

Appendix Test Data

Report No.:	18220WC30012003	Test Sample No.:	1-2-2
Start Test Date:	2023.2.3	Finish Test Date:	2023.2.14
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.3°C	Relative Humidity:	56 %
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	2.205	2401.968	2404.173	---	---
		2441	2.085	2440.005	2442.090	---	---
		2480	2.110	2478.995	2481.105	---	---

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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs



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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	2.0836	2402.0004	2404.0942	---	---
		2441	2.1058	2439.9894	2442.0938	---	---
		2480	2.1337	2478.9519	2481.0915	---	---

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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	2.29	≤20.97	PASS
		2441	2.06	≤20.97	PASS
		2480	1.6	≤20.97	PASS

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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

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.64	≥1.470	PASS



Test Graphs



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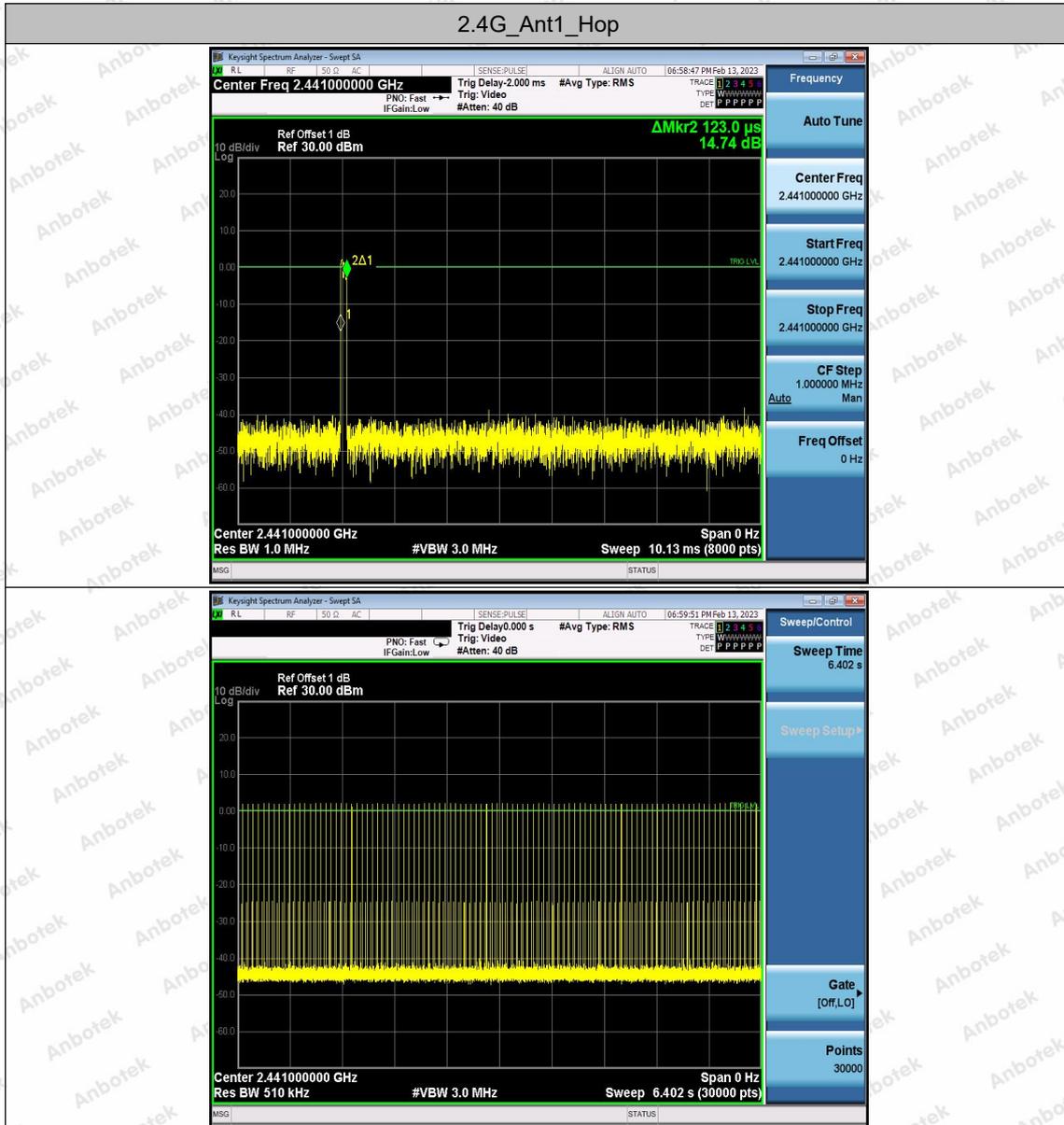
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.123	101	0.012	≤0.4	PASS



Test Graphs



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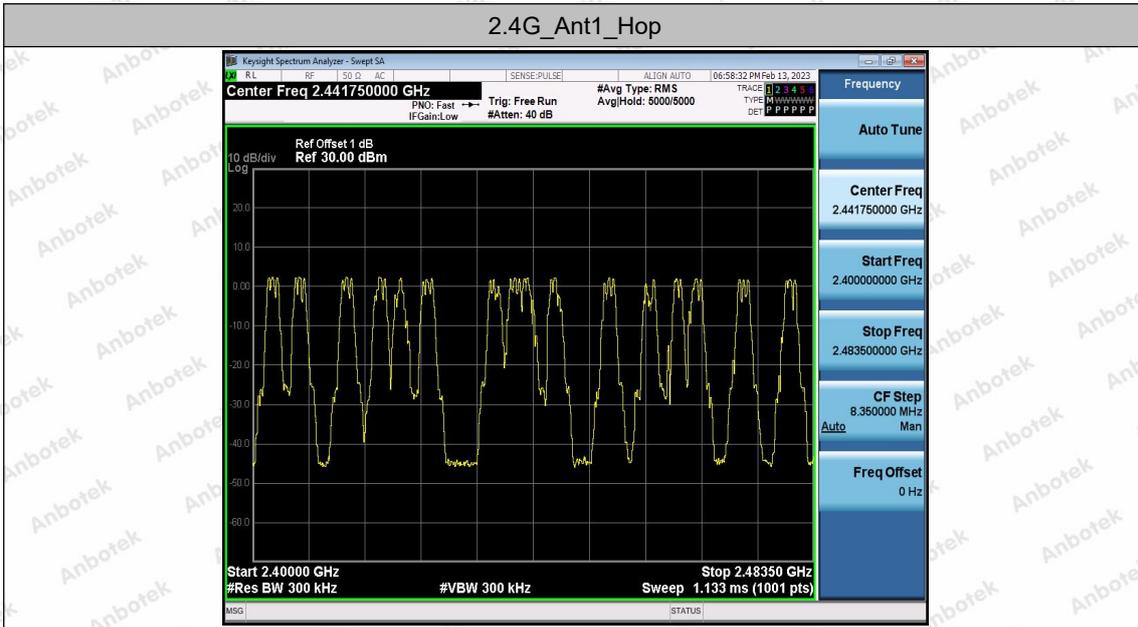
Appendix F: Number of hopping channels

Test Result

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



Test Graphs



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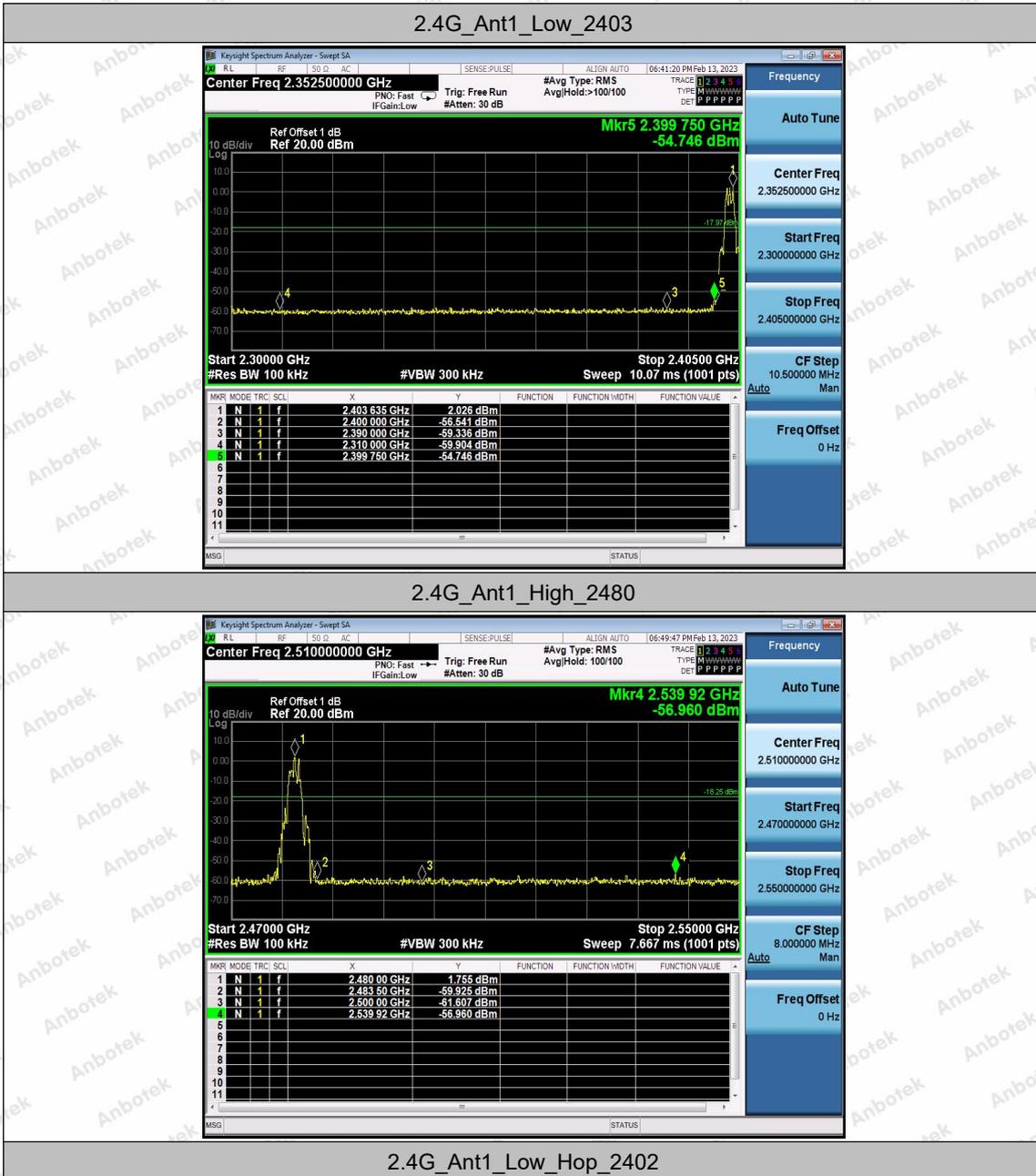
Appendix G: Band edge measurements

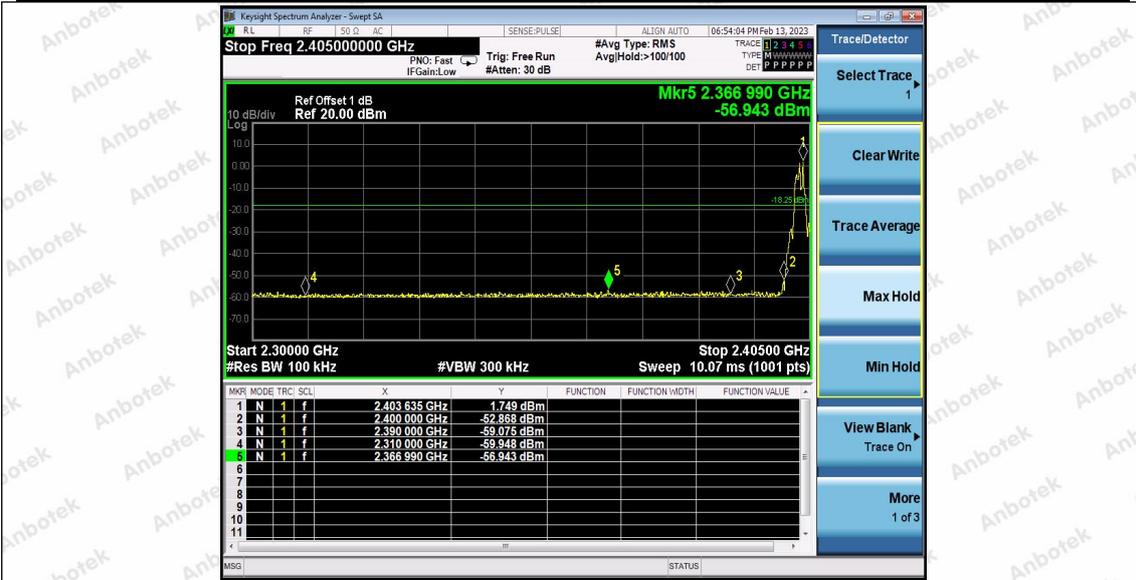
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	2.03	-54.75	≤-17.97	PASS
		High	2480	1.76	-56.96	≤-18.25	PASS
		Low	Hop_2402	1.75	-56.94	≤-18.25	PASS
		High	Hop_2480	0.87	-56.1	≤-19.13	PASS

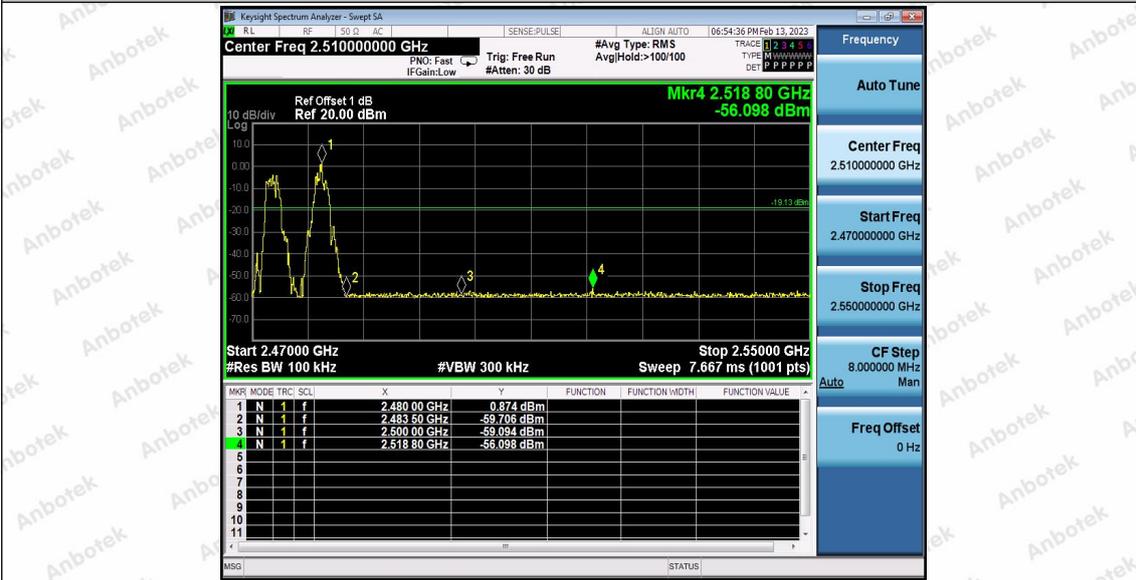


Test Graphs





2.4G_Ant1_High_Hop_2480



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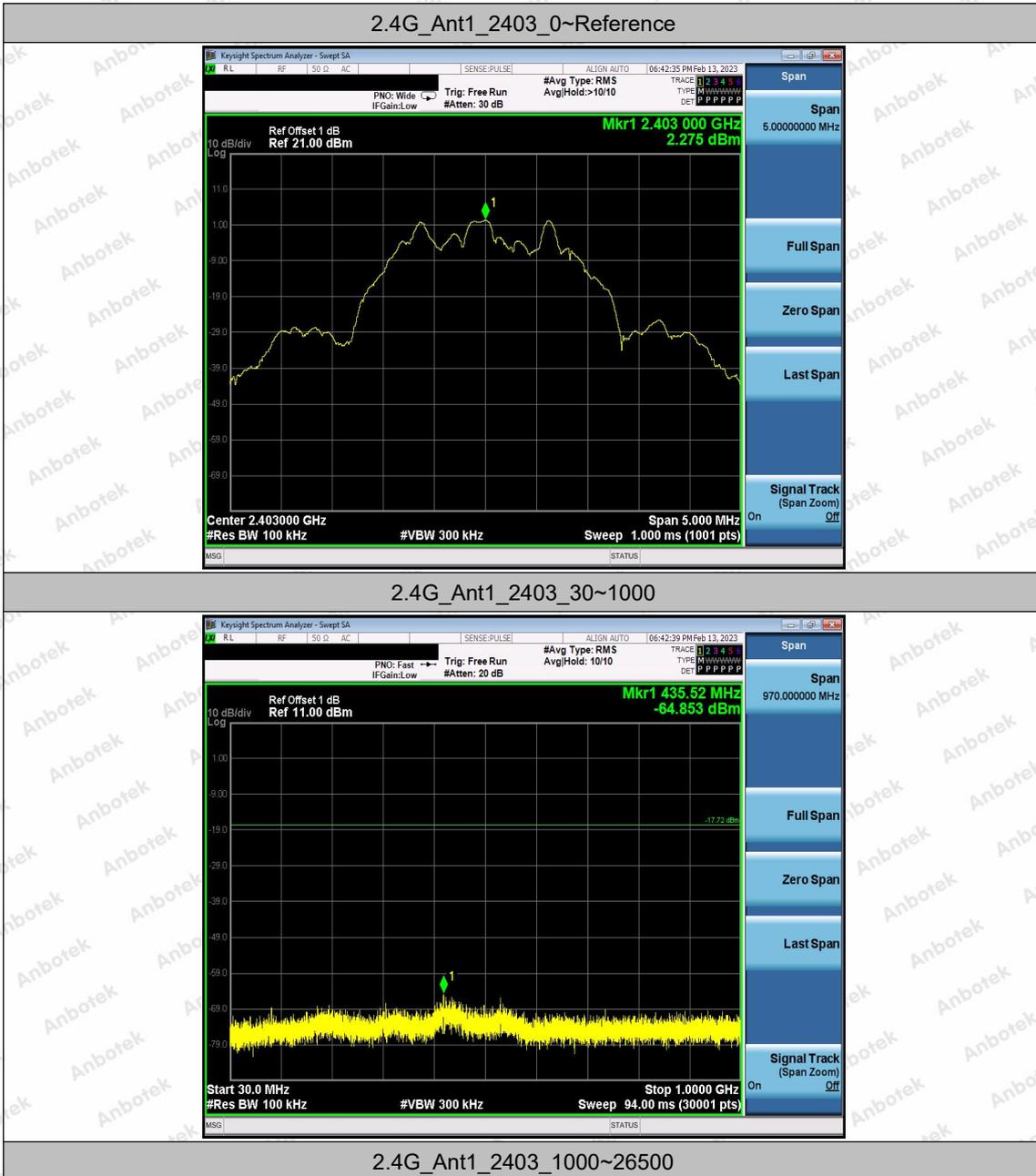
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-64.85	≤-17.72	PASS
			1000~26500	2.28	-51.59	≤-17.72	PASS
		2441	Reference	1.91	1.91	---	PASS
			30~1000	1.91	-63.64	≤-18.09	PASS
			1000~26500	1.91	-53.06	≤-18.09	PASS
		2480	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-64.55	≤-18.53	PASS
			1000~26500	1.47	-44.56	≤-18.53	PASS



Test Graphs

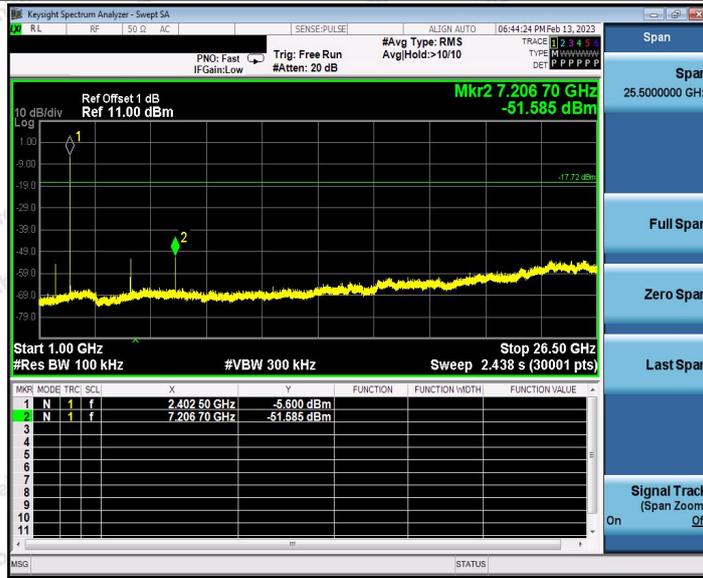


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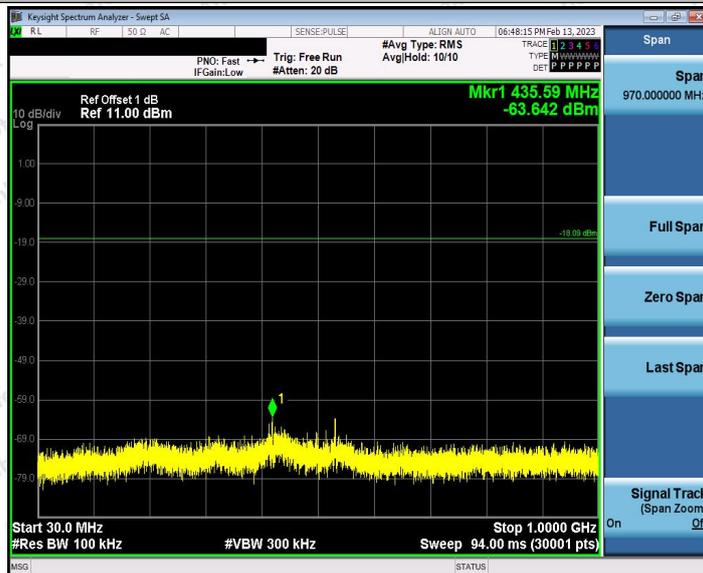




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000

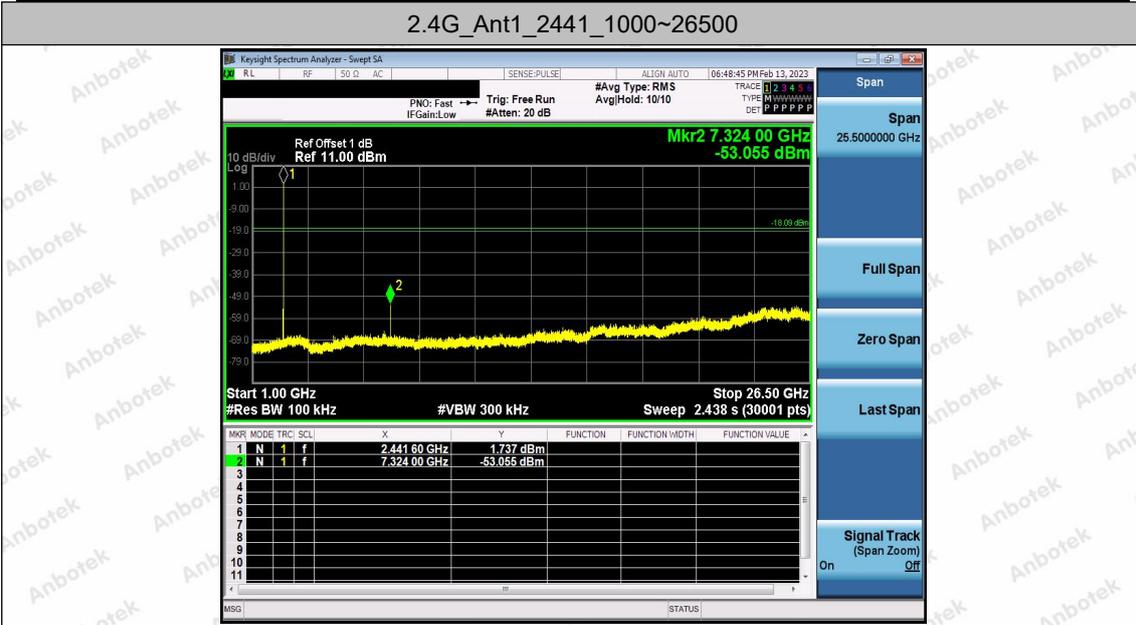


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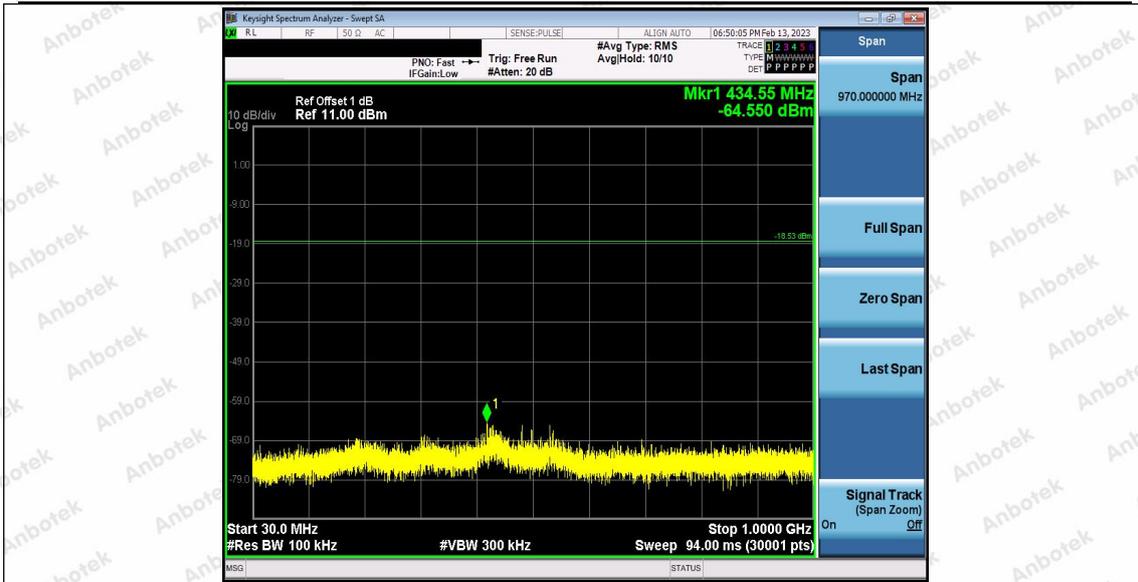
2.4G_Ant1_2480_30~1000

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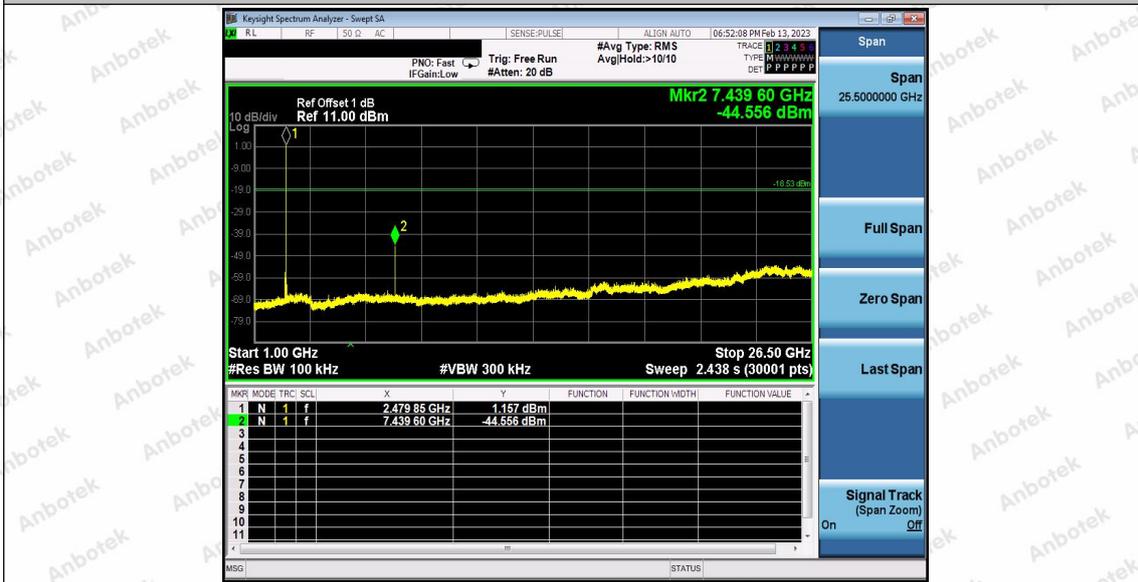
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2.4G_Ant1_2480_1000~26500



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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	2403	0.13	3.94	3.30	14.81
		2441	0.12	3.93	3.05	15.16
		2480	0.12	4.09	2.93	15.33

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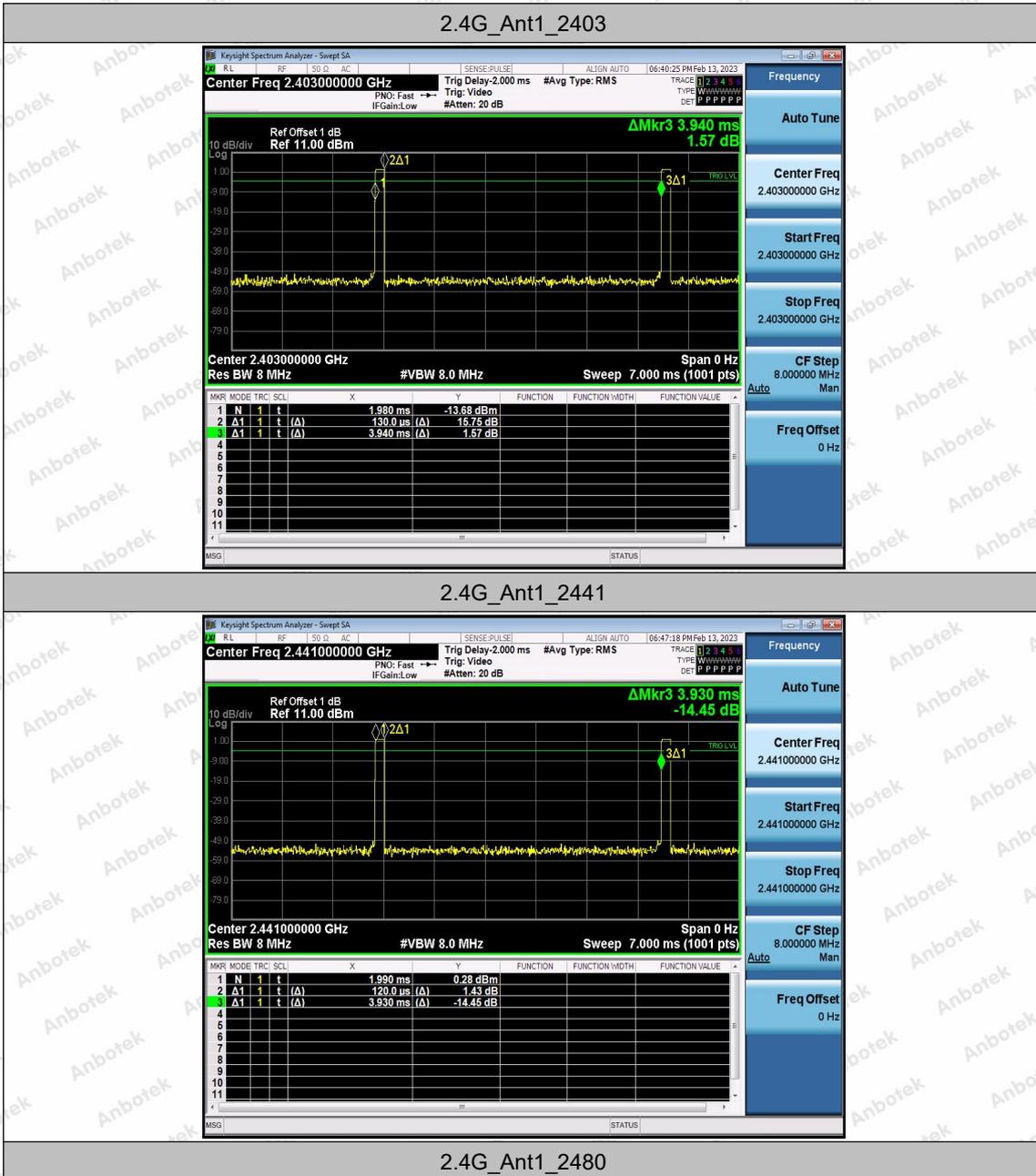
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Test Graphs

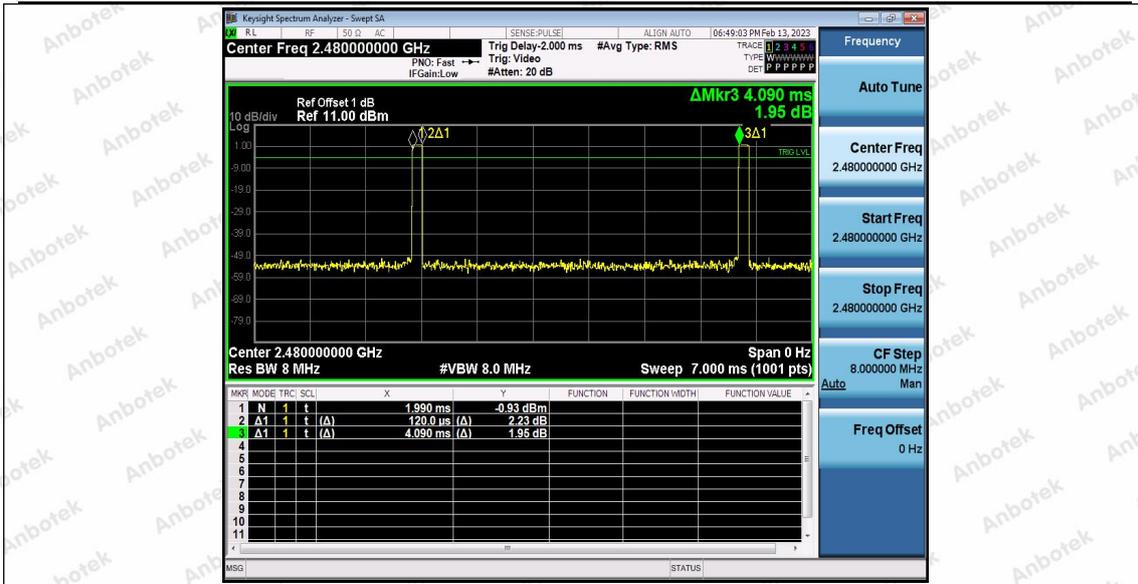


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