

Appendix Test Data

Report No.:	18220WC30183803	Test Sample No.:	1-2-2
Start Test Date:	2023.10.17	Finish Test Date:	2023.10.24
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	Relative Humidity:	48.2%
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	2402.4	0.747	2402.03	2402.78	---	---
		2441.4	0.777	2441.02	2441.80	---	---
		2479.4	0.753	2479.03	2479.78	---	---

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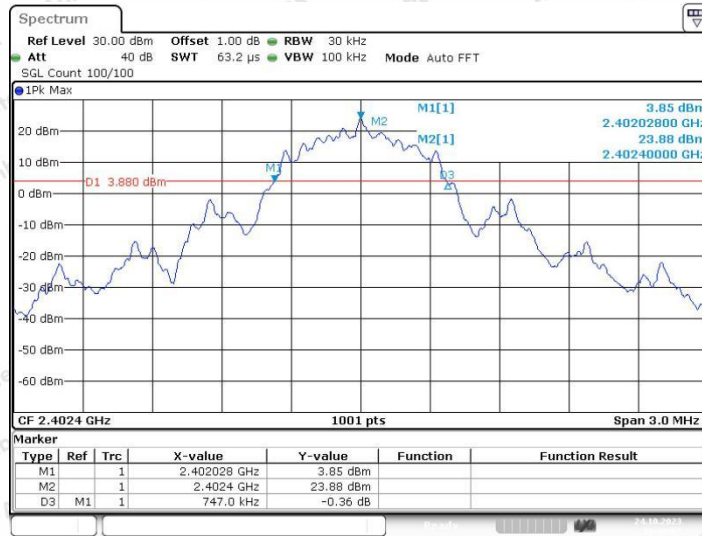


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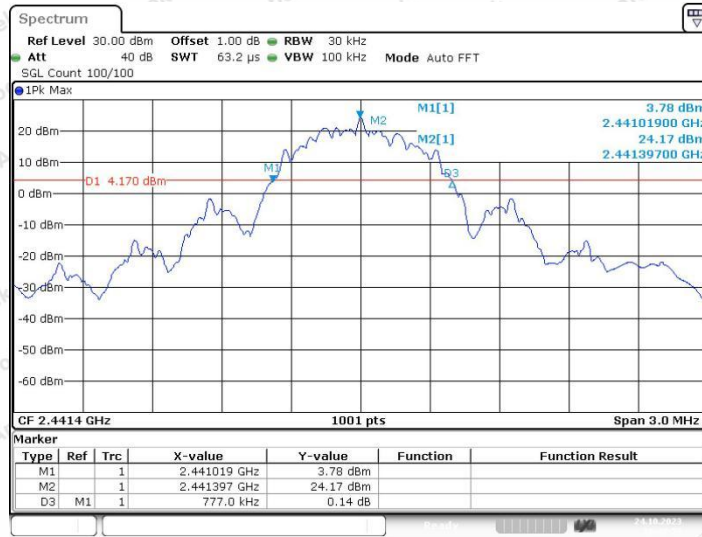


Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



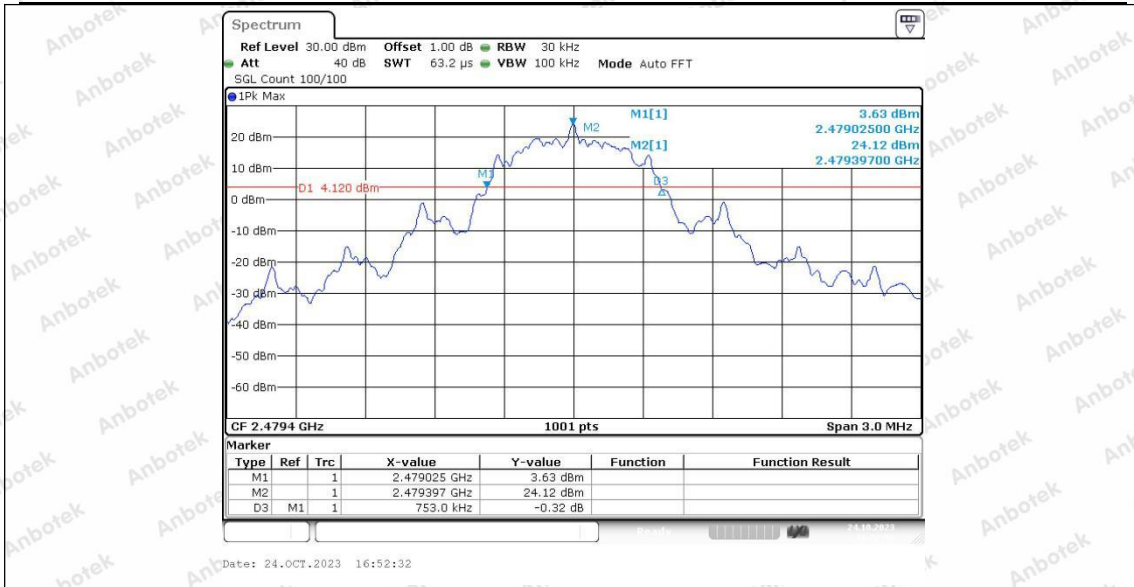
2.4G_Ant1_2479.4

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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	2402.4	0.728	2402.0404	2402.7686	---	---
		2441.4	0.719	2441.0464	2441.7656	---	---
		2479.4	0.731	2479.0374	2479.7686	---	---

