

Appendix Test Data

Report No.:	18220WC20215501	Test Sample No.:	1-2-2
Start Test Date:	2022.9.13	Finish Test Date:	2022.9.19
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	2403	1.980	2402.010	2403.990
		2441	2.030	2440.005	2442.035
		2479	1.797	2478.025	2479.822



Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479

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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	2403	2.0411	2401.9660	2403.9993
		2441	2.1058	2439.9534	2442.0340
		2479	2.1584	2477.8891	2480.0474



Test Graphs



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Appendix C: Maximum conducted output power

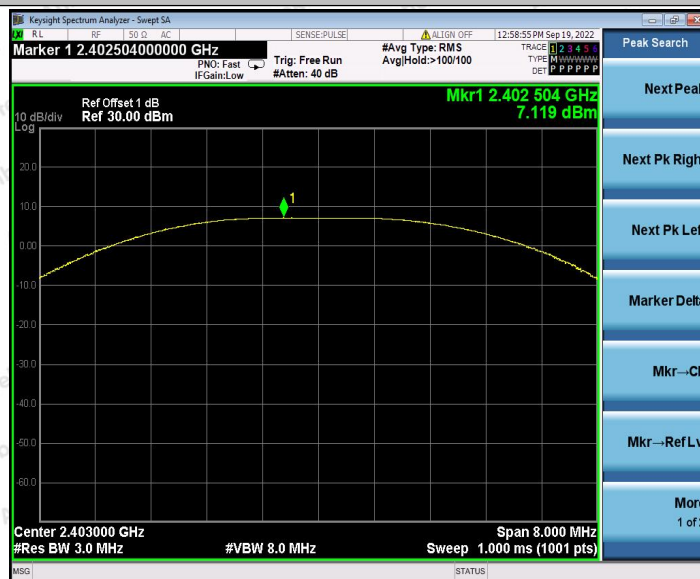
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	7.12	≤20.97	PASS
		2441	7.07	≤20.97	PASS
		2479	7.07	≤20.97	PASS

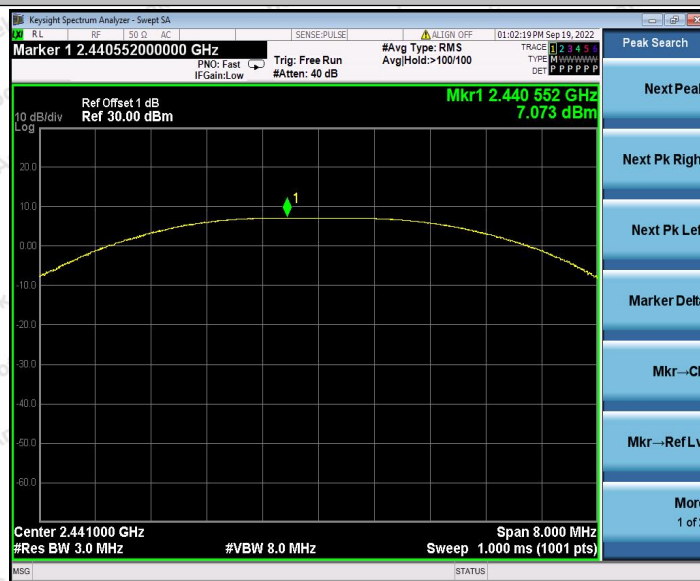


Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479

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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	2.02	≥1.353	PASS



Test Graphs



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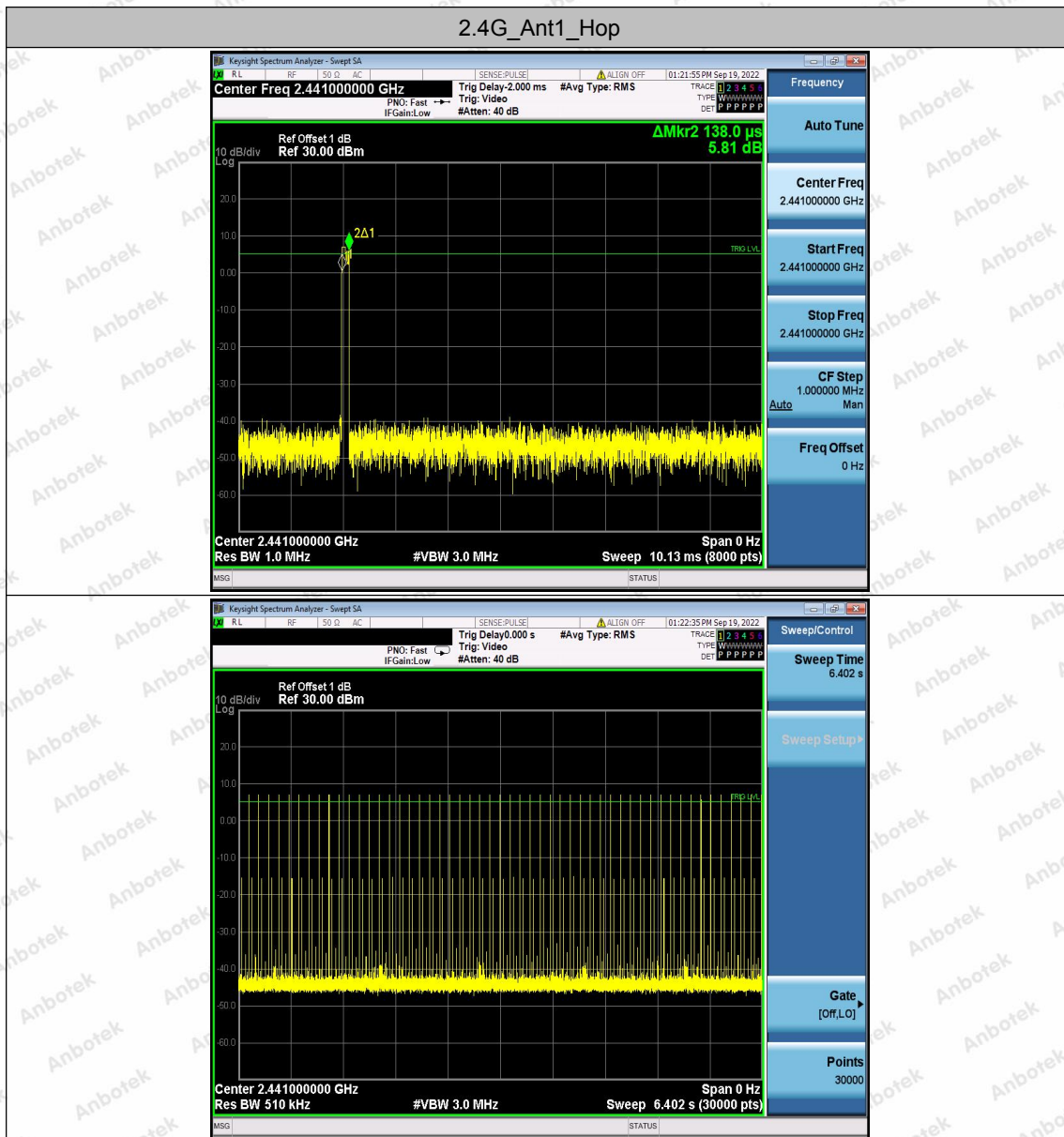
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.138	52	0.007	≤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	16	≥15	PASS

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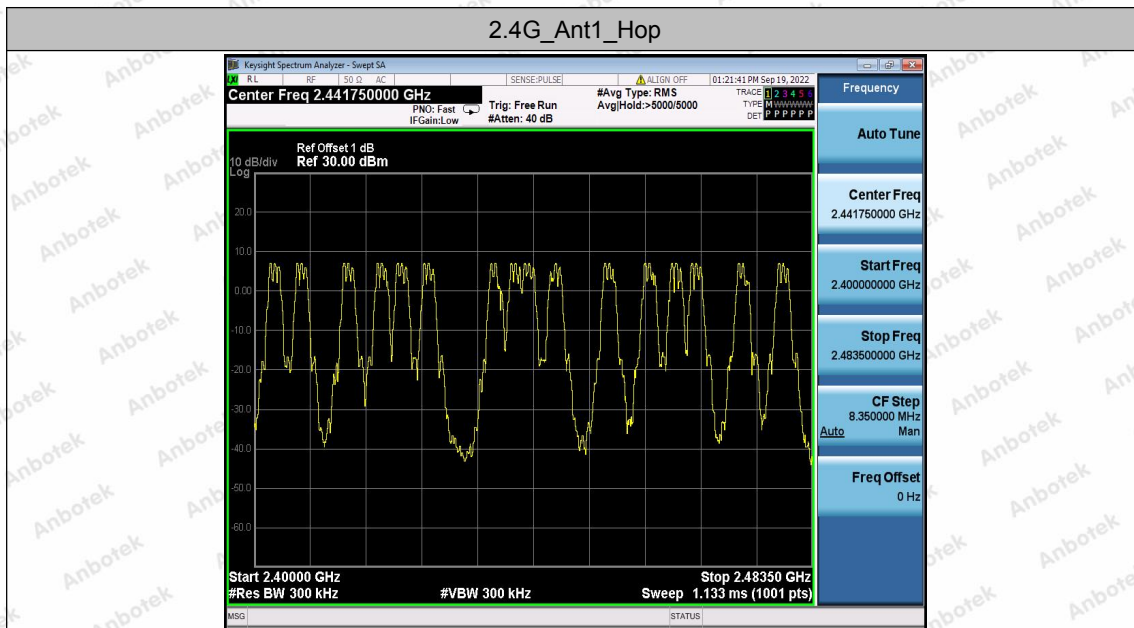
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Test Graphs



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Appendix G: Band edge measurements

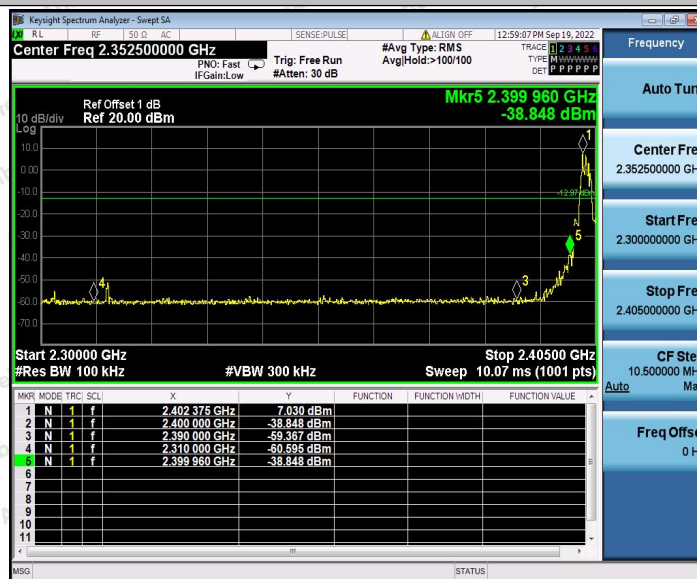
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	7.03	-38.85	≤-12.97	PASS
		High	2479	6.95	-45.51	≤-13.05	PASS
		Low	Hop_2402	6.91	-51.4	≤-13.09	PASS
		High	Hop_2480	6.90	-56.5	≤-13.1	PASS

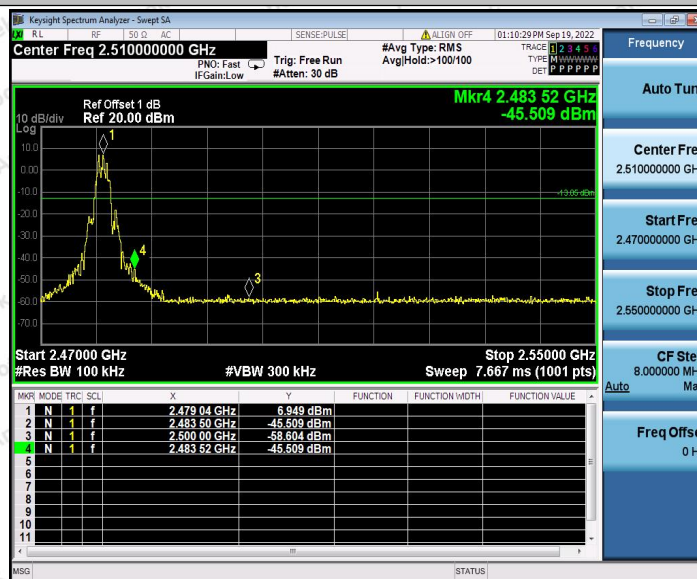


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2479



2.4G_Ant1_Low_Hop_2402

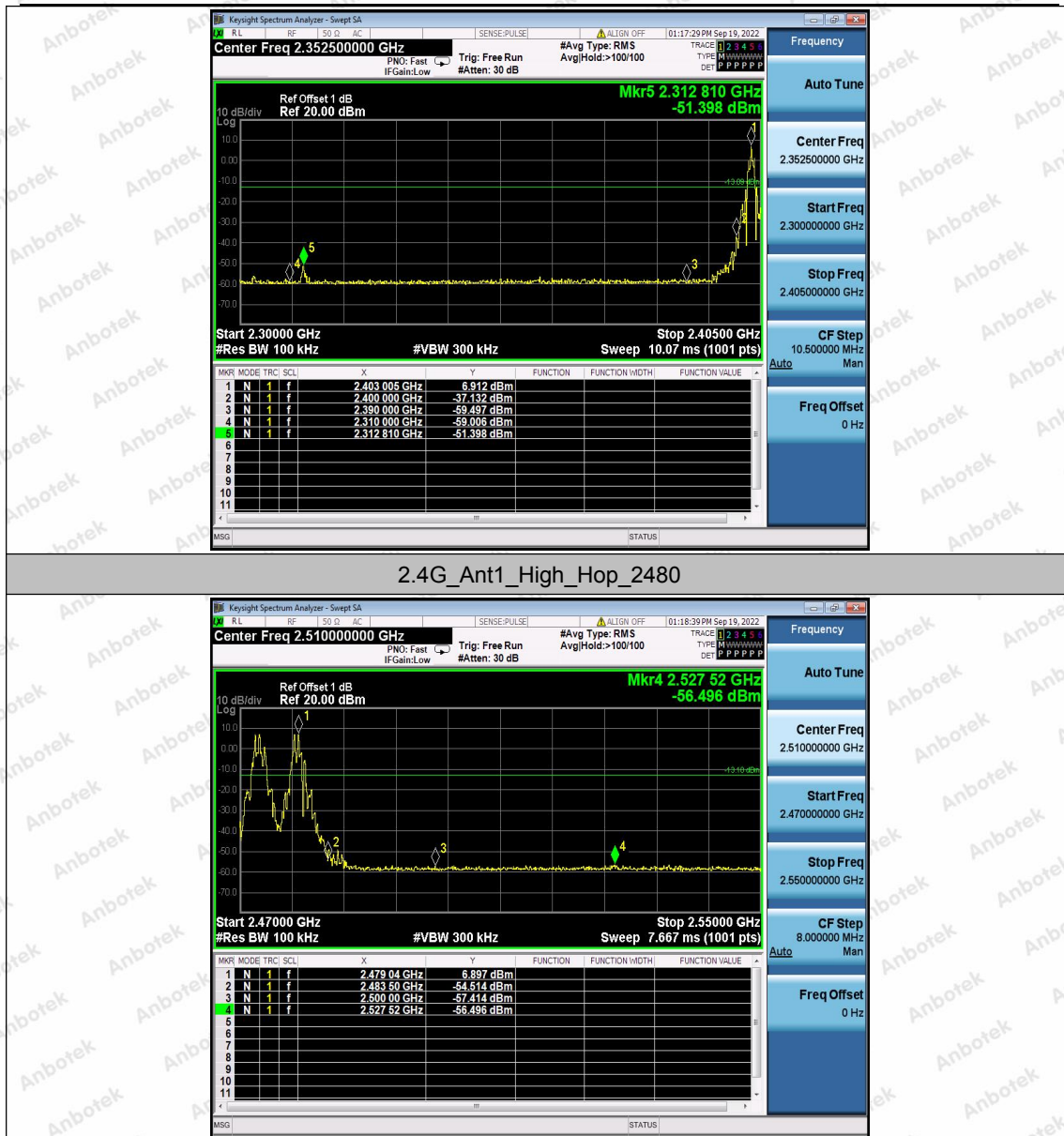
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	Reference	4.10	4.10	---	PASS
			30~1000	4.10	-69.09	≤-25.9	PASS
			1000~26500	4.10	-54.02	≤-25.9	PASS
		2441	Reference	6.90	6.90	---	PASS
			30~1000	6.90	-69.53	≤-23.1	PASS
			1000~26500	6.90	-53.13	≤-23.1	PASS
		2479	Reference	6.92	6.92	---	PASS
			30~1000	6.92	-68.9	≤-23.08	PASS
			1000~26500	6.92	-52.74	≤-23.08	PASS



Test Graphs



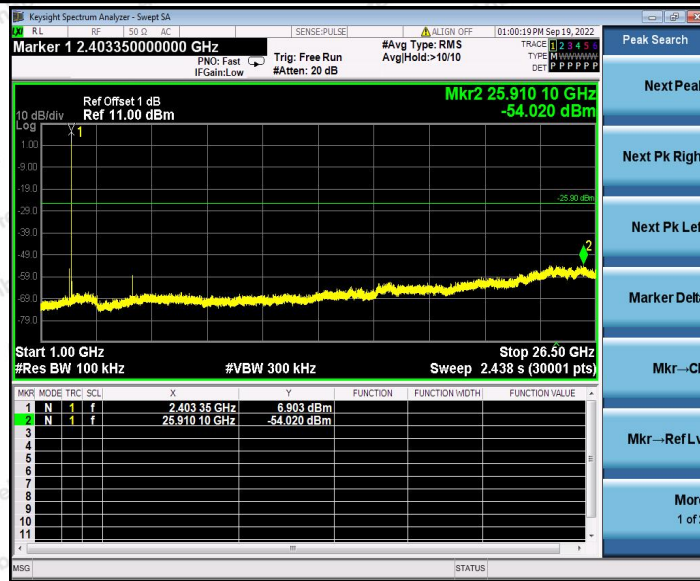
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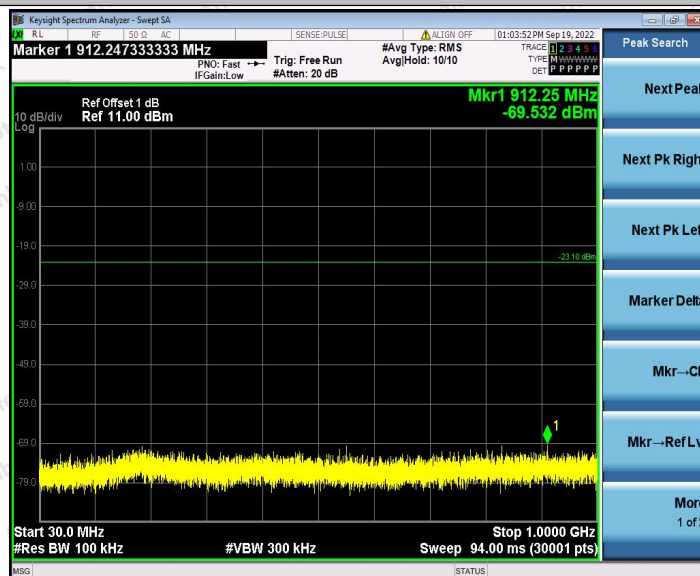




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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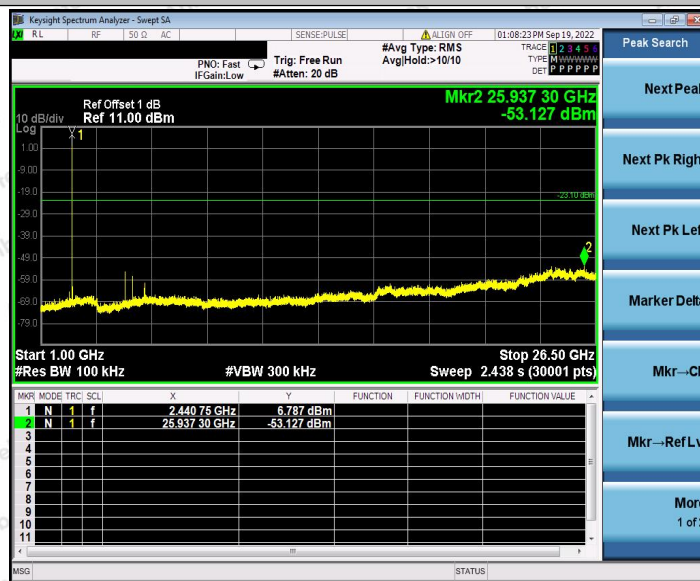
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2479_0~Reference



2.4G_Ant1_2479_30~1000

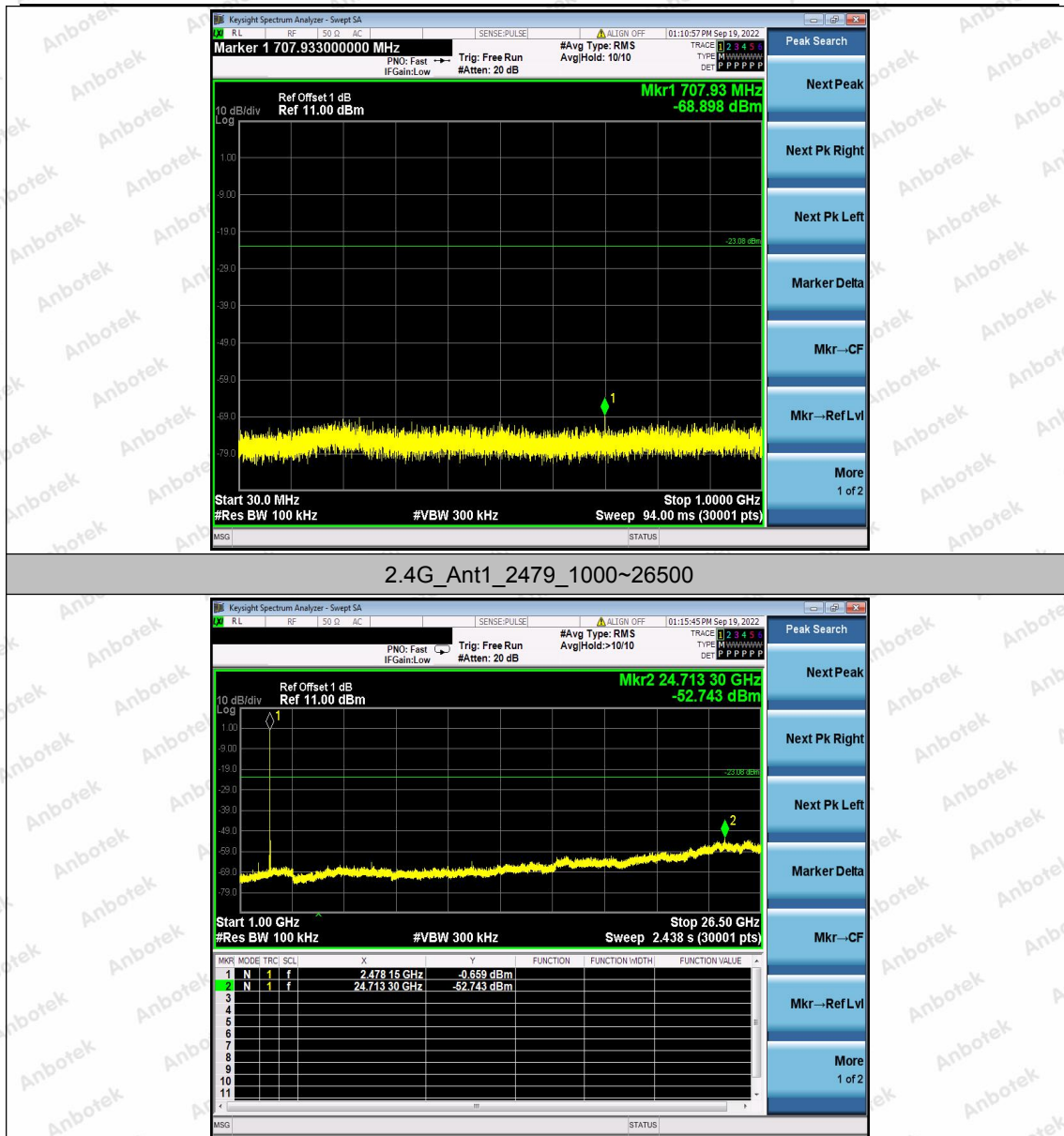
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Appendix I: Duty Cycle

