

FCC Appendix RF Test Data for BT

FCC ID : 2BKV5-SC-01

Company : Shenzhen Top Smart Technology Co., Ltd

EUT : Bluetooth speaker camera

Model Number : SC-01

Report No. : CTA26072204301

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	0.939	2401.547	2402.486	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.957	2479.547	2480.504	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.341	2440.337	2441.678	---	---
		2480	1.320	2479.352	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

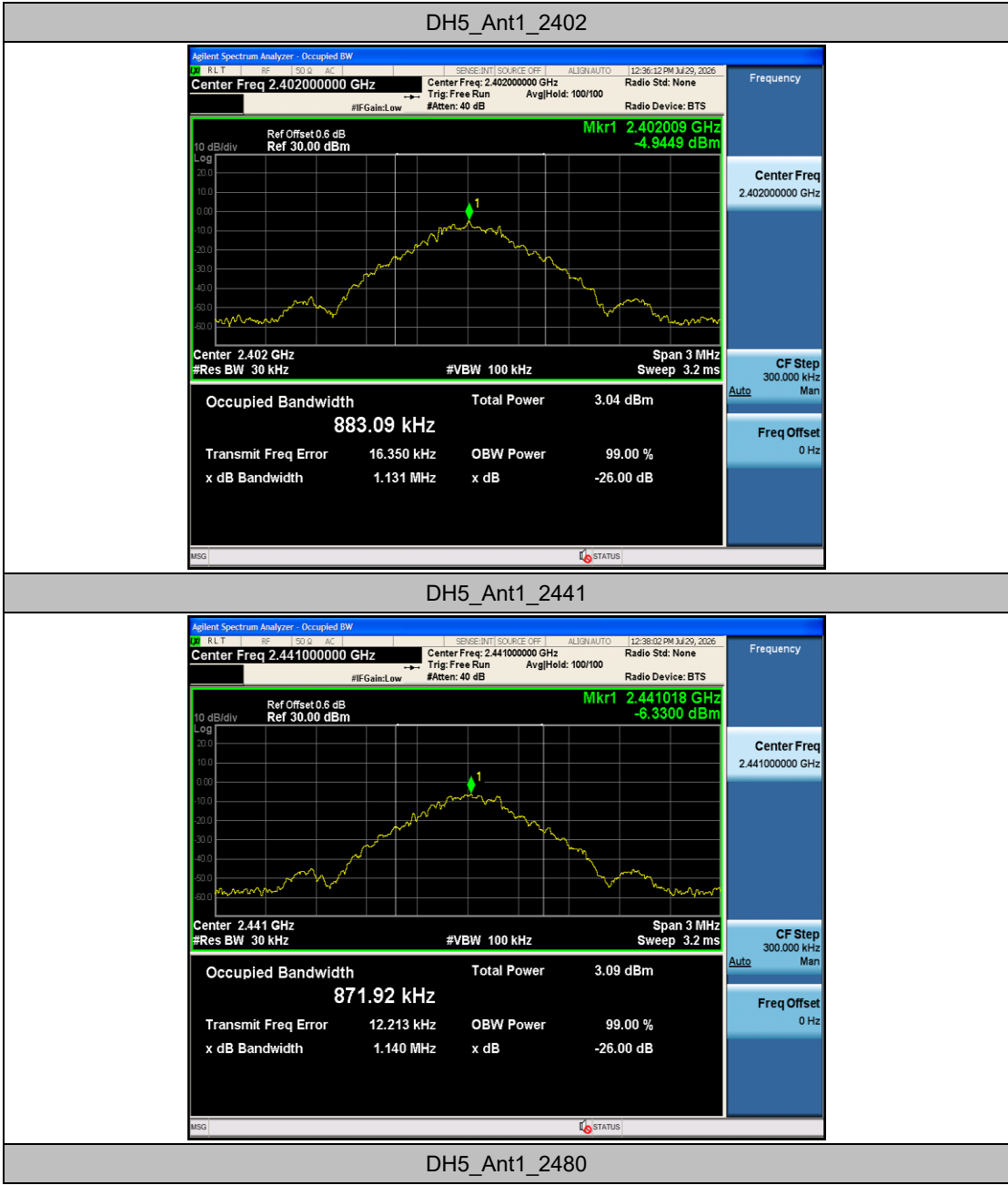


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88309	2401.5748	2402.4579	---	---
		2441	0.87192	2440.5763	2441.4482	---	---
		2480	0.86799	2479.5804	2480.4484	---	---
2DH5	Ant1	2402	1.1796	2401.4207	2402.6003	---	---
		2441	1.1819	2440.4203	2441.6022	---	---
		2480	1.1928	2479.4154	2480.6082	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



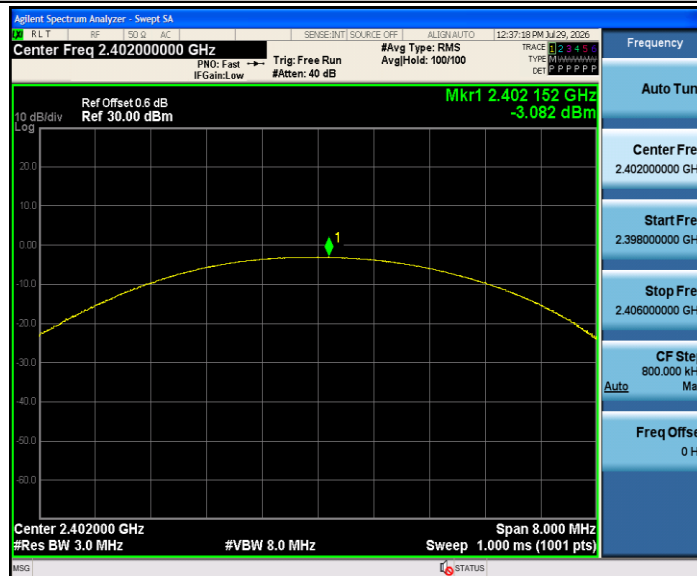
Appendix C: Maximum conducted output power

Test Result Peak

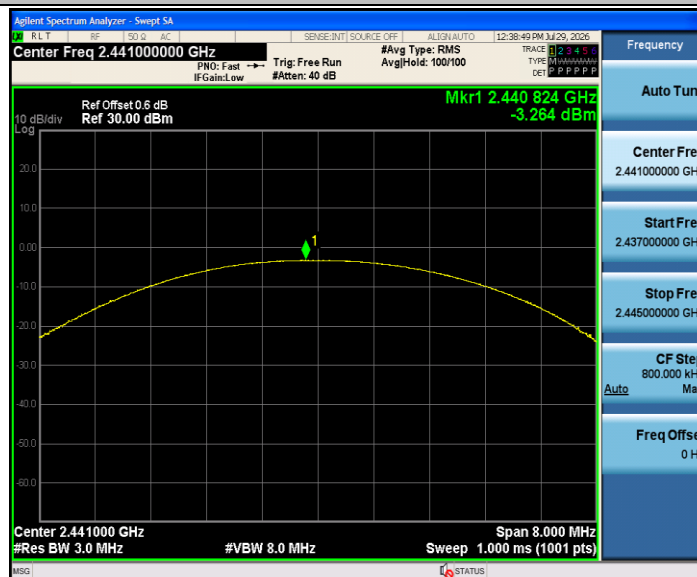
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.08	≤20.97	PASS
		2441	-3.26	≤20.97	PASS
		2480	-3.60	≤20.97	PASS
2DH5	Ant1	2402	-0.43	≤20.97	PASS
		2441	-0.73	≤20.97	PASS
		2480	-1.08	≤20.97	PASS

Test Graphs

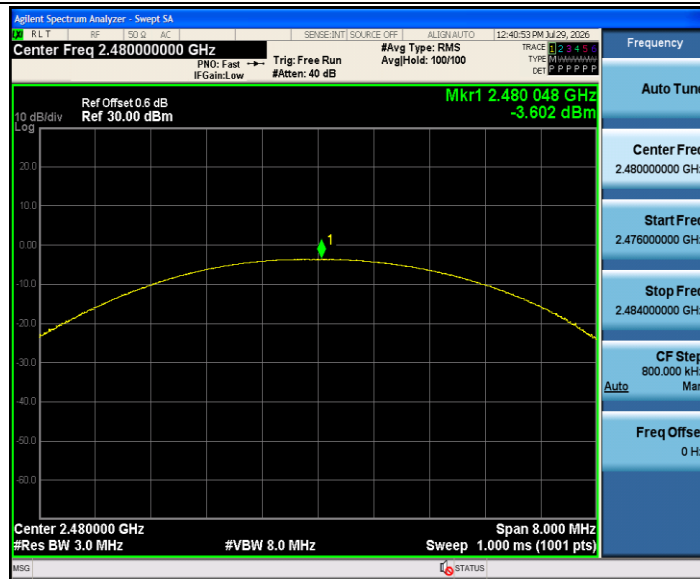
DH5_Ant1_2402



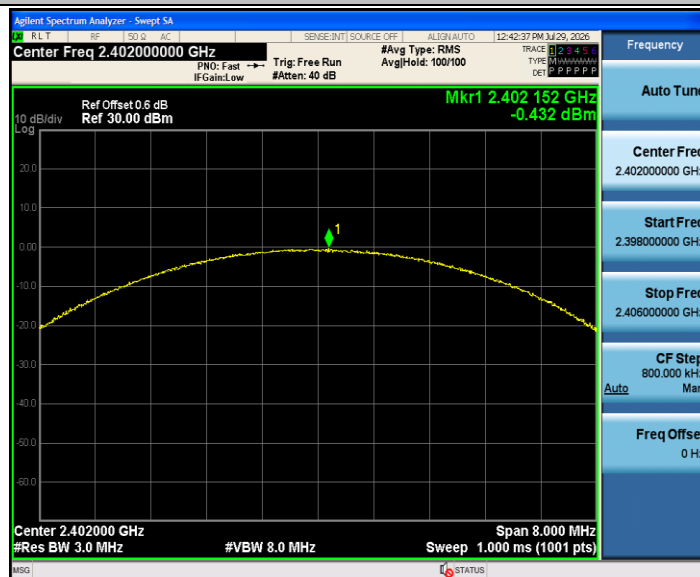
DH5_Ant1_2441



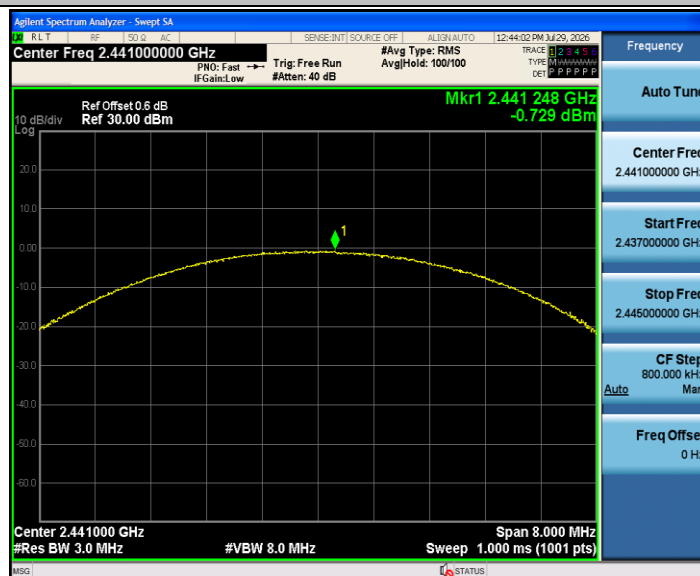
DH5_Ant1_2480



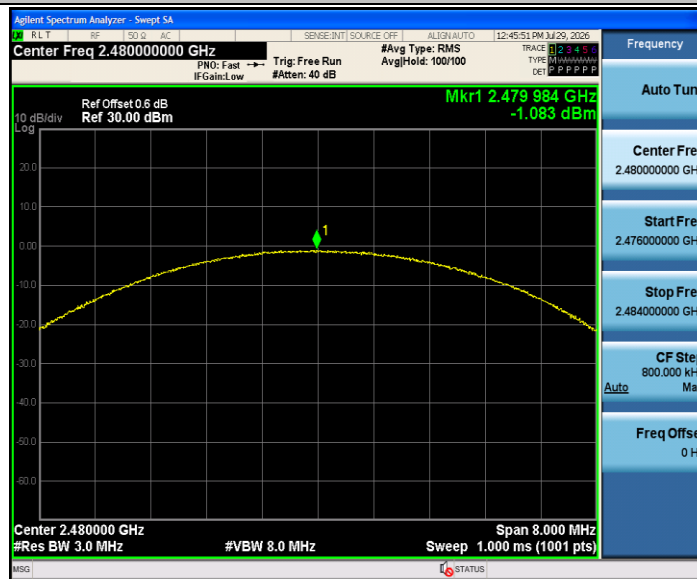
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

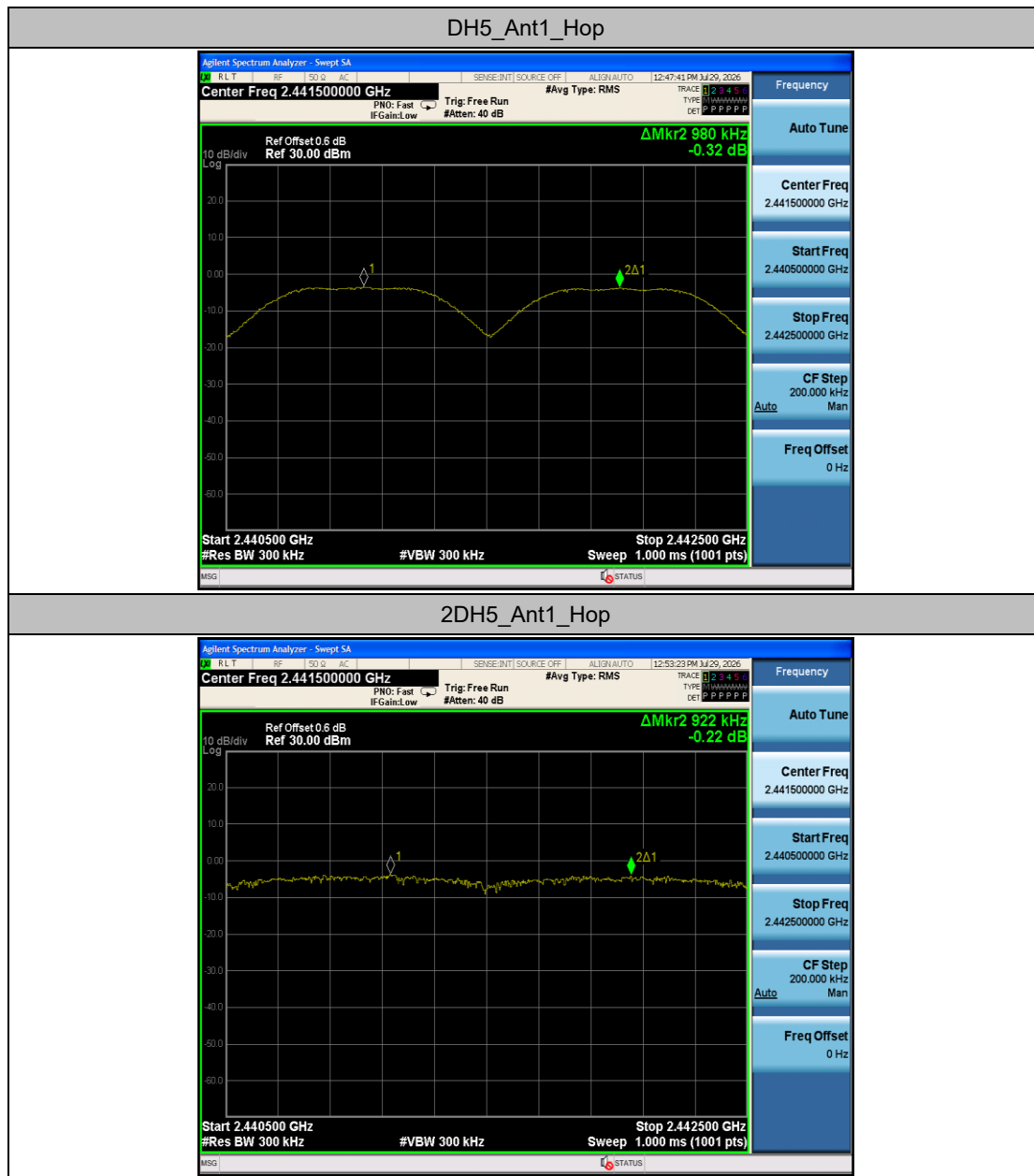


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.98	≥ 0.957	PASS
2DH5	Ant1	Hop	0.922	≥ 0.894	PASS

Test Graphs

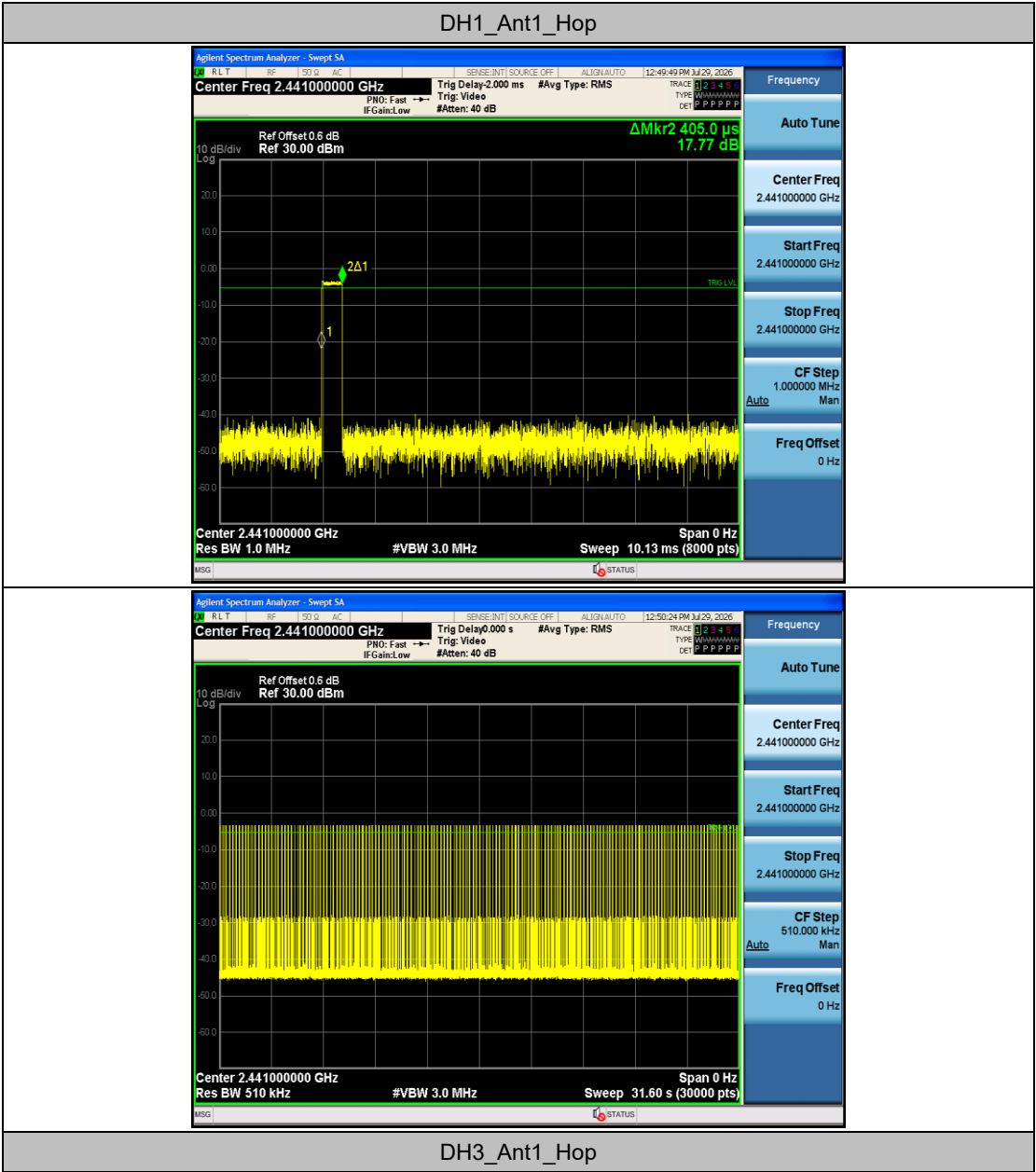


Appendix E: Time of occupancy

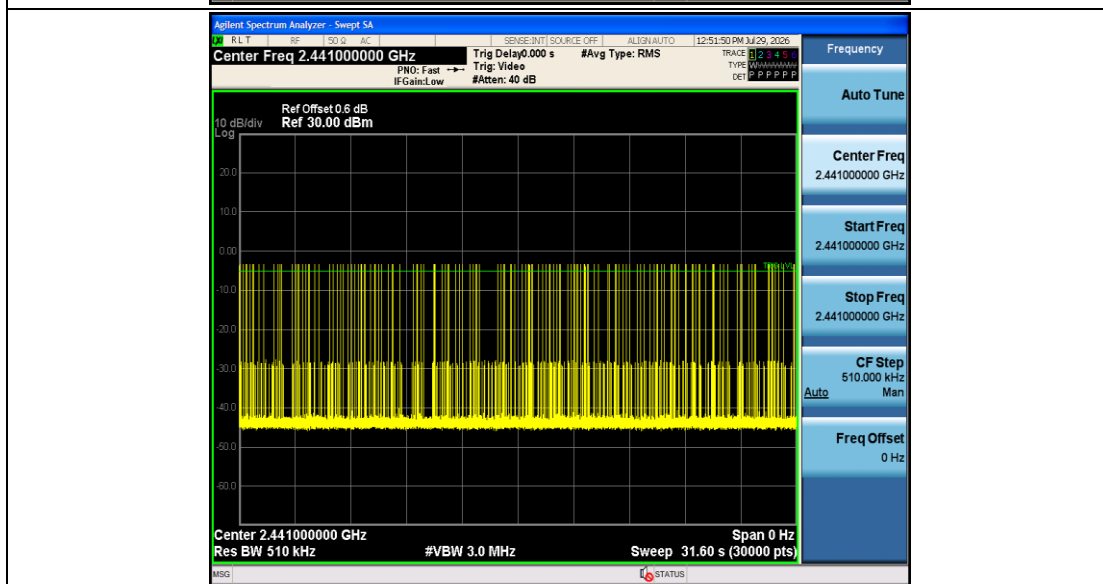
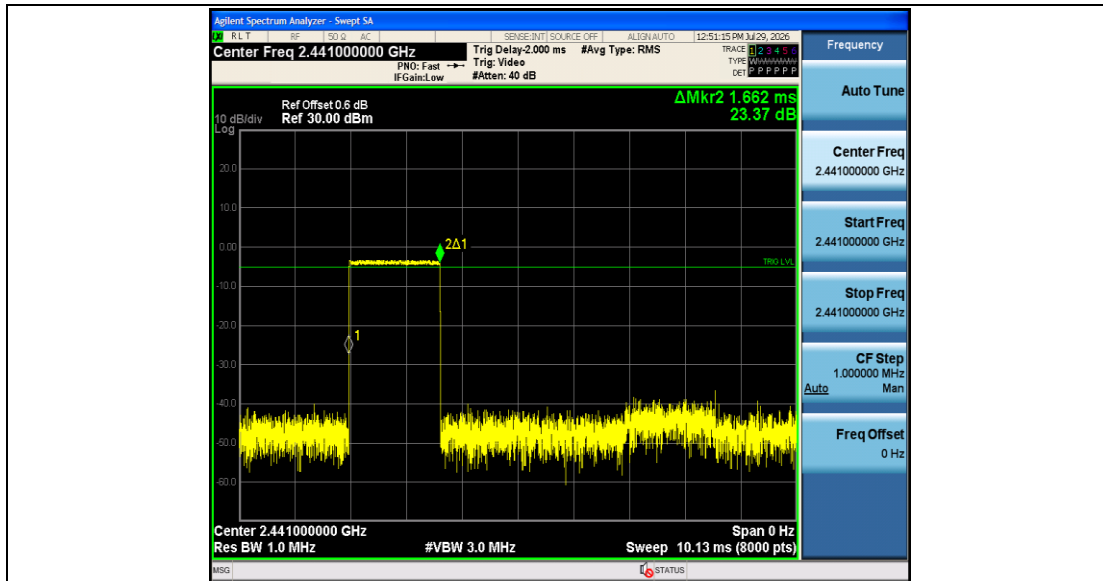
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	320	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	152	0.253	≤0.4	PASS
DH5	Ant1	Hop	2.910	100	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.415	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.667	167	0.278	≤0.4	PASS
2DH5	Ant1	Hop	2.915	116	0.338	≤0.4	PASS

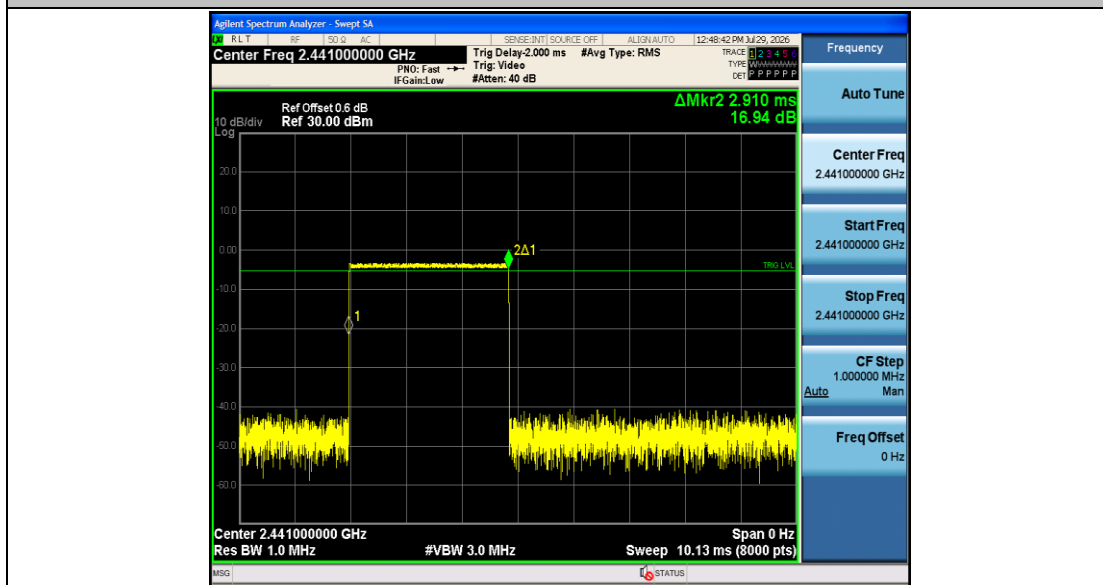
Test Graphs

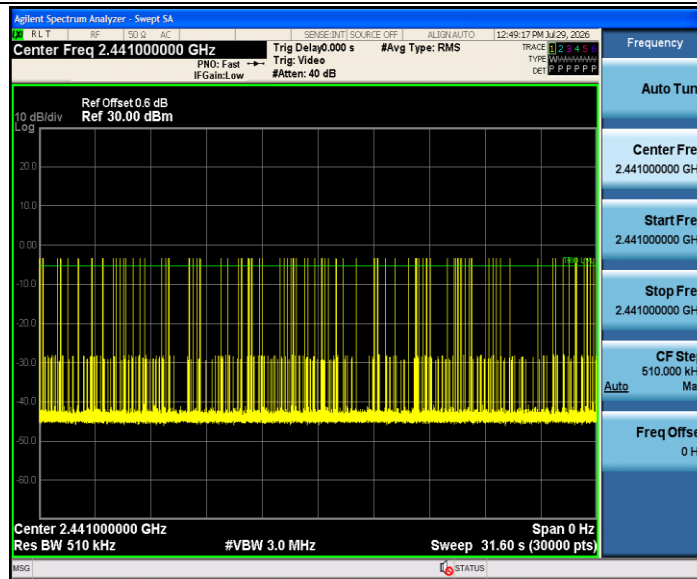


DH3_Ant1_Hop

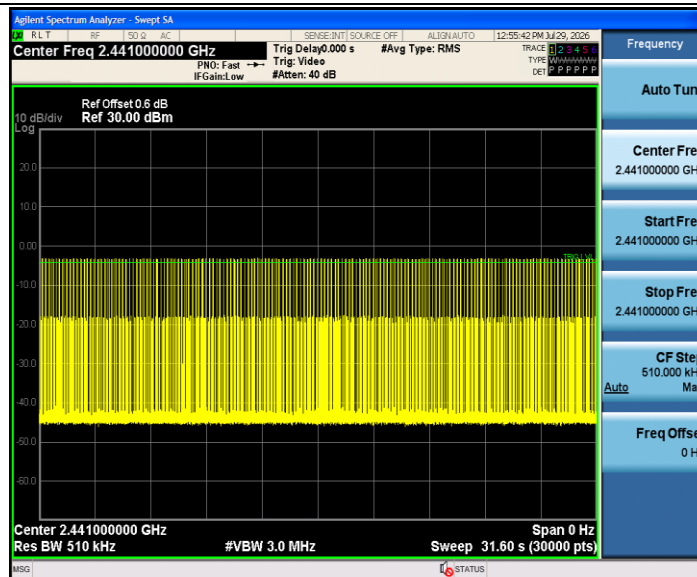
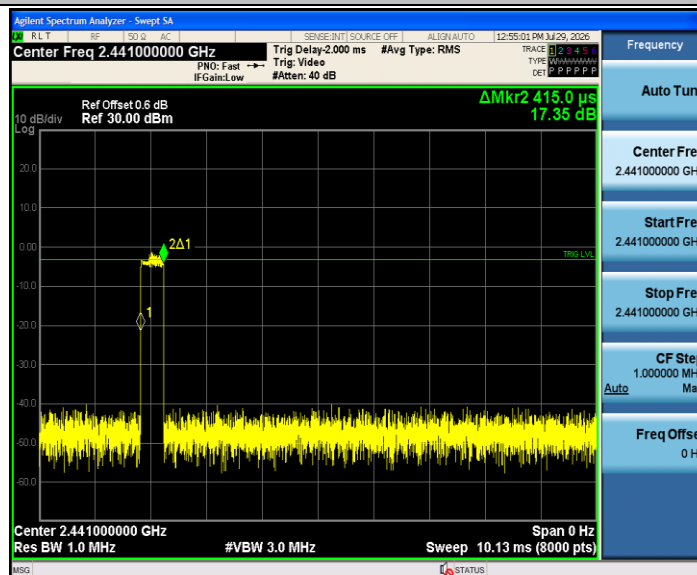


DH5_Ant1_Hop

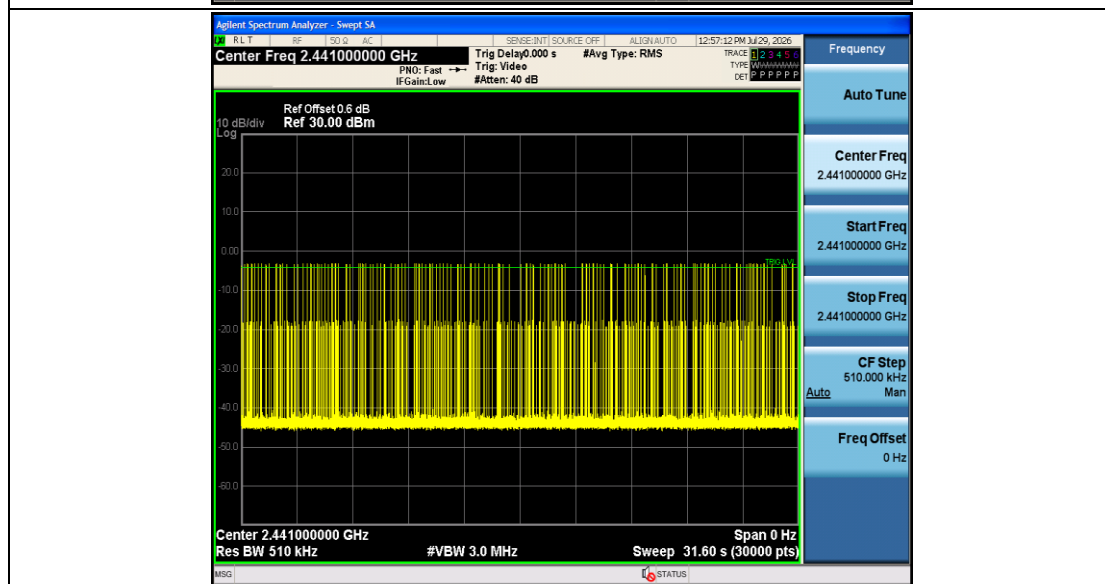
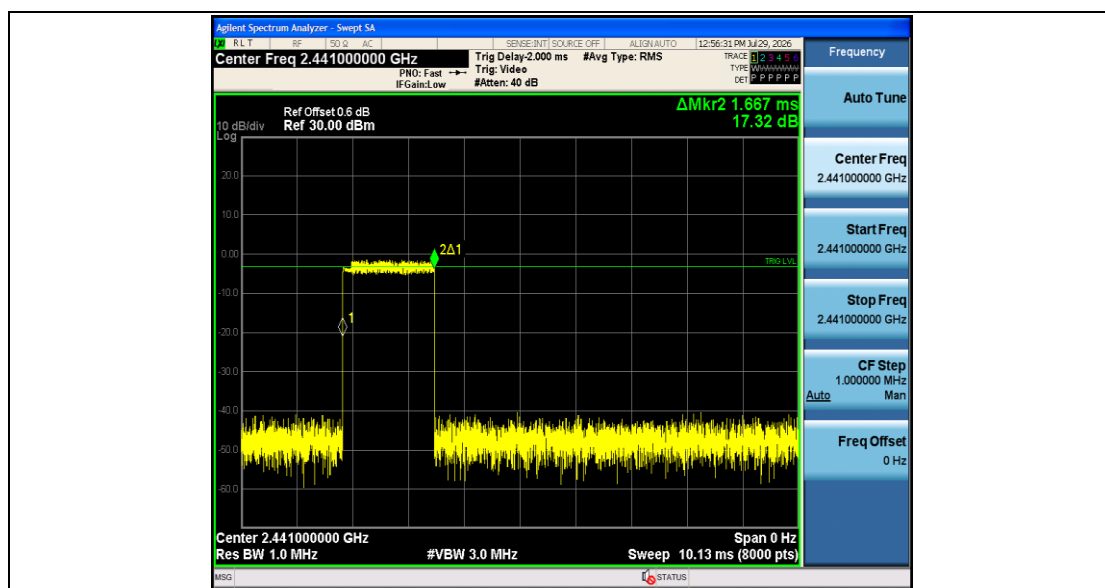




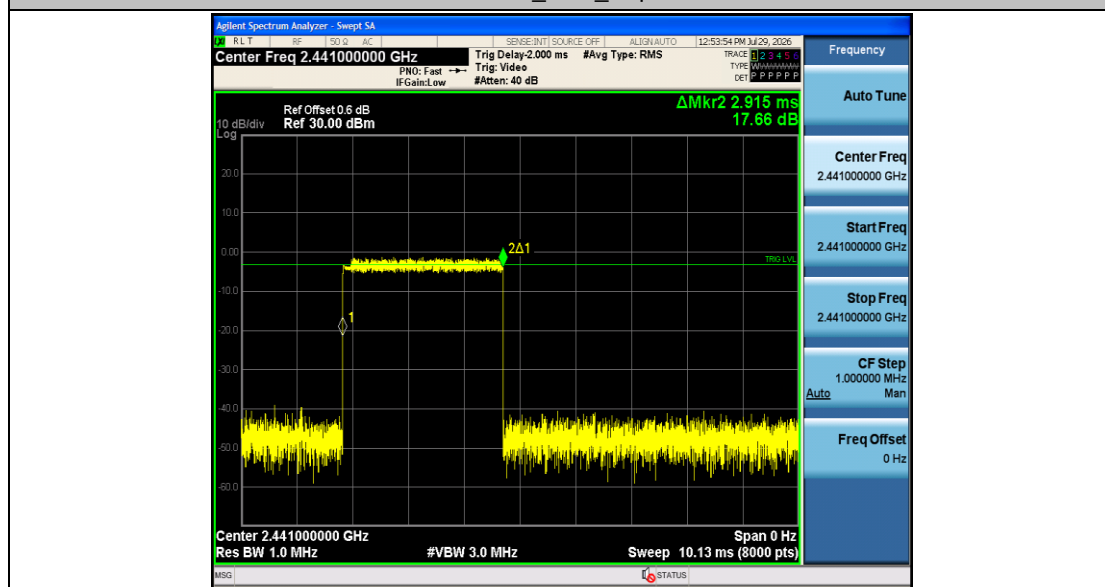
2DH1_Ant1_Hop

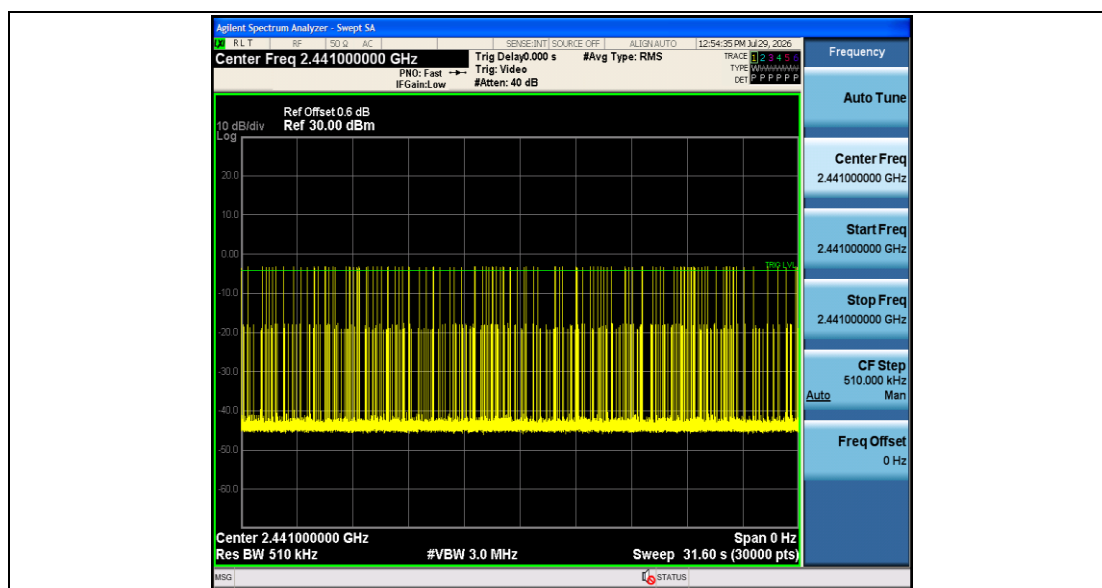


2DH3_Ant1_Hop



2DH5_Ant1_Hop



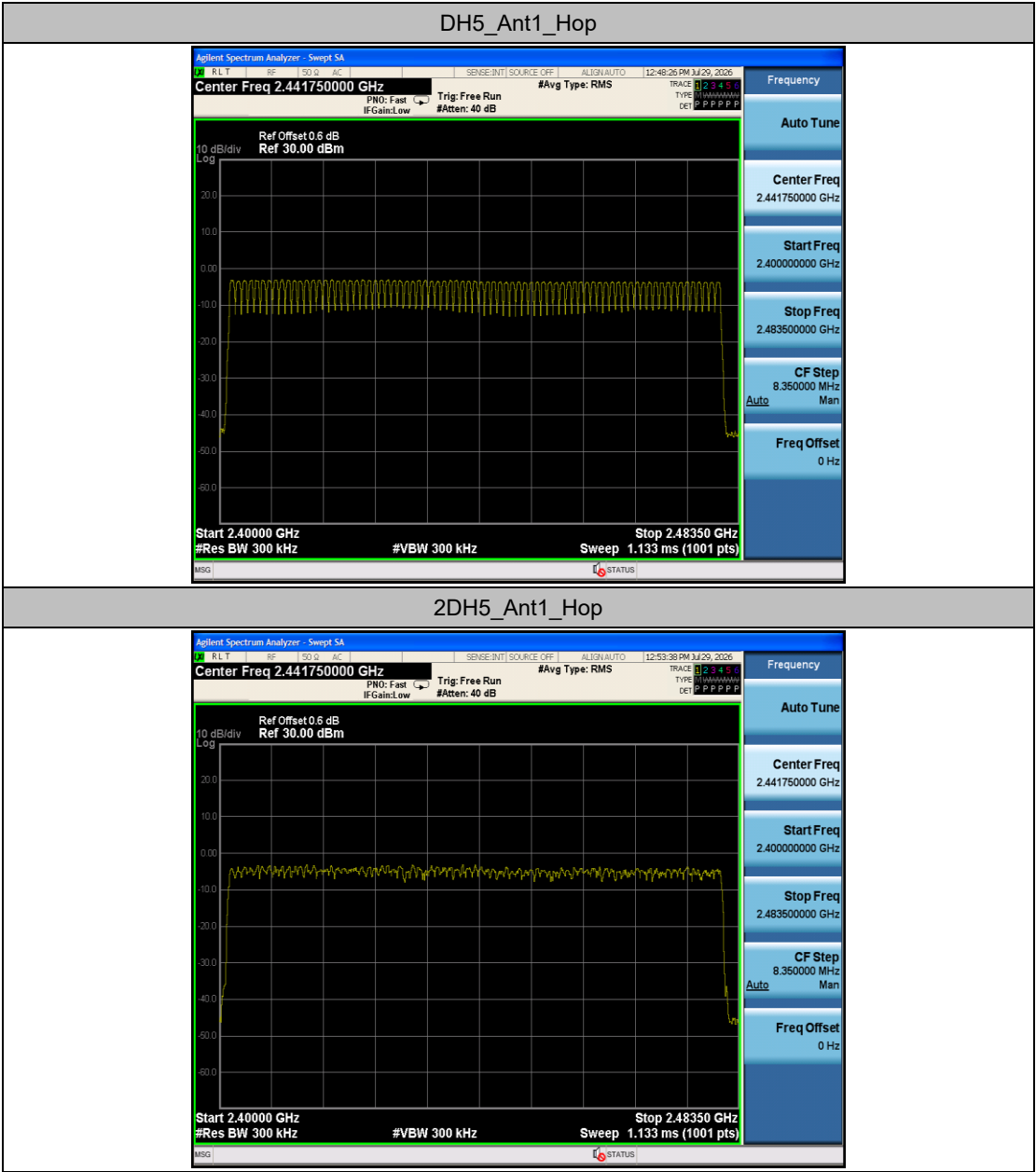


Appendix F: Number of hopping channels

Test Result

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

Test Graphs

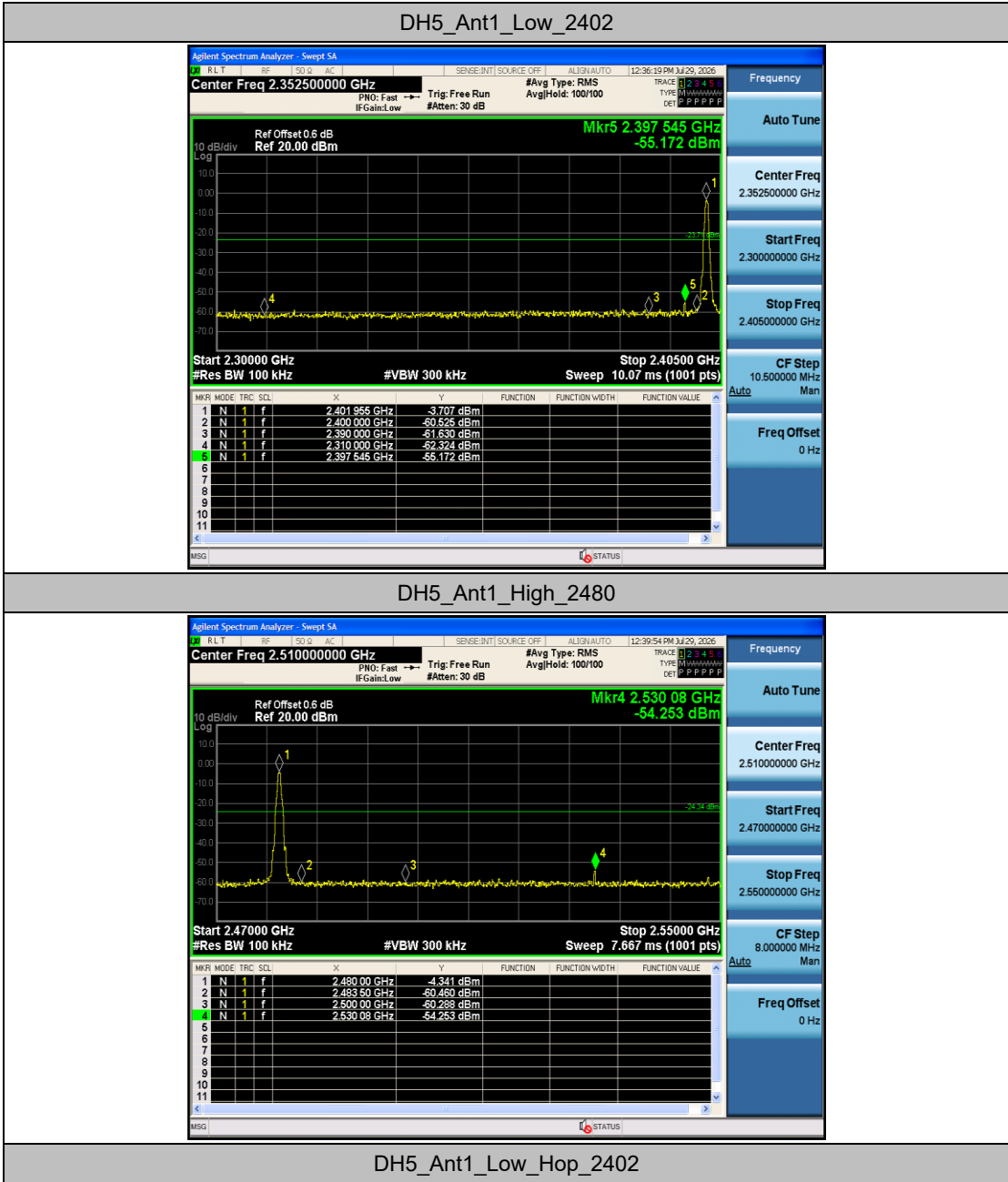


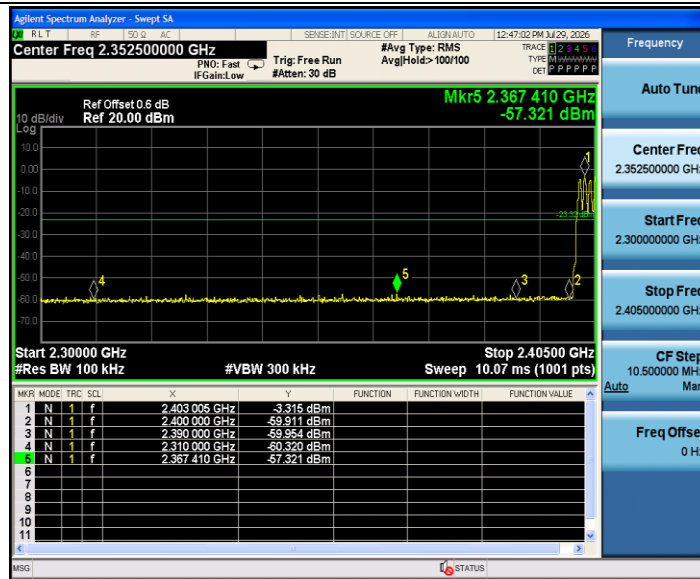
Appendix G: Band edge measurements

Test Result

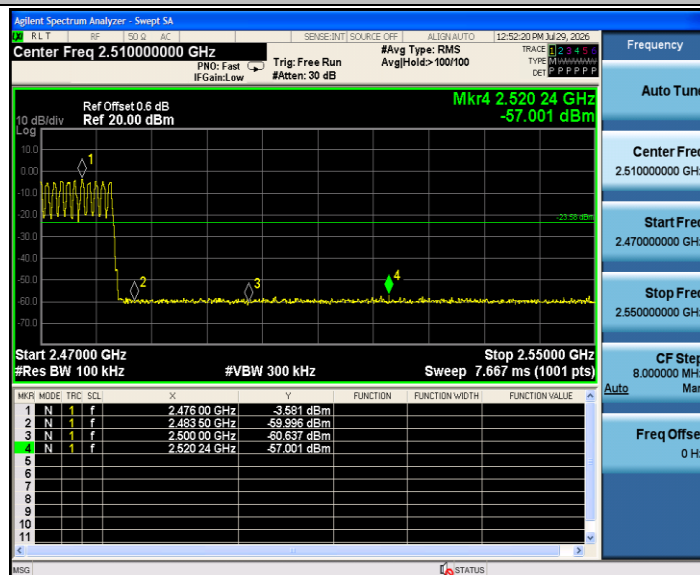
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.71	-55.17	≤ -23.71	PASS
		High	2480	-4.34	-54.25	≤ -24.34	PASS
		Low	Hop_2402	-3.32	-57.32	≤ -23.32	PASS
		High	Hop_2480	-3.58	-57	≤ -23.58	PASS
2DH5	Ant1	Low	2402	-3.38	-56.83	≤ -23.38	PASS
		High	2480	-5.46	-57.85	≤ -25.46	PASS
		Low	Hop_2402	-5.86	-57.01	≤ -25.86	PASS
		High	Hop_2480	-3.90	-46.49	≤ -23.9	PASS

Test Graphs

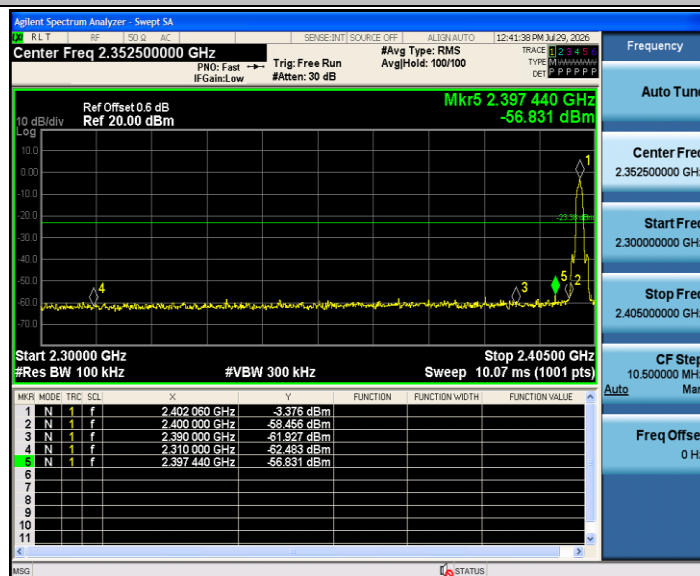




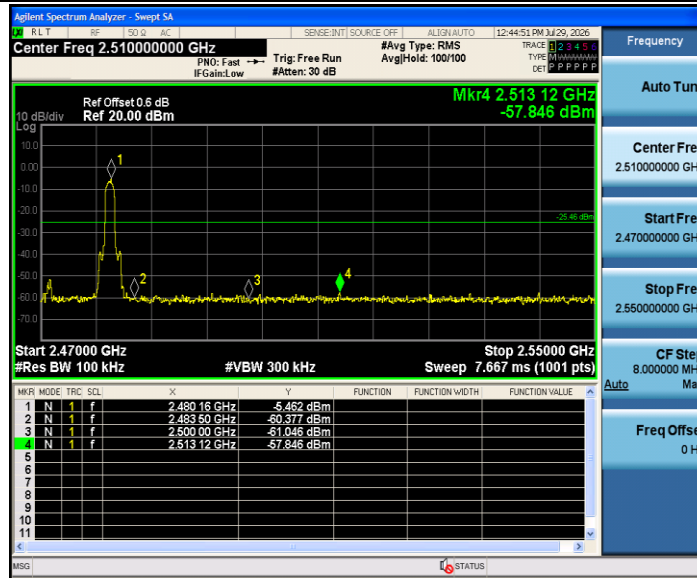
DH5_Ant1_High_Hop_2480



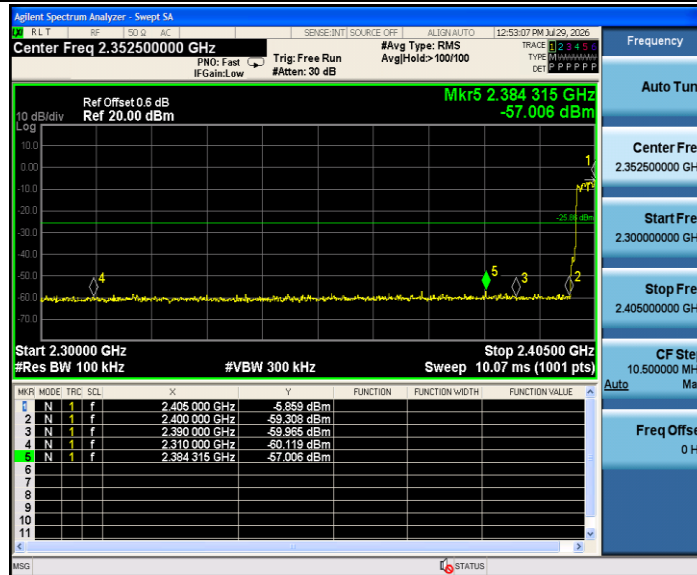
2DH5_Ant1_Low_2402



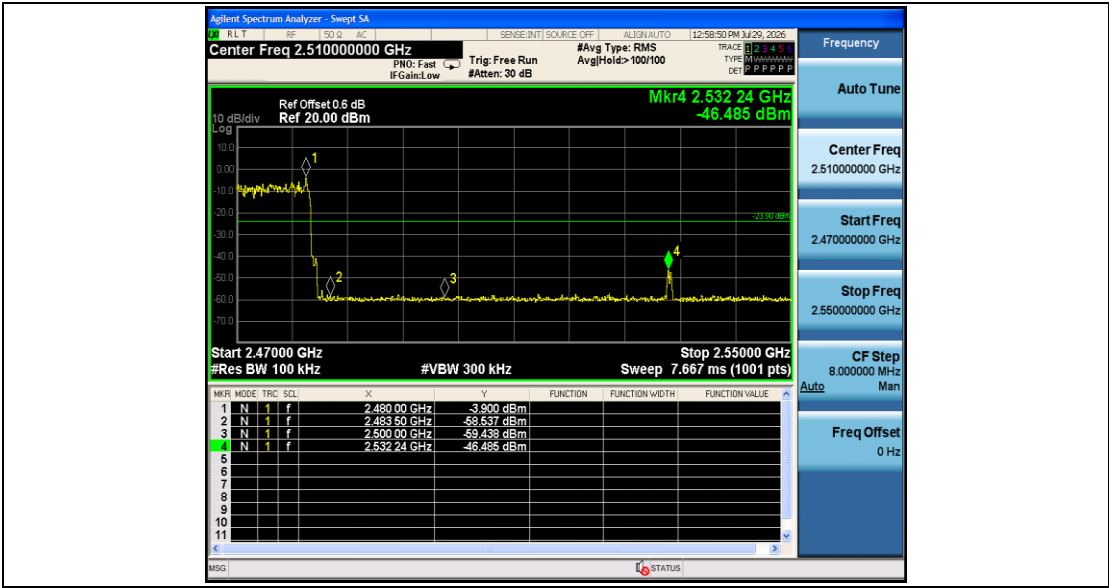
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

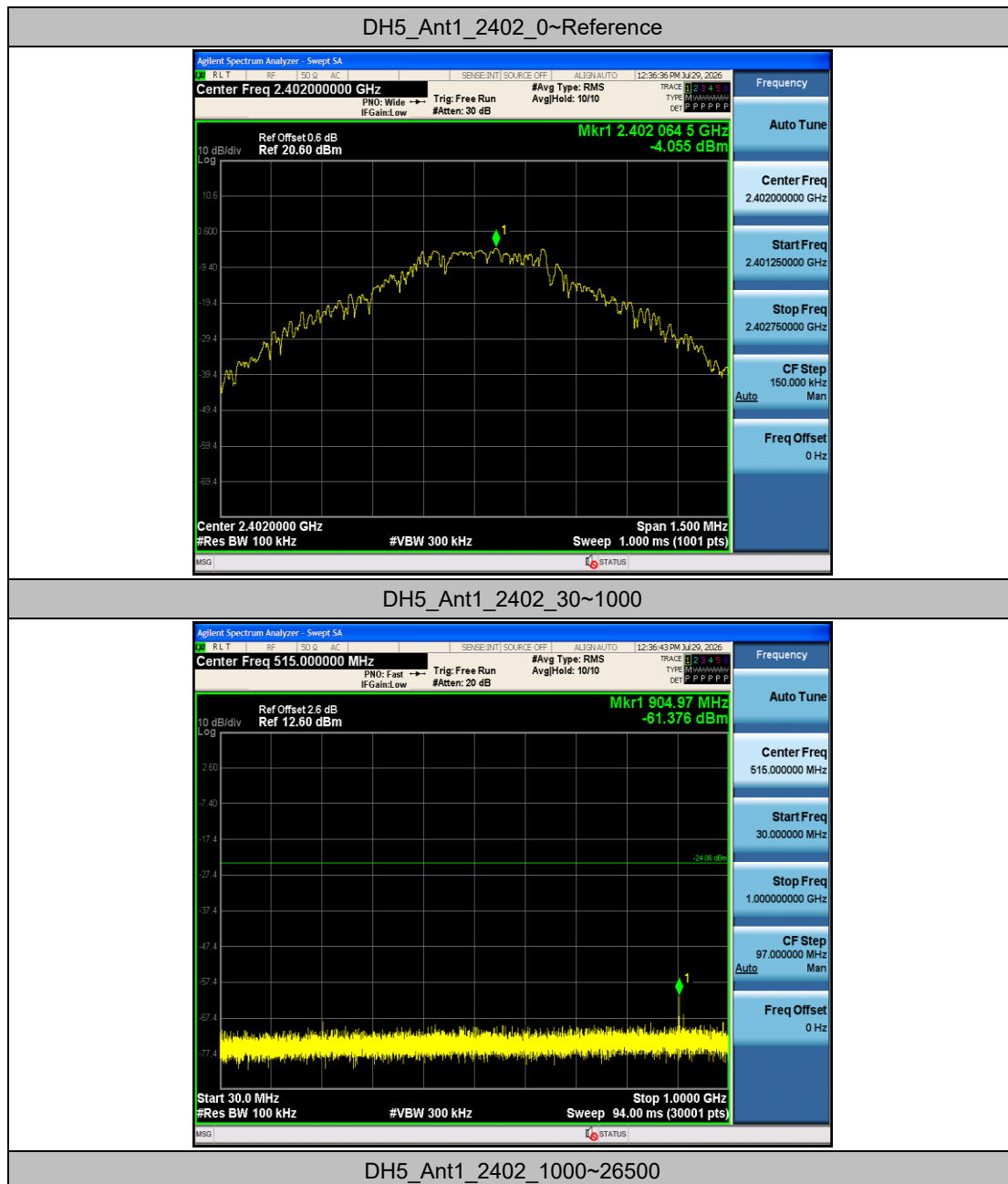


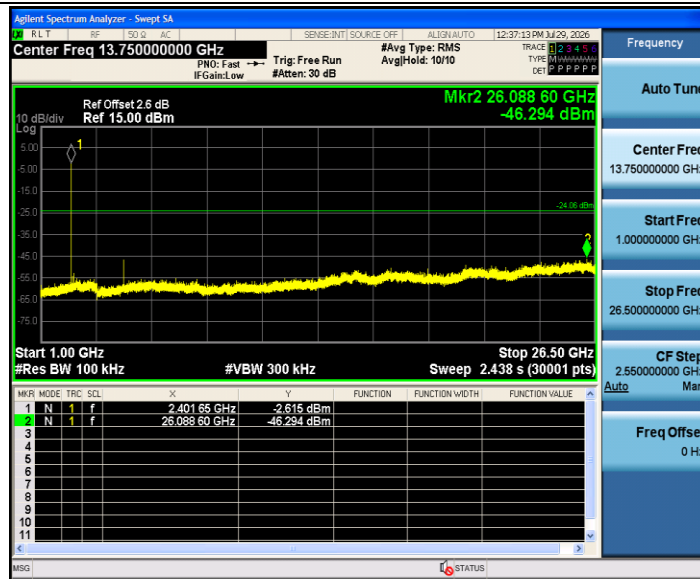
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-61.38	≤-24.06	PASS
			1000~26500	-4.06	-46.29	≤-24.06	PASS
		2441	Reference	-3.63	-3.63	---	PASS
			30~1000	-3.63	-67.64	≤-23.63	PASS
			1000~26500	-3.63	-46.33	≤-23.63	PASS
		2480	Reference	-3.84	-3.84	---	PASS
			30~1000	-3.84	-68.57	≤-23.84	PASS
			1000~26500	-3.84	-46.56	≤-23.84	PASS
2DH5	Ant1	2402	Reference	-6.53	-6.53	---	PASS
			30~1000	-6.53	-68.89	≤-26.53	PASS
			1000~26500	-6.53	-46.26	≤-26.53	PASS
		2441	Reference	-5.51	-5.51	---	PASS
			30~1000	-5.51	-67.81	≤-25.51	PASS
			1000~26500	-5.51	-47.03	≤-25.51	PASS
		2480	Reference	-7.07	-7.07	---	PASS
			30~1000	-7.07	-67.46	≤-27.07	PASS
			1000~26500	-7.07	-47.06	≤-27.07	PASS

Test Graphs

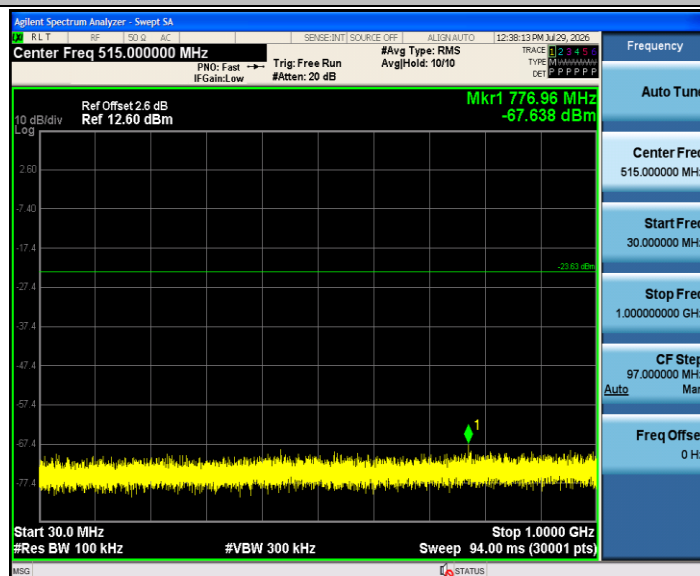




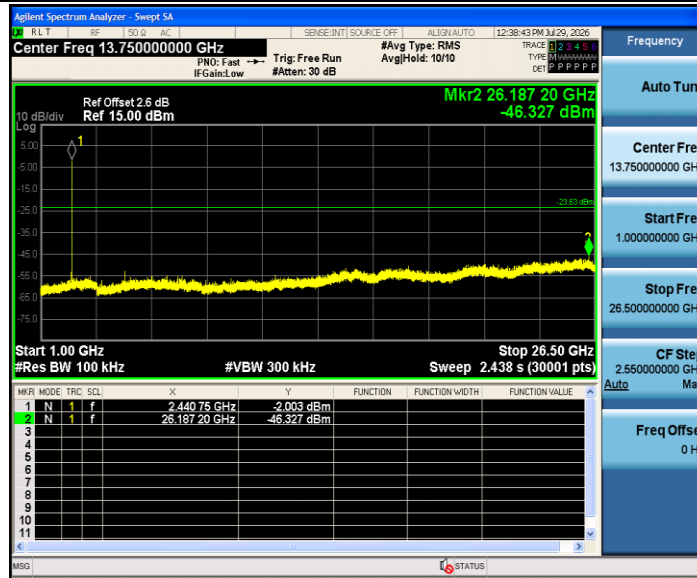
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



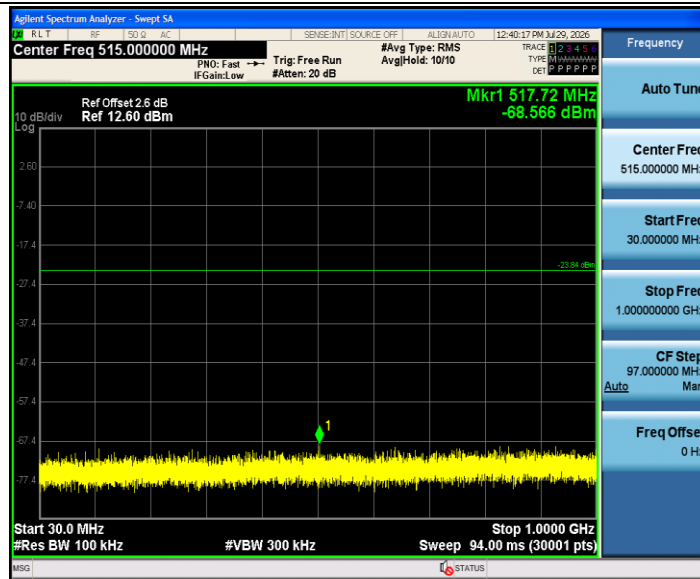
DH5_Ant1_2441_1000~26500



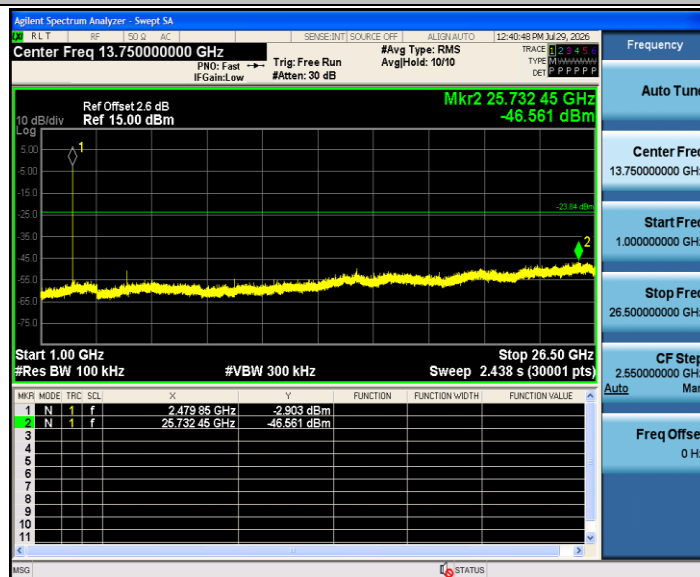
DH5_Ant1_2480_0~Reference



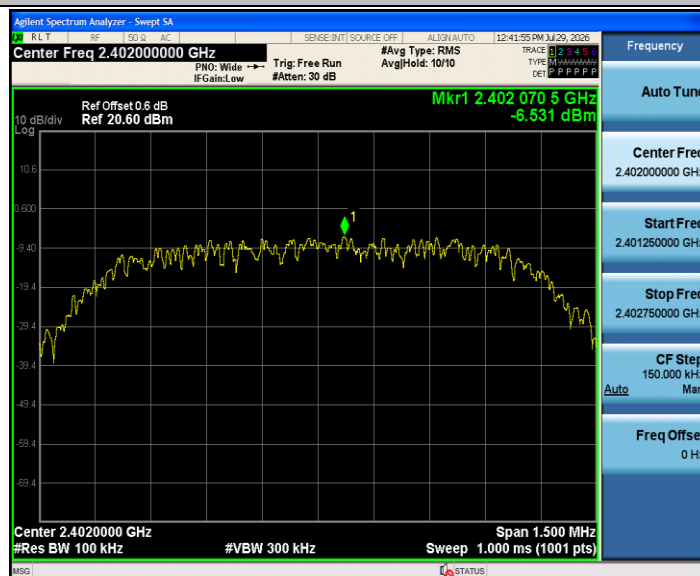
DH5_Ant1_2480_30~1000



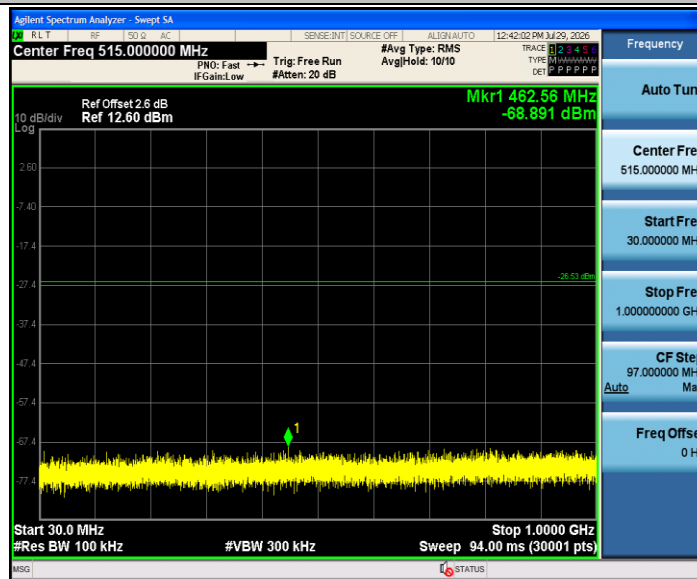
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference