

FCC Appendix RF Test Data for BT

FCC ID : 2BXL6-MORTALX5S

Company : Shenzhen Xinghe Video Communication Co., Ltd

EUT : TV BOX

Model Number : MORTAL X5S

Report No. : CTA26070601201

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	0.945	2401.553	2402.498	---	---
		2441	0.945	2440.544	2441.489	---	---
		2480	0.954	2479.544	2480.498	---	---
2DH5	Ant1	2402	1.353	2401.331	2402.684	---	---
		2441	1.326	2440.343	2441.669	---	---
		2480	1.287	2479.376	2480.663	---	---
3DH5	Ant1	2402	1.293	2401.361	2402.654	---	---
		2441	1.323	2440.352	2441.675	---	---
		2480	1.305	2479.361	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

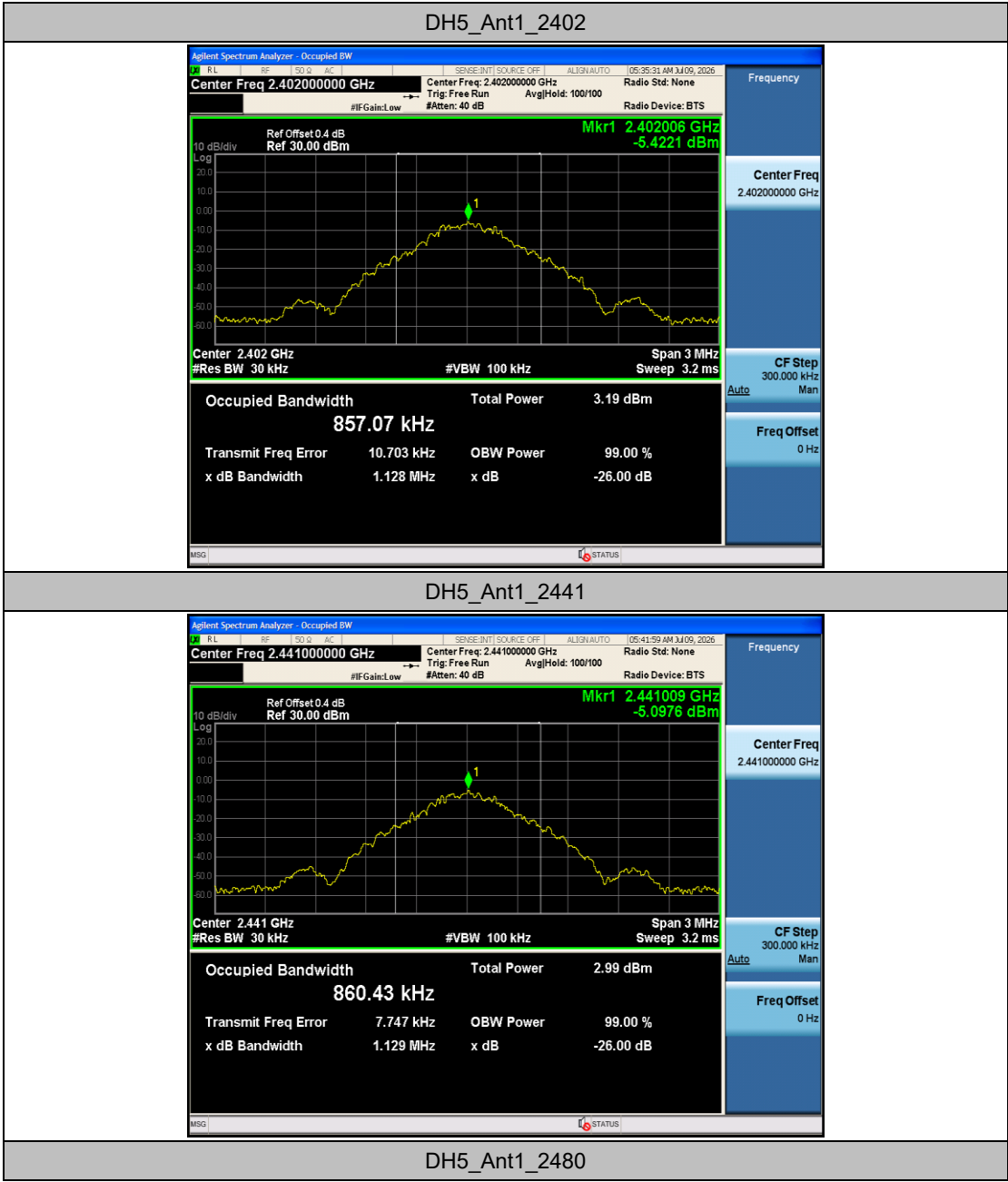


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85707	2401.5822	2402.4392	---	---
		2441	0.86043	2440.5775	2441.4380	---	---
		2480	0.85515	2479.5799	2480.4350	---	---
2DH5	Ant1	2402	1.1824	2401.4186	2402.6010	---	---
		2441	1.1935	2440.4140	2441.6075	---	---
		2480	1.1866	2479.4169	2480.6035	---	---
3DH5	Ant1	2402	1.1951	2401.4098	2402.6049	---	---
		2441	1.1890	2440.4147	2441.6037	---	---
		2480	1.1836	2479.4196	2480.6032	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



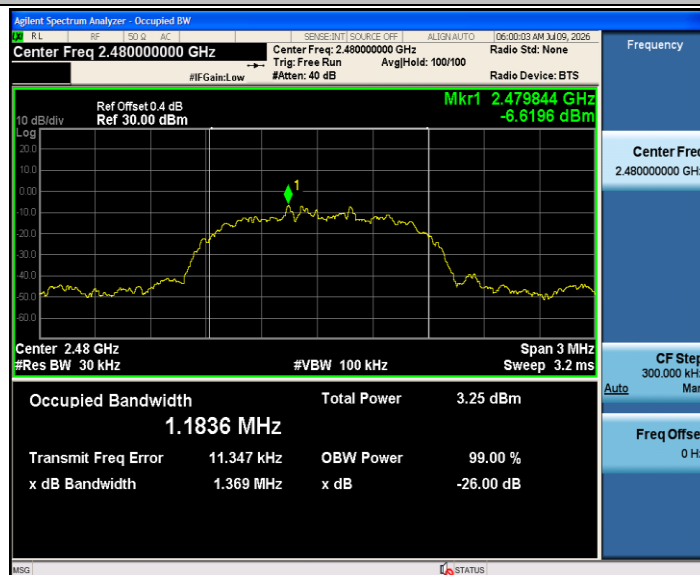
3DH5_Ant1_2402



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	-3.38	≤20.97	PASS
		2441	-3.42	≤20.97	PASS
		2480	-3.69	≤20.97	PASS
2DH5	Ant1	2402	-0.74	≤20.97	PASS
		2441	-0.83	≤20.97	PASS
		2480	-1.01	≤20.97	PASS
3DH5	Ant1	2402	-0.37	≤20.97	PASS
		2441	-0.50	≤20.97	PASS
		2480	-0.66	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.016	≥ 0.954	PASS
2DH5	Ant1	Hop	1.062	≥ 0.902	PASS
3DH5	Ant1	Hop	0.99	≥ 0.882	PASS

Test Graphs



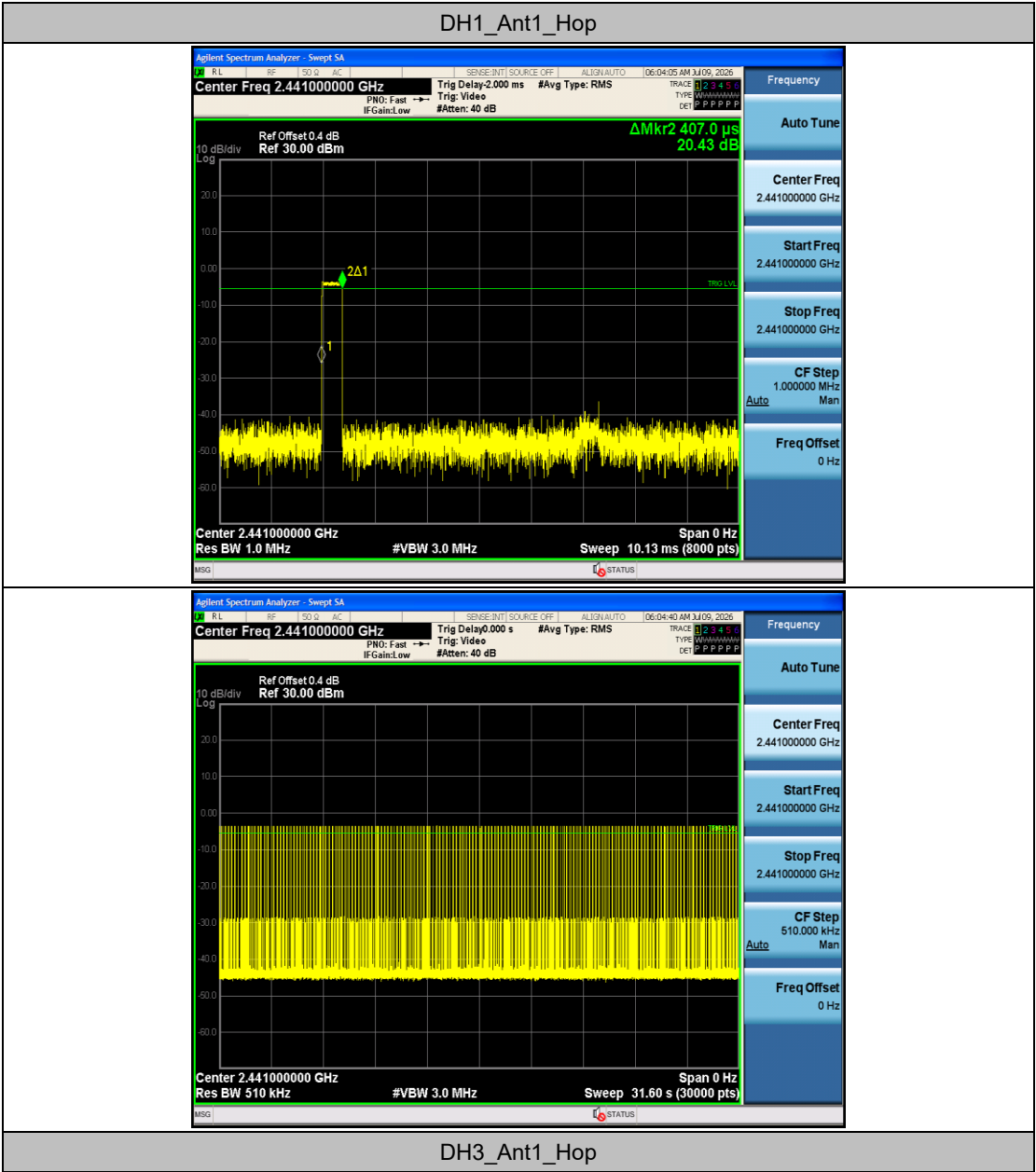


Appendix E: Time of occupancy

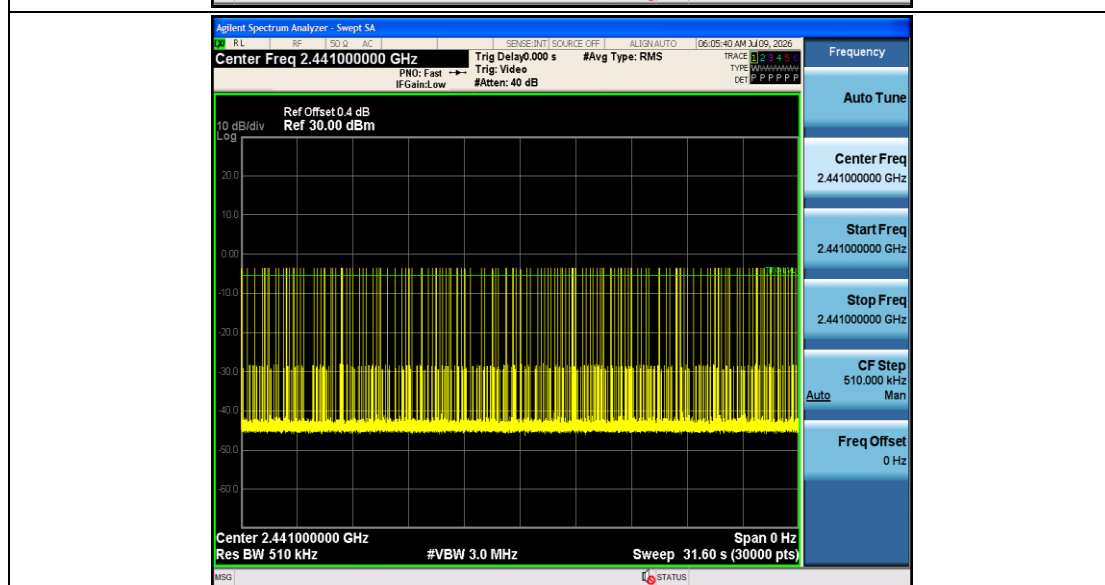
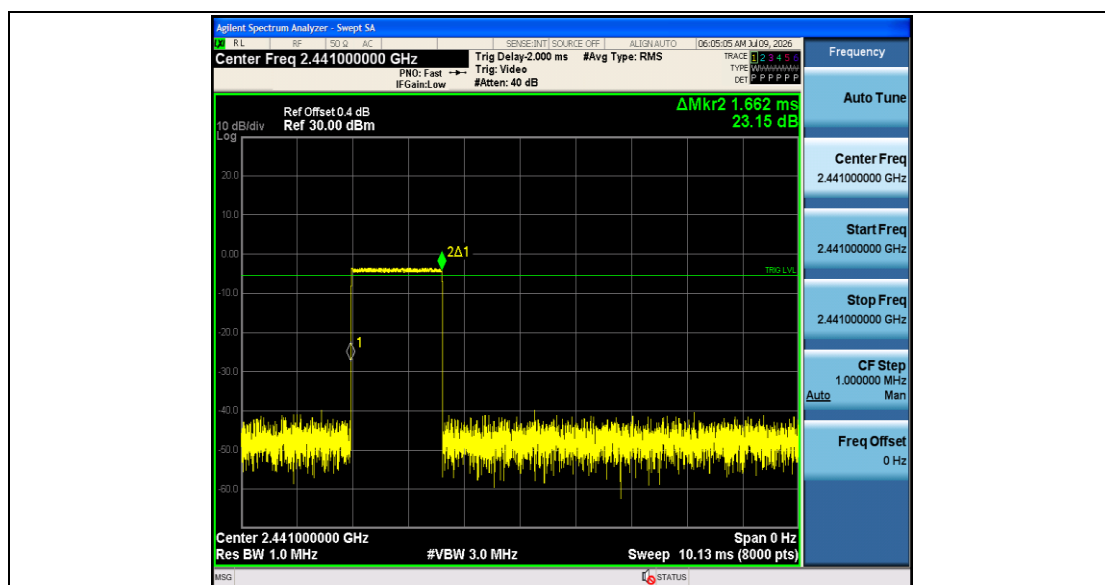
Test Result

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	160	0.266	≤0.4	PASS
DH5	Ant1	Hop	2.911	107	0.311	≤0.4	PASS
2DH1	Ant1	Hop	0.414	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	160	0.267	≤0.4	PASS
2DH5	Ant1	Hop	2.916	100	0.292	≤0.4	PASS
3DH1	Ant1	Hop	0.415	317	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	159	0.265	≤0.4	PASS
3DH5	Ant1	Hop	2.917	89	0.26	≤0.4	PASS

