

Appendix Test Data

Report No.:	18220WC20272503	Test Sample No.:	1-2-2
Start Test Date:	2022.1.25	Finish Test Date:	2022.1.25
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.4℃	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2402.4	0.786	2402.004	2402.790
		2441.4	0.783	2441.007	2441.790
		2479.4	0.792	2479.004	2479.796



Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2402.4	0.71513	2402.0394	2402.7546
		2441.4	0.72682	2441.0379	2441.7647
		2479.4	0.72342	2479.0327	2479.7561



Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

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Appendix C: Maximum conducted output power

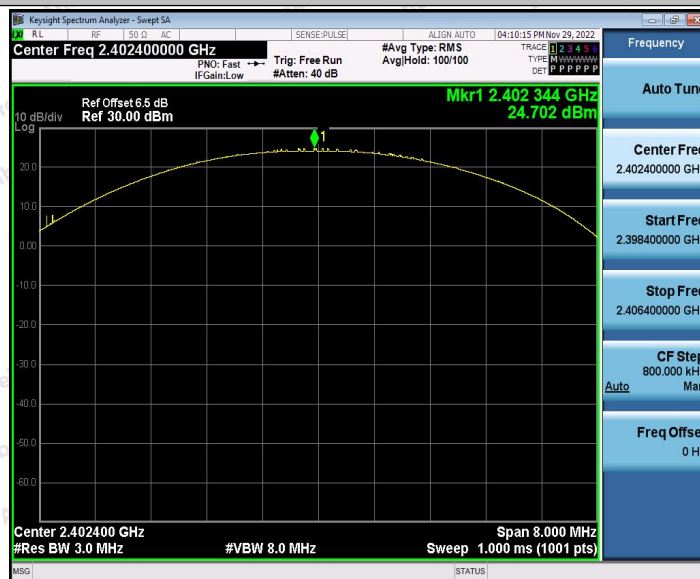
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2402.4	24.7	≤30	PASS
		2441.4	24.78	≤30	PASS
		2479.4	24.7	≤30	PASS

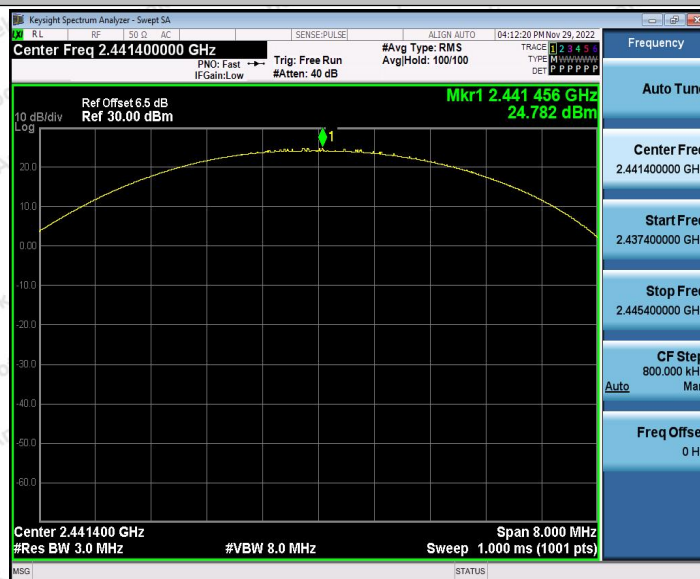


Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.252	≥0.792	PASS



Test Graphs



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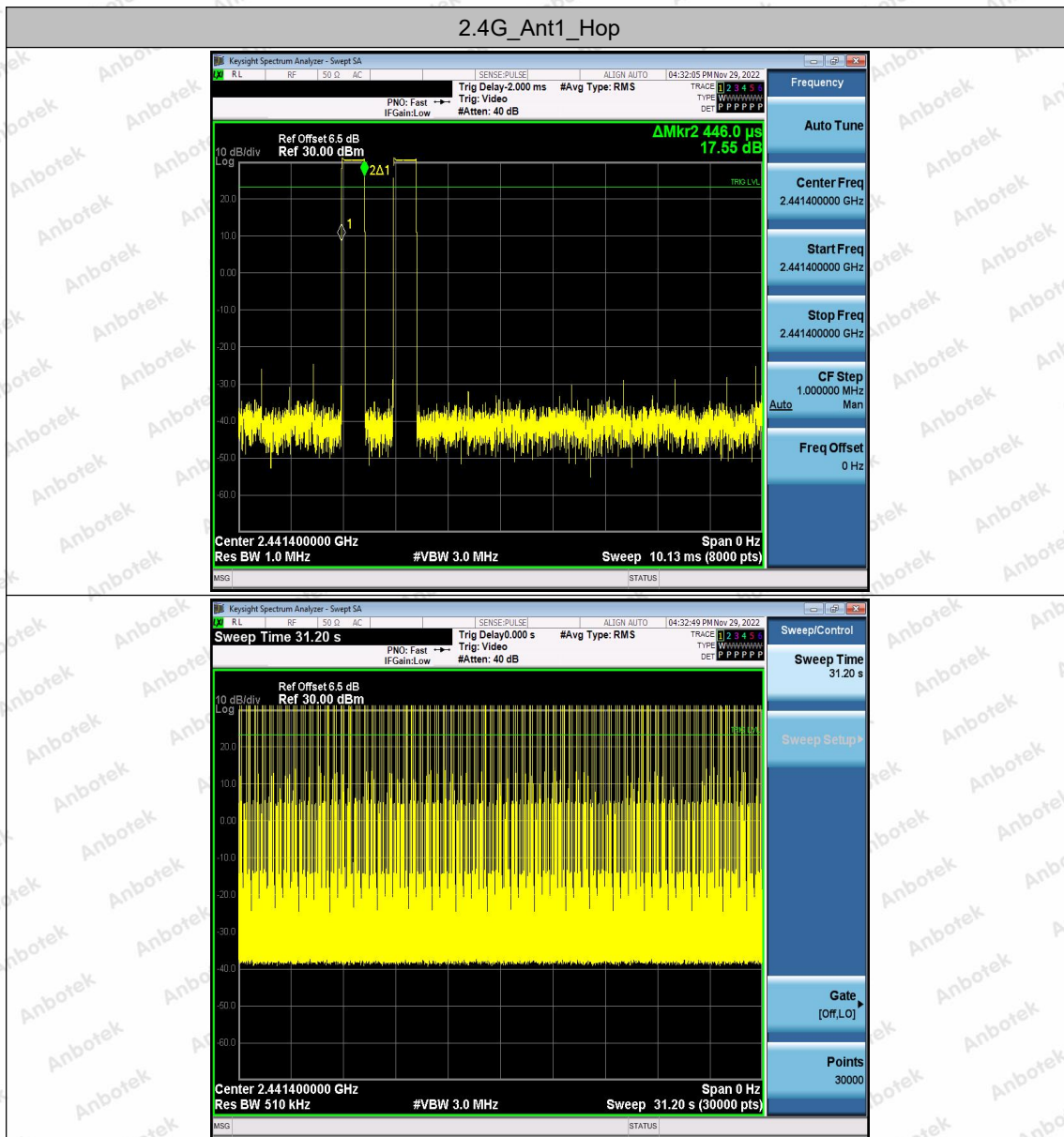
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.446	200	0.089	≤0.4	PASS



Test Graphs



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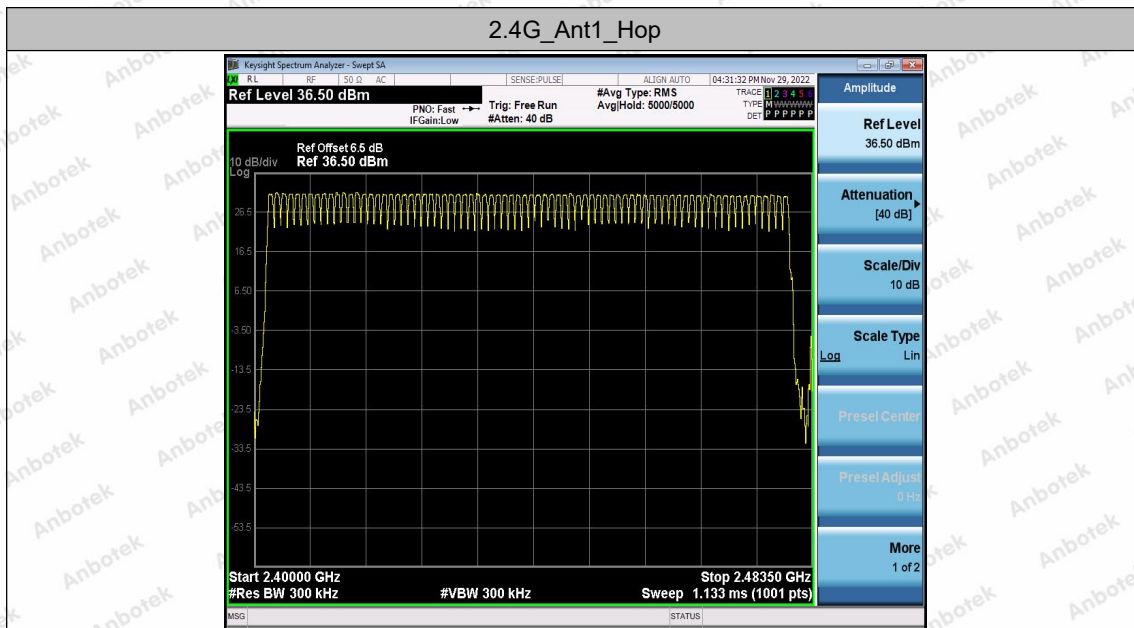
Appendix F: Number of hopping channels

Test Result

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



Test Graphs



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Appendix G: Band edge measurements

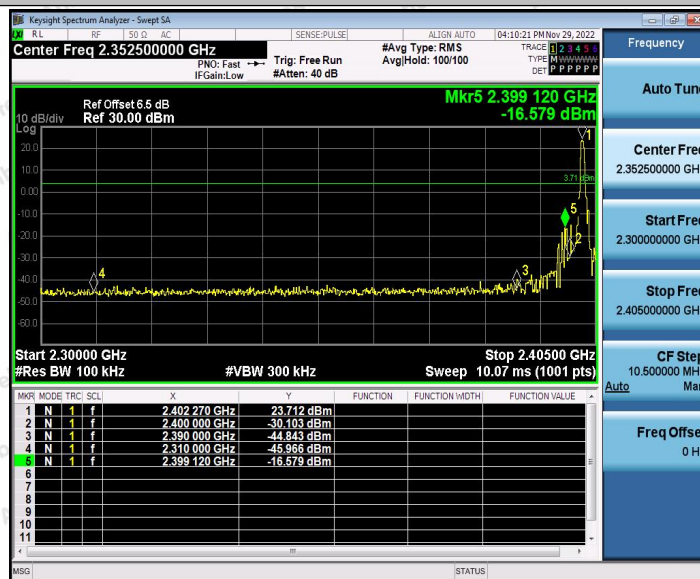
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402.4	23.71	-16.58	≤3.71	PASS
		High	2479.4	23.83	-34.84	≤3.83	PASS
		Low	Hop_2402	30.55	-34.15	≤10.55	PASS
		High	Hop_2480	30.46	0.57	≤10.46	PASS

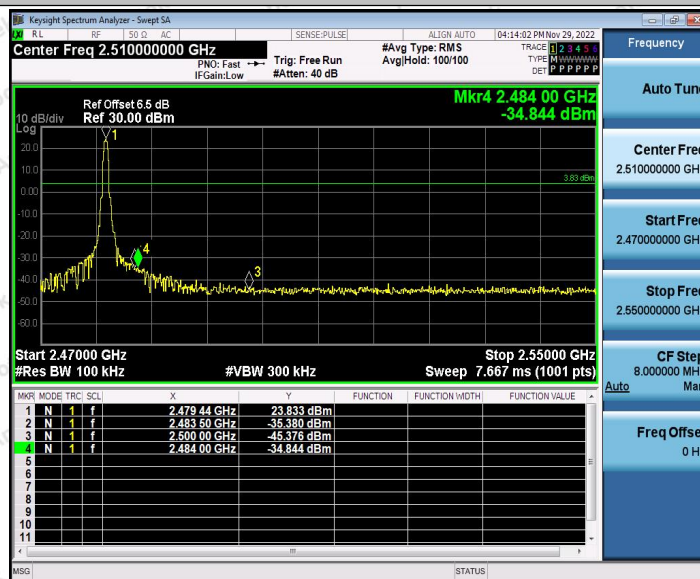


Test Graphs

2.4G_Ant1_Low_2402.4



2.4G_Ant1_High_2479.4



2.4G_Ant1_Low_Hop_2402

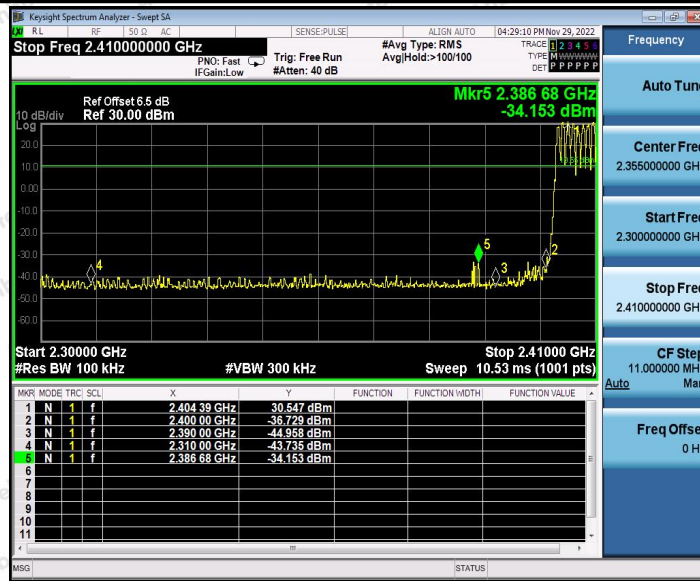
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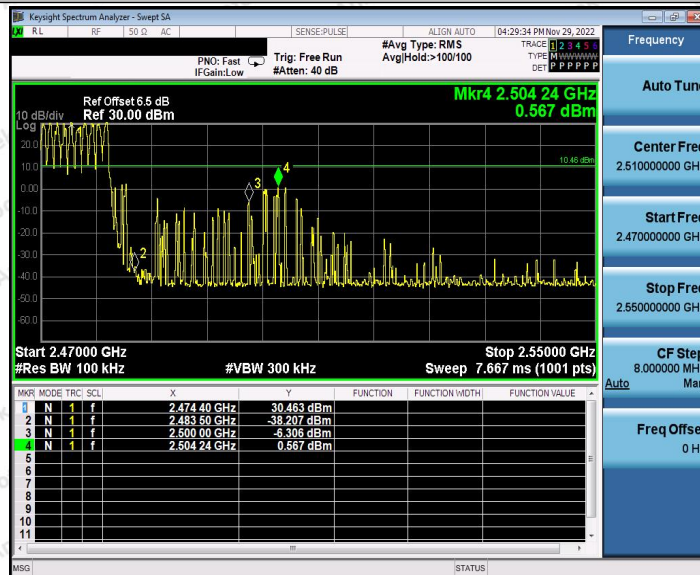


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2.4G_Ant1_High_Hop_2480



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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	2402.4	Reference	23.05	23.05	---	PASS
			30~1000	23.05	-55.69	≤3.05	PASS
			1000~26500	23.05	-43.23	≤3.05	PASS
		2441.4	Reference	23.71	23.71	---	PASS
			30~1000	23.71	-62.87	≤3.71	PASS
			1000~26500	23.71	-46.76	≤3.71	PASS
		2479.4	Reference	23.85	23.85	---	PASS
			30~1000	23.85	-63.02	≤3.85	PASS
			1000~26500	23.85	-45.36	≤3.85	PASS



