

FCC Appendix RF Test Data for BT

FCC ID : 2BM7C-GD-80

Company : Xiamen Deyin Technology Co.,Ltd

EUT : Thermal printer

Model Number : GD-80

Report No. : CTA25112402402

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	0.942	2440.553	2441.495	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.320	2401.349	2402.669	---	---
		2441	1.308	2440.355	2441.663	---	---
		2480	1.314	2479.352	2480.666	---	---
3DH5	Ant1	2402	1.281	2401.379	2402.660	---	---
		2441	1.329	2440.349	2441.678	---	---
		2480	1.320	2479.349	2480.669	---	---

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

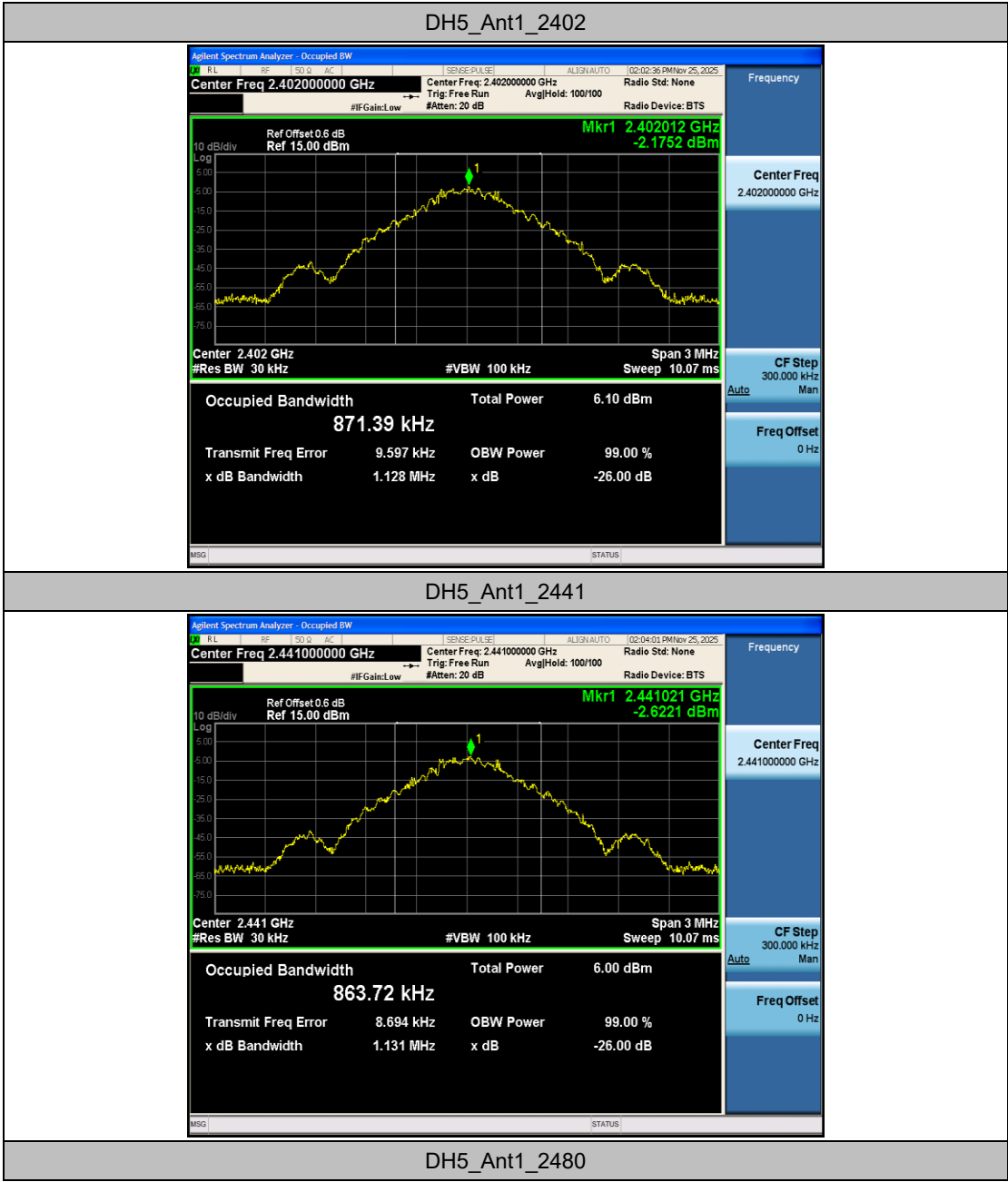


Appendix B: Occupied Channel Bandwidth

Test Result

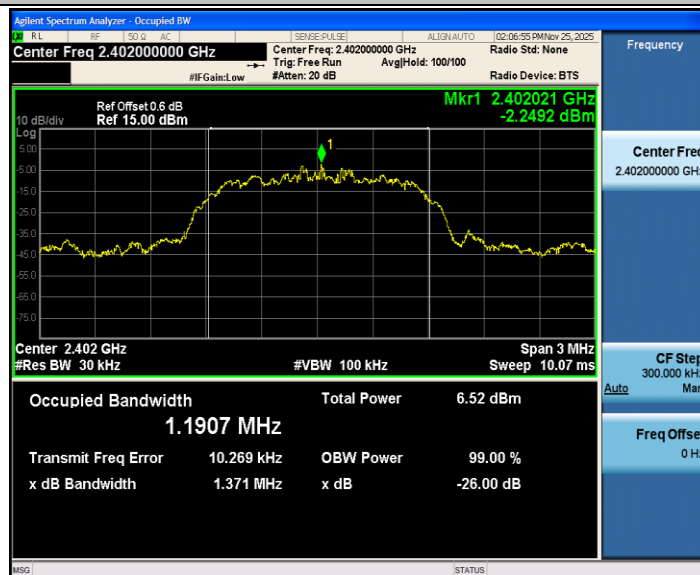
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87139	2401.5739	2402.4453	---	---
		2441	0.86372	2440.5768	2441.4406	---	---
		2480	0.87094	2479.5734	2480.4443	---	---
2DH5	Ant1	2402	1.1907	2401.4149	2402.6056	---	---
		2441	1.1931	2440.4154	2441.6085	---	---
		2480	1.1902	2479.4156	2480.6058	---	---
3DH5	Ant1	2402	1.1878	2401.4159	2402.6037	---	---
		2441	1.1853	2440.4179	2441.6032	---	---
		2480	1.1901	2479.4168	2480.6069	---	---

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	0.21	≤20.97	PASS
		2441	-0.03	≤20.97	PASS
		2480	-0.08	≤20.97	PASS
2DH5	Ant1	2402	2.92	≤20.97	PASS
		2441	2.64	≤20.97	PASS
		2480	2.59	≤20.97	PASS
3DH5	Ant1	2402	2.95	≤20.97	PASS
		2441	2.65	≤20.97	PASS
		2480	2.63	≤20.97	PASS

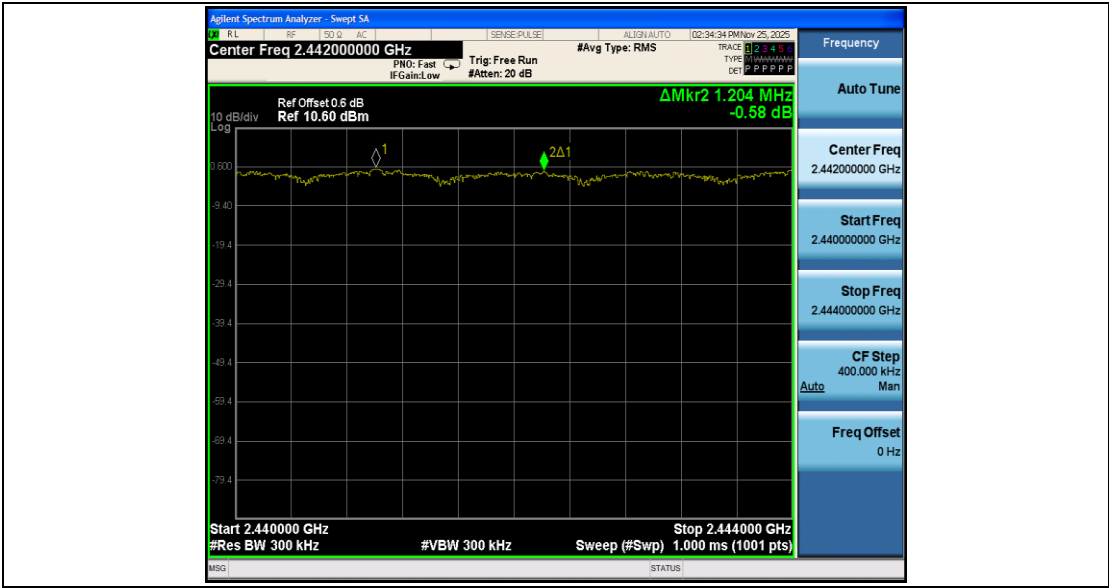
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥ 0.960	PASS
2DH5	Ant1	Hop	1.328	≥ 1.320	PASS
3DH5	Ant1	Hop	1.204	≥ 0.886	PASS

Test Graphs



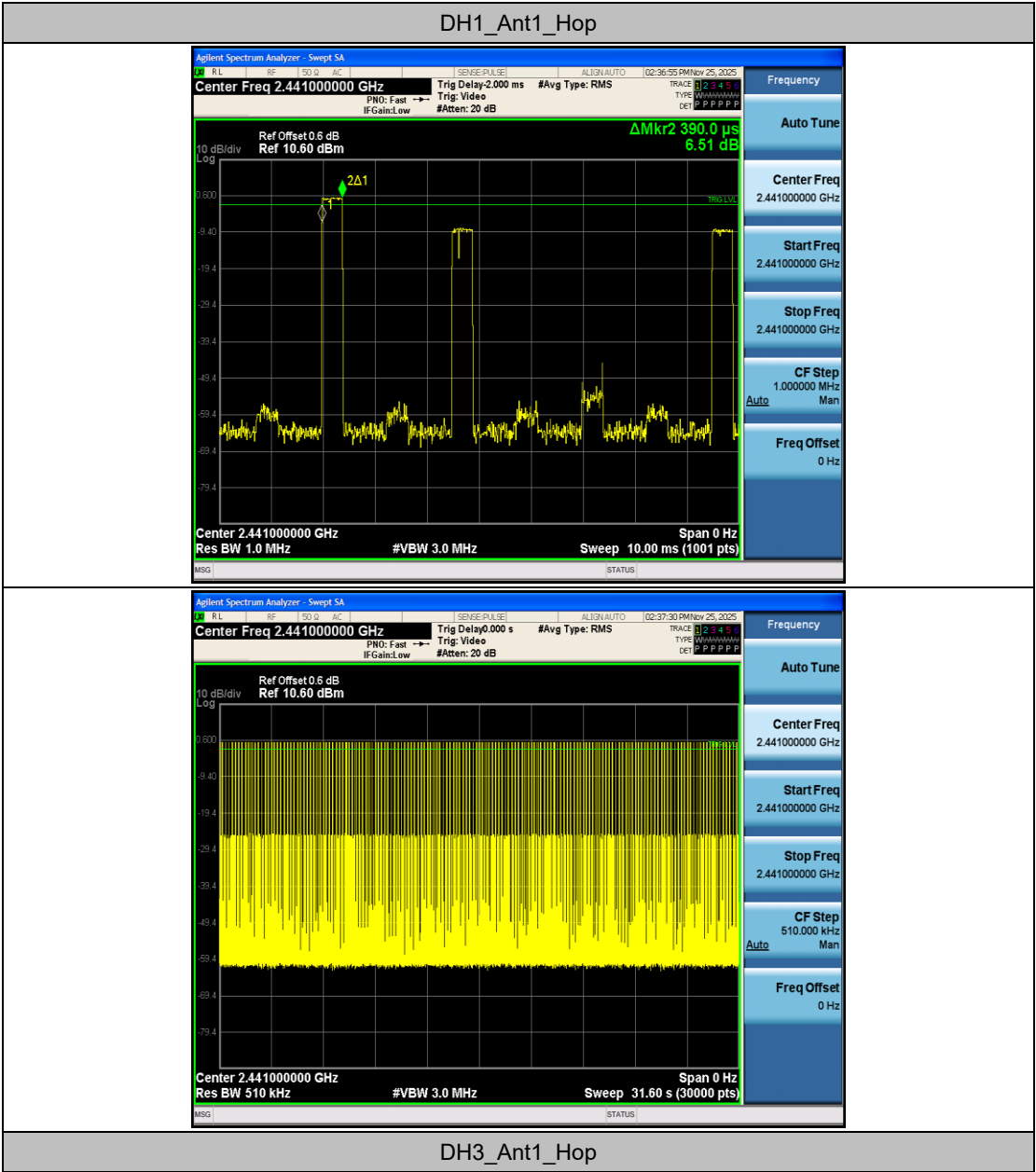


Appendix E: Time of occupancy

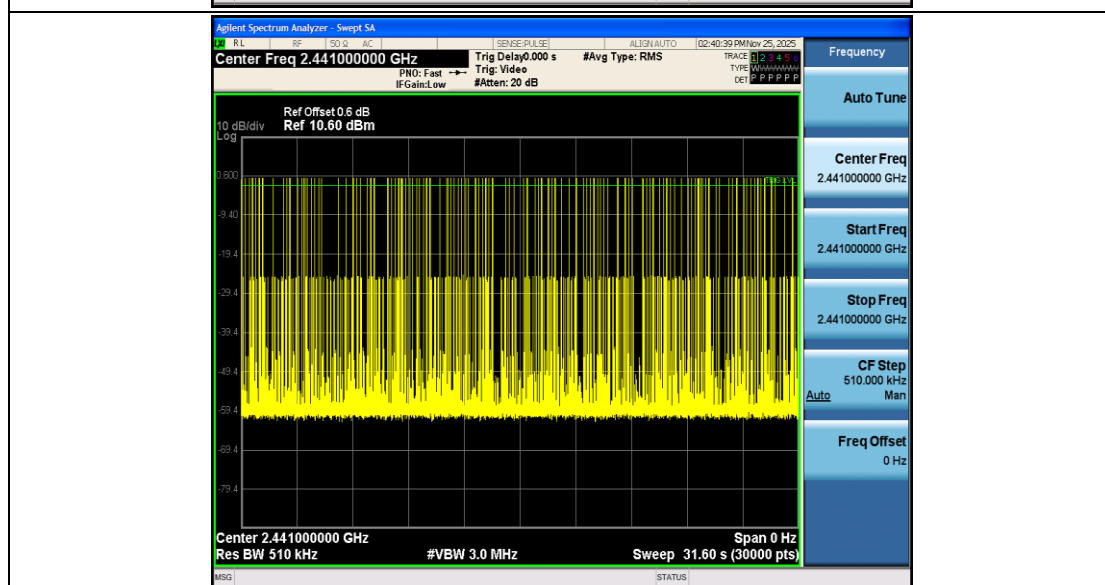
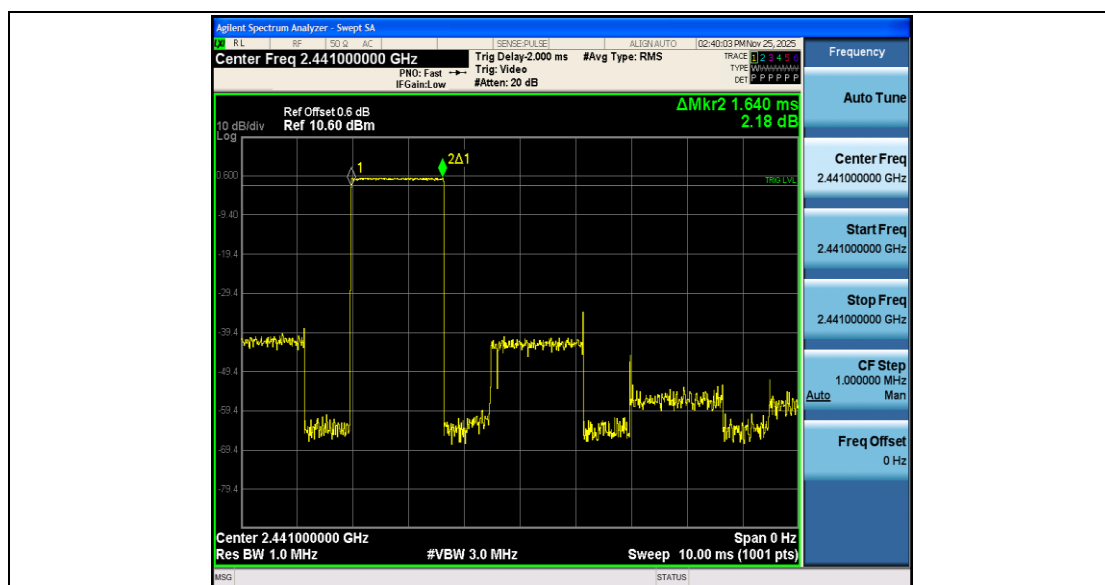
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	148	0.243	≤0.4	PASS
DH5	Ant1	Hop	2.890	111	0.321	≤0.4	PASS
2DH1	Ant1	Hop	0.390	315	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.650	161	0.266	≤0.4	PASS
2DH5	Ant1	Hop	2.890	100	0.289	≤0.4	PASS
3DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	150	0.246	≤0.4	PASS
3DH5	Ant1	Hop	2.900	94	0.273	≤0.4	PASS

Test Graphs

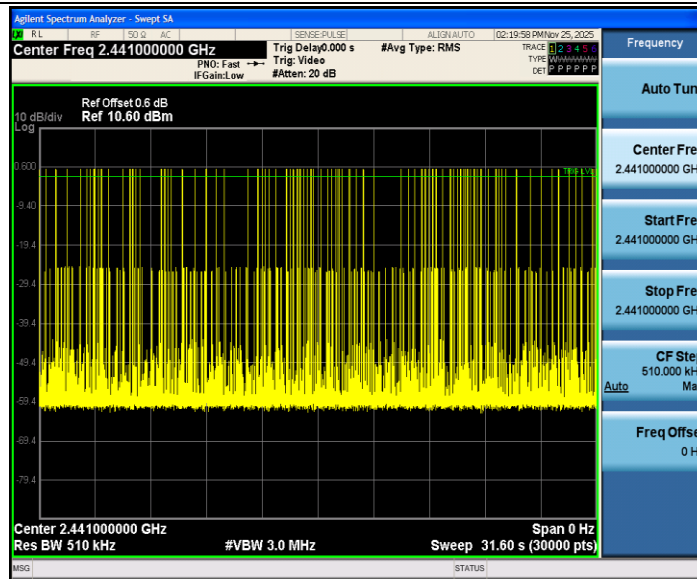


DH3_Ant1_Hop

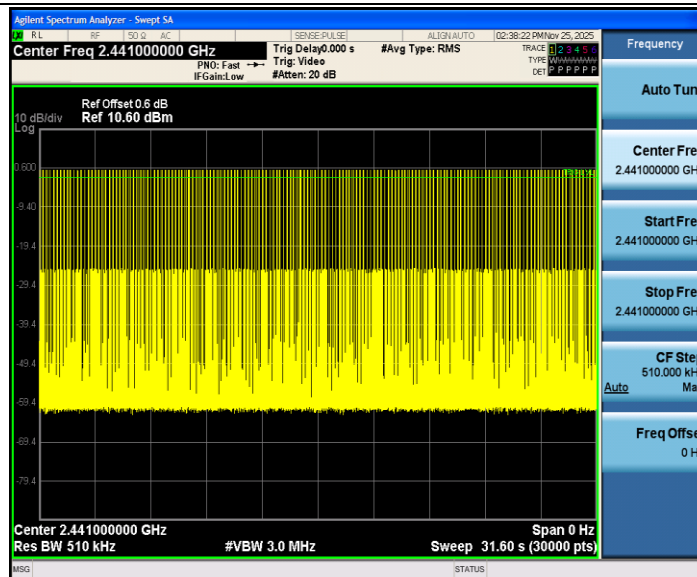
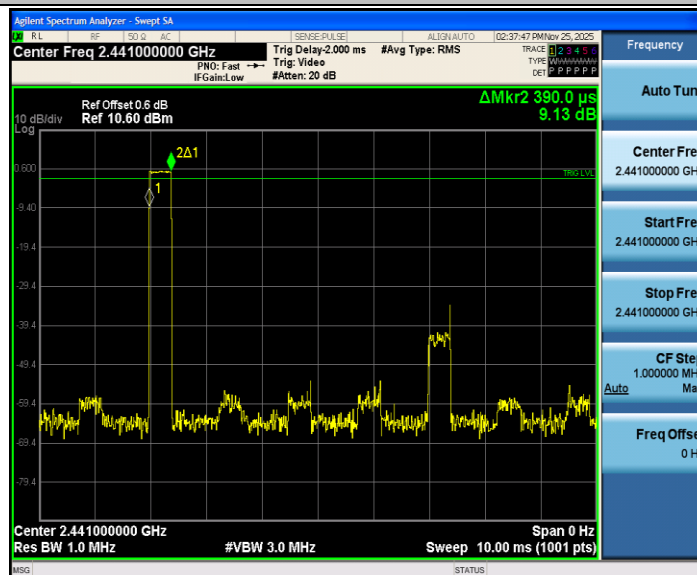


DH5_Ant1_Hop

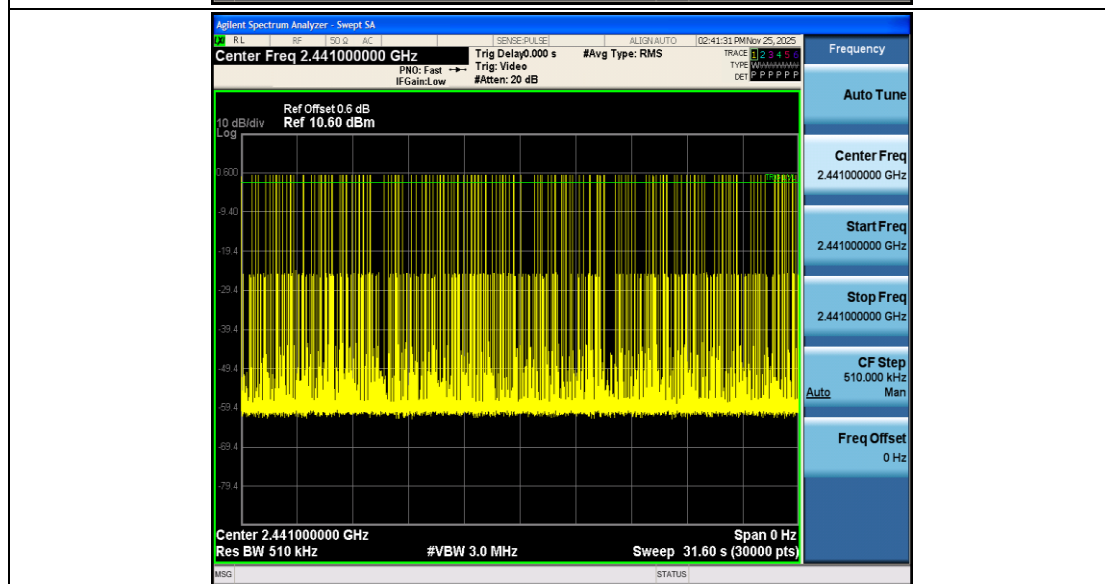




2DH1_Ant1_Hop

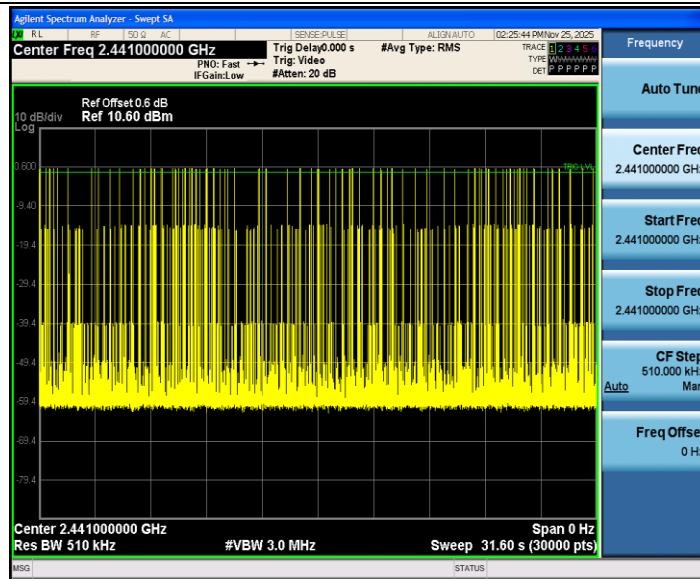


2DH3_Ant1_Hop

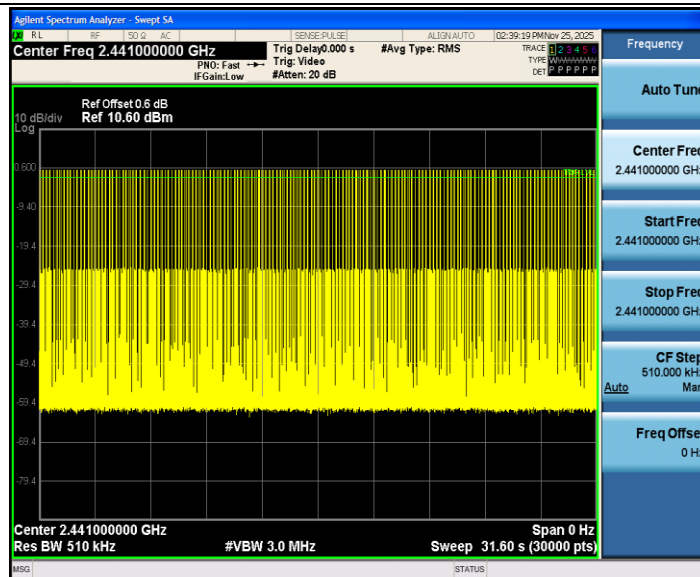
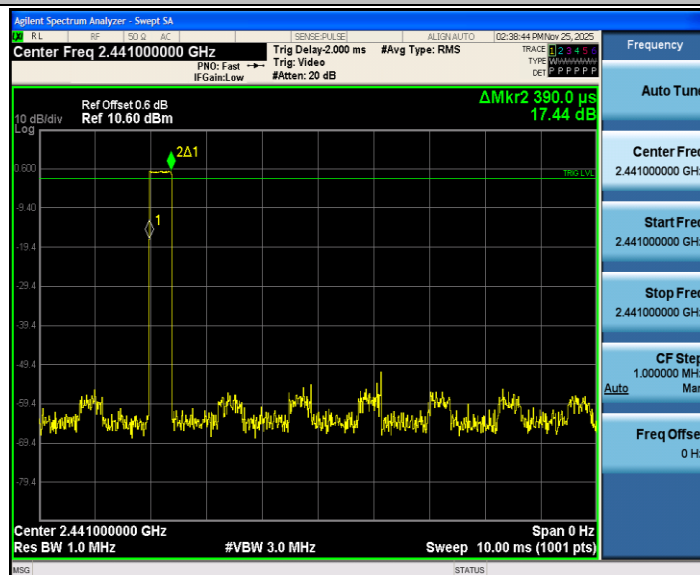


2DH5_Ant1_Hop

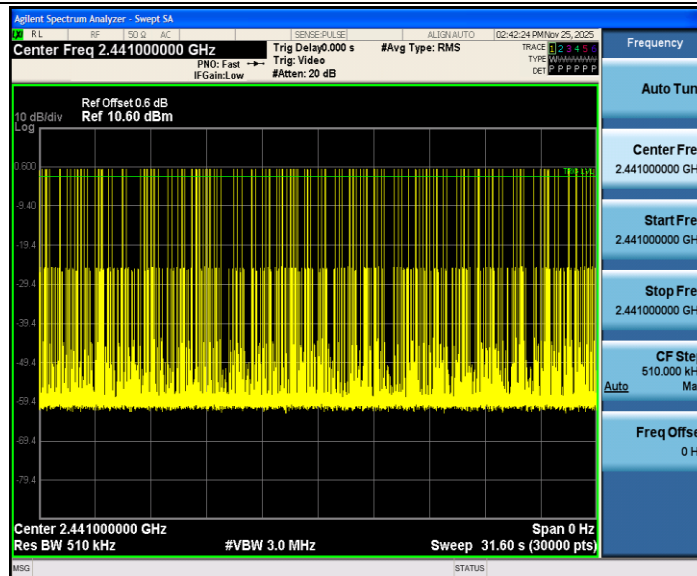
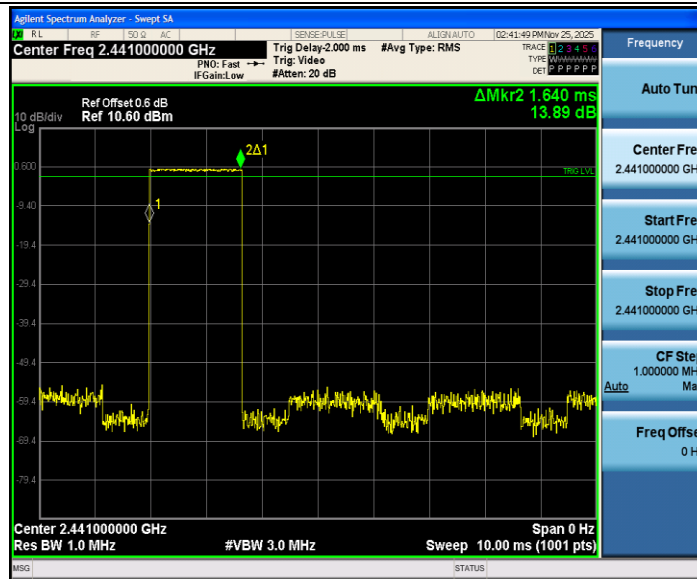




3DH1_Ant1_Hop

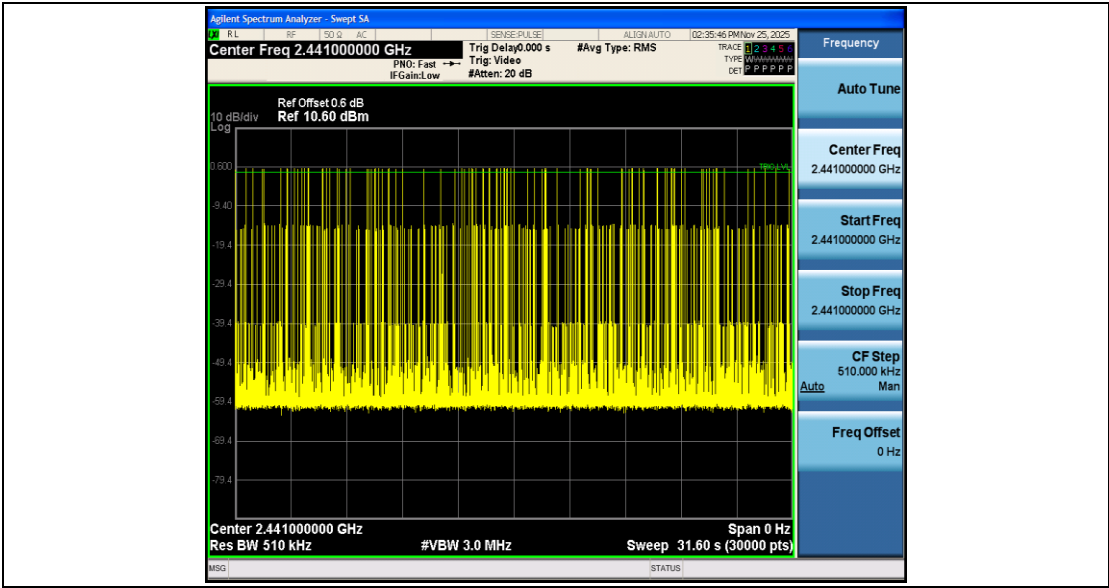


3DH3_Ant1_Hop



3DH5_Ant1_Hop





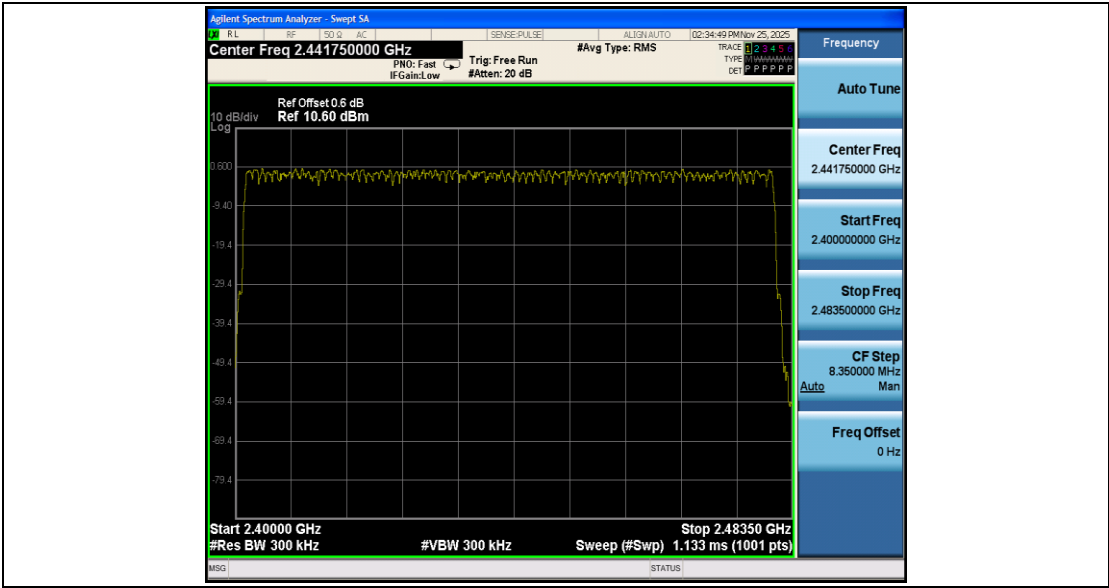
Appendix F: Number of hopping channels

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



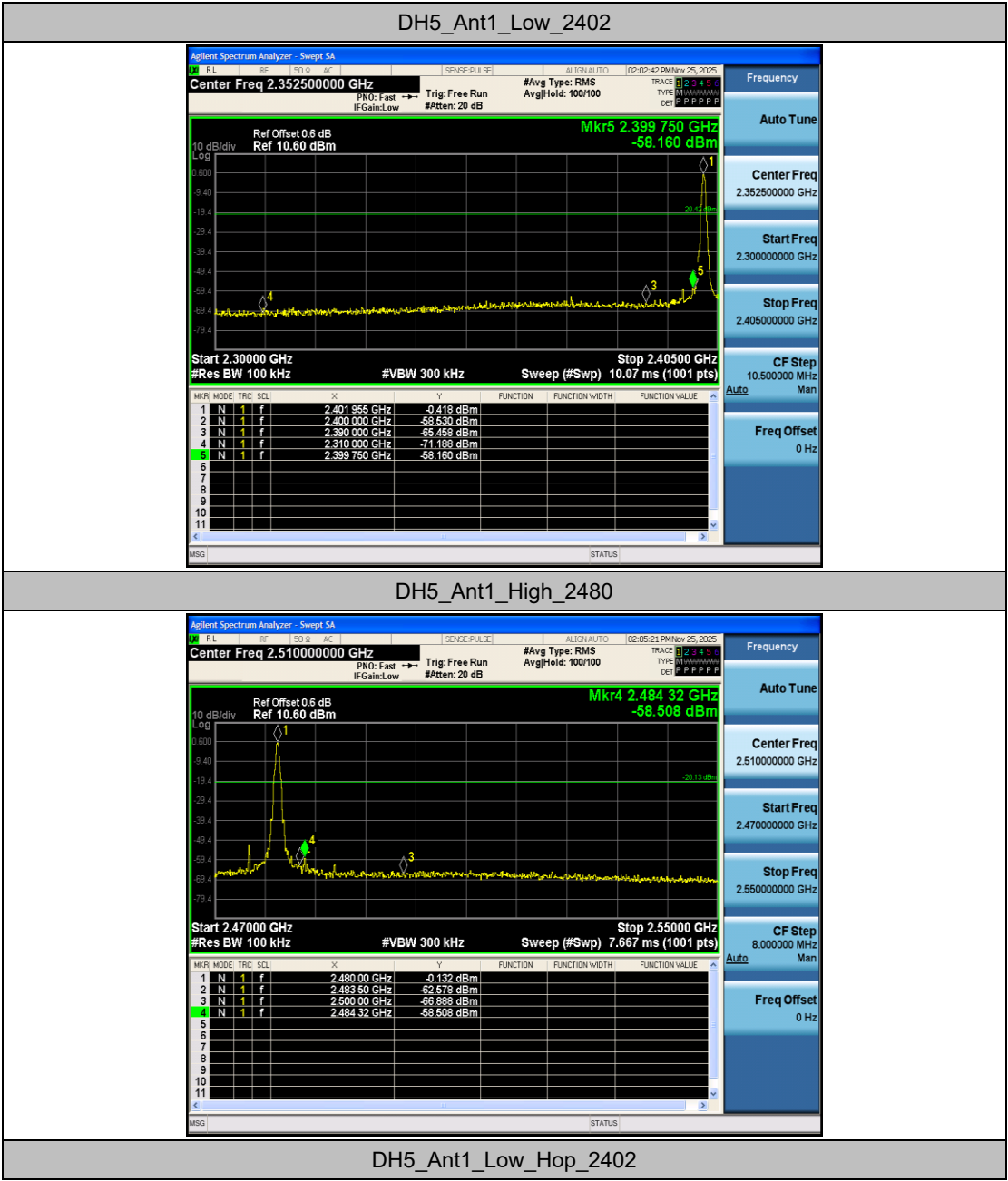


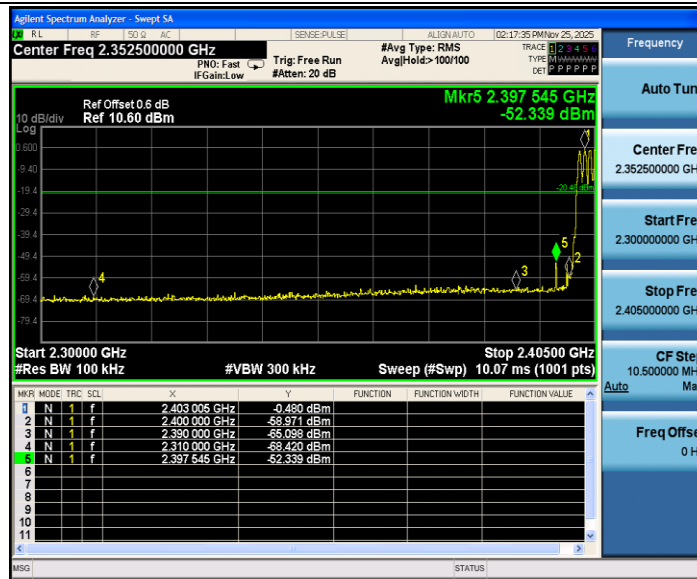
Appendix G: Band edge measurements

Test Result

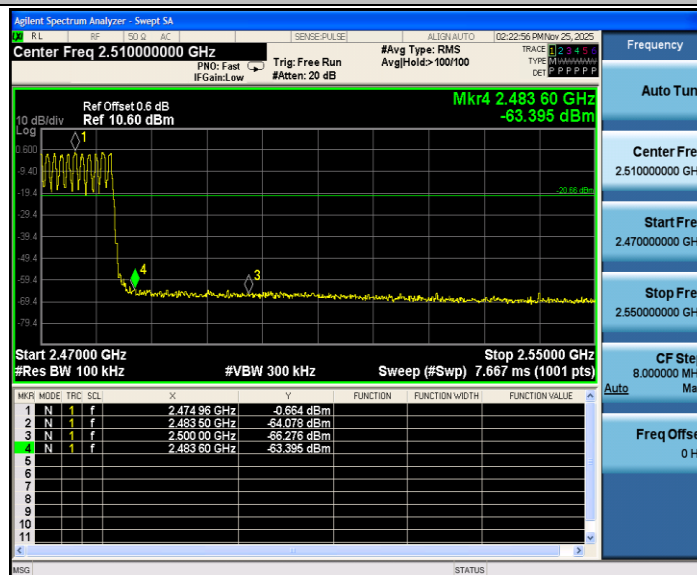
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.42	-58.16	≤-20.42	PASS
		High	2480	-0.13	-58.51	≤-20.13	PASS
		Low	Hop_2402	-0.48	-52.34	≤-20.48	PASS
		High	Hop_2480	-0.66	-63.4	≤-20.66	PASS
2DH5	Ant1	Low	2402	-0.73	-50.95	≤-20.73	PASS
		High	2480	-2.28	-60.77	≤-22.28	PASS
		Low	Hop_2402	-3.05	-55.98	≤-23.05	PASS
		High	Hop_2480	-1.15	-63.83	≤-21.15	PASS
3DH5	Ant1	Low	2402	-0.87	-49.55	≤-20.87	PASS
		High	2480	-0.01	-62	≤-20.01	PASS
		Low	Hop_2402	-0.92	-54.63	≤-20.92	PASS
		High	Hop_2480	-0.64	-64.43	≤-20.64	PASS

Test Graphs

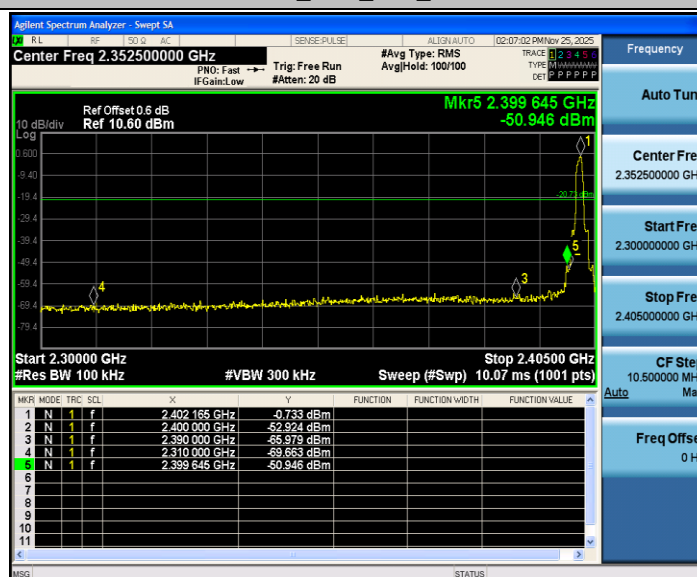




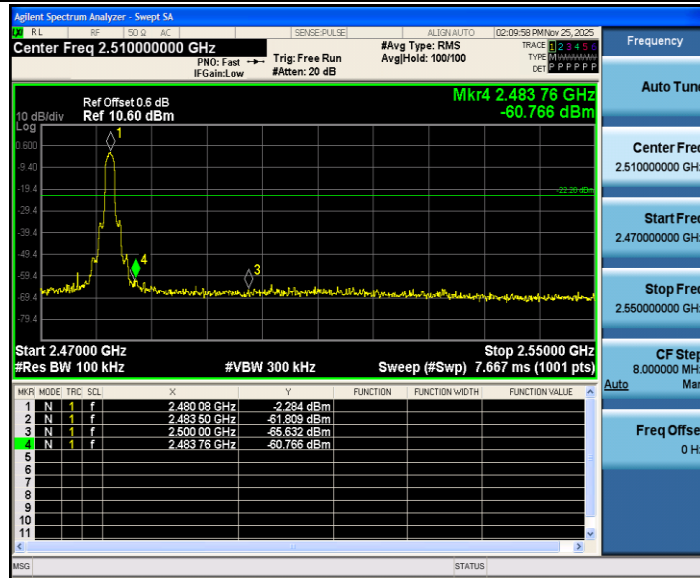
DH5_Ant1_High_Hop_2480



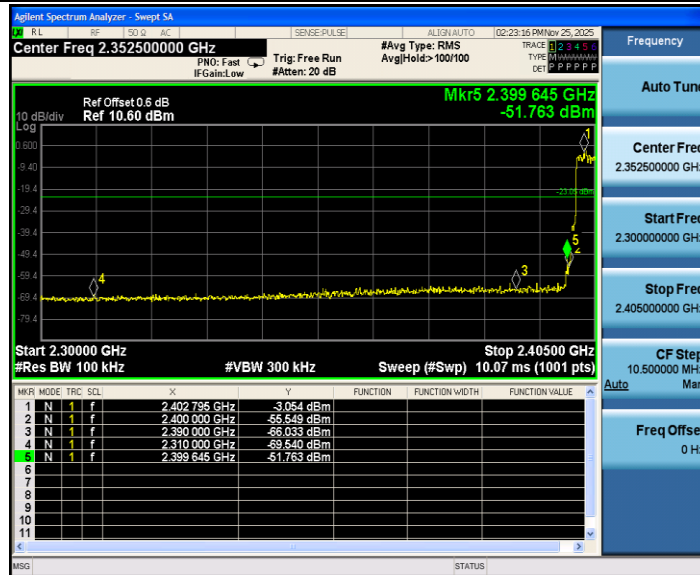
2DH5_Ant1_Low_2402



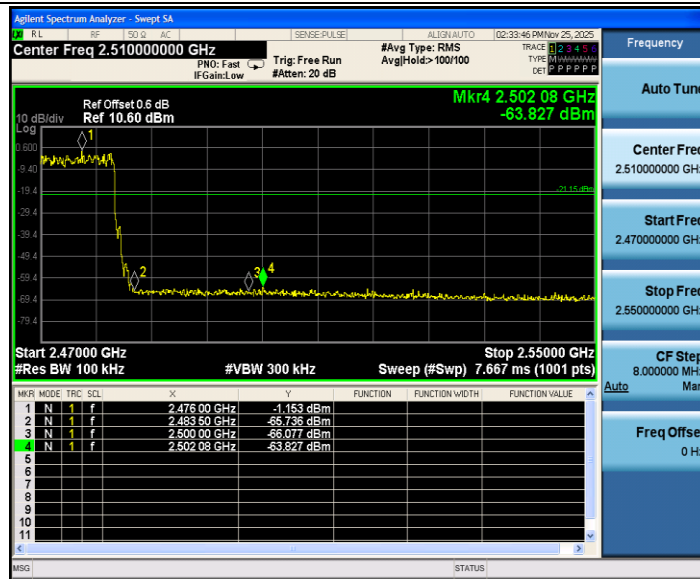
2DH5_Ant1_High_2480



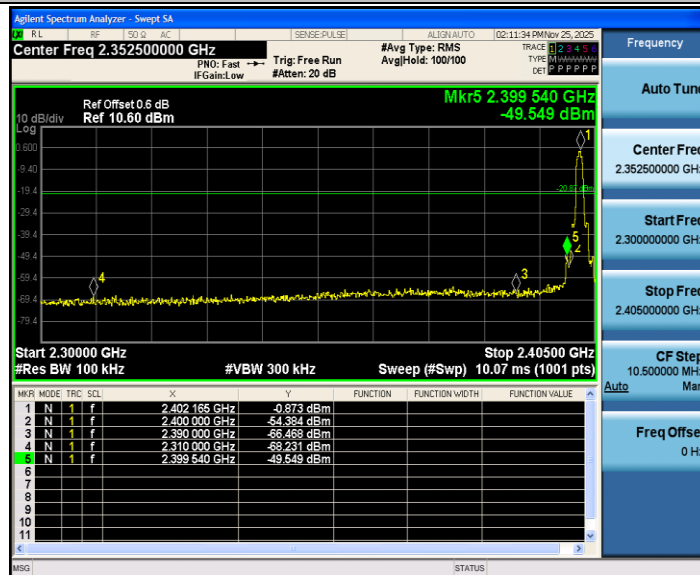
2DH5_Ant1_Low_Hop_2402



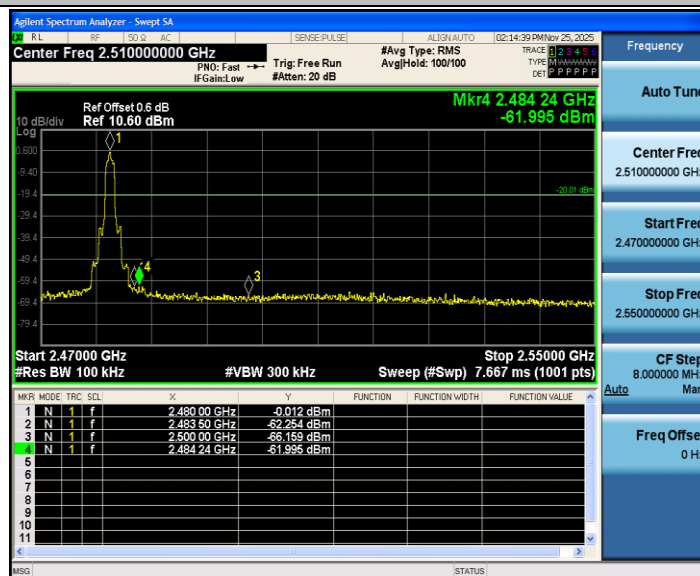
2DH5_Ant1_High_Hop_2480



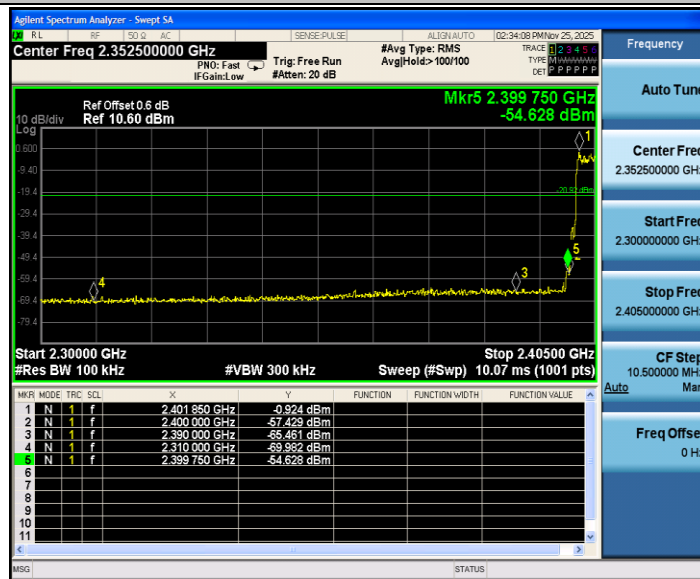
3DH5_Ant1_Low_2402



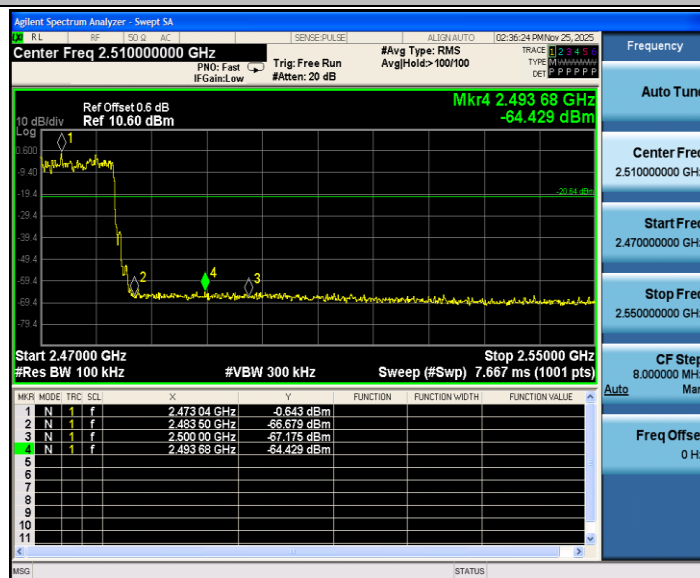
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

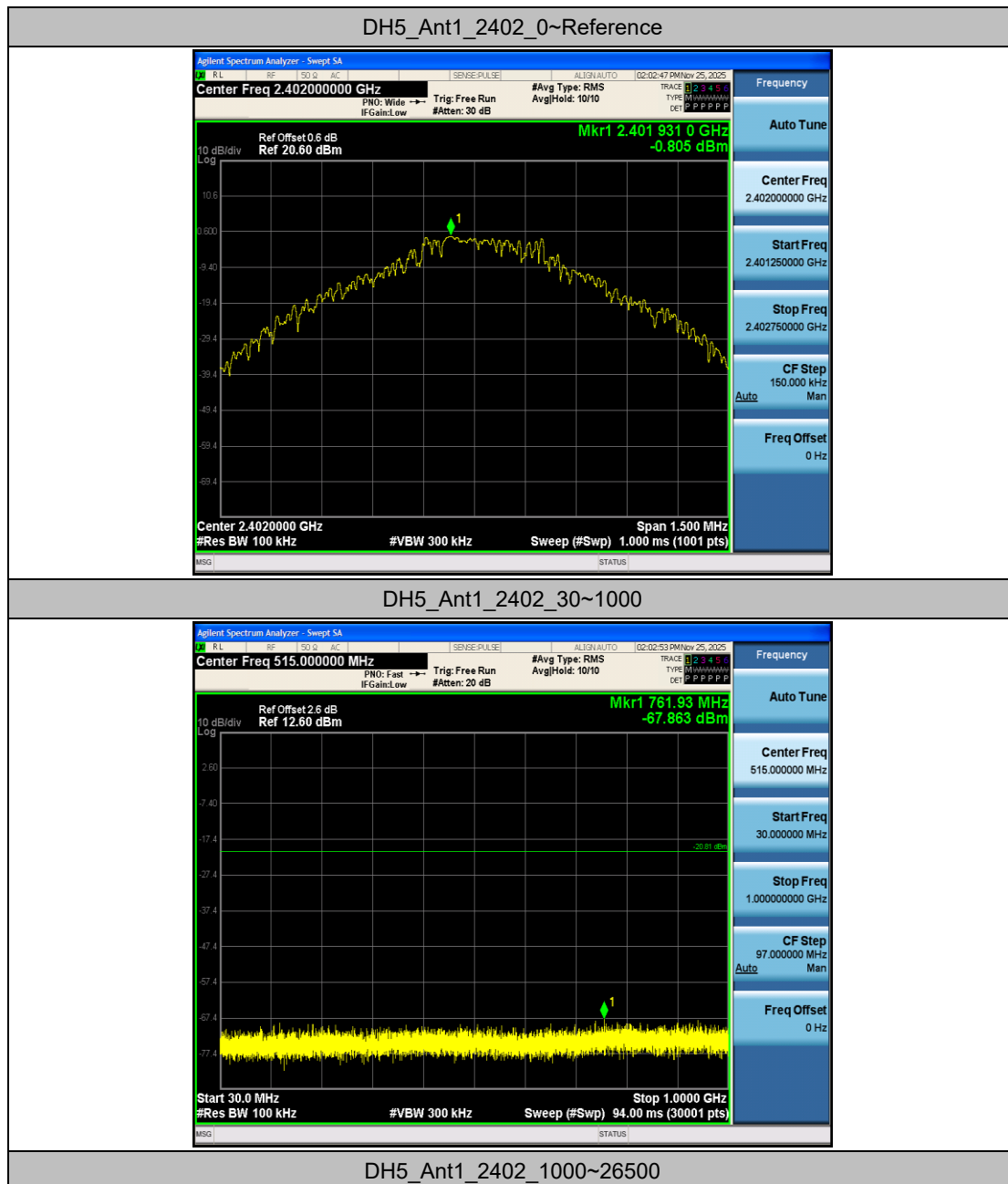


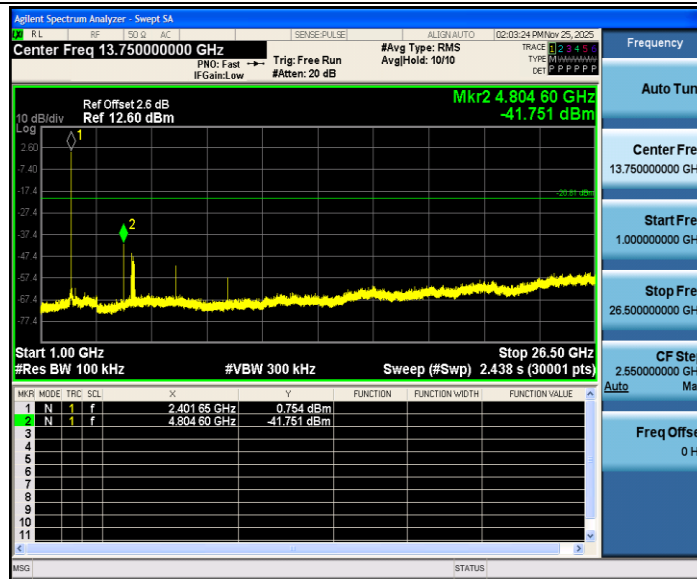
Appendix H: Conducted Spurious Emission

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	-67.86	≤-20.81	PASS
			1000~26500	-0.81	-41.75	≤-20.81	PASS
		2441	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-68.03	≤-20.9	PASS
			1000~26500	-0.90	-41.38	≤-20.9	PASS
		2480	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-67.73	≤-20.75	PASS
			1000~26500	-0.75	-43.11	≤-20.75	PASS
2DH5	Ant1	2402	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-67.64	≤-21.53	PASS
			1000~26500	-1.53	-42.13	≤-21.53	PASS
		2441	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-68.36	≤-21.63	PASS
			1000~26500	-1.63	-42.78	≤-21.63	PASS
		2480	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-66.96	≤-20.83	PASS
			1000~26500	-0.83	-44.55	≤-20.83	PASS
3DH5	Ant1	2402	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-63.88	≤-21.43	PASS
			1000~26500	-1.43	-44.83	≤-21.43	PASS
		2441	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-68.44	≤-22.21	PASS
			1000~26500	-2.21	-44.01	≤-22.21	PASS
		2480	Reference	-1.68	-1.68	---	PASS
			30~1000	-1.68	-67.5	≤-21.68	PASS
			1000~26500	-1.68	-43.69	≤-21.68	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