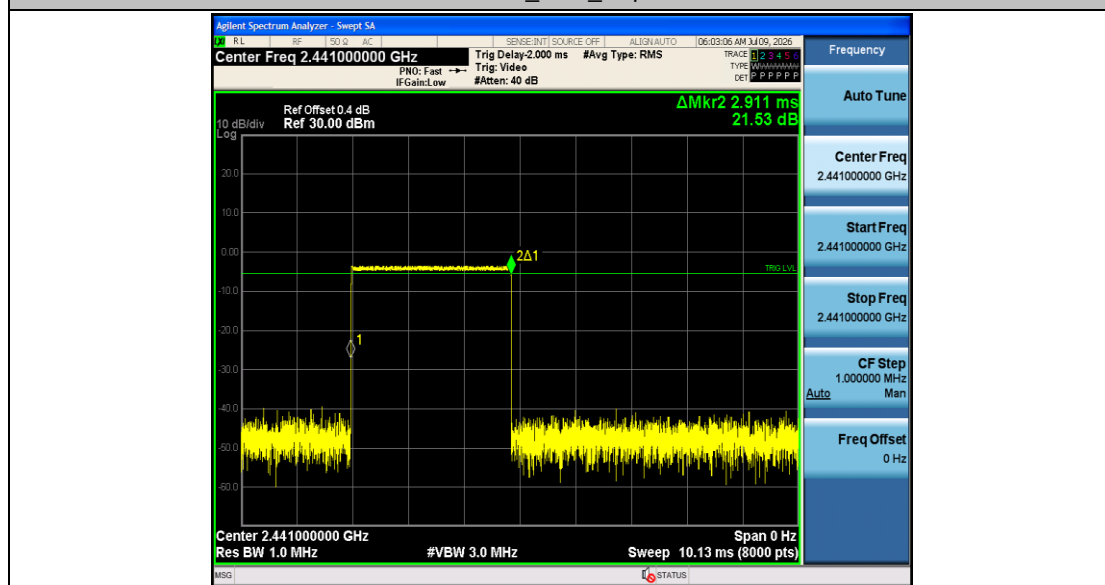
Test Graphs

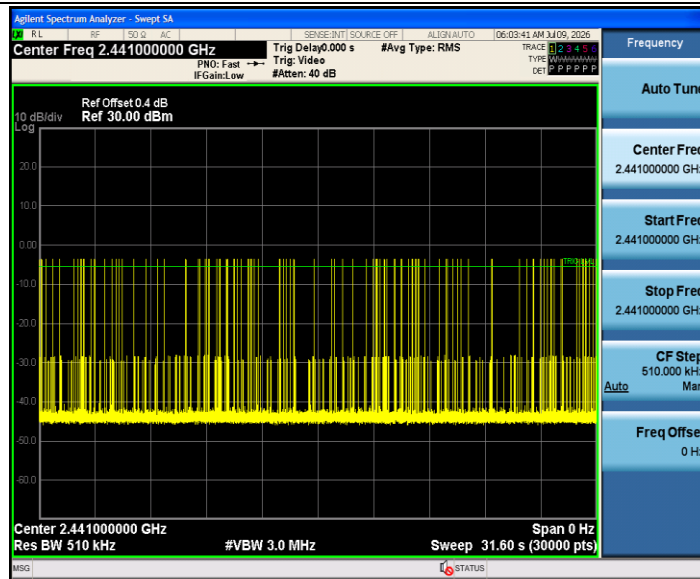


DH3_Ant1_Hop

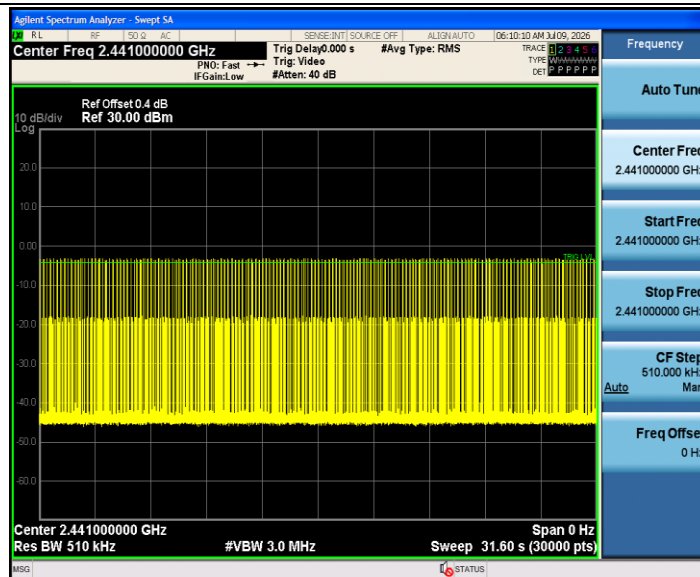
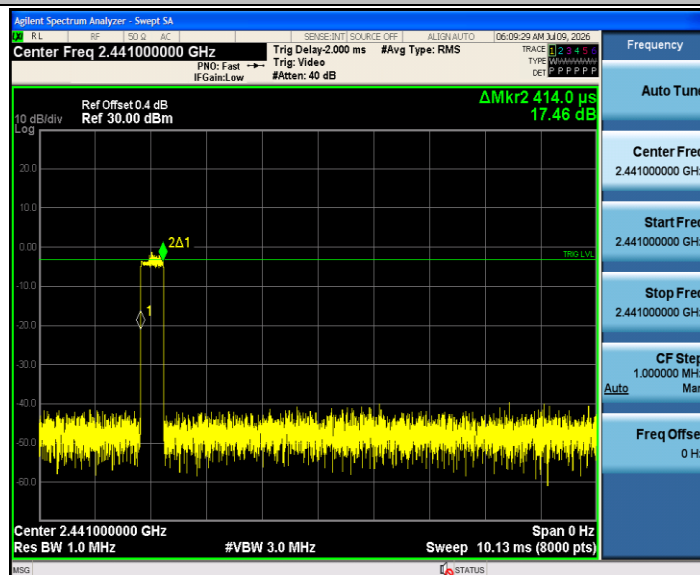


DH5_Ant1_Hop

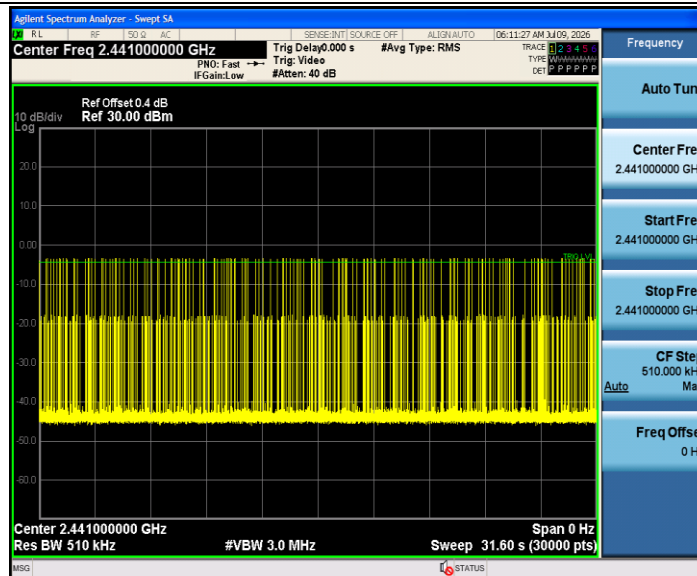
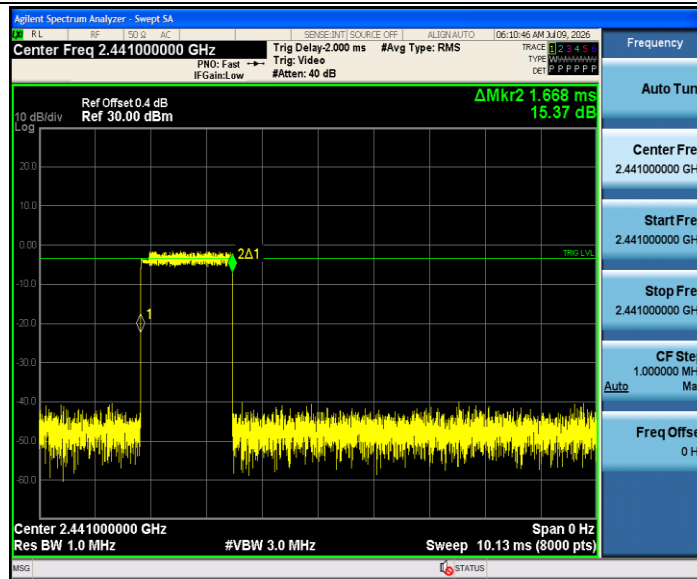




