

Appendix Test Data

Report No.:	18220WC20245301	Test Sample No.:	1-2-2
Start Test Date:	2022.10.17	Finish Test Date:	2022.10.18
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]
2.4G	Ant1	2405	1.310	2404.295	2405.605
		2441	1.325	2440.290	2441.615
		2475	1.290	2474.320	2475.610

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Test Graphs



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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	2405	1.7449	2404.1259	2405.8706
		2441	1.7424	2440.1291	2441.8705
		2475	1.7551	2474.1225	2475.8770

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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	2405	-0.79	≤20.97	PASS
		2441	-1.22	≤20.97	PASS
		2475	-1.28	≤20.97	PASS

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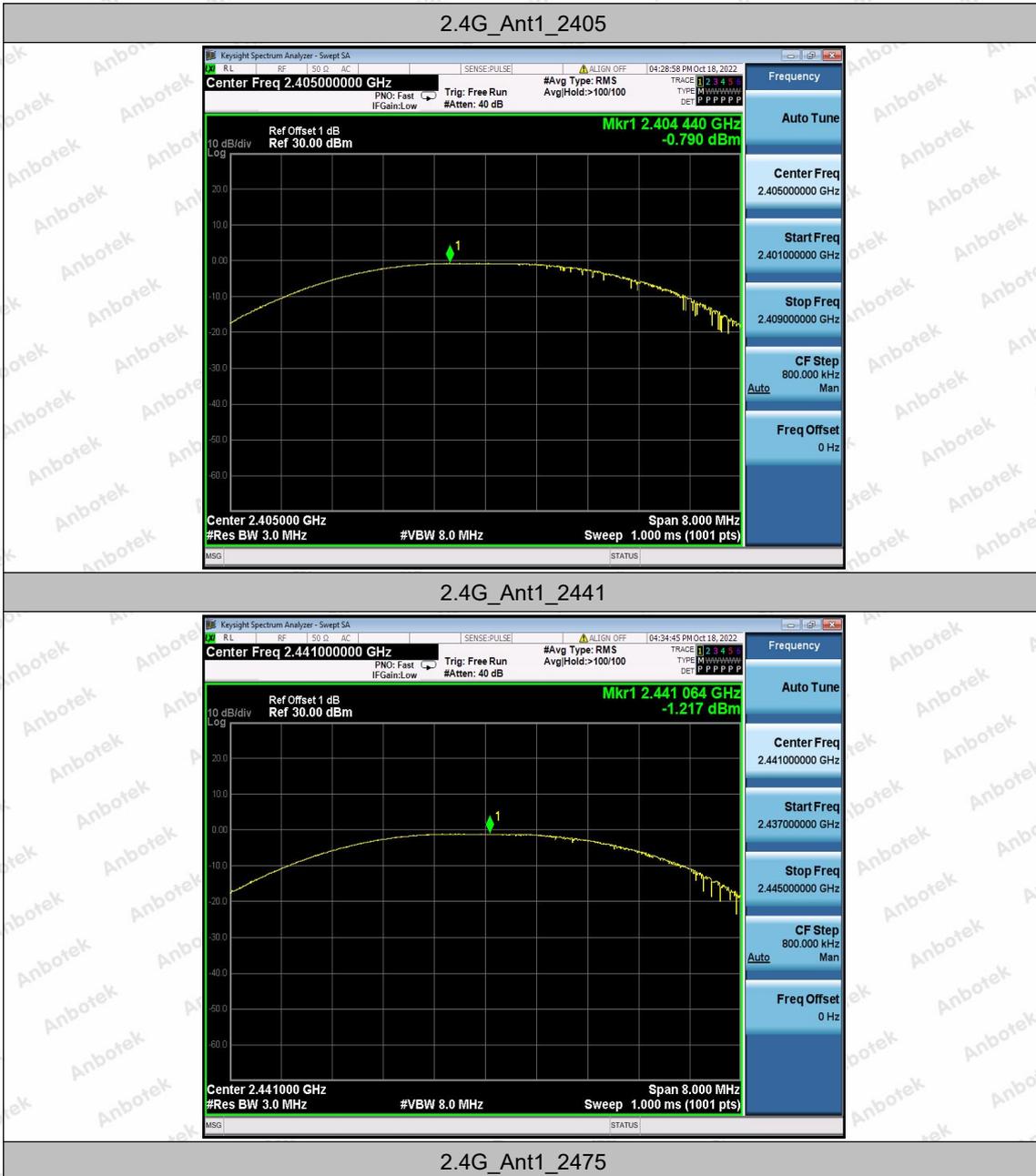
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.00	≥0.883	PASS

