

Appendix Test Data

Report No.:	18220WC20075601	Test Sample No.:	1-2-2
Start Test Date:	2022.4.24	Finish Test Date:	2022.5.18
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.2 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403.4	0.990	2402.917	2403.907	---	PASS
		2441.4	1.017	2440.881	2441.898	---	PASS
		2479.4	1.002	2478.914	2479.916	---	PASS

Test Graphs

2.4_Ant1_2403.4



2.4_Ant1_2441.4



2.4_Ant1_2479.4

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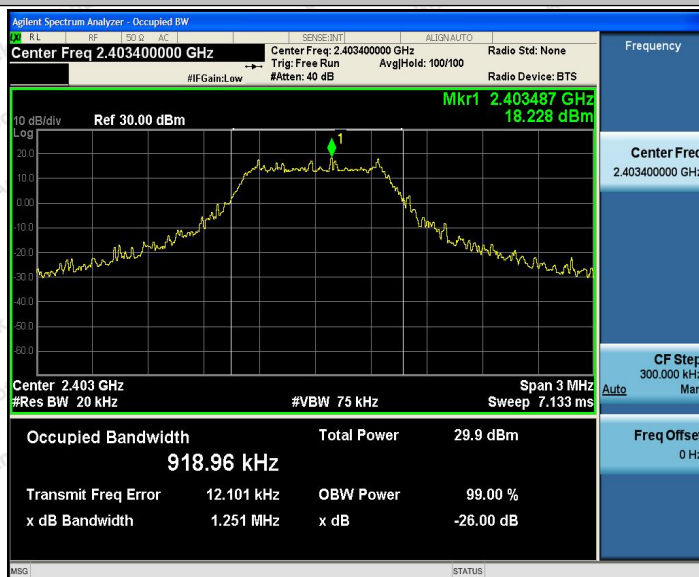
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403.4	0.91896	2402.953	2403.872	---	PASS
		2441.4	0.90196	2440.958	2441.860	---	PASS
		2479.4	0.91041	2478.957	2479.868	---	PASS

