

FCC Appendix RF Test Data

FCC ID : 2BQNB-T77

Company : shenzhenshiyunxinchuangkejiyouxiangongsi

EUT : Wireless speaker

Model Number : T77

Report No. : CTA25062701901

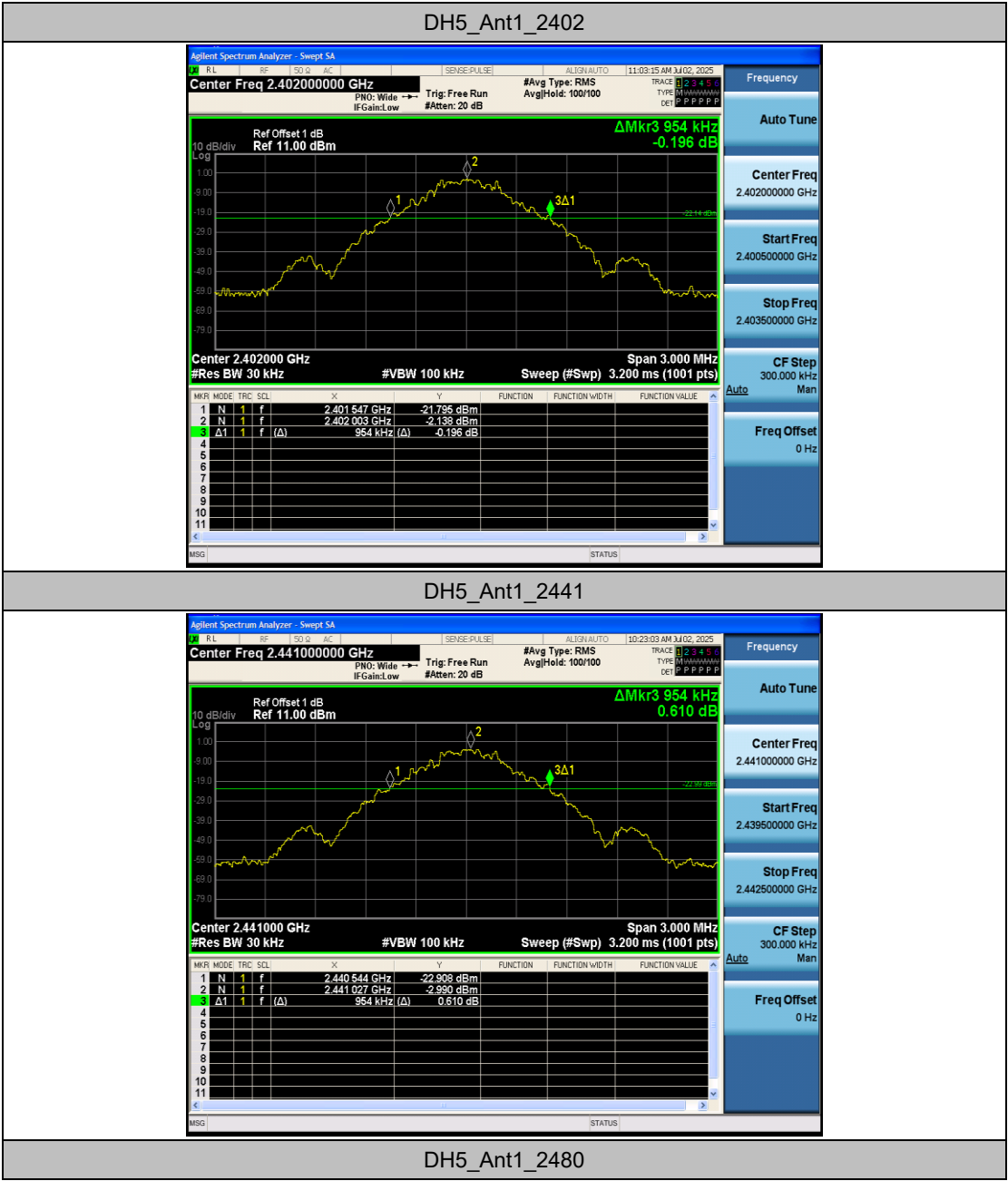
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.547	2402.501	---	---
		2441	0.954	2440.544	2441.498	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.314	2401.352	2402.666	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.269	2479.388	2480.657	---	---
3DH5	Ant1	2402	1.305	2401.361	2402.666	---	---
		2441	1.302	2440.361	2441.663	---	---
		2480	1.293	2479.364	2480.657	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

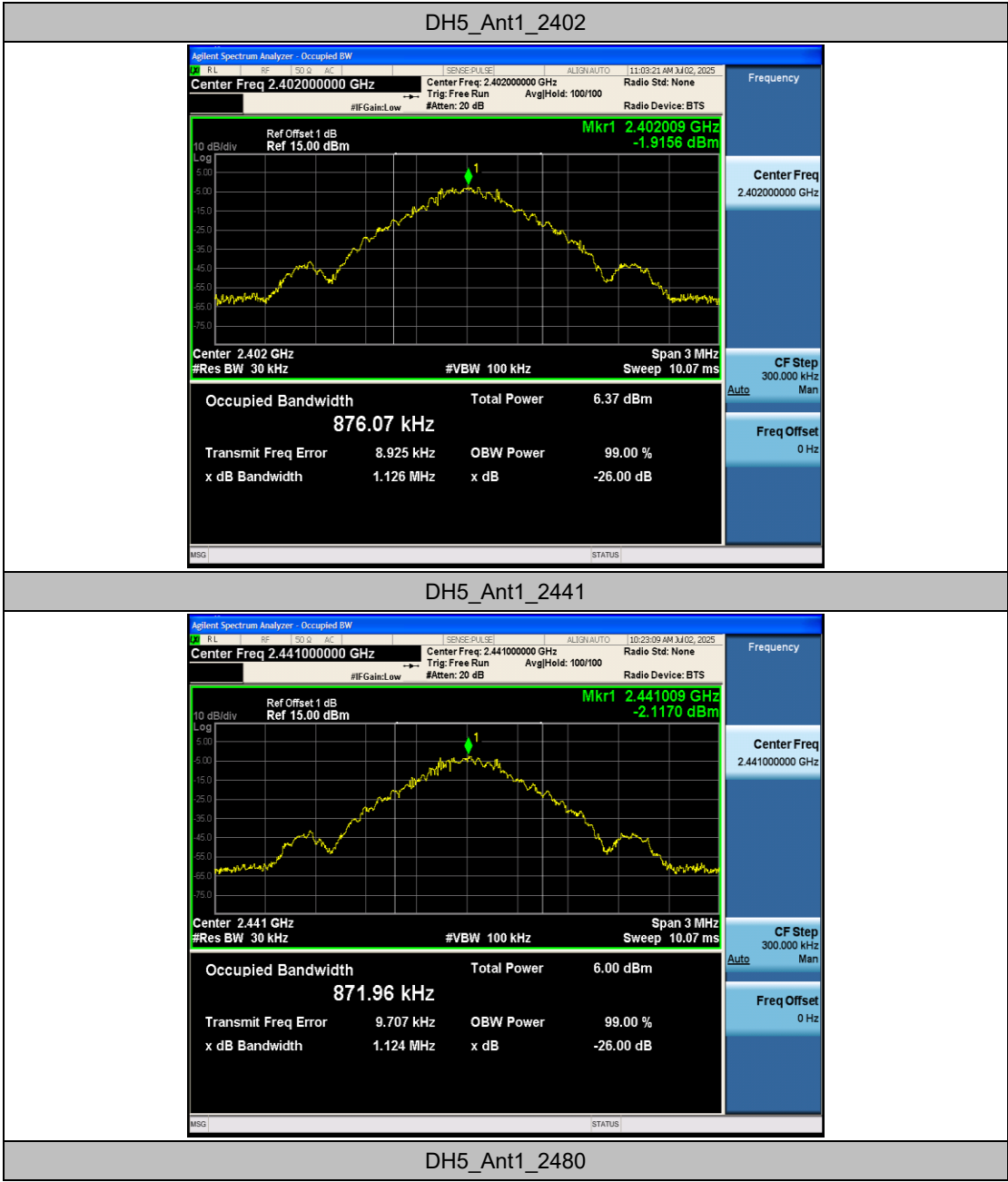


Appendix B: Occupied Channel Bandwidth

Test Result

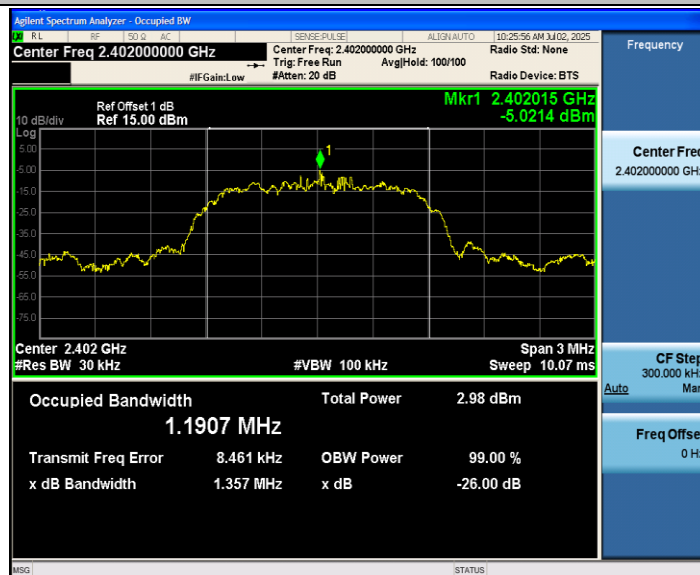
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87607	2401.5709	2402.4470	---	---
		2441	0.87196	2440.5737	2441.4457	---	---
		2480	0.87154	2479.5722	2480.4438	---	---
2DH5	Ant1	2402	1.1907	2401.4131	2402.6038	---	---
		2441	1.1882	2440.4163	2441.6045	---	---
		2480	1.1886	2479.4153	2480.6039	---	---
3DH5	Ant1	2402	1.1883	2401.4149	2402.6032	---	---
		2441	1.1850	2440.4187	2441.6037	---	---
		2480	1.1875	2479.4157	2480.6032	---	---

Test Graphs

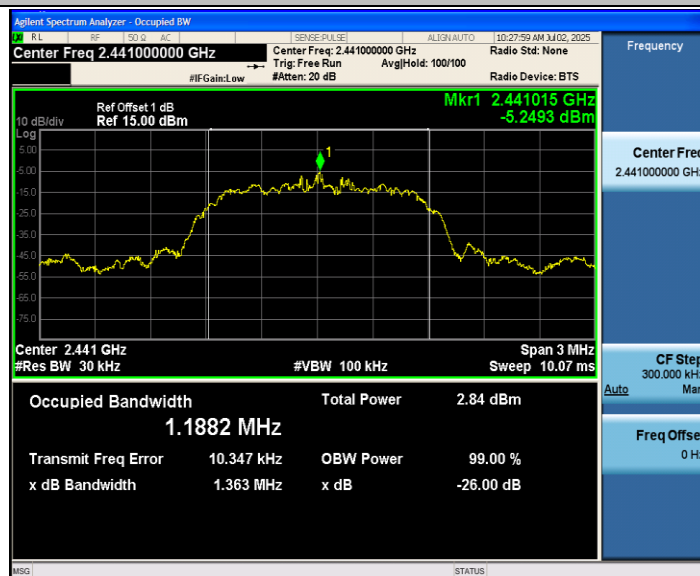




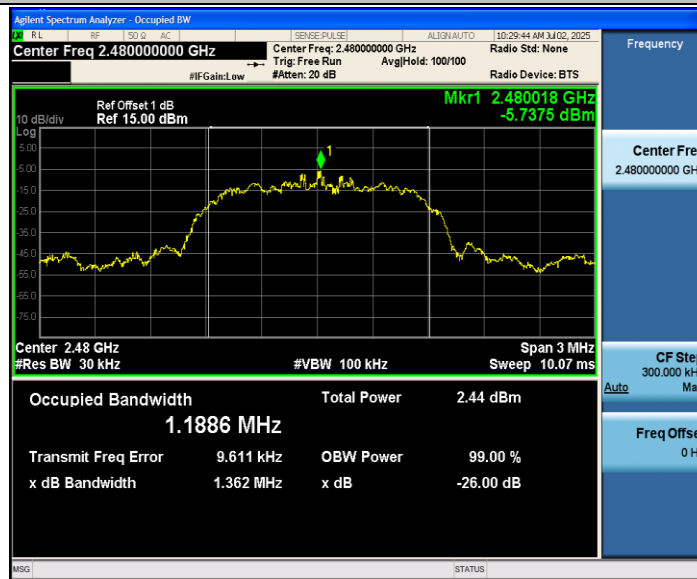
2DH5_Ant1_2402



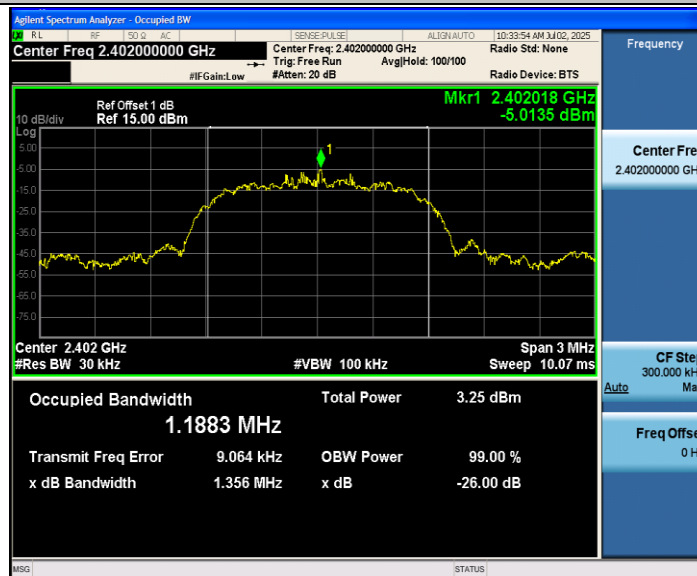
2DH5_Ant1_2441



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	0.53	≤20.97	PASS
		2441	0.06	≤20.97	PASS
		2480	-0.22	≤20.97	PASS
2DH5	Ant1	2402	-0.29	≤20.97	PASS
		2441	-0.73	≤20.97	PASS
		2480	-1.01	≤20.97	PASS
3DH5	Ant1	2402	0.14	≤20.97	PASS
		2441	-0.33	≤20.97	PASS
		2480	-0.63	≤20.97	PASS

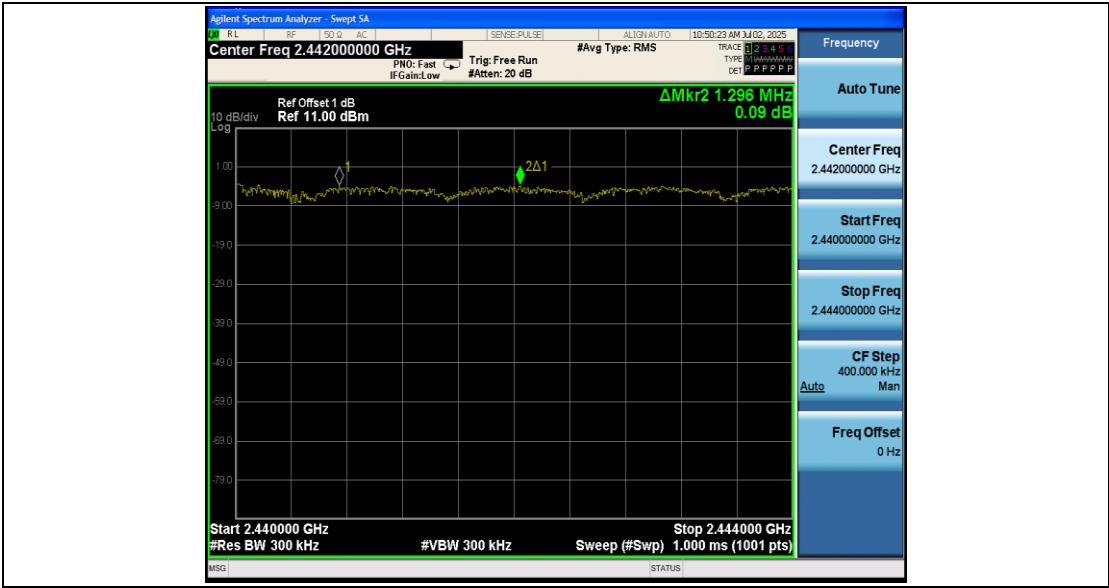
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.148	≥ 0.954	PASS
2DH5	Ant1	Hop	1.056	≥ 0.876	PASS
3DH5	Ant1	Hop	1.296	≥ 0.870	PASS

Test Graphs



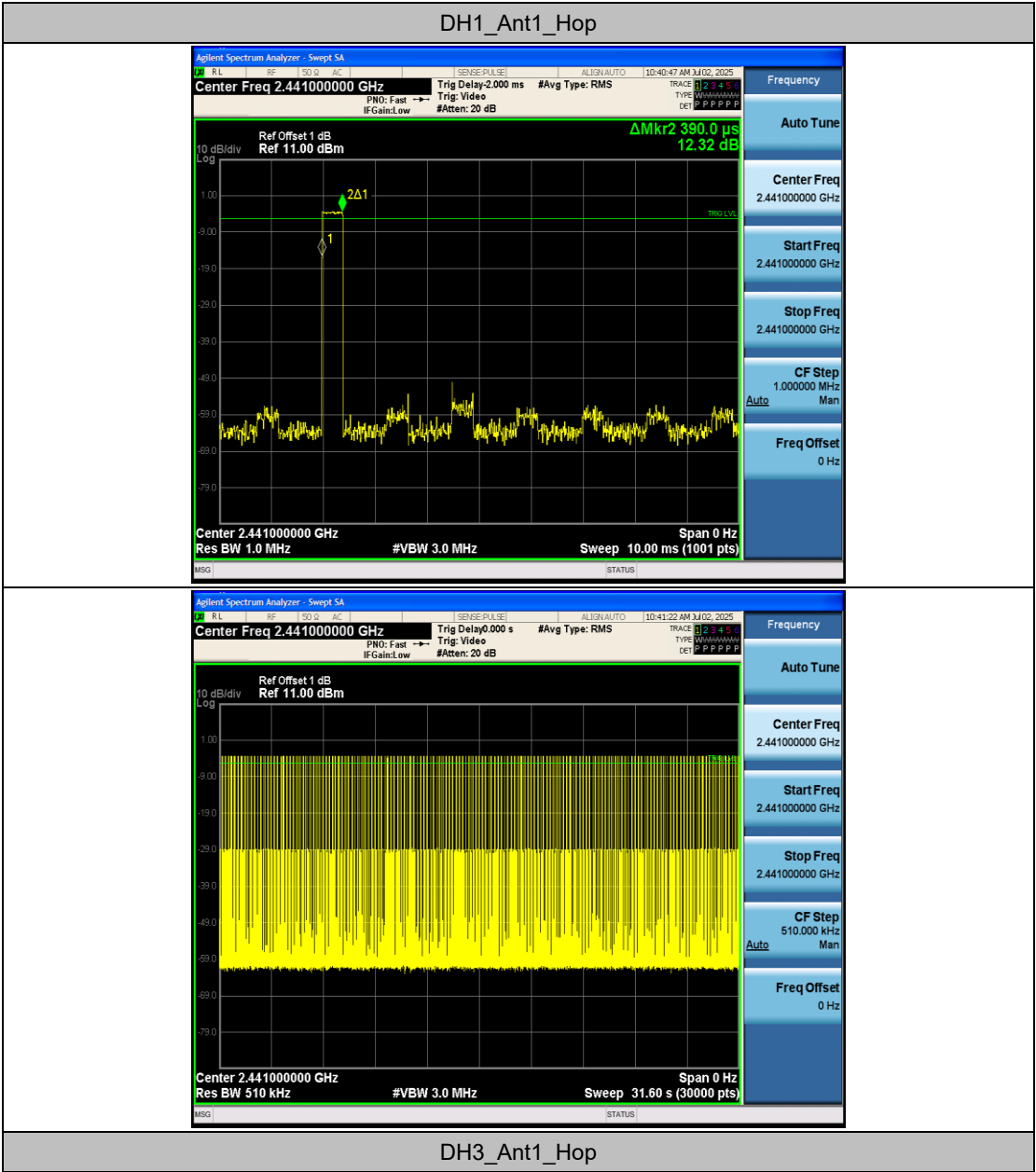


Appendix E: Time of occupancy

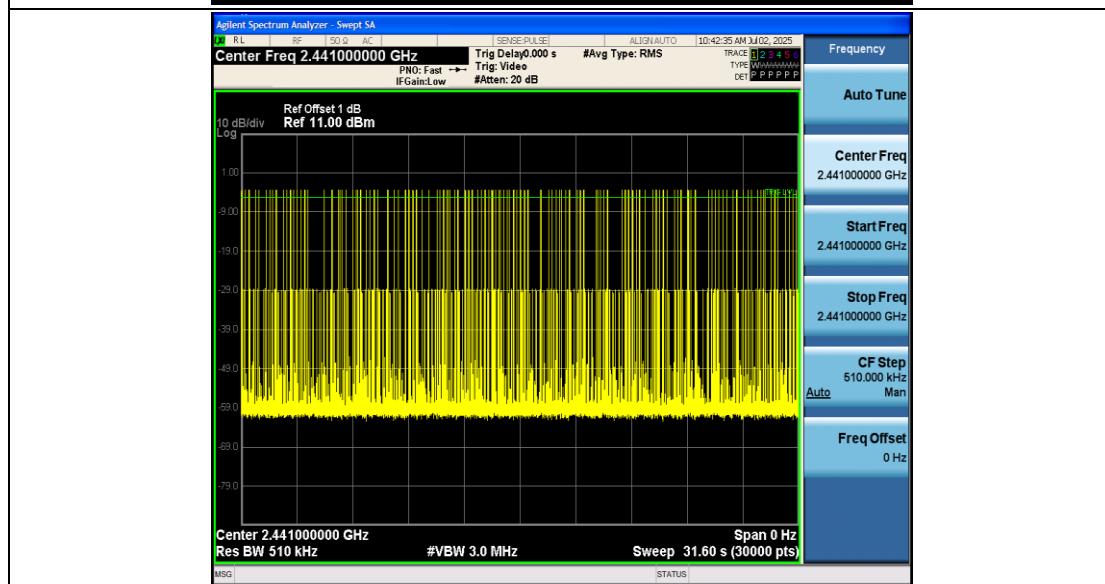
Test Result

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	157	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.890	114	0.329	≤0.4	PASS
2DH1	Ant1	Hop	0.400	319	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.650	158	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.900	101	0.293	≤0.4	PASS
3DH1	Ant1	Hop	0.400	320	0.128	≤0.4	PASS
3DH3	Ant1	Hop	1.650	157	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.900	105	0.305	≤0.4	PASS

Test Graphs

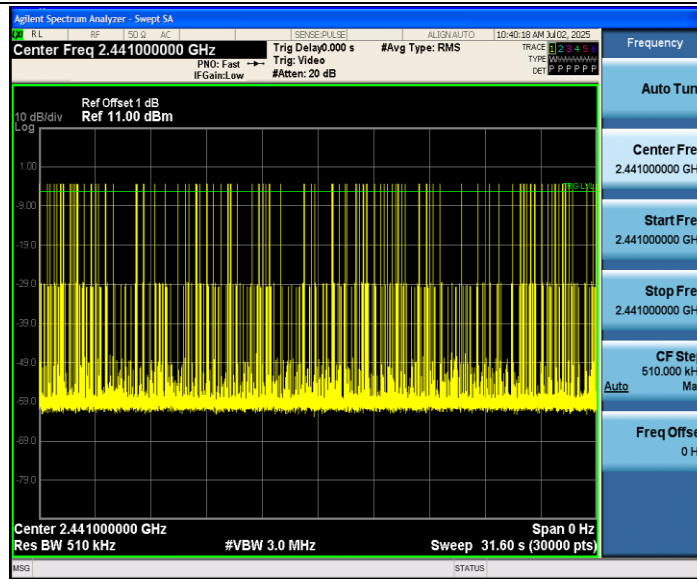


DH3_Ant1_Hop

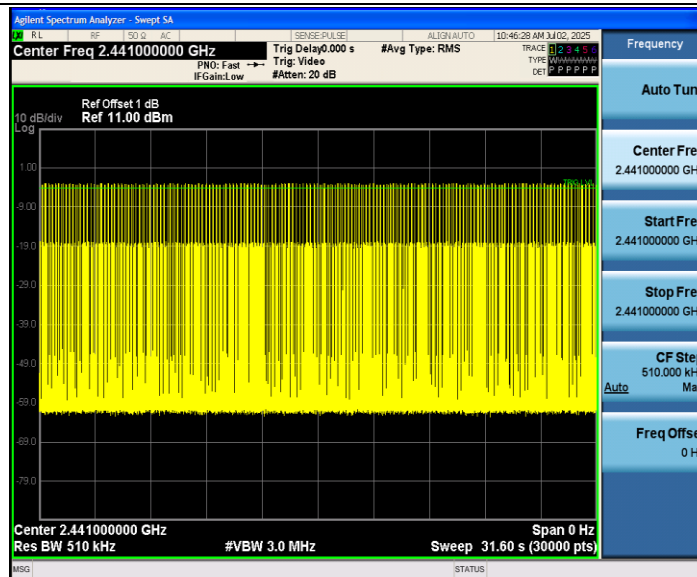
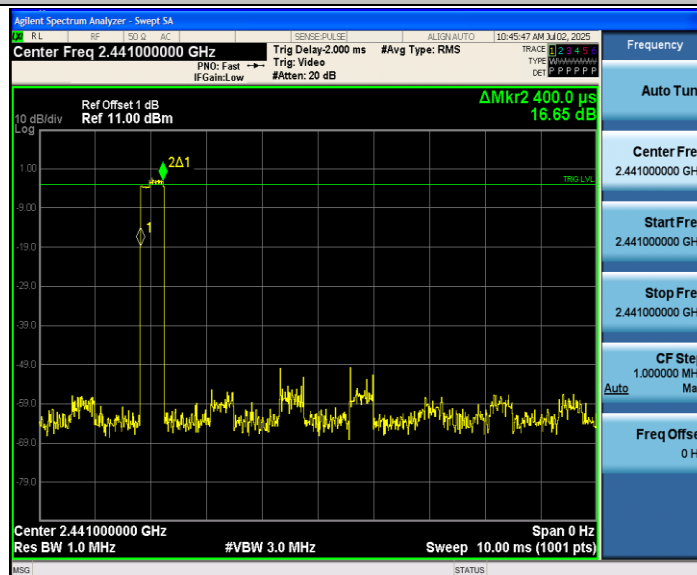


DH5_Ant1_Hop

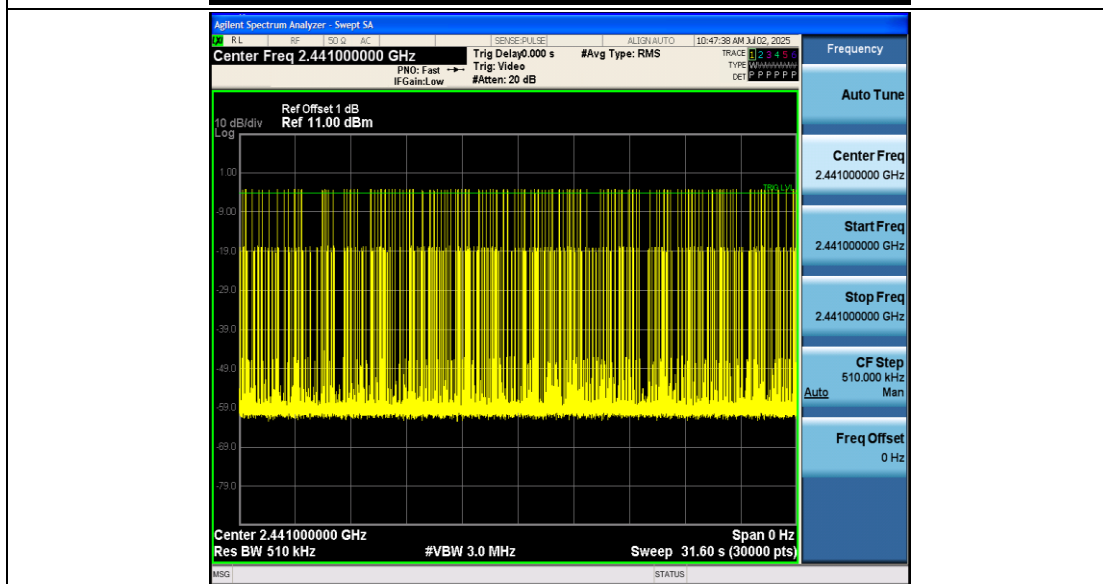
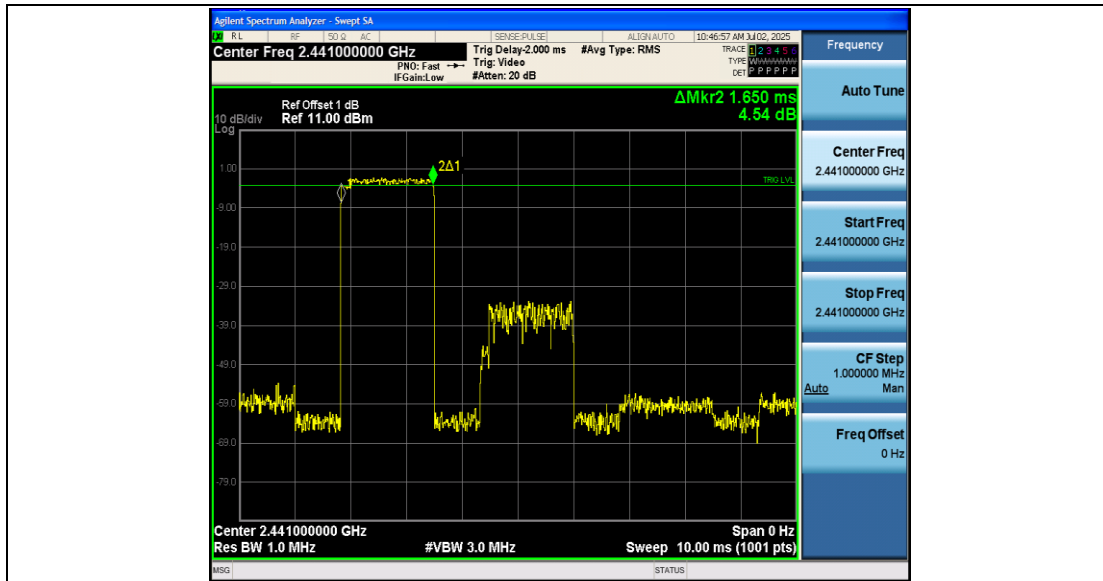




2DH1_Ant1_Hop

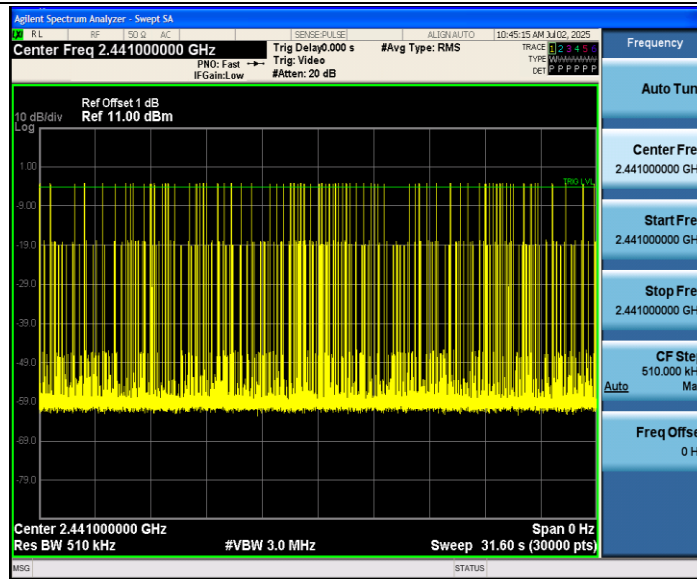


2DH3_Ant1_Hop

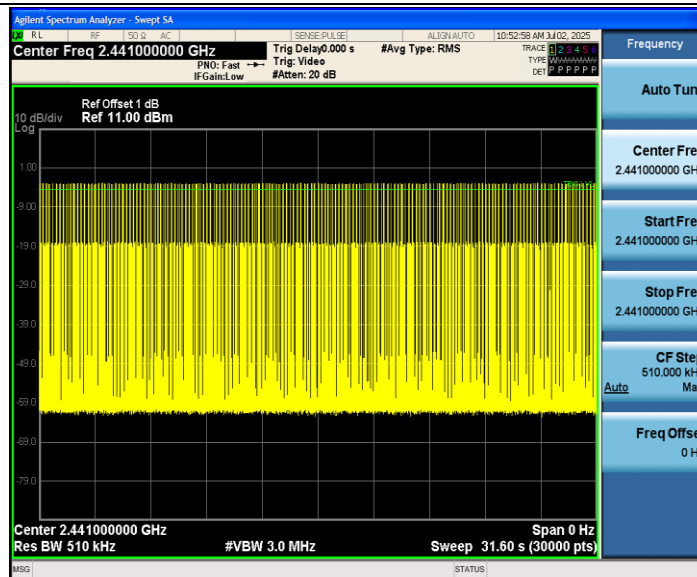
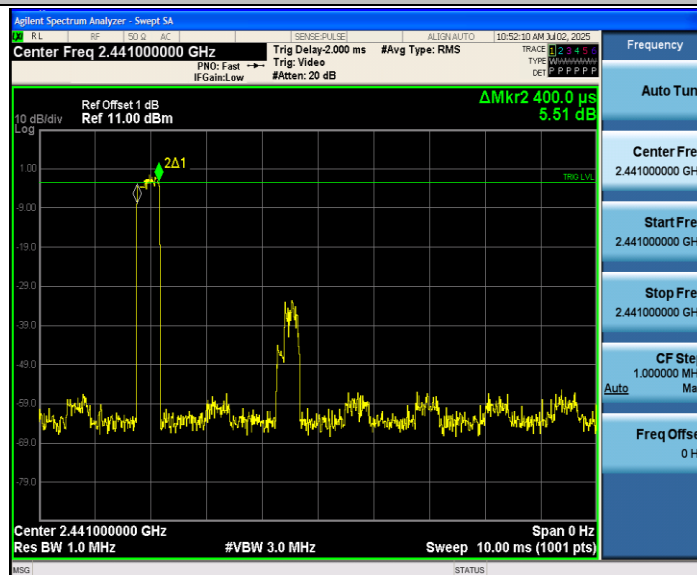


2DH5_Ant1_Hop

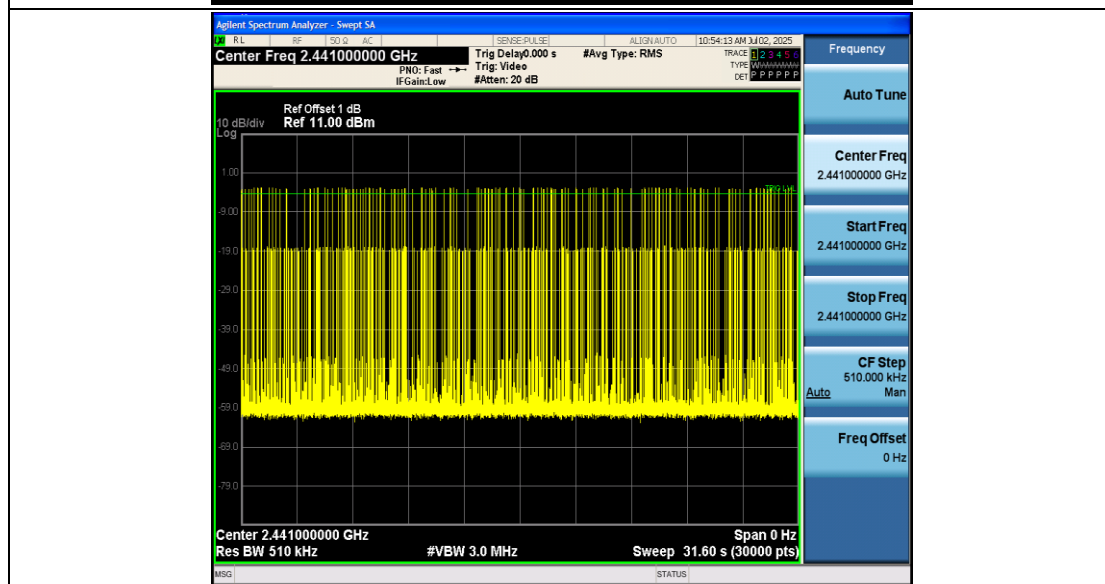
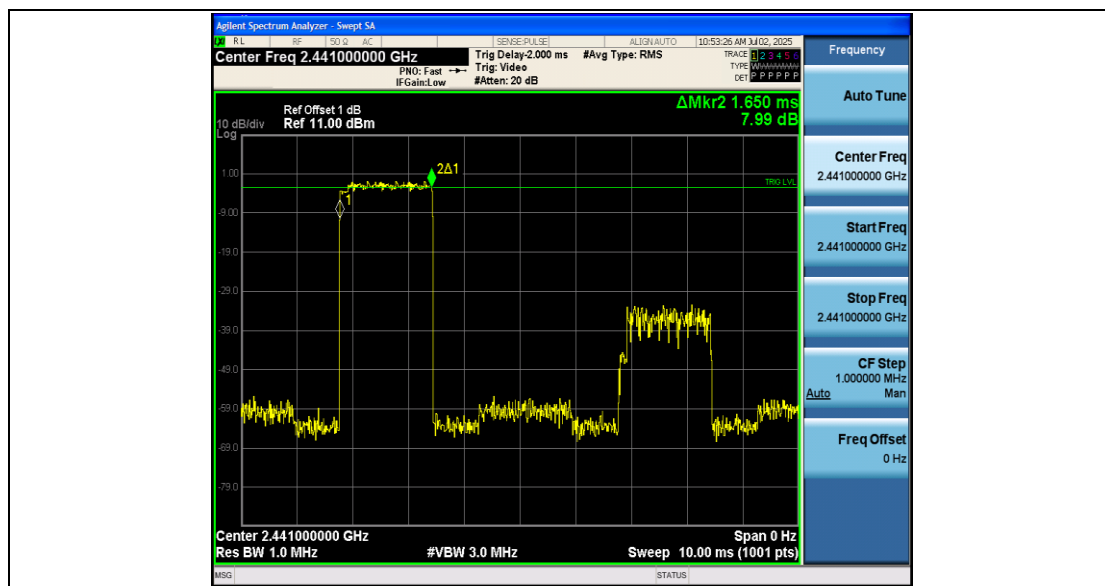




3DH1_Ant1_Hop

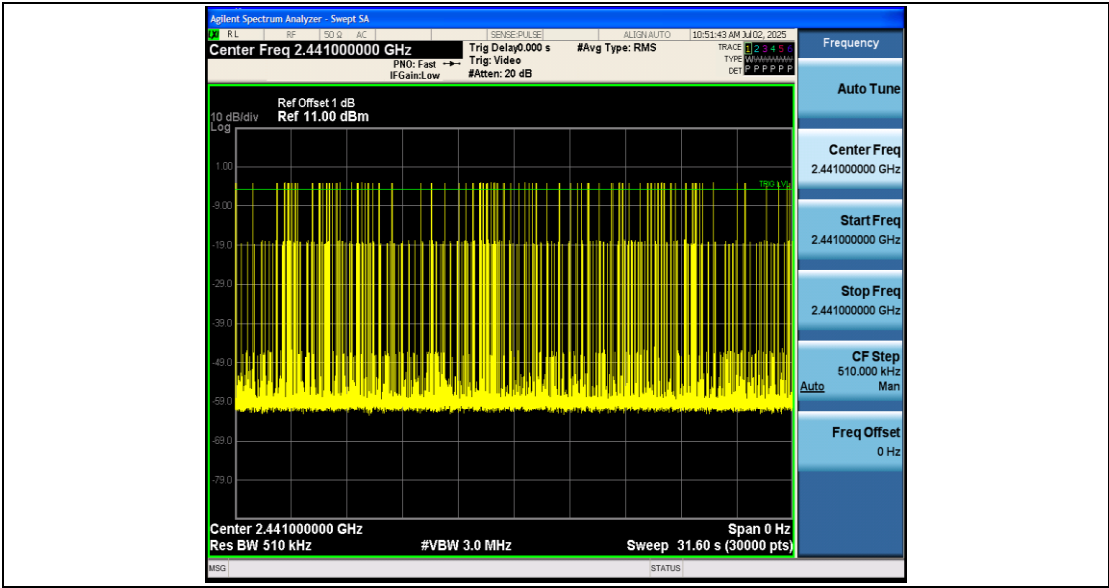


3DH3_Ant1_Hop



3DH5_Ant1_Hop



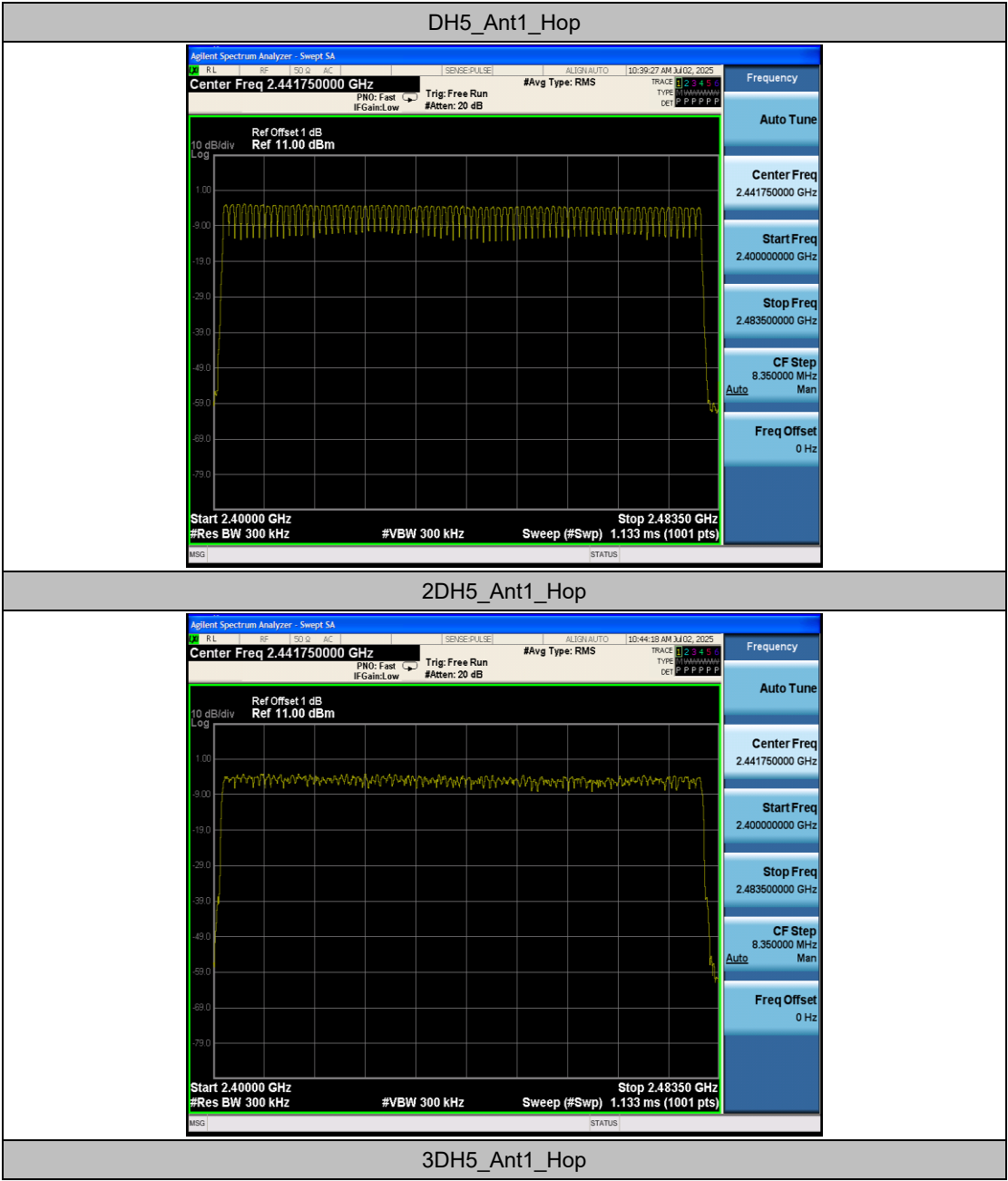


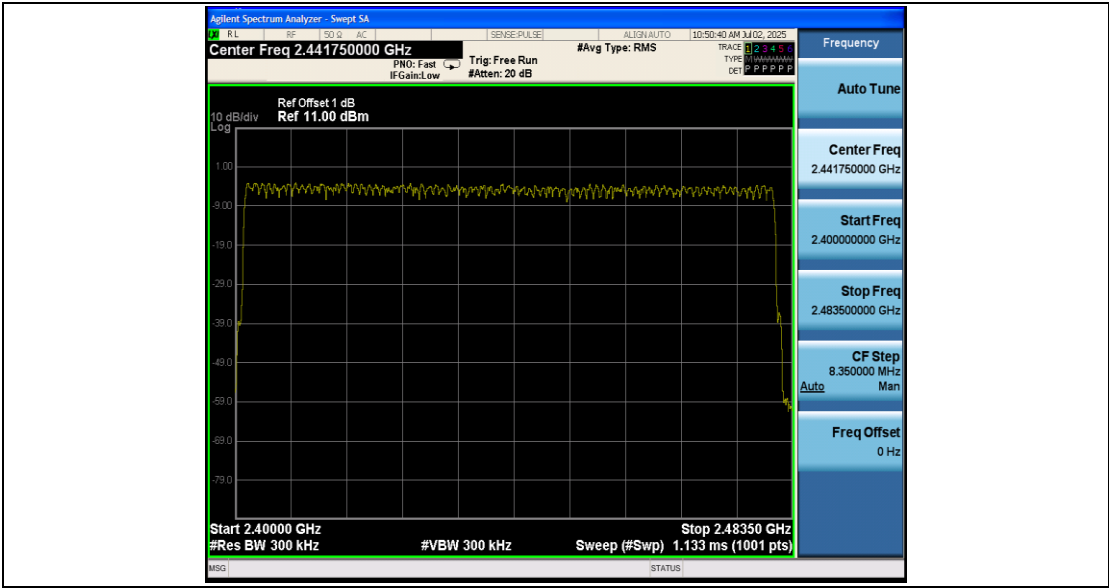
Appendix F: Number of hopping channels

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



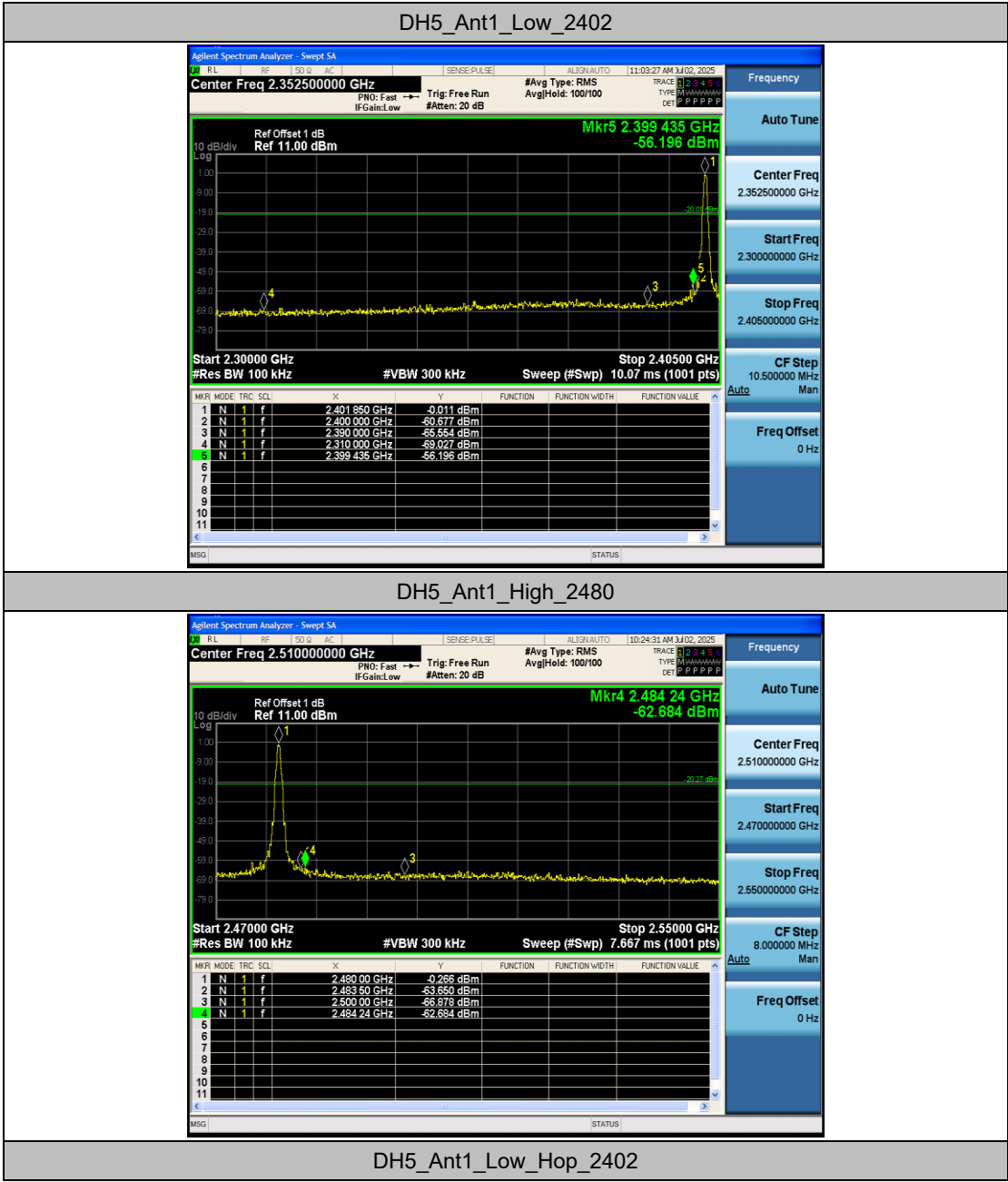


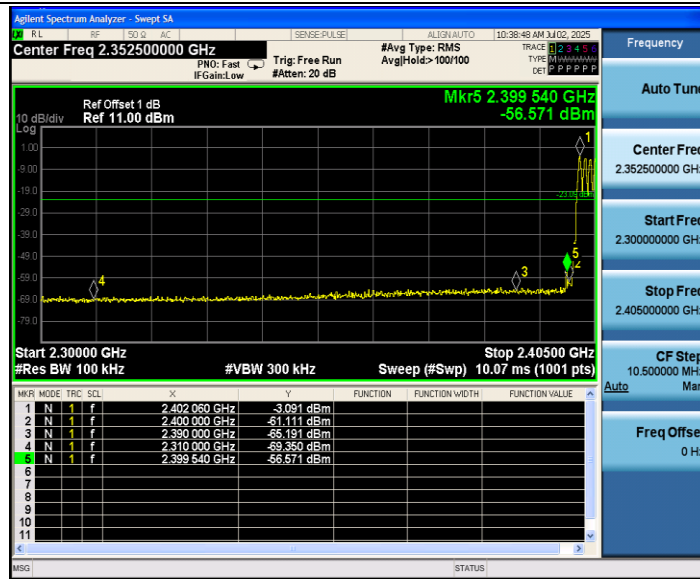
Appendix G: Band edge measurements

Test Result

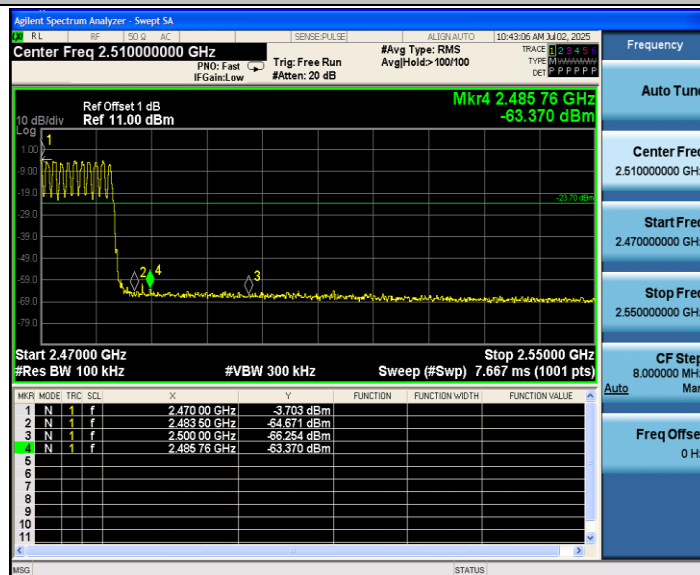
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.01	-56.2	≤-20.01	PASS
		High	2480	-0.27	-62.68	≤-20.27	PASS
		Low	Hop_2402	-3.09	-56.57	≤-23.09	PASS
		High	Hop_2480	-3.70	-63.37	≤-23.7	PASS
2DH5	Ant1	Low	2402	-3.46	-59.38	≤-23.46	PASS
		High	2480	-4.28	-63.95	≤-24.28	PASS
		Low	Hop_2402	-4.44	-62.6	≤-24.44	PASS
		High	Hop_2480	-5.02	-63.96	≤-25.02	PASS
3DH5	Ant1	Low	2402	-3.57	-59.82	≤-23.57	PASS
		High	2480	-4.30	-63.49	≤-24.3	PASS
		Low	Hop_2402	-3.17	-60.58	≤-23.17	PASS
		High	Hop_2480	-4.14	-63.91	≤-24.14	PASS

Test Graphs

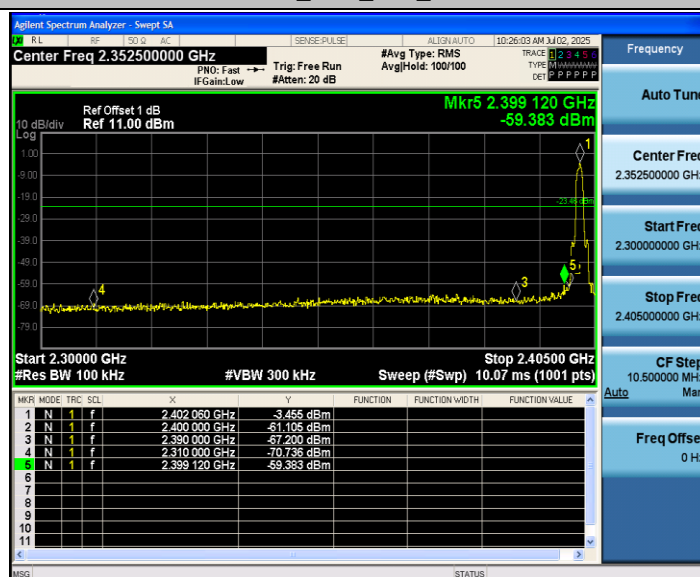




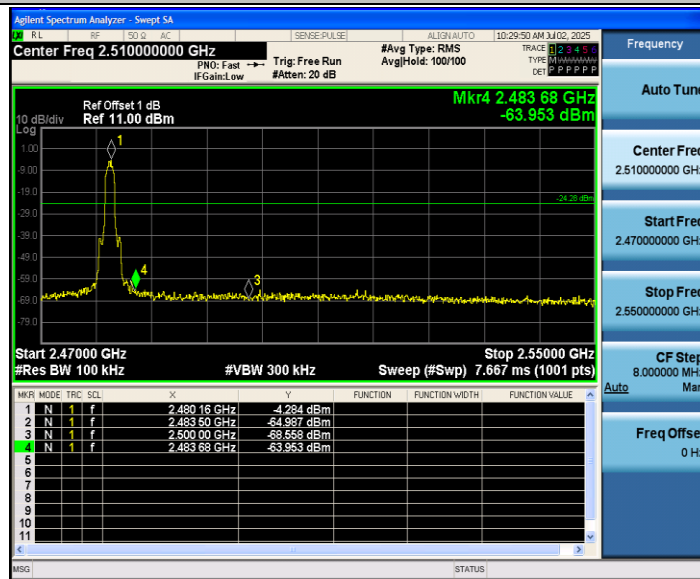
DH5_Ant1_High_Hop_2480



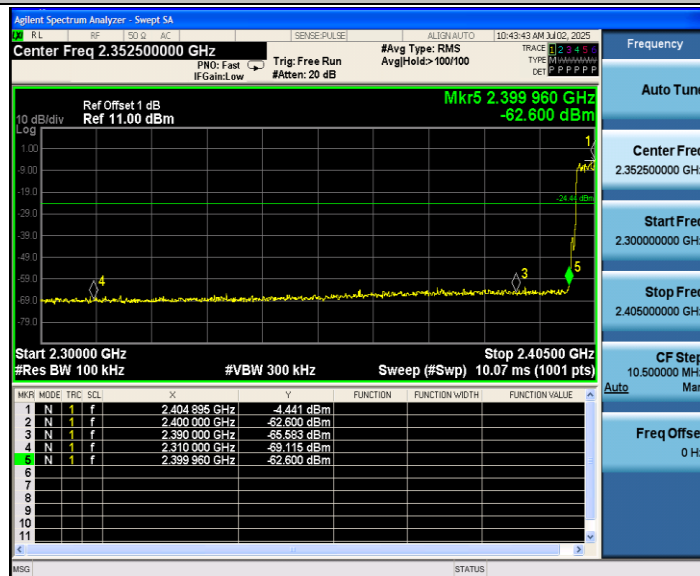
2DH5_Ant1_Low_2402



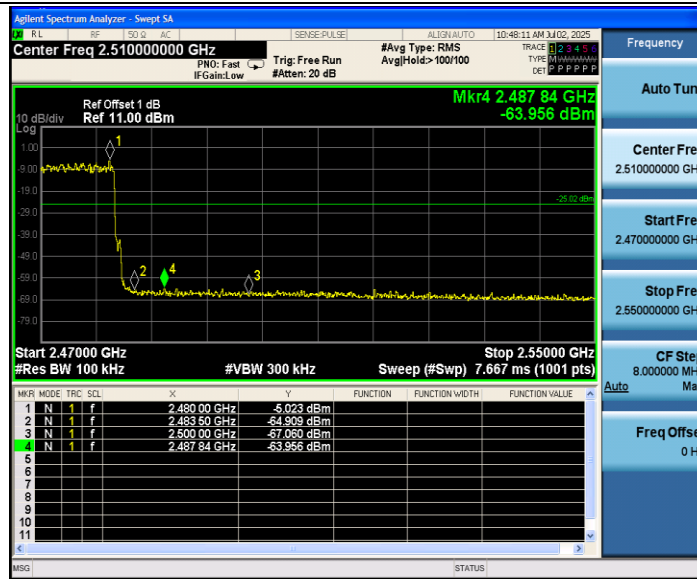
2DH5_Ant1_High_2480



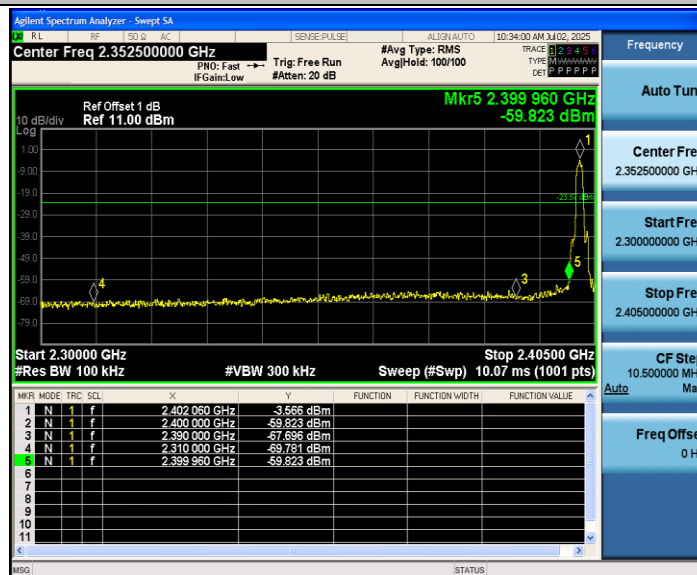
2DH5_Ant1_Low_Hop_2402



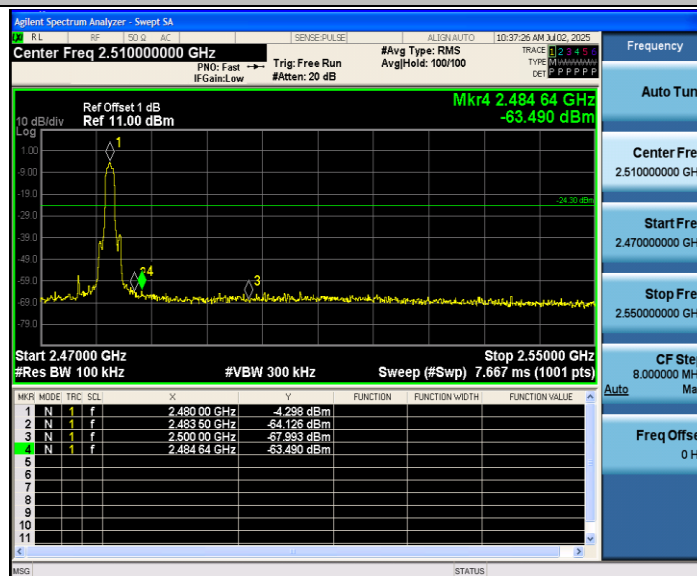
2DH5_Ant1_High_Hop_2480



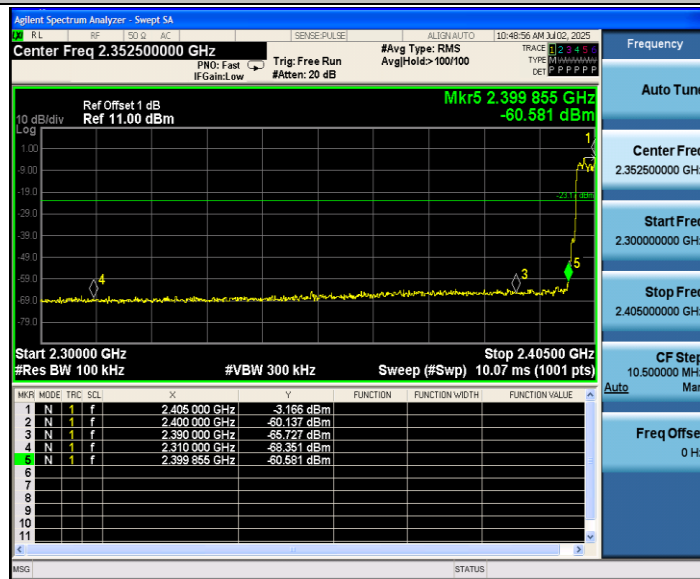
3DH5_Ant1_Low_2402



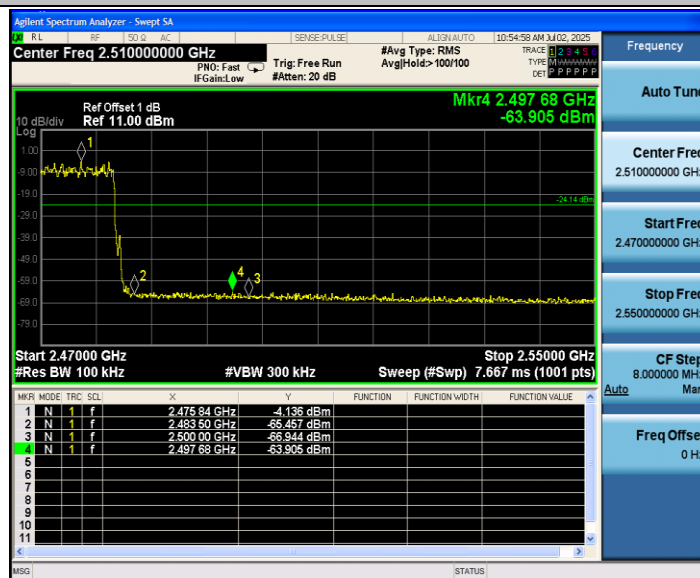
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

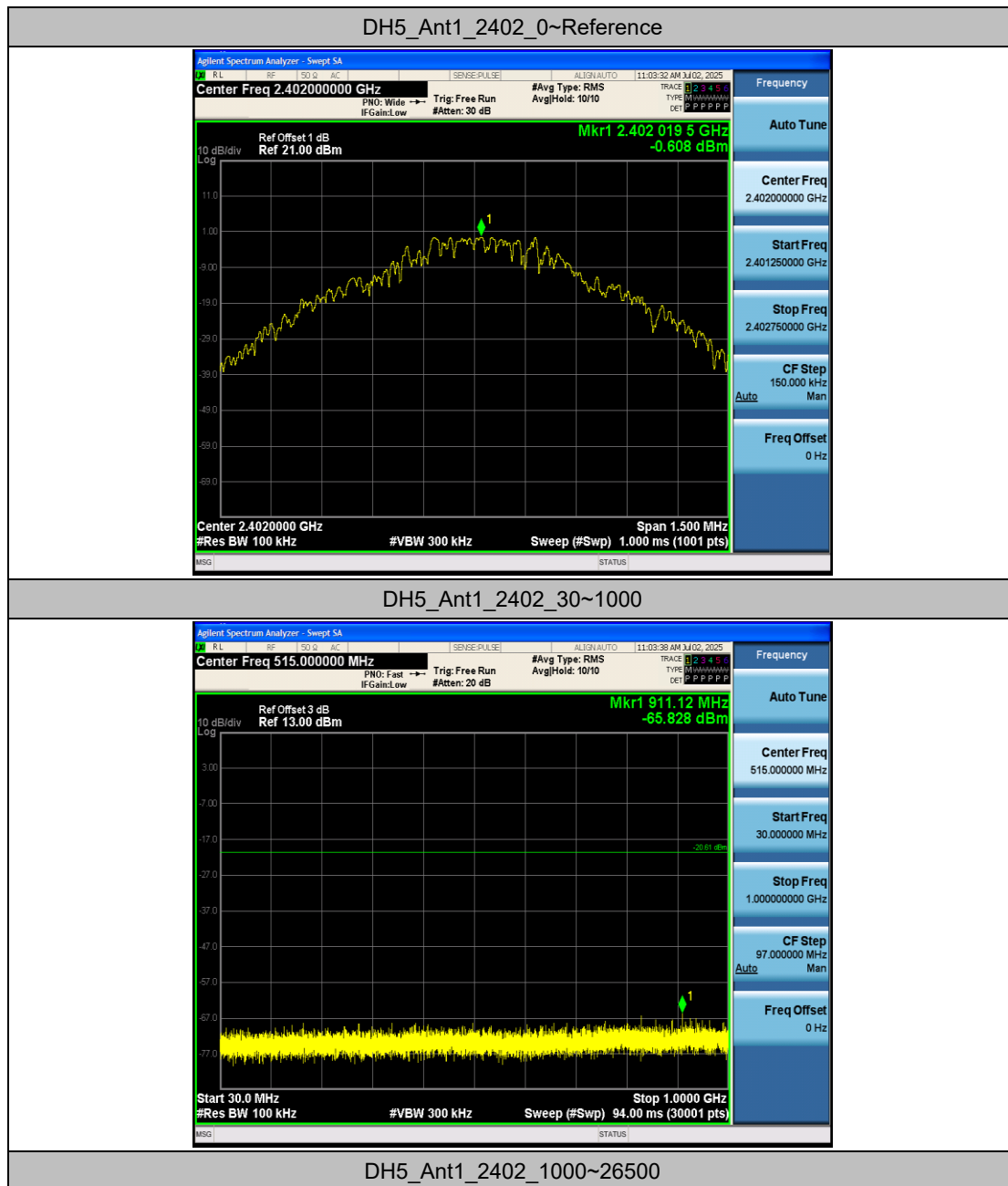


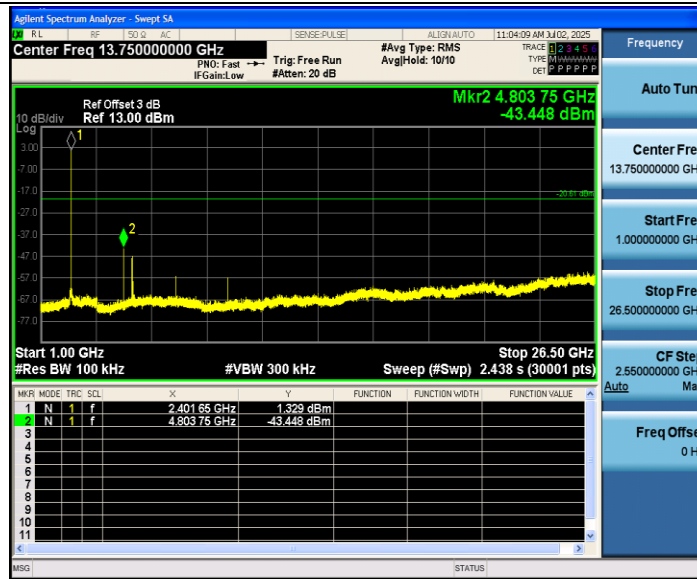
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-65.83	≤-20.61	PASS
			1000~26500	-0.61	-43.45	≤-20.61	PASS
		2441	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-67.66	≤-21.11	PASS
			1000~26500	-1.11	-43.63	≤-21.11	PASS
		2480	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-67.19	≤-21.63	PASS
			1000~26500	-1.63	-42.44	≤-21.63	PASS
2DH5	Ant1	2402	Reference	-4.84	-4.84	---	PASS
			30~1000	-4.84	-60.57	≤-24.84	PASS
			1000~26500	-4.84	-48.57	≤-24.84	PASS
		2441	Reference	-6.47	-6.47	---	PASS
			30~1000	-6.47	-67.07	≤-26.47	PASS
			1000~26500	-6.47	-49.95	≤-26.47	PASS
		2480	Reference	-4.84	-4.84	---	PASS
			30~1000	-4.84	-66.91	≤-24.84	PASS
			1000~26500	-4.84	-46.78	≤-24.84	PASS
3DH5	Ant1	2402	Reference	-4.47	-4.47	---	PASS
			30~1000	-4.47	-66.71	≤-24.47	PASS
			1000~26500	-4.47	-48.78	≤-24.47	PASS
		2441	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-67.26	≤-24.17	PASS
			1000~26500	-4.17	-48.02	≤-24.17	PASS
		2480	Reference	-7.01	-7.01	---	PASS
			30~1000	-7.01	-66.66	≤-27.01	PASS
			1000~26500	-7.01	-46.68	≤-27.01	PASS

Test Graphs

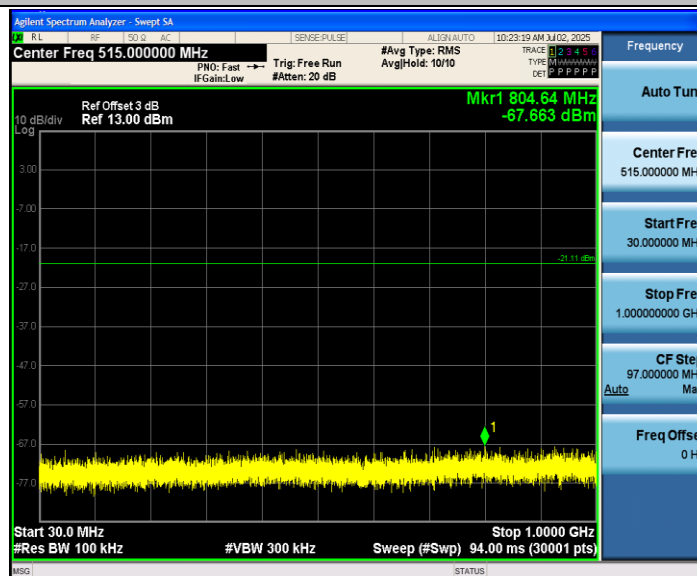




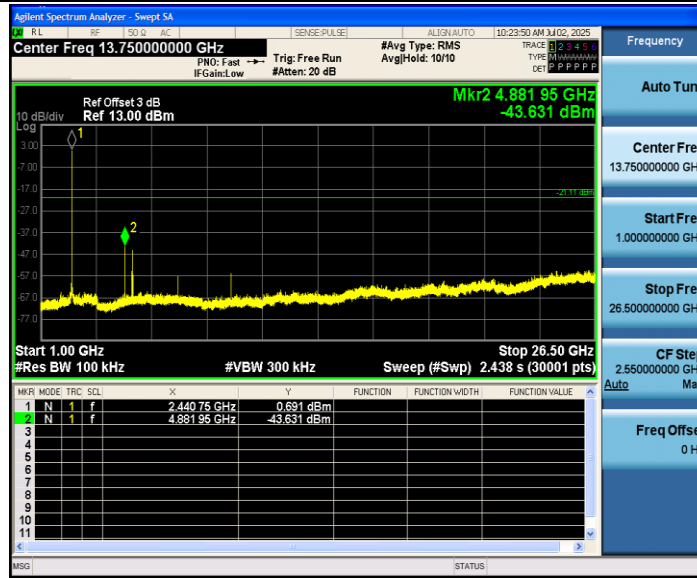
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000