

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	2403.5	1.035	2402.981	2404.016	---	---
		2438	1.047	2437.478	2438.525	---	---
		2473	1.056	2472.469	2473.525	---	---



Test Graphs

2.4G_Ant1_2403.5



2.4G_Ant1_2438



2.4G_Ant1_2473

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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	2403.5	1.0110	2402.9959	2404.0069	---	---
		2438	1.0155	2437.4938	2438.5093	---	---
		2473	1.0222	2472.4902	2473.5124	---	---



Test Graphs

2.4G_Ant1_2403.5



2.4G_Ant1_2438



2.4G_Ant1_2473

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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	21.46	≤30	PASS
		2438	21.36	≤30	PASS
		2473	21.42	≤30	PASS



Test Graphs

2.4G_Ant1_2403.5



2.4G_Ant1_2438



2.4G_Ant1_2473

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	5.00	≥0.025	PASS

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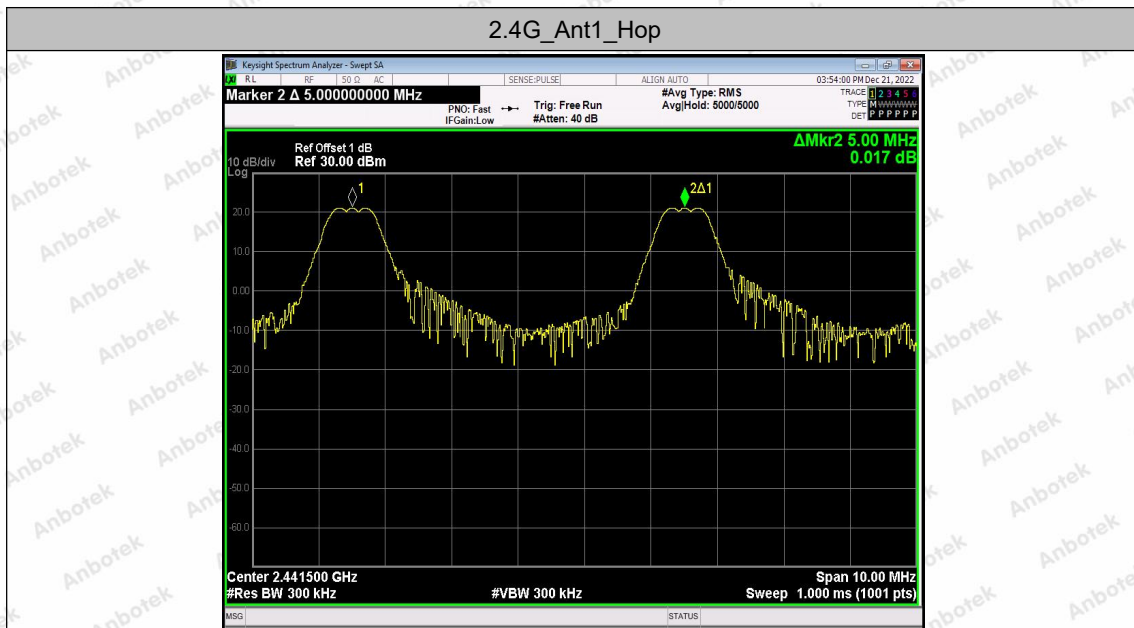
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Test Graphs



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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	0.557	265	0.148	≤0.4	PASS



Test Graphs



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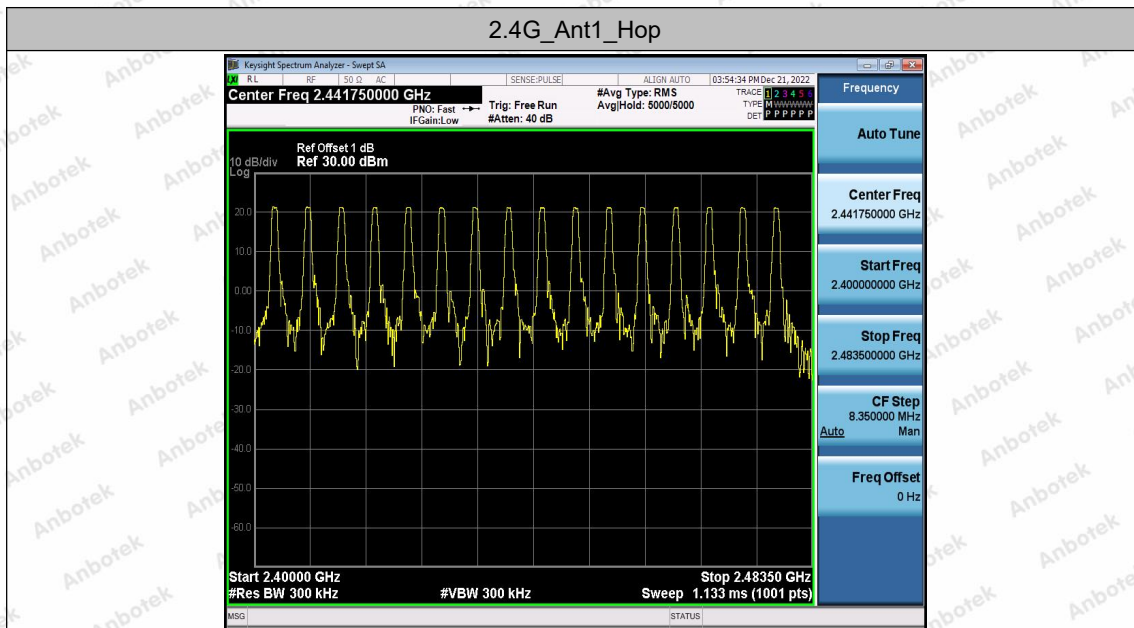
Appendix F: Number of hopping channels

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	2403.5	21.18	-21.58	≤1.18	PASS
		High	2473	21.13	-29.07	≤1.13	PASS
		Low	Hop_2402	20.11	-32.26	≤0.11	PASS
		High	Hop_2480	20.96	-37.13	≤0.96	PASS

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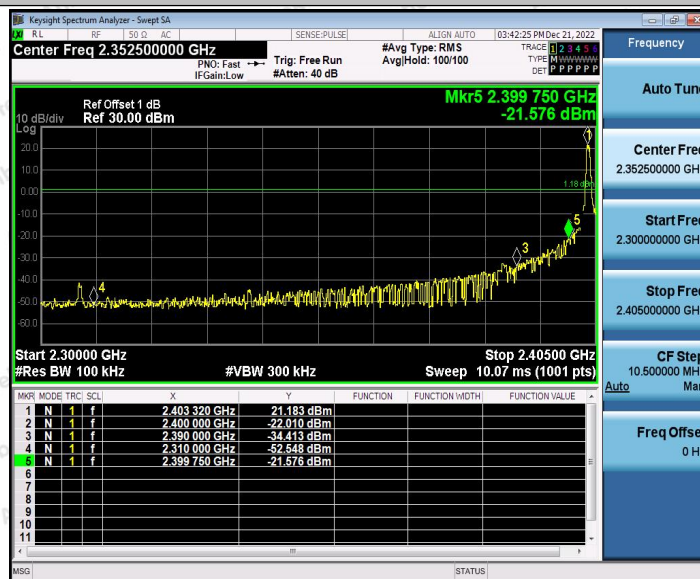


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Test Graphs

2.4G_Ant1_Low_2403.5



2.4G_Ant1_High_2473



2.4G_Ant1_Low_Hop_2402

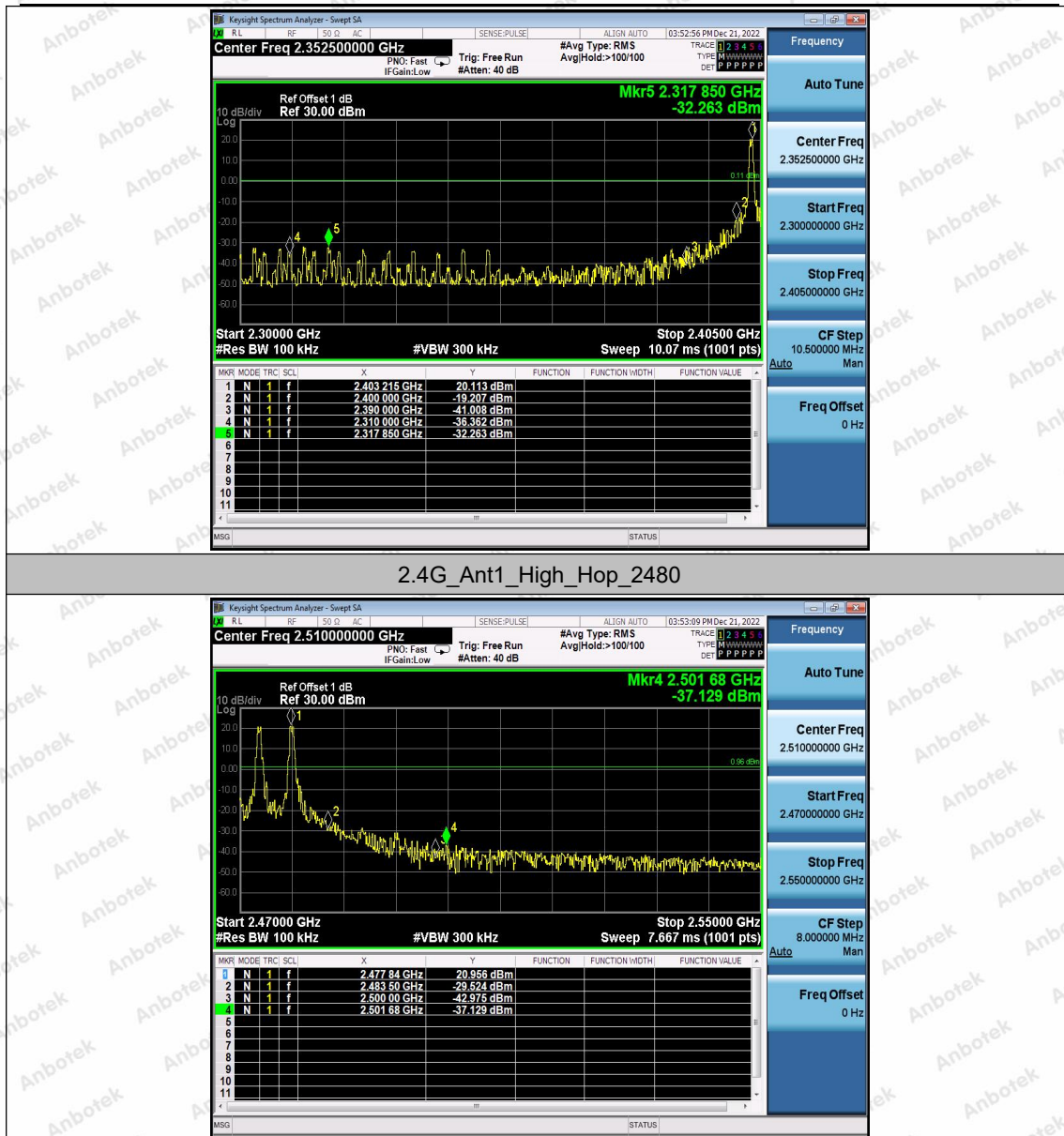
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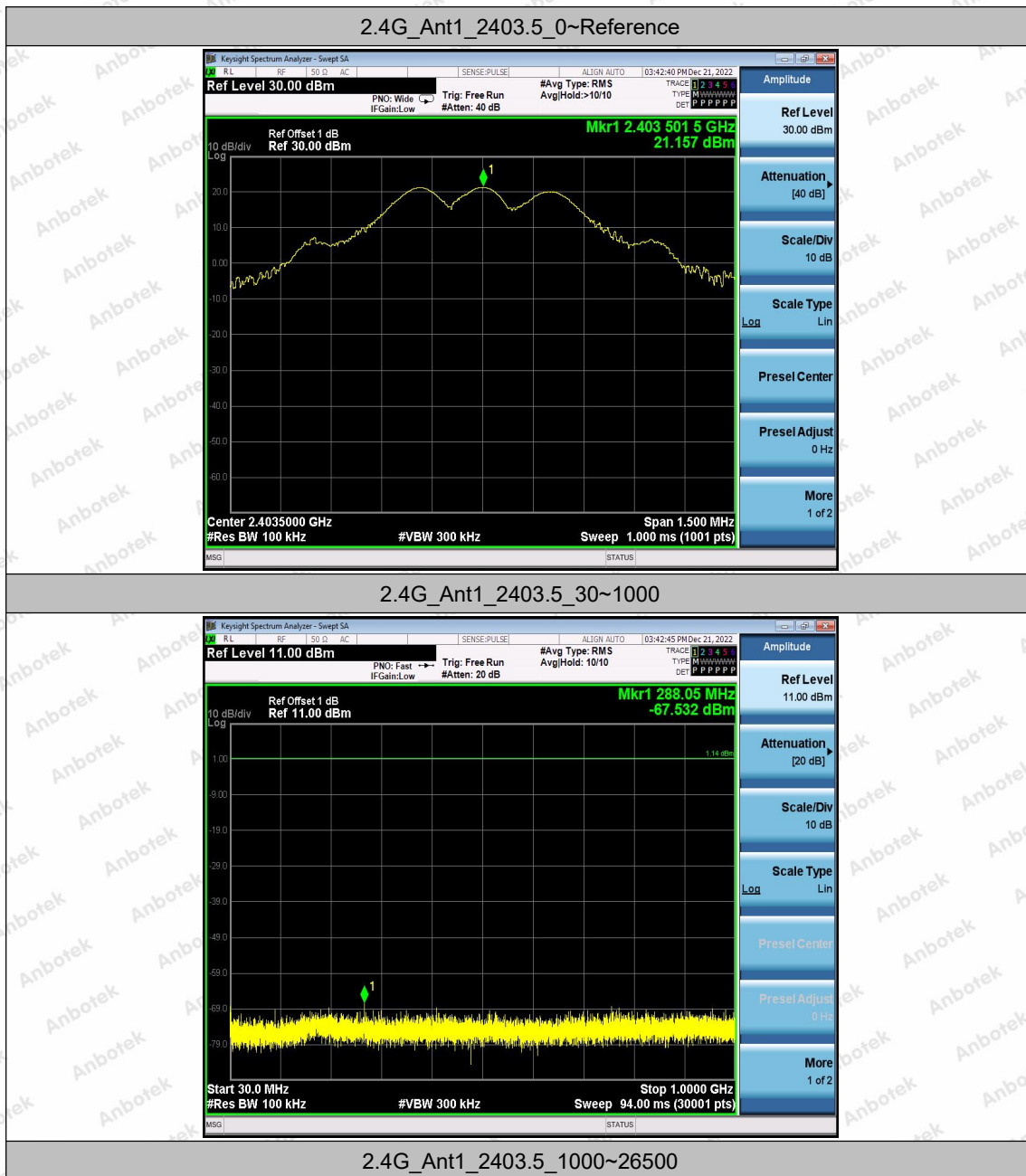
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403.5	Reference	21.14	21.14	---	PASS
			30~1000	21.14	-67.53	≤1.14	PASS
			1000~26500	21.14	-22.58	≤1.14	PASS
		2438	Reference	21.06	21.06	---	PASS
			30~1000	21.06	-67.49	≤1.06	PASS
			1000~26500	21.06	-25.2	≤1.06	PASS
		2473	Reference	21.07	21.07	---	PASS
			30~1000	21.07	-66.72	≤1.07	PASS
			1000~26500	21.07	-22.11	≤1.07	PASS



Test Graphs



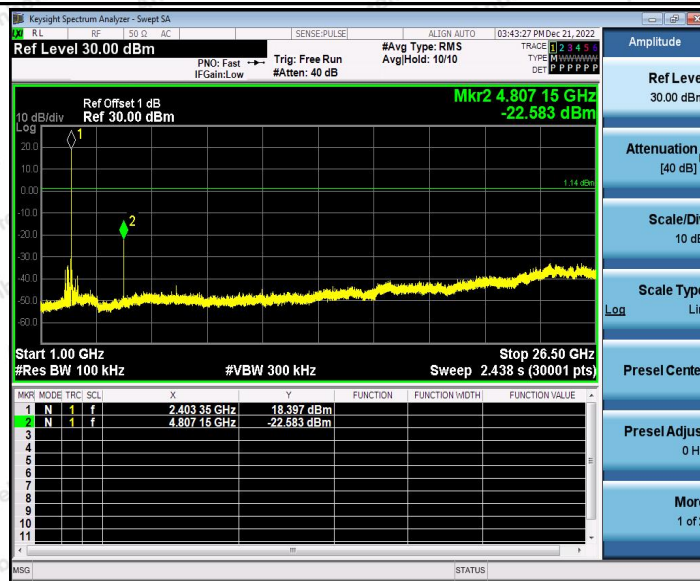
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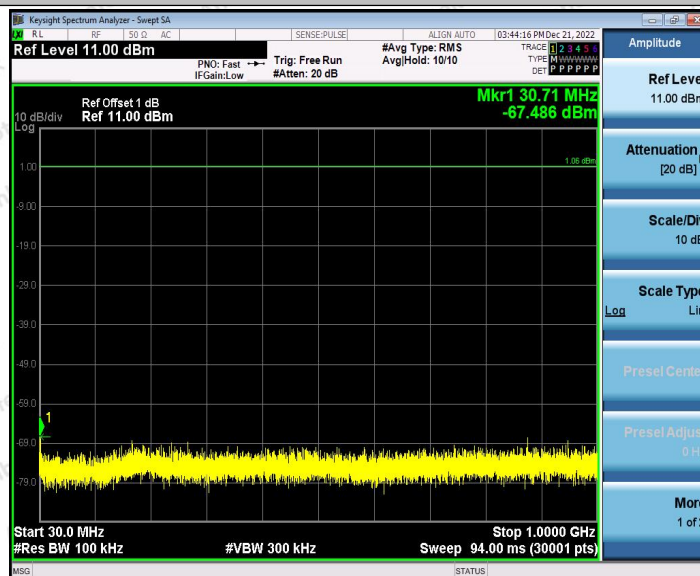




2.4G_Ant1_2438_0~Reference



2.4G_Ant1_2438_30~1000



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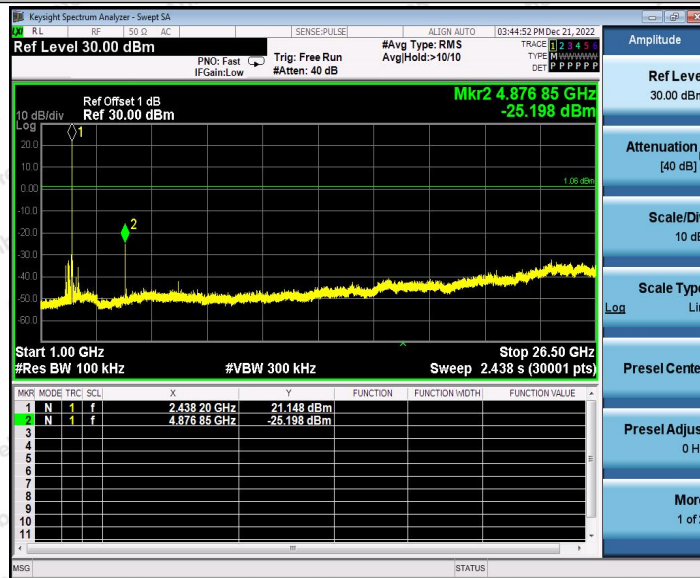
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2.4G_Ant1_2438_1000~26500



2.4G_Ant1_2473_0~Reference



2.4G_Ant1_2473_30~1000

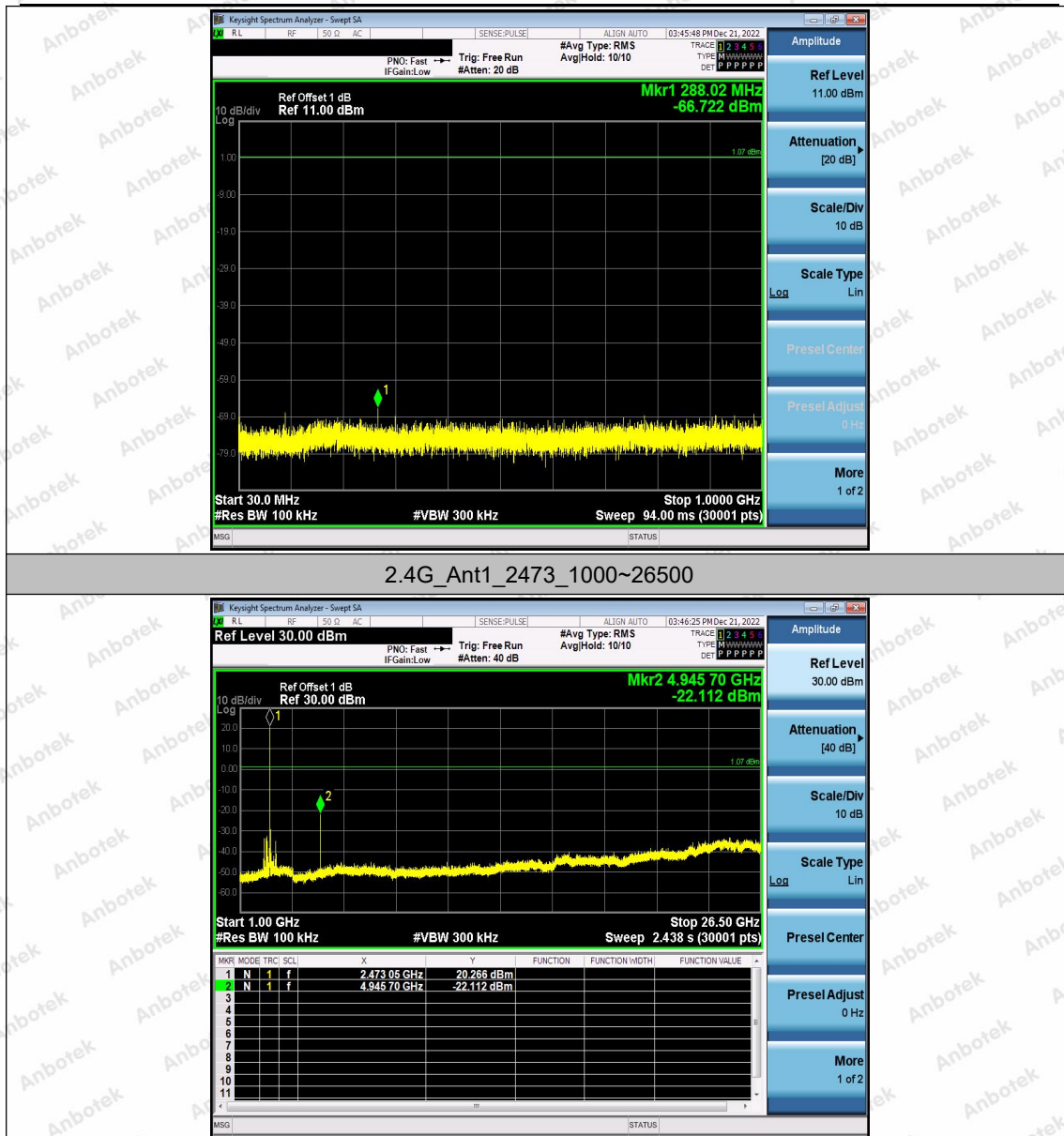
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Appendix I: Duty Cycle

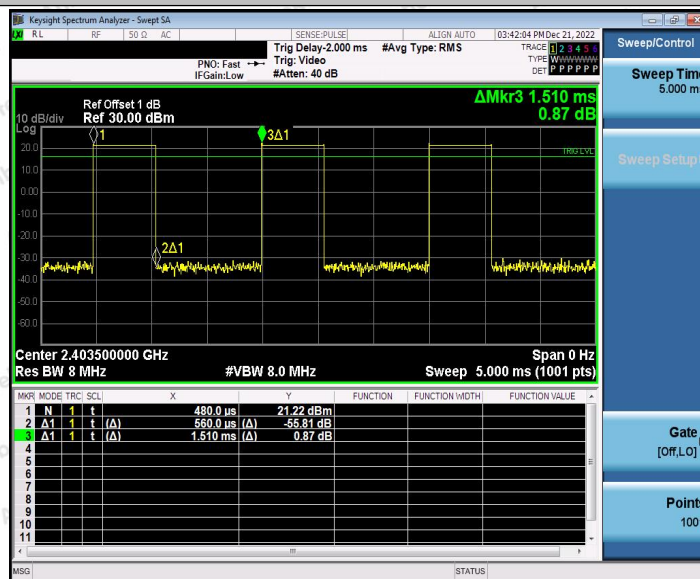
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403.5	0.56	1.51	37.09	4.31
		2438	0.56	1.51	37.09	4.31
		2473	0.56	1.51	37.09	4.31

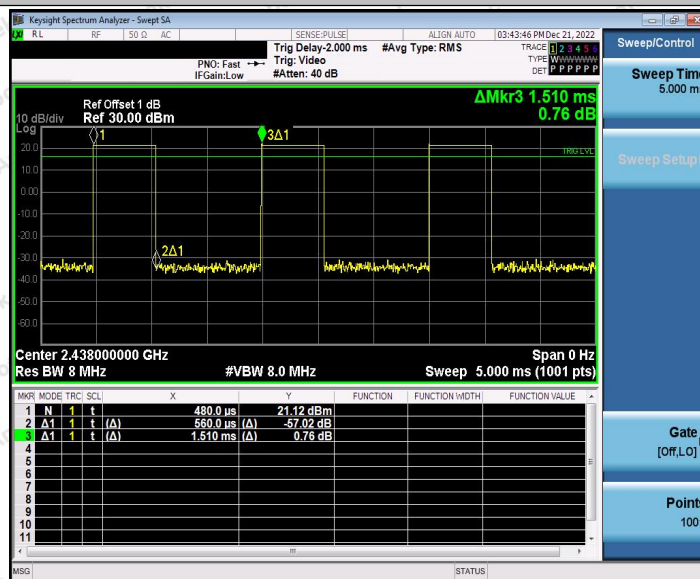


Test Graphs

2.4G_Ant1_2403.5



2.4G_Ant1_2438



2.4G_Ant1_2473

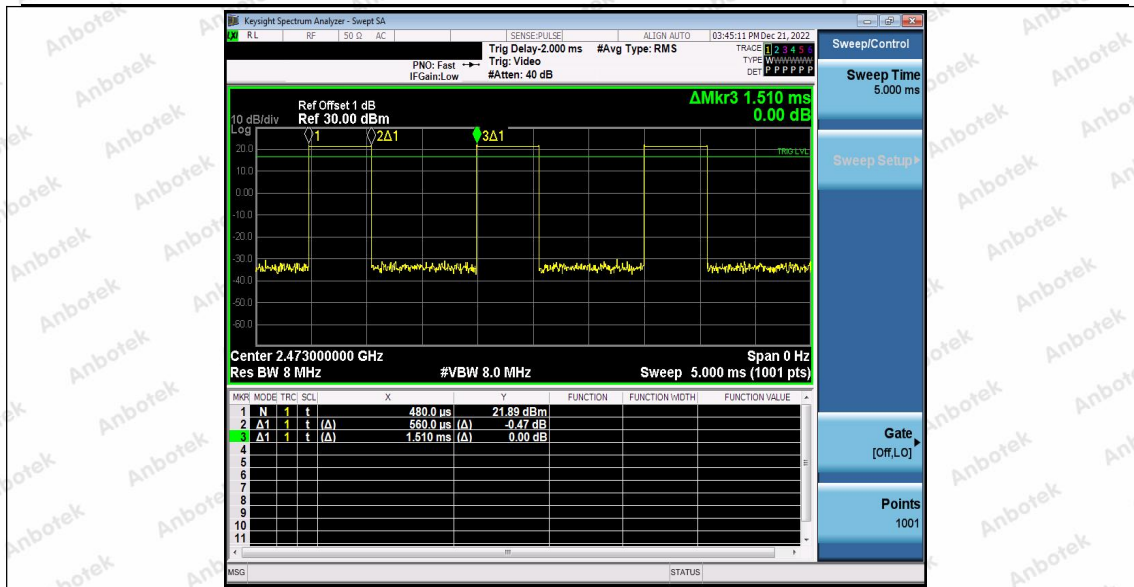
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