Test Graphs

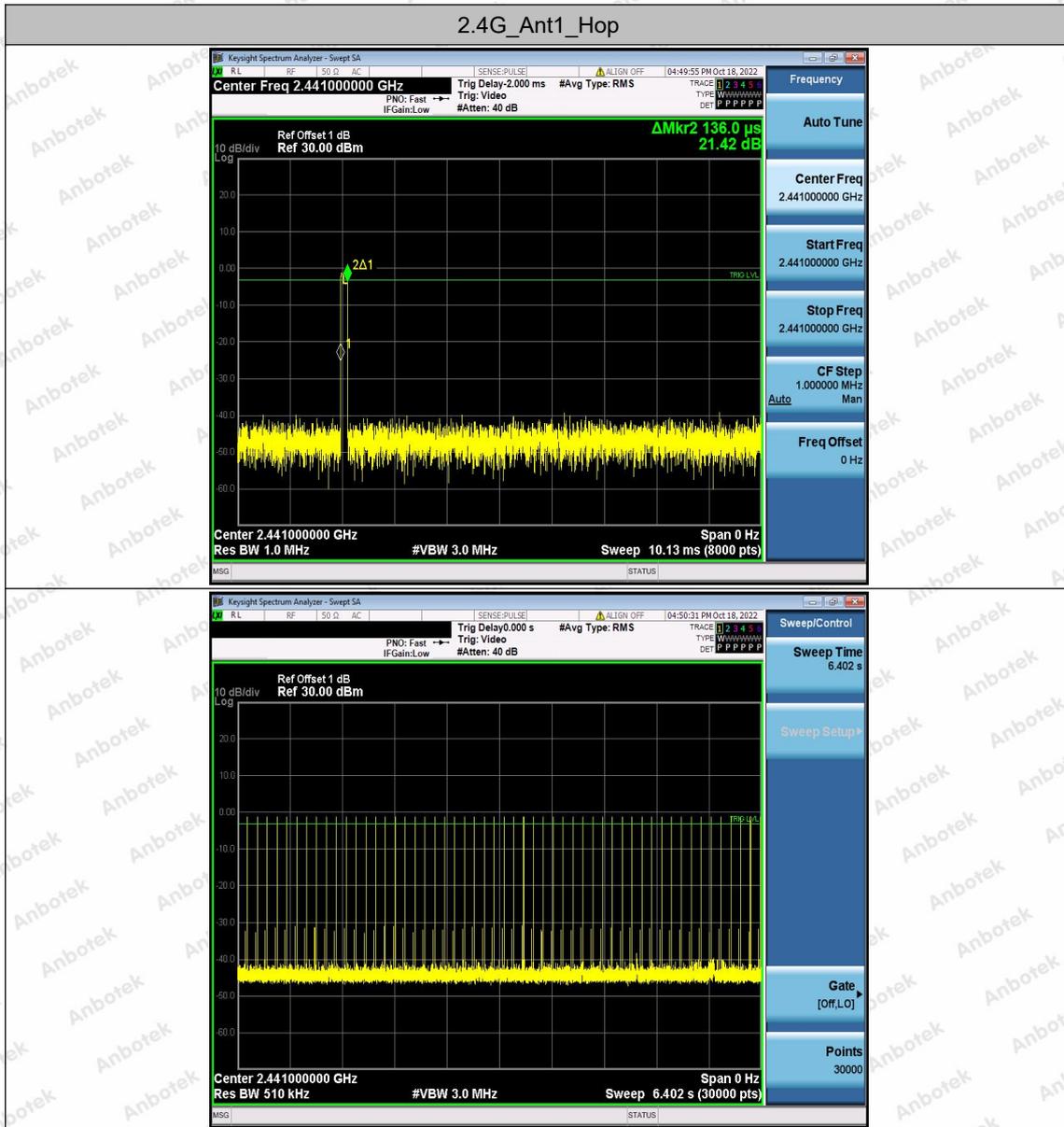


Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.136	53	0.007	≤0.4	PASS

Test Graphs



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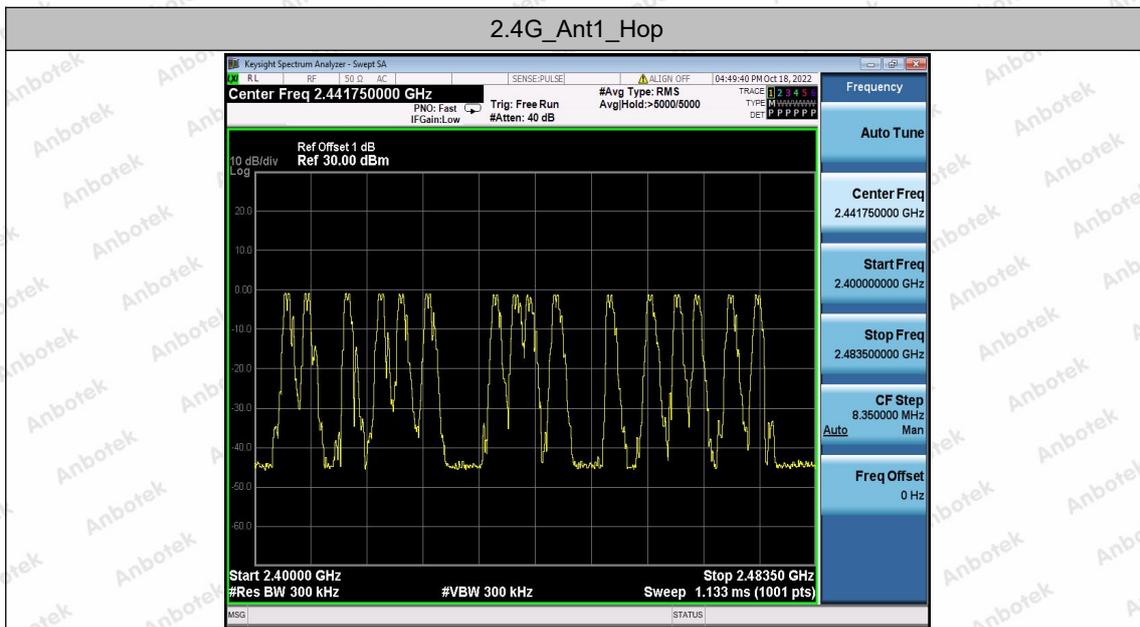


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	16	≥15	PASS

Test Graphs



Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2405	-0.85	-56.44	≤-20.85	PASS
		High	2475	-1.35	-57.15	≤-21.35	PASS
		Low	Hop_2402	-0.88	-56.62	≤-20.88	PASS
		High	Hop_2480	-1.26	-55.96	≤-21.26	PASS

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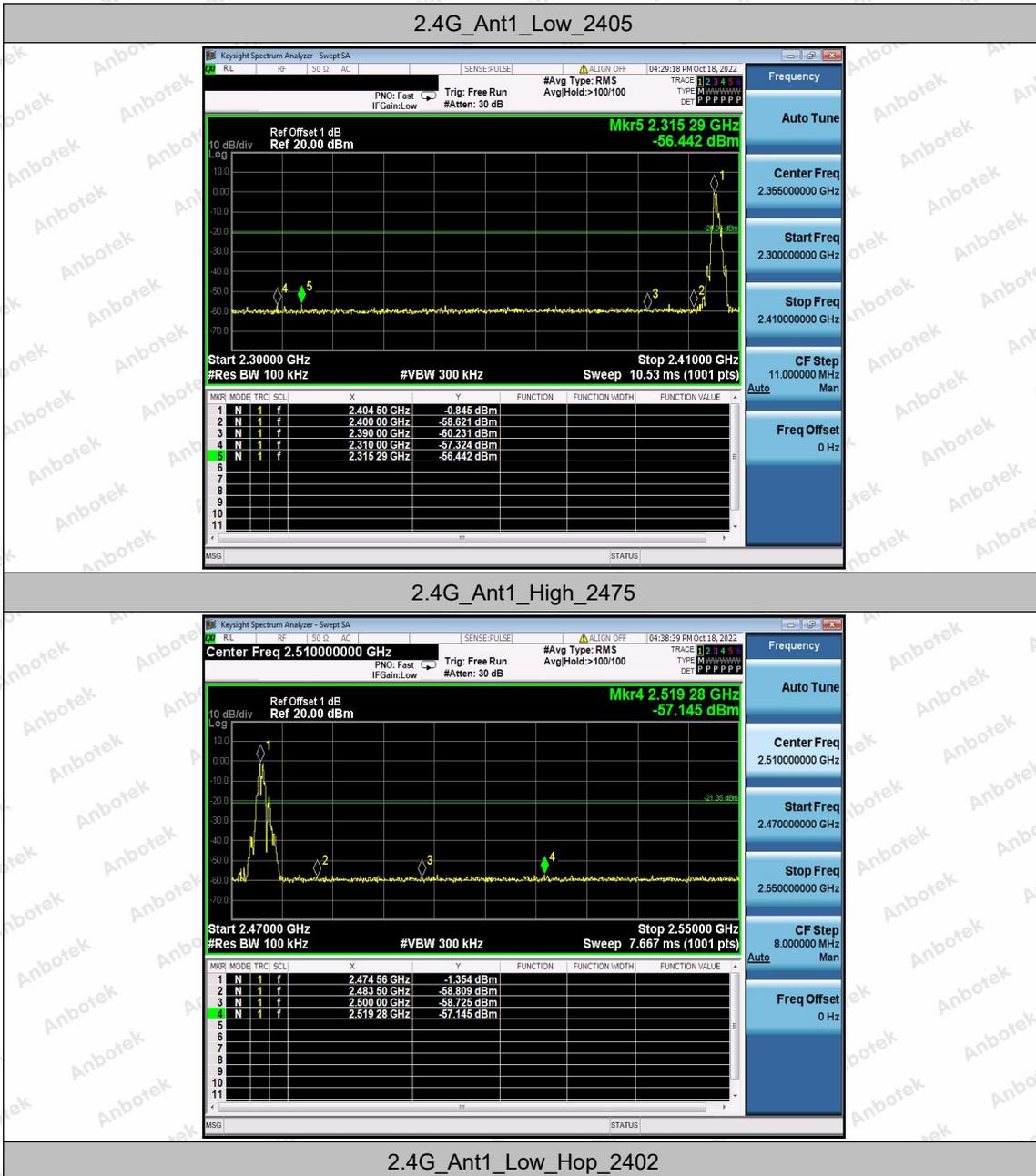
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Test Graphs

