

FCC Appendix RF Test Data for BT

FCC ID : 2BFPH-SMRTWDG01

Company : Facewheels Co., Ltd.

EUT : Smart watch

Model Number : SMRTWDG01

Report No. : CTA26051900101

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	1.017	2401.451	2402.468	---	---
		2441	0.999	2440.454	2441.453	---	---
		2480	0.945	2479.499	2480.444	---	---
2DH5	Ant1	2402	1.209	2401.358	2402.567	---	---
		2441	1.284	2440.331	2441.615	---	---
		2480	1.329	2479.292	2480.621	---	---
3DH5	Ant1	2402	1.311	2401.310	2402.621	---	---
		2441	1.269	2440.325	2441.594	---	---
		2480	1.248	2479.334	2480.582	---	---

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

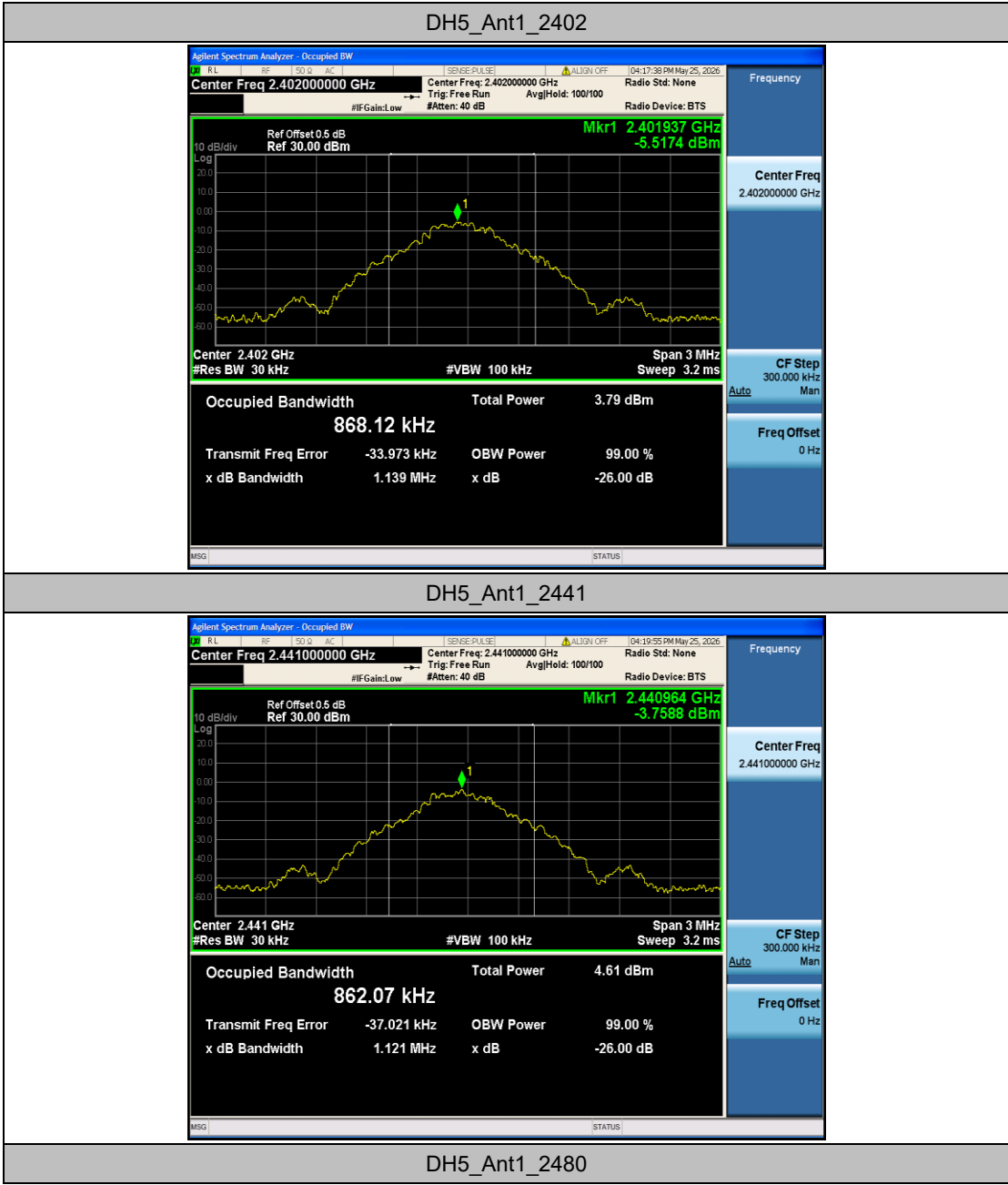


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86812	2401.5320	2402.4001	---	---
		2441	0.86207	2440.5319	2441.3940	---	---
		2480	0.86751	2479.5274	2480.3949	---	---
2DH5	Ant1	2402	1.1718	2401.3769	2402.5487	---	---
		2441	1.1670	2440.3788	2441.5458	---	---
		2480	1.1726	2479.3772	2480.5498	---	---
3DH5	Ant1	2402	1.1771	2401.3766	2402.5537	---	---
		2441	1.1659	2440.3819	2441.5478	---	---
		2480	1.1797	2479.3761	2480.5558	---	---

Test Graphs





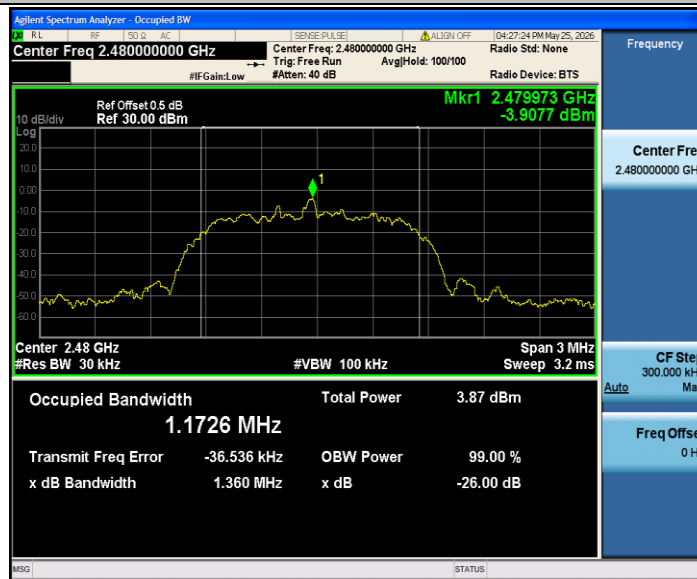
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

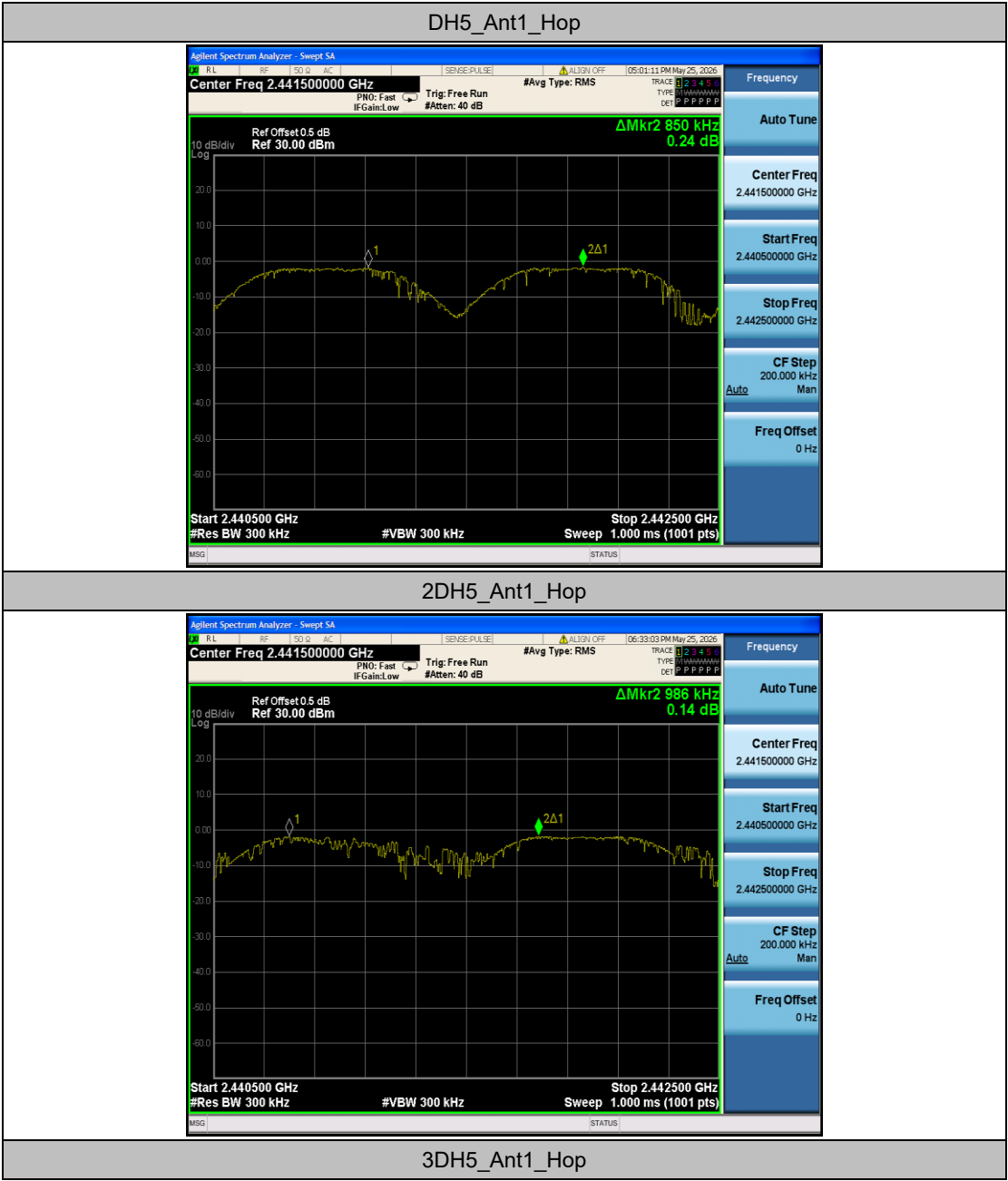
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-2.42	≤20.97	PASS
		2441	-1.70	≤20.97	PASS
		2480	-1.61	≤20.97	PASS
2DH5	Ant1	2402	-1.74	≤20.97	PASS
		2441	-0.99	≤20.97	PASS
		2480	-0.85	≤20.97	PASS
3DH5	Ant1	2402	-1.20	≤20.97	PASS
		2441	-0.34	≤20.97	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	0.85	≥ 0.678	PASS
2DH5	Ant1	Hop	0.986	≥ 0.886	PASS
3DH5	Ant1	Hop	0.908	≥ 0.874	PASS

Test Graphs



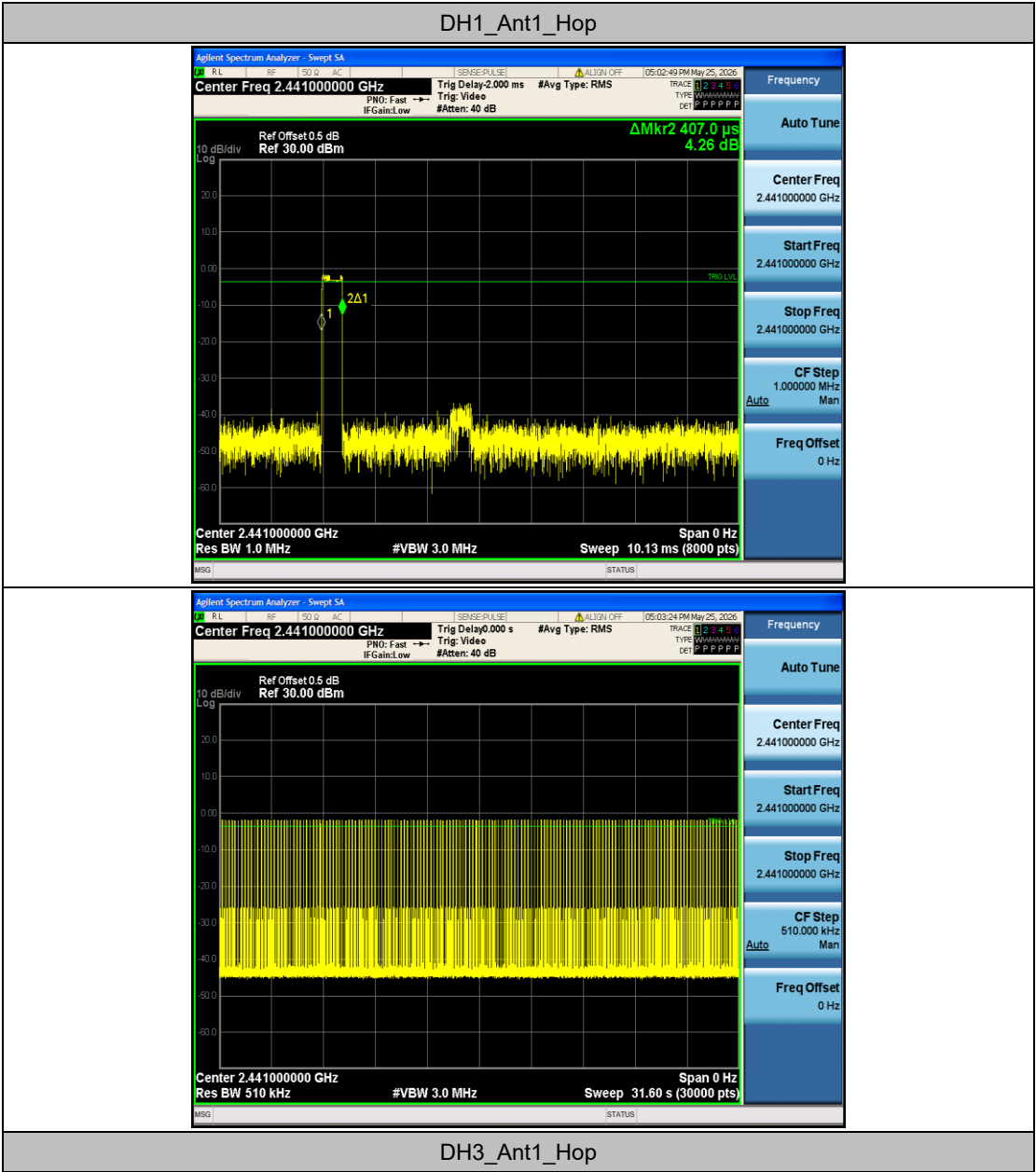


Appendix E: Time of occupancy

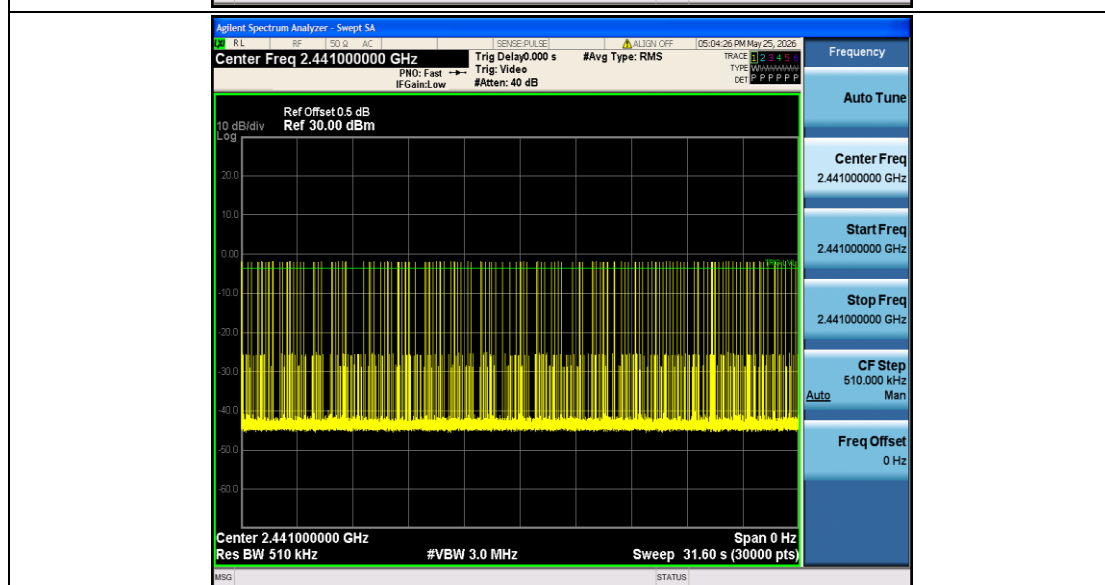
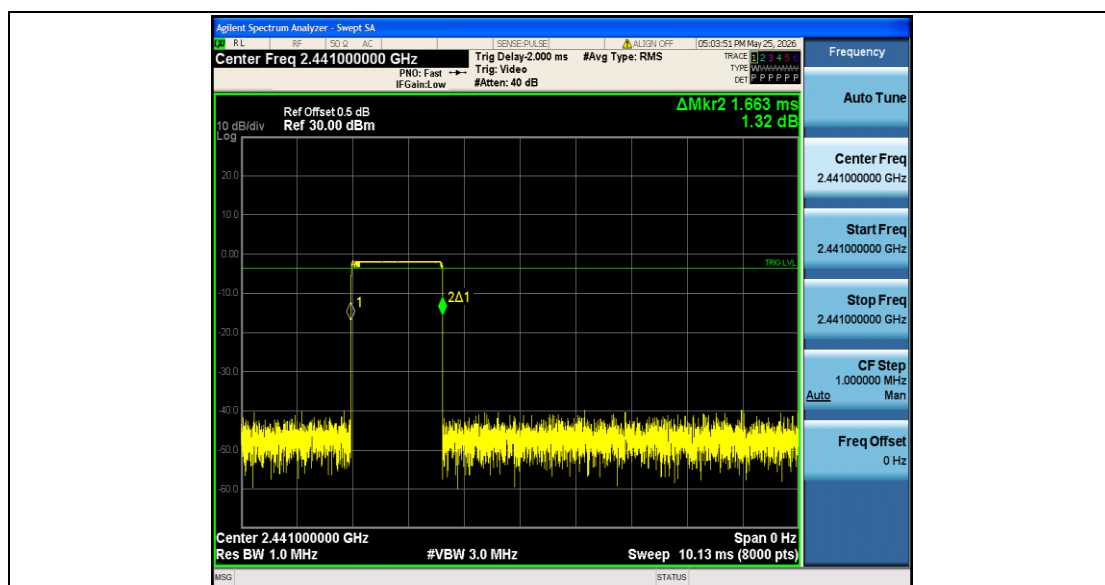
Test Result

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	1.663	161	0.268	≤0.4	PASS
DH5	Ant1	Hop	2.911	103	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.418	320	0.134	≤0.4	PASS
2DH3	Ant1	Hop	1.669	161	0.269	≤0.4	PASS
2DH5	Ant1	Hop	2.917	113	0.33	≤0.4	PASS
3DH1	Ant1	Hop	0.419	320	0.134	≤0.4	PASS
3DH3	Ant1	Hop	1.668	162	0.27	≤0.4	PASS
3DH5	Ant1	Hop	2.920	94	0.274	≤0.4	PASS

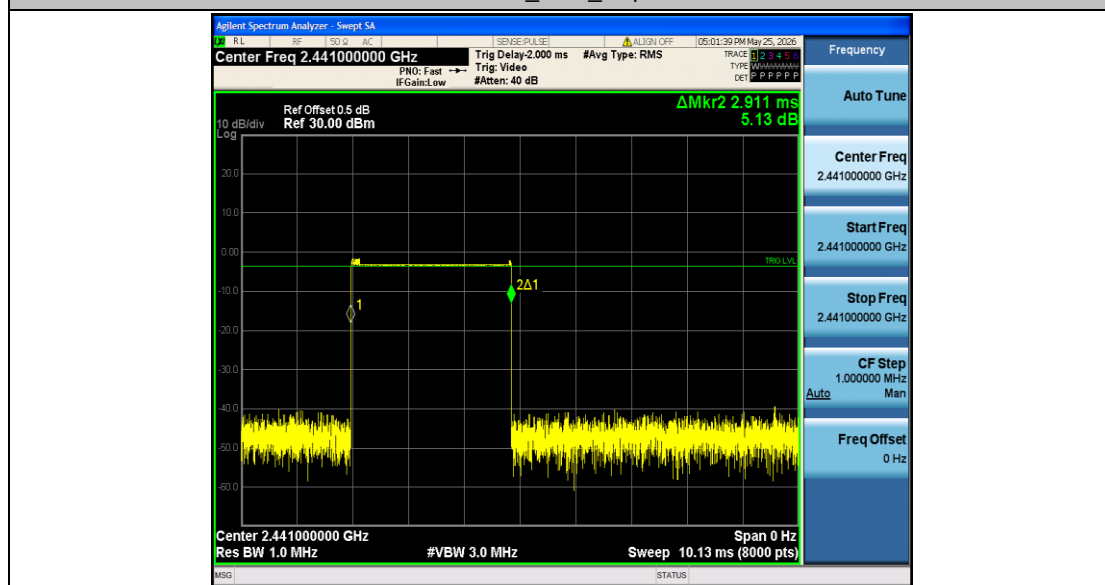
Test Graphs

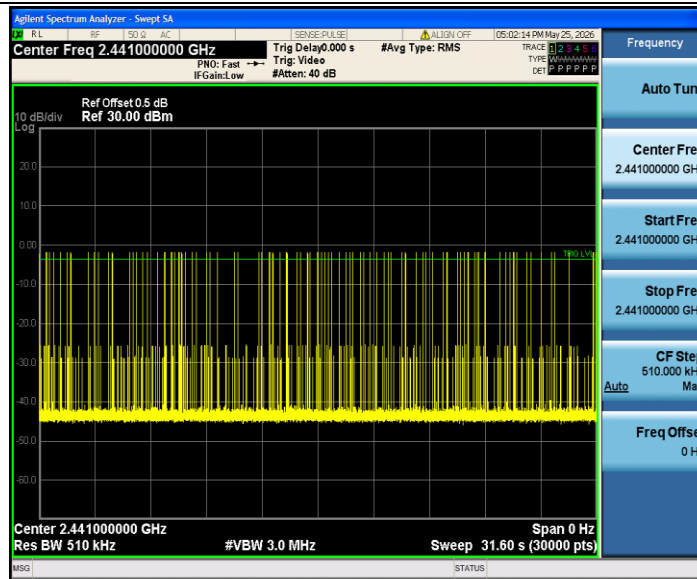


DH3_Ant1_Hop

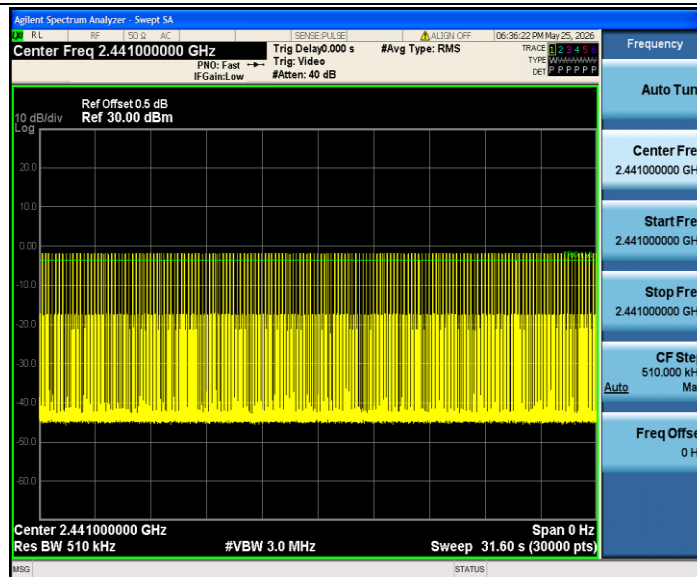
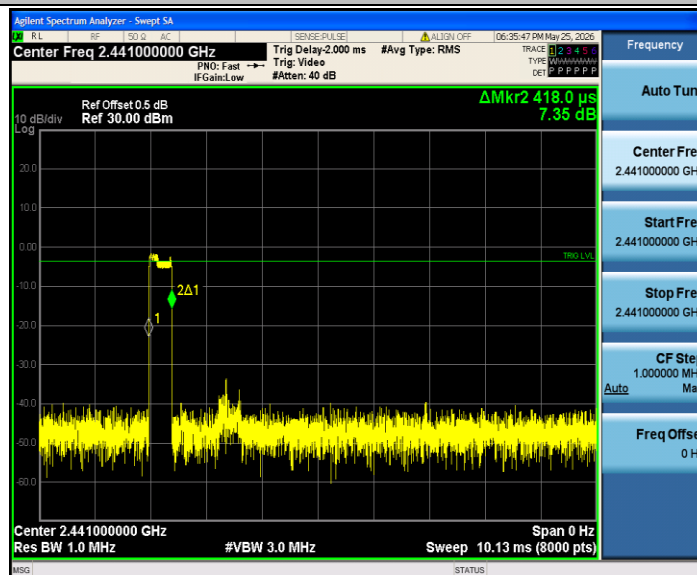


DH5_Ant1_Hop

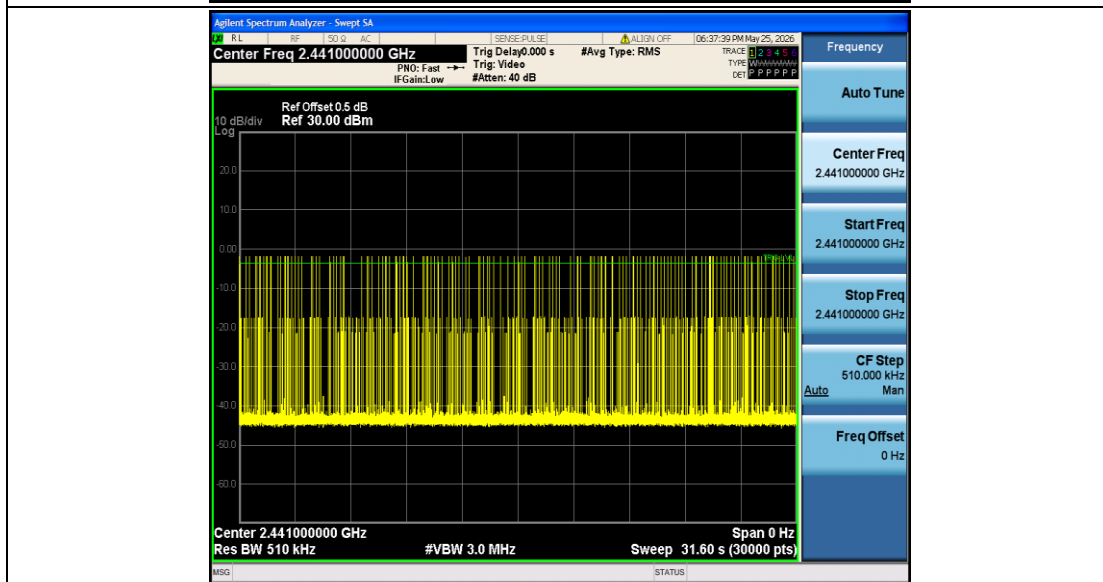
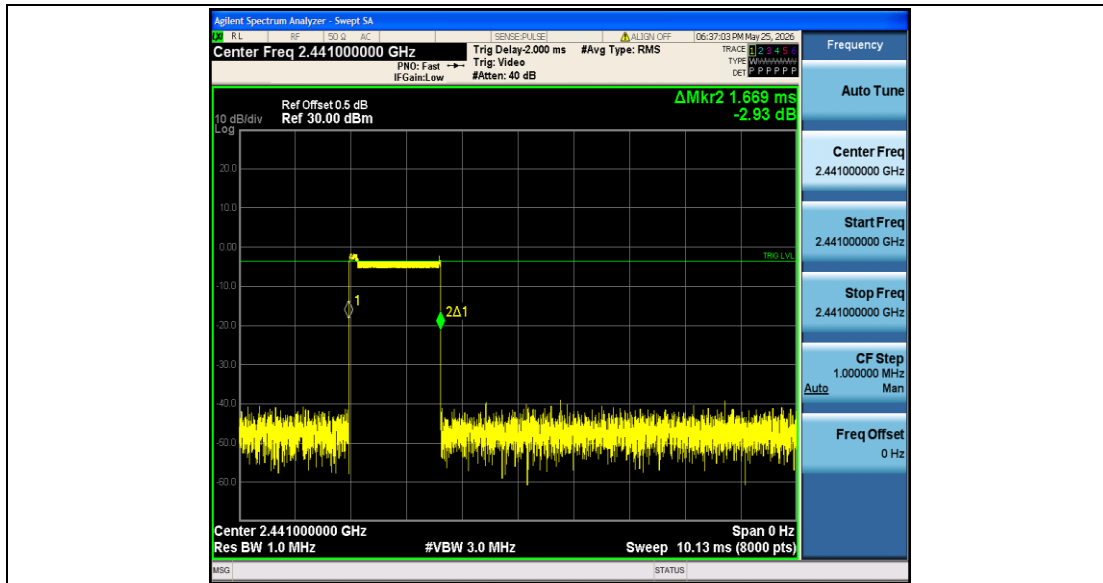




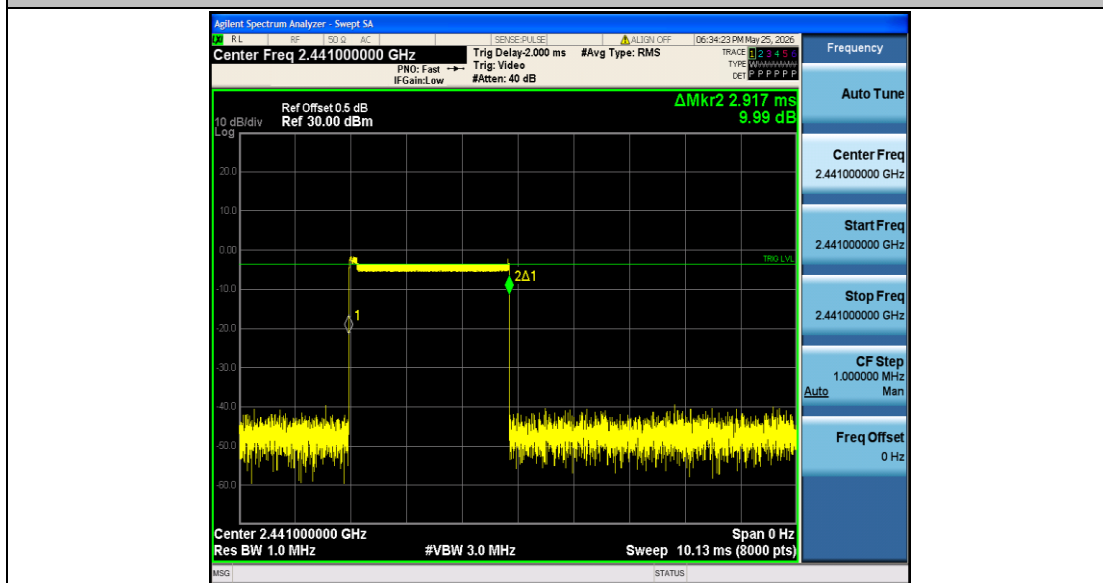
2DH1_Ant1_Hop

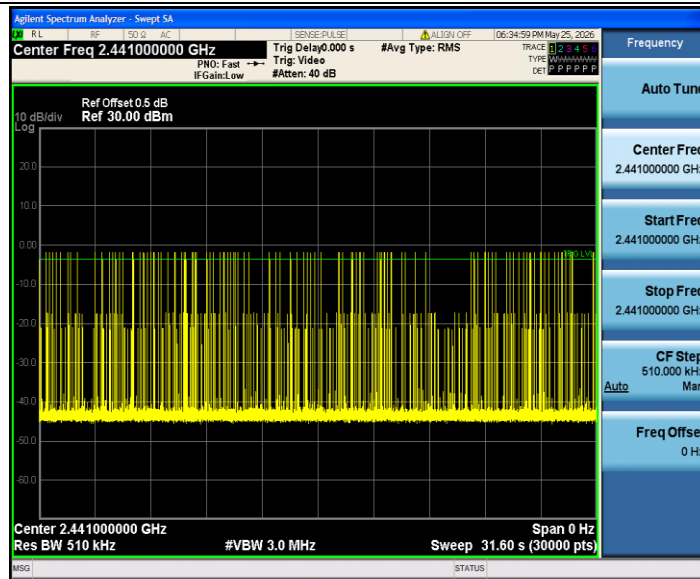


2DH3_Ant1_Hop

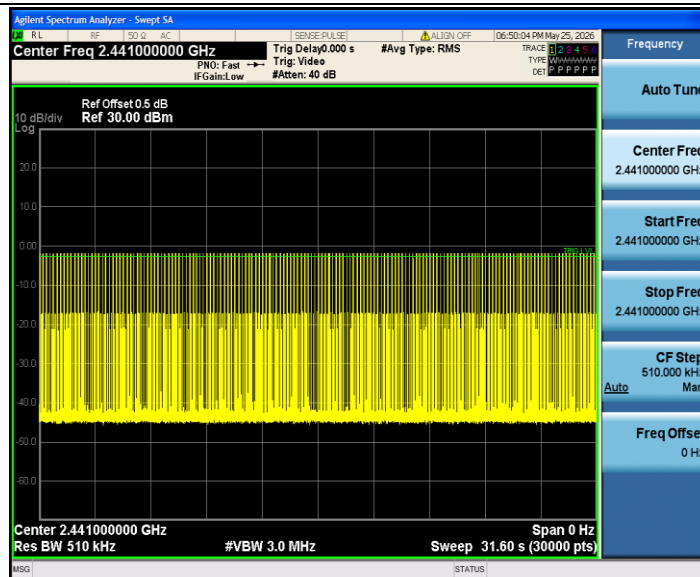
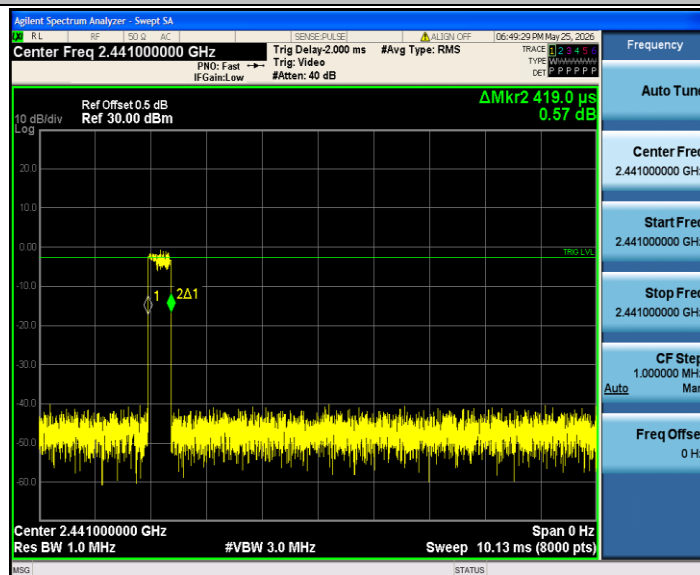


2DH5_Ant1_Hop

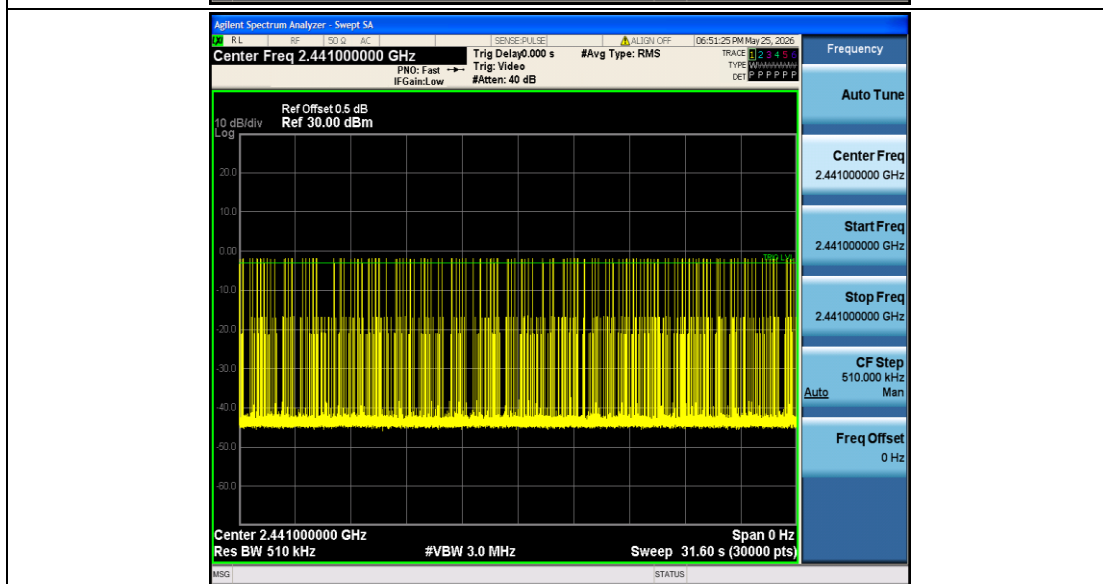
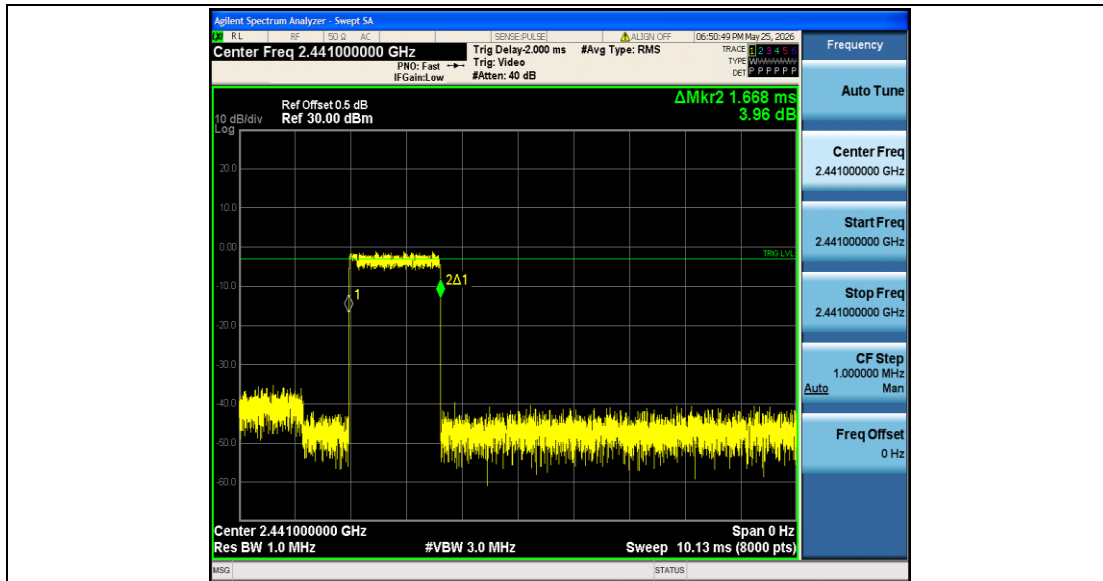




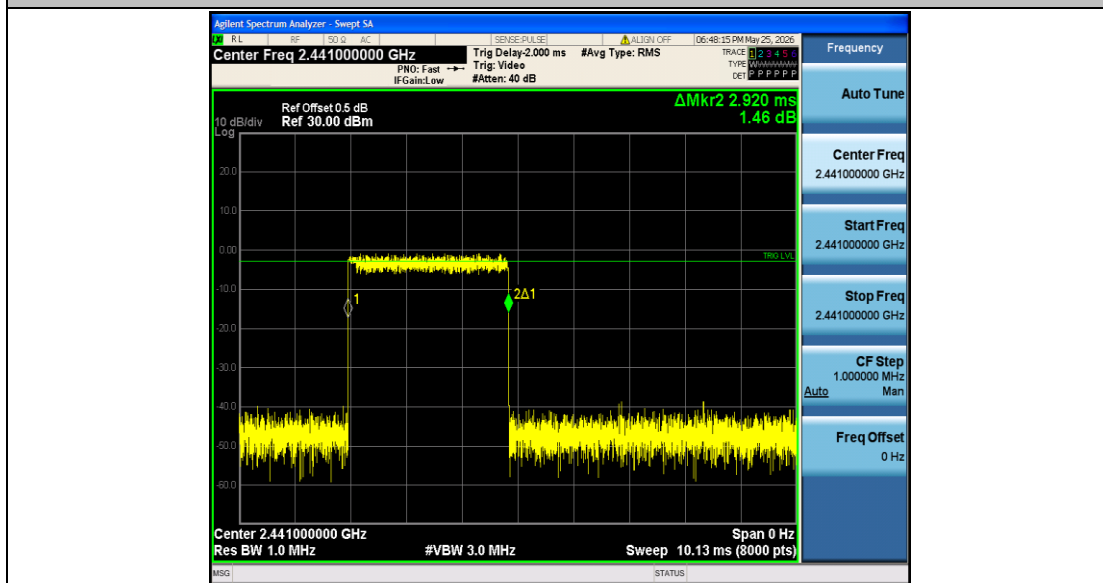
3DH1_Ant1_Hop

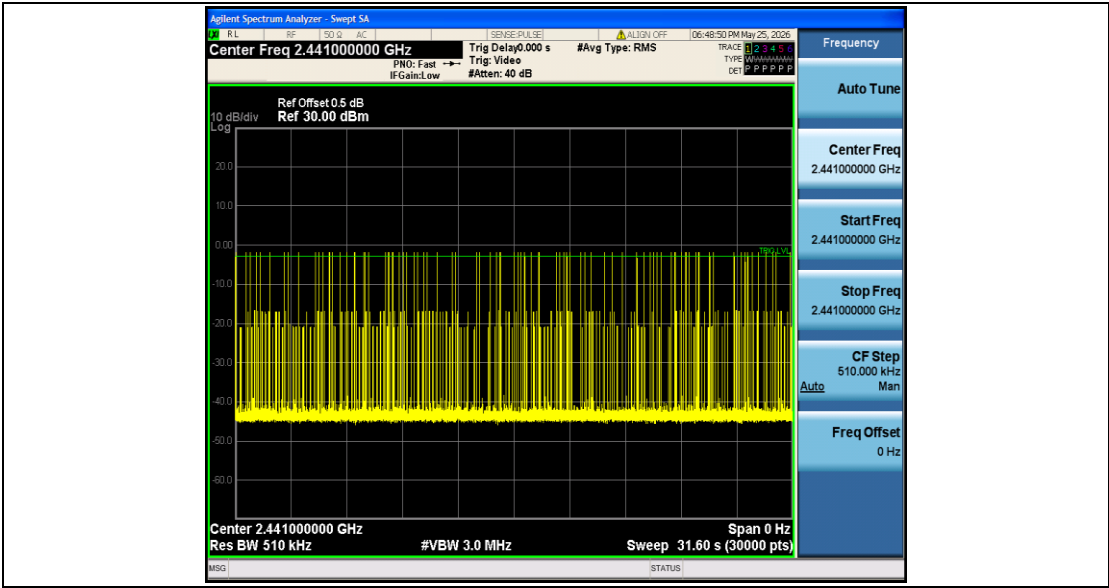


3DH3_Ant1_Hop



3DH5_Ant1_Hop



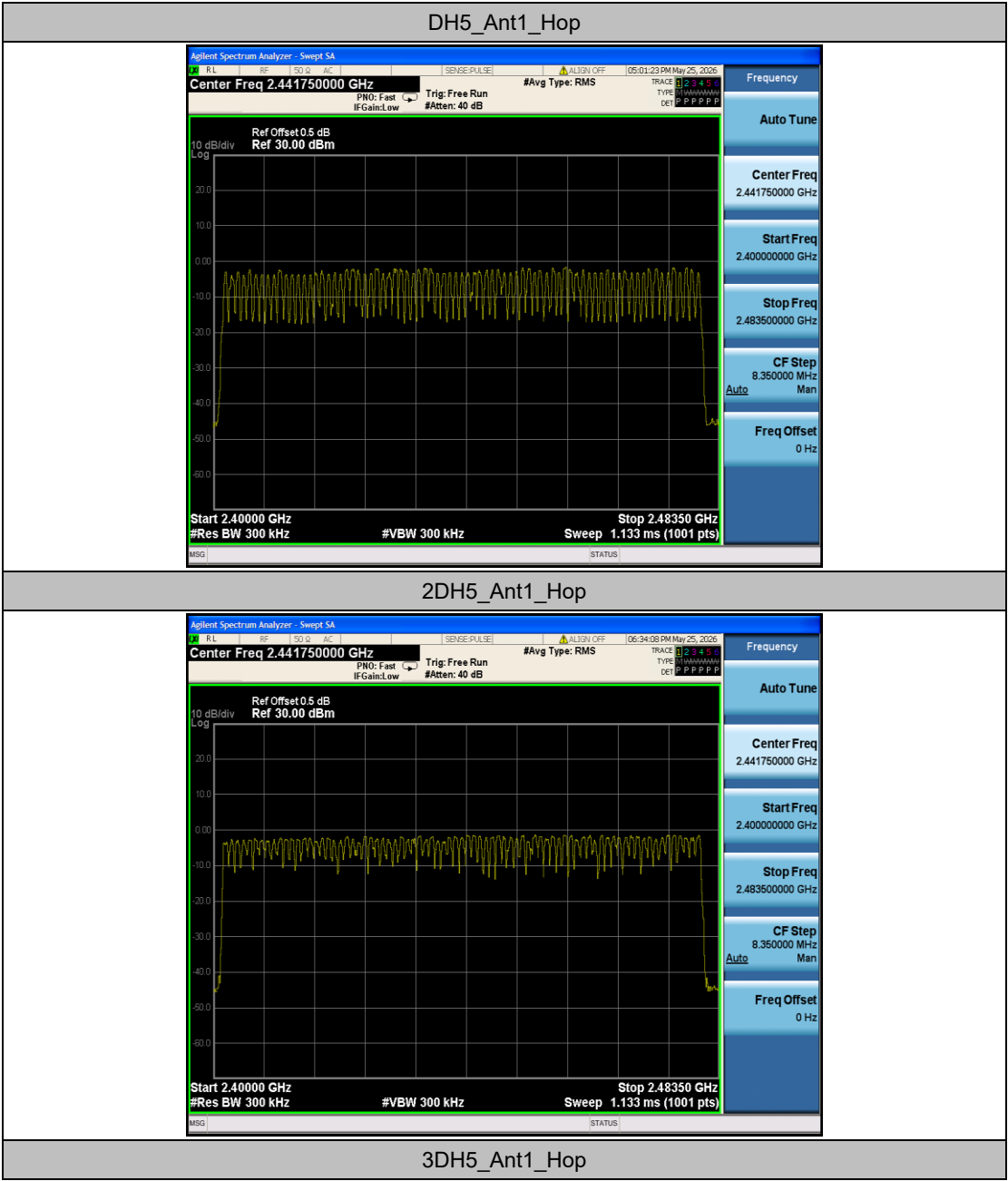


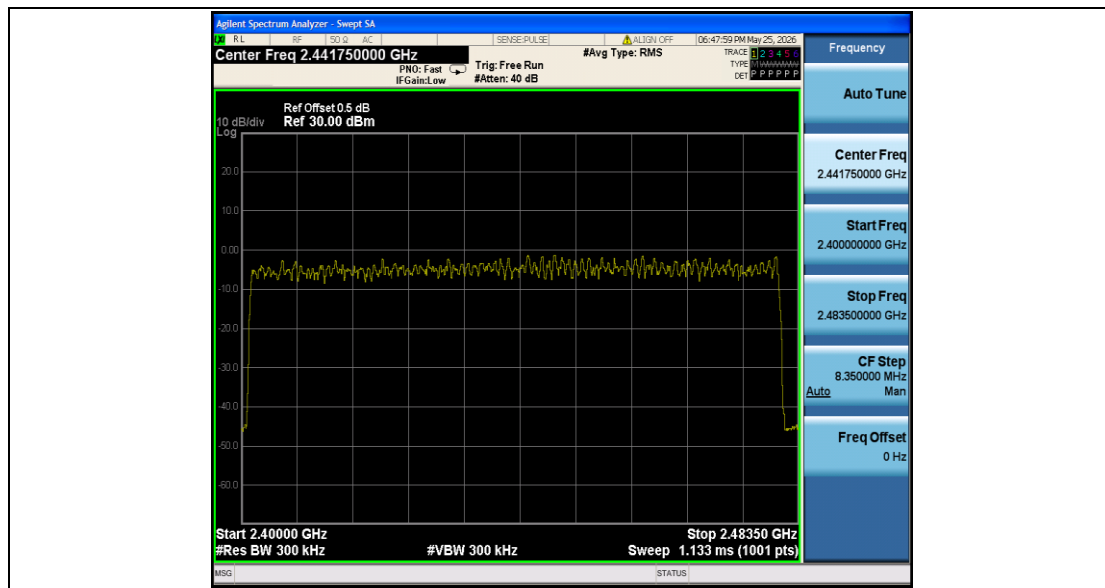
Appendix F: Number of hopping channels

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



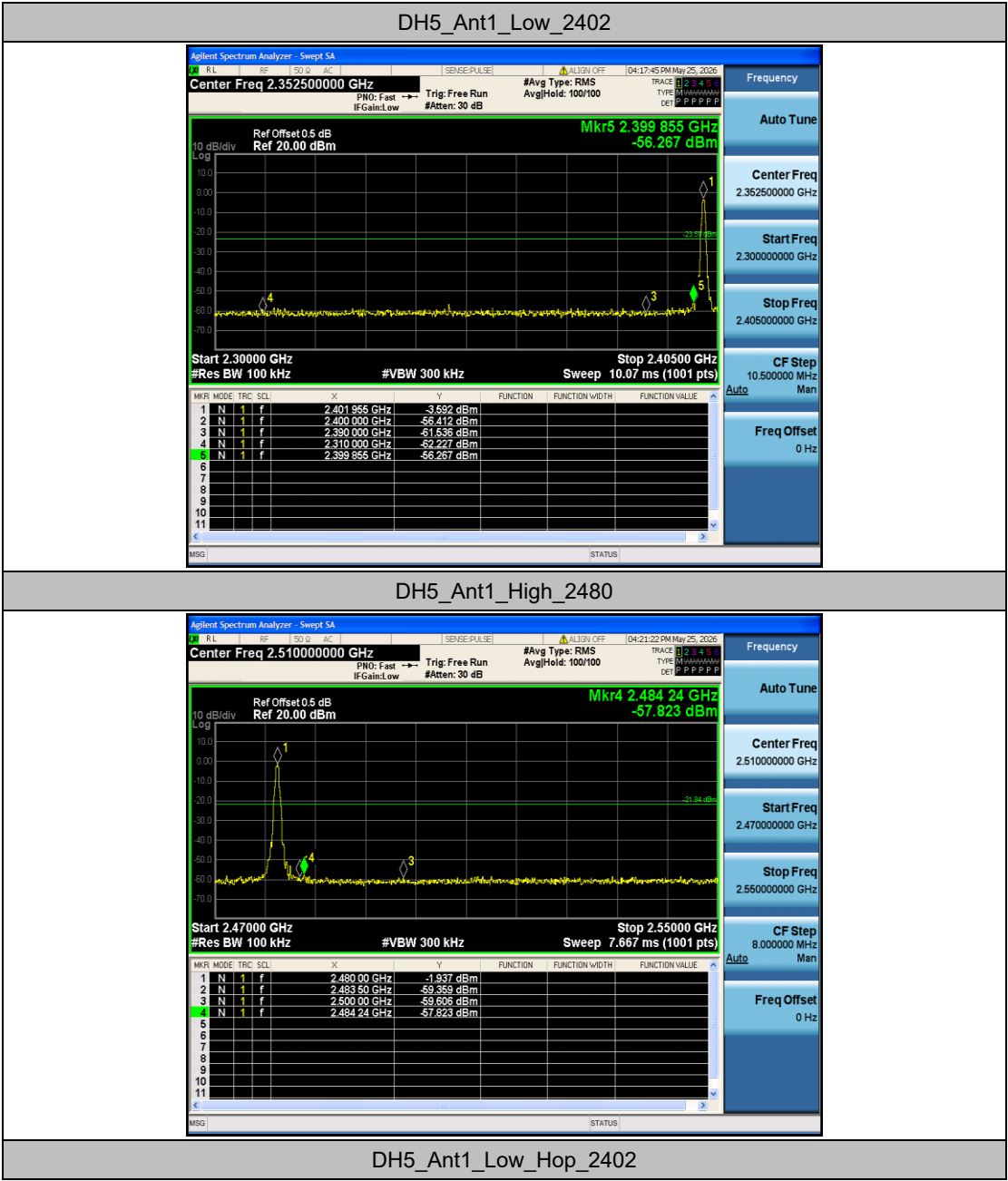


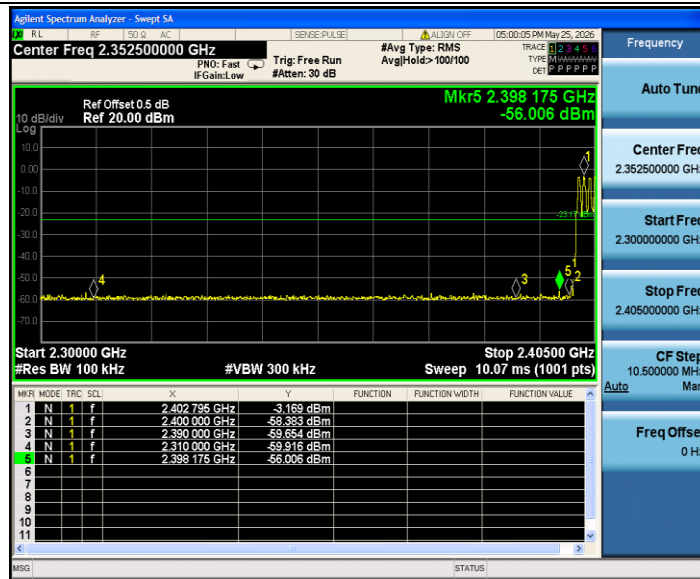
Appendix G: Band edge measurements

Test Result

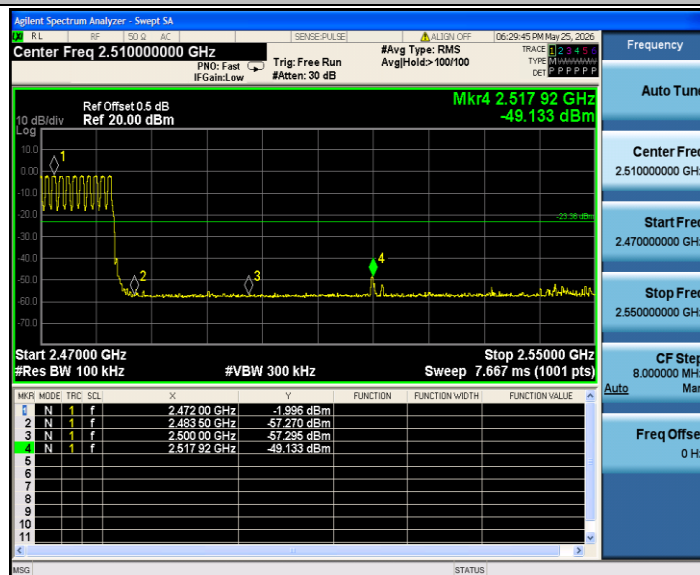
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.59	-56.27	≤-23.59	PASS
		High	2480	-1.94	-57.82	≤-21.94	PASS
		Low	Hop_2402	-3.17	-56.01	≤-23.17	PASS
		High	Hop_2480	-3.36	-54.54	≤-23.36	PASS
2DH5	Ant1	Low	2402	-3.77	-56.8	≤-23.77	PASS
		High	2480	-2.86	-57.45	≤-22.86	PASS
		Low	Hop_2402	-2.90	-56.89	≤-22.9	PASS
		High	Hop_2480	-2.81	-46.38	≤-22.81	PASS
3DH5	Ant1	Low	2402	-3.16	-55.07	≤-23.16	PASS
		High	2480	-2.27	-57.46	≤-22.27	PASS
		Low	Hop_2402	-3.49	-56.05	≤-23.49	PASS
		High	Hop_2480	-2.22	-47.6	≤-22.22	PASS

Test Graphs

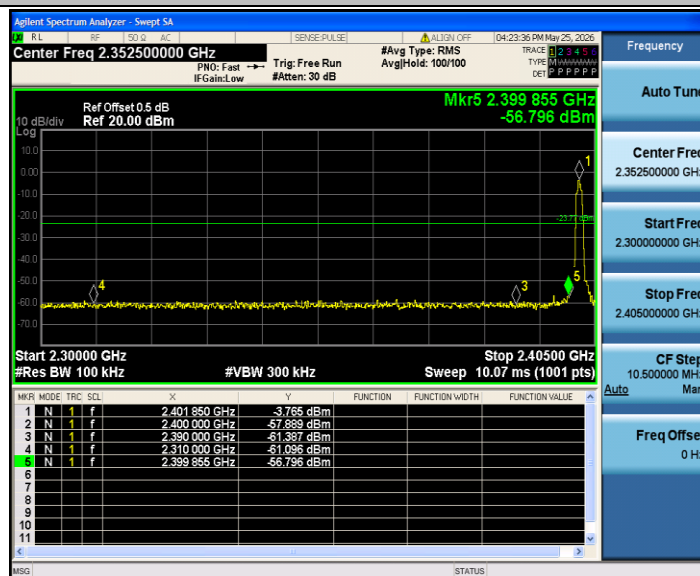




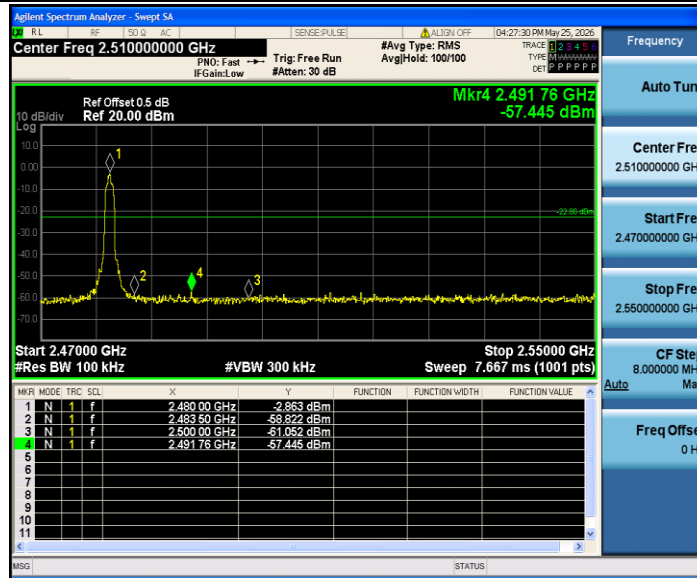
DH5_Ant1_High_Hop_2480



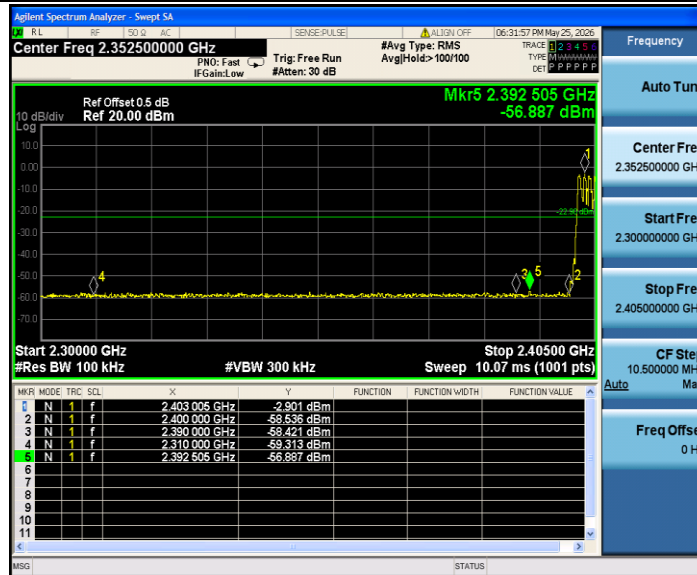
2DH5_Ant1_Low_2402



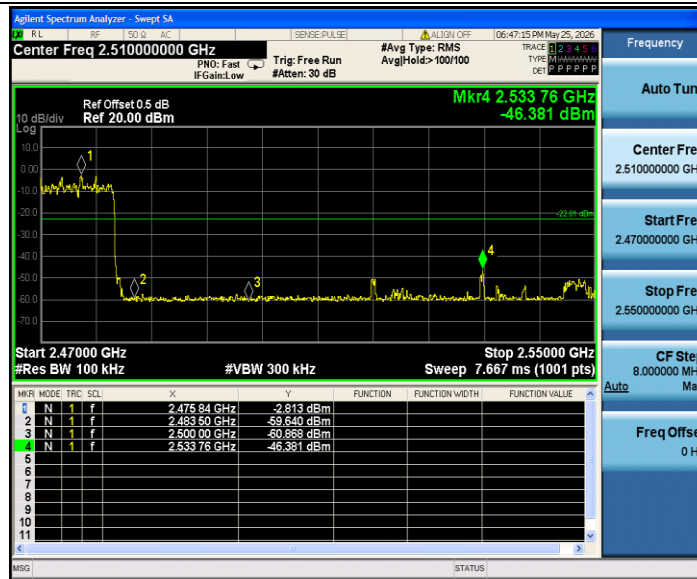
2DH5_Ant1_High_2480



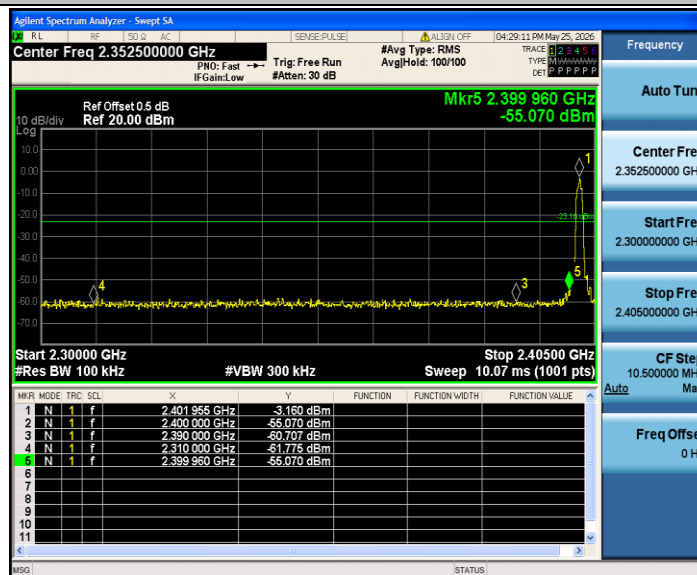
2DH5_Ant1_Low_Hop_2402



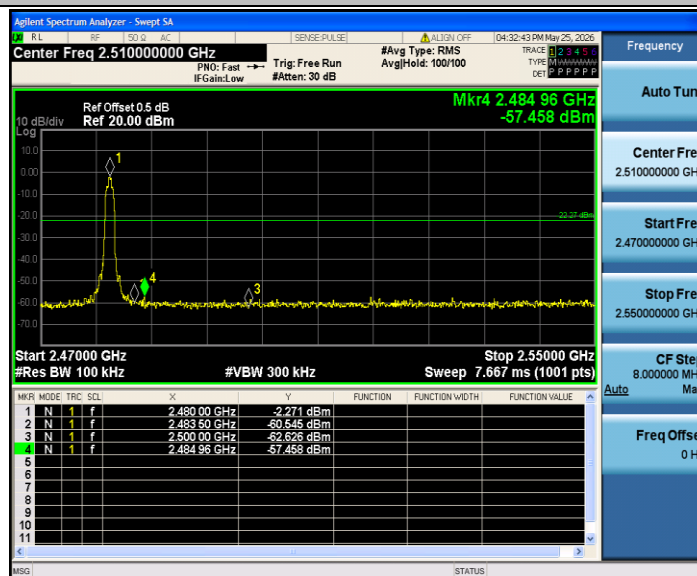
2DH5_Ant1_High_Hop_2480



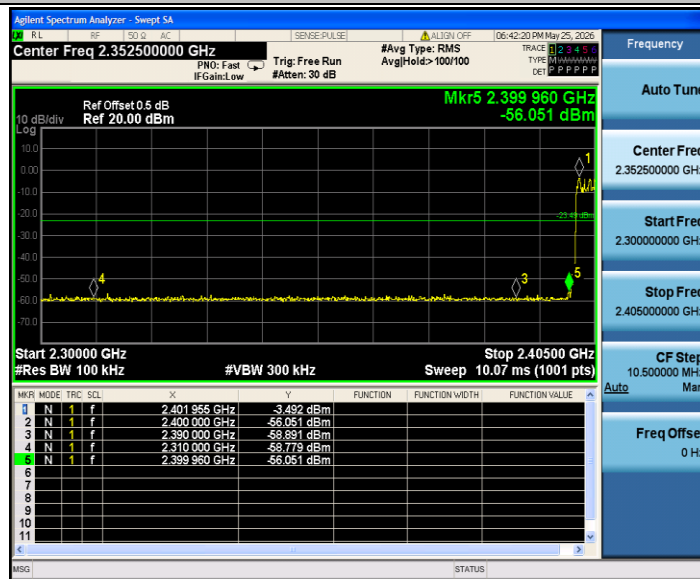
3DH5_Ant1_Low_2402



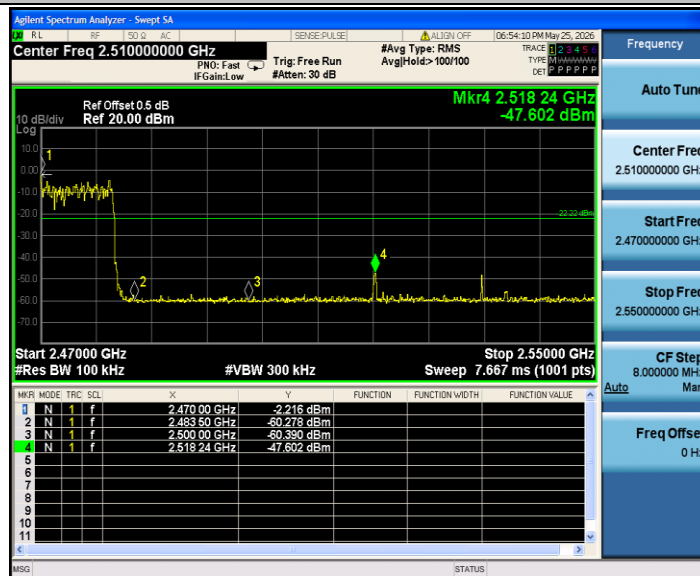
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

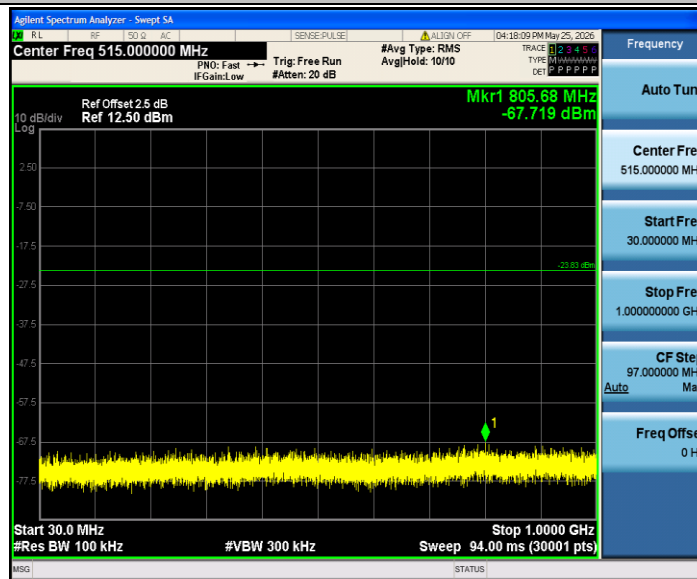
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.83	-3.83	---	PASS
			30~1000	-3.83	-67.72	≤-23.83	PASS
			1000~26500	-3.83	-34.71	≤-23.83	PASS
		2441	Reference	-3.26	-3.26	---	PASS
			30~1000	-3.26	-68.07	≤-23.26	PASS
			1000~26500	-3.26	-32.47	≤-23.26	PASS
		2480	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-68.18	≤-22.54	PASS
			1000~26500	-2.54	-31.91	≤-22.54	PASS
2DH5	Ant1	2402	Reference	-5.87	-5.87	---	PASS
			30~1000	-5.87	-68.18	≤-25.87	PASS
			1000~26500	-5.87	-38.22	≤-25.87	PASS
		2441	Reference	-6.73	-6.73	---	PASS
			30~1000	-6.73	-67.73	≤-26.73	PASS
			1000~26500	-6.73	-35.77	≤-26.73	PASS
		2480	Reference	-4.84	-4.84	---	PASS
			30~1000	-4.84	-67.83	≤-24.84	PASS
			1000~26500	-4.84	-33.67	≤-24.84	PASS
3DH5	Ant1	2402	Reference	-5.82	-5.82	---	PASS
			30~1000	-5.82	-67.86	≤-25.82	PASS
			1000~26500	-5.82	-37.19	≤-25.82	PASS
		2441	Reference	-6.13	-6.13	---	PASS
			30~1000	-6.13	-68.08	≤-26.13	PASS
			1000~26500	-6.13	-32.74	≤-26.13	PASS
		2480	Reference	-3.26	-3.26	---	PASS
			30~1000	-3.26	-67.52	≤-23.26	PASS
			1000~26500	-3.26	-35.57	≤-23.26	PASS

Test Graphs

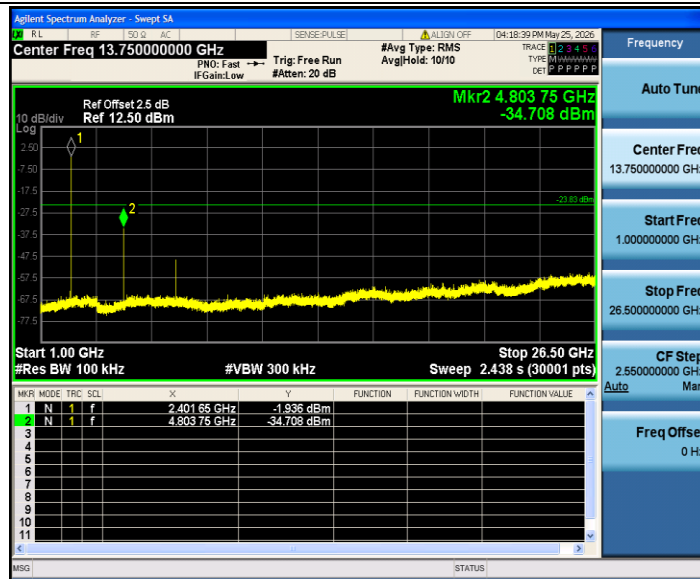
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

