

FCC Appendix RF Test Data for BT

FCC ID : 2A2AI-C50

Company : Shenzhen Yinxiaoqian technology Co., Ltd

EUT : Temporary Tattoo Printer

Model Number : C50

Report No. : CTA26090900102

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	0.963	2401.544	2402.507	---	---
		2441	0.957	2440.547	2441.504	---	---
		2480	0.942	2479.553	2480.495	---	---
2DH5	Ant1	2402	1.320	2401.349	2402.669	---	---
		2441	1.332	2440.343	2441.675	---	---
		2480	1.287	2479.376	2480.663	---	---
3DH5	Ant1	2402	1.314	2401.358	2402.672	---	---
		2441	1.308	2440.358	2441.666	---	---
		2480	1.302	2479.370	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

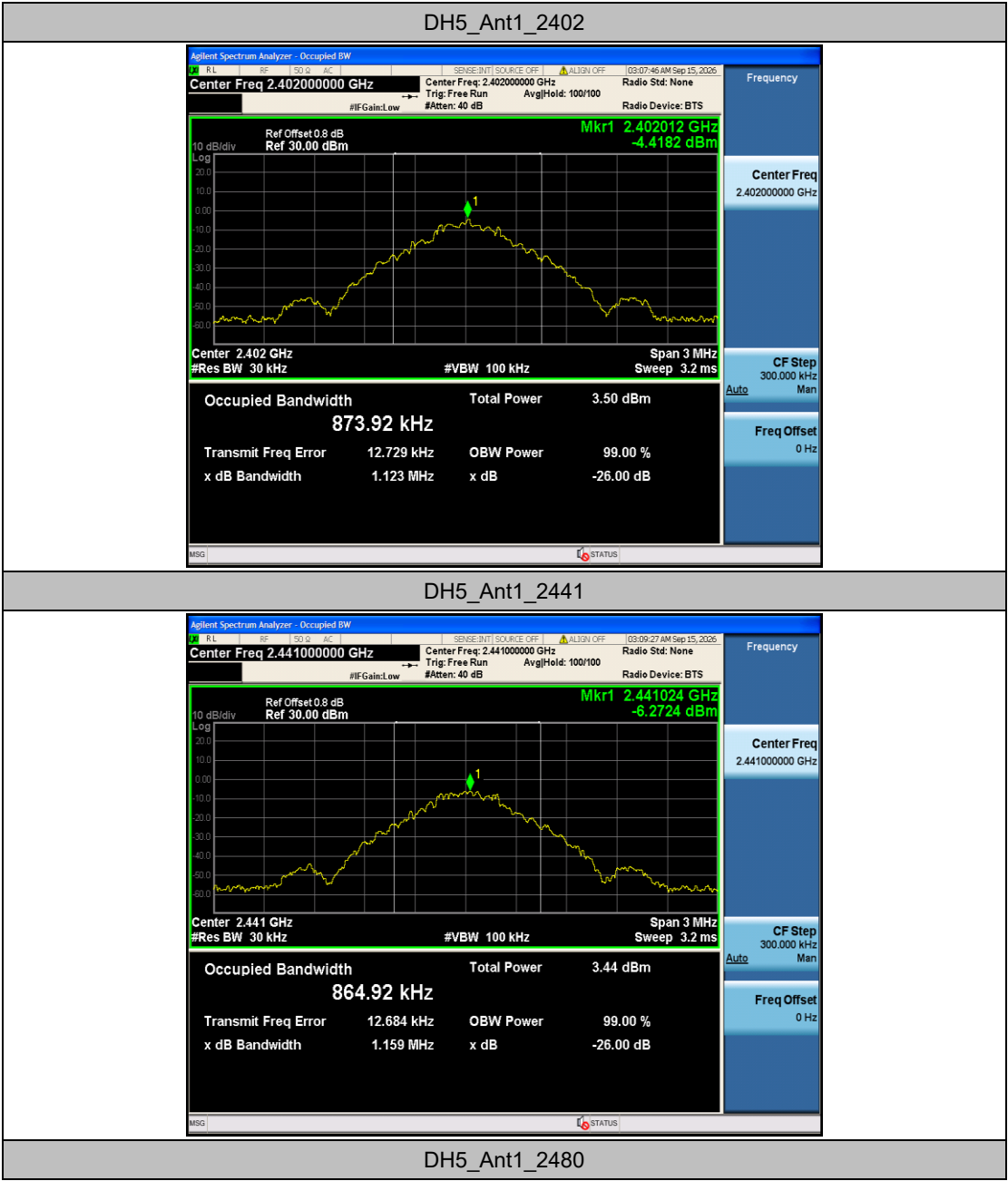


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87392	2401.5758	2402.4497	---	---
		2441	0.86492	2440.5802	2441.4451	---	---
		2480	0.86123	2479.5831	2480.4444	---	---
2DH5	Ant1	2402	1.1868	2401.4184	2402.6052	---	---
		2441	1.1879	2440.4161	2441.6040	---	---
		2480	1.1792	2479.4239	2480.6031	---	---
3DH5	Ant1	2402	1.1881	2401.4201	2402.6082	---	---
		2441	1.1952	2440.4122	2441.6074	---	---
		2480	1.1787	2479.4249	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	-2.84	≤20.97	PASS
		2441	-2.97	≤20.97	PASS
		2480	-3.30	≤20.97	PASS
2DH5	Ant1	2402	-0.19	≤20.97	PASS
		2441	-0.37	≤20.97	PASS
		2480	-0.71	≤20.97	PASS
3DH5	Ant1	2402	0.18	≤20.97	PASS
		2441	0.00	≤20.97	PASS
		2480	-0.42	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.642	PASS
2DH5	Ant1	Hop	0.954	≥ 0.888	PASS
3DH5	Ant1	Hop	0.984	≥ 0.876	PASS

Test Graphs



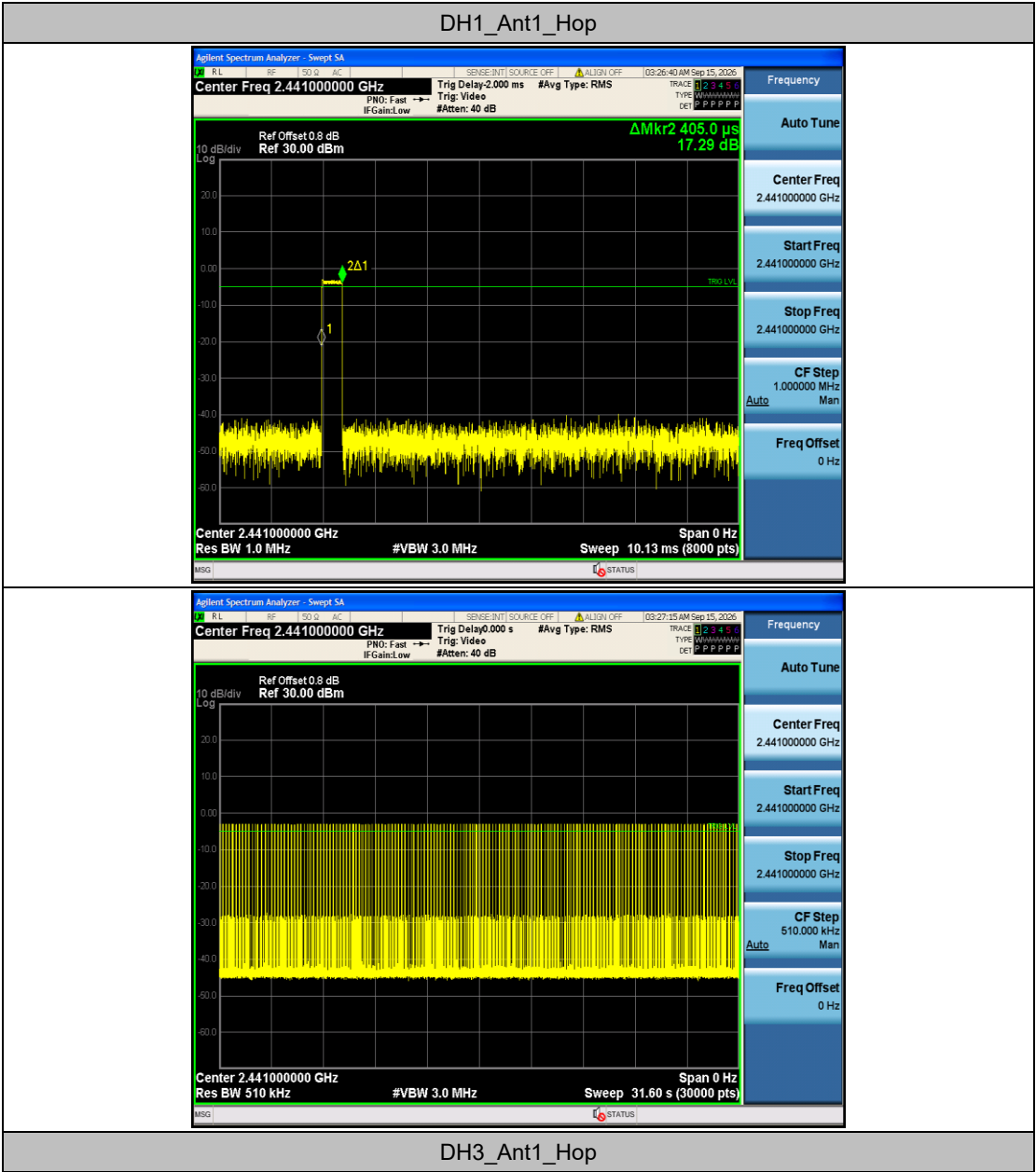


Appendix E: Time of occupancy

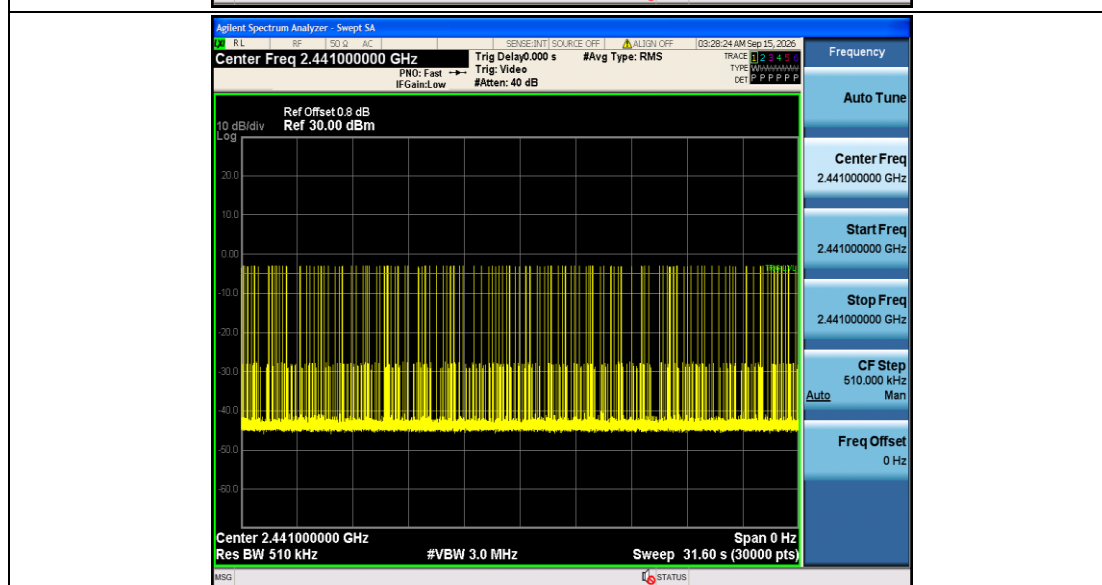
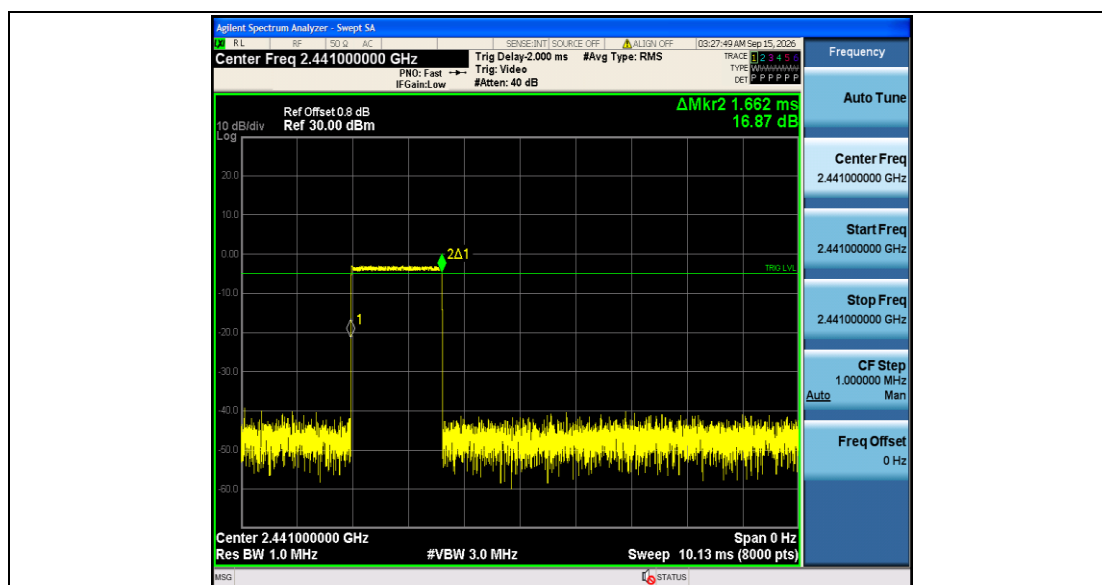
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	319	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	154	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.910	109	0.317	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	160	0.267	≤0.4	PASS
2DH5	Ant1	Hop	2.916	117	0.341	≤0.4	PASS
3DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	159	0.265	≤0.4	PASS
3DH5	Ant1	Hop	2.916	104	0.303	≤0.4	PASS

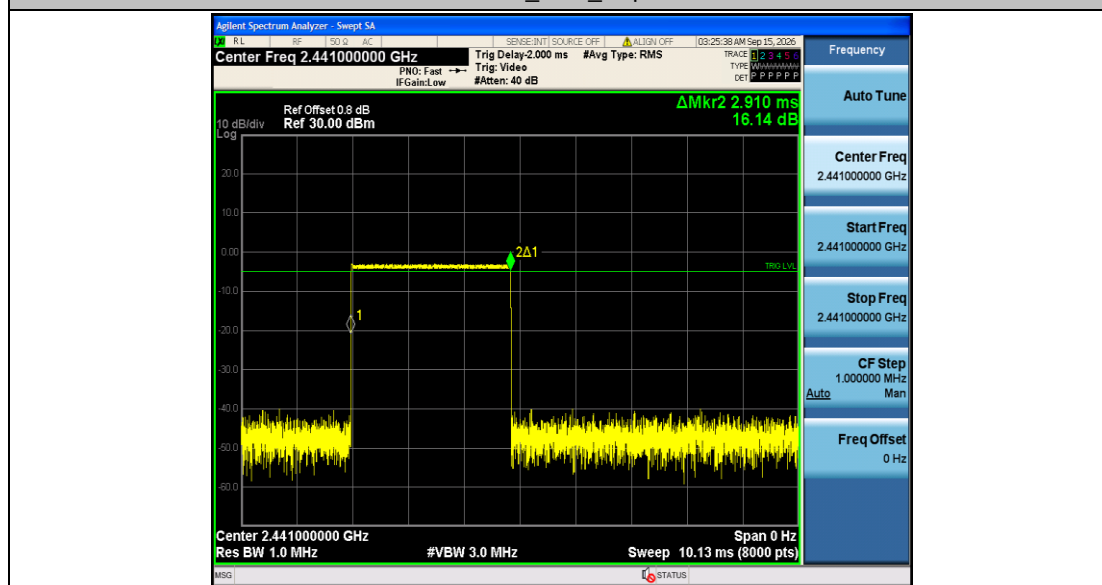
Test Graphs

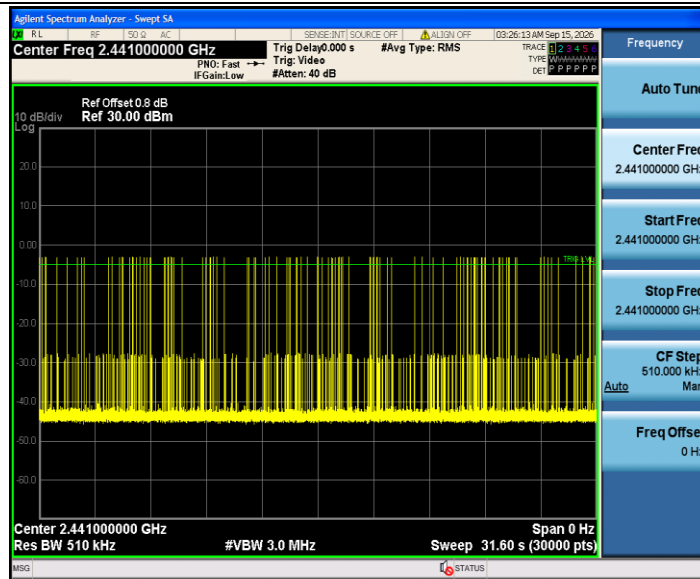


DH3_Ant1_Hop

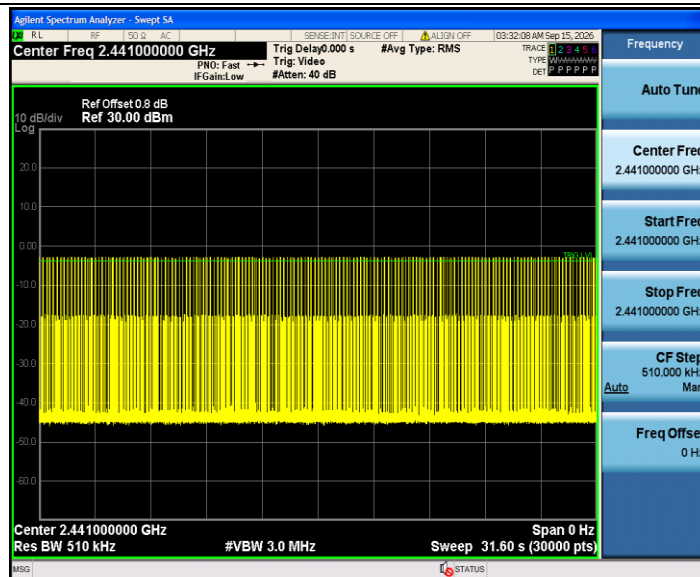
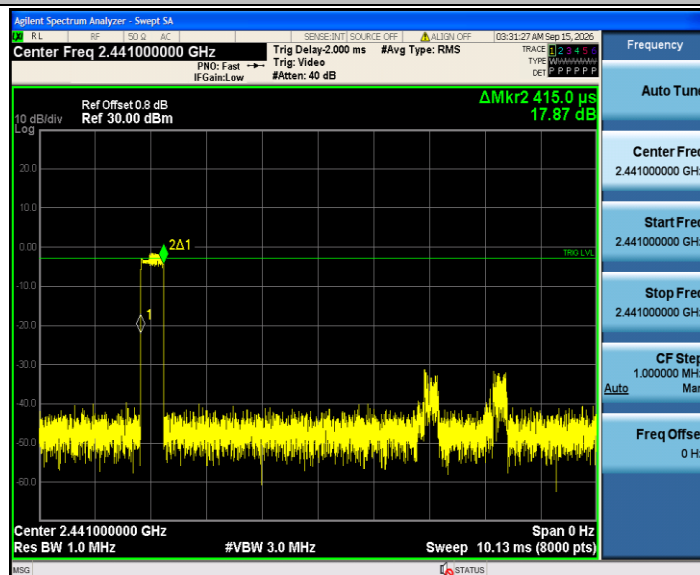


