

Appendix Test Data

Report No.:	18220WC40014601	Test Sample No.:	1-2-2
Start Test Date:	2024.1.30	Finish Test Date:	2024.4.10
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3°C	Relative Humidity:	48%
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	0.447	2401.817	2402.264	---	---
		2440	0.450	2439.820	2440.270	---	---
		2480	0.540	2479.802	2480.342	---	---

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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	0.59074	2401.7383	2402.3290	---	---
		2440	0.62231	2439.7181	2440.3405	---	---
		2480	0.68021	2479.6784	2480.3586	---	---

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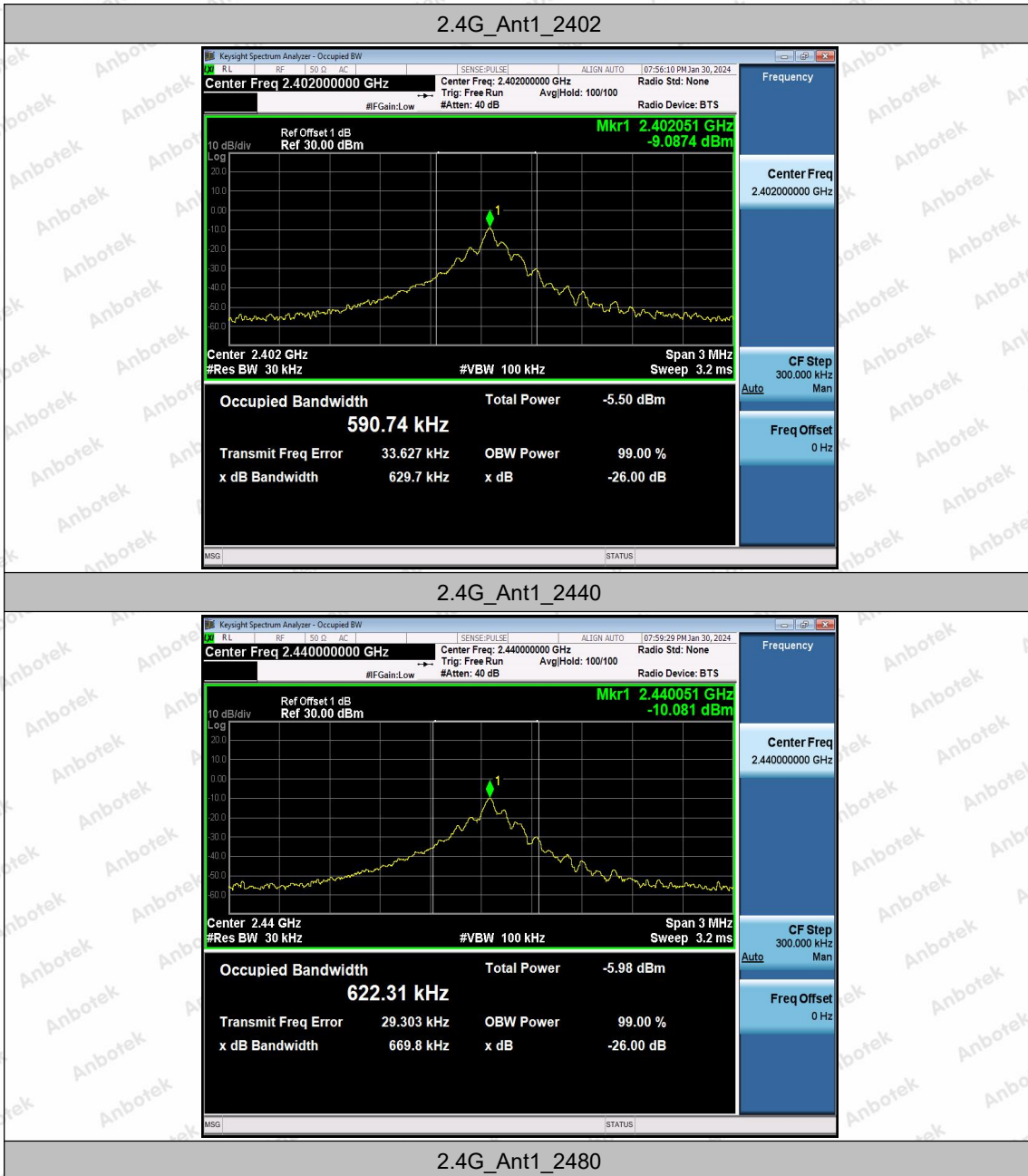
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Test Graphs



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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	-8.01	≤20.97	PASS
		2440	-8.71	≤20.97	PASS
		2480	-8.46	≤20.97	PASS

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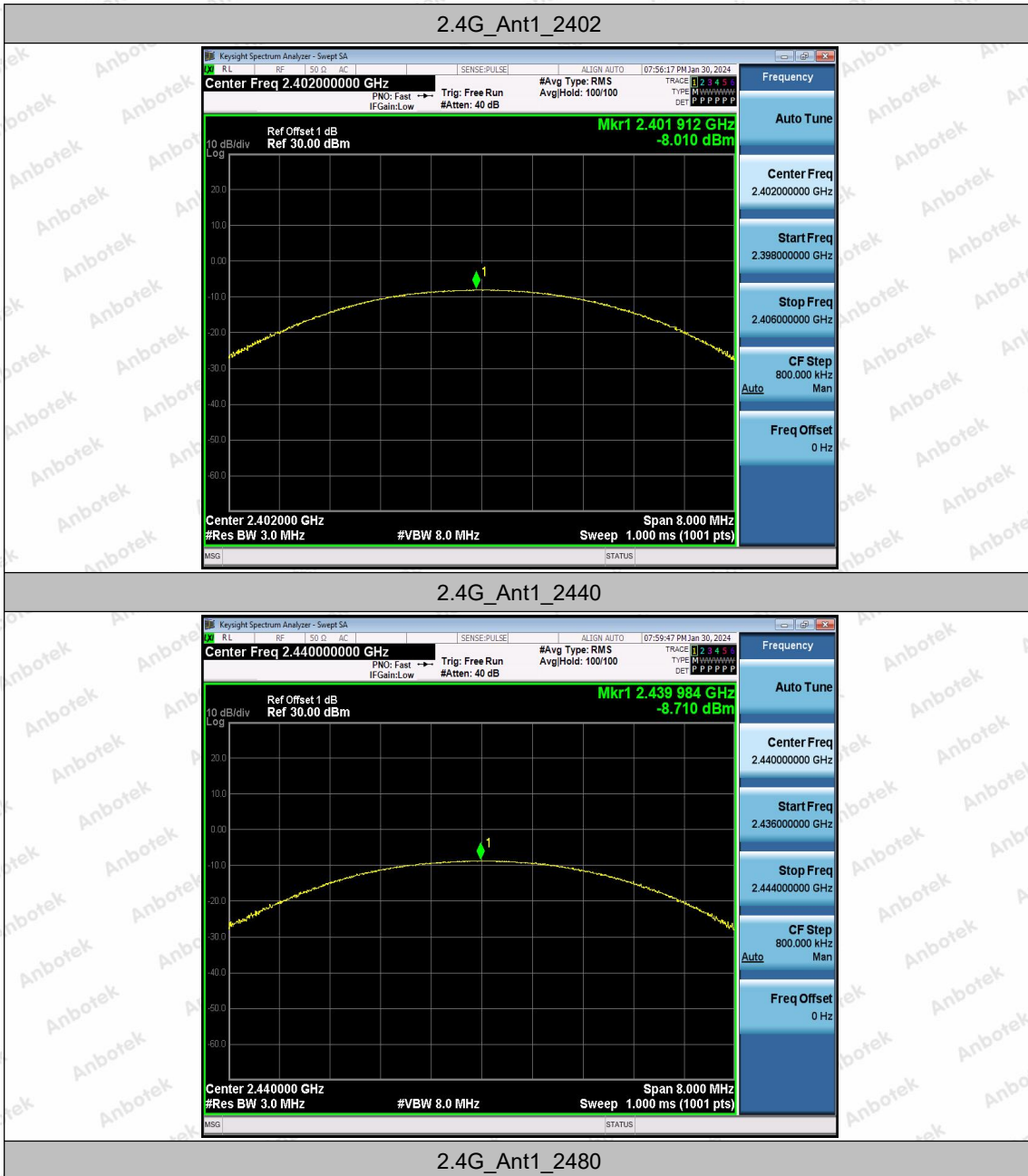
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Test Graphs



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.00	≥0.540	PASS



Test Graphs



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Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.10	99	0.01	≤0.4	PASS

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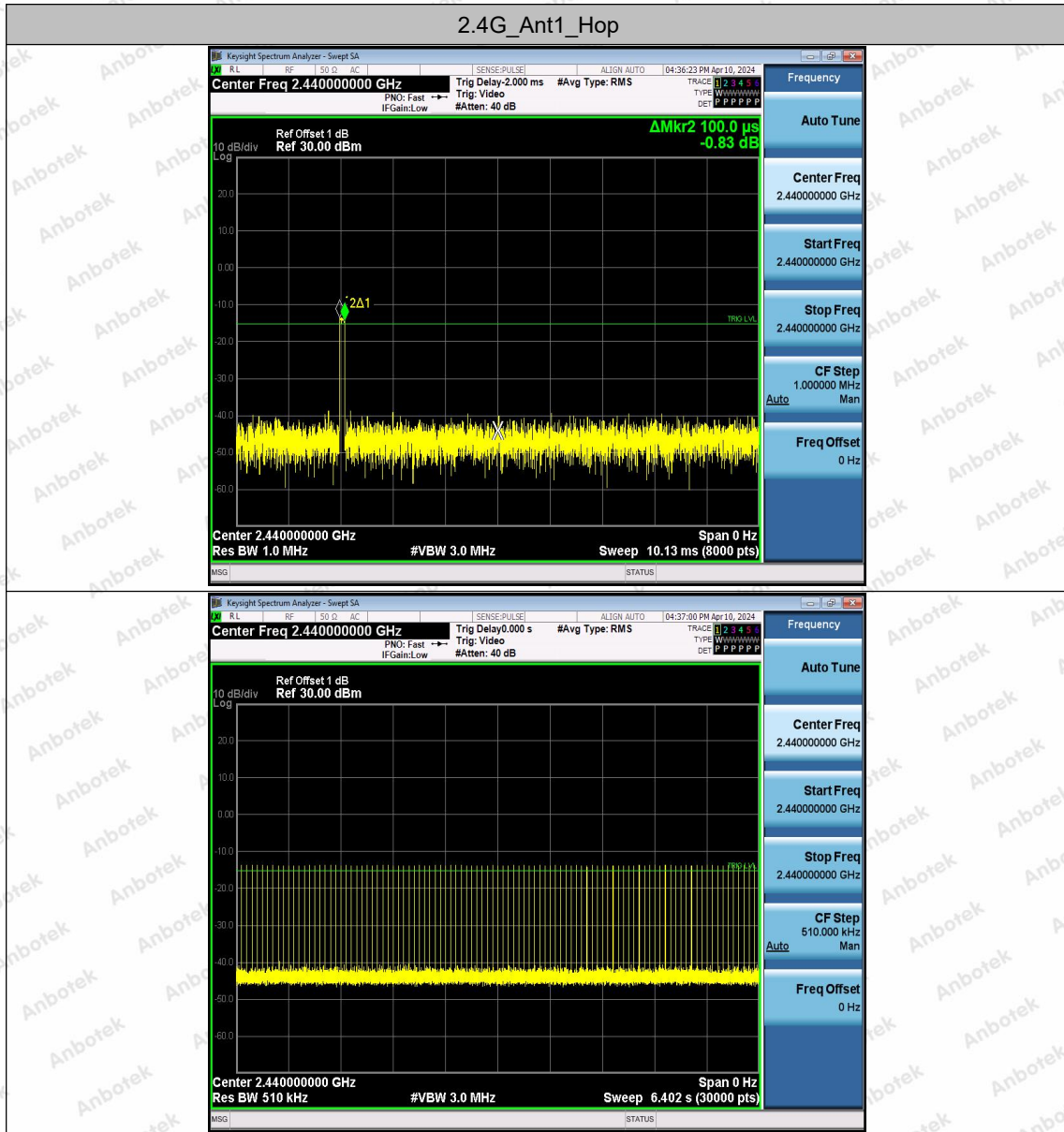
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Test Graphs



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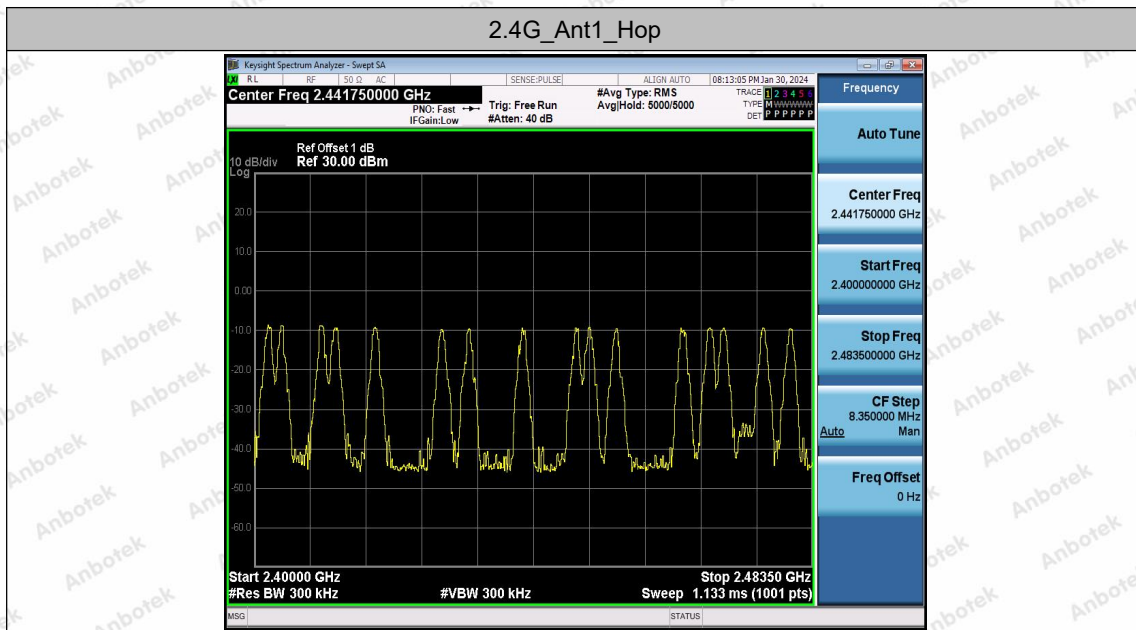
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	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	-8.10	-49.49	≤-28.1	PASS
		High	2480	-8.69	-54.57	≤-28.69	PASS
		Low	Hop_2402	-10.35	-51.7	≤-30.35	PASS
		High	Hop_2480	-9.38	-55.04	≤-29.38	PASS

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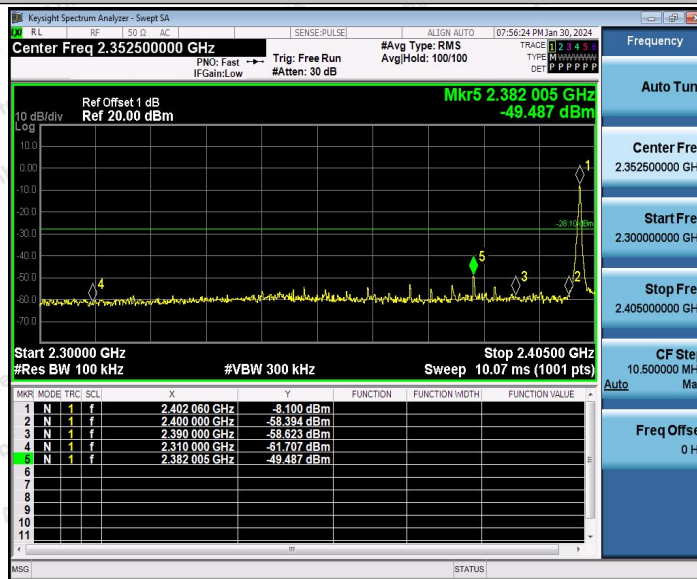


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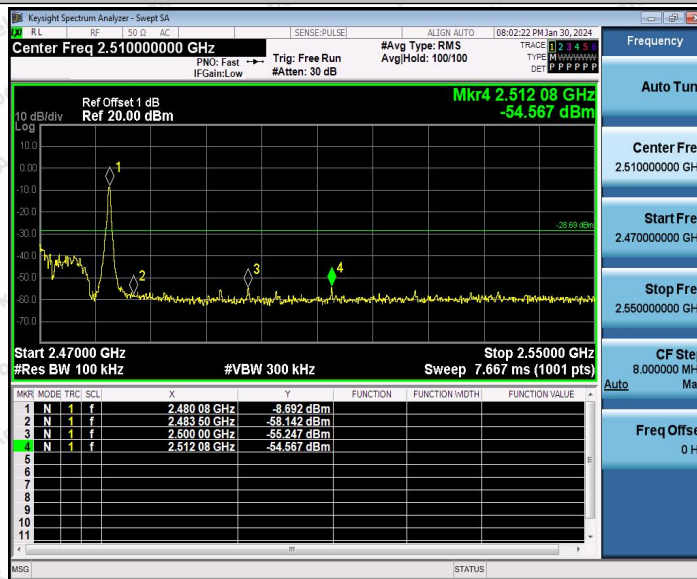


Test Graphs

2.4G_Ant1_Low_2402



2.4G_Ant1_High_2480



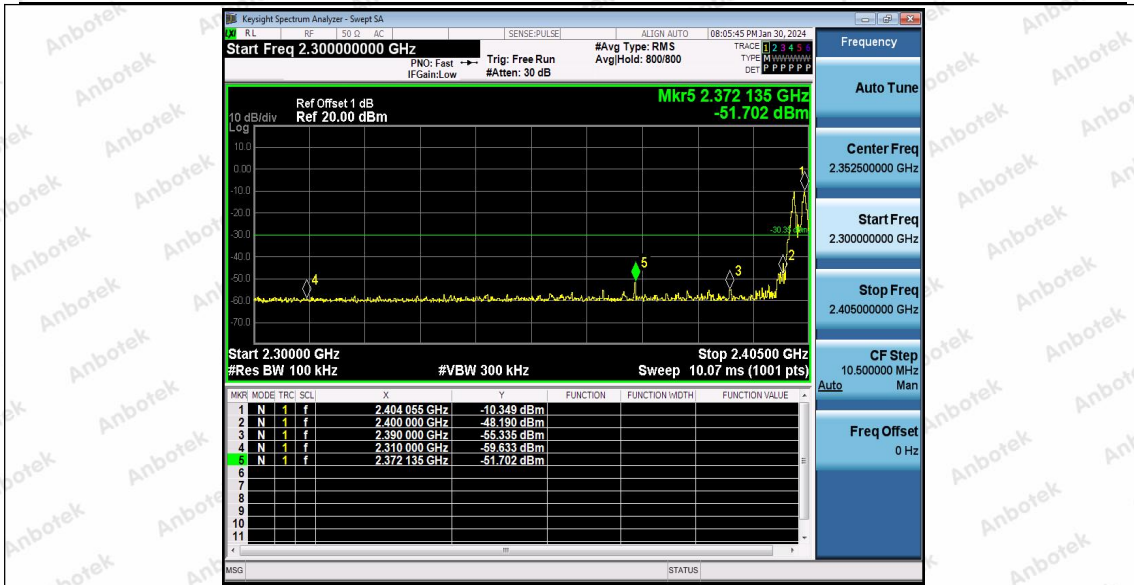
2.4G_Ant1_Low_Hop_2402

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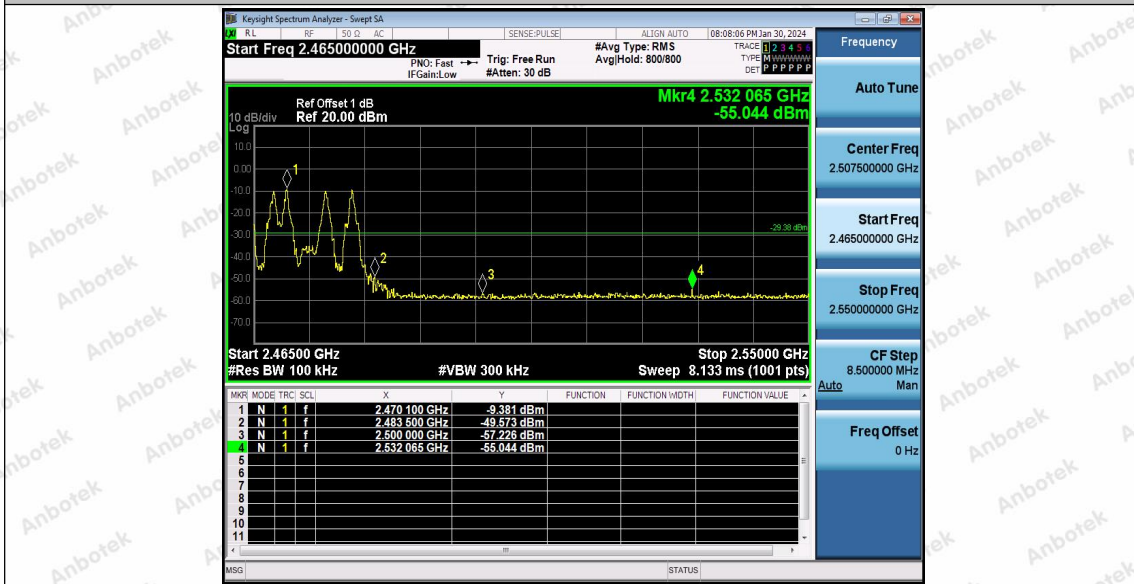
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2.4G_Ant1_High_Hop_2480



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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	-8.57	-8.57	---	PASS
			30~1000	-8.57	-39.28	≤-28.57	PASS
			1000~26500	-8.57	-48.23	≤-28.57	PASS
		2440	Reference	-9.31	-9.31	---	PASS
			30~1000	-9.31	-38.11	≤-29.31	PASS
			1000~26500	-9.31	-46.75	≤-29.31	PASS
		2480	Reference	-9.13	-9.13	---	PASS
			30~1000	-9.13	-48.47	≤-29.13	PASS
			1000~26500	-9.13	-43.74	≤-29.13	PASS

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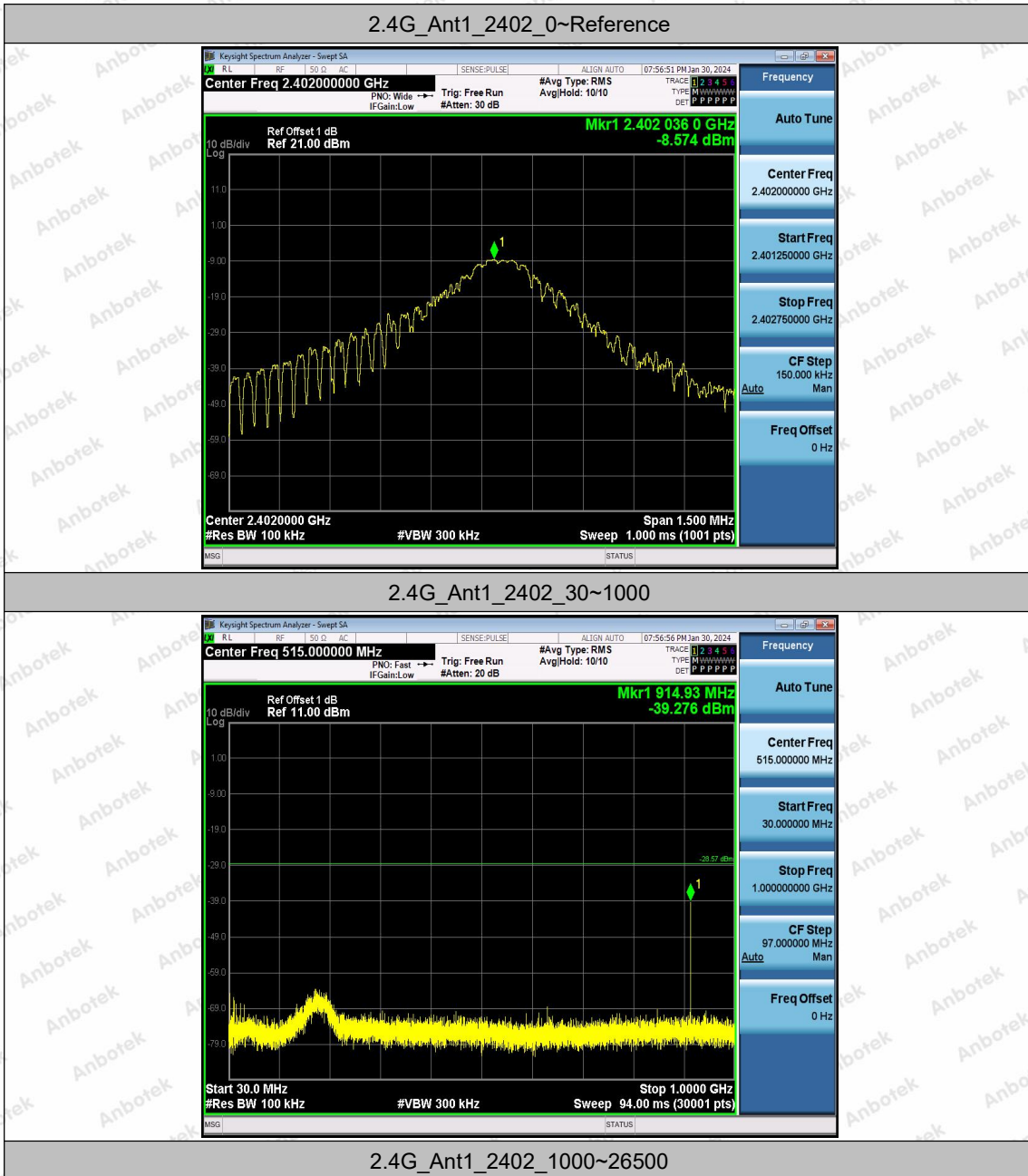
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Test Graphs

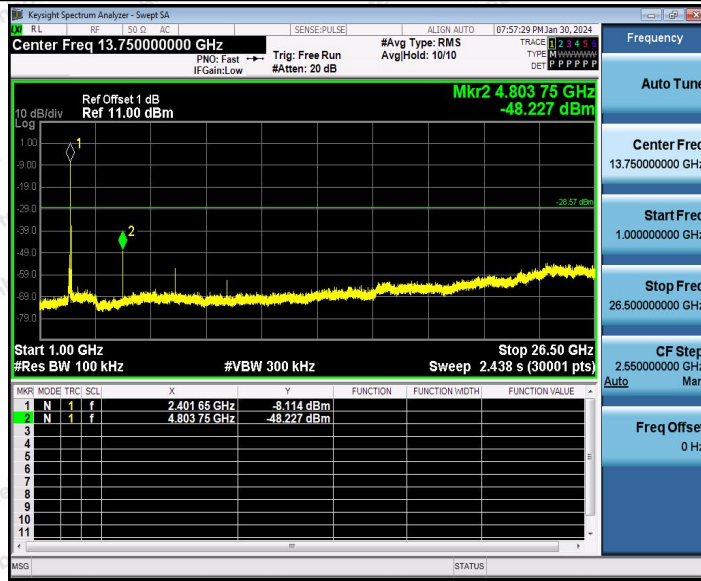


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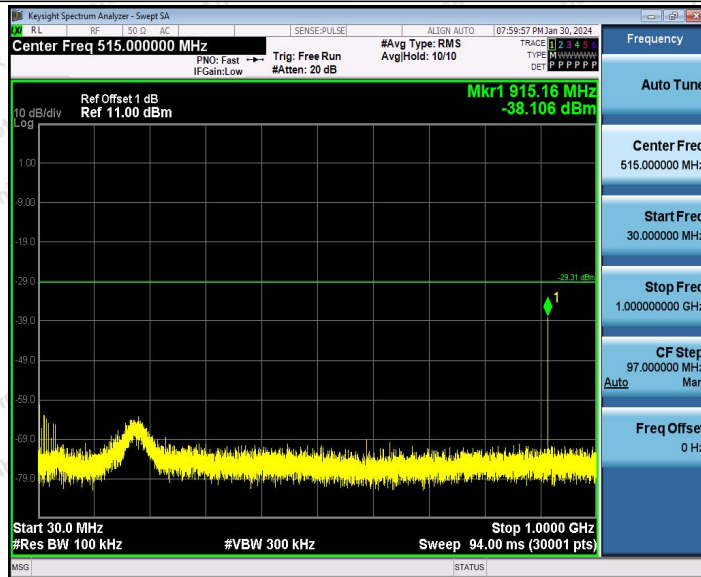




2.4G_Ant1_2440_0~Reference



2.4G_Ant1_2440_30~1000



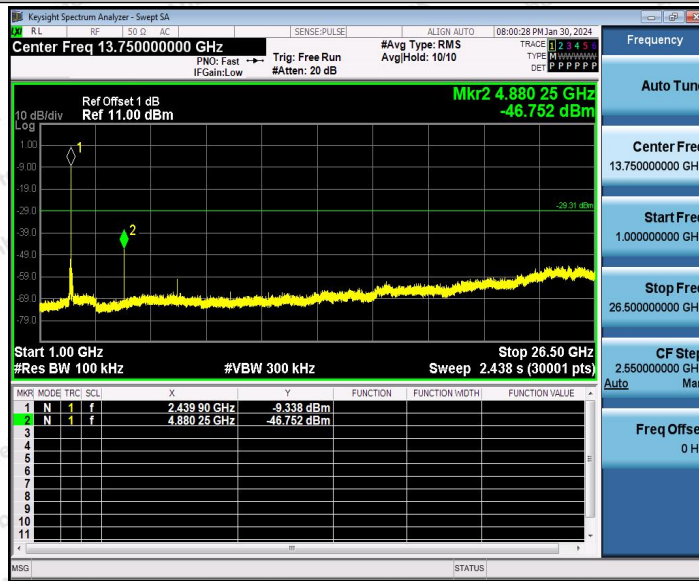
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2.4G_Ant1_2440_1000~26500



2.4G_Ant1_2480_0~Reference



2.4G_Ant1_2480_30~1000

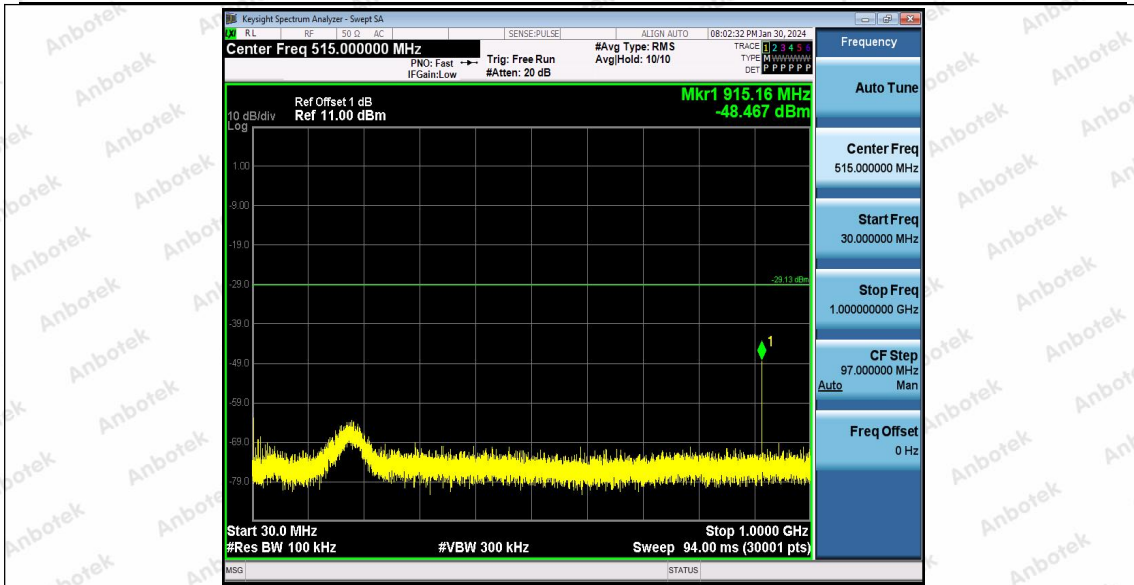
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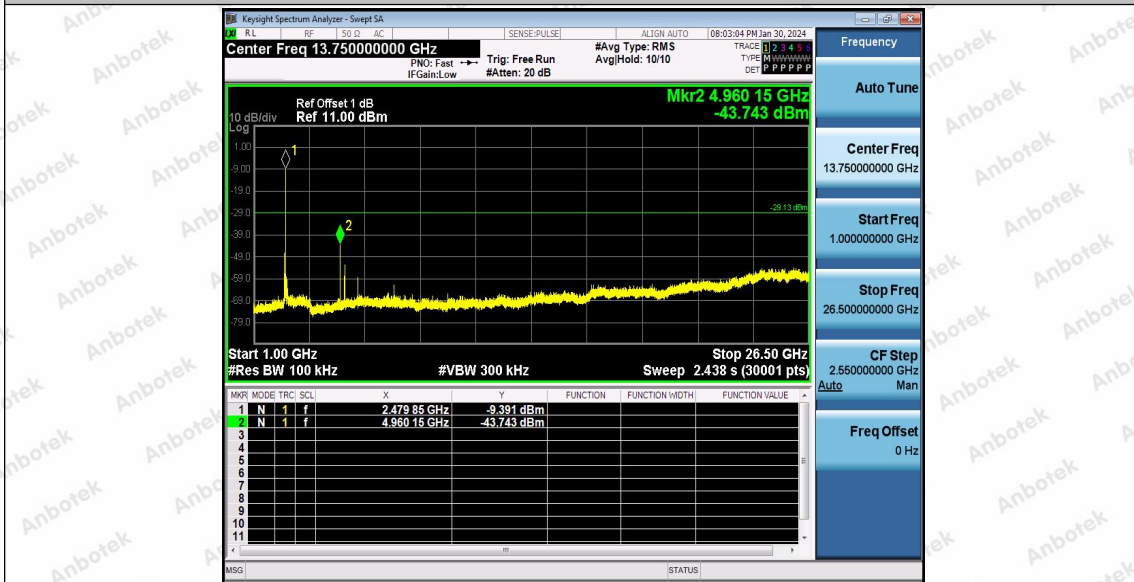


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2.4G_Ant1_2480_1000~26500



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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	50.00	50.00	100	0.00
		2440	50.00	50.00	100	0.00
		2480	27.00	27.00	100	0.00

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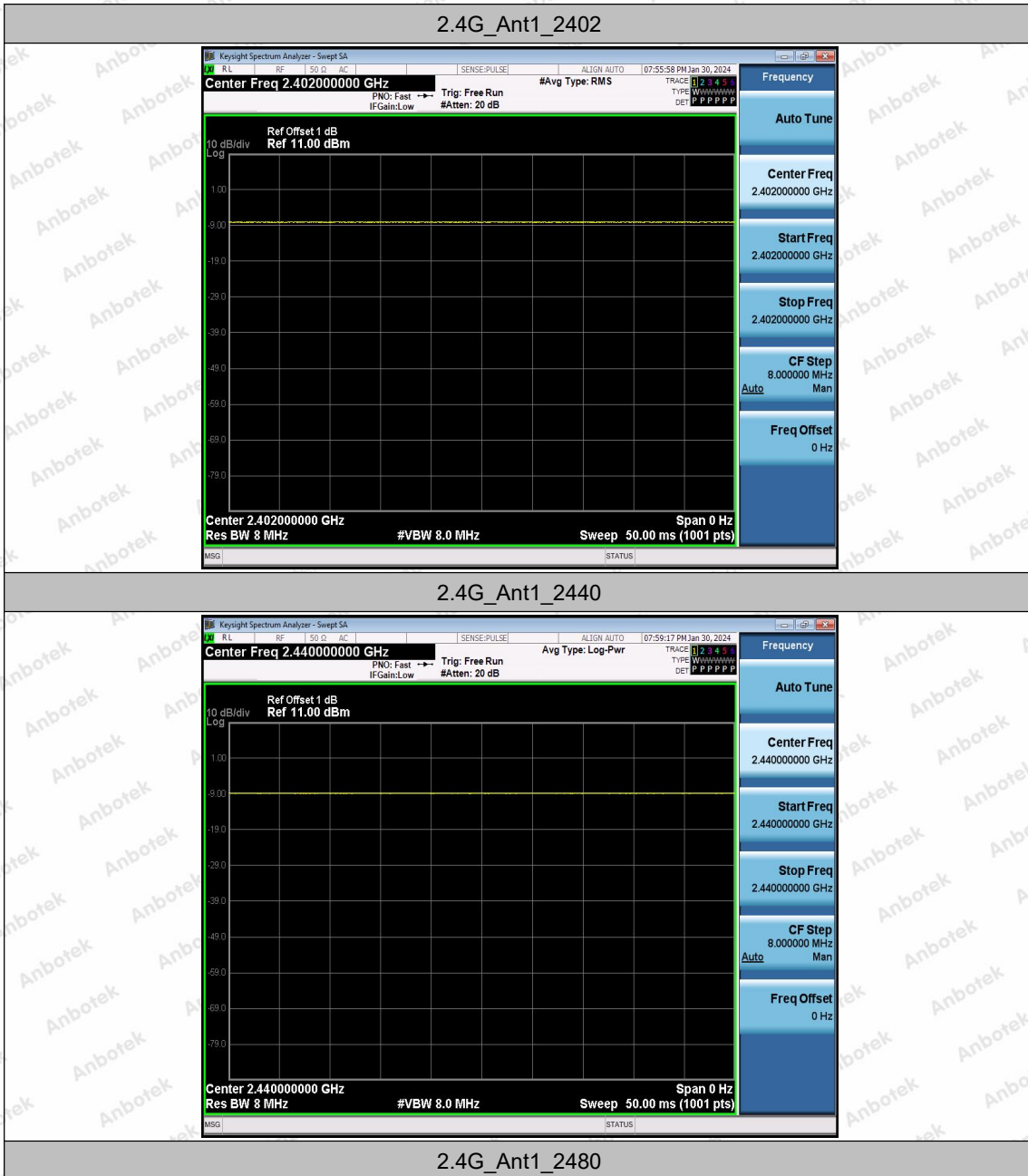
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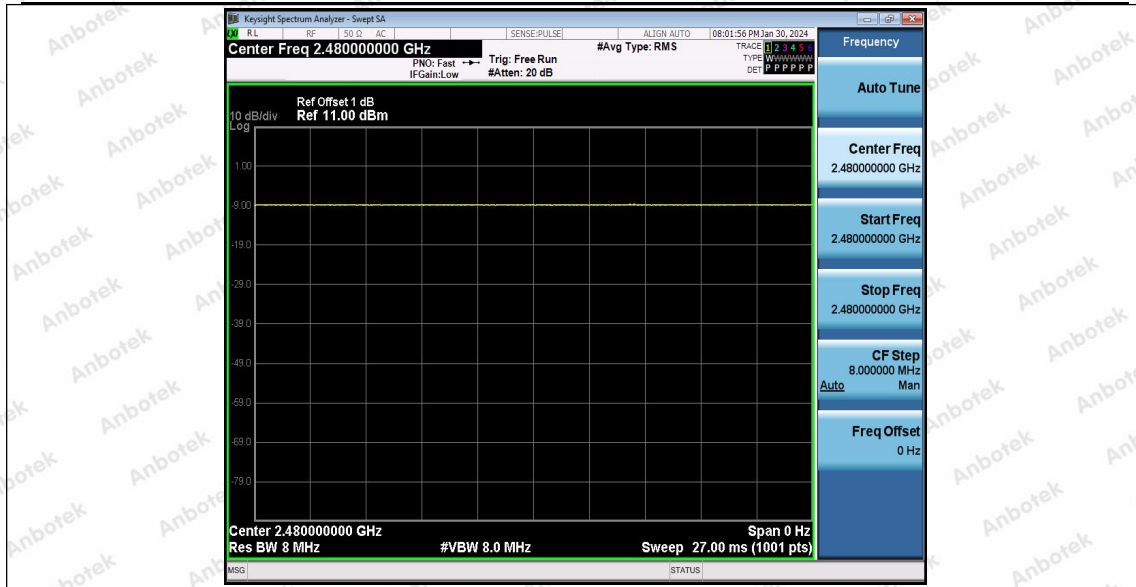


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