

Appendix RF Test Data for BT

FCC ID : 2BLBG-BH-R55-02

Company : Fangchenggangshengdongjiankangkejiyouxiangongsi

EUT : Hearing Aids

Model Number : BH-R55-02

Report No. : CTA25080100501

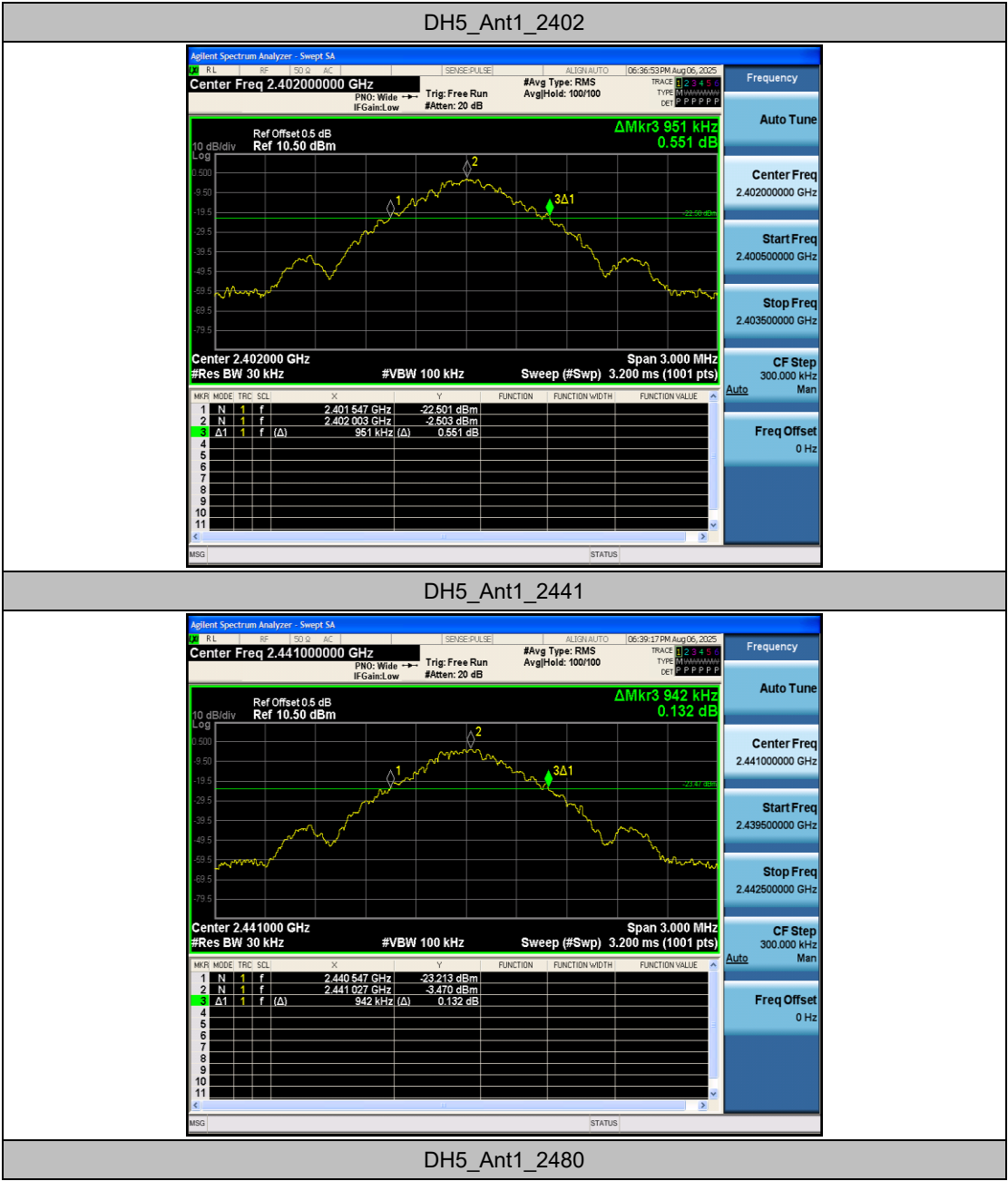
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.547	2402.498	---	---
		2441	0.942	2440.547	2441.489	---	---
		2480	0.942	2479.553	2480.495	---	---
2DH5	Ant1	2402	1.305	2401.358	2402.663	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.341	2479.340	2480.681	---	---
3DH5	Ant1	2402	1.293	2401.364	2402.657	---	---
		2441	1.299	2440.364	2441.663	---	---
		2480	1.290	2479.367	2480.657	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



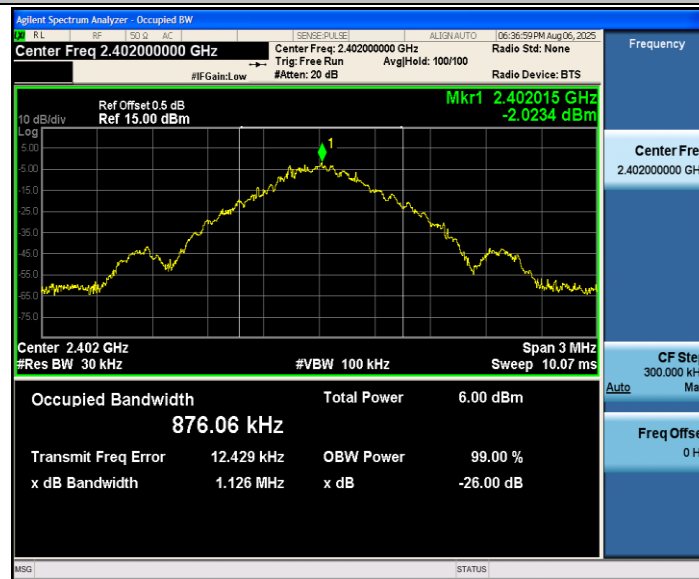
Appendix B: Occupied Channel Bandwidth

Test Result

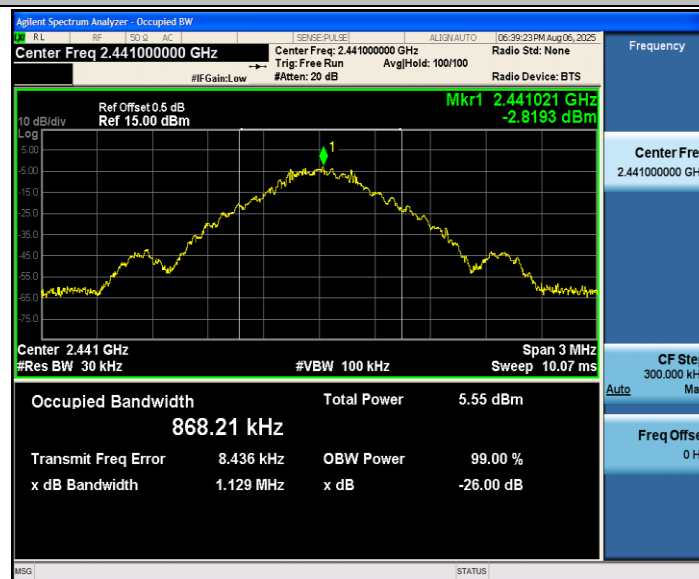
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87606	2401.5744	2402.4505	---	---
		2441	0.86821	2440.5743	2441.4425	---	---
		2480	0.87066	2479.5744	2480.4450	---	---
2DH5	Ant1	2402	1.1850	2401.4175	2402.6025	---	---
		2441	1.1810	2440.4195	2441.6005	---	---
		2480	1.1900	2479.4157	2480.6057	---	---
3DH5	Ant1	2402	1.1932	2401.4134	2402.6066	---	---
		2441	1.1847	2440.4188	2441.6035	---	---
		2480	1.1871	2479.4172	2480.6043	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



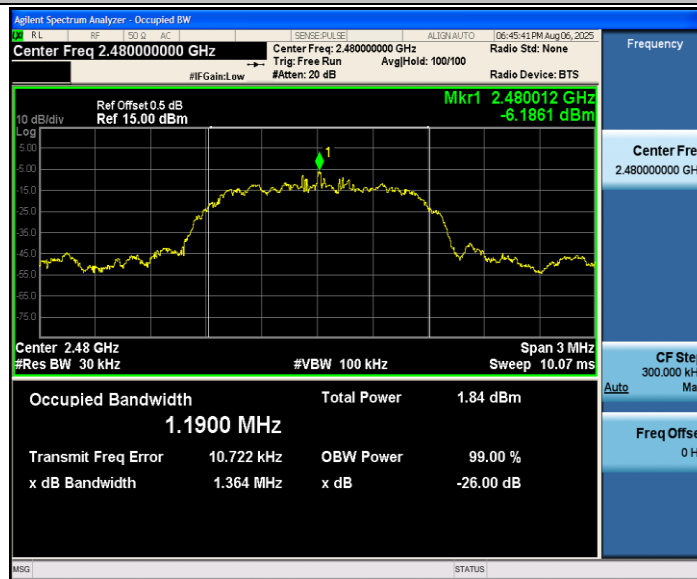
2DH5_Ant1_2402



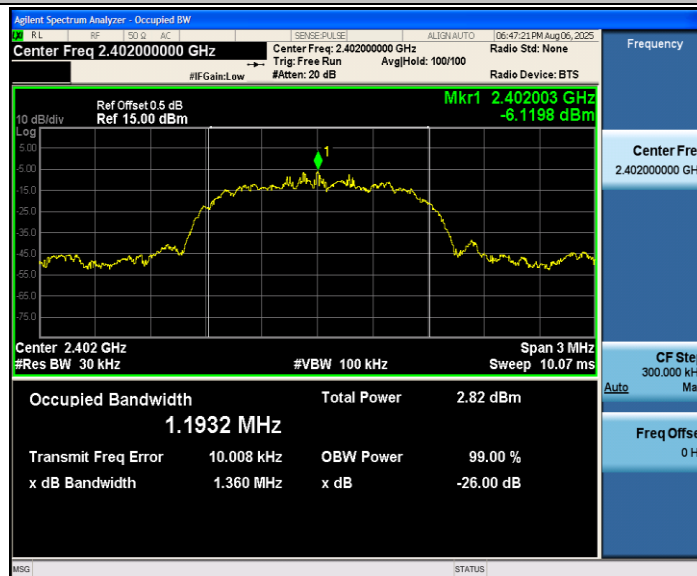
2DH5_Ant1_2441



2DH5_Ant1_2480



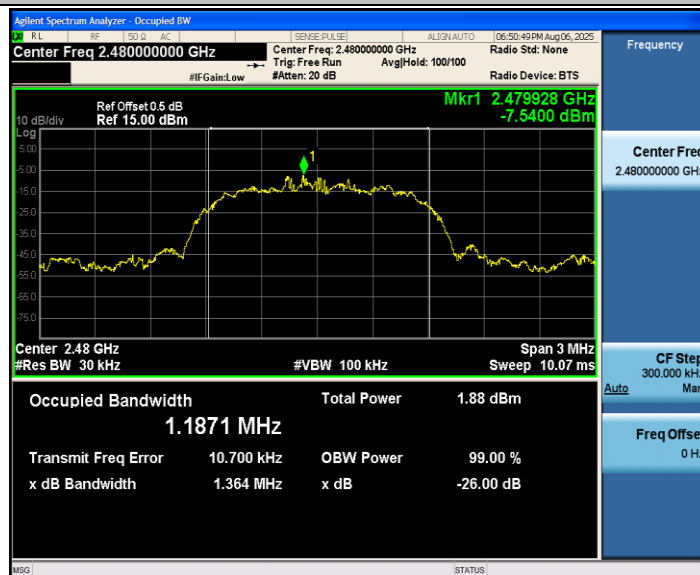
3DH5_Ant1_2402



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	0.12	≤20.97	PASS
		2441	-0.44	≤20.97	PASS
		2480	-0.75	≤20.97	PASS
2DH5	Ant1	2402	-0.72	≤20.97	PASS
		2441	-1.24	≤20.97	PASS
		2480	-1.55	≤20.97	PASS
3DH5	Ant1	2402	-0.26	≤20.97	PASS
		2441	-0.88	≤20.97	PASS
		2480	-1.18	≤20.97	PASS

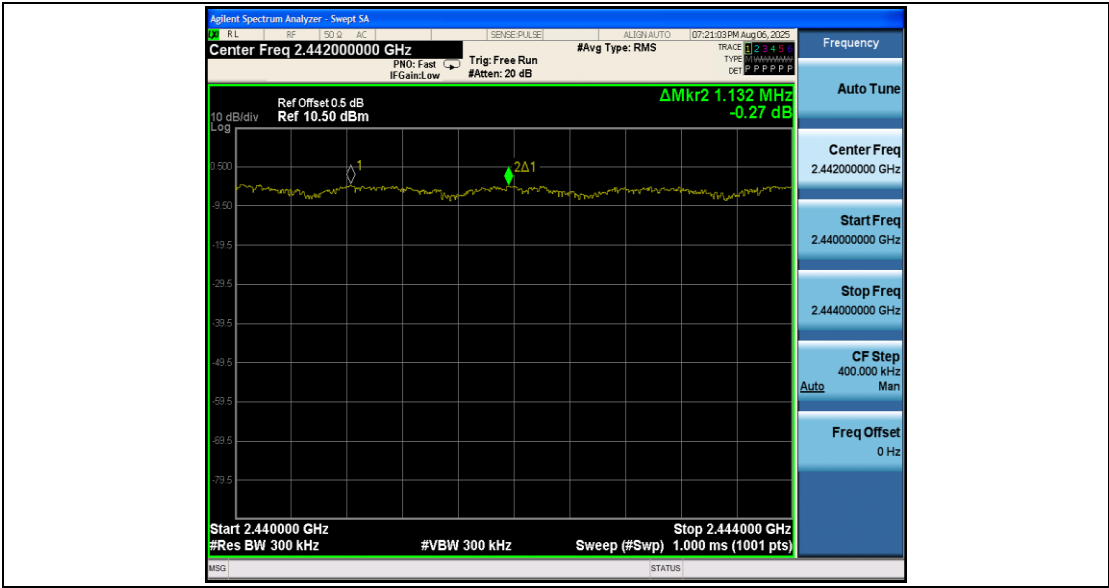
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.044	≥ 0.951	PASS
2DH5	Ant1	Hop	1.232	≥ 0.894	PASS
3DH5	Ant1	Hop	1.132	≥ 0.866	PASS

Test Graphs



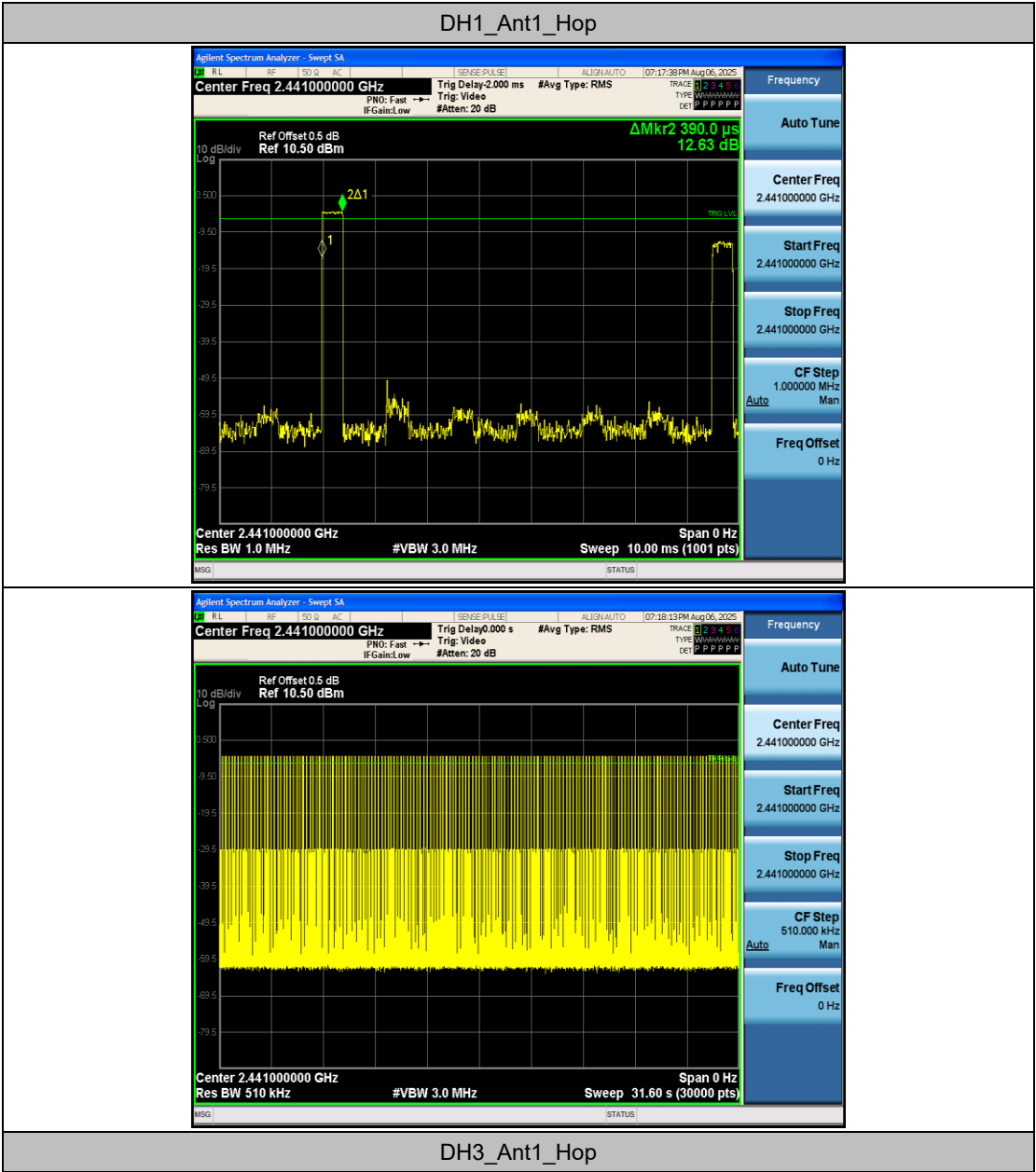


Appendix E: Time of occupancy

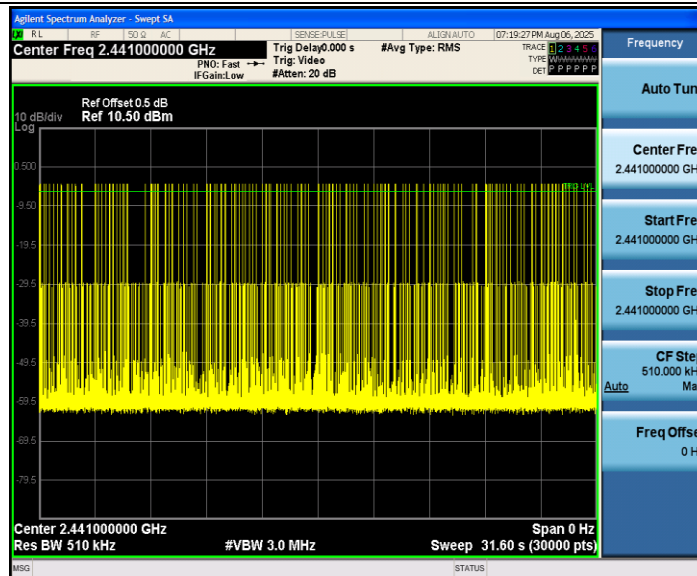
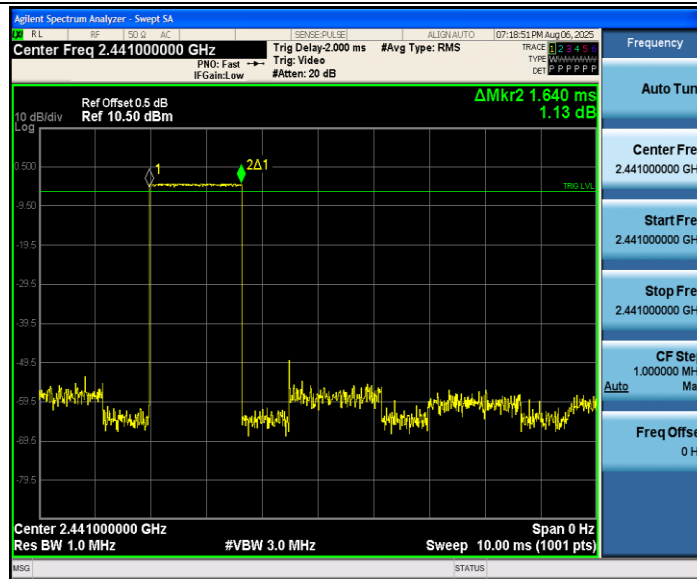
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	162	0.266	≤0.4	PASS
DH5	Ant1	Hop	2.890	108	0.312	≤0.4	PASS
2DH1	Ant1	Hop	0.400	318	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.900	0	0	≤0.4	PASS
3DH1	Ant1	Hop	0.400	320	0.128	≤0.4	PASS
3DH3	Ant1	Hop	1.650	158	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS

Test Graphs

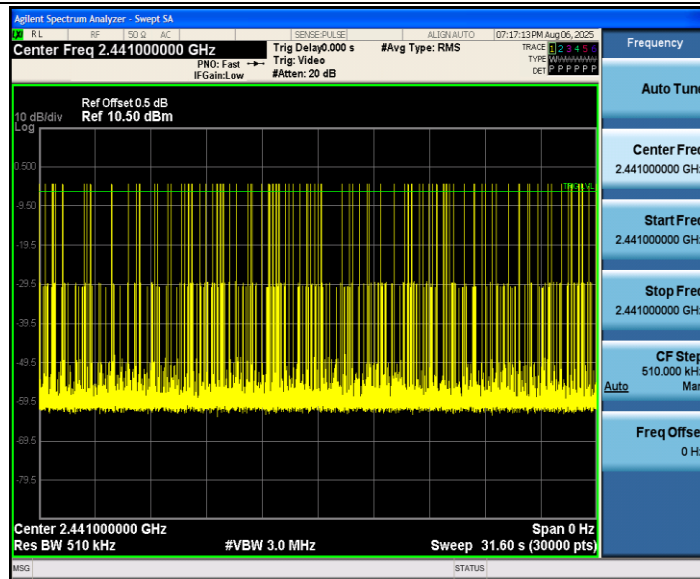


DH3_Ant1_Hop

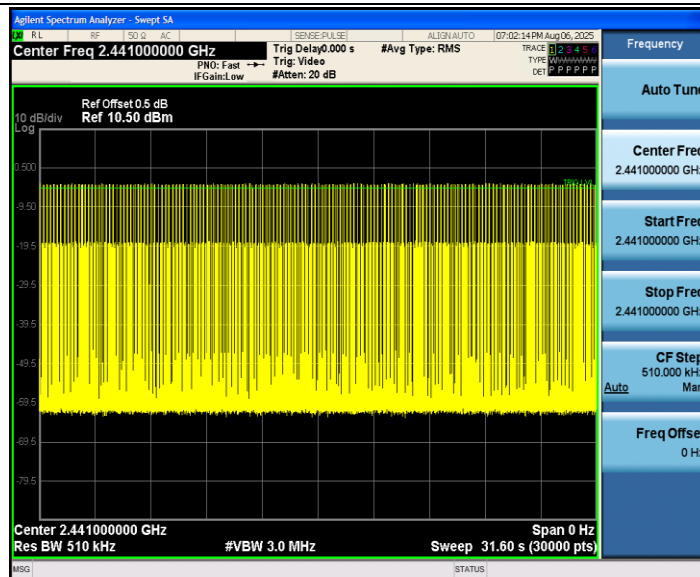
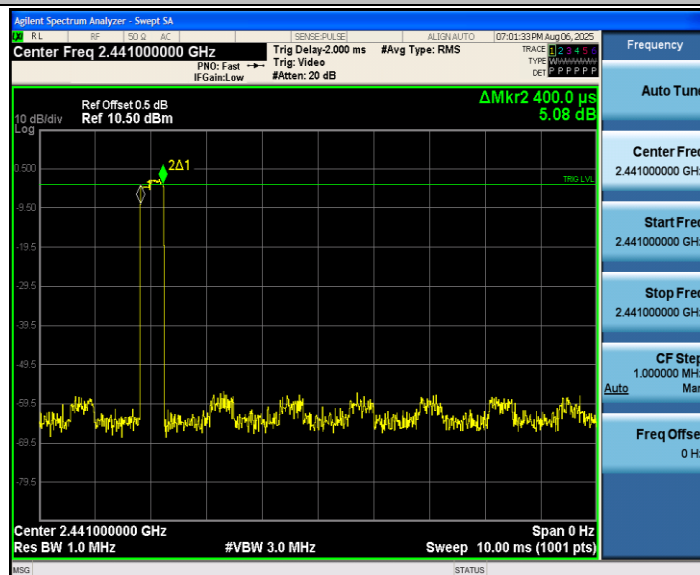


DH5_Ant1_Hop

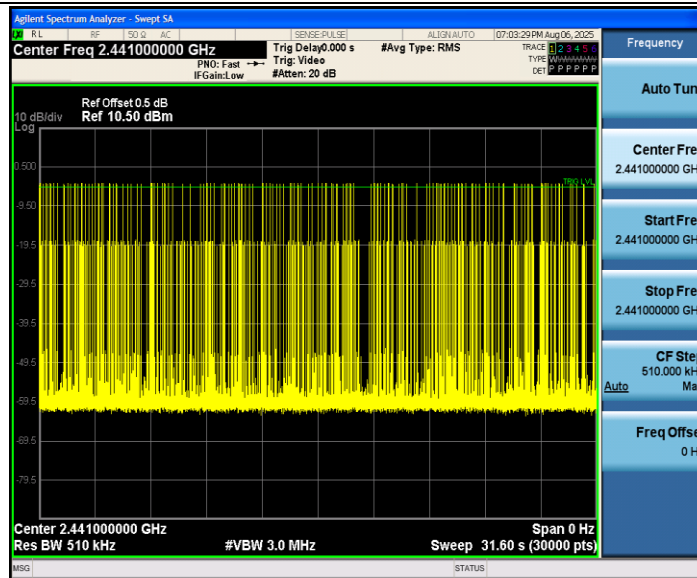
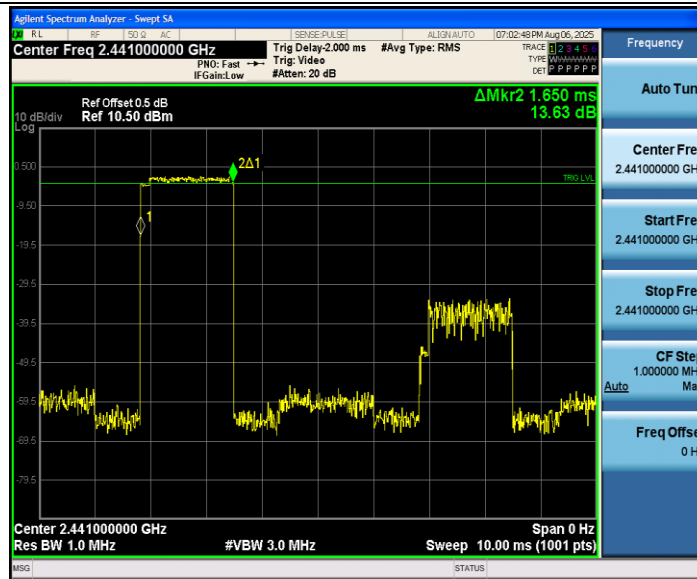




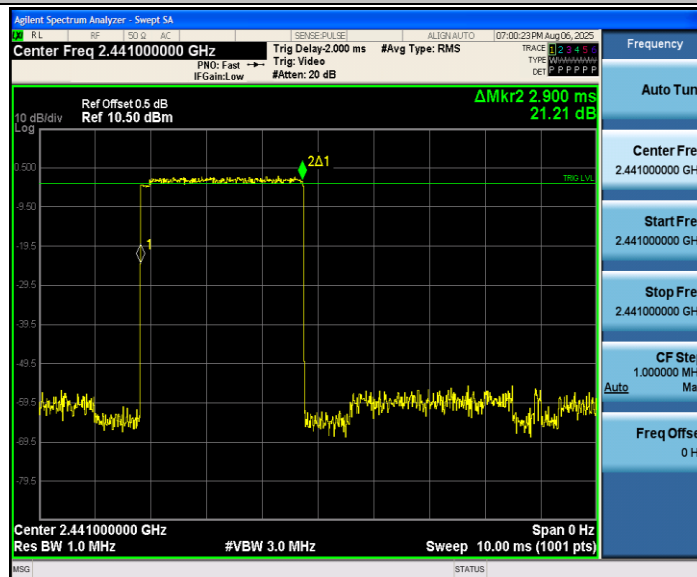
2DH1_Ant1_Hop

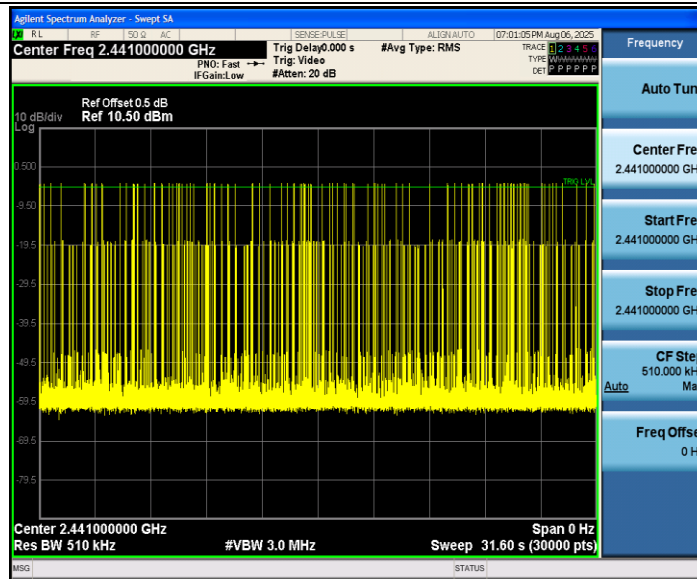


2DH3_Ant1_Hop

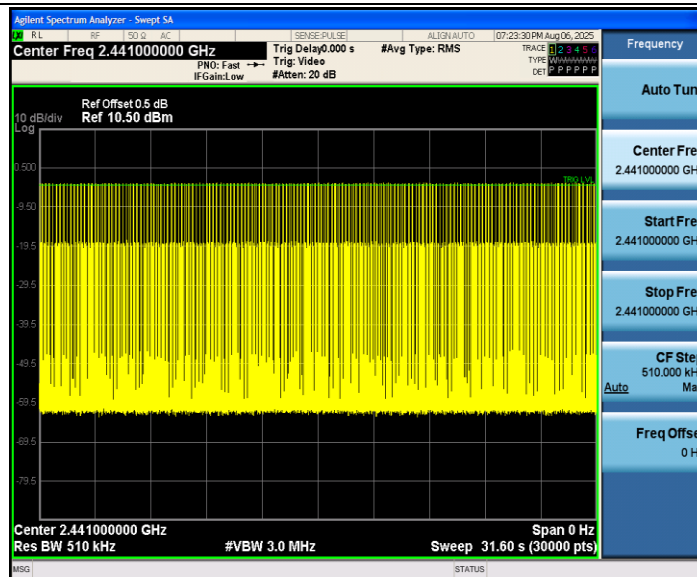
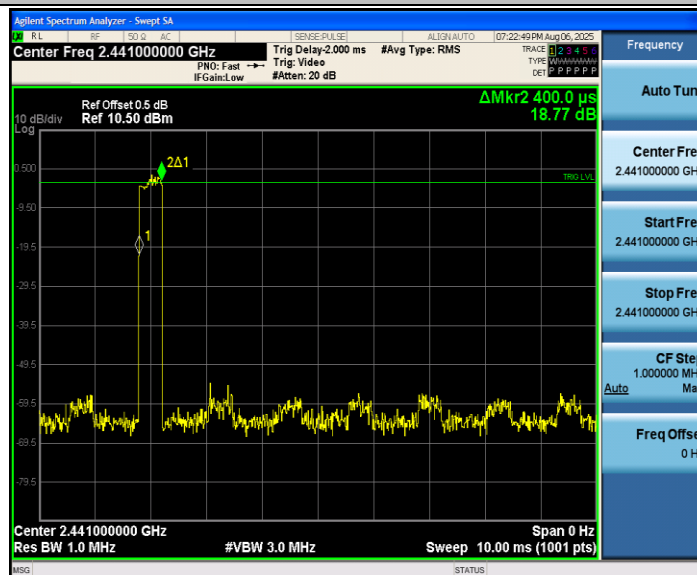


2DH5_Ant1_Hop

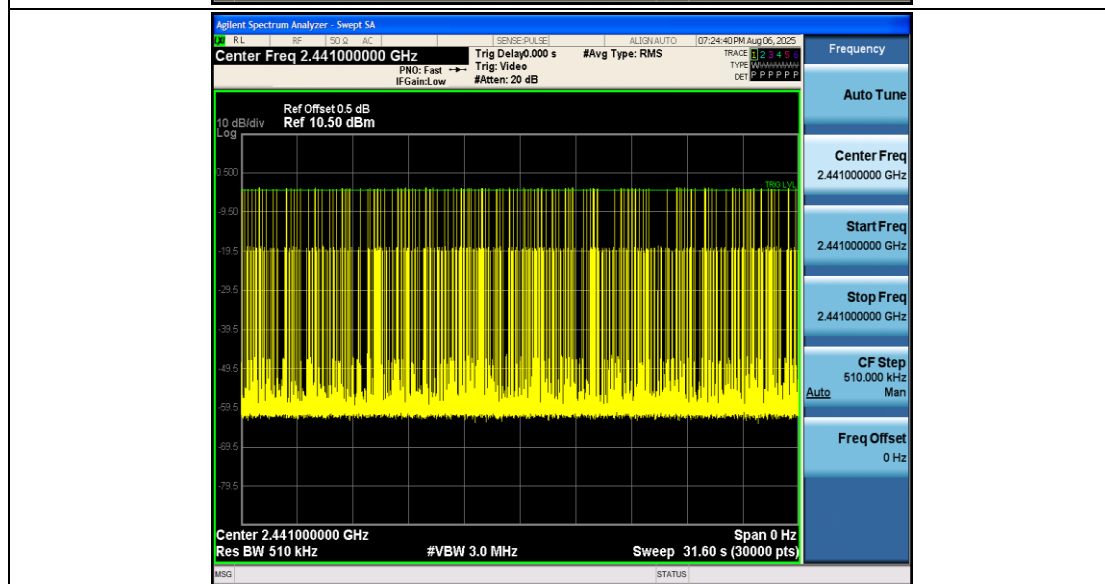




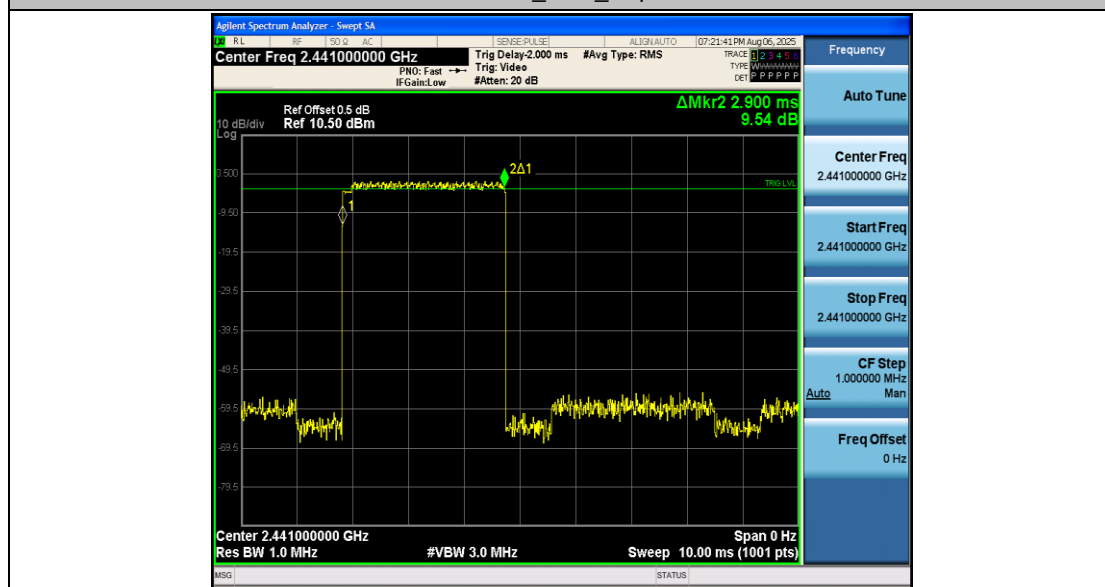
3DH1_Ant1_Hop

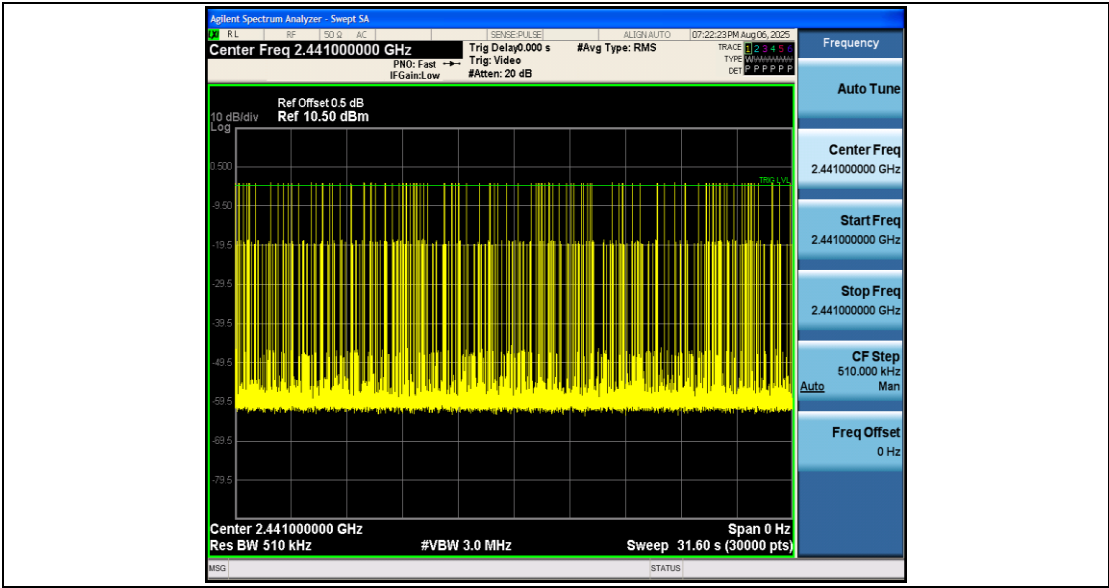


3DH3_Ant1_Hop



3DH5_Ant1_Hop



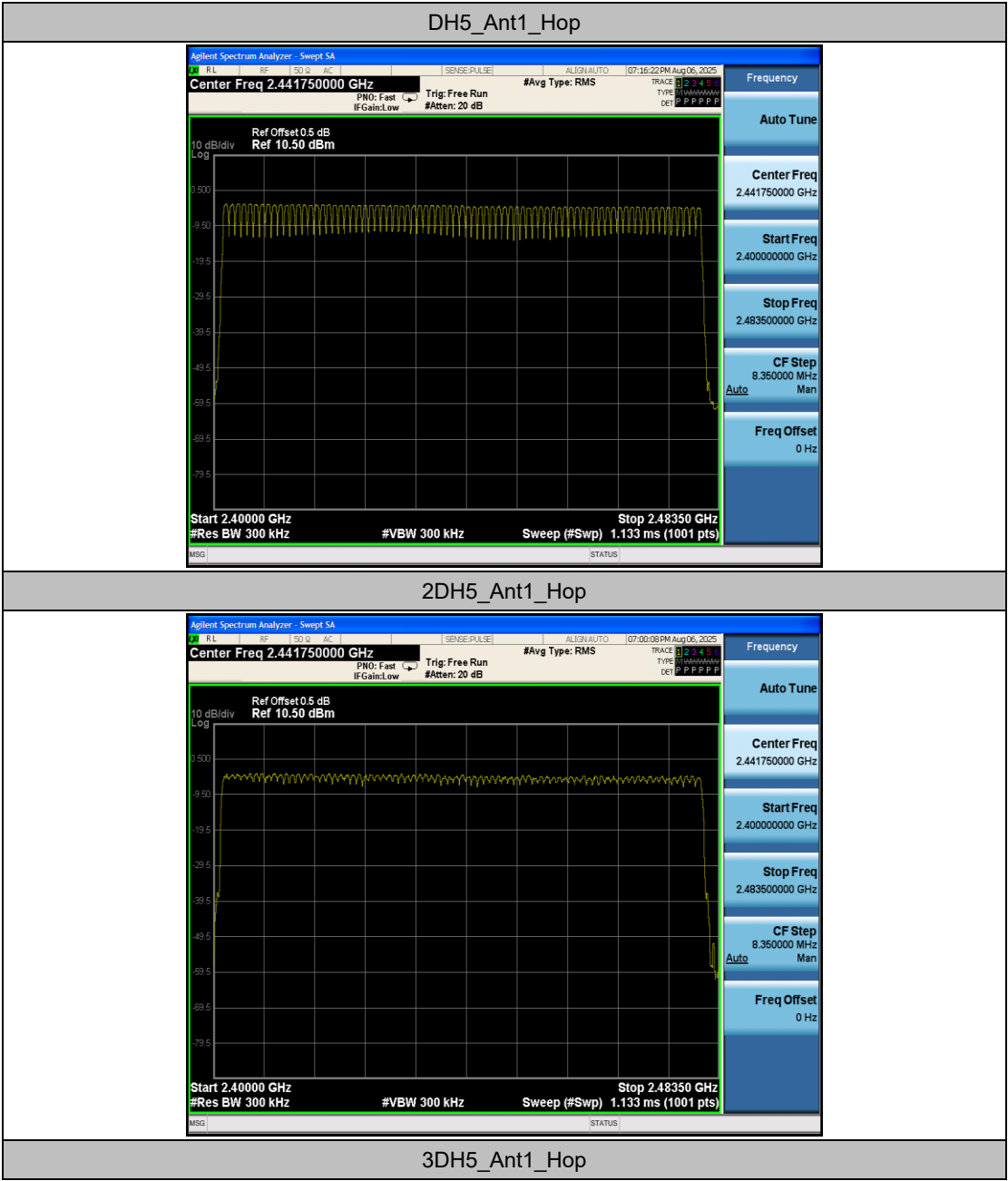


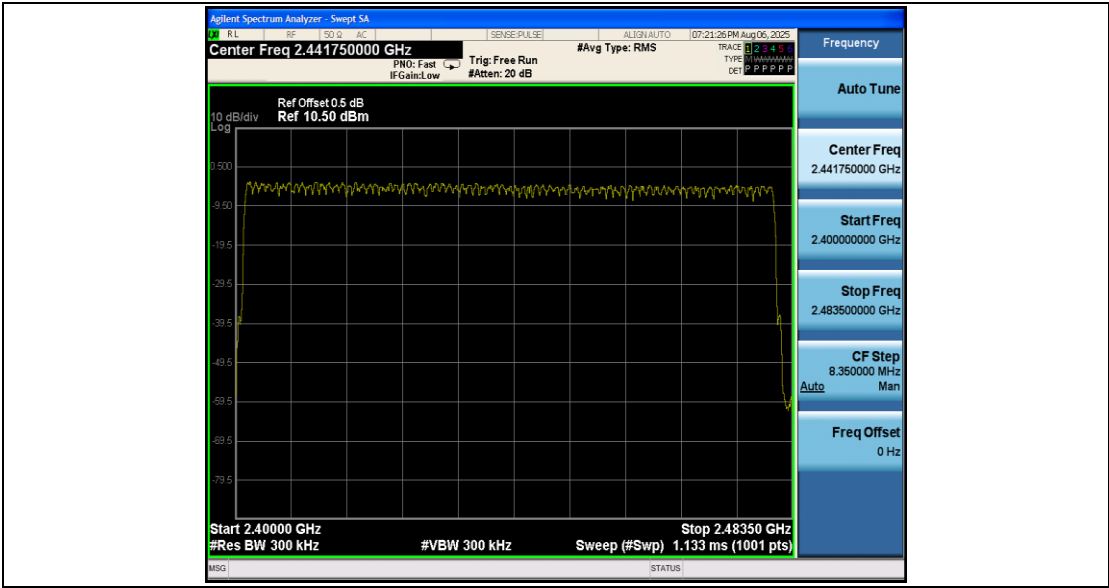
Appendix F: Number of hopping channels

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



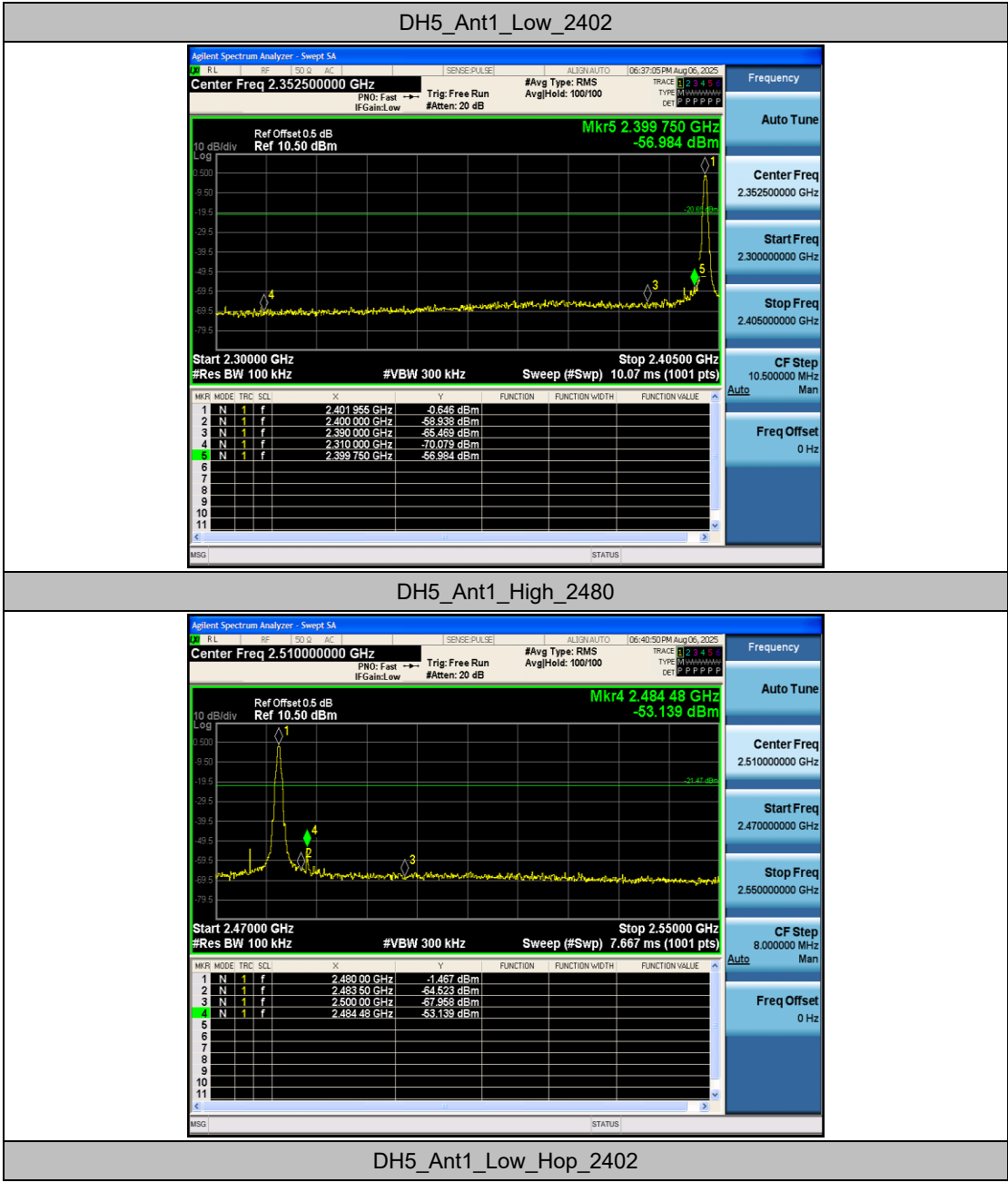


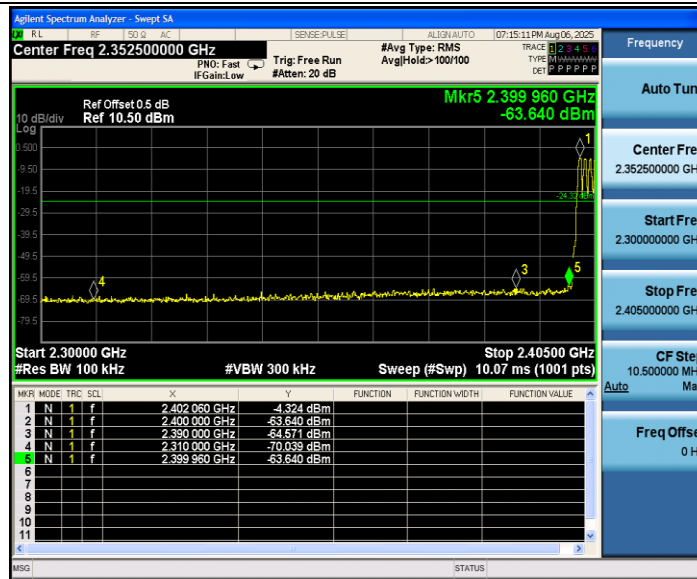
Appendix G: Band edge measurements

Test Result

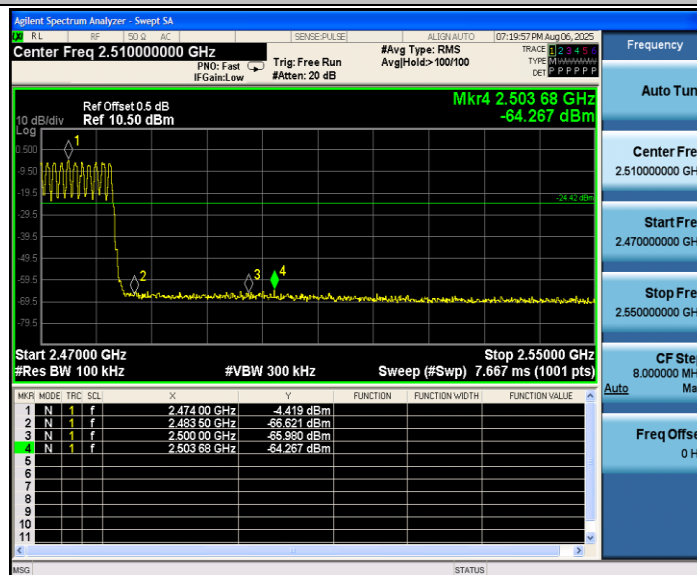
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.65	-56.98	≤-20.65	PASS
		High	2480	-1.47	-53.14	≤-21.47	PASS
		Low	Hop_2402	-4.32	-63.64	≤-24.32	PASS
		High	Hop_2480	-4.42	-64.27	≤-24.42	PASS
2DH5	Ant1	Low	2402	-3.26	-58.86	≤-23.26	PASS
		High	2480	-5.33	-57.13	≤-25.33	PASS
		Low	Hop_2402	-8.13	-64.5	≤-28.13	PASS
		High	Hop_2480	-7.36	-63.93	≤-27.36	PASS
3DH5	Ant1	Low	2402	-3.30	-59.51	≤-23.3	PASS
		High	2480	-4.67	-63.53	≤-24.67	PASS
		Low	Hop_2402	-4.71	-61.67	≤-24.71	PASS
		High	Hop_2480	-4.32	-64.67	≤-24.32	PASS

Test Graphs

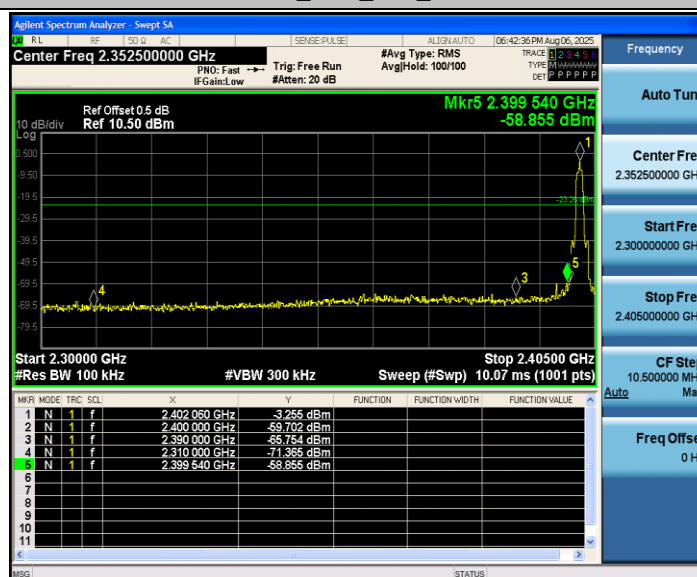




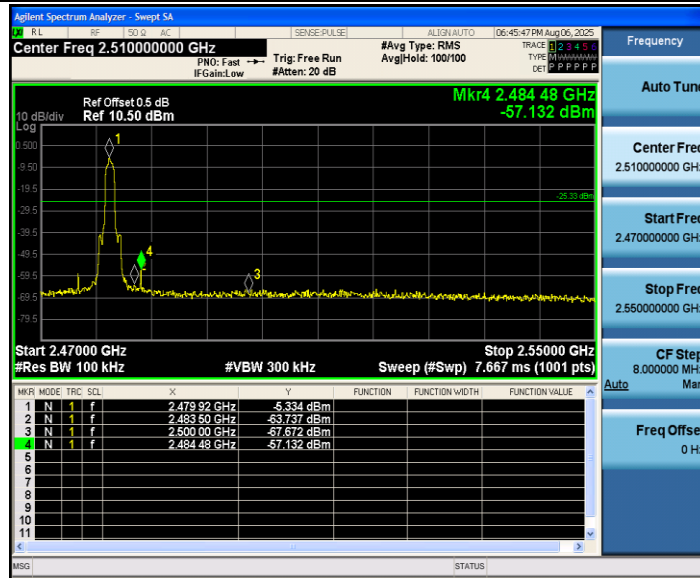
DH5_Ant1_High_Hop_2480



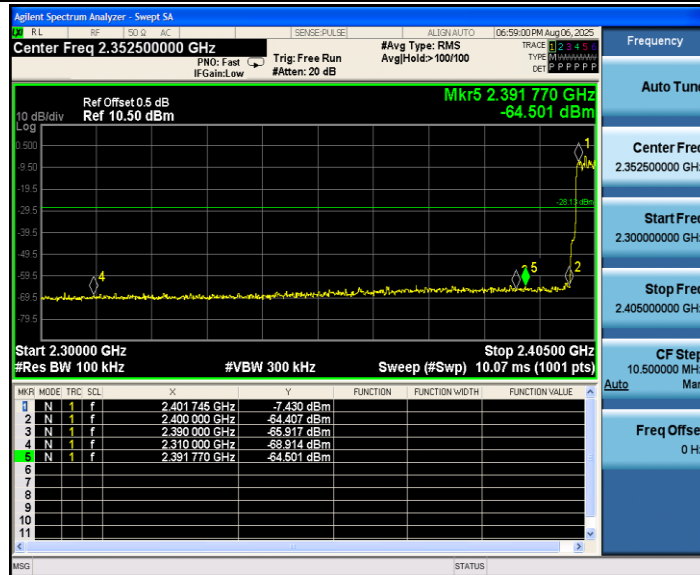
2DH5_Ant1_Low_2402



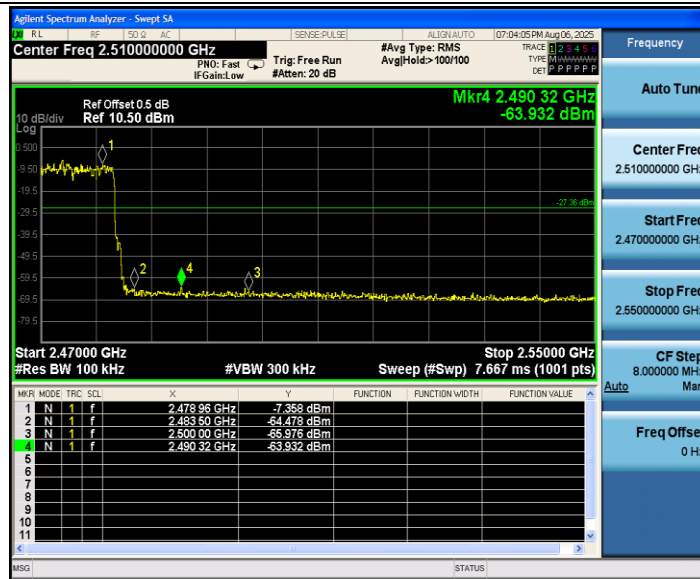
2DH5_Ant1_High_2480



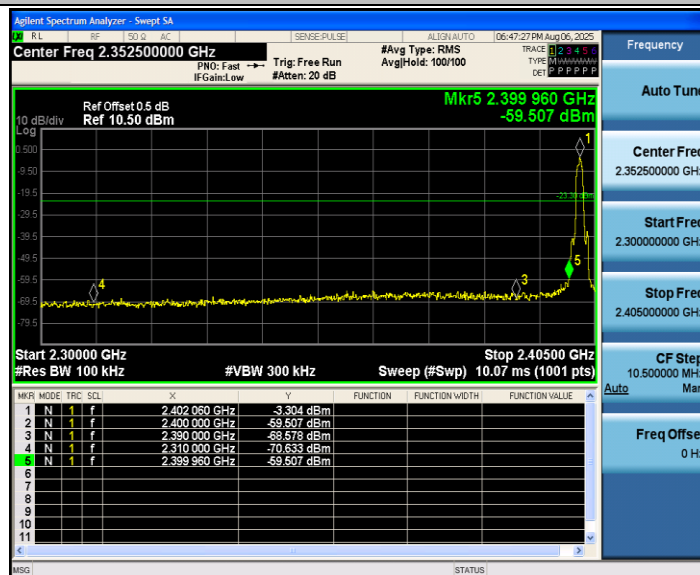
2DH5_Ant1_Low_Hop_2402



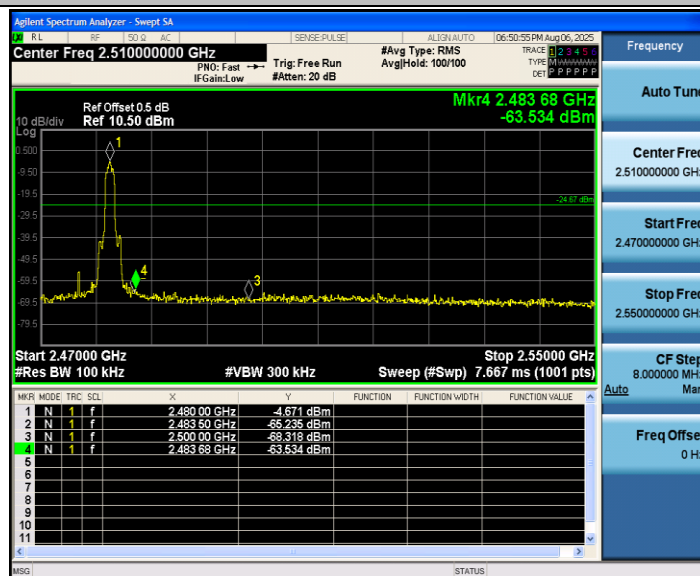
2DH5_Ant1_High_Hop_2480



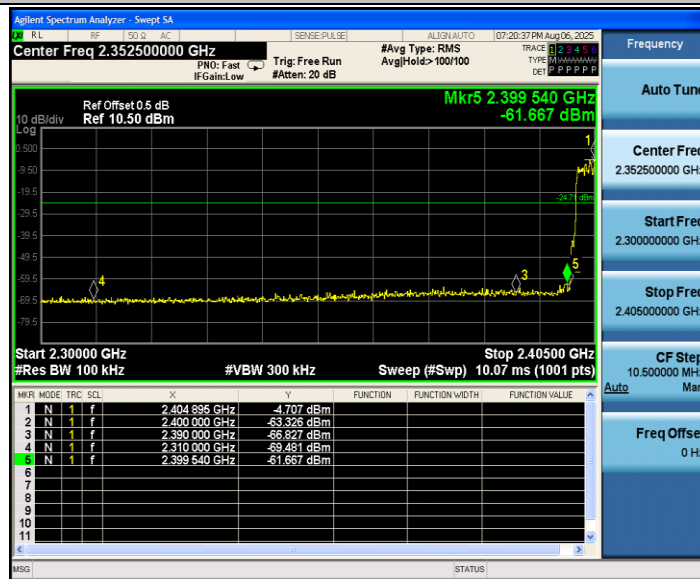
3DH5_Ant1_Low_2402



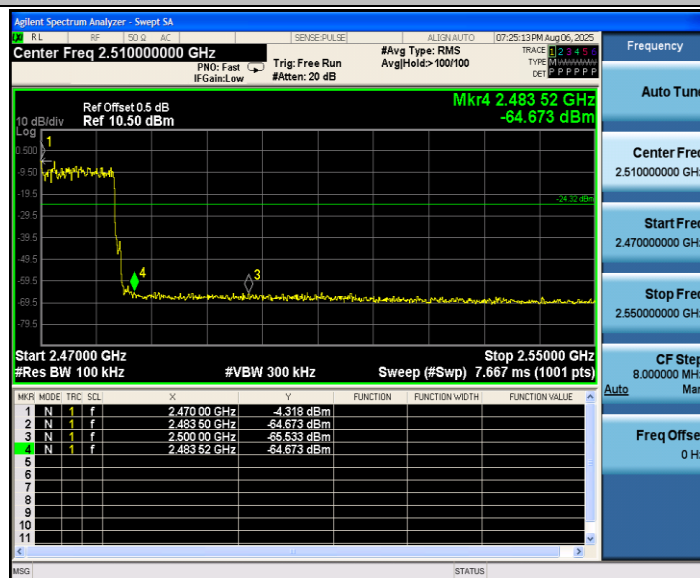
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

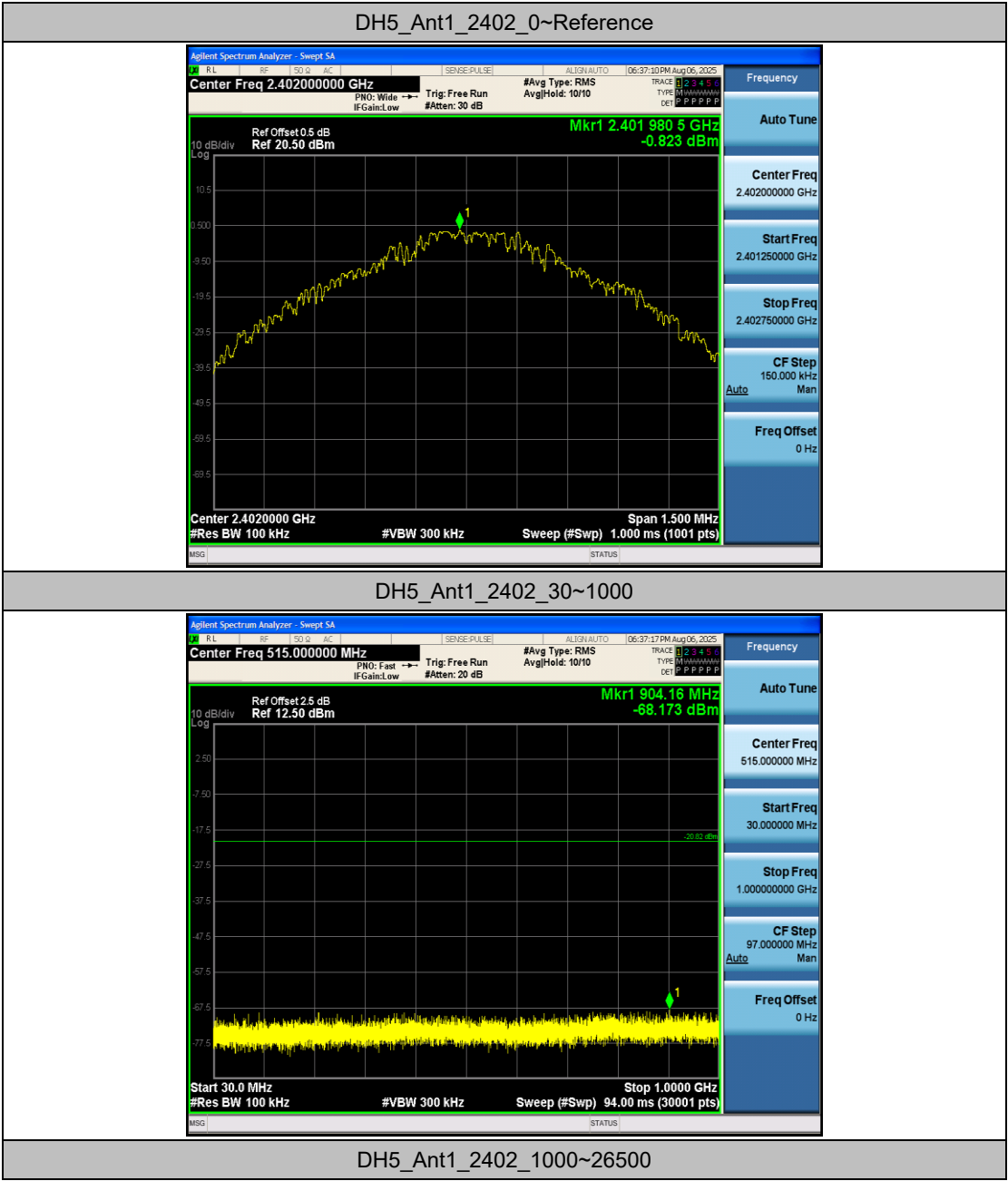


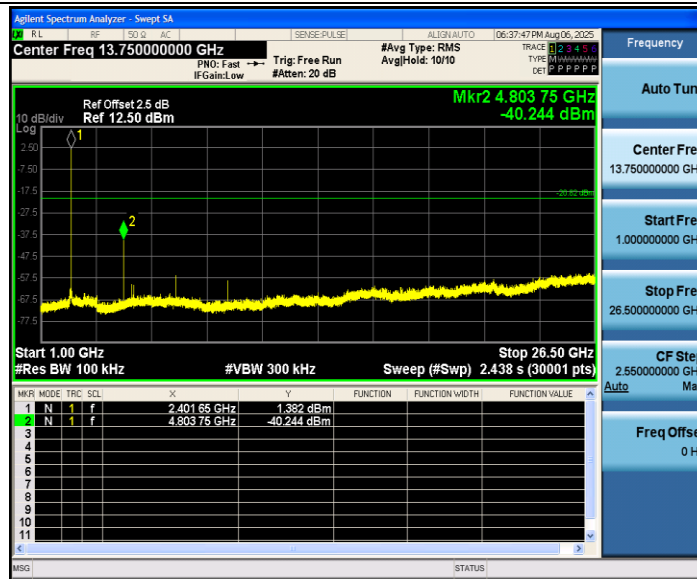
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-68.17	≤-20.82	PASS
			1000~26500	-0.82	-40.24	≤-20.82	PASS
		2441	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-68.4	≤-21.48	PASS
			1000~26500	-1.48	-43.68	≤-21.48	PASS
		2480	Reference	-1.84	-1.84	---	PASS
			30~1000	-1.84	-68.13	≤-21.84	PASS
			1000~26500	-1.84	-45.25	≤-21.84	PASS
2DH5	Ant1	2402	Reference	-3.98	-3.98	---	PASS
			30~1000	-3.98	-67.44	≤-23.98	PASS
			1000~26500	-3.98	-48.98	≤-23.98	PASS
		2441	Reference	-7.13	-7.13	---	PASS
			30~1000	-7.13	-67.66	≤-27.13	PASS
			1000~26500	-7.13	-46.07	≤-27.13	PASS
		2480	Reference	-7.48	-7.48	---	PASS
			30~1000	-7.48	-68.17	≤-27.48	PASS
			1000~26500	-7.48	-48.08	≤-27.48	PASS
3DH5	Ant1	2402	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-67.45	≤-25.02	PASS
			1000~26500	-5.02	-49.92	≤-25.02	PASS
		2441	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-67.9	≤-25.18	PASS
			1000~26500	-5.18	-49.61	≤-25.18	PASS
		2480	Reference	-7.27	-7.27	---	PASS
			30~1000	-7.27	-67.68	≤-27.27	PASS
			1000~26500	-7.27	-51.12	≤-27.27	PASS

Test Graphs

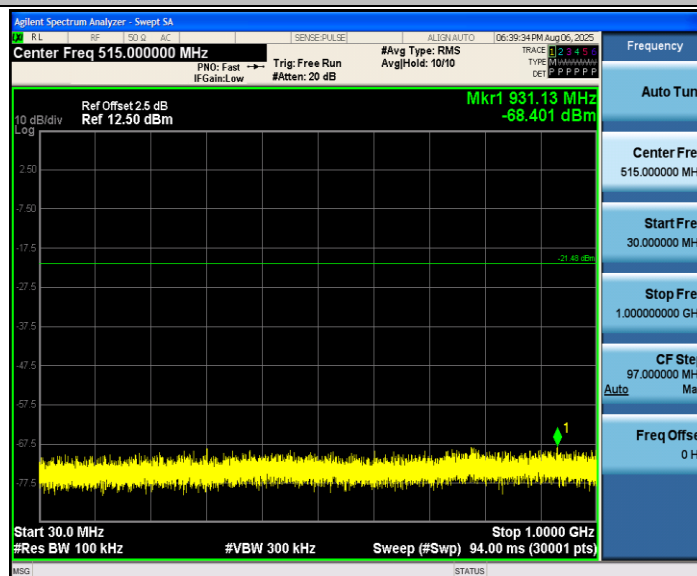




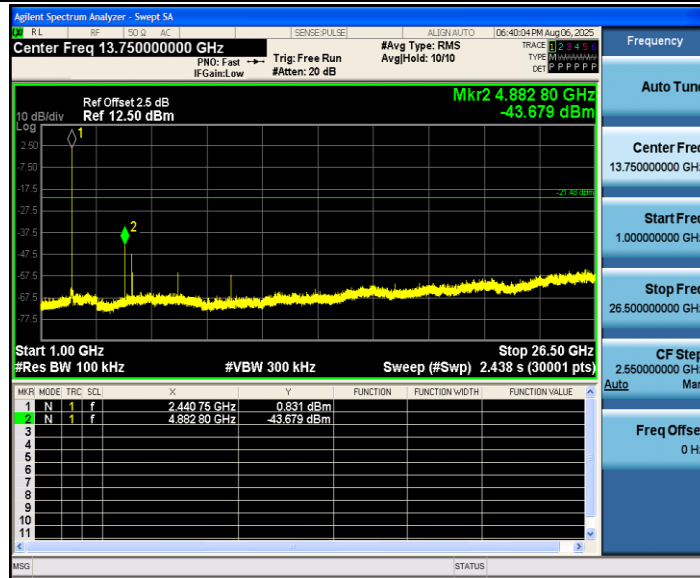
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



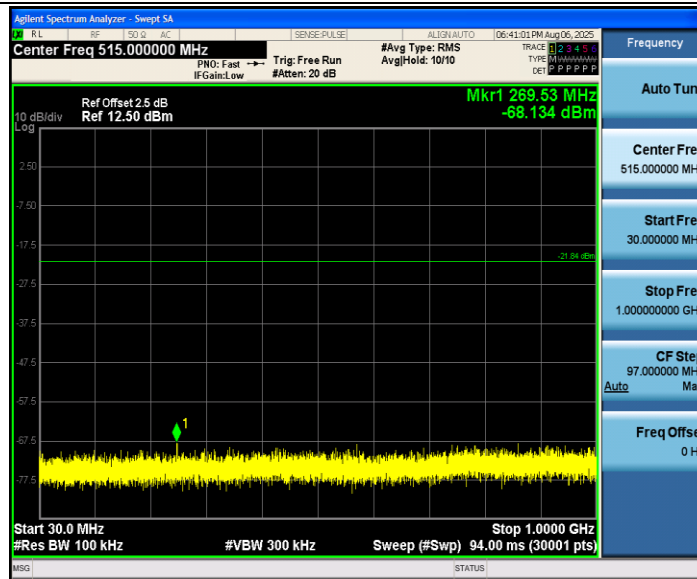
DH5_Ant1_2441_1000~26500



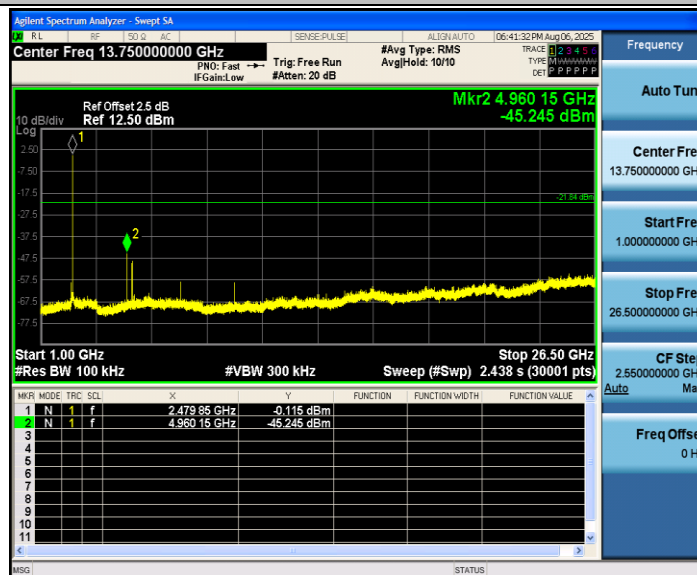
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

