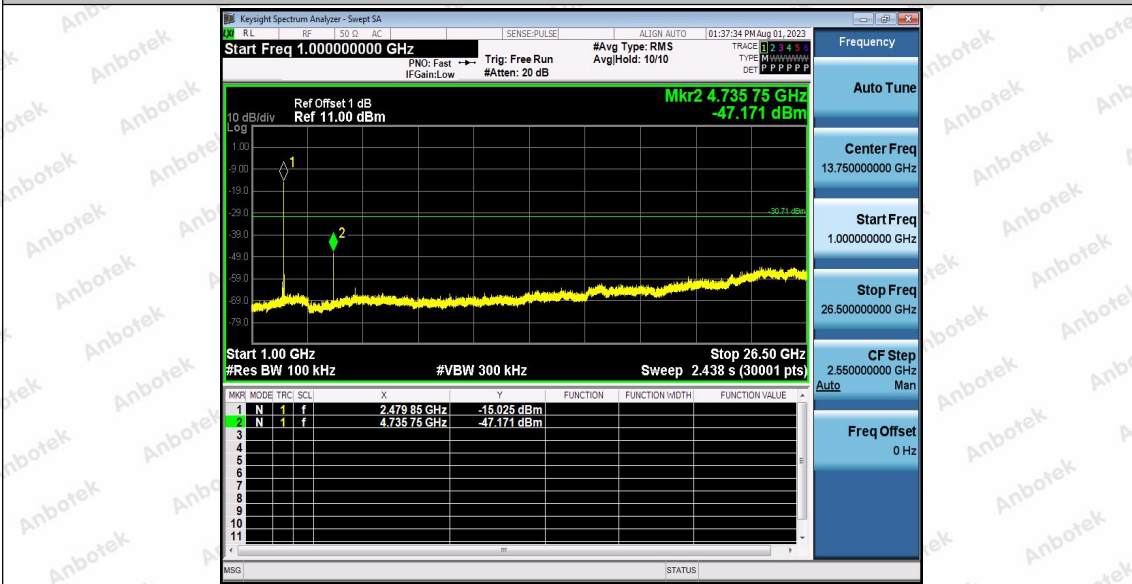
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2.4G_Ant1_2480_1000~26500



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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	0.05	4.00	1.25	19.03
		2440	0.05	4.00	1.25	19.03
		2480	0.05	4.00	1.25	19.03

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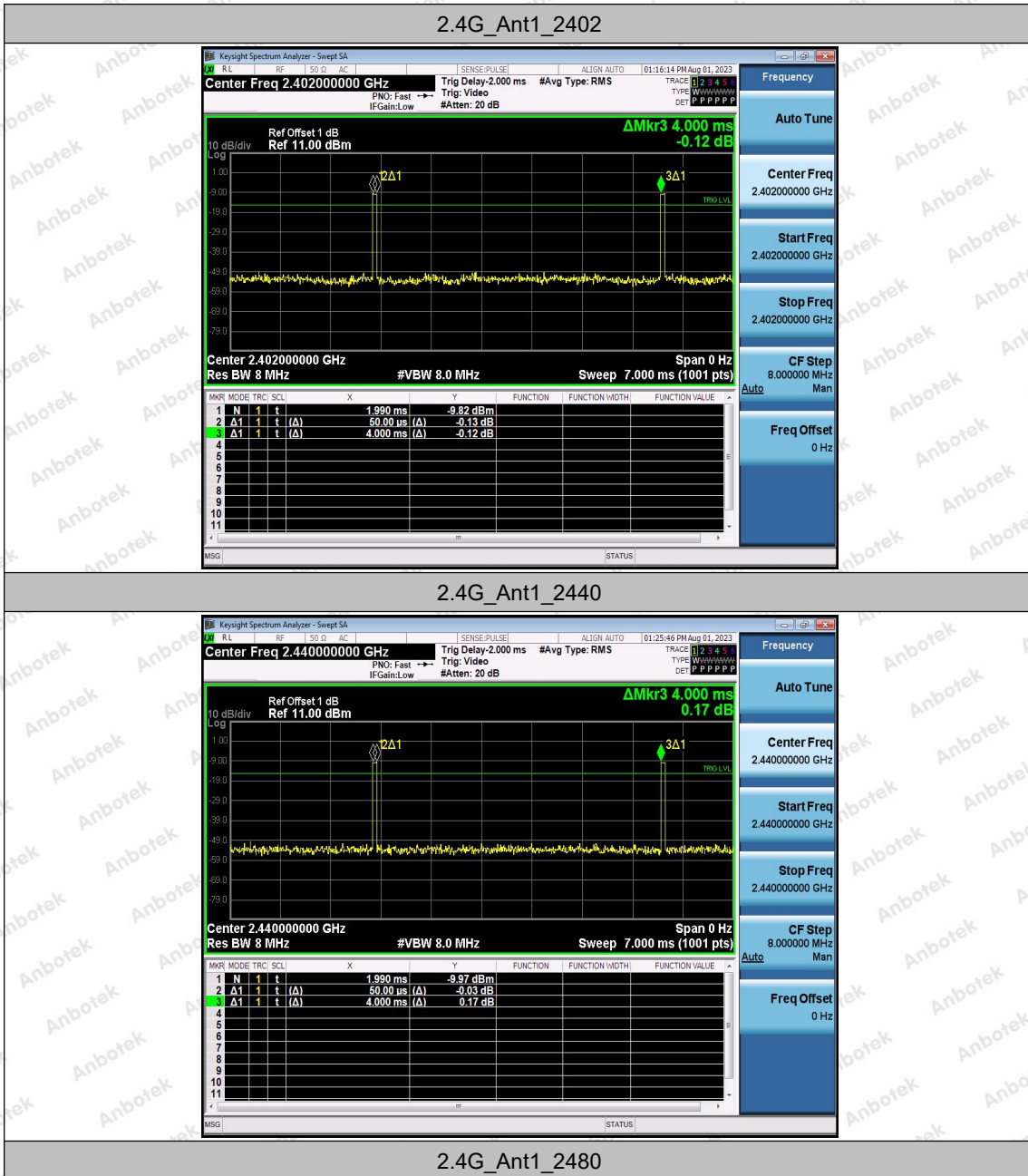
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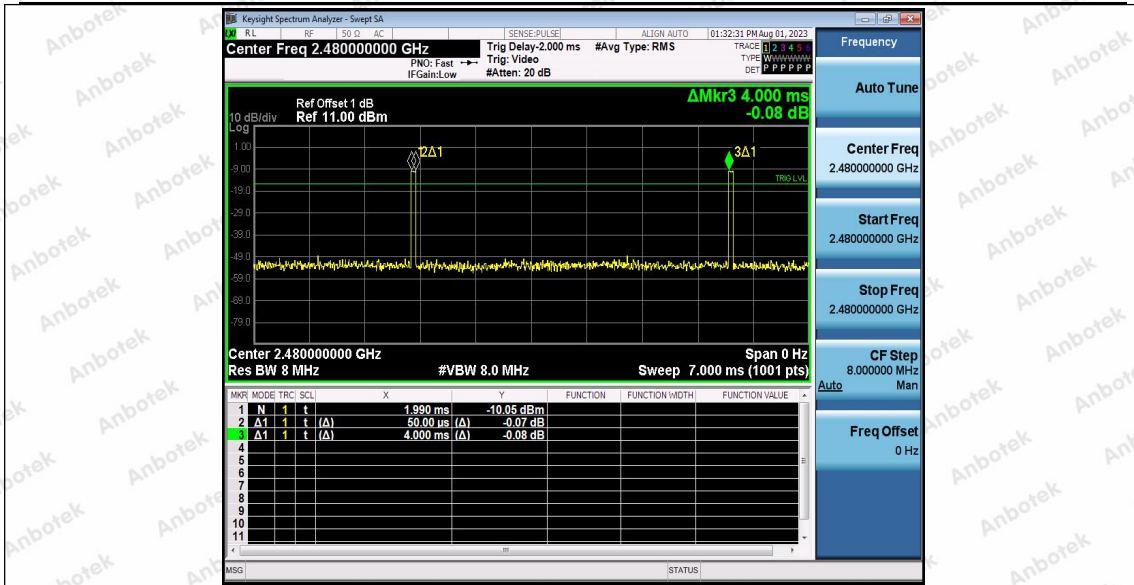


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