

Appendix Test Data

Report No.:	18220WC20288301	Test Sample No.:	1-2-2
Start Test Date:	2022.12.19	Finish Test Date:	2022.12.24
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	23.3℃	Relative Humidity:	35 %
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	2402	1.038	2401.469	2402.507
		2441	1.014	2440.487	2441.501
		2480	1.017	2479.490	2480.507



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



2.4G_Ant1_2480

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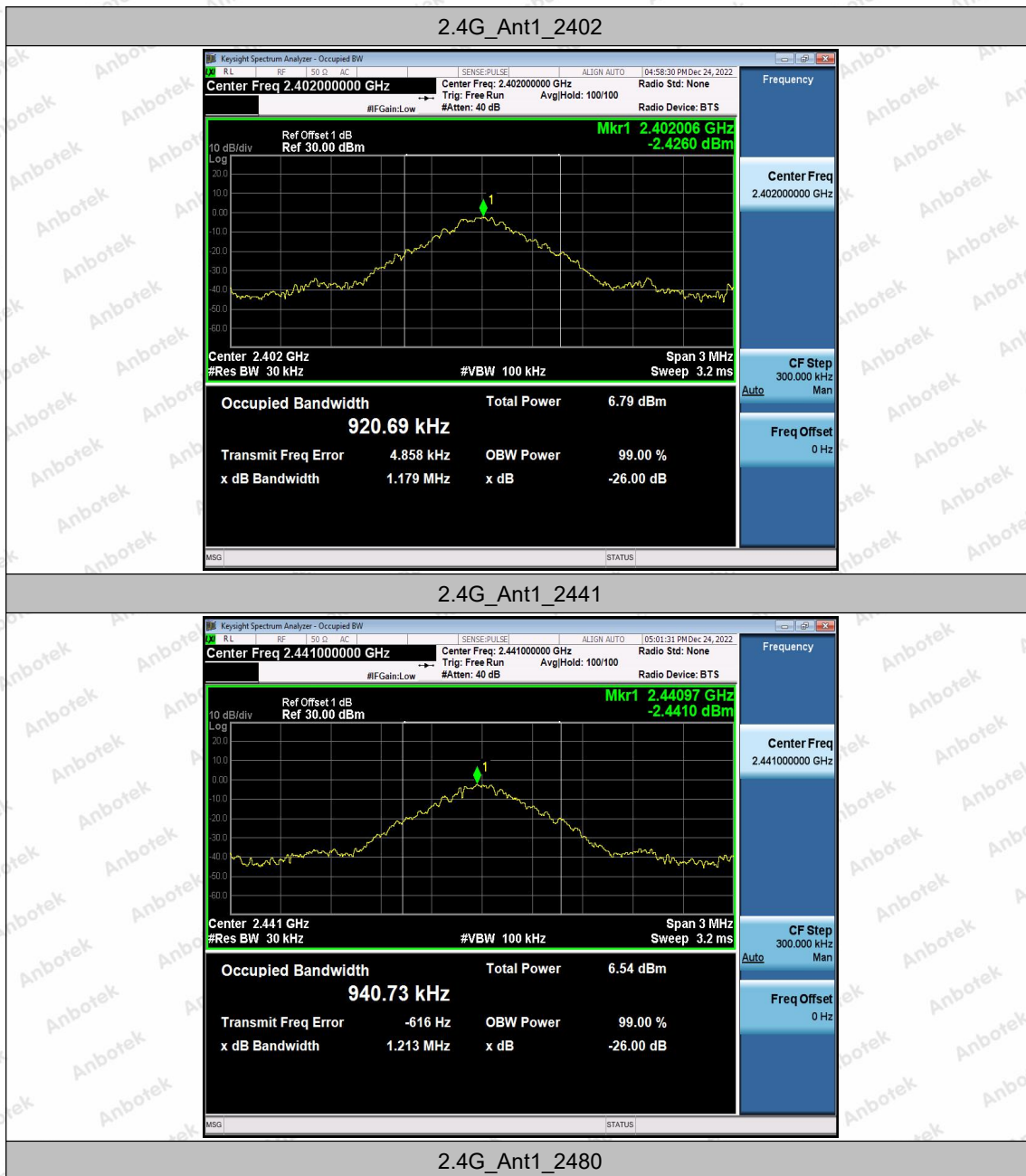
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2402	0.92069	2401.5445	2402.4652
		2441	0.94073	2440.5290	2441.4697
		2480	0.93182	2479.5311	2480.4629



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	2402	1.14	≤30	PASS
		2441	1.13	≤30	PASS
		2480	0.79	≤30	PASS



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



2.4G_Ant1_2480

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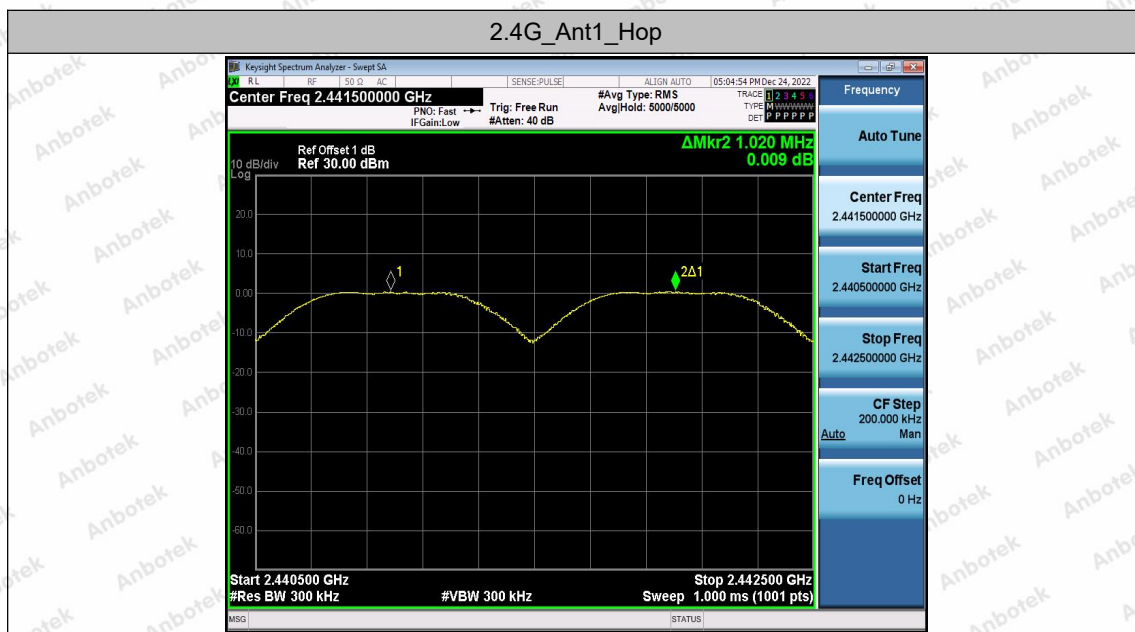


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.02	≥0.692	PASS

Test Graphs

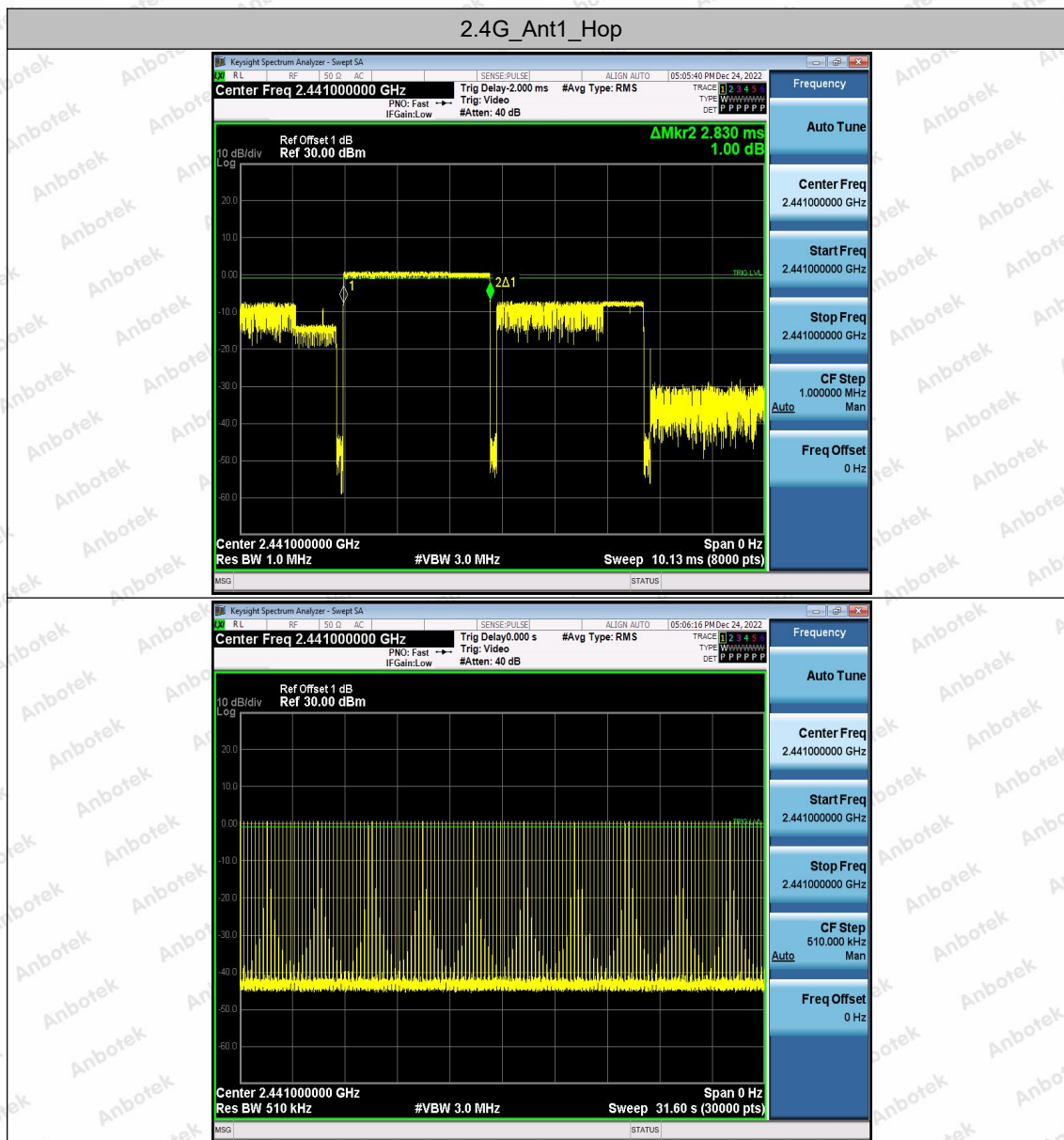


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	2.830	135	0.382	≤0.4	PASS

Test Graphs



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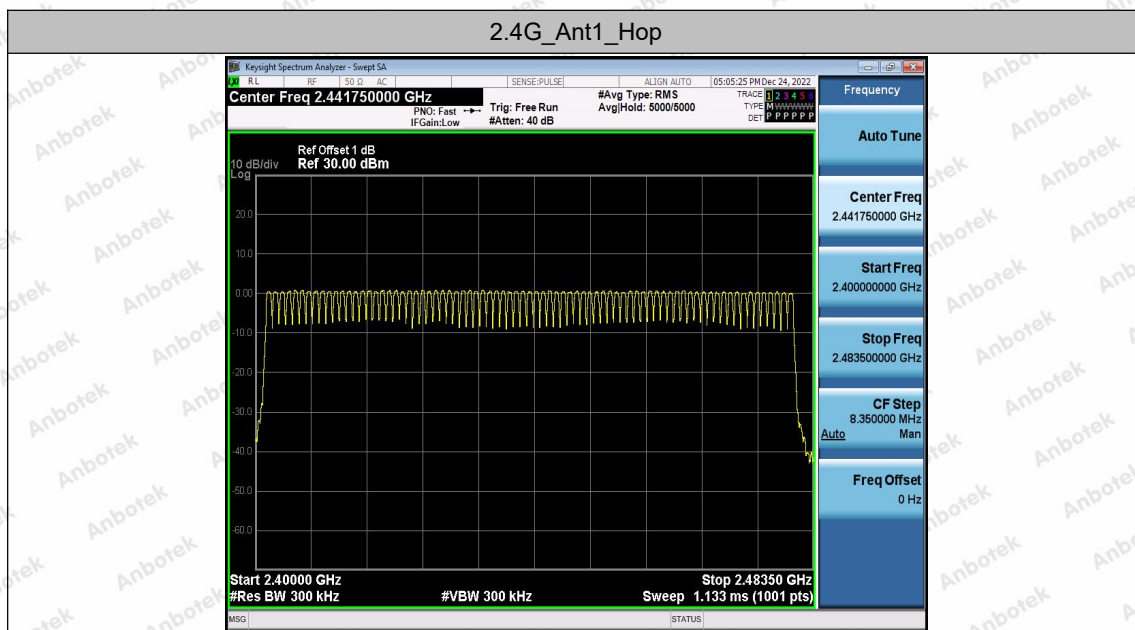


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	79	≥15	PASS

Test Graphs



Appendix G: Band edge measurements

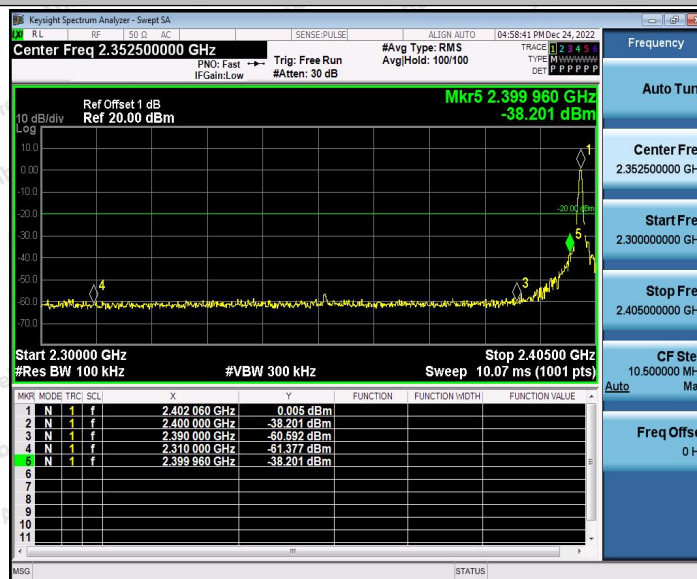
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402	0.01	-38.2	≤-20	PASS
		High	2441	-52.40	-52.4	≤-72.4	FAIL
			2480	-0.27	-42.65	≤-20.27	PASS
		Low	Hop_2402	-0.15	-57.1	≤-20.15	PASS
		High	Hop_2480	-0.24	-43.44	≤-20.24	PASS

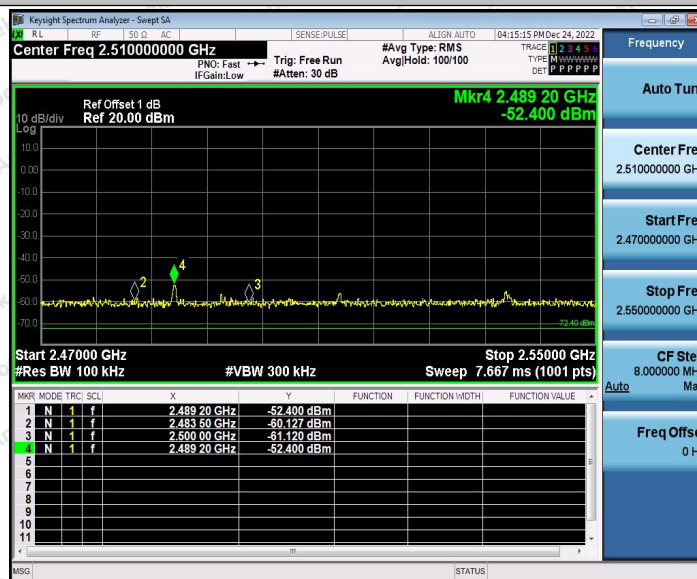


Test Graphs

2.4G_Ant1_Low_2402



2.4G_Ant1_High_2441



2.4G_Ant1_High_2480

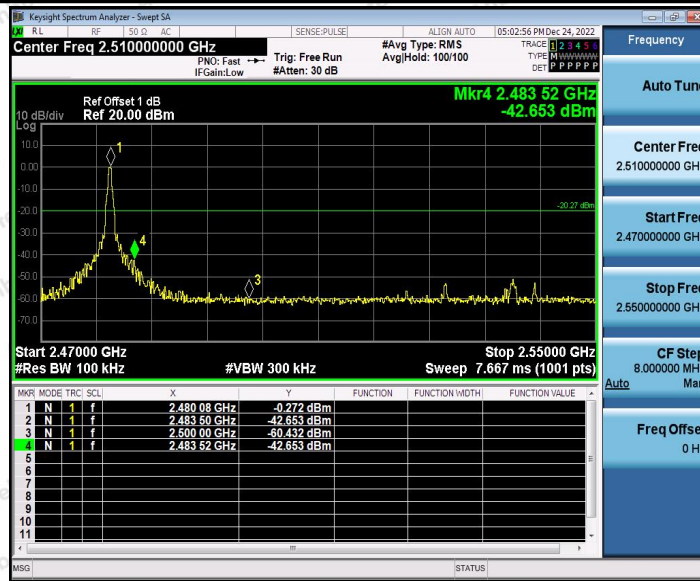
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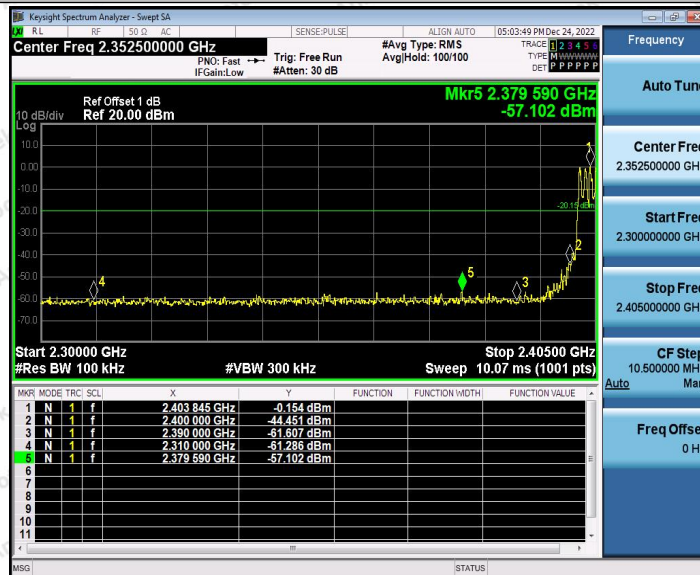


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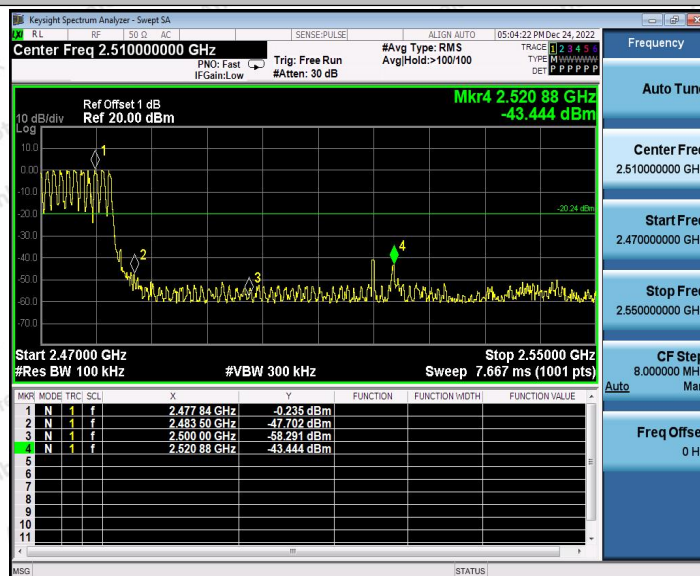




2.4G_Ant1_Low_Hop_2402



2.4G_Ant1_High_Hop_2480



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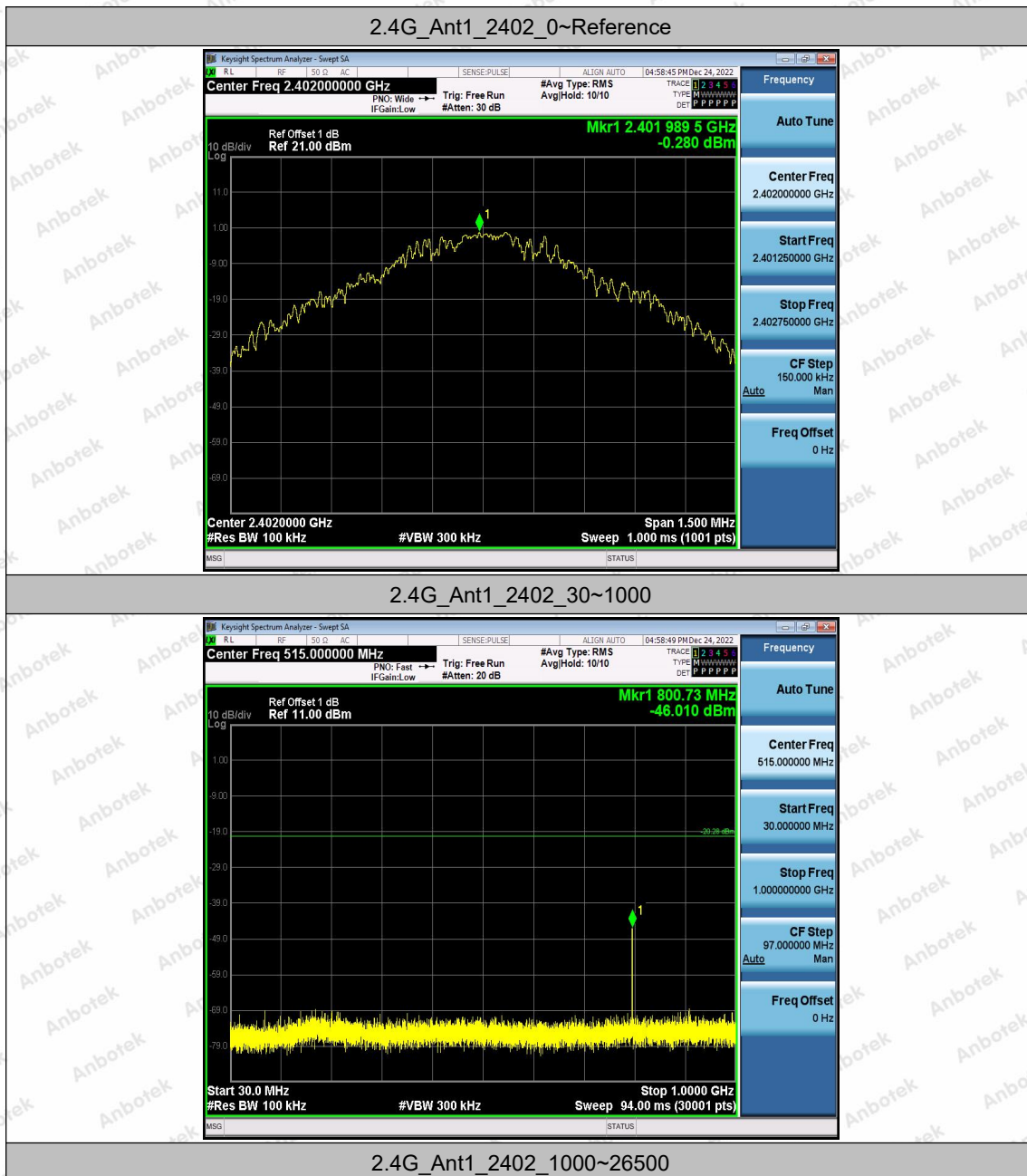
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402	Reference	-0.28	-0.28	---	PASS
			30~1000	-0.28	-46.01	≤-20.28	PASS
			1000~26500	-0.28	-36.56	≤-20.28	PASS
		2441	Reference	-0.63	-0.63	---	PASS
			30~1000	-0.63	-45.11	≤-20.63	PASS
			1000~26500	-0.63	-36.4	≤-20.63	PASS
		2480	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-44.8	≤-20.8	PASS
			1000~26500	-0.80	-37.16	≤-20.8	PASS



Test Graphs



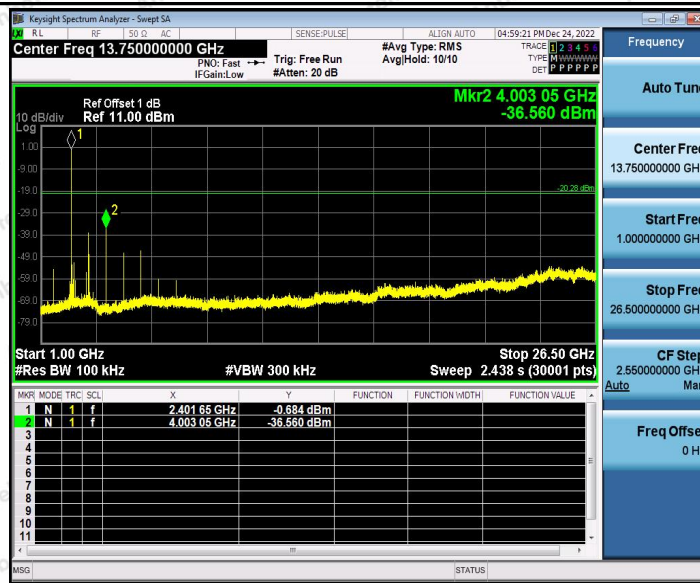
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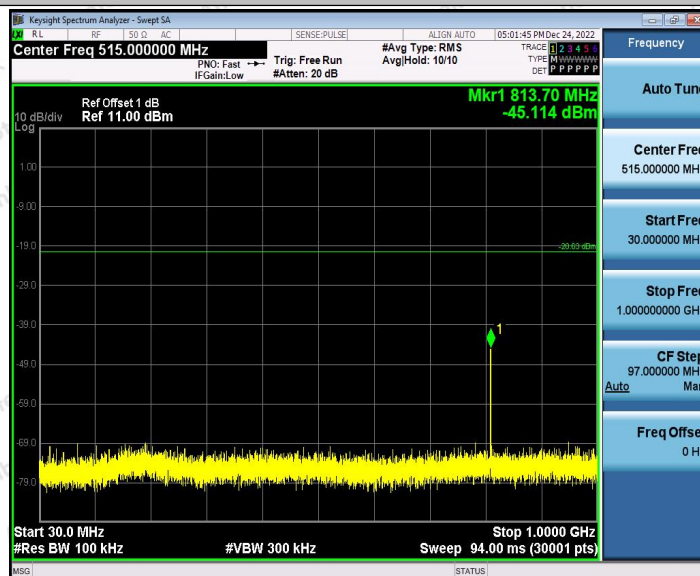




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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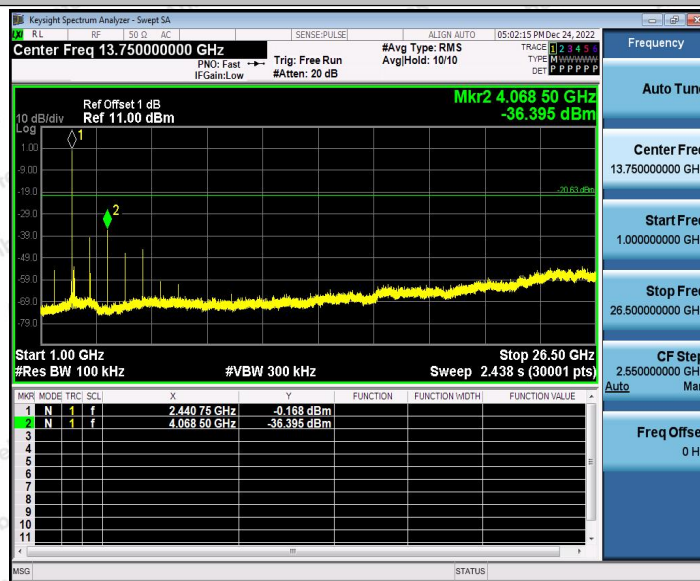
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2480_0~Reference



2.4G_Ant1_2480_30~1000

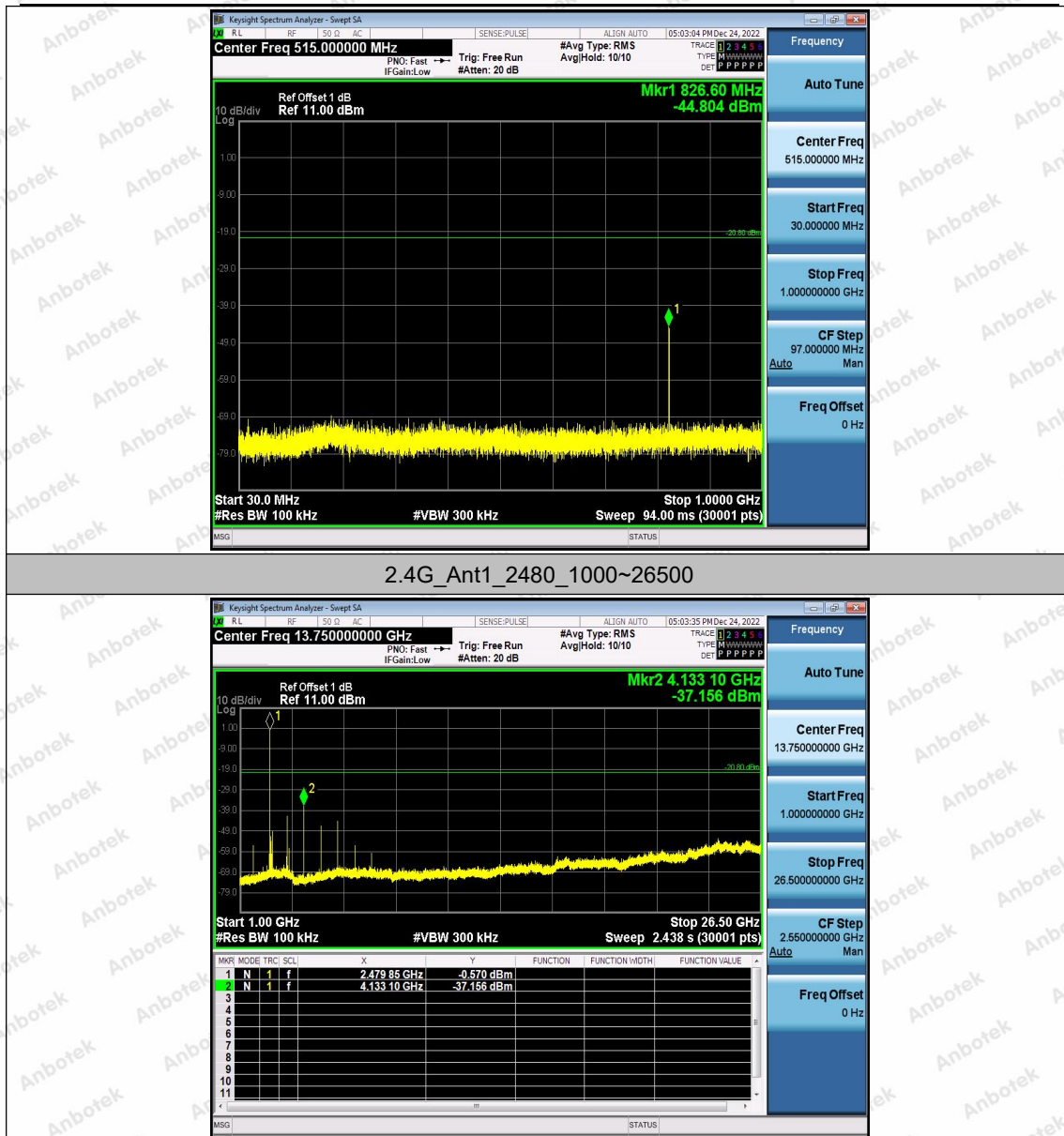
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Appendix I: Duty Cycle

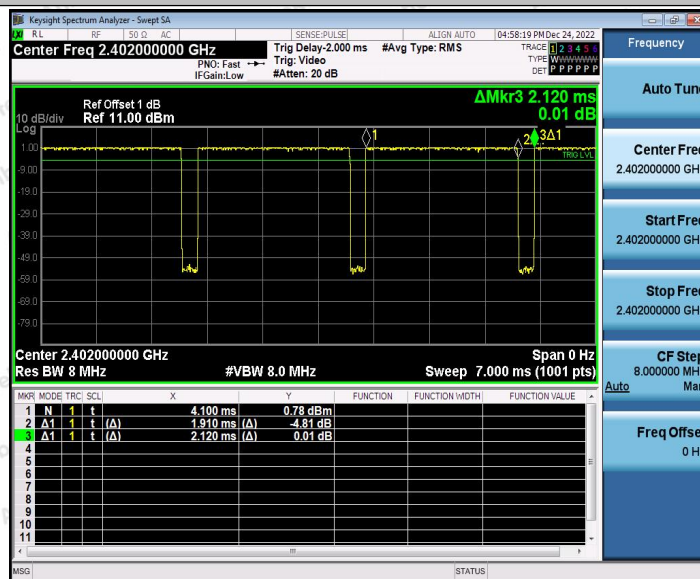
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402	1.91	2.12	90.09	0.45
		2441	1.91	2.12	90.09	0.45
		2480	1.91	2.12	90.09	0.45

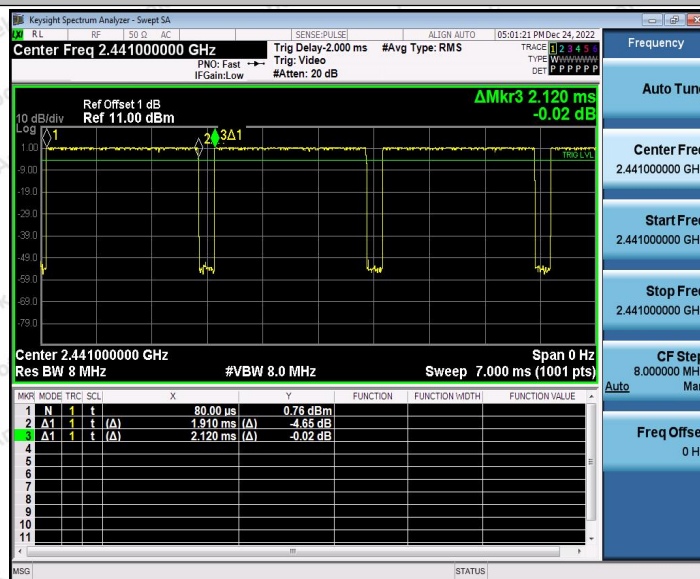


Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



2.4G_Ant1_2480

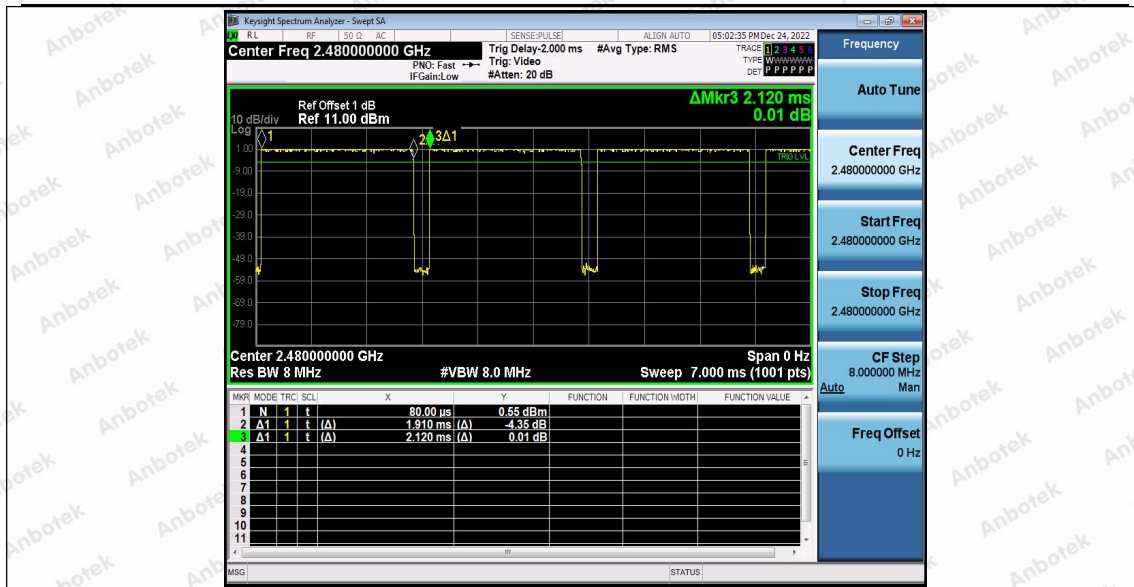
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