

FCC Appendix RF Test Data for BT

FCC ID : 2BSS8-S28MAX

Company : Shenzhen Dream Technology Co., Ltd.

EUT : Smart watch

Model Number : S28 MAX

Report No. : CTA26031000501

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	2440.547	2441.501	---	---
		2480	0.957	2479.544	2480.501	---	---
2DH5	Ant1	2402	1.287	2401.376	2402.663	---	---
		2441	1.335	2440.340	2441.675	---	---
		2480	1.323	2479.346	2480.669	---	---
3DH5	Ant1	2402	1.281	2401.370	2402.651	---	---
		2441	1.293	2440.361	2441.654	---	---
		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	0.86129	2401.5779	2402.4392	---	---
		2441	0.87062	2440.5764	2441.4470	---	---
		2480	0.85816	2479.5791	2480.4373	---	---
2DH5	Ant1	2402	1.1879	2401.4182	2402.6061	---	---
		2441	1.1992	2440.4115	2441.6107	---	---
		2480	1.1844	2479.4184	2480.6028	---	---
3DH5	Ant1	2402	1.1864	2401.4197	2402.6061	---	---
		2441	1.1905	2440.4155	2441.6060	---	---
		2480	1.1778	2479.4262	2480.6040	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



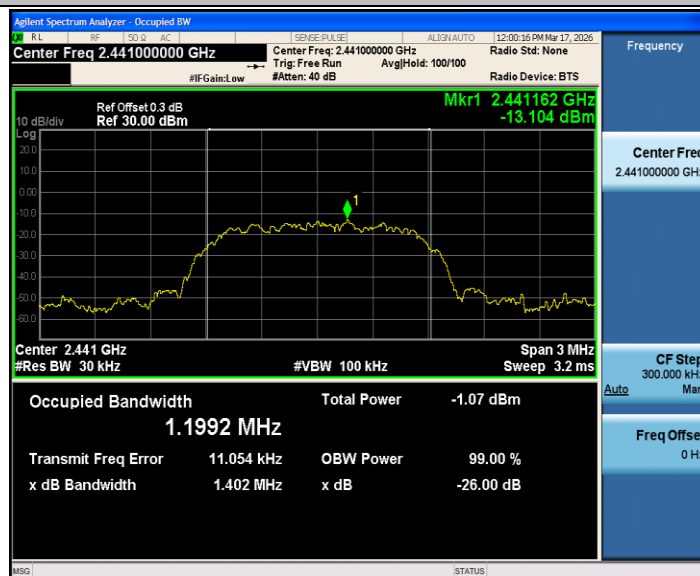
DH5_Ant1_2480



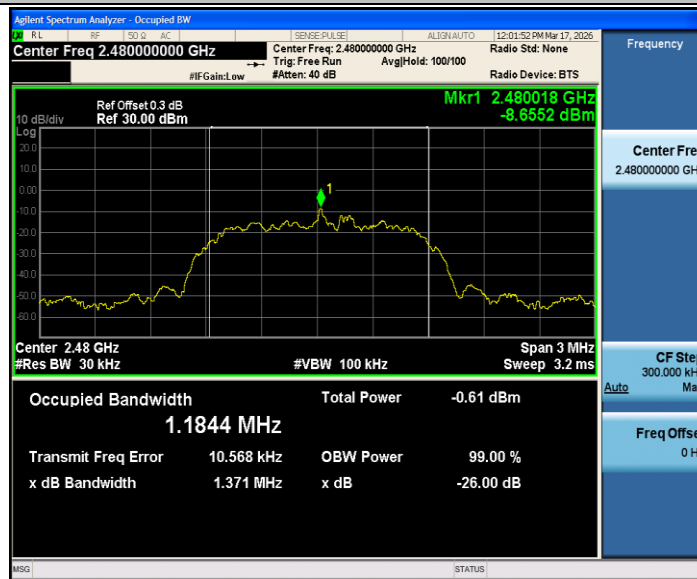
2DH5_Ant1_2402



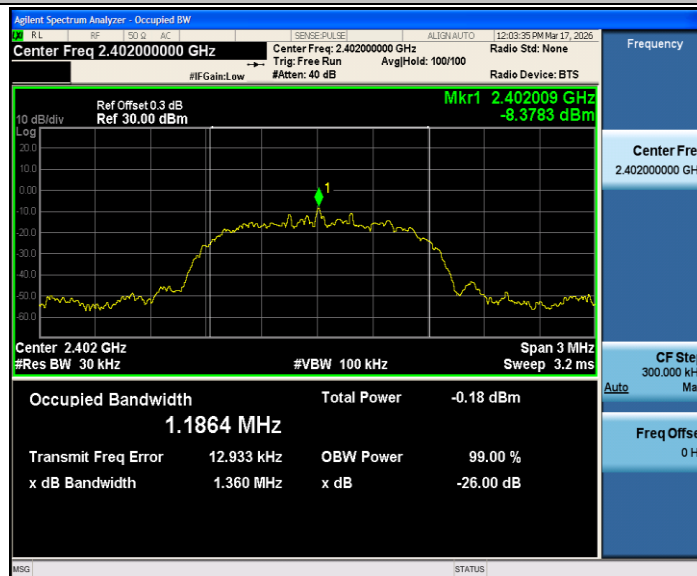
2DH5_Ant1_2441



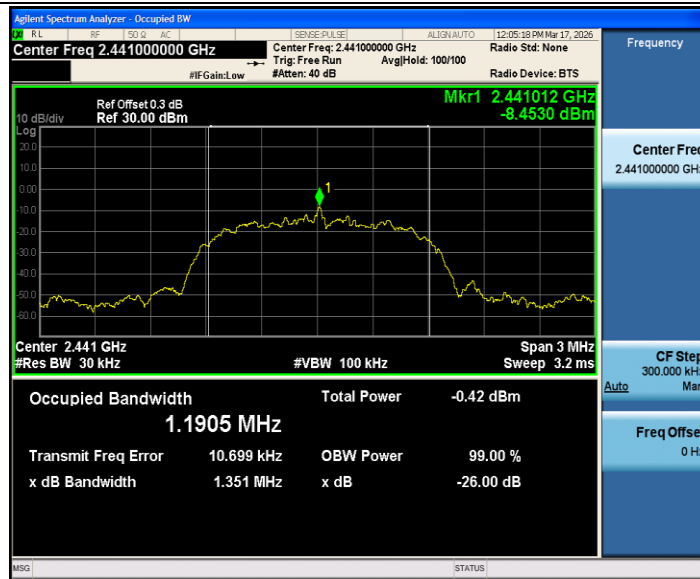
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

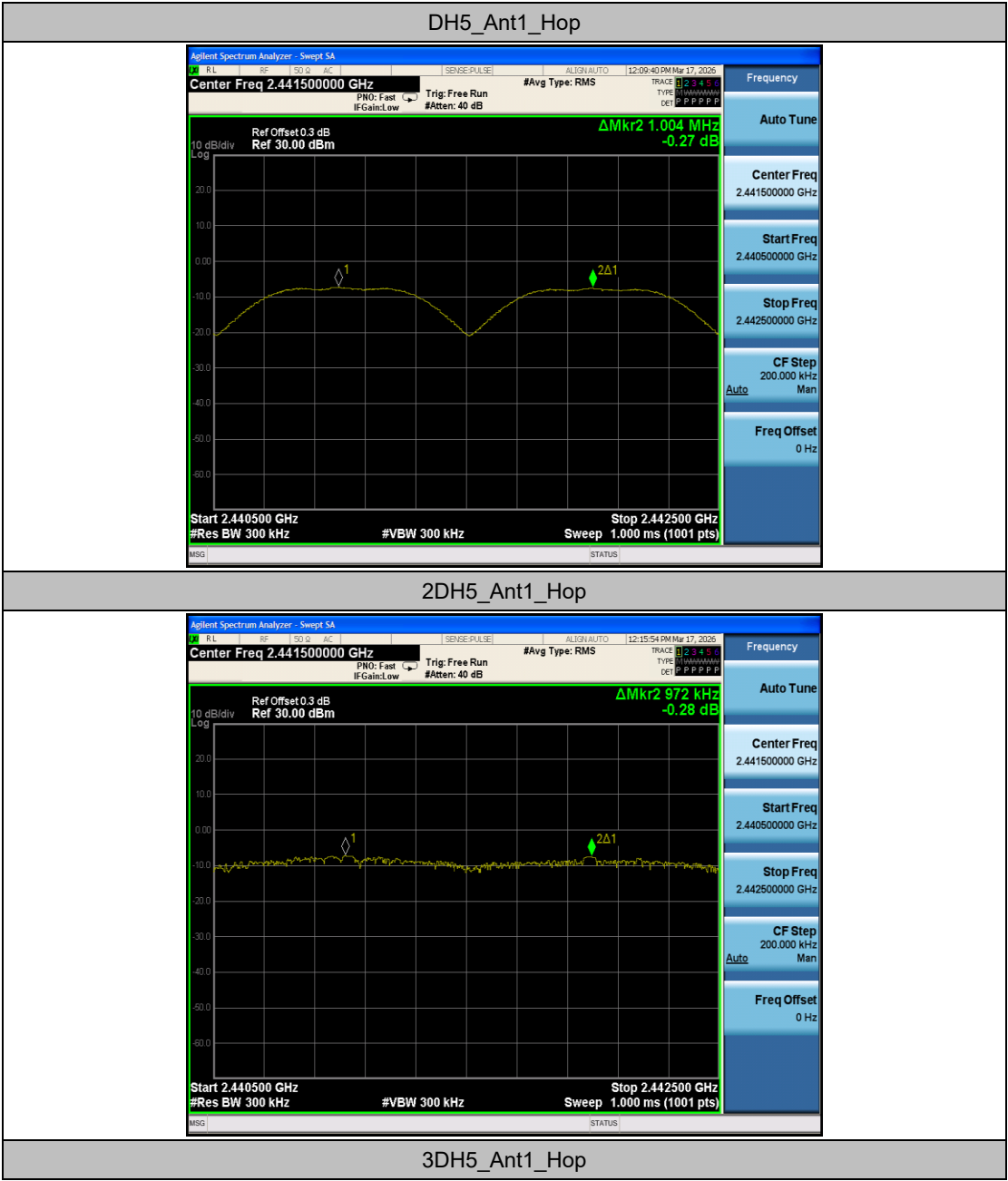
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.52	≤20.97	PASS
		2441	-3.88	≤20.97	PASS
		2480	-3.93	≤20.97	PASS
2DH5	Ant1	2402	-4.34	≤20.97	PASS
		2441	-4.63	≤20.97	PASS
		2480	-4.77	≤20.97	PASS
3DH5	Ant1	2402	-4.06	≤20.97	PASS
		2441	-4.30	≤20.97	PASS
		2480	-4.46	≤20.97	PASS