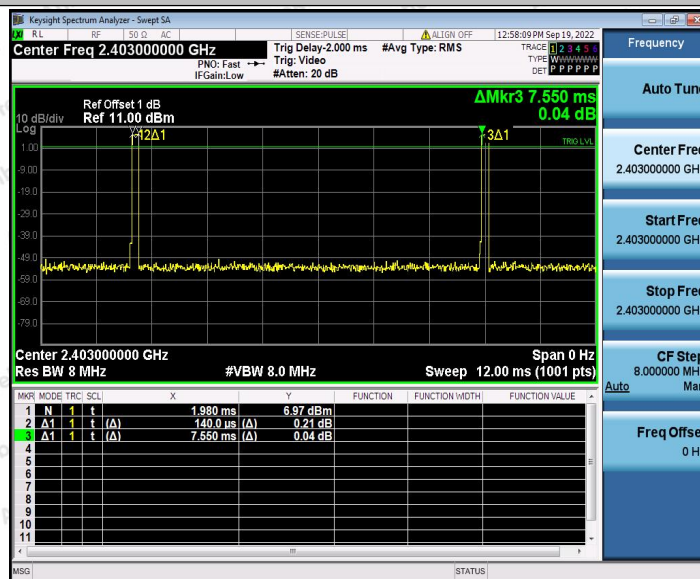
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.14	7.55	1.85	17.33
		2441	0.14	7.54	1.86	17.30
		2479	0.14	7.54	1.86	17.30

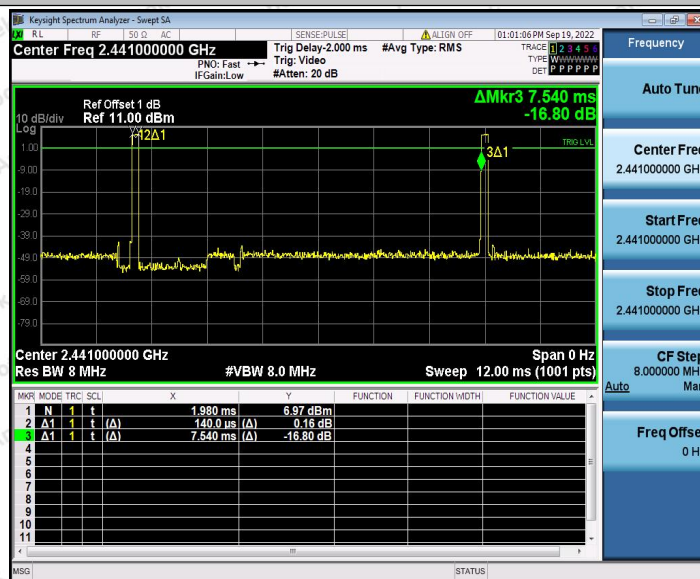


Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479

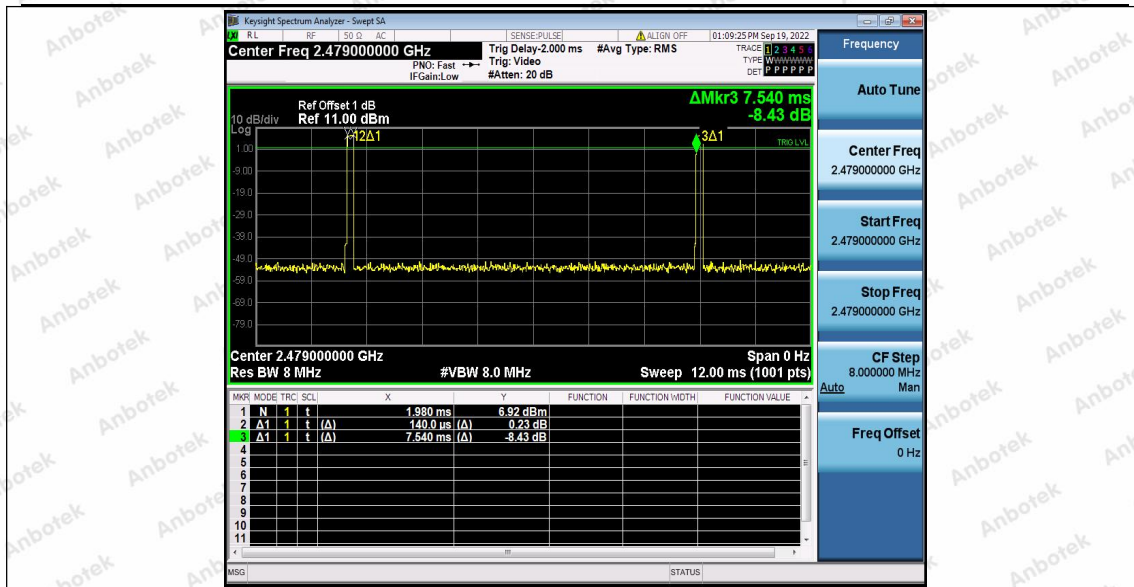
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