

FCC Appendix RF Test Data for BT

FCC ID : 2BM7C-GD-85

Company : Xiamen Deyin Technology Co.,Ltd

EUT : Thermal printer

Model Number : GD-85

Report No. : CTA25091801802

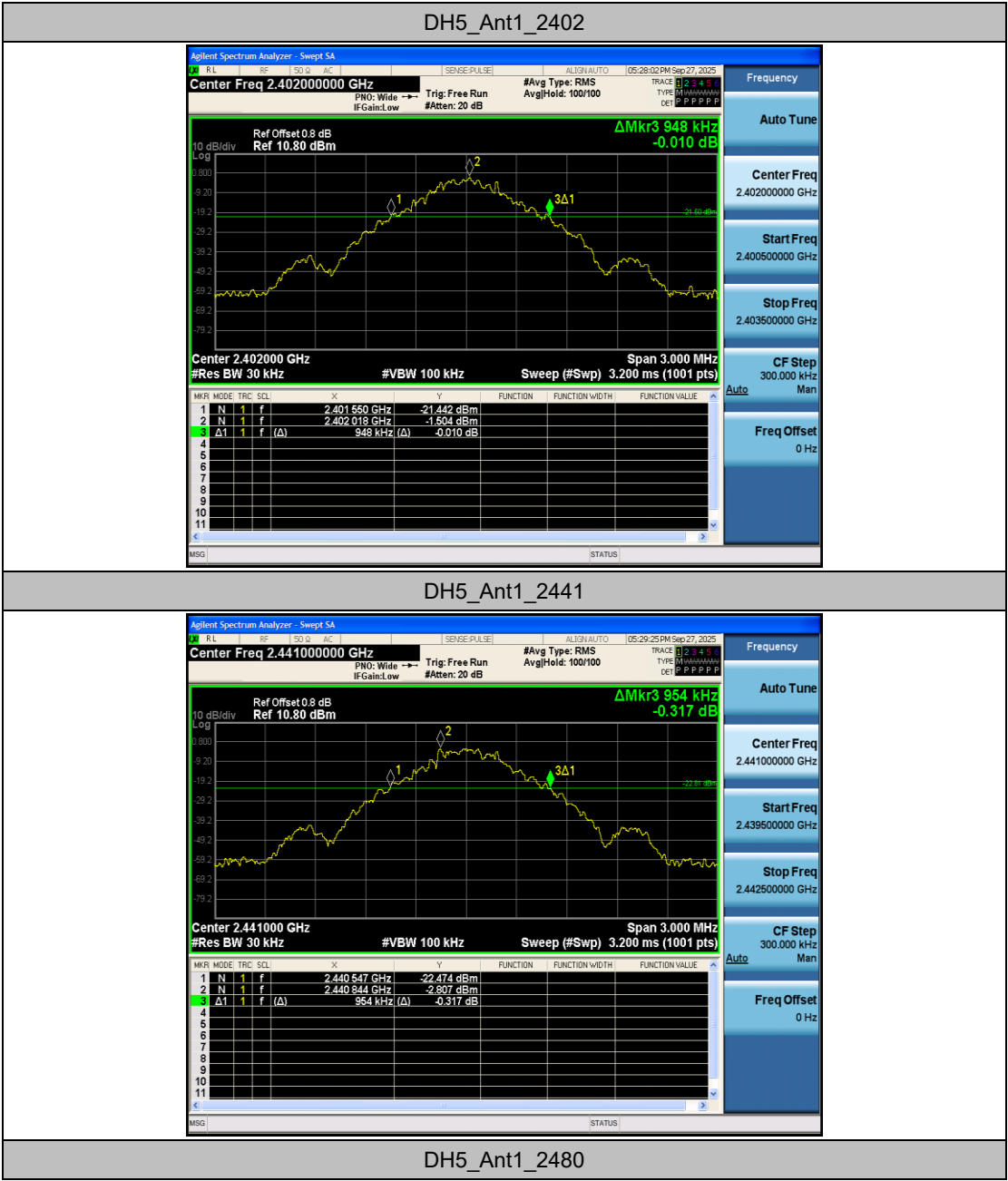
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.550	2402.498	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.314	2401.352	2402.666	---	---
		2441	1.332	2440.340	2441.672	---	---
		2480	1.275	2479.382	2480.657	---	---
3DH5	Ant1	2402	1.323	2401.343	2402.666	---	---
		2441	1.332	2440.346	2441.678	---	---
		2480	1.281	2479.379	2480.660	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



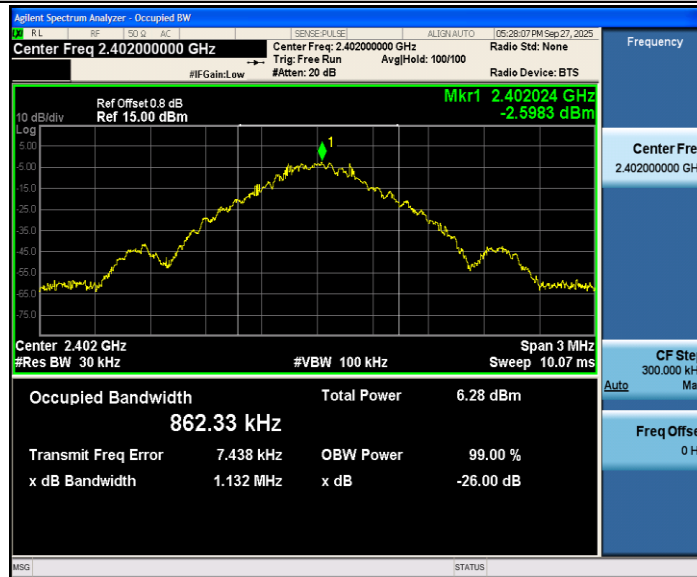
Appendix B: Occupied Channel Bandwidth

Test Result

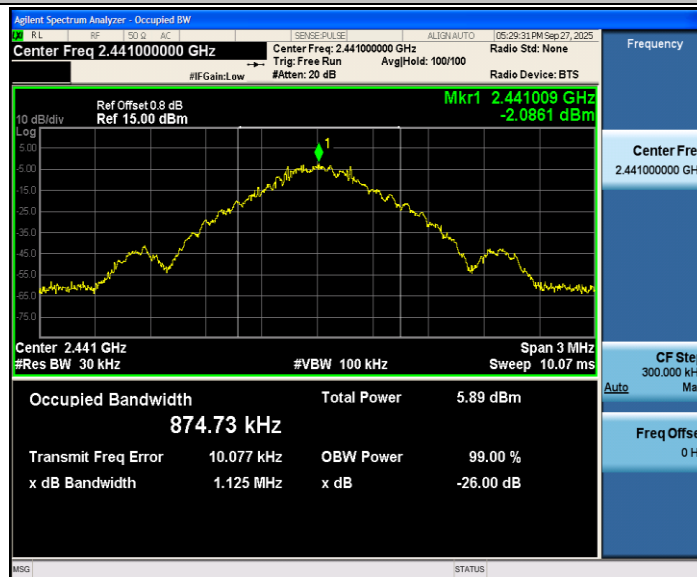
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86233	2401.5763	2402.4386	---	---
		2441	0.87473	2440.5727	2441.4474	---	---
		2480	0.86956	2479.5724	2480.4420	---	---
2DH5	Ant1	2402	1.1895	2401.4151	2402.6046	---	---
		2441	1.1884	2440.4159	2441.6043	---	---
		2480	1.1853	2479.4181	2480.6034	---	---
3DH5	Ant1	2402	1.1892	2401.4148	2402.6040	---	---
		2441	1.1893	2440.4147	2441.6040	---	---
		2480	1.1859	2479.4171	2480.6030	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



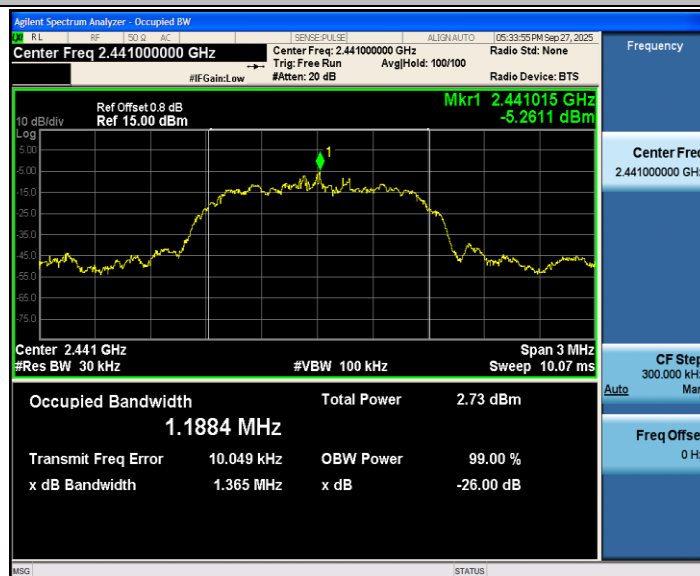
DH5_Ant1_2480



2DH5_Ant1_2402



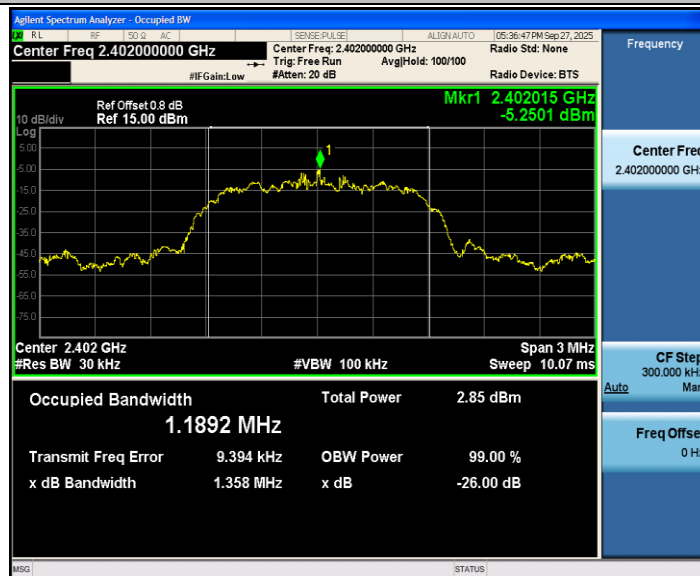
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

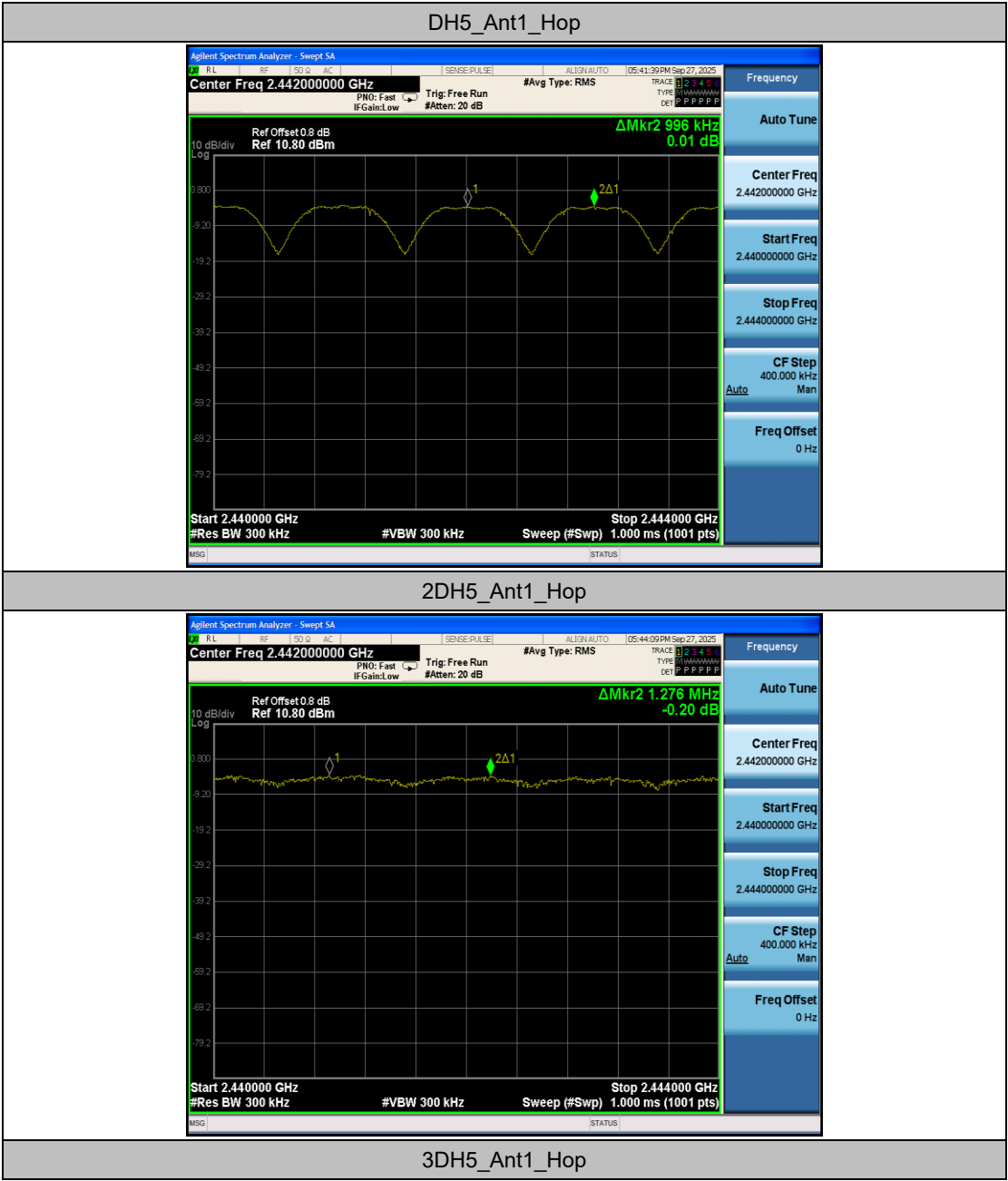
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.27	≤20.97	PASS
		2441	0.04	≤20.97	PASS
		2480	-0.04	≤20.97	PASS
2DH5	Ant1	2402	-0.63	≤20.97	PASS
		2441	-0.76	≤20.97	PASS
		2480	-0.83	≤20.97	PASS
3DH5	Ant1	2402	-0.58	≤20.97	PASS
		2441	-0.82	≤20.97	PASS
		2480	-0.83	≤20.97	PASS

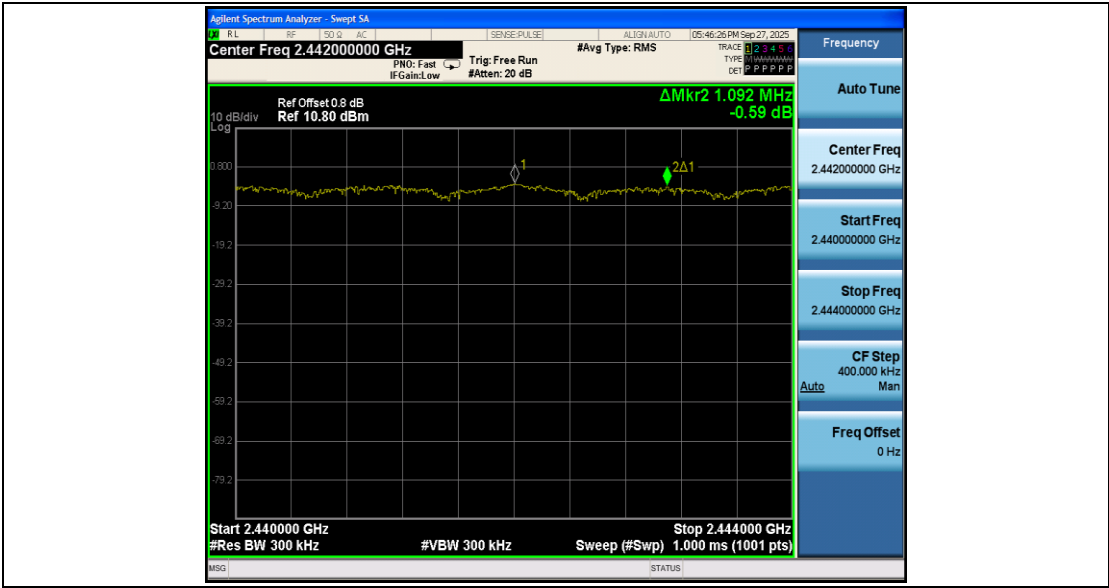
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.954	PASS
2DH5	Ant1	Hop	1.276	≥ 0.888	PASS
3DH5	Ant1	Hop	1.092	≥ 0.888	PASS

Test Graphs



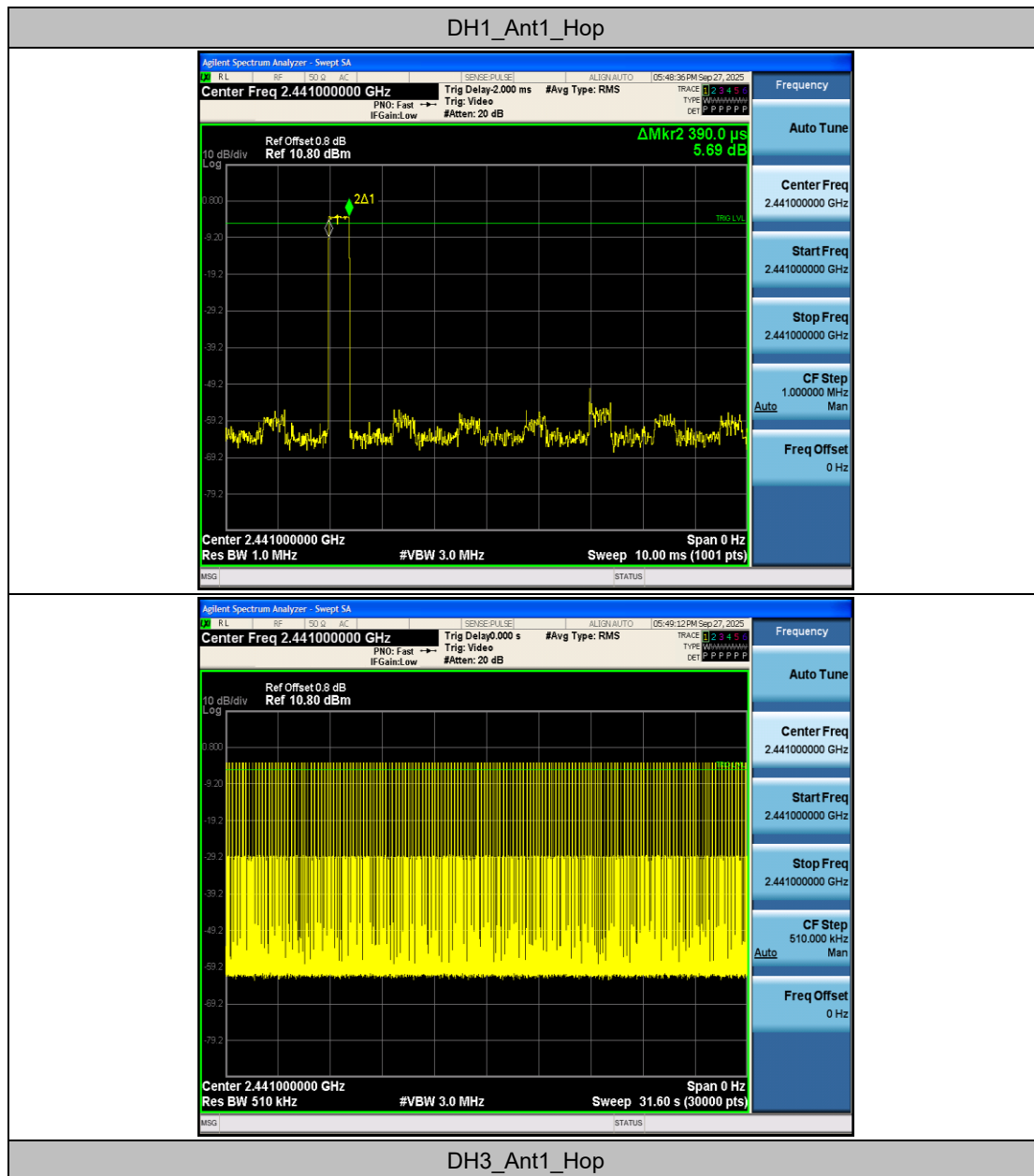


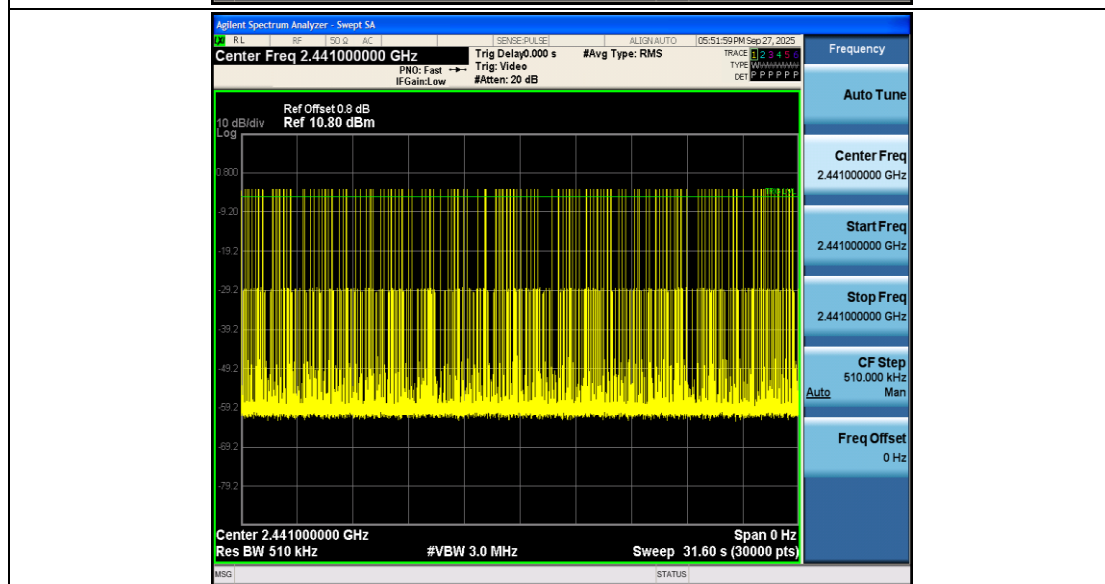
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.890	102	0.295	≤0.4	PASS
2DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.900	99	0.287	≤0.4	PASS
3DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	156	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.900	118	0.342	≤0.4	PASS

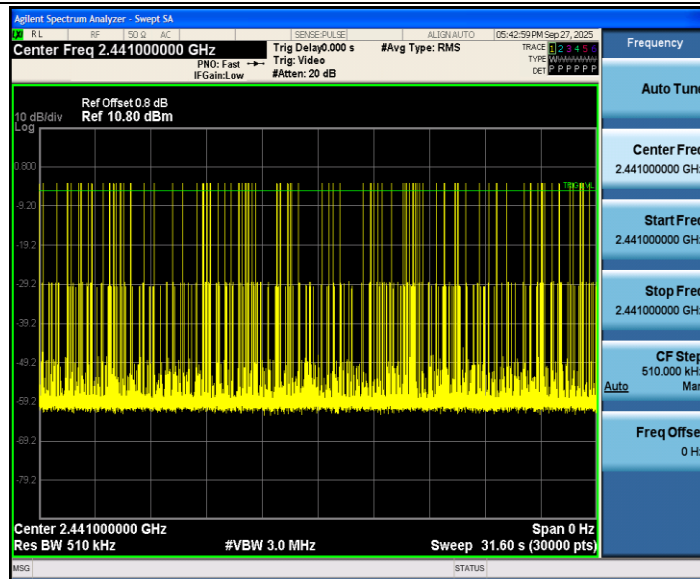
Test Graphs



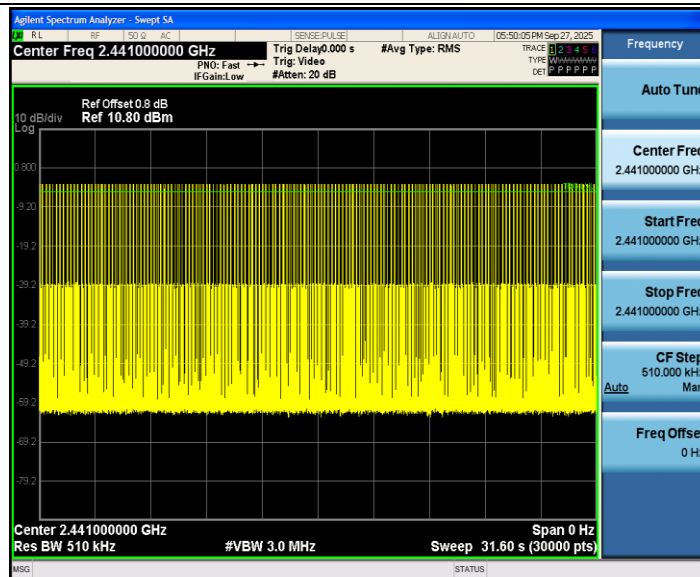
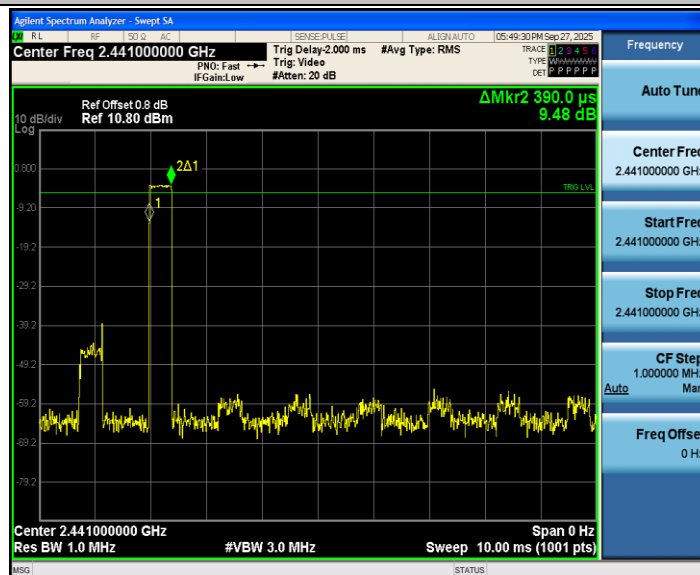


DH5_Ant1_Hop

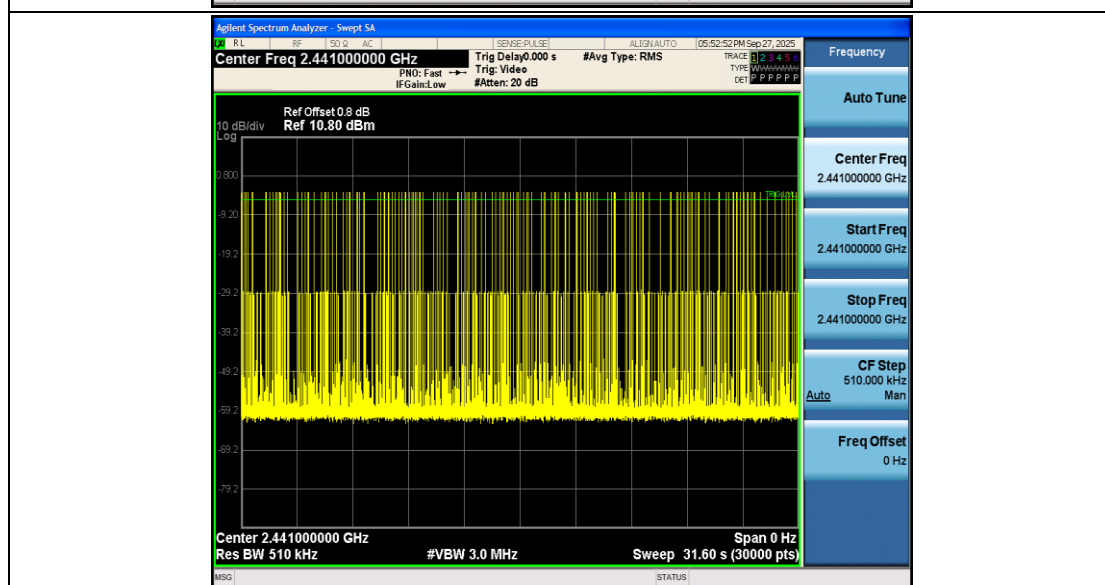




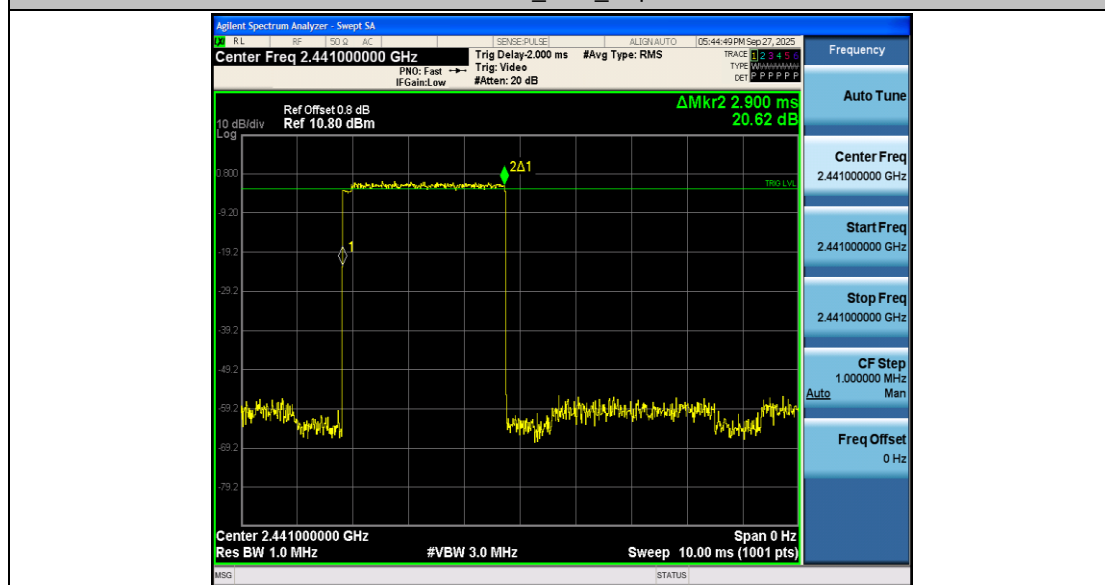
2DH1_Ant1_Hop

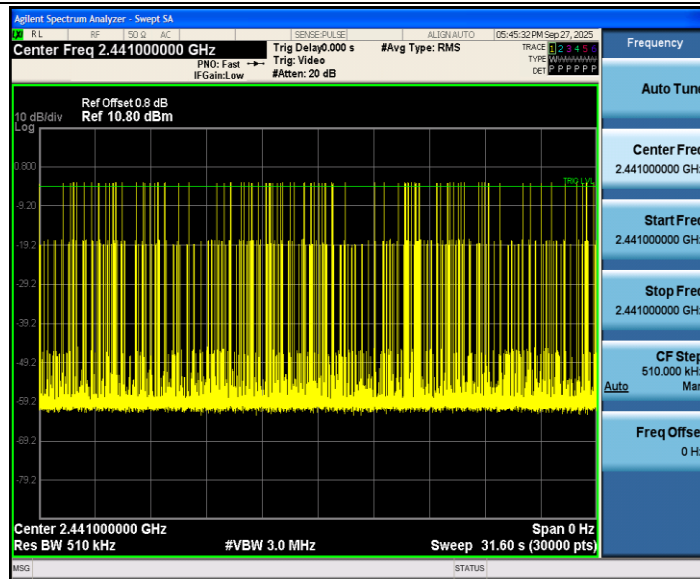


2DH3_Ant1_Hop

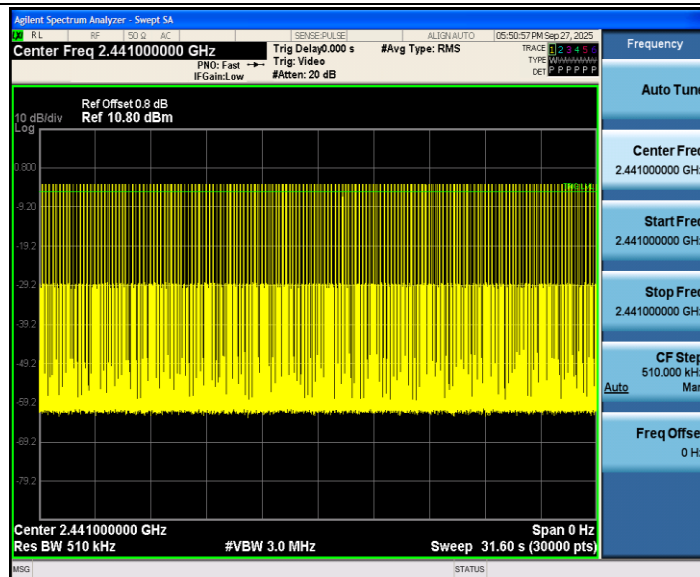
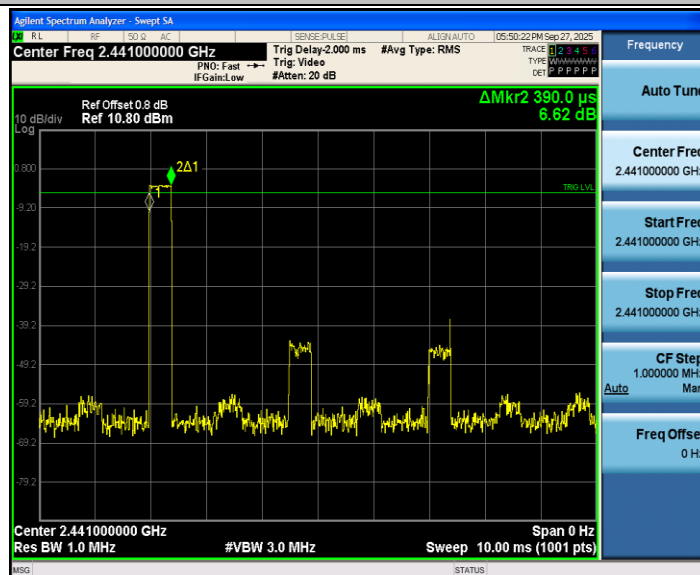


2DH5_Ant1_Hop

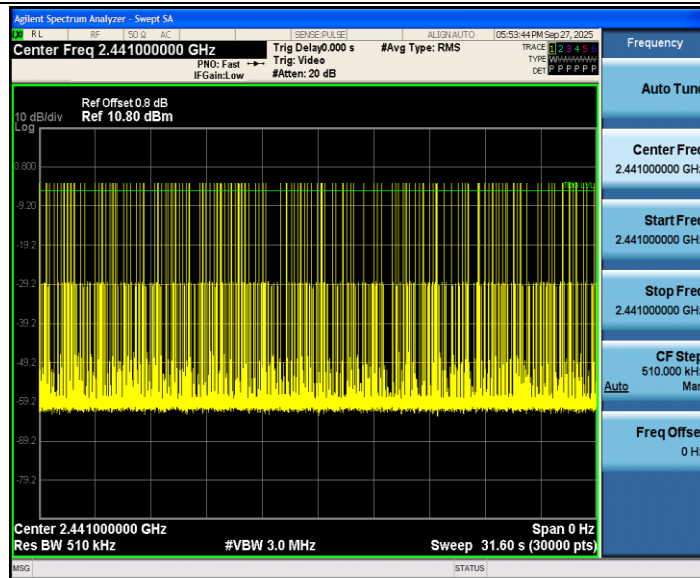




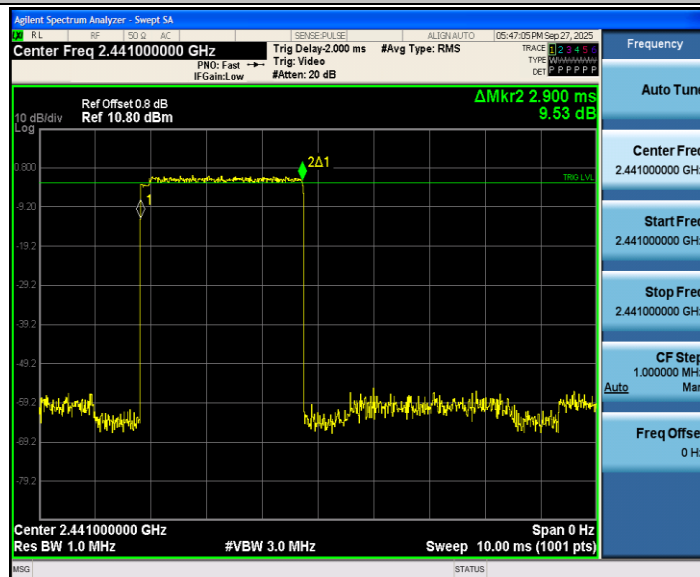
3DH1_Ant1_Hop

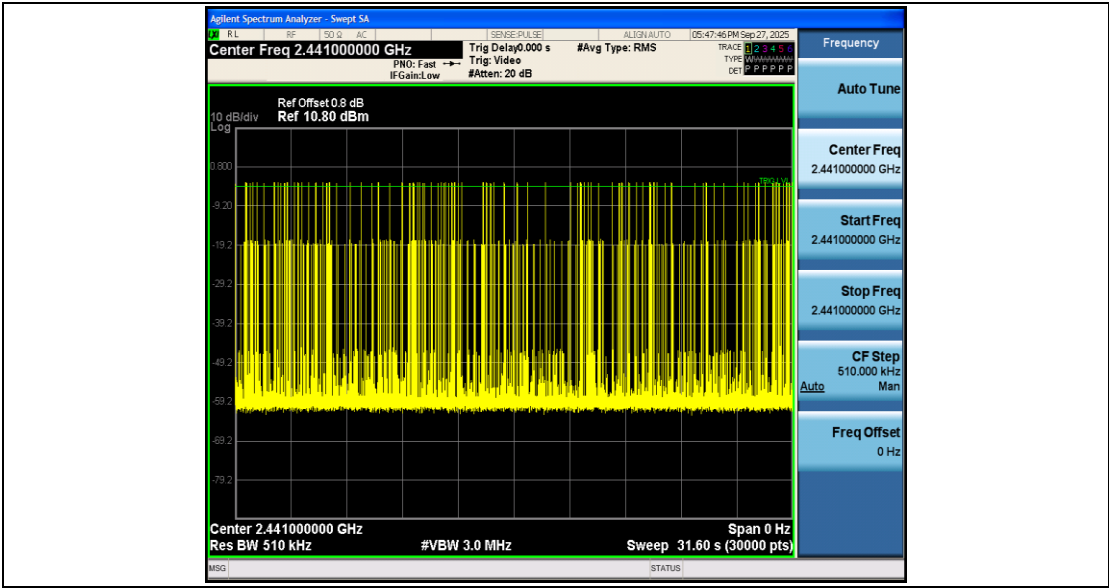


3DH3_Ant1_Hop



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

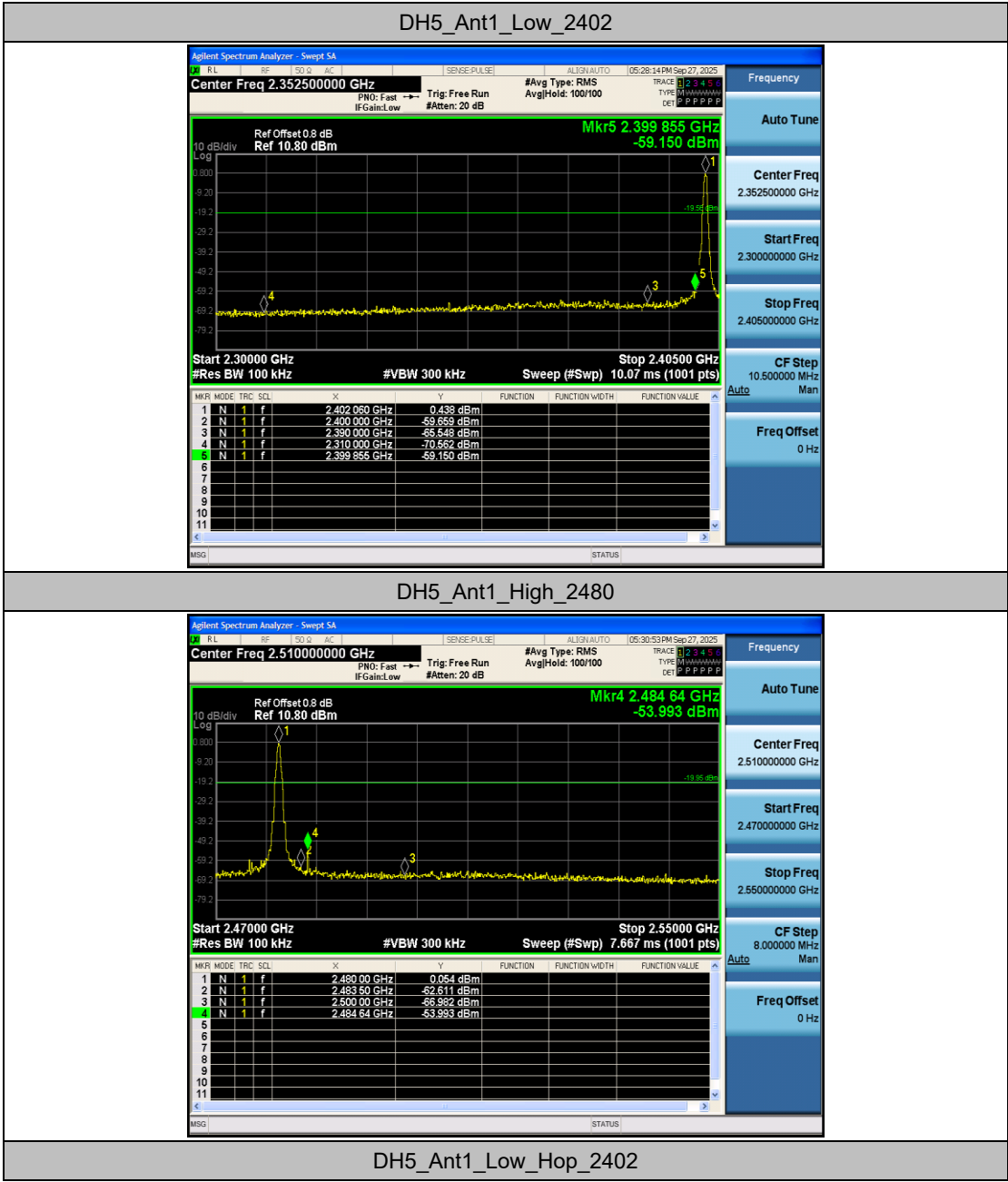


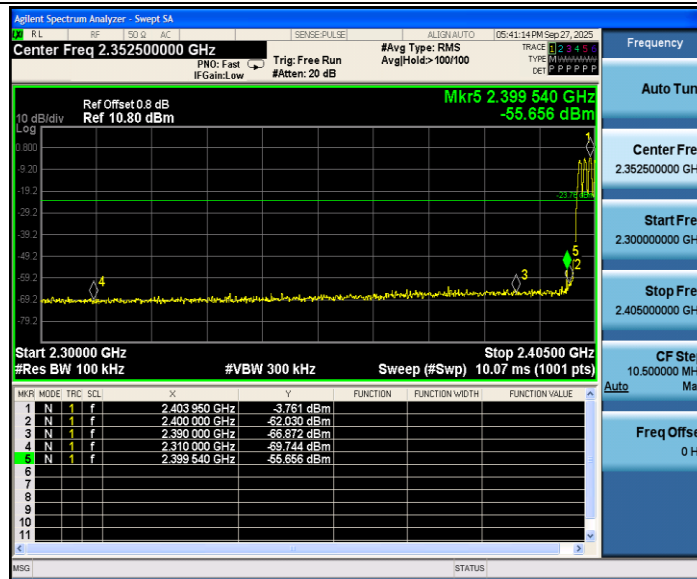
Appendix G: Band edge measurements

Test Result

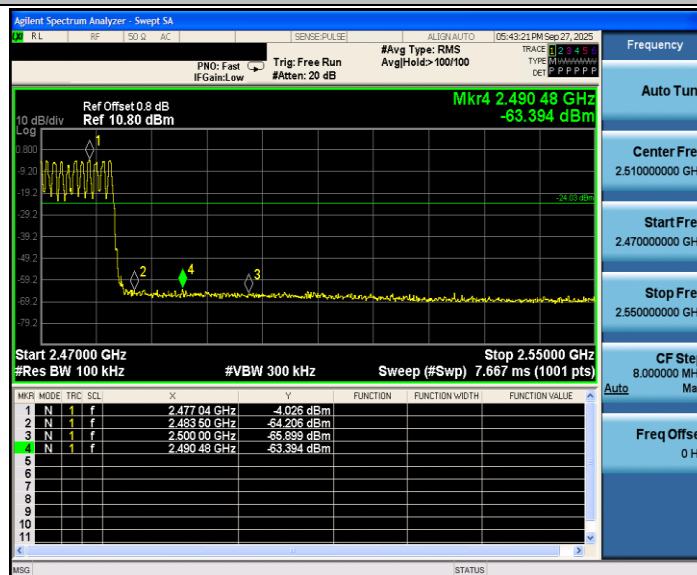
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.44	-59.15	≤-19.56	PASS
		High	2480	0.05	-53.99	≤-19.95	PASS
		Low	Hop_2402	-3.76	-55.66	≤-23.76	PASS
		High	Hop_2480	-4.03	-63.39	≤-24.03	PASS
2DH5	Ant1	Low	2402	-4.29	-60.04	≤-24.29	PASS
		High	2480	-4.97	-62.61	≤-24.97	PASS
		Low	Hop_2402	-5.16	-61.17	≤-25.16	PASS
		High	Hop_2480	-4.77	-63.87	≤-24.77	PASS
3DH5	Ant1	Low	2402	-4.09	-58.78	≤-24.09	PASS
		High	2480	-3.72	-62.76	≤-23.72	PASS
		Low	Hop_2402	-4.67	-58.58	≤-24.67	PASS
		High	Hop_2480	-4.94	-64.1	≤-24.94	PASS

Test Graphs

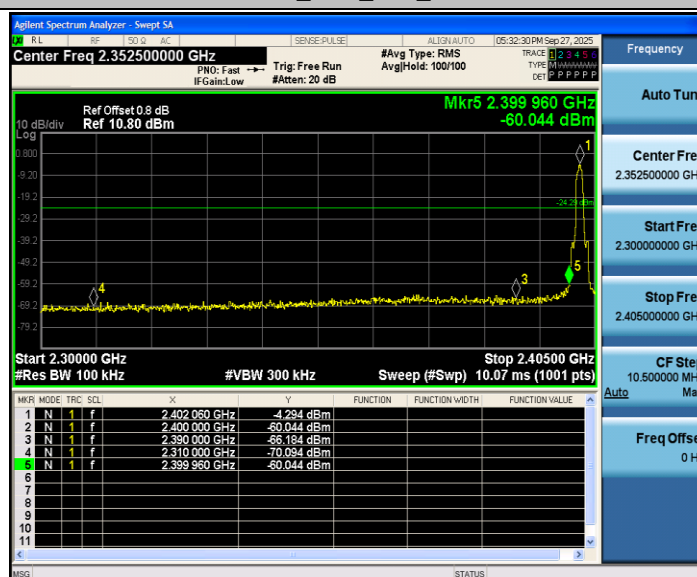




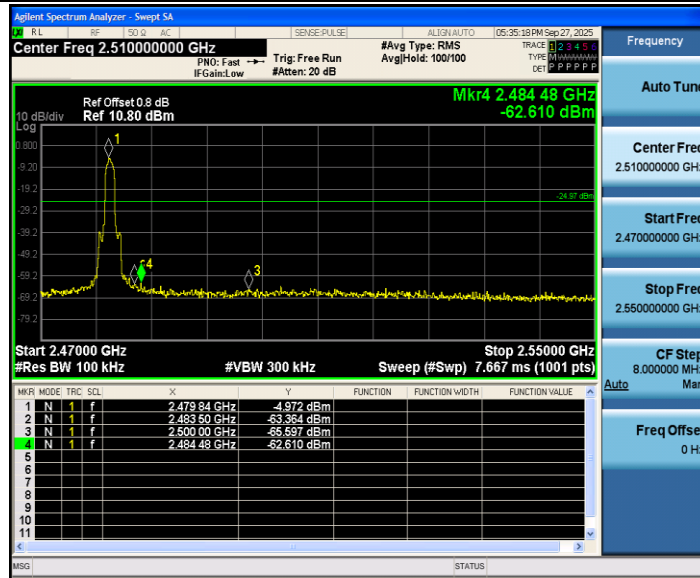
DH5_Ant1_High_Hop_2480



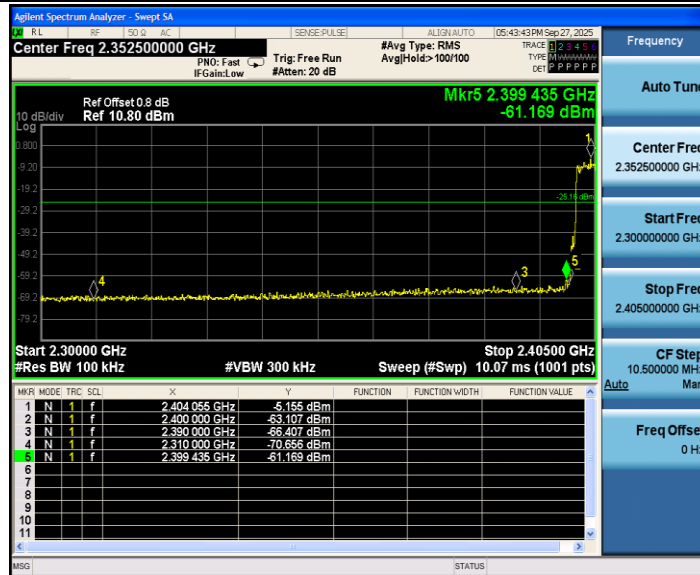
2DH5_Ant1_Low_2402



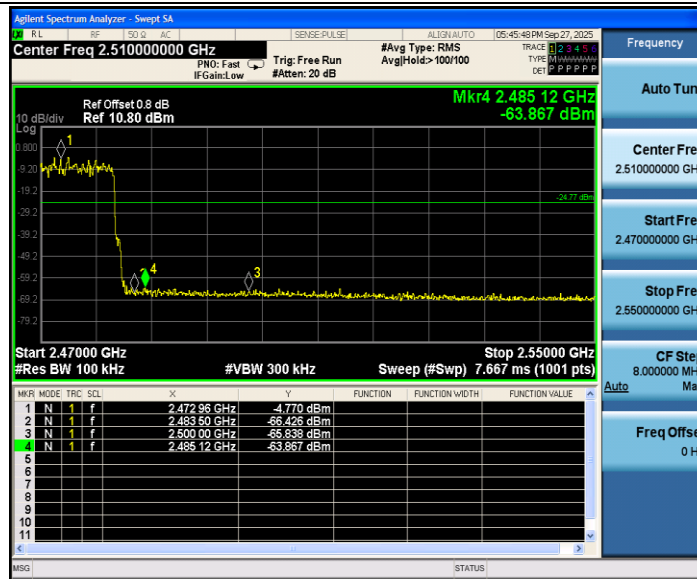
2DH5_Ant1_High_2480



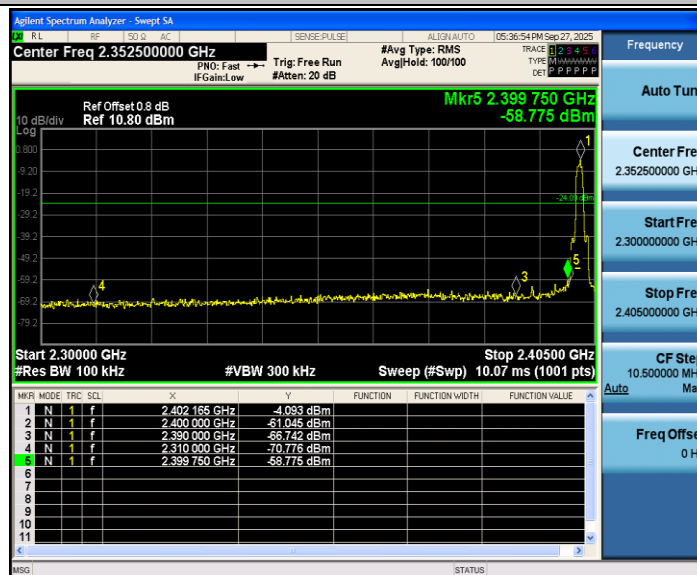
2DH5_Ant1_Low_Hop_2402



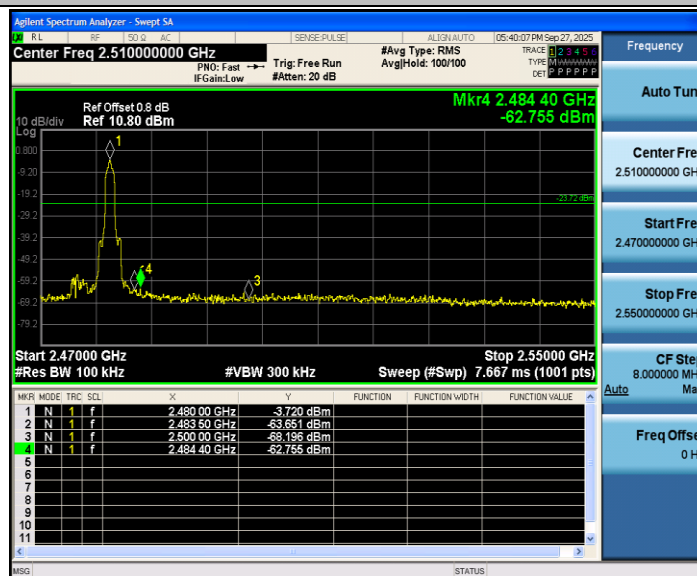
2DH5_Ant1_High_Hop_2480



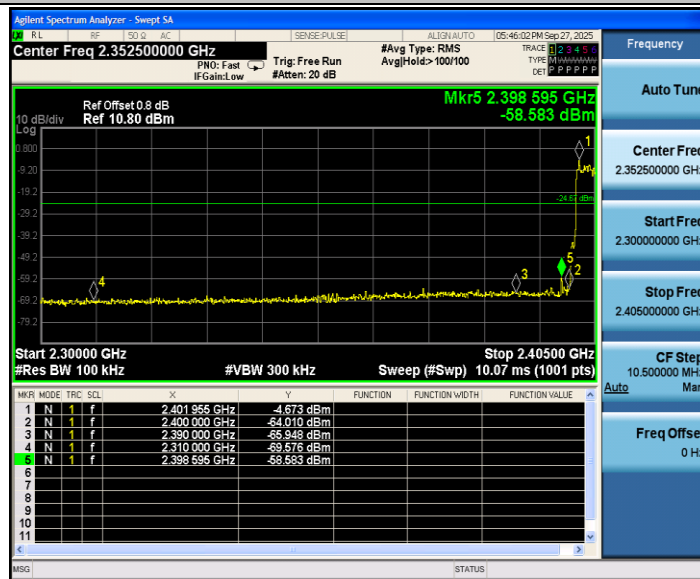
3DH5_Ant1_Low_2402



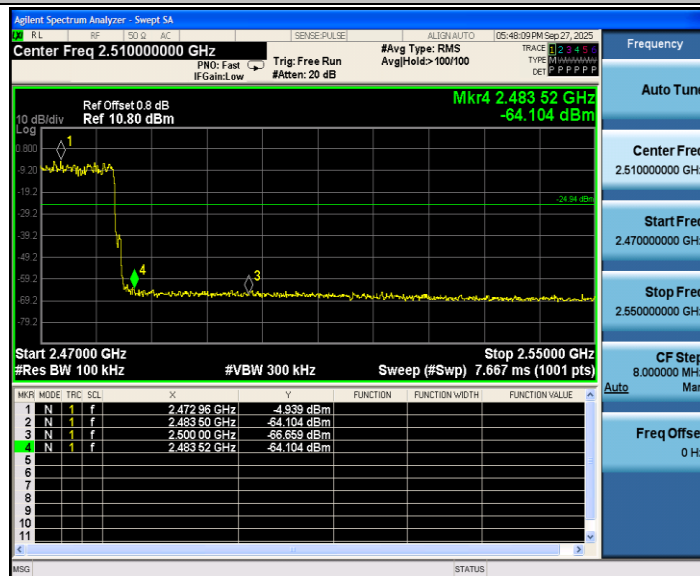
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

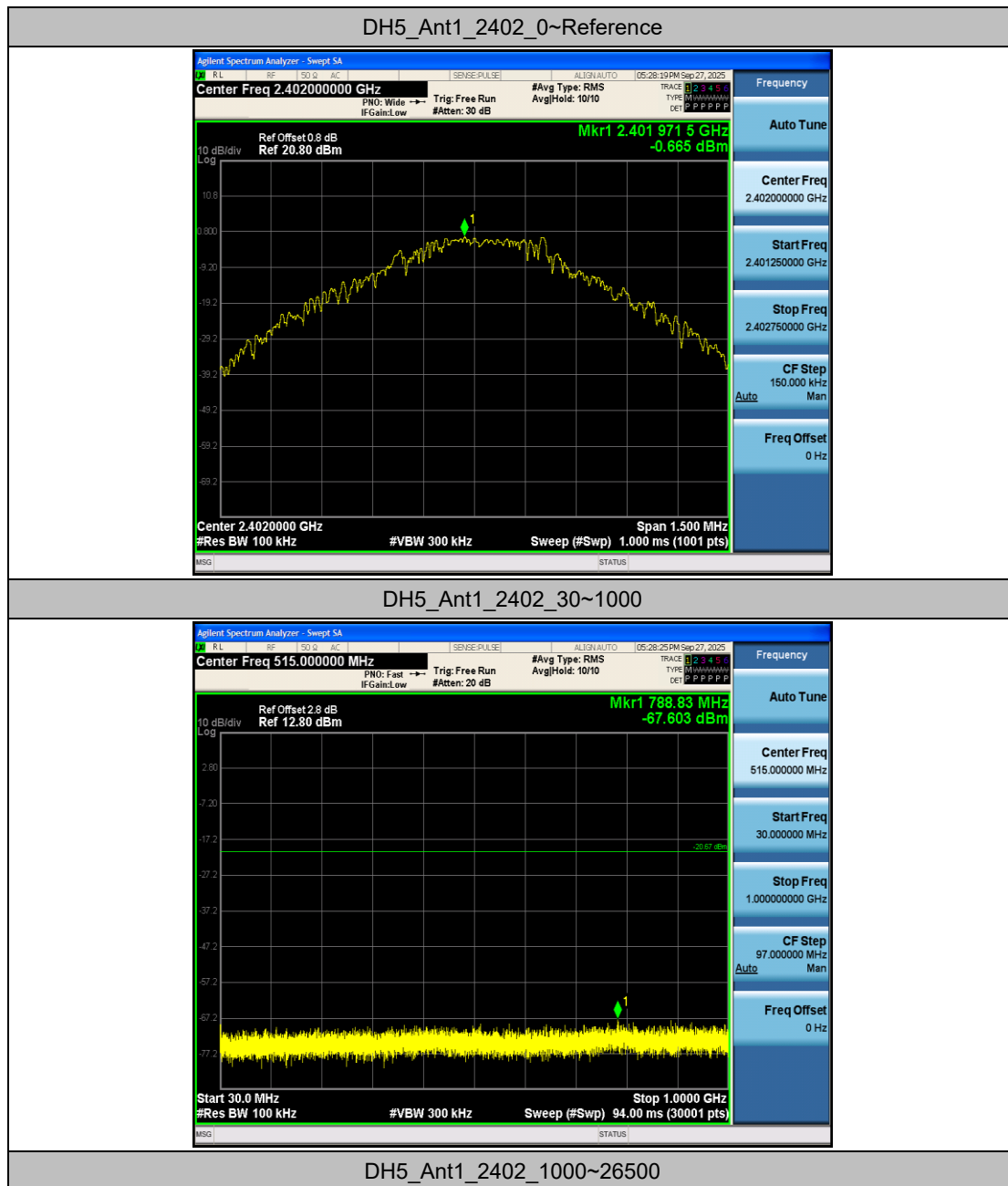


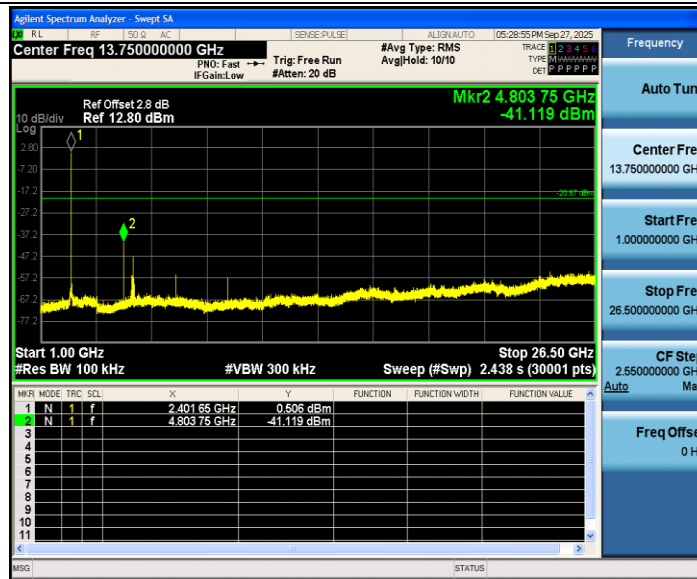
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-67.6	≤-20.67	PASS
			1000~26500	-0.67	-41.12	≤-20.67	PASS
		2441	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-66.9	≤-21.11	PASS
			1000~26500	-1.11	-43.87	≤-21.11	PASS
		2480	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-67.63	≤-20.88	PASS
			1000~26500	-0.88	-43.16	≤-20.88	PASS
2DH5	Ant1	2402	Reference	-5.88	-5.88	---	PASS
			30~1000	-5.88	-67.7	≤-25.88	PASS
			1000~26500	-5.88	-50.51	≤-25.88	PASS
		2441	Reference	-6.14	-6.14	---	PASS
			30~1000	-6.14	-67.49	≤-26.14	PASS
			1000~26500	-6.14	-47.87	≤-26.14	PASS
		2480	Reference	-6.54	-6.54	---	PASS
			30~1000	-6.54	-67.79	≤-26.54	PASS
			1000~26500	-6.54	-49.68	≤-26.54	PASS
3DH5	Ant1	2402	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-67.89	≤-25.03	PASS
			1000~26500	-5.03	-47.51	≤-25.03	PASS
		2441	Reference	-6.93	-6.93	---	PASS
			30~1000	-6.93	-42.12	≤-26.93	PASS
			1000~26500	-6.93	-45.89	≤-26.93	PASS
		2480	Reference	-5.26	-5.26	---	PASS
			30~1000	-5.26	-67.74	≤-25.26	PASS
			1000~26500	-5.26	-44.56	≤-25.26	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

