

Appendix Test Data

Report No.:	18220WC20195901	Test Sample No.:	1-2-2
Start Test Date:	2022.8.23	Finish Test Date:	2022.9.16
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3℃	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]
2.4	Ant1	2404	0.243	2403.814	2404.057
		2439.1	0.261	2438.914	2439.175
		2474.2	0.234	2474.005	2474.239

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Test Graphs

2.4_Ant1_2404



2.4_Ant1_2439.1



2.4_Ant1_2474.2

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
2.4	Ant1	2404	0.33157	2403.8345	2404.1660
		2439.1	0.29444	2438.9237	2439.2181
		2474.2	0.22411	2474.0144	2474.2386



Test Graphs

2.4_Ant1_2404



2.4_Ant1_2439.1



2.4_Ant1_2474.2

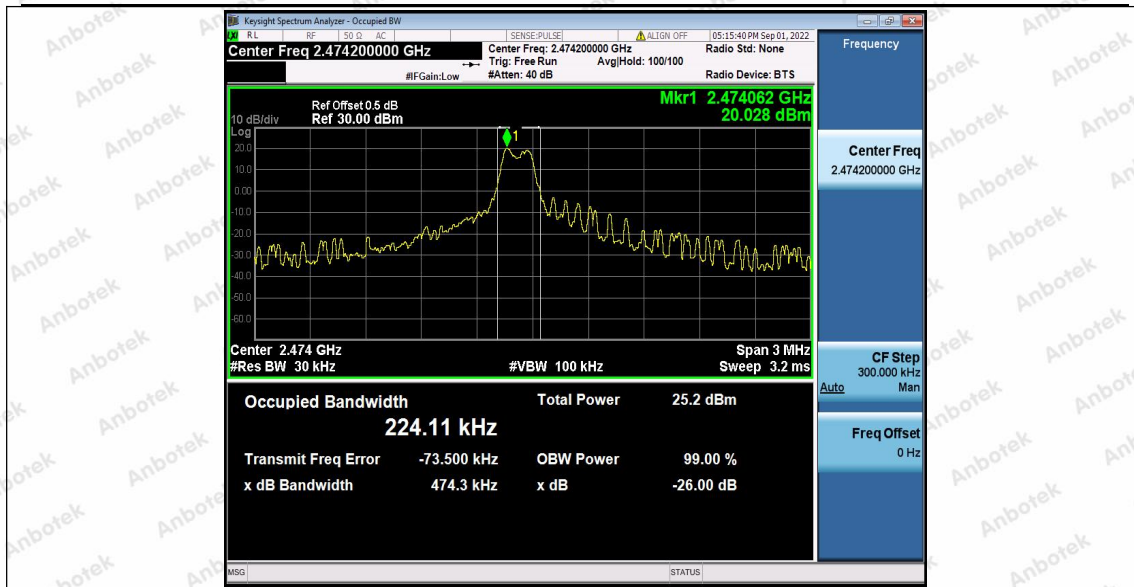
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Appendix C: Maximum conducted output power

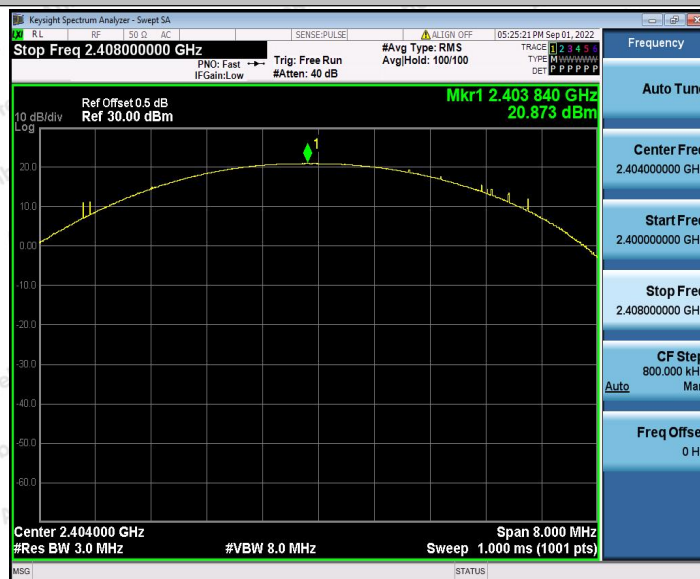
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4	Ant1	2404	20.87	≤30	PASS
		2439.1	20.43	≤30	PASS
		2474.2	20.01	≤30	PASS