DH5_Ant1_Hop

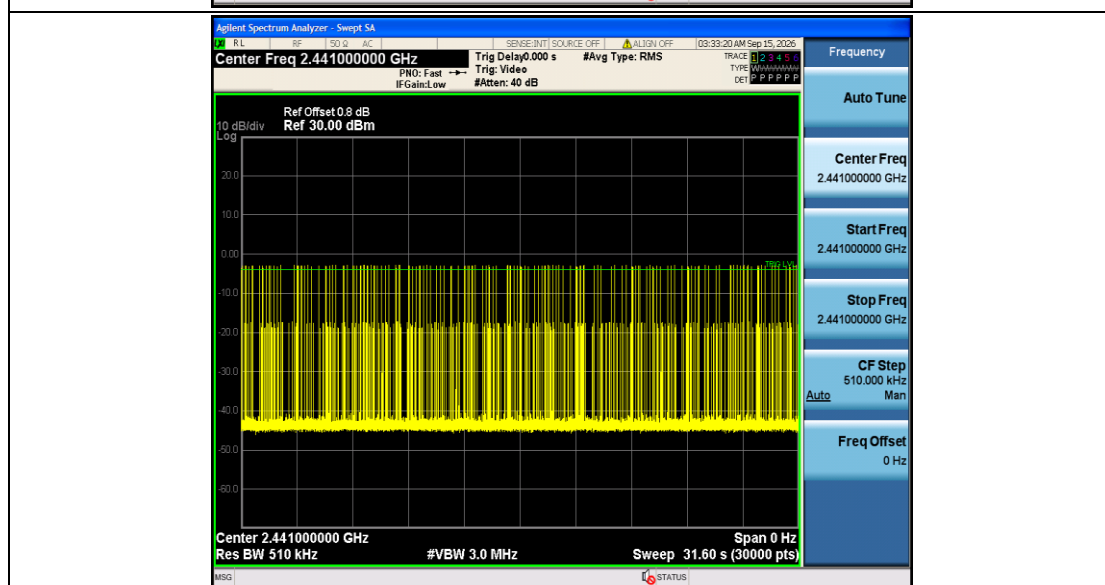
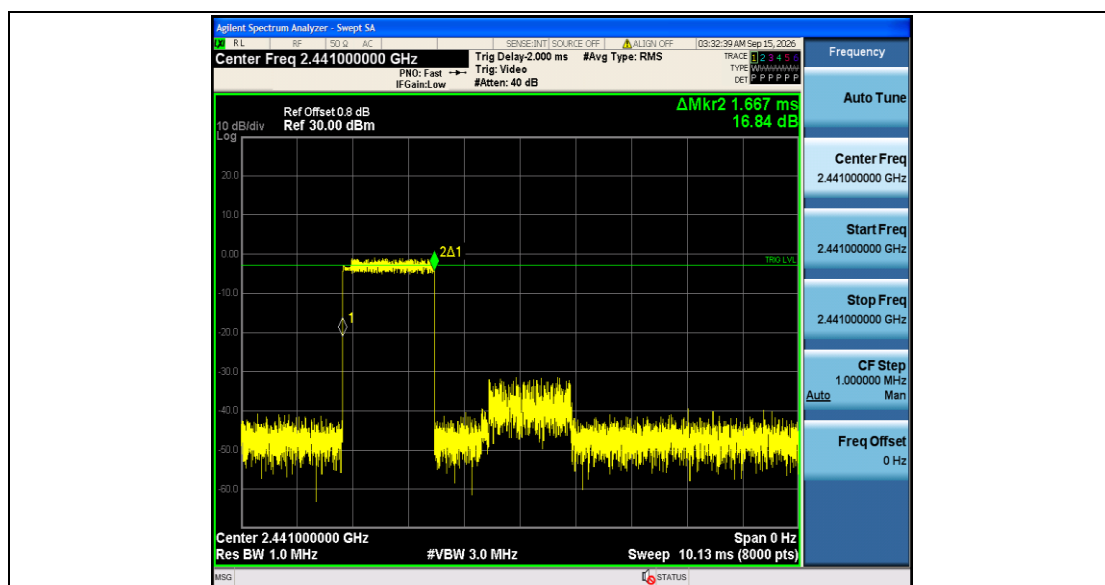




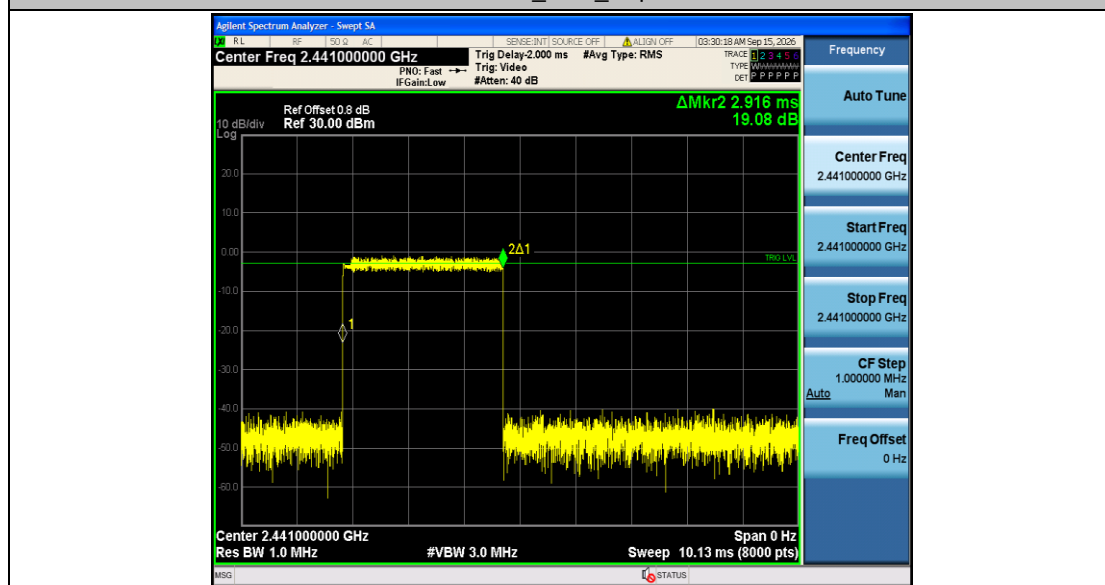
2DH1_Ant1_Hop

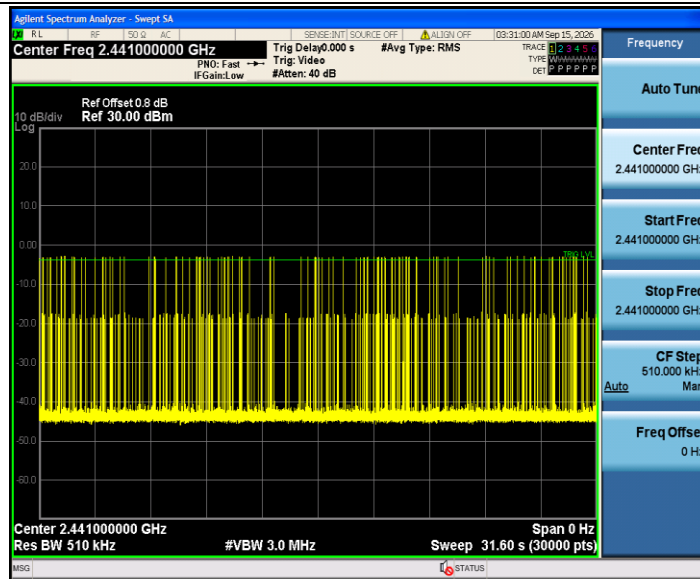


2DH3_Ant1_Hop

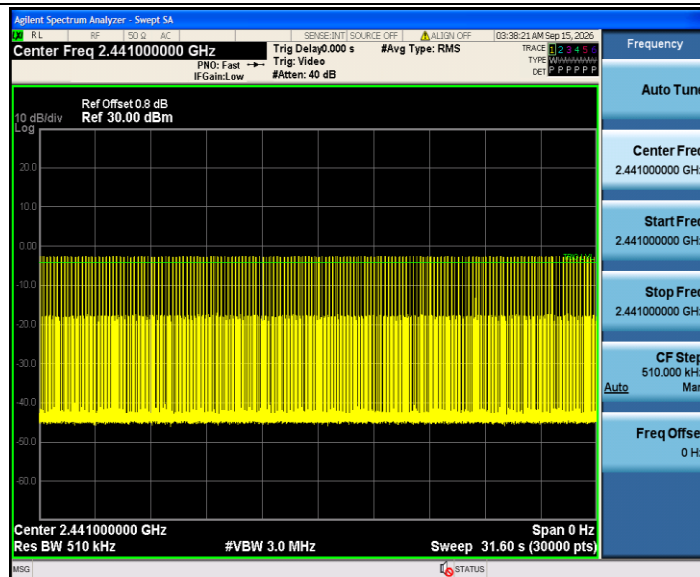
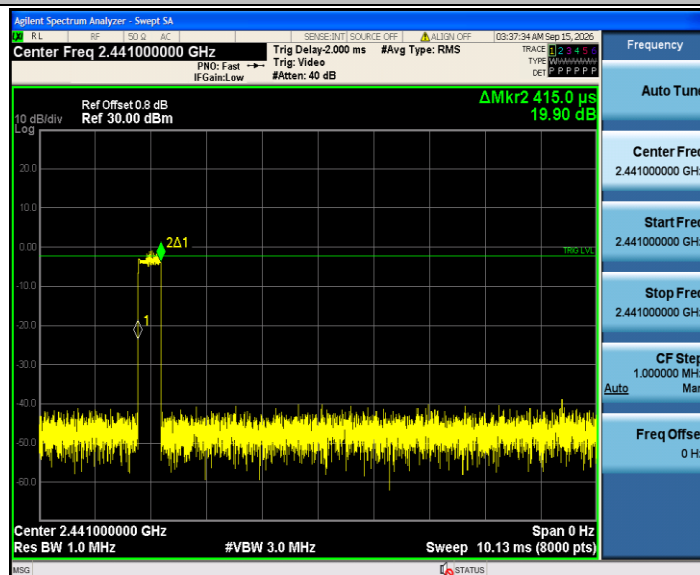


2DH5_Ant1_Hop

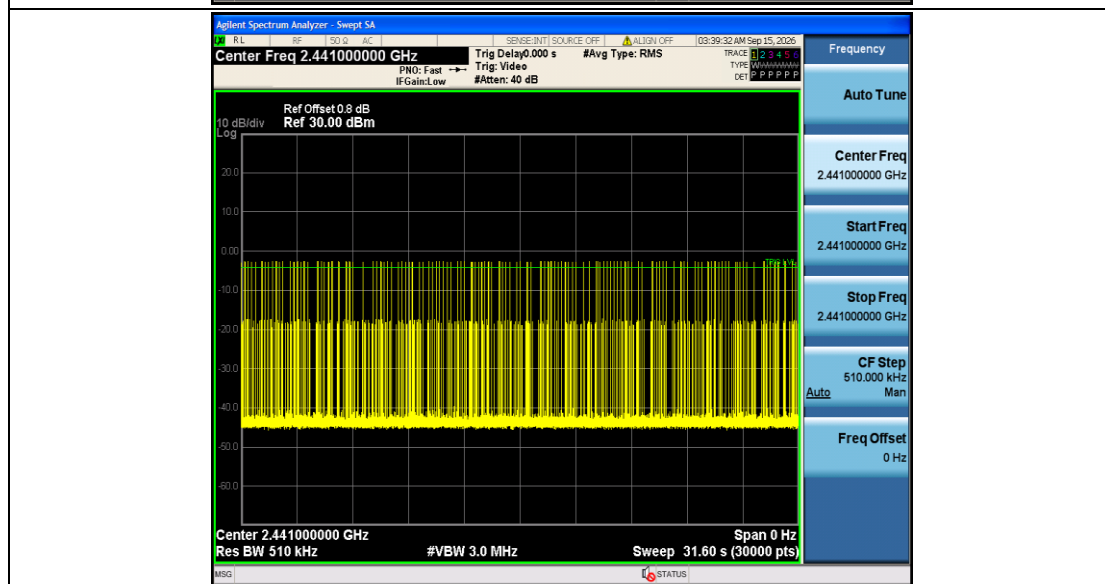
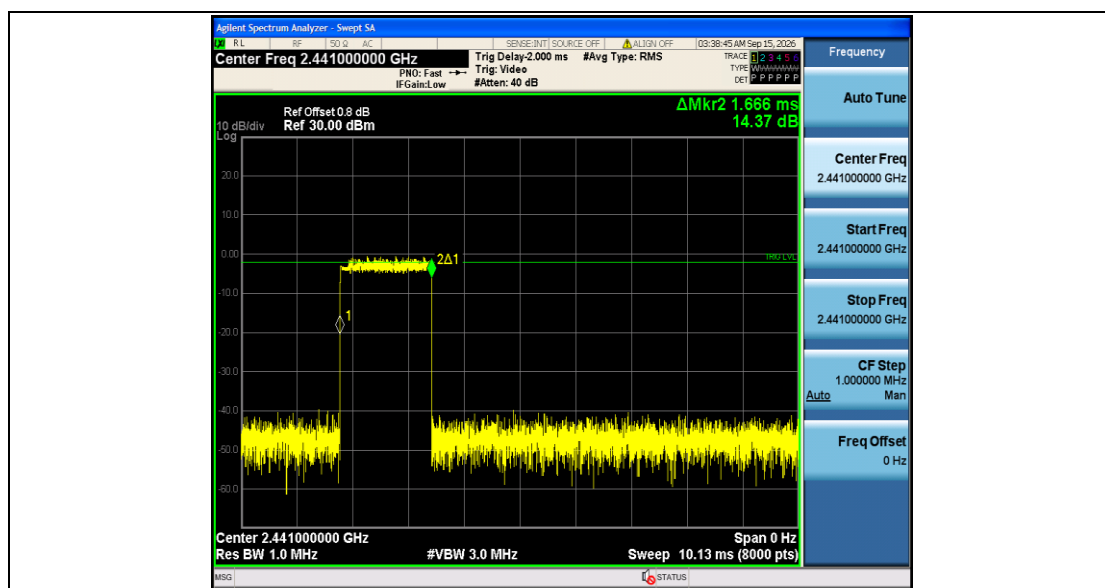




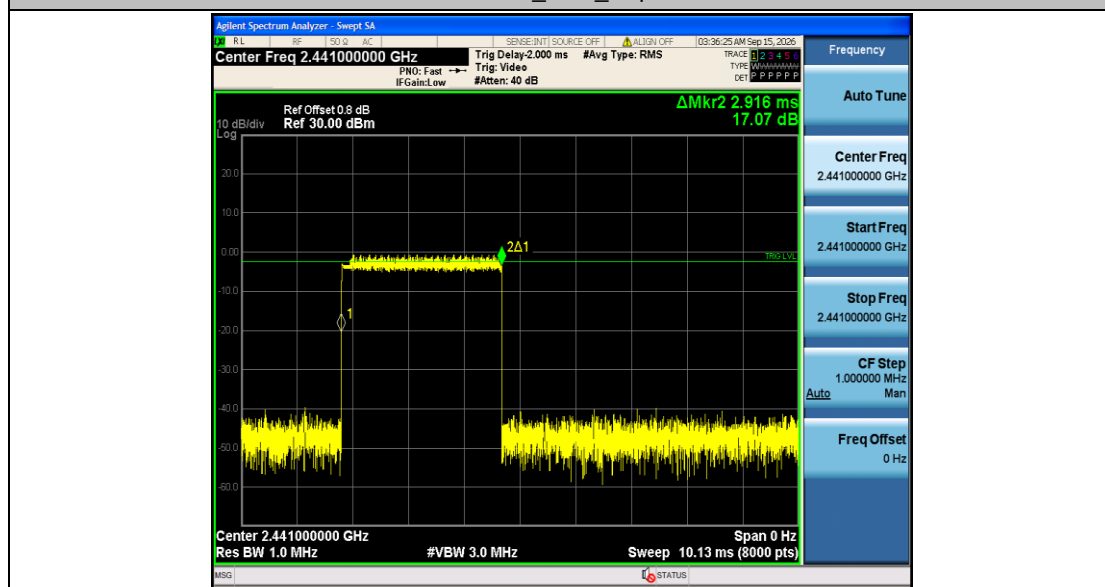
3DH1_Ant1_Hop

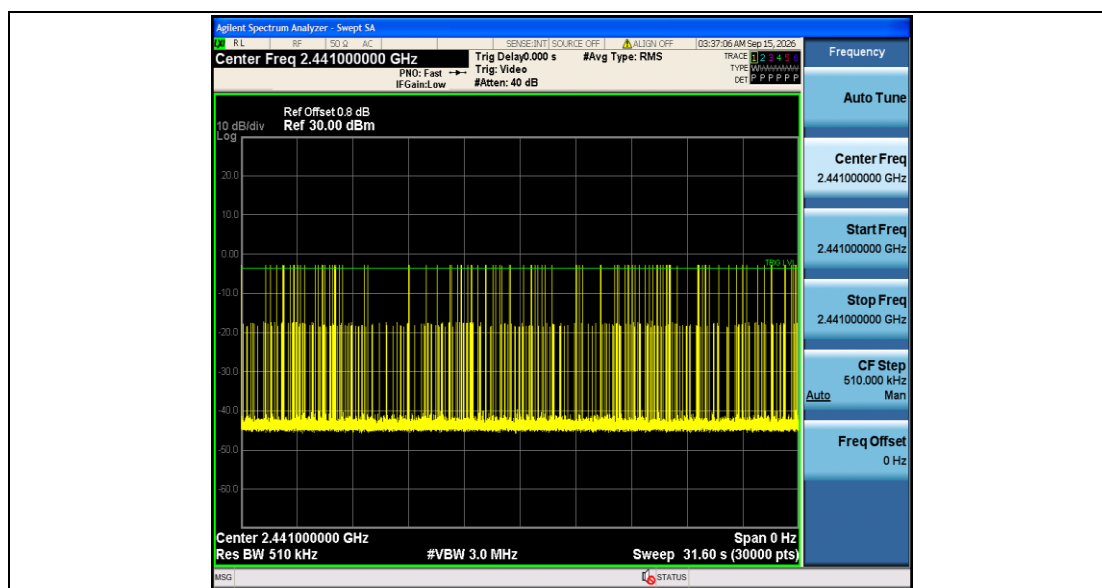


3DH3_Ant1_Hop



3DH5_Ant1_Hop



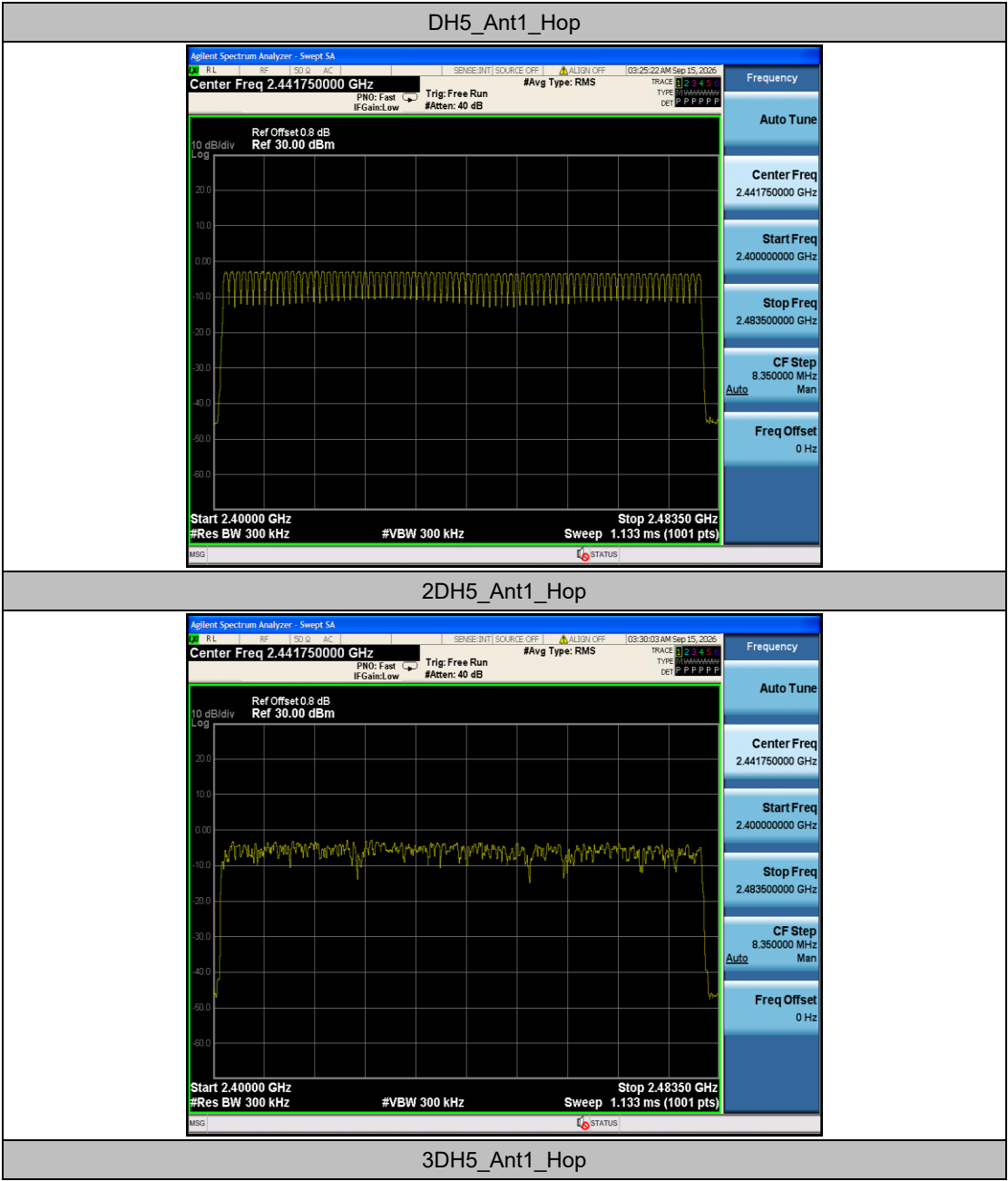


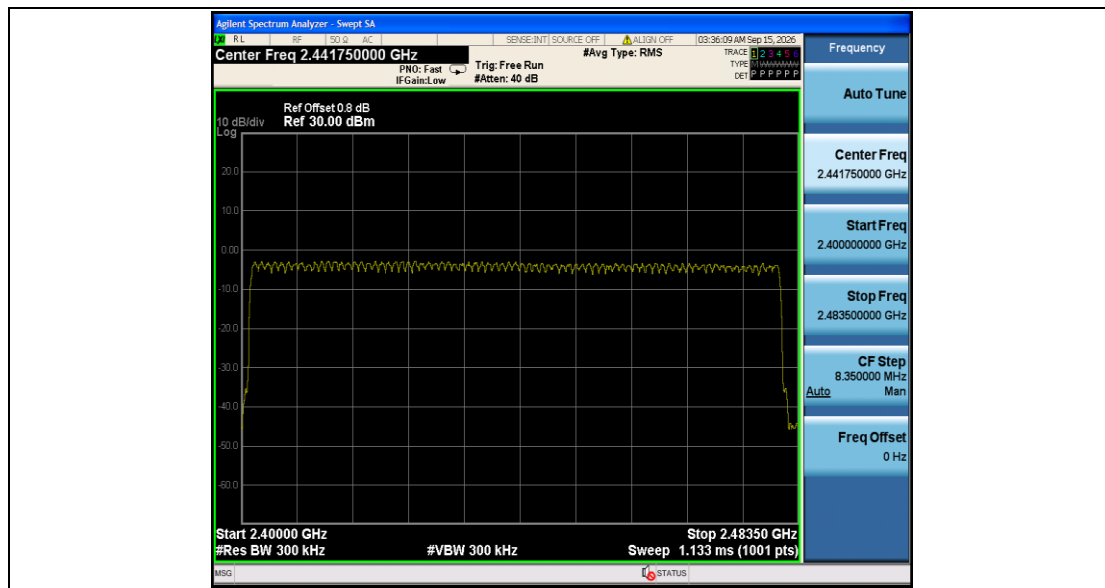
Appendix F: Number of hopping channels

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



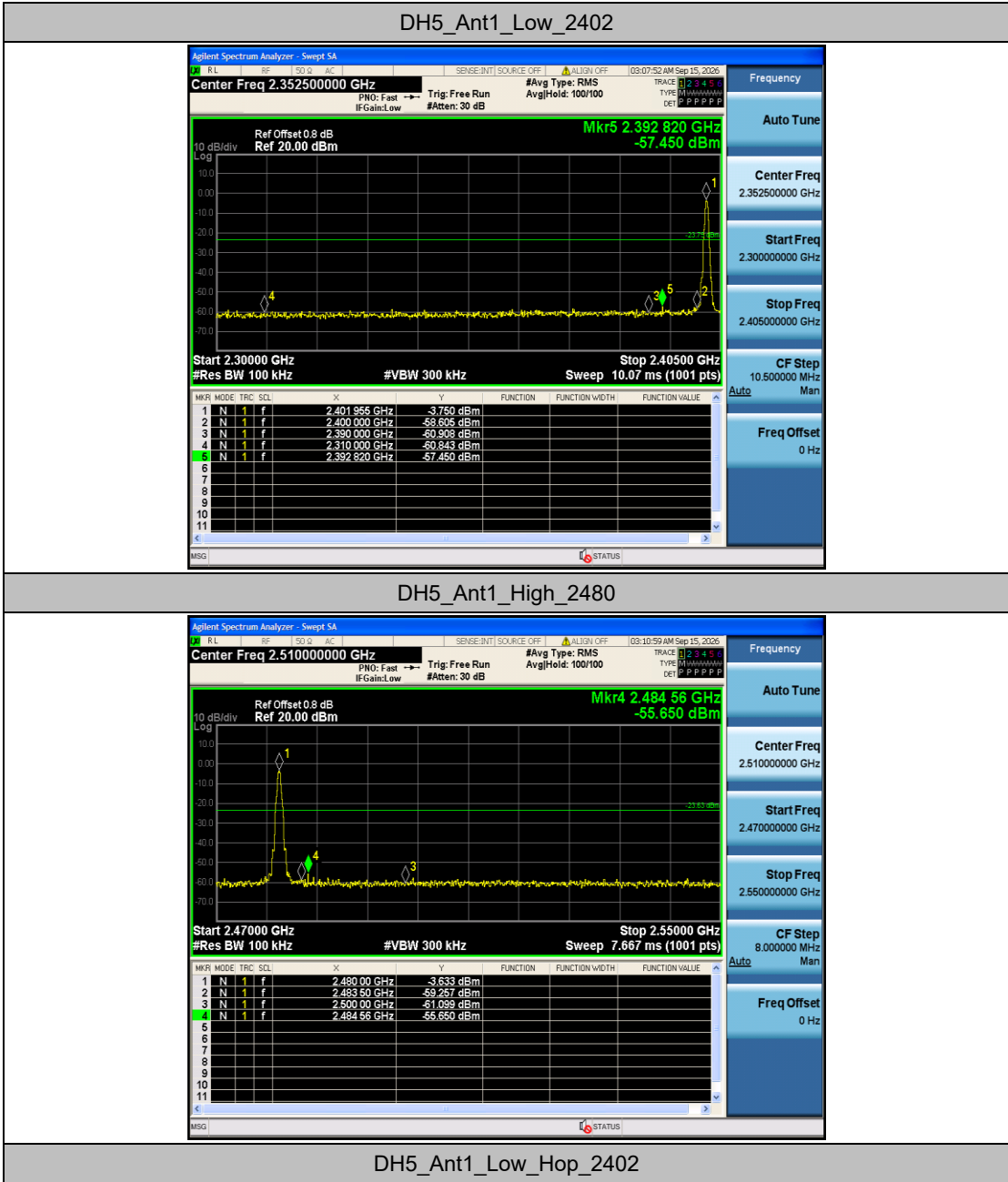


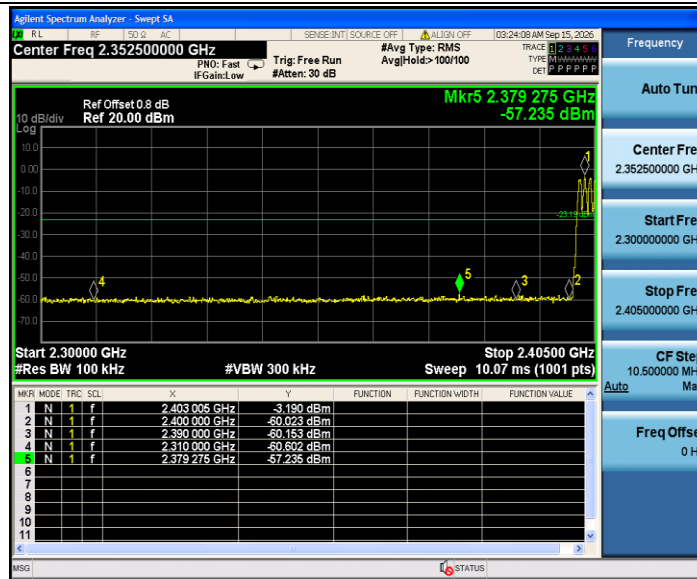
Appendix G: Band edge measurements

Test Result

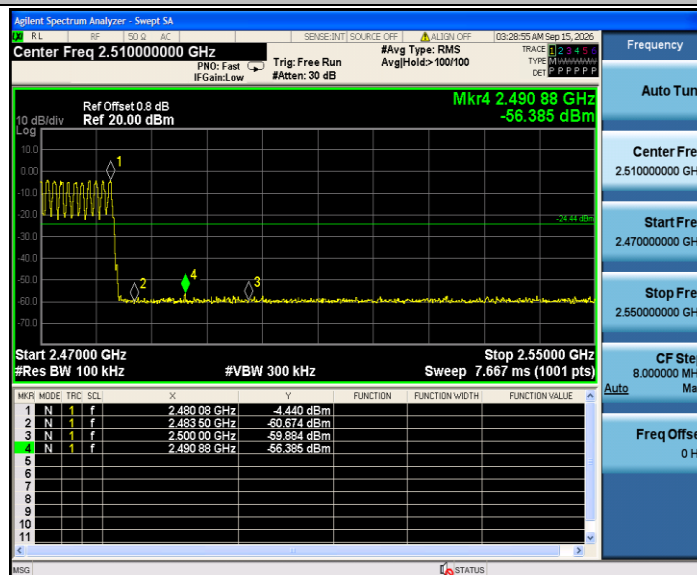
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.75	-57.45	≤-23.75	PASS
		High	2480	-3.63	-55.65	≤-23.63	PASS
		Low	Hop_2402	-3.19	-57.24	≤-23.19	PASS
		High	Hop_2480	-4.44	-56.39	≤-24.44	PASS
2DH5	Ant1	Low	2402	-3.68	-54.78	≤-23.68	PASS
		High	2480	-4.67	-57.26	≤-24.67	PASS
		Low	Hop_2402	-6.26	-55.79	≤-26.26	PASS
		High	Hop_2480	-4.33	-57.7	≤-24.33	PASS
3DH5	Ant1	Low	2402	-3.81	-57.03	≤-23.81	PASS
		High	2480	-4.20	-58.07	≤-24.2	PASS
		Low	Hop_2402	-4.68	-57.51	≤-24.68	PASS
		High	Hop_2480	-5.32	-56.79	≤-25.32	PASS

Test Graphs

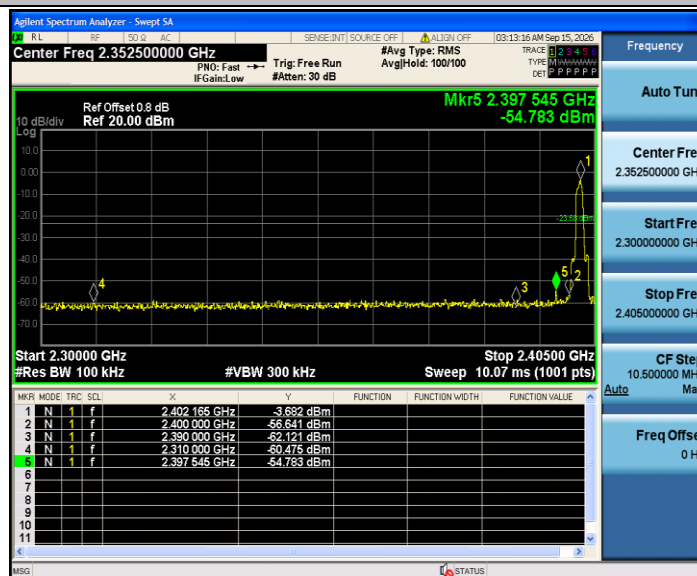




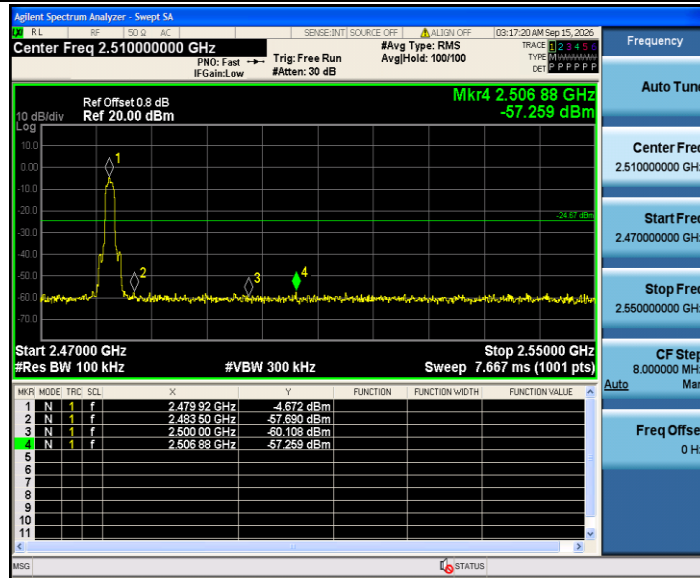
DH5_Ant1_High_Hop_2480



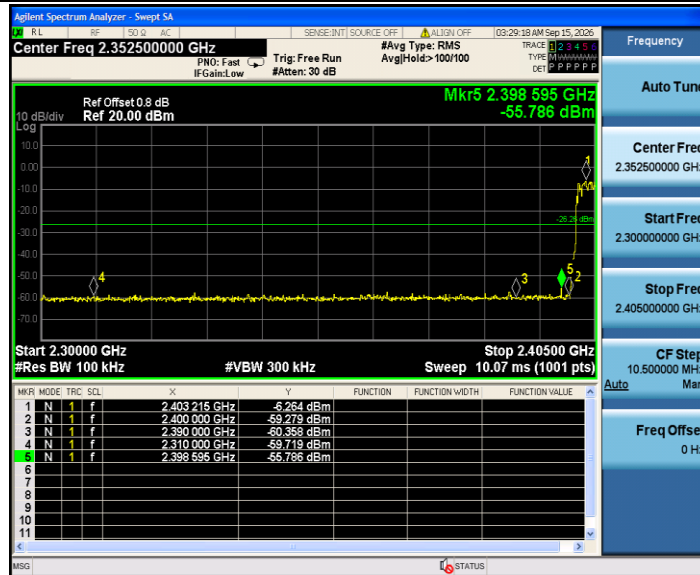
2DH5_Ant1_Low_2402



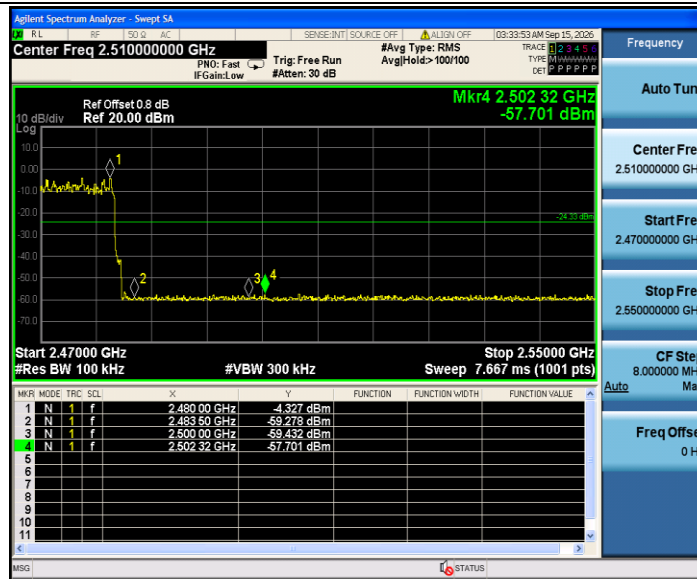
2DH5_Ant1_High_2480



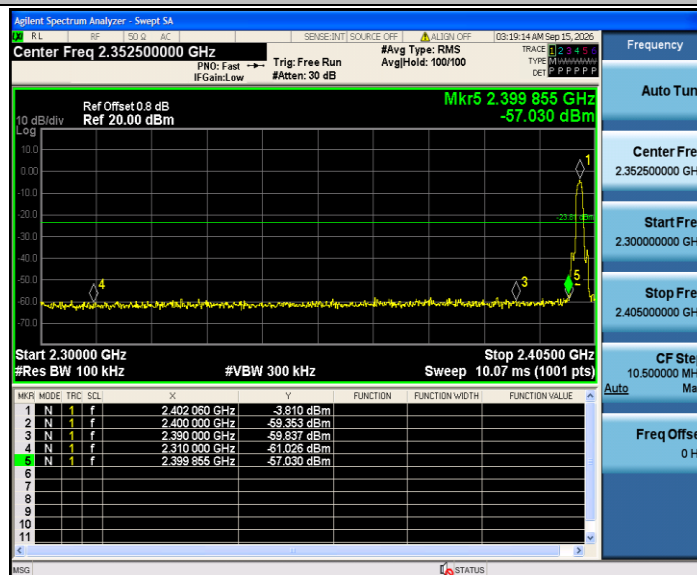
2DH5_Ant1_Low_Hop_2402



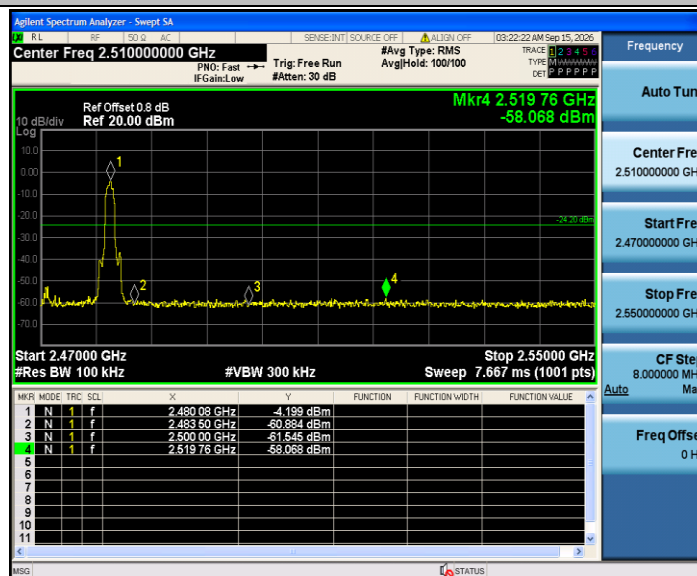
2DH5_Ant1_High_Hop_2480



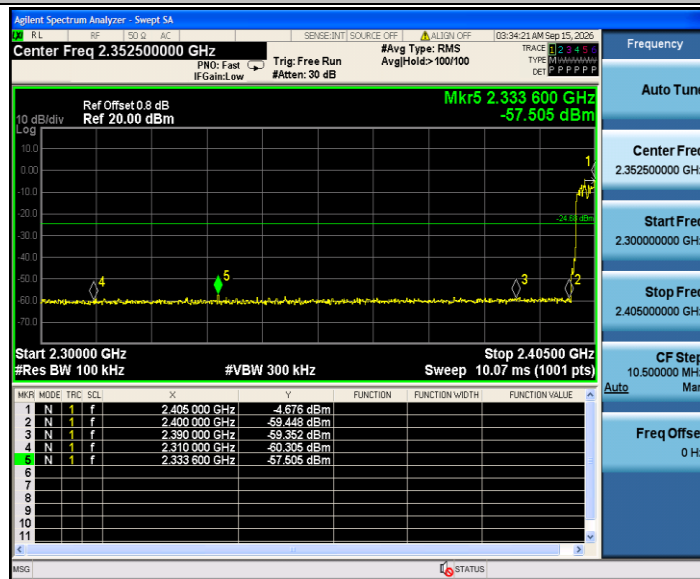
3DH5_Ant1_Low_2402



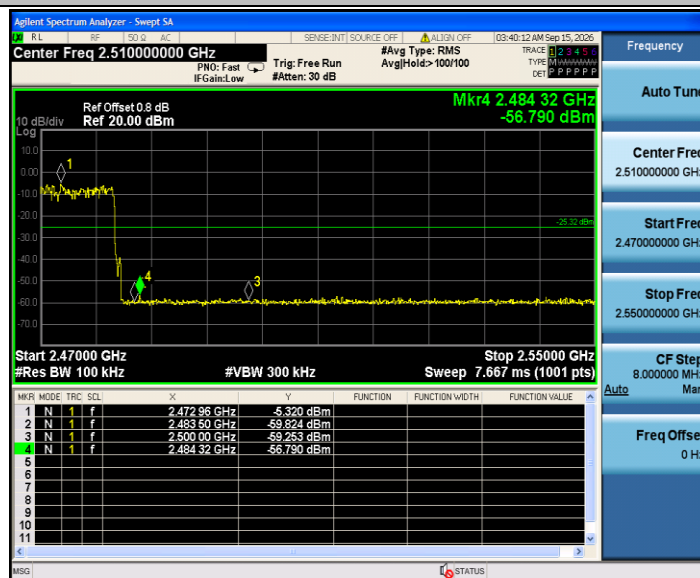
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

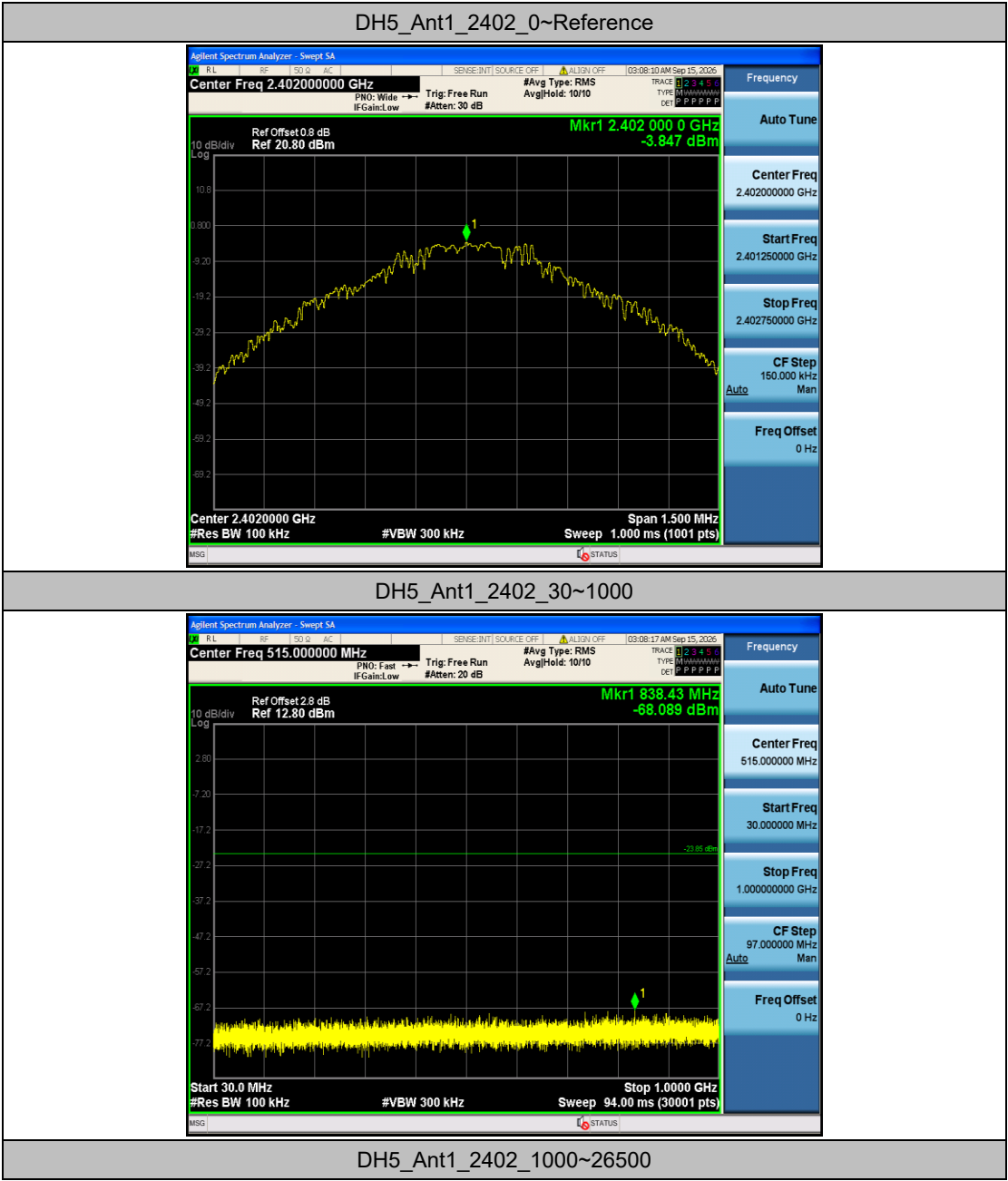


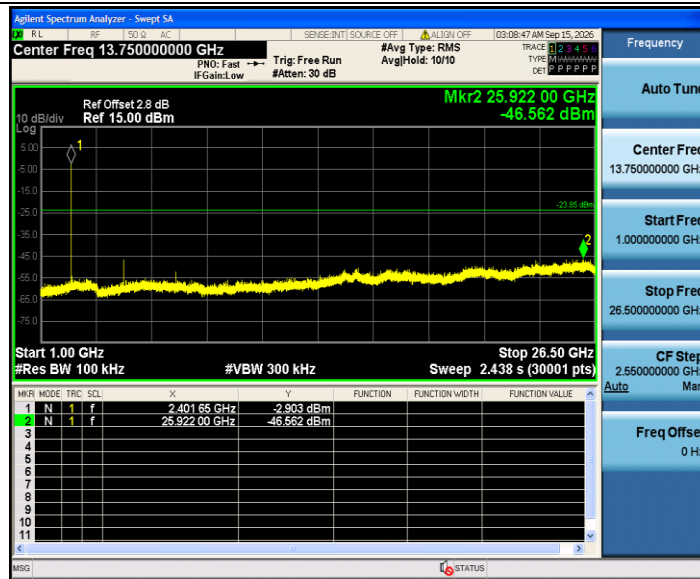
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.85	-3.85	---	PASS
			30~1000	-3.85	-68.09	≤-23.85	PASS
			1000~26500	-3.85	-46.56	≤-23.85	PASS
		2441	Reference	-4.22	-4.22	---	PASS
			30~1000	-4.22	-68.34	≤-24.22	PASS
			1000~26500	-4.22	-46.38	≤-24.22	PASS
		2480	Reference	-4.23	-4.23	---	PASS
			30~1000	-4.23	-68.18	≤-24.23	PASS
			1000~26500	-4.23	-46.22	≤-24.23	PASS
2DH5	Ant1	2402	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-67.69	≤-25	PASS
			1000~26500	-5.00	-46.22	≤-25	PASS
		2441	Reference	-6.30	-6.30	---	PASS
			30~1000	-6.30	-67.62	≤-26.3	PASS
			1000~26500	-6.30	-46.55	≤-26.3	PASS
		2480	Reference	-5.12	-5.12	---	PASS
			30~1000	-5.12	-68.26	≤-25.12	PASS
			1000~26500	-5.12	-45.29	≤-25.12	PASS
3DH5	Ant1	2402	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-68.36	≤-25.28	PASS
			1000~26500	-5.28	-43.29	≤-25.28	PASS
		2441	Reference	-6.36	-6.36	---	PASS
			30~1000	-6.36	-68.86	≤-26.36	PASS
			1000~26500	-6.36	-46.04	≤-26.36	PASS
		2480	Reference	-6.23	-6.23	---	PASS
			30~1000	-6.23	-68.4	≤-26.23	PASS
			1000~26500	-6.23	-45.93	≤-26.23	PASS

Test Graphs

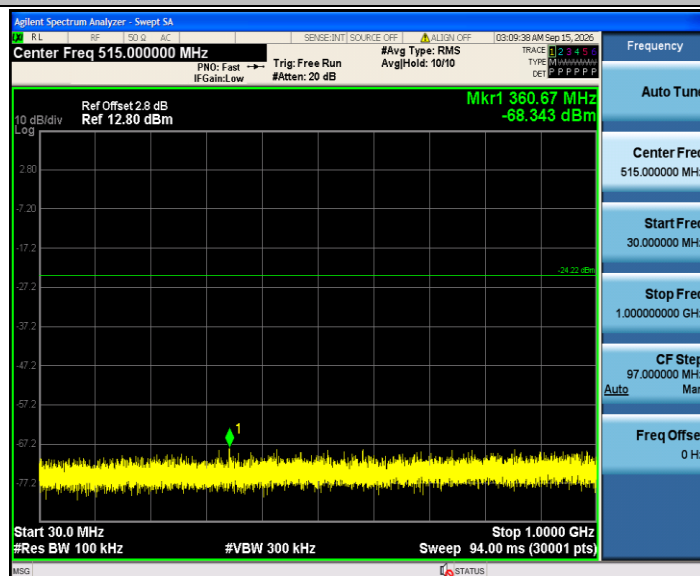




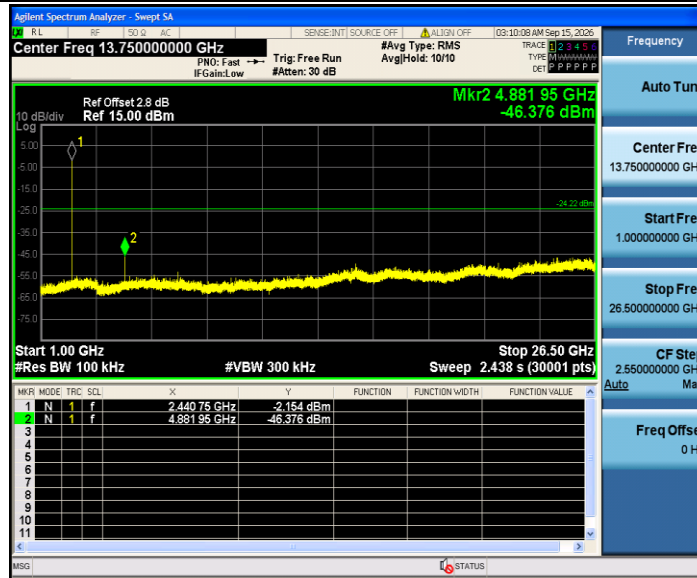
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



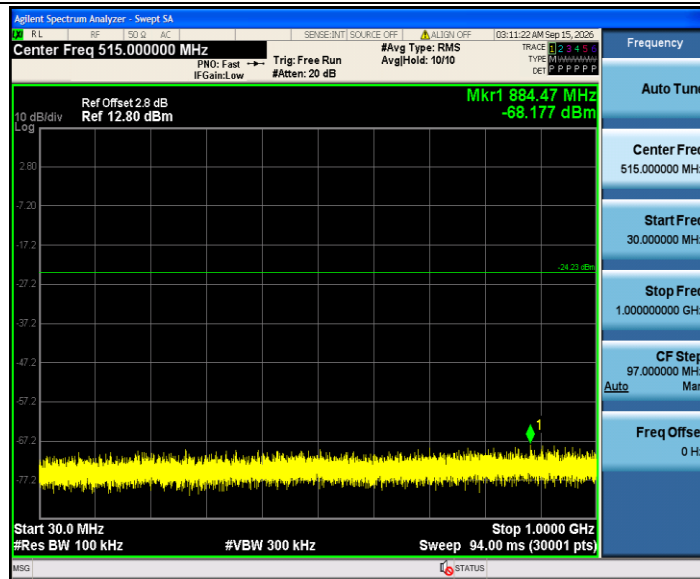
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



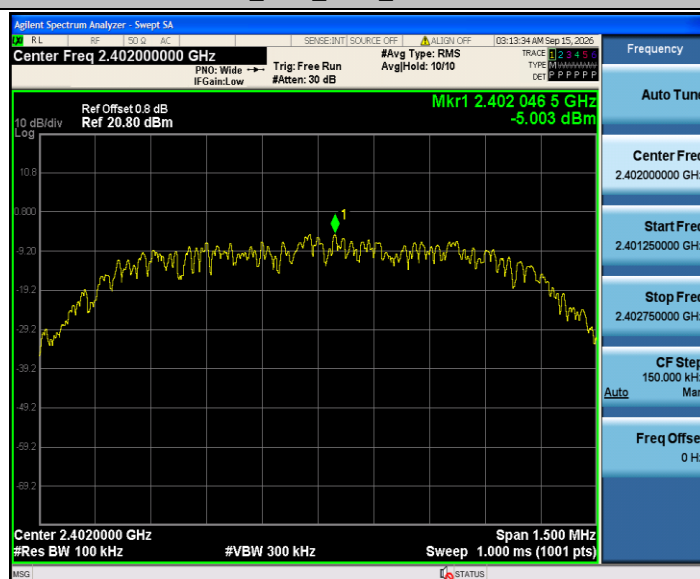
DH5_Ant1_2480_30~1000



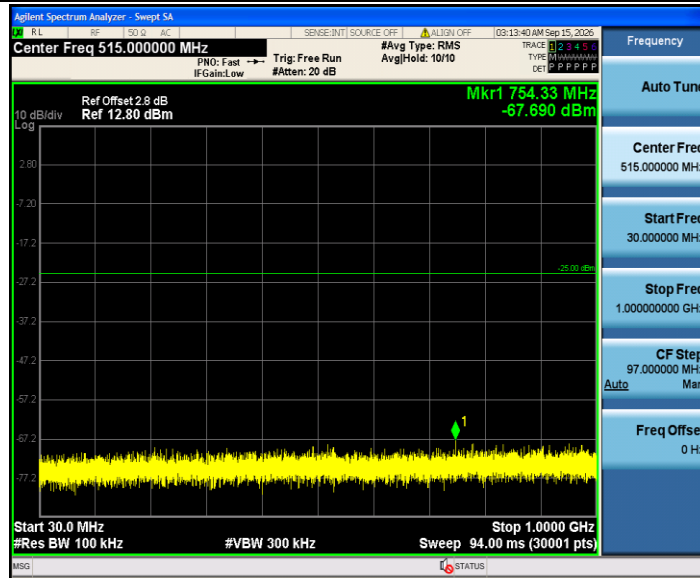
DH5_Ant1_2480_1000~26500



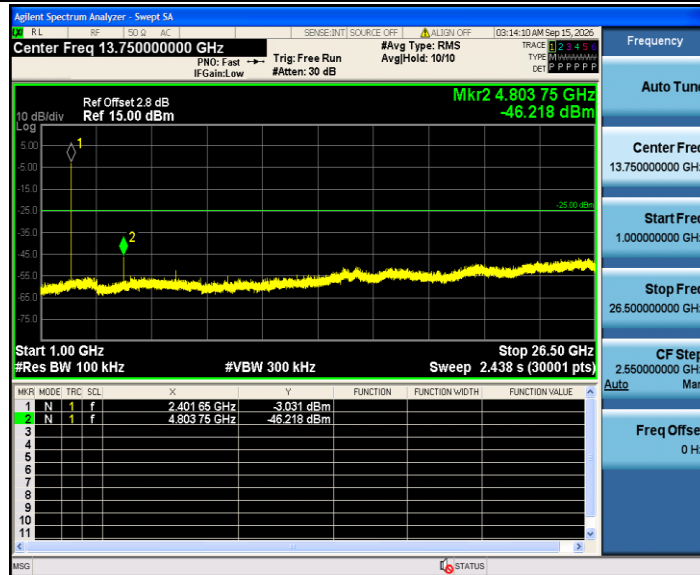
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference