

Appendix Test Data

Report No.:	18220WC30150301	Test Sample No.:	1-2-2
Start Test Date:	2023.07.21	Finish Test Date:	2023.07.26
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.4℃	Relative Humidity:	46%
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.544	2402.498	---	---
		2441	0.960	2440.535	2441.495	---	---
		2480	0.936	2479.538	2480.474	---	---
2DH5	Ant1	2402	1.308	2401.349	2402.657	---	---
		2441	1.308	2440.349	2441.657	---	---
		2480	1.287	2479.352	2480.639	---	---



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85877	2401.5749	2402.4336	---	---
		2441	0.85160	2440.5763	2441.4279	---	---
		2480	0.86941	2479.5670	2480.4364	---	---
2DH5	Ant1	2402	1.1811	2401.4103	2402.5914	---	---
		2441	1.2021	2440.4006	2441.6027	---	---
		2480	1.1819	2479.4111	2480.5930	---	---



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



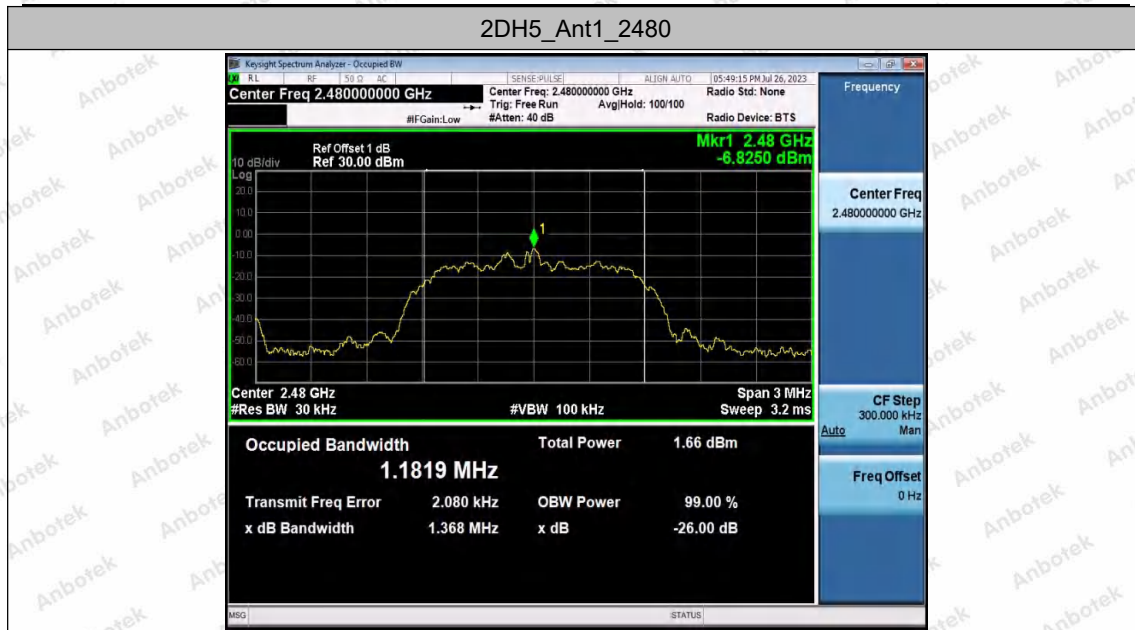
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.67	≤20.97	PASS
		2441	-3.09	≤20.97	PASS
		2480	-4.34	≤20.97	PASS
2DH5	Ant1	2402	-0.86	≤20.97	PASS
		2441	-2.22	≤20.97	PASS
		2480	-3.47	≤20.97	PASS



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

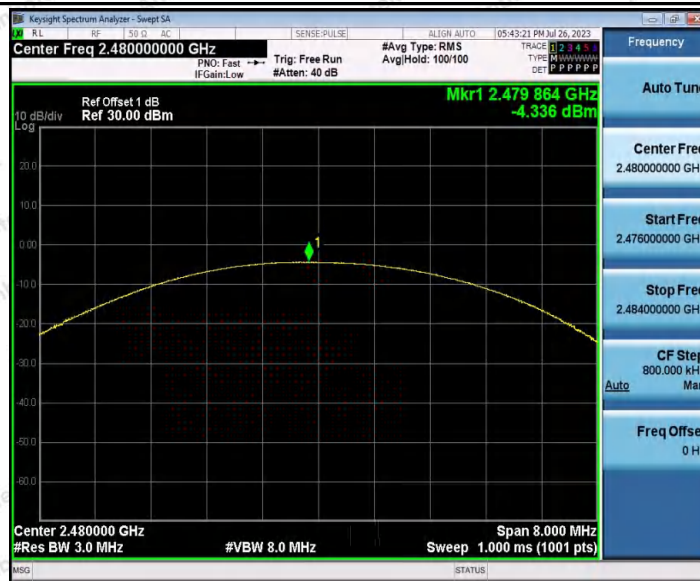
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2DH5_Ant1_2402



2DH5_Ant1_2441

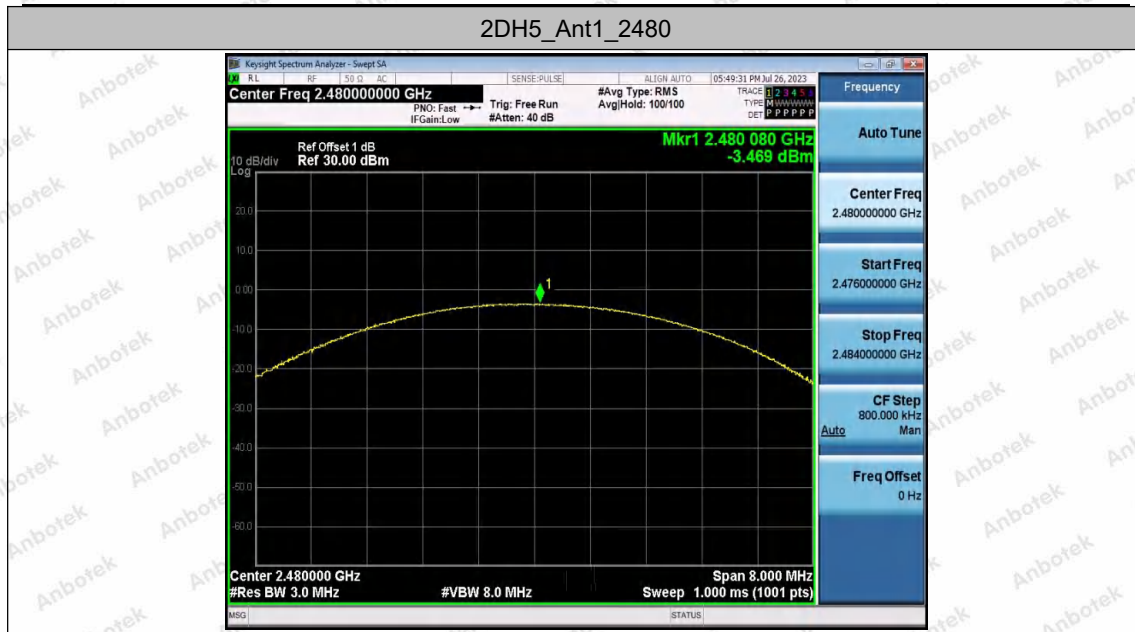


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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.960	PASS
2DH5	Ant1	Hop	0.992	≥ 0.872	PASS



