

Appendix Test Data

Report No.:	18220WC30200501	Test Sample No.:	1-2-2
Start Test Date:	2023.09.15	Finish Test Date:	2023.09.15
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.4℃	Relative Humidity:	48.1%
Pressure:	102 kPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.026	2401.475	2402.501	---	---
		2441	0.975	2440.517	2441.492	---	---
		2480	0.999	2479.481	2480.480	---	---
2DH5	Ant1	2402	1.329	2401.319	2402.648	---	---
		2441	1.278	2440.355	2441.633	---	---
		2480	1.311	2479.328	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	0.90332	2401.5393	2402.4426	---	---
		2441	0.89599	2440.5379	2441.4339	---	---
		2480	0.88831	2479.5438	2480.4322	---	---
2DH5	Ant1	2402	1.2031	2401.3892	2402.5923	---	---
		2441	1.1920	2440.3914	2441.5834	---	---
		2480	1.1923	2479.3919	2480.5842	---	---



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



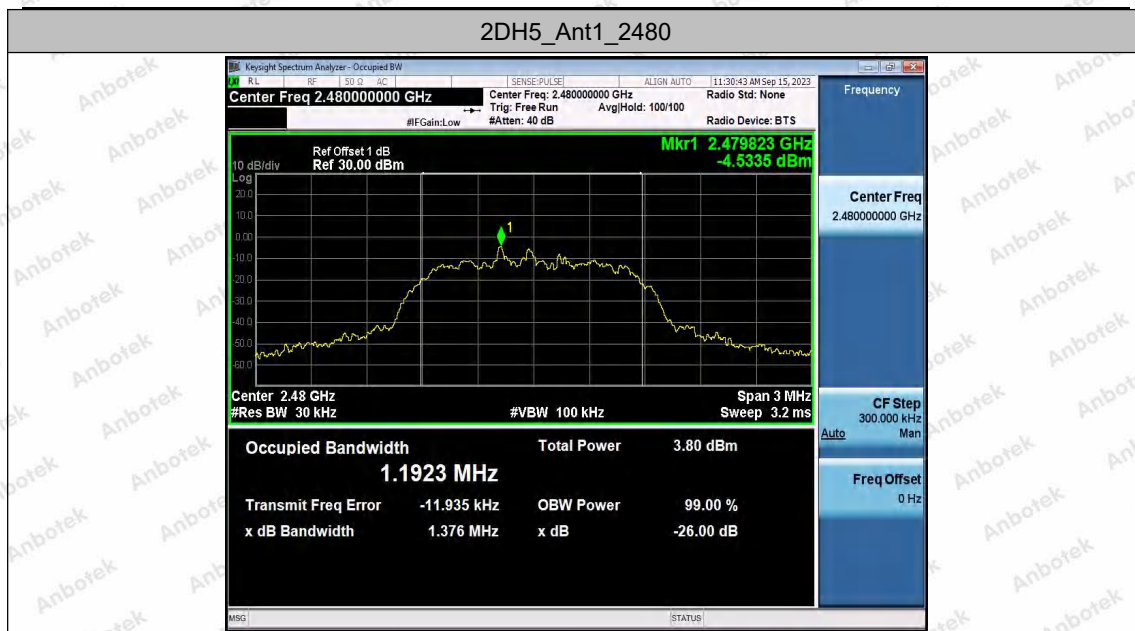
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.24	≤20.97	PASS
		2441	-1.35	≤20.97	PASS
		2480	-2.06	≤20.97	PASS
2DH5	Ant1	2402	0.55	≤20.97	PASS
		2441	-0.50	≤20.97	PASS
		2480	-1.15	≤20.97	PASS



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441

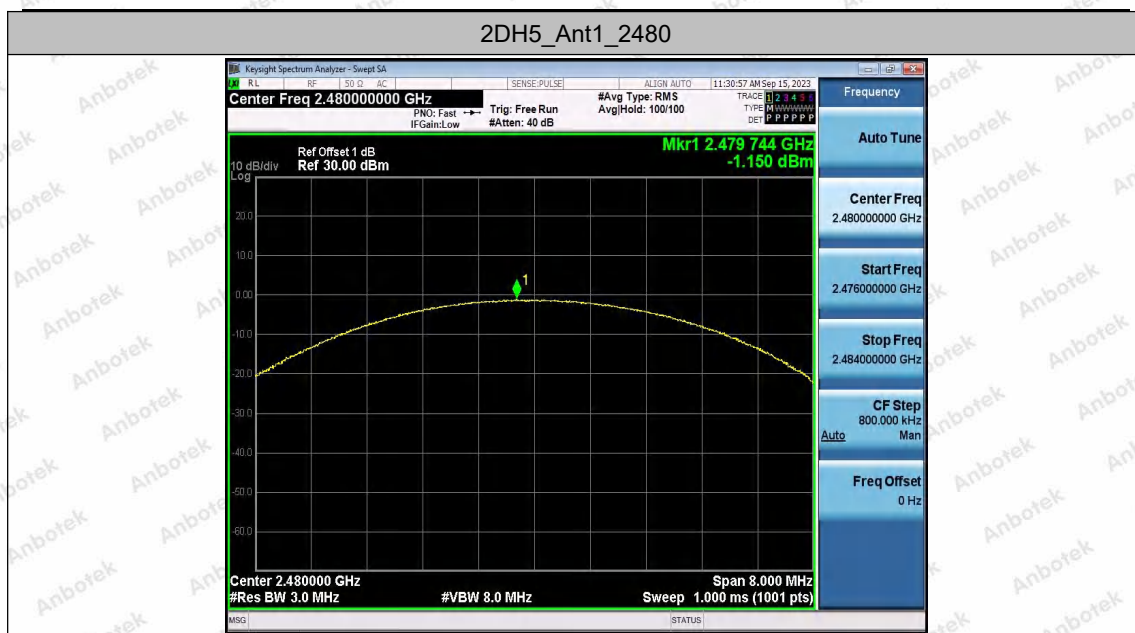
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.016	≥ 0.684	PASS
2DH5	Ant1	Hop	1.000	≥ 0.886	PASS



Test Graphs



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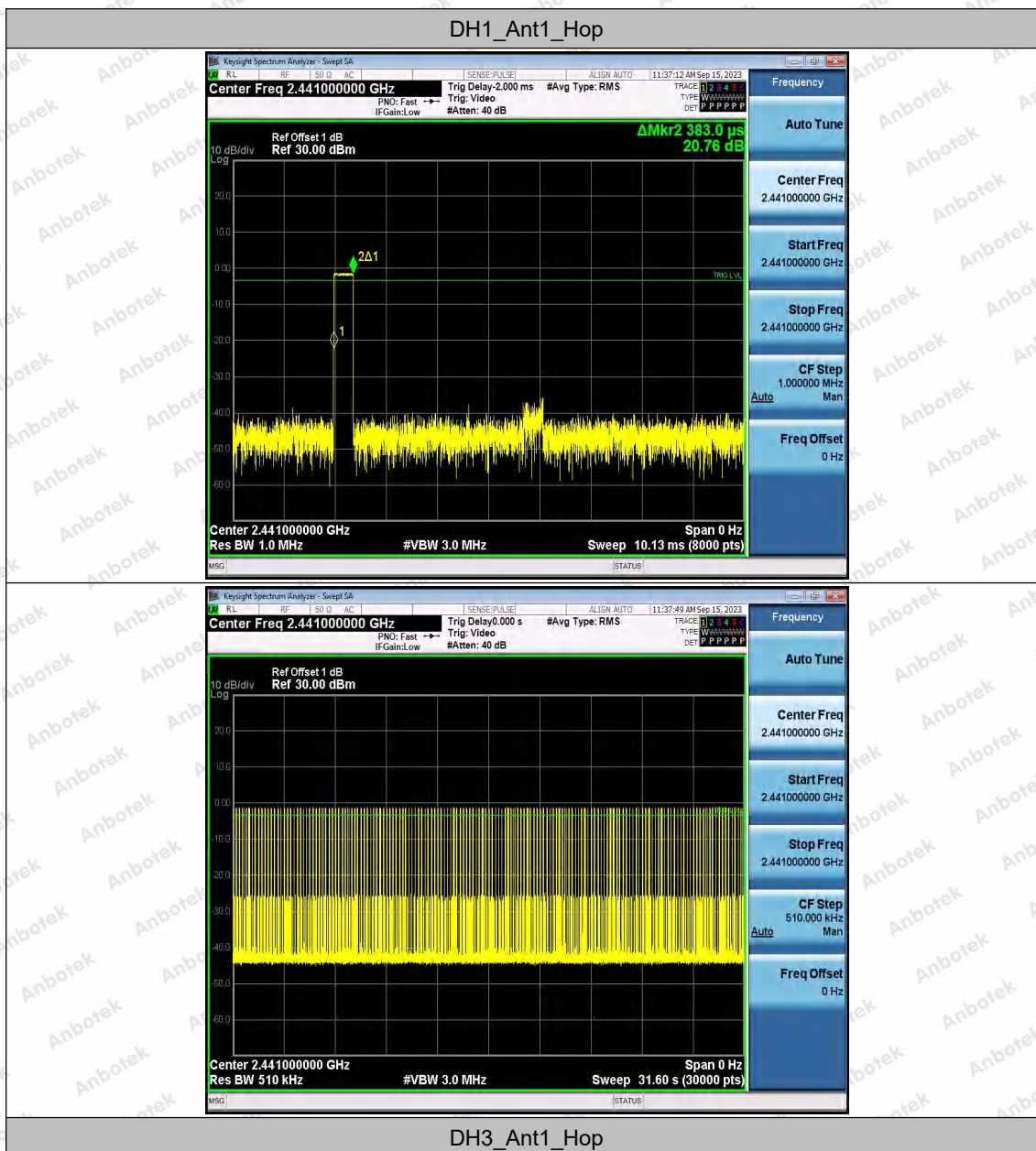
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.383	317	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.638	164	0.269	≤0.4	PASS
DH5	Ant1	Hop	2.885	96	0.277	≤0.4	PASS
2DH1	Ant1	Hop	0.390	316	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.643	160	0.263	≤0.4	PASS
2DH5	Ant1	Hop	2.891	108	0.312	≤0.4	PASS



Test Graphs



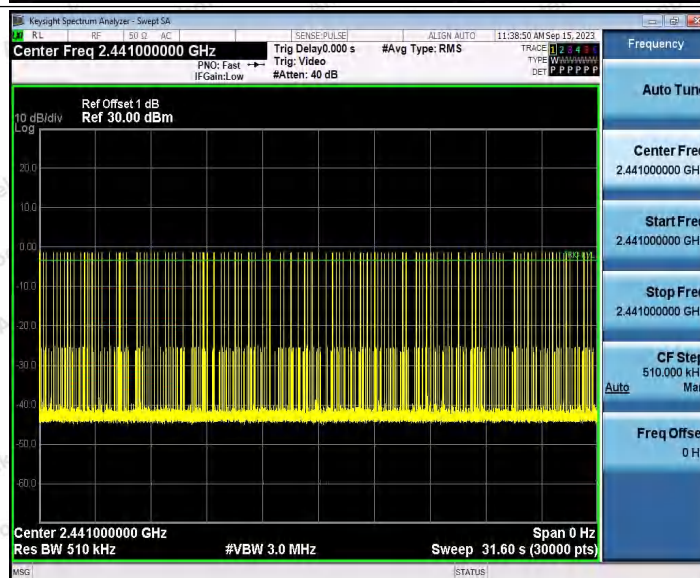
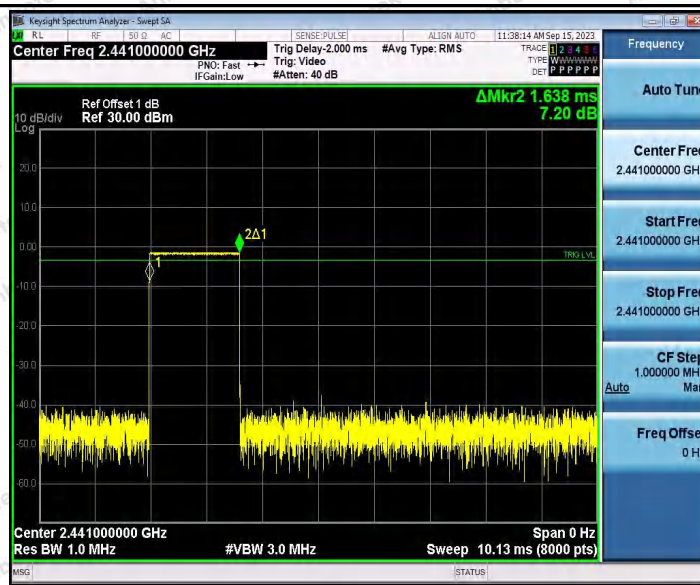
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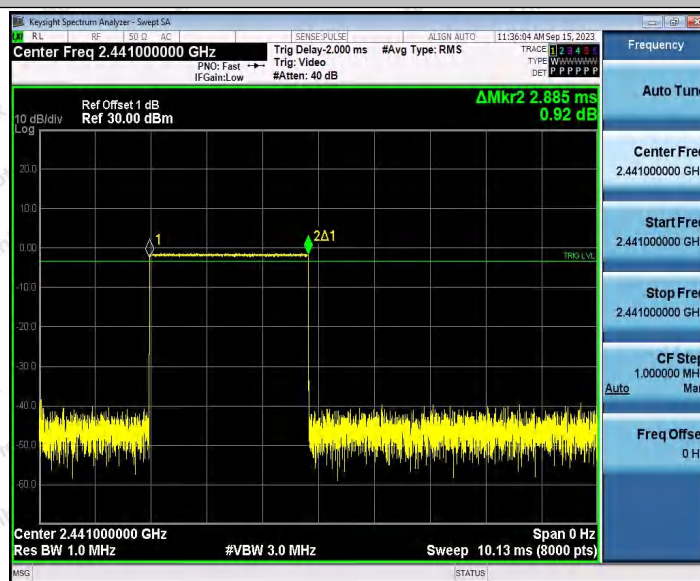


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DH5_Ant1_Hop



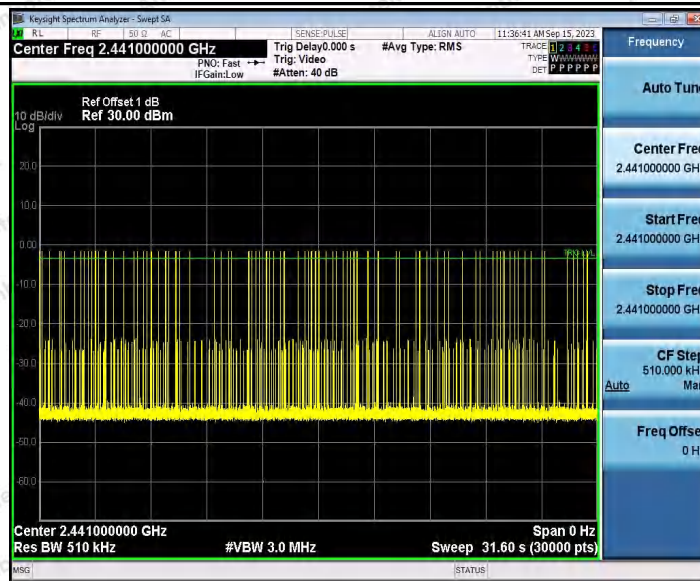
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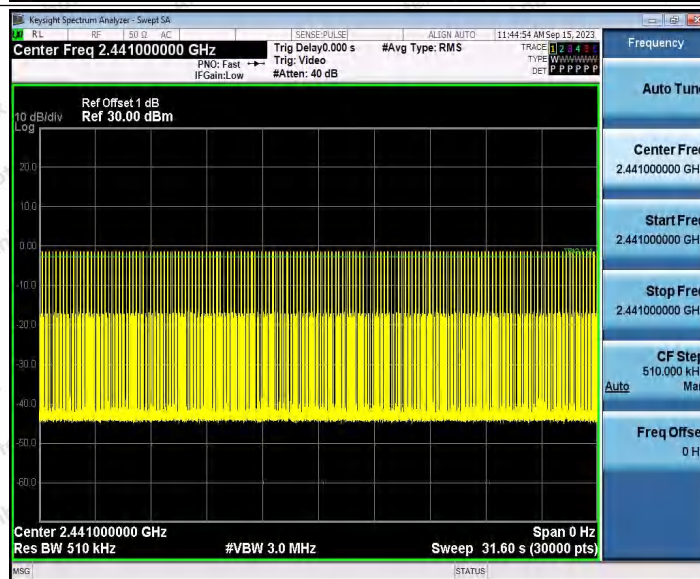
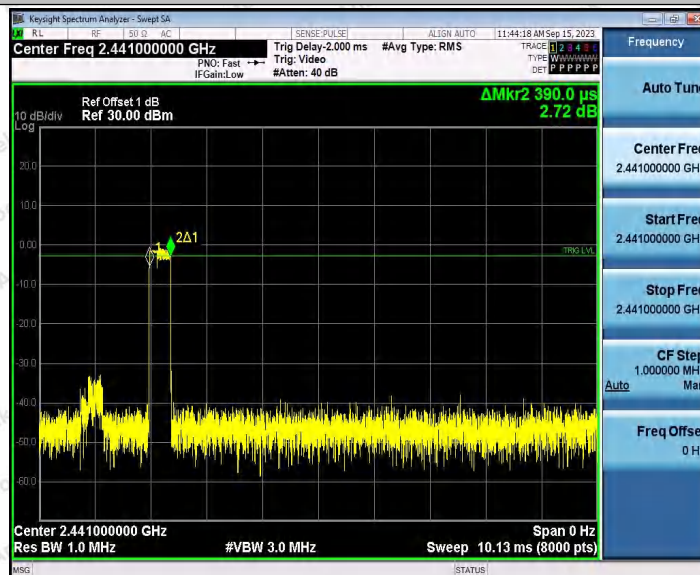


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

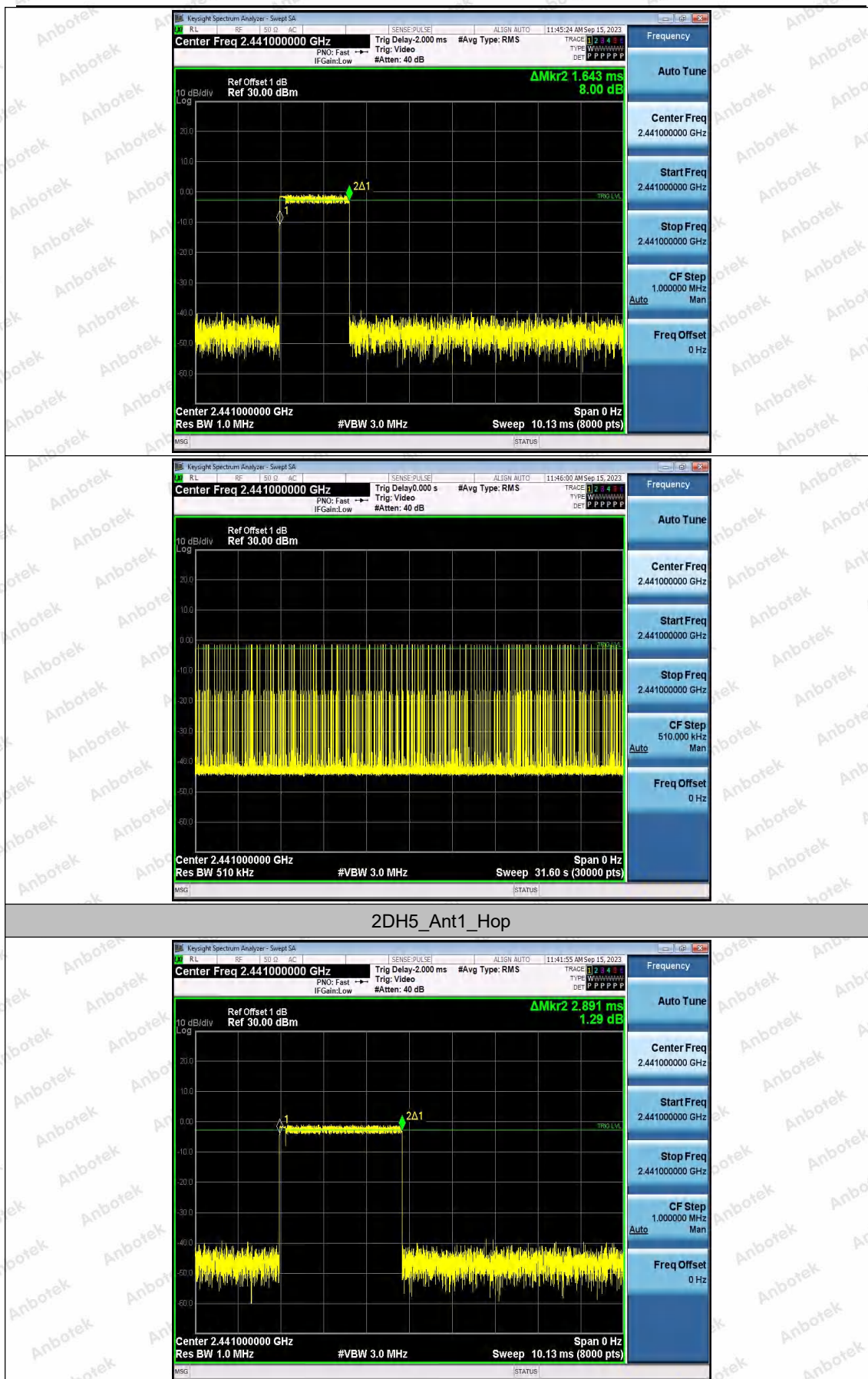
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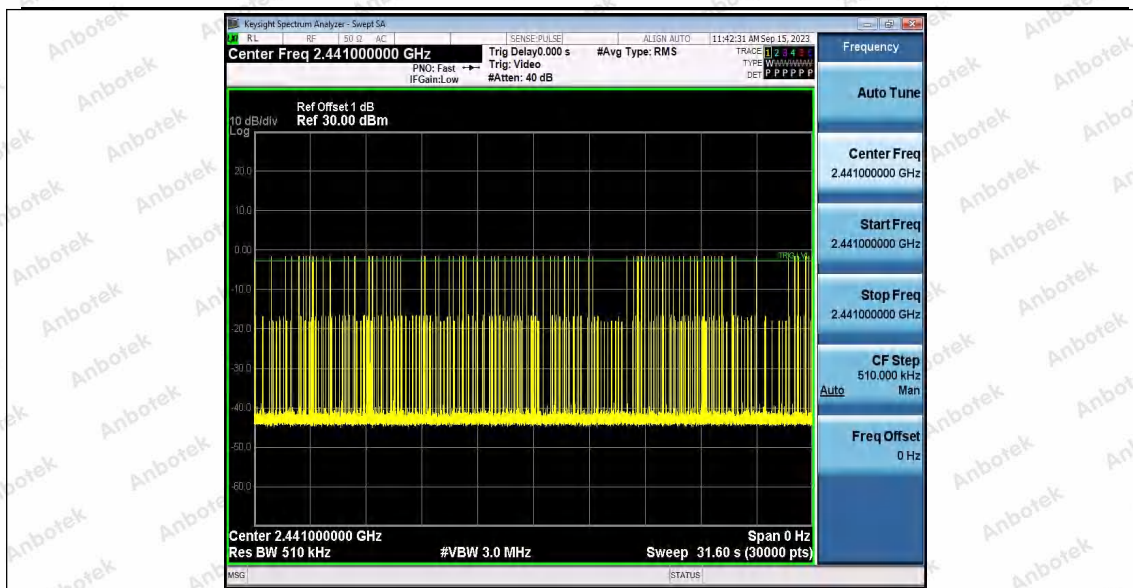
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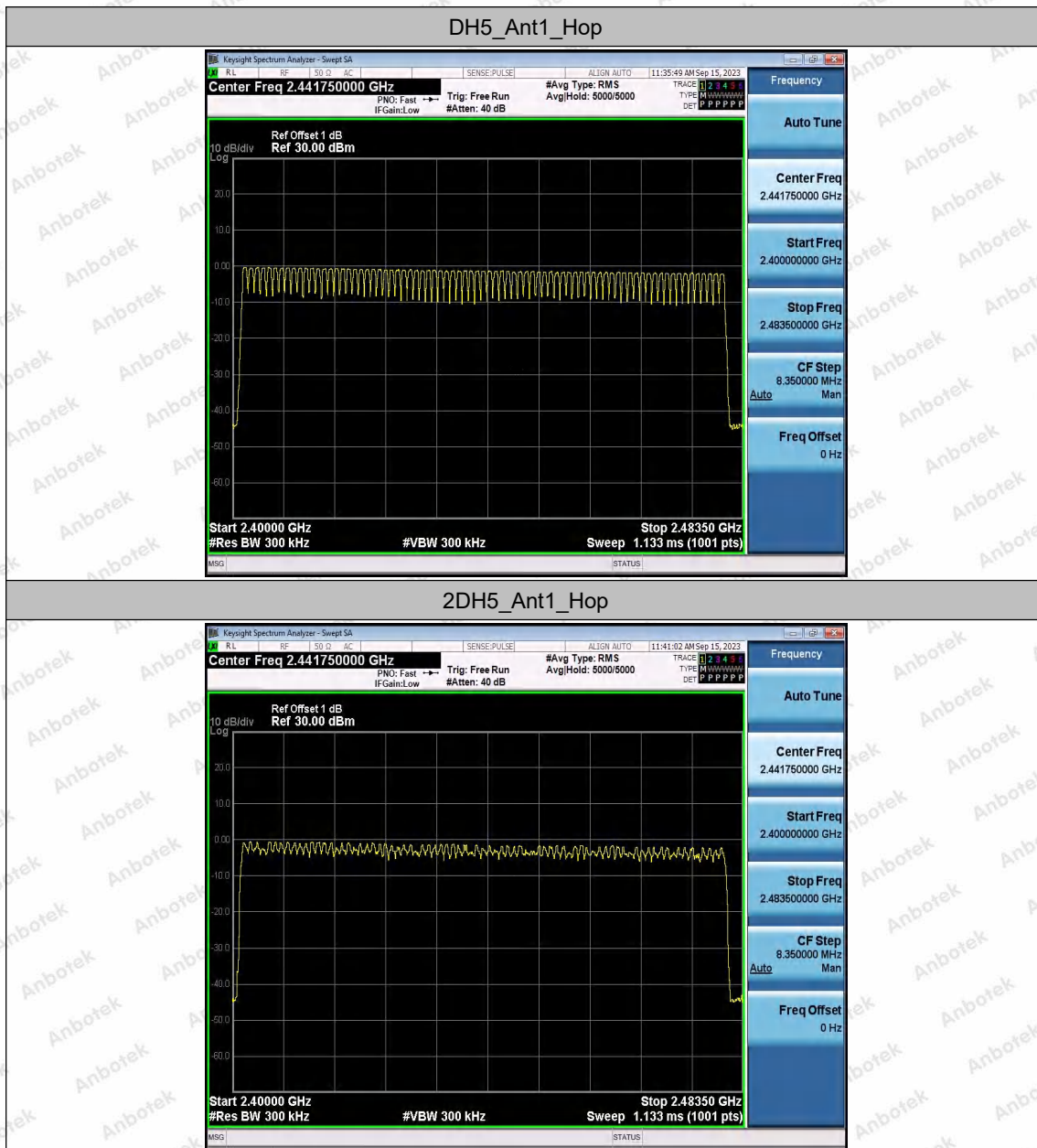
Appendix F: Number of hopping channels

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

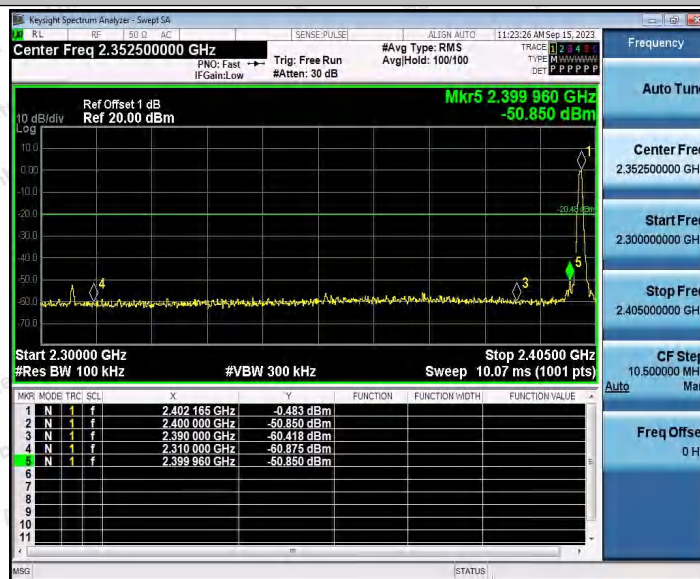
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.48	-50.85	≤-20.48	PASS
		High	2480	-2.73	-55.71	≤-22.73	PASS
		Low	Hop_2402	-0.80	-51.30	≤-20.8	PASS
		High	Hop_2480	-2.58	-52.15	≤-22.58	PASS
2DH5	Ant1	Low	2402	-1.74	-51.39	≤-21.74	PASS
		High	2480	-3.65	-56.67	≤-23.65	PASS
		Low	Hop_2402	-2.68	-51.33	≤-22.68	PASS
		High	Hop_2480	-3.22	-54.01	≤-23.22	PASS

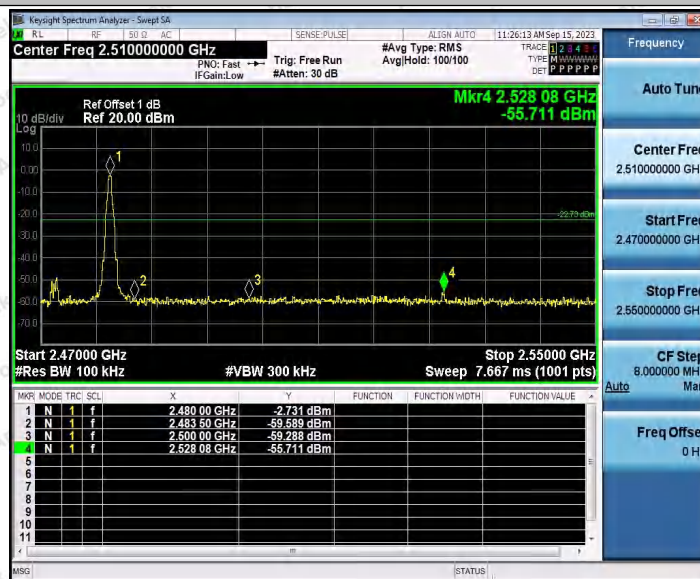


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

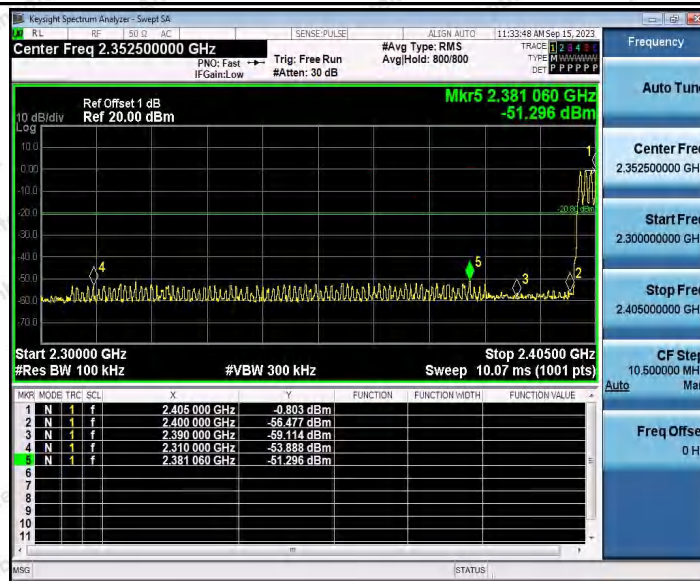
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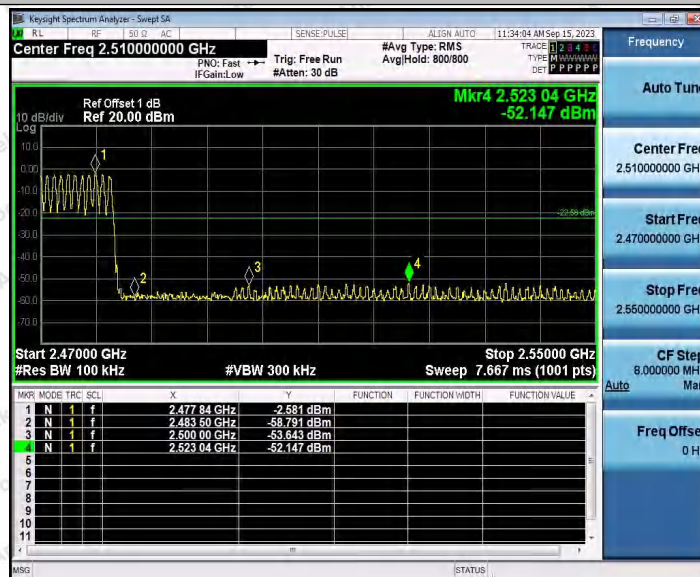


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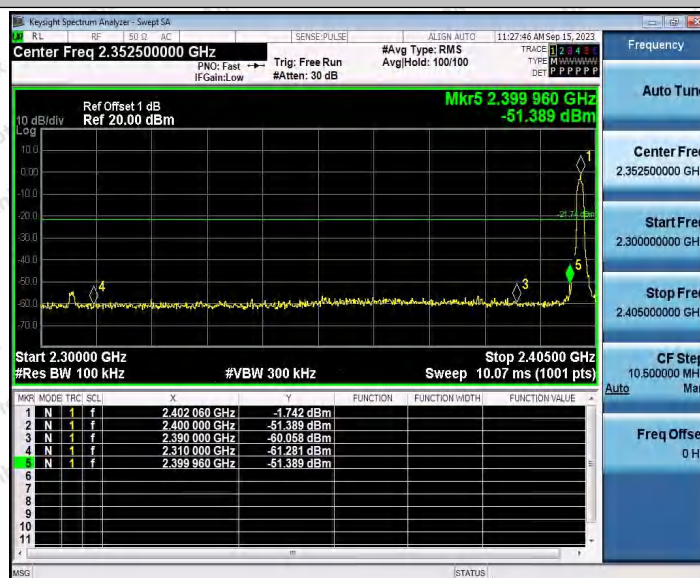




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



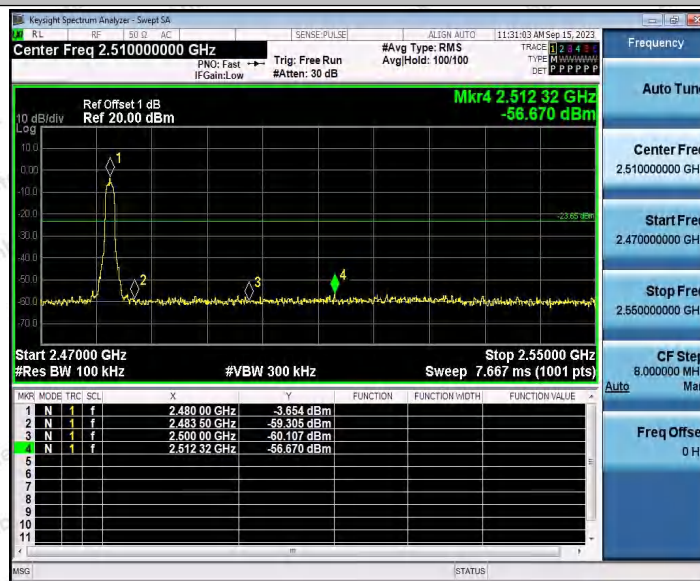
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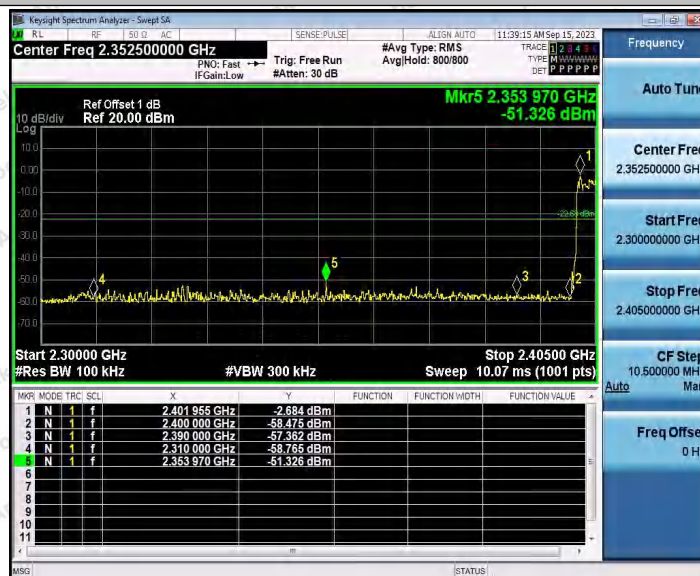
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

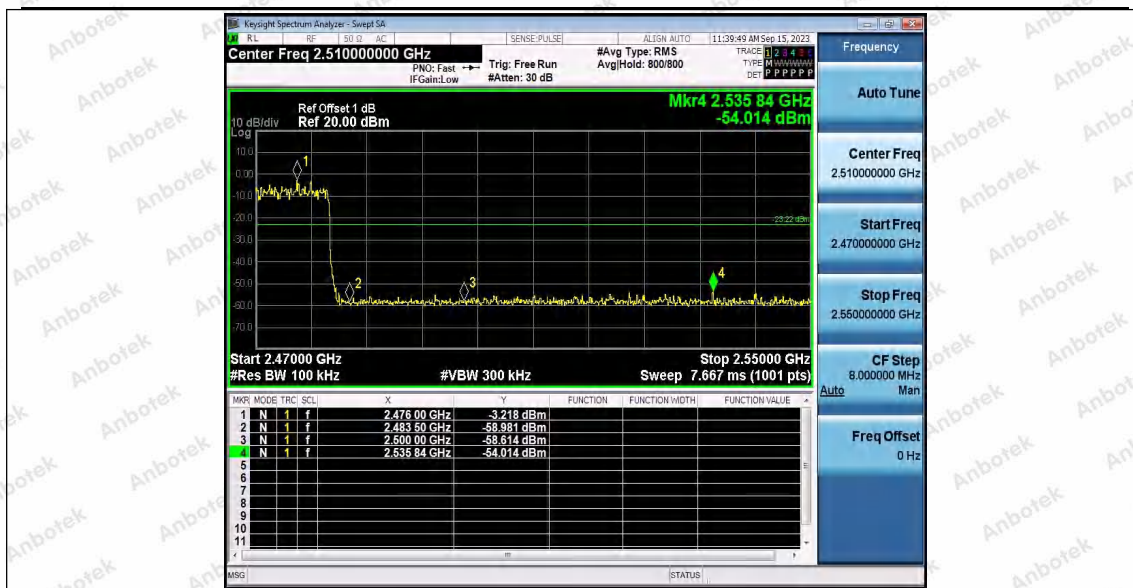
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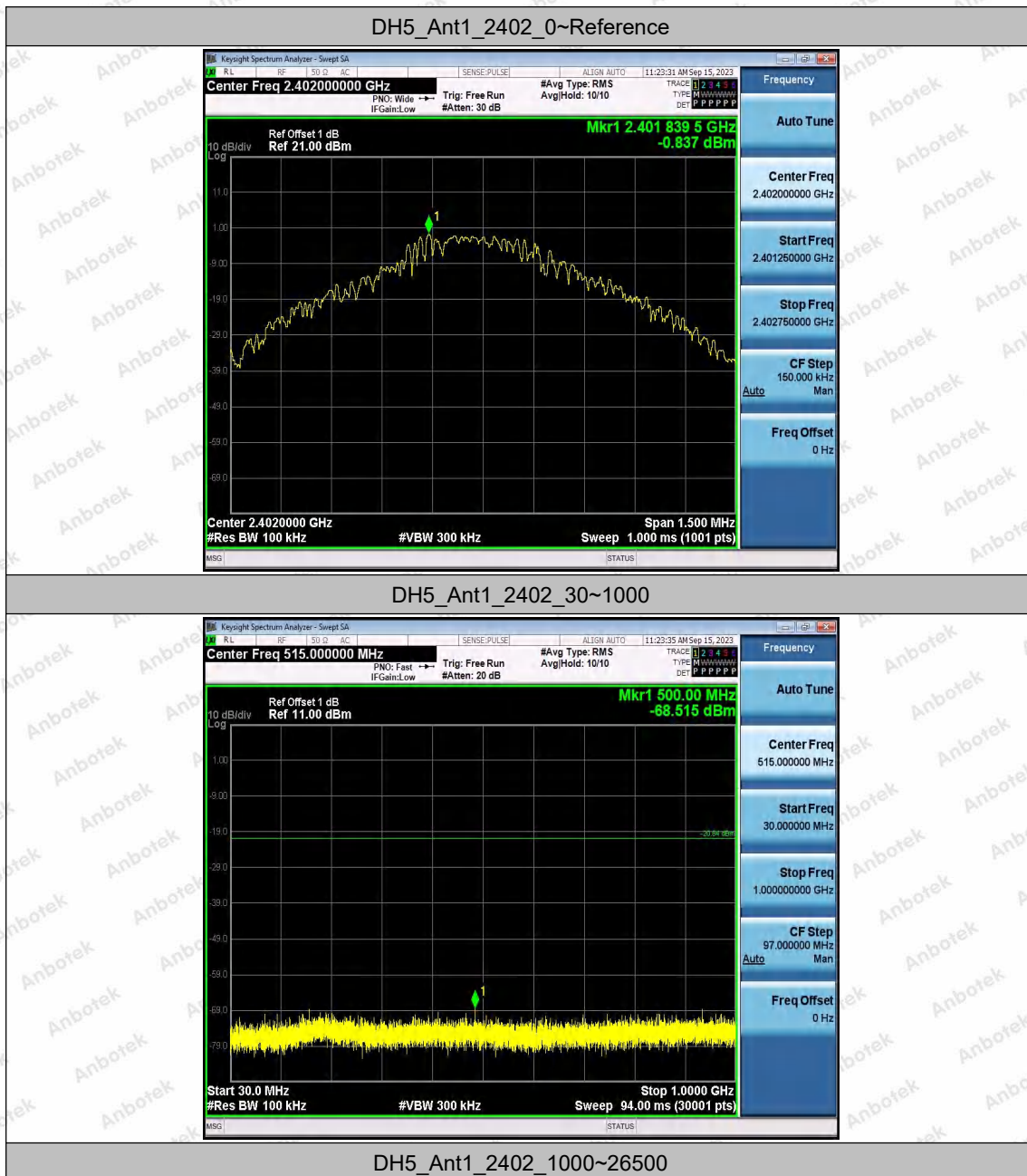
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-68.52	≤-20.84	PASS
			1000~26500	-0.84	-46.31	≤-20.84	PASS
		2441	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-67.8	≤-22.27	PASS
			1000~26500	-2.27	-47.54	≤-22.27	PASS
		2480	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-68.75	≤-23.1	PASS
			1000~26500	-3.10	-44.74	≤-23.1	PASS
2DH5	Ant1	2402	Reference	-1.54	-1.54	---	PASS
			30~1000	-1.54	-69.11	≤-21.54	PASS
			1000~26500	-1.54	-47.57	≤-21.54	PASS
		2441	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-69.55	≤-23.96	PASS
			1000~26500	-3.96	-48.91	≤-23.96	PASS
		2480	Reference	-2.55	-2.55	---	PASS
			30~1000	-2.55	-68.71	≤-22.55	PASS
			1000~26500	-2.55	-45.68	≤-22.55	PASS



Test Graphs



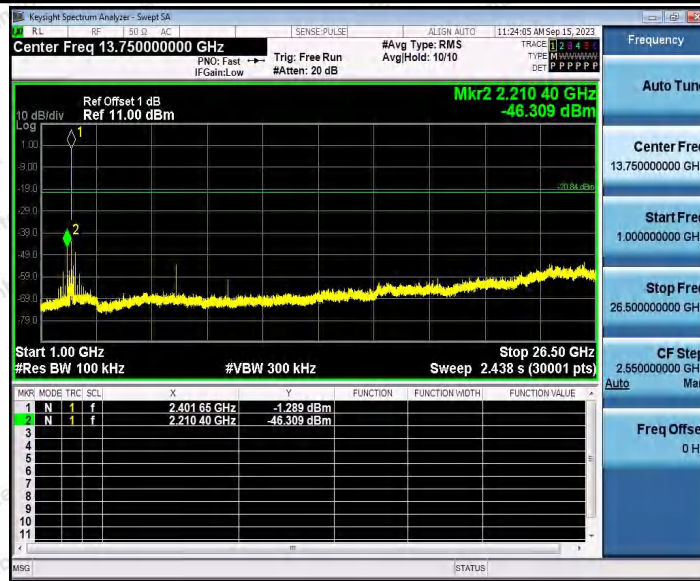
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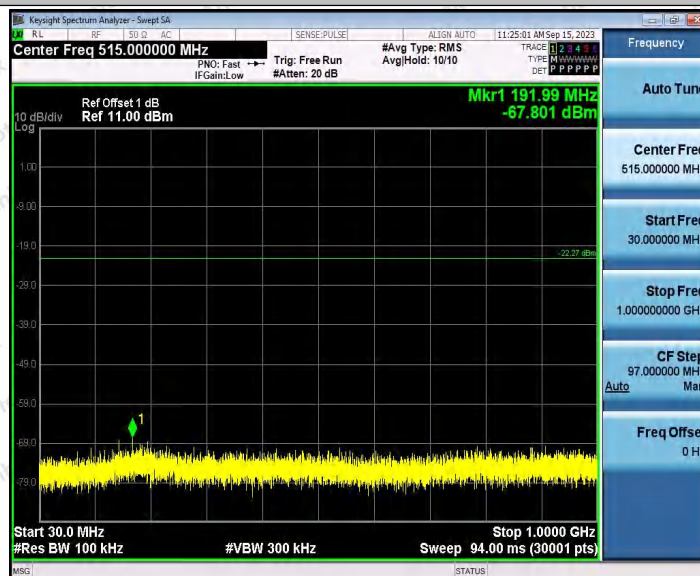




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



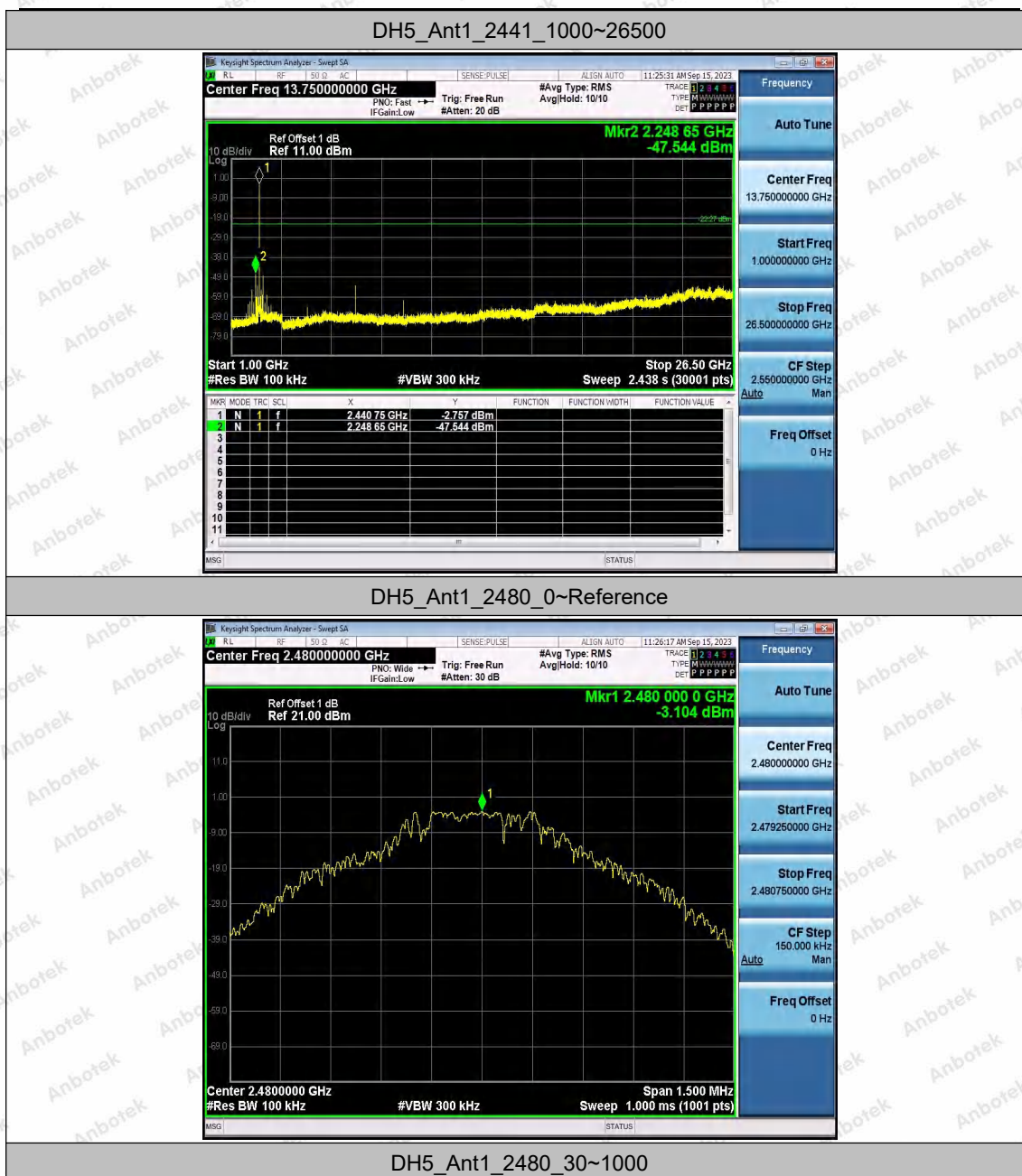
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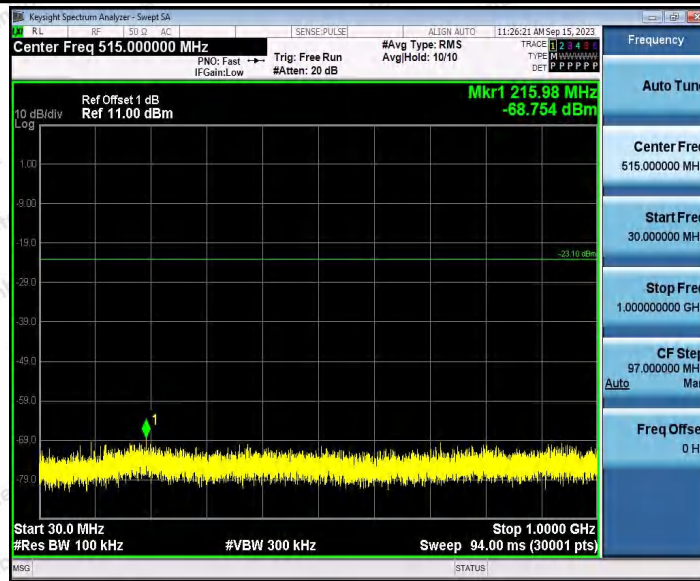
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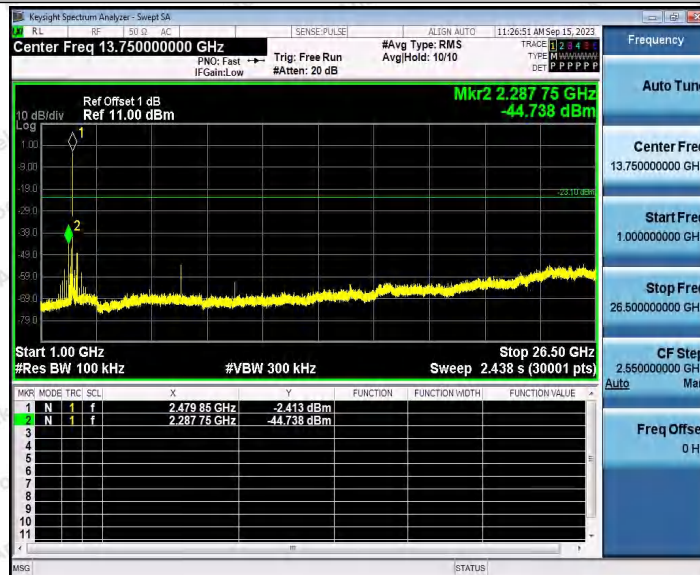


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



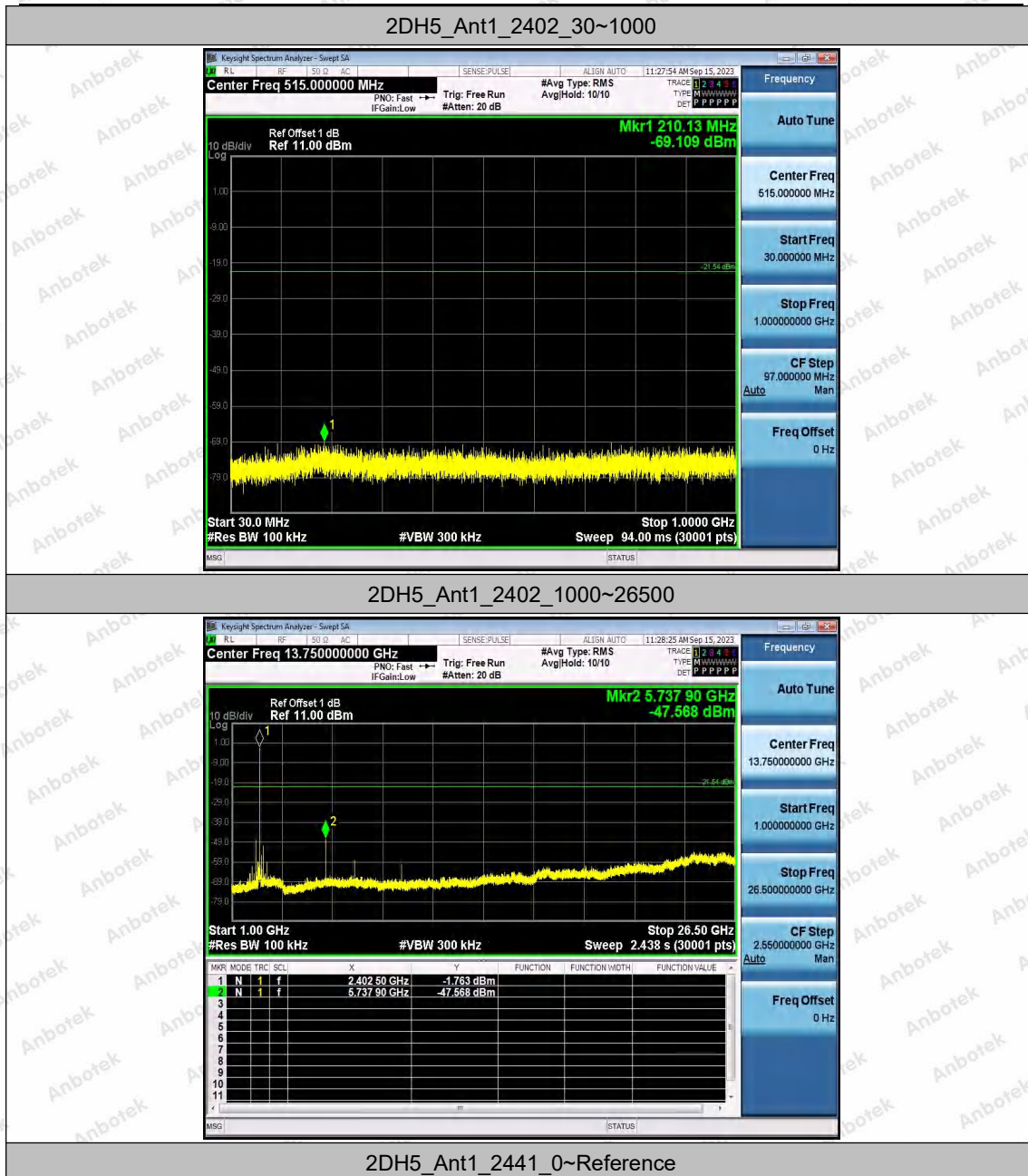
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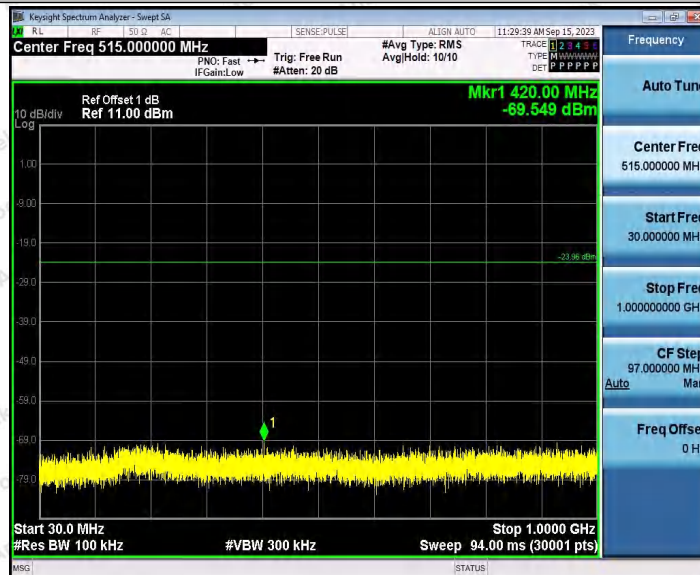


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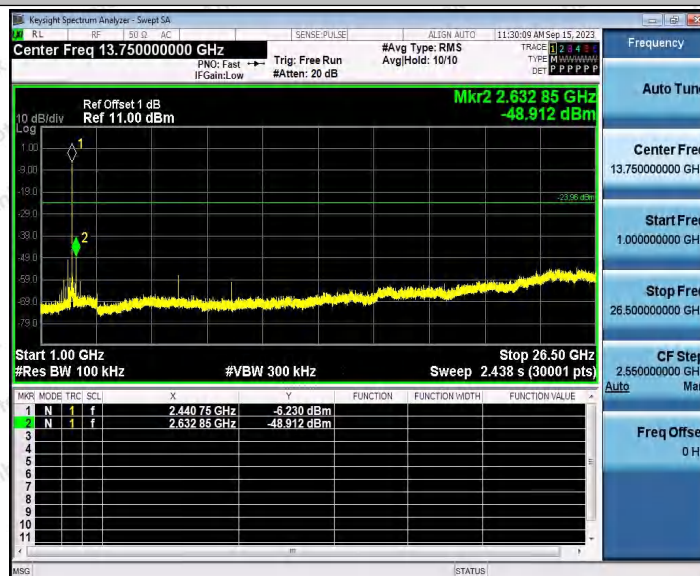




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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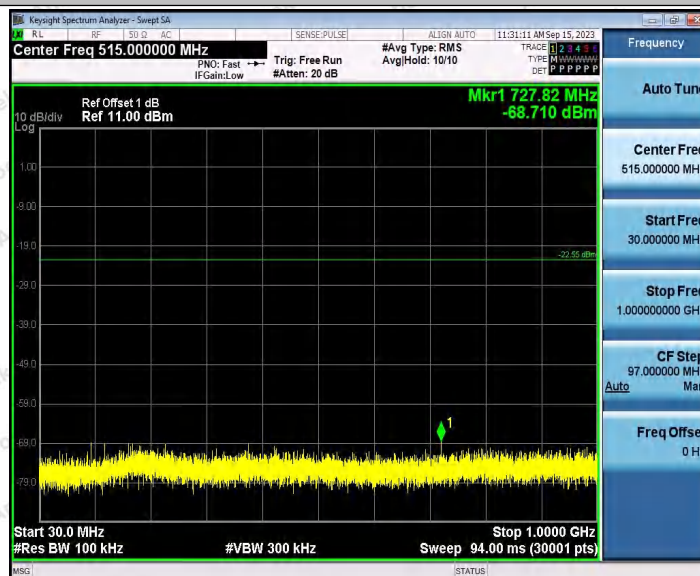
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

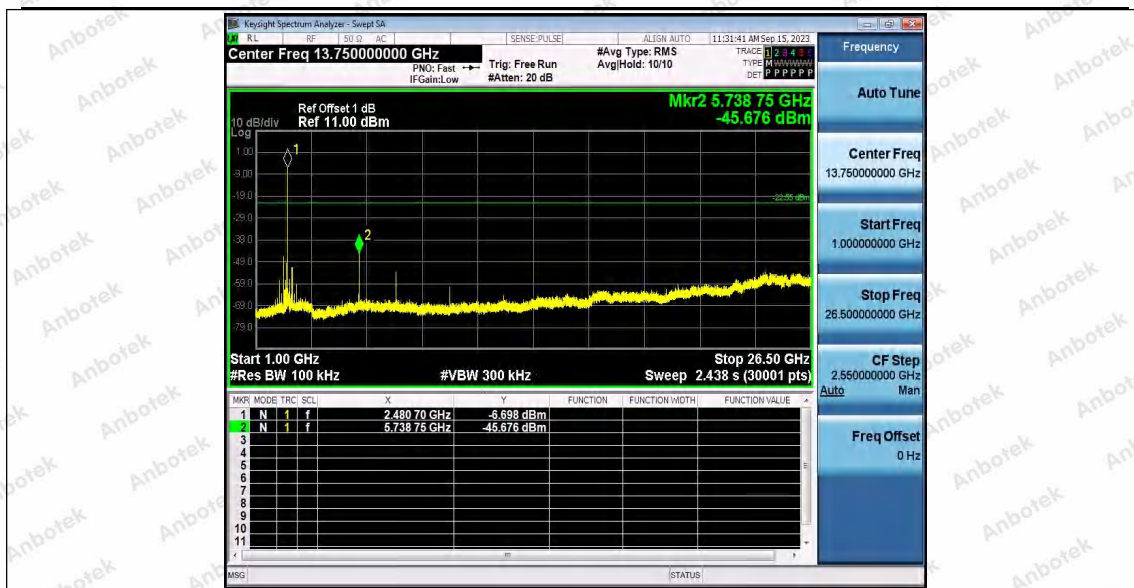
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Appendix I: Duty Cycle

Test Result

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

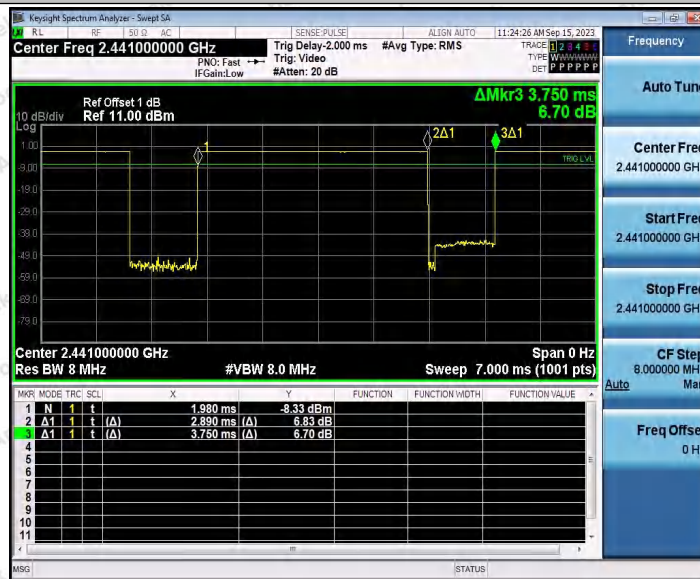


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

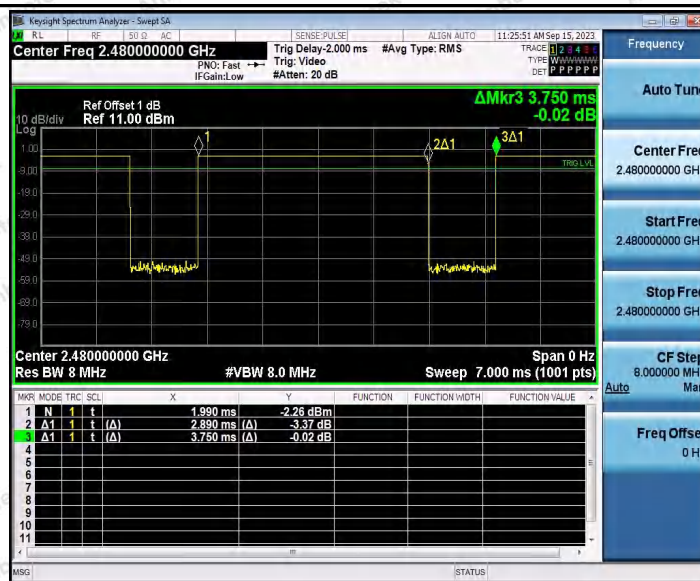
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

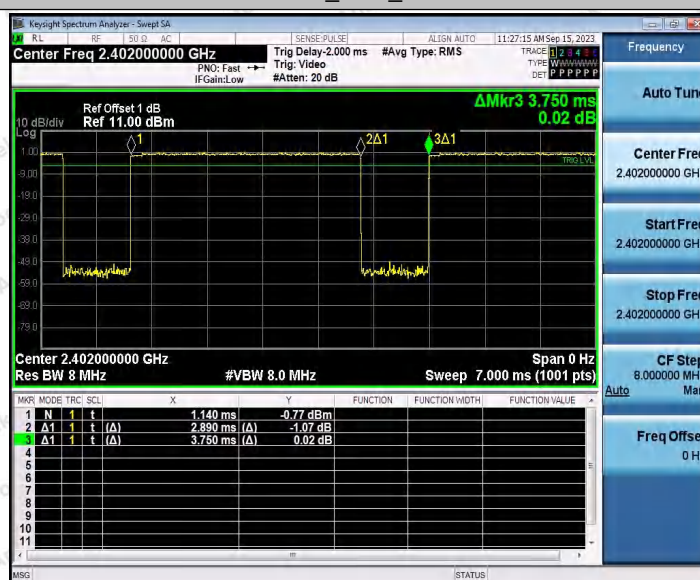


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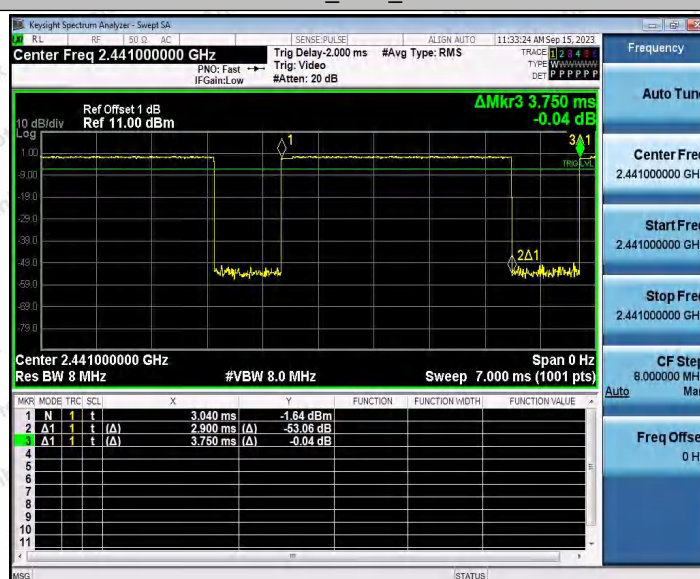




2DH5_Ant1_2402



2DH5_Ant1_2441



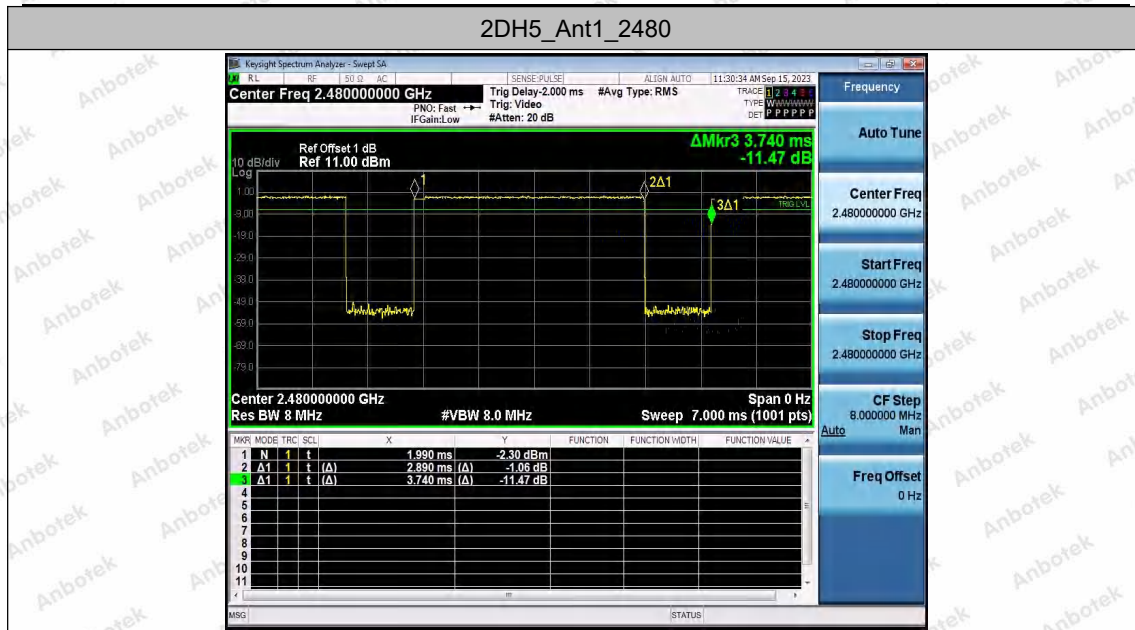
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