

Appendix Test Data

Report No.:	18220WC20215101	Test Sample No.:	1-2-2
Start Test Date:	2022.9.13	Finish Test Date:	2022.9.22
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3C°	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	2408	2.076	2406.968	2409.044
		2440	2.080	2438.970	2441.050
		2474	2.067	2472.971	2475.038



Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2440



2.4G_Ant1_2474

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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	2408	2.1784	2406.8935	2409.0729
		2440	2.1174	2438.9673	2441.0768
		2474	2.1810	2472.9042	2475.0682



Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2440



2.4G_Ant1_2474

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Appendix C: Maximum conducted output power

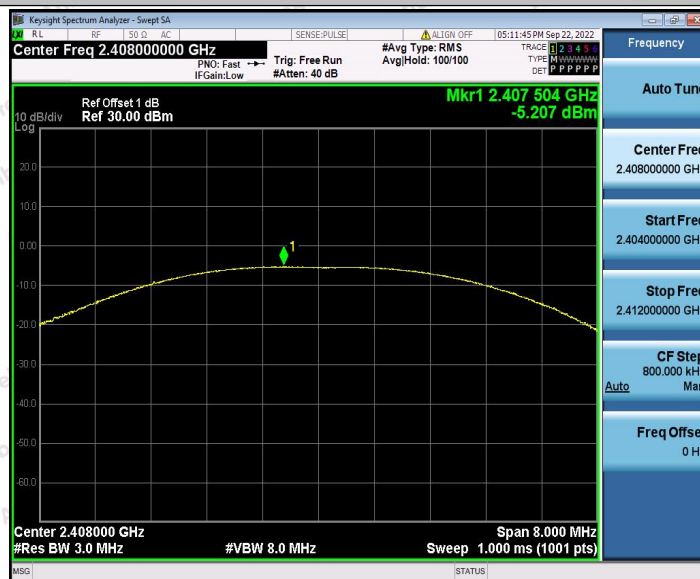
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2408	-5.21	≤20.97	PASS
		2440	-5.41	≤20.97	PASS
		2474	-5.38	≤20.97	PASS

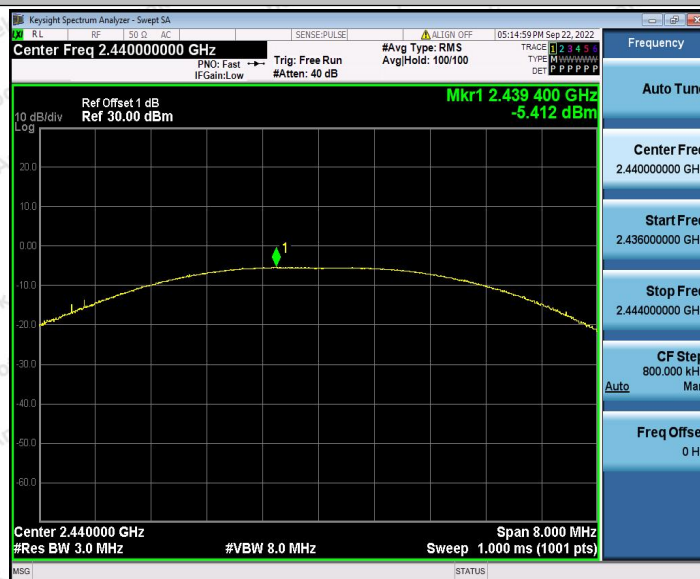


Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2440



2.4G_Ant1_2474

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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	1.965	≥1.387	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	0.571	49	0.028	≤0.4	PASS



Test Graphs



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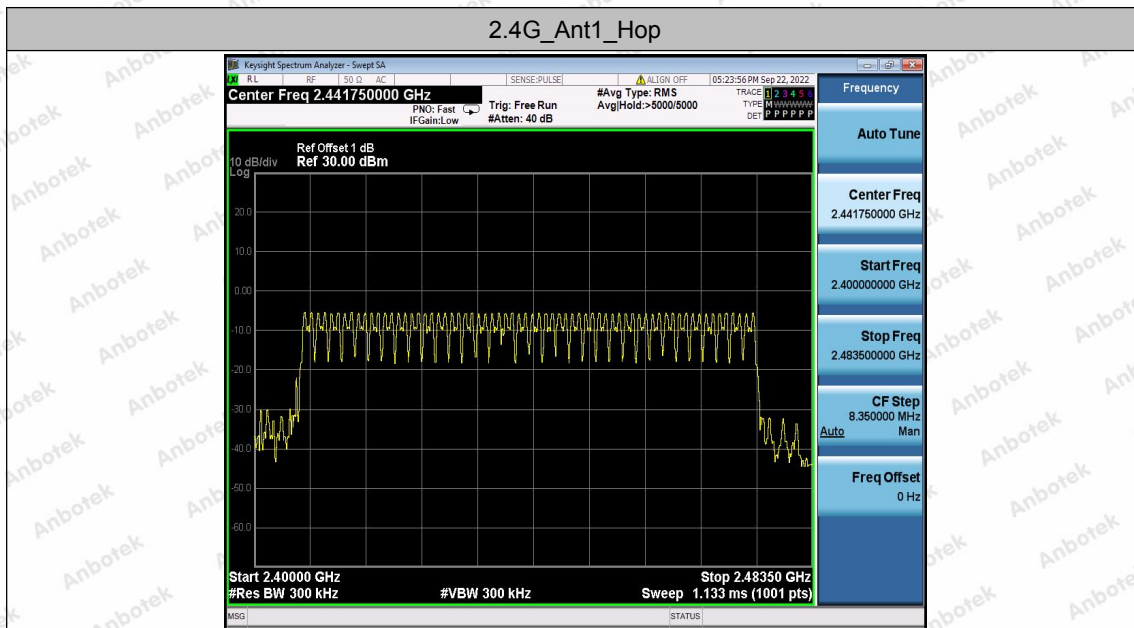
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	34	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

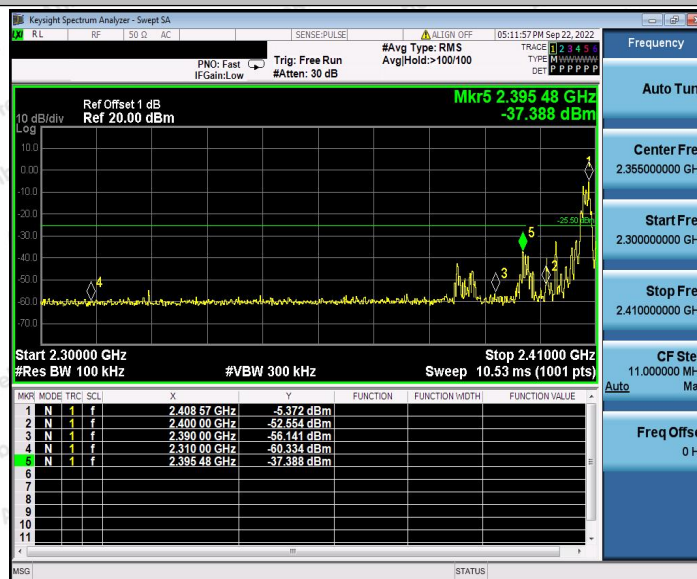
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2408	-5.50	-37.39	≤-25.5	PASS
		High	2474	-5.66	-47.63	≤-25.66	PASS
		Low	Hop_2402	-8.04	-41.95	≤-28.04	PASS
		High	Hop_2480	-5.78	-56.11	≤-25.78	PASS

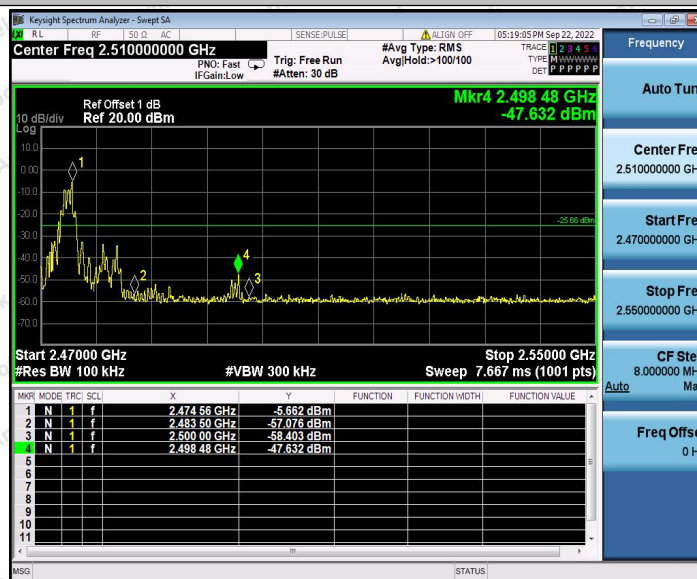


Test Graphs

2.4G_Ant1_Low_2408



2.4G_Ant1_High_2474



2.4G_Ant1_Low_Hop_2402

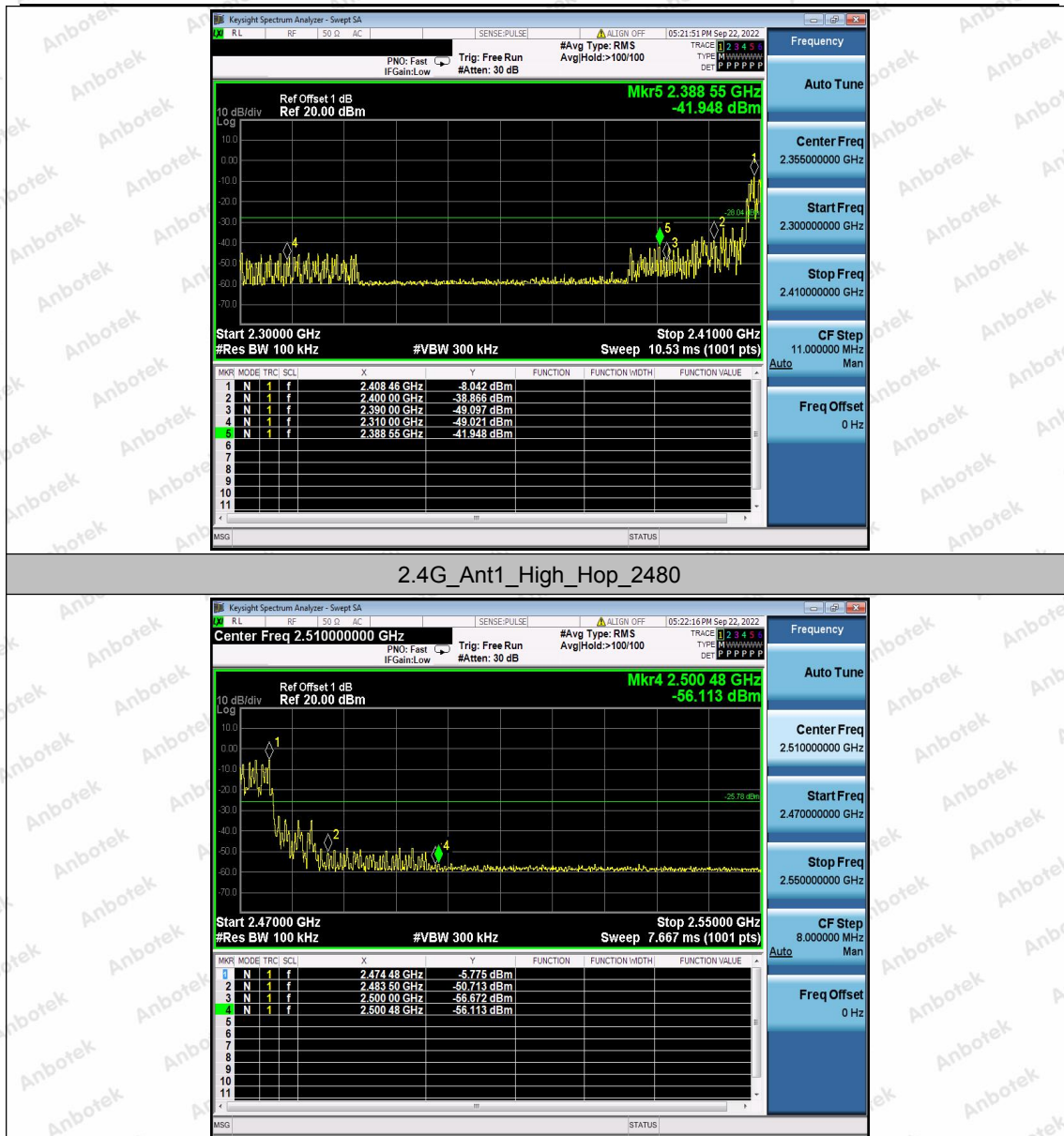
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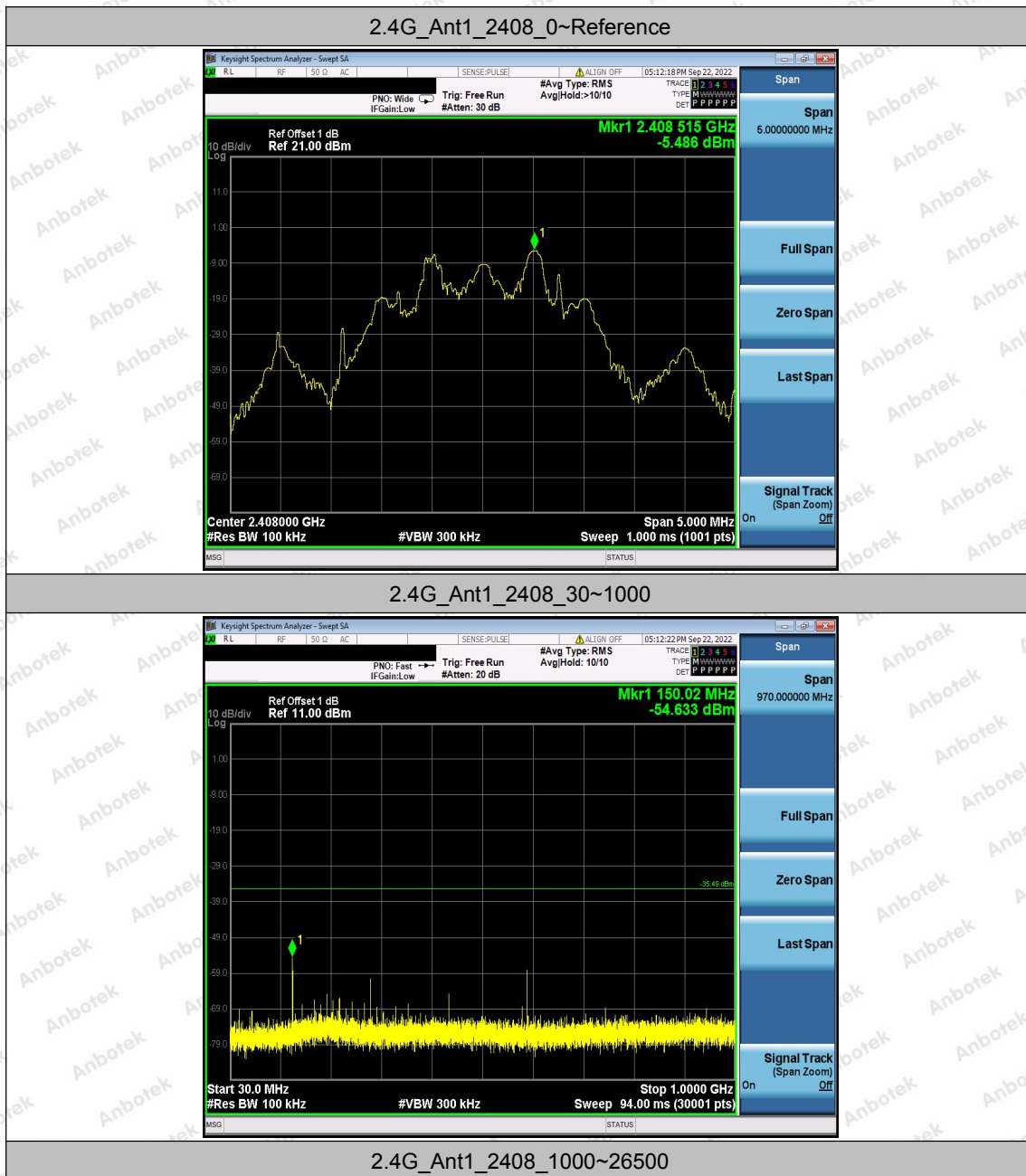
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2408	Reference	-5.49	-5.49	---	PASS
			30~1000	-5.49	-54.63	≤-35.49	PASS
			1000~26500	-5.49	-51.05	≤-35.49	PASS
		2440	Reference	-5.73	-5.73	---	PASS
			30~1000	-5.73	-54.52	≤-35.73	PASS
			1000~26500	-5.73	-46.89	≤-35.73	PASS
		2474	Reference	-5.62	-5.62	---	PASS
			30~1000	-5.62	-54.69	≤-35.62	PASS
			1000~26500	-5.62	-49.33	≤-35.62	PASS



Test Graphs



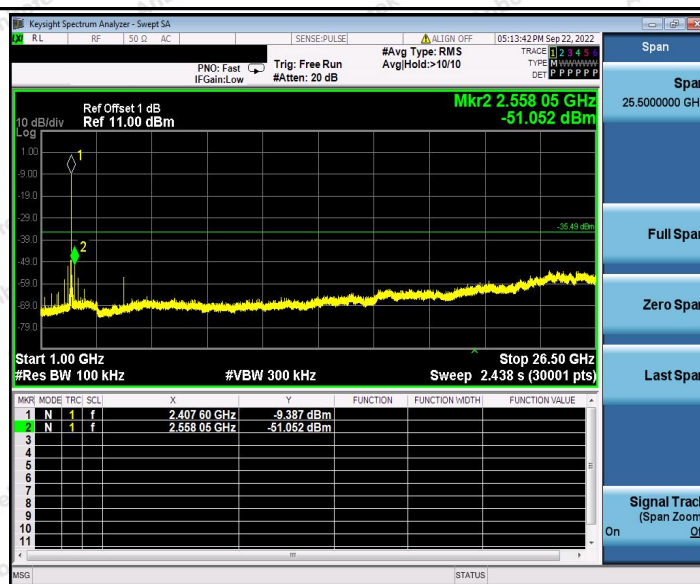
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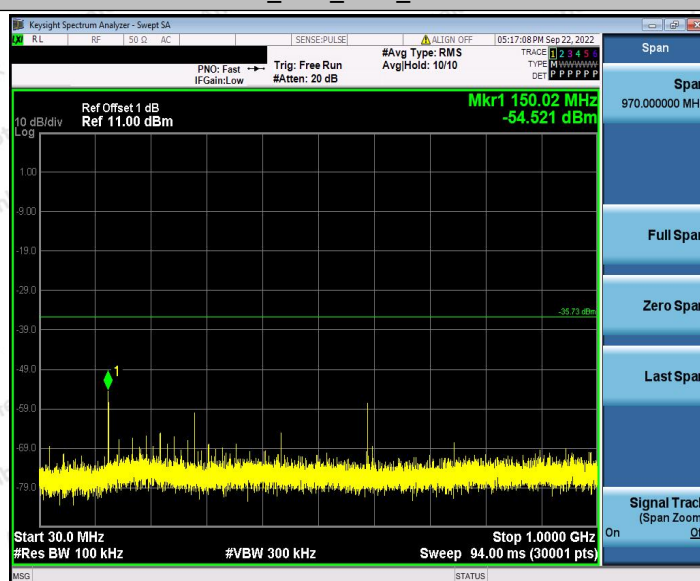




2.4G Ant1 2440 0~Reference



2.4G	Ant1	2440	30~1000
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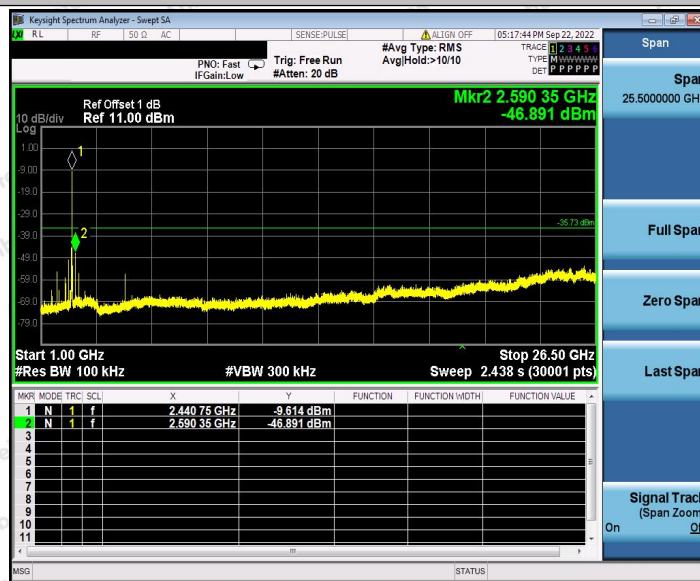
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2.4G_Ant1_2440_1000~26500



2.4G_Ant1_2474_0~Reference



2.4G_Ant1_2474_30~1000

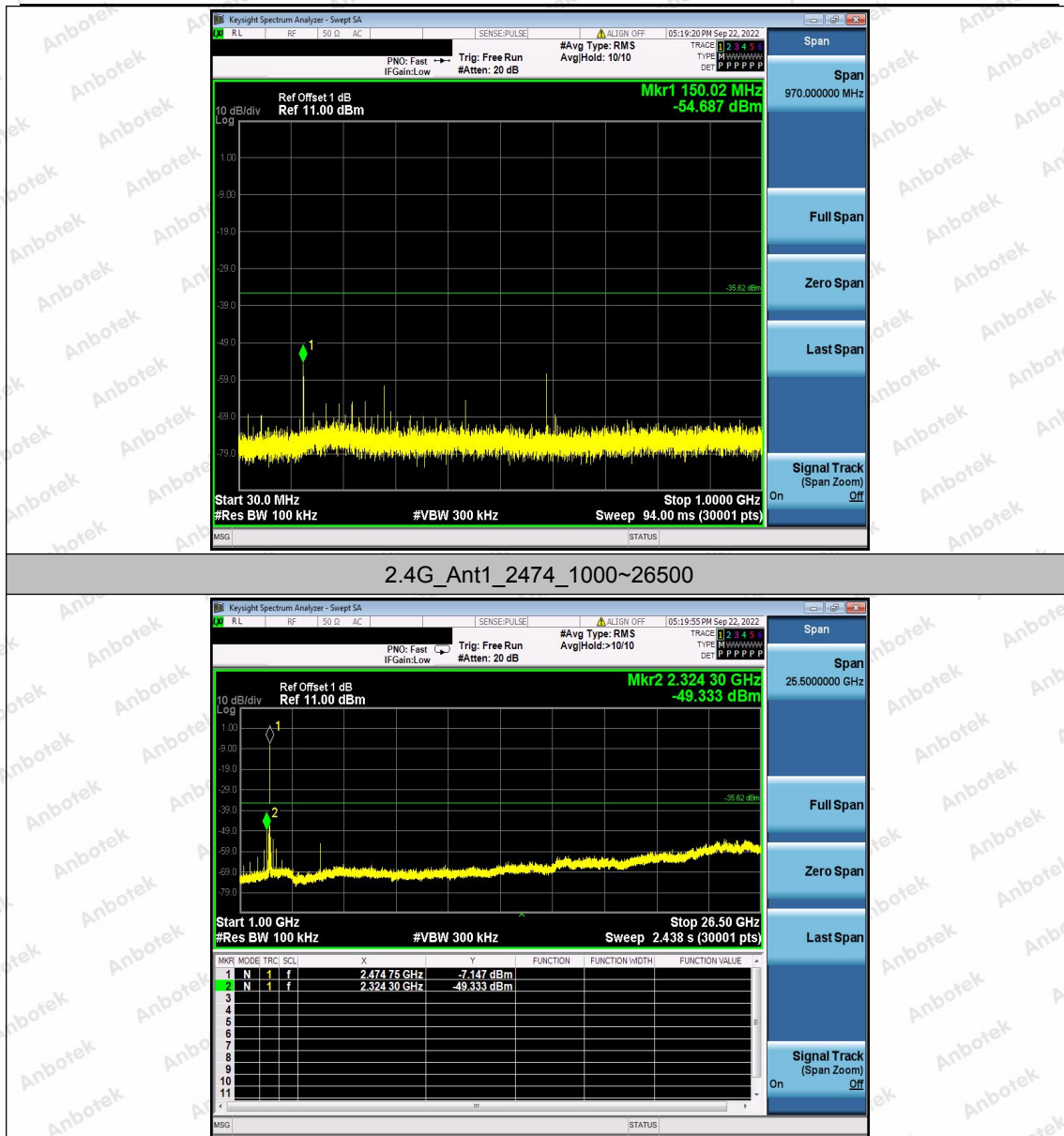
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2408	7.91	63.98	12.36	9.08
		2440	7.98	64.05	12.46	9.04
		2474	7.98	64.05	12.46	9.04

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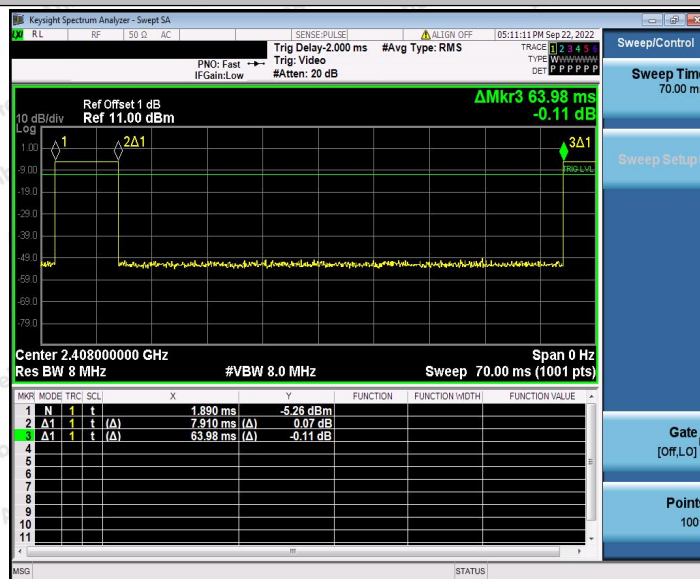


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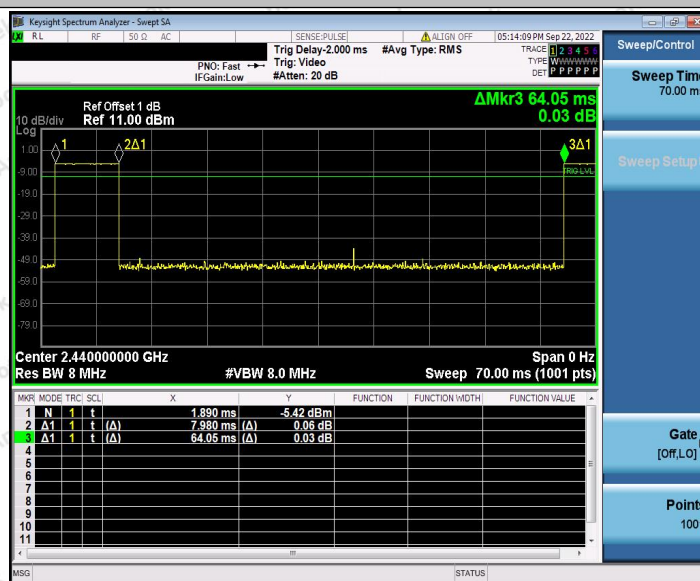


Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2440



2.4G_Ant1_2474

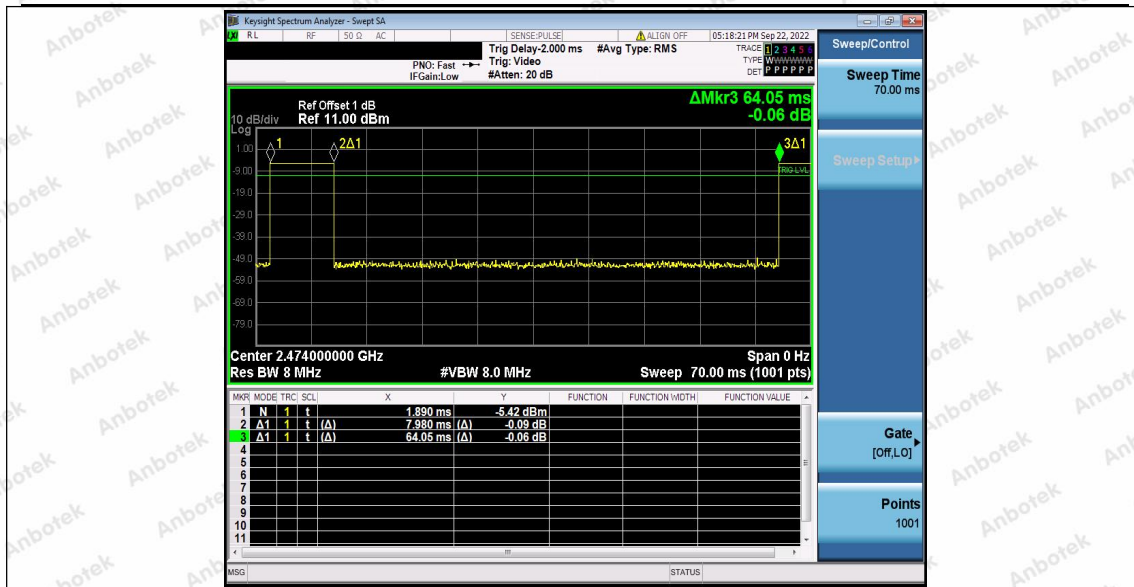
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