Test Graphs



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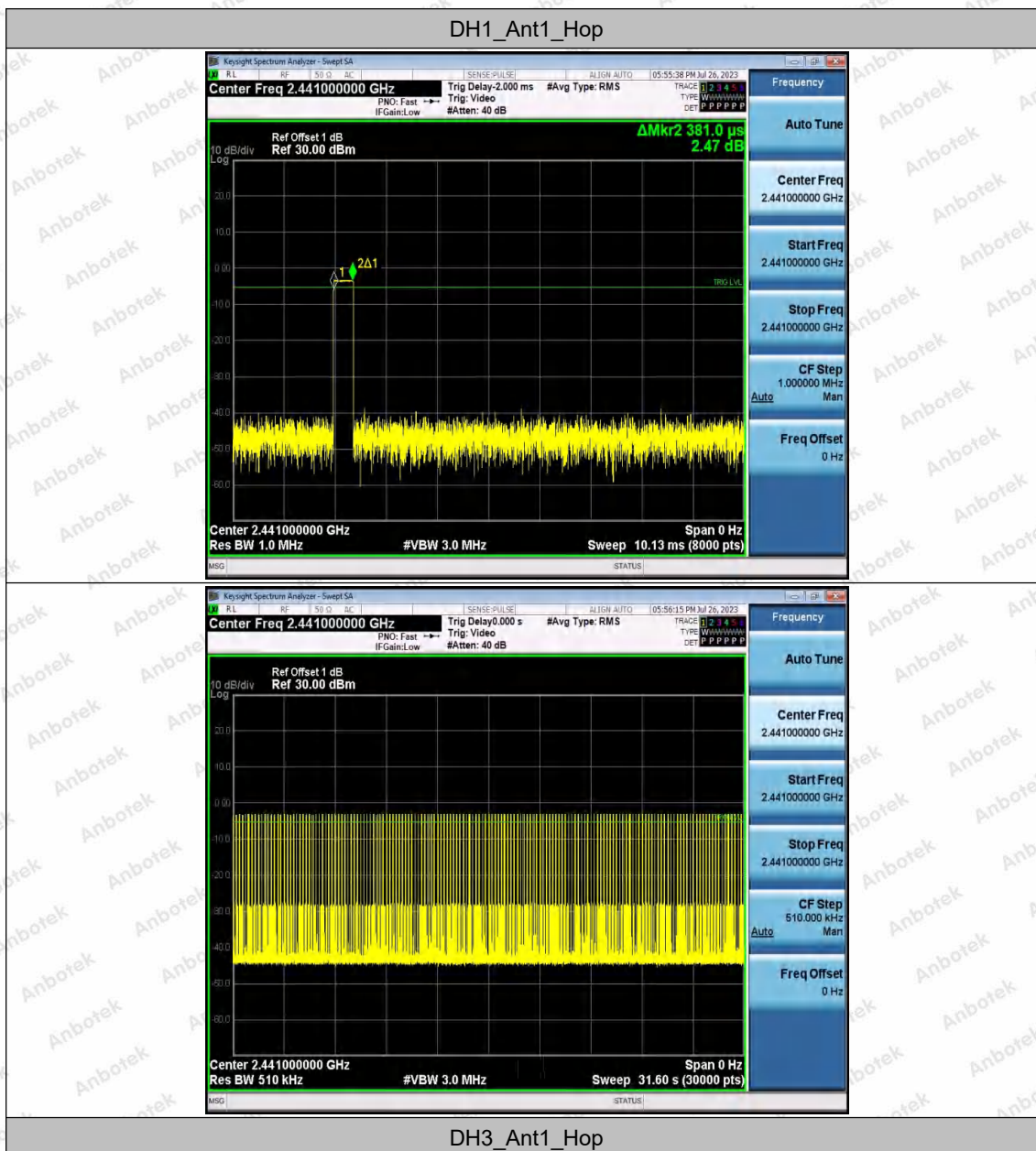
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.381	318	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.637	169	0.277	≤0.4	PASS
DH5	Ant1	Hop	2.885	99	0.286	≤0.4	PASS
2DH1	Ant1	Hop	0.391	315	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.643	154	0.253	≤0.4	PASS
2DH5	Ant1	Hop	2.891	91	0.263	≤0.4	PASS



Test Graphs



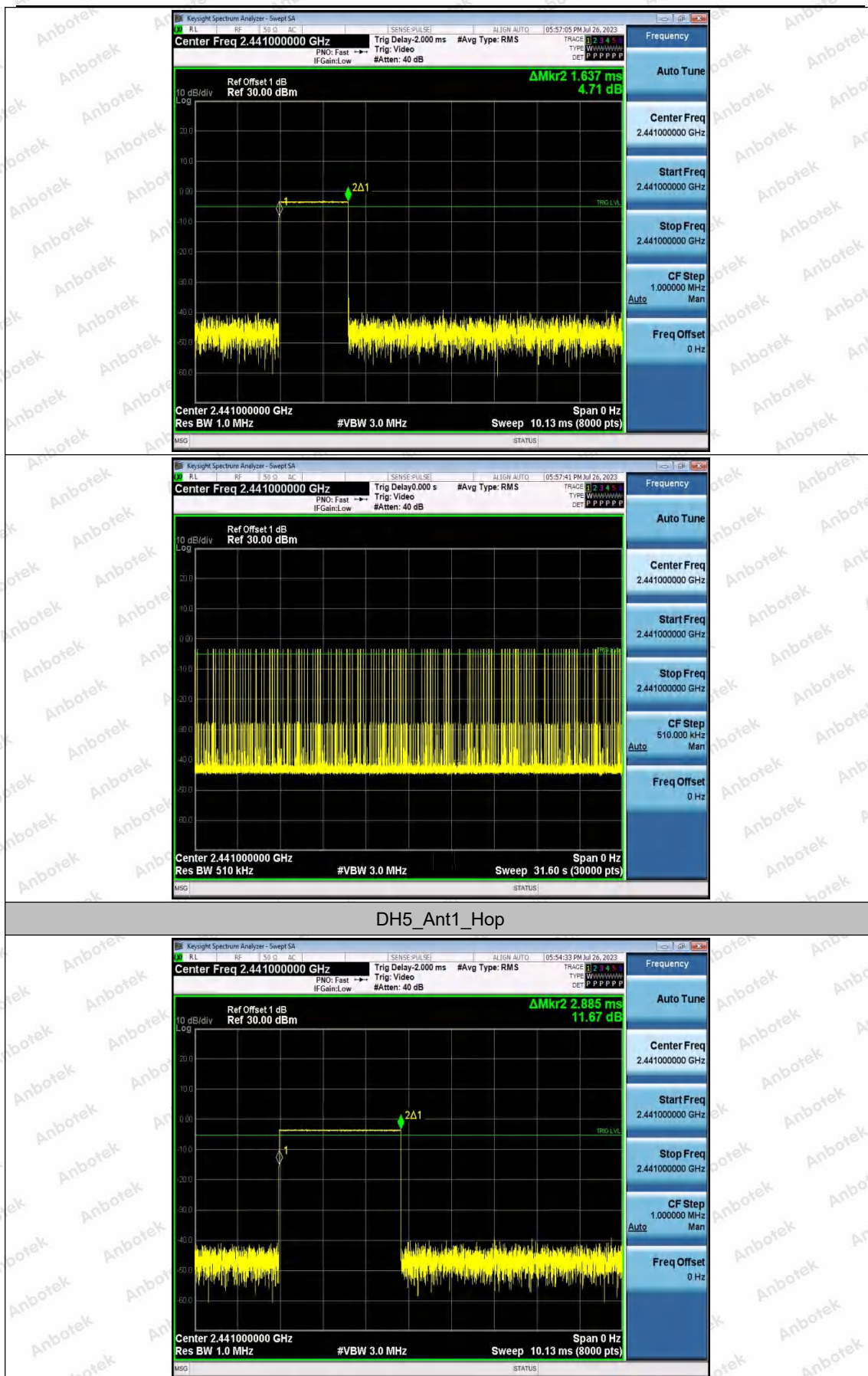
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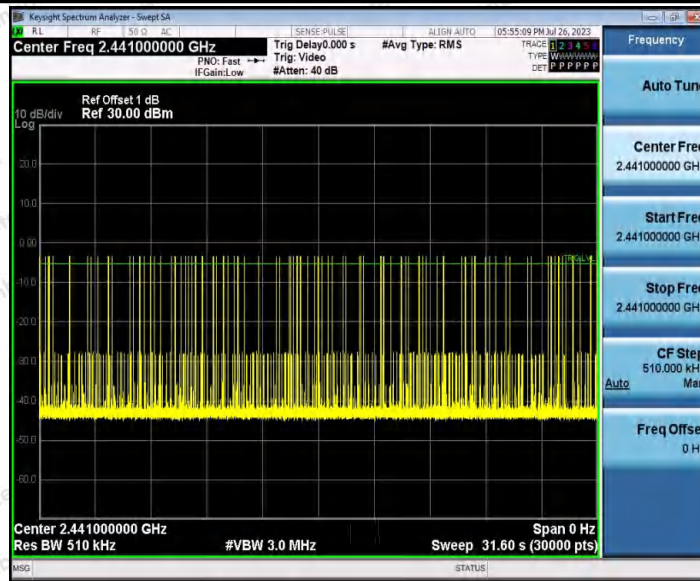
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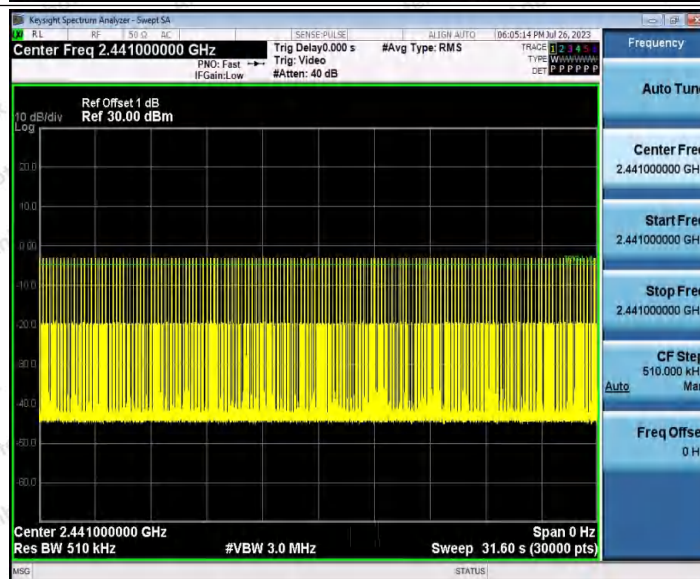
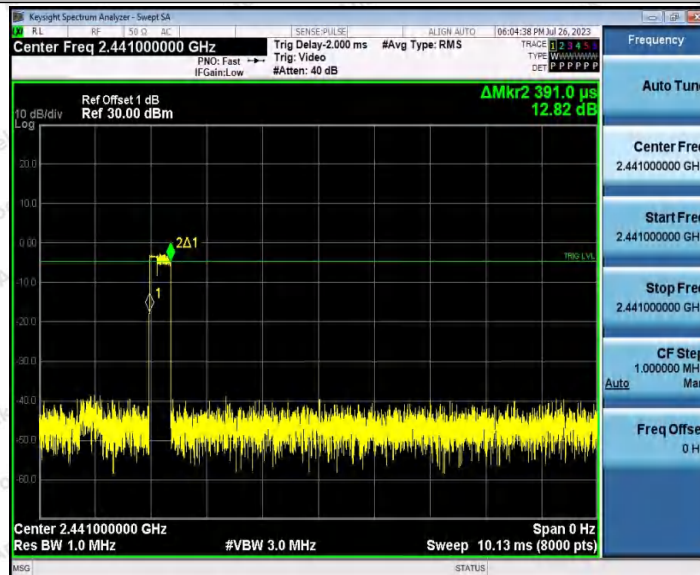


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

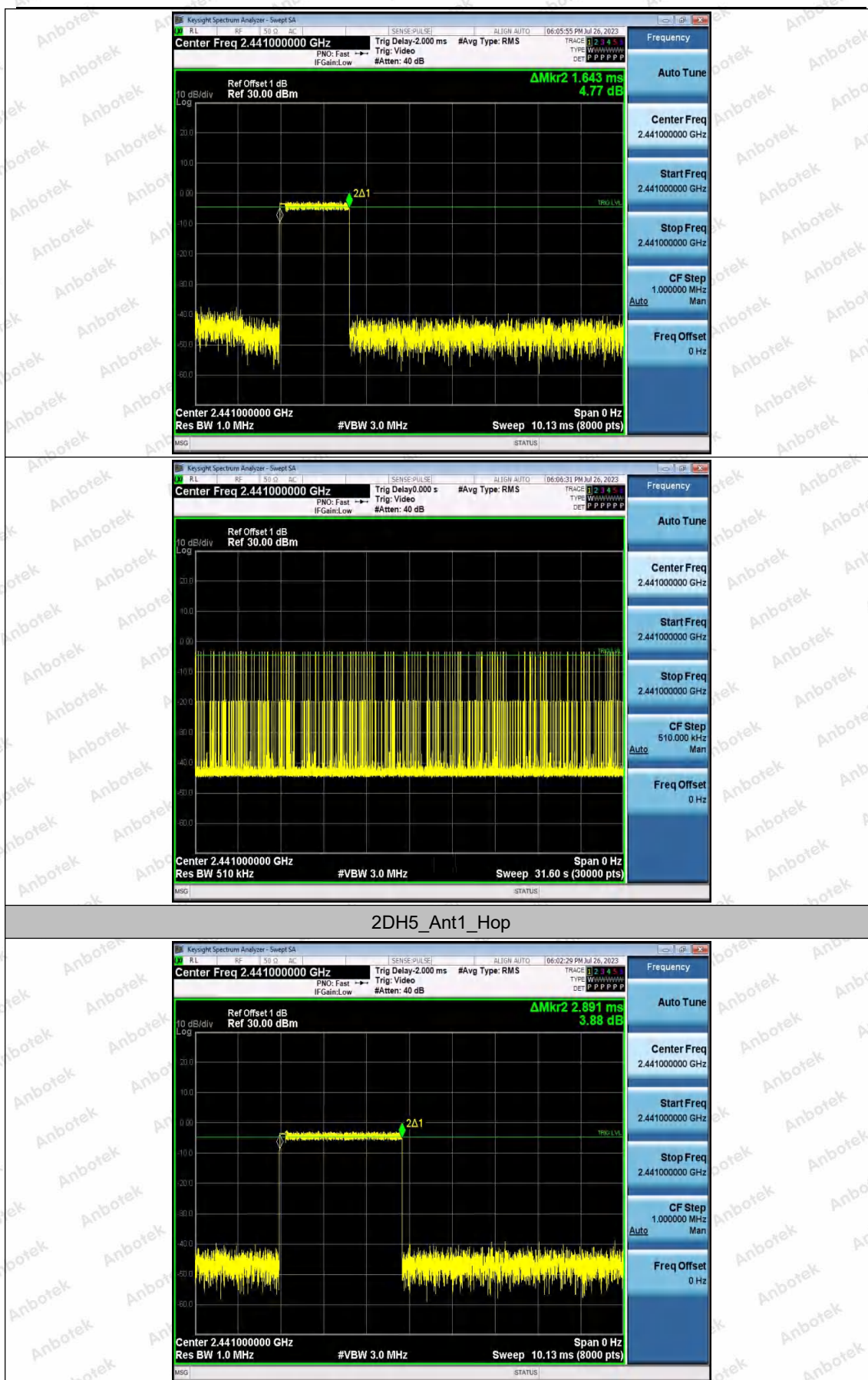
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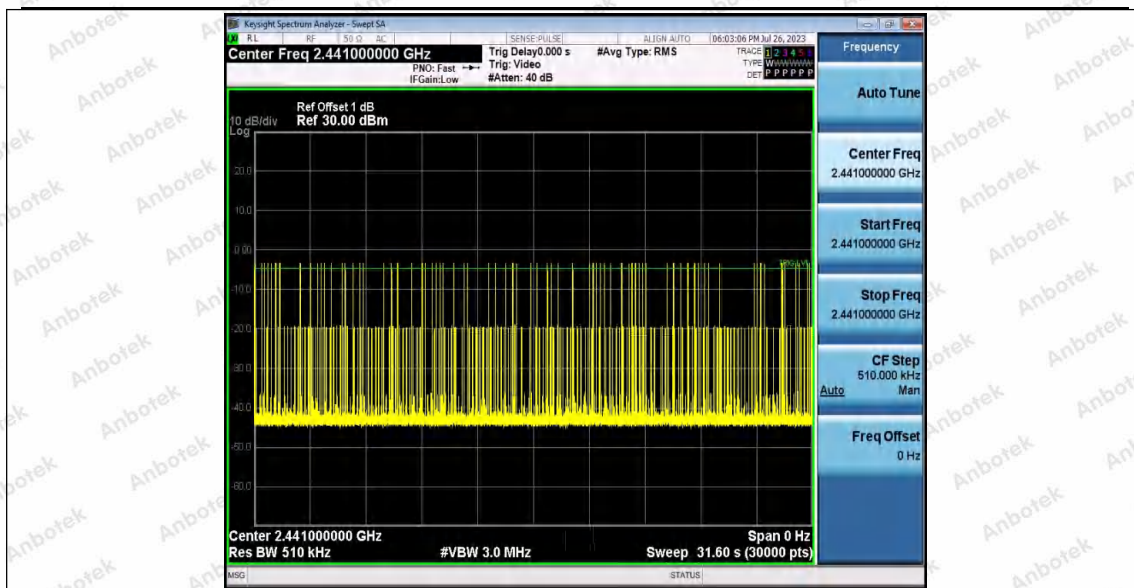
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Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

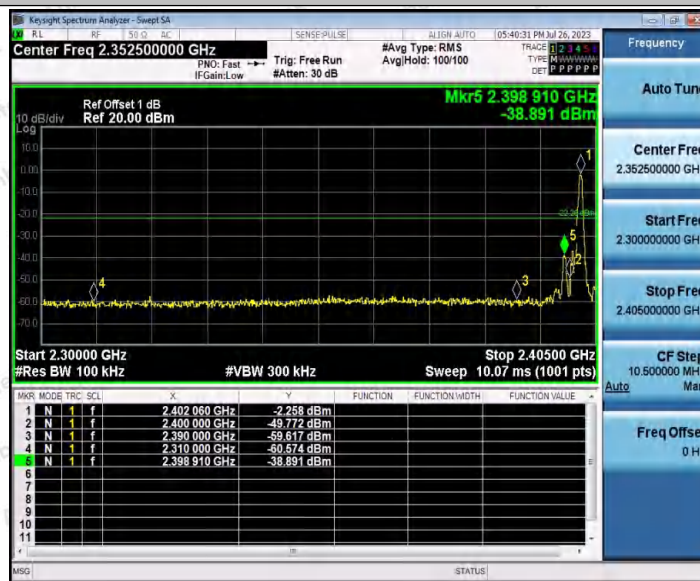
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.26	-38.89	≤-22.26	PASS
		High	2480	-4.97	-57.39	≤-24.97	PASS
		Low	Hop_2402	-2.33	-56.27	≤-22.33	PASS
		High	Hop_2480	-4.51	-56.42	≤-24.51	PASS
2DH5	Ant1	Low	2402	-2.42	-38.33	≤-22.42	PASS
		High	2480	-5.66	-56.71	≤-25.66	PASS
		Low	Hop_2402	-2.13	-56.94	≤-22.13	PASS
		High	Hop_2480	-5.84	-56.17	≤-25.84	PASS

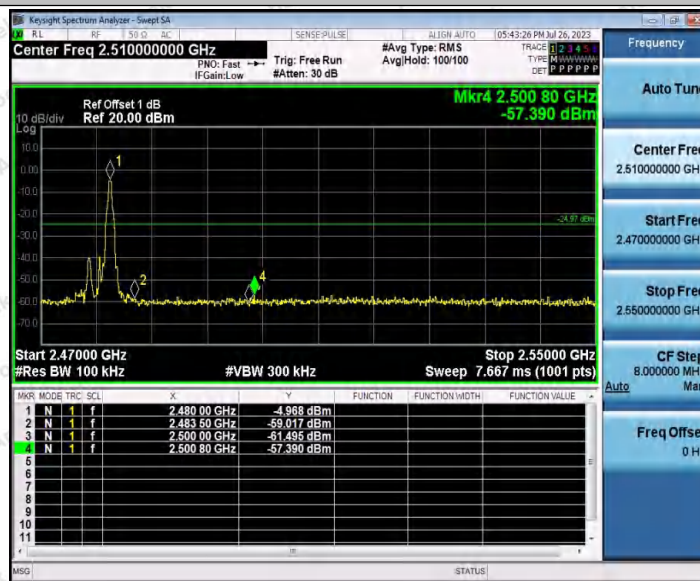


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

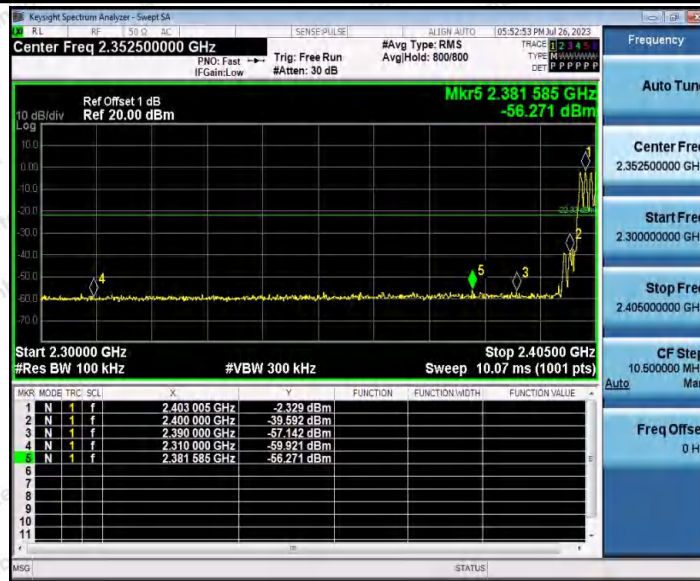
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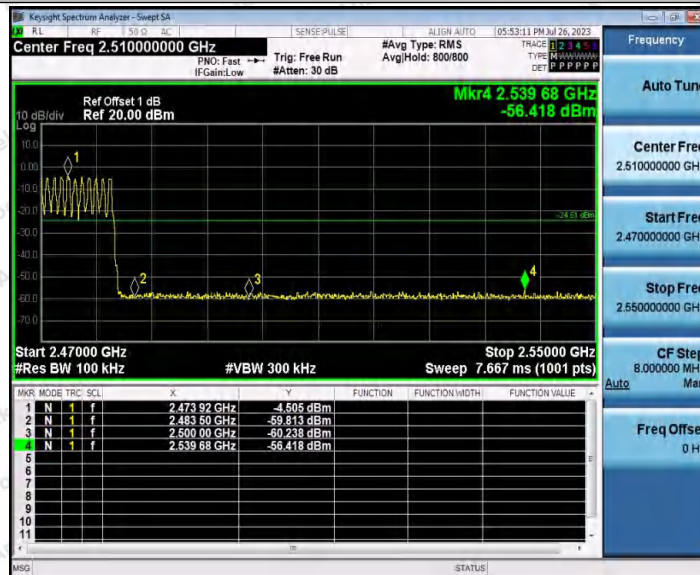


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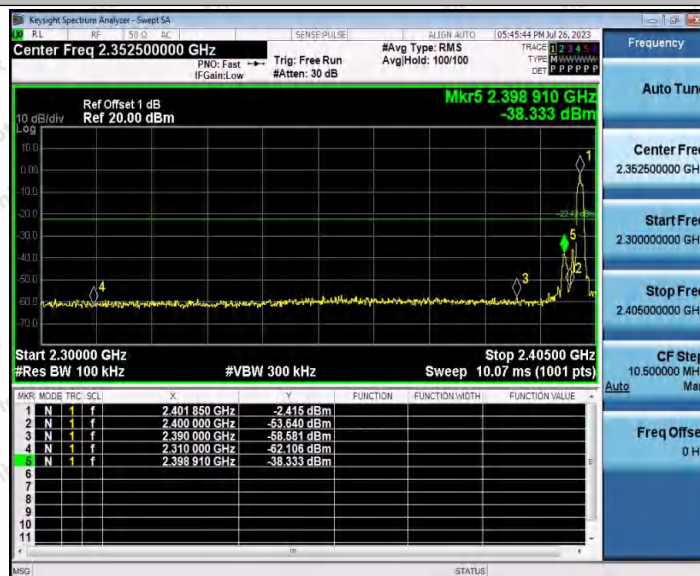




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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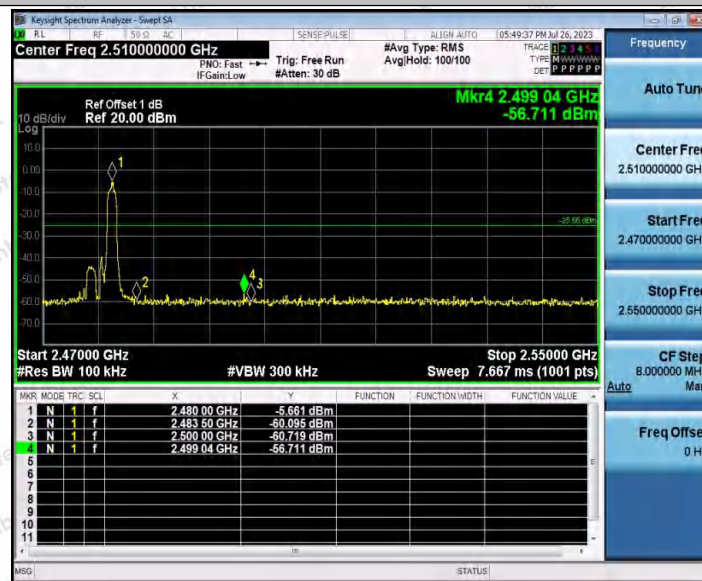
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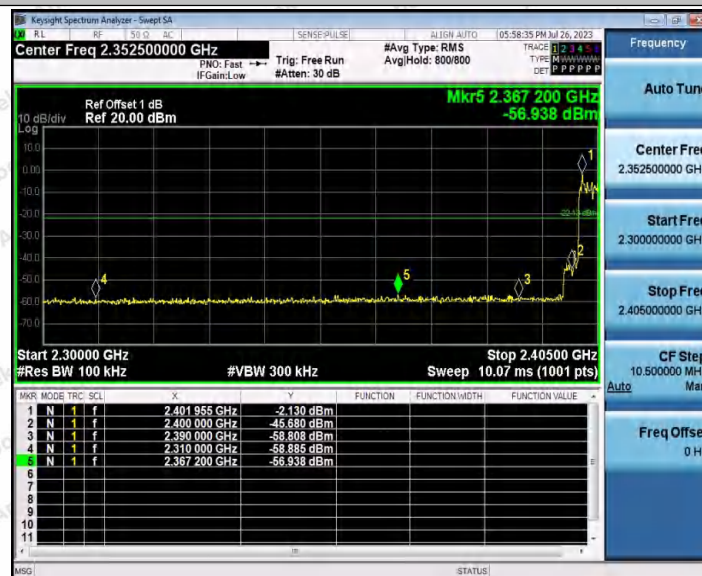
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

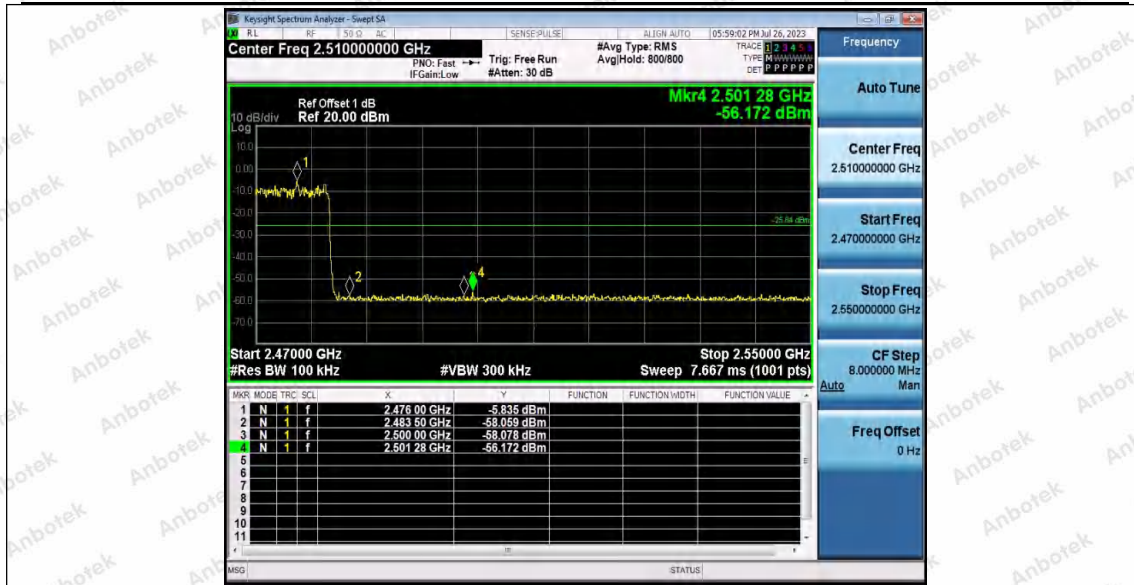
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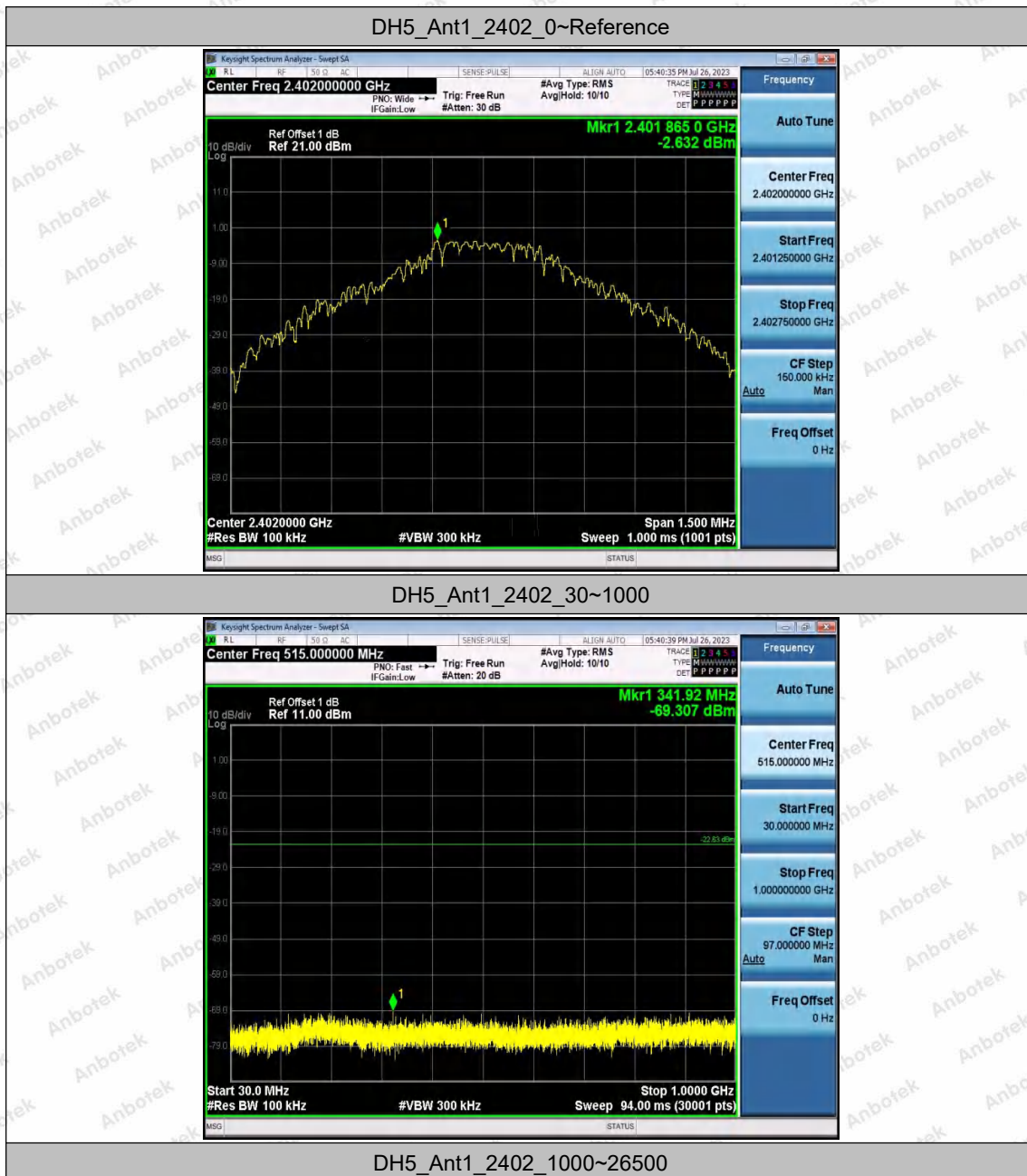
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.63	-2.63	---	PASS
			30~1000	-2.63	-69.31	≤-22.63	PASS
			1000~26500	-2.63	-47.77	≤-22.63	PASS
		2441	Reference	-3.52	-3.52	---	PASS
			30~1000	-3.52	-69.46	≤-23.52	PASS
			1000~26500	-3.52	-45.65	≤-23.52	PASS
		2480	Reference	-5.46	-5.46	---	PASS
			30~1000	-5.46	-69.22	≤-25.46	PASS
			1000~26500	-5.46	-46.38	≤-25.46	PASS
2DH5	Ant1	2402	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-68.96	≤-22.49	PASS
			1000~26500	-2.49	-47.81	≤-22.49	PASS
		2441	Reference	-7.48	-7.48	---	PASS
			30~1000	-7.48	-69.45	≤-27.48	PASS
			1000~26500	-7.48	-46.02	≤-27.48	PASS
		2480	Reference	-8.08	-8.08	---	PASS
			30~1000	-8.08	-69.15	≤-28.08	PASS
			1000~26500	-8.08	-46.4	≤-28.08	PASS



Test Graphs



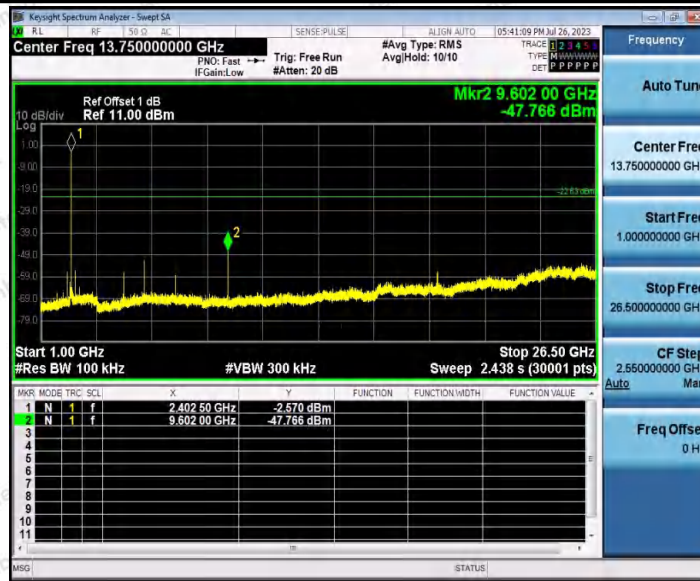
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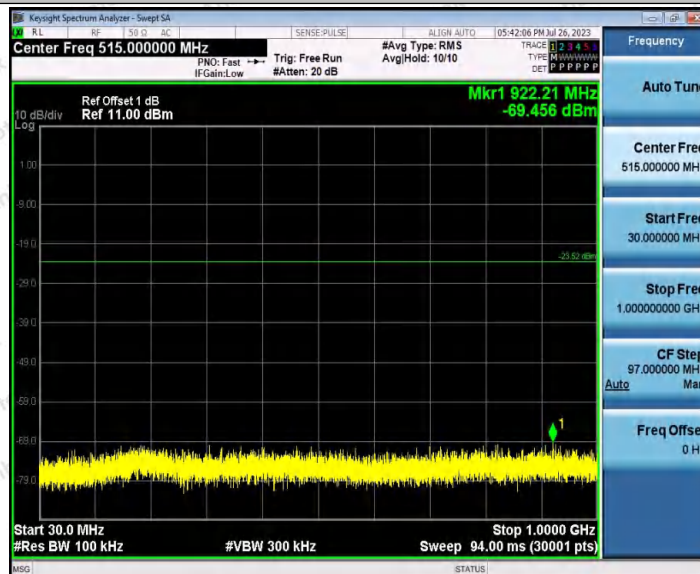




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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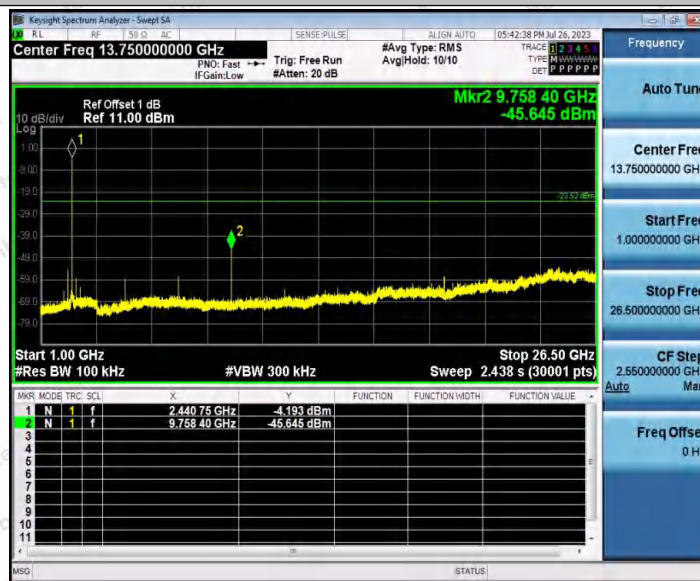
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

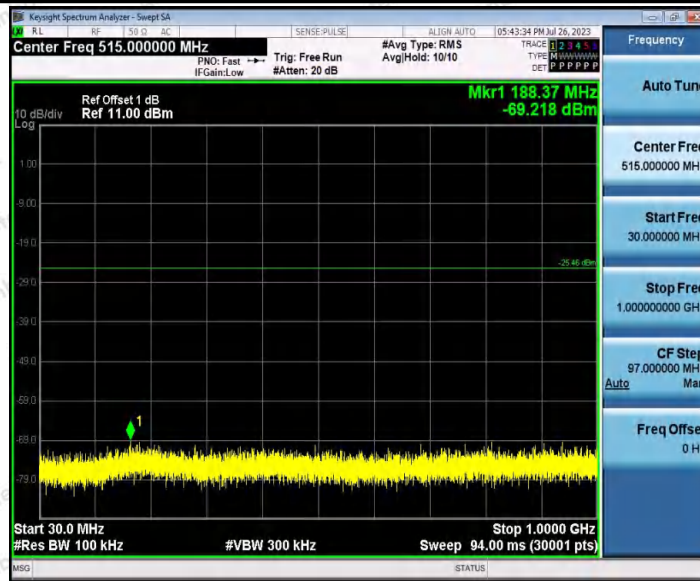
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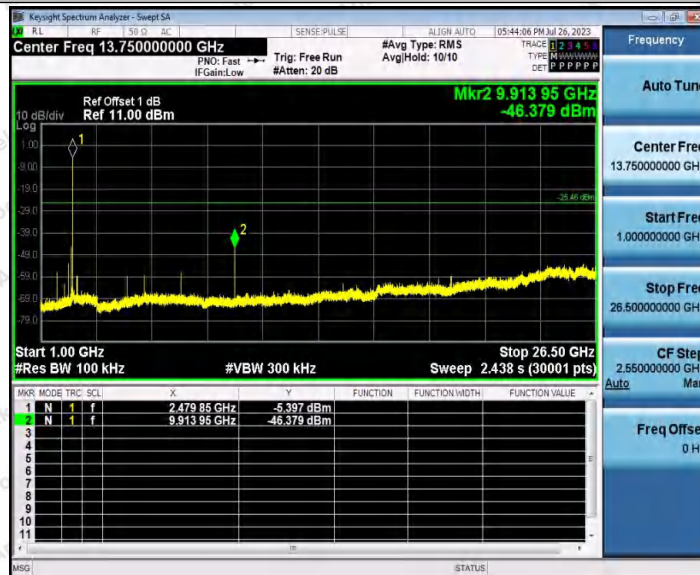


