

FCC Appendix RF Test Data

FCC ID : 2BECA-EP-0138

Company: : Guangdong Jingge New Energy Technology Co.,Ltd

EUT : Solar System

Model Number : EP-0138

Report No. : CTA25050601101

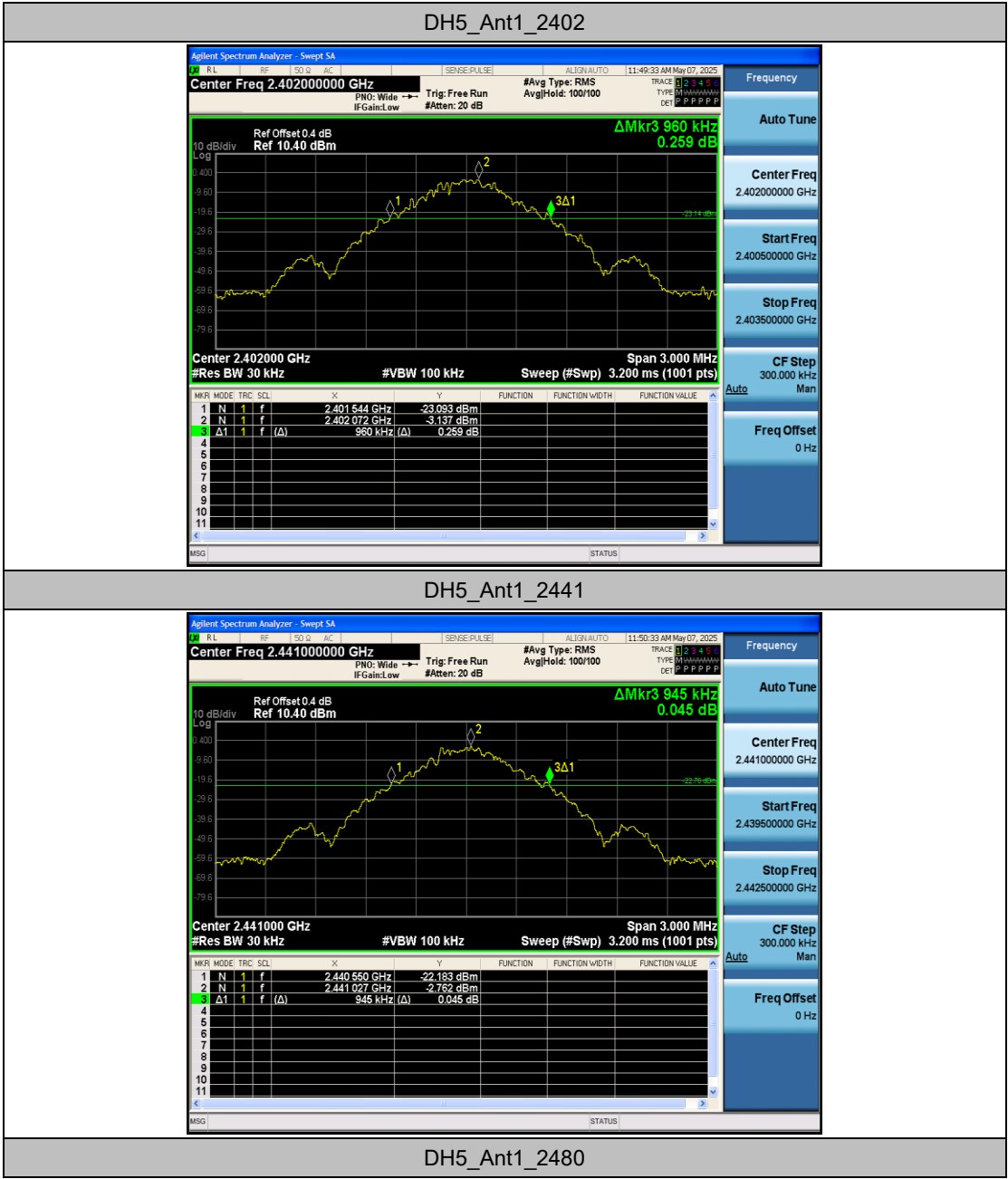
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.544	2402.504	---	---
		2441	0.945	2440.550	2441.495	---	---
		2480	0.933	2479.550	2480.483	---	---
2DH5	Ant1	2402	1.275	2401.382	2402.657	---	---
		2441	1.329	2440.352	2441.681	---	---
		2480	1.311	2479.358	2480.669	---	---
3DH5	Ant1	2402	1.296	2401.364	2402.660	---	---
		2441	1.308	2440.358	2441.666	---	---
		2480	1.296	2479.364	2480.660	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441





3DH5_Ant1_2480

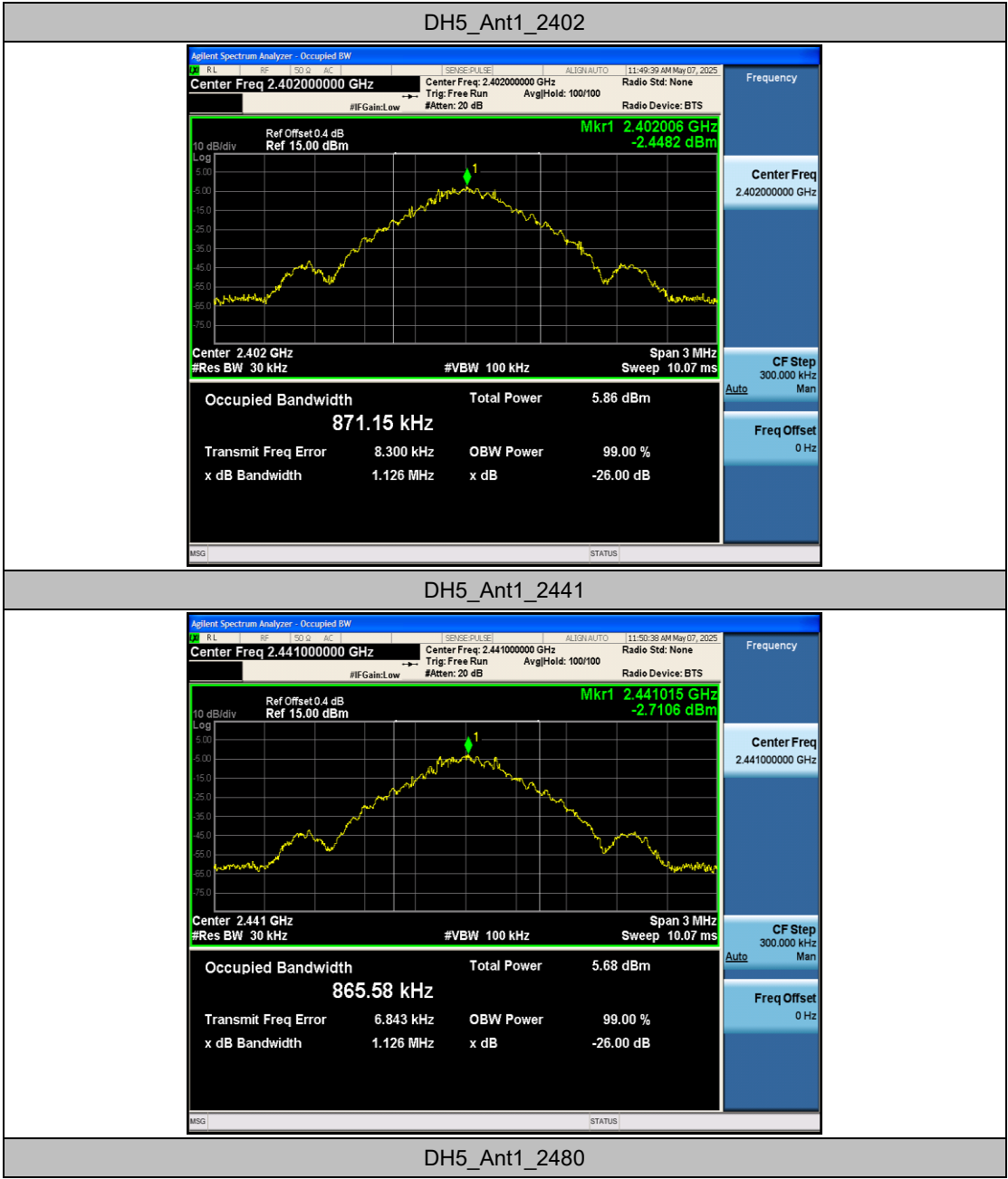


Appendix B: Occupied Channel Bandwidth

Test Result

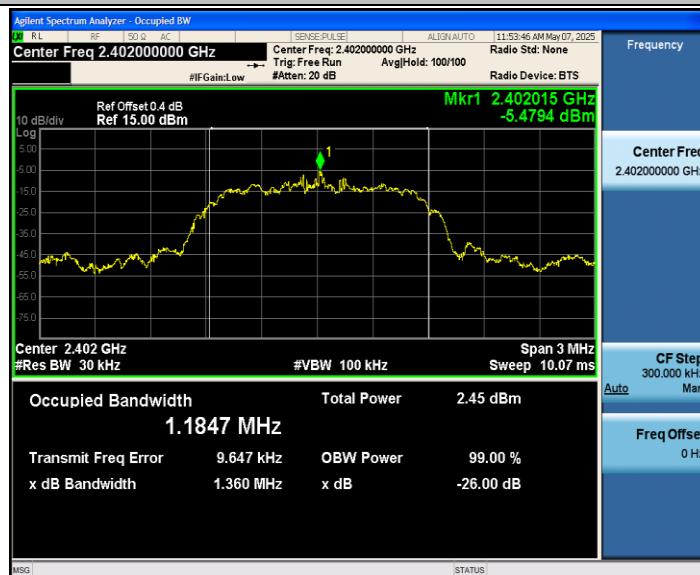
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87115	2401.5727	2402.4439	---	---
		2441	0.86558	2440.5741	2441.4396	---	---
		2480	0.86652	2479.5763	2480.4428	---	---
2DH5	Ant1	2402	1.1847	2401.4173	2402.6020	---	---
		2441	1.1911	2440.4147	2441.6058	---	---
		2480	1.1830	2479.4184	2480.6014	---	---
3DH5	Ant1	2402	1.1857	2401.4188	2402.6045	---	---
		2441	1.1875	2440.4168	2441.6043	---	---
		2480	1.1824	2479.4195	2480.6019	---	---

Test Graphs

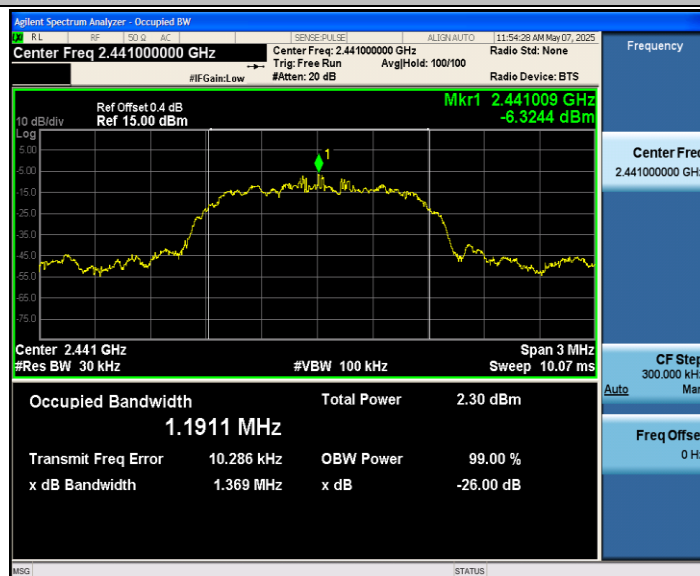




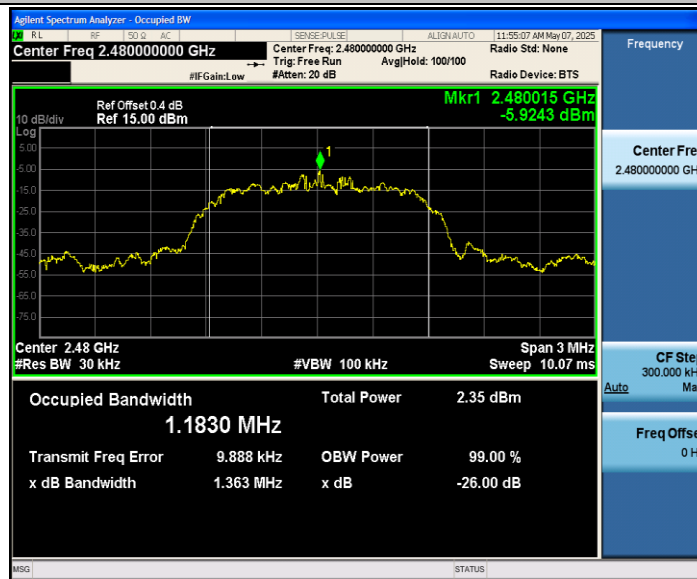
2DH5_Ant1_2402



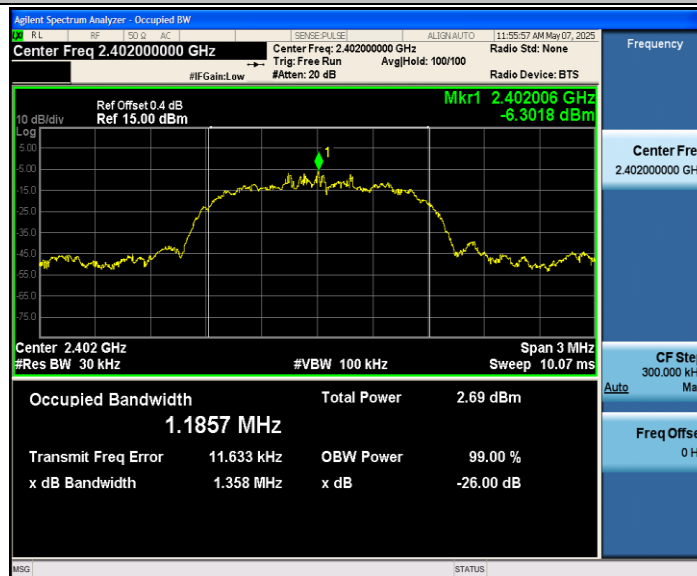
2DH5_Ant1_2441



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	-0.06	≤20.97	PASS
		2441	-0.31	≤20.97	PASS
		2480	-0.41	≤20.97	PASS
2DH5	Ant1	2402	-0.91	≤20.97	PASS
		2441	-1.13	≤20.97	PASS
		2480	-1.24	≤20.97	PASS
3DH5	Ant1	2402	-0.49	≤20.97	PASS
		2441	-0.73	≤20.97	PASS
		2480	-0.82	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥ 0.960	PASS
2DH5	Ant1	Hop	1.216	≥ 0.886	PASS
3DH5	Ant1	Hop	1.004	≥ 0.872	PASS

Test Graphs



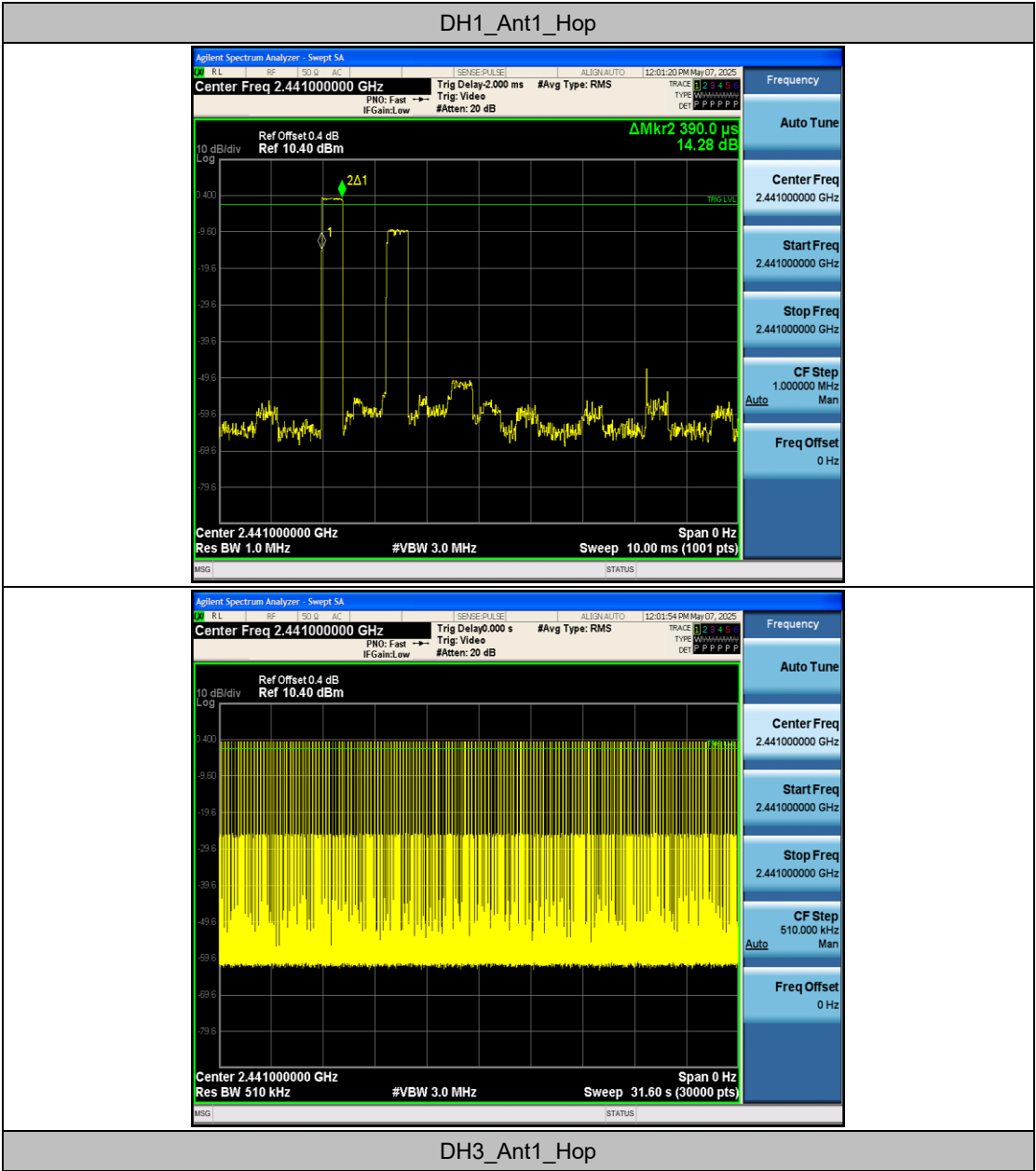


Appendix E: Time of occupancy

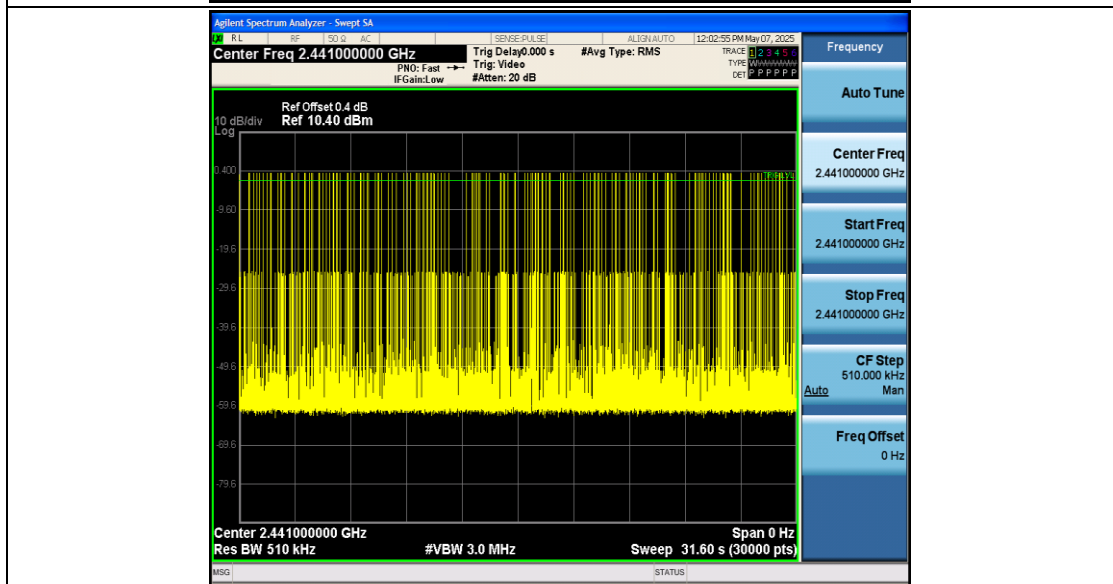
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	158	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.890	104	0.301	≤0.4	PASS
2DH1	Ant1	Hop	0.400	319	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.650	152	0.251	≤0.4	PASS
2DH5	Ant1	Hop	2.900	115	0.334	≤0.4	PASS
3DH1	Ant1	Hop	0.400	317	0.127	≤0.4	PASS
3DH3	Ant1	Hop	1.650	159	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.900	102	0.296	≤0.4	PASS

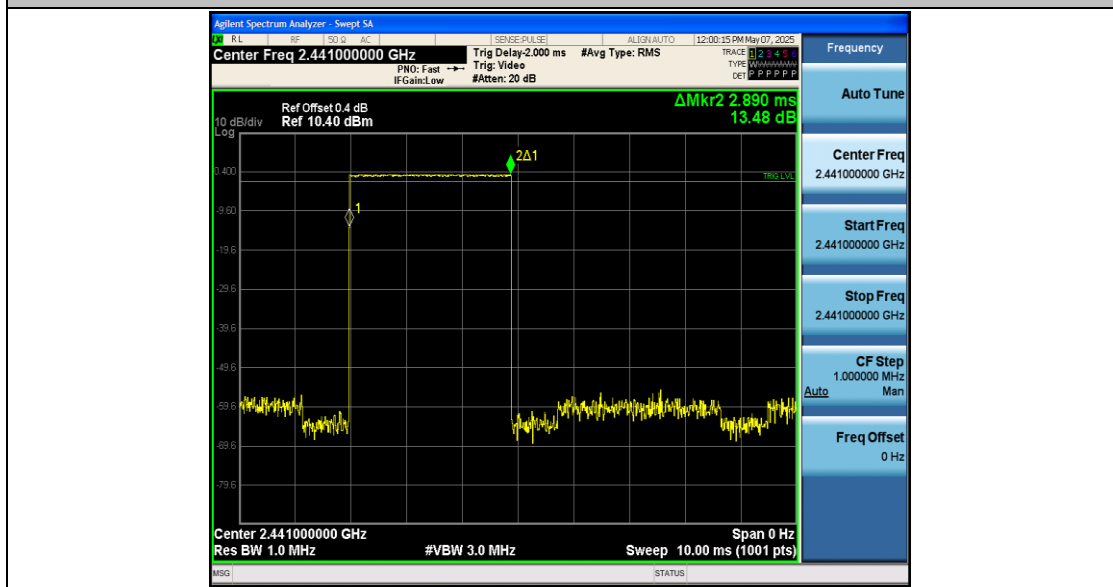
Test Graphs

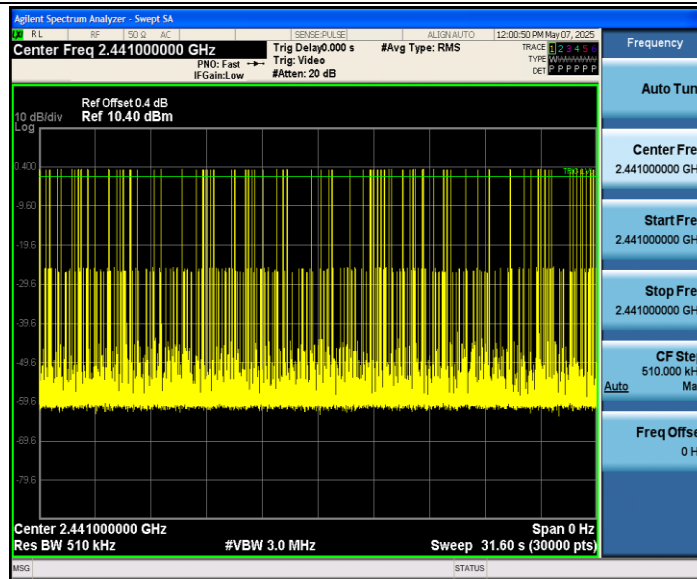


DH3_Ant1_Hop

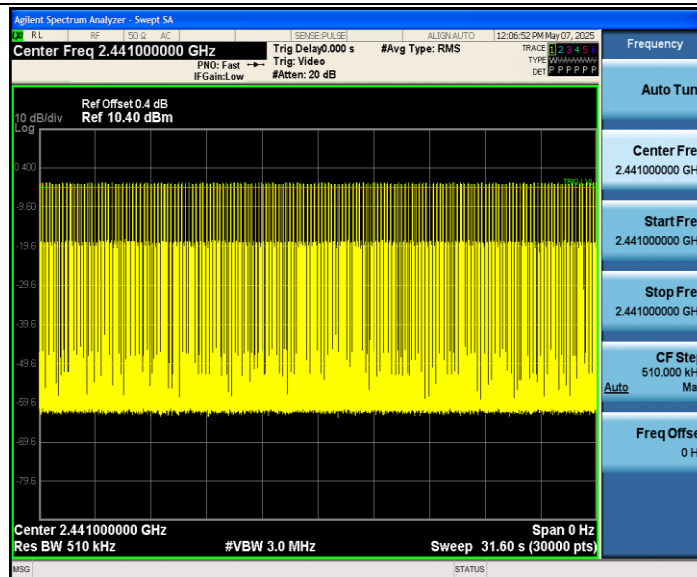
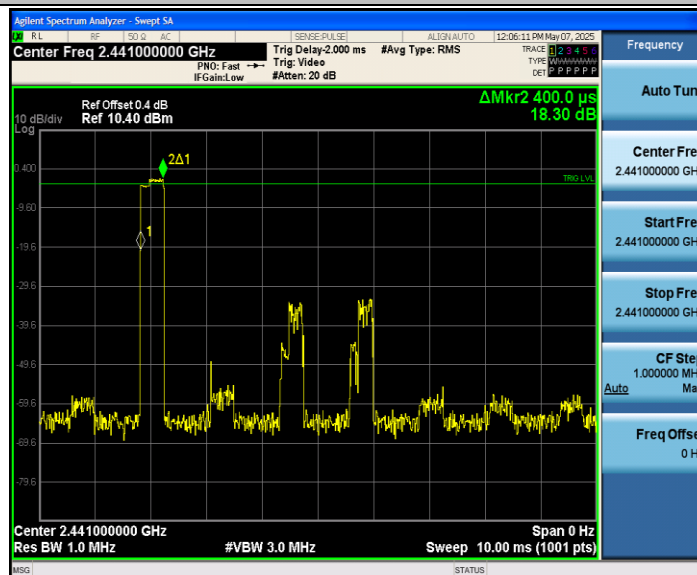


DH5_Ant1_Hop

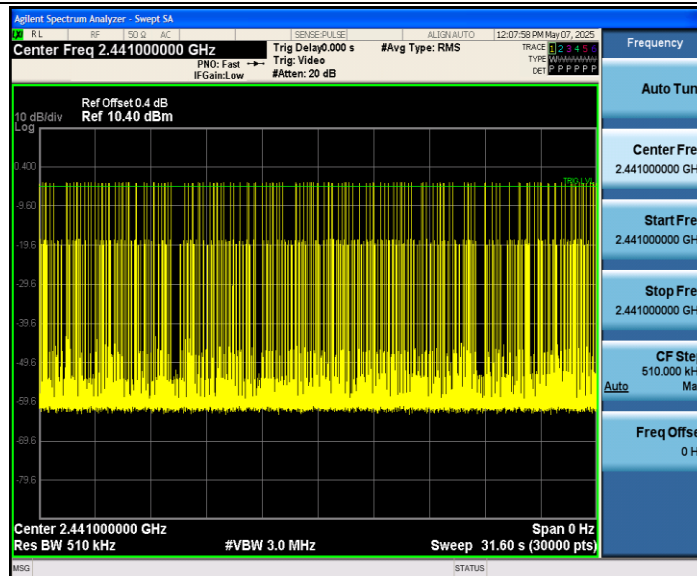
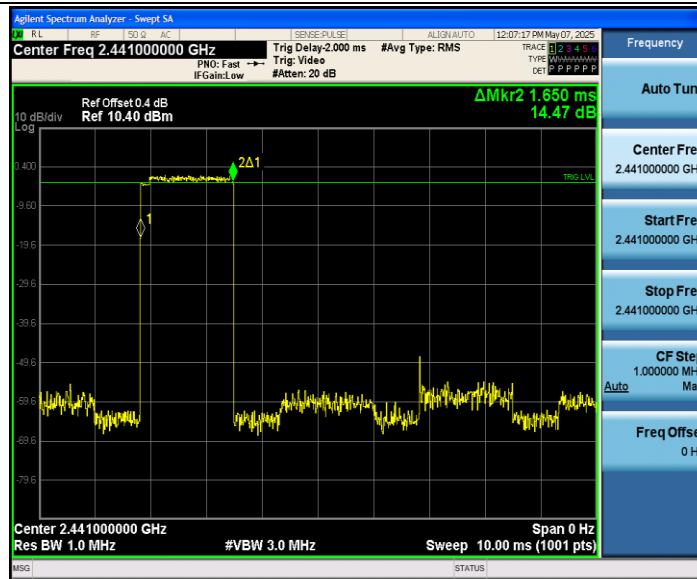




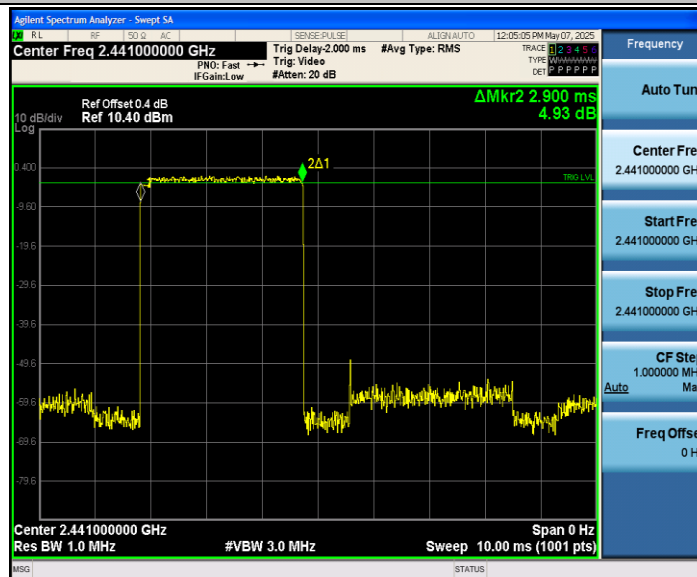
2DH1_Ant1_Hop

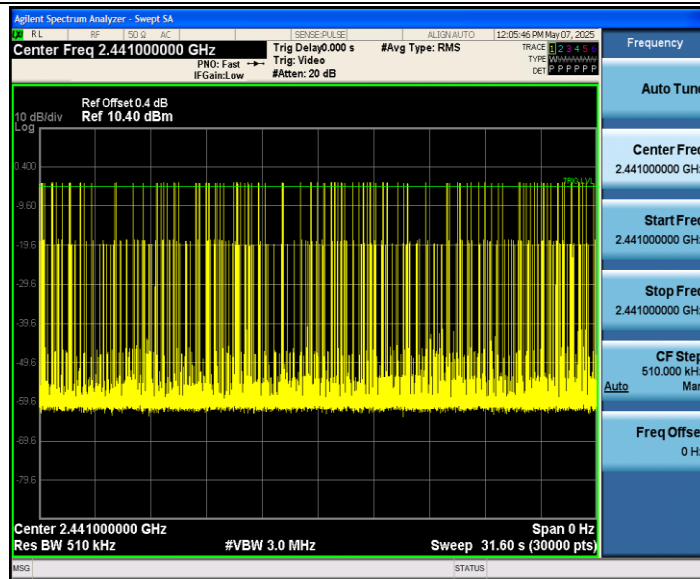


2DH3_Ant1_Hop

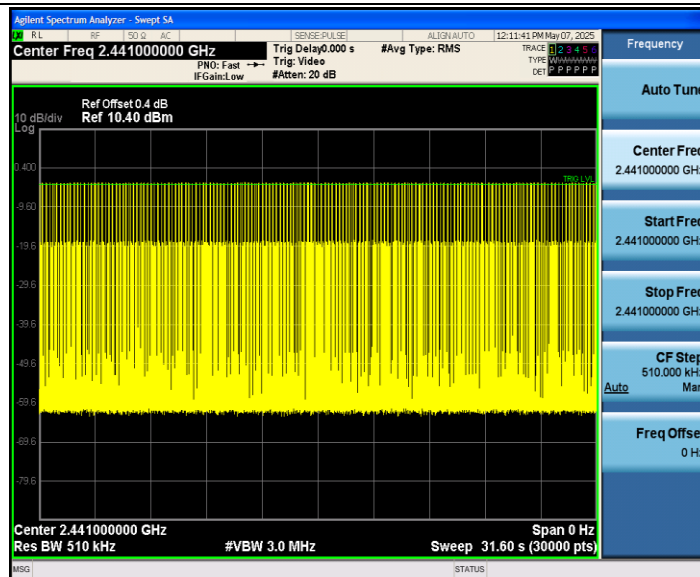
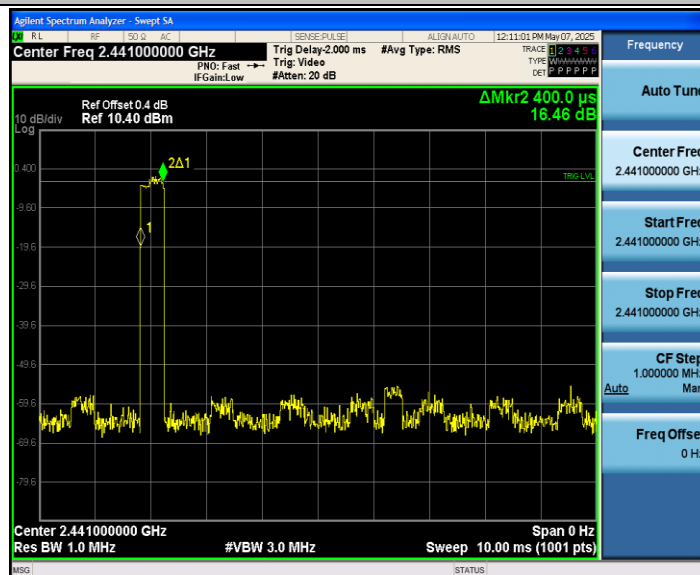


2DH5_Ant1_Hop

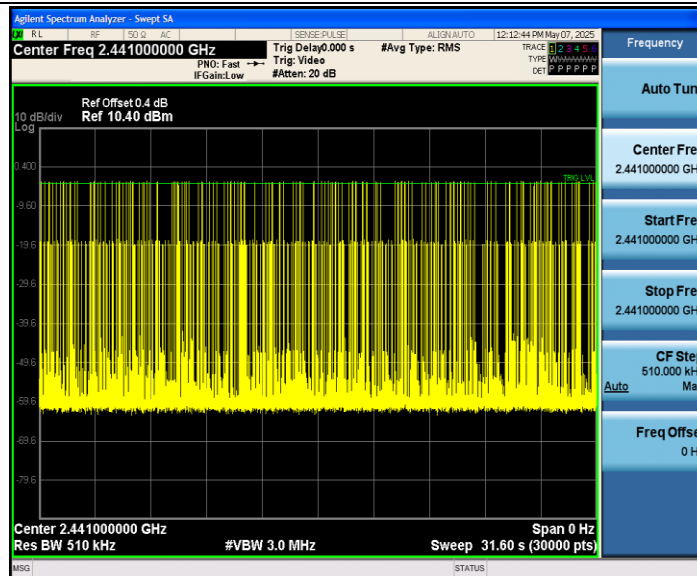
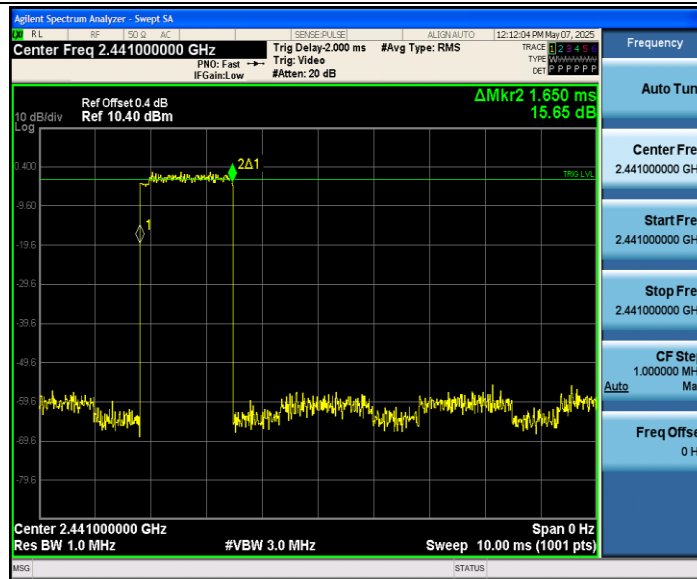




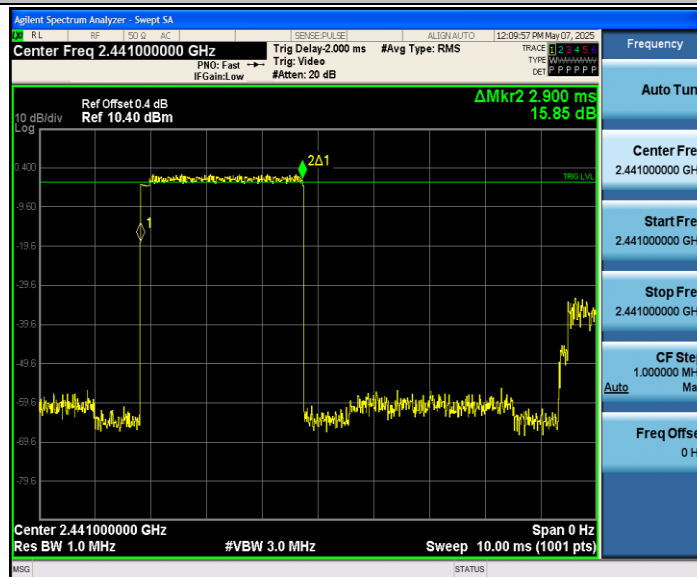
3DH1_Ant1_Hop

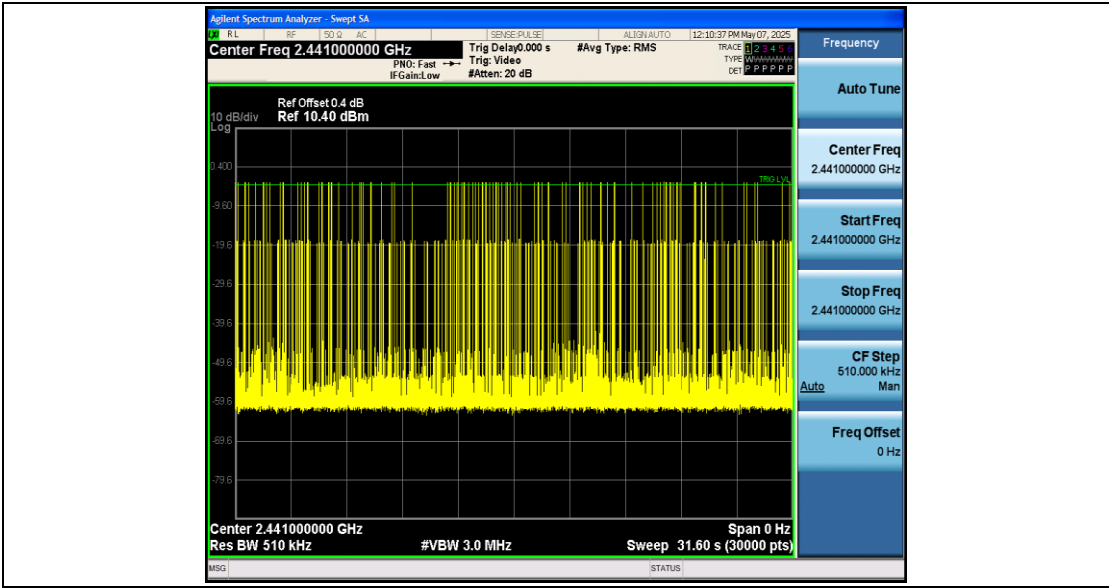


3DH3_Ant1_Hop



3DH5_Ant1_Hop



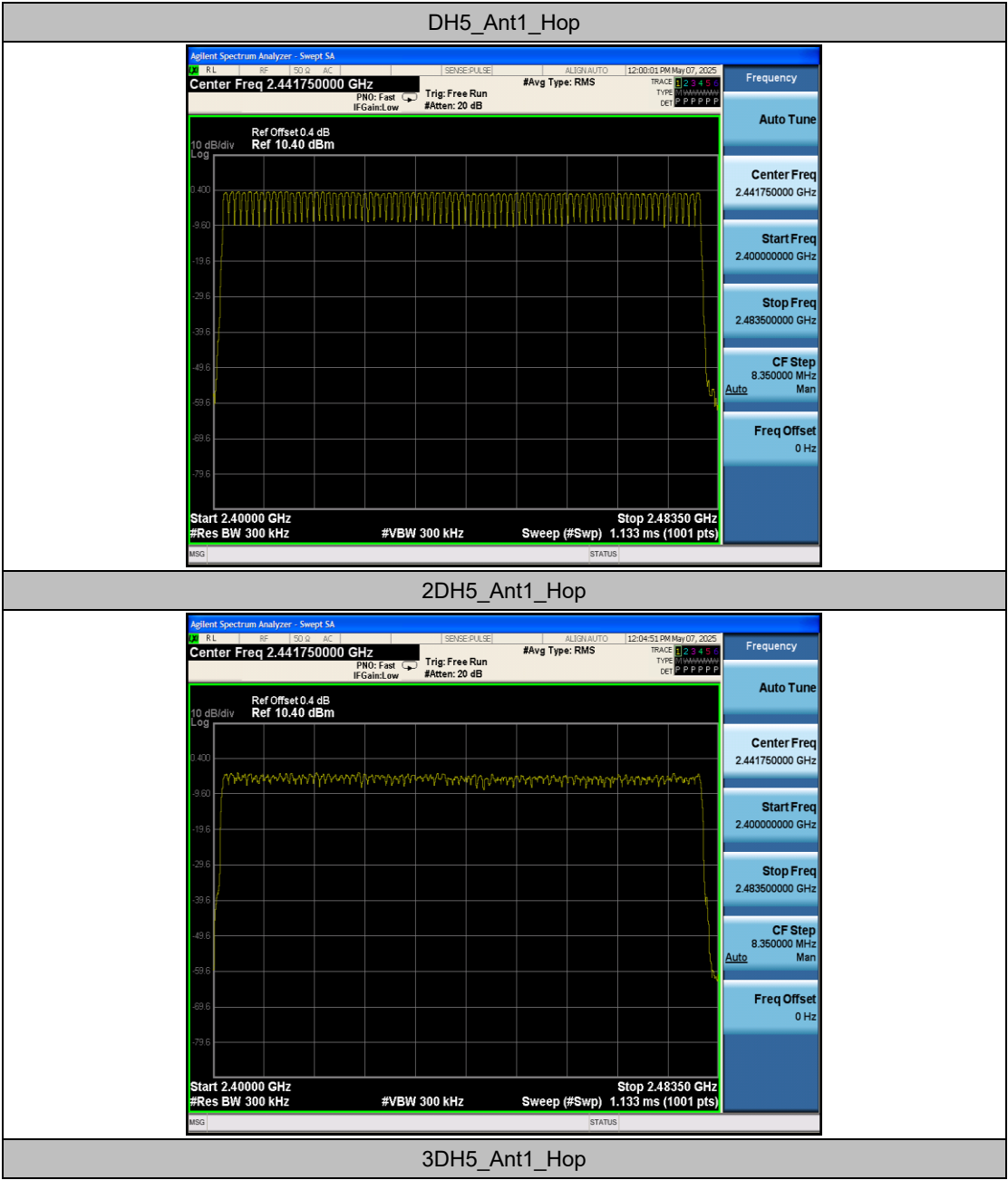


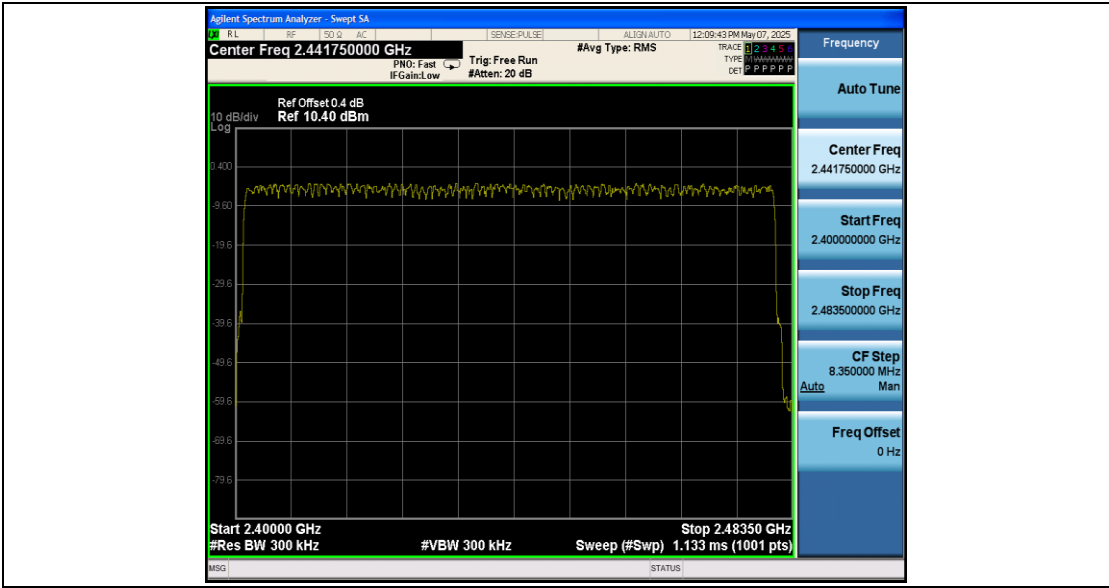
Appendix F: Number of hopping channels

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



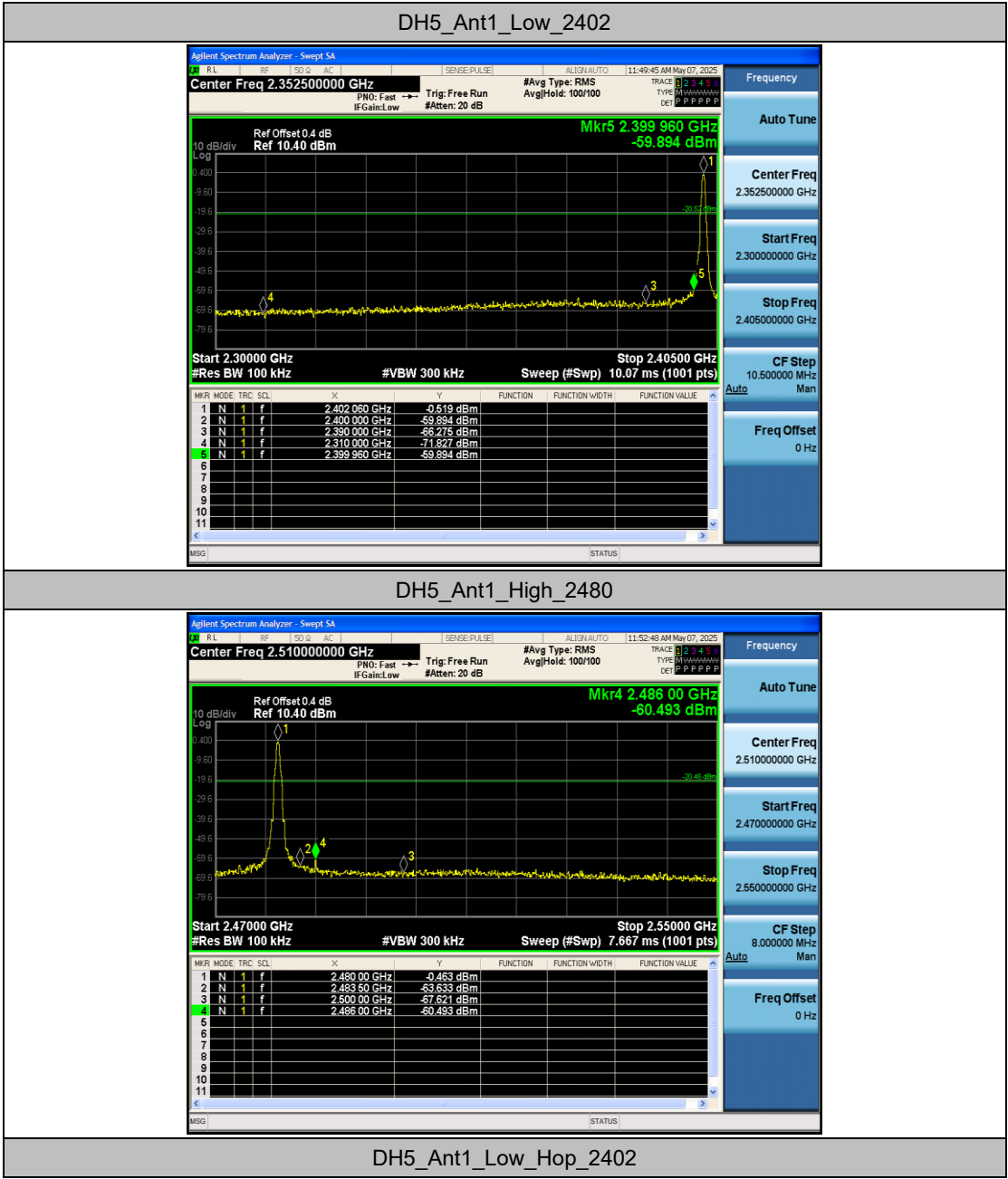


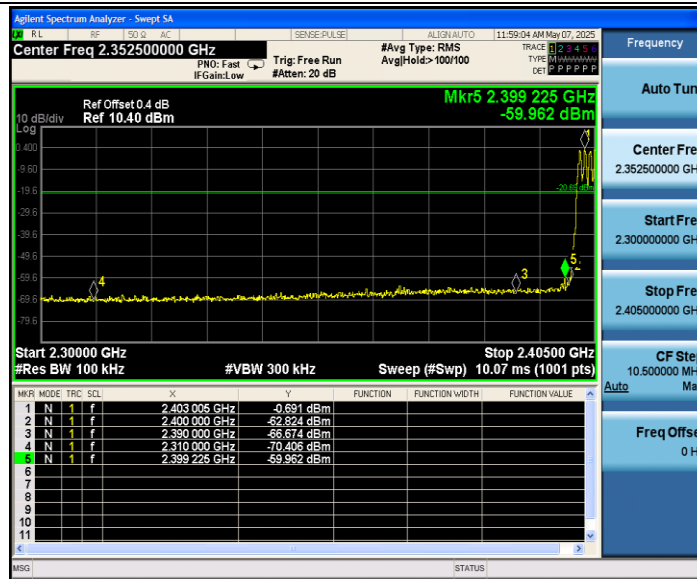
Appendix G: Band edge measurements

Test Result

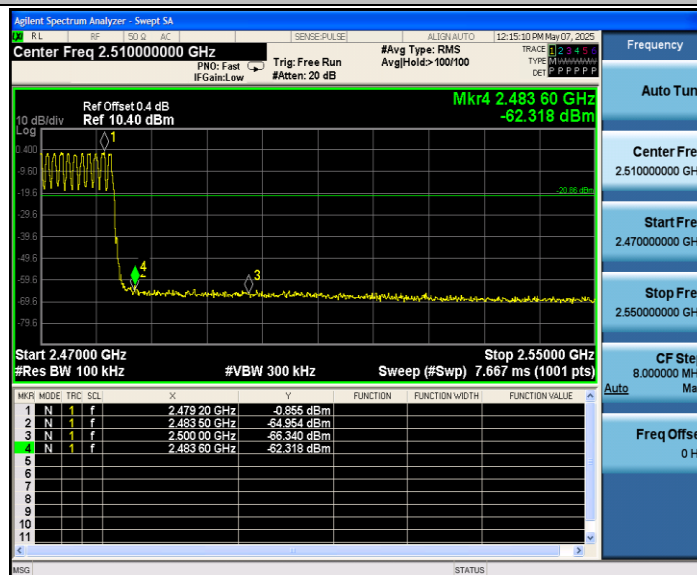
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.52	-59.89	≤-20.52	PASS
		High	2480	-0.46	-60.49	≤-20.46	PASS
		Low	Hop_2402	-0.69	-59.96	≤-20.69	PASS
		High	Hop_2480	-0.86	-62.32	≤-20.86	PASS
2DH5	Ant1	Low	2402	-4.20	-56.67	≤-24.2	PASS
		High	2480	-3.98	-58.06	≤-23.98	PASS
		Low	Hop_2402	-6.72	-62.22	≤-26.72	PASS
		High	Hop_2480	-4.01	-63.72	≤-24.01	PASS
3DH5	Ant1	Low	2402	-4.19	-60.4	≤-24.19	PASS
		High	2480	-4.56	-59.87	≤-24.56	PASS
		Low	Hop_2402	-5.82	-63.31	≤-25.82	PASS
		High	Hop_2480	-5.19	-62.47	≤-25.19	PASS

Test Graphs

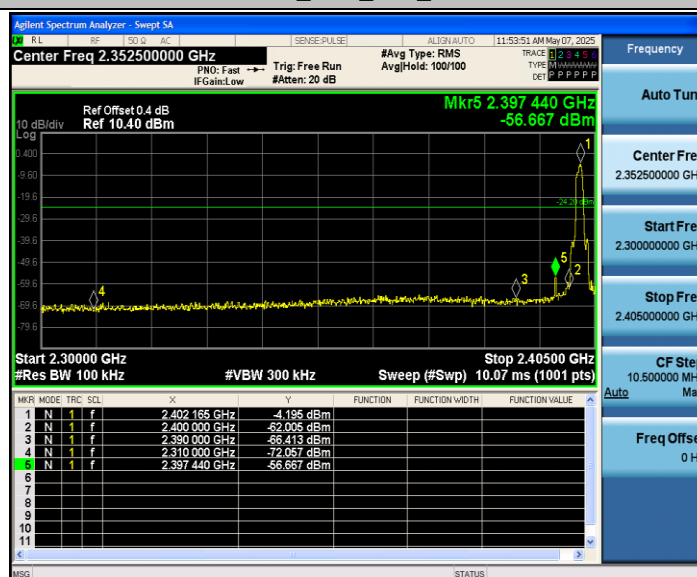




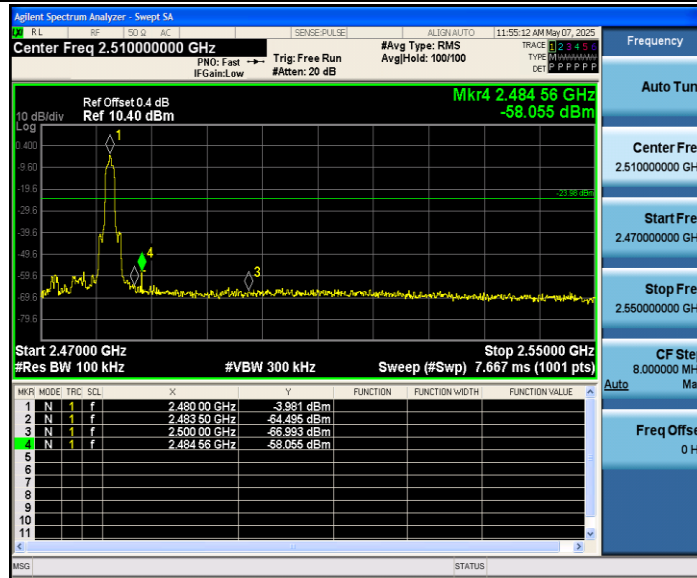
DH5_Ant1_High_Hop_2480



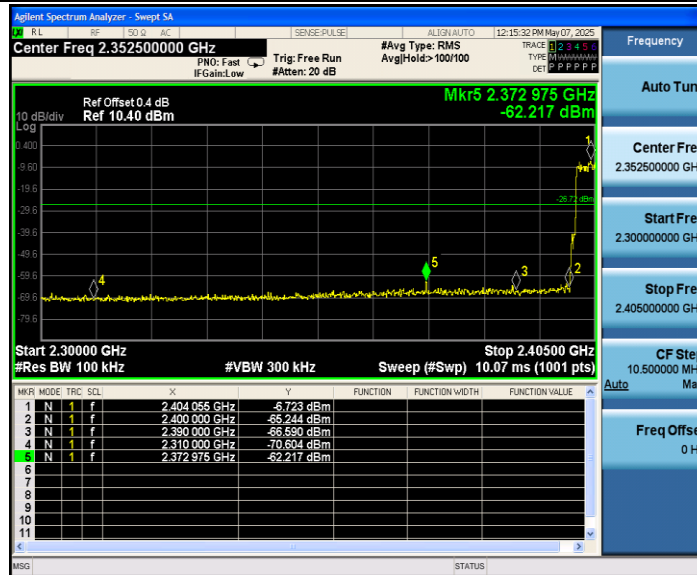
2DH5_Ant1_Low_2402



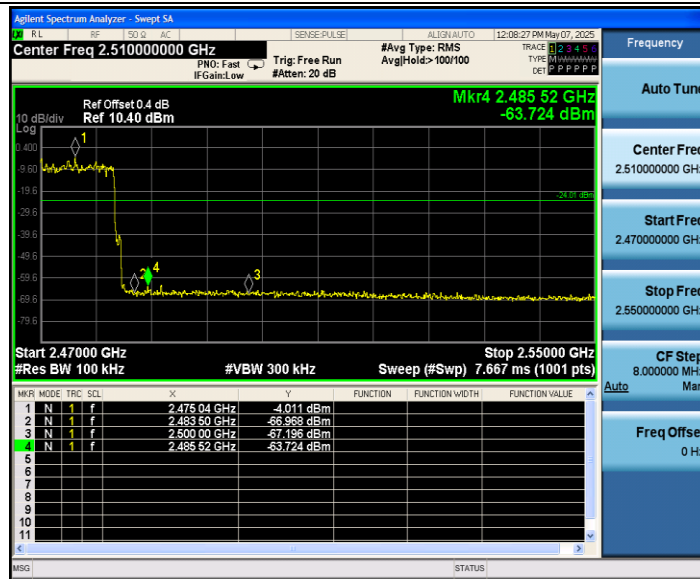
2DH5_Ant1_High_2480



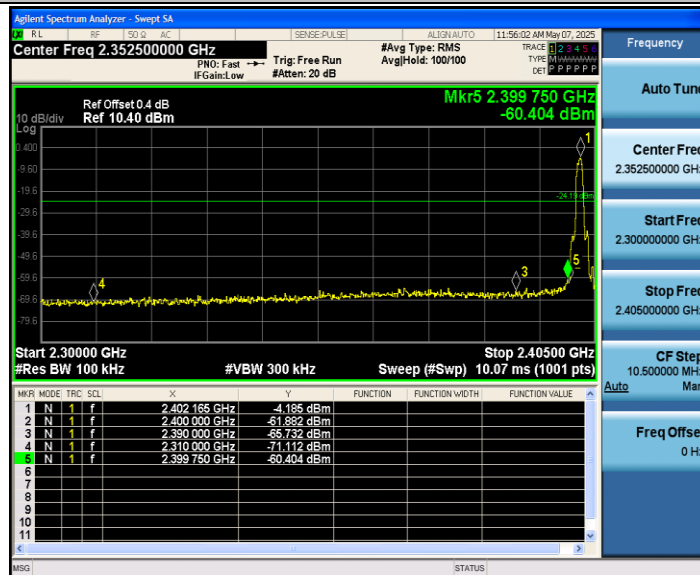
2DH5_Ant1_Low_Hop_2402



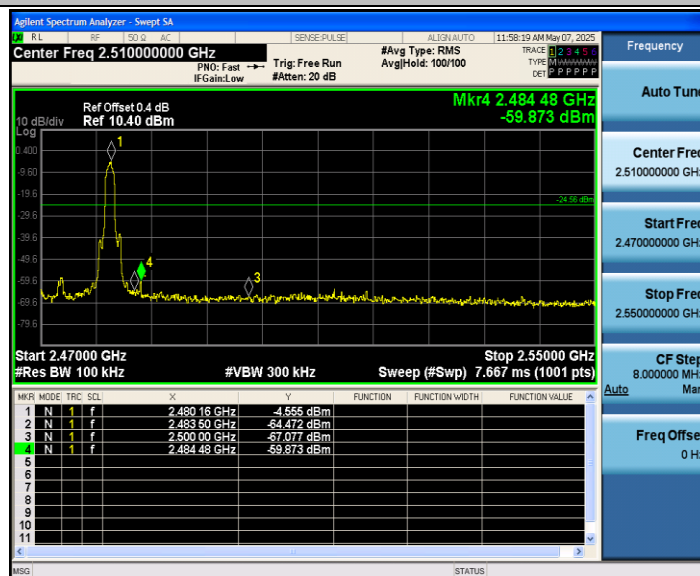
2DH5_Ant1_High_Hop_2480



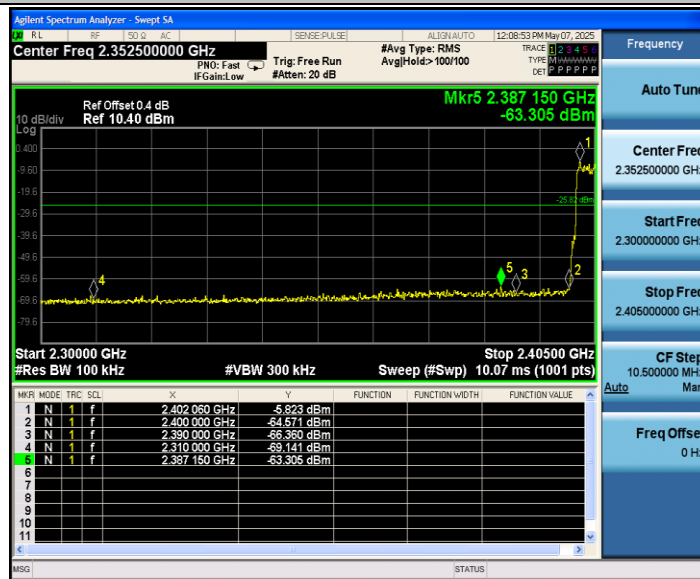
3DH5_Ant1_Low_2402



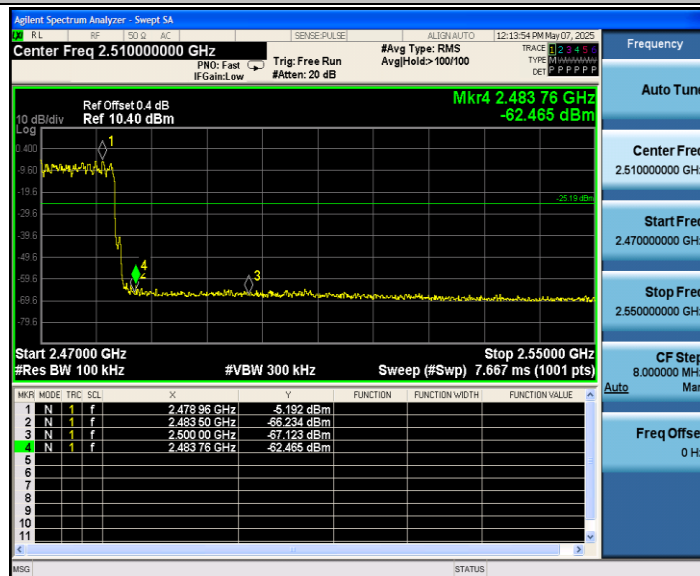
3DH5_Ant1_High_2480



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	1.02	1.02	---	PASS
			30~1000	1.02	-67.8	≤-18.98	PASS
			1000~26500	1.02	-43.43	≤-18.98	PASS
		2441	Reference	0.69	0.69	---	PASS
			30~1000	0.69	-67.42	≤-19.31	PASS
			1000~26500	0.69	-45.28	≤-19.31	PASS
		2480	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-68.09	≤-19.36	PASS
			1000~26500	0.64	-45.51	≤-19.36	PASS
2DH5	Ant1	2402	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-67.53	≤-22.3	PASS
			1000~26500	-2.30	-49.46	≤-22.3	PASS
		2441	Reference	-4.88	-4.88	---	PASS
			30~1000	-4.88	-67.75	≤-24.88	PASS
			1000~26500	-4.88	-49.22	≤-24.88	PASS
		2480	Reference	-4.99	-4.99	---	PASS
			30~1000	-4.99	-68.03	≤-24.99	PASS
			1000~26500	-4.99	-45.53	≤-24.99	PASS
3DH5	Ant1	2402	Reference	-4.05	-4.05	---	PASS
			30~1000	-4.05	-67.75	≤-24.05	PASS
			1000~26500	-4.05	-52.2	≤-24.05	PASS
		2441	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-67.6	≤-23.04	PASS
			1000~26500	-3.04	-48.91	≤-23.04	PASS
		2480	Reference	-4.57	-4.57	---	PASS
			30~1000	-4.57	-67.59	≤-24.57	PASS
			1000~26500	-4.57	-45.94	≤-24.57	PASS