

Appendix Test Data

Report No.:	18220WC301644	Test Sample No.:	1-2-2
Start Test Date:	2023.08.04	Finish Test Date:	2023.08.08
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3℃	Relative Humidity:	48%
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	2408	2.094	2406.974	2409.068	---	---
		2440	2.172	2438.974	2441.146	---	---
		2474	2.088	2472.980	2475.068	---	---



Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2440



2.4G_Ant1_2474

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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	2408	2.4132	2406.9462	2409.3594	---	---
		2440	2.3776	2438.9409	2441.3185	---	---
		2474	2.2657	2472.9170	2475.1827	---	---

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Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2440



2.4G_Ant1_2474

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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	2408	-5.18	≤30	PASS
		2440	-5.17	≤30	PASS
		2474	-4.74	≤30	PASS



Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2440



2.4G_Ant1_2474

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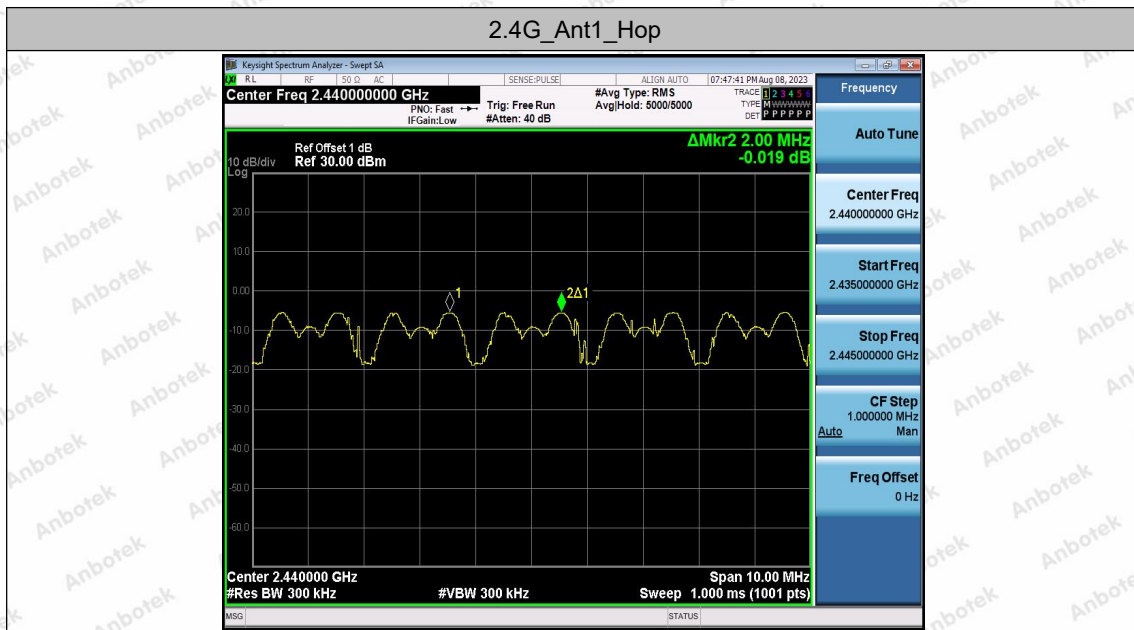
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥1.448	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	7.899	26	0.2054	≤0.4	PASS



Test Graphs



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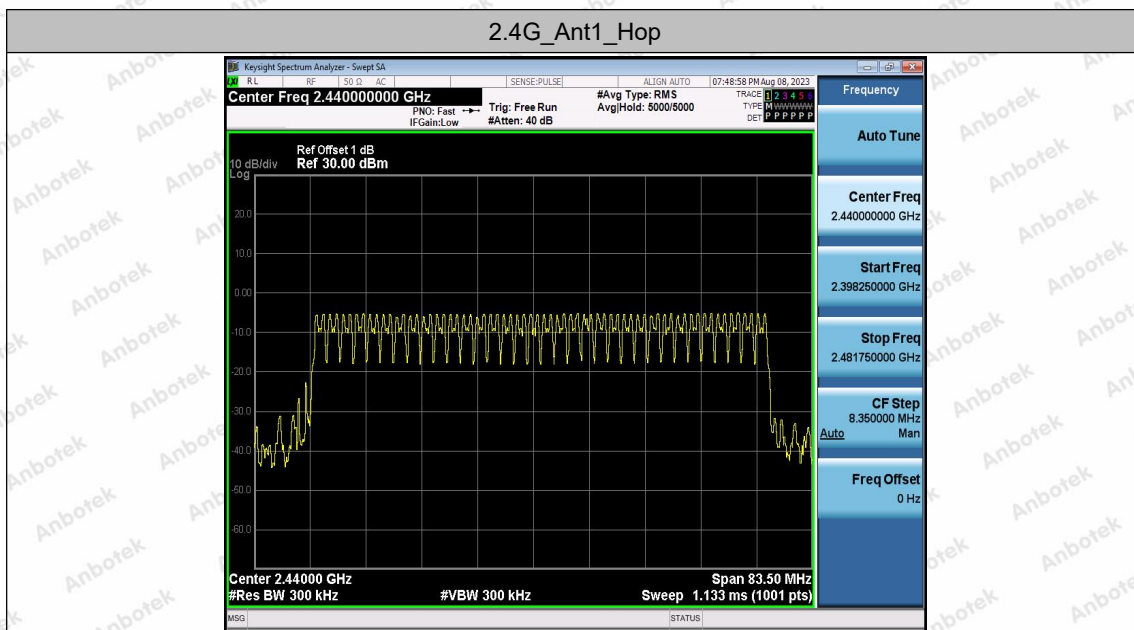
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	34	≥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	2408	-5.35	-39.77	≤-25.35	PASS
		High	2474	-4.91	-48.23	≤-24.91	PASS
		Low	Hop_2408	-5.13	-42.66	≤-25.13	PASS
		High	Hop_2474	-5.04	-50.64	≤-25.04	PASS



Test Graphs

2.4G_Ant1_Low_2408



2.4G_Ant1_High_2474



2.4G_Ant1_Low_Hop_2408