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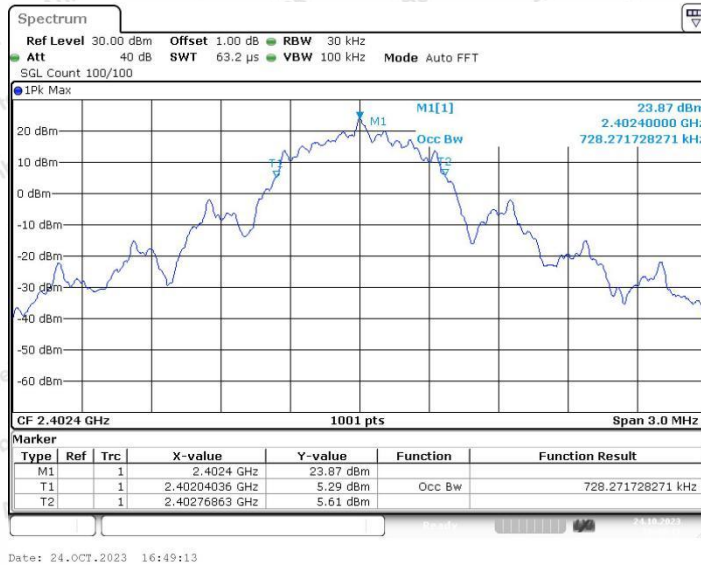


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Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

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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	2402.4	28.25	≤30	PASS
		2441.4	27.92	≤30	PASS
		2479.4	27.75	≤30	PASS

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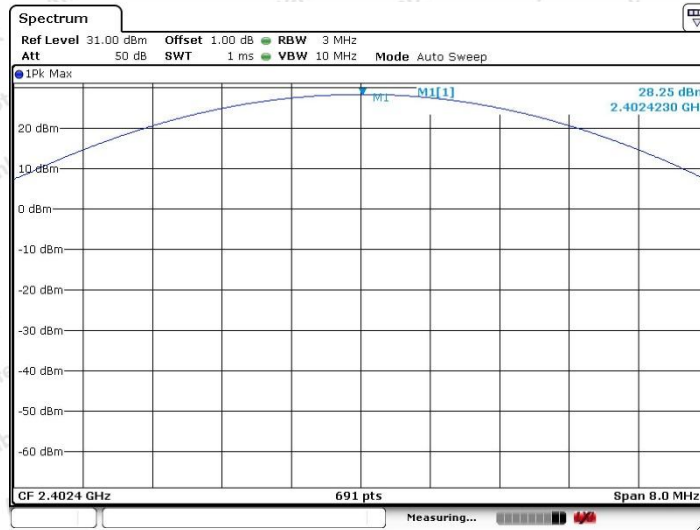


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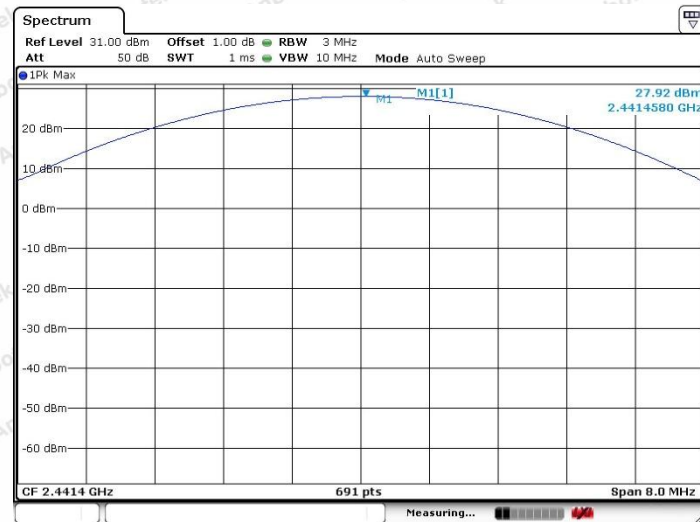


Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

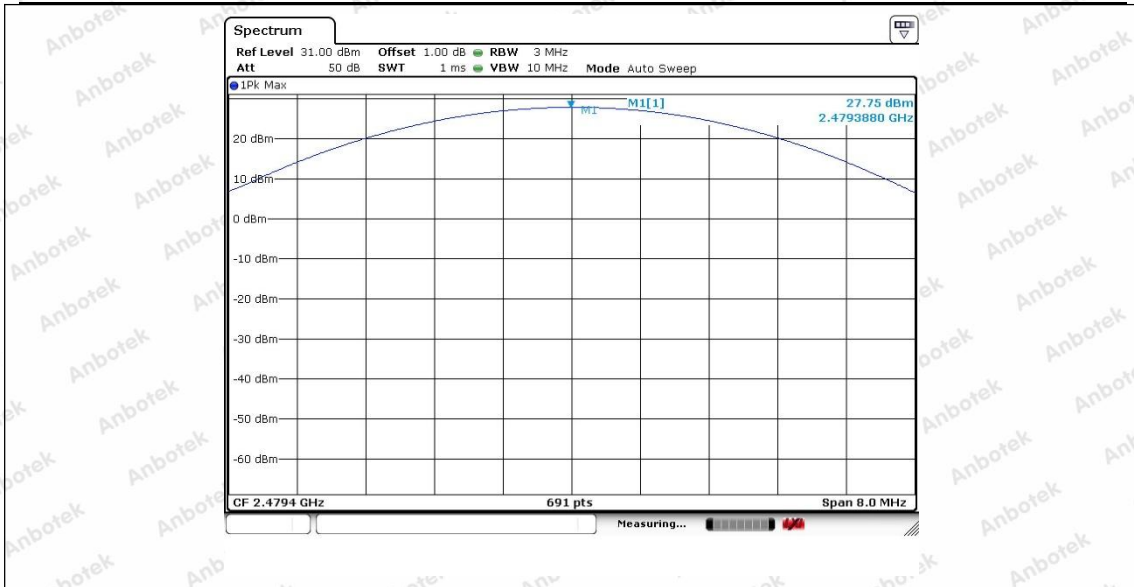
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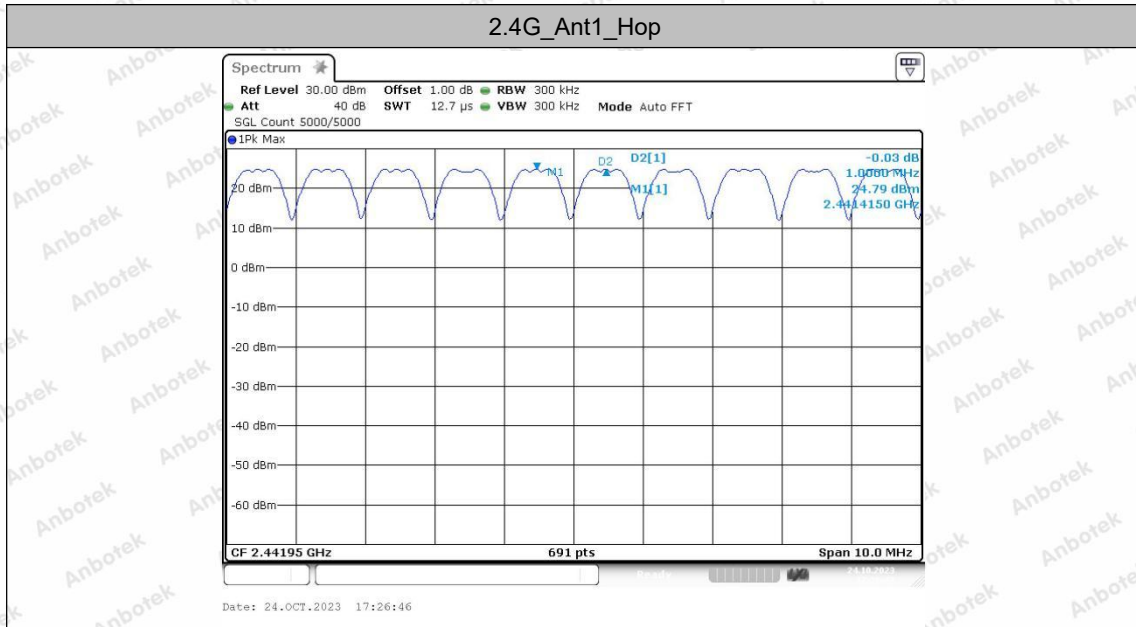
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.000	≥0.777	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	0.444	369	0.164	≤0.4	PASS

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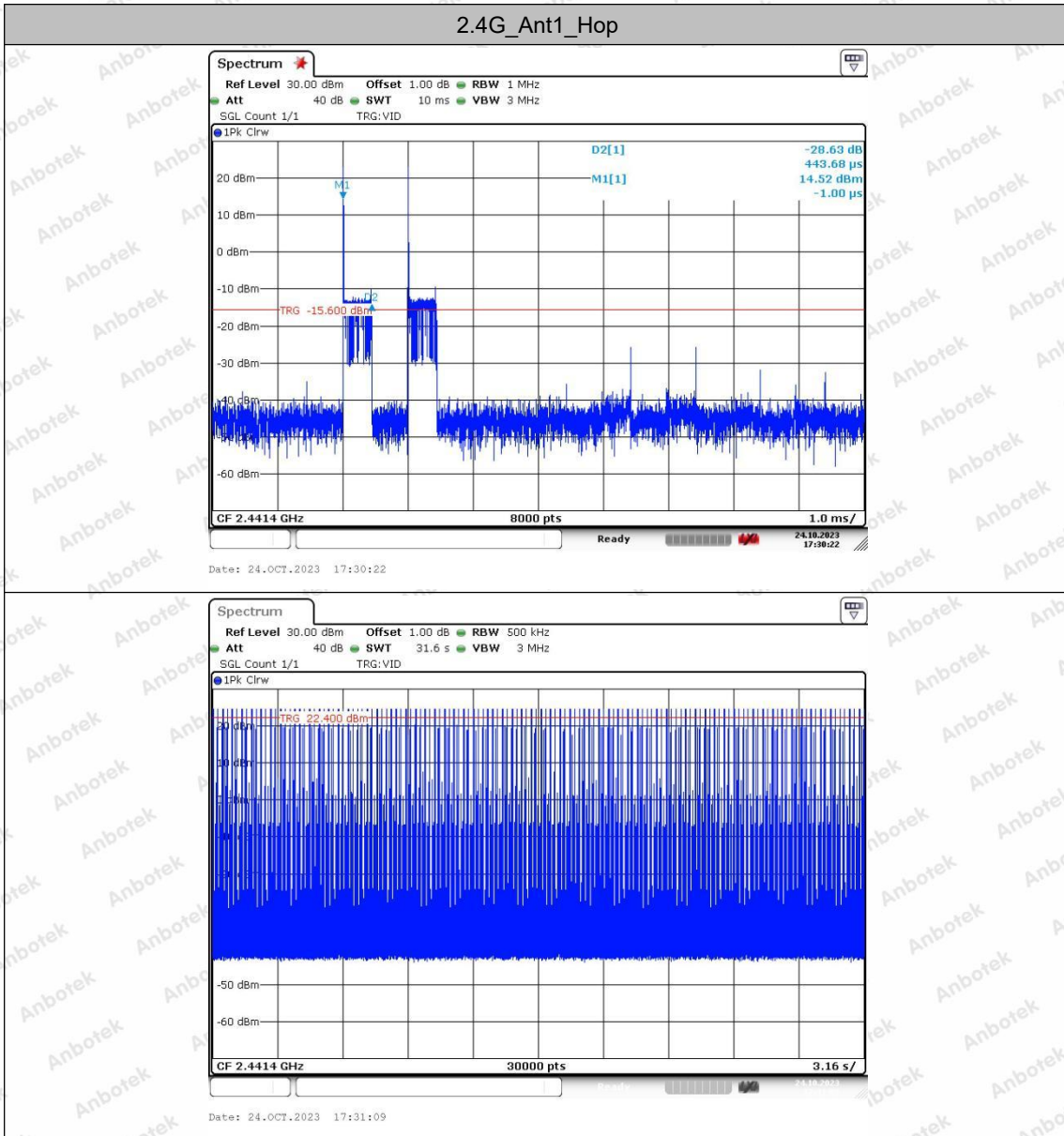
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Test Graphs