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



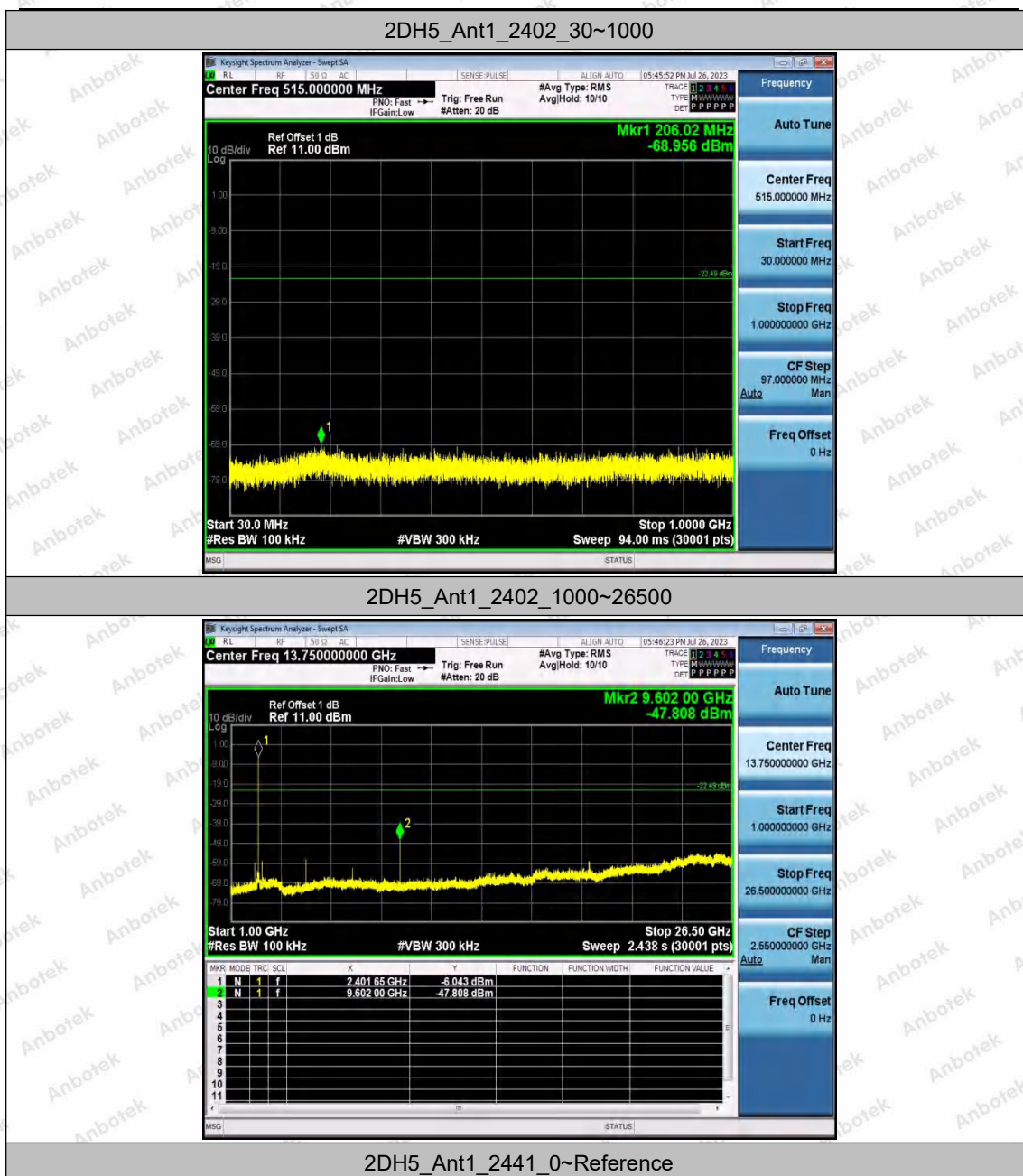
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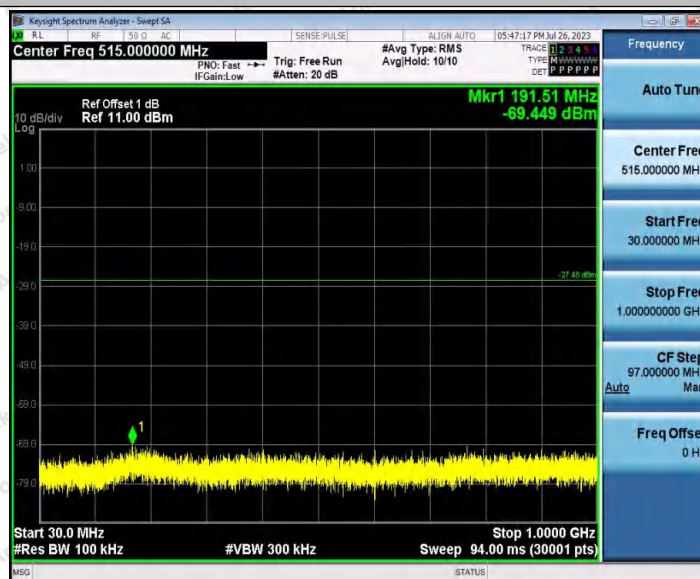


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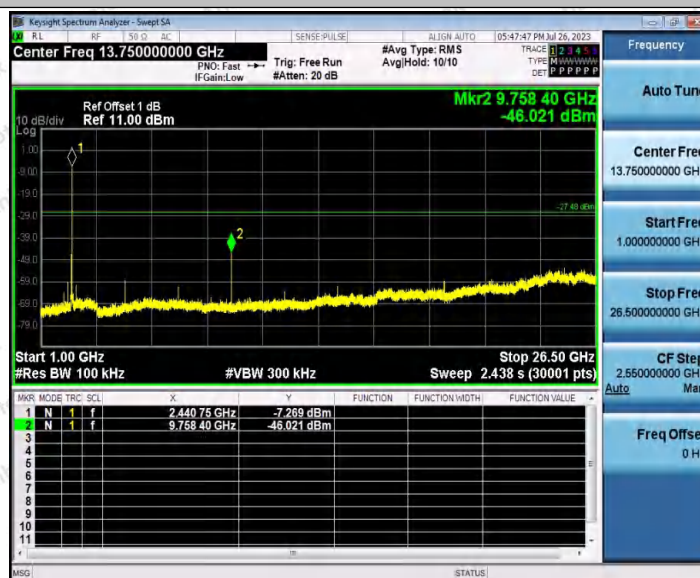




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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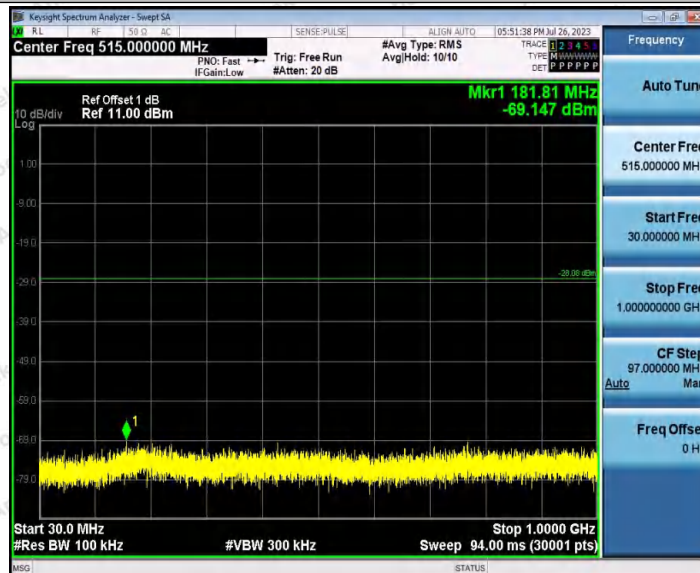
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

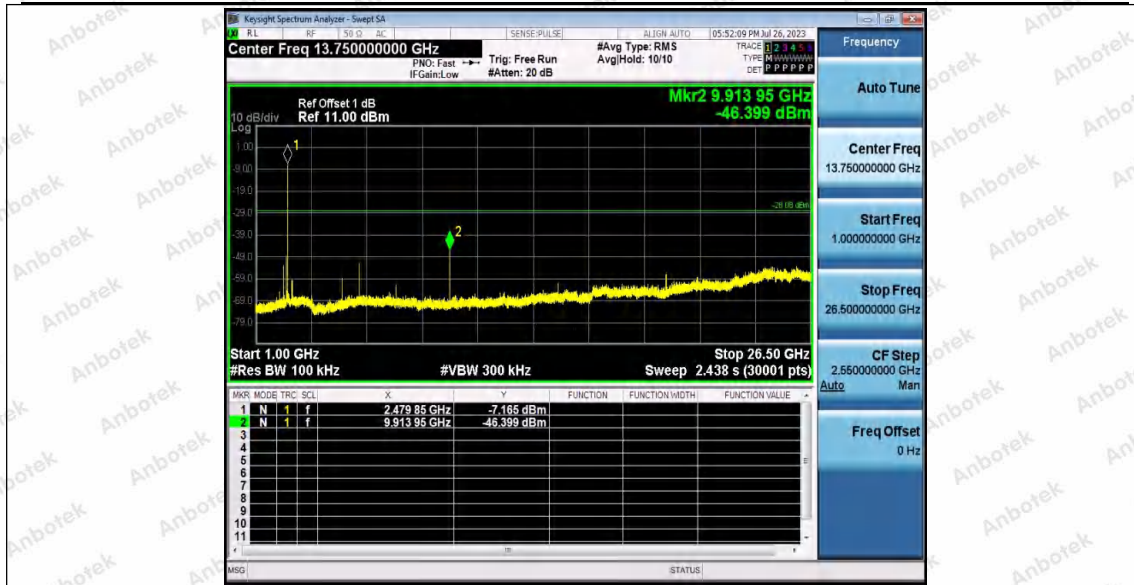
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Appendix I: Duty Cycle

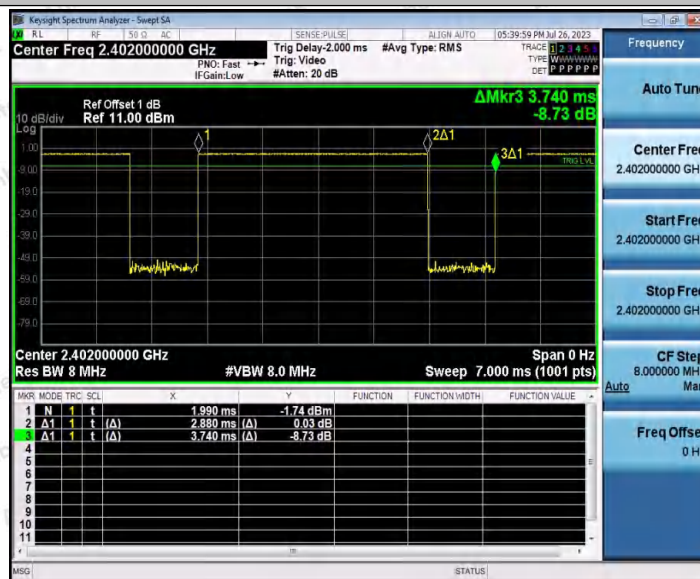
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.74	77.01	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.74	77.27	1.12

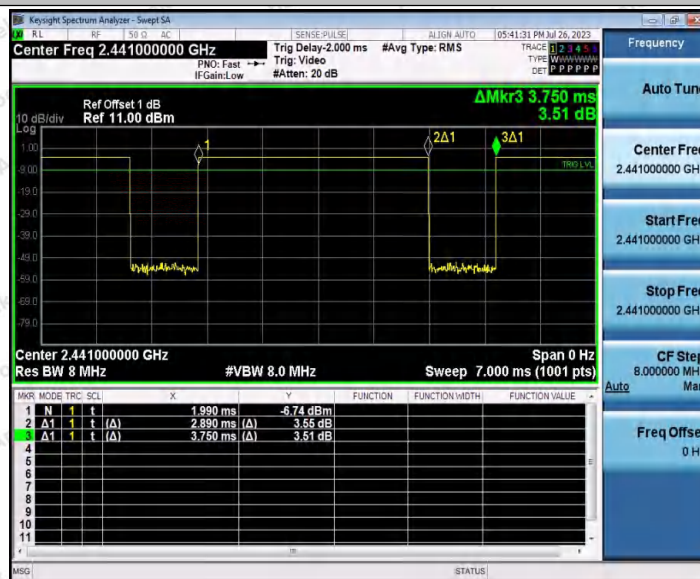


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

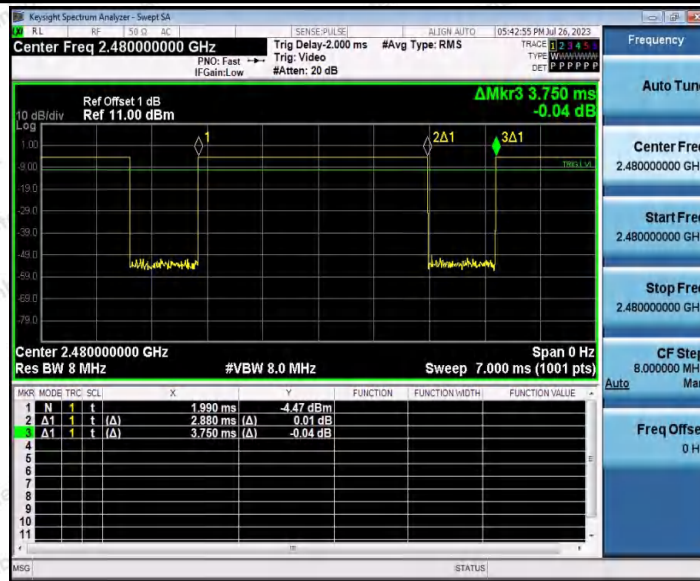
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

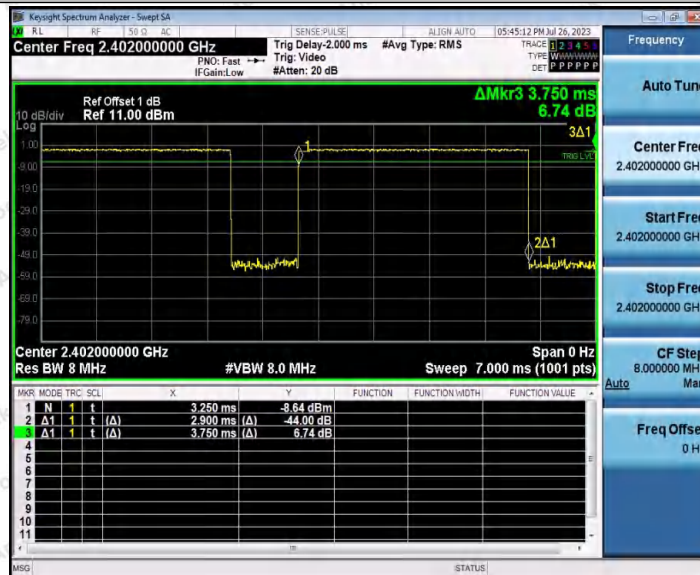


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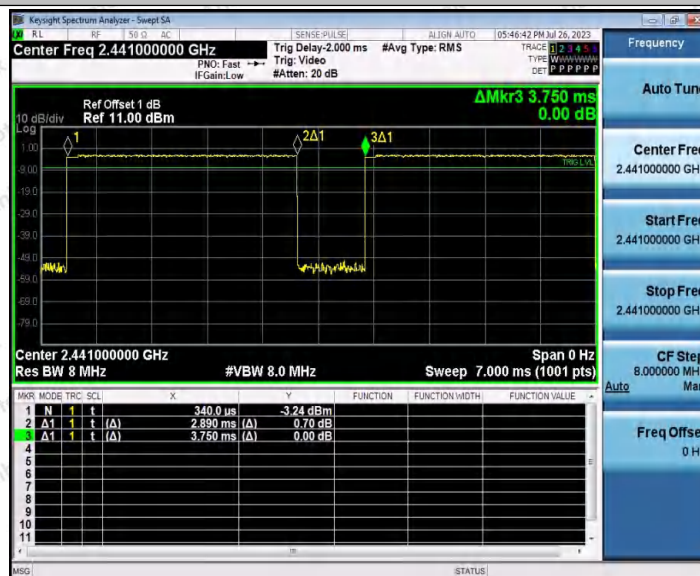




2DH5_Ant1_2402



2DH5_Ant1_2441



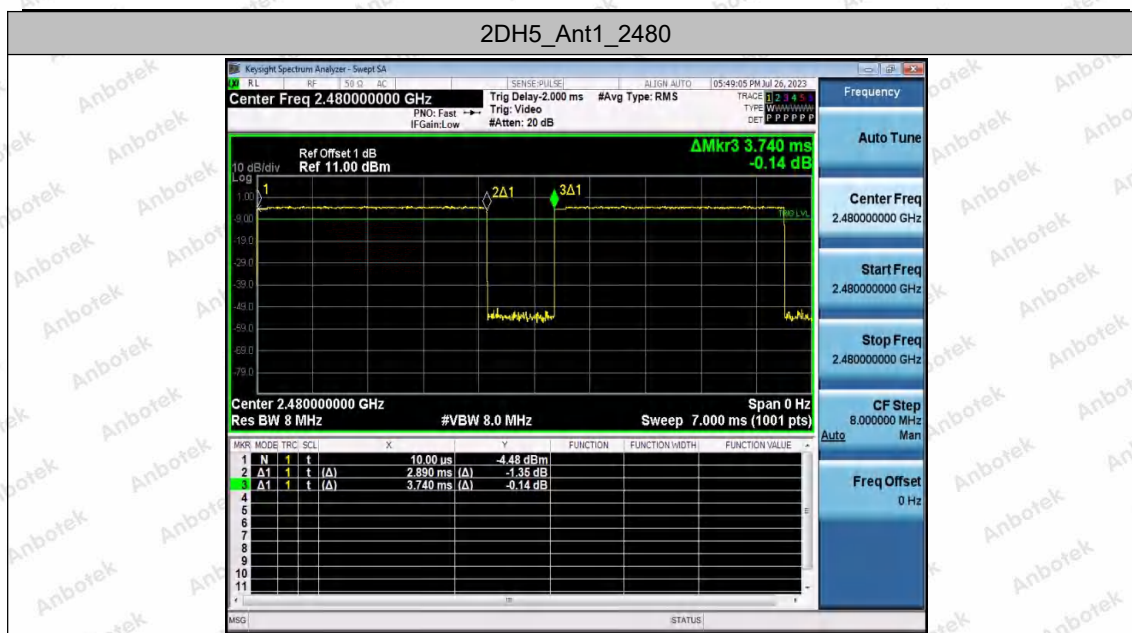
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