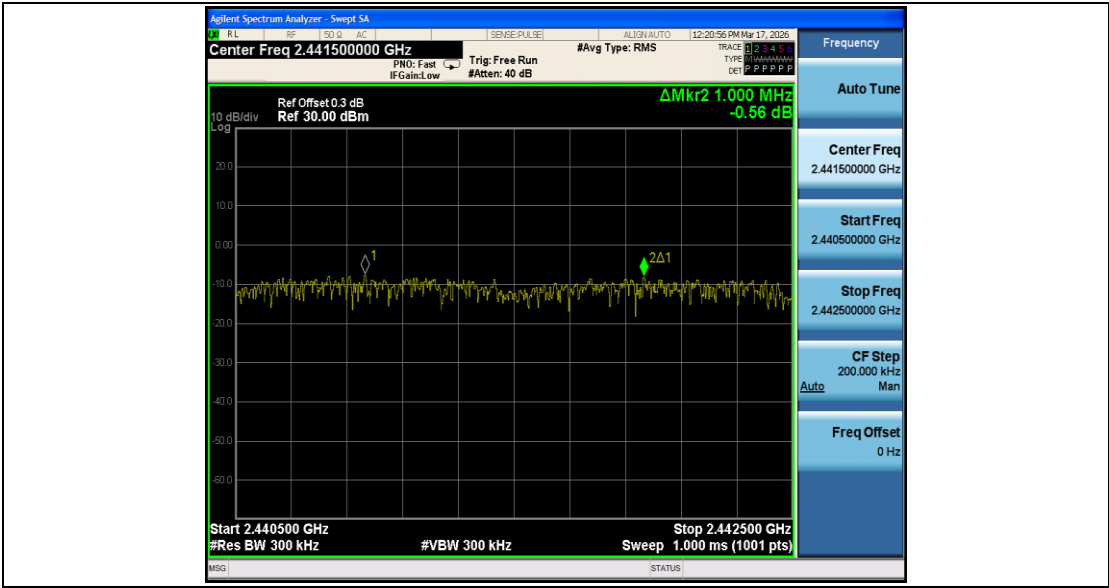
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.957	PASS
2DH5	Ant1	Hop	0.972	≥ 0.890	PASS
3DH5	Ant1	Hop	1	≥ 0.862	PASS

Test Graphs



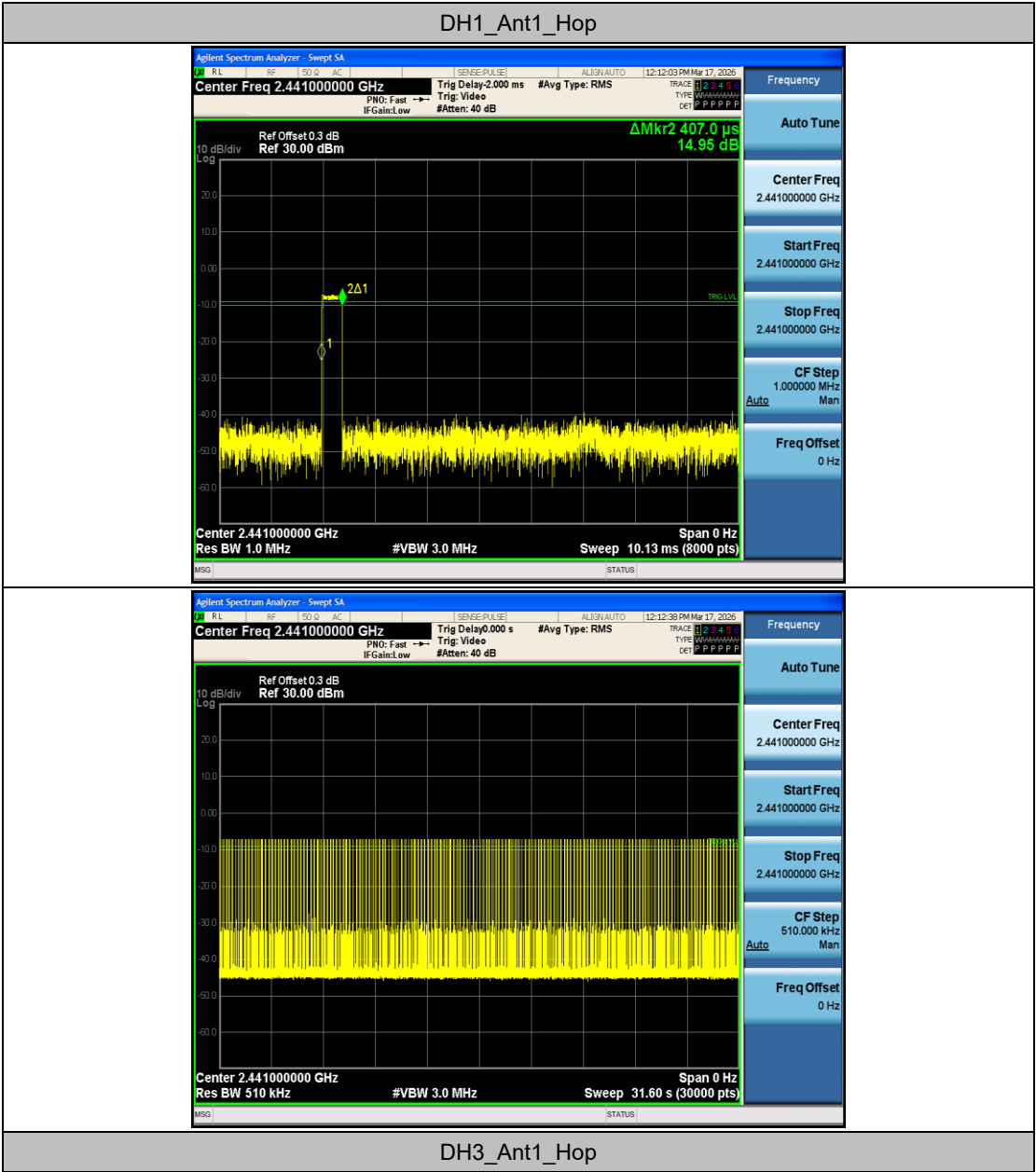


Appendix E: Time of occupancy

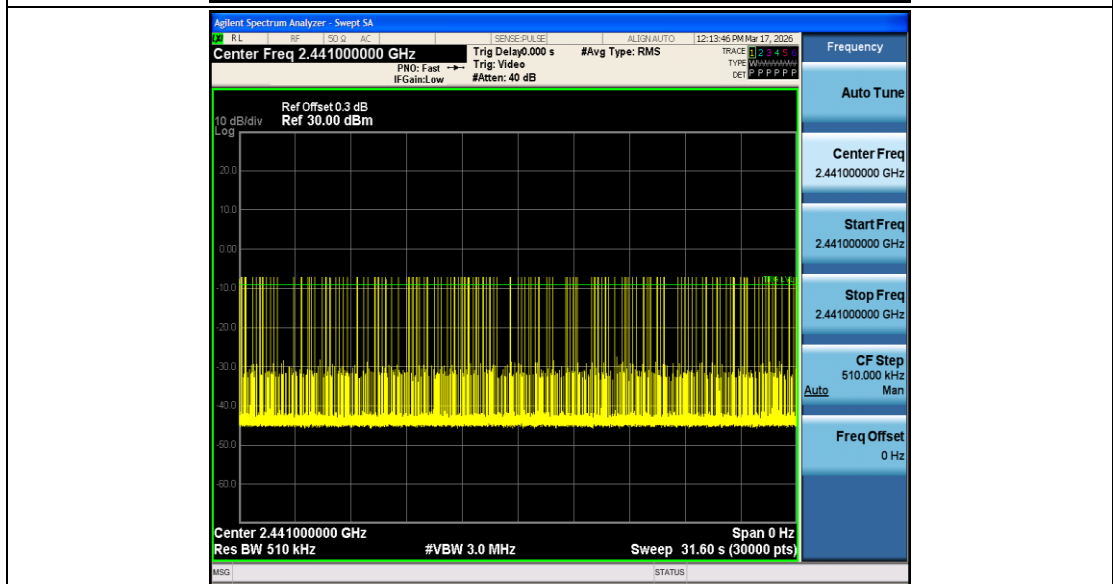
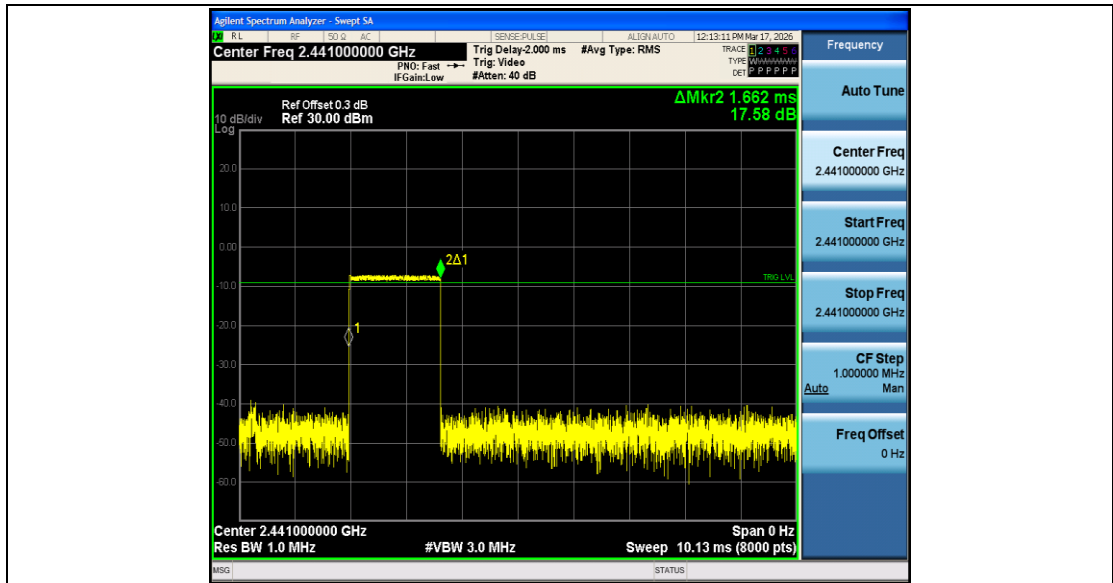
Test Result

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	158	0.263	≤0.4	PASS
DH5	Ant1	Hop	2.910	106	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	156	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.916	111	0.324	≤0.4	PASS
3DH1	Ant1	Hop	0.415	320	0.133	≤0.4	PASS
3DH3	Ant1	Hop	1.666	152	0.253	≤0.4	PASS
3DH5	Ant1	Hop	2.917	107	0.312	≤0.4	PASS

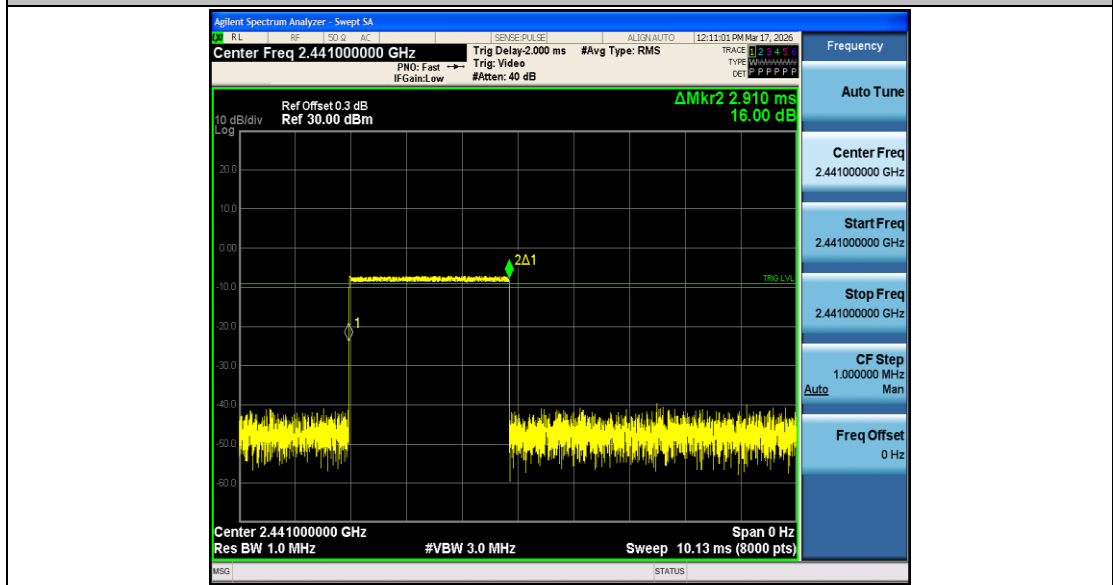
Test Graphs

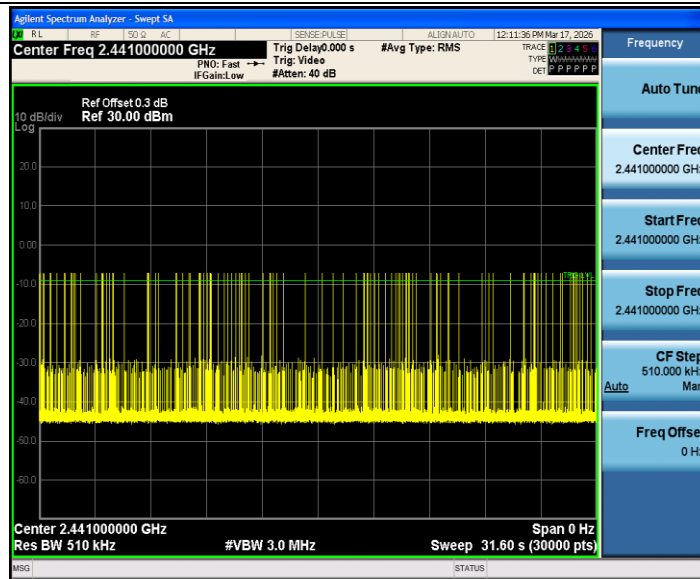


DH3_Ant1_Hop

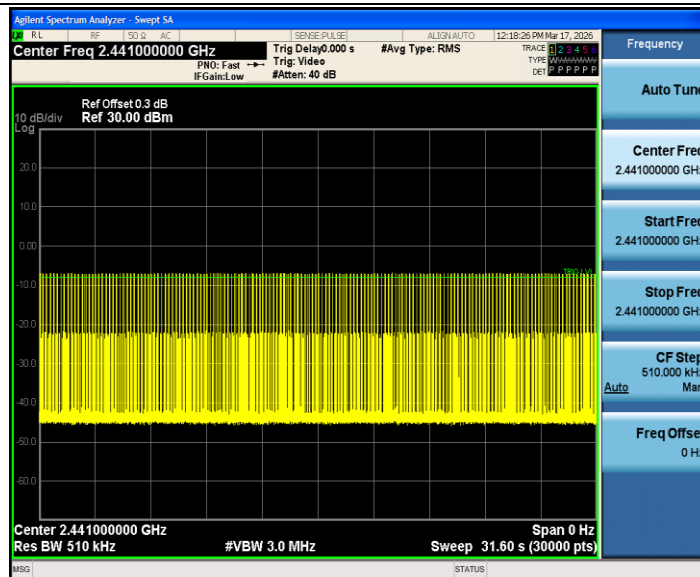
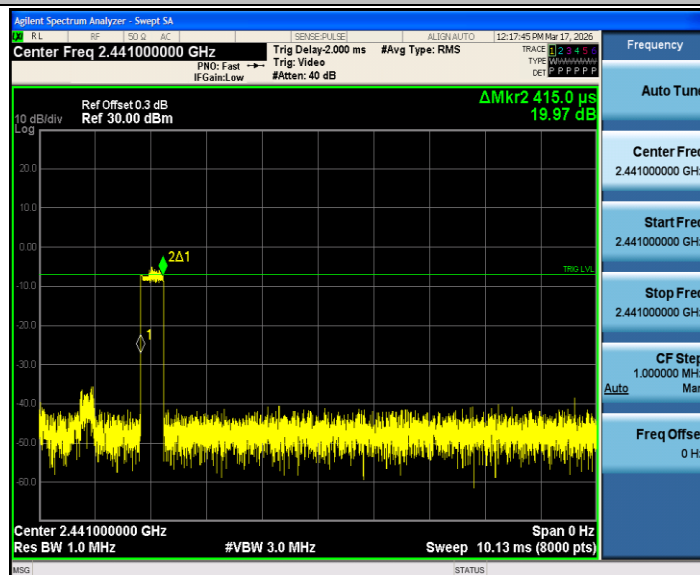


DH5_Ant1_Hop

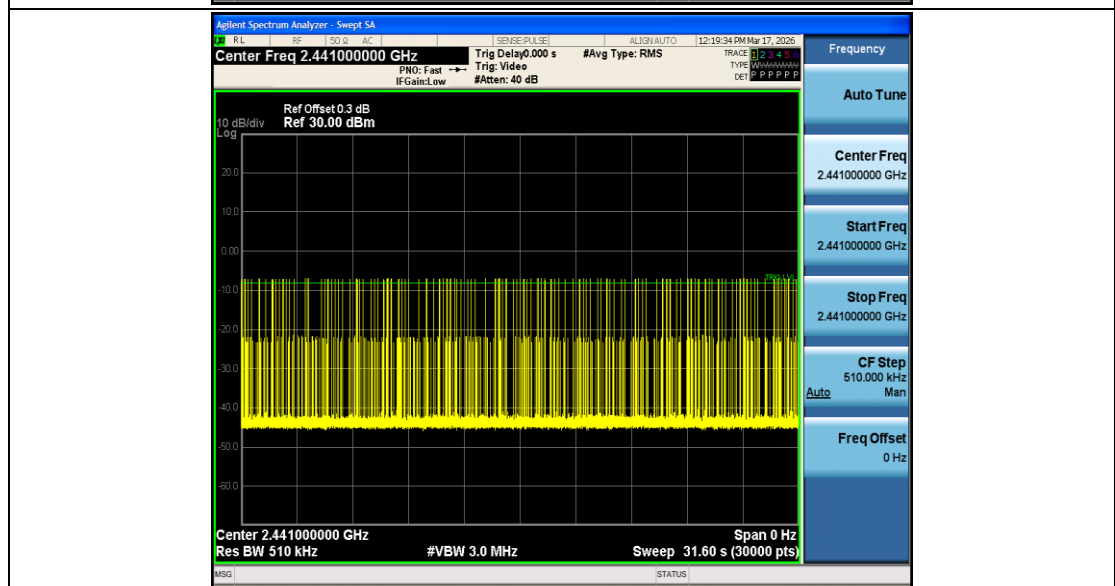
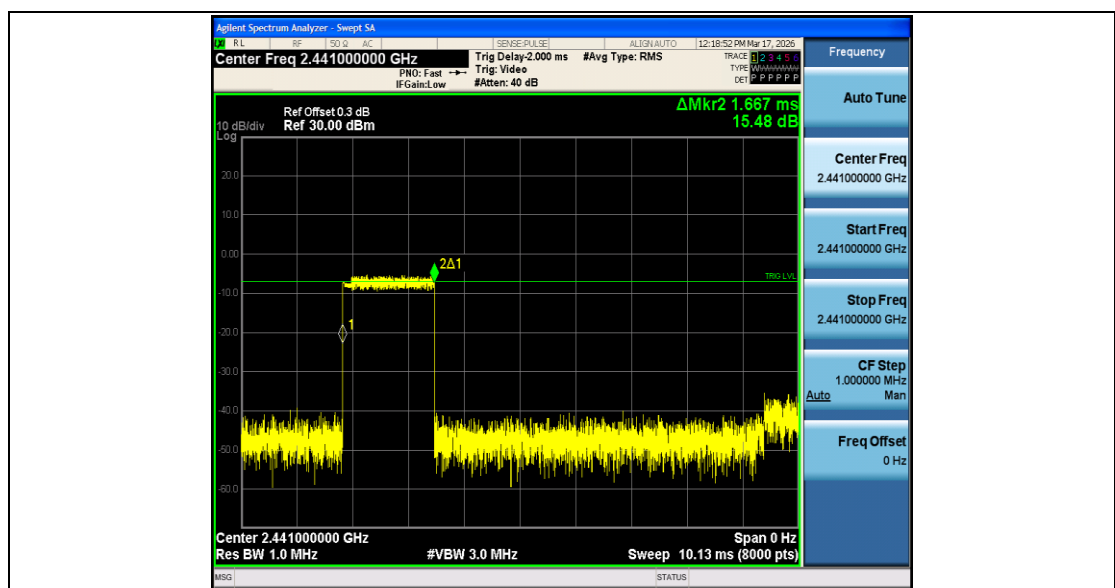




