

FCC Appendix RF Test Data

FCC ID : 2BF3S-FS-R213LS

Company : Dongguan Faraoou Electric Appliance Co., Ltd

EUT : Portable Wireless Speaker System

Model Number : FS-R213LS

Report No. : CTA25061100501

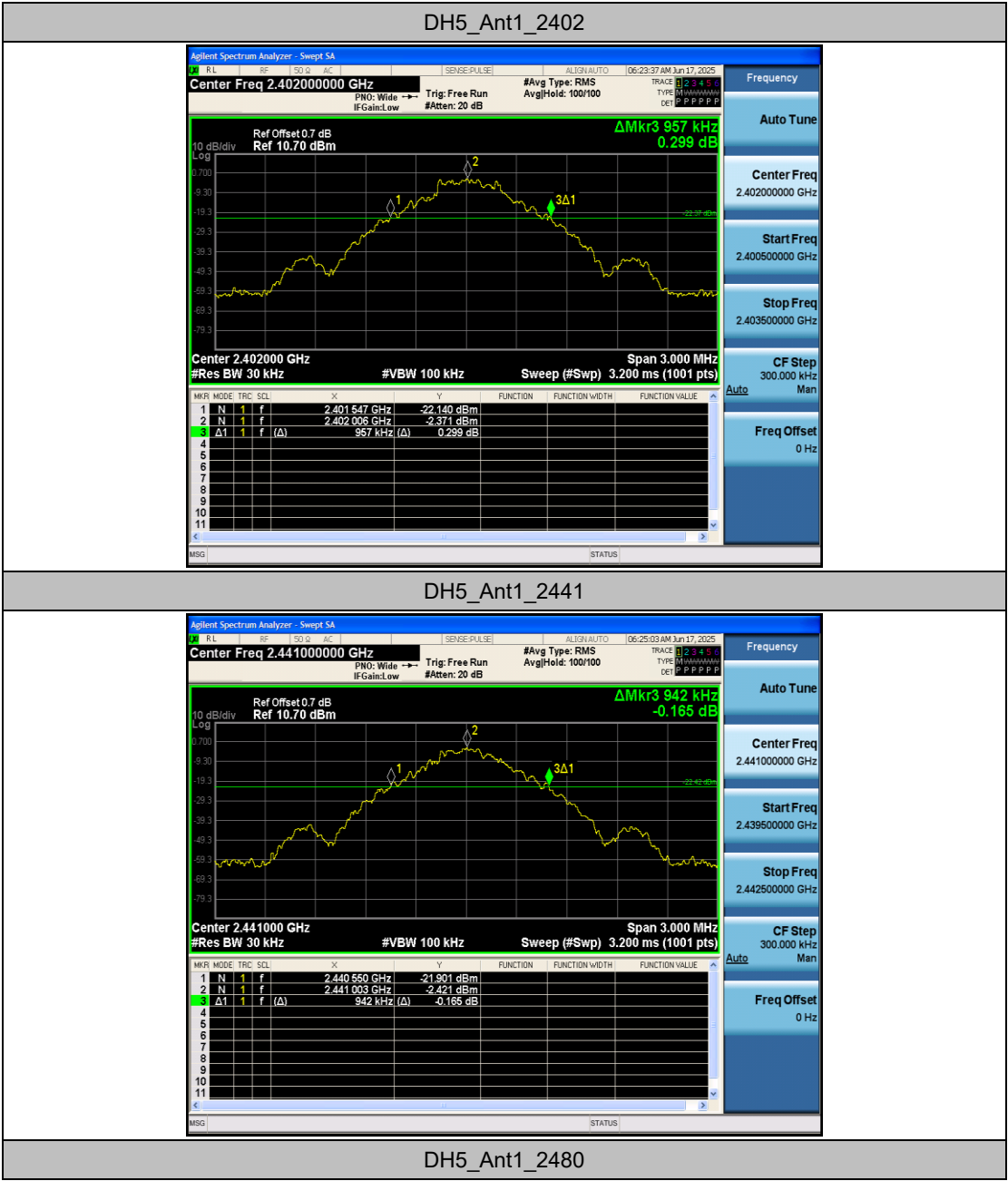
Reviewed By : Eric Wang

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	2401.547	2402.504	---	---
		2441	0.942	2440.550	2441.492	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.275	2401.385	2402.660	---	---
		2441	1.272	2440.388	2441.660	---	---
		2480	1.278	2479.382	2480.660	---	---
3DH5	Ant1	2402	1.317	2401.349	2402.666	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.326	2479.346	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

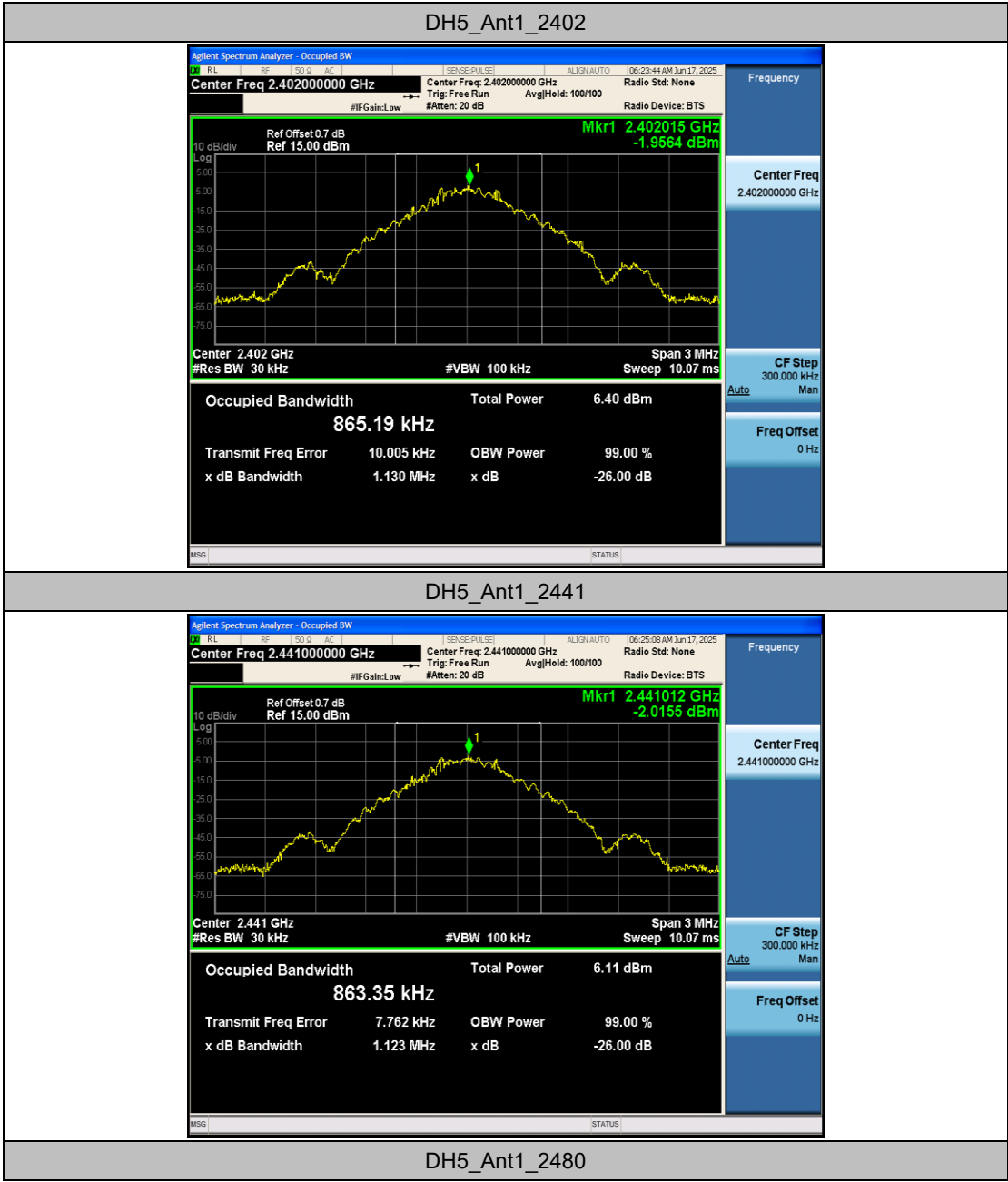


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86519	2401.5774	2402.4426	---	---
		2441	0.86335	2440.5761	2441.4394	---	---
		2480	0.86583	2479.5788	2480.4446	---	---
2DH5	Ant1	2402	1.1892	2401.4152	2402.6044	---	---
		2441	1.1902	2440.4160	2441.6062	---	---
		2480	1.1882	2479.4168	2480.6050	---	---
3DH5	Ant1	2402	1.1875	2401.4171	2402.6046	---	---
		2441	1.1890	2440.4169	2441.6059	---	---
		2480	1.1883	2479.4168	2480.6051	---	---

Test Graphs

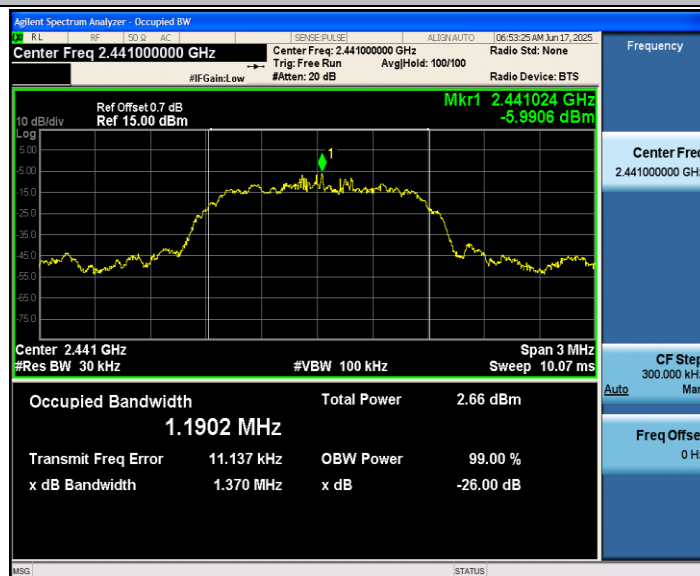




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



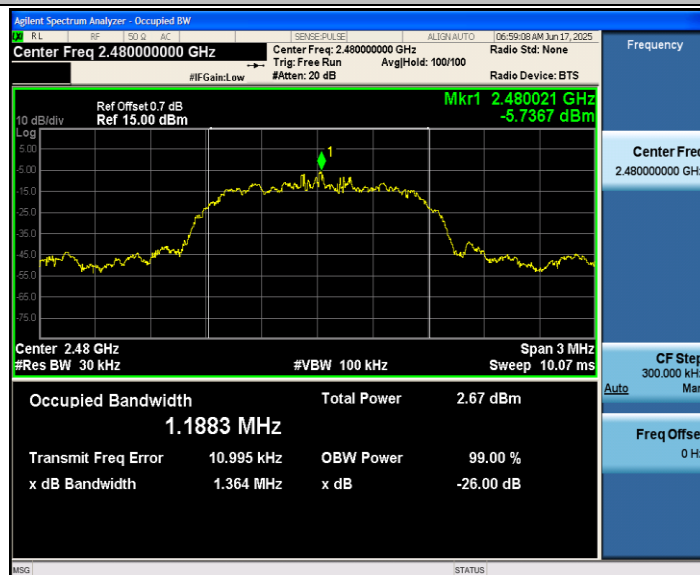
3DH5_Ant1_2402



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	0.34	≤20.97	PASS
		2441	0.08	≤20.97	PASS
		2480	0.00	≤20.97	PASS
2DH5	Ant1	2402	-0.48	≤20.97	PASS
		2441	-0.73	≤20.97	PASS
		2480	-0.84	≤20.97	PASS
3DH5	Ant1	2402	-0.52	≤20.97	PASS
		2441	-0.70	≤20.97	PASS
		2480	-0.79	≤20.97	PASS

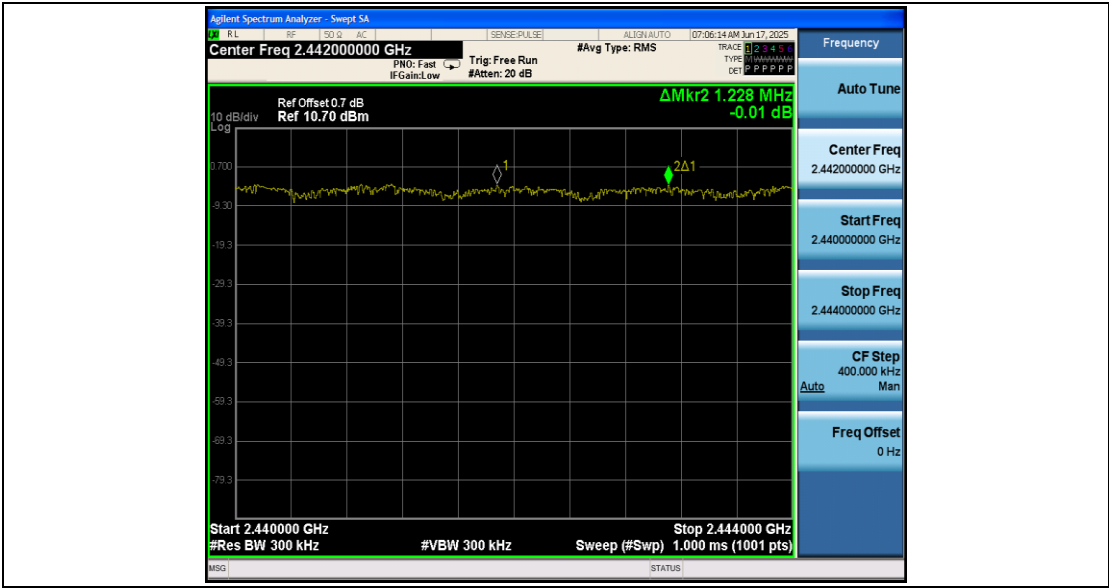
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥ 0.957	PASS
2DH5	Ant1	Hop	1.252	≥ 0.852	PASS
3DH5	Ant1	Hop	1.228	≥ 0.884	PASS

Test Graphs



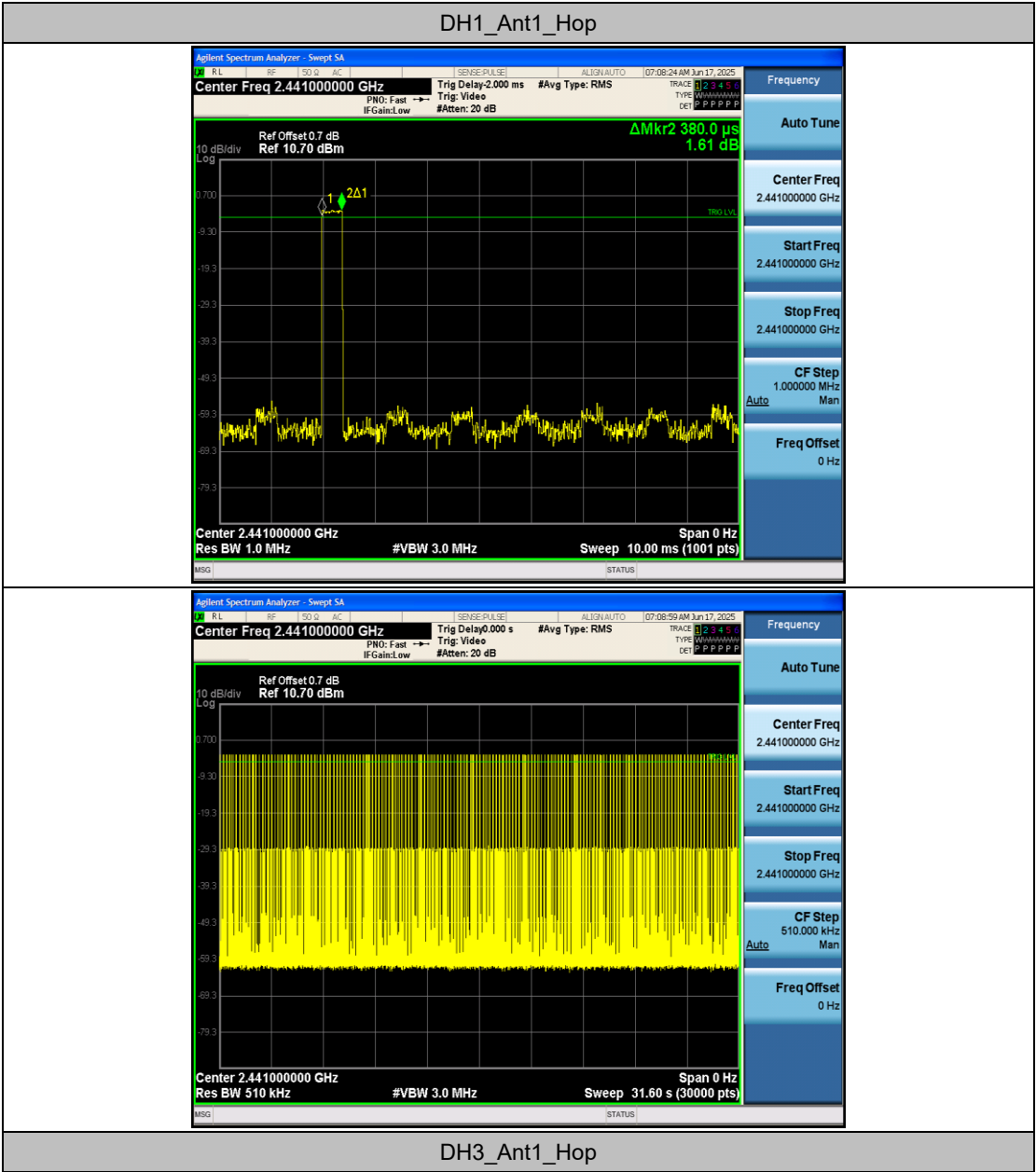


Appendix E: Time of occupancy

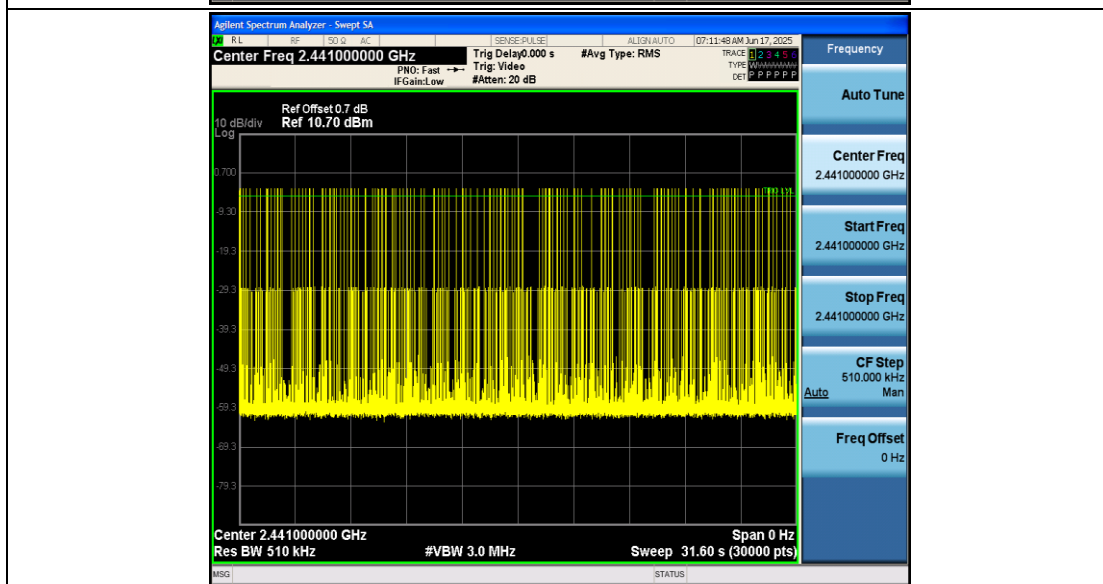
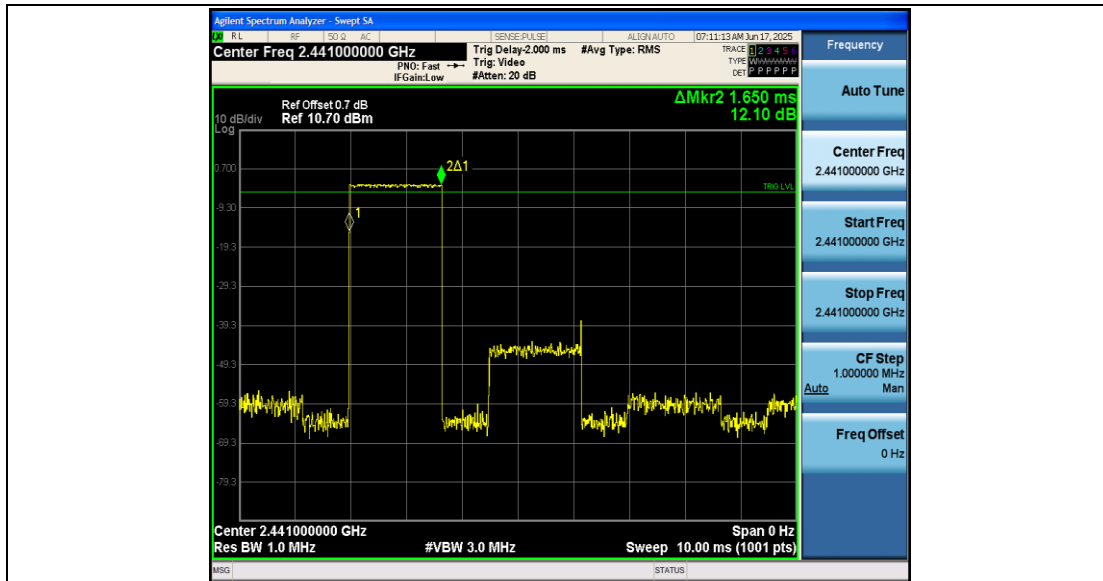
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	317	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.650	158	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.890	105	0.303	≤0.4	PASS
2DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.650	161	0.266	≤0.4	PASS
2DH5	Ant1	Hop	2.900	105	0.305	≤0.4	PASS
3DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	158	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.900	106	0.307	≤0.4	PASS

Test Graphs

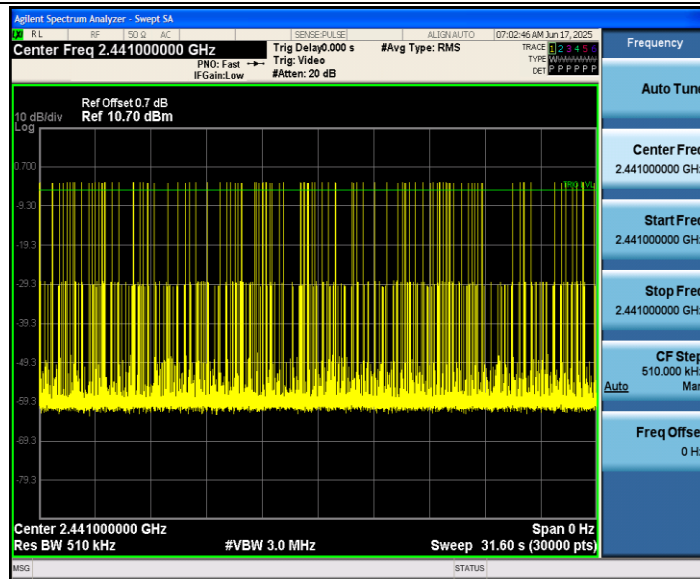


DH3_Ant1_Hop

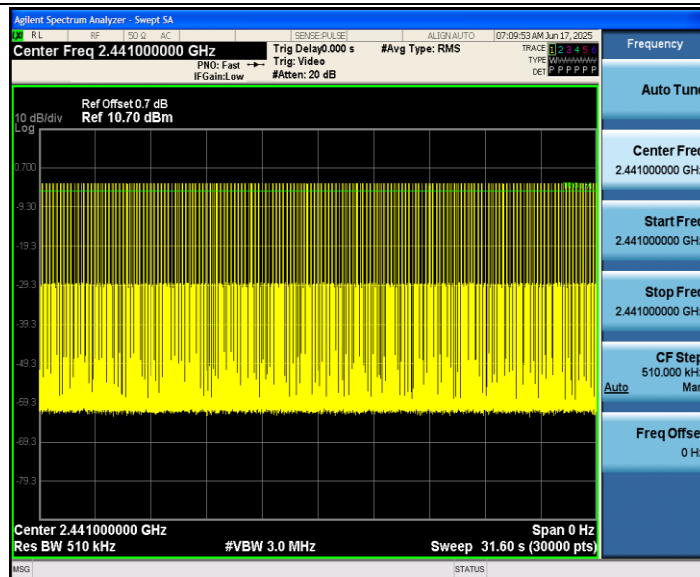
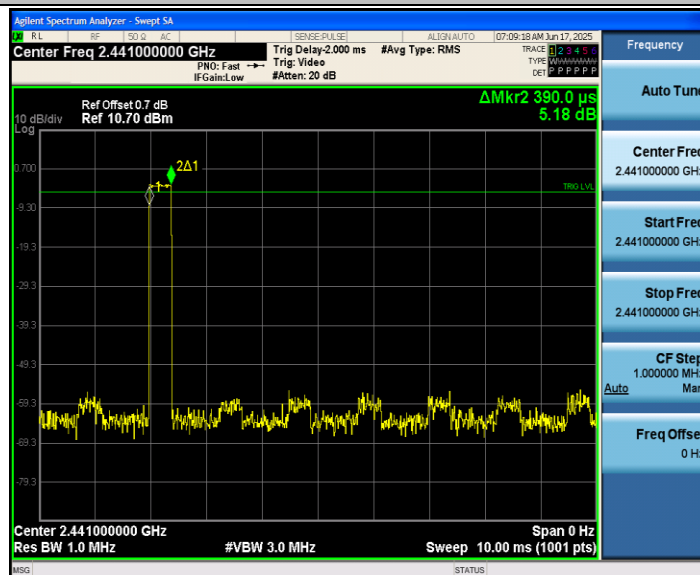


DH5_Ant1_Hop

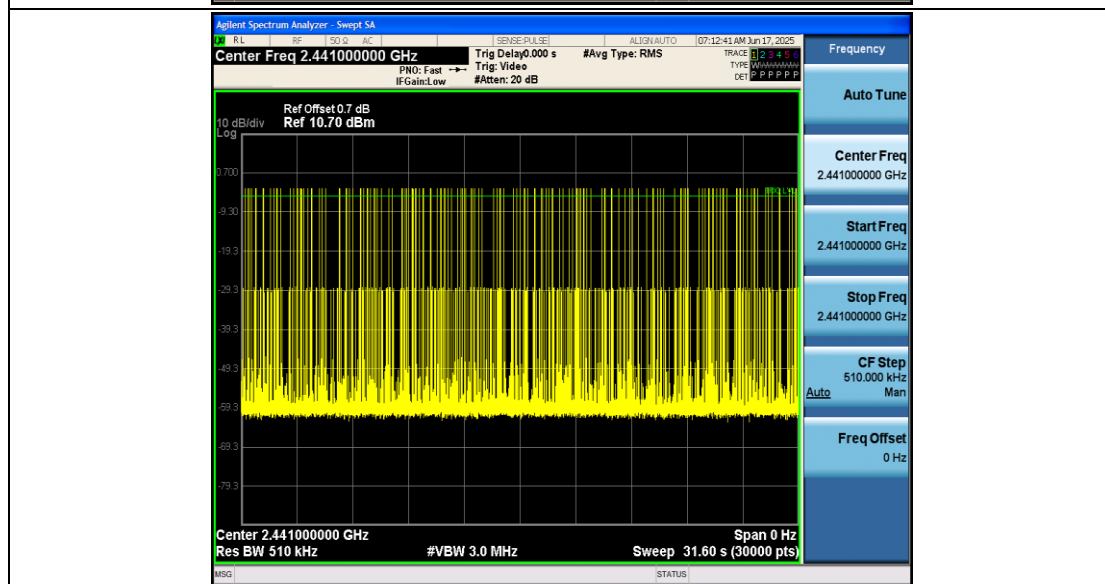




2DH1_Ant1_Hop

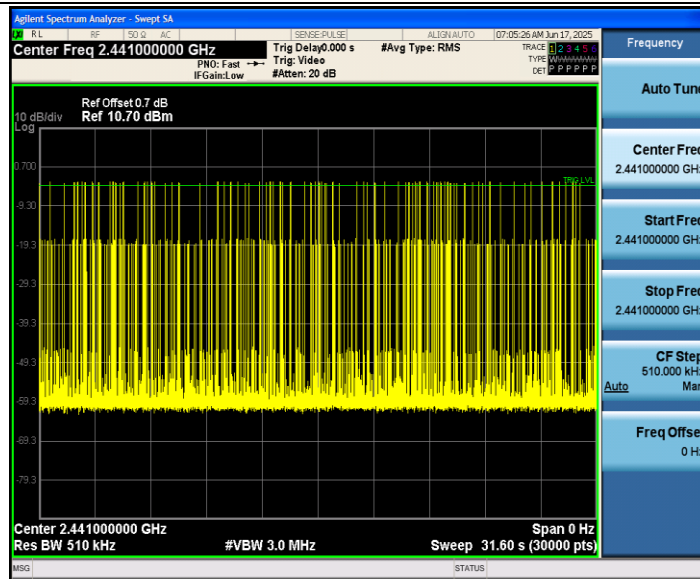


2DH3_Ant1_Hop

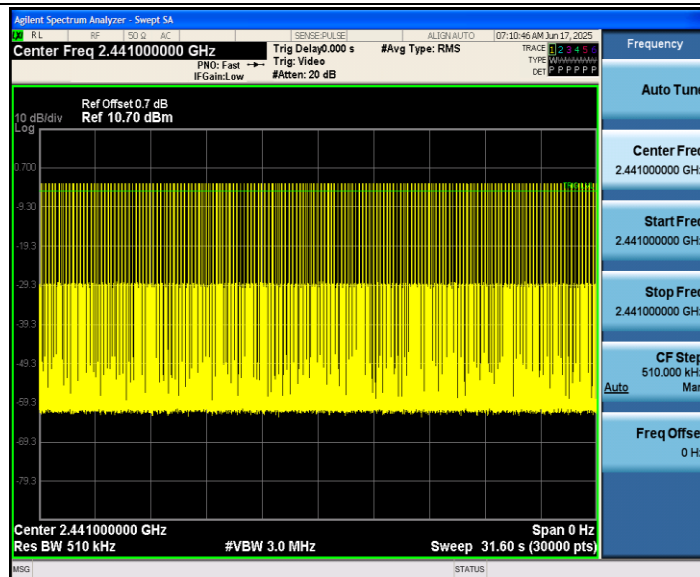
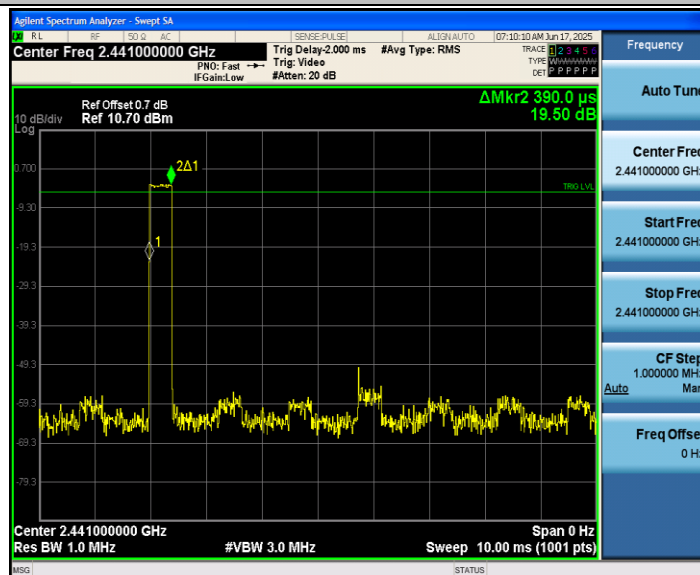


2DH5_Ant1_Hop

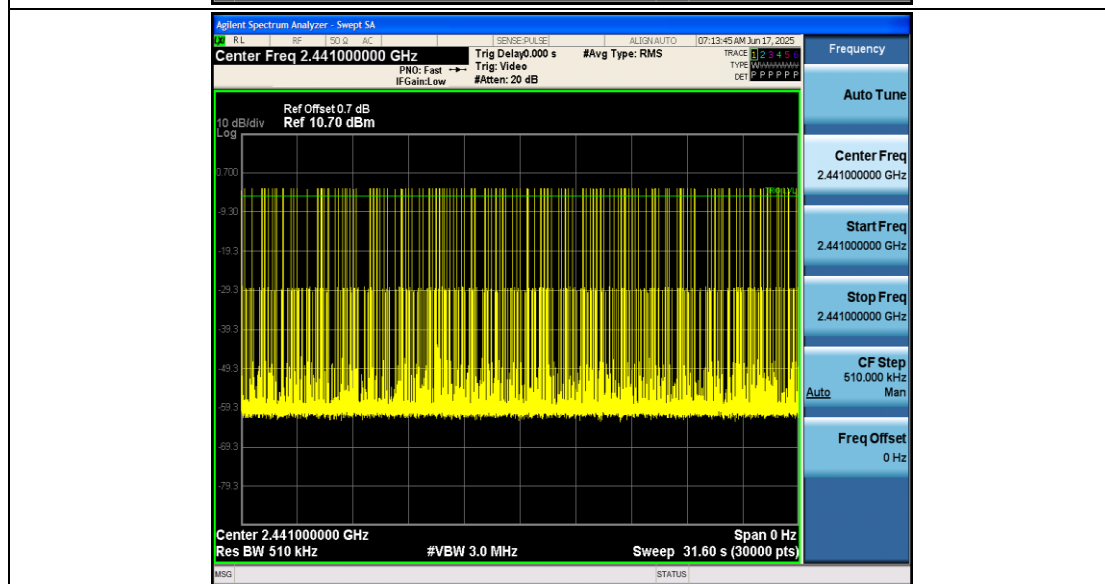




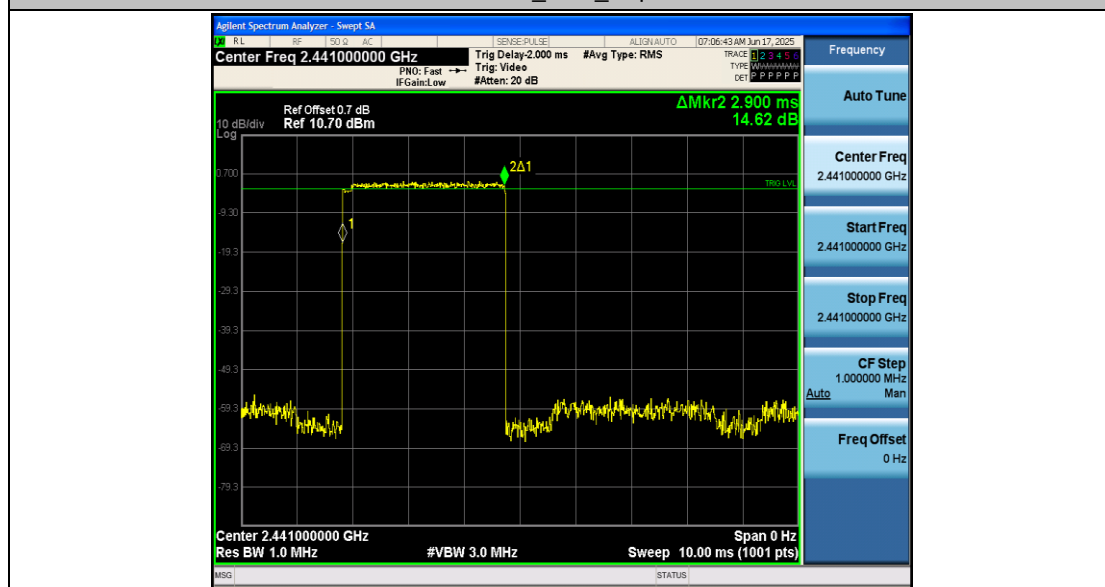
3DH1_Ant1_Hop

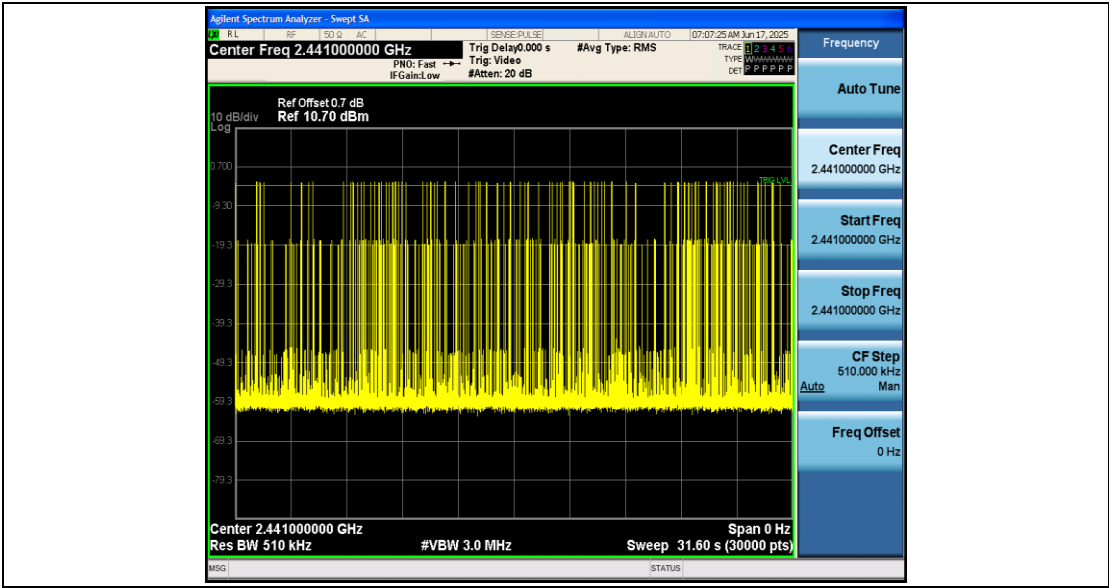


3DH3_Ant1_Hop



3DH5_Ant1_Hop



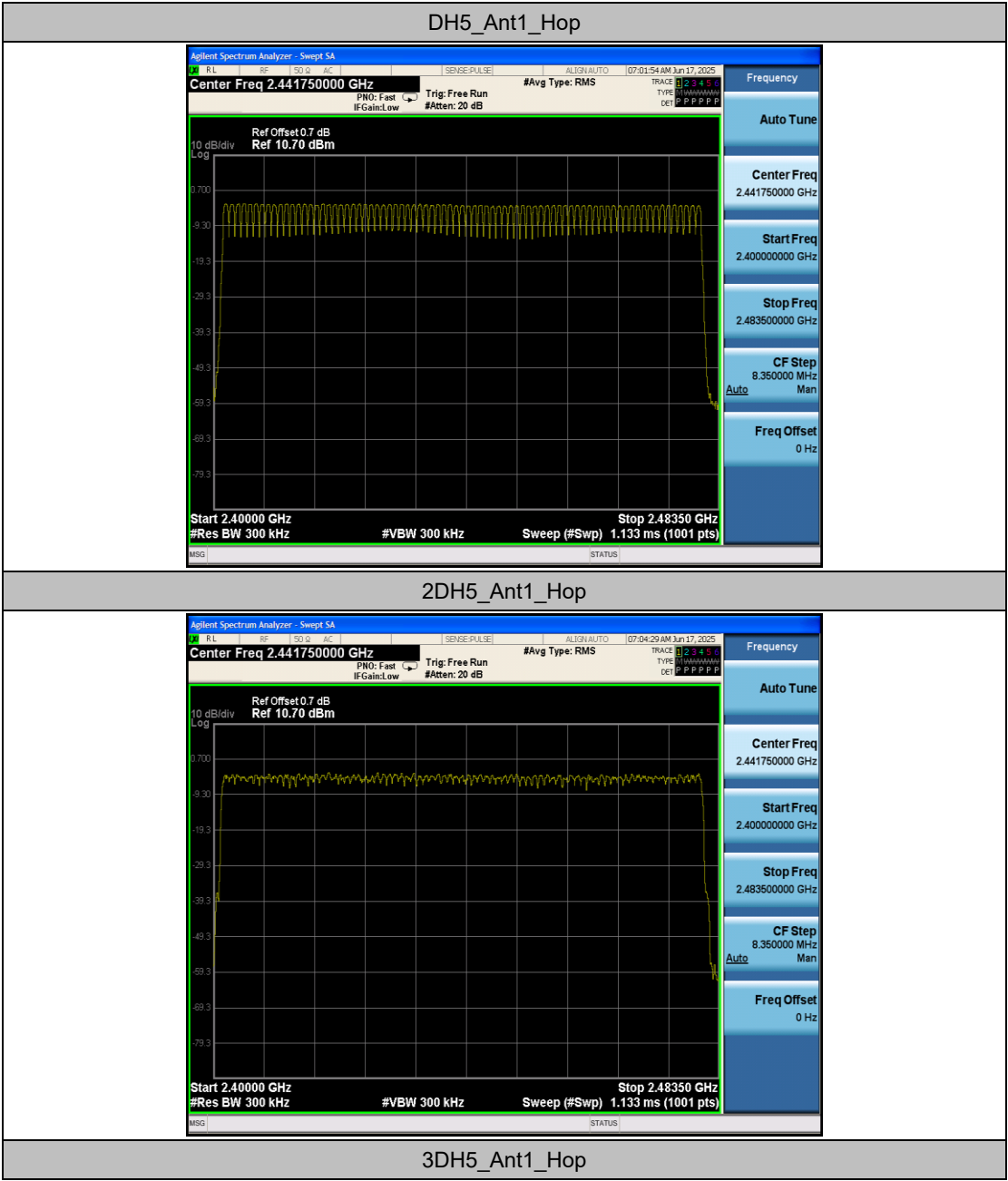


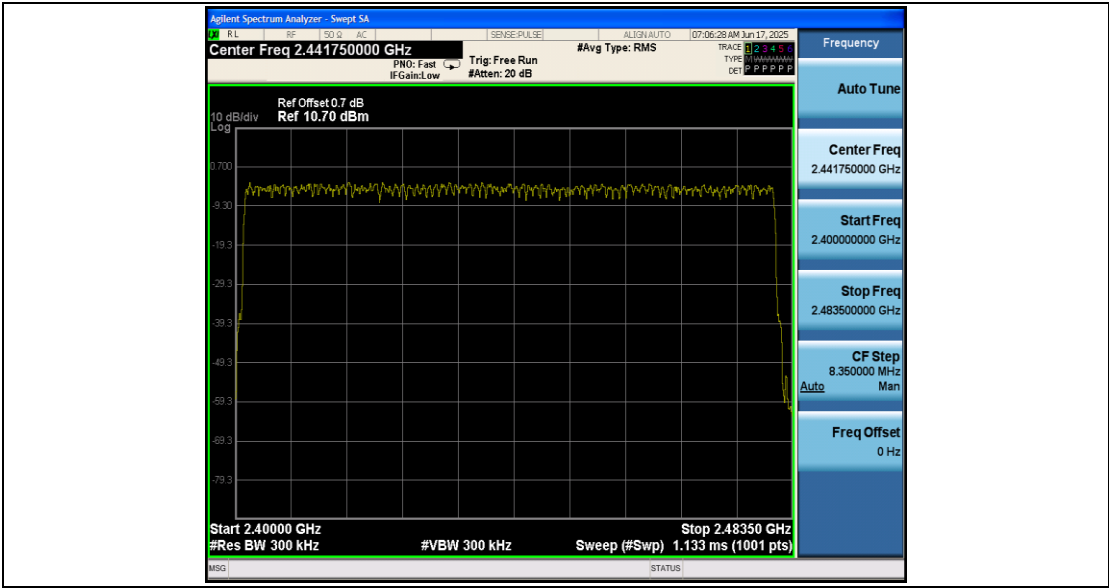
Appendix F: Number of hopping channels

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



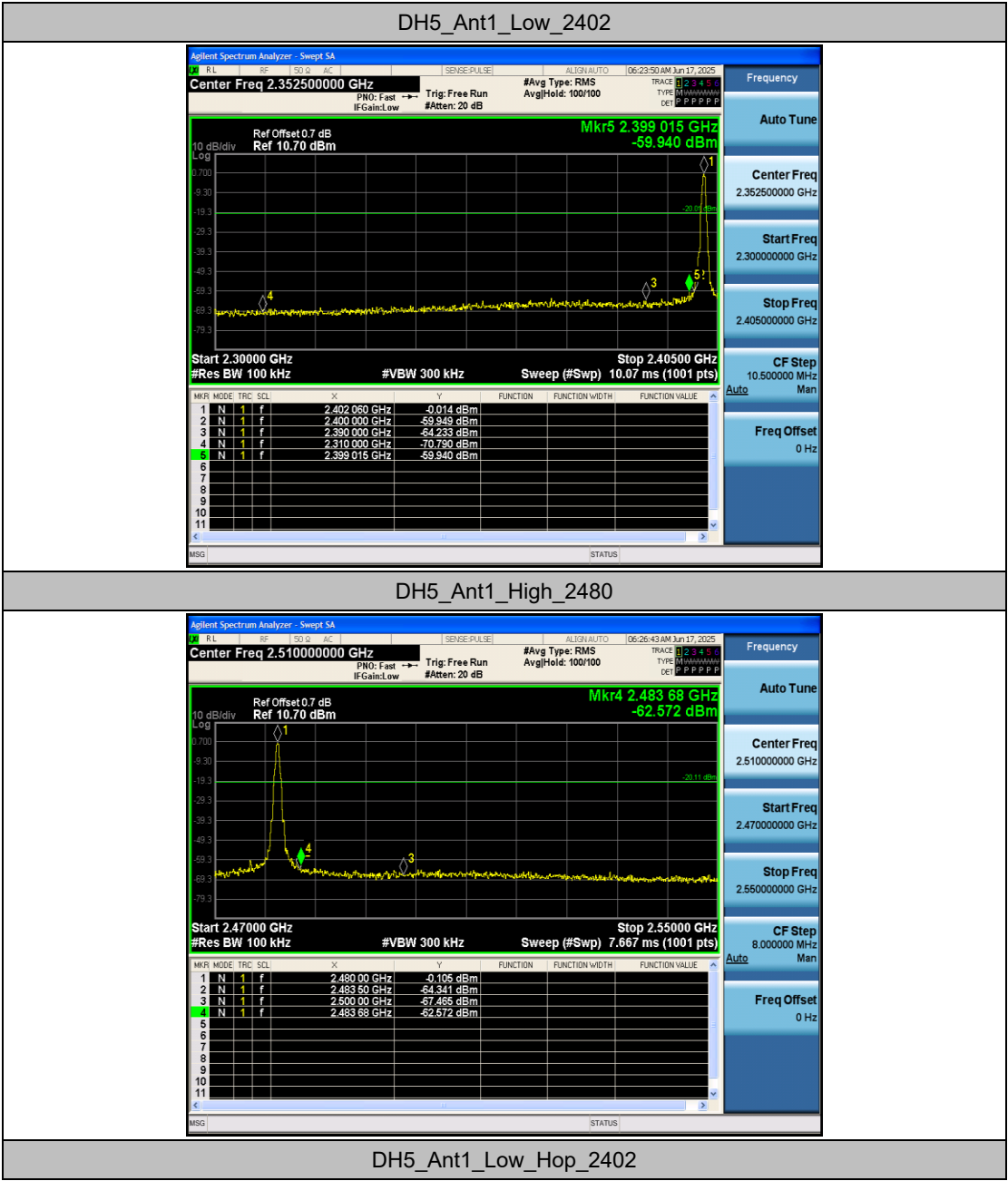


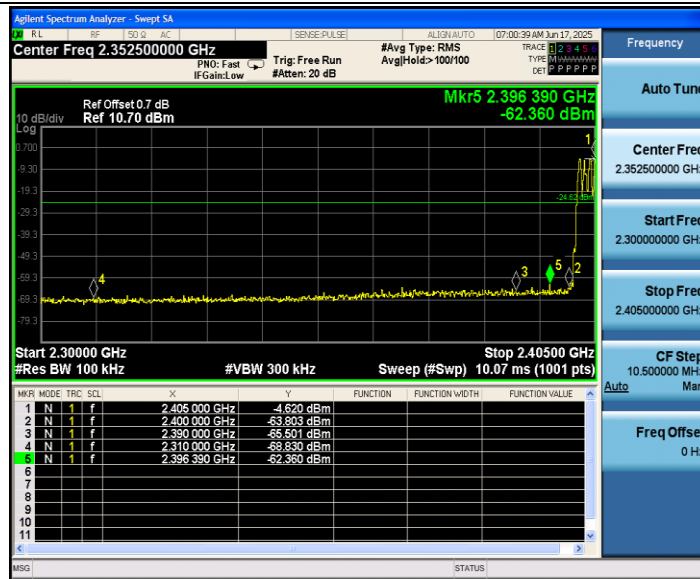
Appendix G: Band edge measurements

Test Result

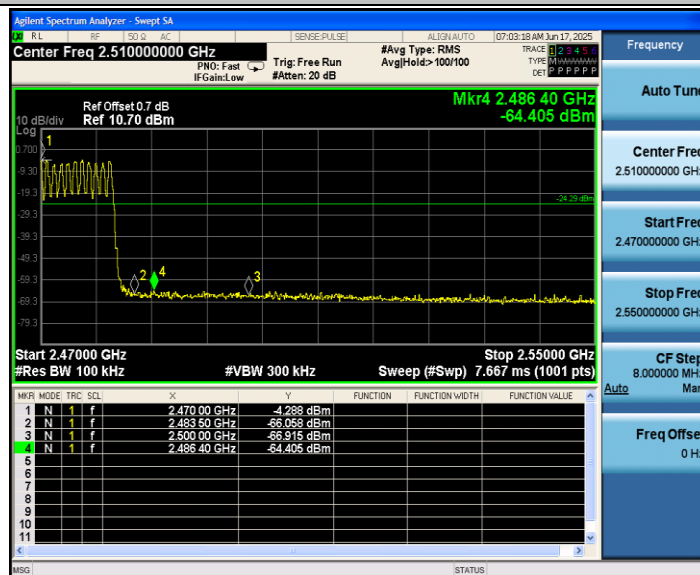
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.01	-59.94	≤-20.01	PASS
		High	2480	-0.11	-62.57	≤-20.11	PASS
		Low	Hop_2402	-4.62	-62.36	≤-24.62	PASS
		High	Hop_2480	-4.29	-64.41	≤-24.29	PASS
2DH5	Ant1	Low	2402	-3.80	-59.67	≤-23.8	PASS
		High	2480	-3.57	-64.15	≤-23.57	PASS
		Low	Hop_2402	-4.49	-59.94	≤-24.49	PASS
		High	Hop_2480	-4.56	-64.29	≤-24.56	PASS
3DH5	Ant1	Low	2402	-5.68	-59.34	≤-25.68	PASS
		High	2480	-3.69	-63.67	≤-23.69	PASS
		Low	Hop_2402	-4.39	-63.76	≤-24.39	PASS
		High	Hop_2480	-4.80	-64.32	≤-24.8	PASS

Test Graphs

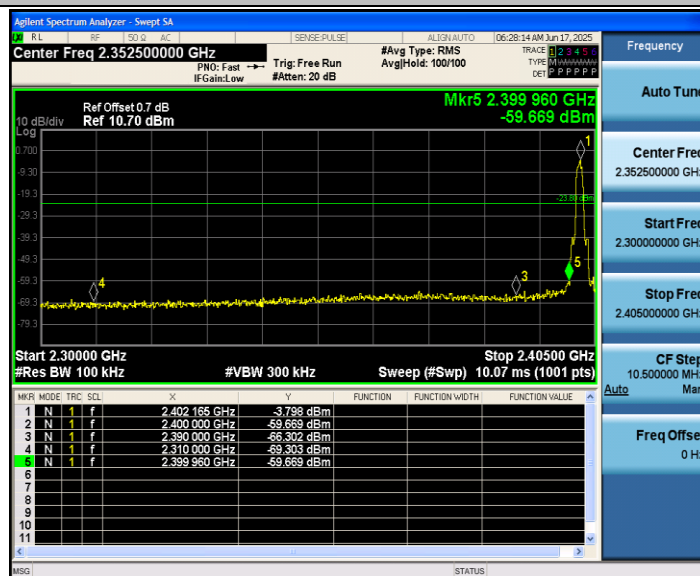




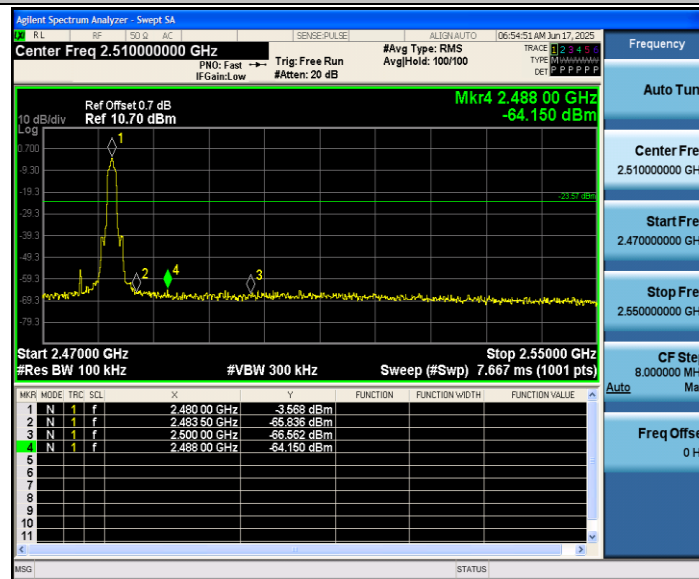
DH5_Ant1_High_Hop_2480



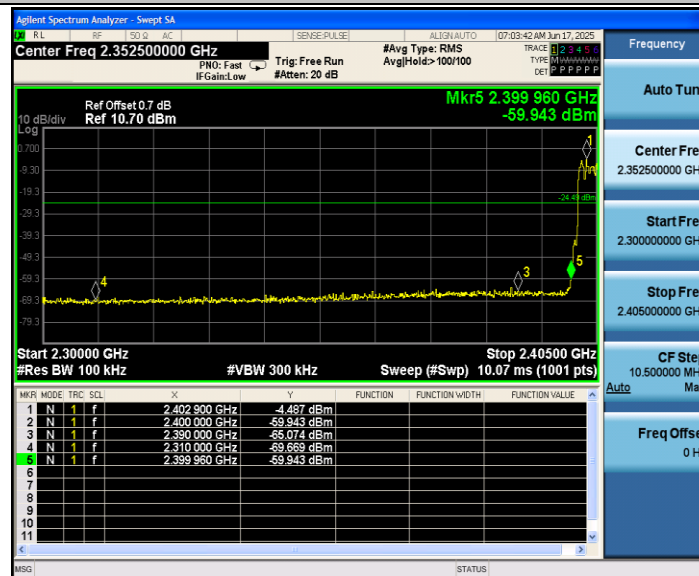
2DH5_Ant1_Low_2402



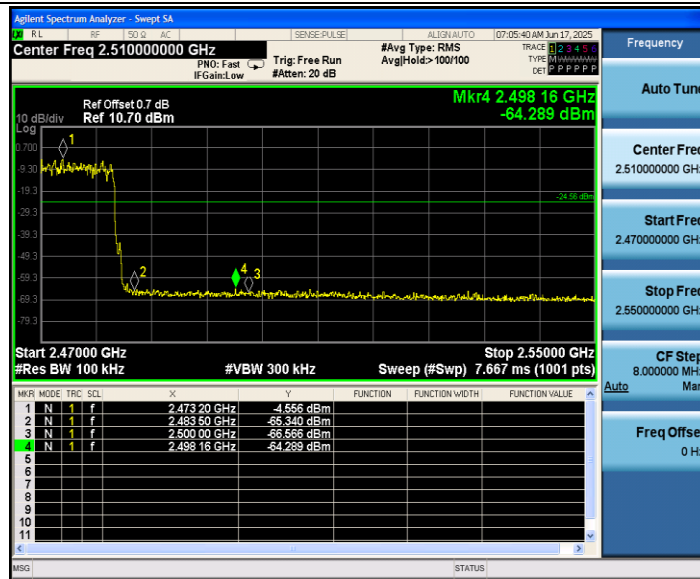
2DH5_Ant1_High_2480



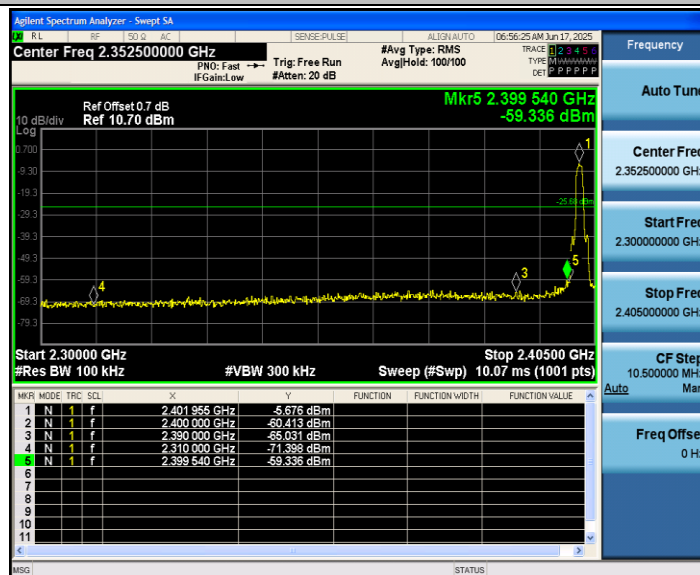
2DH5_Ant1_Low_Hop_2402



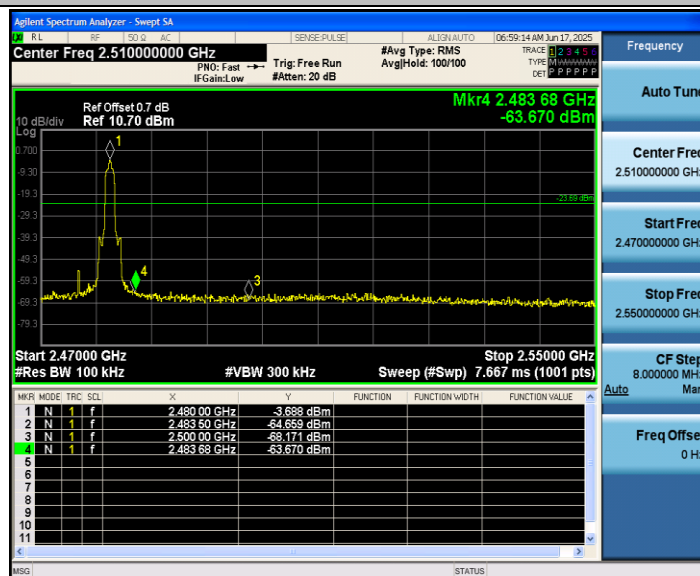
2DH5_Ant1_High_Hop_2480



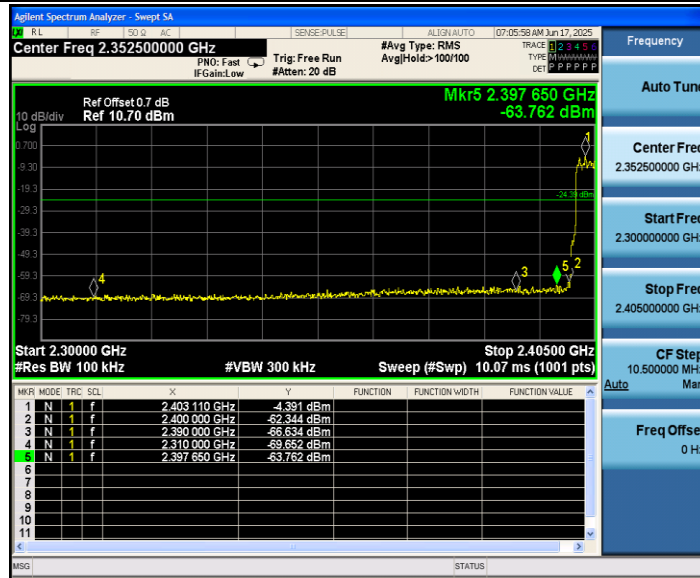
3DH5_Ant1_Low_2402



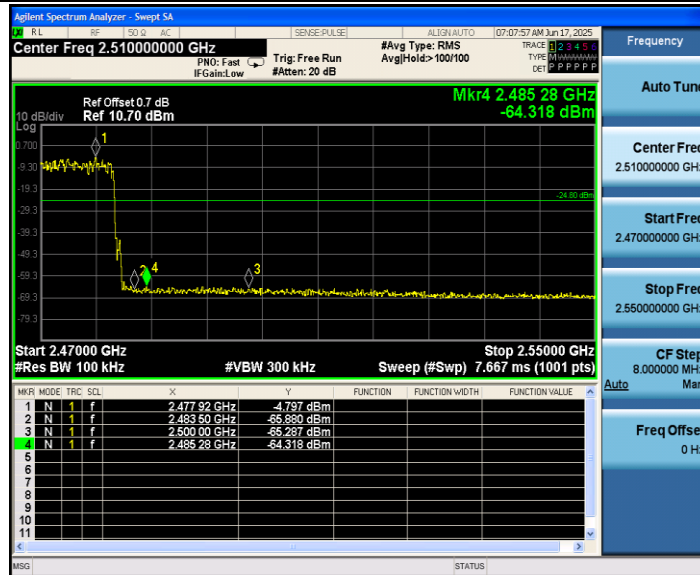
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

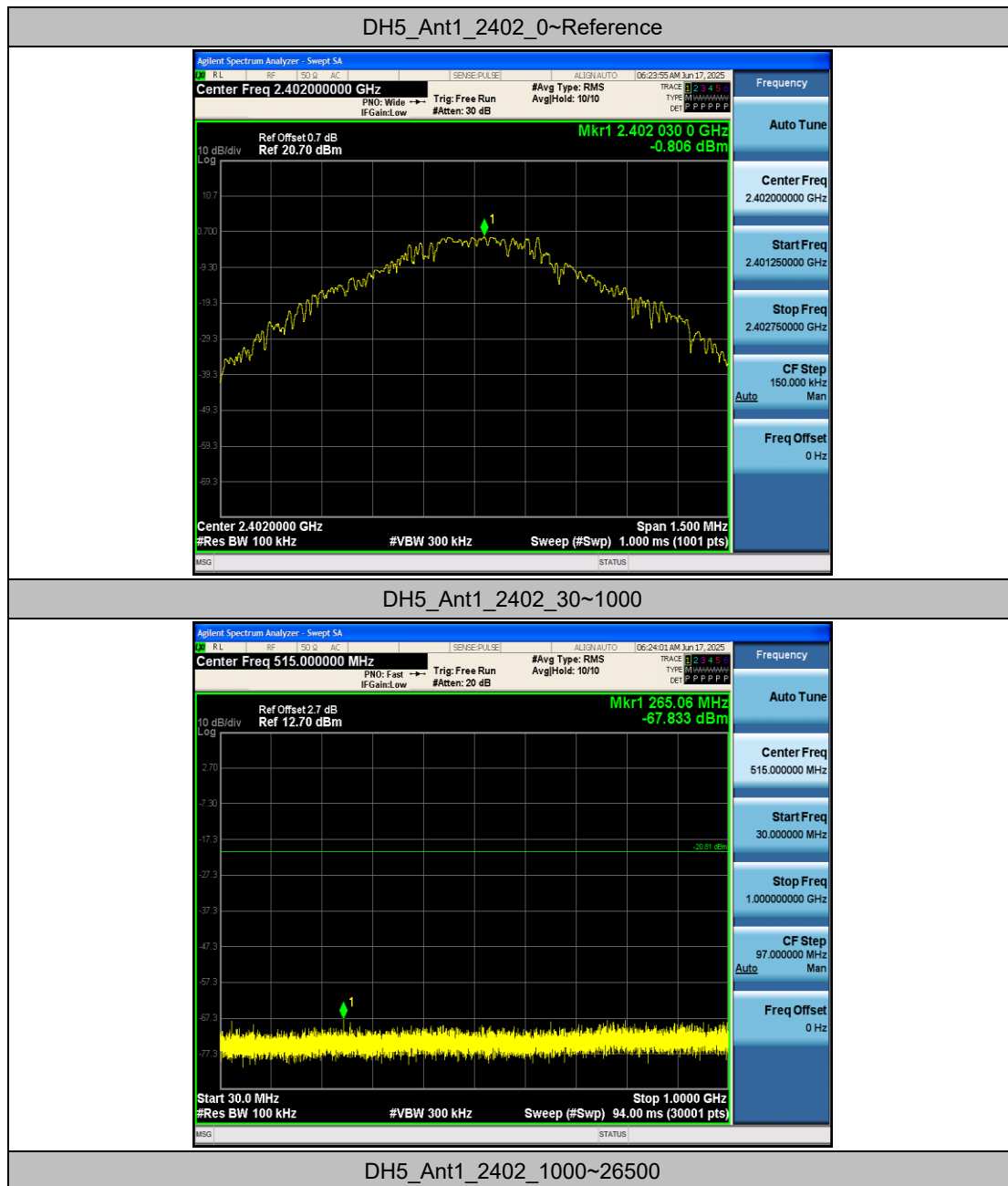


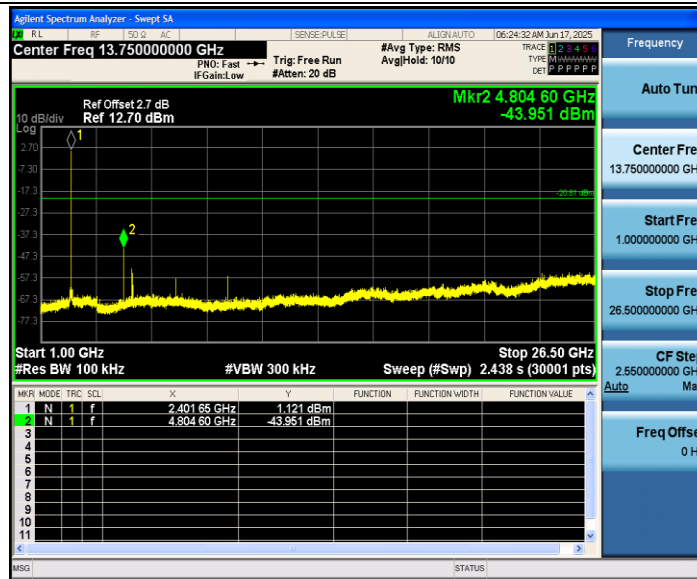
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-67.83	≤-20.81	PASS
			1000~26500	-0.81	-43.95	≤-20.81	PASS
		2441	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-67.47	≤-20.69	PASS
			1000~26500	-0.69	-42.35	≤-20.69	PASS
		2480	Reference	-0.79	-0.79	---	PASS
			30~1000	-0.79	-67.37	≤-20.79	PASS
			1000~26500	-0.79	-43.89	≤-20.79	PASS
2DH5	Ant1	2402	Reference	-5.50	-5.50	---	PASS
			30~1000	-5.50	-67.66	≤-25.5	PASS
			1000~26500	-5.50	-48.04	≤-25.5	PASS
		2441	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-68.02	≤-24.56	PASS
			1000~26500	-4.56	-49.49	≤-24.56	PASS
		2480	Reference	-5.10	-5.10	---	PASS
			30~1000	-5.10	-67.9	≤-25.1	PASS
			1000~26500	-5.10	-48.46	≤-25.1	PASS
3DH5	Ant1	2402	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-66.64	≤-24.06	PASS
			1000~26500	-4.06	-51.15	≤-24.06	PASS
		2441	Reference	-7.00	-7.00	---	PASS
			30~1000	-7.00	-66.98	≤-27	PASS
			1000~26500	-7.00	-47.16	≤-27	PASS
		2480	Reference	-5.30	-5.30	---	PASS
			30~1000	-5.30	-66.21	≤-25.3	PASS
			1000~26500	-5.30	-47.08	≤-25.3	PASS

Test Graphs

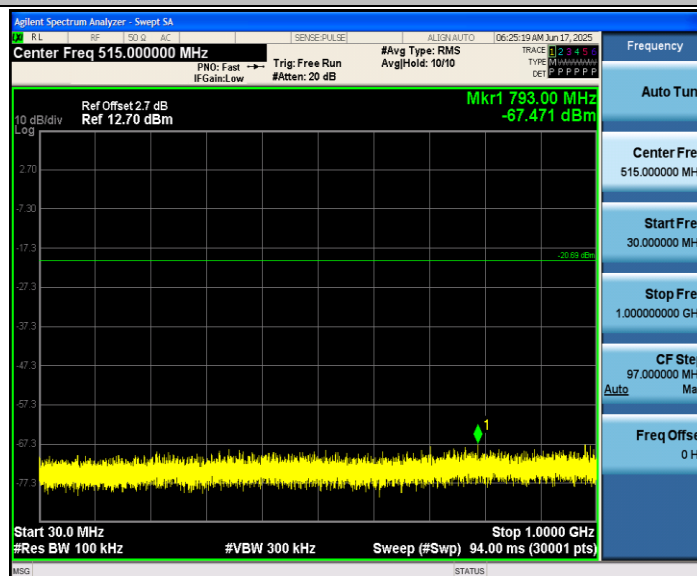




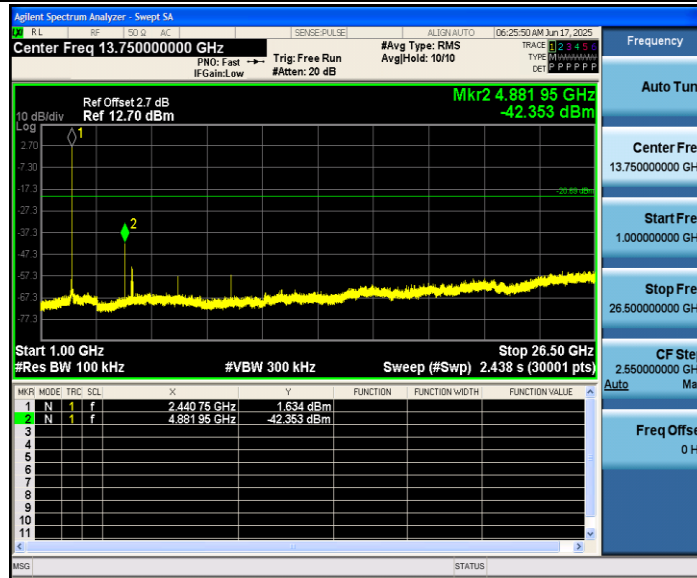
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000