

Appendix Test Data

Report No.:	18220WC30012803	Test Sample No.:	1-2-2
Start Test Date:	2023.2.3	Finish Test Date:	2023.2.9
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	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	2.115	2401.950	2404.065
		2441	2.150	2440.000	2442.150
		2480	2.175	2478.985	2481.160

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Test Graphs



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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	2.1860	2401.9078	2404.0921
		2441	2.1350	2439.9622	2442.0943
		2480	2.0966	2478.9992	2481.0943



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	5.52	≤30	PASS
		2441	5.26	≤30	PASS
		2480	5.01	≤30	PASS



Test Graphs



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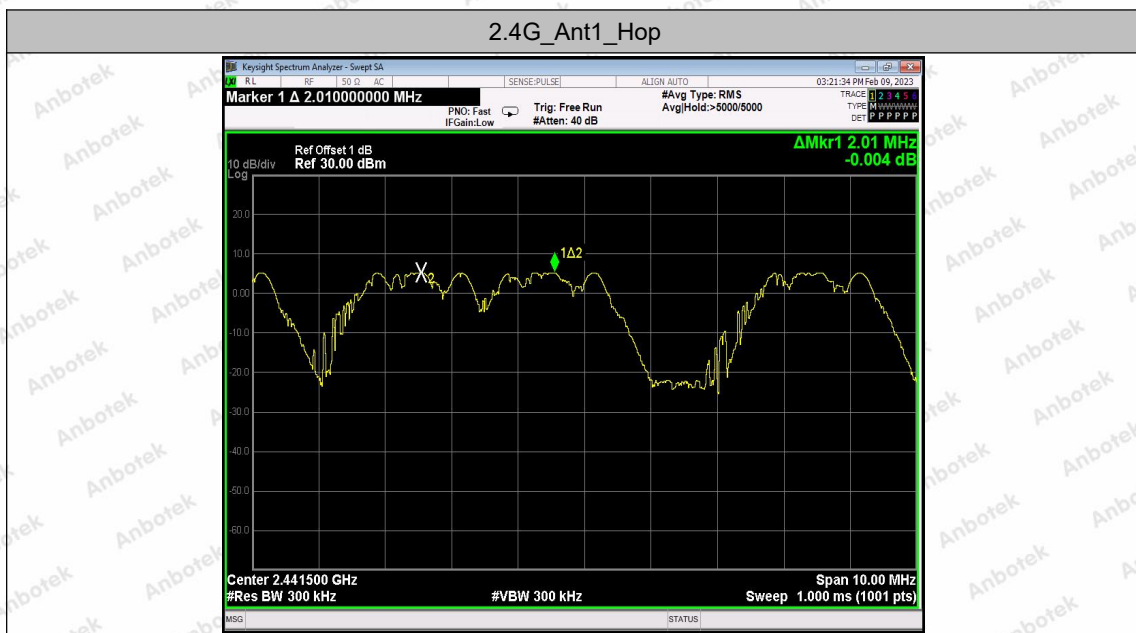


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.01	≥1.450	PASS

Test Graphs



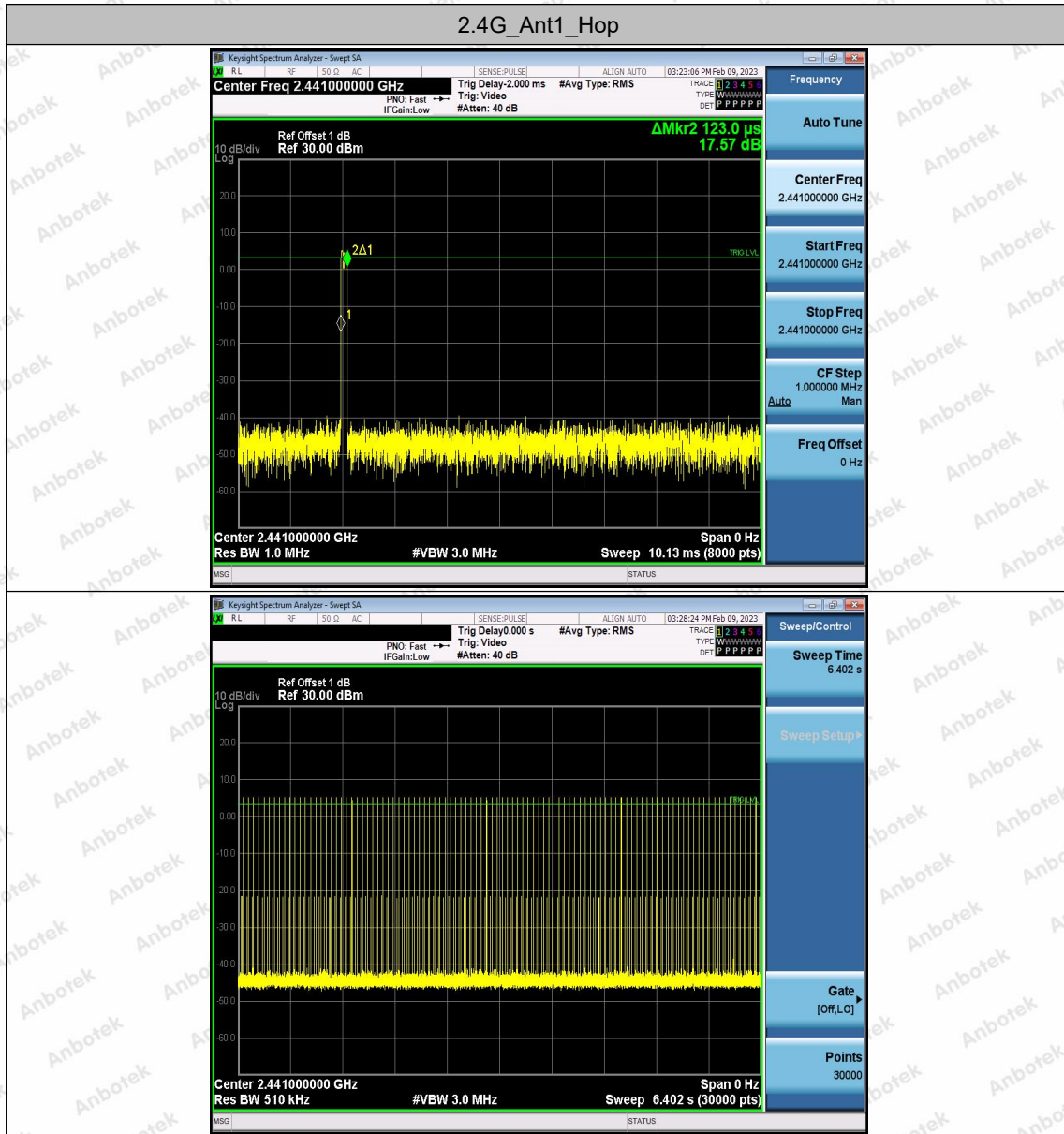
Appendix E: Time of occupancy

Test Result

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



Test Graphs



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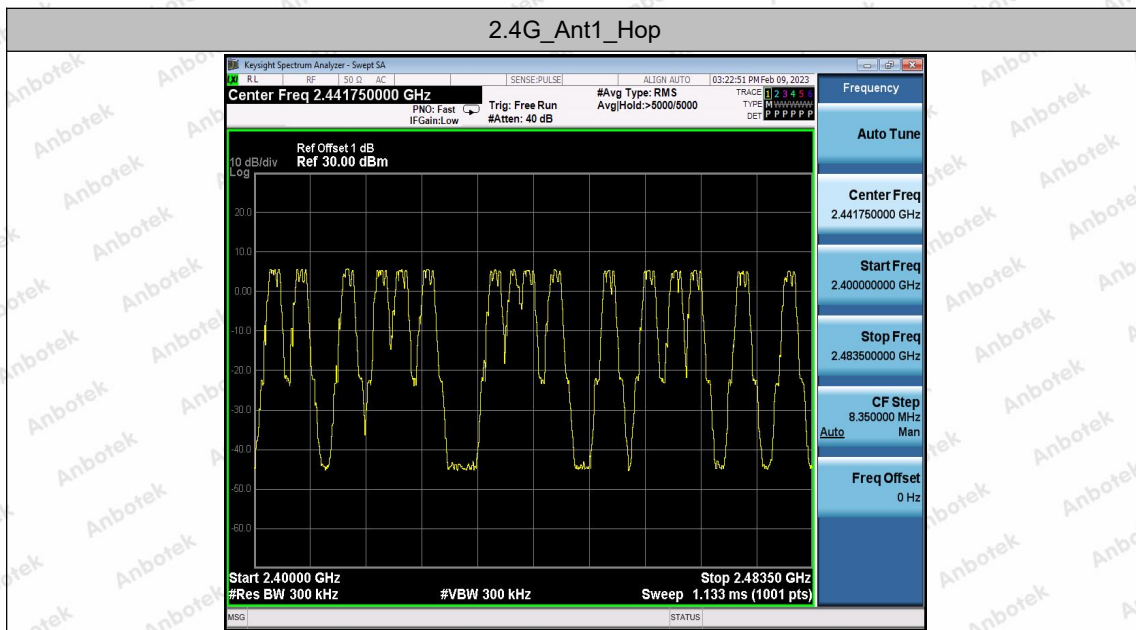


Appendix F: Number of hopping channels

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	5.43	-50.01	≤-14.58	PASS
		High	2480	4.98	-55.1	≤-15.02	PASS
		Low	Hop_2402	4.04	-56.56	≤-15.96	PASS
		High	Hop_2480	5.06	-46.26	≤-14.94	PASS

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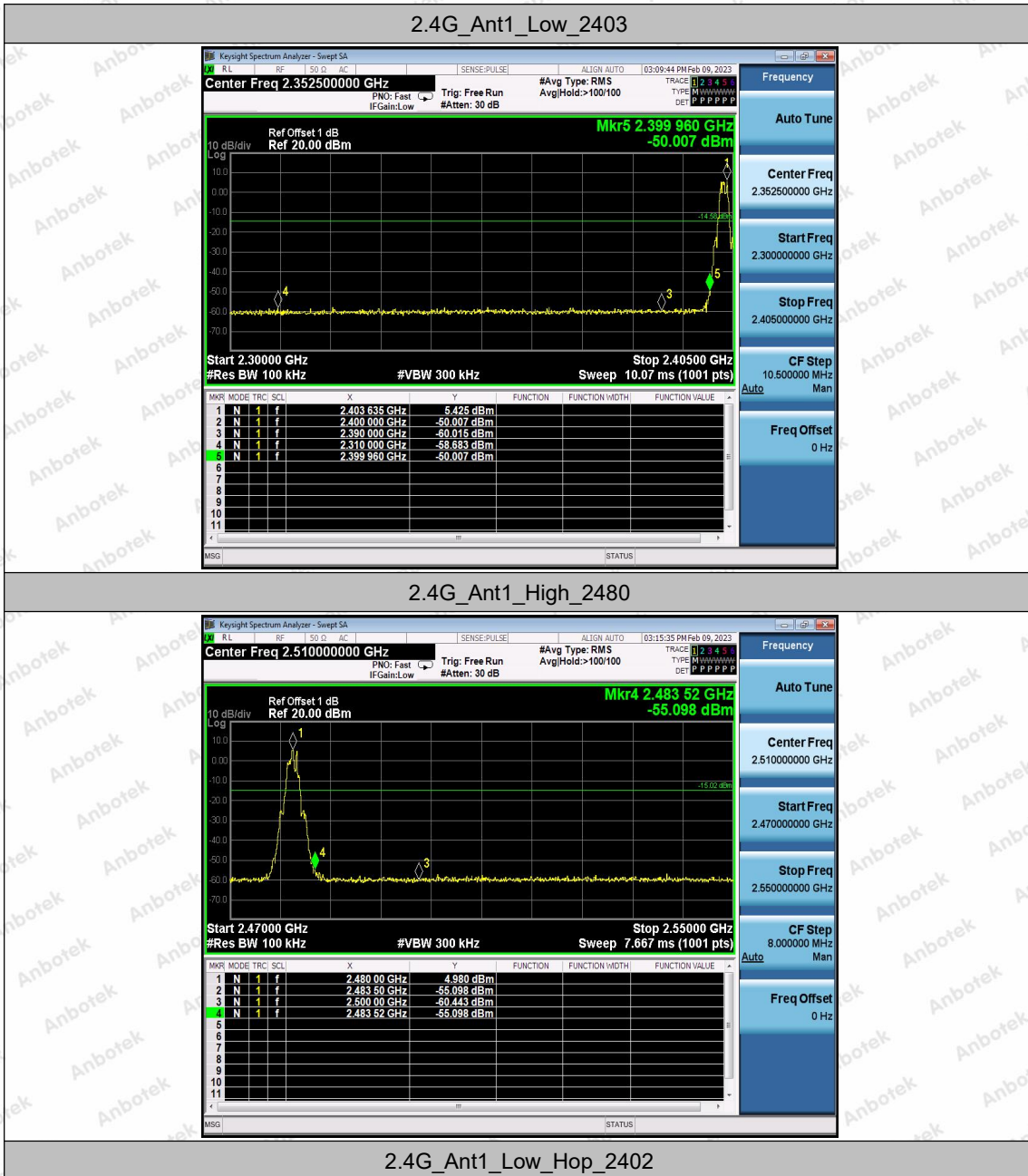
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Test Graphs

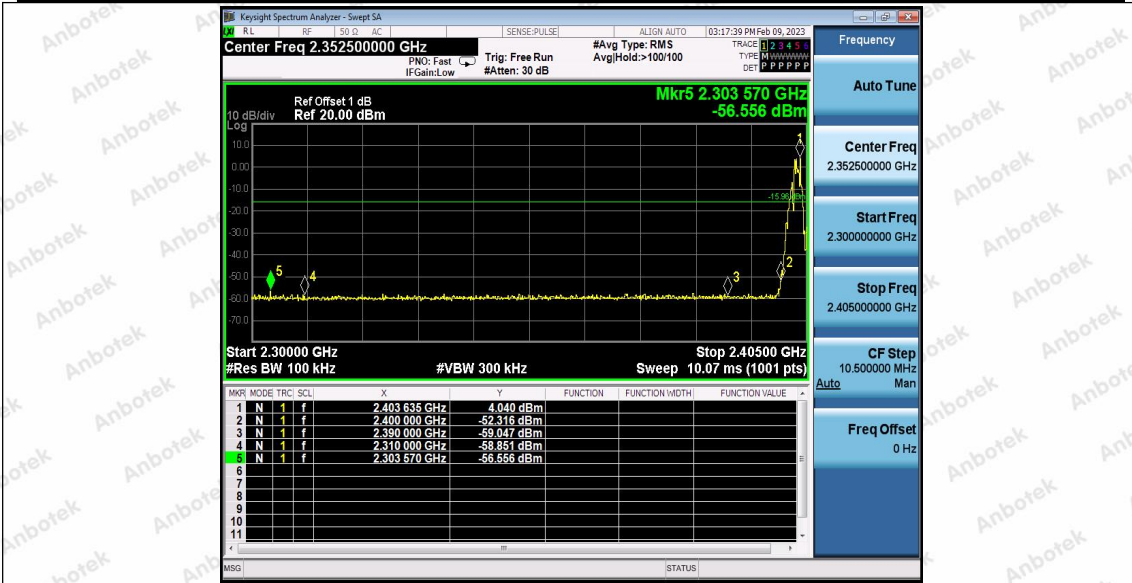


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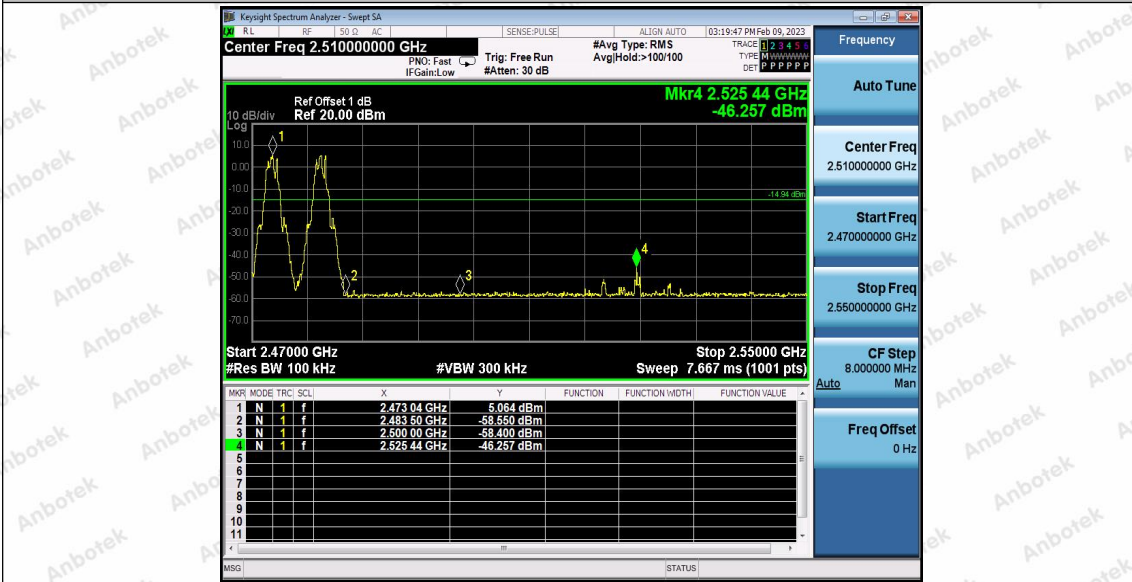
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2.4G_Ant1_High_Hop_2480



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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	2403	Reference	4.90	4.90	---	PASS
			30~1000	4.90	-68.39	≤-15.1	PASS
			1000~26500	4.90	-53.47	≤-15.1	PASS
		2441	Reference	5.17	5.17	---	PASS
			30~1000	5.17	-68.18	≤-14.83	PASS
			1000~26500	5.17	-53.04	≤-14.83	PASS
		2480	Reference	4.94	4.94	---	PASS
			30~1000	4.94	-66.75	≤-15.06	PASS
			1000~26500	4.94	-53.24	≤-15.06	PASS

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Test Graphs

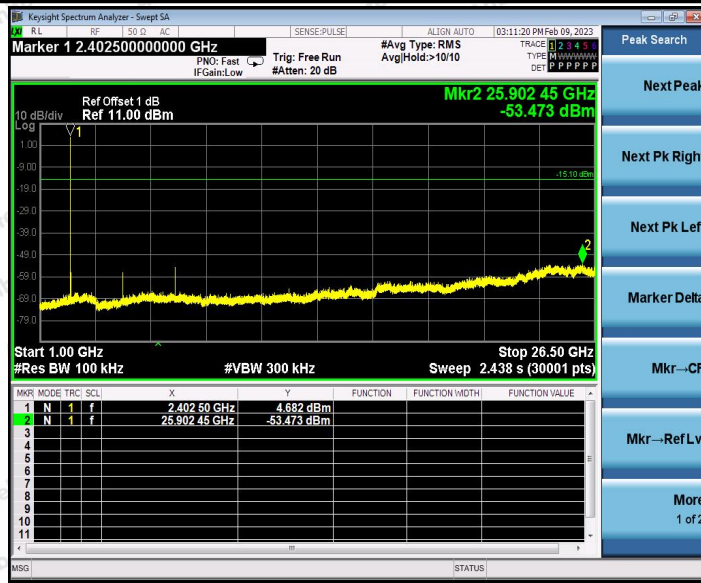


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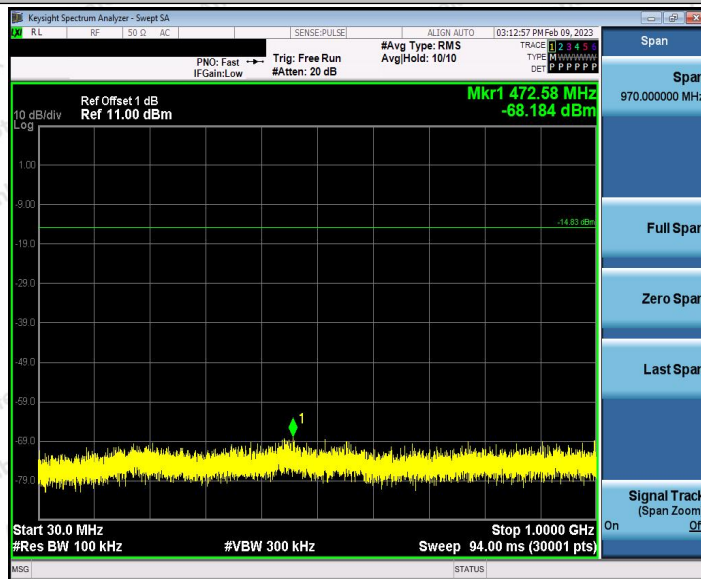




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



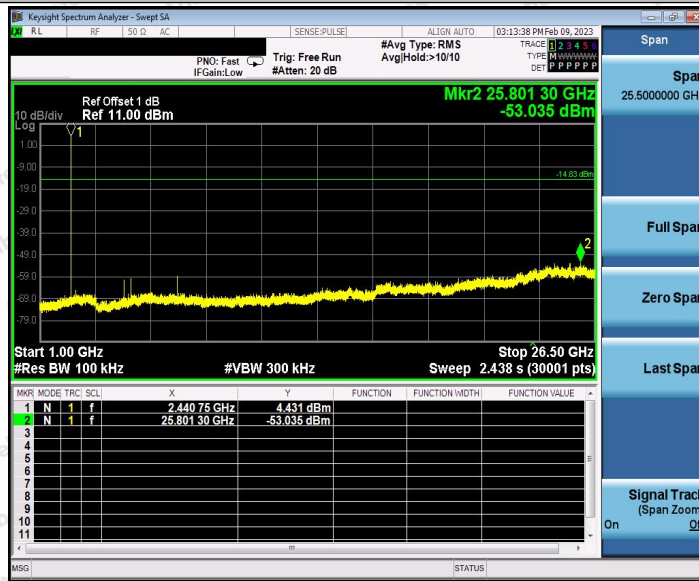
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2480_0~Reference



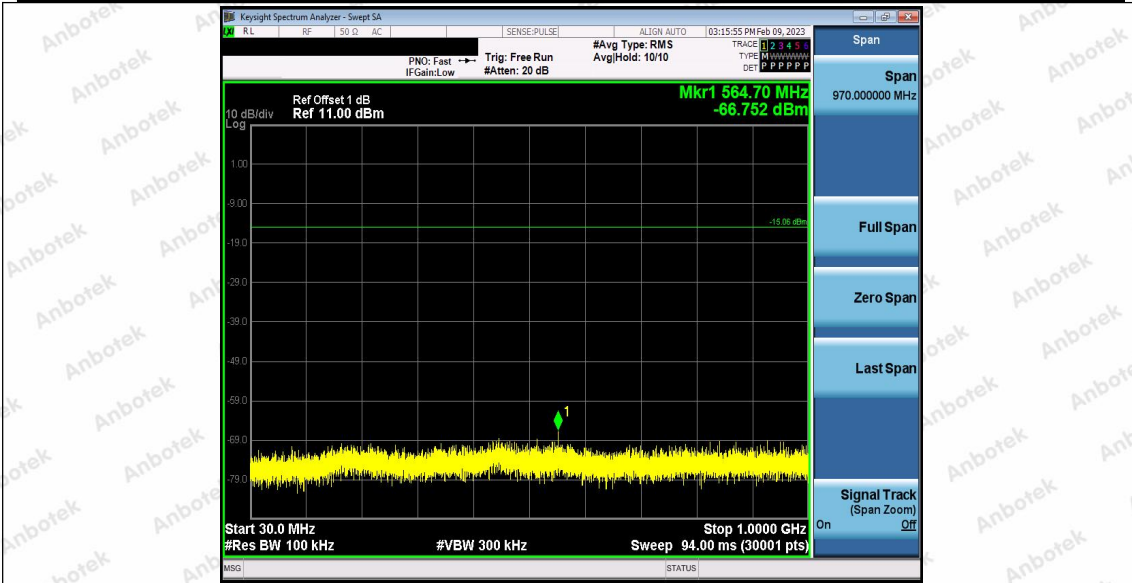
2.4G_Ant1_2480_30~1000

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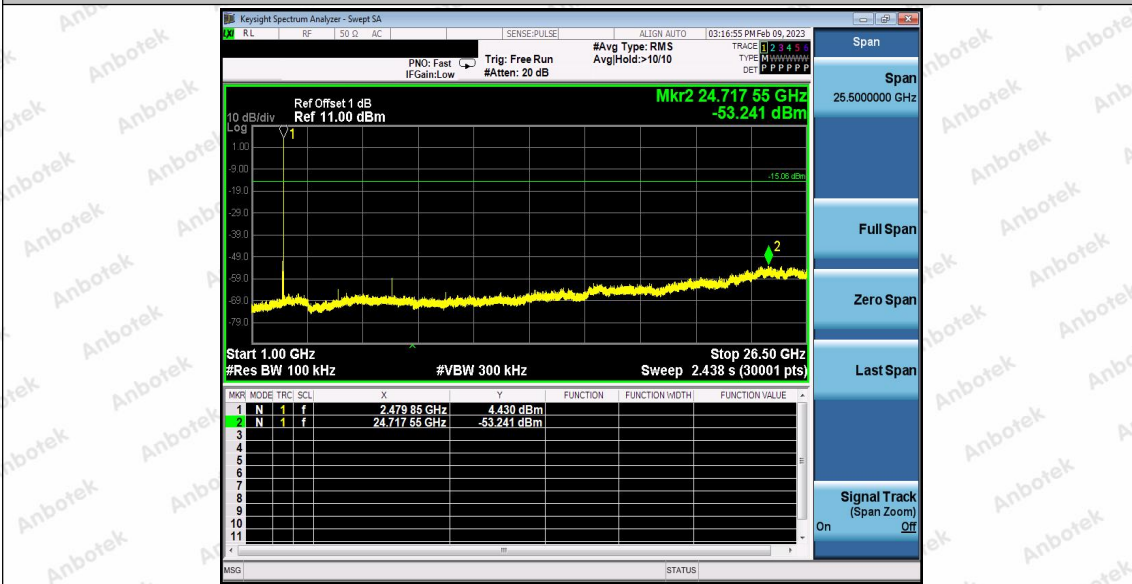
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2.4G_Ant1_2480_1000~26500



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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	2403	0.12	3.94	3.05	15.16
		2441	0.13	3.98	3.27	14.85
		2480	0.13	4.10	3.17	14.99

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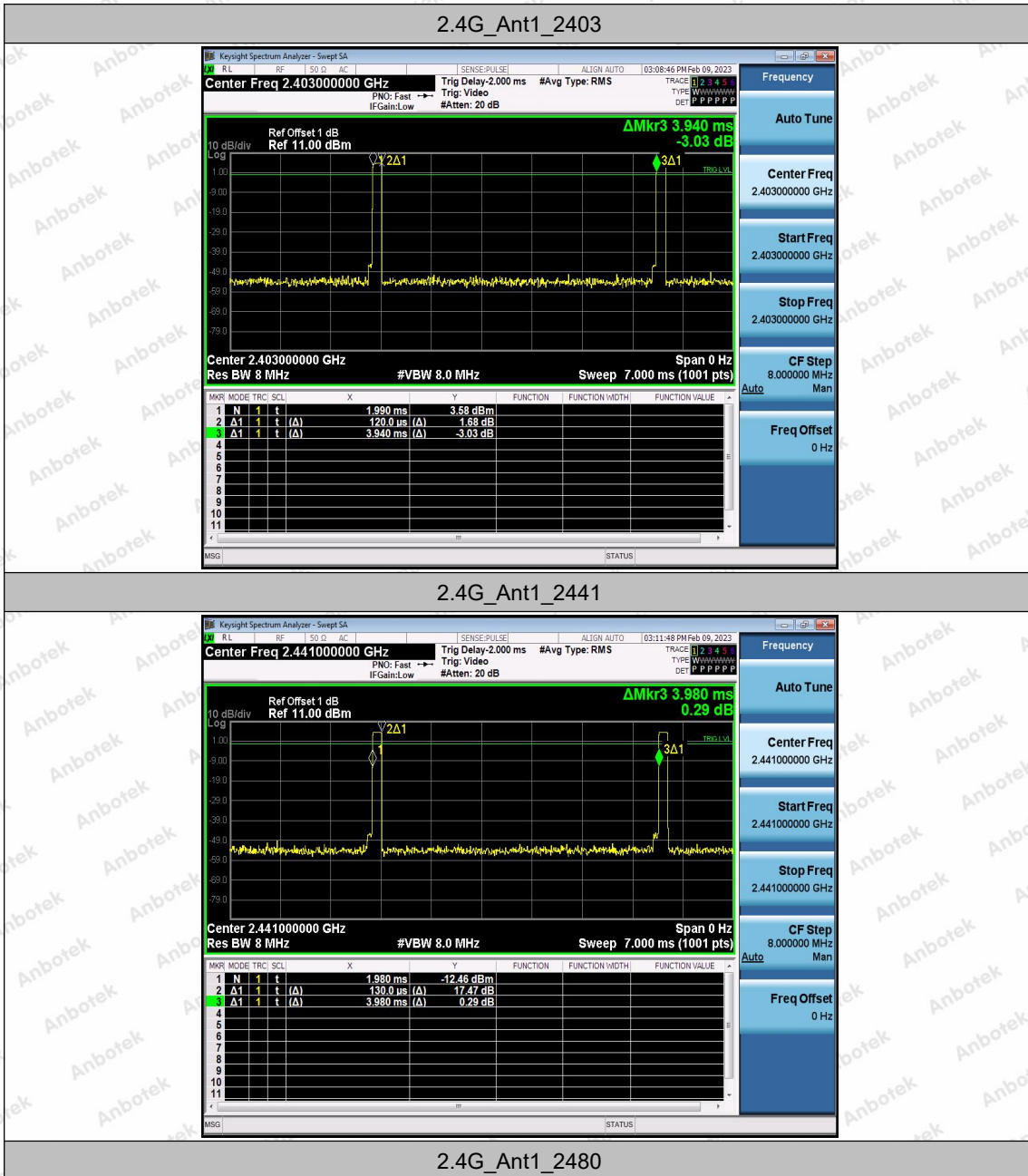
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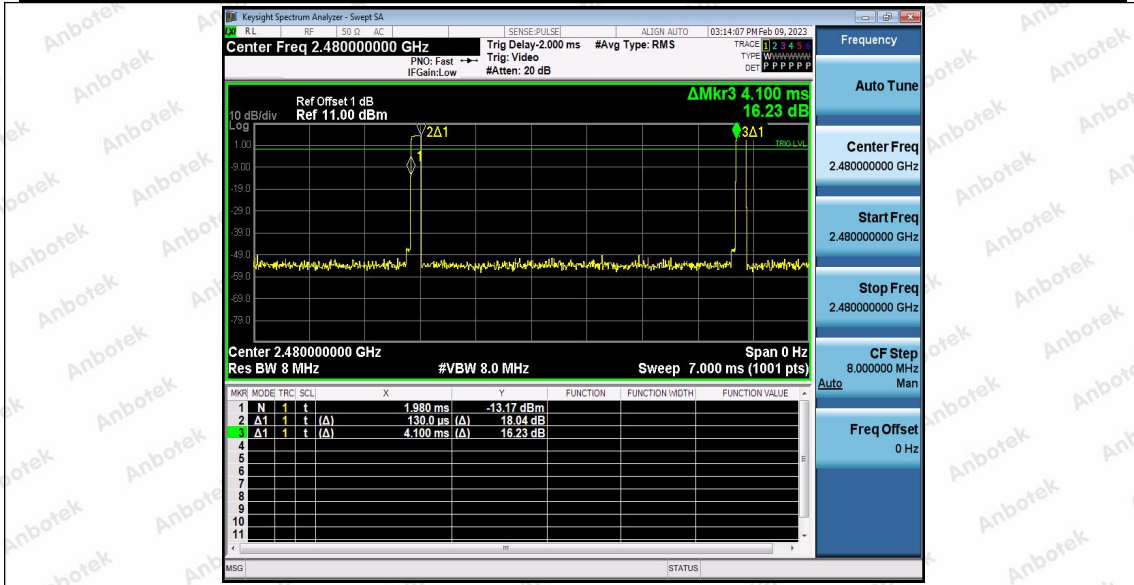


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