

Appendix Test Data

Report No.:	18220WC20261903	Test Sample No.:	1-2-2
Start Test Date:	2022.11.11	Finish Test Date:	2022.12.09
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	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	Ant2	2402.4	0.780	2402.019	2402.799
		2441.4	0.795	2441.004	2441.799
		2479.4	0.777	2479.016	2479.793

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Test Graphs

2.4G_Ant2_2402.4



2.4G_Ant2_2441.4



2.4G_Ant2_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	Ant2	2402.4	0.72475	2402.0405	2402.7652
		2441.4	0.73989	2441.0331	2441.7729
		2479.4	0.74279	2479.0305	2479.7733

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Test Graphs

2.4G_Ant2_2402.4



2.4G_Ant2_2441.4



2.4G_Ant2_2479.4

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Appendix C: Maximum conducted output power

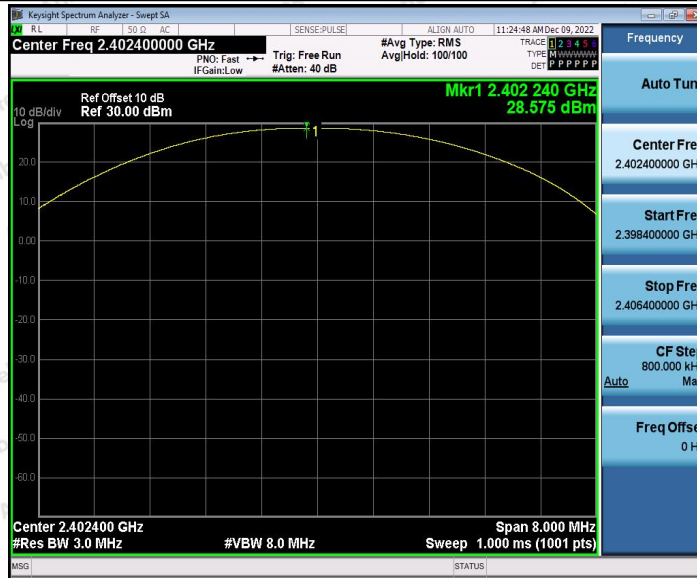
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant2	2402.4	28.58	≤30	PASS
		2441.4	28.38	≤30	PASS
		2479.4	28.4	≤30	PASS

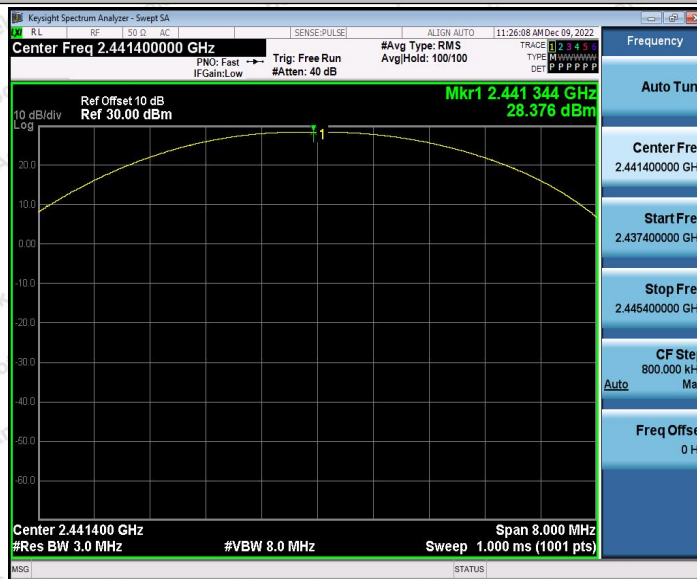


Test Graphs

2.4G_Ant2_2402.4



2.4G_Ant2_2441.4



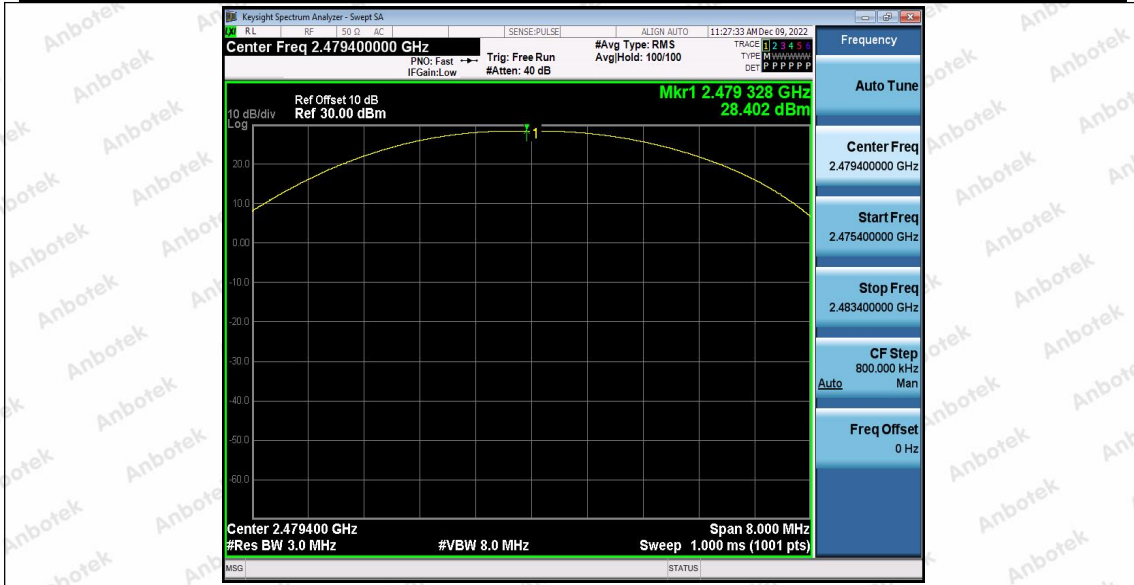
2.4G_Ant2_2479.4

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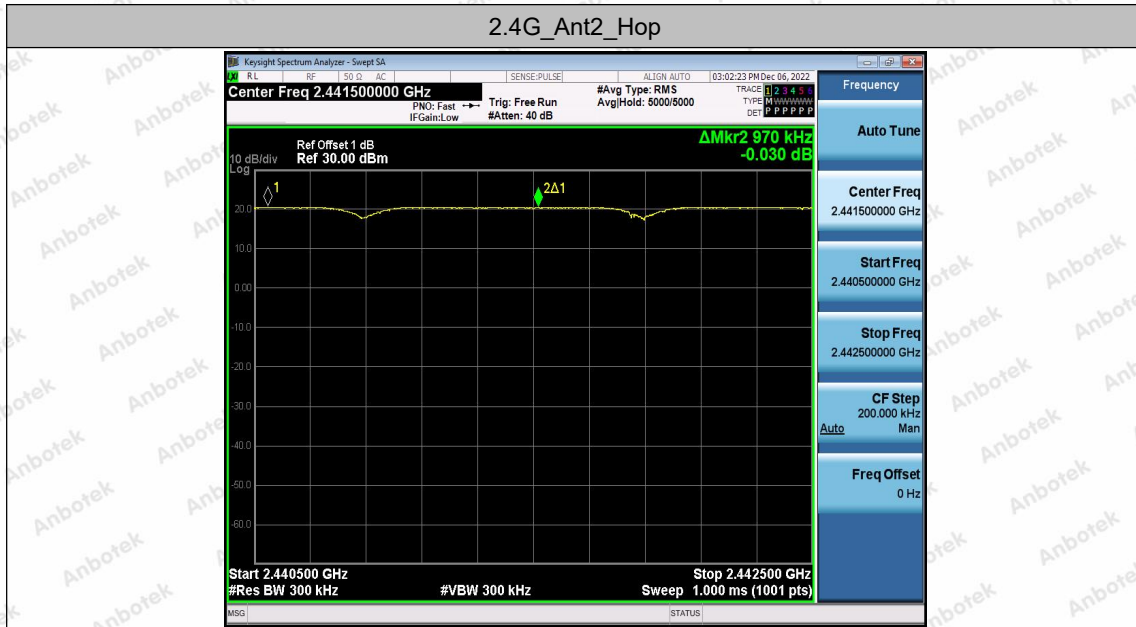
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant2	Hop	0.97	≥0.795	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	Ant2	Hop	1.536	50	0.077	≤0.4	PASS



Test Graphs



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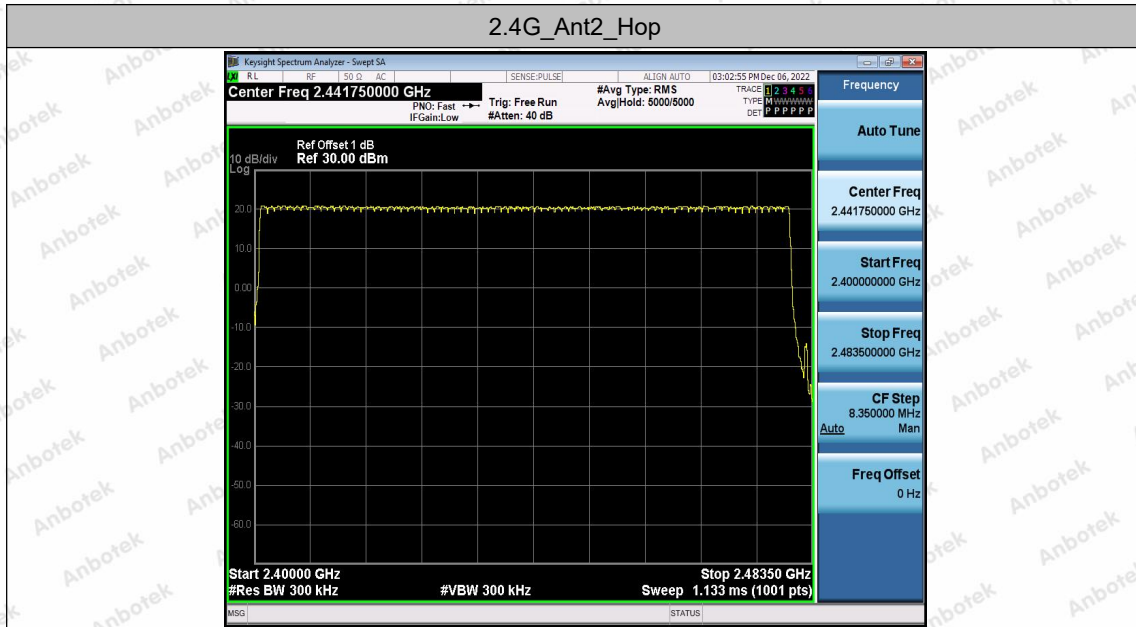
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant2	Hop	78	≥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	Ant2	Low	2402.4	28.31	-14.87	≤8.31	PASS
		High	2479.4	27.89	-33.45	≤7.89	PASS
		Low	Hop_2402	20.64	-43.09	≤0.64	PASS
		High	Hop_2480	20.50	-40.49	≤0.5	PASS

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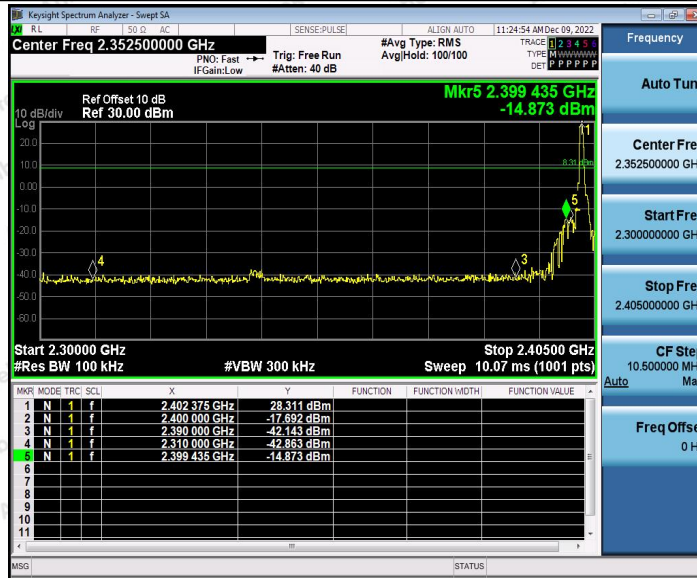


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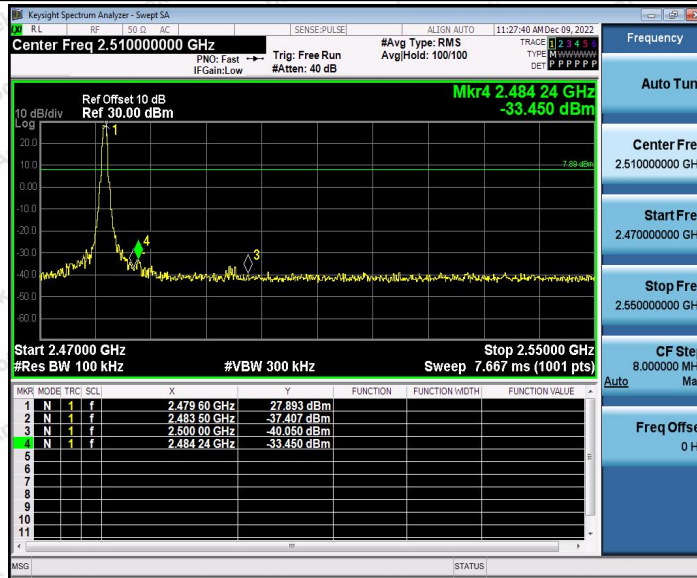


Test Graphs

2.4G_Ant2_Low_2402.4



2.4G_Ant2_High_2479.4



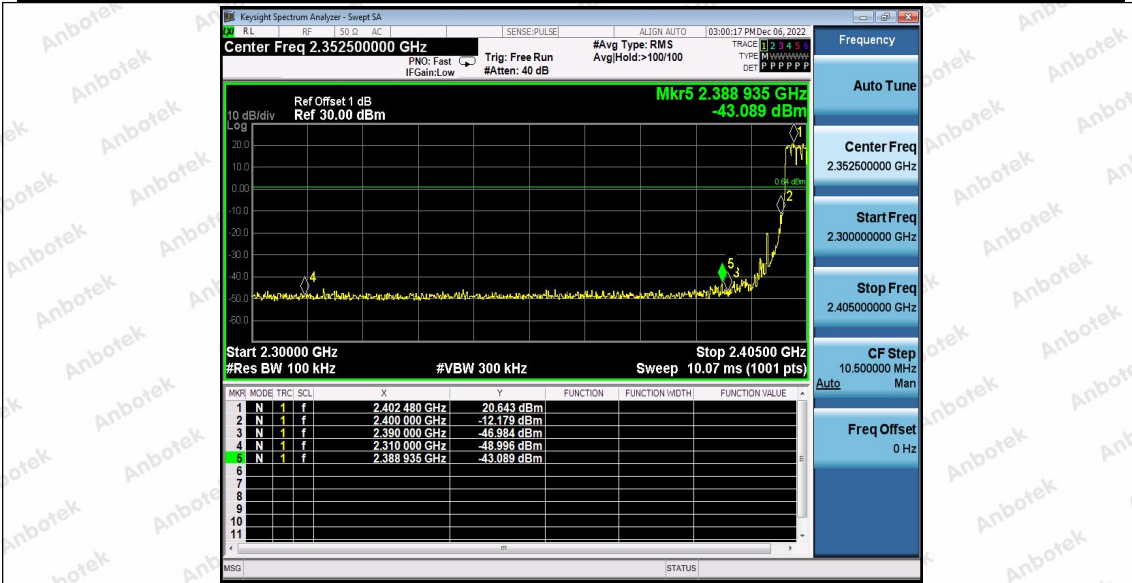
2.4G_Ant2_Low_Hop_2402

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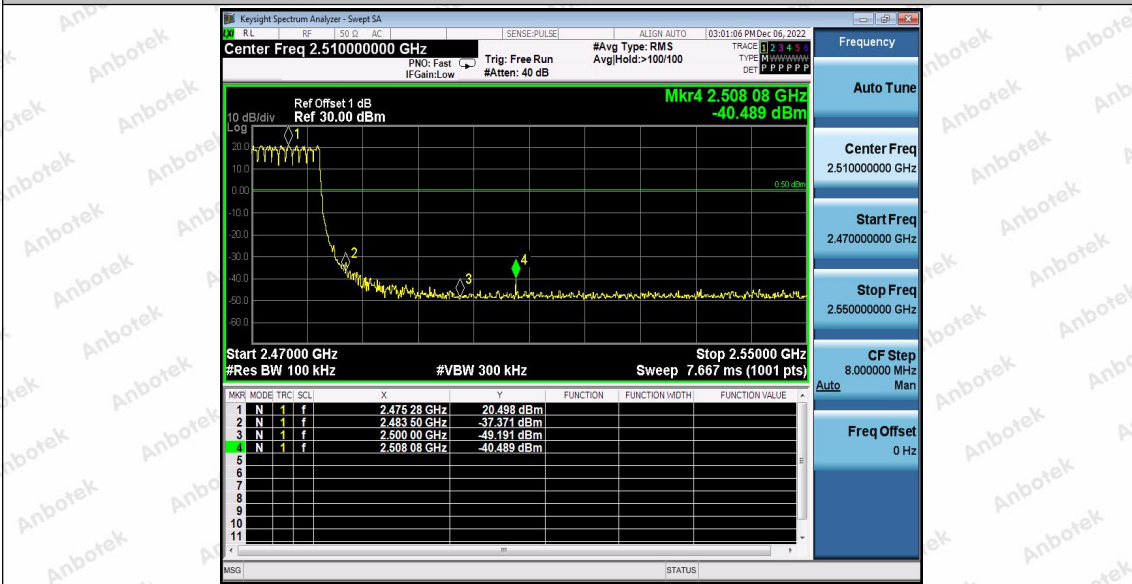
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2.4G_Ant2_High_Hop_2480



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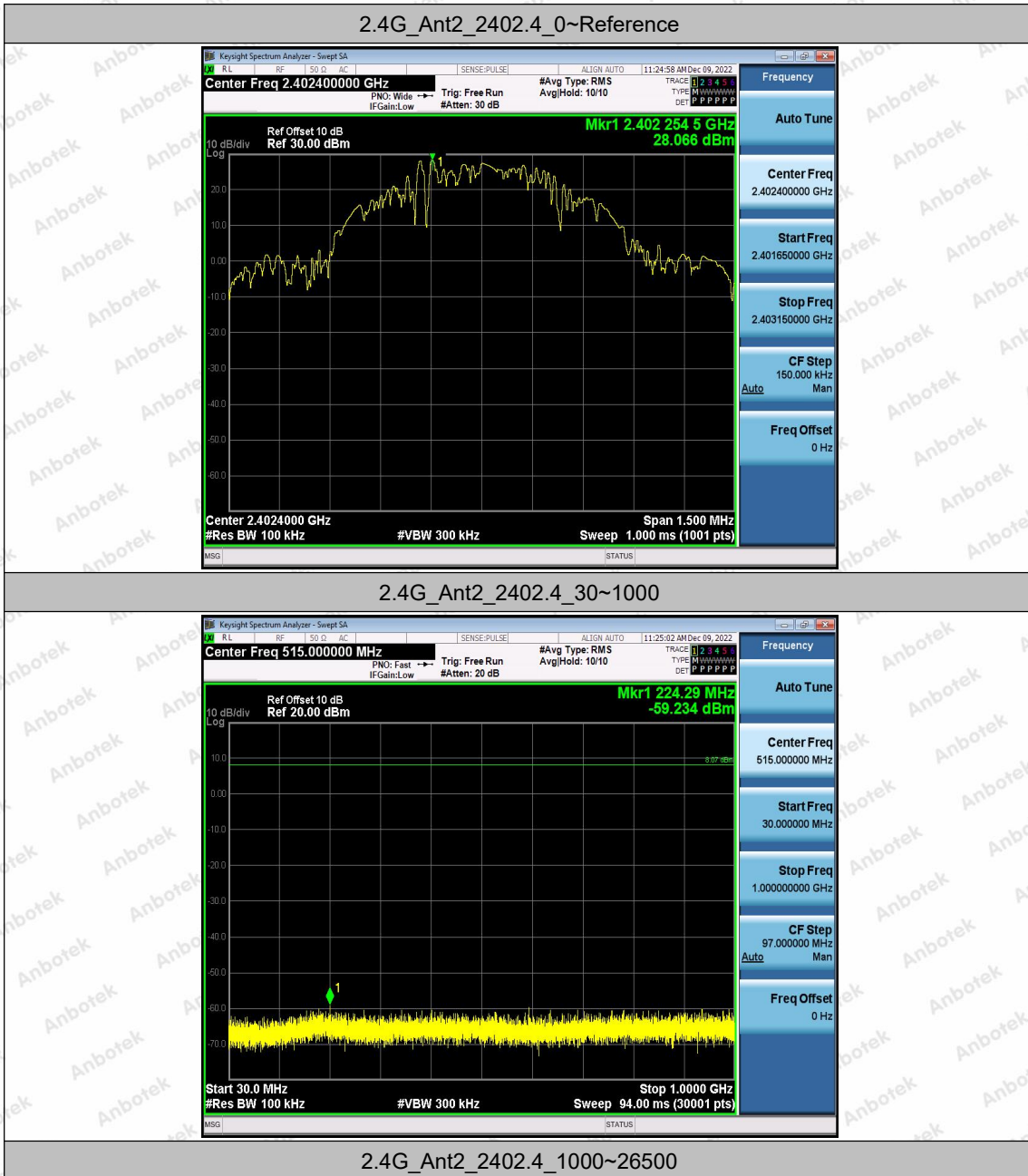
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant2	2402.4	Reference	28.07	28.07	---	PASS
			30~1000	28.07	-59.23	≤8.07	PASS
			1000~26500	28.07	-44.41	≤8.07	PASS
		2441.4	Reference	28.14	28.14	---	PASS
			30~1000	28.14	-59.99	≤8.14	PASS
			1000~26500	28.14	-43.65	≤8.14	PASS
		2479.4	Reference	28.31	28.31	---	PASS
			30~1000	28.31	-59.55	≤8.31	PASS
			1000~26500	28.31	-43.3	≤8.31	PASS



Test Graphs

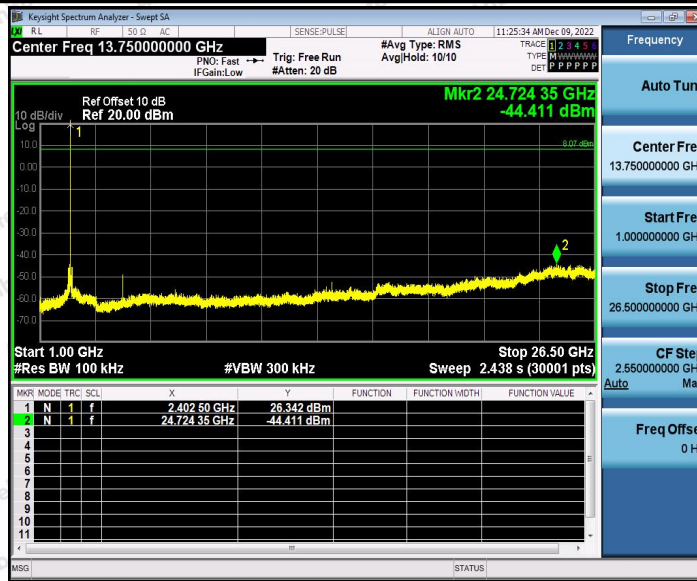


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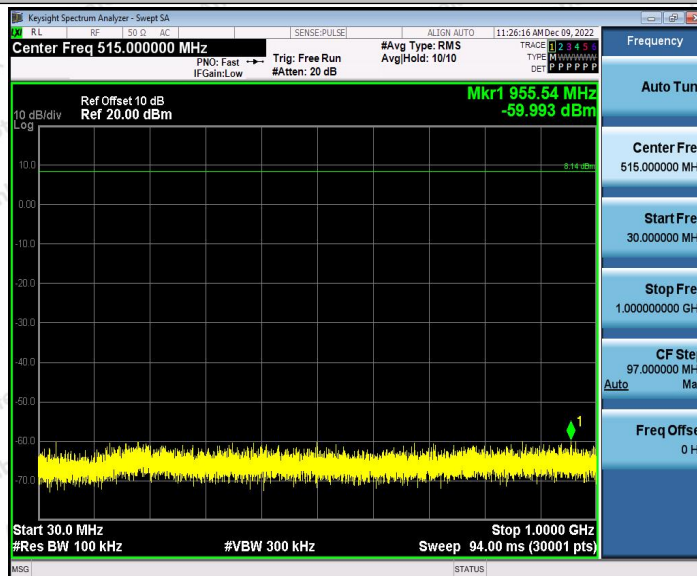




2.4G_Ant2_2441.4_0~Reference



2.4G_Ant2_2441.4_30~1000



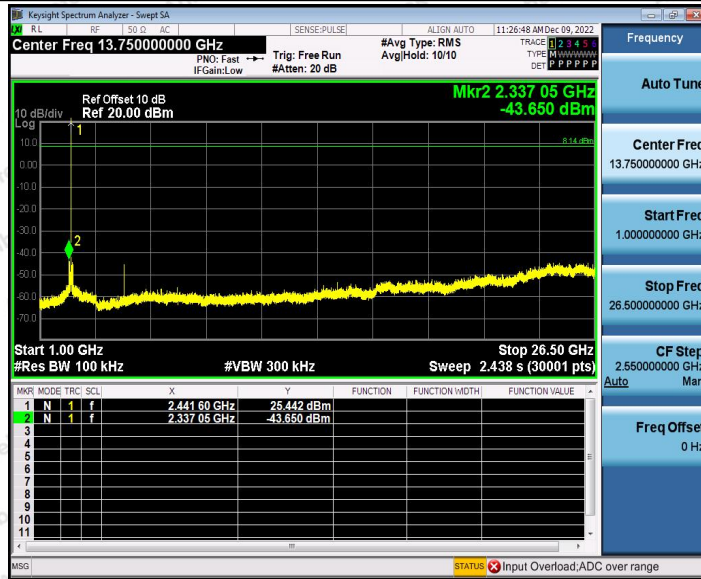
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2.4G_Ant2_2441.4_1000~26500



2.4G_Ant2_2479.4_0~Reference



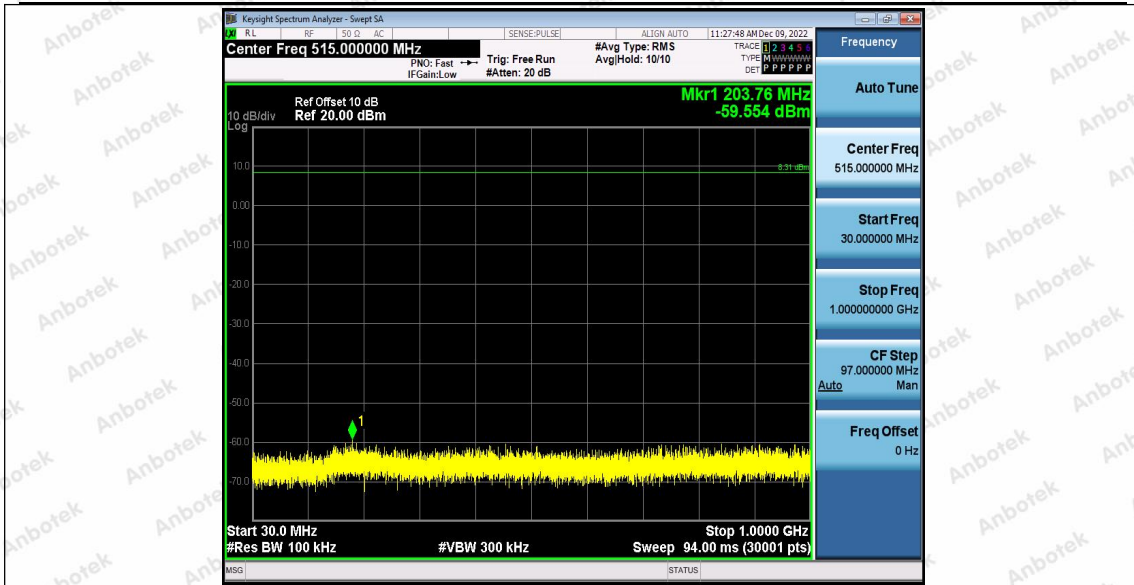
2.4G_Ant2_2479.4_30~1000

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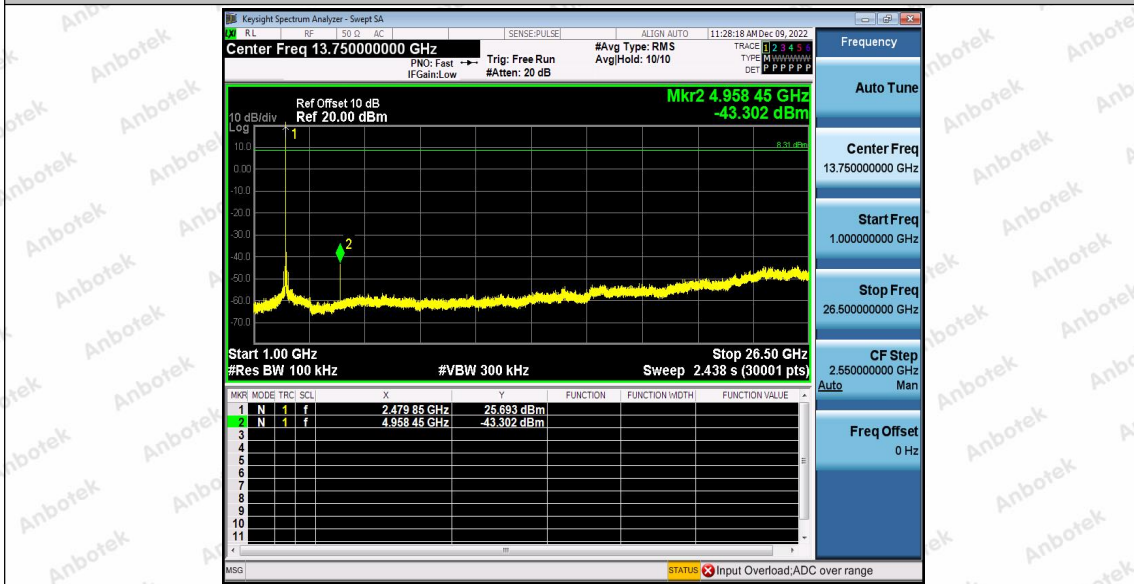
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2.4G_Ant2_2479.4_1000~26500



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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	Ant2	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

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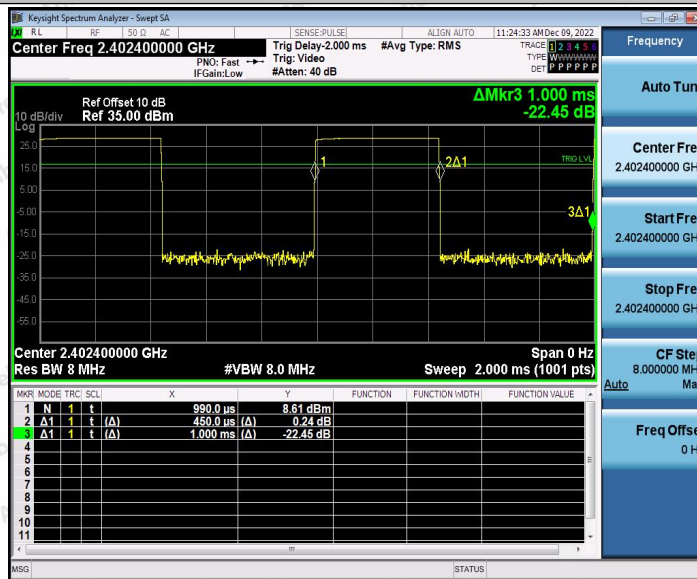


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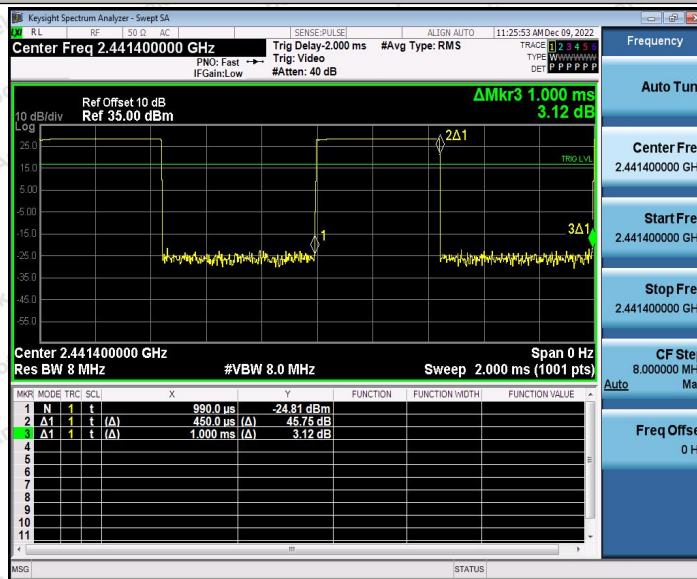


Test Graphs

2.4G_Ant2_2402.4



2.4G_Ant2_2441.4



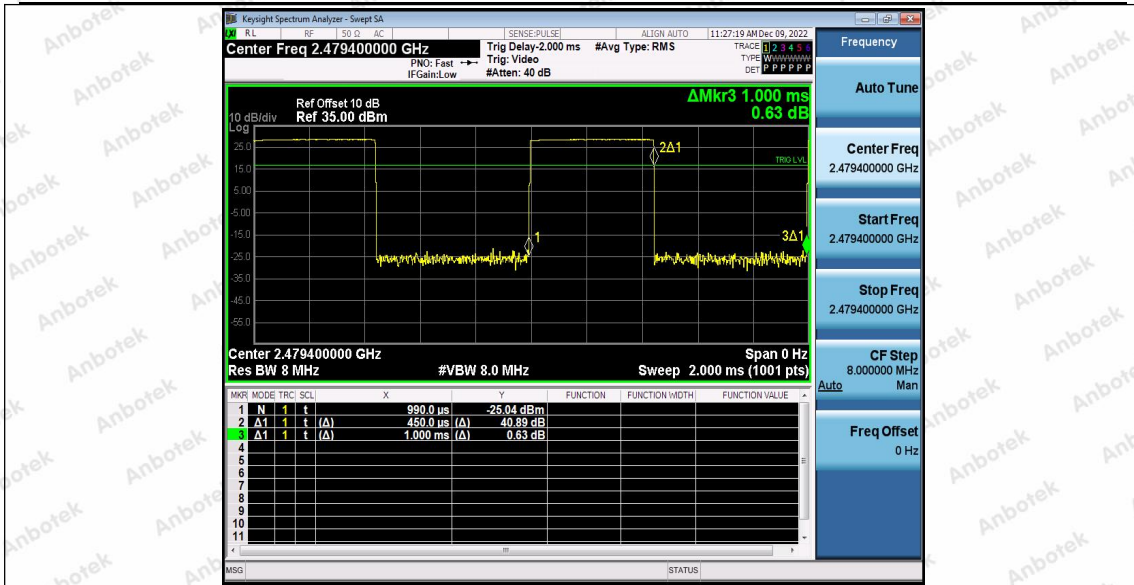
2.4G_Ant2_2479.4

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