

Appendix Test Data

Report No.:	18220WC30215801	Test Sample No.:	1-2-2
Start Test Date:	2023.10.16	Finish Test Date:	2023.10.18
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	Relative Humidity:	48.4%
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	1.57	2402.17	2403.74	---	---
		2442	1.58	2441.16	2442.74	---	---
		2480	1.57	2479.17	2480.74	---	---

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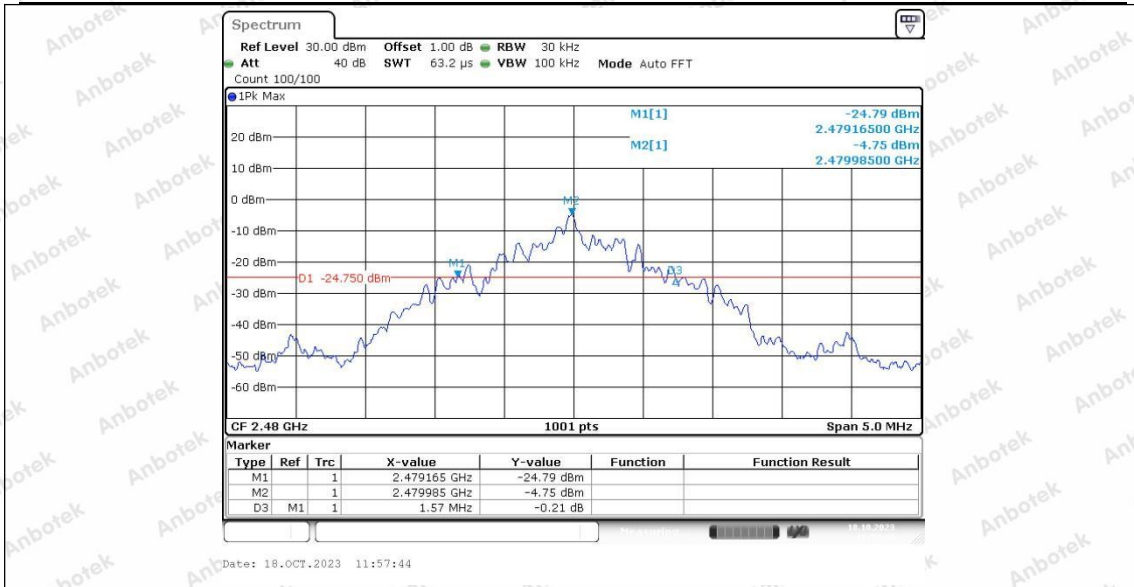


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Test Graphs





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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	1.878	2402.0460	2403.9241	---	---
		2442	1.868	2441.0460	2442.9141	---	---
		2480	1.888	2479.0410	2480.9291	---	---

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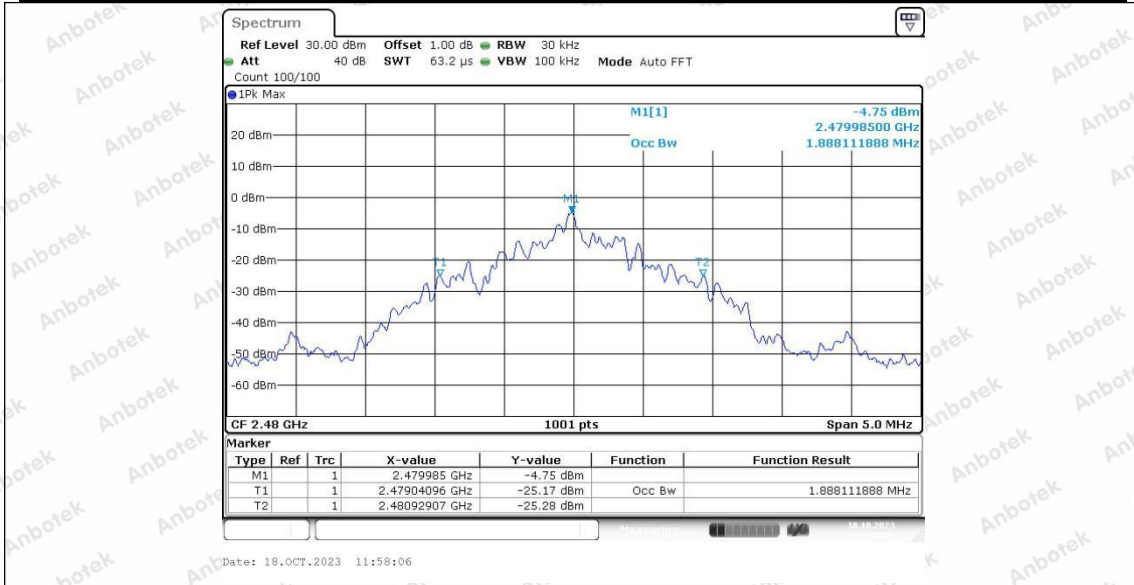


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Appendix C: Maximum conducted output power

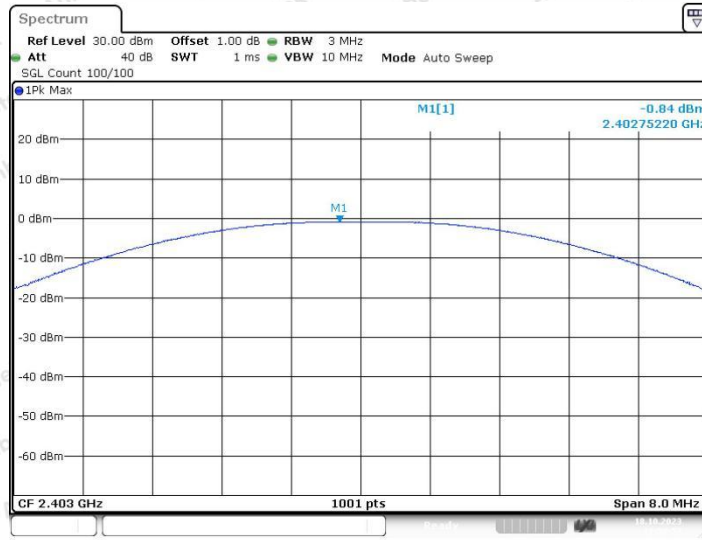
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	-0.84	≤20.97	PASS
		2442	-1.15	≤20.97	PASS
		2480	-1.45	≤20.97	PASS

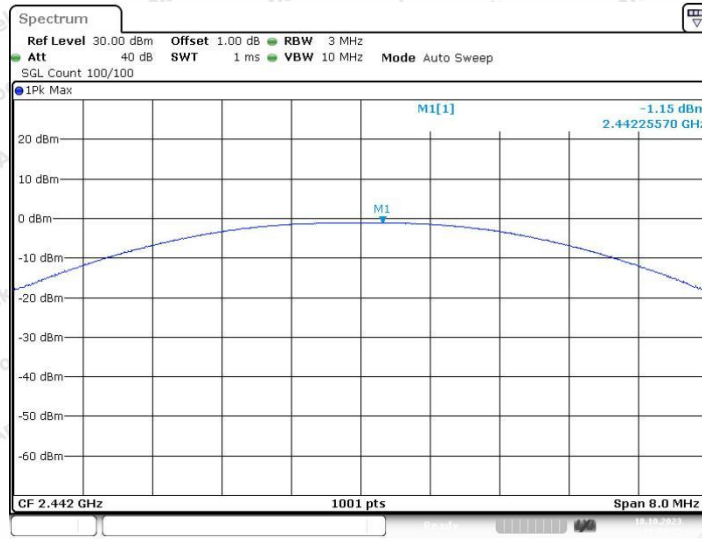


Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2442



2.4G_Ant1_2480

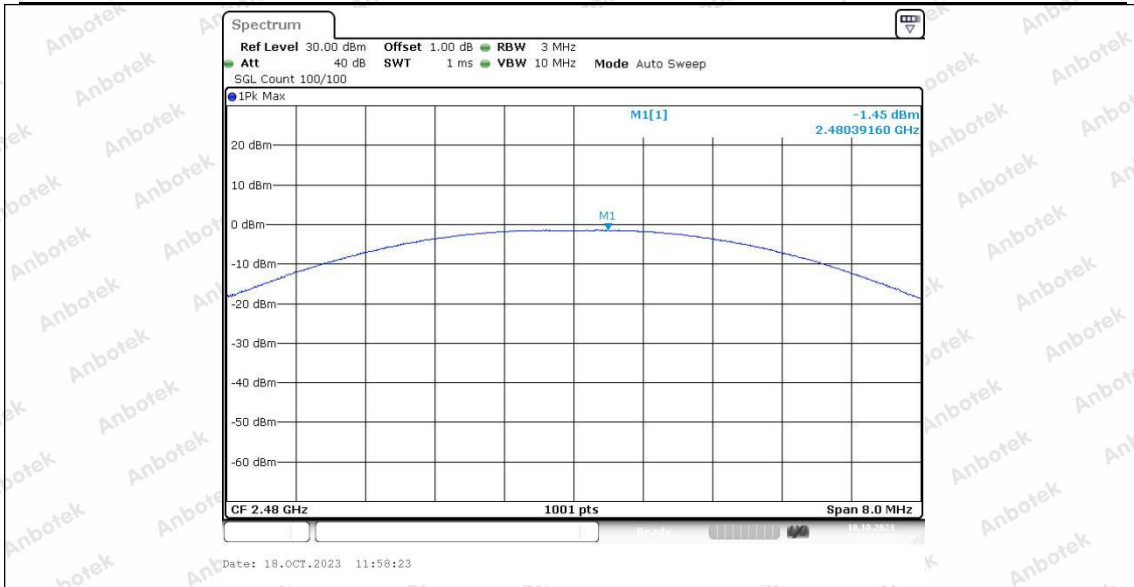
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥1.053	PASS

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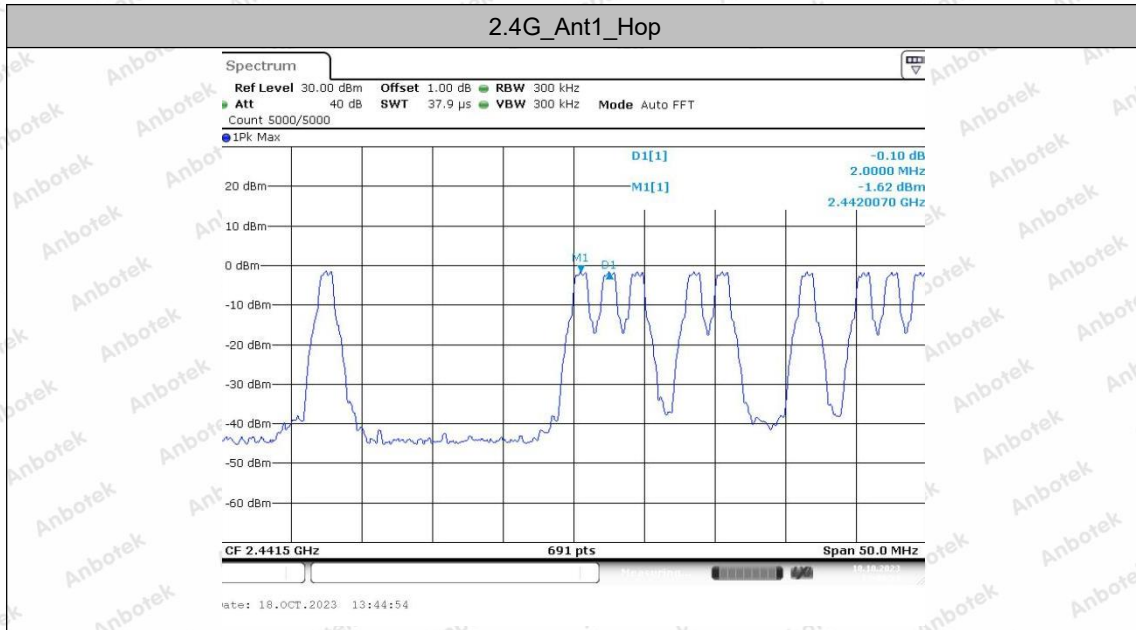
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.106	50	0.005	≤0.4	PASS

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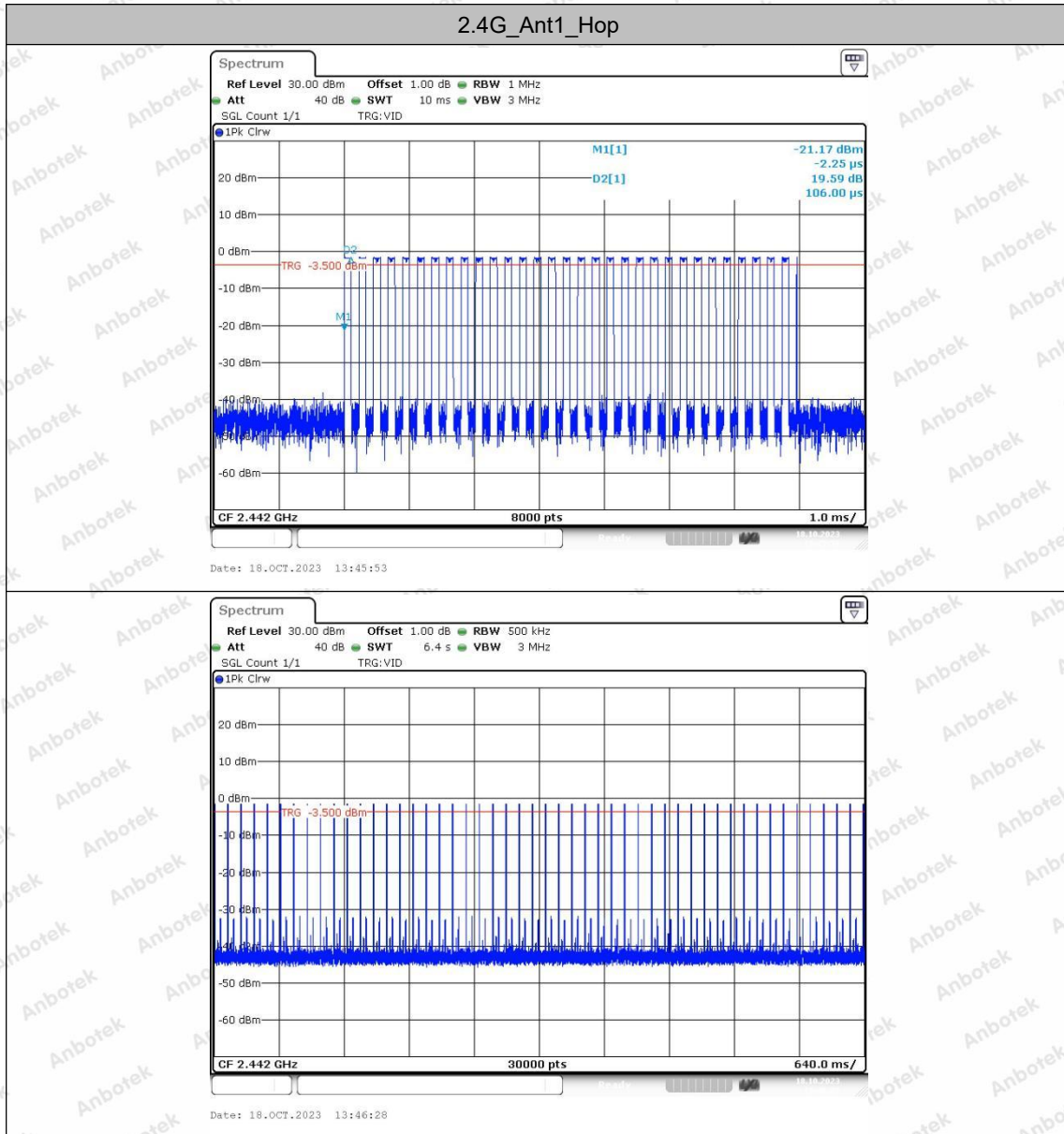
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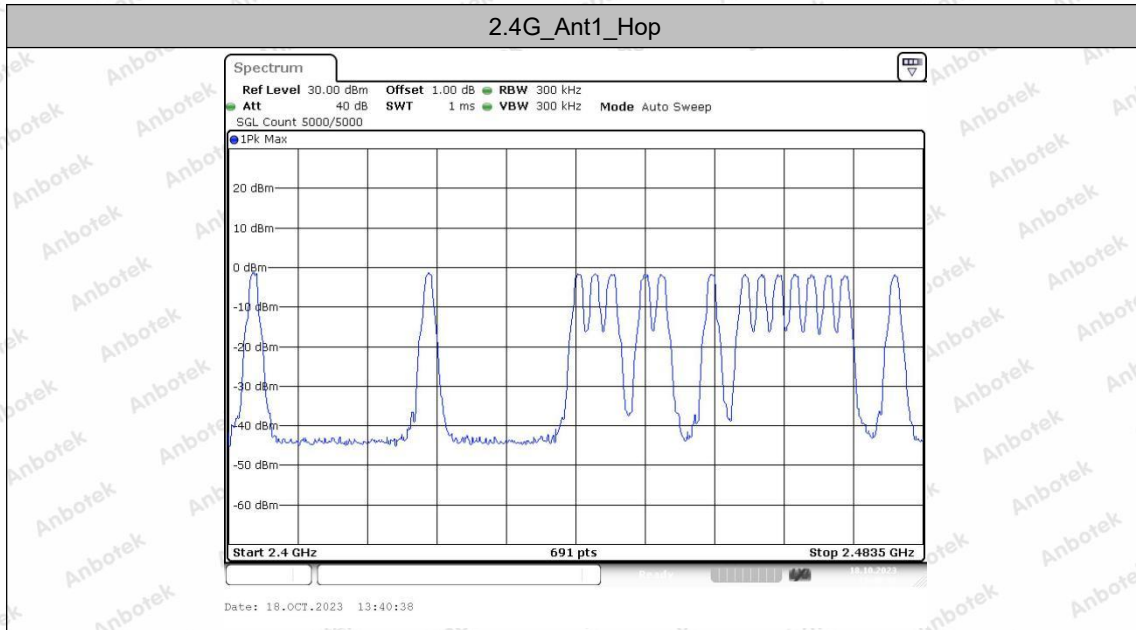
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	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	2403	-1.02	-47.95	≤-21.02	PASS
		High	2480	-1.55	-51.54	≤-21.55	PASS
		Low	Hop_2403	-1.01	-56.7	≤-21.01	PASS
		High	Hop_2480	-1.50	-56	≤-21.5	PASS

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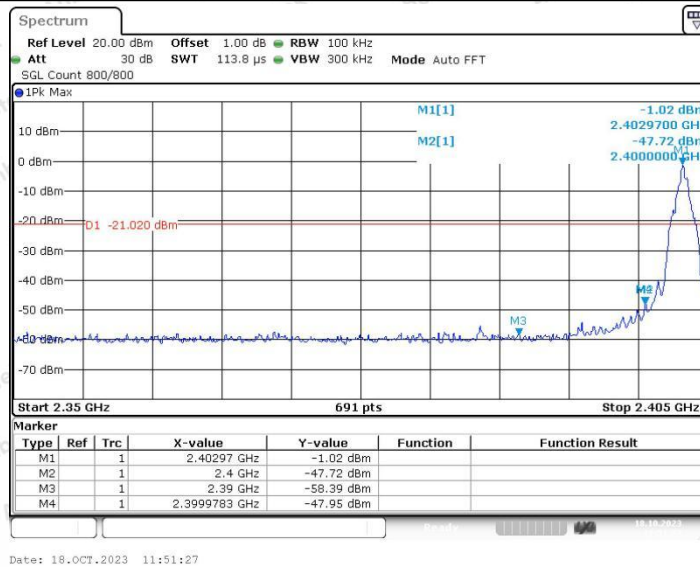


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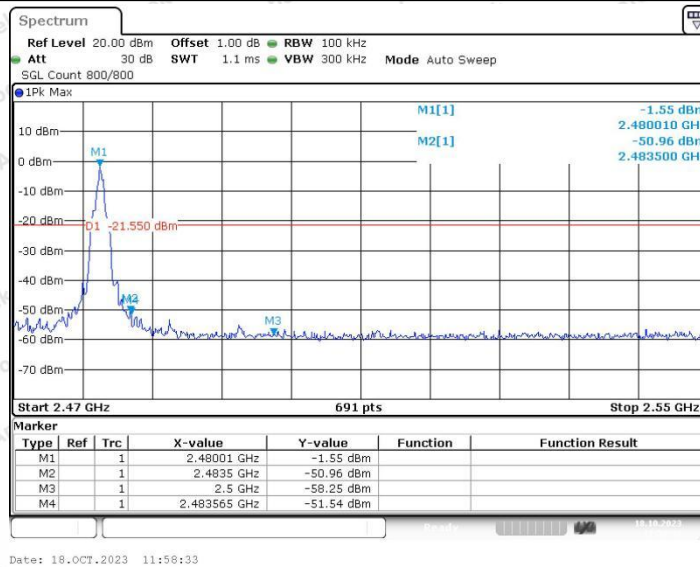


Test Graphs

2.4G_Ant1_Low_2403

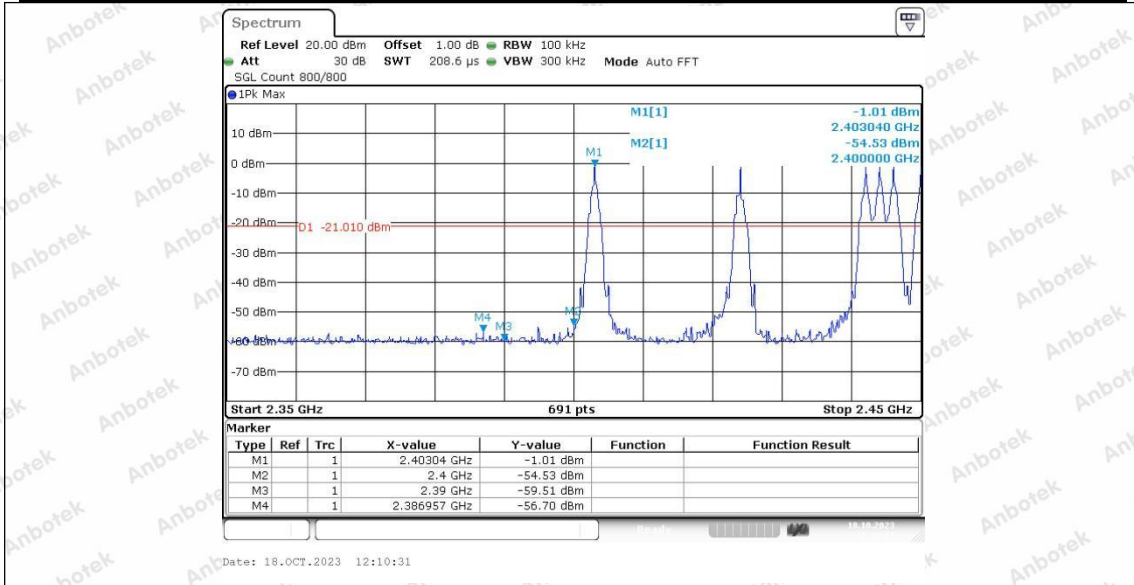


2.4G_Ant1_High_2480

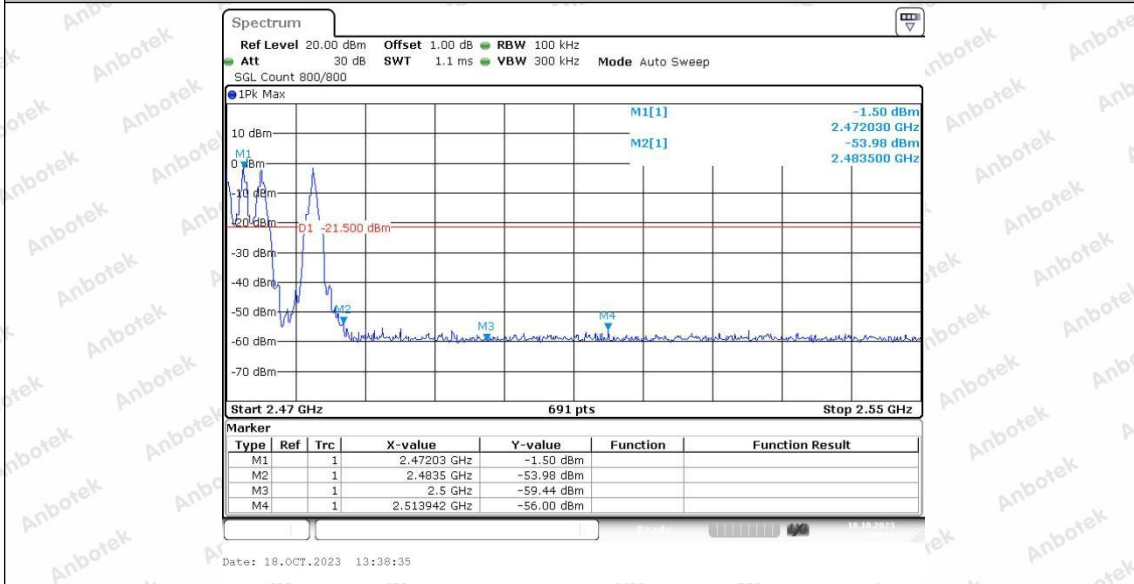


2.4G_Ant1_Low_Hop_2403





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	2403	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-60.49	≤-21.01	PASS
			1000~26500	-1.01	-40.44	≤-21.01	PASS
		2442	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-65.04	≤-21.33	PASS
			1000~26500	-1.33	-46.42	≤-21.33	PASS
		2480	Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-64.93	≤-21.62	PASS
			1000~26500	-1.62	-48.53	≤-21.62	PASS

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Test Graphs



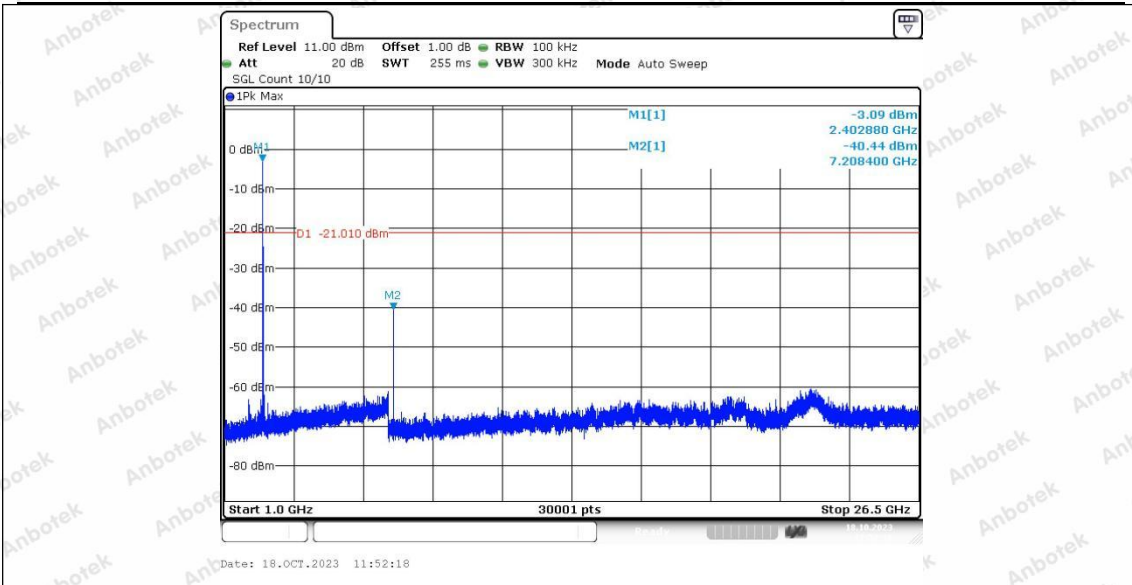
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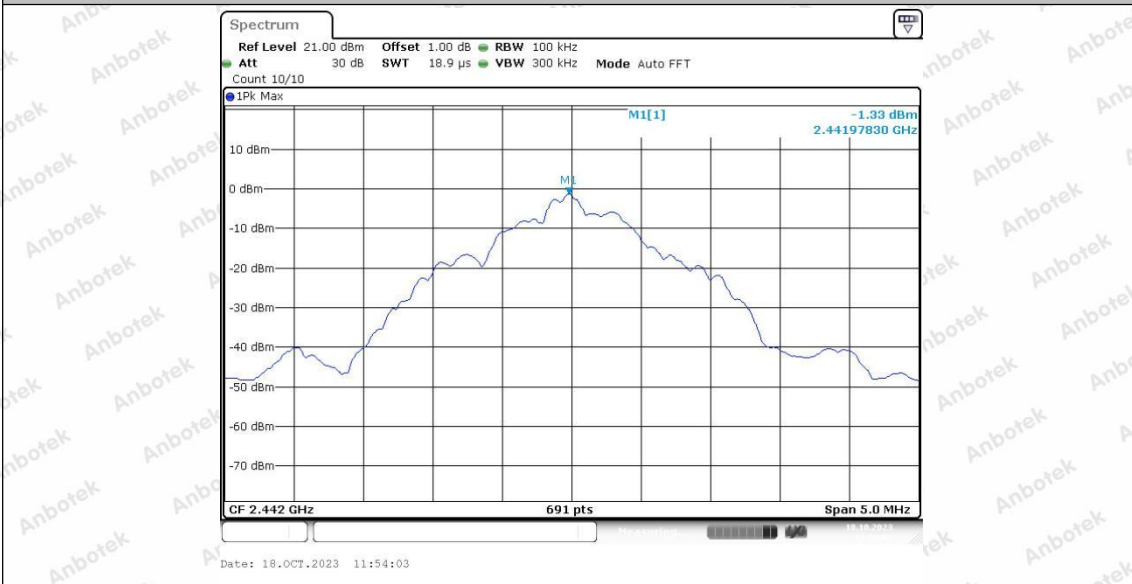


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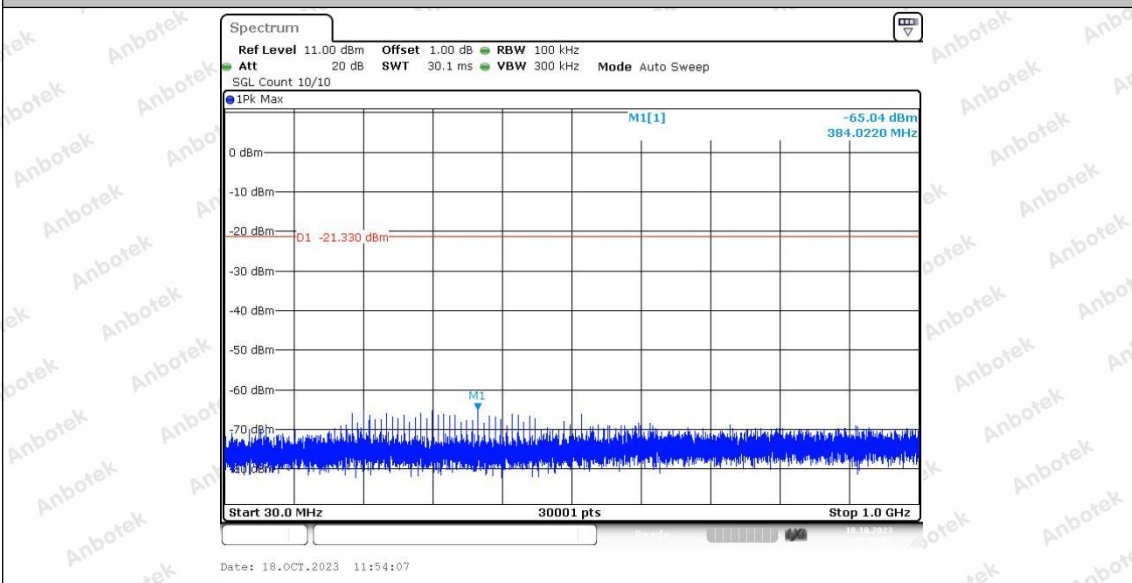




2.4G_Ant1_2442_0~Reference



2.4G_Ant1_2442_30~1000

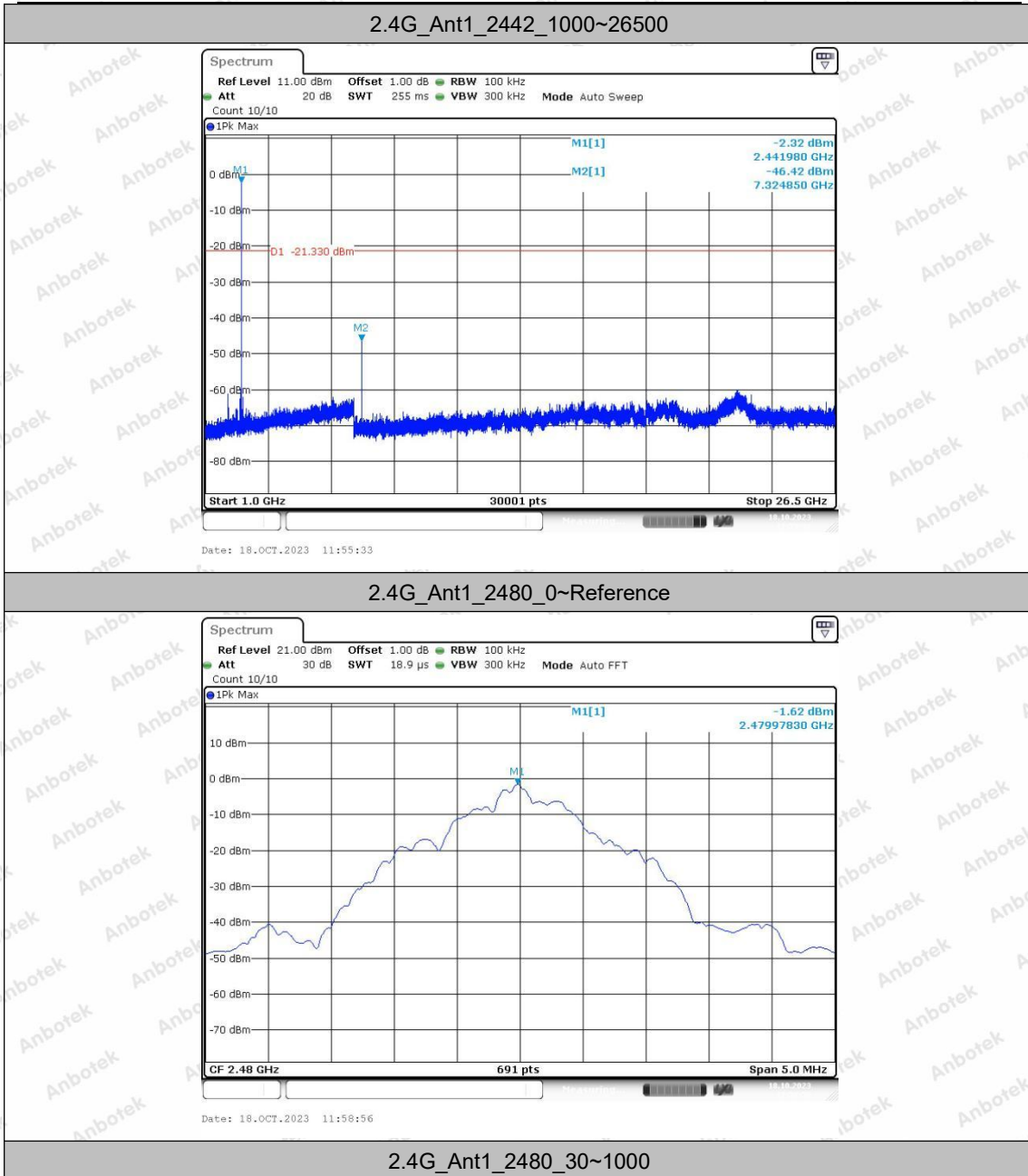


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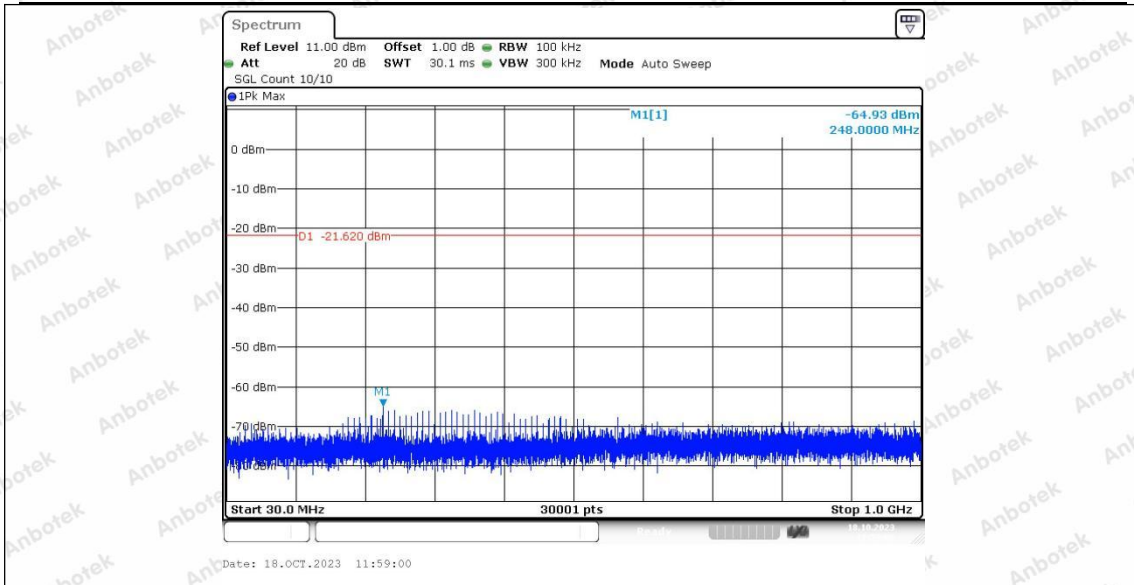
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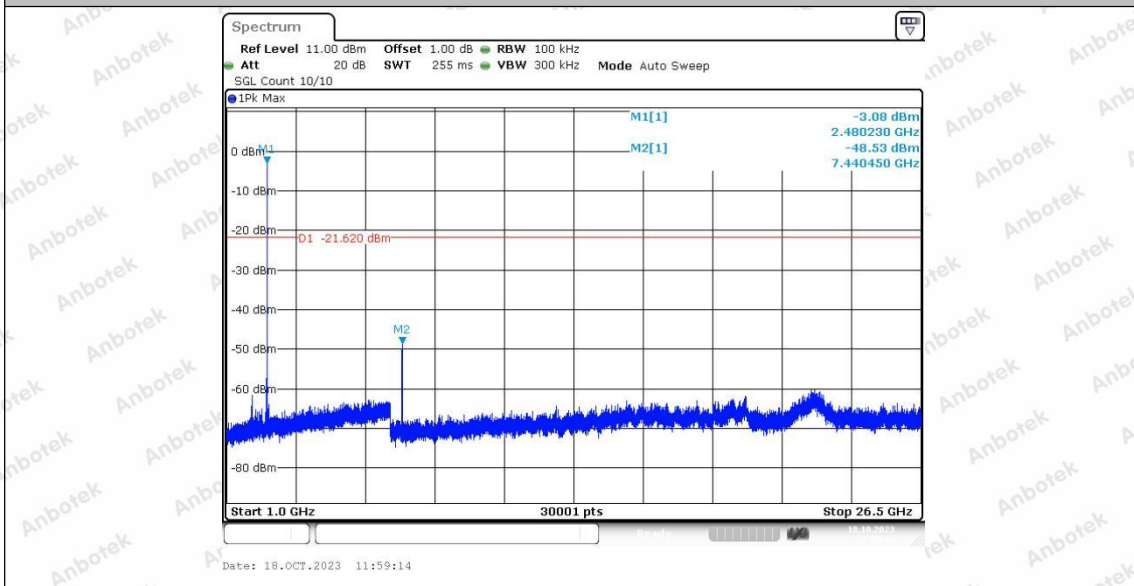


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2.4G_Ant1_2480_1000~26500



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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	2403	0.10	0.22	45.45	3.42
		2442	0.10	0.22	45.45	3.42
		2480	0.10	0.22	45.45	3.42

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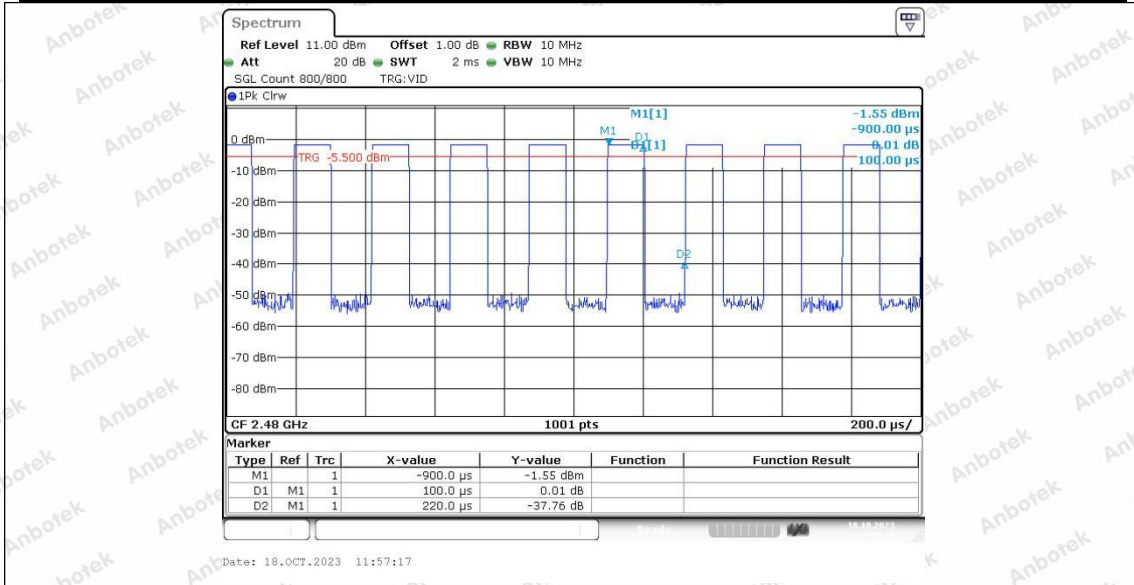


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