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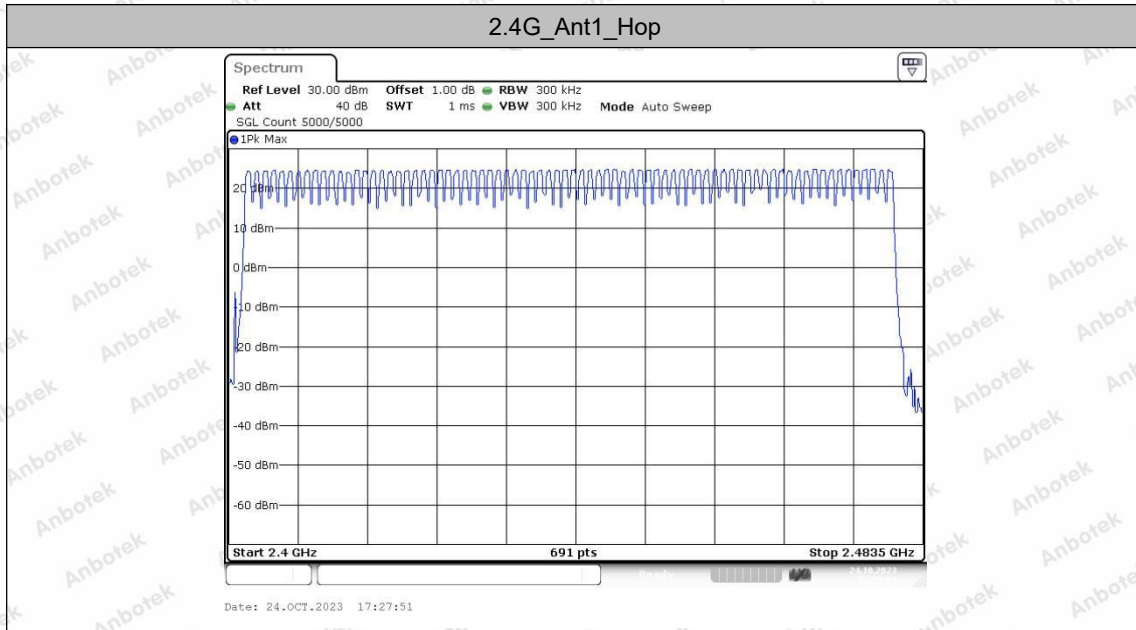
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	78	≥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	2402.4	24.40	-29.76	≤4.4	PASS
		High	2479.4	24.96	-36.32	≤4.96	PASS
		Low	Hop_2402.4	23.86	-43.46	≤3.86	PASS
		High	Hop_2479.4	24.90	-36.31	≤4.9	PASS

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Test Graphs

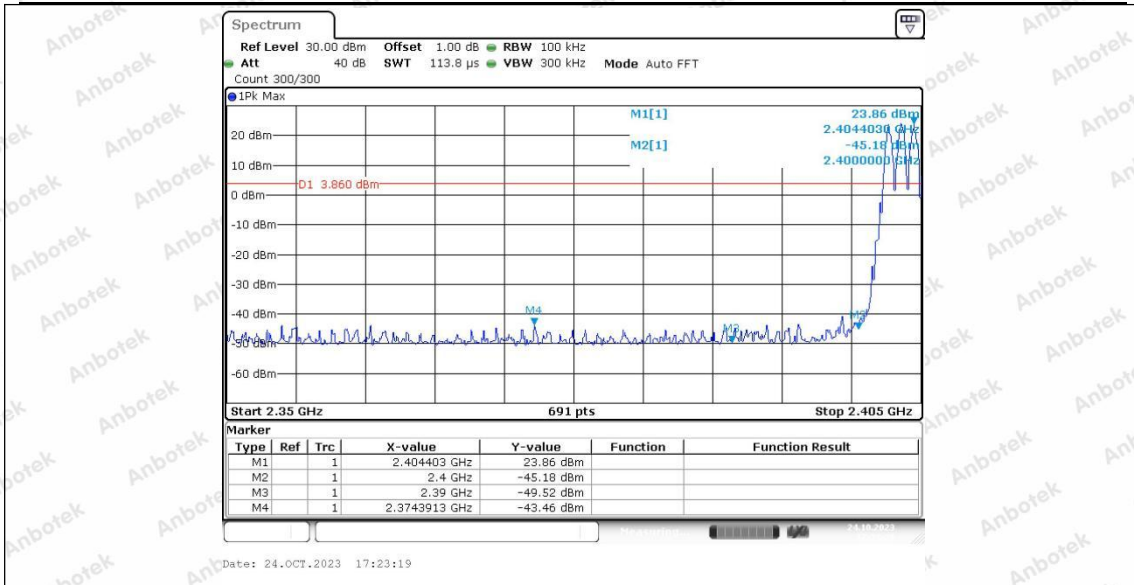


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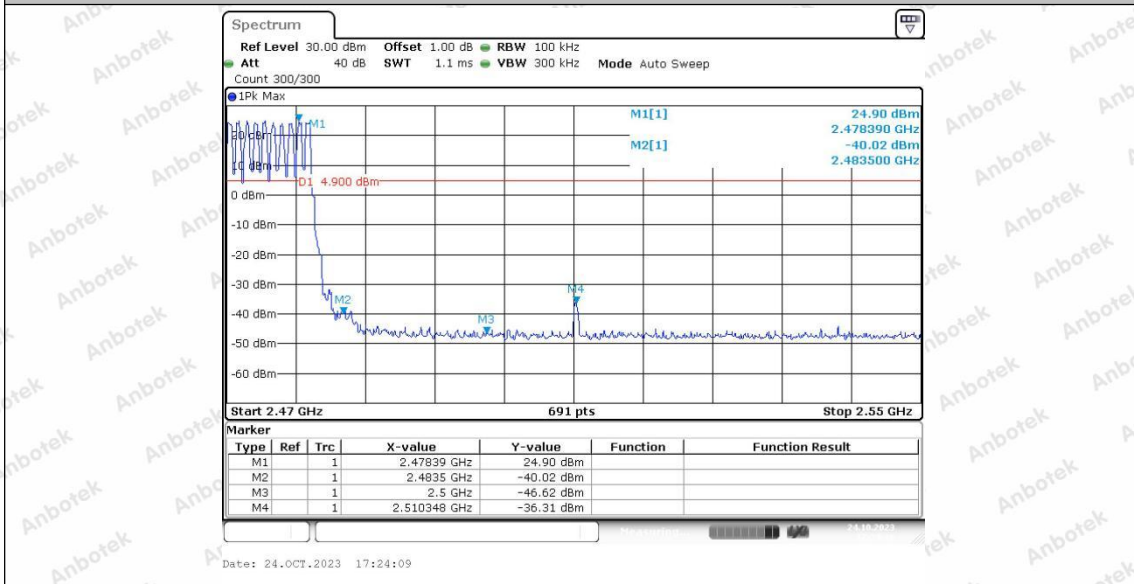
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2.4G_Ant1_High_Hop_2479.4



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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	2402.4	Reference	24.11	24.11	---	PASS
			30~1000	24.11	-47.6	≤4.11	PASS
			1000~26500	24.11	-32.26	≤4.11	PASS
		2441.4	Reference	24.72	24.72	---	PASS
			30~1000	24.72	-48.1	≤4.72	PASS
			1000~26500	24.72	-31.74	≤4.72	PASS
		2479.4	Reference	24.83	24.83	---	PASS
			30~1000	24.83	-57.58	≤4.83	PASS
			1000~26500	24.83	-31.67	≤4.83	PASS

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Test Graphs

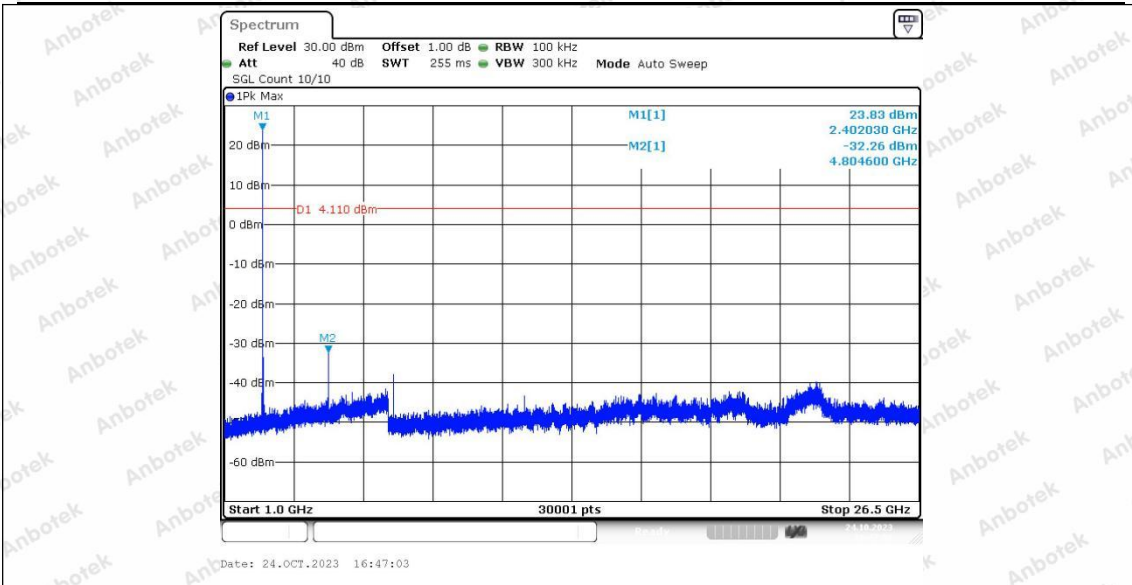


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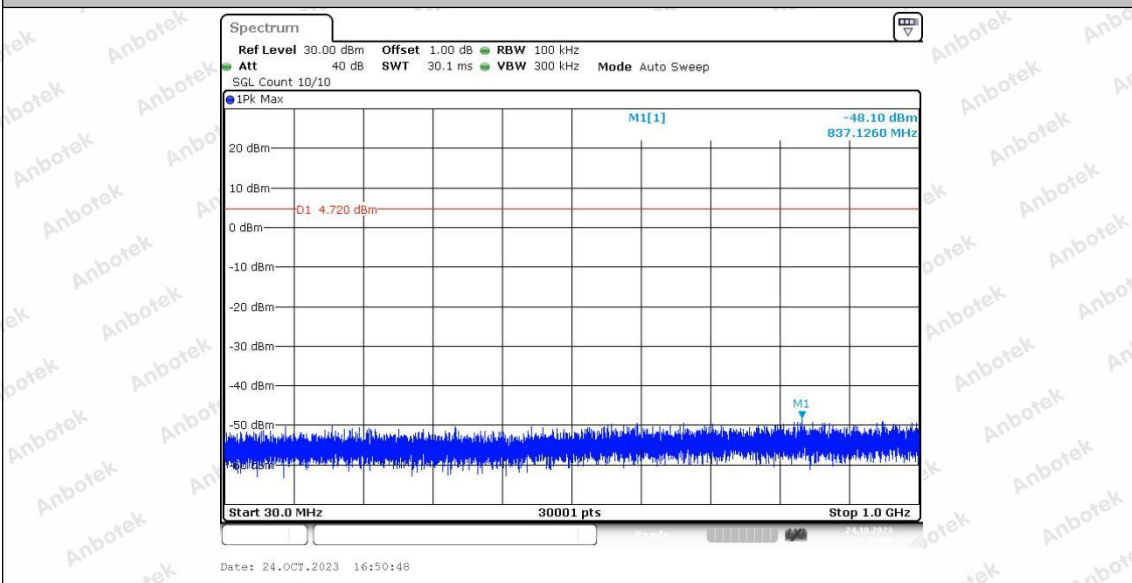




2.4G_Ant1_2441.4_0~Reference



2.4G_Ant1_2441.4_30~1000

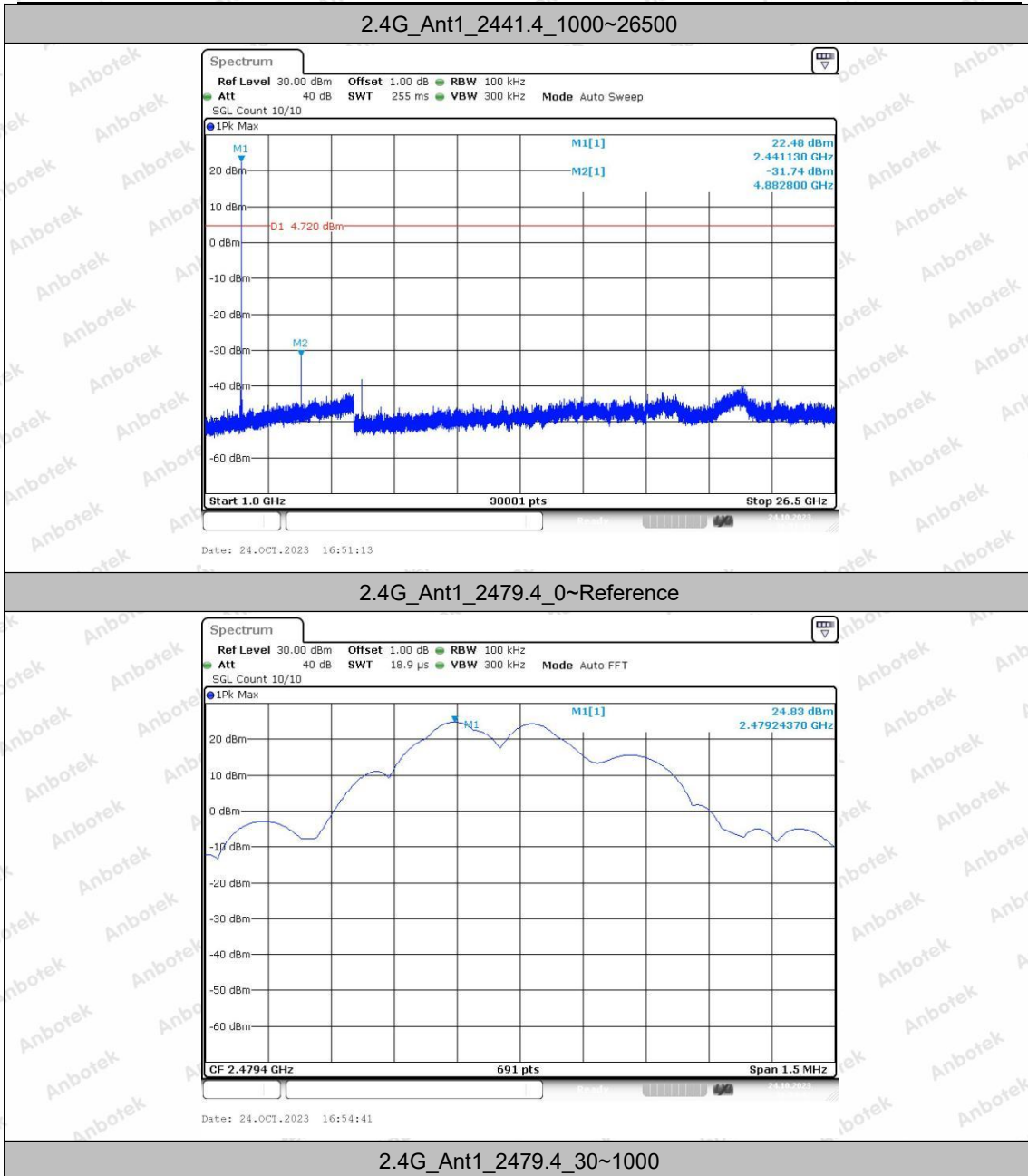


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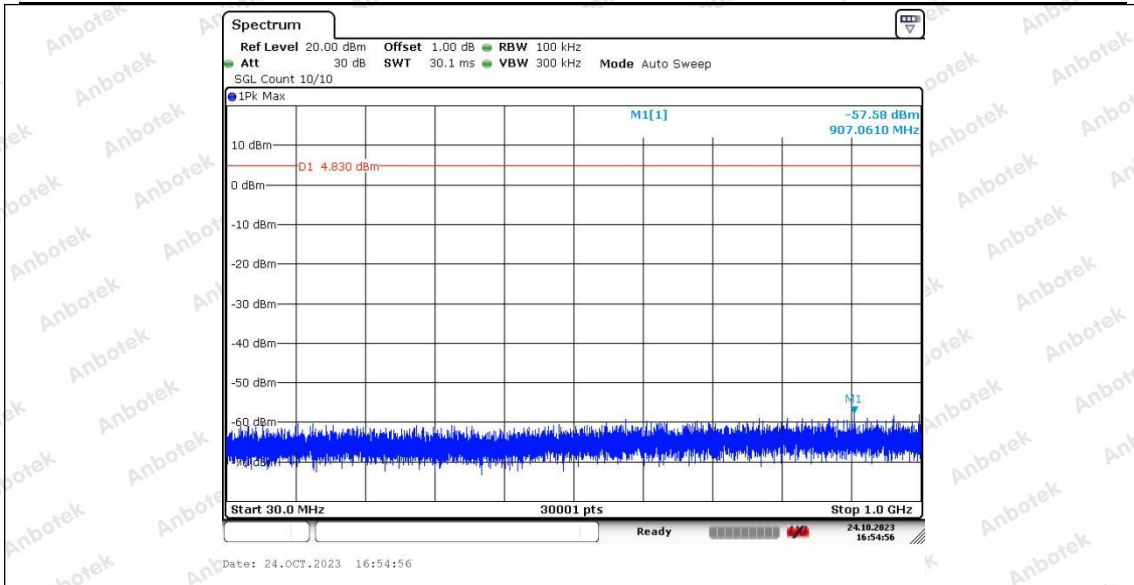


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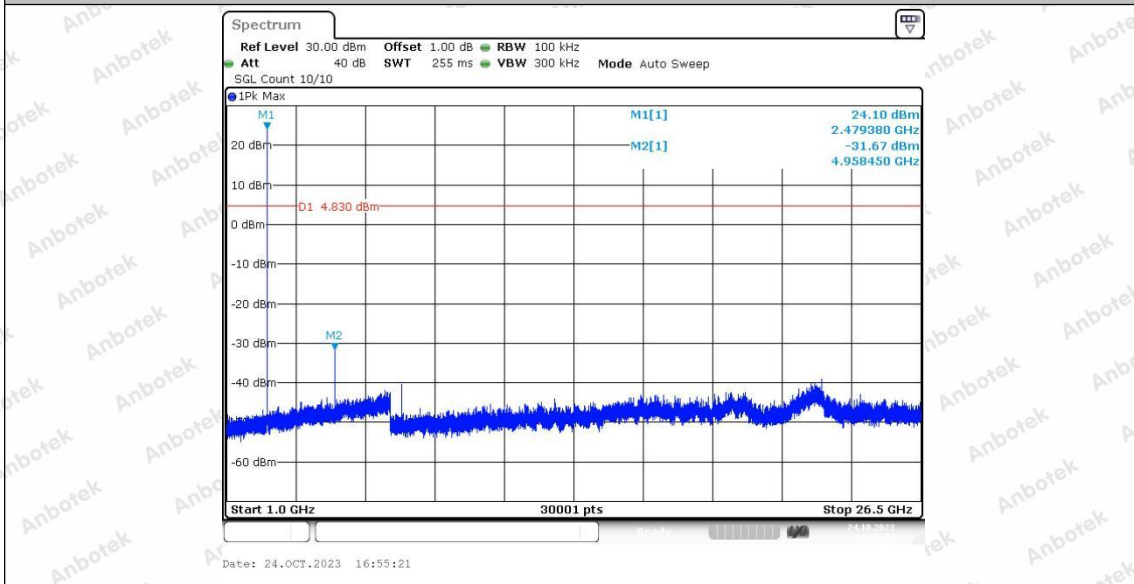
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2.4G_Ant1_2479.4_1000~26500