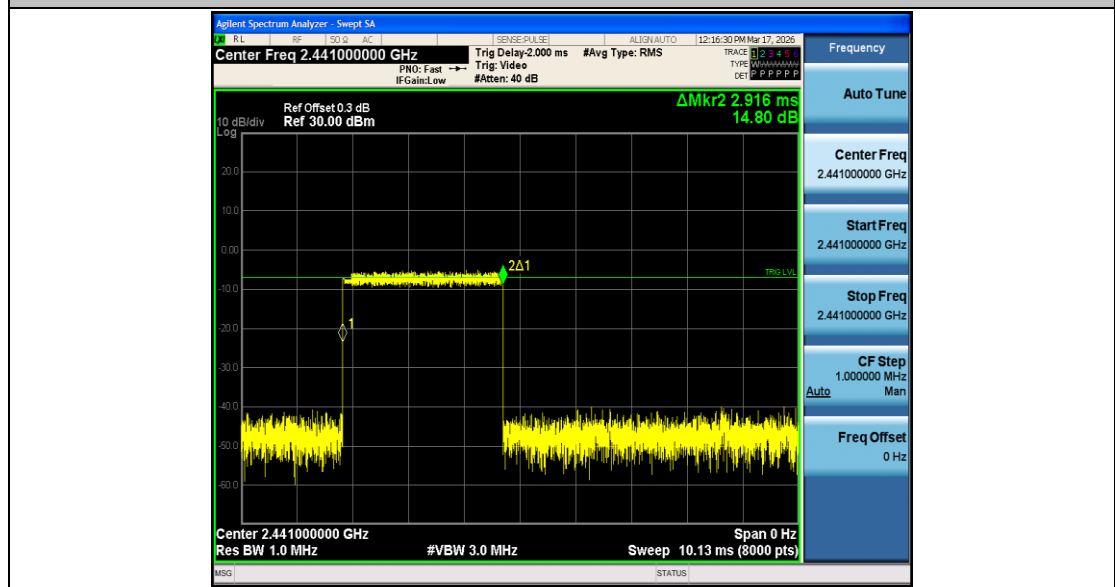
2DH1_Ant1_Hop

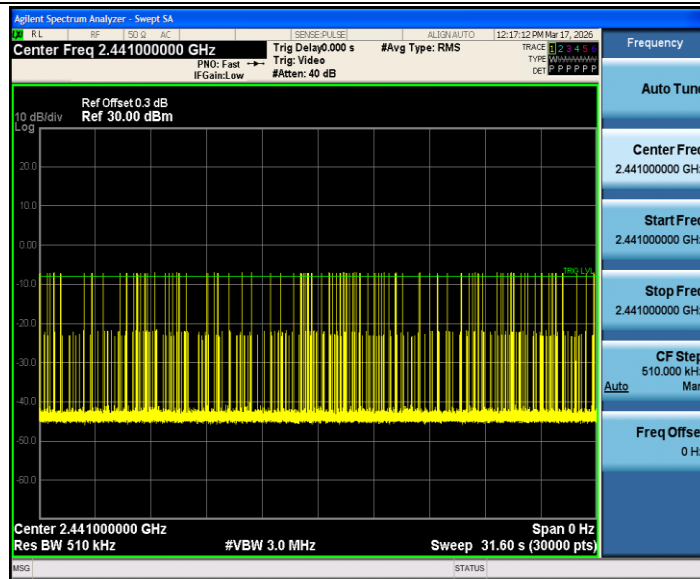


2DH3_Ant1_Hop

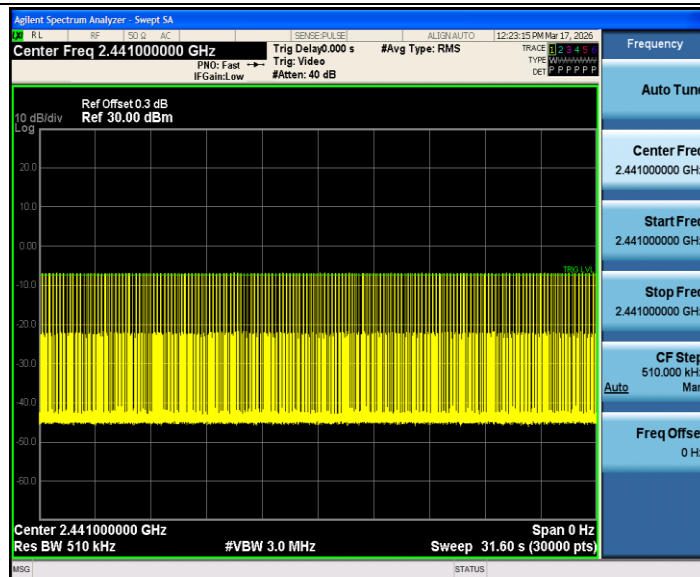
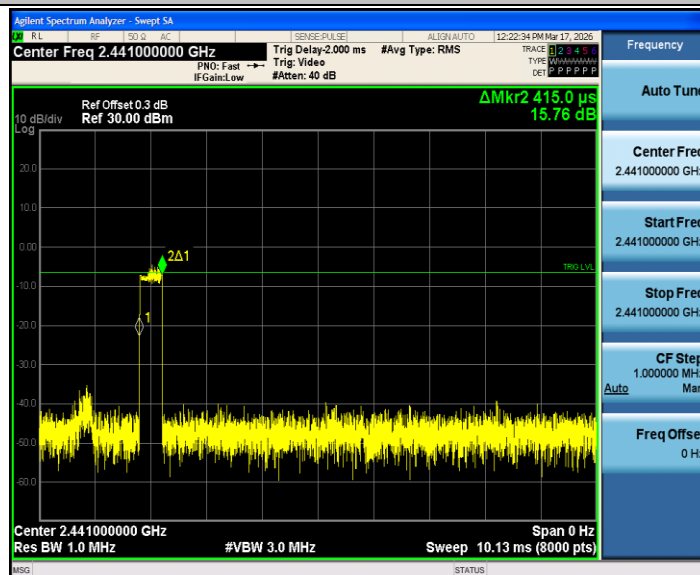


2DH5_Ant1_Hop

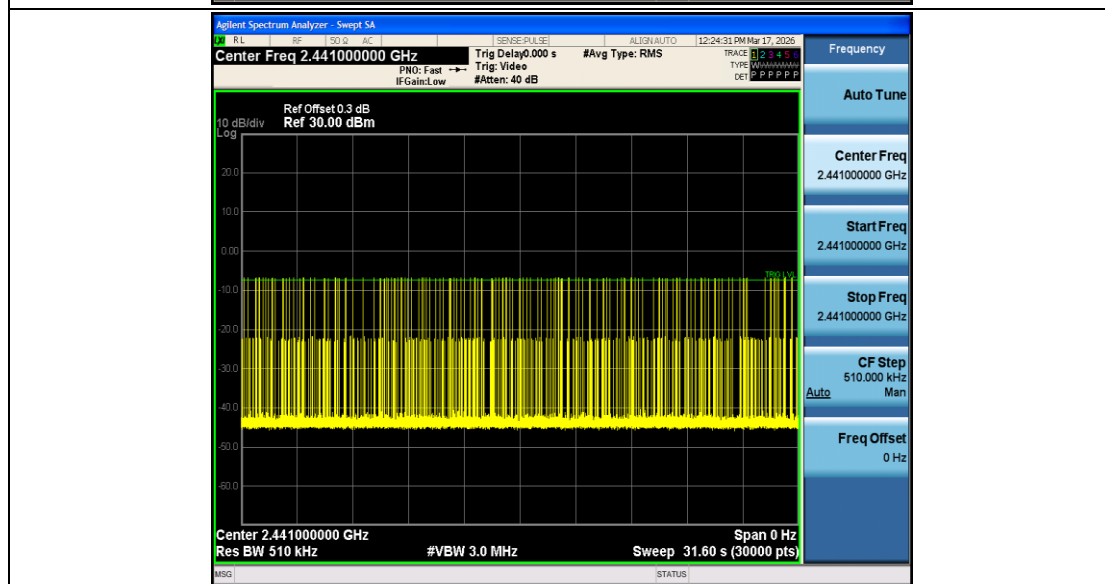
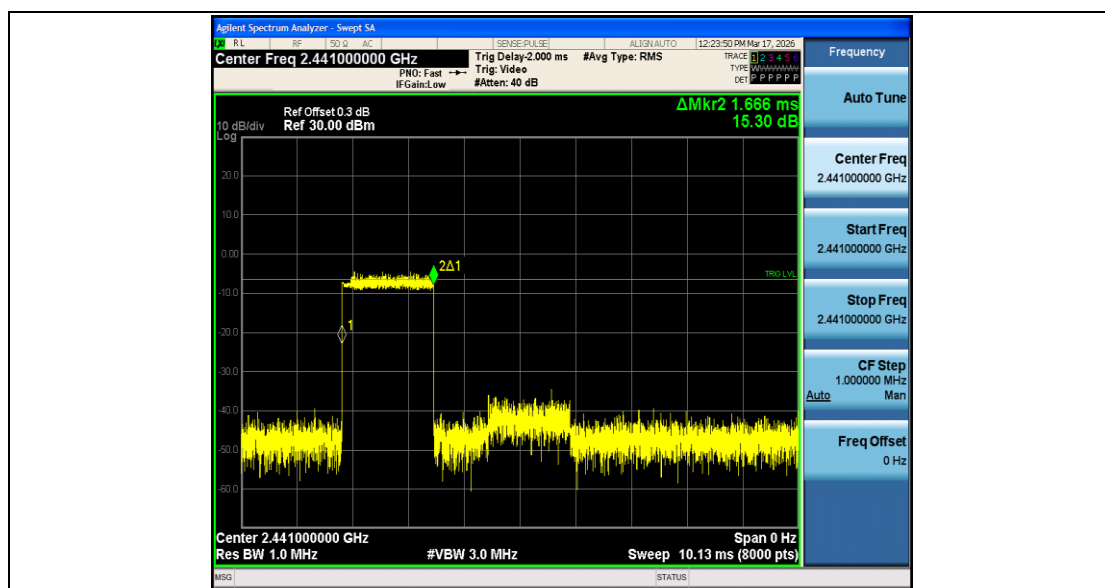




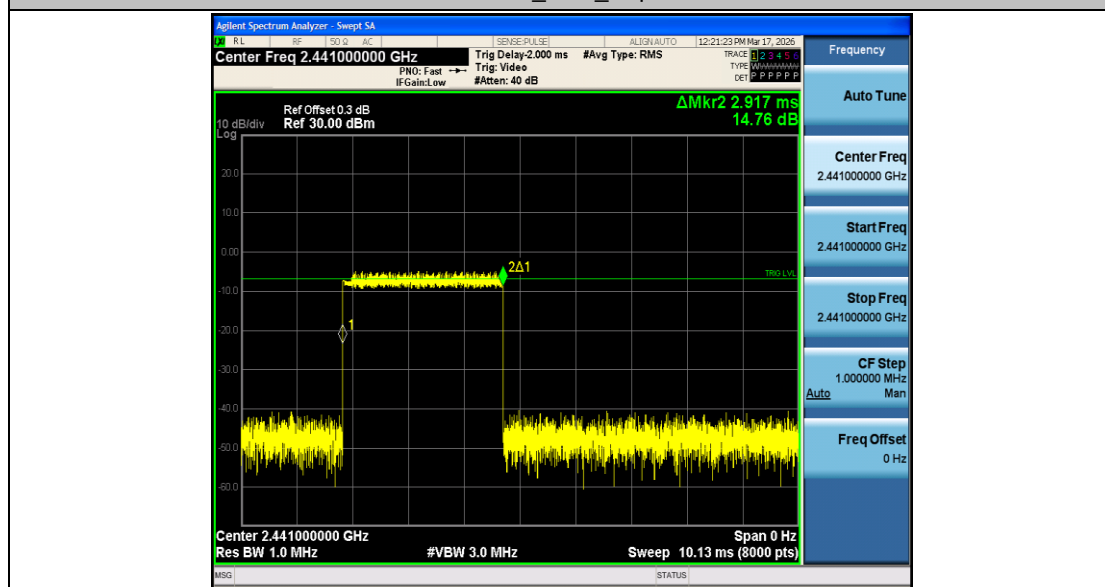
3DH1_Ant1_Hop

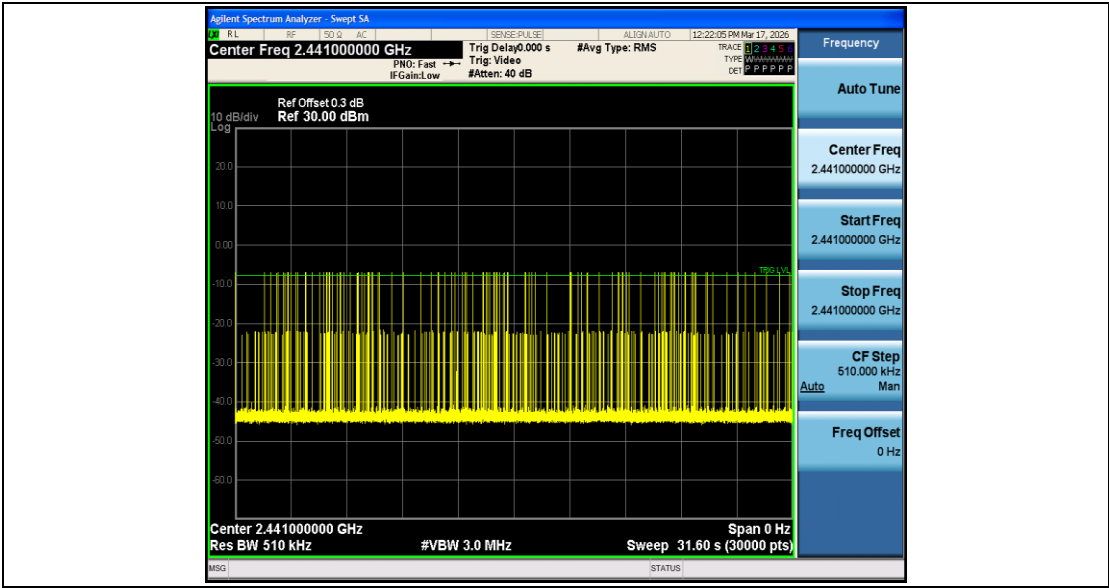


3DH3_Ant1_Hop



3DH5_Ant1_Hop



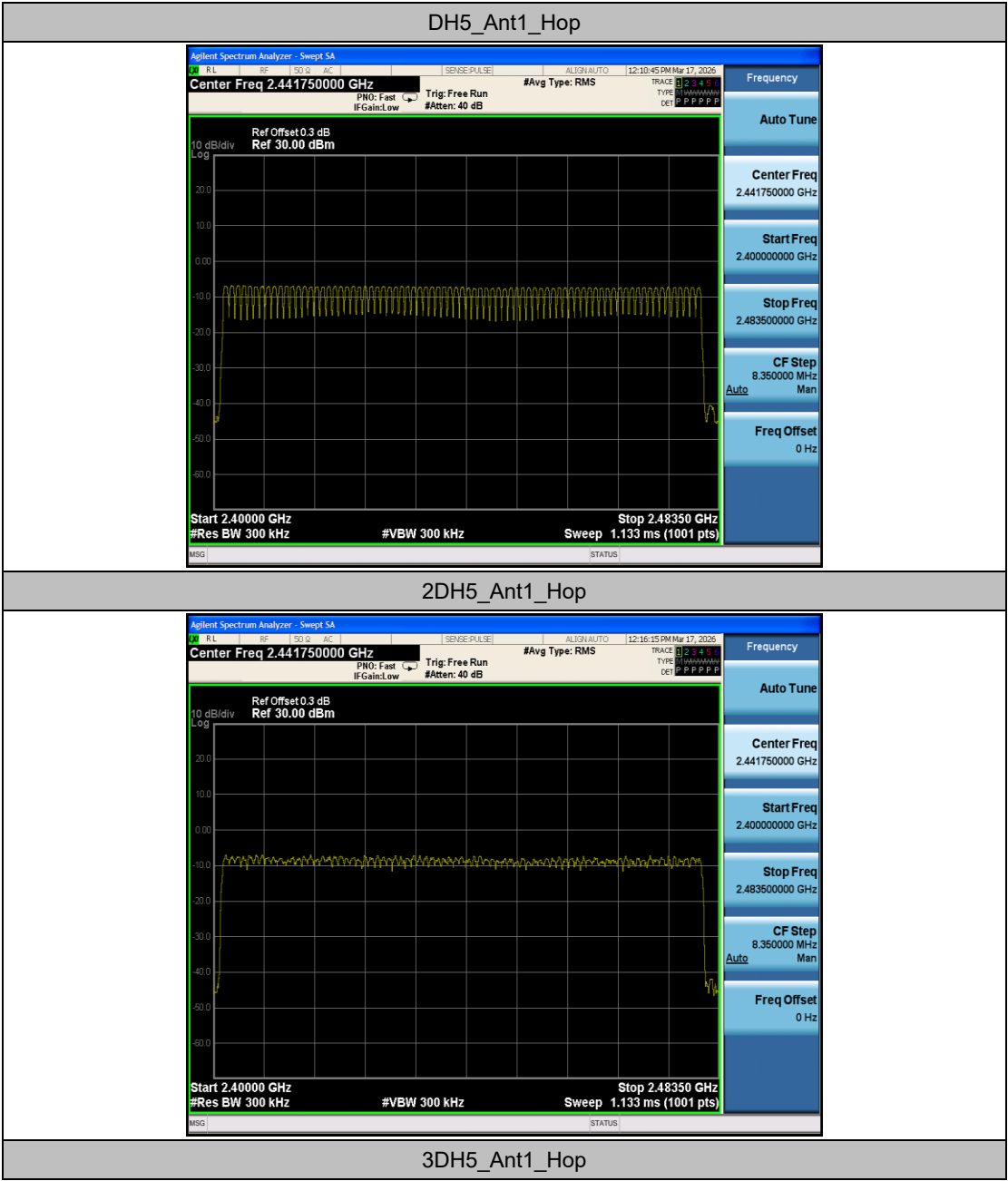


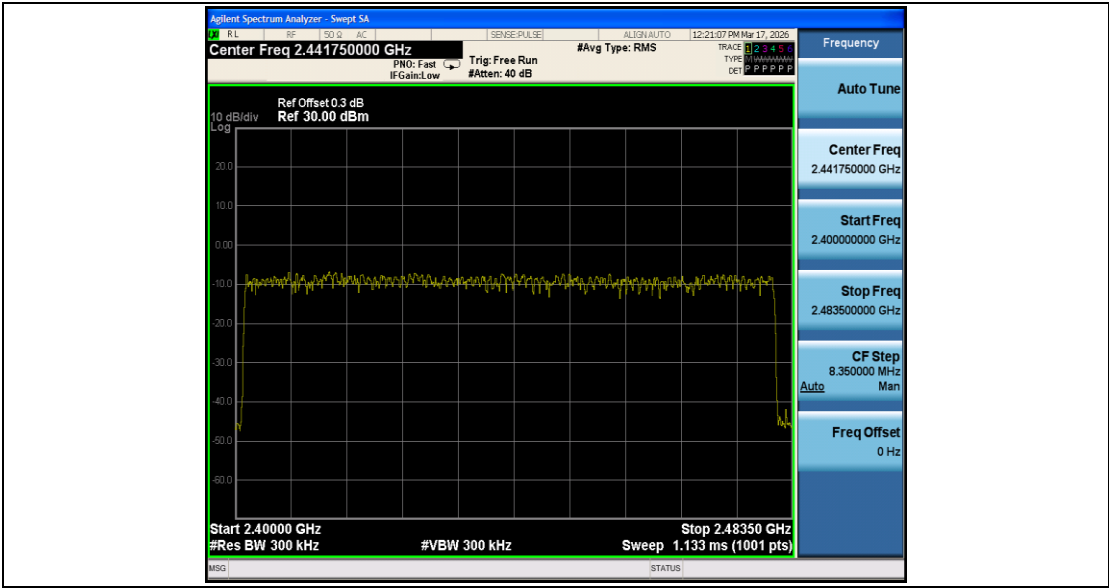
Appendix F: Number of hopping channels

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



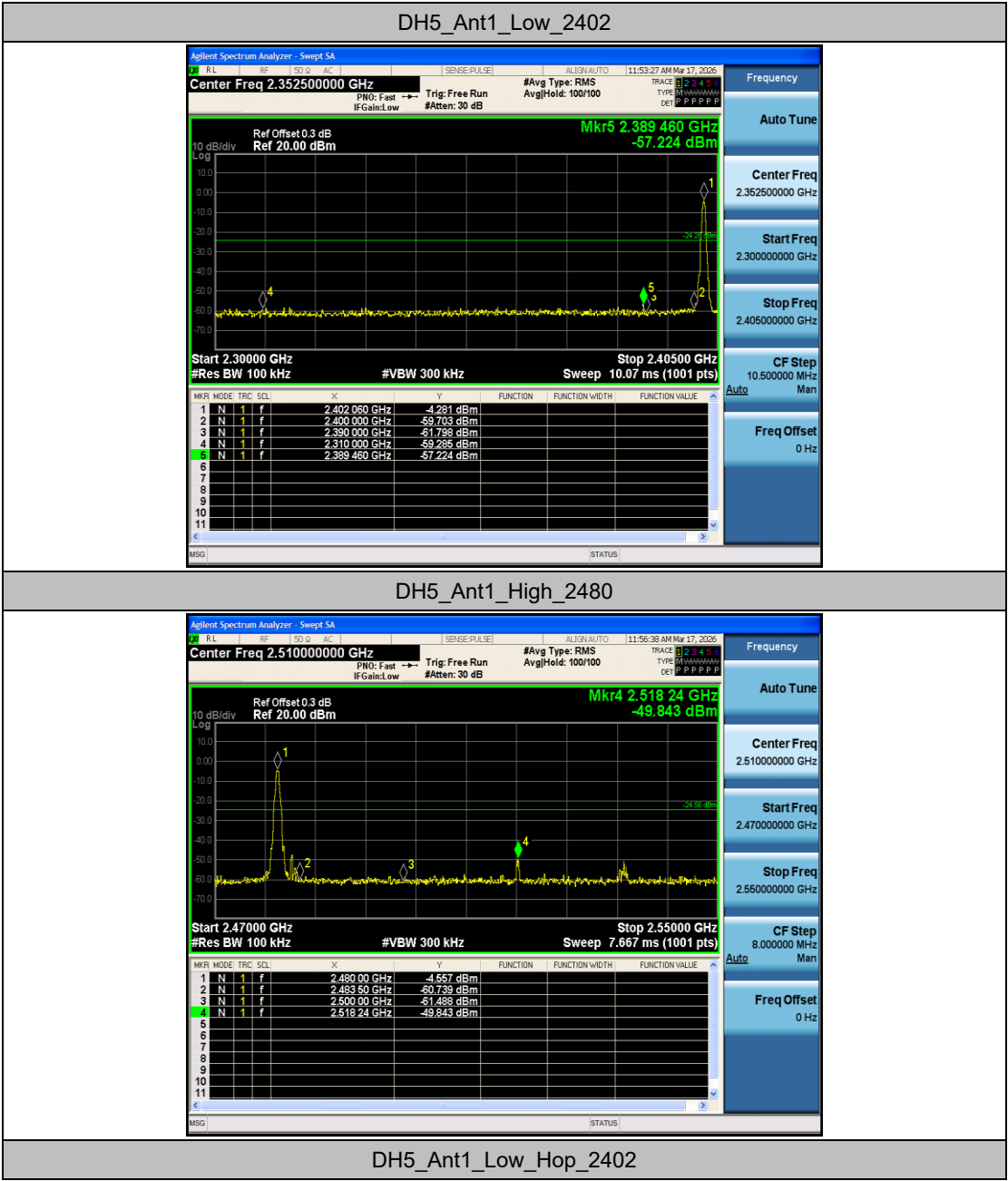


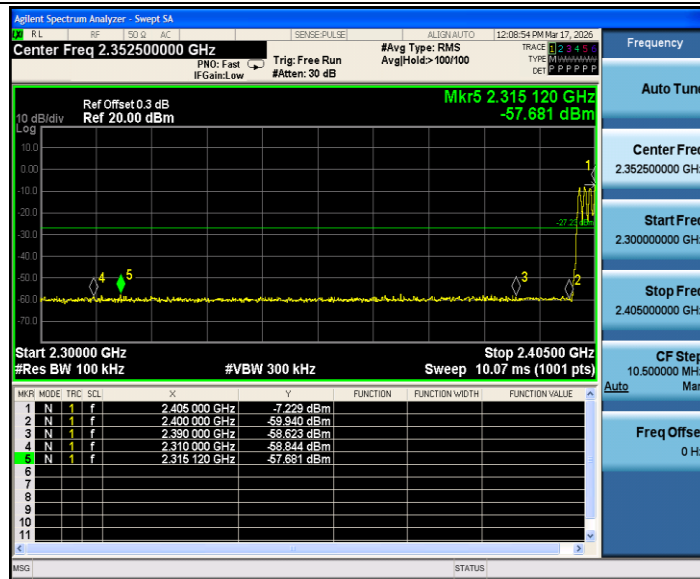
Appendix G: Band edge measurements

Test Result

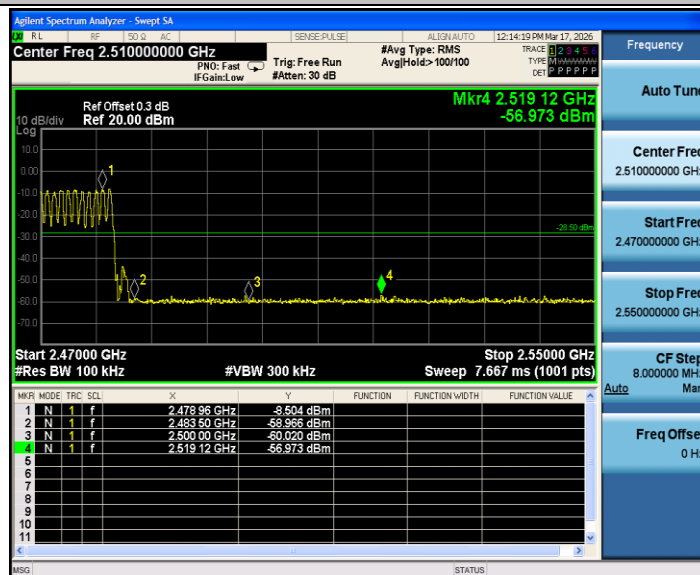
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.28	-57.22	≤-24.28	PASS
		High	2480	-4.56	-49.84	≤-24.56	PASS
		Low	Hop_2402	-7.23	-57.68	≤-27.23	PASS
		High	Hop_2480	-8.50	-56.97	≤-28.5	PASS
2DH5	Ant1	Low	2402	-7.28	-57.89	≤-27.28	PASS
		High	2480	-9.73	-57.98	≤-29.73	PASS
		Low	Hop_2402	-10.04	-58.54	≤-30.04	PASS
		High	Hop_2480	-8.21	-58.28	≤-28.21	PASS
3DH5	Ant1	Low	2402	-7.03	-57.83	≤-27.03	PASS
		High	2480	-7.23	-57.62	≤-27.23	PASS
		Low	Hop_2402	-10.15	-58.52	≤-30.15	PASS
		High	Hop_2480	-7.27	-56.82	≤-27.27	PASS

Test Graphs

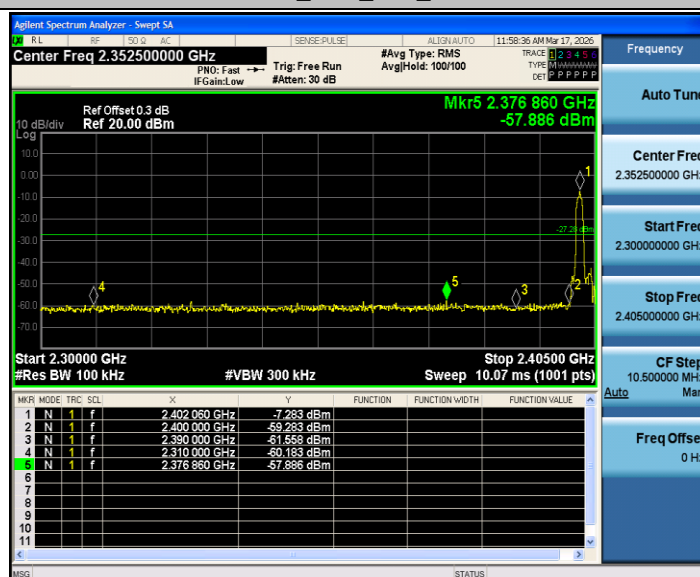




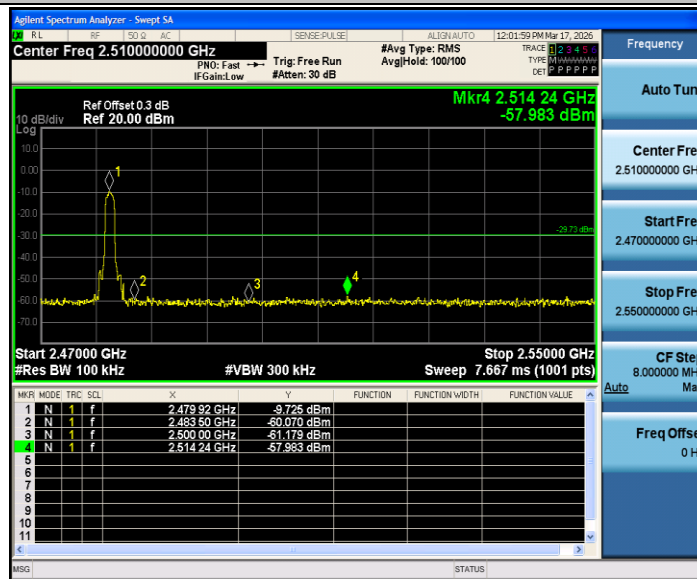
DH5_Ant1_High_Hop_2480



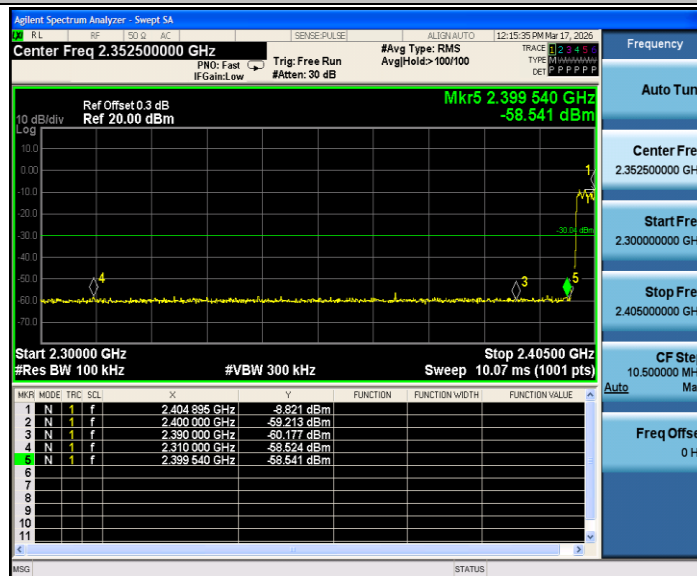
2DH5_Ant1_Low_2402



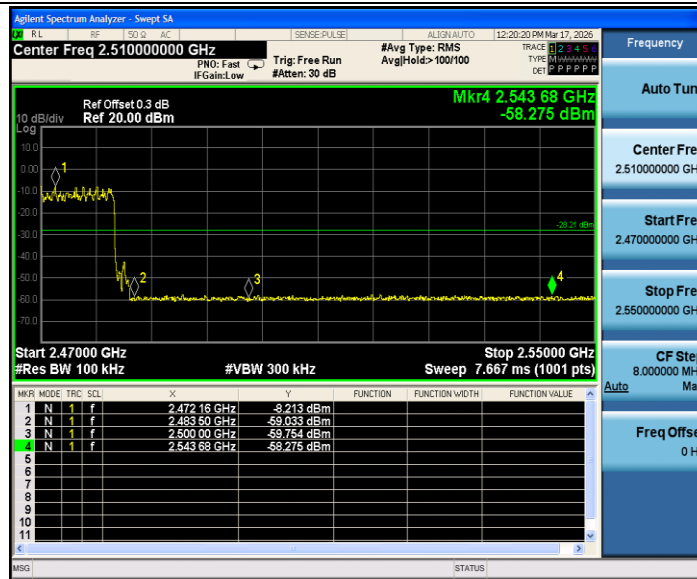
2DH5_Ant1_High_2480



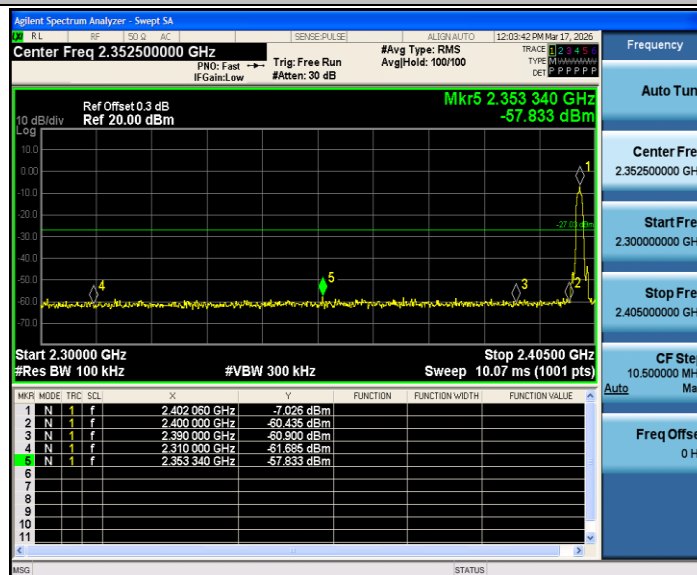
2DH5_Ant1_Low_Hop_2402



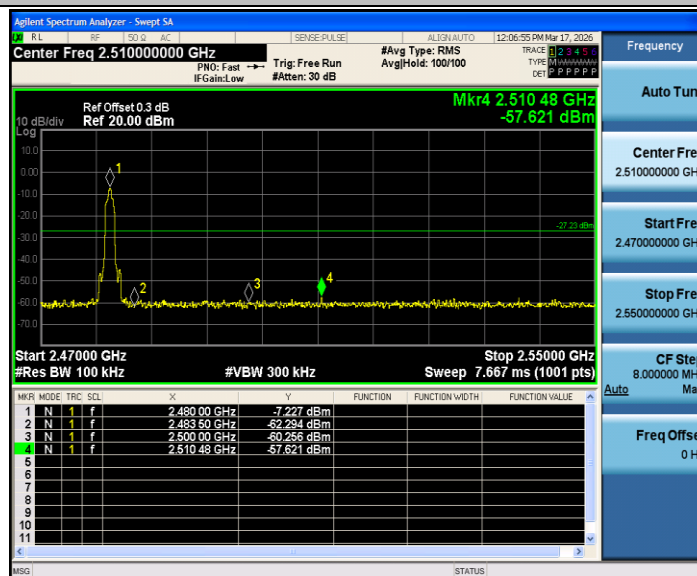
2DH5_Ant1_High_Hop_2480



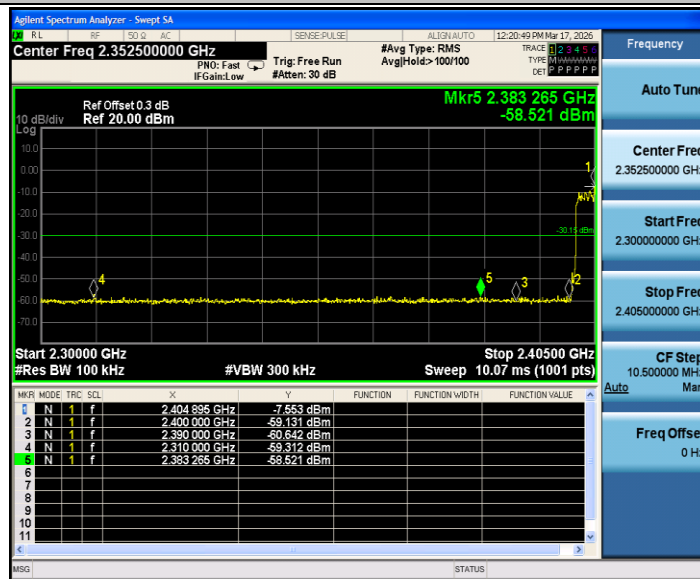
3DH5_Ant1_Low_2402



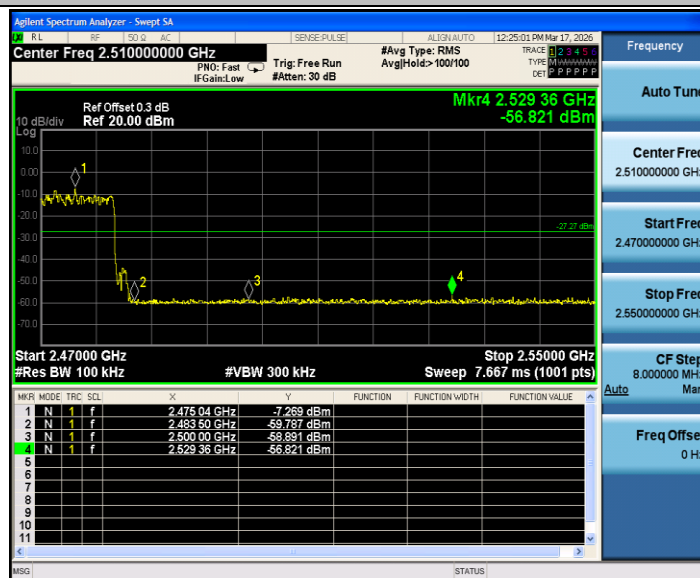
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

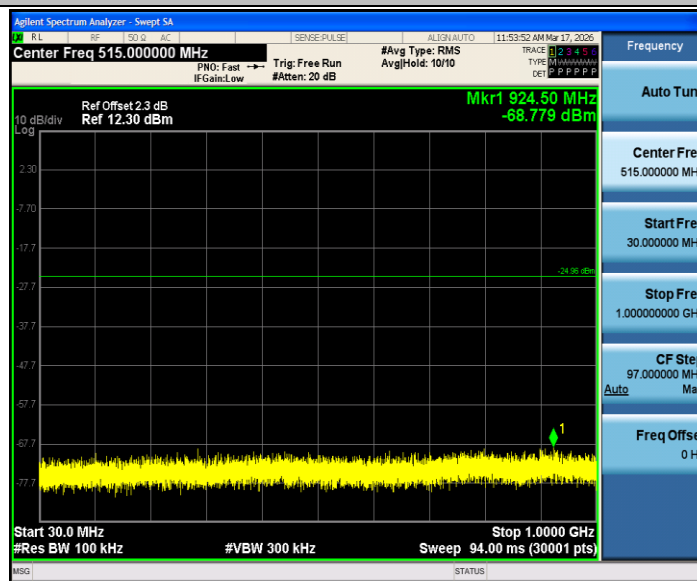
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.96	-4.96	---	PASS
			30~1000	-4.96	-68.78	≤-24.96	PASS
			1000~26500	-4.96	-47.04	≤-24.96	PASS
		2441	Reference	-4.66	-4.66	---	PASS
			30~1000	-4.66	-67.75	≤-24.66	PASS
			1000~26500	-4.66	-50.39	≤-24.66	PASS
		2480	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-68.32	≤-24.71	PASS
			1000~26500	-4.71	-49.16	≤-24.71	PASS
2DH5	Ant1	2402	Reference	-7.79	-7.79	---	PASS
			30~1000	-7.79	-67.19	≤-27.79	PASS
			1000~26500	-7.79	-54.33	≤-27.79	PASS
		2441	Reference	-10.98	-10.98	---	PASS
			30~1000	-10.98	-68.51	≤-30.98	PASS
			1000~26500	-10.98	-55.26	≤-30.98	PASS
		2480	Reference	-9.54	-9.54	---	PASS
			30~1000	-9.54	-68.17	≤-29.54	PASS
			1000~26500	-9.54	-55.52	≤-29.54	PASS
3DH5	Ant1	2402	Reference	-9.68	-9.68	---	PASS
			30~1000	-9.68	-67.87	≤-29.68	PASS
			1000~26500	-9.68	-52.35	≤-29.68	PASS
		2441	Reference	-8.03	-8.03	---	PASS
			30~1000	-8.03	-68.35	≤-28.03	PASS
			1000~26500	-8.03	-54.43	≤-28.03	PASS
		2480	Reference	-7.39	-7.39	---	PASS
			30~1000	-7.39	-68.54	≤-27.39	PASS
			1000~26500	-7.39	-55.06	≤-27.39	PASS

Test Graphs

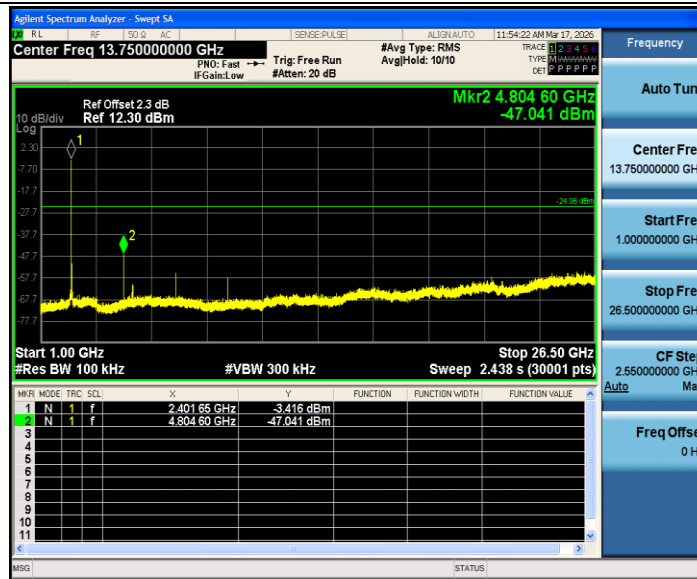
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



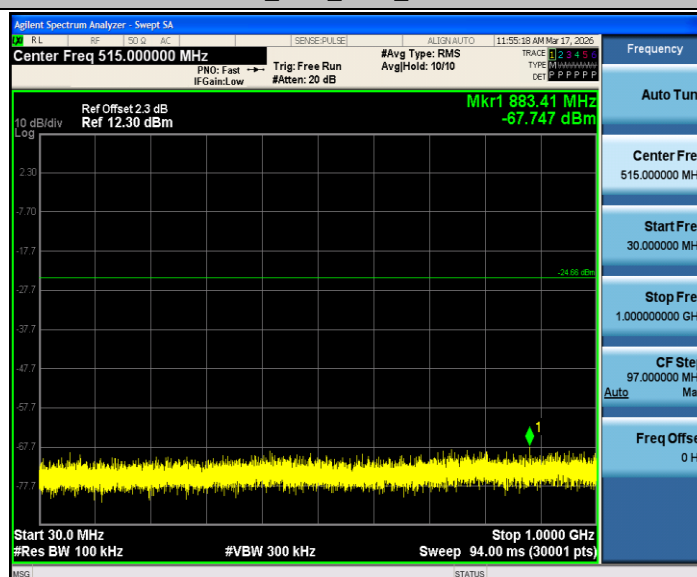
DH5_Ant1_2402_1000~26500



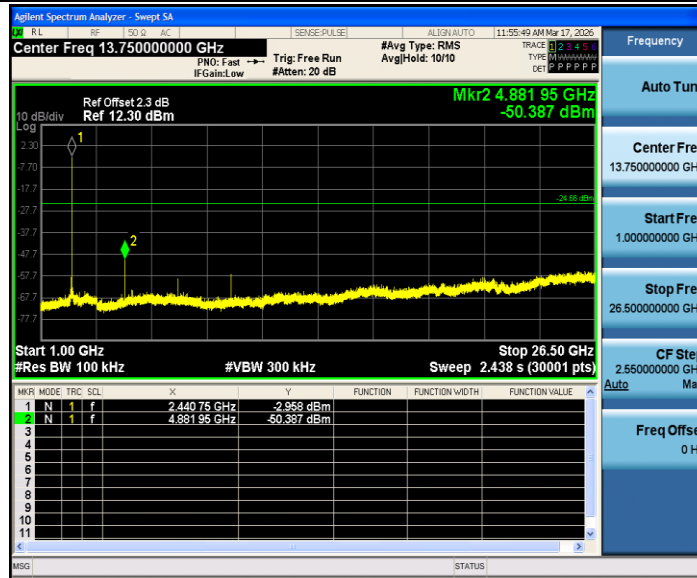
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



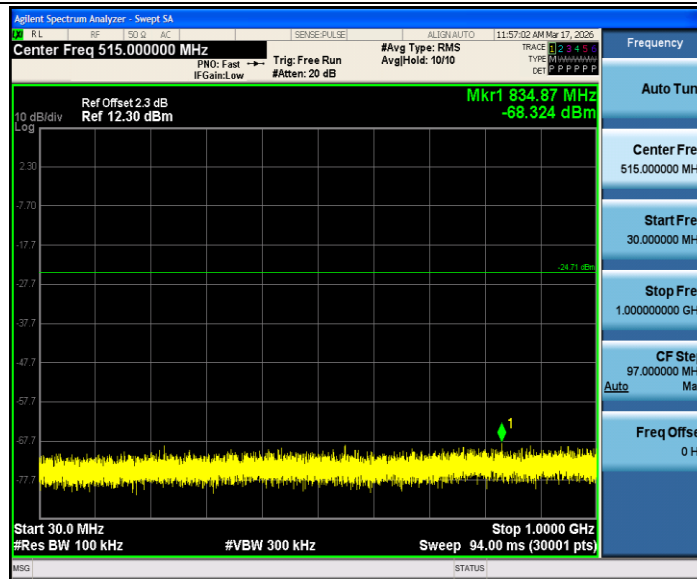
DH5_Ant1_2441_1000~26500



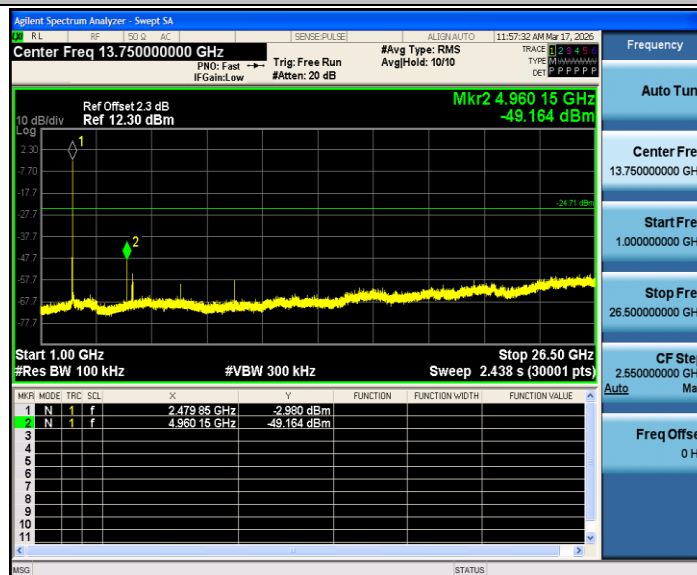
DH5_Ant1_2480_0~Reference



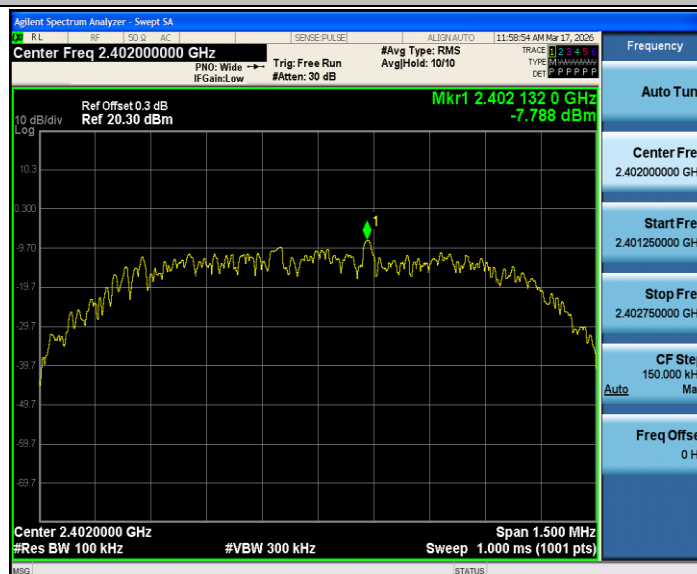
DH5_Ant1_2480_30~1000



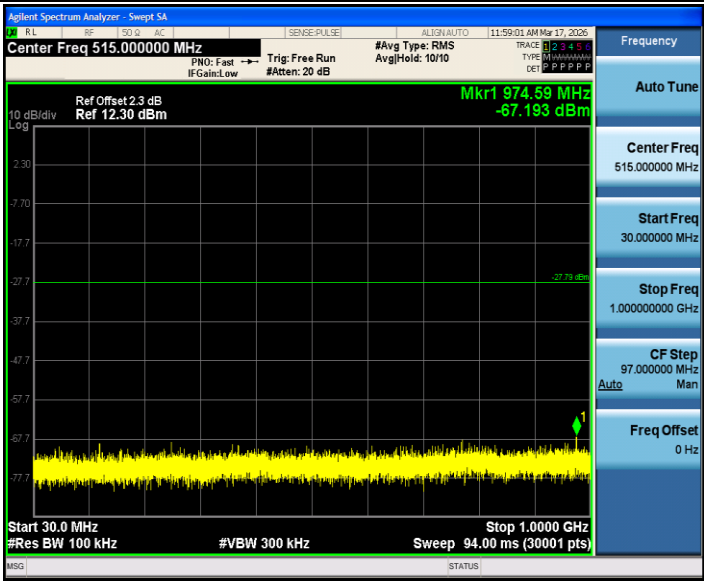
DH5_Ant1_2480_1000~26500



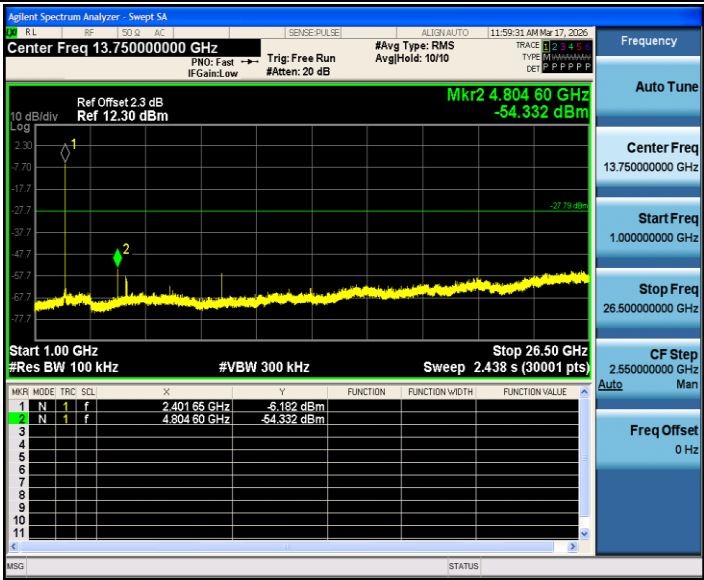
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference