

Appendix Test Data

Report No.:	18220WC20267801	Test Sample No.:	1-2-2
Start Test Date:	2022.11.22	Finish Test Date:	2022.12.21
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	23.3℃	Relative Humidity:	40 %
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	2422	0.900	2421.421	2422.321	---	---
		2440	1.212	2439.430	2440.642	---	---
		2464	1.170	2463.475	2464.645	---	---



Test Graphs

2.4G_Ant1_2422



2.4G_Ant1_2440



2.4G_Ant1_2464

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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	2422	0.92329	2421.4241	2422.3473	---	---
		2440	0.91398	2439.4290	2440.3429	---	---
		2464	1.1051	2463.4668	2464.5719	---	---



Test Graphs

2.4G_Ant1_2422



2.4G_Ant1_2440



2.4G_Ant1_2464

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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	2422	16.68	≤30	PASS
		2440	17.87	≤30	PASS
		2464	18.86	≤30	PASS



Test Graphs

2.4G_Ant1_2422



2.4G_Ant1_2440



2.4G_Ant1_2464

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	3.005	≥0.025	PASS

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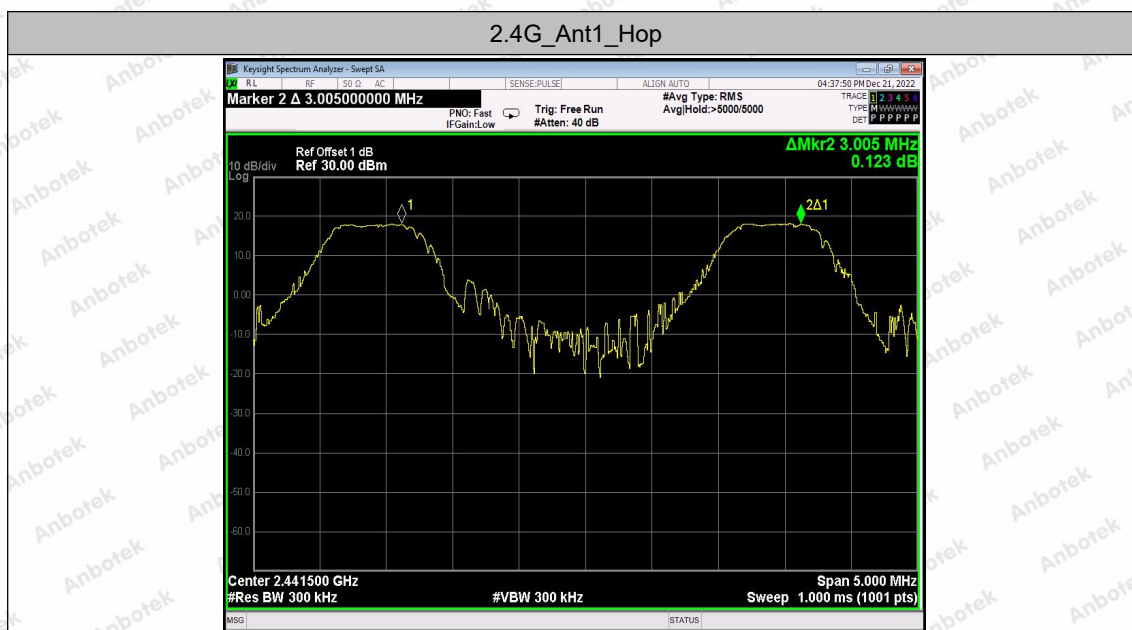
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Test Graphs



Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.333	60	0.02	≤0.4	PASS



Test Graphs



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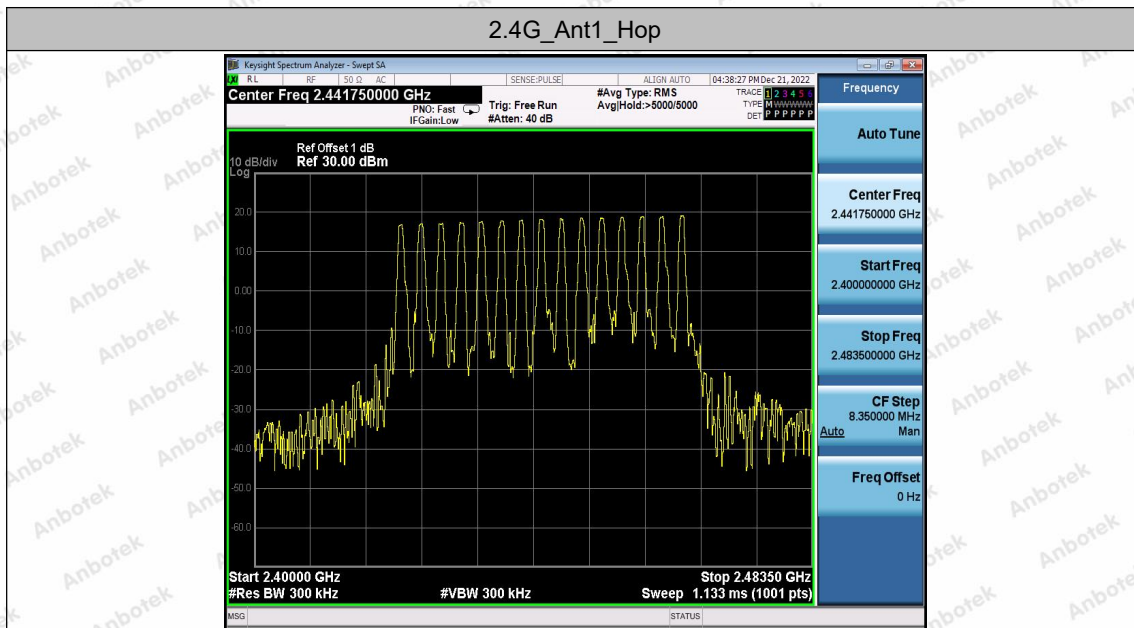
Appendix F: Number of hopping channels

Test Result

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



Test Graphs



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Appendix G: Band edge measurements

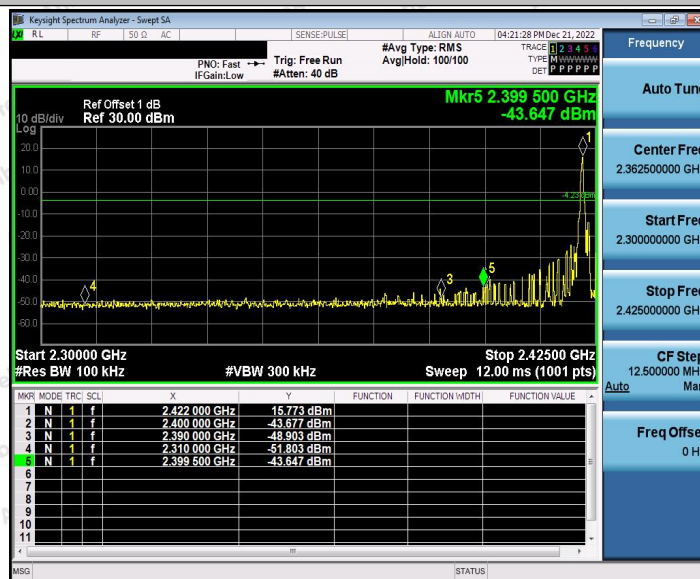
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2422	15.77	-43.65	≤ -4.23	PASS
		High	2464	18.75	-38.38	≤ -1.25	PASS
		Low	Hop_2402	15.31	-41.31	≤ -4.69	PASS
		High	Hop_2480	17.88	-43.26	≤ -2.12	PASS

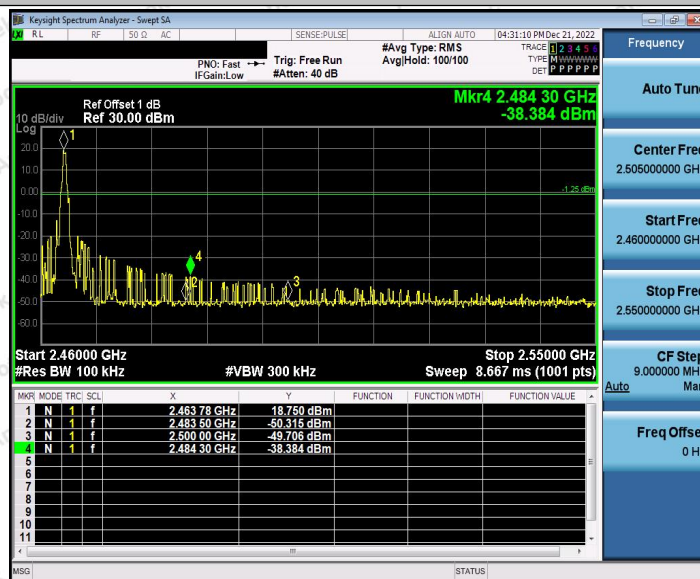


Test Graphs

2.4G_Ant1_Low_2422



2.4G_Ant1_High_2464



2.4G_Ant1_Low_Hop_2402

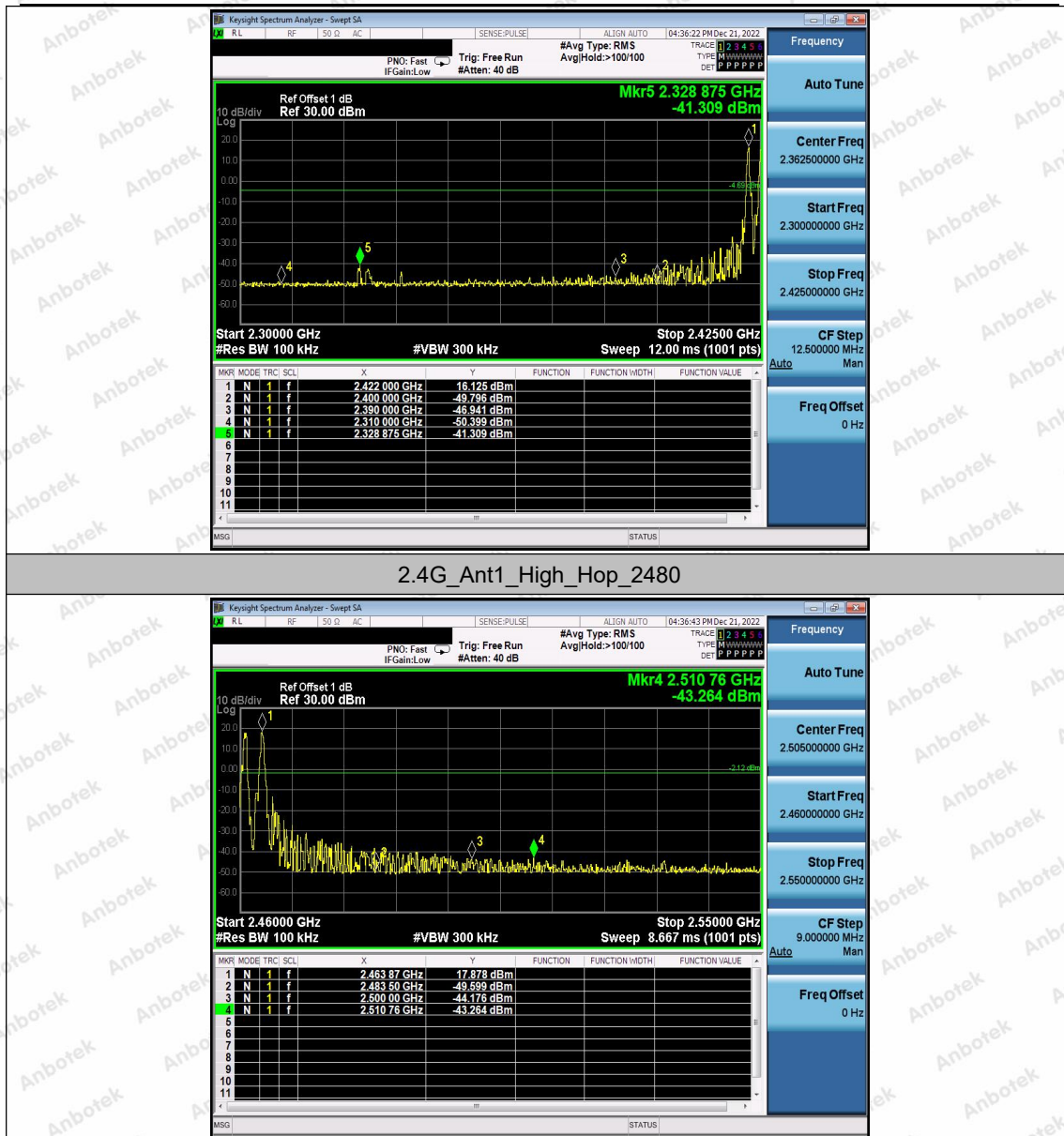
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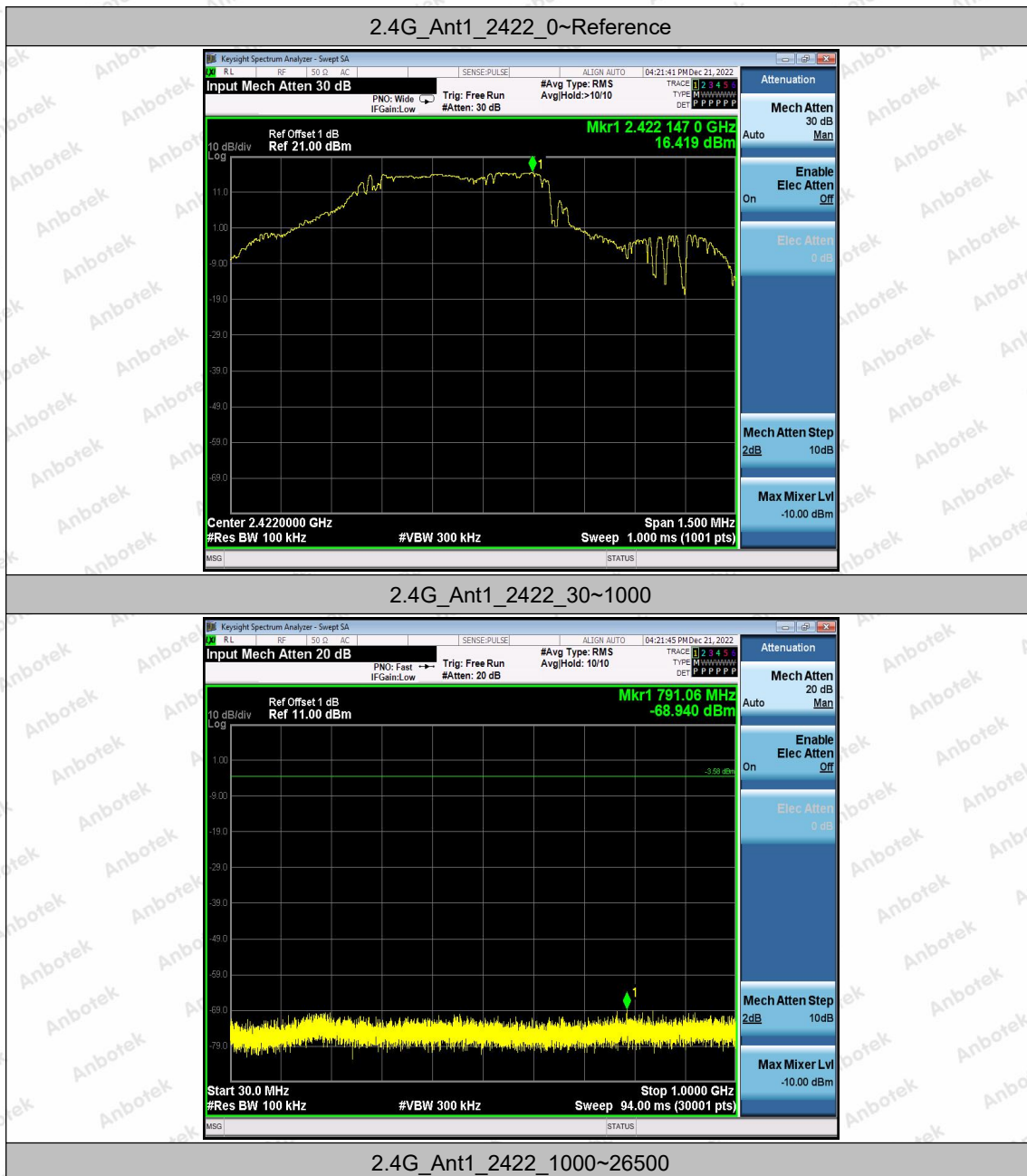
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2422	Reference	16.42	16.42	---	PASS
			30~1000	16.42	-68.94	≤-3.58	PASS
			1000~26500	16.42	-23.82	≤-3.58	PASS
		2440	Reference	17.66	17.66	---	PASS
			30~1000	17.66	-68.14	≤-2.34	PASS
			1000~26500	17.66	-22.43	≤-2.34	PASS
		2464	Reference	17.90	17.90	---	PASS
			30~1000	17.90	-68.71	≤-2.1	PASS
			1000~26500	17.90	-31.21	≤-2.1	PASS



Test Graphs



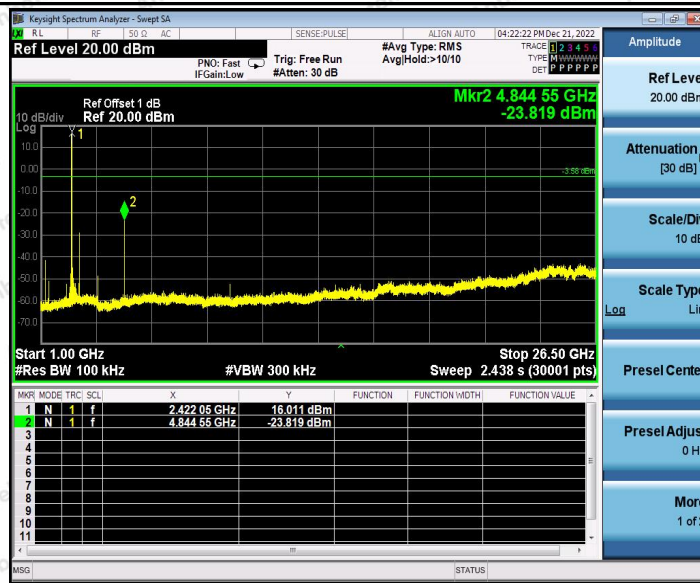
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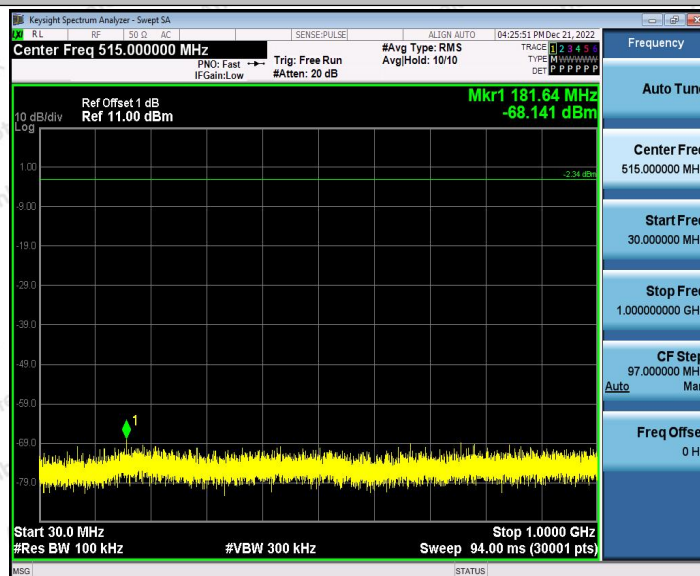




2.4G_Ant1_2440_0~Reference



2.4G_Ant1_2440_30~1000



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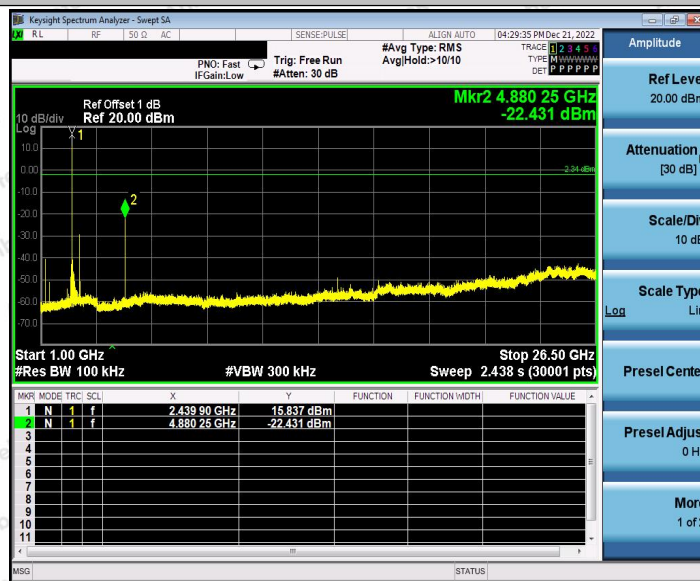
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2.4G_Ant1_2440_1000~26500



2.4G_Ant1_2464_0~Reference



2.4G_Ant1_2464_30~1000

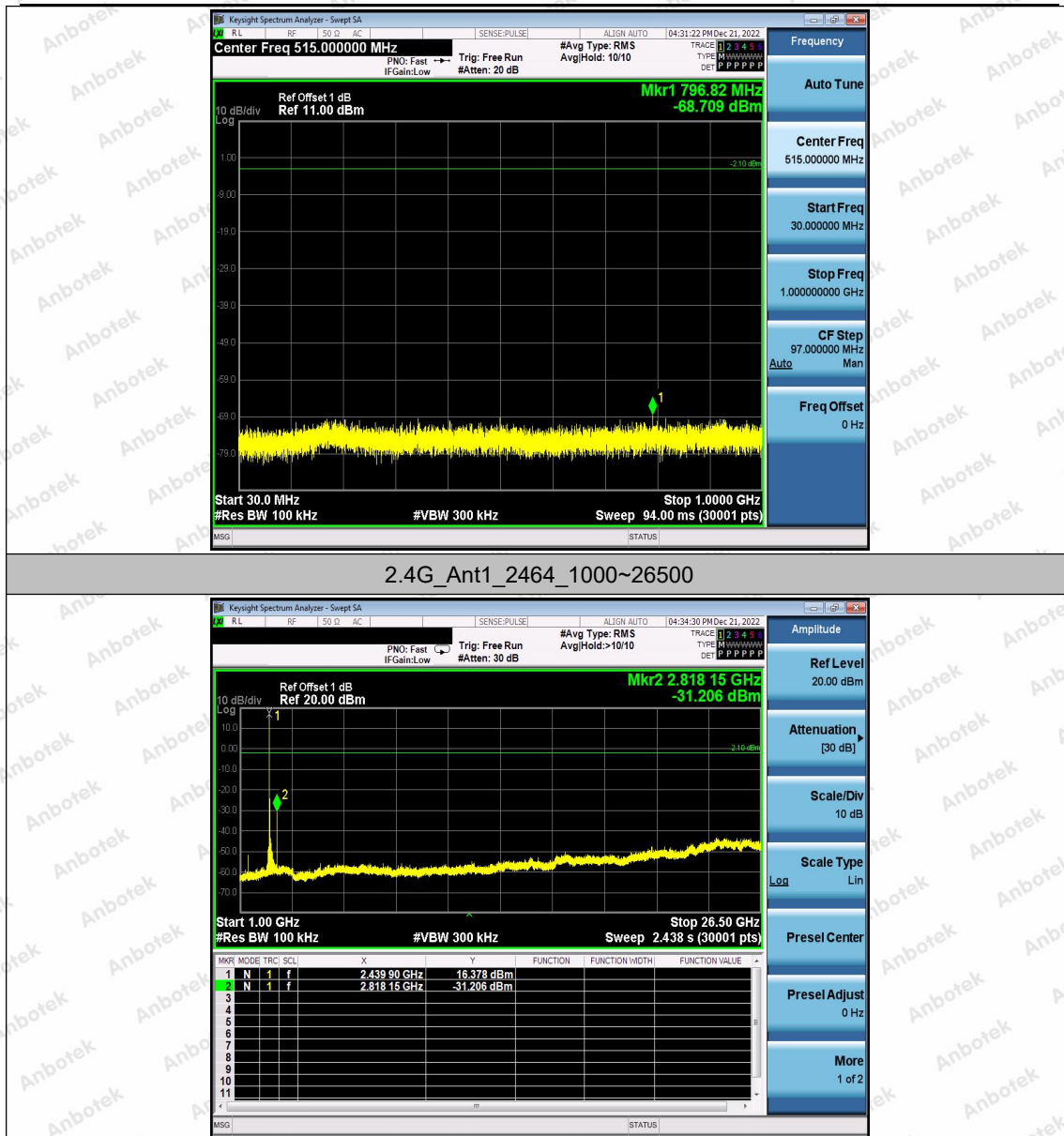
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2422	0.32	6.83	4.69	13.29
		2440	0.34	6.84	4.97	13.04
		2464	0.34	6.85	4.96	13.05

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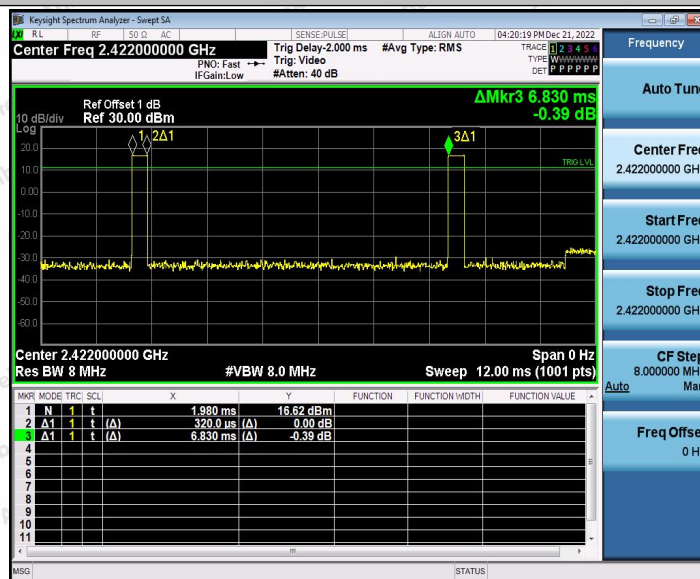


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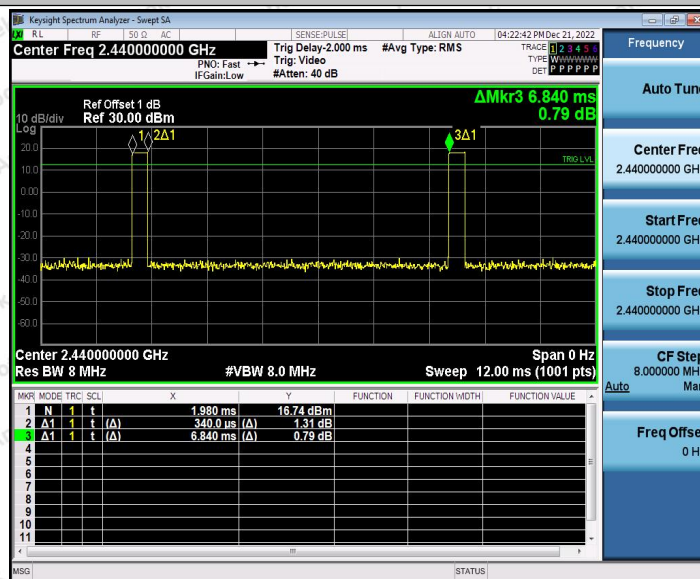


Test Graphs

2.4G_Ant1_2422



2.4G_Ant1_2440



2.4G_Ant1_2464

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