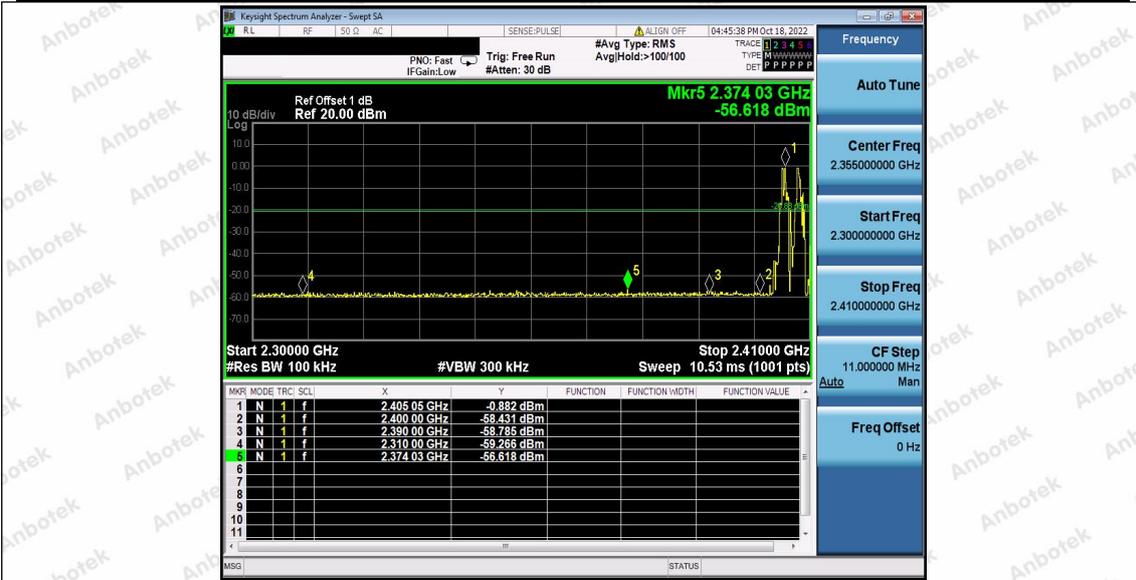


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2.4G_Ant1_High_Hop_2480



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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
2.4G	Ant1	2405	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-69.74	≤-20.88	PASS
			1000~26500	-0.88	-53	≤-20.88	PASS
		2441	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-69.72	≤-21.29	PASS
			1000~26500	-1.29	-52.99	≤-21.29	PASS
		2475	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-68.57	≤-21.39	PASS
			1000~26500	-1.39	-53.22	≤-21.39	PASS

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Test Graphs

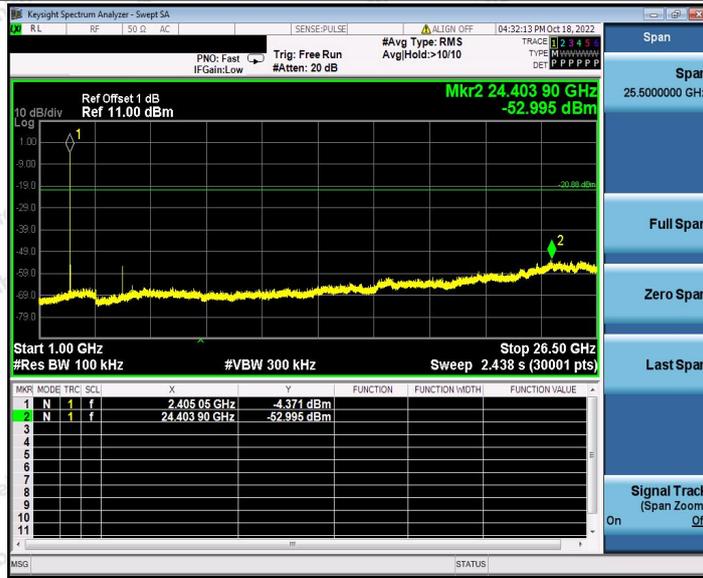


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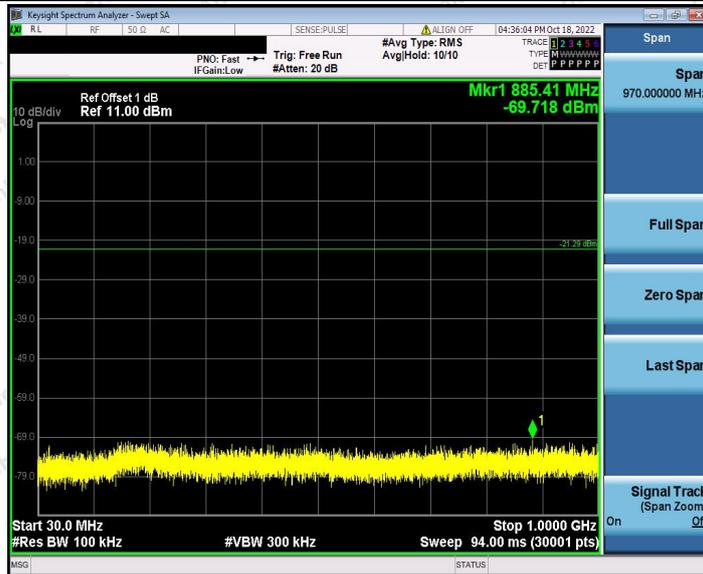




