

Appendix Test Data

Report No.:	18220WC30015701	Test Sample No.:	1-2-2
Start Test Date:	2023.2.7	Finish Test Date:	2023.2.8
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3C°	Relative Humidity:	47 %
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	2403	2.150	2401.955	2404.105	---	---
		2441	2.150	2439.950	2442.100	---	---
		2480	2.100	2478.950	2481.050	---	---

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Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



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	2403	2.2027	2401.8835	2404.0867	---	---
		2441	2.1981	2439.8858	2442.0840	---	---
		2480	2.1654	2478.9049	2481.0703	---	---



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	2403	-0.71	≤30	PASS
		2441	-0.68	≤30	PASS
		2480	-0.62	≤30	PASS



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	≥1.433	PASS

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Test Graphs



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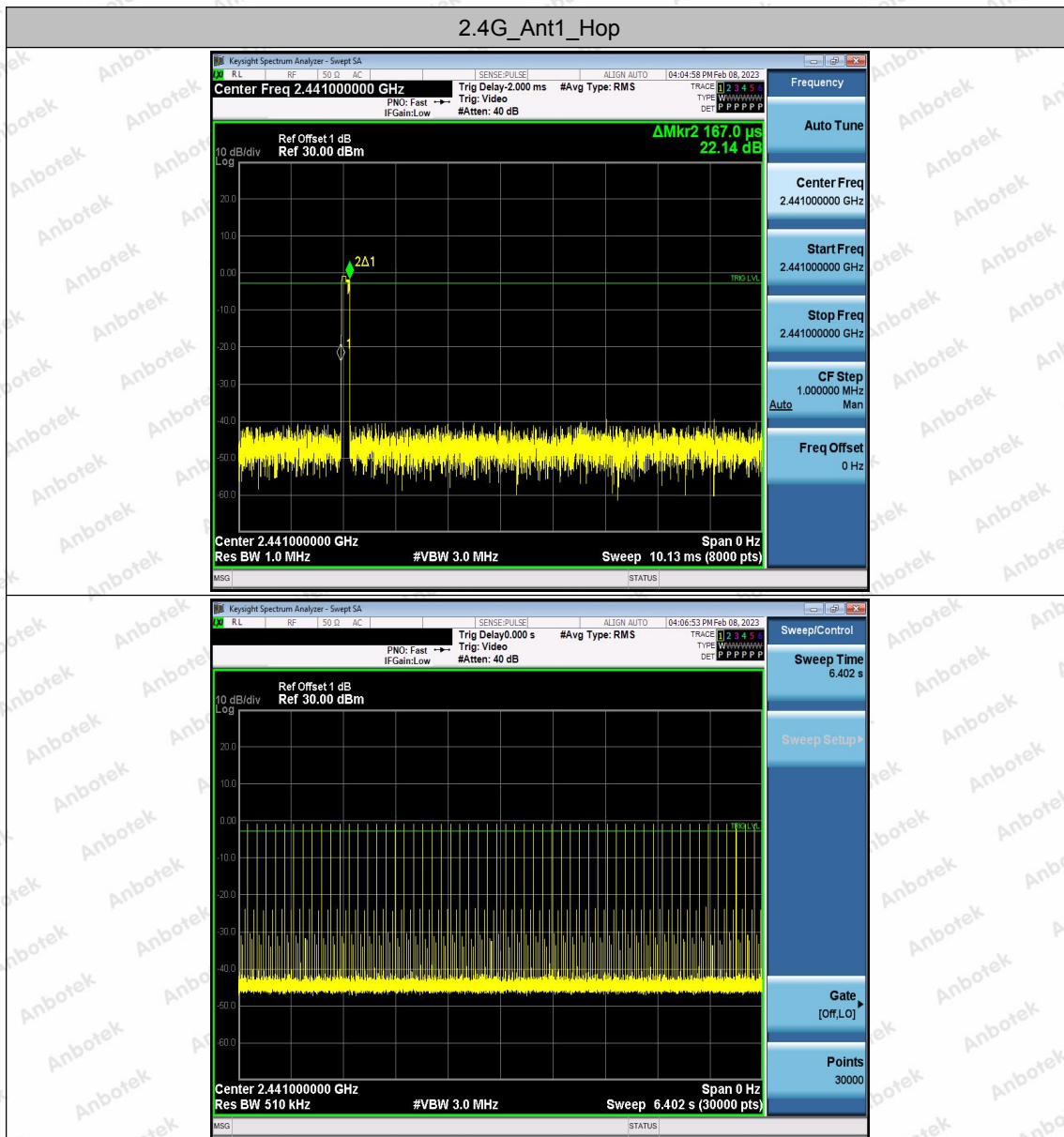
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.167	56	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

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Appendix G: Band edge measurements

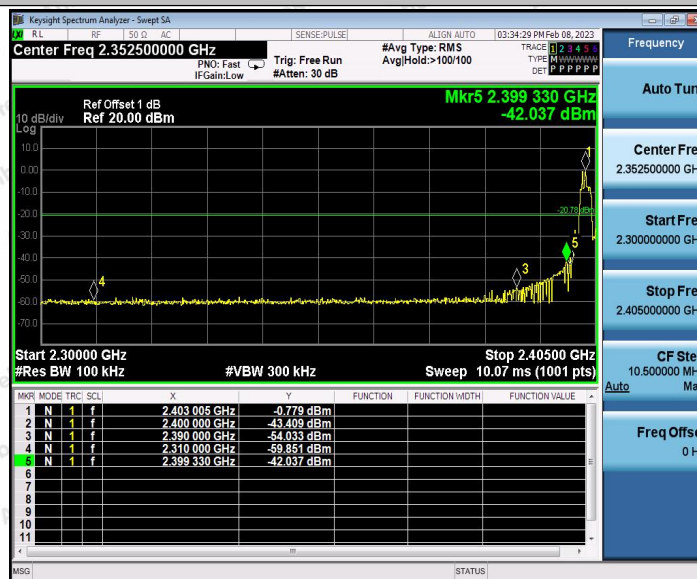
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	-0.78	-42.04	≤-20.78	PASS
		High	2480	-0.42	-42.47	≤-20.42	PASS
		Low	Hop_2402	-0.81	-55.01	≤-20.81	PASS
		High	Hop_2480	-0.75	-56.37	≤-20.75	PASS

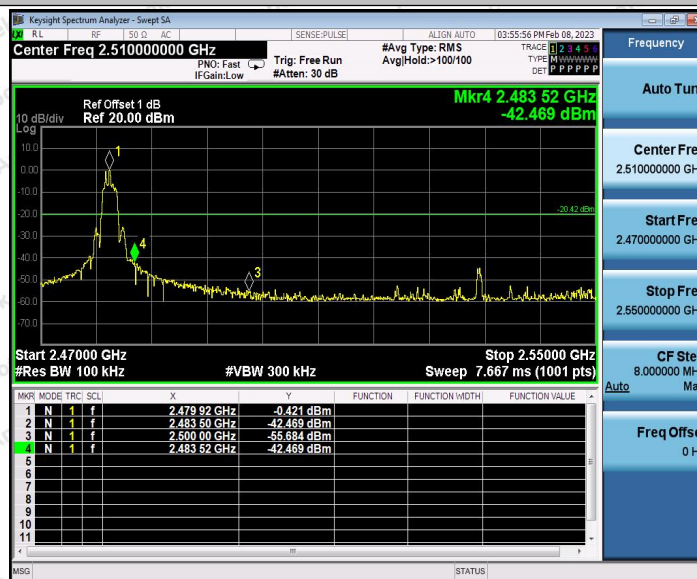


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2480



2.4G_Ant1_Low_Hop_2402

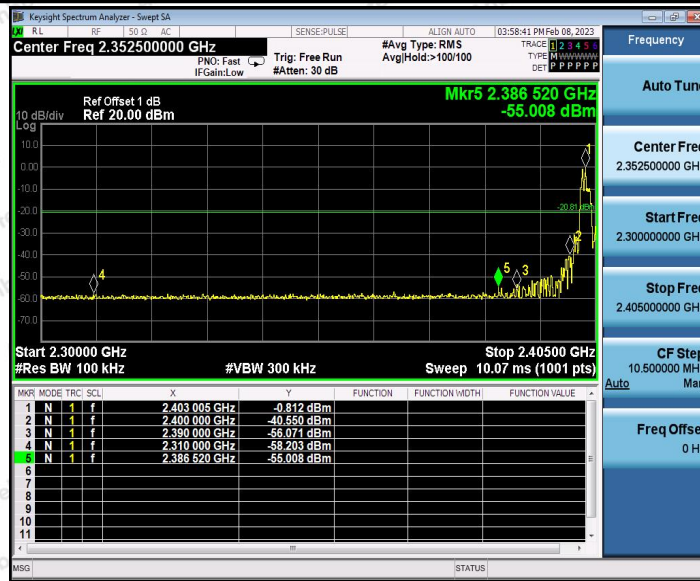
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2.4G_Ant1_High_Hop_2480



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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	2403	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-68.54	≤-20.81	PASS
			1000~26500	-0.81	-39.88	≤-20.81	PASS
		2441	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-68.96	≤-20.81	PASS
			1000~26500	-0.81	-36.54	≤-20.81	PASS
		2480	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-68.81	≤-20.7	PASS
			1000~26500	-0.70	-53.02	≤-20.7	PASS



Test Graphs



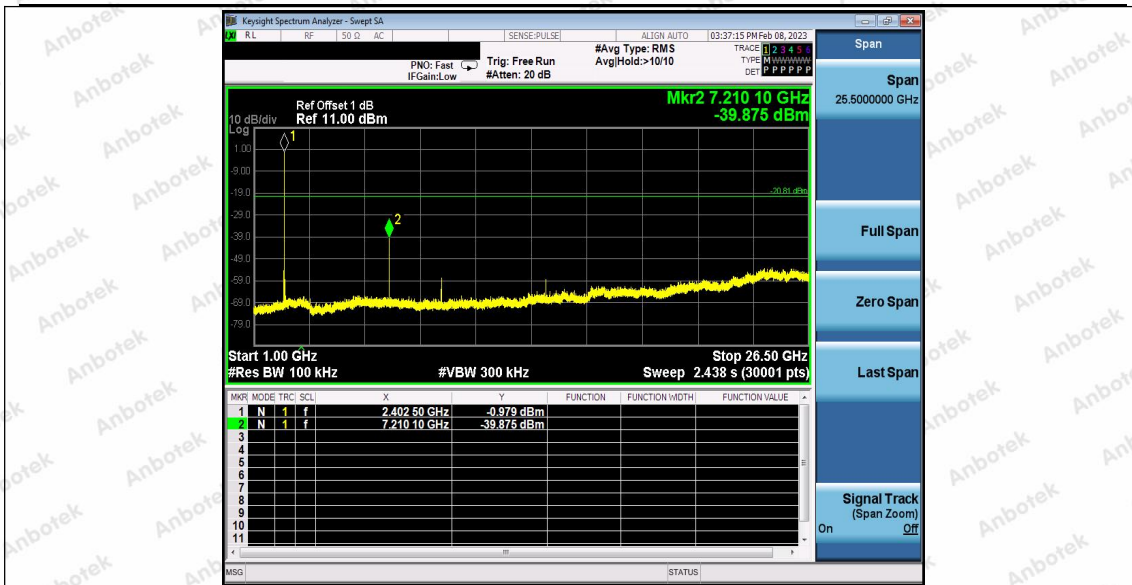
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2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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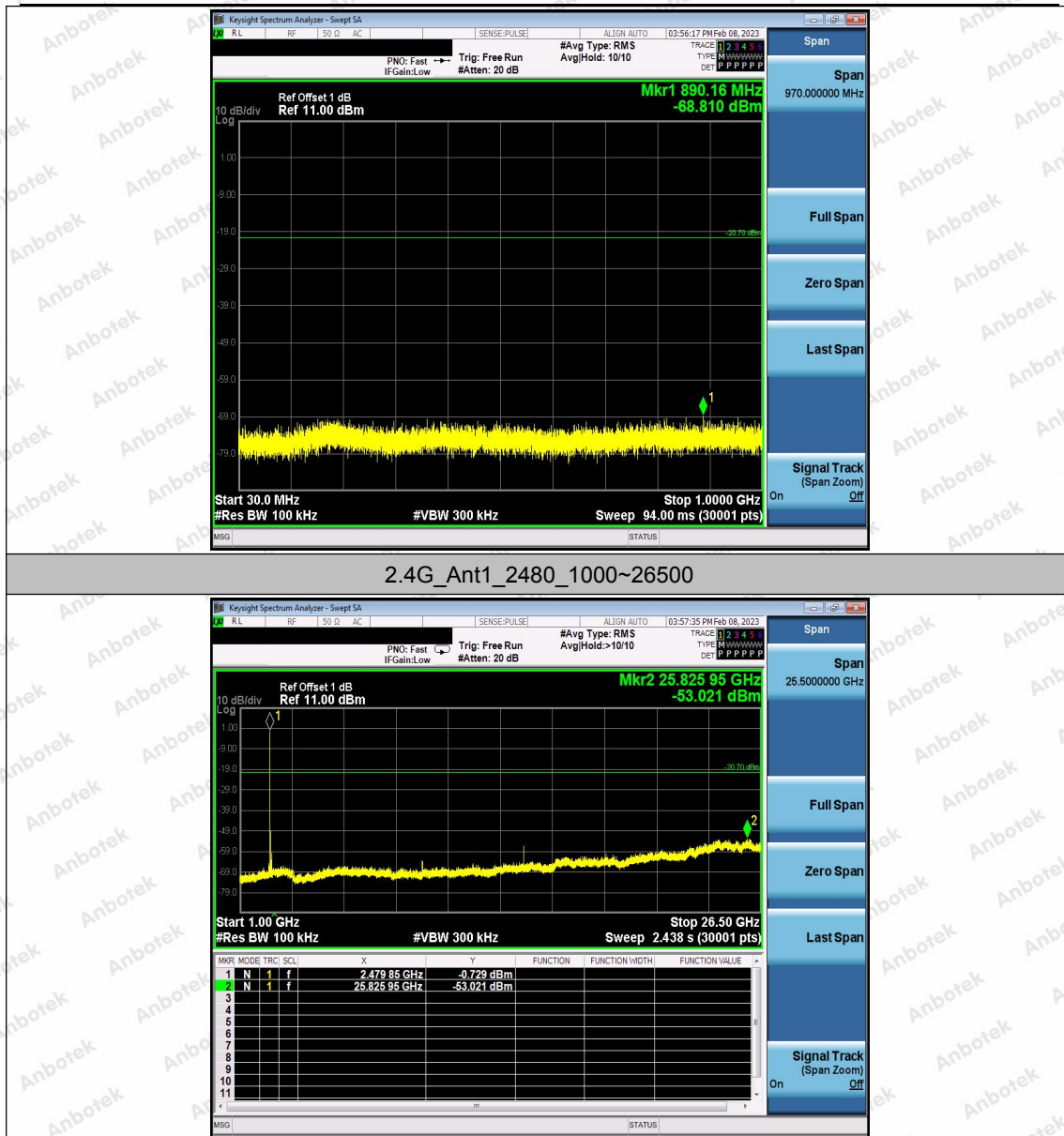
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.17	7.28	2.34	16.31
		2441	0.17	6.99	2.43	16.14
		2480	0.17	7.00	2.43	16.14

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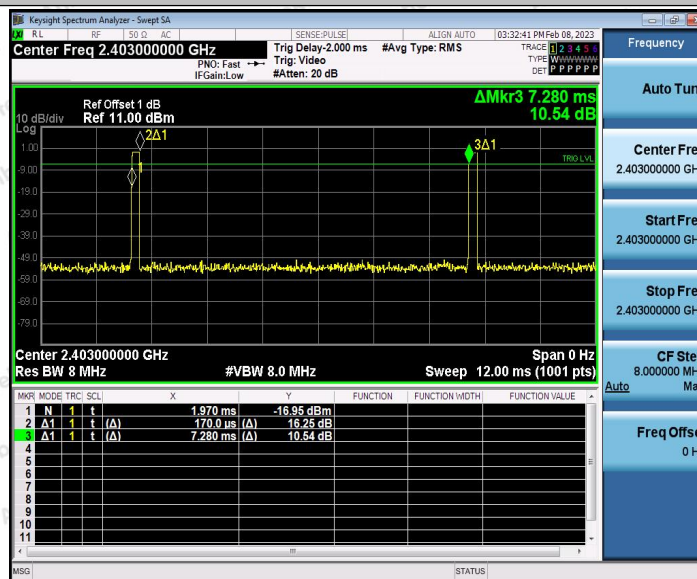


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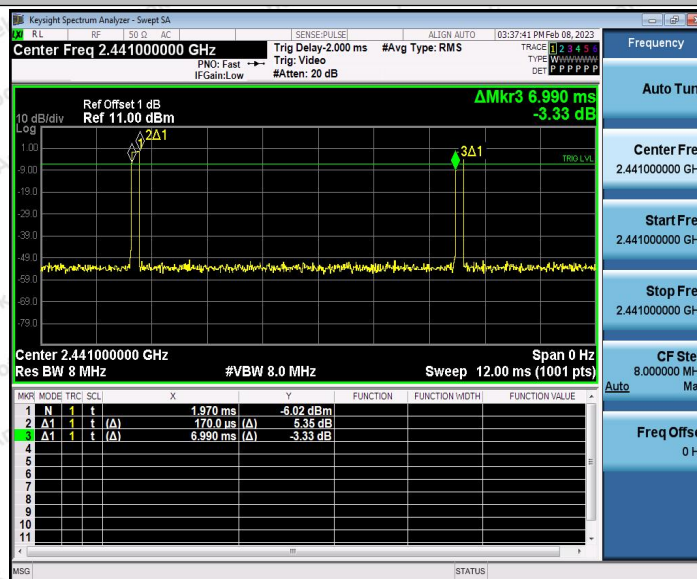


Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

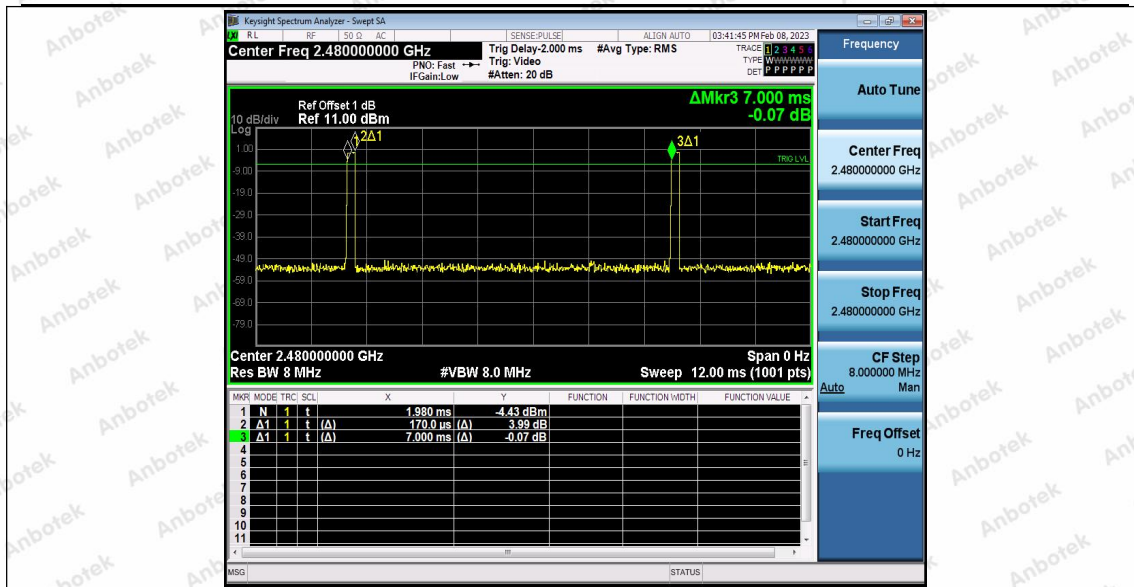
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