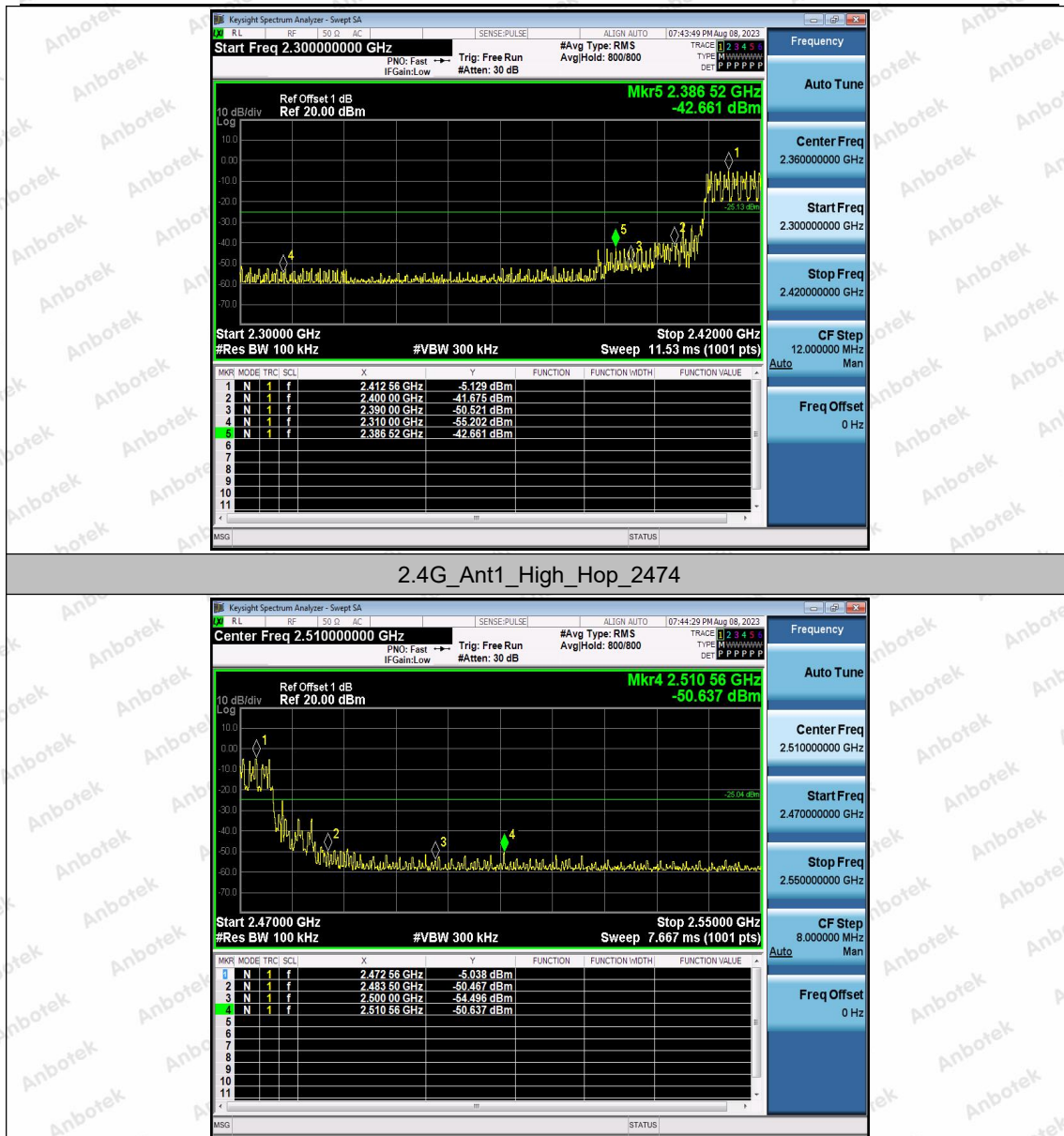
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2408	Reference	-5.56	-5.56	---	PASS
			30~1000	-5.56	-49.52	≤-25.56	PASS
			1000~26500	-5.56	-42.79	≤-25.56	PASS
		2440	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-50.05	≤-25.47	PASS
			1000~26500	-5.47	-40.18	≤-25.47	PASS
		2474	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-49.73	≤-25.06	PASS
			1000~26500	-5.06	-37.67	≤-25.06	PASS

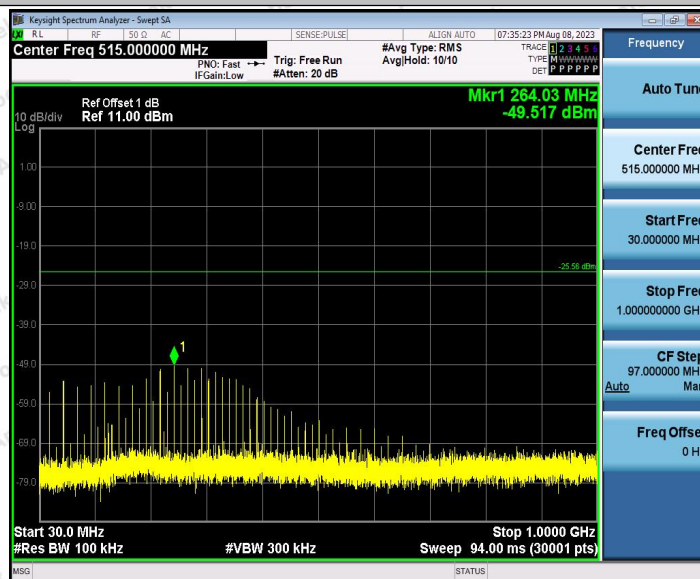


Test Graphs

2.4G_Ant1_2408_0~Reference



2.4G_Ant1_2408_30~1000



2.4G_Ant1_2408_1000~26500

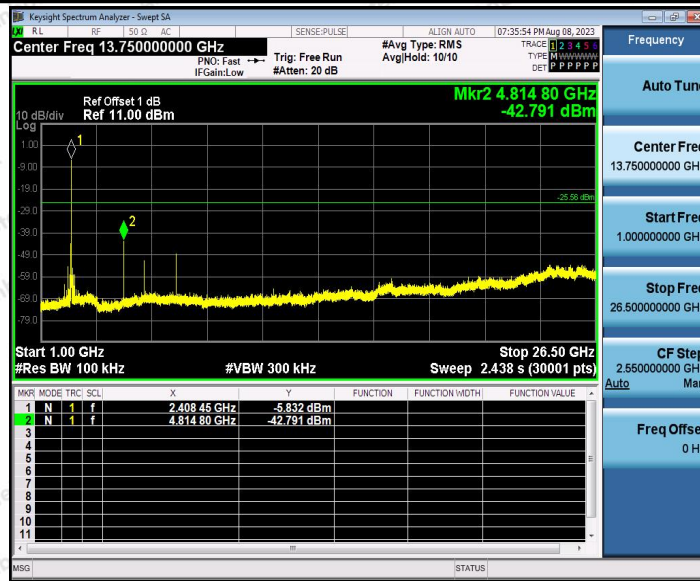
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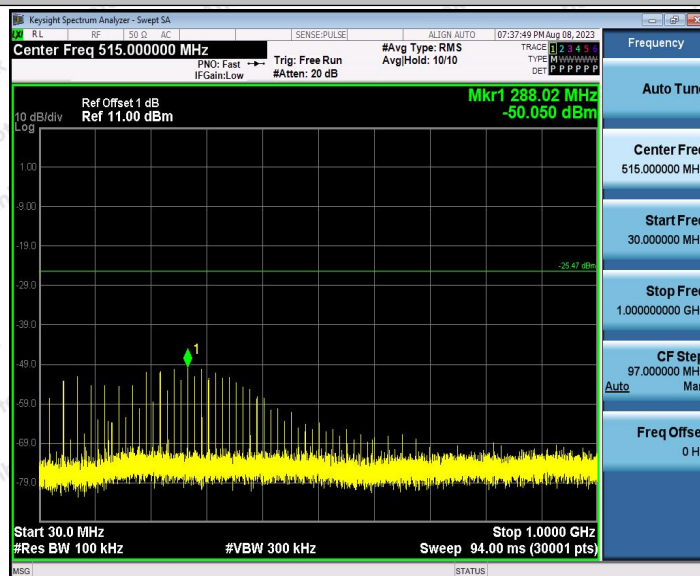




2.4G_Ant1_2440_0~Reference



2.4G_Ant1_2440_30~1000



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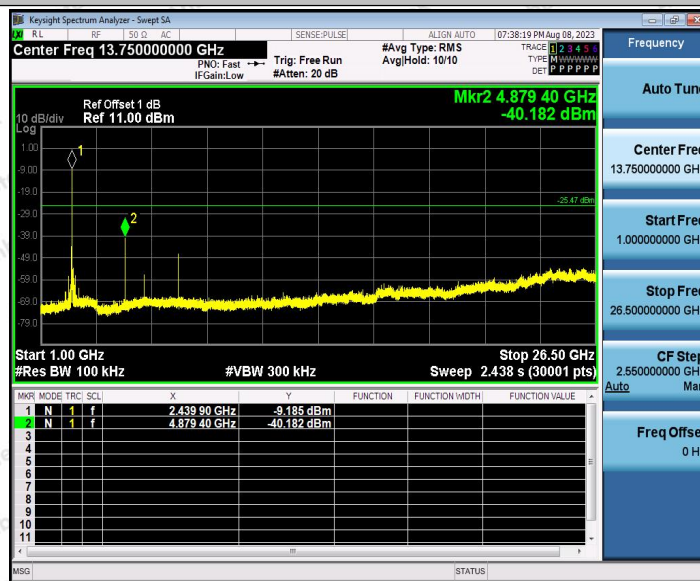
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2.4G_Ant1_2440_1000~26500



2.4G_Ant1_2474_0~Reference



2.4G_Ant1_2474_30~1000

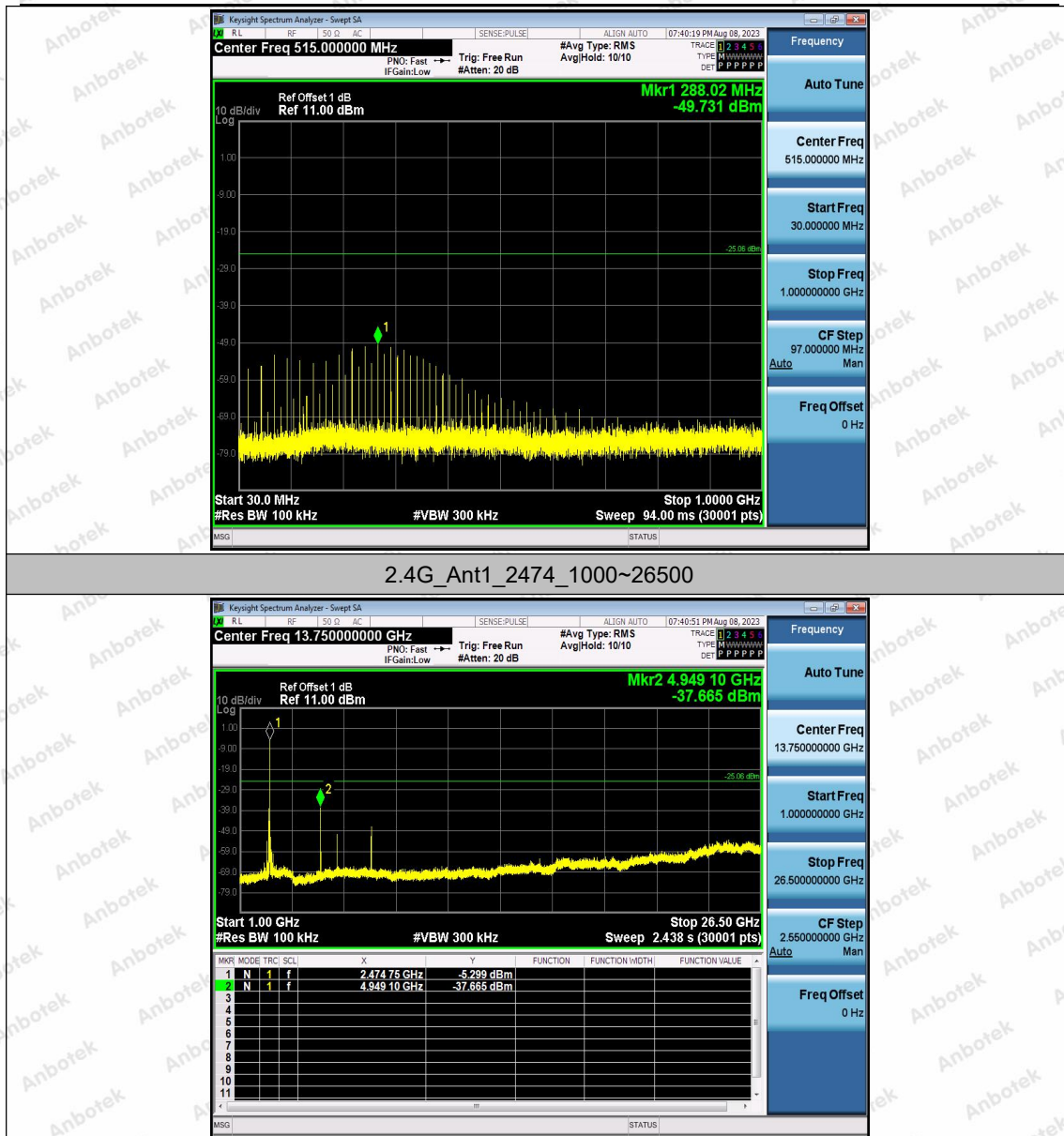
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Appendix I: Duty Cycle

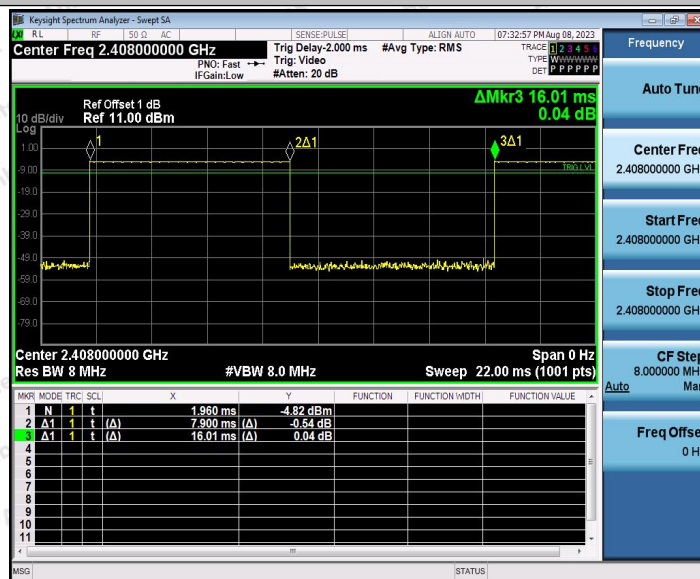
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2408	7.90	16.01	49.34	3.07
		2440	7.90	16.01	49.34	3.07
		2474	7.90	16.01	49.34	3.07

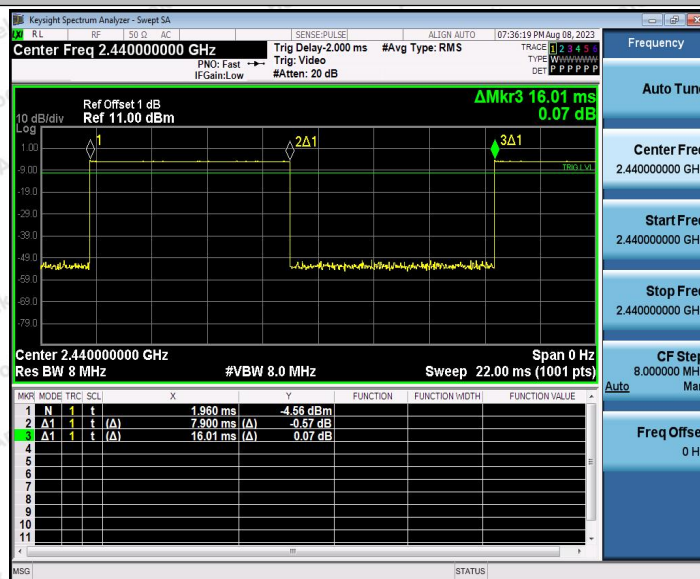


Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2440



2.4G_Ant1_2474

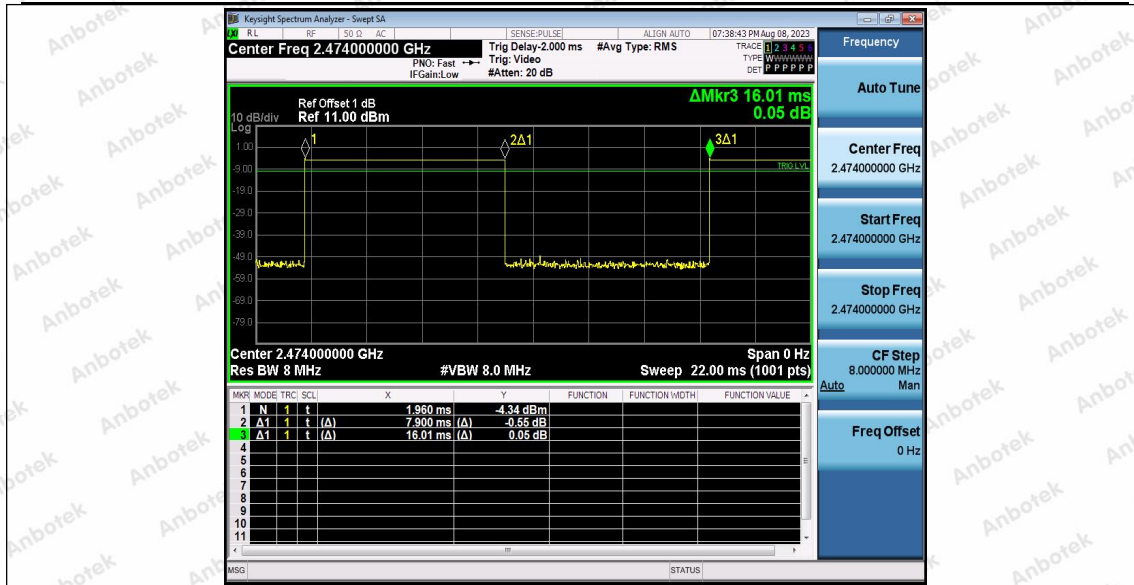
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