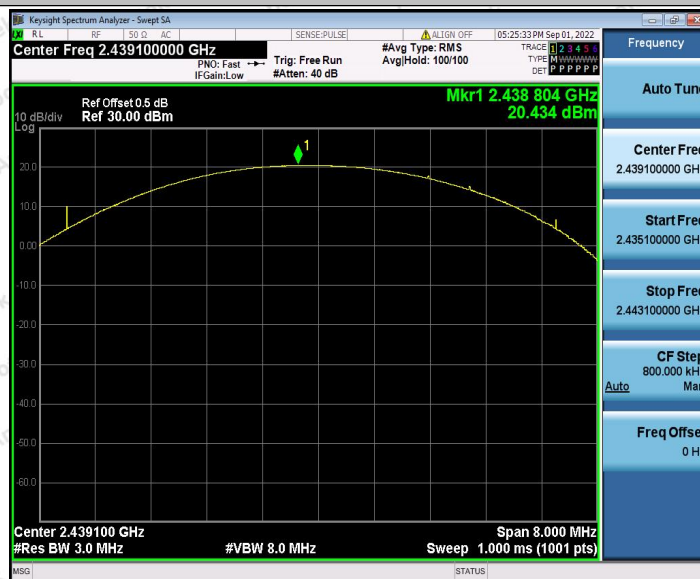


Test Graphs

2.4_Ant1_2404



2.4_Ant1_2439.1



2.4_Ant1_2474.2

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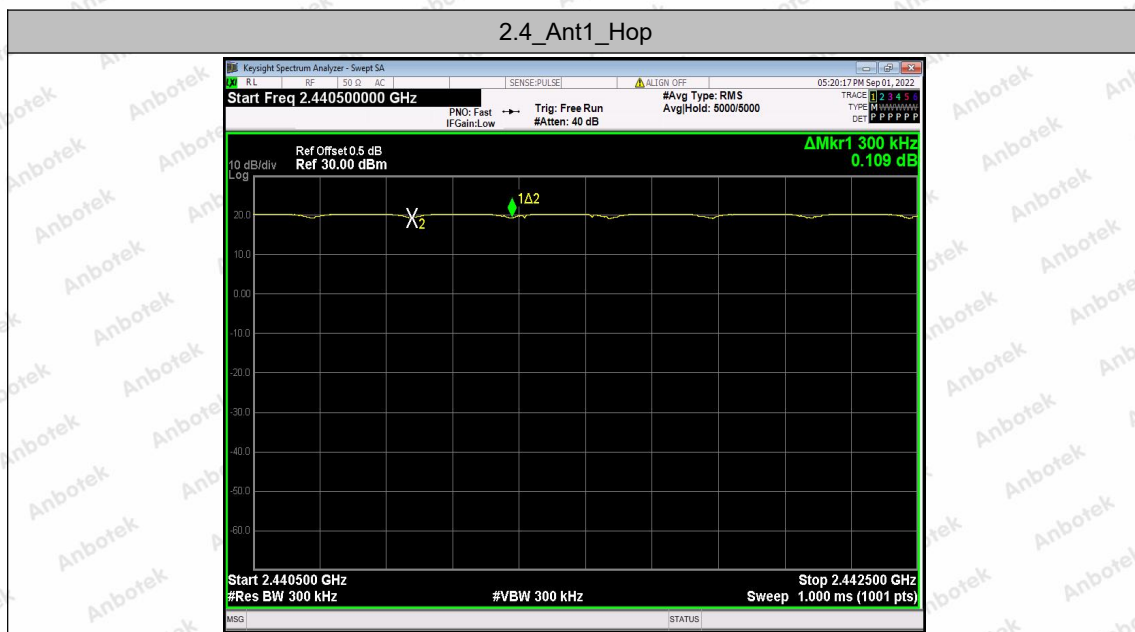


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4	Ant1	Hop	0.3	≥0.174	PASS

Test Graphs



Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
2.4	Ant1	Hop	8.168	45	0.368	≤0.4	PASS

Test Graphs



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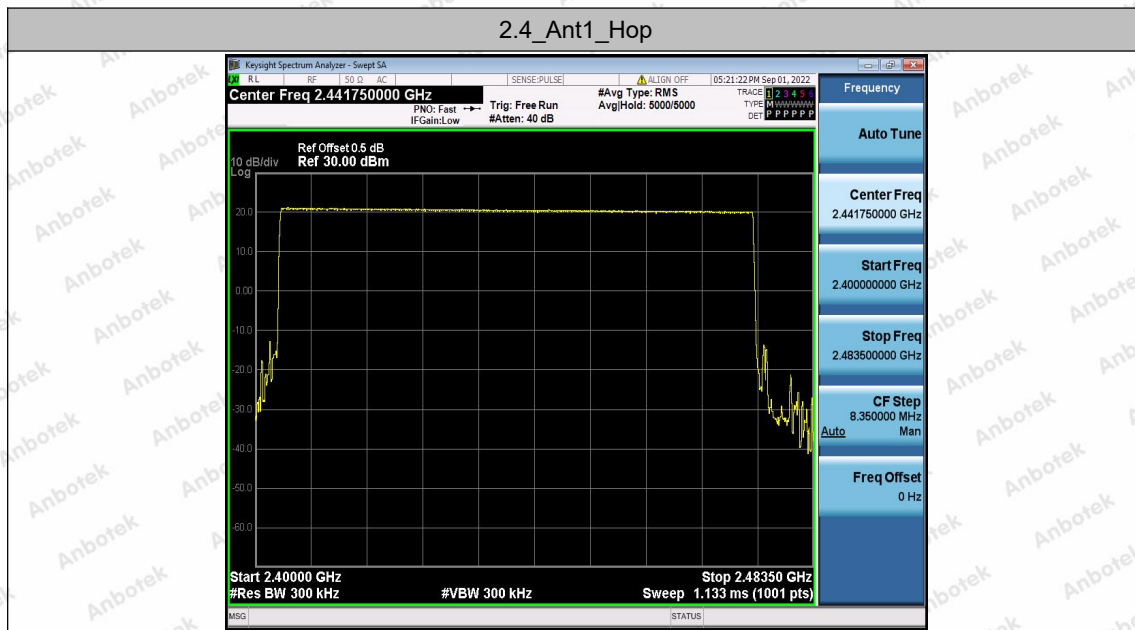


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4	Ant1	Hop	235	≥15	PASS

Test Graphs



Appendix G: Band edge measurements

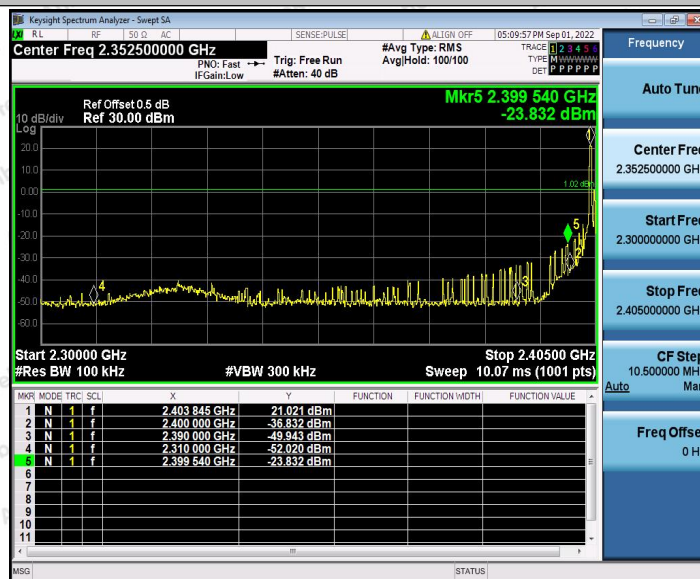
Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4	Ant1	Low	2404	21.02	-23.83	≤1.02	PASS
		High	2474.2	20.32	-32.3	≤0.32	PASS
		Low	Hop_2402	20.85	-34.92	≤0.84	PASS
		High	Hop_2480	20.23	-42.98	≤0.23	PASS

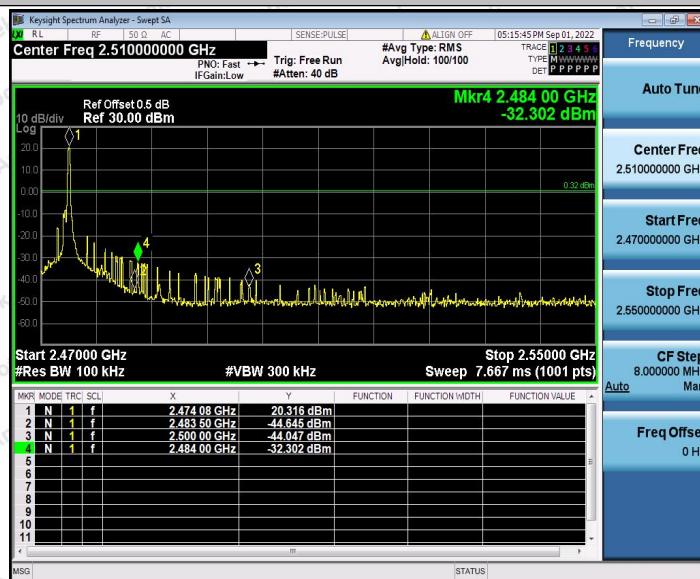


Test Graphs

2.4_Ant1_Low_2404



2.4_Ant1_High_2474.2



2.4_Ant1_Low_Hop_2402

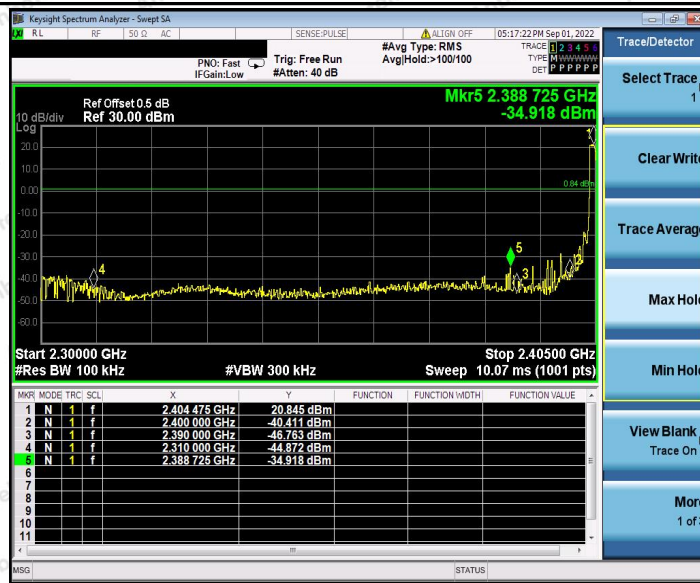
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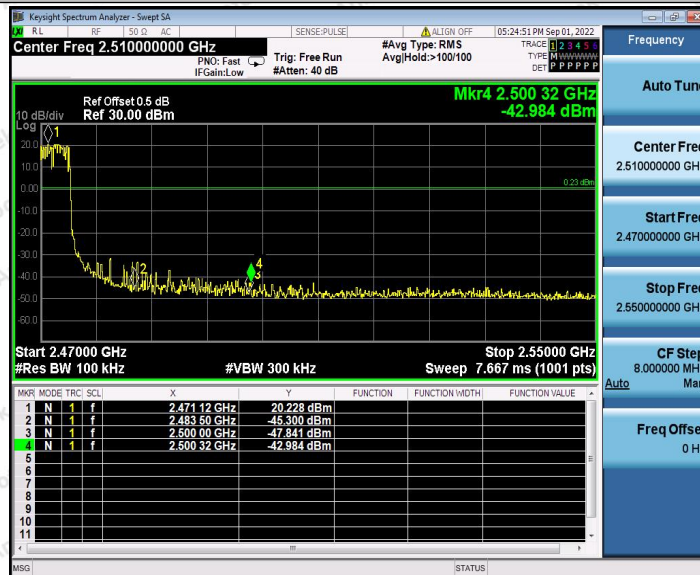


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2.4_Ant1_High_Hop_2480



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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4	Ant1	2404	Reference	20.95	20.95	---	PASS
			30~1000	20.95	-69.52	≤-9.05	PASS
			1000~26500	20.95	-27.29	≤-9.05	PASS
		2439.1	Reference	20.45	20.45	---	PASS
			30~1000	20.45	-68.74	≤-9.55	PASS
			1000~26500	20.45	-24.82	≤-9.55	PASS
		2474.2	Reference	20.04	20.04	---	PASS
			30~1000	20.04	-69.63	≤-9.96	PASS
			1000~26500	20.04	-22.66	≤-9.96	PASS

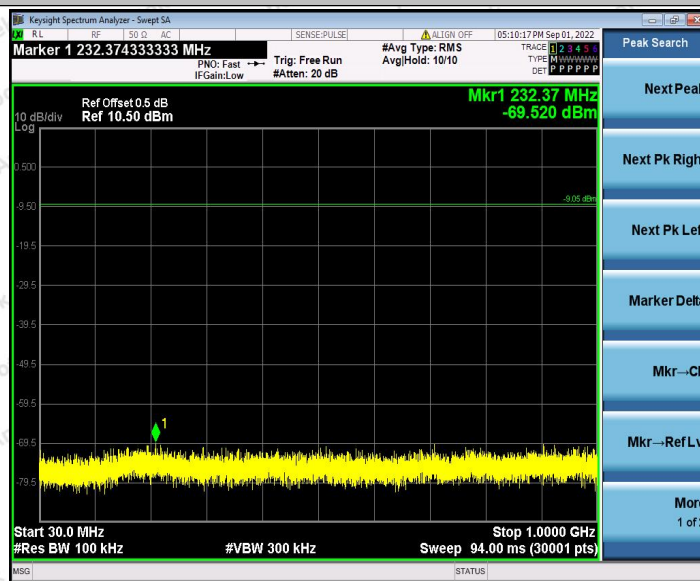


Test Graphs

2.4_Ant1_2404_0~Reference



2.4_Ant1_2404_30~1000



2.4_Ant1_2404_1000~26500

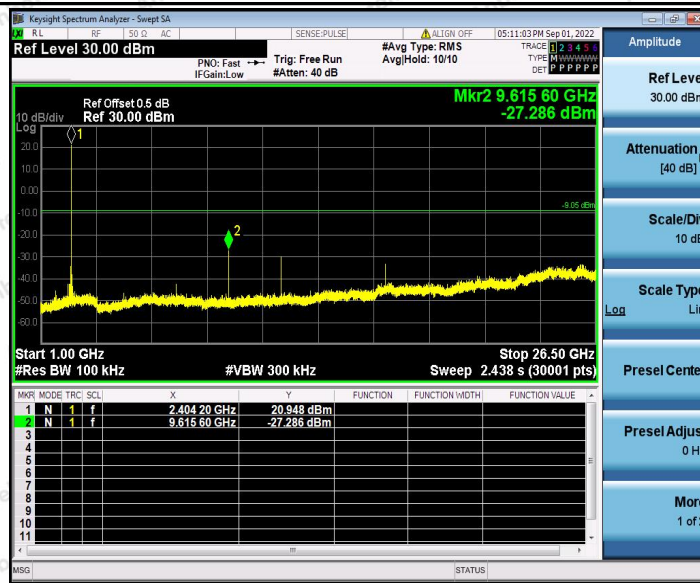
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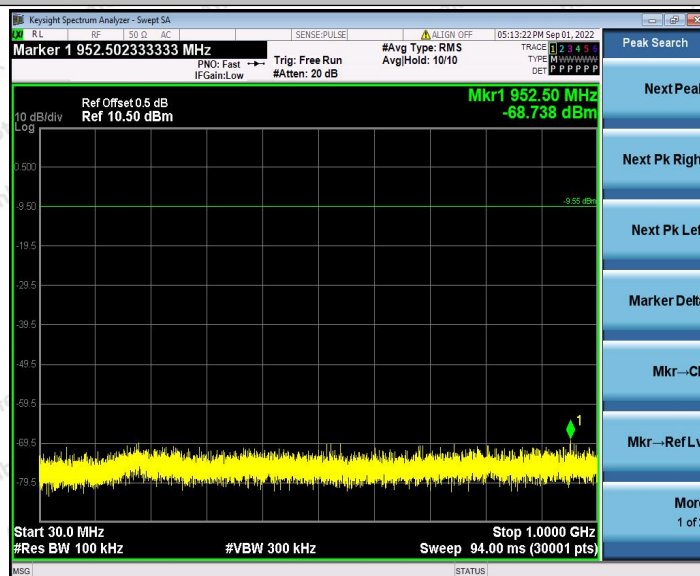




2.4_Ant1_2439.1_0~Reference



2.4_Ant1_2439.1_30~1000



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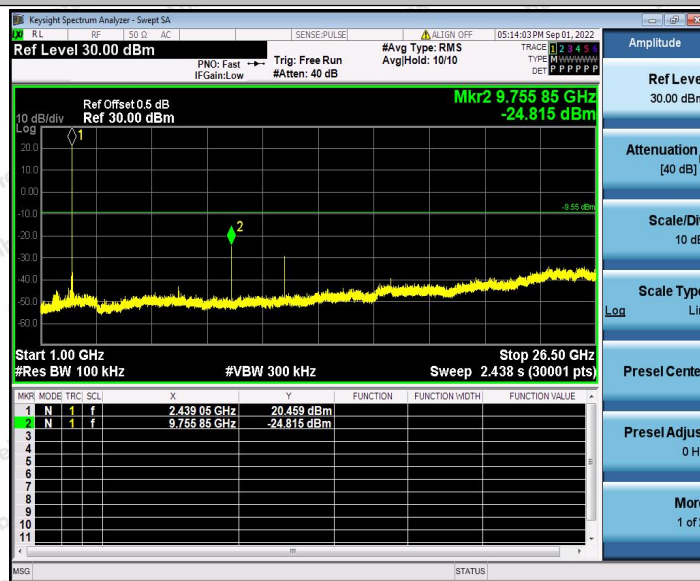
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2.4_Ant1_2439.1_1000~26500



2.4_Ant1_2474.2_0~Reference



2.4_Ant1_2474.2_30~1000

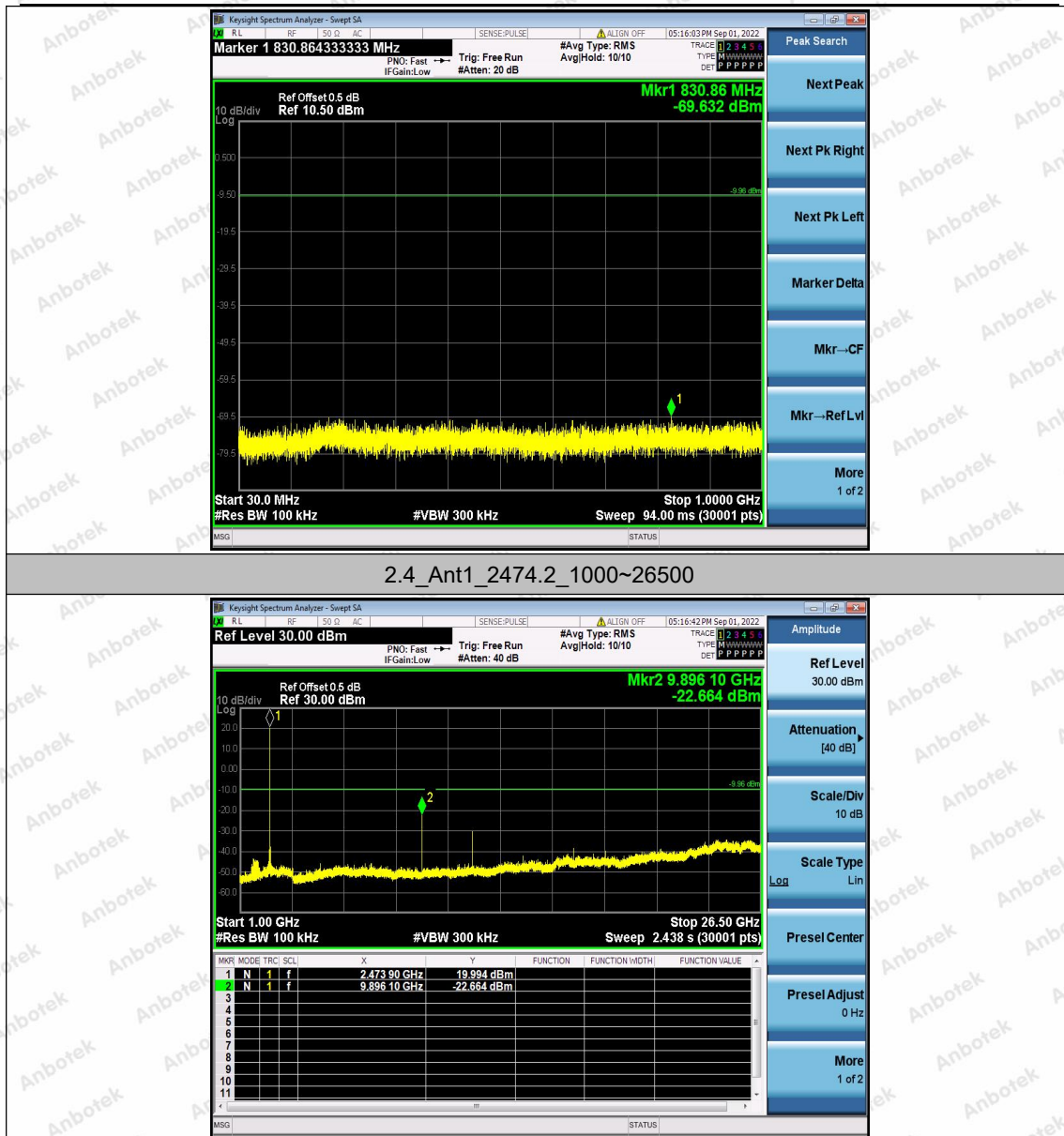
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Appendix I: Duty Cycle

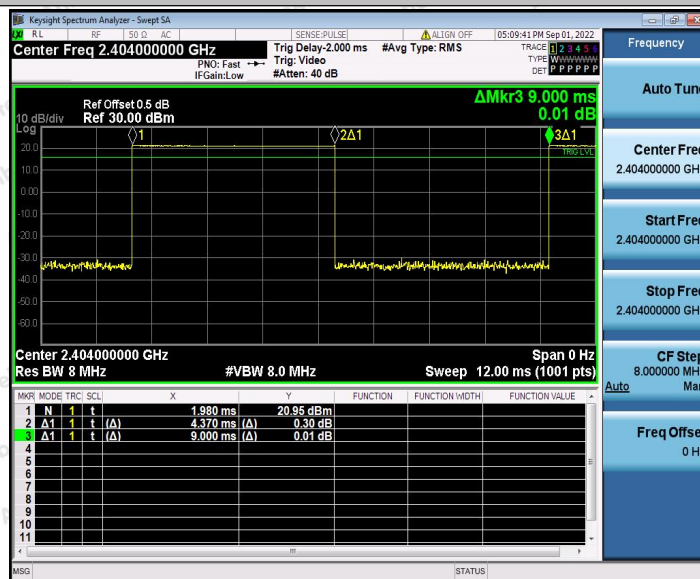
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4	Ant1	2404	4.37	9.00	48.56	3.14
		2439.1	4.36	9.00	48.44	3.15
		2474.2	4.36	9.00	48.44	3.15

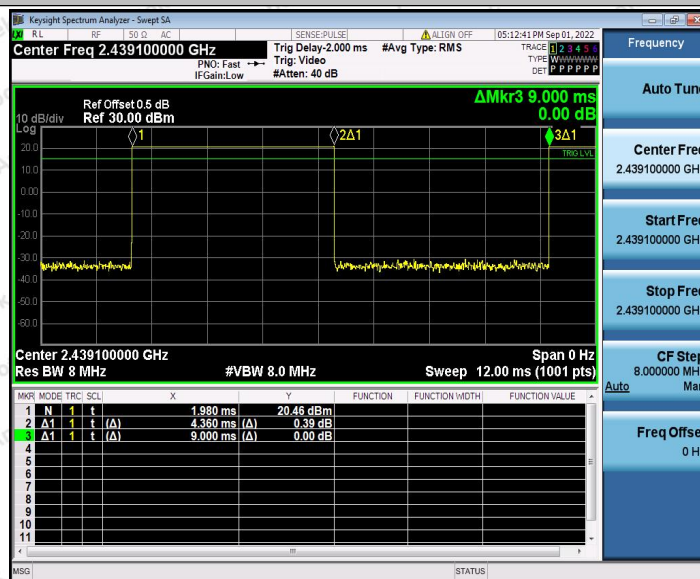


Test Graphs

2.4_Ant1_2404



2.4_Ant1_2439.1



2.4_Ant1_2474.2

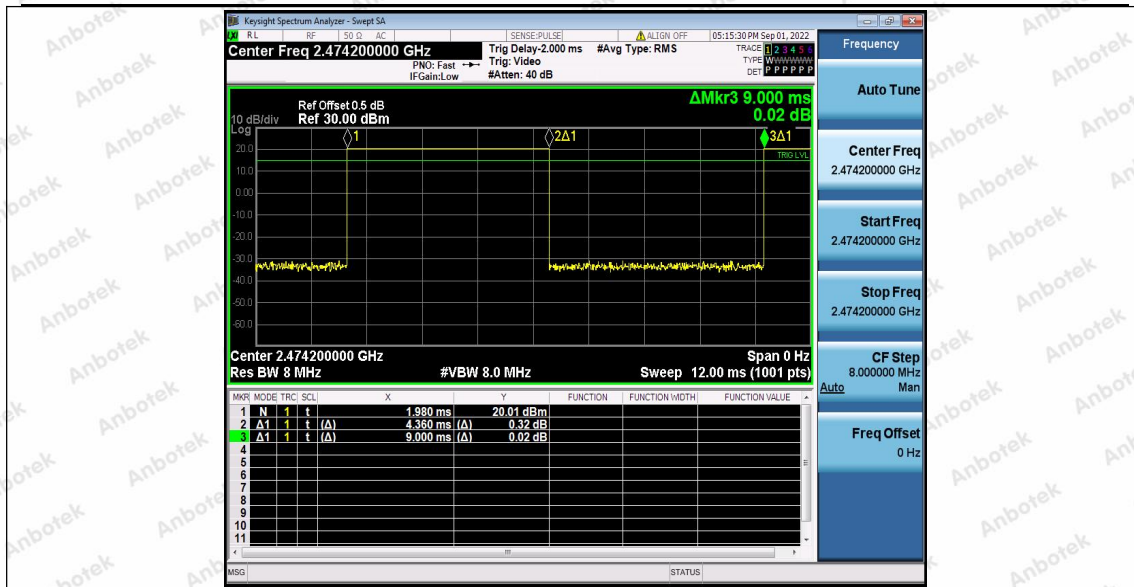
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