Test Graphs

2.4_Ant1_2403.4



2.4_Ant1_2441.4



2.4_Ant1_2479.4

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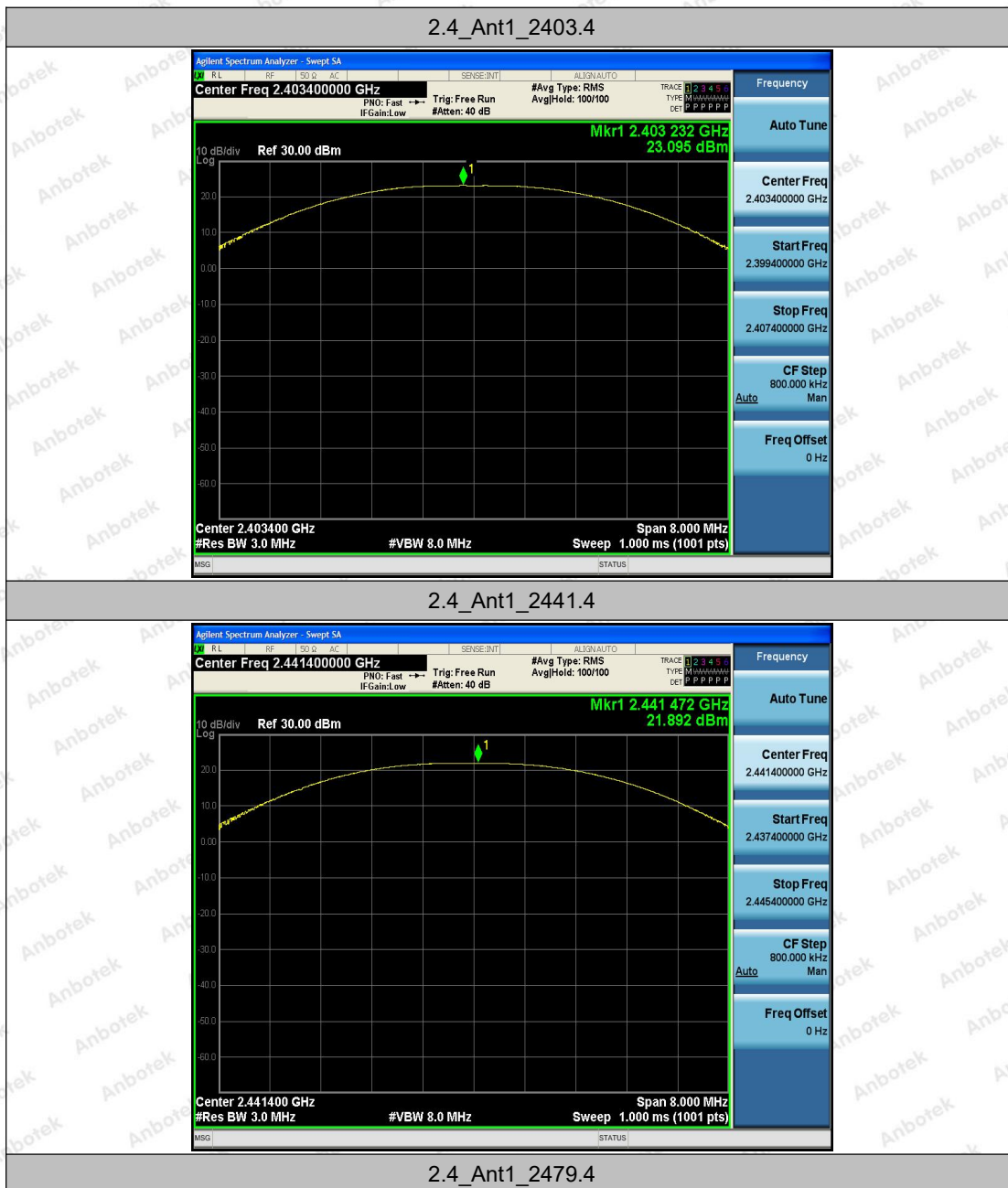
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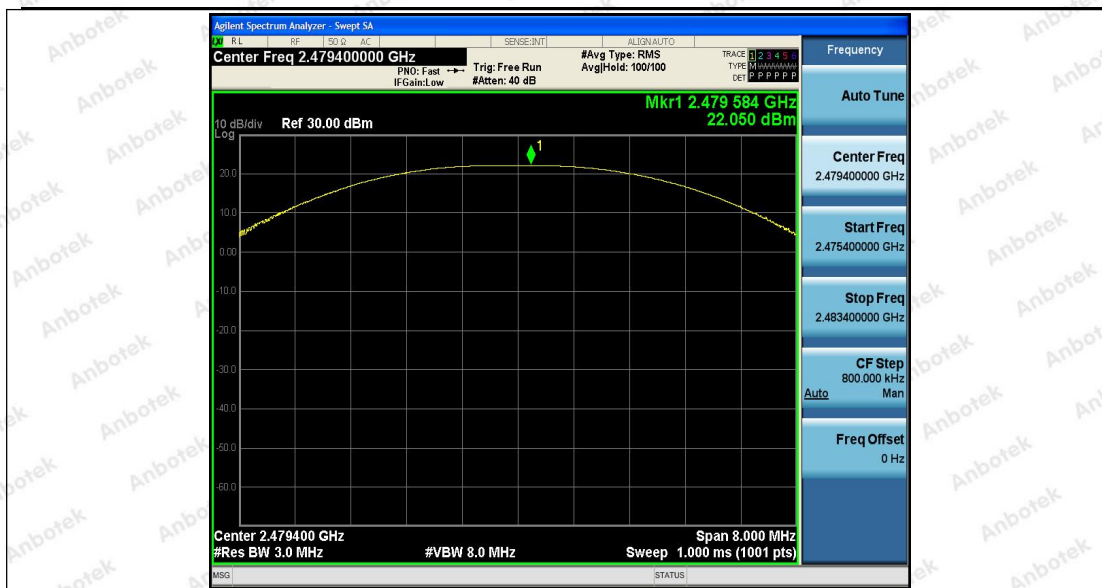
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
2.4G	Ant1	2403.4	23.1	≤30	PASS
		2441.4	21.89	≤30	PASS
		2479.4	22.05	≤30	PASS

Test Graphs





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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.004	≥ 0.025	PASS

Test Graphs

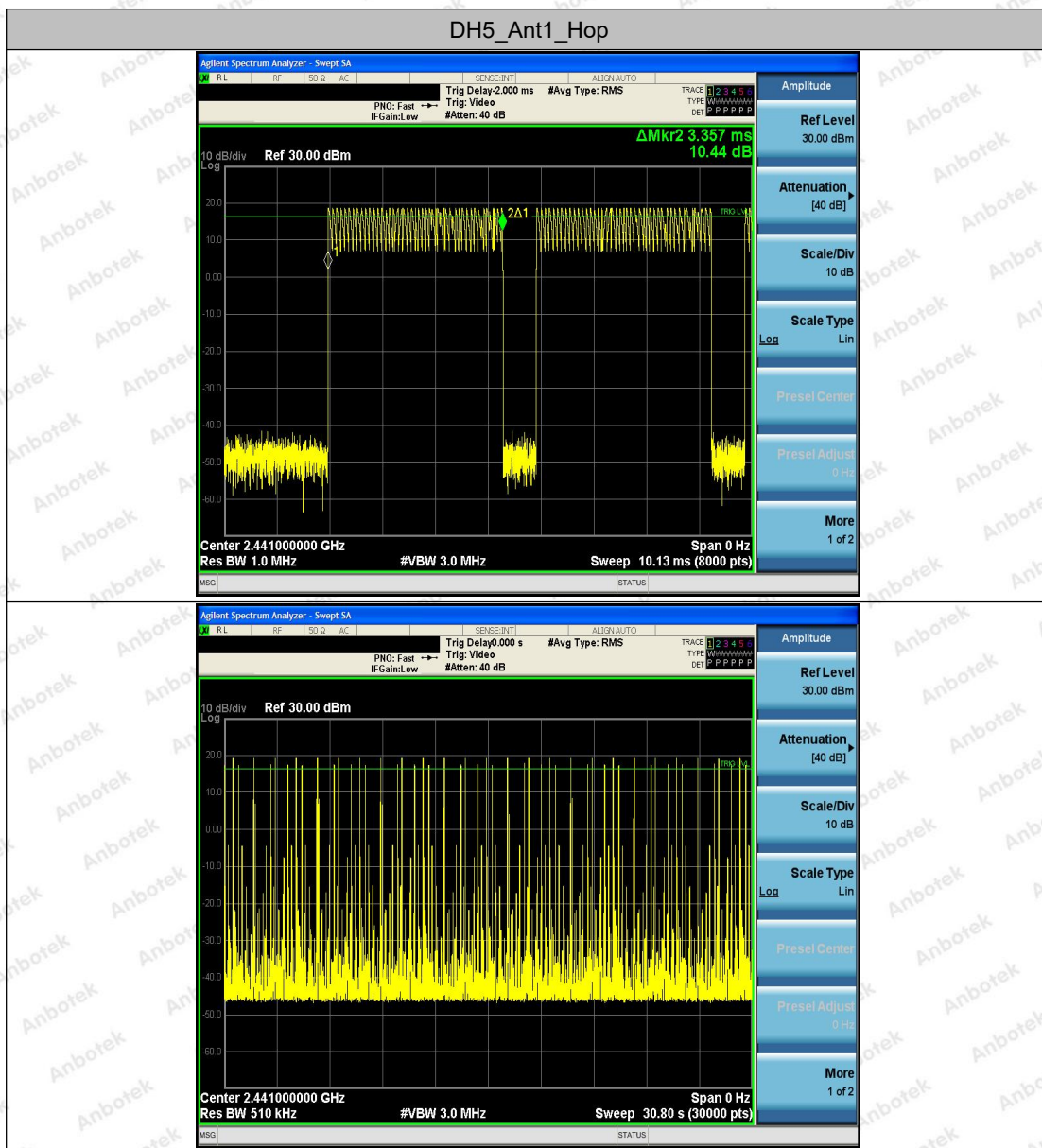


Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	3.36	53	0.178	≤0.4	PASS

Test Graphs



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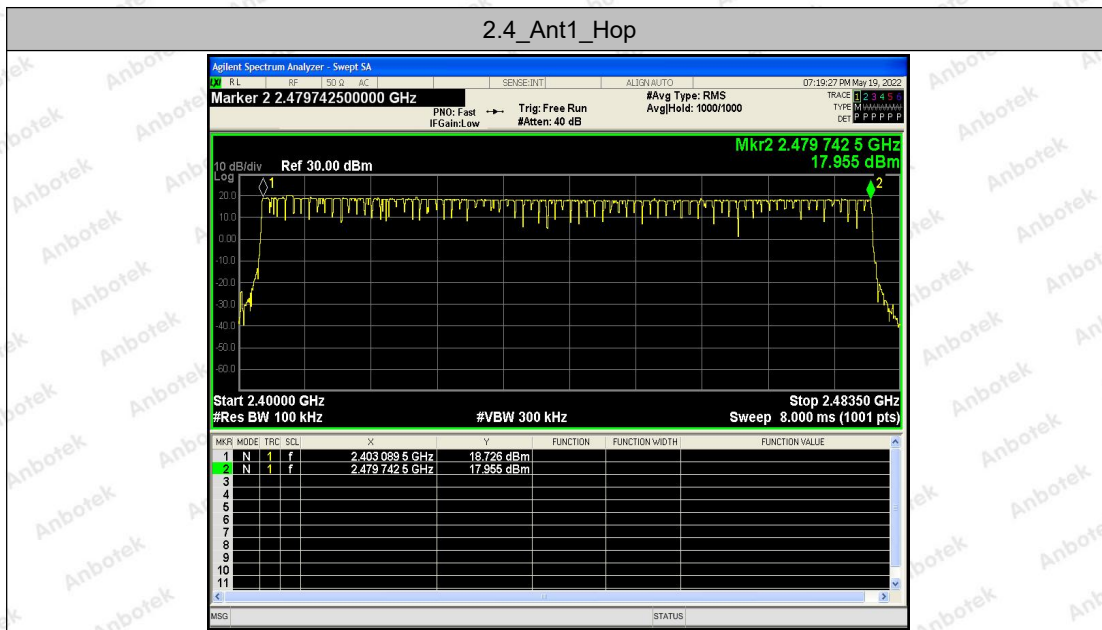