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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	2402.4	0.44	1.00	44.00	3.57
		2441.4	0.44	1.00	44.00	3.57
		2479.4	0.44	1.00	44.00	3.57

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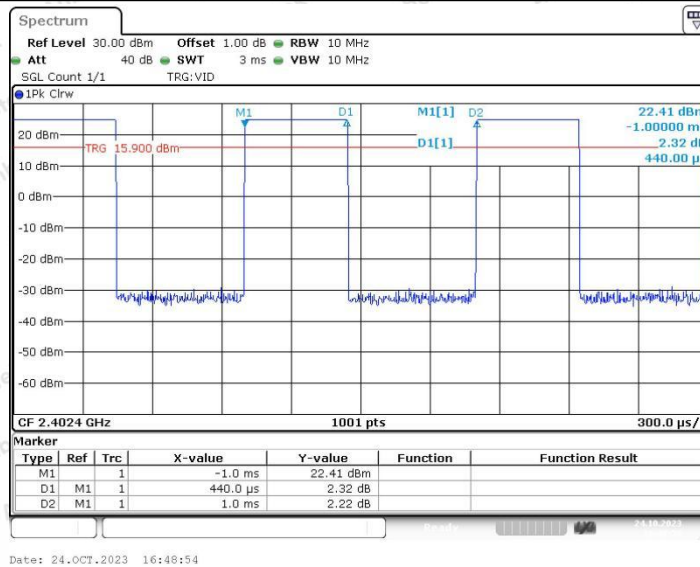


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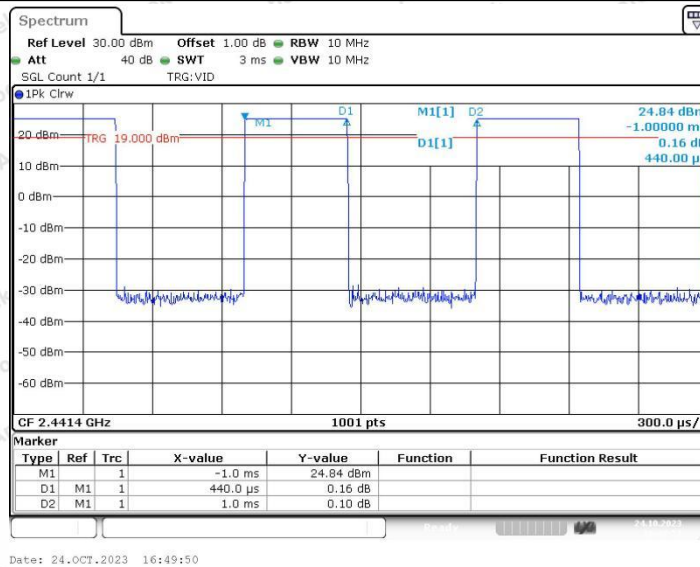


Test Graphs

2.4G_Ant1_2402.4

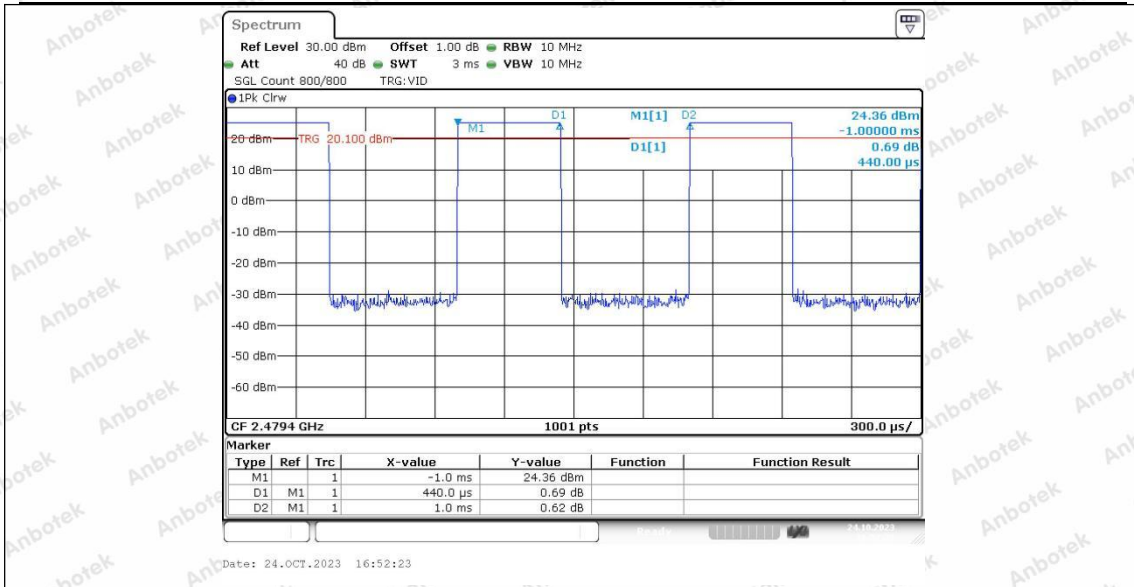


2.4G_Ant1_2441.4



2.4G_Ant1_2479.4





---End---

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