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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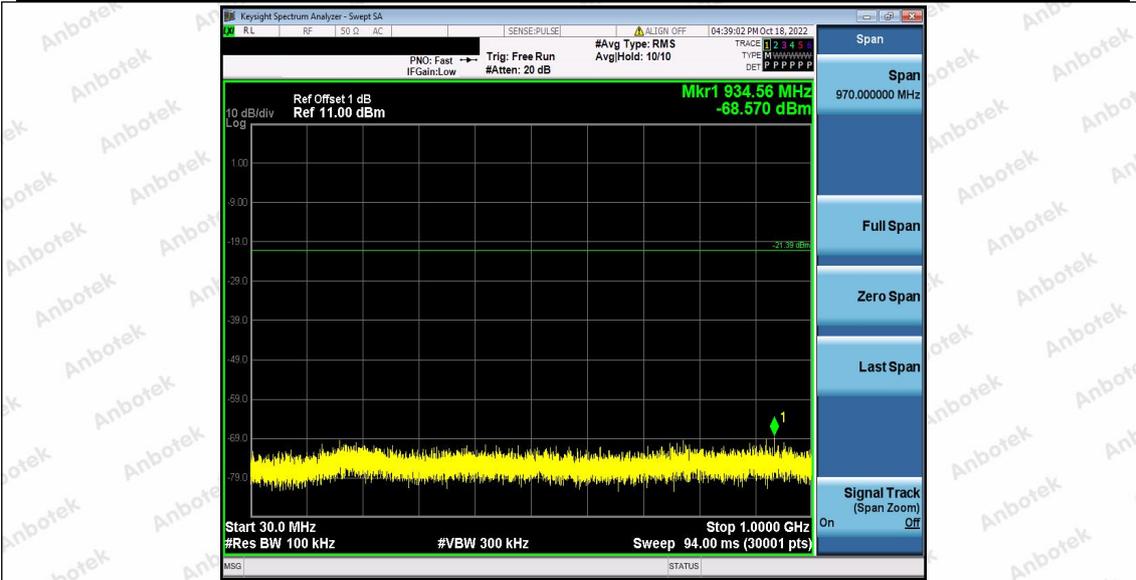


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2.4G_Ant1_2475_1000~26500



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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	2405	0.14	7.55	1.85	17.33
		2441	0.14	7.55	1.85	17.33
		2475	0.14	7.52	1.86	17.30

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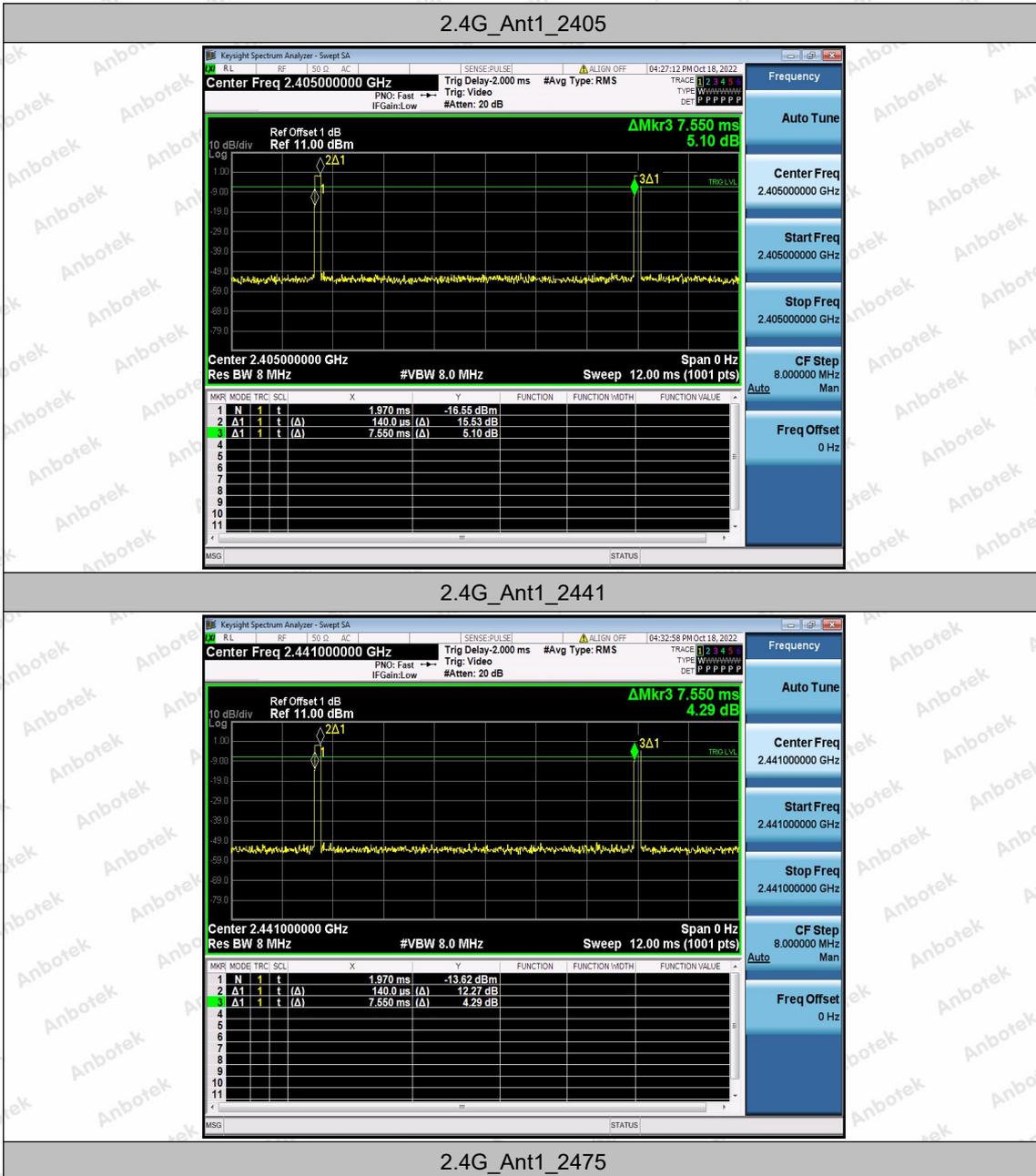
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Test Graphs



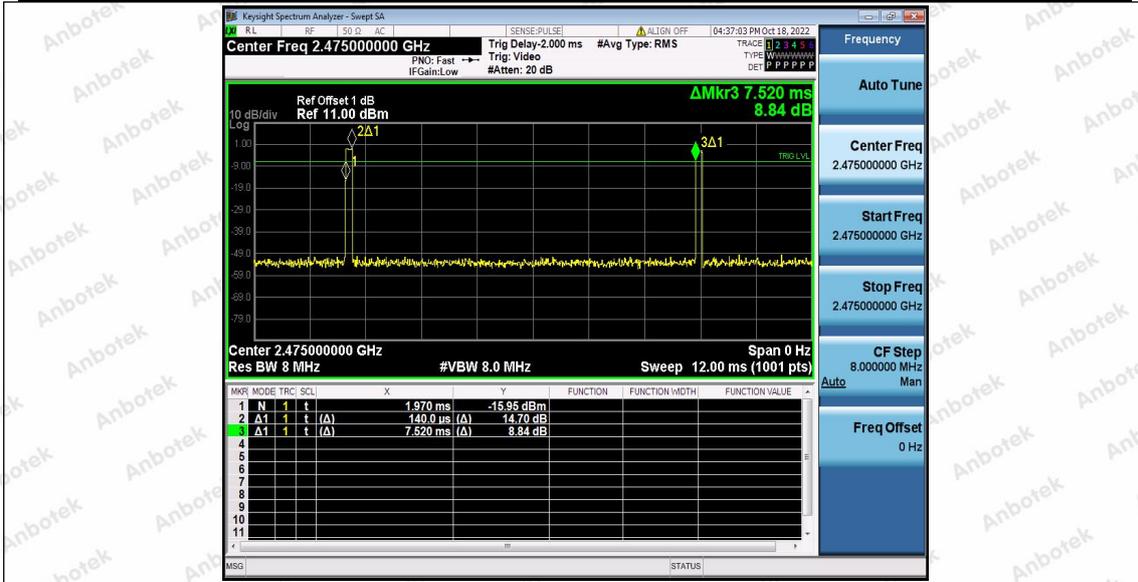
2.4G_Ant1_2475

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