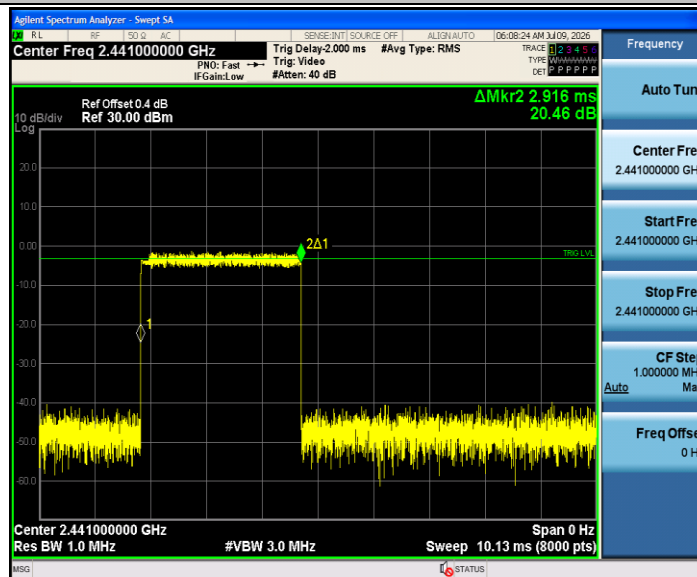
2DH1_Ant1_Hop

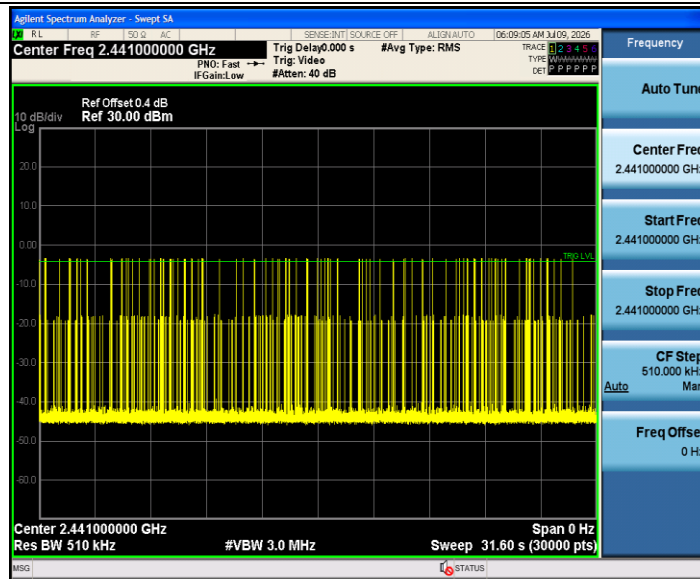


2DH3_Ant1_Hop

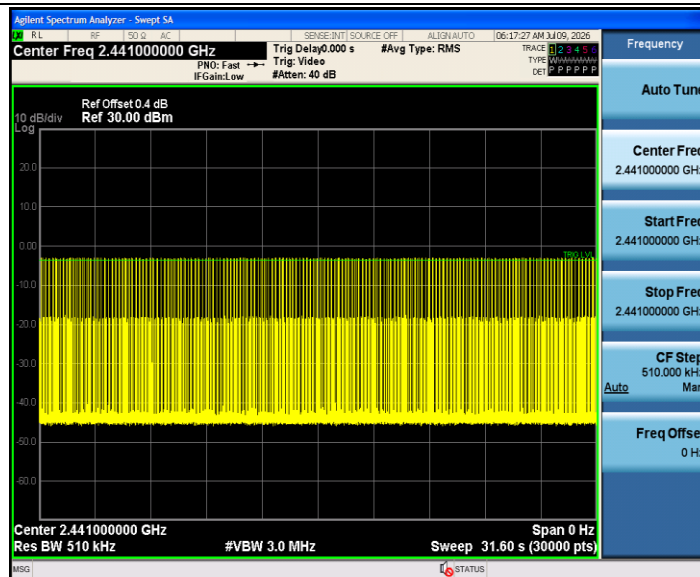
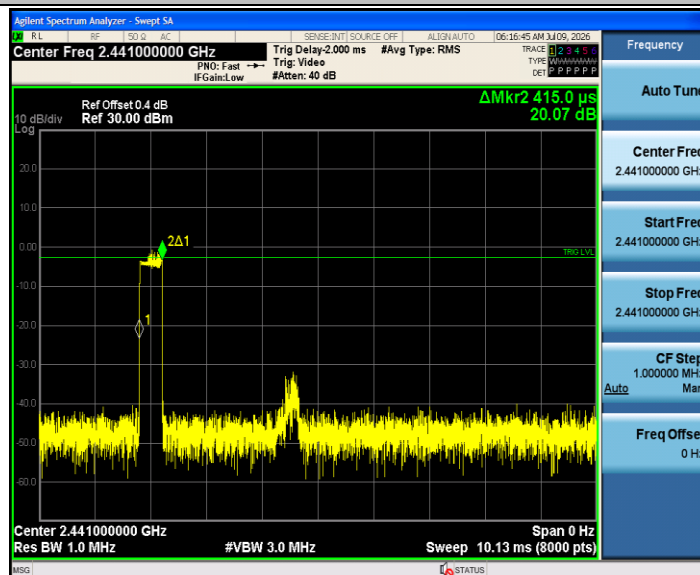


2DH5_Ant1_Hop

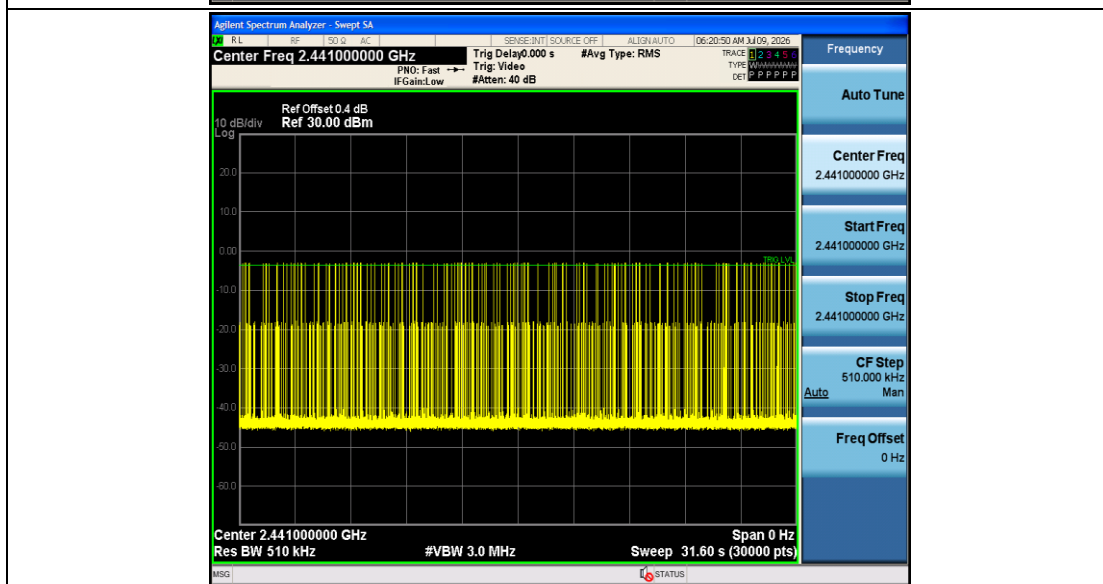
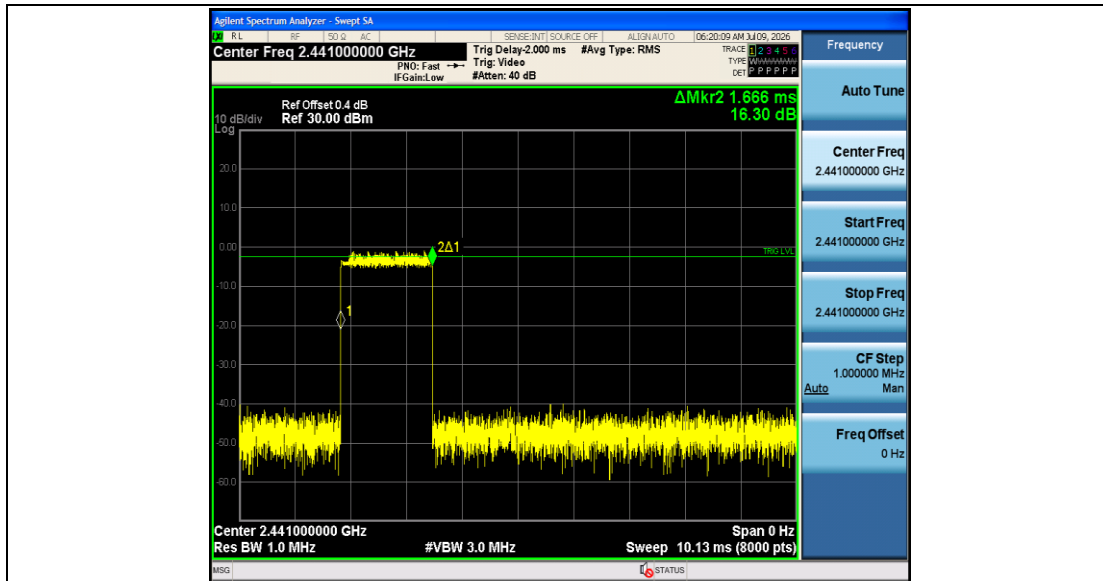




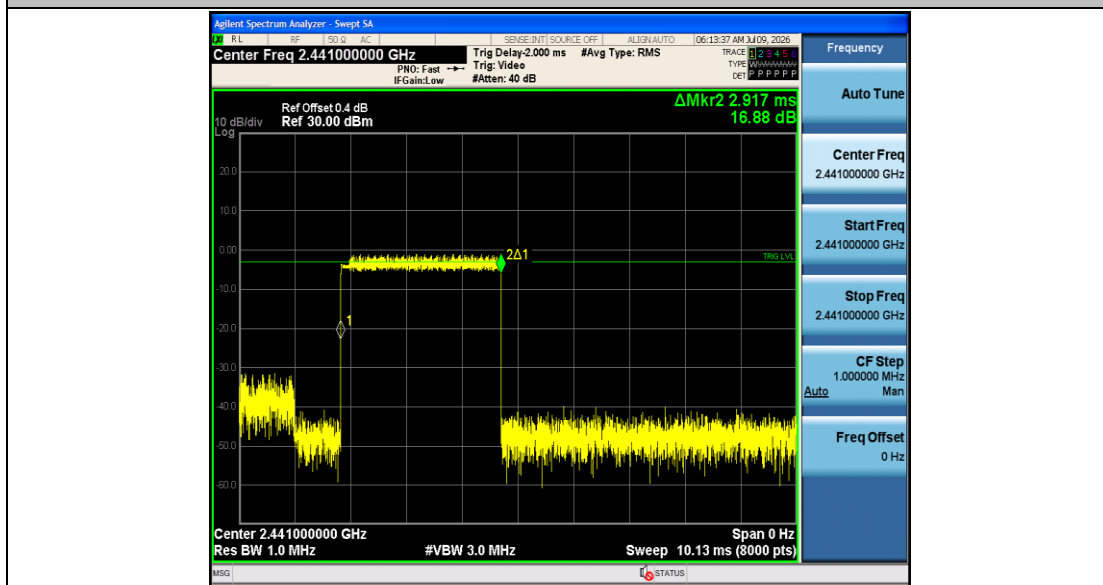
3DH1_Ant1_Hop

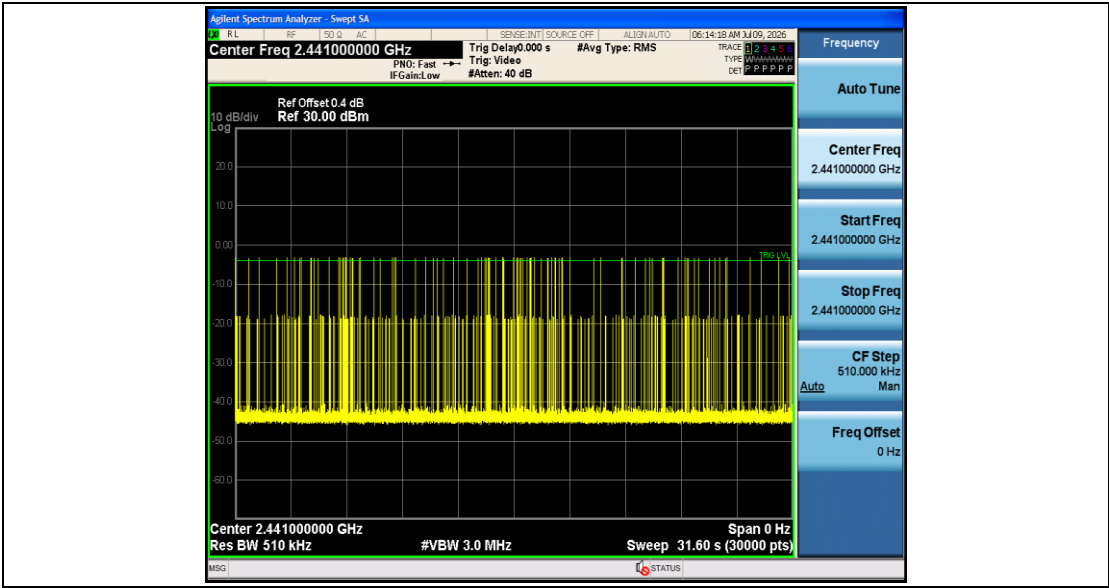


3DH3_Ant1_Hop



3DH5_Ant1_Hop



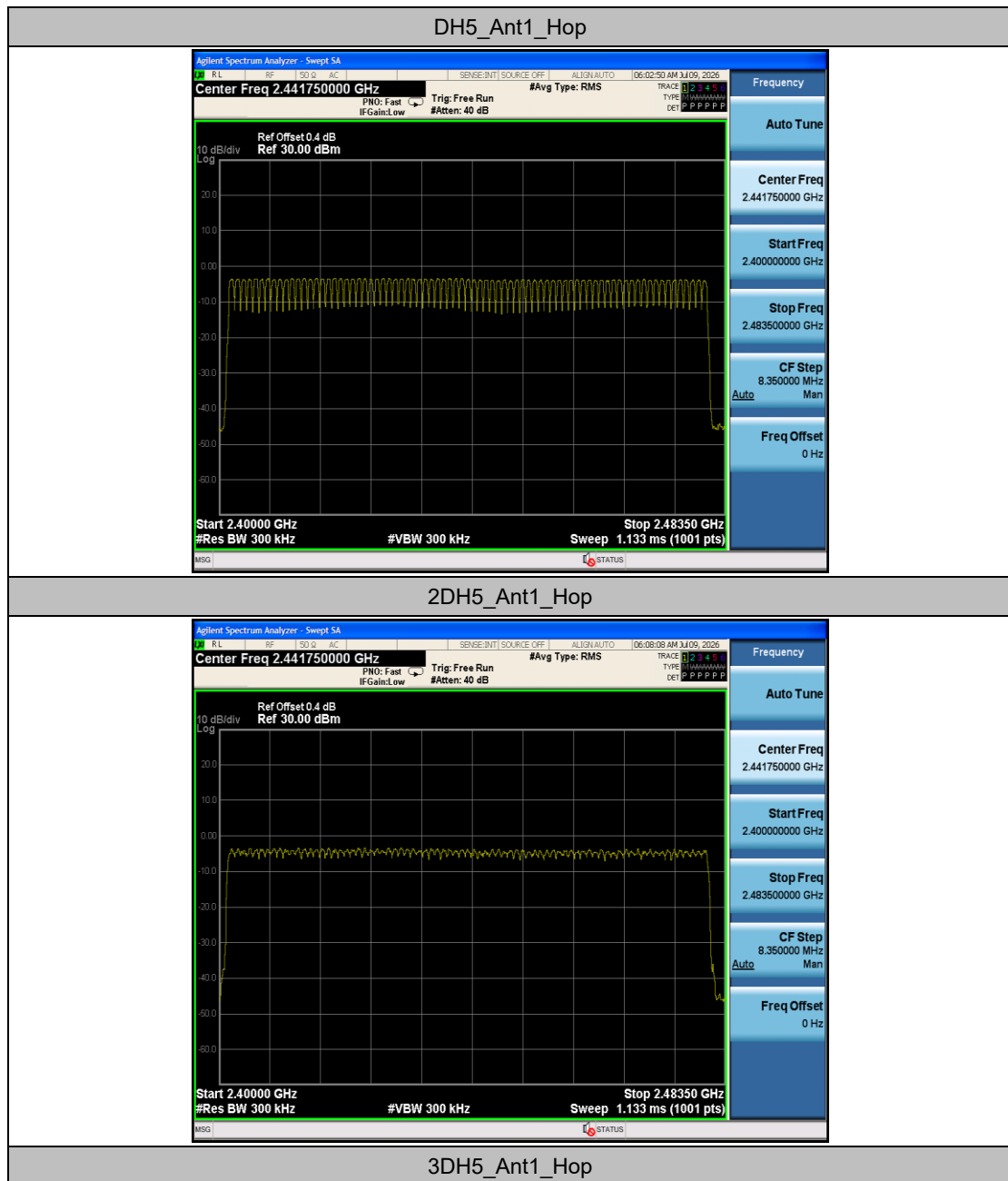


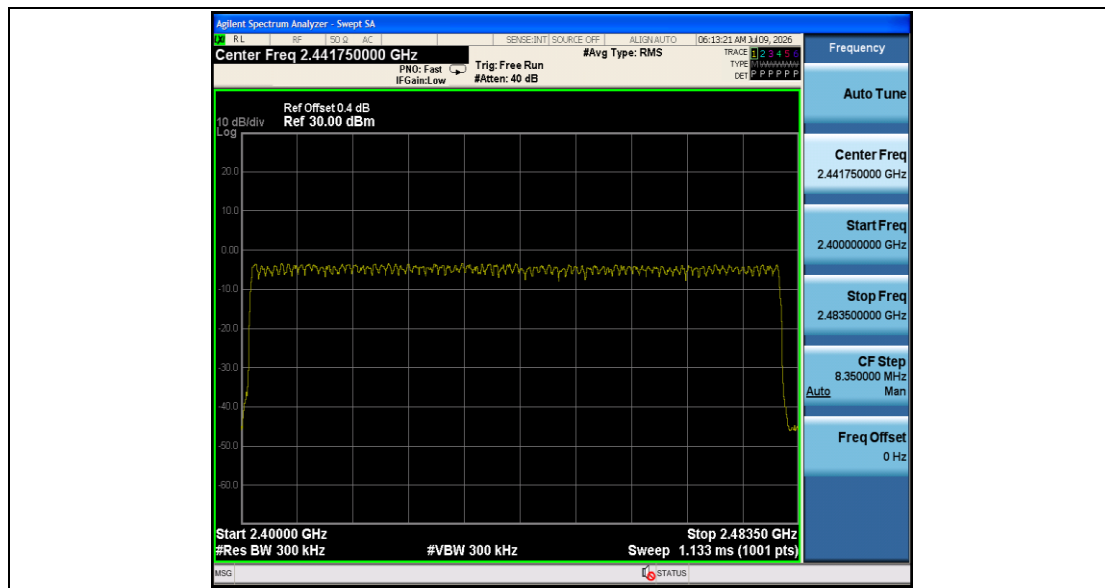
Appendix F: Number of hopping channels

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



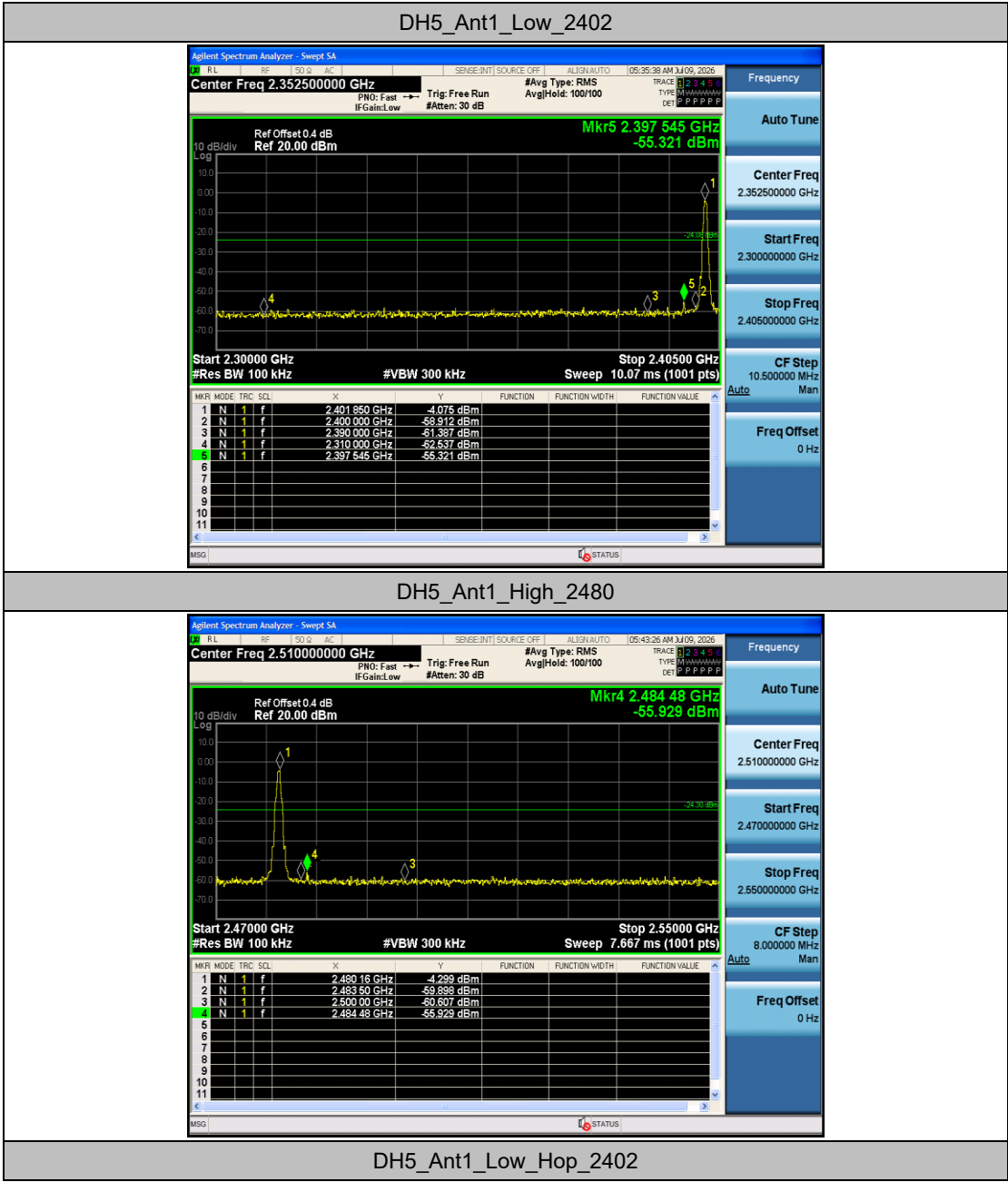


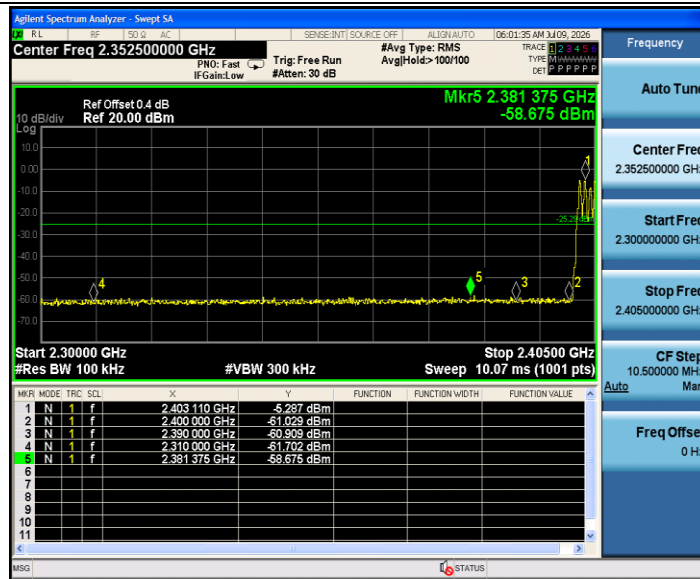
Appendix G: Band edge measurements

Test Result

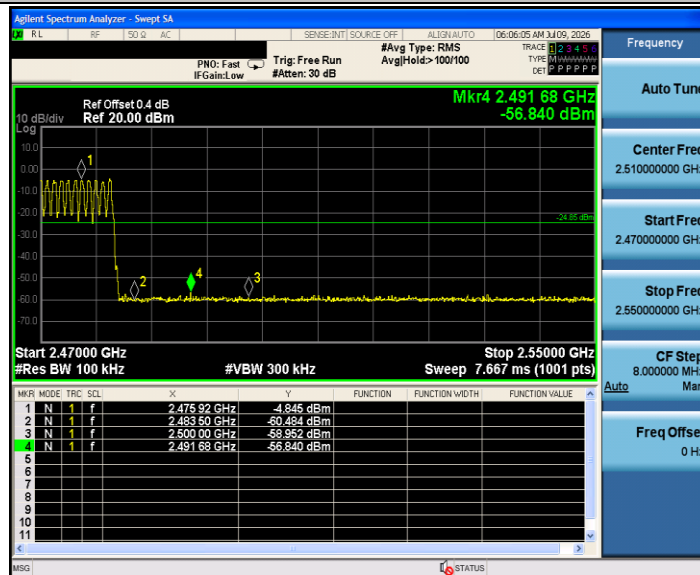
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.08	-55.32	≤ -24.08	PASS
		High	2480	-4.30	-55.93	≤ -24.3	PASS
		Low	Hop_2402	-5.29	-58.68	≤ -25.29	PASS
		High	Hop_2480	-4.85	-56.84	≤ -24.85	PASS
2DH5	Ant1	Low	2402	-5.04	-57.73	≤ -25.04	PASS
		High	2480	-4.87	-56.05	≤ -24.87	PASS
		Low	Hop_2402	-5.27	-57.79	≤ -25.27	PASS
		High	Hop_2480	-6.60	-57.65	≤ -26.6	PASS
3DH5	Ant1	Low	2402	-4.73	-57.74	≤ -24.73	PASS
		High	2480	-4.56	-56.71	≤ -24.56	PASS
		Low	Hop_2402	-5.41	-58.45	≤ -25.41	PASS
		High	Hop_2480	-5.13	-57.51	≤ -25.13	PASS

Test Graphs

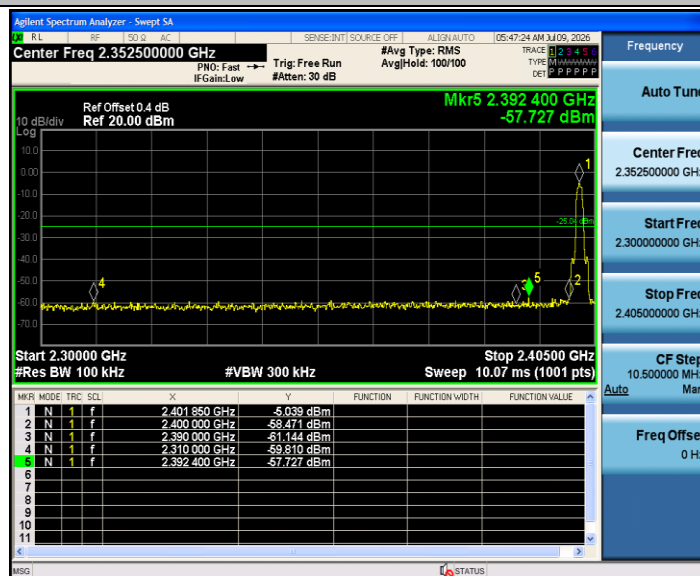




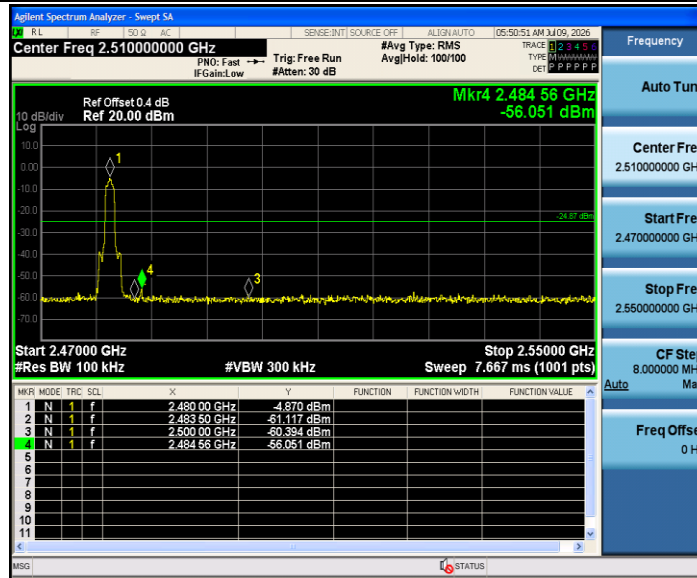
DH5_Ant1_High_Hop_2480



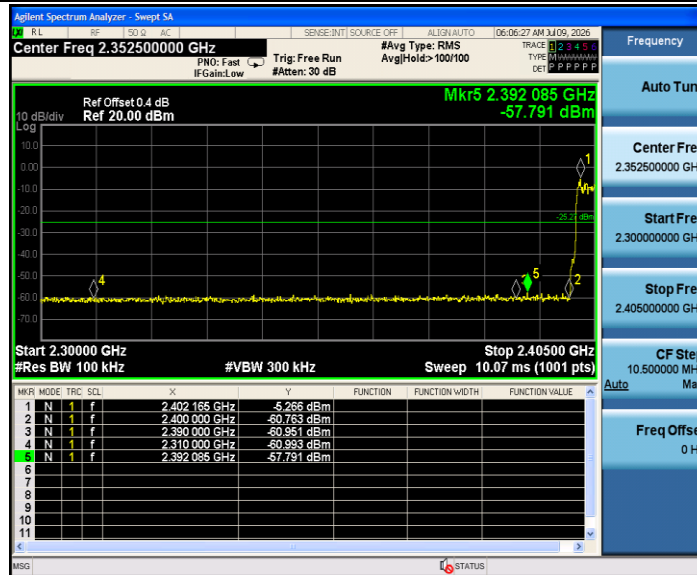
2DH5_Ant1_Low_2402



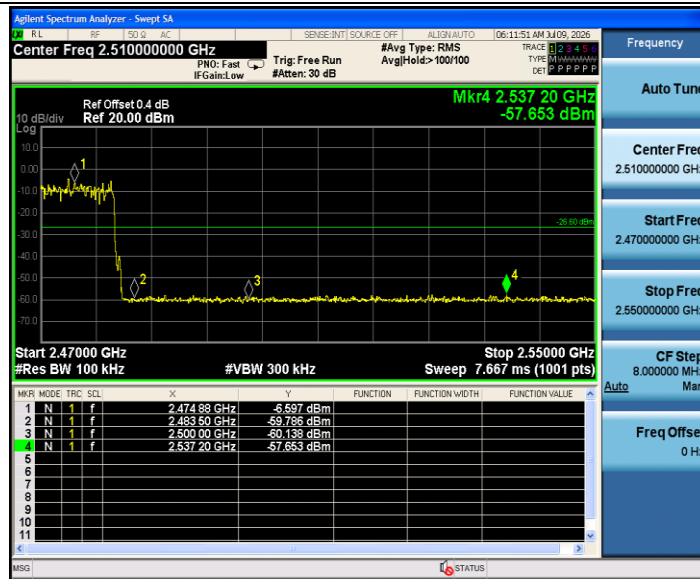
2DH5_Ant1_High_2480



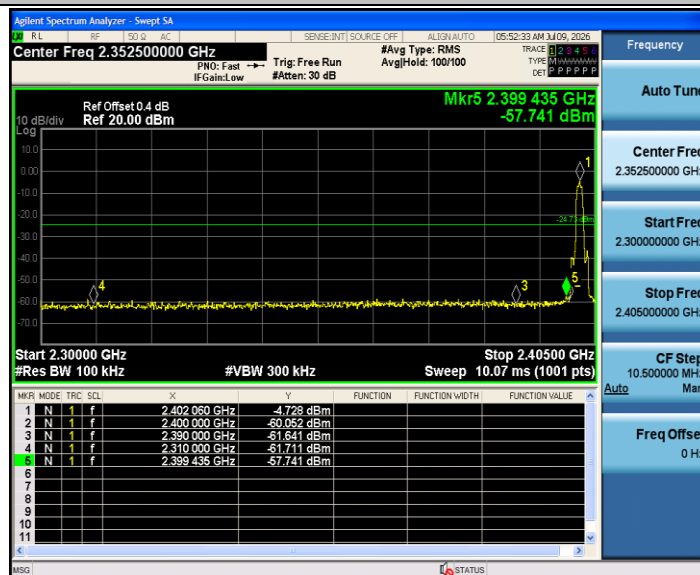
2DH5_Ant1_Low_Hop_2402



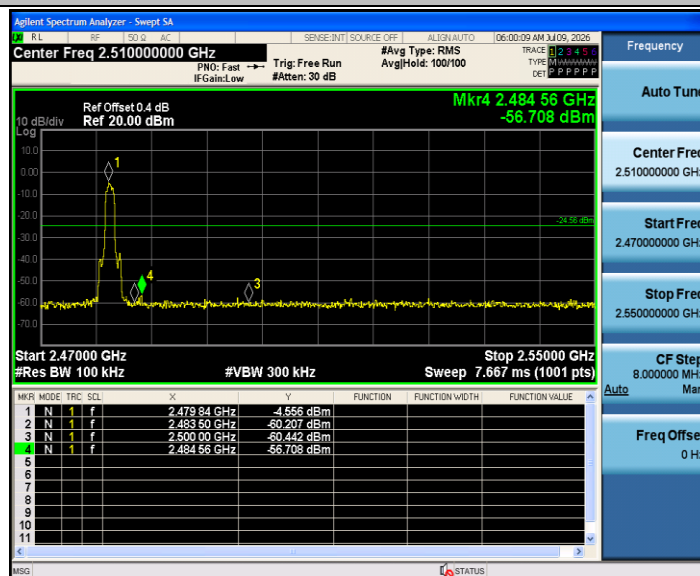
2DH5_Ant1_High_Hop_2480



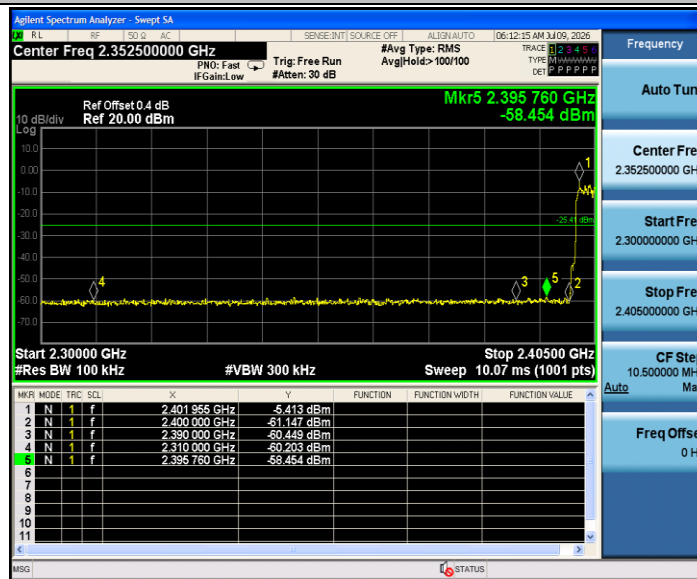
3DH5_Ant1_Low_2402



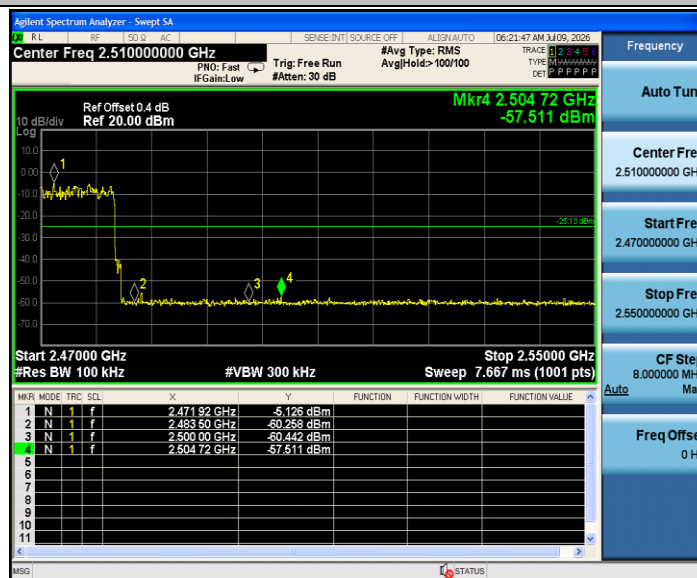
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

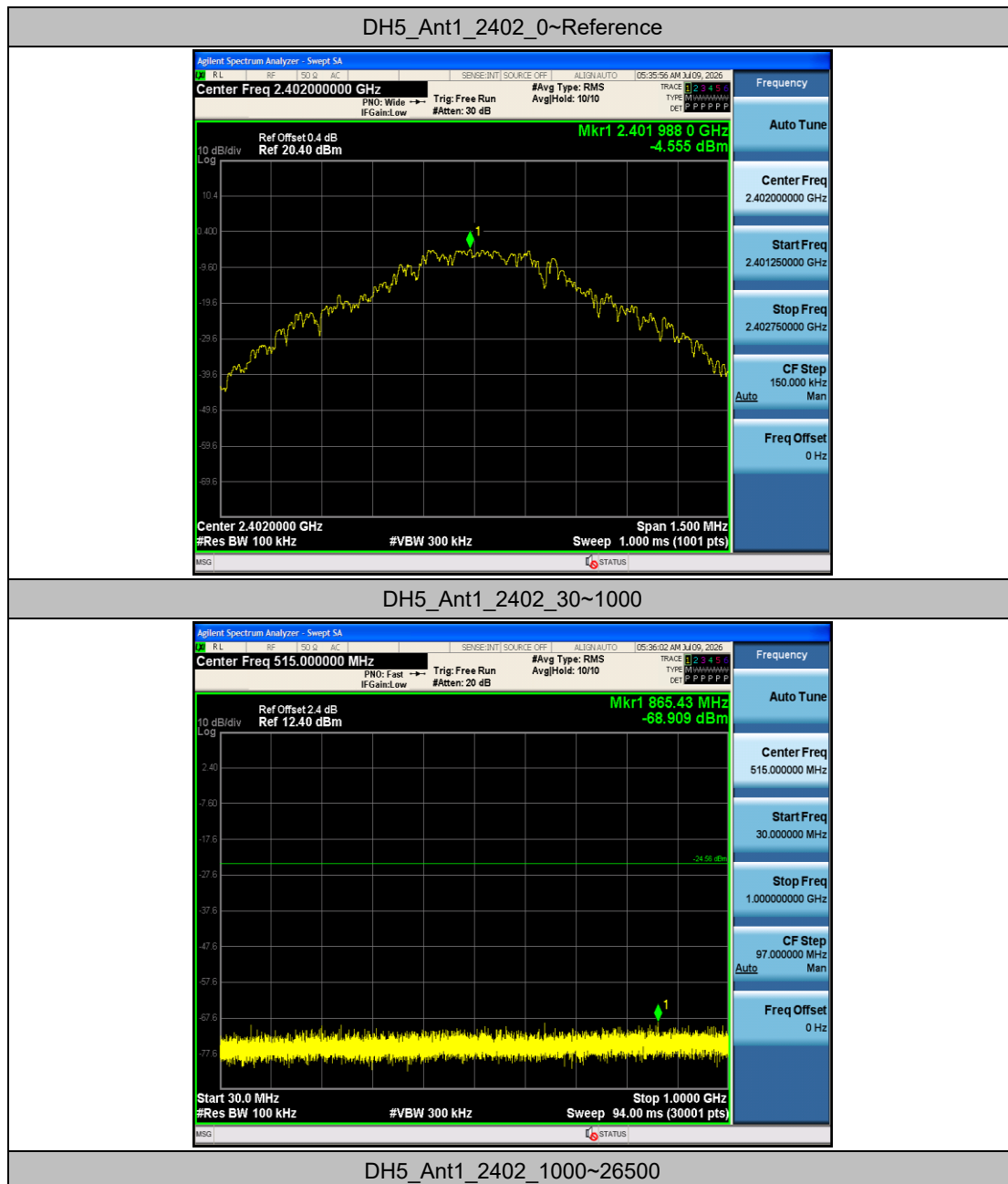


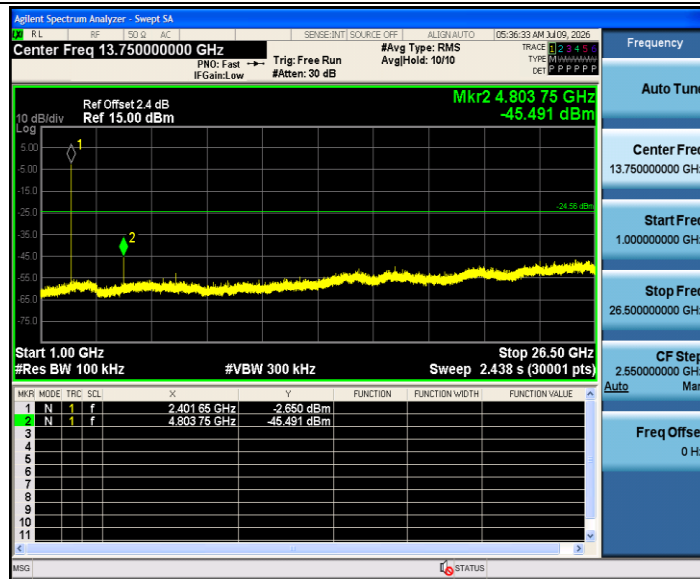
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-68.91	≤-24.56	PASS
			1000~26500	-4.56	-45.49	≤-24.56	PASS
		2441	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-68.32	≤-24.48	PASS
			1000~26500	-4.48	-46.61	≤-24.48	PASS
		2480	Reference	-3.93	-3.93	---	PASS
			30~1000	-3.93	-68.31	≤-23.93	PASS
			1000~26500	-3.93	-46.26	≤-23.93	PASS
2DH5	Ant1	2402	Reference	-5.42	-5.42	---	PASS
			30~1000	-5.42	-69.49	≤-25.42	PASS
			1000~26500	-5.42	-42.77	≤-25.42	PASS
		2441	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-69.19	≤-25.18	PASS
			1000~26500	-5.18	-46.54	≤-25.18	PASS
		2480	Reference	-4.19	-4.19	---	PASS
			30~1000	-4.19	-68.89	≤-24.19	PASS
			1000~26500	-4.19	-46.93	≤-24.19	PASS
3DH5	Ant1	2402	Reference	-6.39	-6.39	---	PASS
			30~1000	-6.39	-66.25	≤-26.39	PASS
			1000~26500	-6.39	-46.85	≤-26.39	PASS
		2441	Reference	-4.12	-4.12	---	PASS
			30~1000	-4.12	-69.58	≤-24.12	PASS
			1000~26500	-4.12	-47.05	≤-24.12	PASS
		2480	Reference	-6.76	-6.76	---	PASS
			30~1000	-6.76	-69	≤-26.76	PASS
			1000~26500	-6.76	-45.14	≤-26.76	PASS

Test Graphs

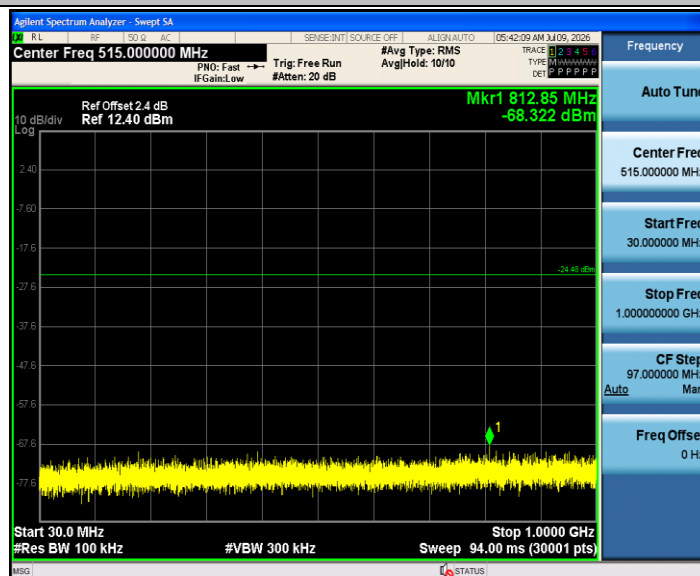




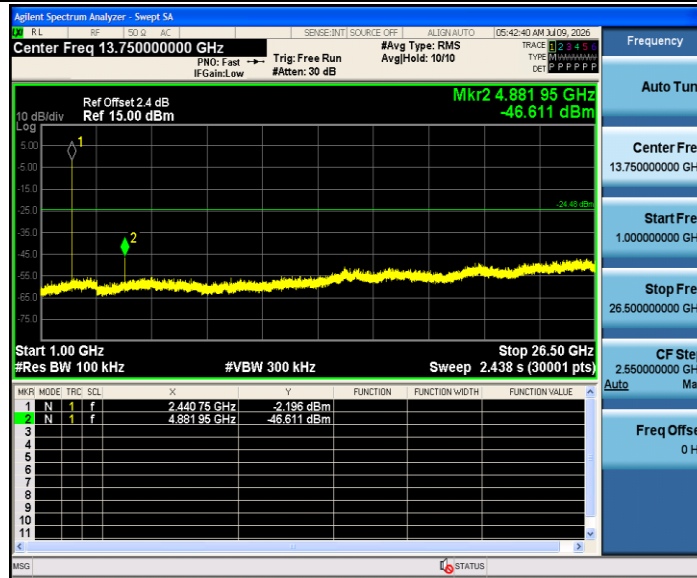
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



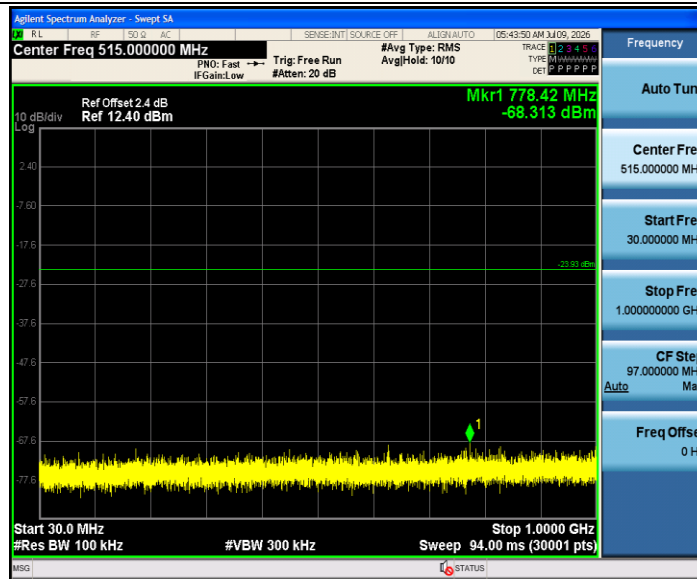
DH5_Ant1_2441_1000~26500



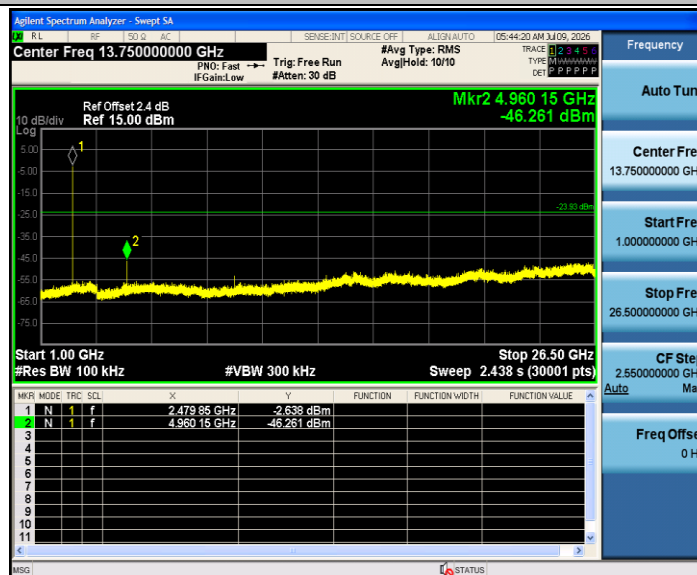
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

