

FCC Appendix RF Test Data for BT

FCC ID : 2A7JV-GENIEJ1

Company : Shenzhen Jiutong zhichuang technology Co., Ltd

EUT : AI Plush Toys

Model Number : Genie J1

Report No. : CTA26080700201

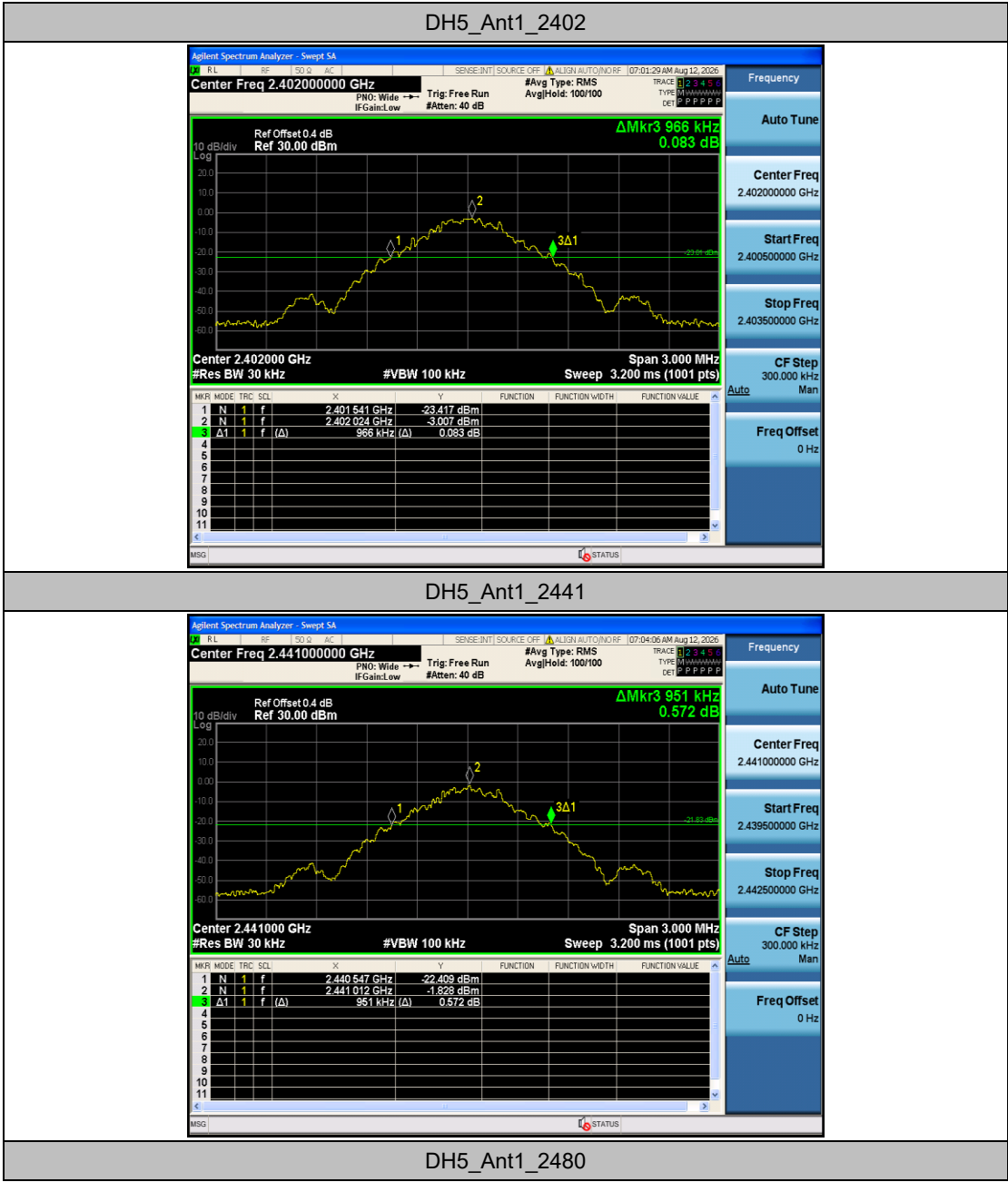
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.966	2401.541	2402.507	---	---
		2441	0.951	2440.547	2441.498	---	---
		2480	0.942	2479.547	2480.489	---	---
2DH5	Ant1	2402	1.332	2401.340	2402.672	---	---
		2441	1.332	2440.346	2441.678	---	---
		2480	1.272	2479.388	2480.660	---	---
3DH5	Ant1	2402	1.299	2401.361	2402.660	---	---
		2441	1.314	2440.358	2441.672	---	---
		2480	1.296	2479.361	2480.657	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

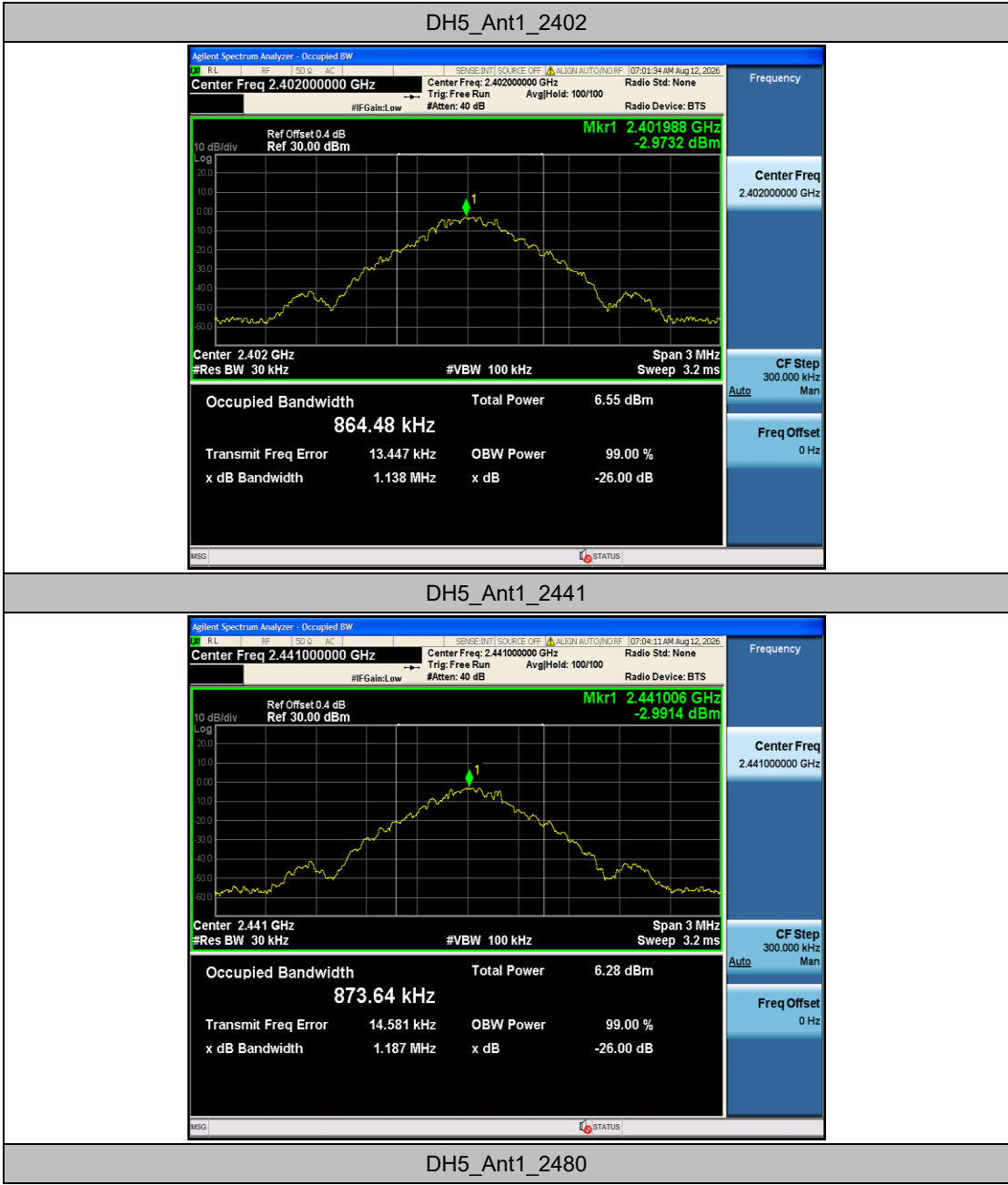


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86448	2401.5812	2402.4457	---	---
		2441	0.87364	2440.5778	2441.4514	---	---
		2480	0.86990	2479.5761	2480.4460	---	---
2DH5	Ant1	2402	1.1973	2401.4114	2402.6087	---	---
		2441	1.2008	2440.4096	2441.6104	---	---
		2480	1.1821	2479.4225	2480.6046	---	---
3DH5	Ant1	2402	1.2002	2401.4111	2402.6113	---	---
		2441	1.1913	2440.4164	2441.6077	---	---
		2480	1.1815	2479.4221	2480.6036	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.07	≤20.97	PASS
		2441	-0.06	≤20.97	PASS
		2480	-0.35	≤20.97	PASS
2DH5	Ant1	2402	-0.81	≤20.97	PASS
		2441	-0.87	≤20.97	PASS
		2480	-1.22	≤20.97	PASS
3DH5	Ant1	2402	-0.32	≤20.97	PASS
		2441	-0.54	≤20.97	PASS
		2480	-0.87	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.988	≥ 0.966	PASS
2DH5	Ant1	Hop	0.998	≥ 0.888	PASS
3DH5	Ant1	Hop	1.028	≥ 0.876	PASS

Test Graphs



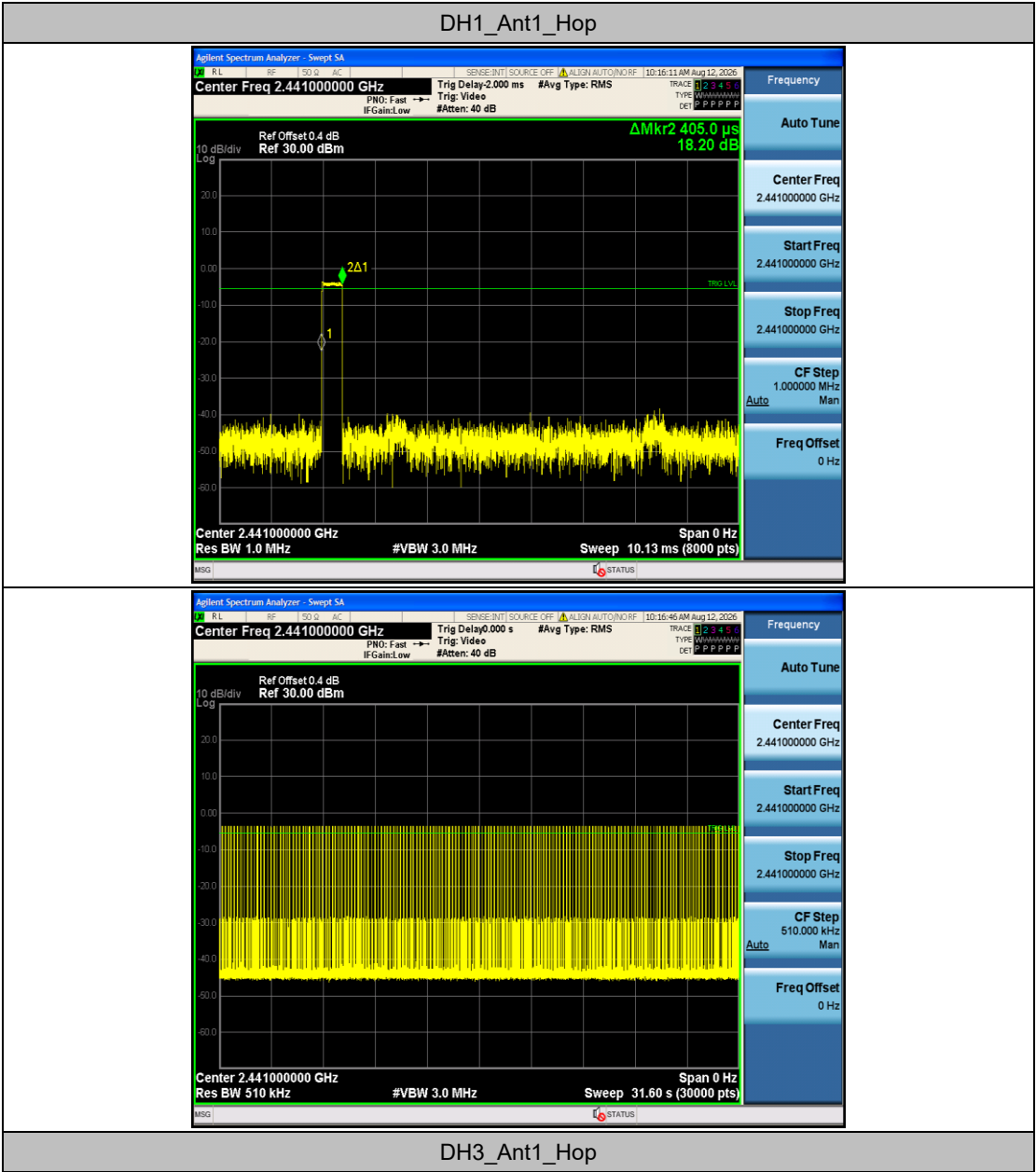


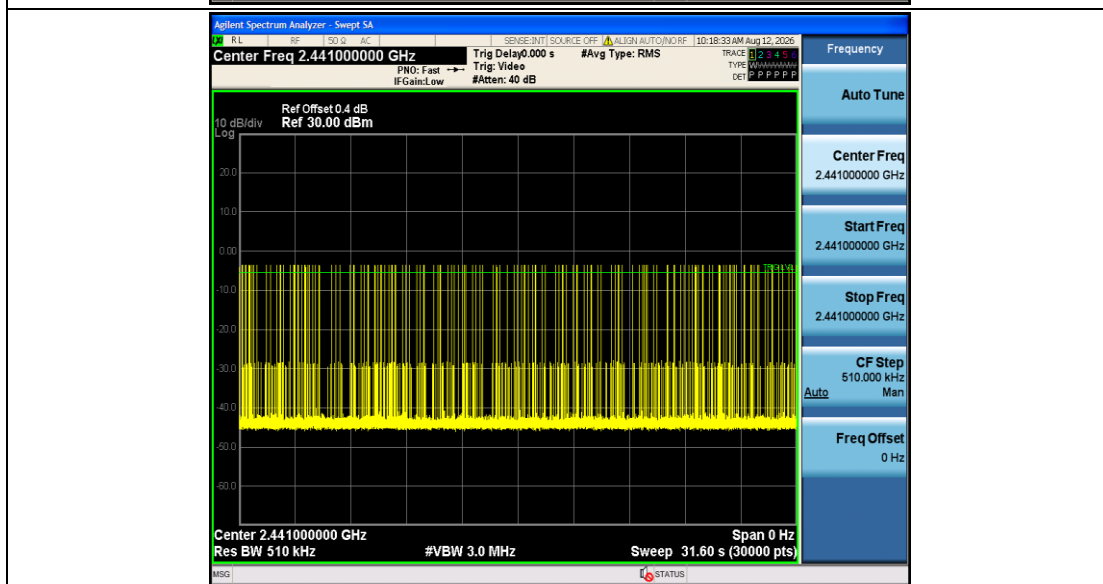
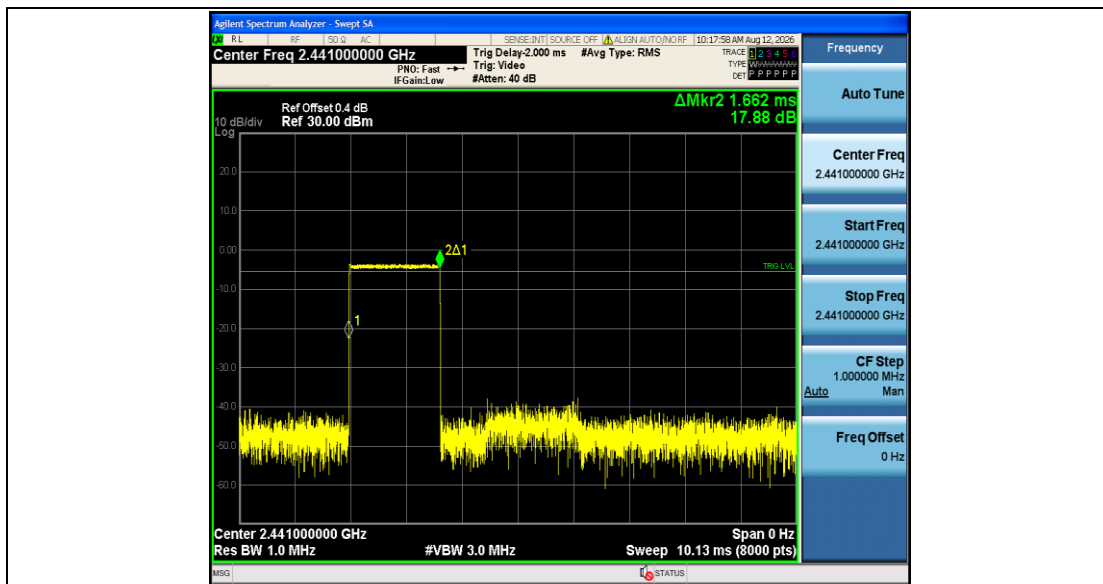
Appendix E: Time of occupancy

Test Result

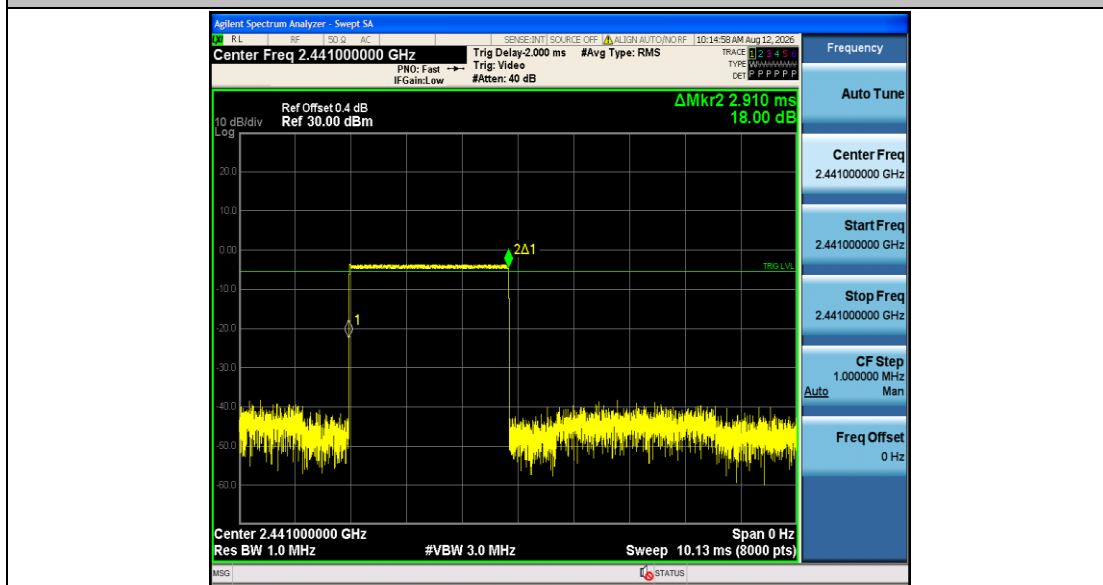
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	318	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	155	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.910	102	0.297	≤0.4	PASS
2DH1	Ant1	Hop	0.415	313	0.13	≤0.4	PASS
2DH3	Ant1	Hop	1.668	157	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.916	114	0.332	≤0.4	PASS
3DH1	Ant1	Hop	0.414	318	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.664	160	0.266	≤0.4	PASS
3DH5	Ant1	Hop	2.916	100	0.292	≤0.4	PASS

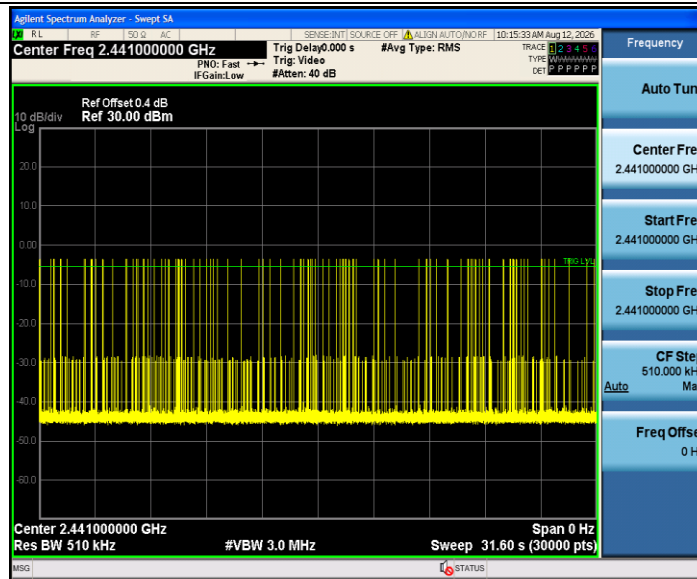
Test Graphs



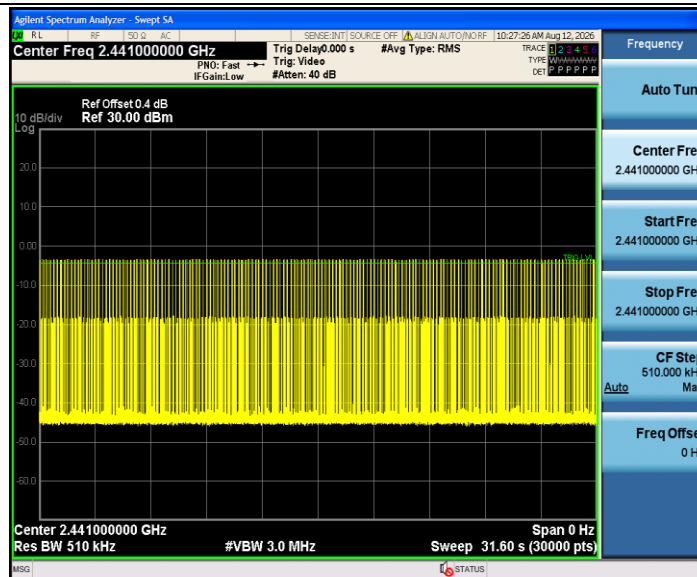
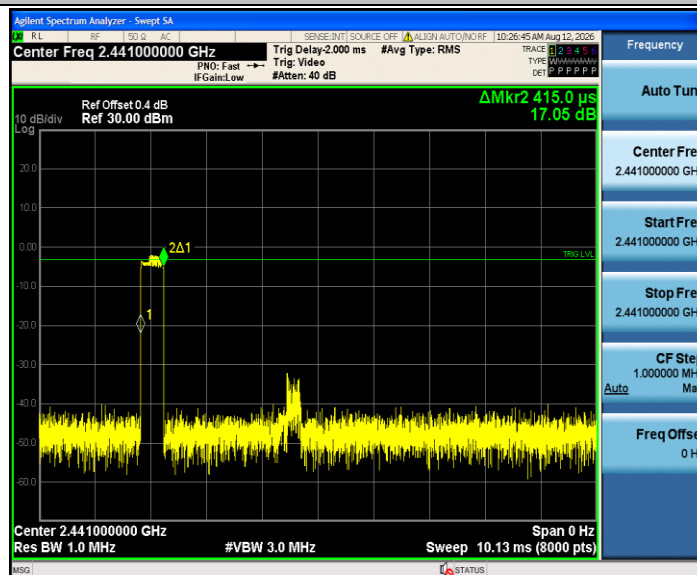


DH5_Ant1_Hop

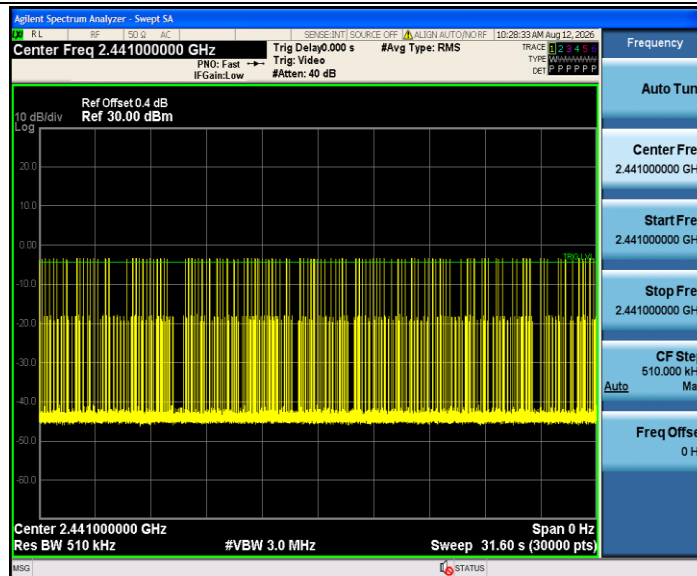
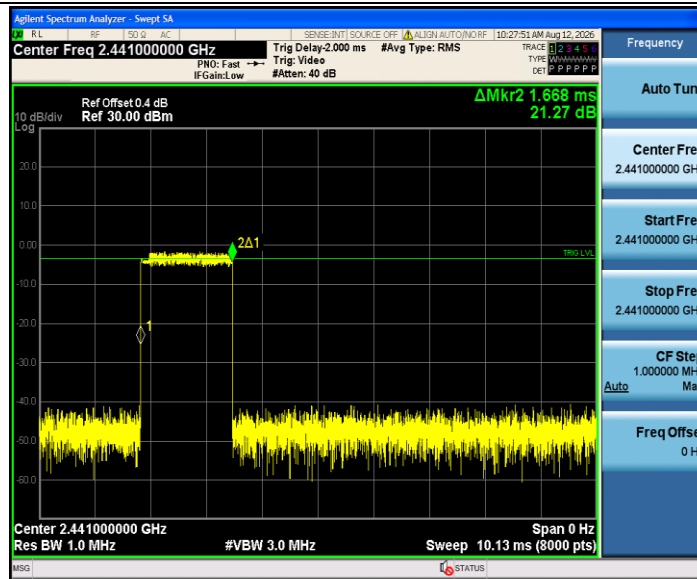




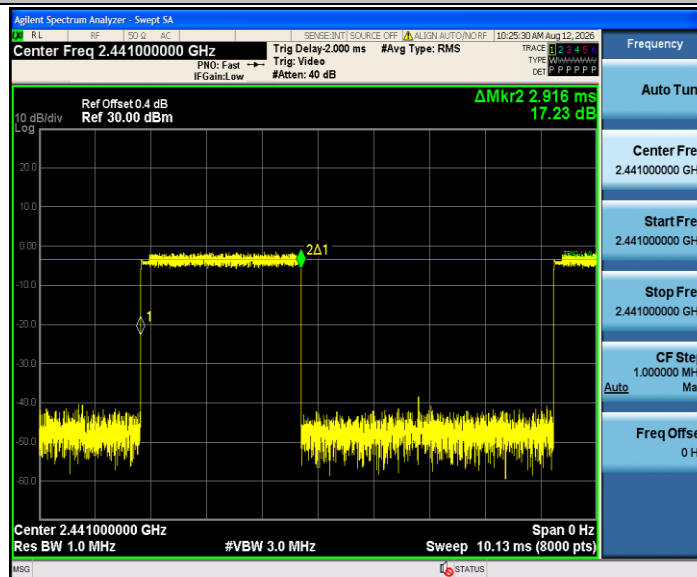
2DH1_Ant1_Hop

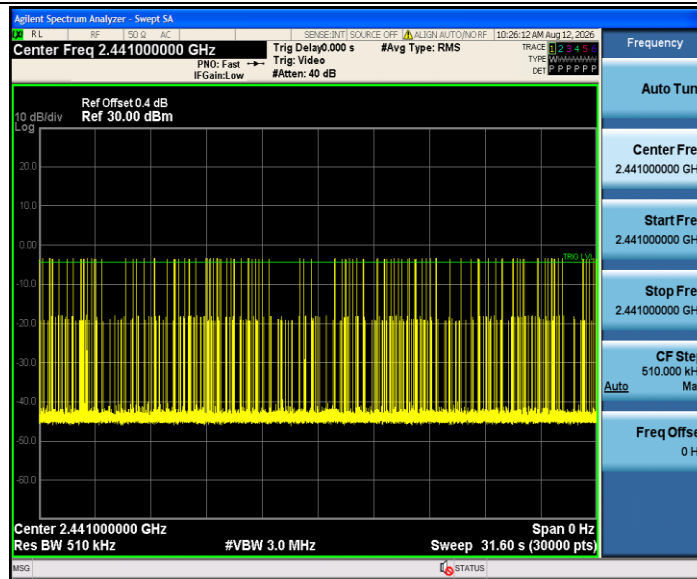


2DH3_Ant1_Hop

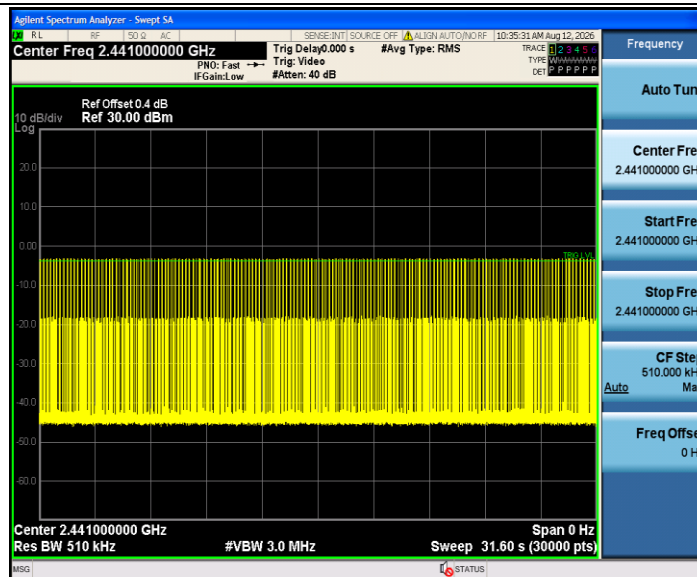
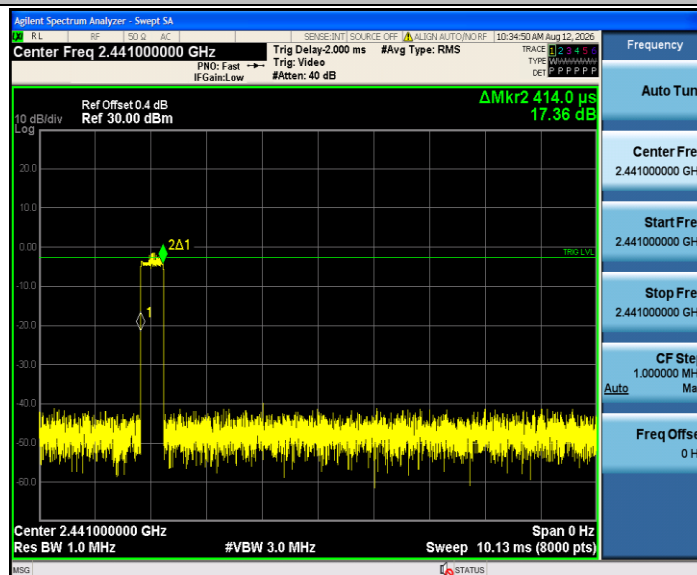


2DH5_Ant1_Hop

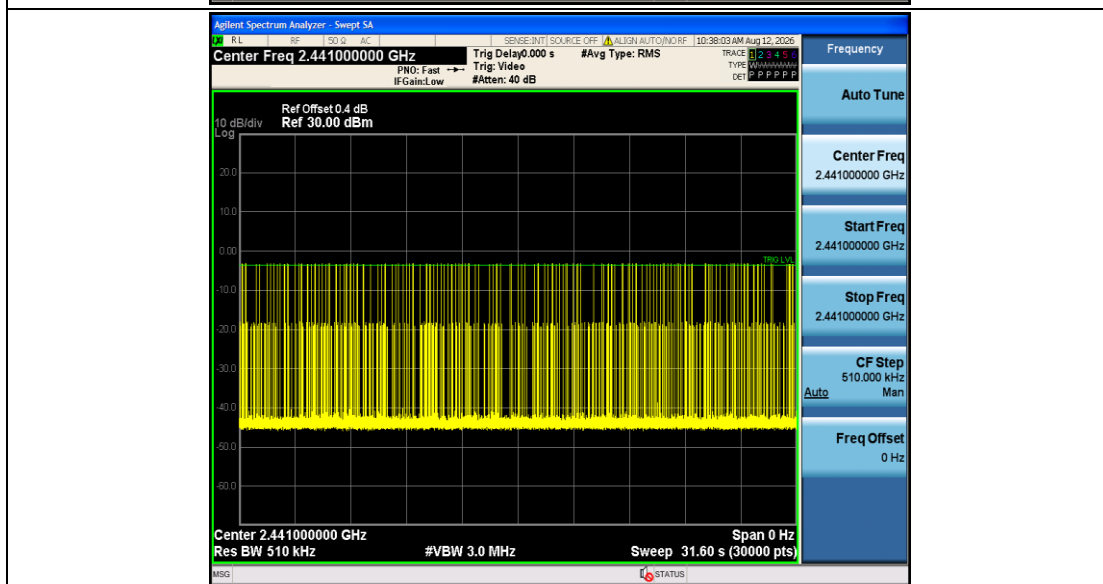
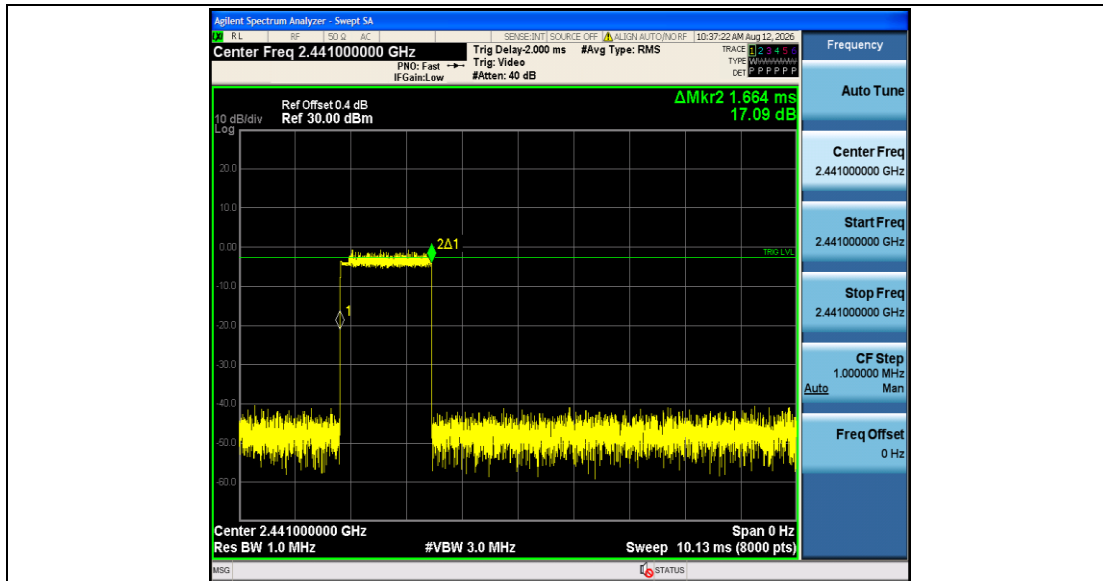




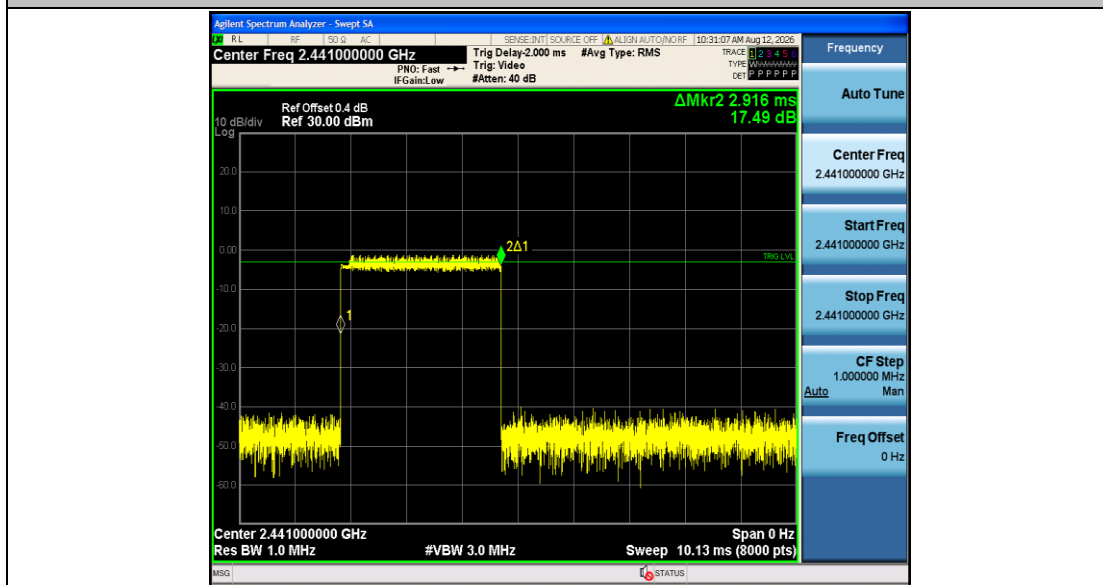
3DH1_Ant1_Hop

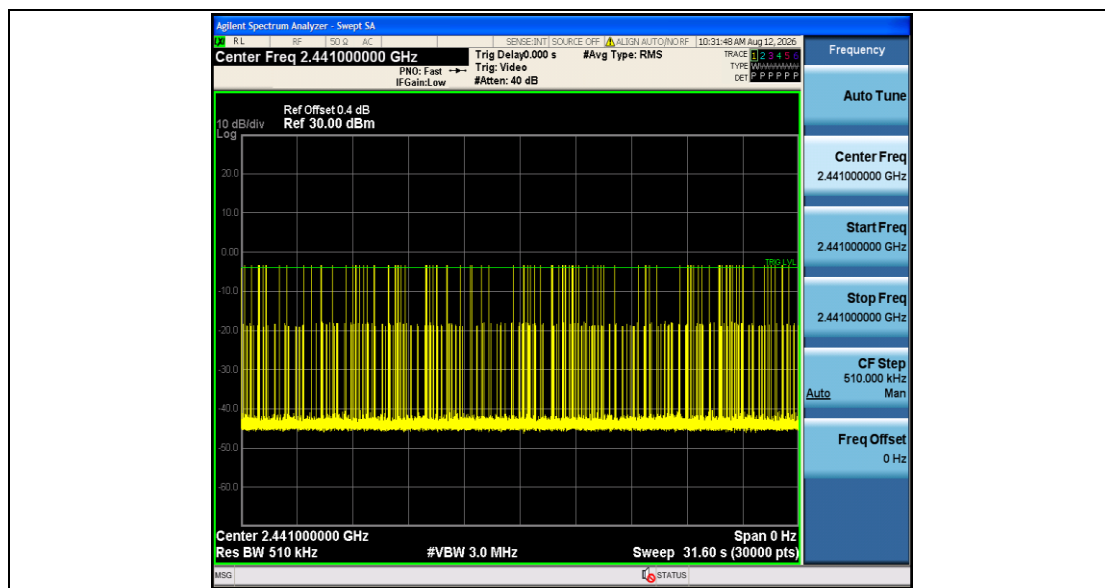


3DH3_Ant1_Hop



3DH5_Ant1_Hop



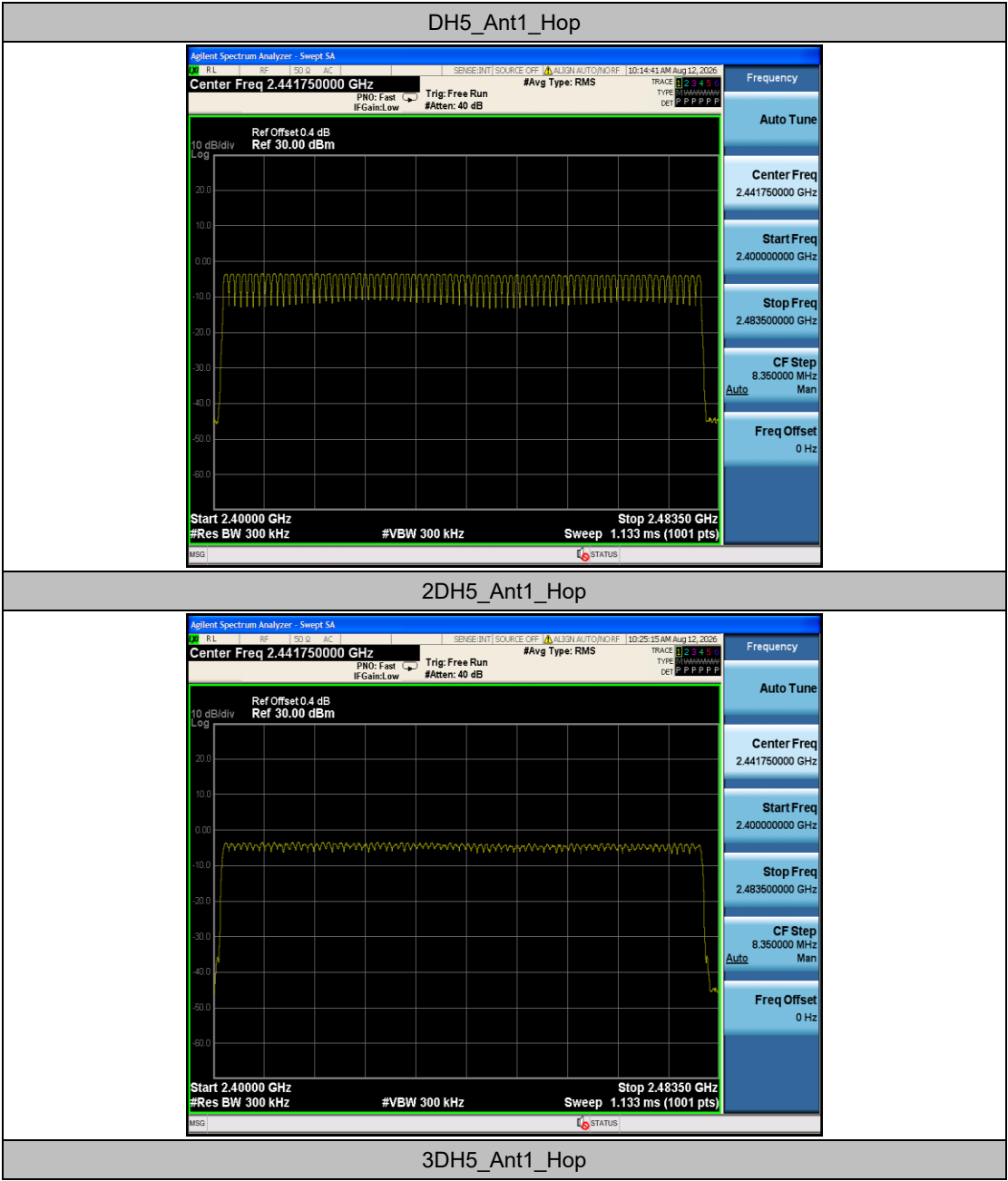


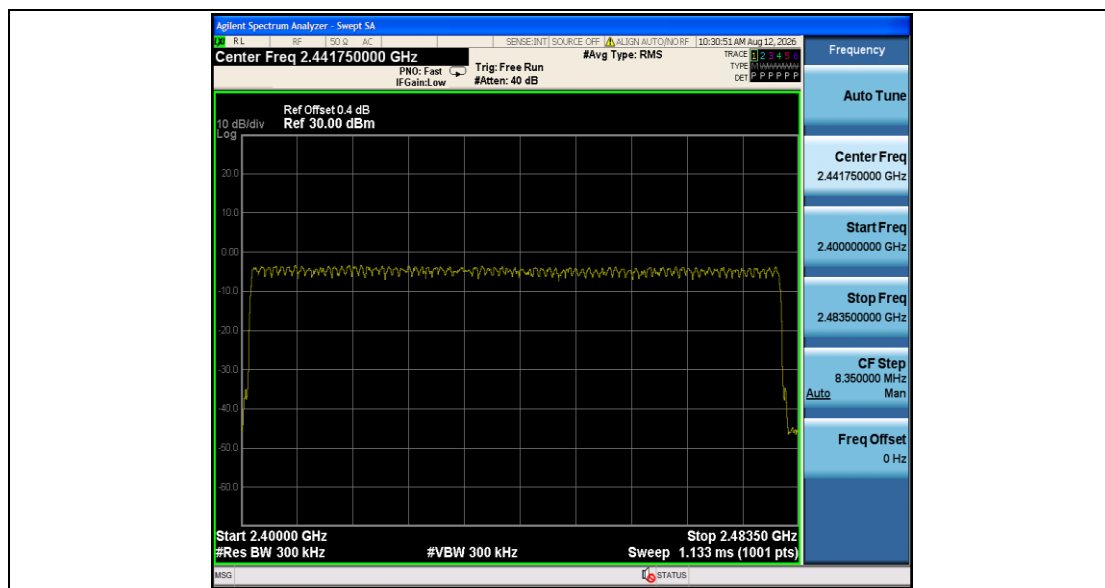
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



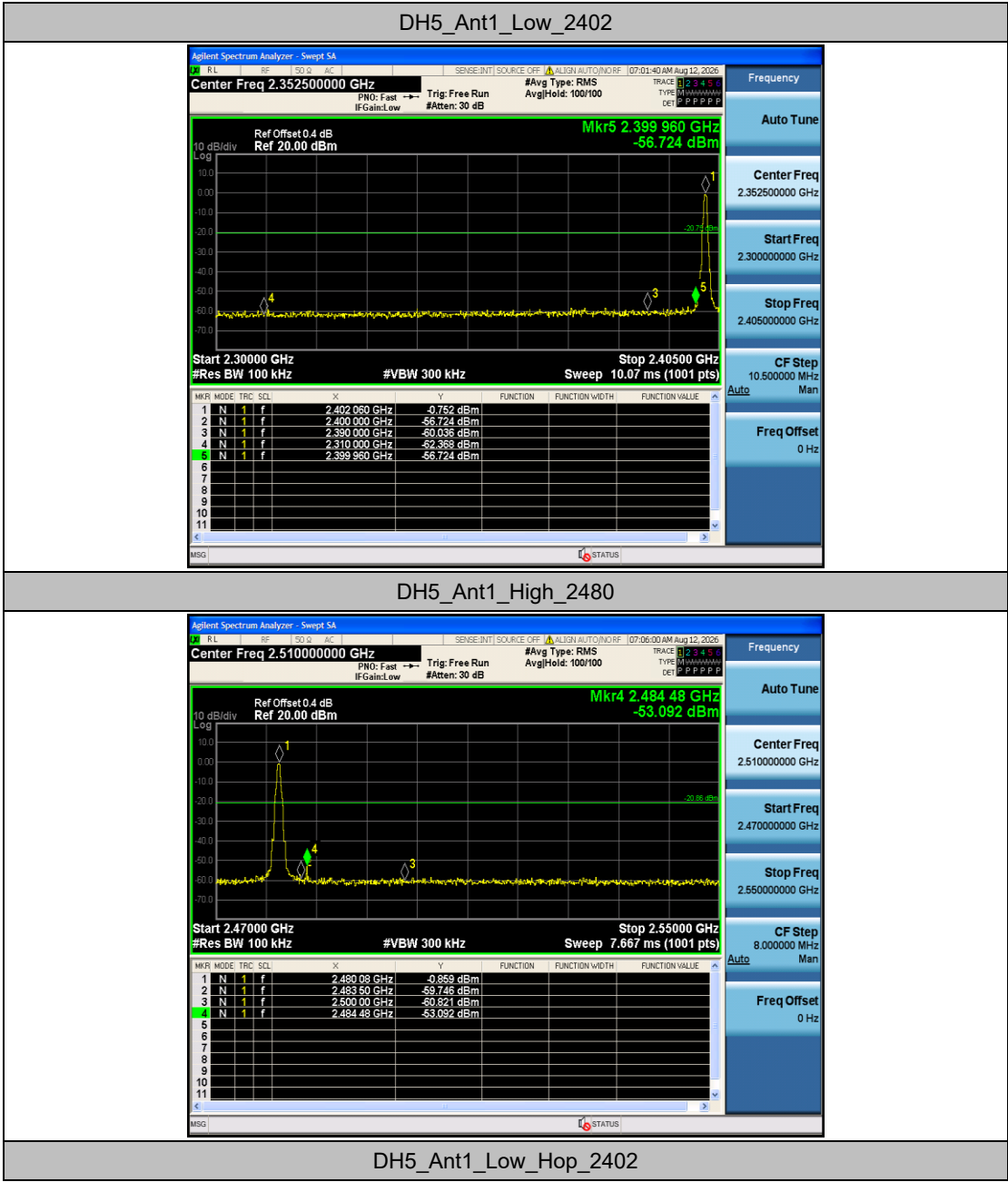


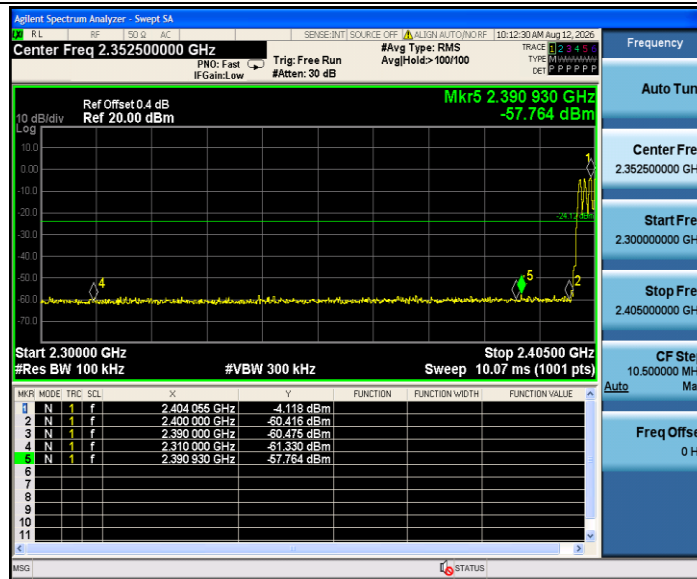
Appendix G: Band edge measurements

Test Result

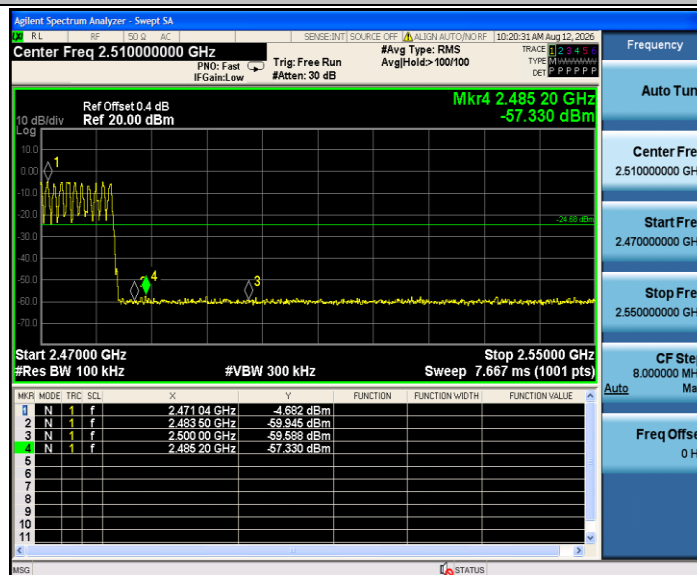
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.75	-56.72	≤-20.75	PASS
		High	2480	-0.86	-53.09	≤-20.86	PASS
		Low	Hop_2402	-4.12	-57.76	≤-24.12	PASS
		High	Hop_2480	-4.68	-57.33	≤-24.68	PASS
2DH5	Ant1	Low	2402	-4.88	-58.59	≤-24.88	PASS
		High	2480	-5.35	-43.59	≤-25.35	PASS
		Low	Hop_2402	-5.13	-55.42	≤-25.13	PASS
		High	Hop_2480	-7.37	-58.13	≤-27.37	PASS
3DH5	Ant1	Low	2402	-5.99	-56.98	≤-25.99	PASS
		High	2480	-3.78	-57.68	≤-23.78	PASS
		Low	Hop_2402	-5.33	-58.38	≤-25.33	PASS
		High	Hop_2480	-4.09	-57.71	≤-24.09	PASS

Test Graphs

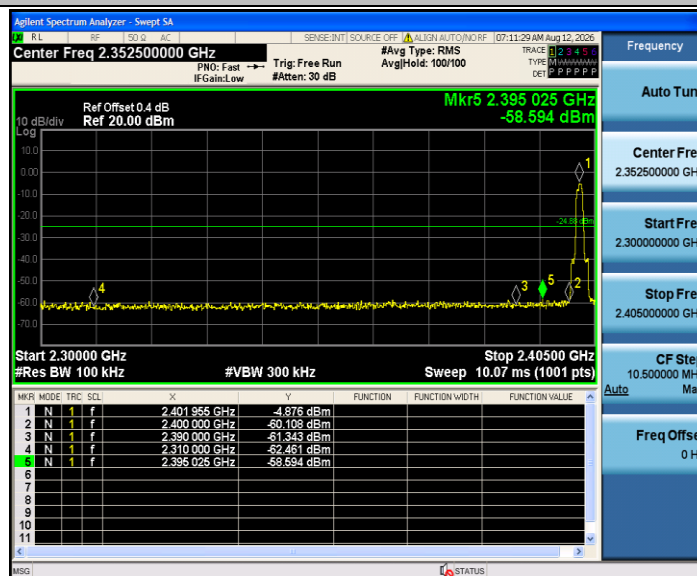




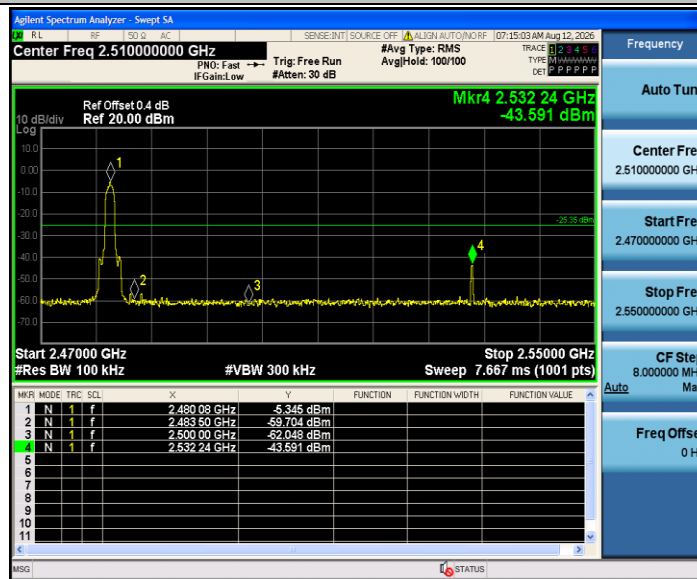
DH5_Ant1_High_Hop_2480



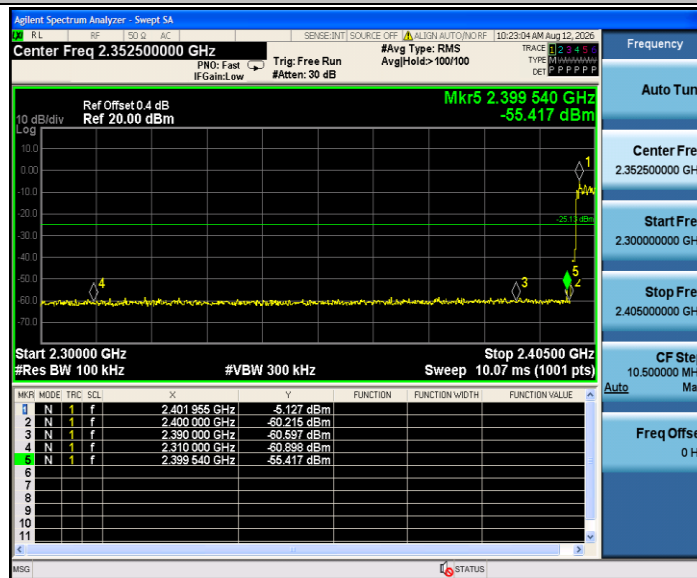
2DH5_Ant1_Low_2402



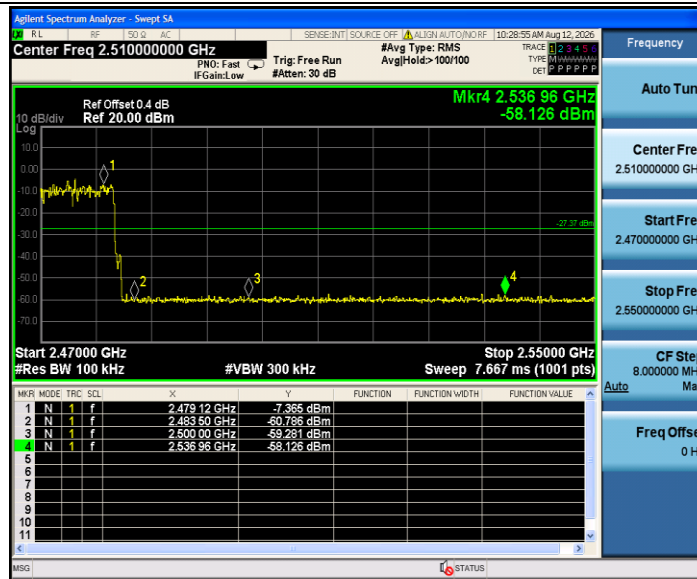
2DH5_Ant1_High_2480



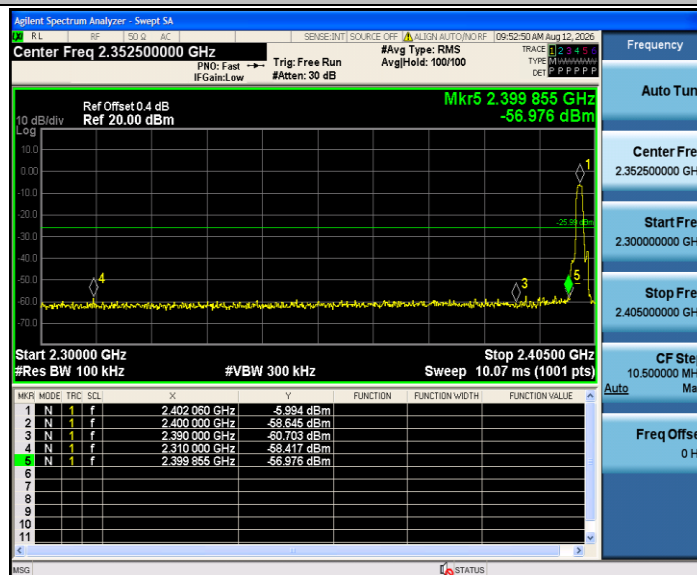
2DH5_Ant1_Low_Hop_2402



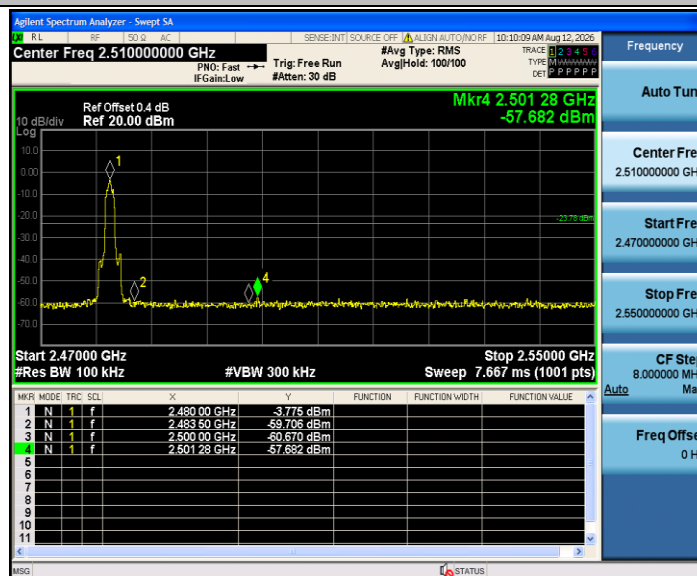
2DH5_Ant1_High_Hop_2480



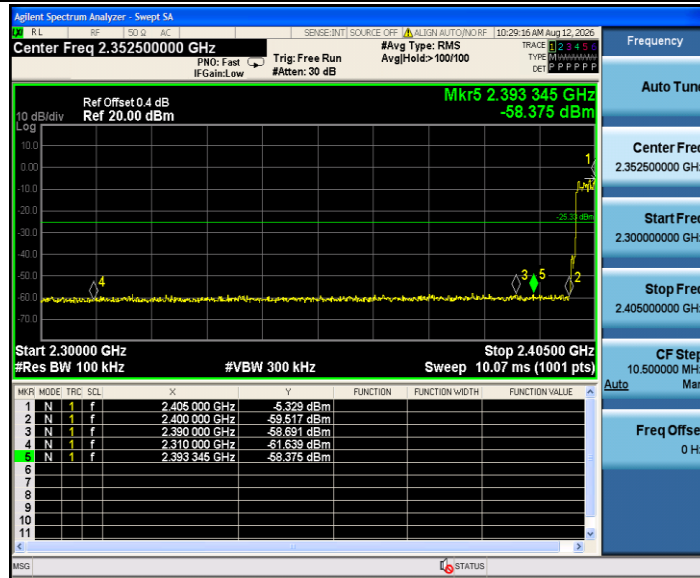
3DH5_Ant1_Low_2402



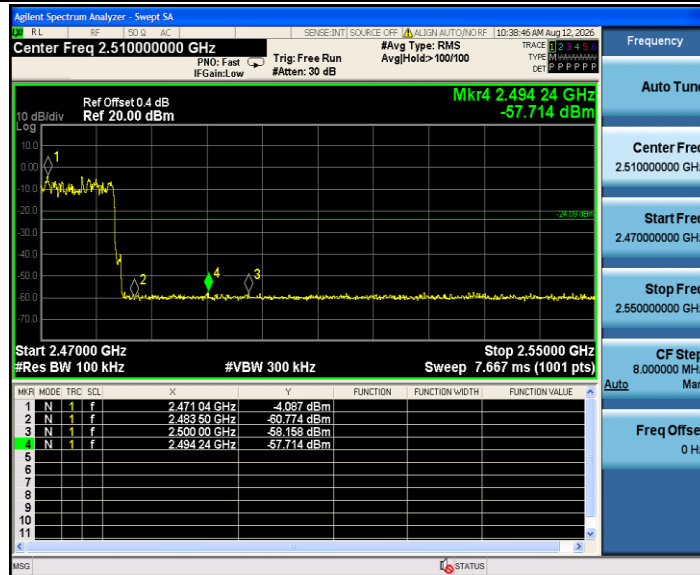
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

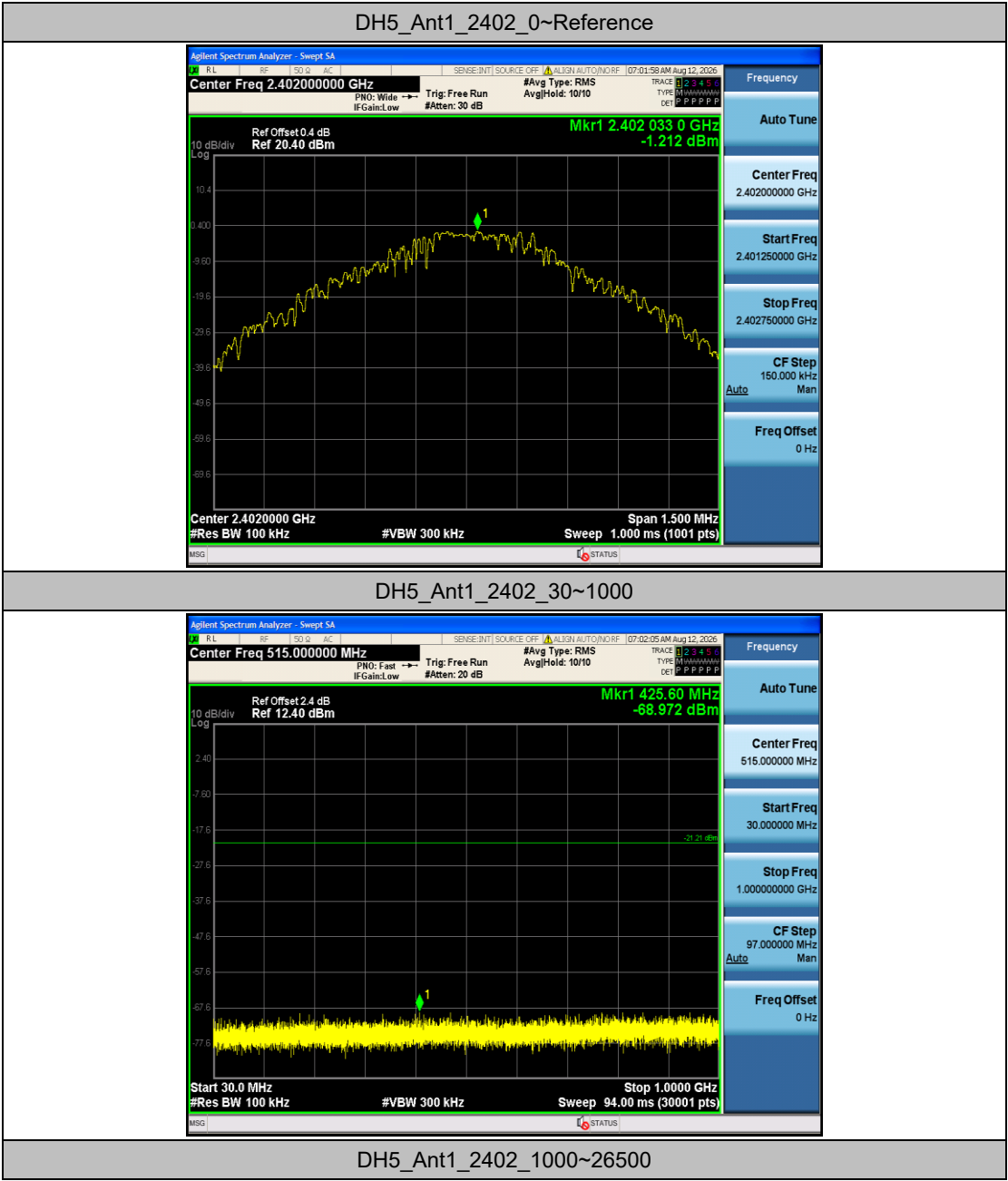


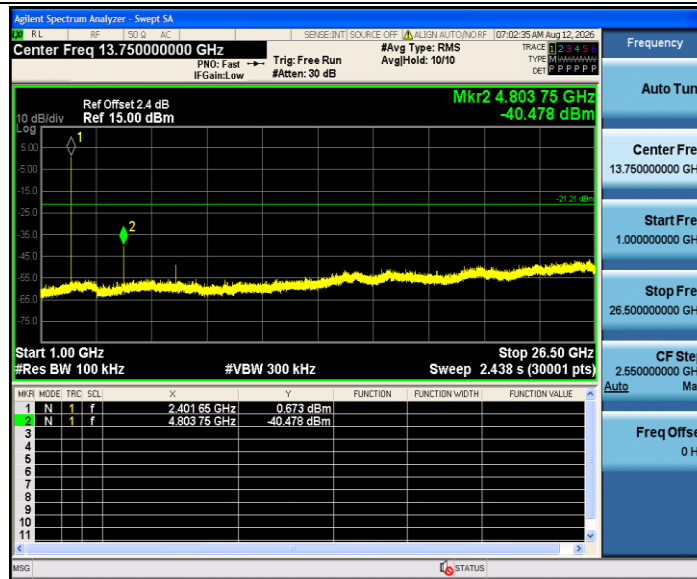
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-68.97	≤-21.21	PASS
			1000~26500	-1.21	-40.48	≤-21.21	PASS
		2441	Reference	-0.93	-0.93	---	PASS
			30~1000	-0.93	-68.4	≤-20.93	PASS
			1000~26500	-0.93	-43.39	≤-20.93	PASS
		2480	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-67.58	≤-21.66	PASS
			1000~26500	-1.66	-41.97	≤-21.66	PASS
2DH5	Ant1	2402	Reference	-5.51	-5.51	---	PASS
			30~1000	-5.51	-65.83	≤-25.51	PASS
			1000~26500	-5.51	-42.53	≤-25.51	PASS
		2441	Reference	-4.02	-4.02	---	PASS
			30~1000	-4.02	-68.48	≤-24.02	PASS
			1000~26500	-4.02	-45.81	≤-24.02	PASS
		2480	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-49.38	≤-25.28	PASS
			1000~26500	-5.28	-46.1	≤-25.28	PASS
3DH5	Ant1	2402	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-69.04	≤-24.63	PASS
			1000~26500	-4.63	-45.75	≤-24.63	PASS
		2441	Reference	-4.11	-4.11	---	PASS
			30~1000	-4.11	-68.67	≤-24.11	PASS
			1000~26500	-4.11	-46.19	≤-24.11	PASS
		2480	Reference	-6.89	-6.89	---	PASS
			30~1000	-6.89	-68.2	≤-26.89	PASS
			1000~26500	-6.89	-46.38	≤-26.89	PASS

Test Graphs

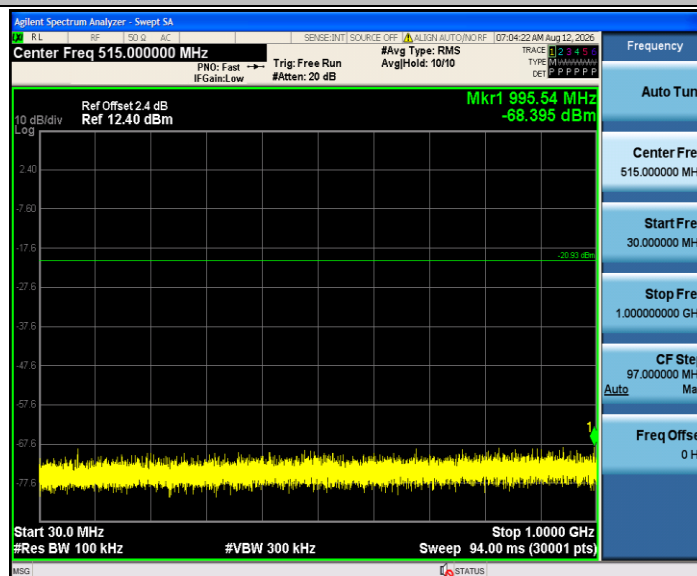




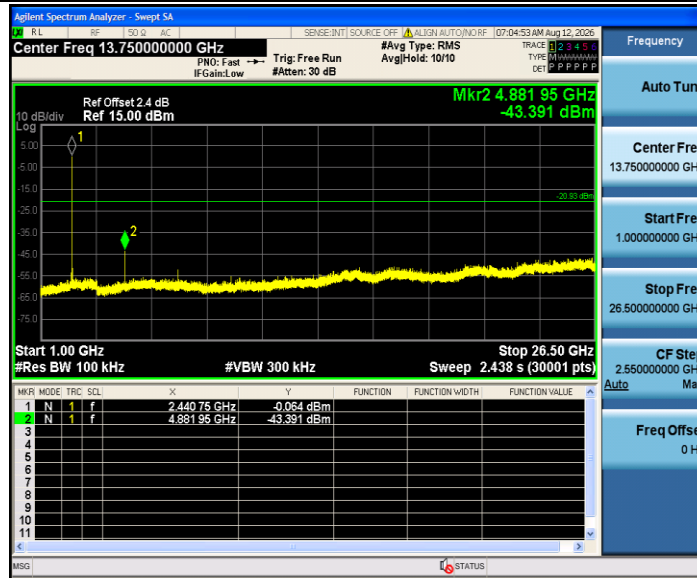
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



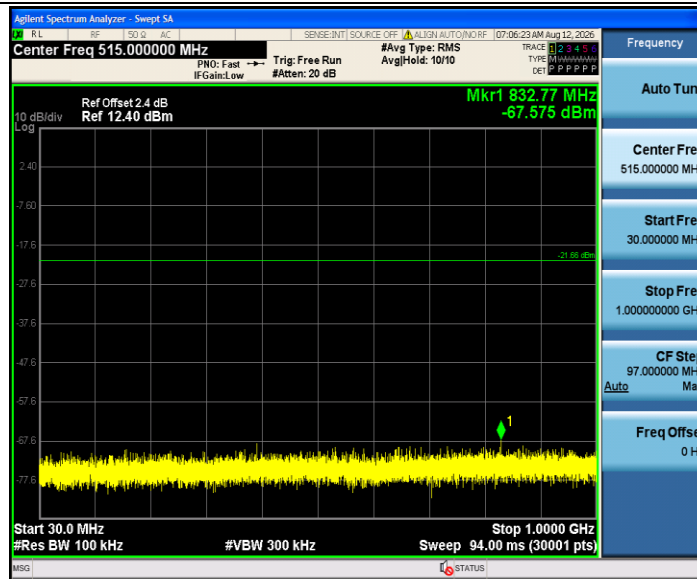
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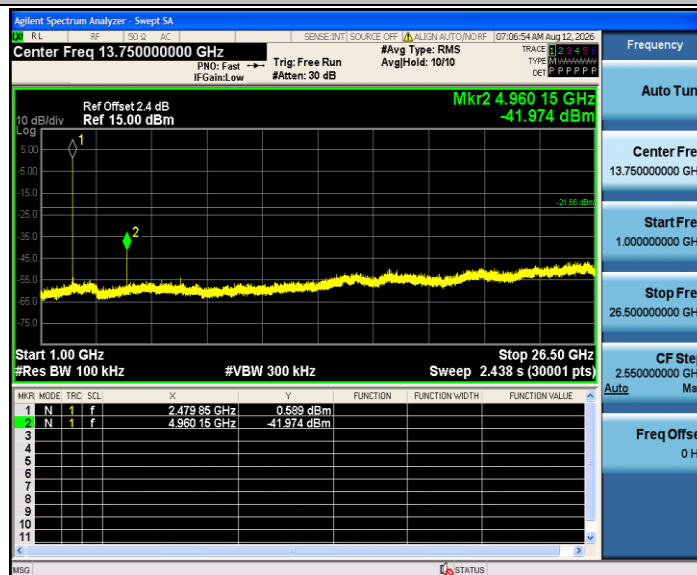
DH5_Ant1_2480_0~Reference



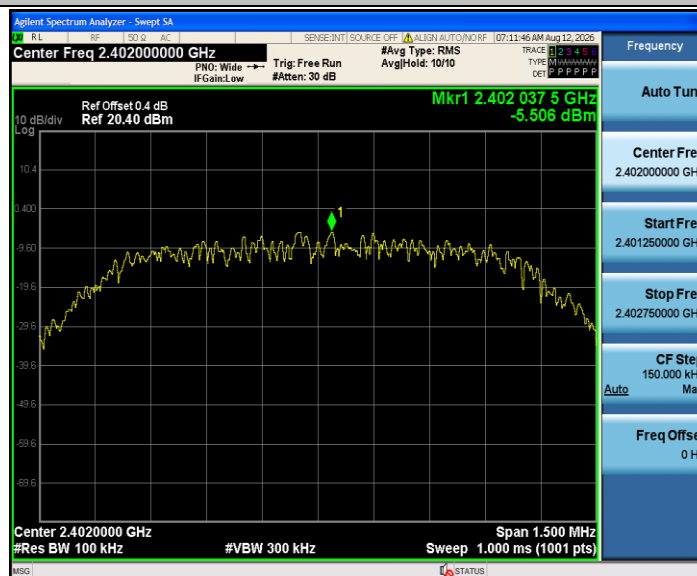
DH5_Ant1_2480_30~1000



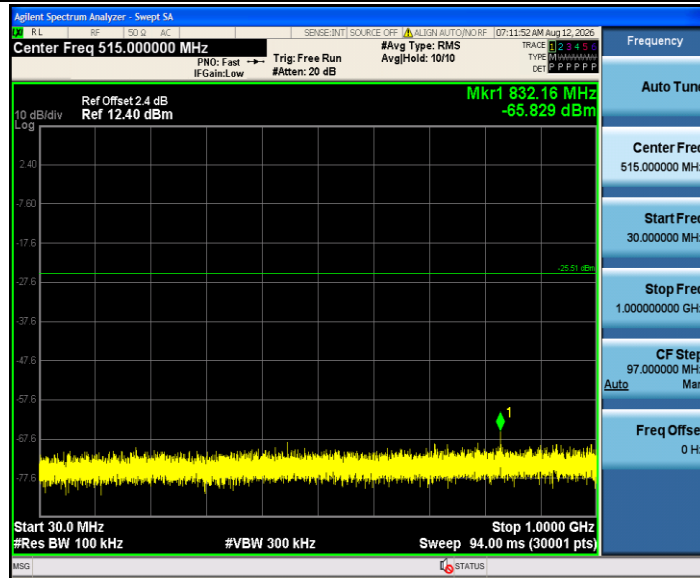
DH5_Ant1_2480_1000~26500



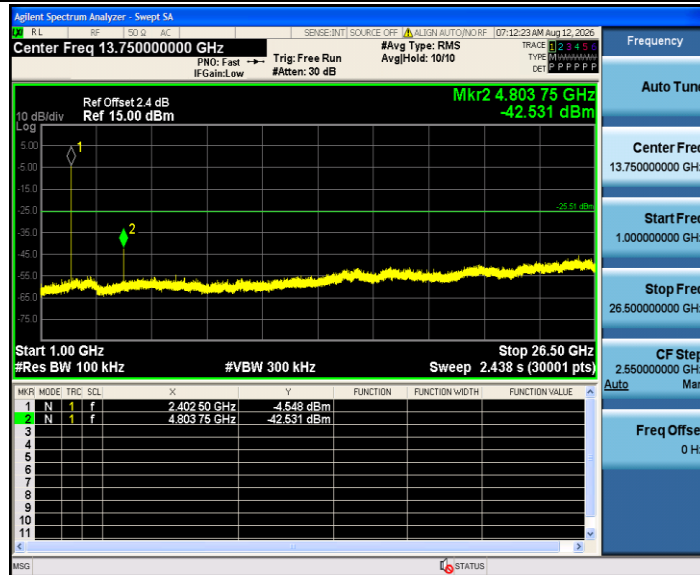
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference