

Appendix Test Data

Report No.:	18220WC30215601	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:	25.5°C	Relative Humidity:	48.7%
Pressure:	101kPa		

Appendix A: 20dB Emission Bandwidth

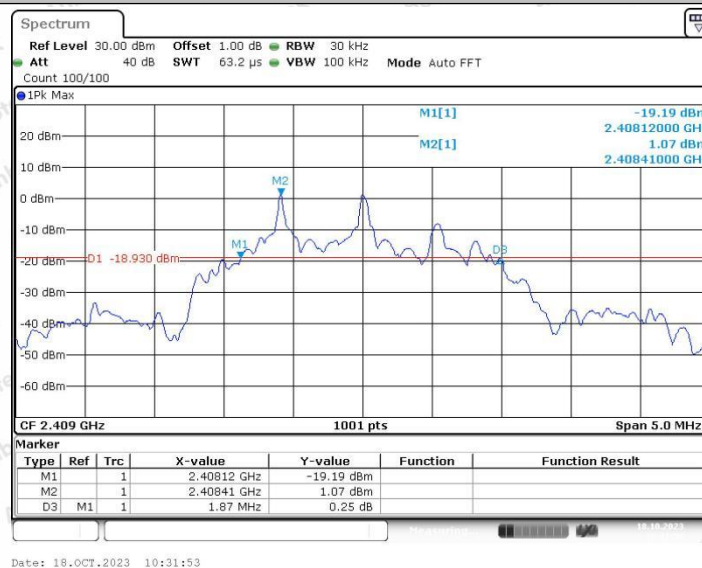
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2409	1.87	2408.12	2409.99	---	---
		2441	2.01	2439.99	2442.00	---	---
		2477	1.94	2475.99	2477.93	---	---

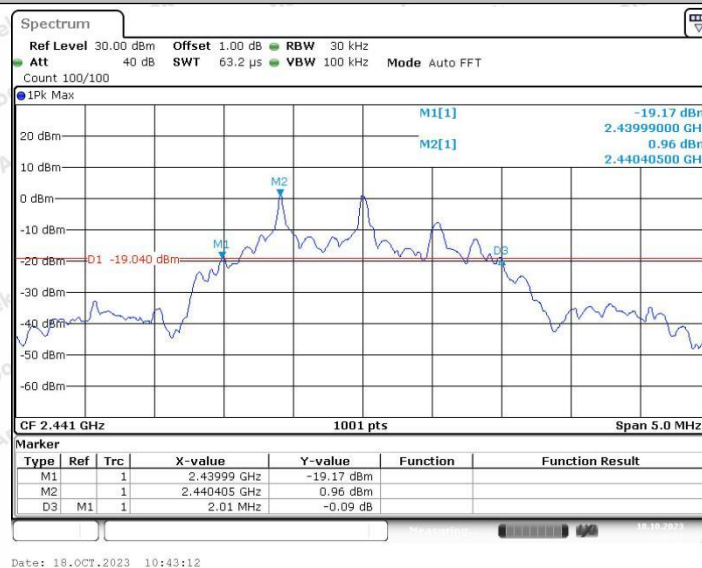


Test Graphs

2.4G_Ant1_2409



2.4G_Ant1_2441



2.4G_Ant1_2477

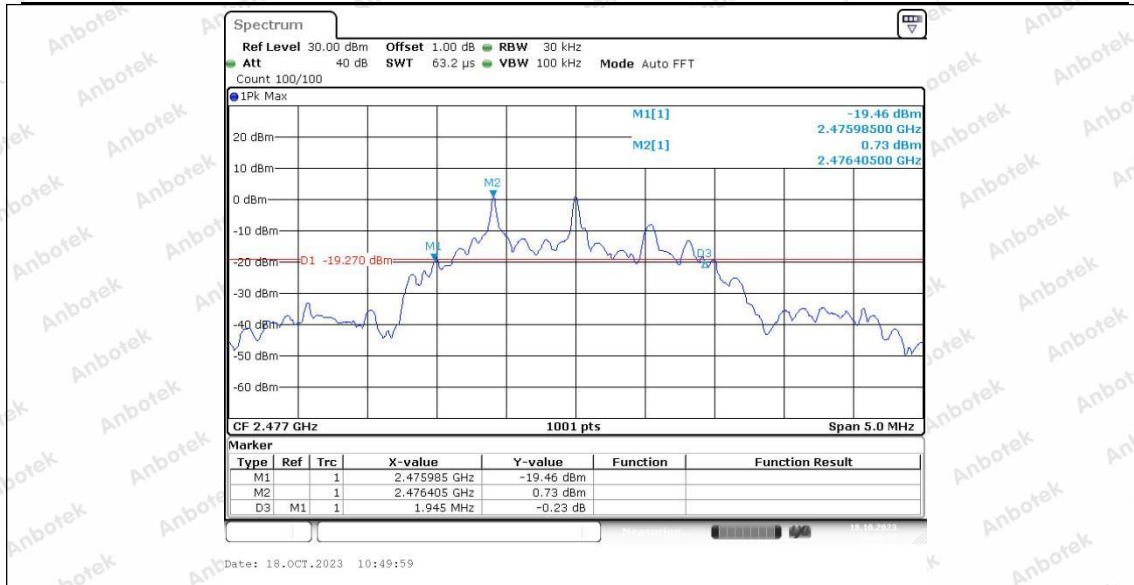
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Appendix B: Occupied Channel Bandwidth

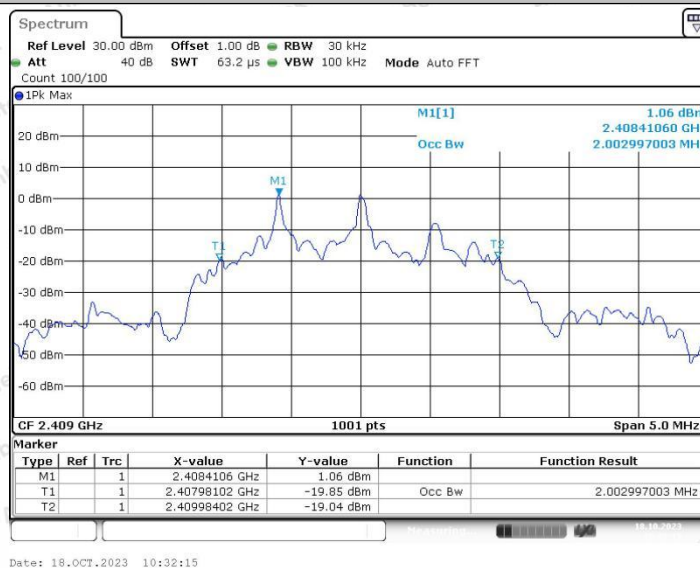
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2409	2.003	2407.9810	2409.9840	---	---
		2441	2.013	2439.9760	2441.9890	---	---
		2477	2.028	2475.9660	2477.9940	---	---

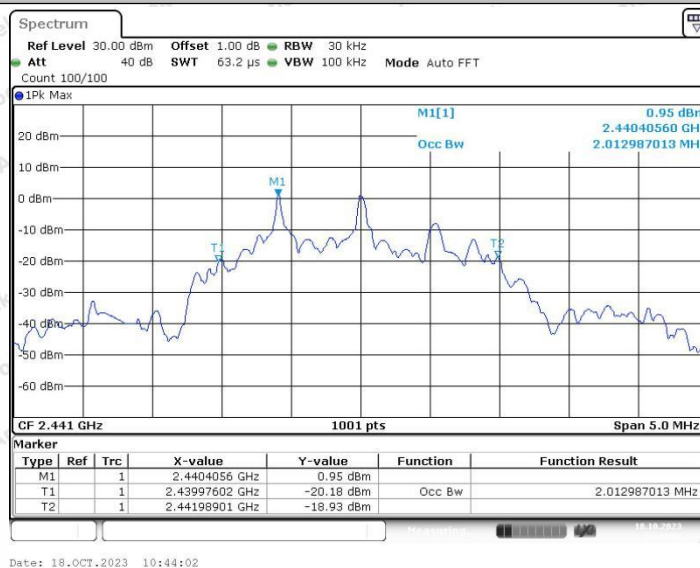


Test Graphs

2.4G_Ant1_2409



2.4G_Ant1_2441



2.4G_Ant1_2477

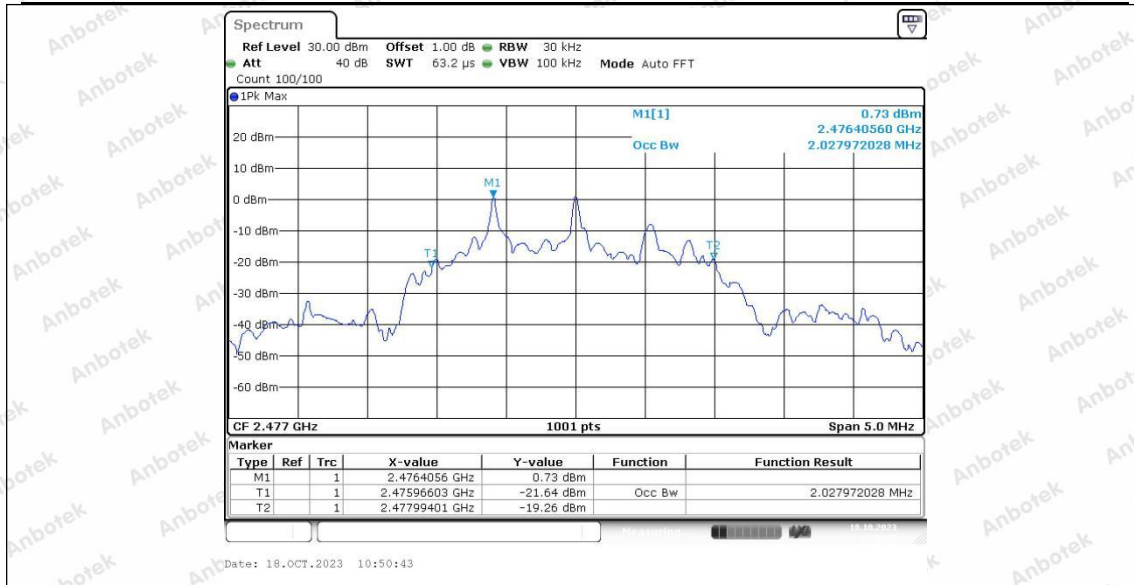
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Appendix C: Maximum conducted output power

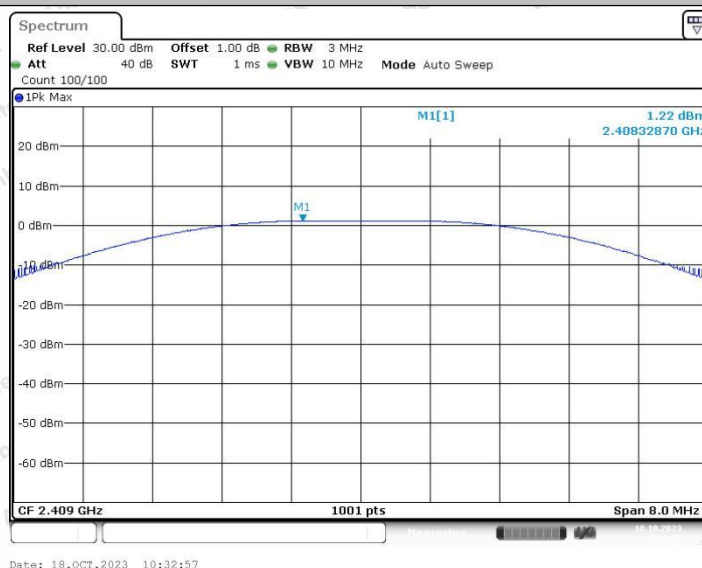
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2409	1.22	≤20.97	PASS
		2441	1.12	≤20.97	PASS
		2477	0.91	≤20.97	PASS

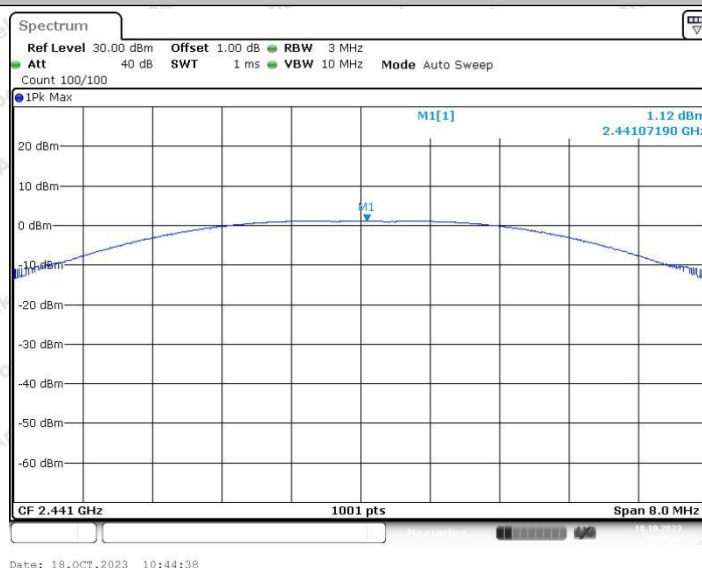


Test Graphs

2.4G_Ant1_2409



2.4G_Ant1_2441



2.4G_Ant1_2477

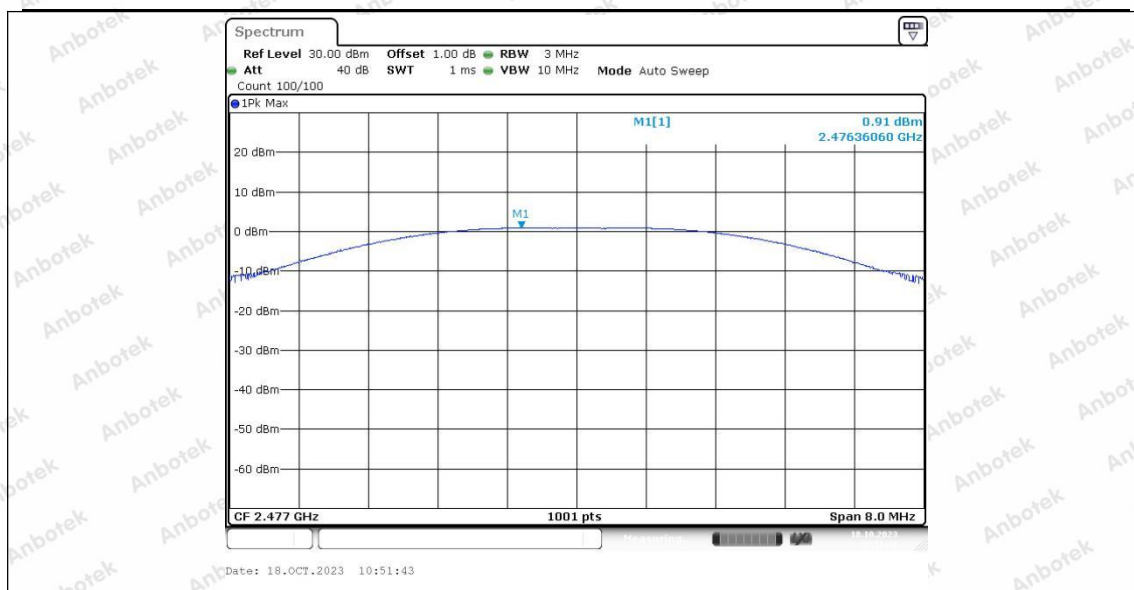
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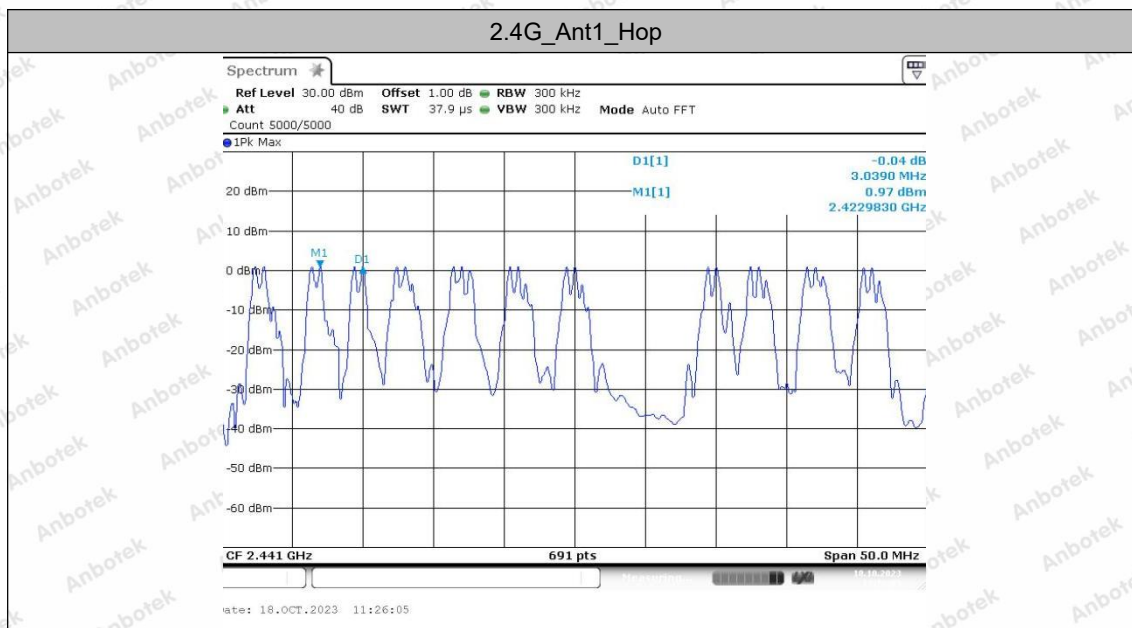
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	3.039	≥2.010	PASS



Test Graphs



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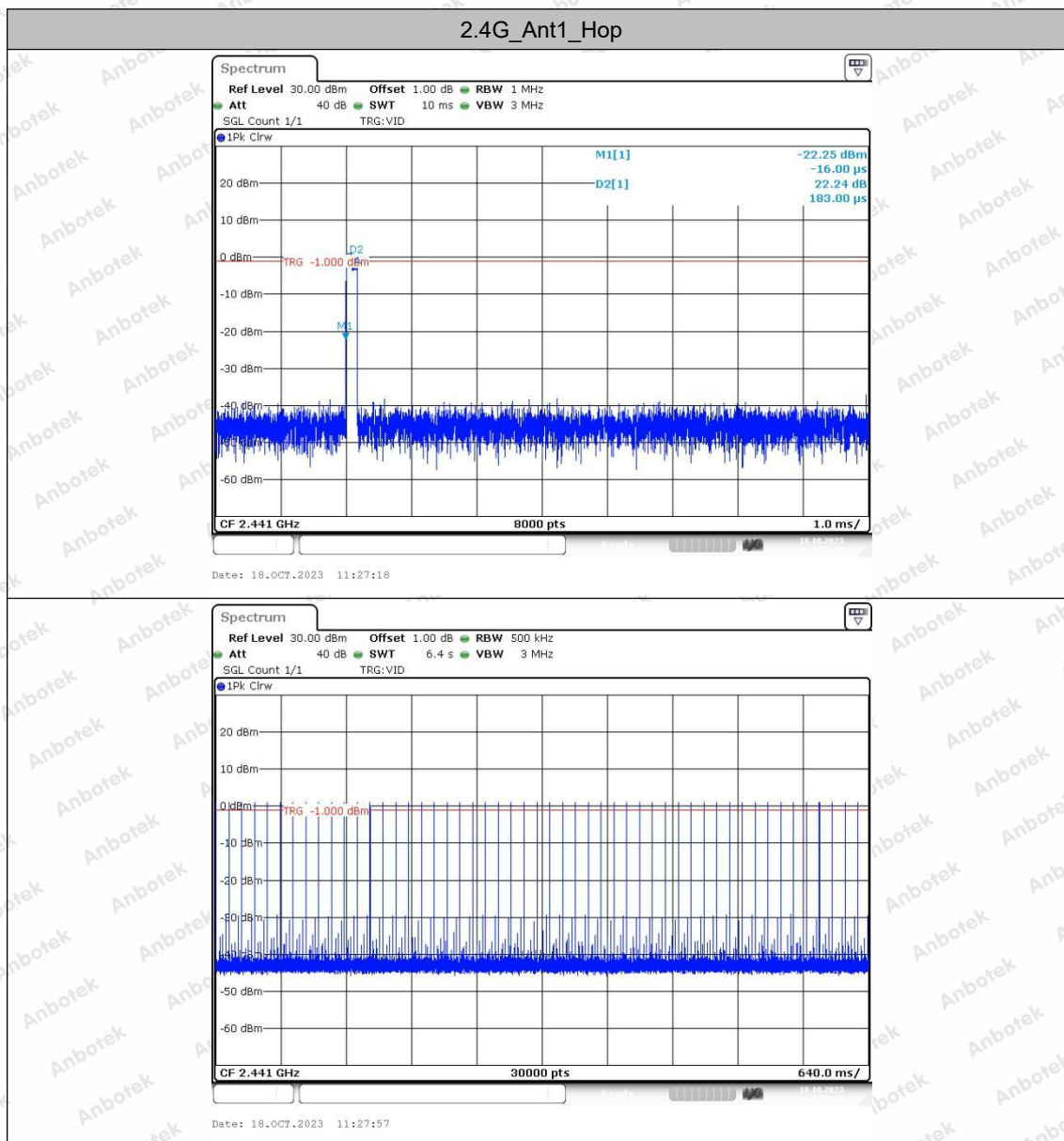
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.183	51	0.009	≤0.4	PASS



Test Graphs



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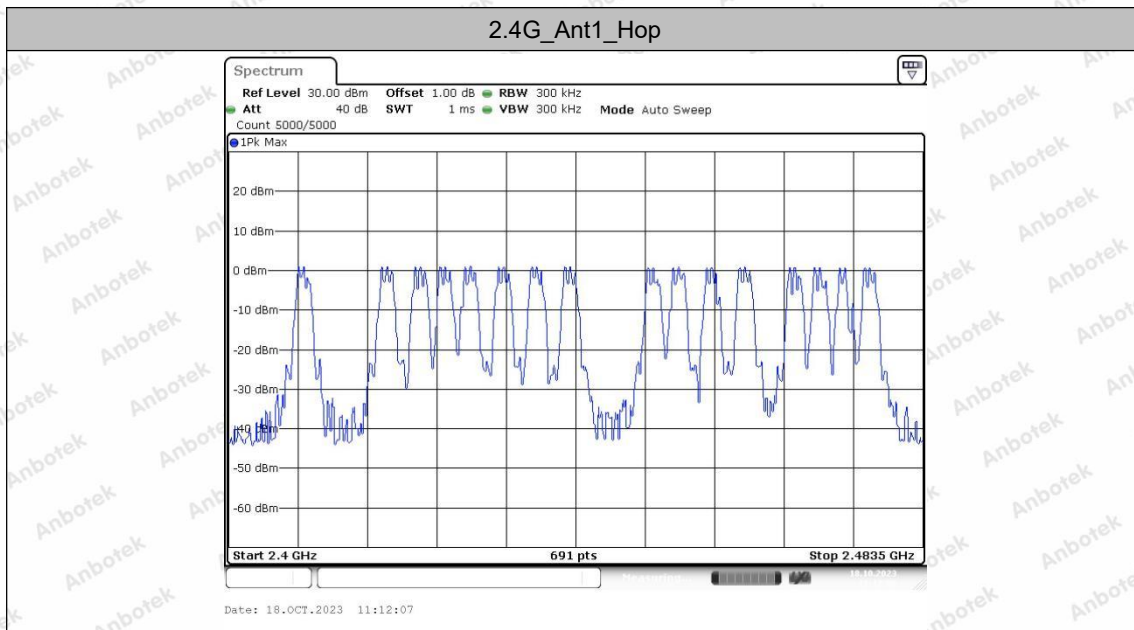
Appendix F: Number of hopping channels

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

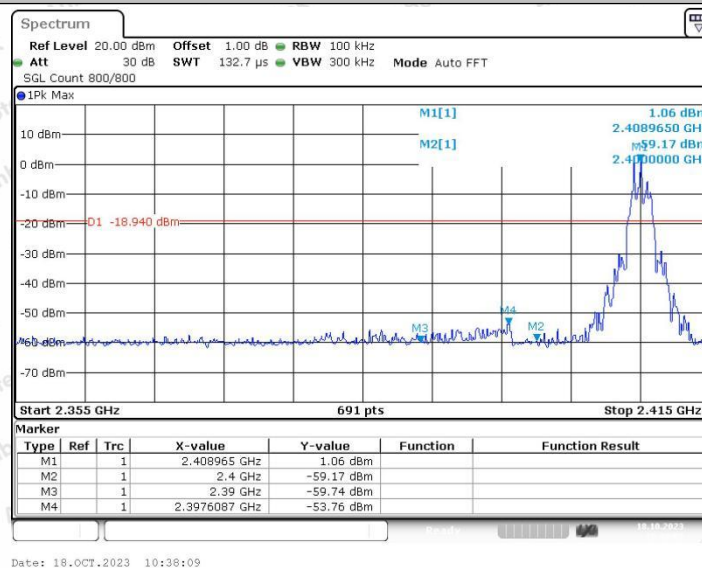
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2409	1.06	-53.76	≤-18.94	PASS
		High	2477	0.71	-47.23	≤-19.29	PASS
		Low	Hop_2409	1.07	-54.62	≤-18.93	PASS
		High	Hop_2477	0.64	-55.67	≤-19.36	PASS

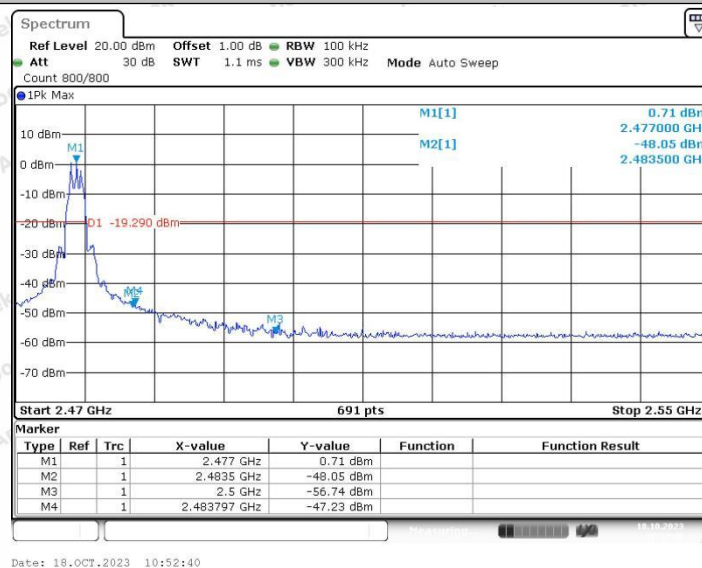


Test Graphs

2.4G_Ant1_Low_2409



2.4G_Ant1_High_2477



2.4G_Ant1_Low_Hop_2409

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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	2409	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-68.22	≤-18.99	PASS
			1000~26500	1.01	-59.47	≤-18.99	PASS
		2441	Reference	0.90	0.90	---	PASS
			30~1000	0.90	-68.76	≤-19.1	PASS
			1000~26500	0.90	-59.52	≤-19.1	PASS
		2477	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-68.99	≤-19.32	PASS
			1000~26500	0.68	-59.54	≤-19.32	PASS



Test Graphs



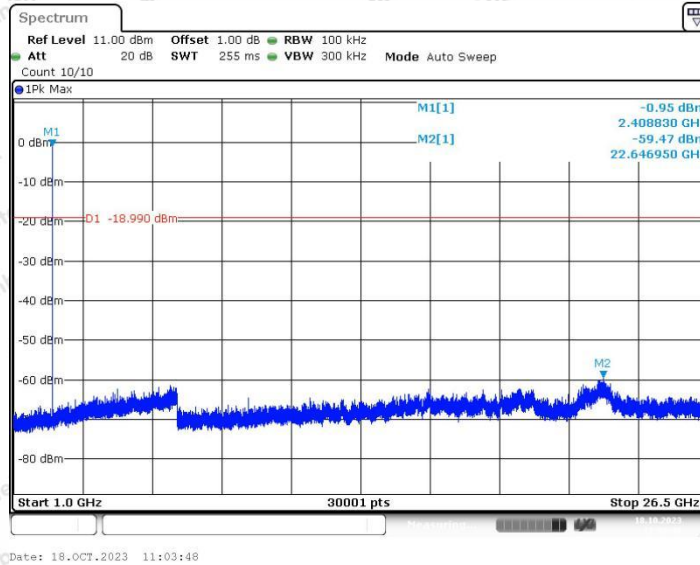
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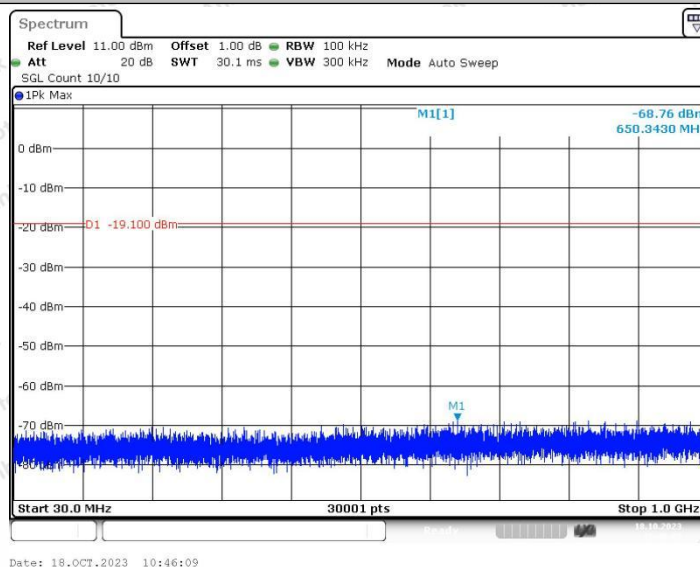




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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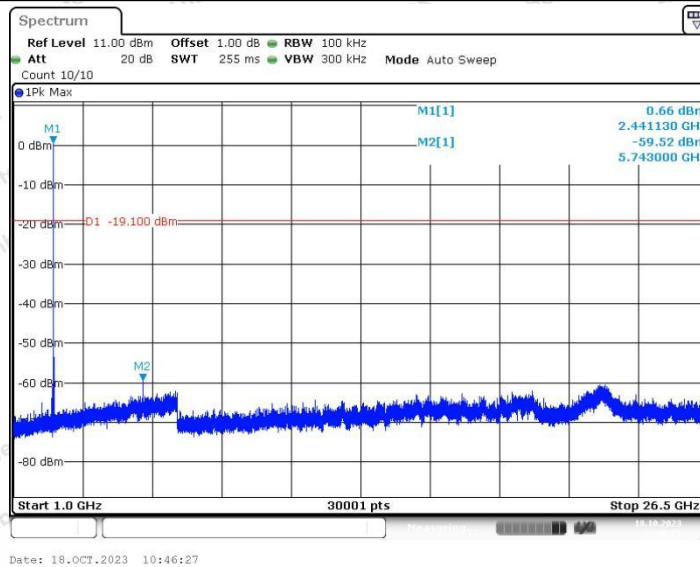
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2477_0~Reference



2.4G_Ant1_2477_30~1000

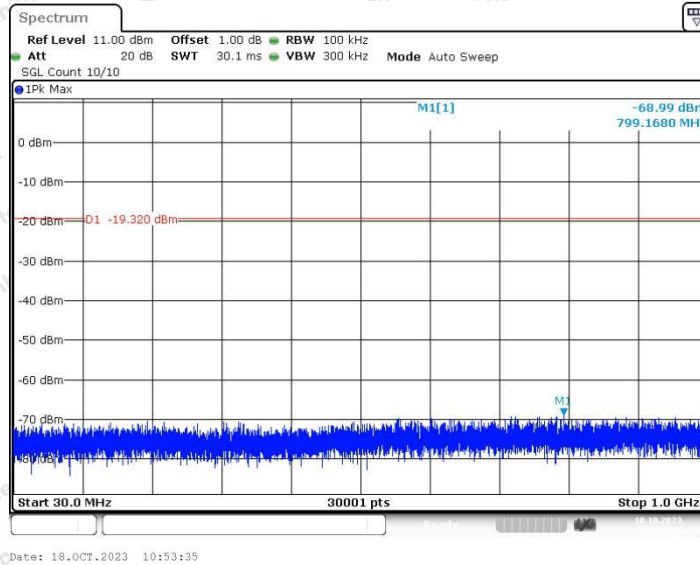
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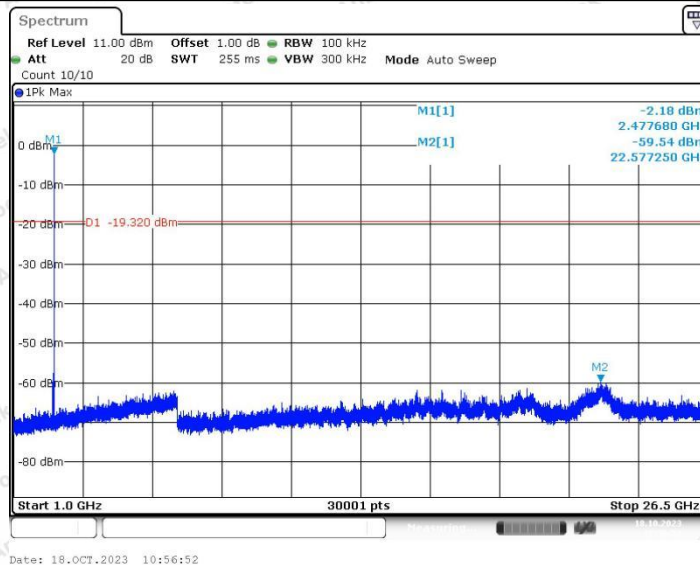