Test Graphs



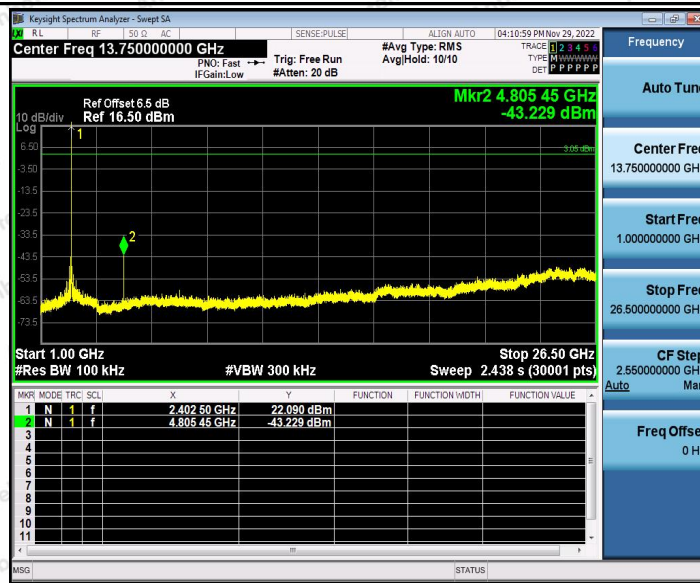
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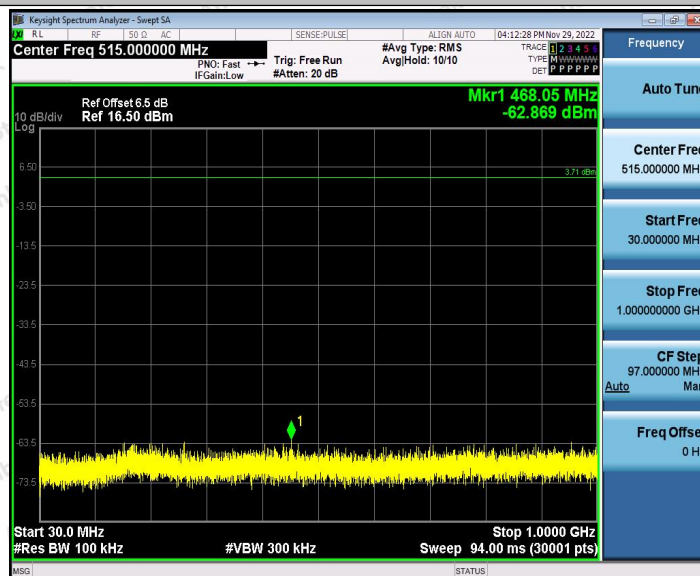




2.4G_Ant1_2441.4_0~Reference



2.4G_Ant1_2441.4_30~1000



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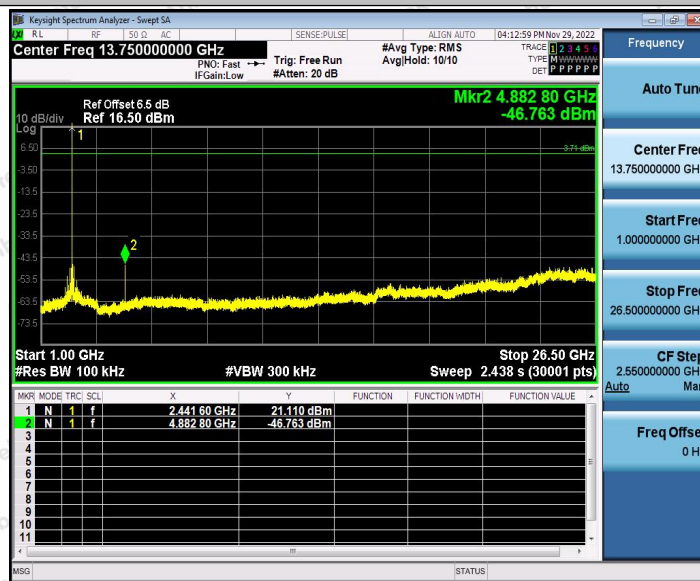
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2.4G_Ant1_2441.4_1000~26500



2.4G_Ant1_2479.4_0~Reference



2.4G_Ant1_2479.4_30~1000

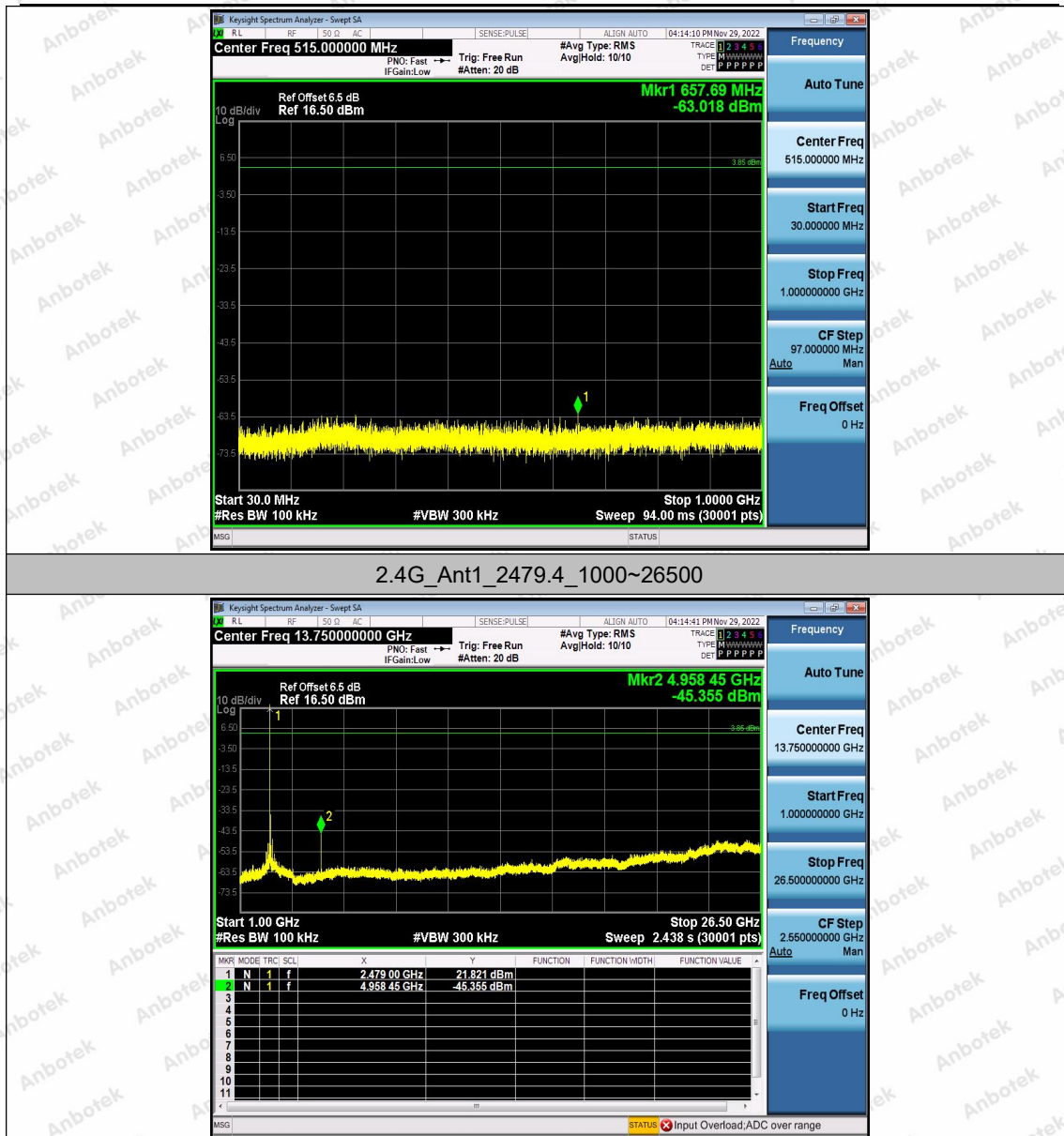
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Appendix I: Duty Cycle

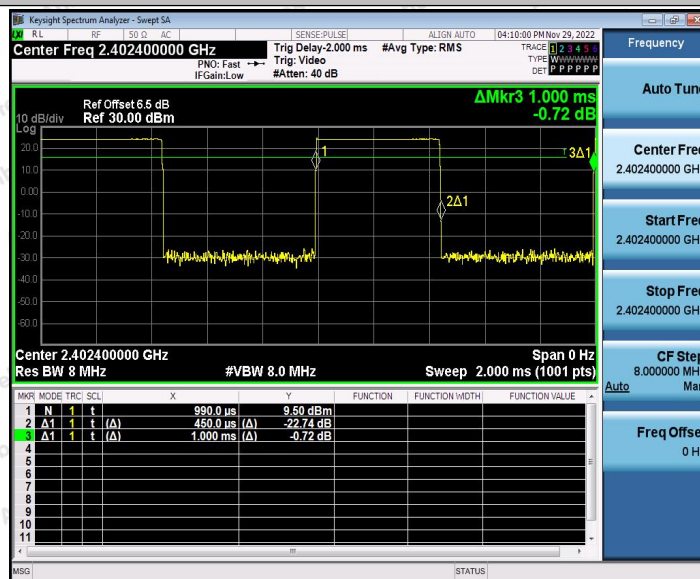
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402.4	0.45	1.00	45.00	3.47
		2441.4	0.45	1.00	45.00	3.47
		2479.4	0.45	1.00	45.00	3.47

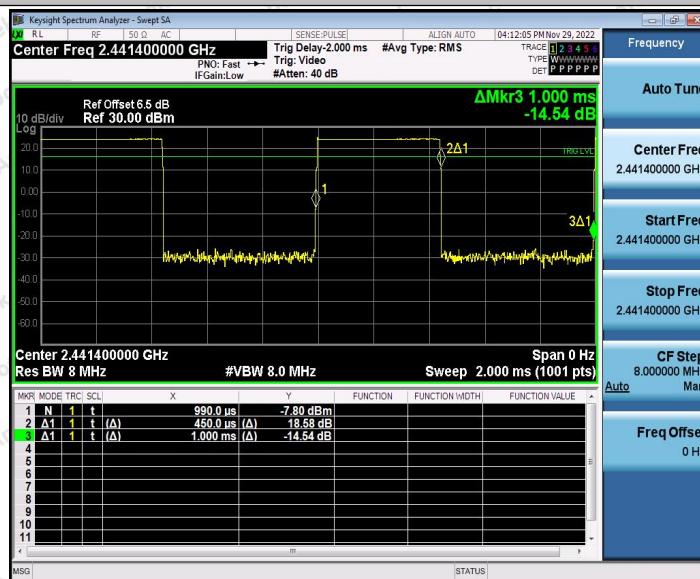


Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

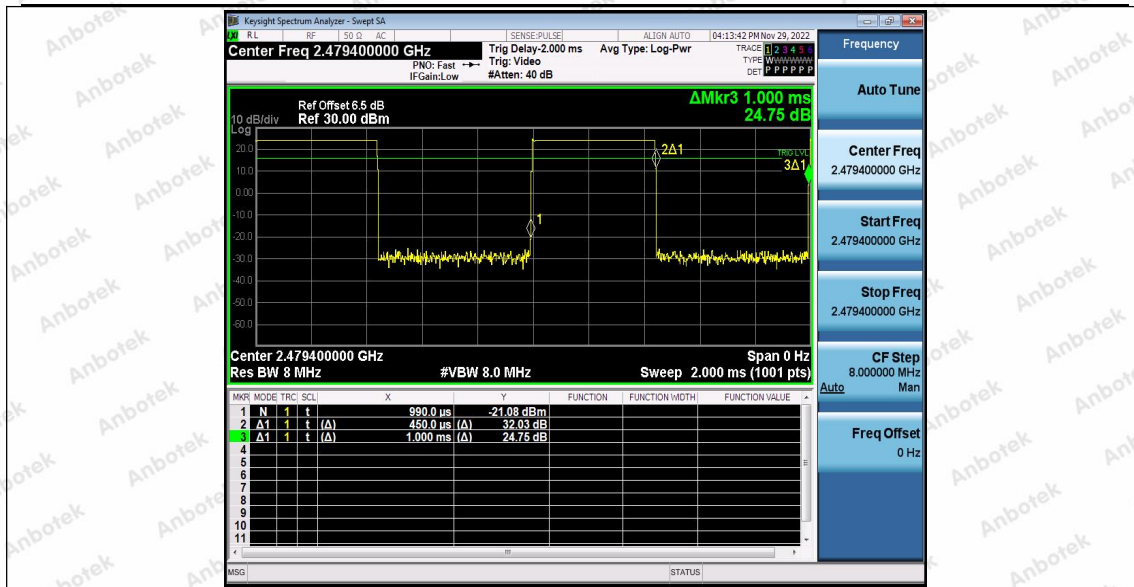
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