

Appendix Test Data

Report No.:	18220WC30011301	Test Sample No.:	1-2-2
Start Test Date:	2022.2.3	Finish Test Date:	2022.2.7
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3℃	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2403	2.195	2401.895	2404.090
		2441	2.155	2439.930	2442.085
		2480	2.150	2478.950	2481.100



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

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2403	2.1867	2401.9011	2404.0878
		2441	2.1654	2439.9027	2442.0681
		2480	2.1792	2478.9052	2481.0844



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	-0.30	≤30	PASS
		2441	-0.28	≤30	PASS
		2480	-0.33	≤30	PASS



Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

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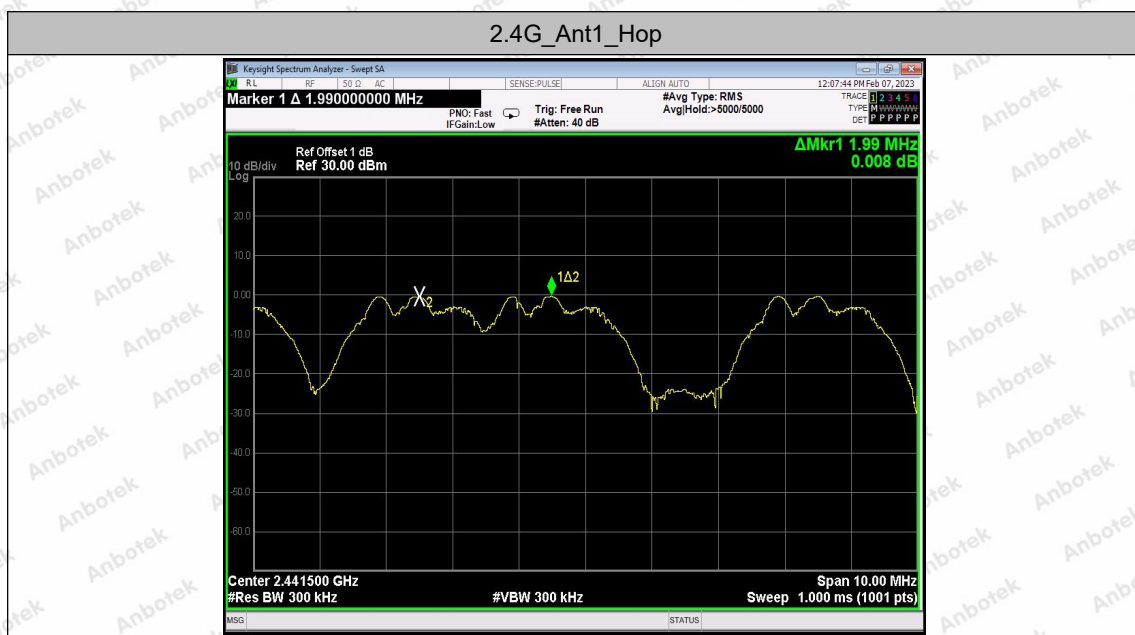


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.99	≥ 1.437	PASS

Test Graphs

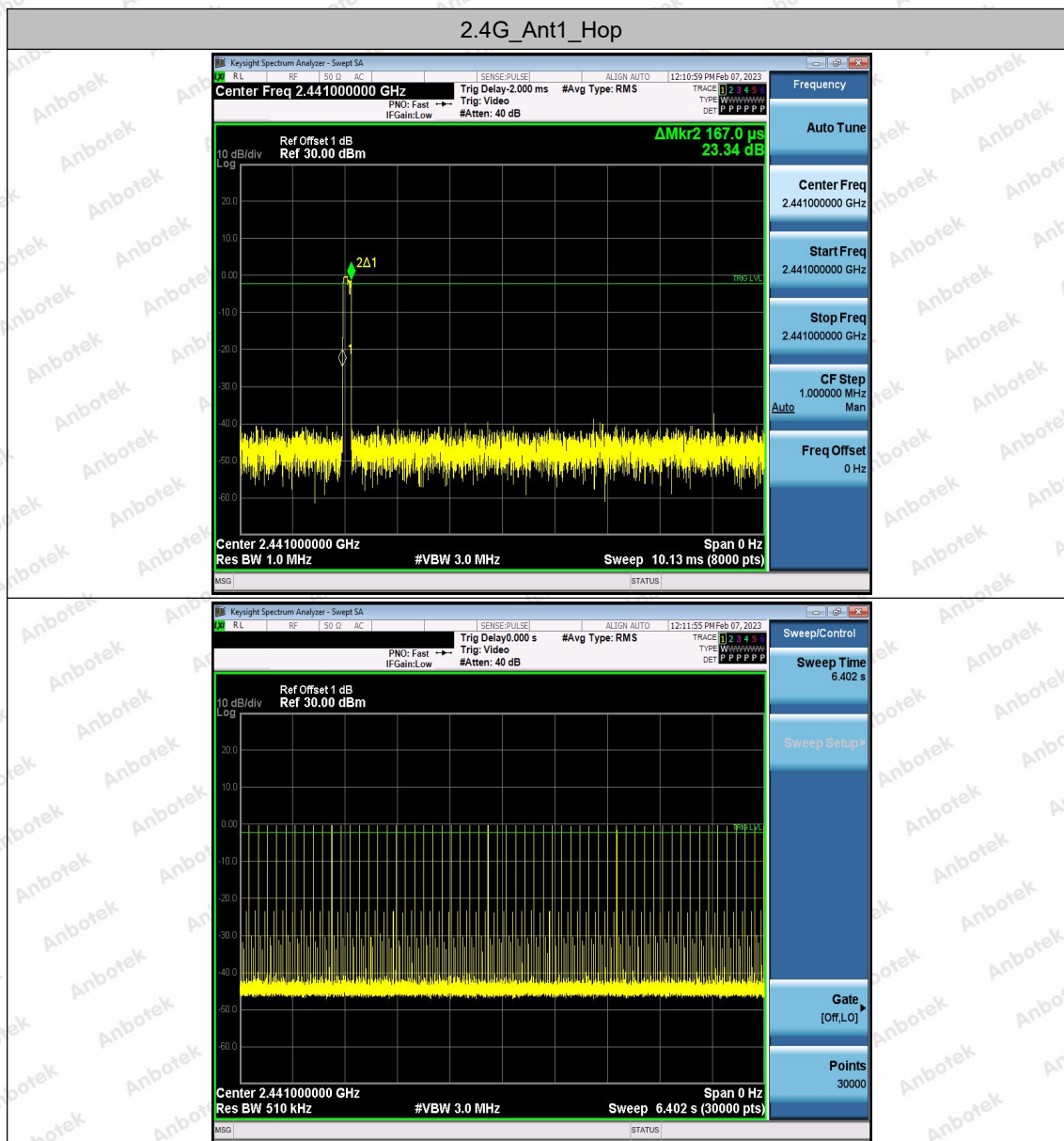


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.167	57	0.01	≤0.4	PASS

Test Graphs



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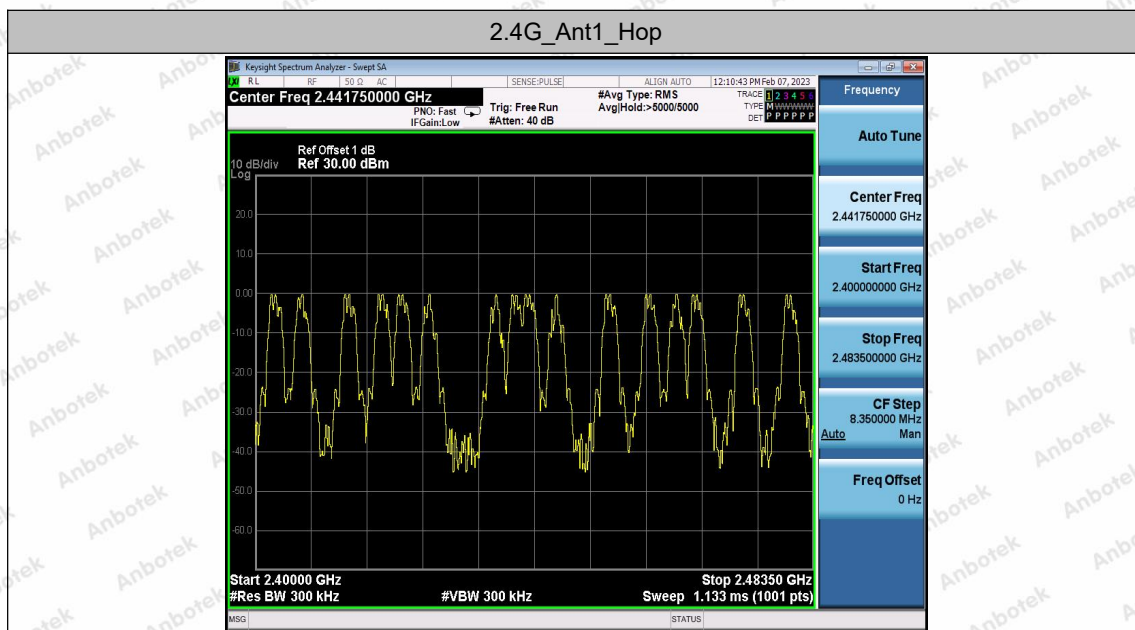


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	16	≥15	PASS

Test Graphs



Appendix G: Band edge measurements

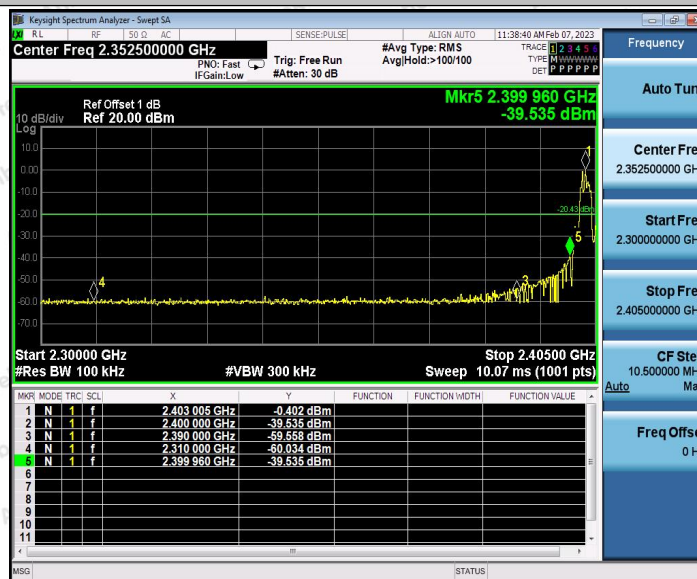
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	-0.43	-39.54	≤-20.43	PASS
		High	2480	-0.47	-45.62	≤-20.47	PASS
		Low	Hop_2402	-0.56	-53.94	≤-20.56	PASS
		High	Hop_2480	-0.33	-49.5	≤-20.33	PASS

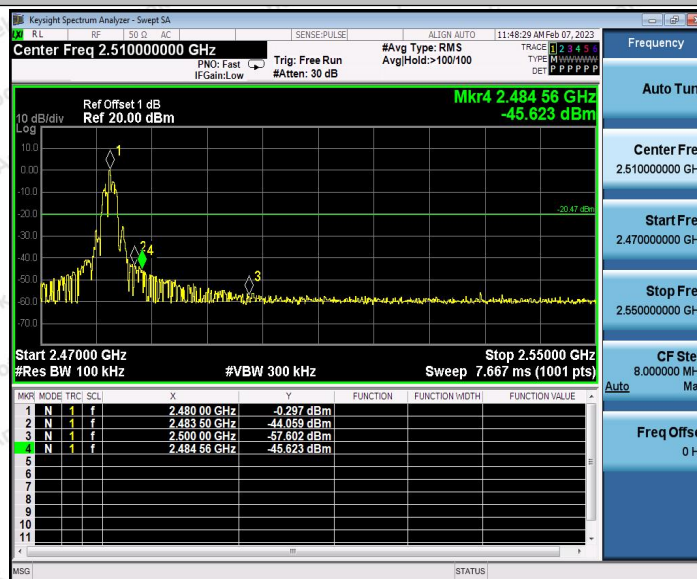


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2480



2.4G_Ant1_Low_Hop_2402

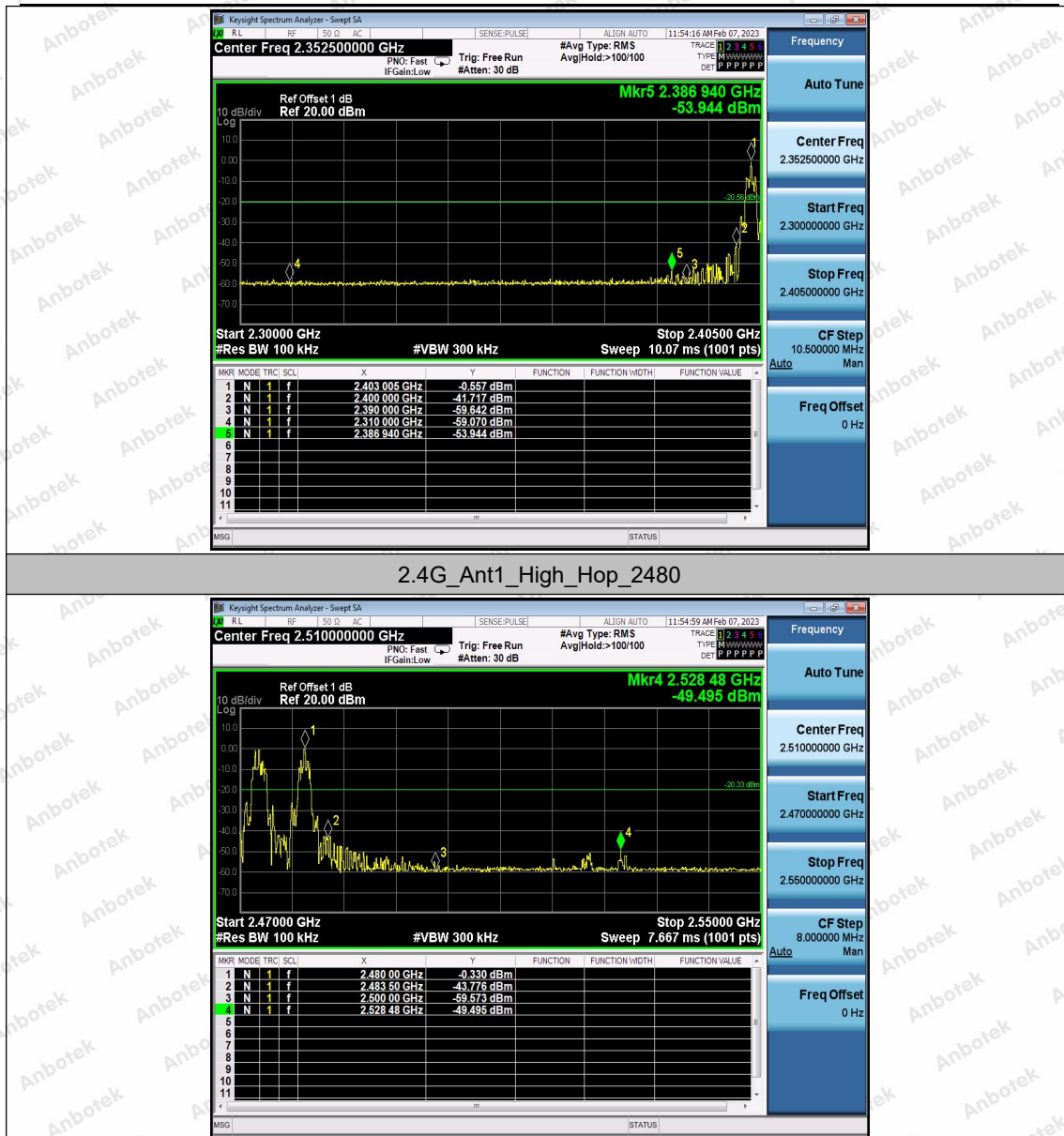
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-68.59	≤-20.41	PASS
			1000~26500	-0.41	-49.19	≤-20.41	PASS
		2441	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-68.72	≤-20.41	PASS
			1000~26500	-0.41	-52.81	≤-20.41	PASS
		2480	Reference	-0.44	-0.44	---	PASS
			30~1000	-0.44	-68.38	≤-20.44	PASS
			1000~26500	-0.44	-29.27	≤-20.44	PASS



Test Graphs



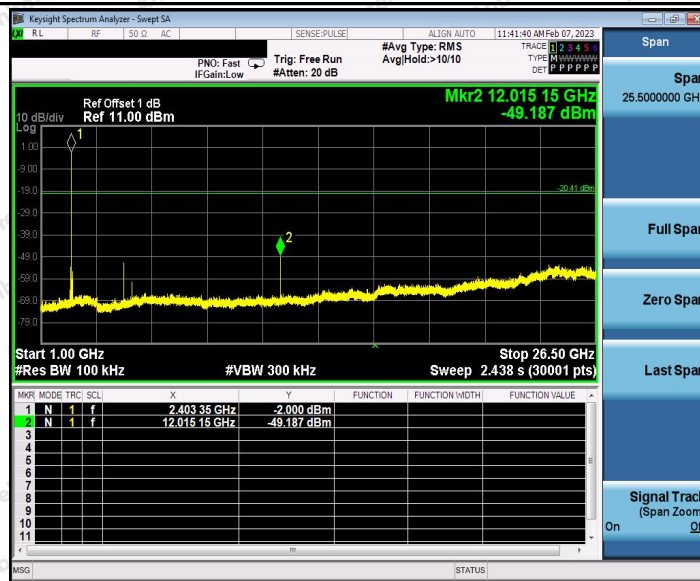
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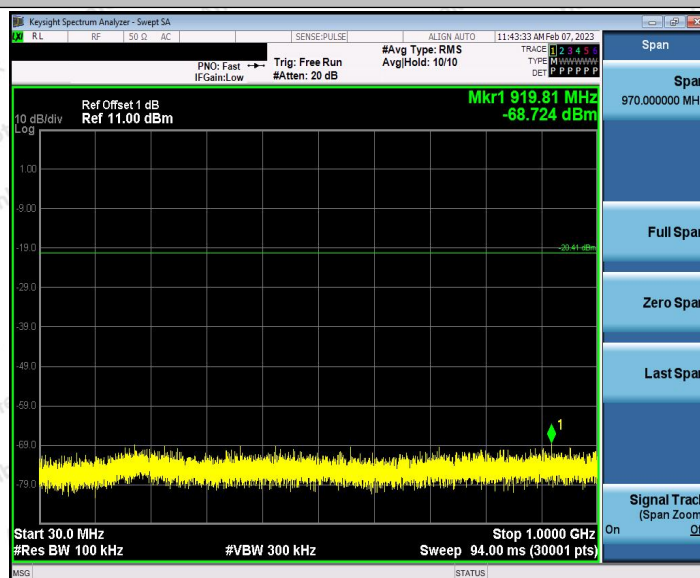




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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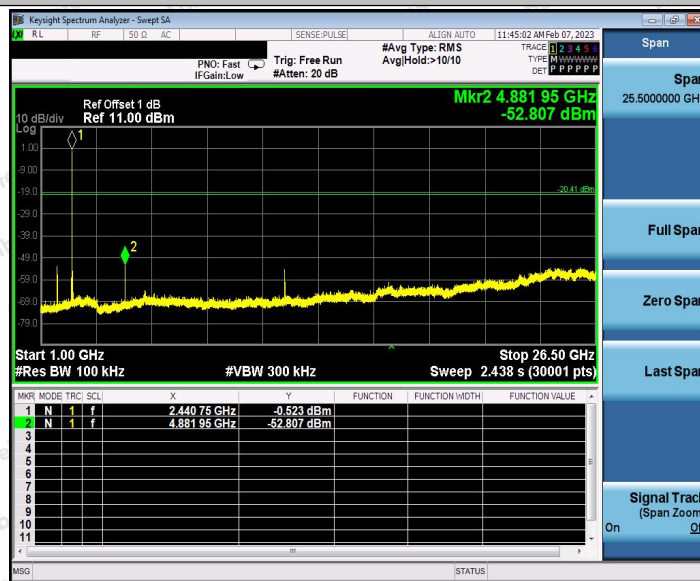
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2480_0~Reference



2.4G_Ant1_2480_30~1000

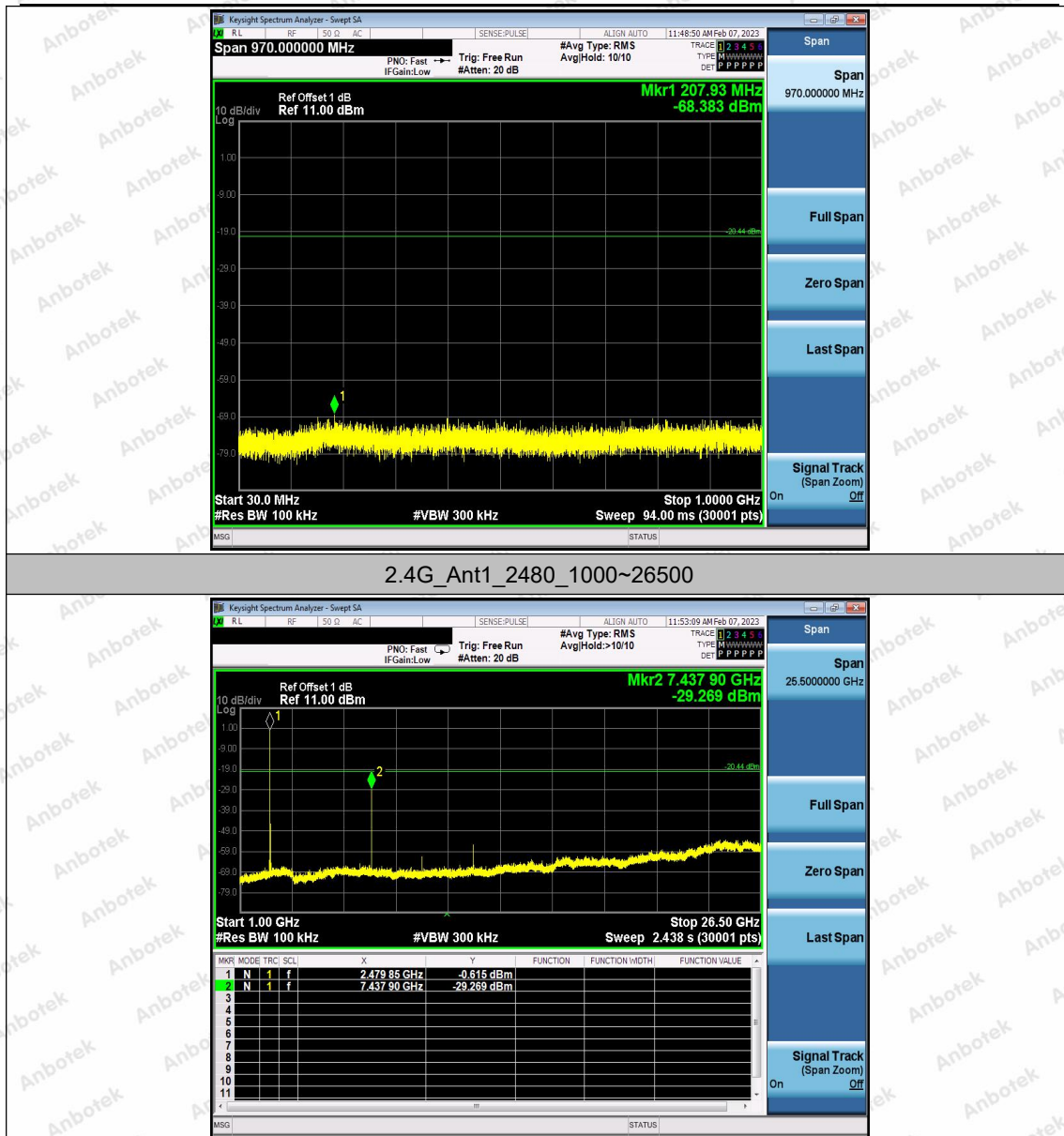
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Appendix I: Duty Cycle

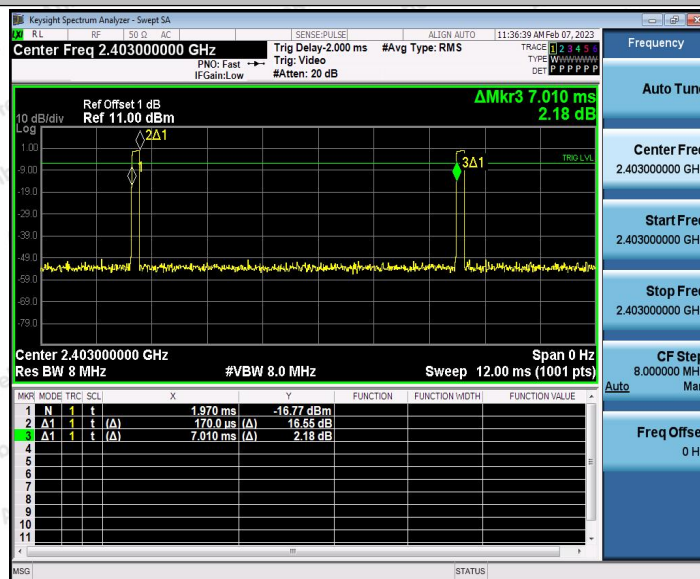
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.17	7.01	2.43	16.14
		2441	0.17	7.01	2.43	16.14
		2480	0.17	6.99	2.43	16.14

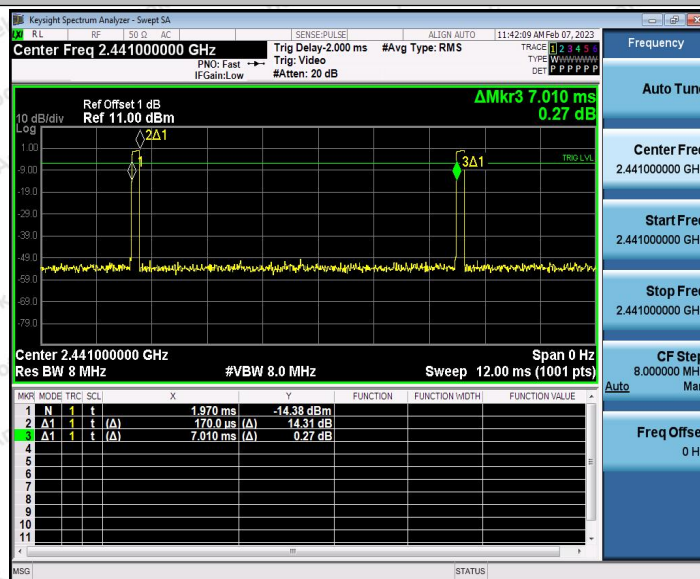


Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

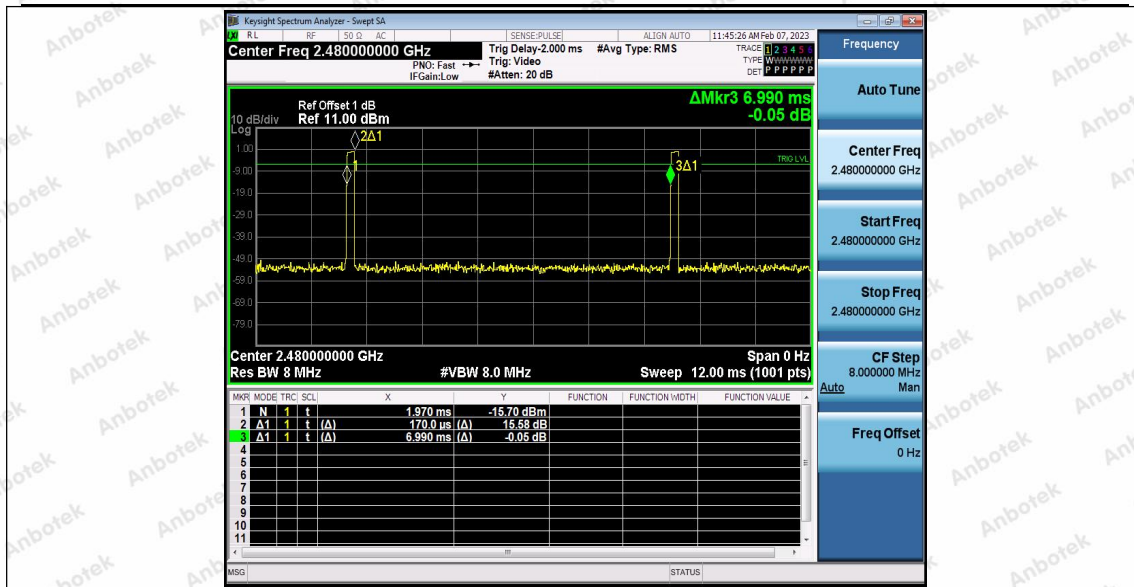
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