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2.4G_Ant1_2477_1000~26500



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Appendix I: Duty Cycle

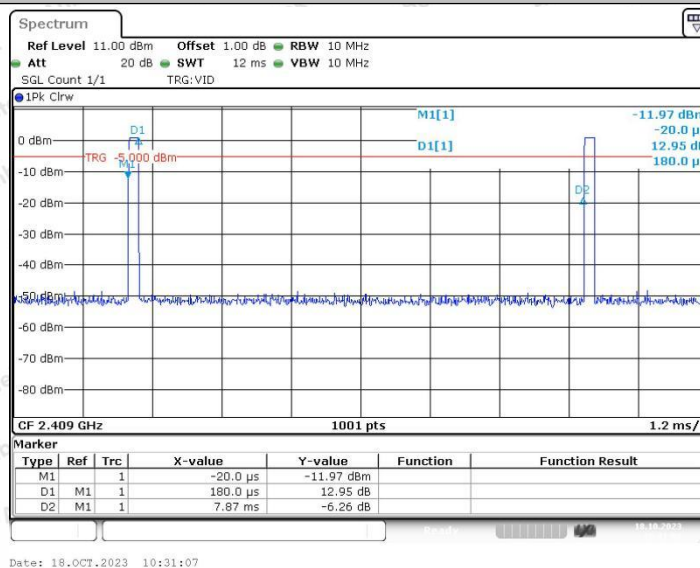
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2409	0.18	7.87	2.29	16.40
		2441	0.18	7.89	2.28	16.42
		2477	0.19	7.89	2.41	16.18

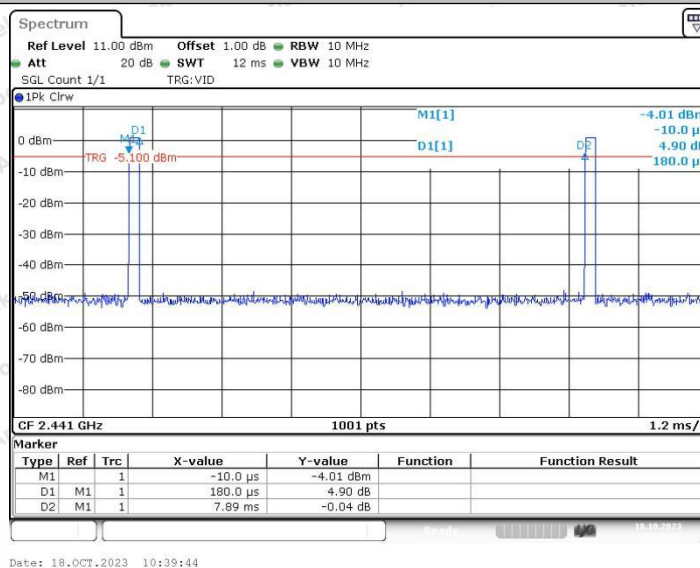


Test Graphs

2.4G_Ant1_2409



2.4G_Ant1_2441



2.4G_Ant1_2477

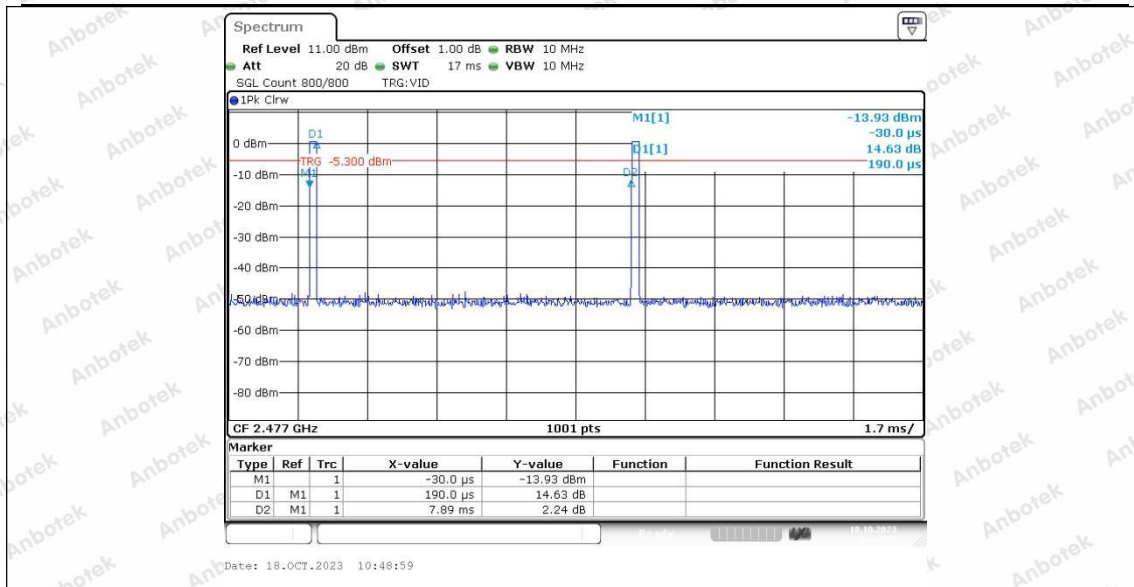
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