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Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	77	≥15	PASS

Test Graphs



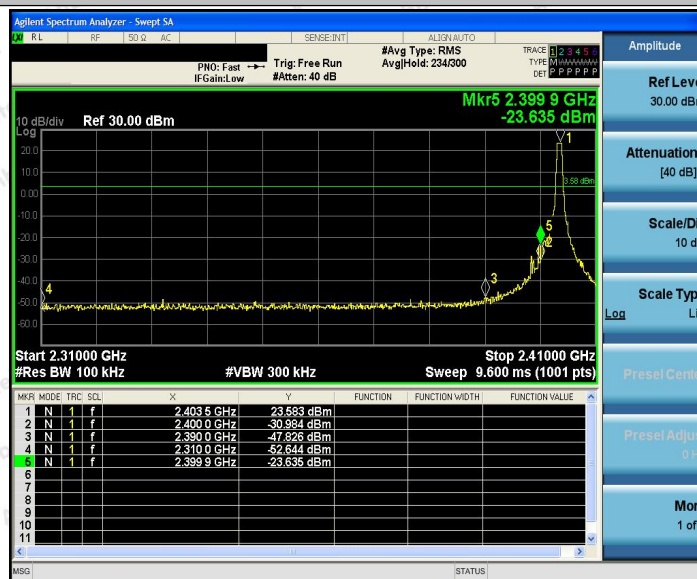
Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403.4	23.58	-23.64	≤3.58	PASS
		High	2479.4	22.32	-32.12	≤2.32	PASS
		Low	Hop	18.92	-42.97	≤-1.08	PASS
		High	Hop	18.17	-50.42	≤-1.83	PASS

Test Graphs

2.4_Ant1_Low_2403.4



2.4_Ant1_High_2479.4



2.4_Ant1_Low_Hop

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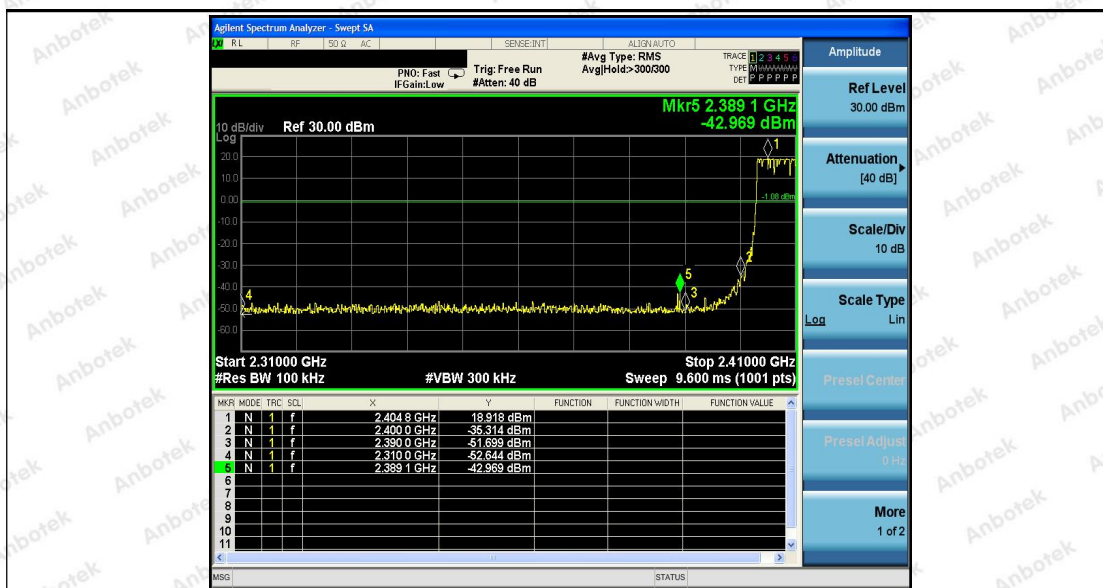
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2.4_Ant1_High_Hop



Appendix H: Conducted Spurious Emission

Test Result

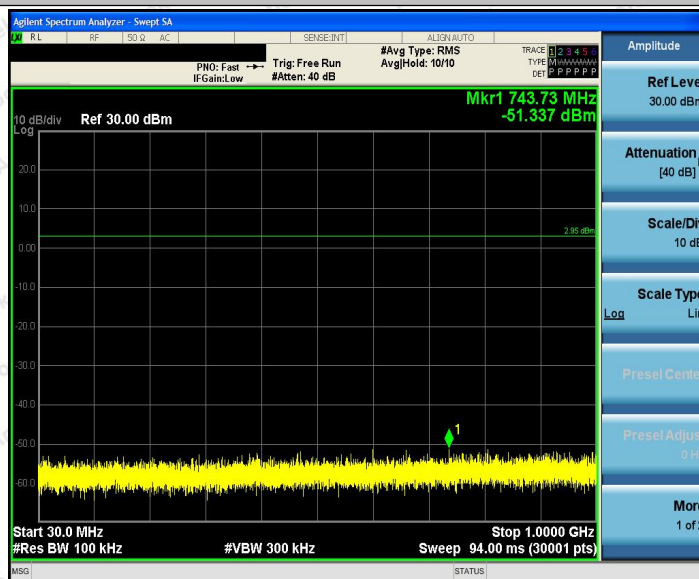
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403.4	Reference	22.95	22.95	---	PASS
			30~1000	22.95	-51.34	≤2.95	PASS
			1000~26500	22.95	-30.24	≤2.95	PASS
		2441.4	Reference	21.76	21.76	---	PASS
			30~1000	21.76	-50.97	≤1.76	PASS
			1000~26500	21.76	-28.01	≤1.76	PASS
		2479.4	Reference	21.91	21.91	---	PASS
			30~1000	21.91	-50.54	≤1.91	PASS
			1000~26500	21.91	-29.76	≤1.91	PASS

Test Graphs

2.4_Ant1_2403.4_0~Reference



2.4_Ant1_2403.4_30~1000



2.4_Ant1_2403.4_1000~26500

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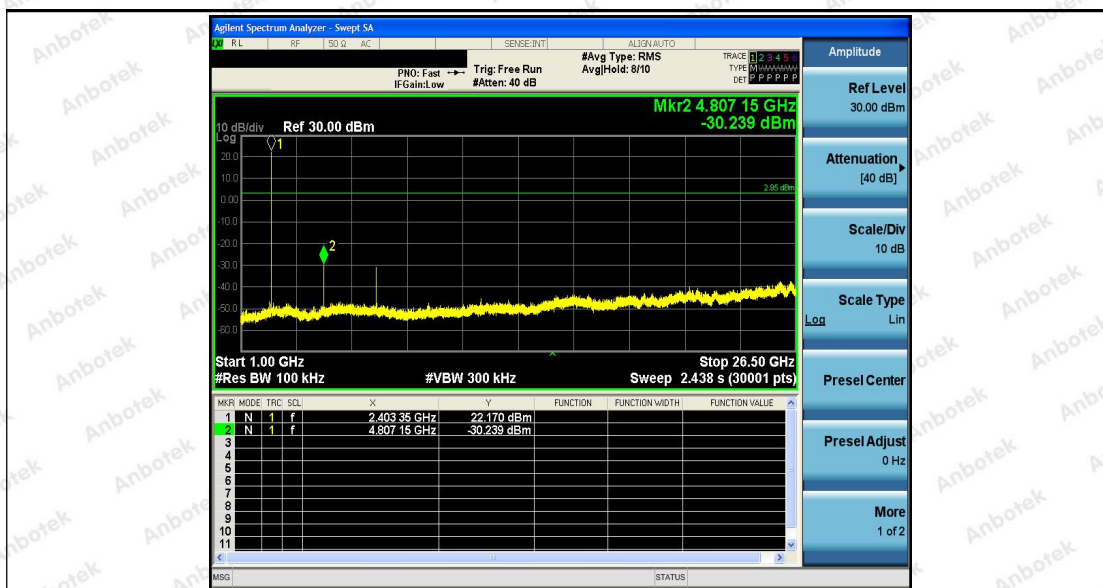
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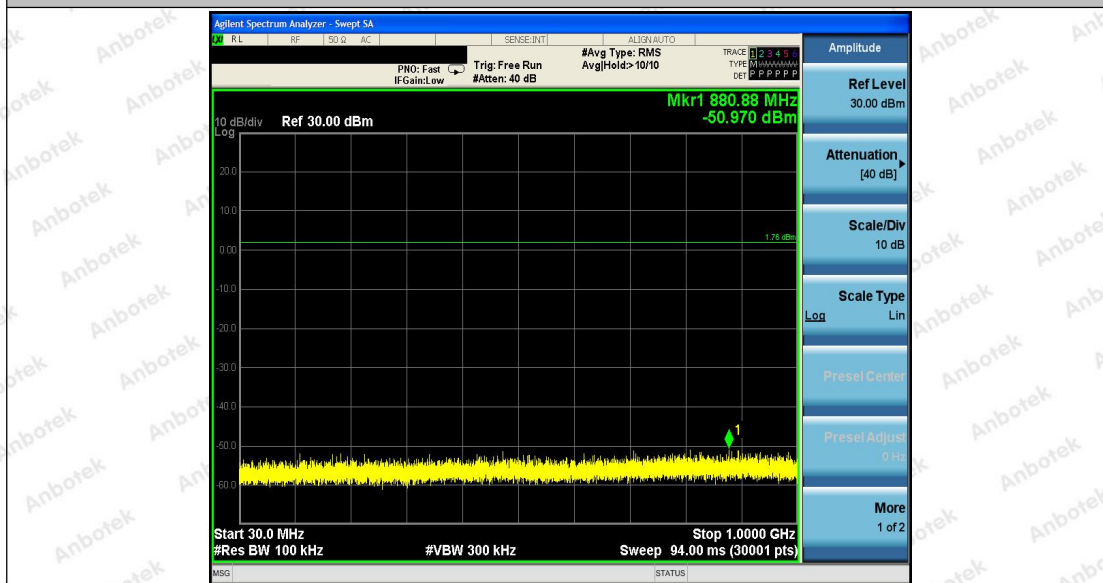
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2.4_Ant1_2441.4_0~Reference



2.4_Ant1_2441.4_30~1000

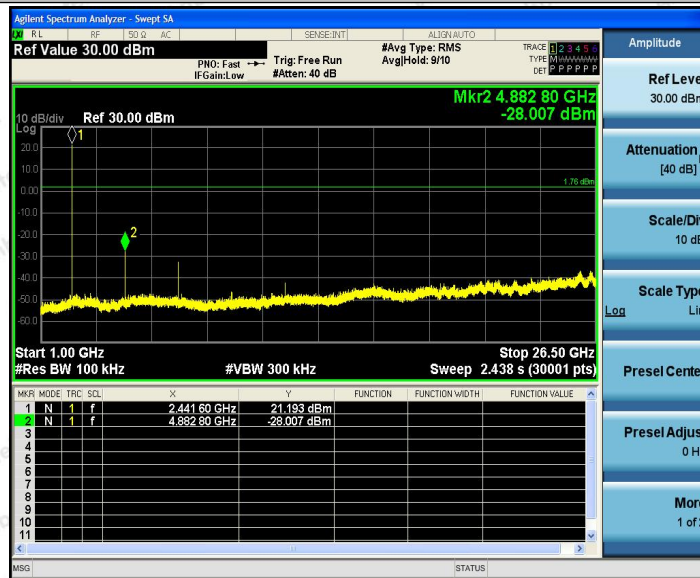


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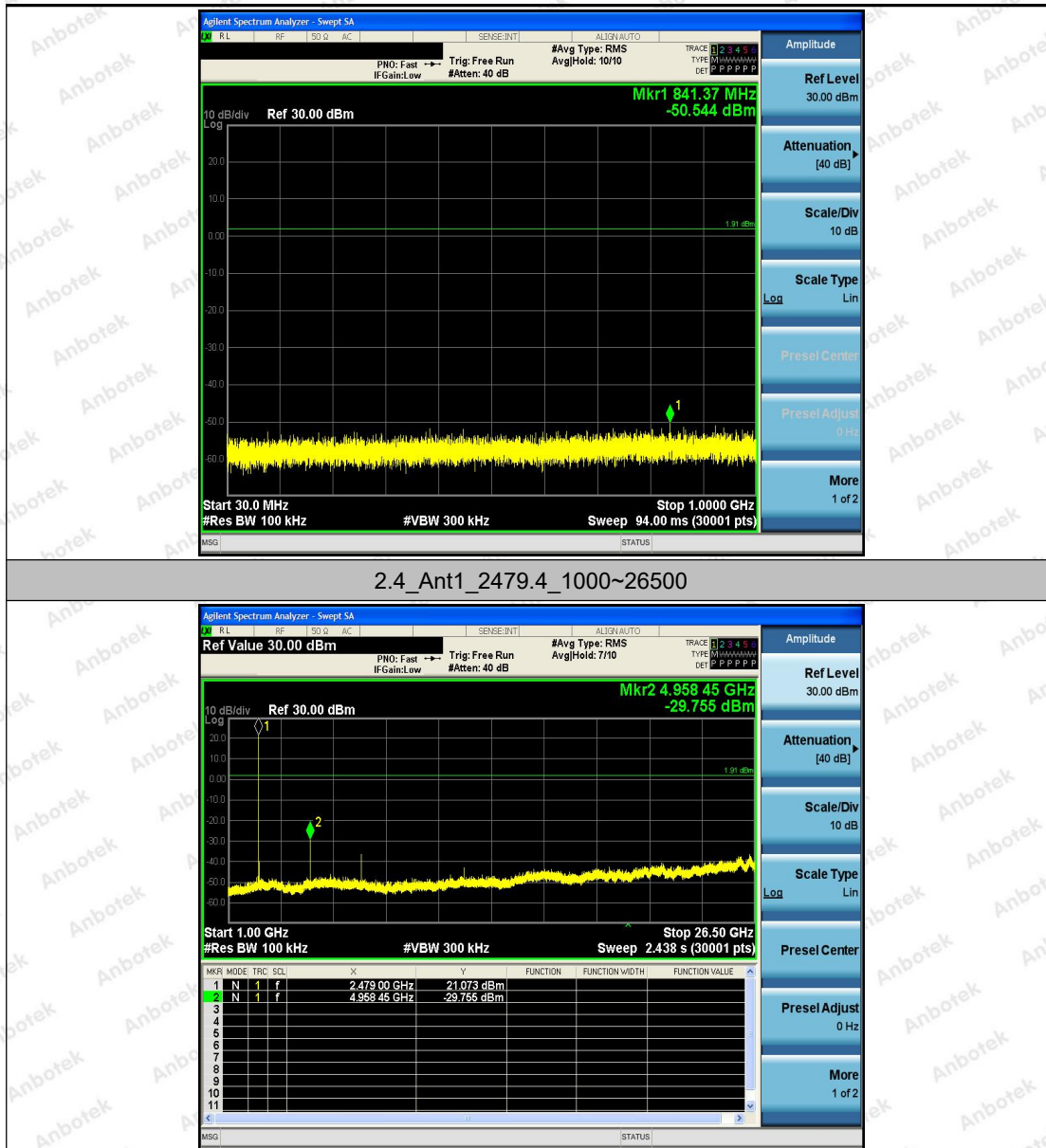
2.4_Ant1_2441.4_1000~26500



2.4_Ant1_2479.4_0~Reference



2.4_Ant1_2479.4_30~1000



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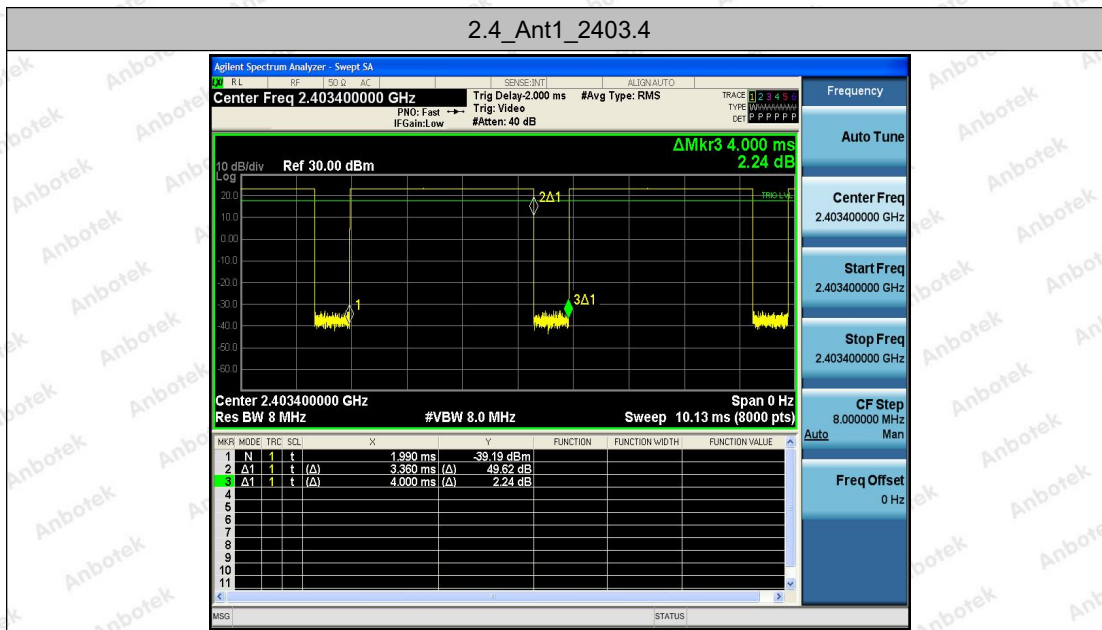
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
2.4G	Ant1	2403.4	3.36	4.00	0.8400	84.00	0.76	---	PASS

Test Graphs



---End---