

FCC Appendix RF Test Data for BT

FCC ID : **R38YLCPK23**

Company : **Yulong Computer Telecommunication Scientific
(Shenzhen) Co., Ltd**

EUT : **Smart Phone**

Model Number : **K23**

Report No. : **CTA26032500715**

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	0.957	2401.541	2402.498	---	---
		2441	0.948	2440.547	2441.495	---	---
		2480	0.966	2479.529	2480.495	---	---
2DH5	Ant1	2402	1.326	2401.343	2402.669	---	---
		2441	1.287	2440.376	2441.663	---	---
		2480	1.272	2479.391	2480.663	---	---
3DH5	Ant1	2402	1.293	2401.367	2402.660	---	---
		2441	1.311	2440.358	2441.669	---	---
		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	0.86152	2401.5791	2402.4407	---	---
		2441	0.85056	2440.5809	2441.4314	---	---
		2480	0.87512	2479.5758	2480.4510	---	---
2DH5	Ant1	2402	1.1857	2401.4170	2402.6027	---	---
		2441	1.1968	2440.4112	2441.6080	---	---
		2480	1.1902	2479.4172	2480.6074	---	---
3DH5	Ant1	2402	1.1891	2401.4162	2402.6053	---	---
		2441	1.1980	2440.4115	2441.6095	---	---
		2480	1.1957	2479.4140	2480.6097	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



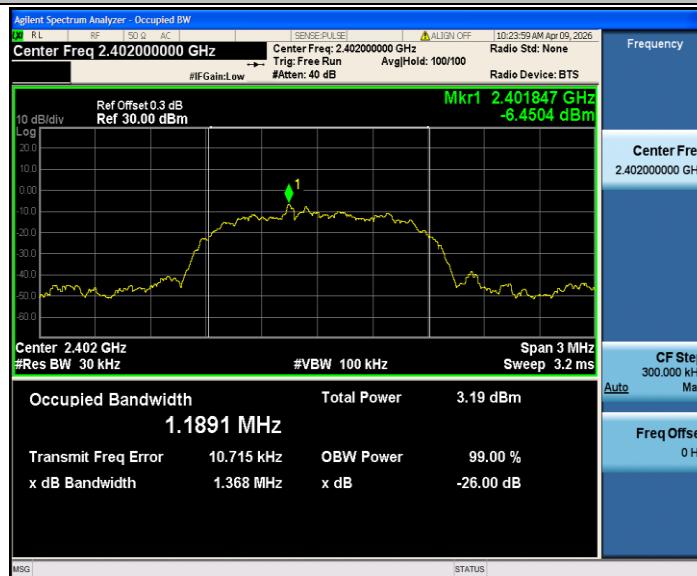
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

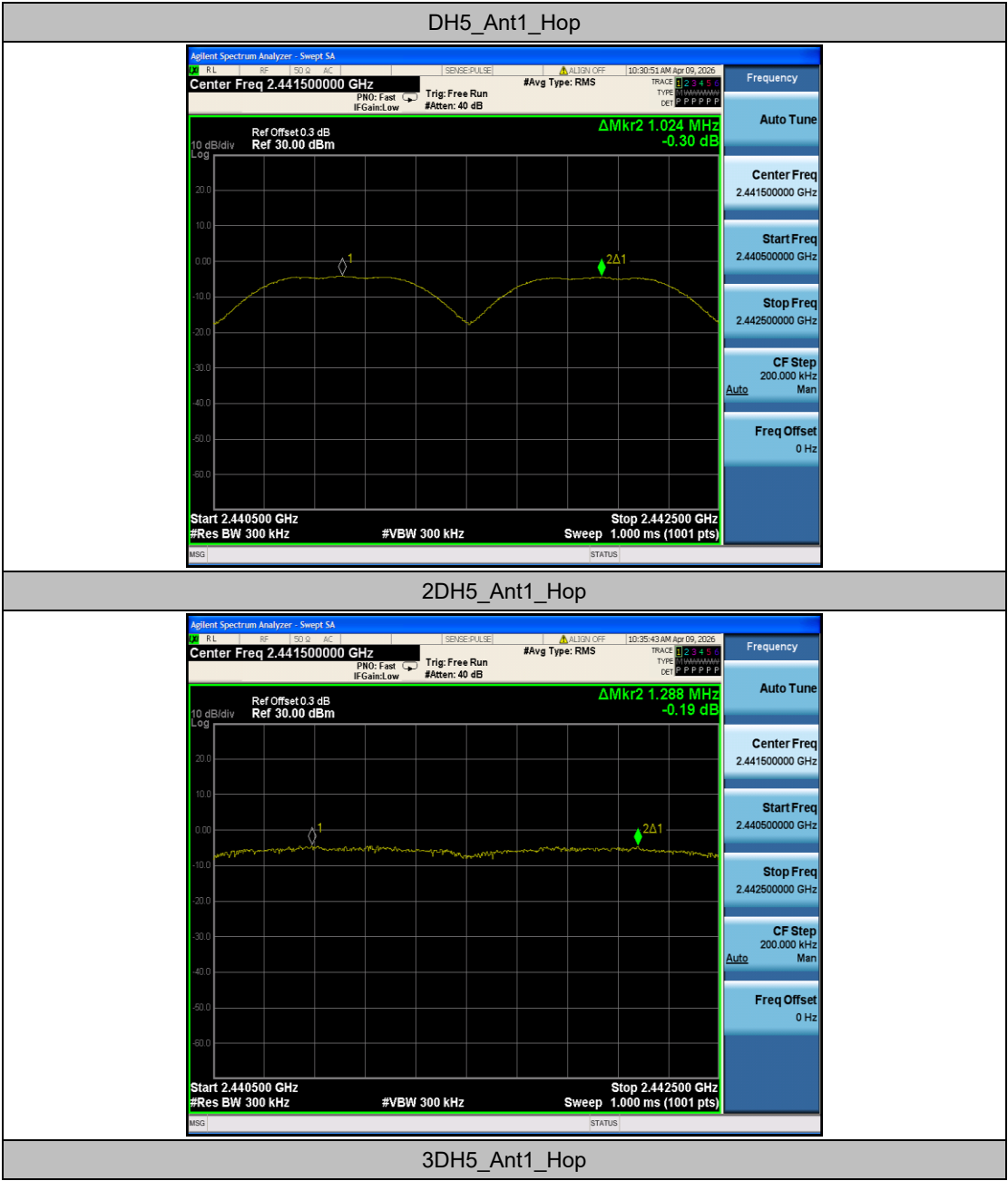
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.40	≤20.97	PASS
		2441	-3.92	≤20.97	PASS
		2480	-4.18	≤20.97	PASS
2DH5	Ant1	2402	-0.79	≤20.97	PASS
		2441	-1.35	≤20.97	PASS
		2480	-1.62	≤20.97	PASS
3DH5	Ant1	2402	-0.43	≤20.97	PASS
		2441	-1.05	≤20.97	PASS
		2480	-1.25	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 0.966	PASS
2DH5	Ant1	Hop	1.288	≥ 0.884	PASS
3DH5	Ant1	Hop	1	≥ 0.874	PASS

Test Graphs



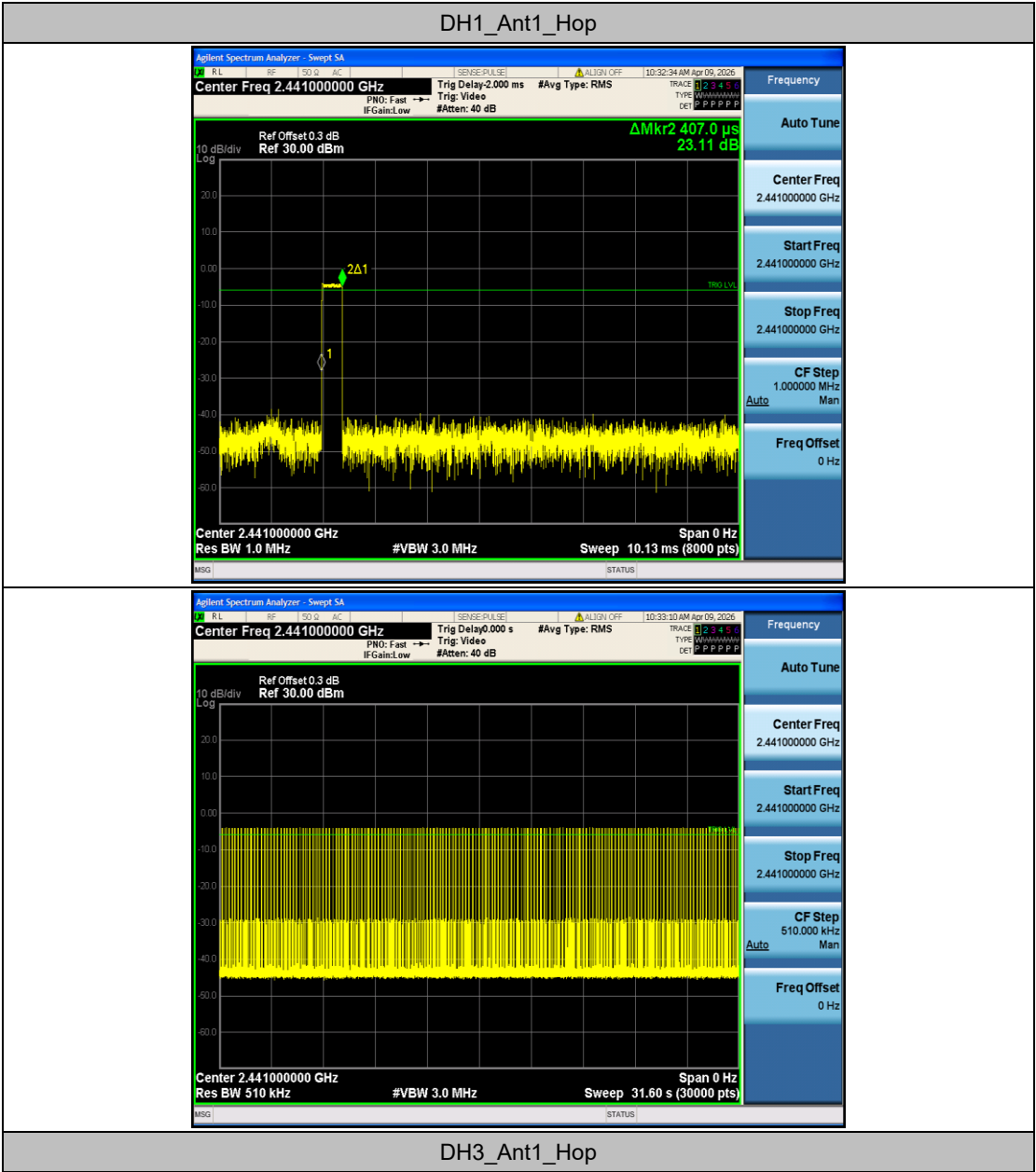


Appendix E: Time of occupancy

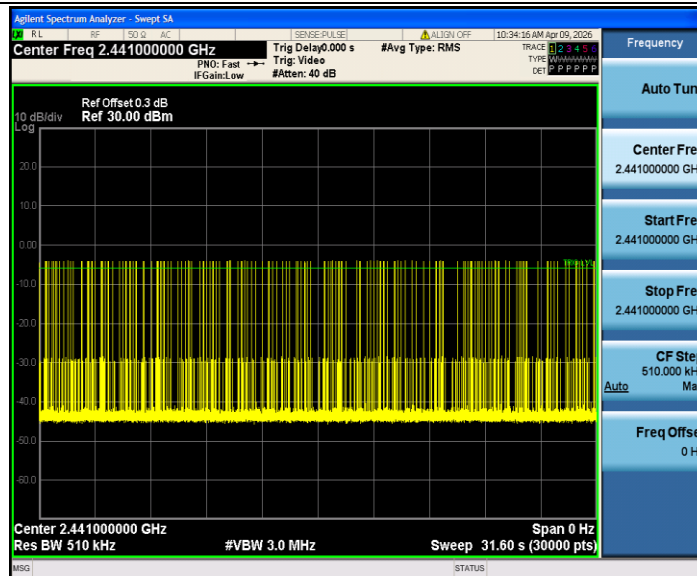
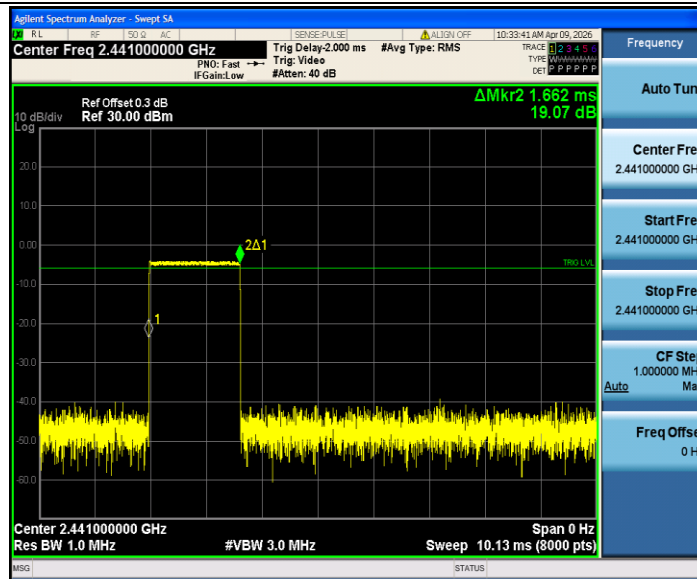
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	161	0.268	≤0.4	PASS
DH5	Ant1	Hop	2.911	106	0.309	≤0.4	PASS
2DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	160	0.267	≤0.4	PASS
2DH5	Ant1	Hop	2.915	93	0.271	≤0.4	PASS
3DH1	Ant1	Hop	0.415	320	0.133	≤0.4	PASS
3DH3	Ant1	Hop	1.666	177	0.295	≤0.4	PASS
3DH5	Ant1	Hop	2.917	103	0.3	≤0.4	PASS

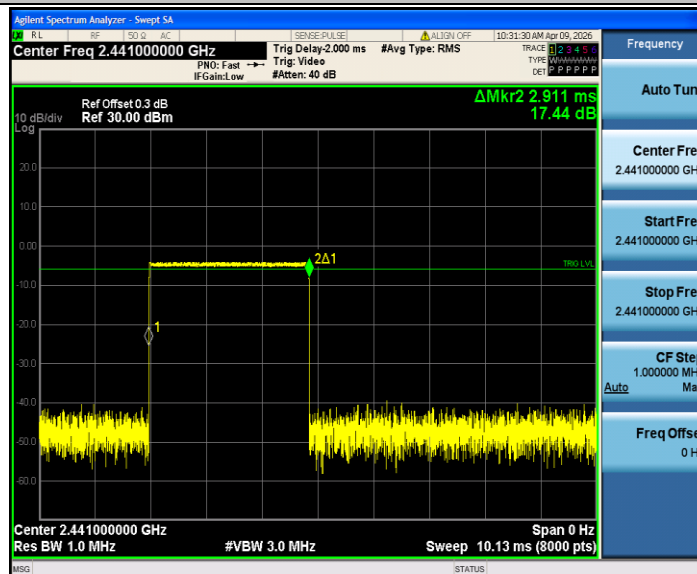
Test Graphs

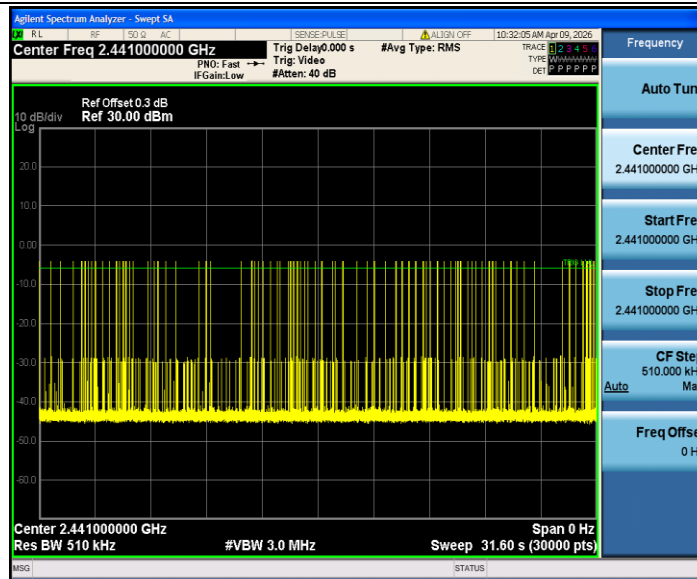


DH3_Ant1_Hop

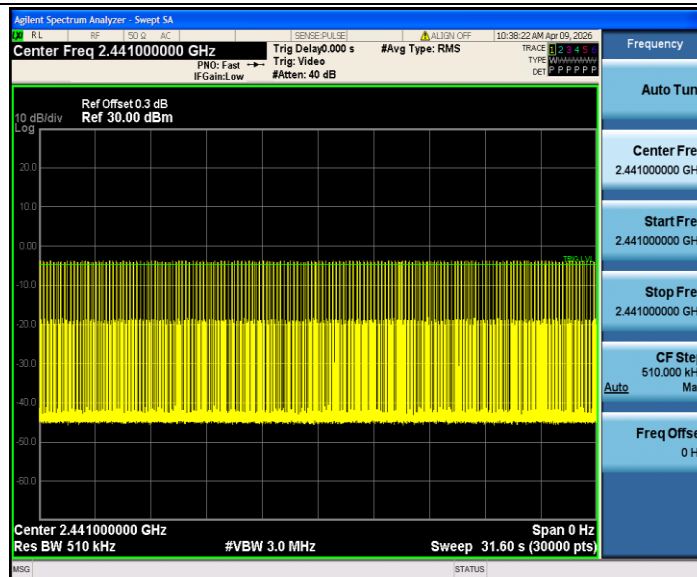
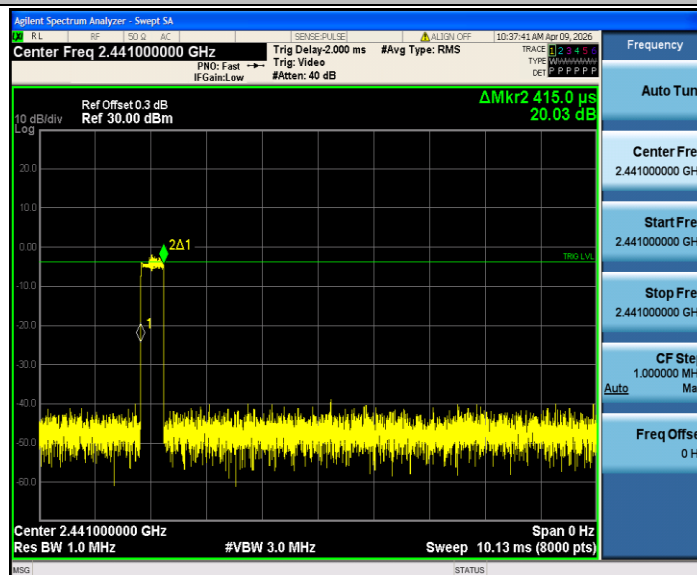


DH5_Ant1_Hop

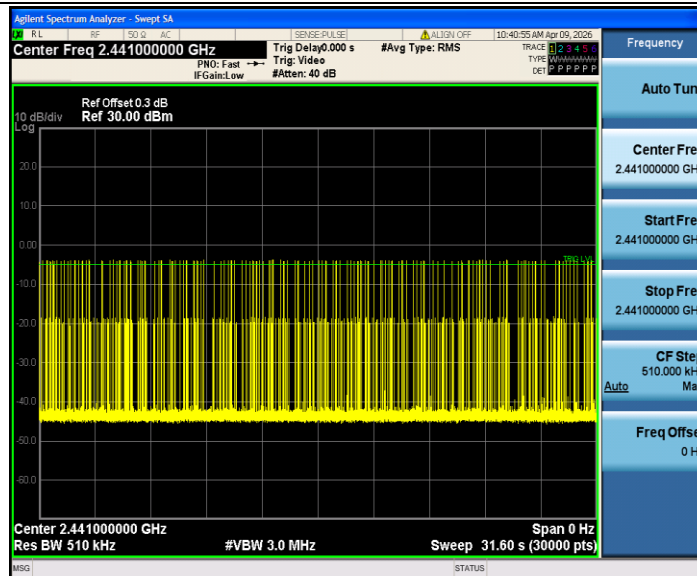
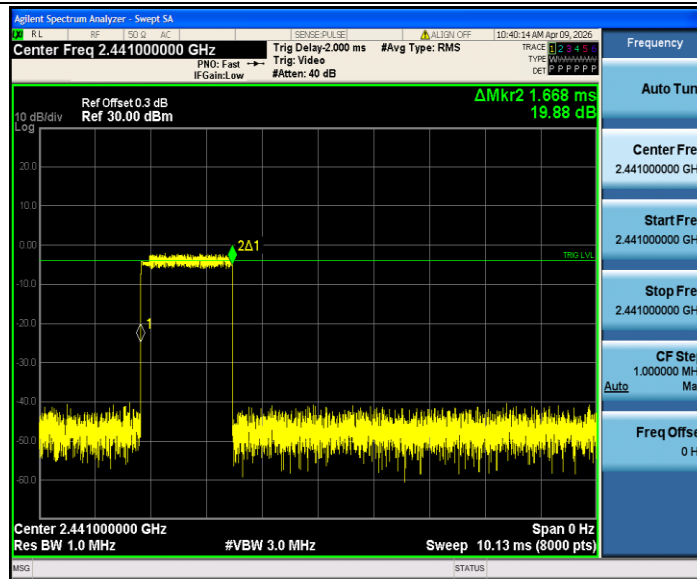




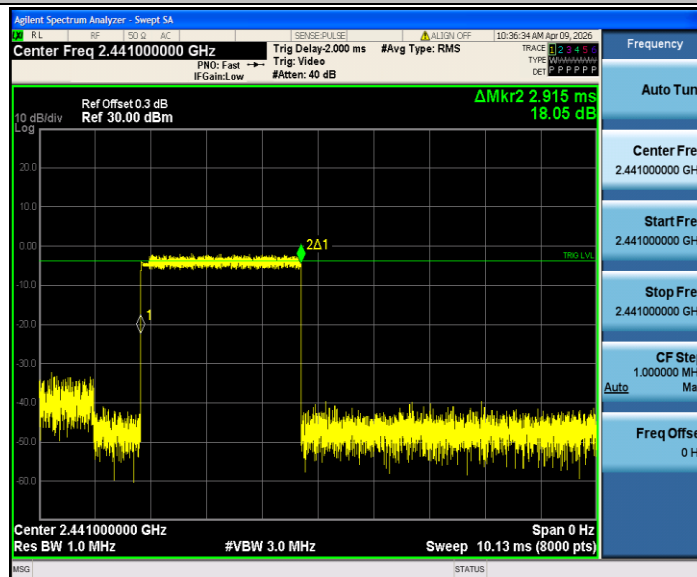
2DH1_Ant1_Hop

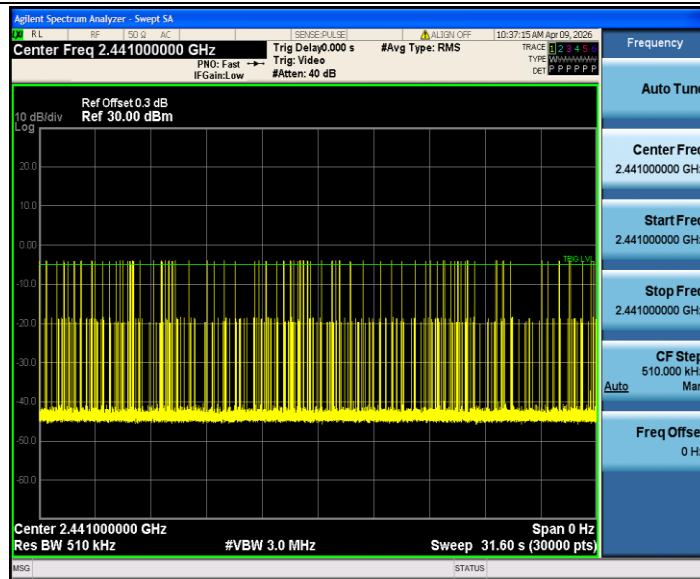


2DH3_Ant1_Hop

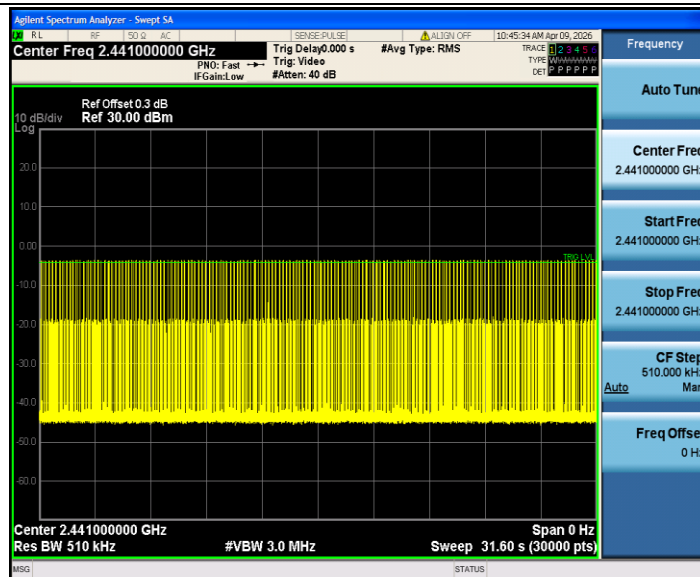
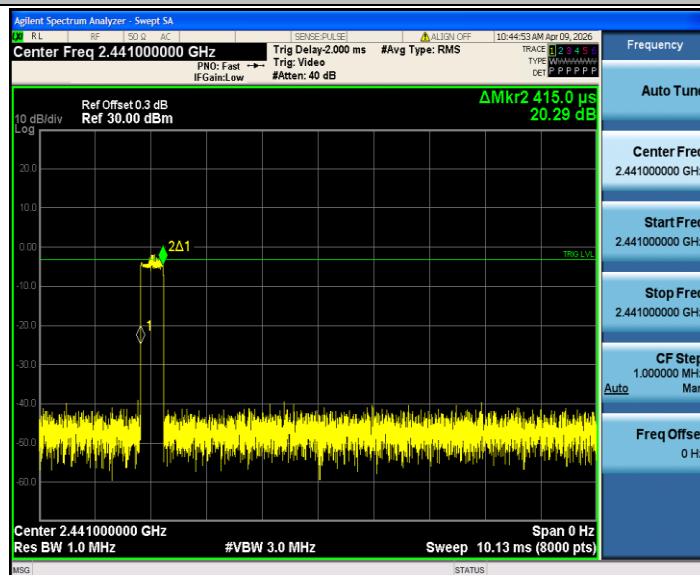


2DH5_Ant1_Hop

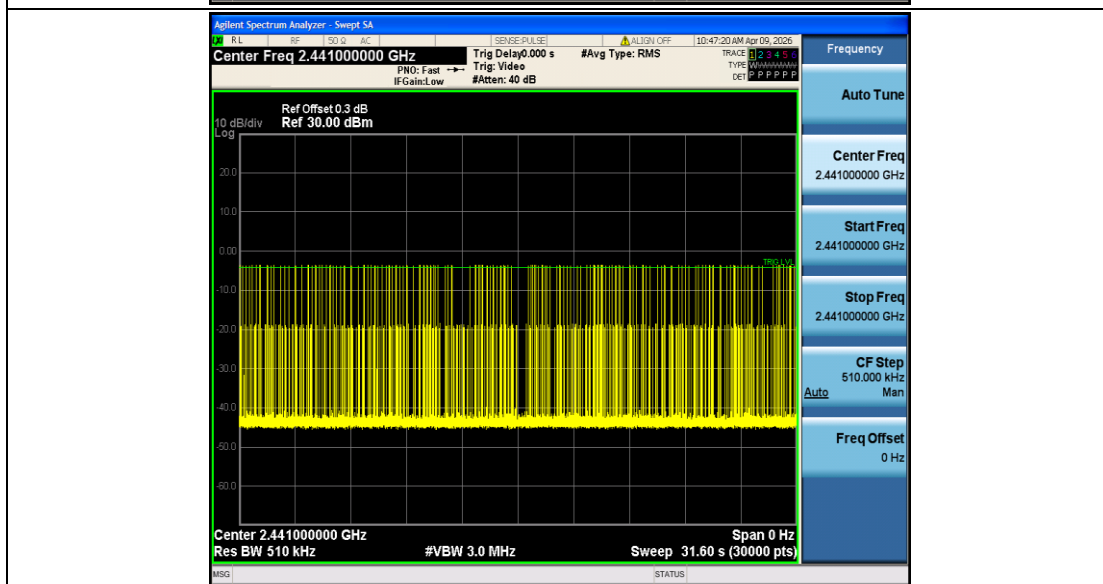
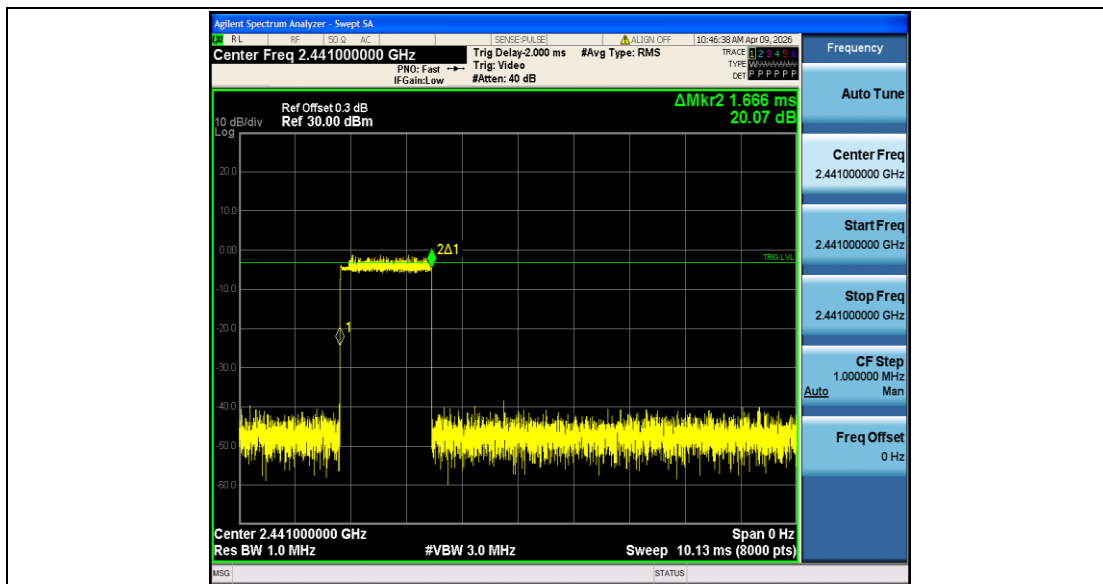




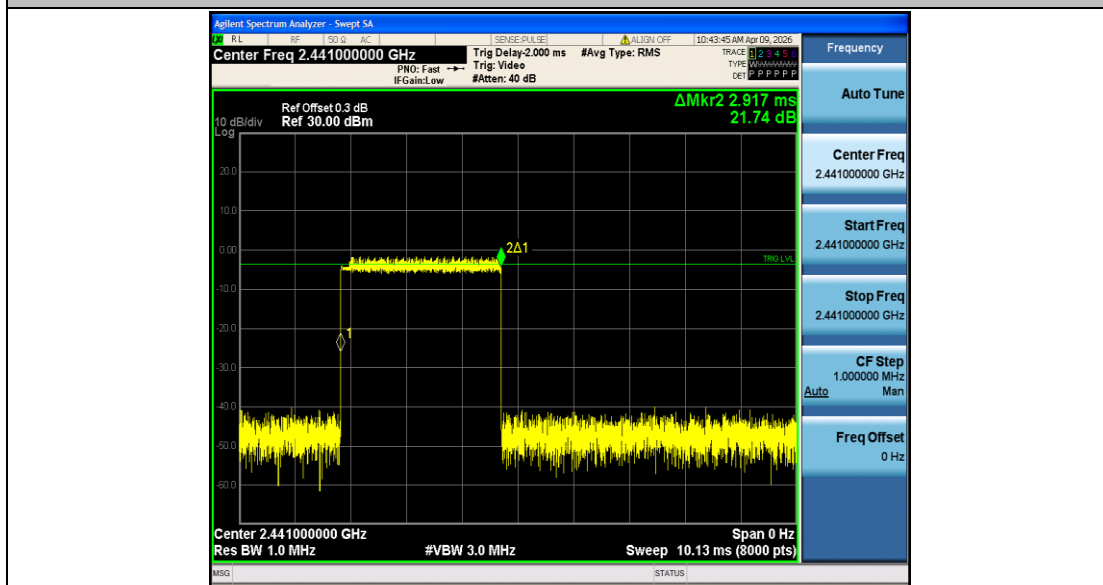
3DH1_Ant1_Hop

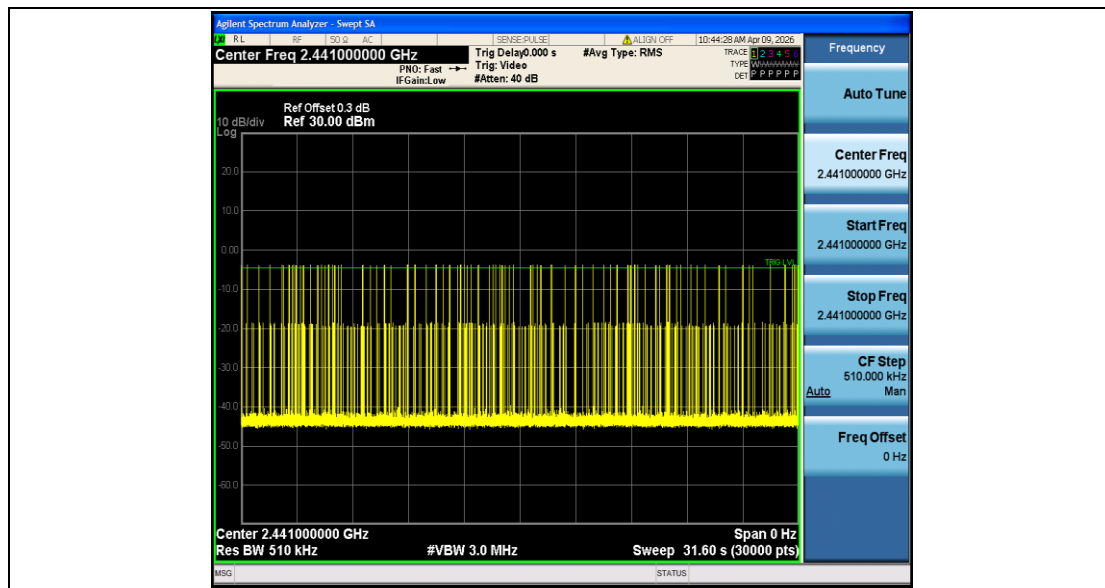


3DH3_Ant1_Hop



3DH5_Ant1_Hop



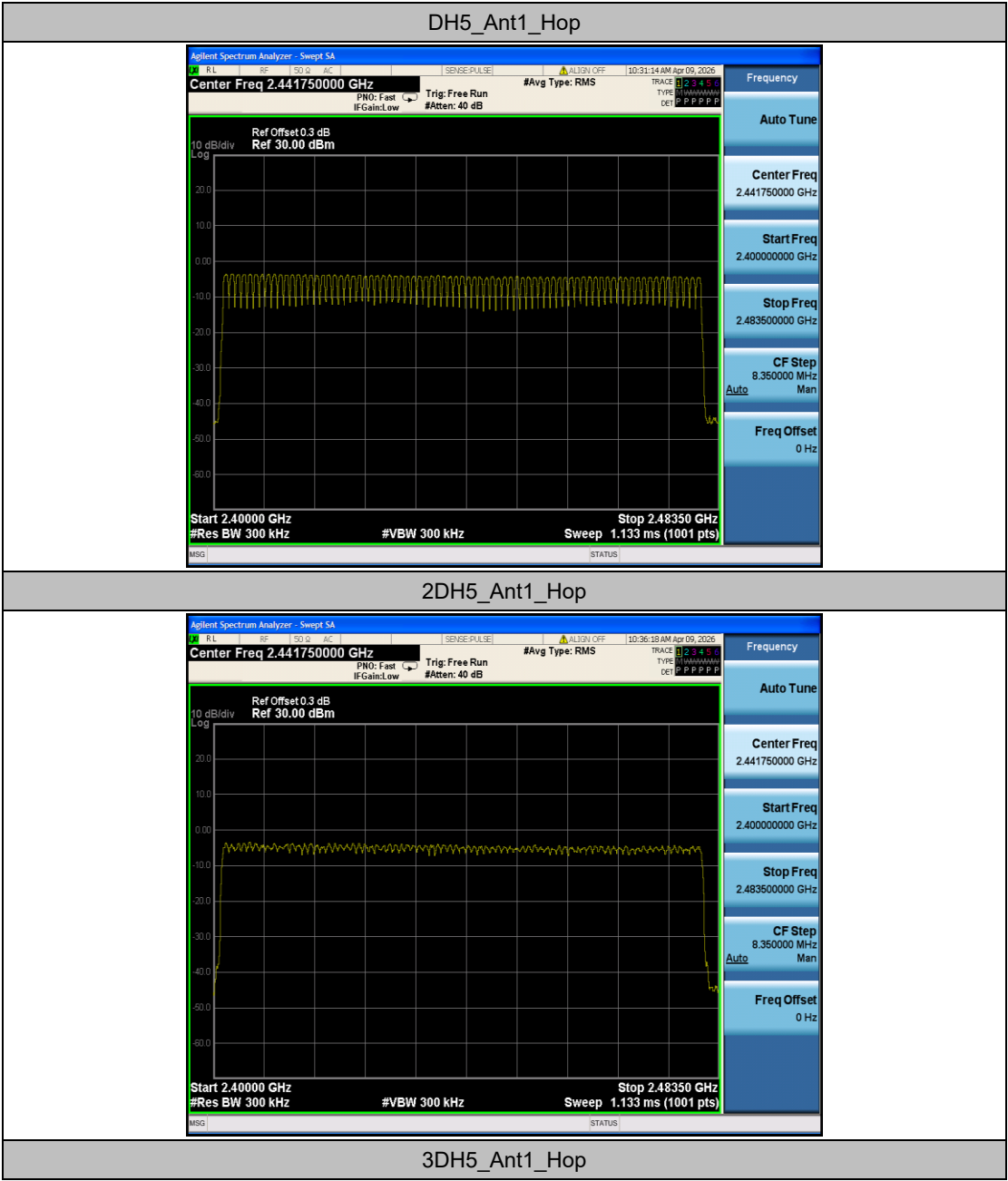


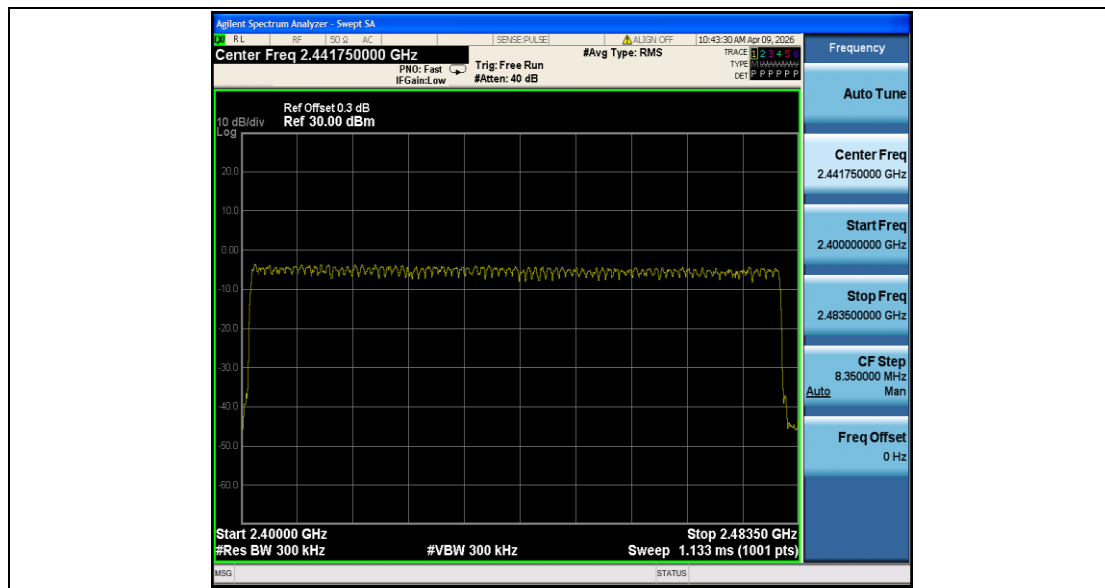
Appendix F: Number of hopping channels

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



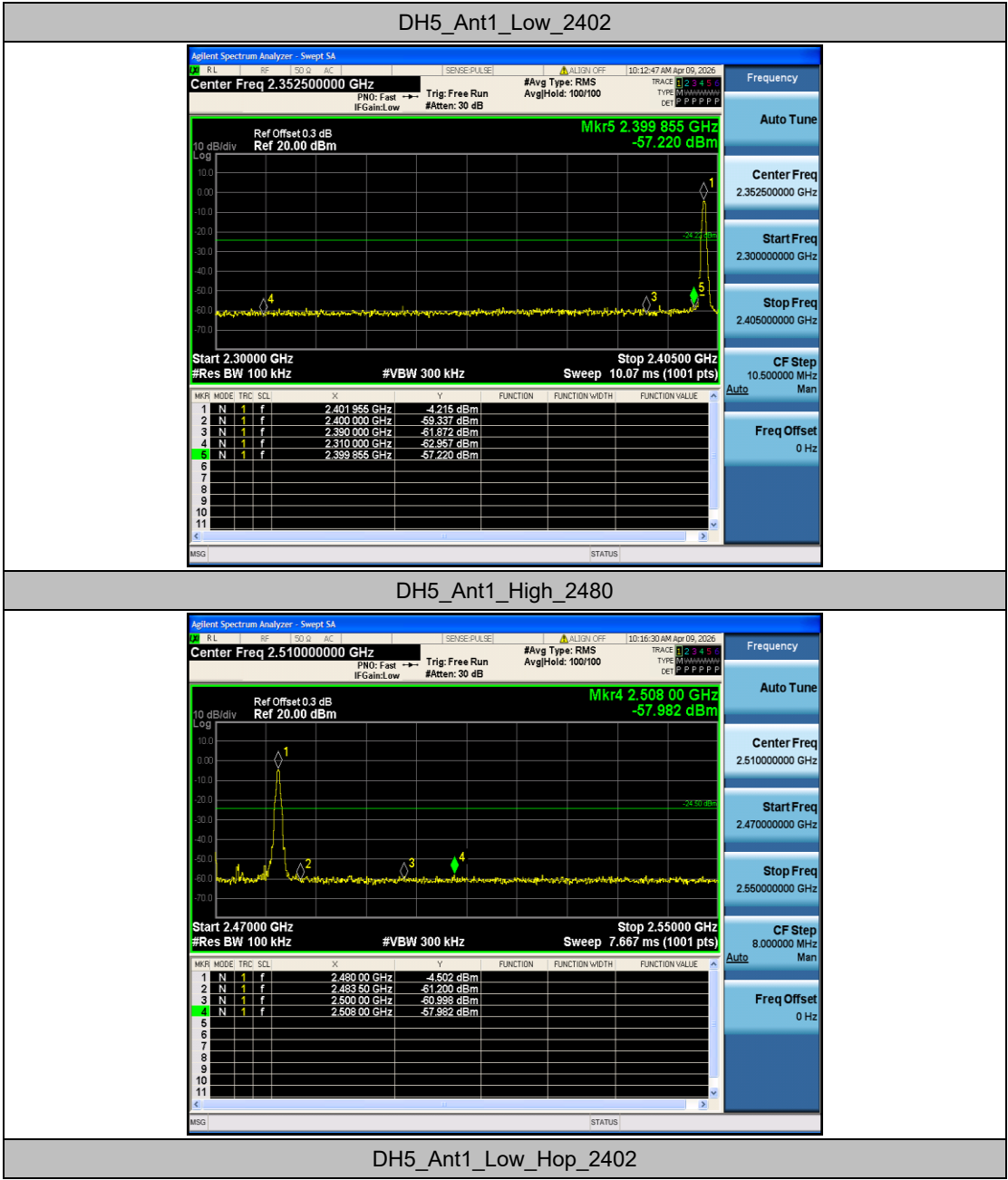


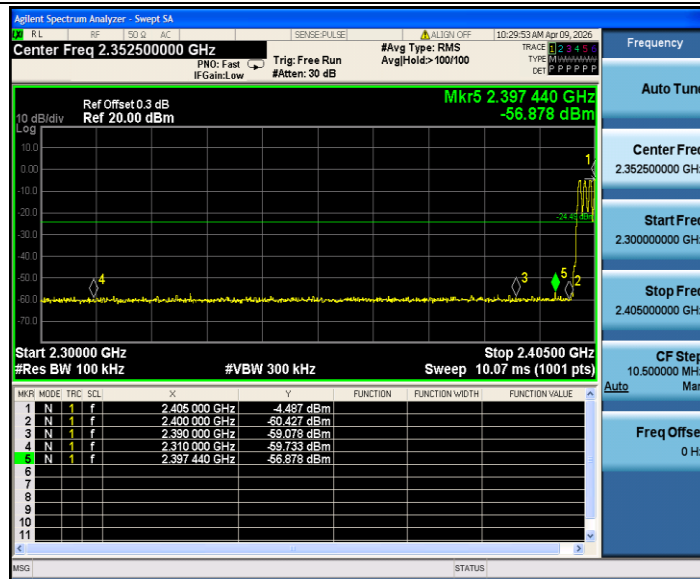
Appendix G: Band edge measurements

Test Result

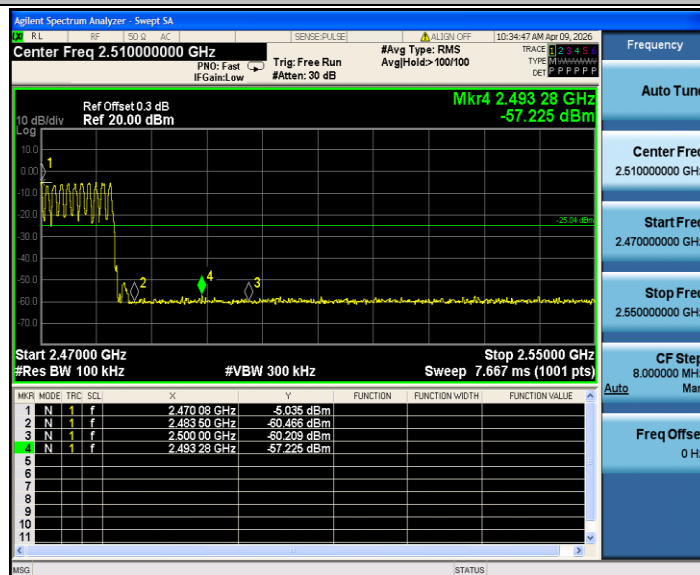
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.22	-57.22	≤ -24.22	PASS
		High	2480	-4.50	-57.98	≤ -24.5	PASS
		Low	Hop_2402	-4.49	-56.88	≤ -24.49	PASS
		High	Hop_2480	-5.04	-57.23	≤ -25.04	PASS
2DH5	Ant1	Low	2402	-3.49	-56.94	≤ -23.49	PASS
		High	2480	-5.52	-57.68	≤ -25.52	PASS
		Low	Hop_2402	-6.03	-57.53	≤ -26.03	PASS
		High	Hop_2480	-7.21	-57.47	≤ -27.21	PASS
3DH5	Ant1	Low	2402	-5.86	-56.88	≤ -25.86	PASS
		High	2480	-5.21	-55.91	≤ -25.21	PASS
		Low	Hop_2402	-5.44	-57.59	≤ -25.44	PASS
		High	Hop_2480	-5.68	-58.15	≤ -25.68	PASS

Test Graphs

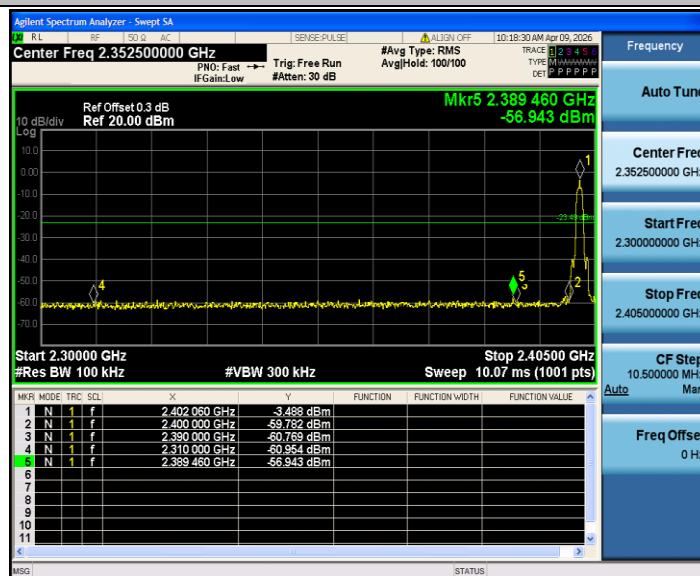




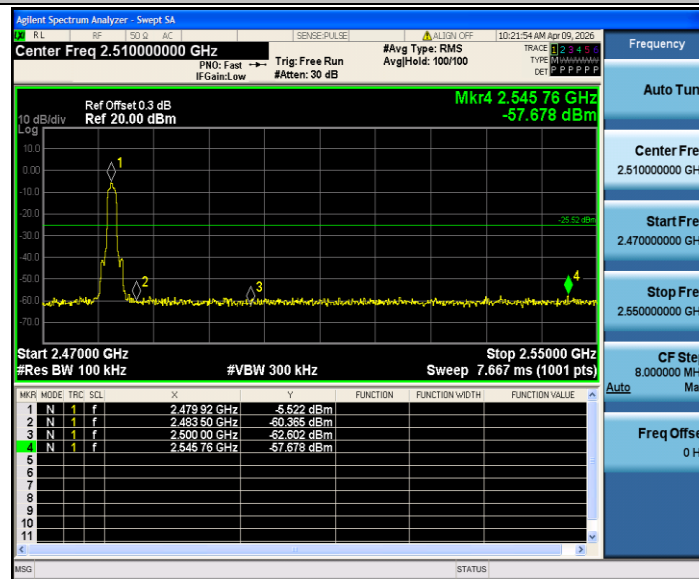
DH5_Ant1_High_Hop_2480



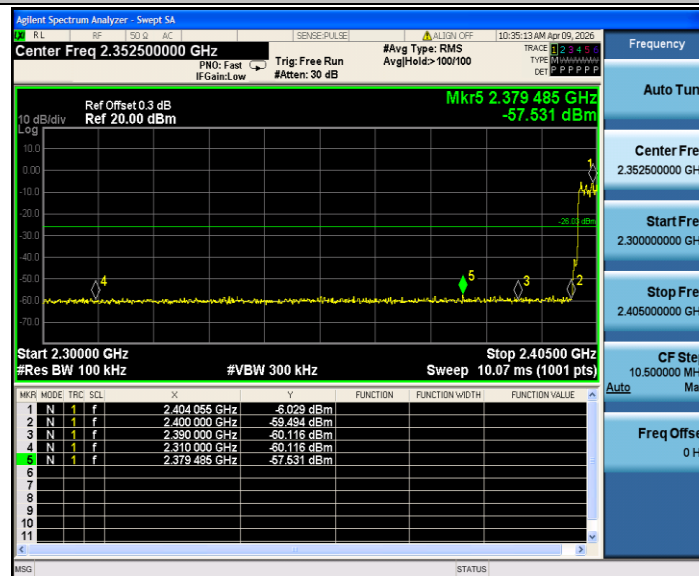
2DH5_Ant1_Low_2402



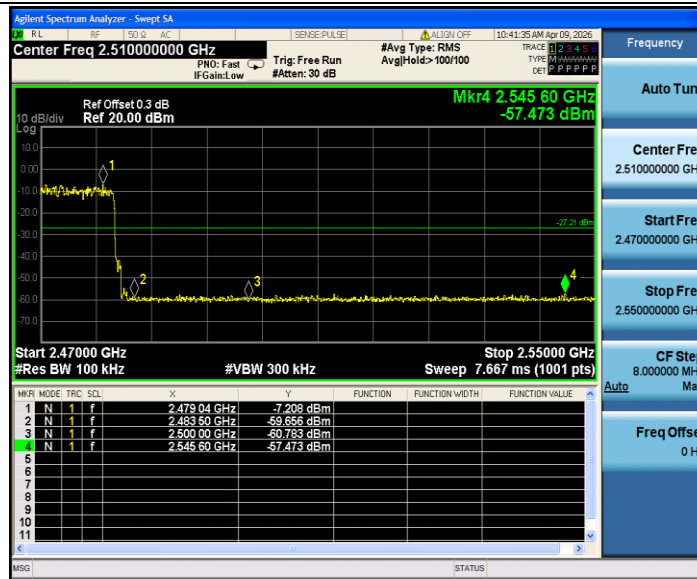
2DH5_Ant1_High_2480



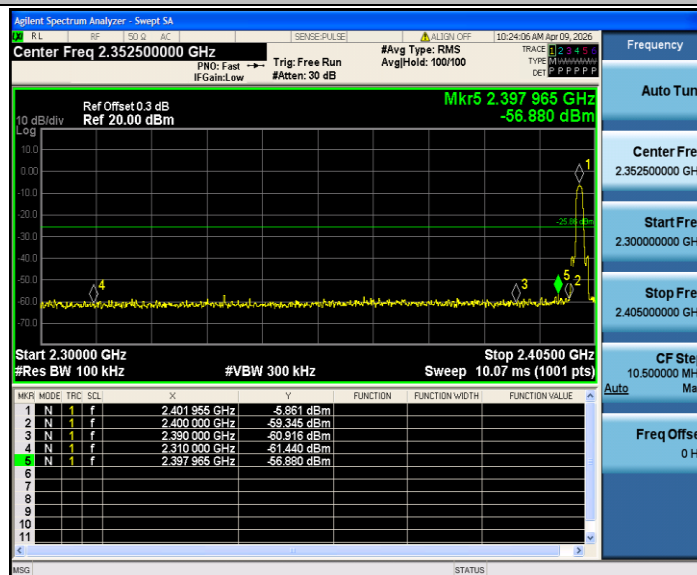
2DH5_Ant1_Low_Hop_2402



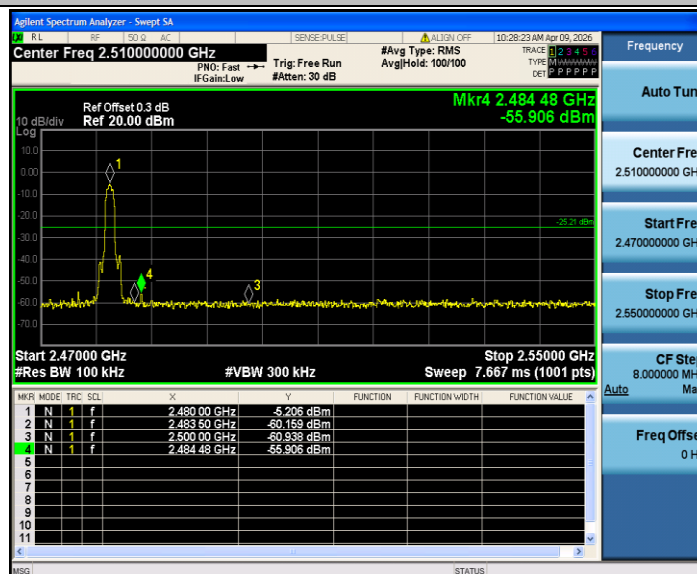
2DH5_Ant1_High_Hop_2480



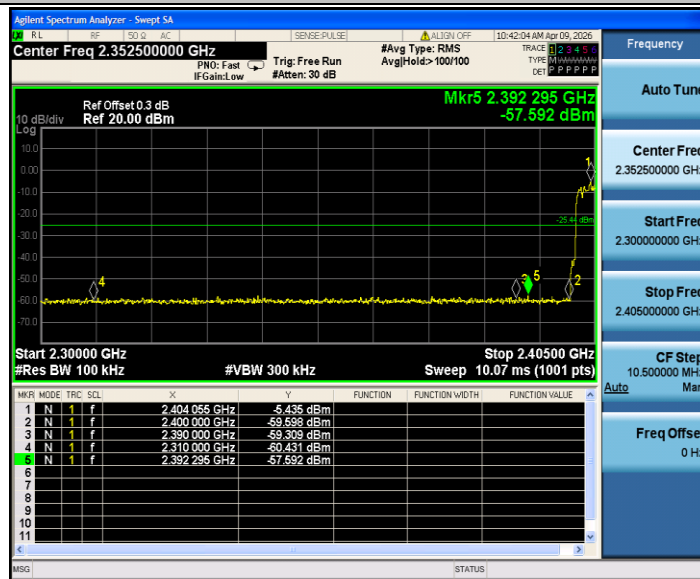
3DH5_Ant1_Low_2402



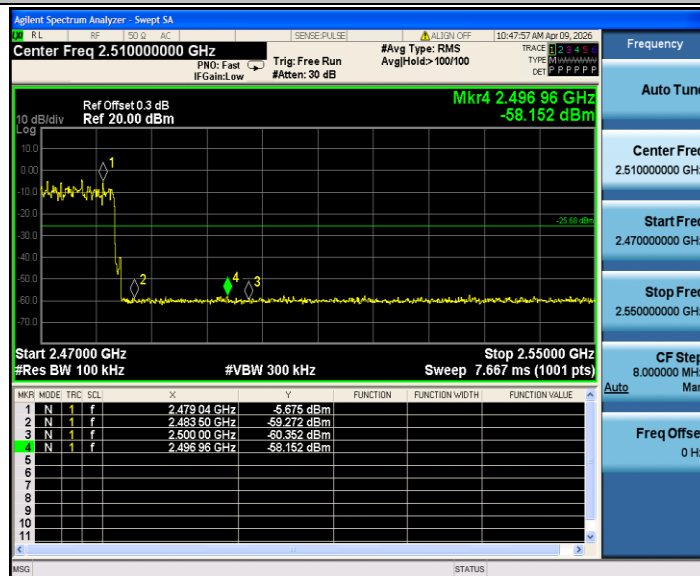
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

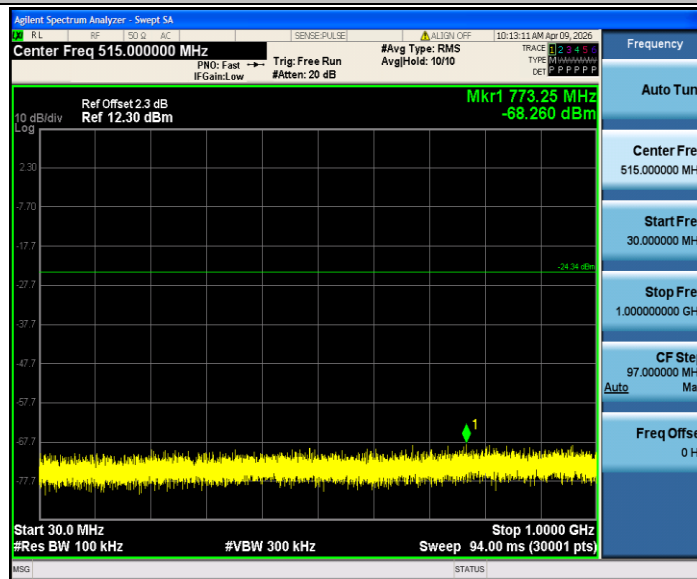
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.34	-4.34	---	PASS
			30~1000	-4.34	-68.26	≤-24.34	PASS
			1000~26500	-4.34	-50.48	≤-24.34	PASS
		2441	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-67.92	≤-25.47	PASS
			1000~26500	-5.47	-48.4	≤-25.47	PASS
		2480	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-67.66	≤-24.61	PASS
			1000~26500	-4.61	-48.33	≤-24.61	PASS
2DH5	Ant1	2402	Reference	-4.81	-4.81	---	PASS
			30~1000	-4.81	-67.51	≤-24.81	PASS
			1000~26500	-4.81	-51.07	≤-24.81	PASS
		2441	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-67.85	≤-24.48	PASS
			1000~26500	-4.48	-52.78	≤-24.48	PASS
		2480	Reference	-5.31	-5.31	---	PASS
			30~1000	-5.31	-68.36	≤-25.31	PASS
			1000~26500	-5.31	-46.6	≤-25.31	PASS
3DH5	Ant1	2402	Reference	-6.34	-6.34	---	PASS
			30~1000	-6.34	-68.33	≤-26.34	PASS
			1000~26500	-6.34	-51.16	≤-26.34	PASS
		2441	Reference	-6.95	-6.95	---	PASS
			30~1000	-6.95	-67.37	≤-26.95	PASS
			1000~26500	-6.95	-51.83	≤-26.95	PASS
		2480	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-67.63	≤-24.48	PASS
			1000~26500	-4.48	-46.36	≤-24.48	PASS

Test Graphs

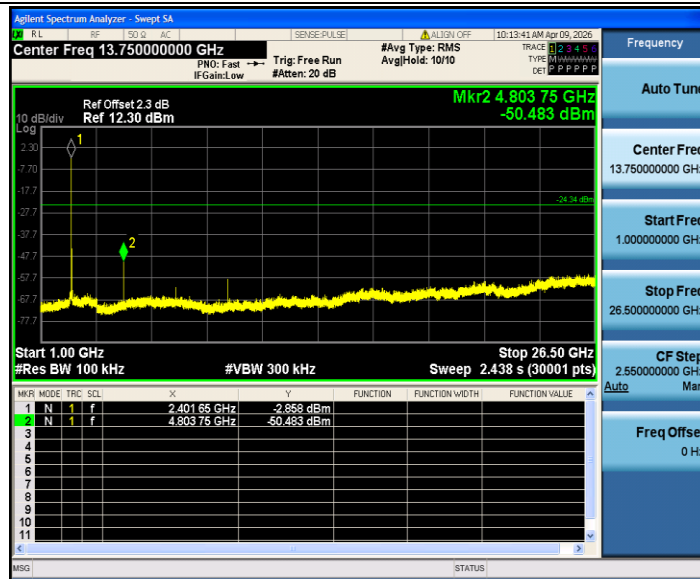
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



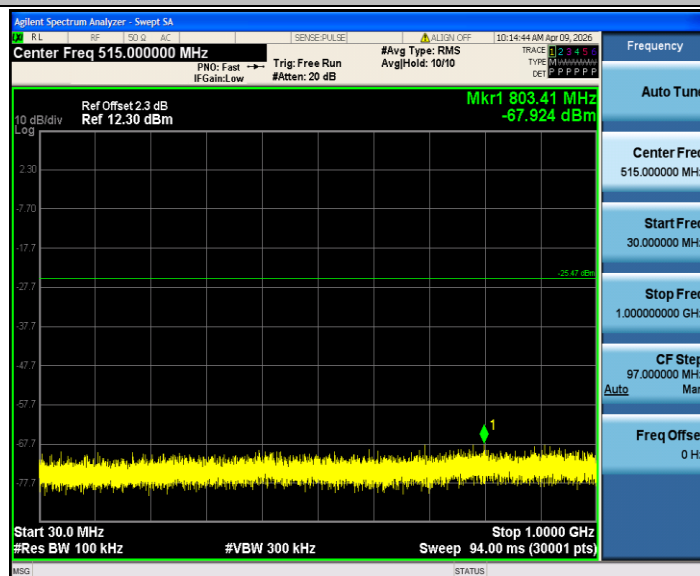
DH5_Ant1_2402_1000~26500



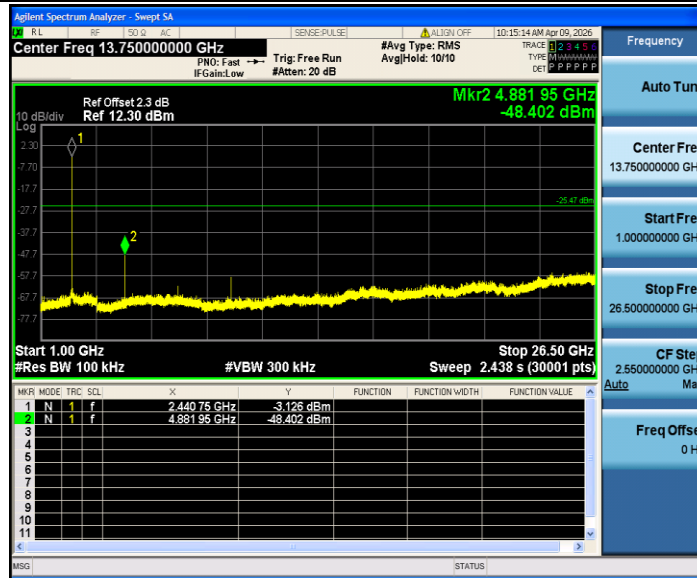
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



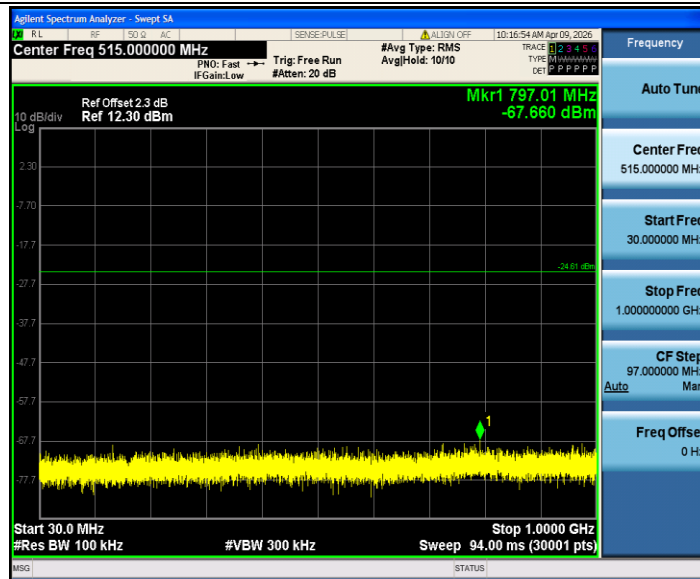
DH5_Ant1_2441_1000~26500



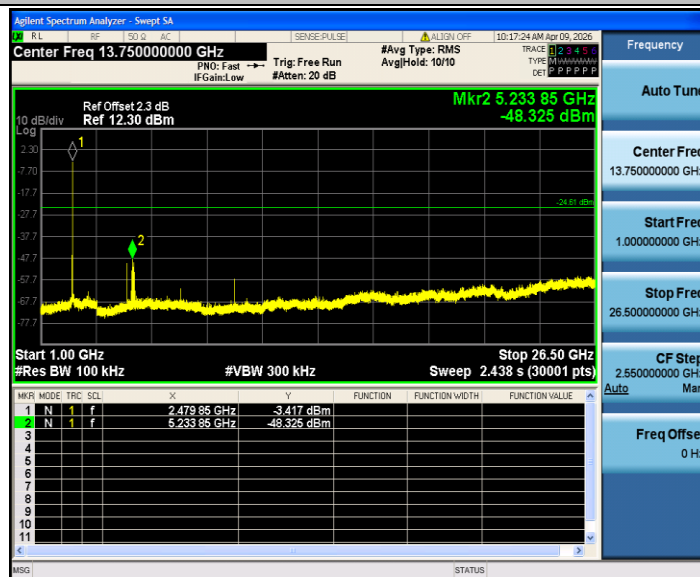
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



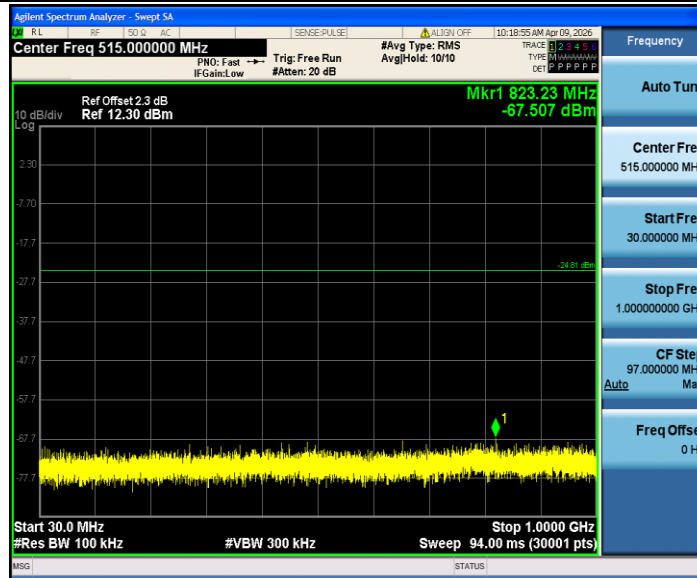
DH5_Ant1_2480_1000~26500



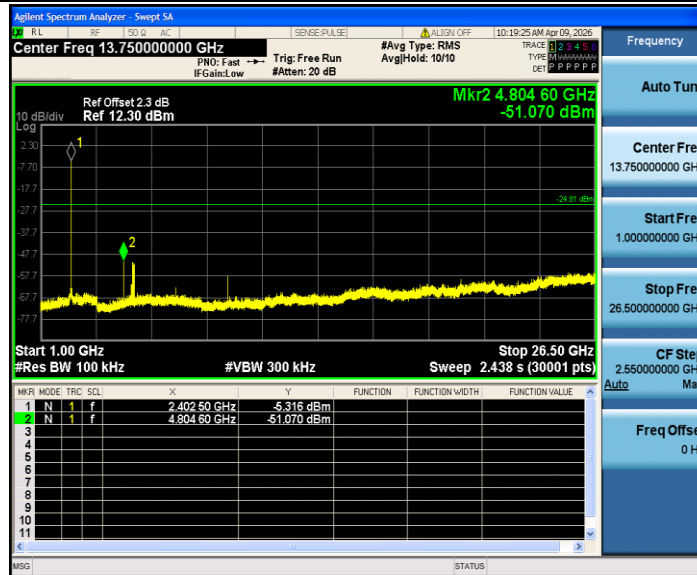
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference