

FCC Appendix RF Test Data for BT

FCC ID : 2AOQF-FS-T929

Company : DongGuan Huahong Electrical Appliances Co.,Ltd

EUT : Professional Party Speaker

Model Number : FS-T929

Report No. : CTA26090202201

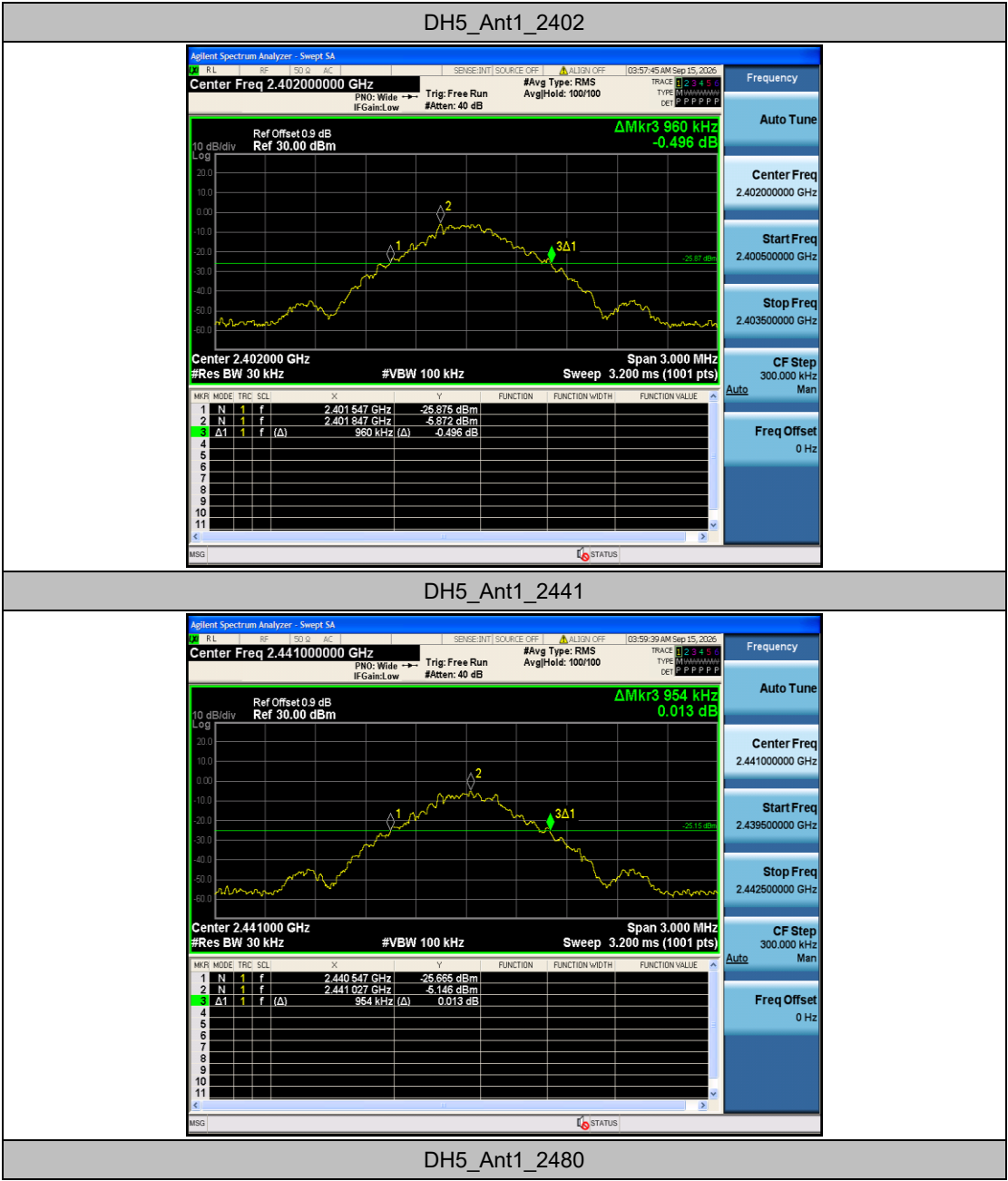
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.547	2402.507	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.954	2479.544	2480.498	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.287	2440.379	2441.666	---	---
		2480	1.323	2479.346	2480.669	---	---
3DH5	Ant1	2402	1.284	2401.370	2402.654	---	---
		2441	1.323	2440.358	2441.681	---	---
		2480	1.320	2479.355	2480.675	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

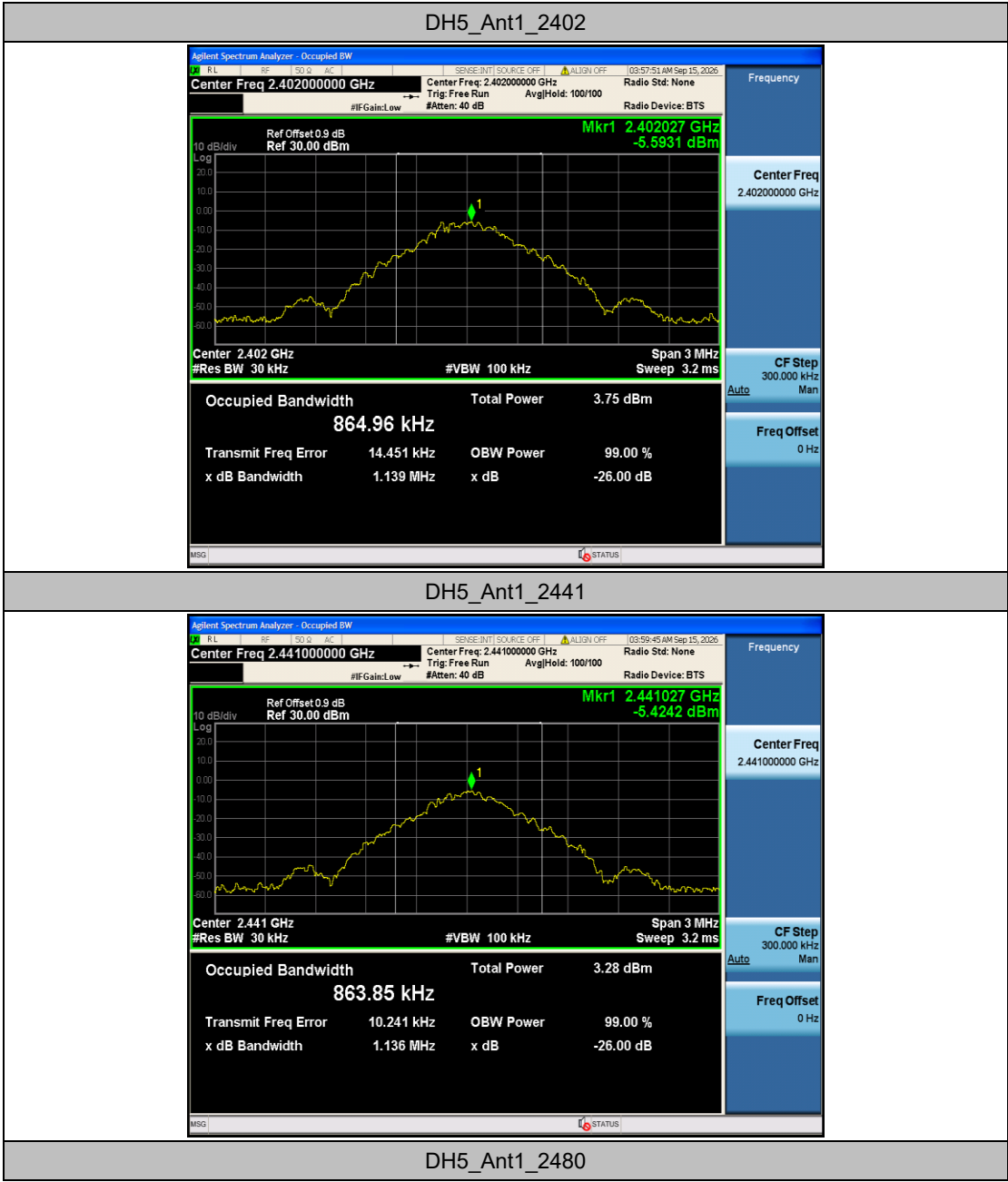


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86496	2401.5820	2402.4469	---	---
		2441	0.86385	2440.5783	2441.4422	---	---
		2480	0.85985	2479.5812	2480.4411	---	---
2DH5	Ant1	2402	1.1880	2401.4163	2402.6043	---	---
		2441	1.1947	2440.4128	2441.6075	---	---
		2480	1.1869	2479.4176	2480.6045	---	---
3DH5	Ant1	2402	1.1742	2401.4276	2402.6018	---	---
		2441	1.1921	2440.4171	2441.6092	---	---
		2480	1.1765	2479.4287	2480.6052	---	---

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

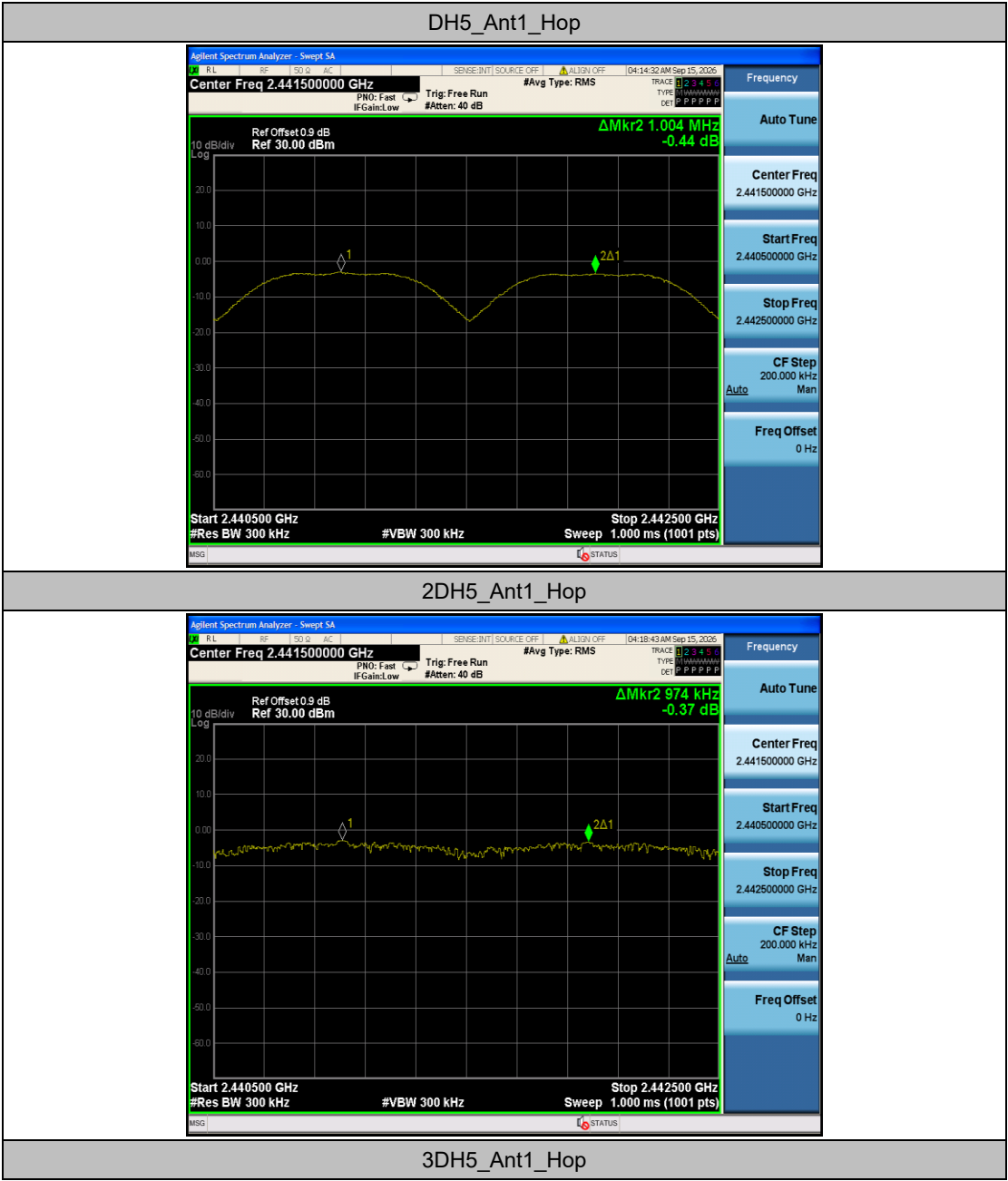
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-2.69	≤20.97	PASS
		2441	-2.87	≤20.97	PASS
		2480	-3.24	≤20.97	PASS
2DH5	Ant1	2402	-0.15	≤20.97	PASS
		2441	-0.32	≤20.97	PASS
		2480	-0.70	≤20.97	PASS
3DH5	Ant1	2402	0.26	≤20.97	PASS
		2441	0.07	≤20.97	PASS
		2480	-0.26	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.960	PASS
2DH5	Ant1	Hop	0.974	≥ 0.882	PASS
3DH5	Ant1	Hop	1.12	≥ 0.882	PASS

Test Graphs



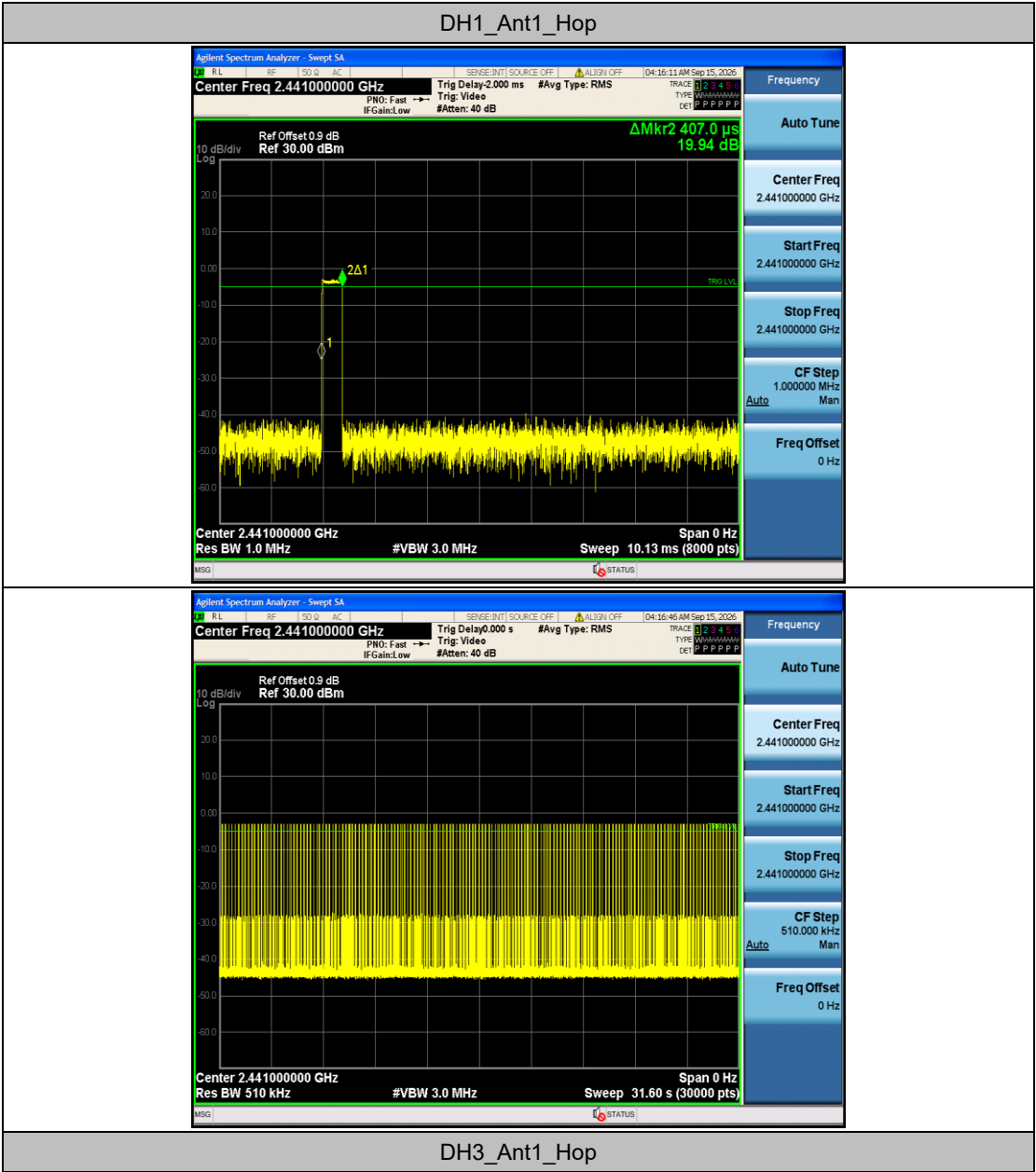


Appendix E: Time of occupancy

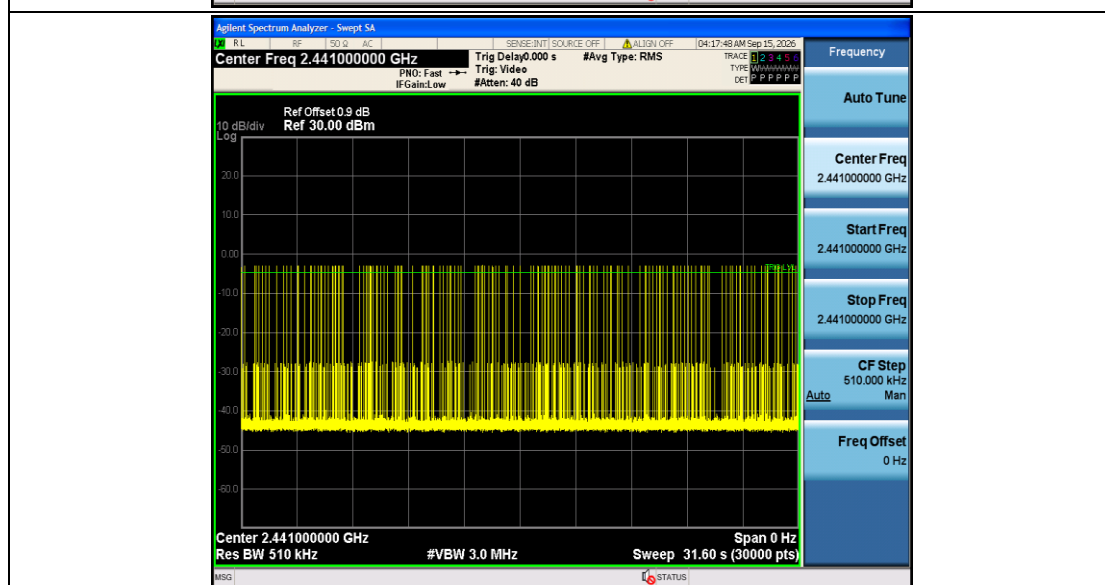
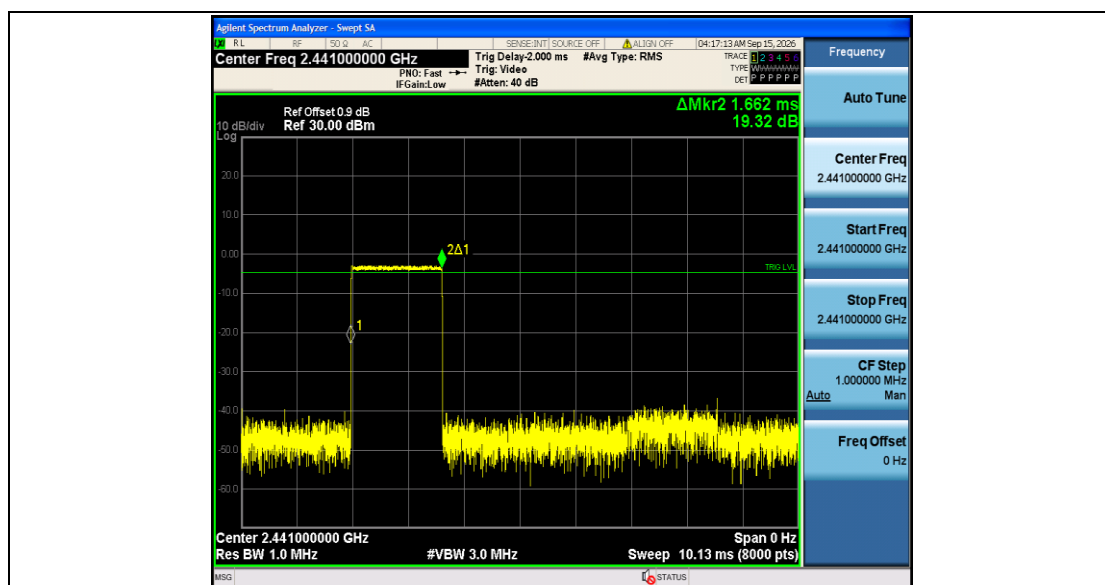
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	313	0.127	≤0.4	PASS
DH3	Ant1	Hop	1.662	150	0.249	≤0.4	PASS
DH5	Ant1	Hop	2.910	111	0.323	≤0.4	PASS
2DH1	Ant1	Hop	2.916	103	0.3	≤0.4	PASS
2DH3	Ant1	Hop	1.668	159	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.916	113	0.33	≤0.4	PASS
3DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	169	0.282	≤0.4	PASS
3DH5	Ant1	Hop	2.917	113	0.33	≤0.4	PASS

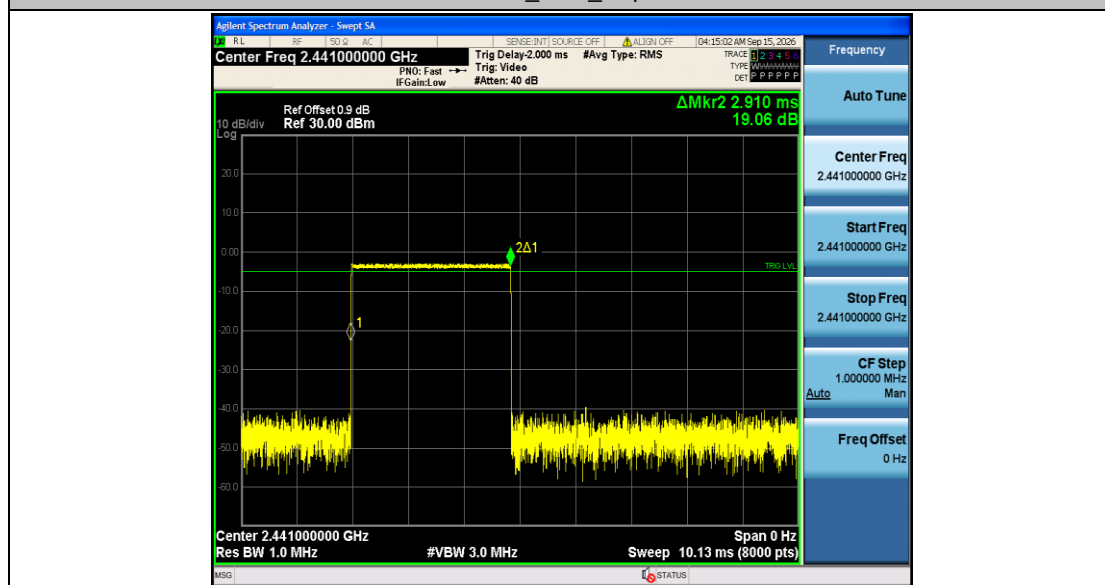
Test Graphs

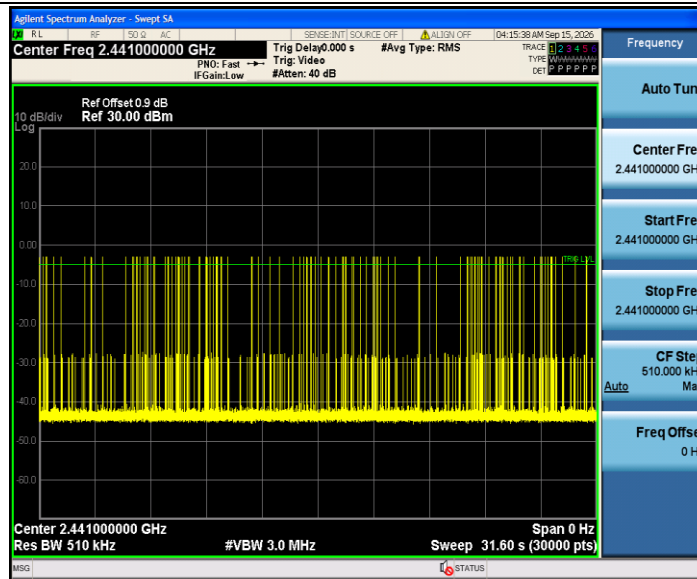


DH3_Ant1_Hop

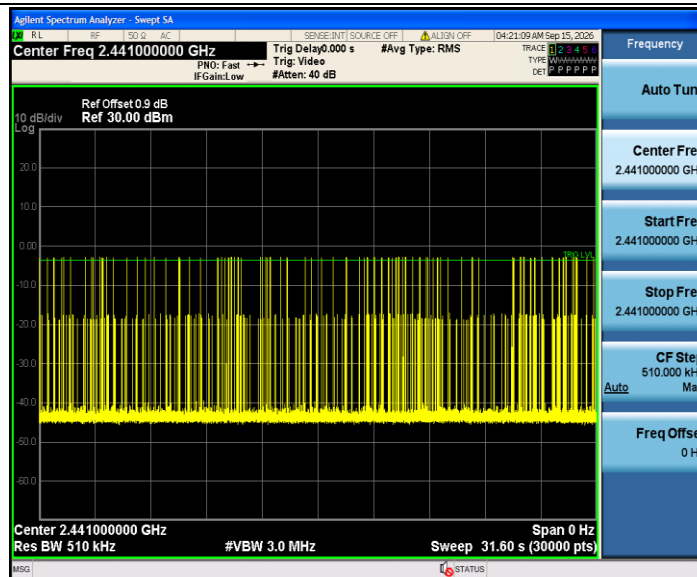
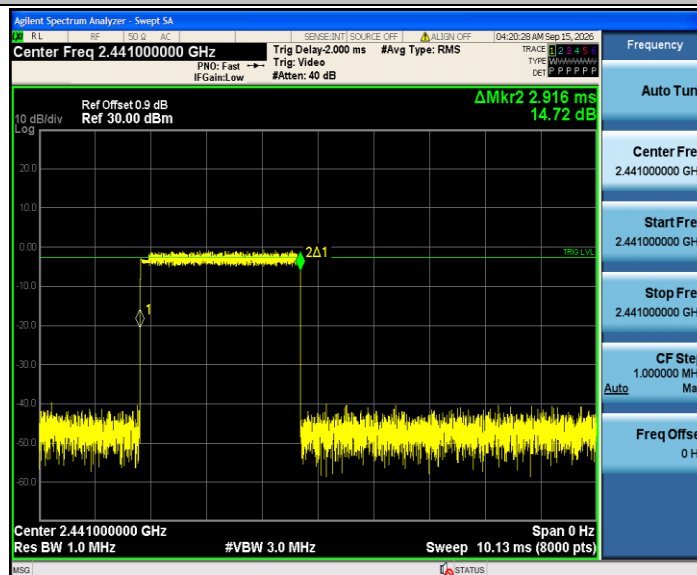


DH5_Ant1_Hop

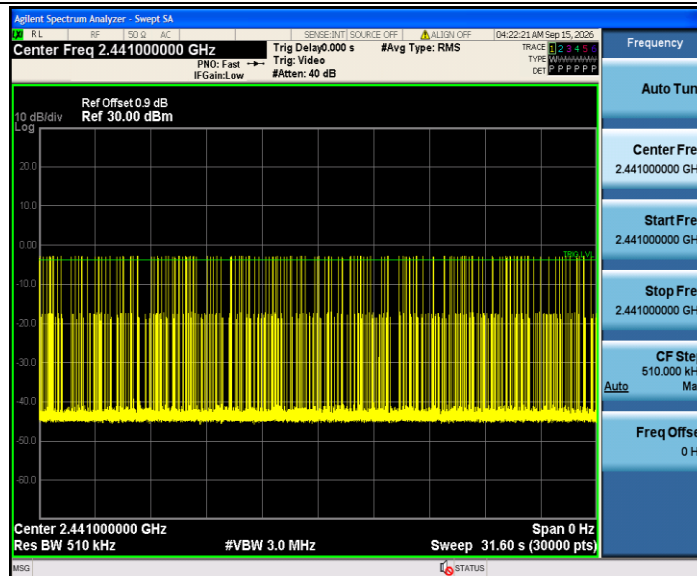
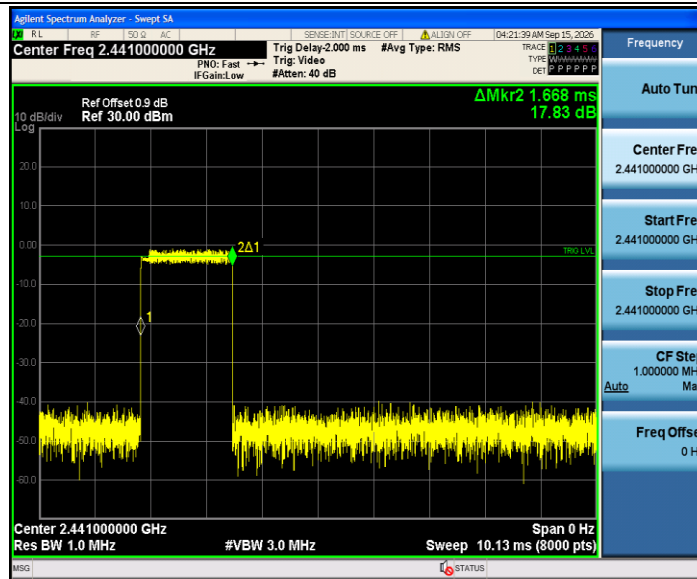




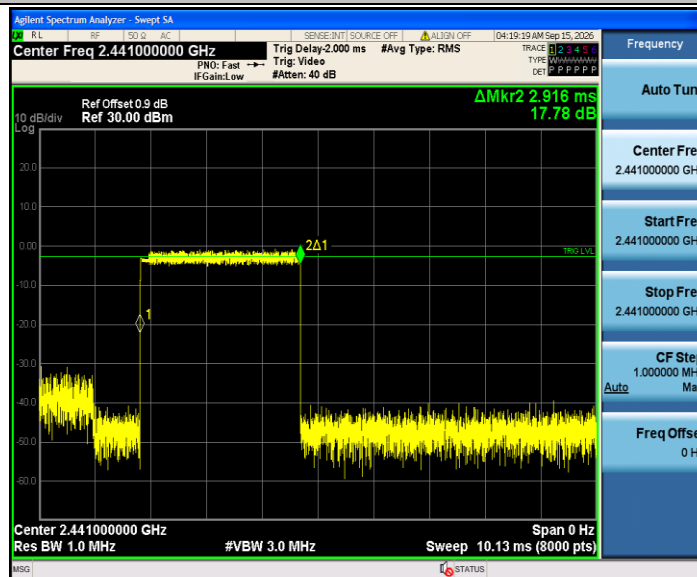
2DH1_Ant1_Hop

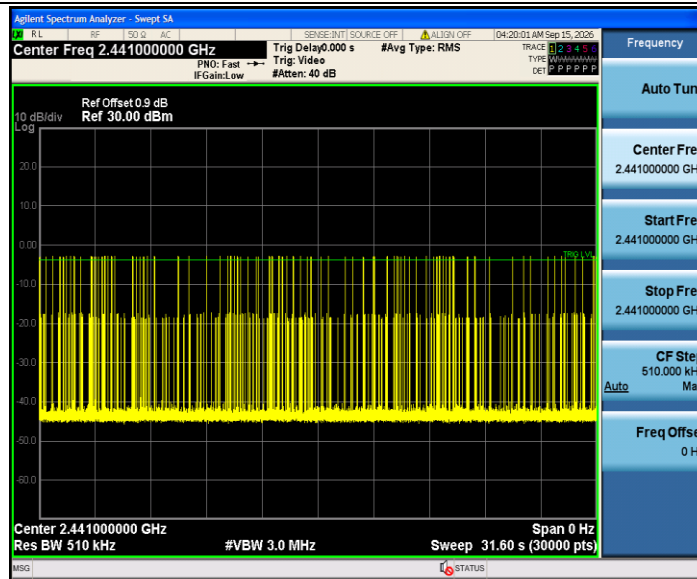


2DH3_Ant1_Hop

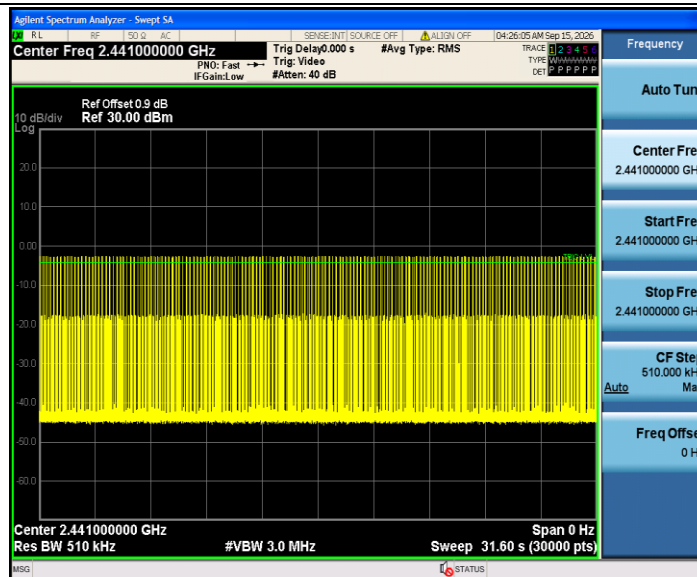
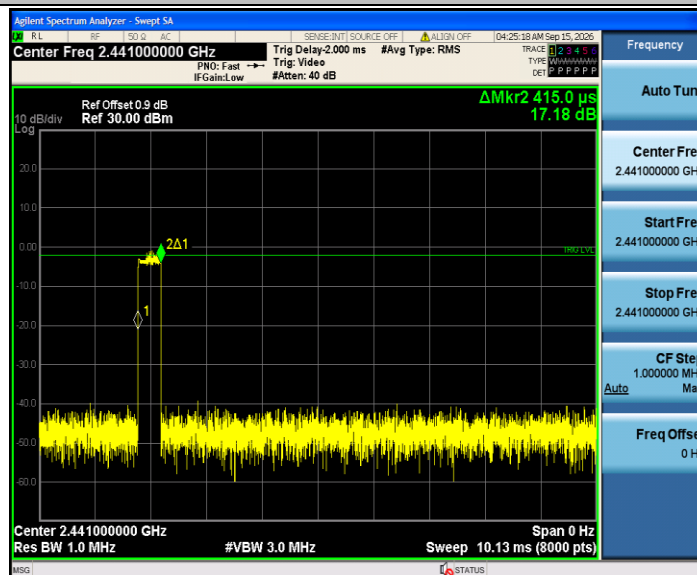


2DH5_Ant1_Hop

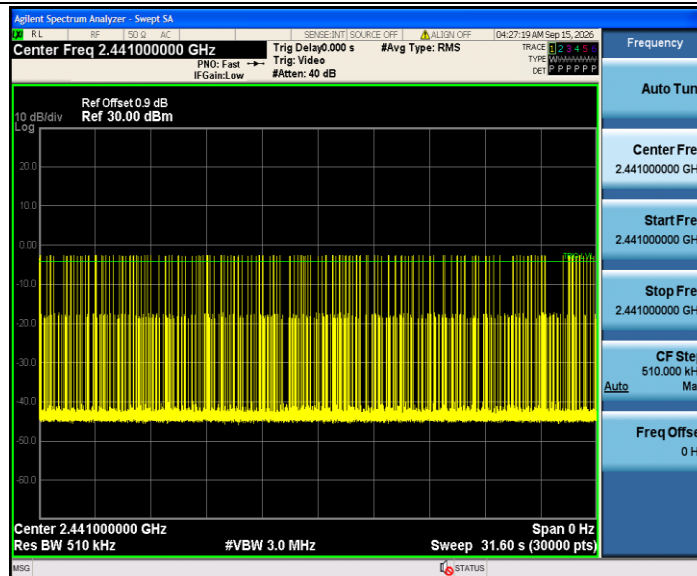
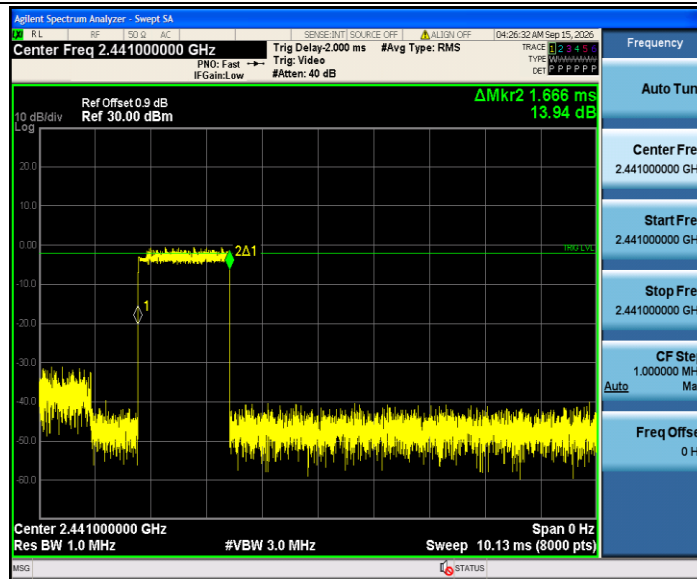




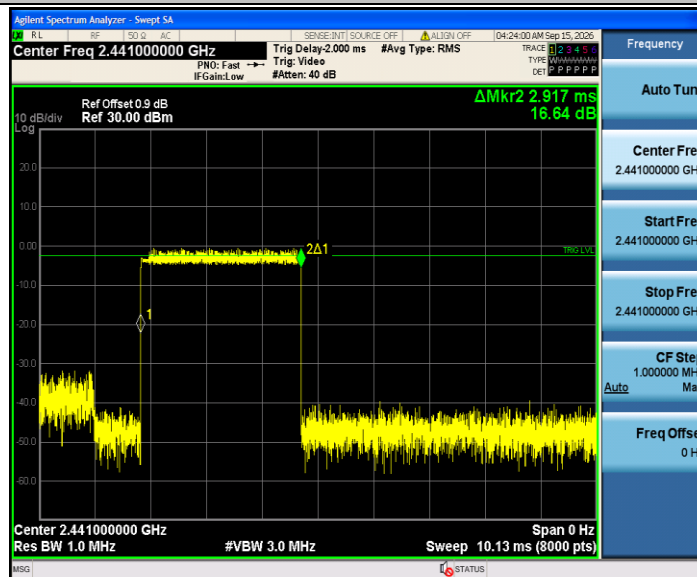
3DH1_Ant1_Hop

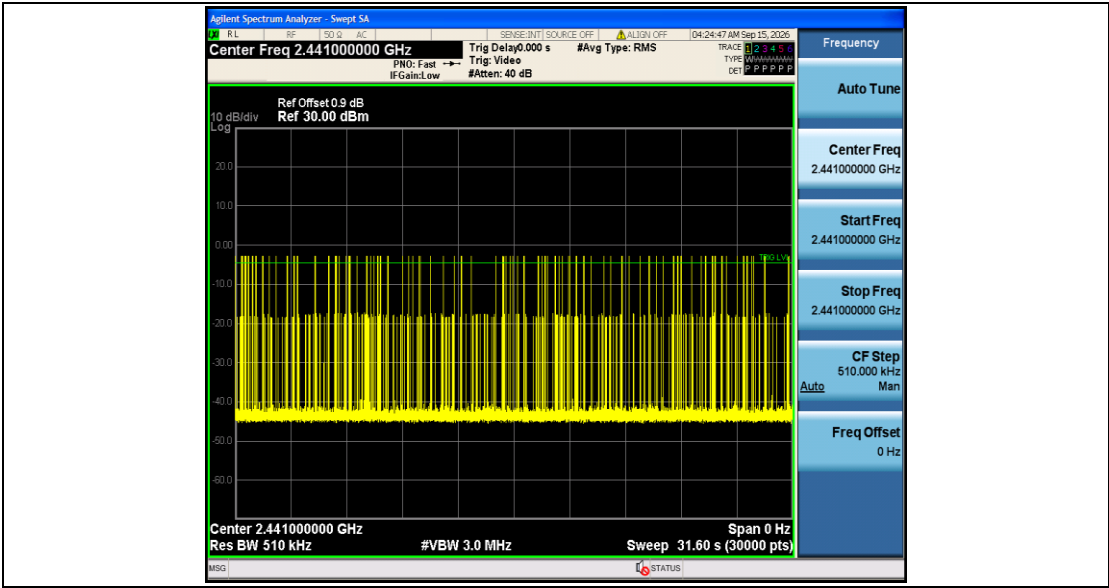


3DH3_Ant1_Hop



3DH5_Ant1_Hop



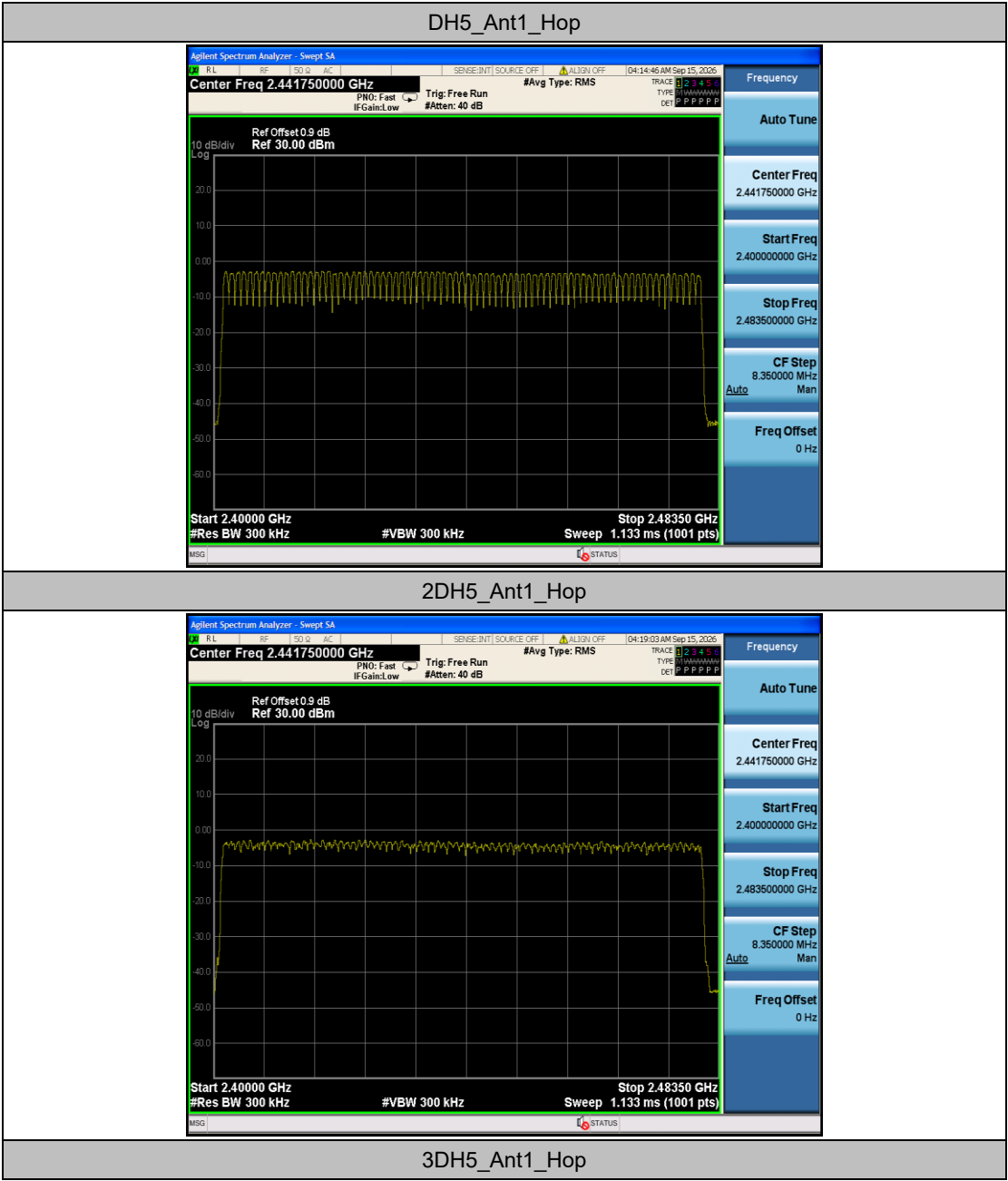


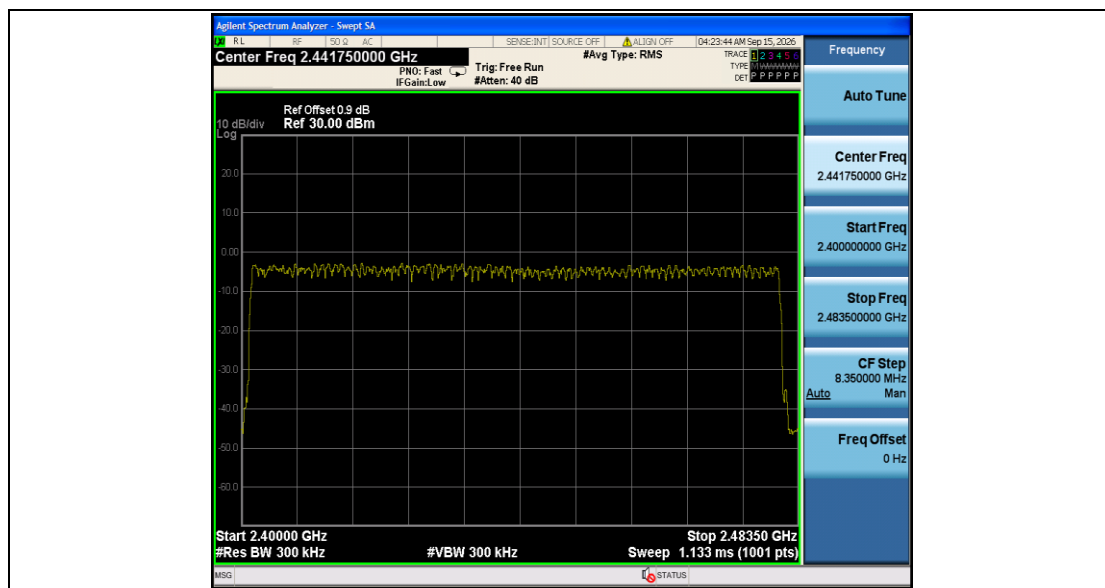
Appendix F: Number of hopping channels

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



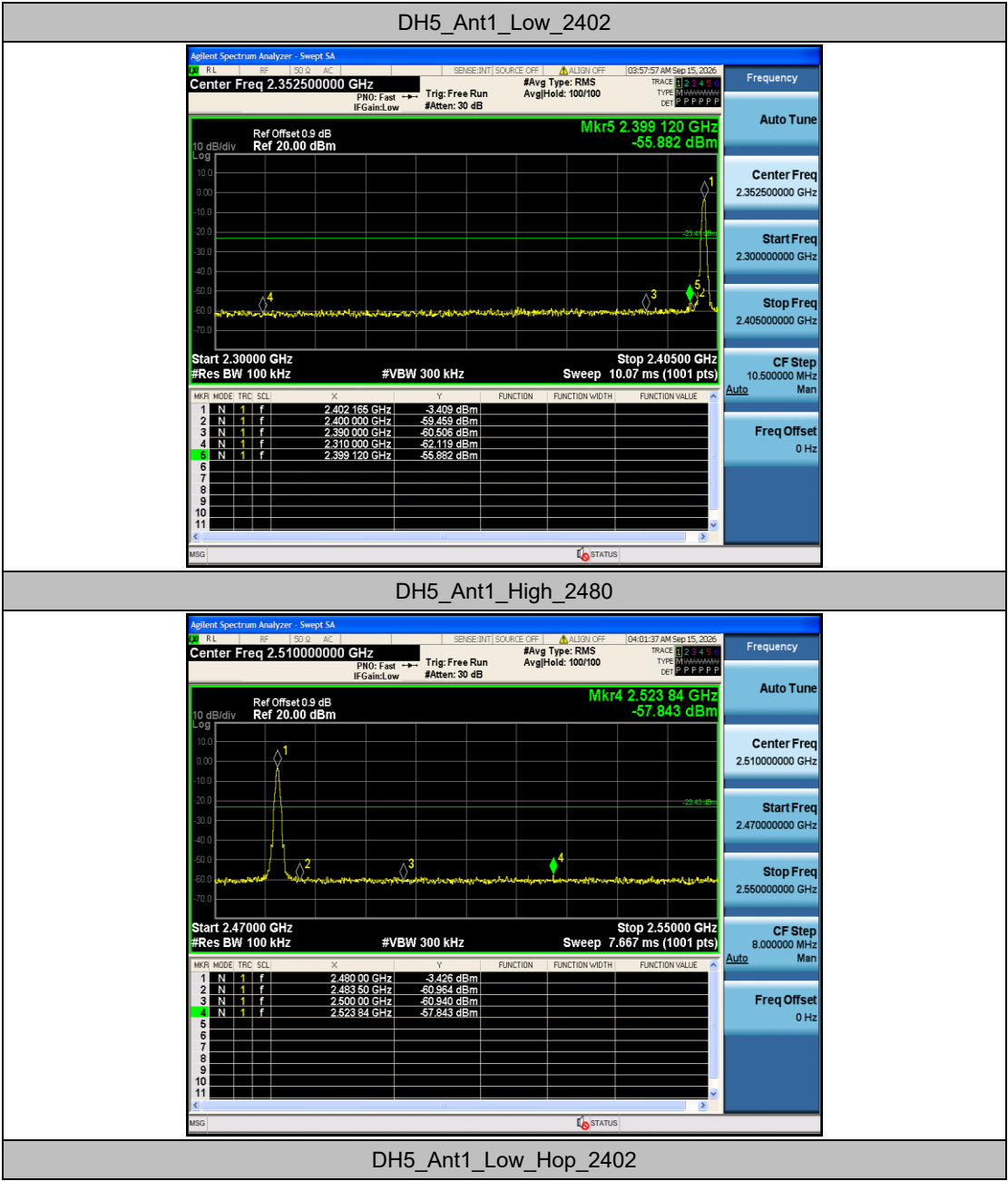


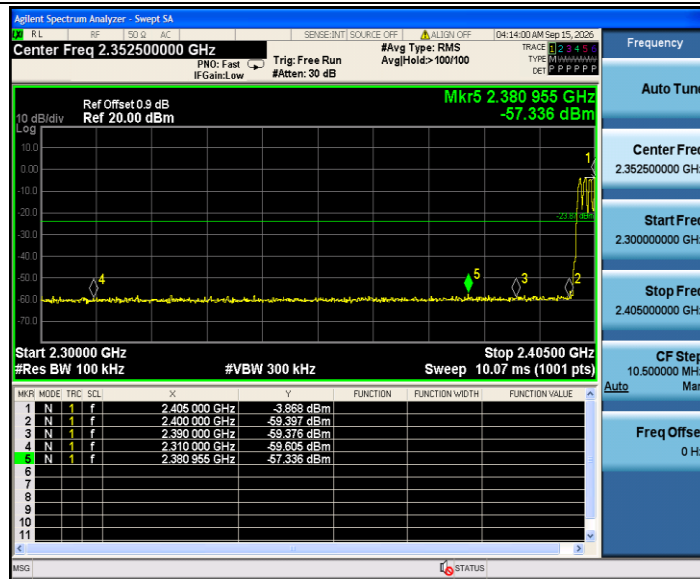
Appendix G: Band edge measurements

Test Result

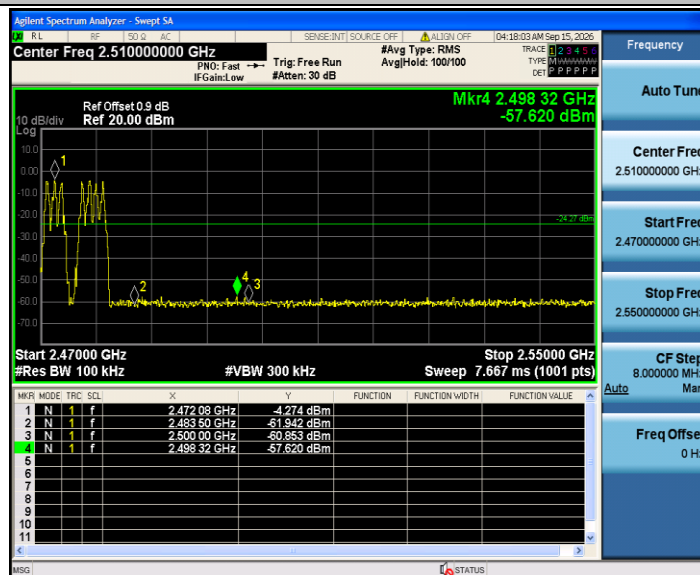
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.41	-55.88	≤-23.41	PASS
		High	2480	-3.43	-57.84	≤-23.43	PASS
		Low	Hop_2402	-3.87	-57.34	≤-23.87	PASS
		High	Hop_2480	-4.27	-57.62	≤-24.27	PASS
2DH5	Ant1	Low	2402	-4.69	-57.77	≤-24.69	PASS
		High	2480	-3.33	-57.04	≤-23.33	PASS
		Low	Hop_2402	-6.90	-58.29	≤-26.9	PASS
		High	Hop_2480	-5.14	-55.79	≤-25.14	PASS
3DH5	Ant1	Low	2402	-4.48	-57.23	≤-24.48	PASS
		High	2480	-3.34	-54.84	≤-23.34	PASS
		Low	Hop_2402	-4.46	-57.33	≤-24.46	PASS
		High	Hop_2480	-4.00	-56.4	≤-24	PASS

Test Graphs

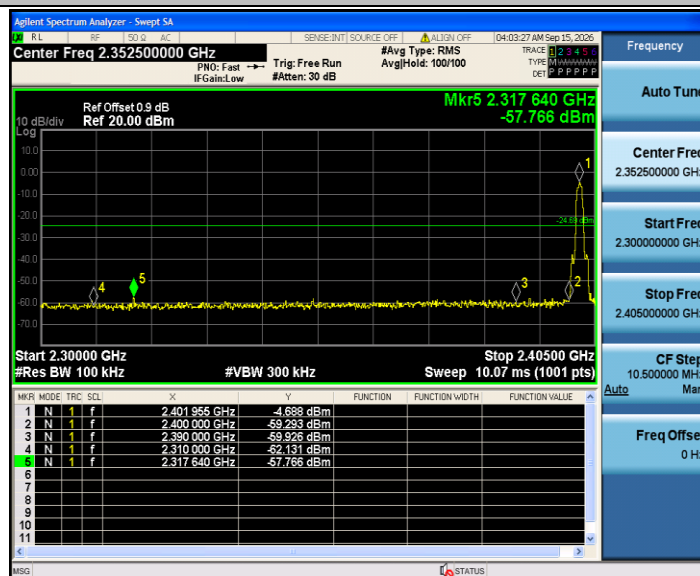




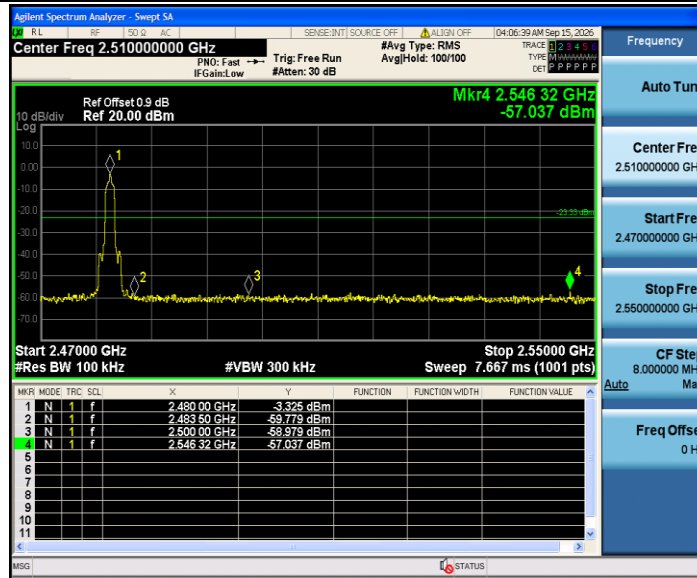
DH5_Ant1_High_Hop_2480



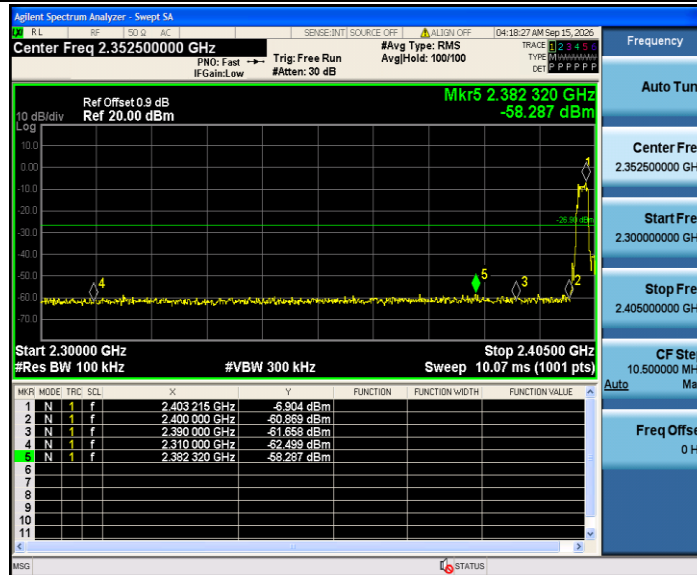
2DH5_Ant1_Low_2402



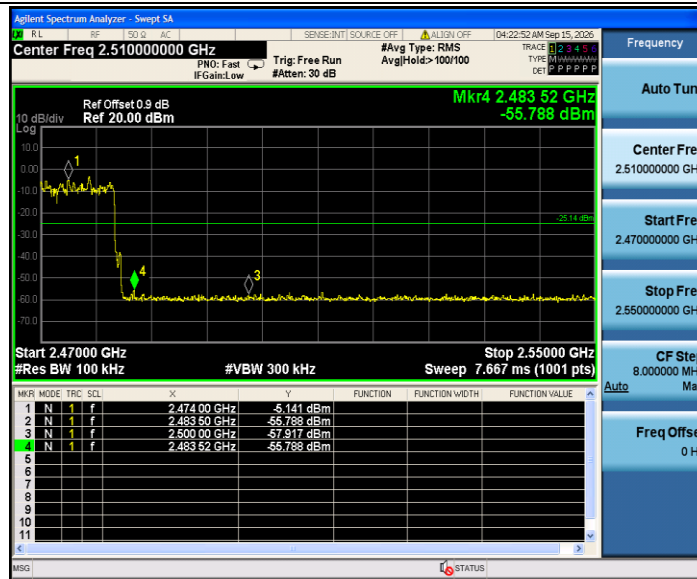
2DH5_Ant1_High_2480



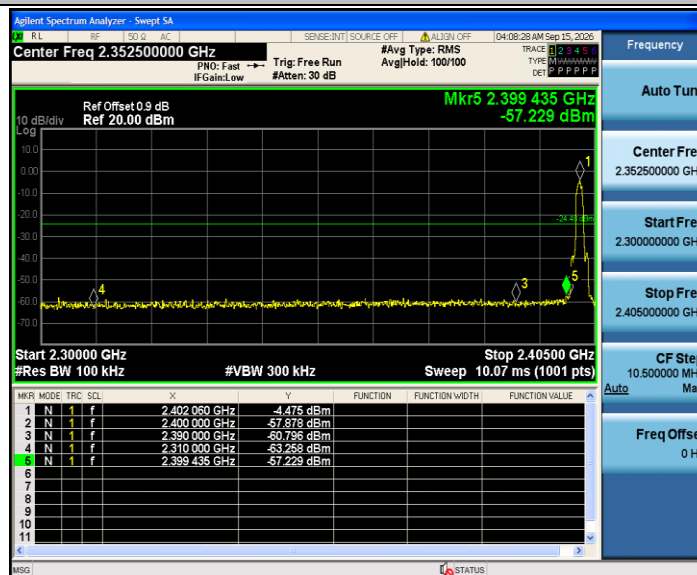
2DH5_Ant1_Low_Hop_2402



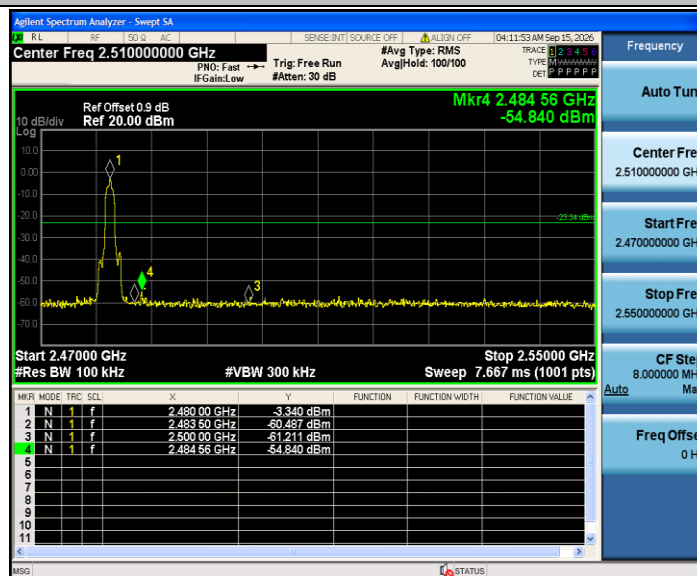
2DH5_Ant1_High_Hop_2480



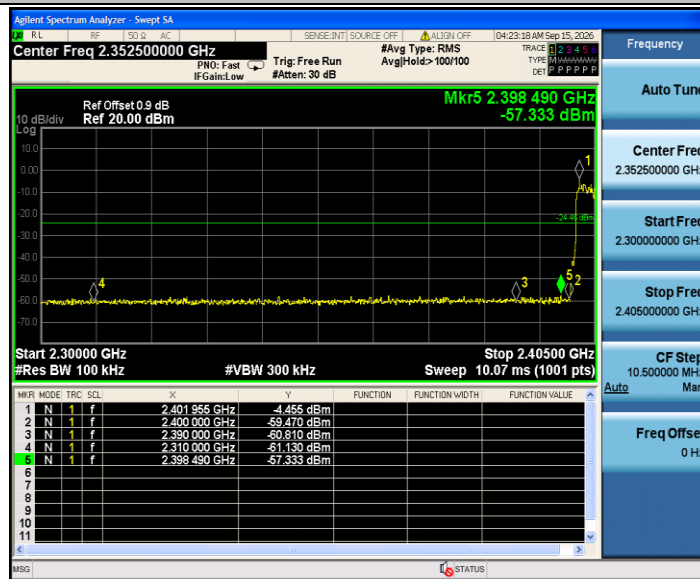
3DH5_Ant1_Low_2402



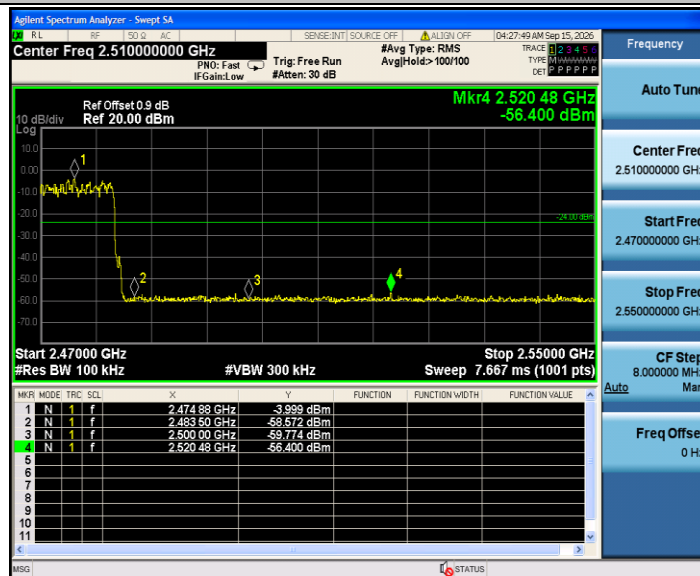
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

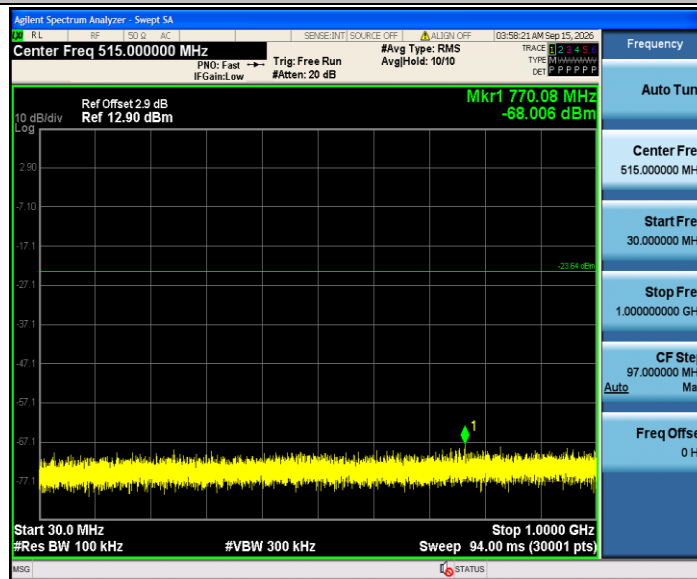
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.64	-3.64	---	PASS
			30~1000	-3.64	-68.01	≤-23.64	PASS
			1000~26500	-3.64	-45.46	≤-23.64	PASS
		2441	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-67.76	≤-23.96	PASS
			1000~26500	-3.96	-46.53	≤-23.96	PASS
		2480	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-67.35	≤-24.06	PASS
			1000~26500	-4.06	-45.95	≤-24.06	PASS
2DH5	Ant1	2402	Reference	-4.33	-4.33	---	PASS
			30~1000	-4.33	-68.5	≤-24.33	PASS
			1000~26500	-4.33	-46.75	≤-24.33	PASS
		2441	Reference	-4.73	-4.73	---	PASS
			30~1000	-4.73	-68.02	≤-24.73	PASS
			1000~26500	-4.73	-46.12	≤-24.73	PASS
		2480	Reference	-4.60	-4.60	---	PASS
			30~1000	-4.60	-67.69	≤-24.6	PASS
			1000~26500	-4.60	-46.16	≤-24.6	PASS
3DH5	Ant1	2402	Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-67.2	≤-25.6	PASS
			1000~26500	-5.60	-46.36	≤-25.6	PASS
		2441	Reference	-5.72	-5.72	---	PASS
			30~1000	-5.72	-68.47	≤-25.72	PASS
			1000~26500	-5.72	-45.82	≤-25.72	PASS
		2480	Reference	-6.21	-6.21	---	PASS
			30~1000	-6.21	-68.7	≤-26.21	PASS
			1000~26500	-6.21	-46.38	≤-26.21	PASS

Test Graphs

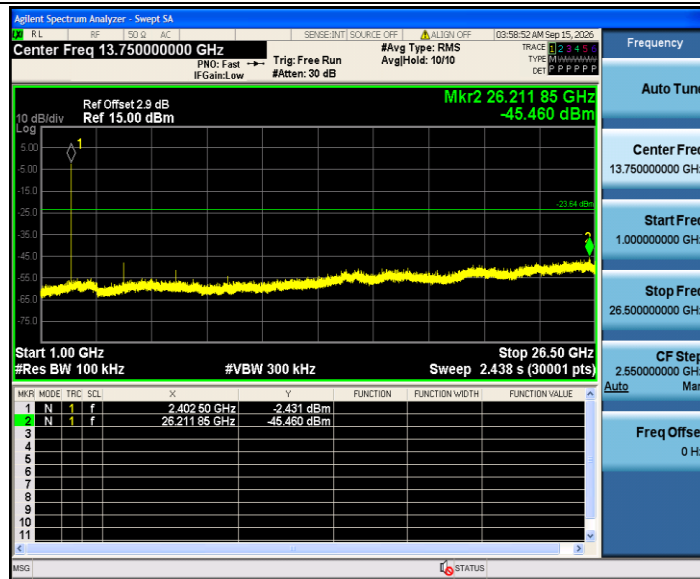
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



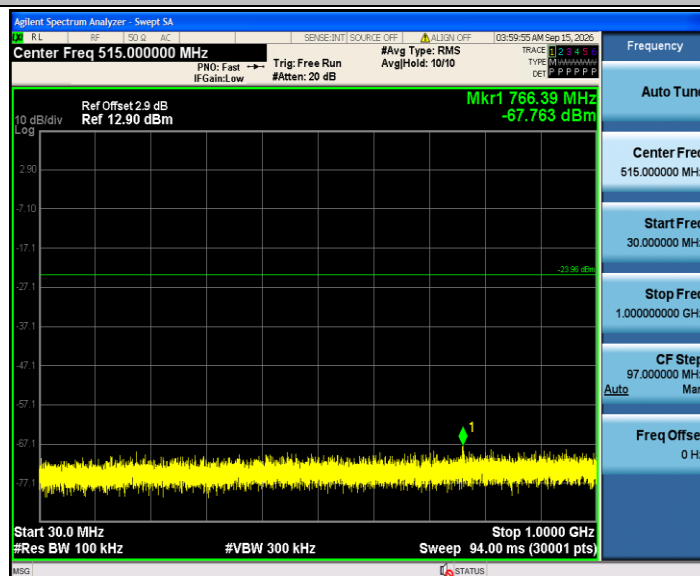
DH5_Ant1_2402_1000~26500



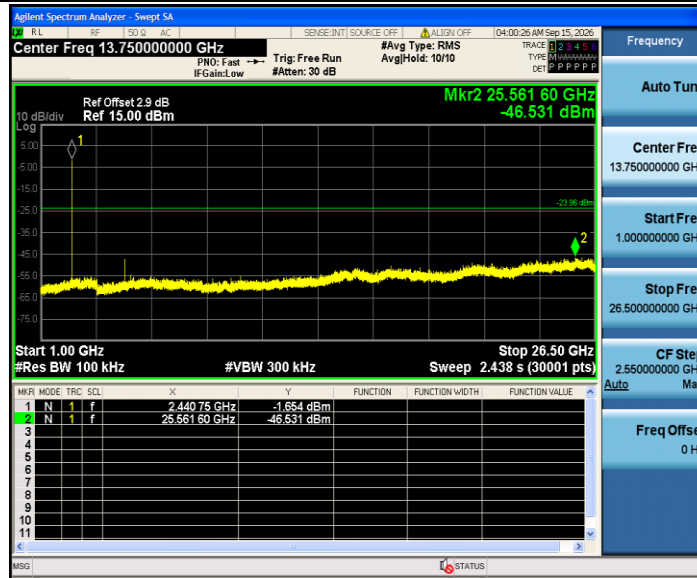
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



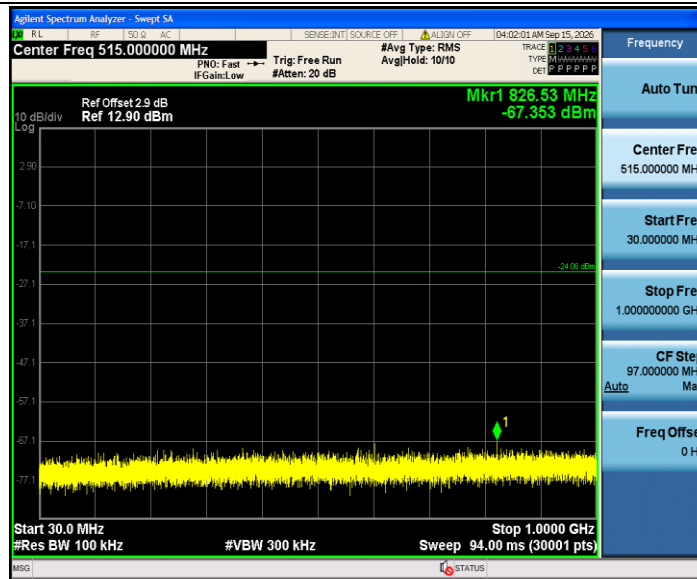
DH5_Ant1_2441_1000~26500



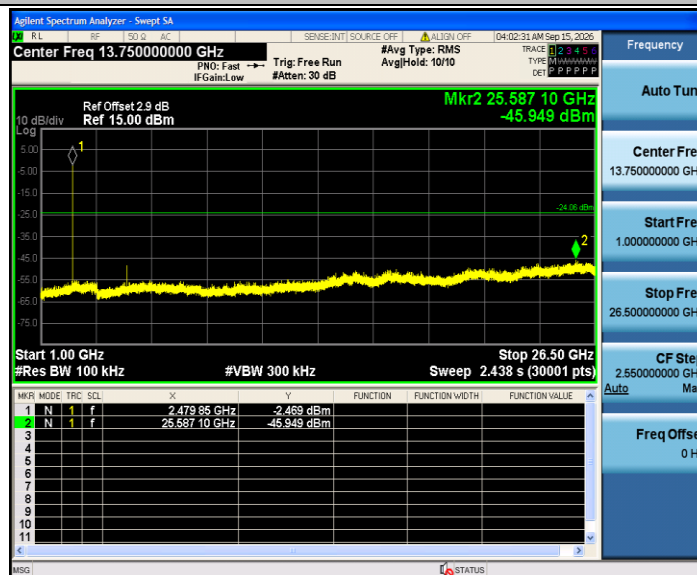
DH5_Ant1_2480_0~Reference



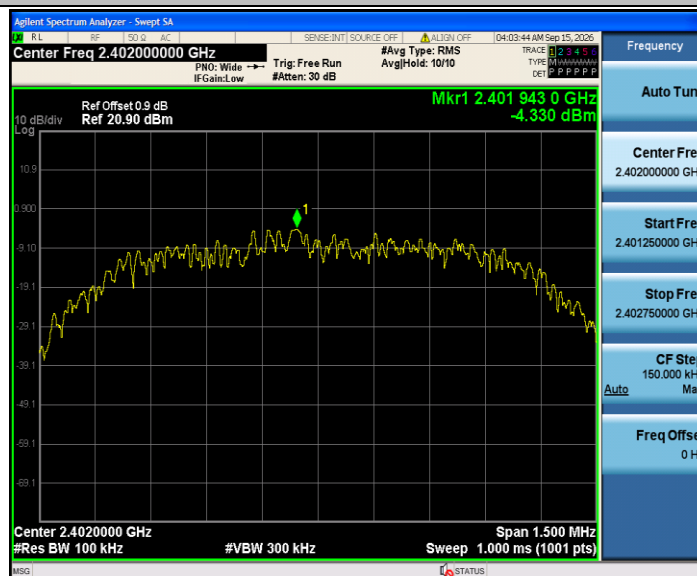
DH5_Ant1_2480_30~1000



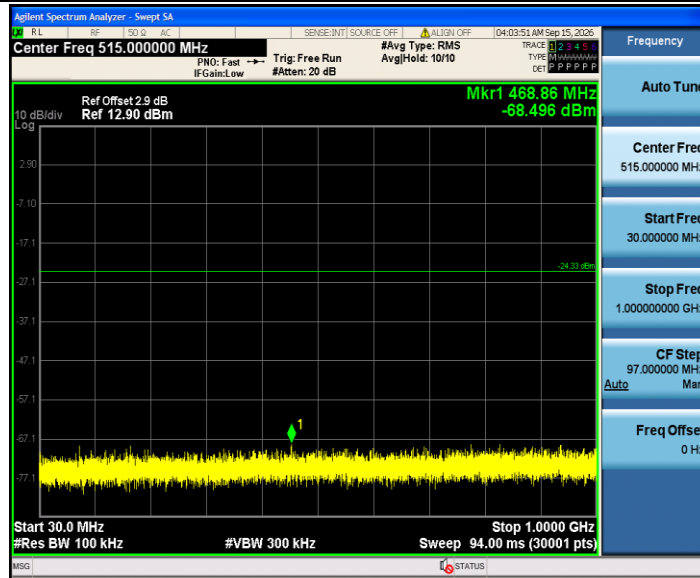
DH5_Ant1_2480_1000~26500



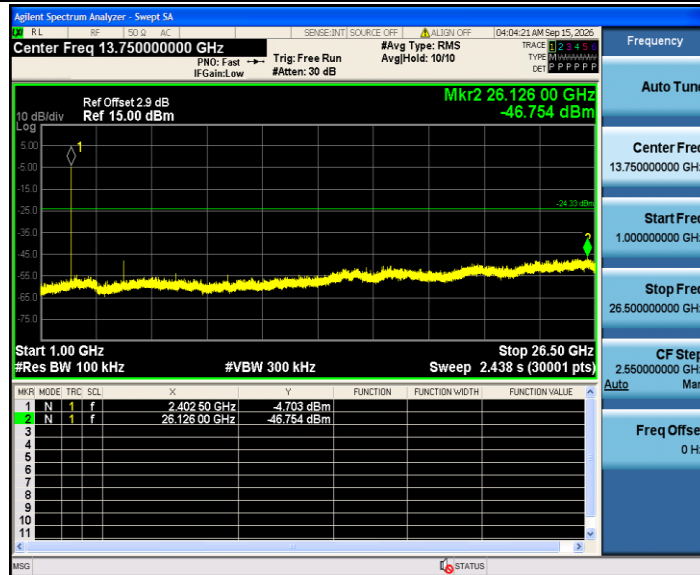
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference