

Appendix RF Test Data for BT

FCC ID : 2BQGL-WZY-P012

Company : Shenzhen Wuzhuangyuan Technology Co., LTD

EUT : Dance carpe

Model Number : WZY-P012

Report No. : CTA25090100302

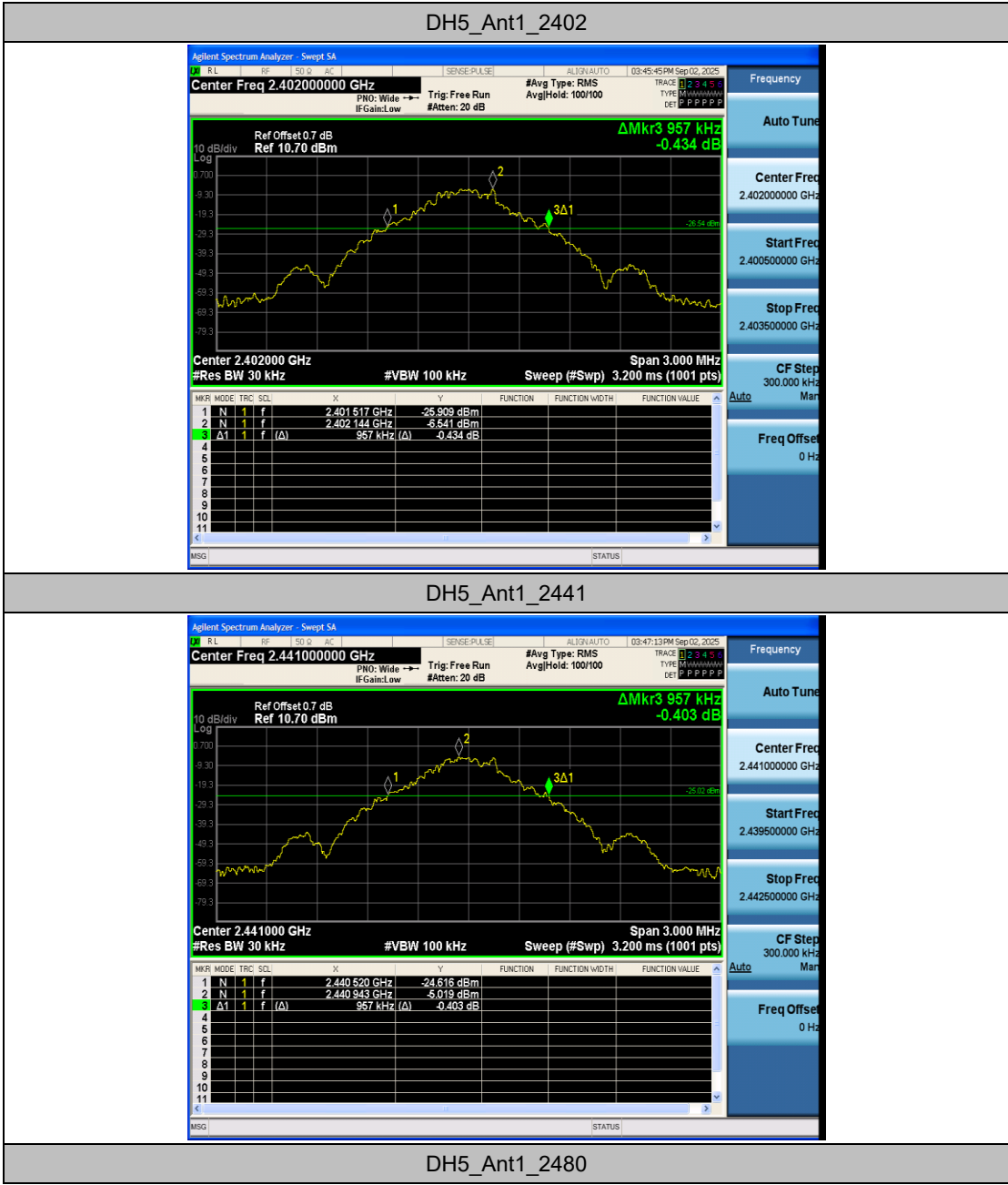
Reviewed By : Eric Wang

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	2401.517	2402.474	---	---
		2441	0.957	2440.520	2441.477	---	---
		2480	0.948	2479.520	2480.468	---	---
2DH5	Ant1	2402	1.506	2401.232	2402.738	---	---
		2441	1.488	2440.250	2441.738	---	---
		2480	1.479	2479.223	2480.702	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

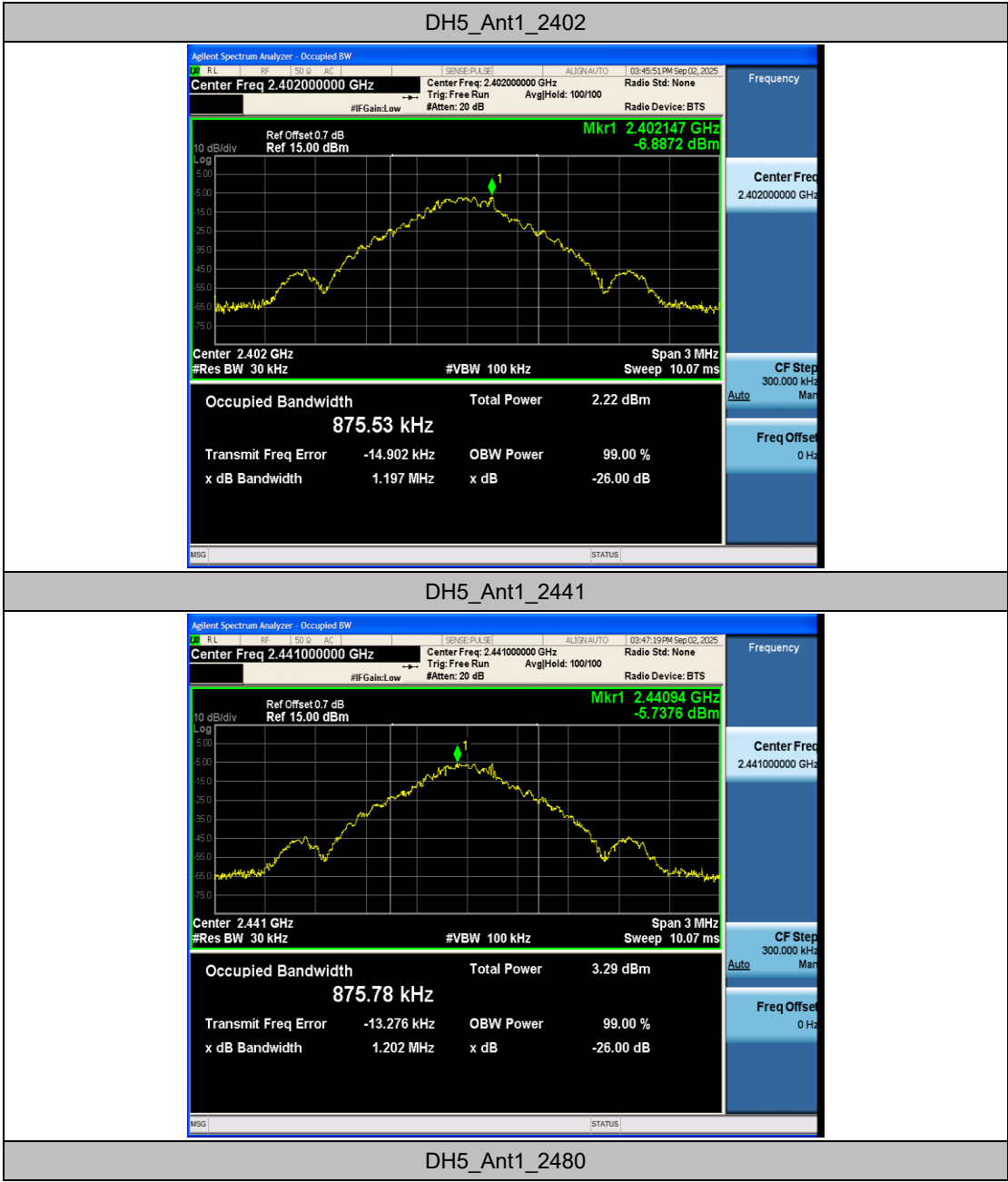


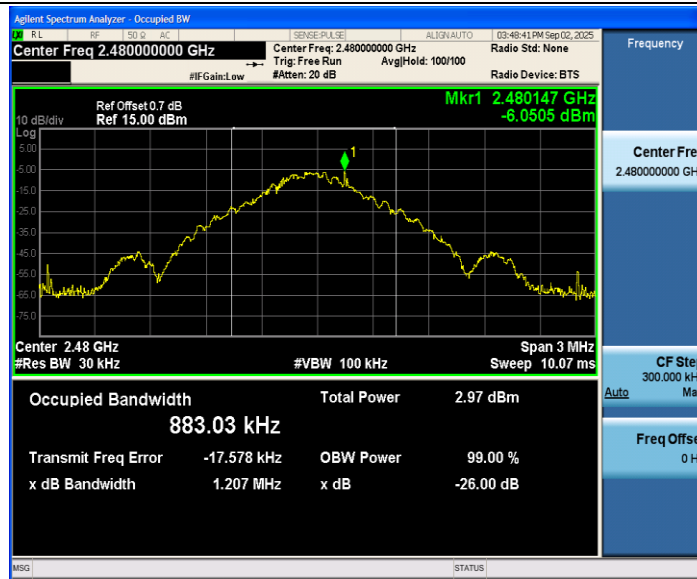
Appendix B: Occupied Channel Bandwidth

Test Result

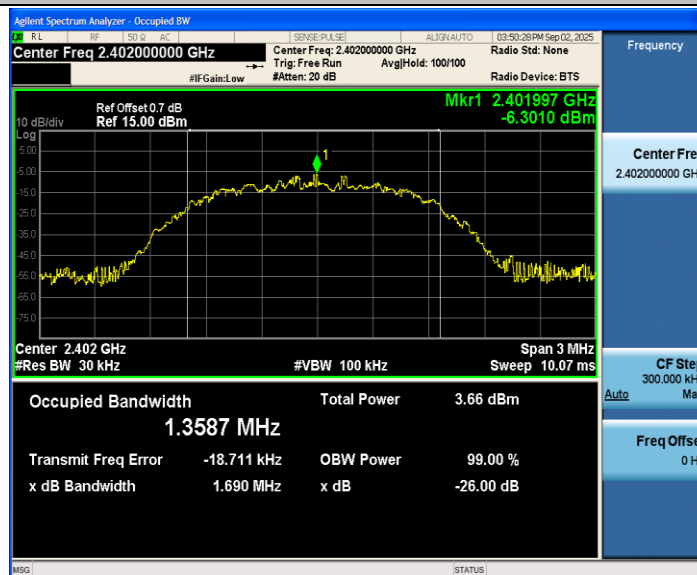
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87553	2401.5473	2402.4229	---	---
		2441	0.87578	2440.5488	2441.4246	---	---
		2480	0.88303	2479.5409	2480.4239	---	---
2DH5	Ant1	2402	1.3587	2401.3019	2402.6606	---	---
		2441	1.3675	2440.2964	2441.6639	---	---
		2480	1.3626	2479.2969	2480.6595	---	---

Test Graphs

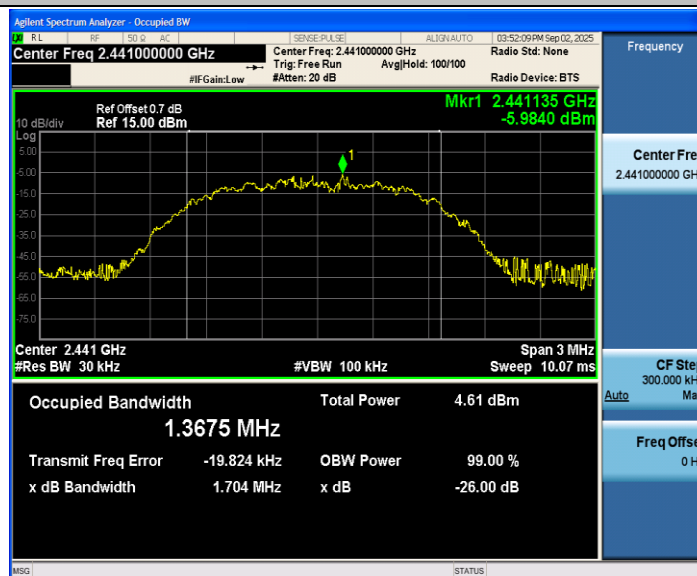




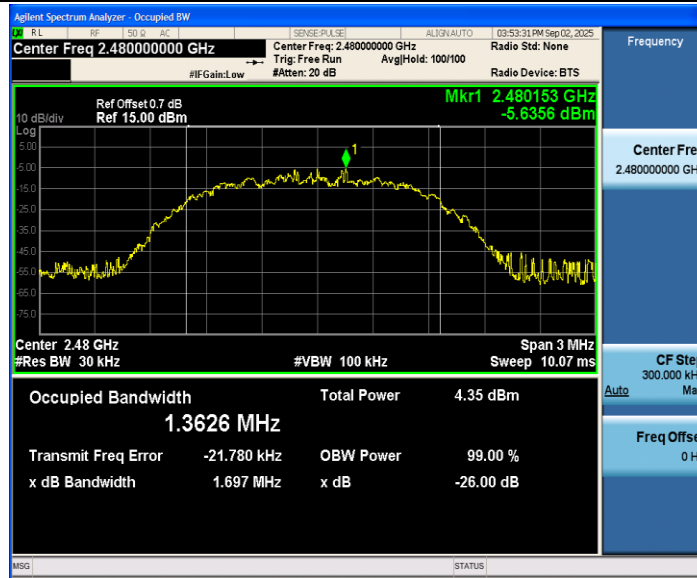
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_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	-4.15	≤20.97	PASS
		2441	-2.87	≤20.97	PASS
		2480	-3.13	≤20.97	PASS
2DH5	Ant1	2402	-0.47	≤20.97	PASS
		2441	0.58	≤20.97	PASS
		2480	0.29	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.332	≥ 0.957	PASS
2DH5	Ant1	Hop	1.304	≥ 1.004	PASS

Test Graphs

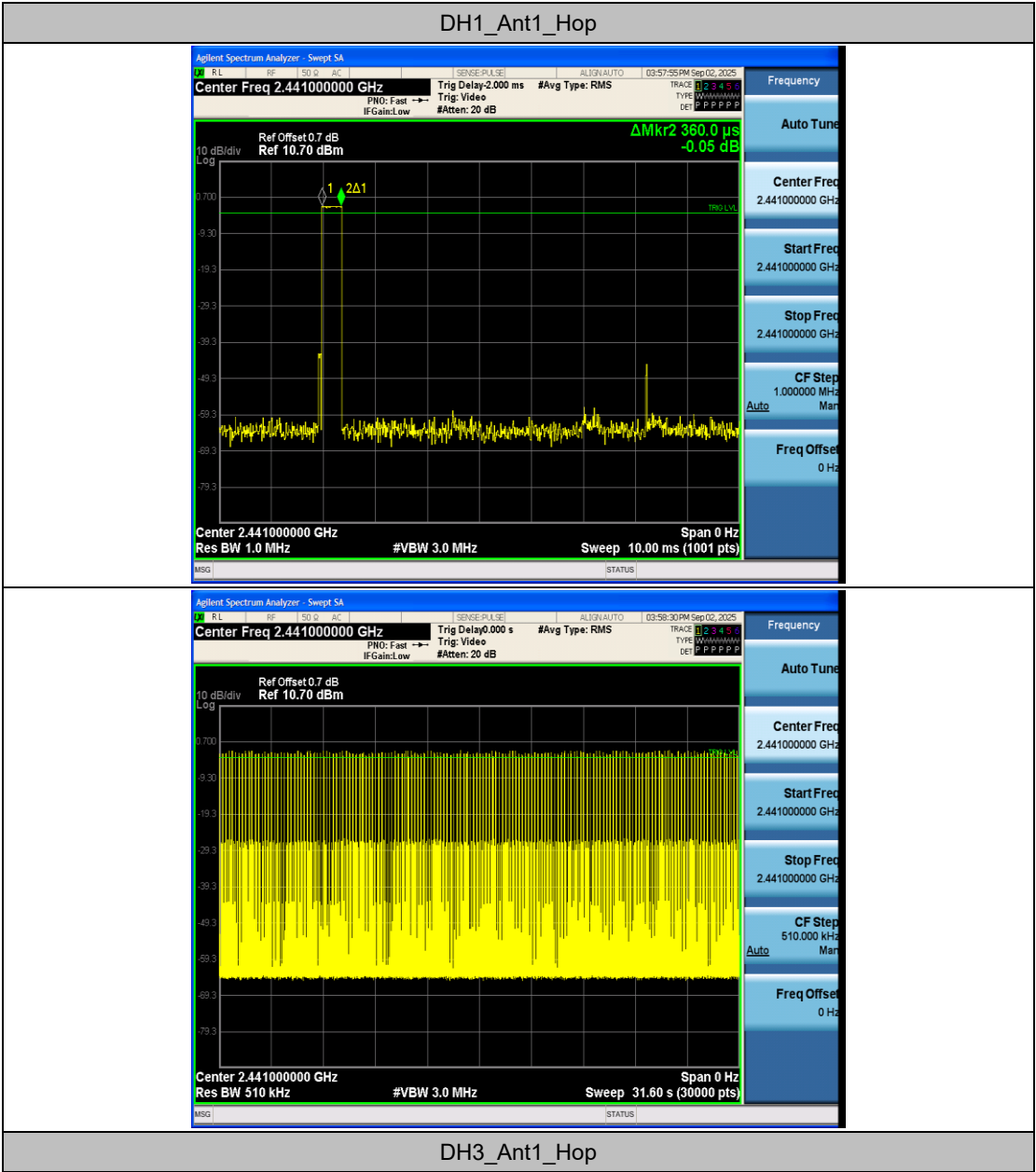


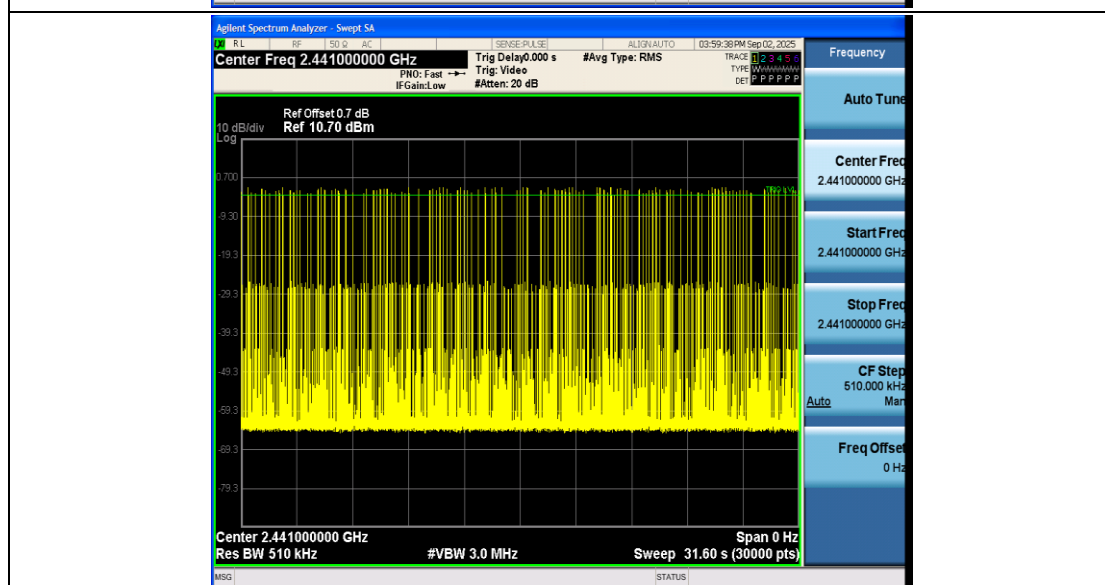
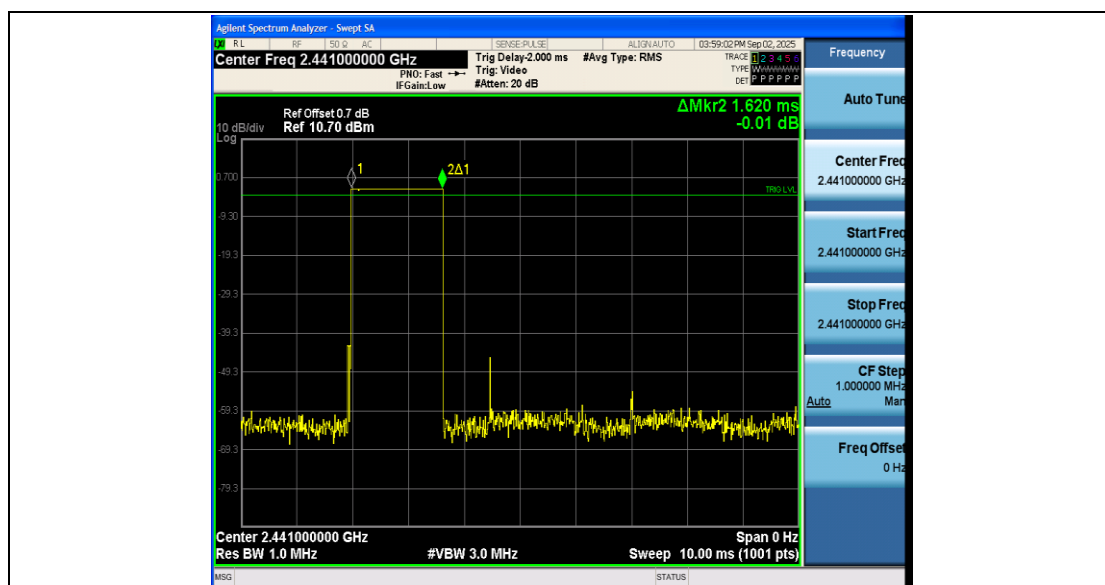
Appendix E: Time of occupancy

Test Result

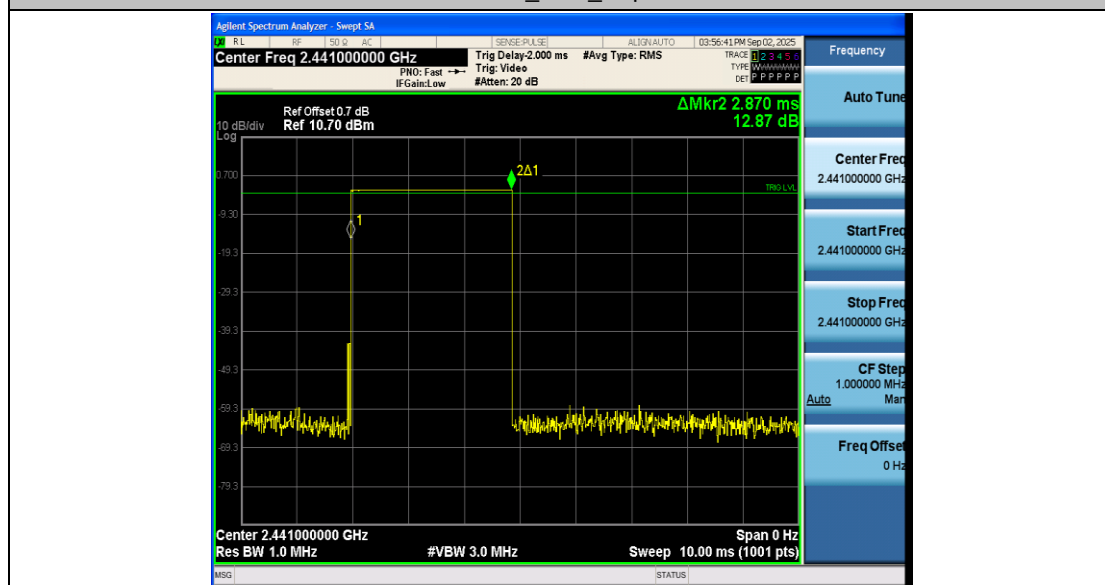
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	320	0.115	≤0.4	PASS
DH3	Ant1	Hop	1.620	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.870	102	0.293	≤0.4	PASS
2DH1	Ant1	Hop	0.370	320	0.118	≤0.4	PASS
2DH3	Ant1	Hop	1.620	161	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.870	110	0.316	≤0.4	PASS

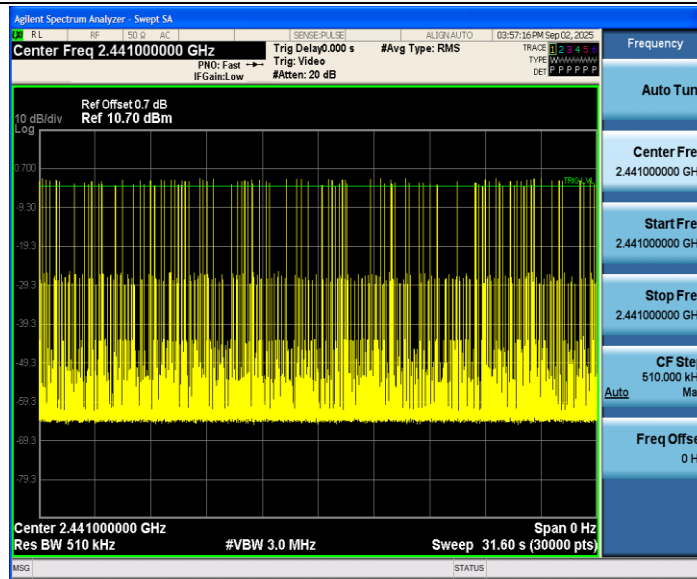
Test Graphs



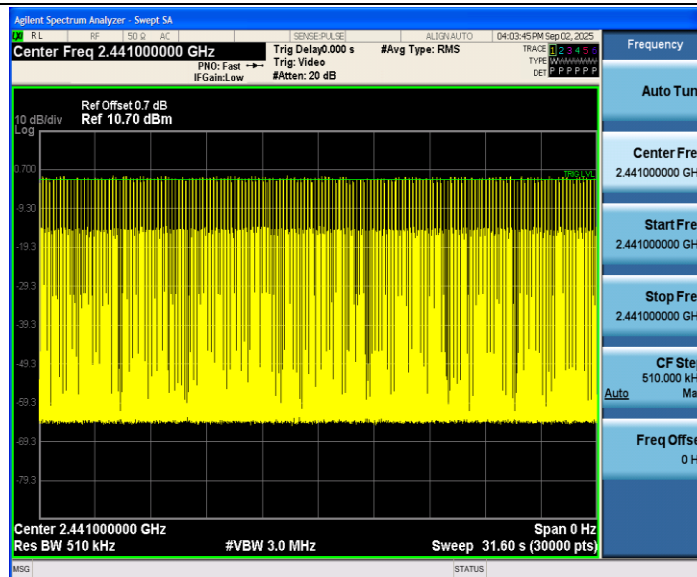
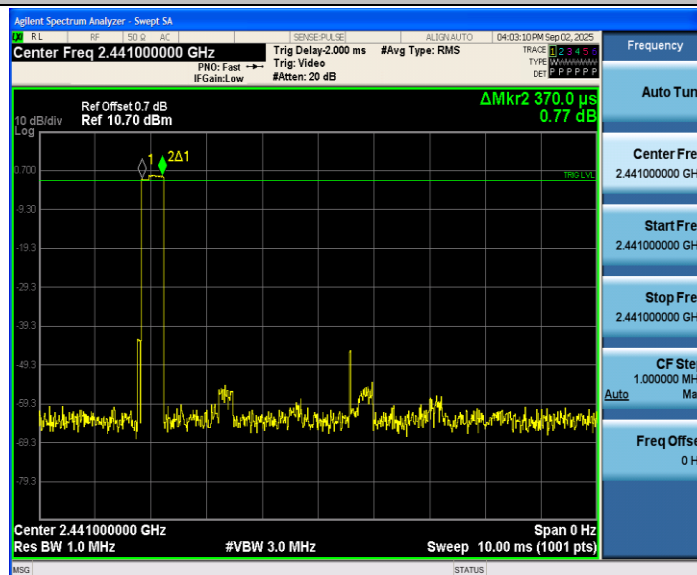


DH5_Ant1_Hop

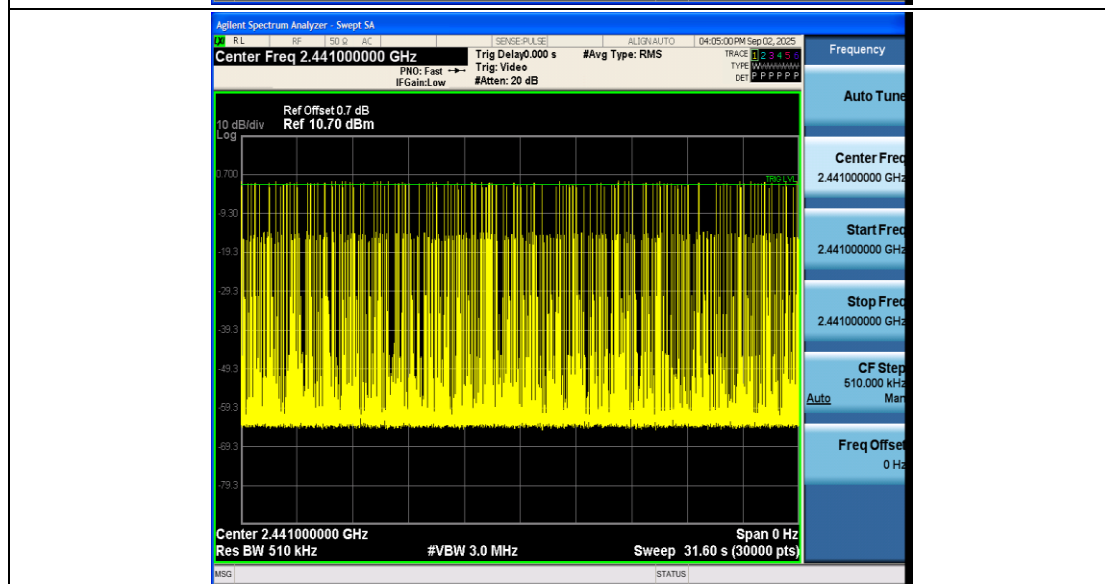
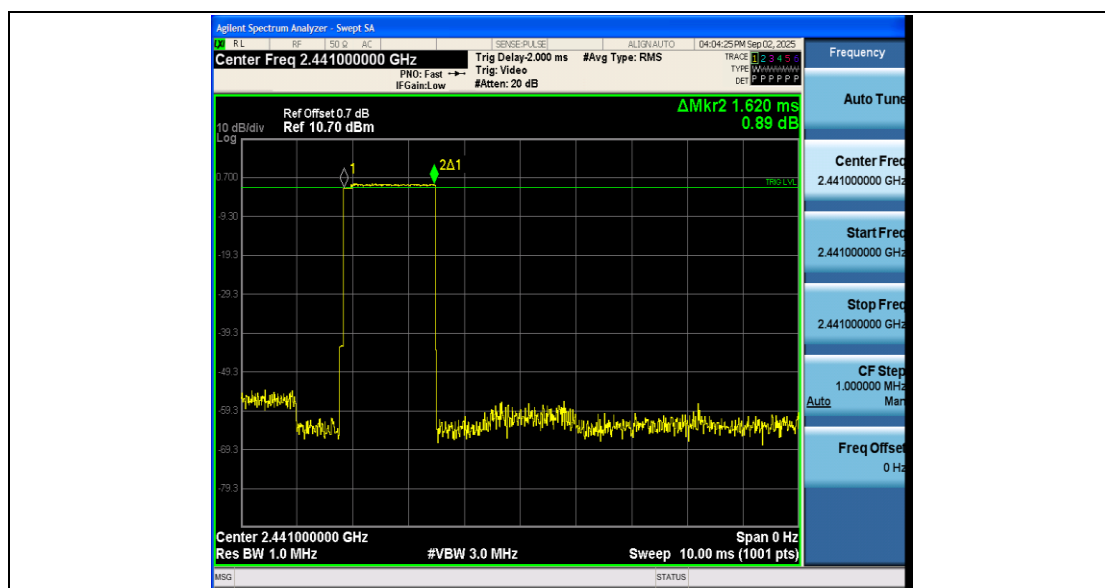




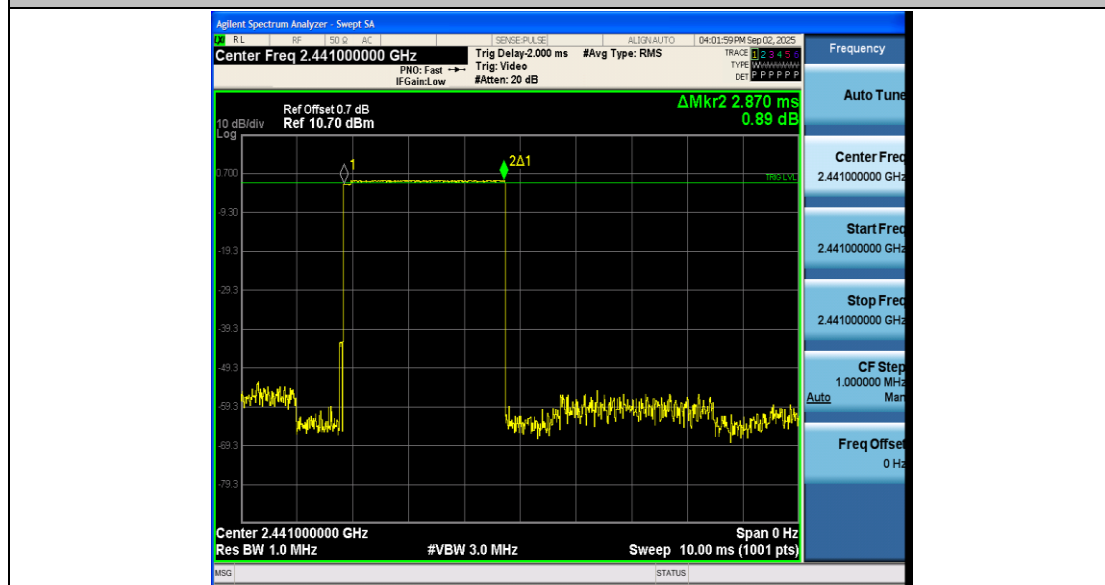
2DH1_Ant1_Hop

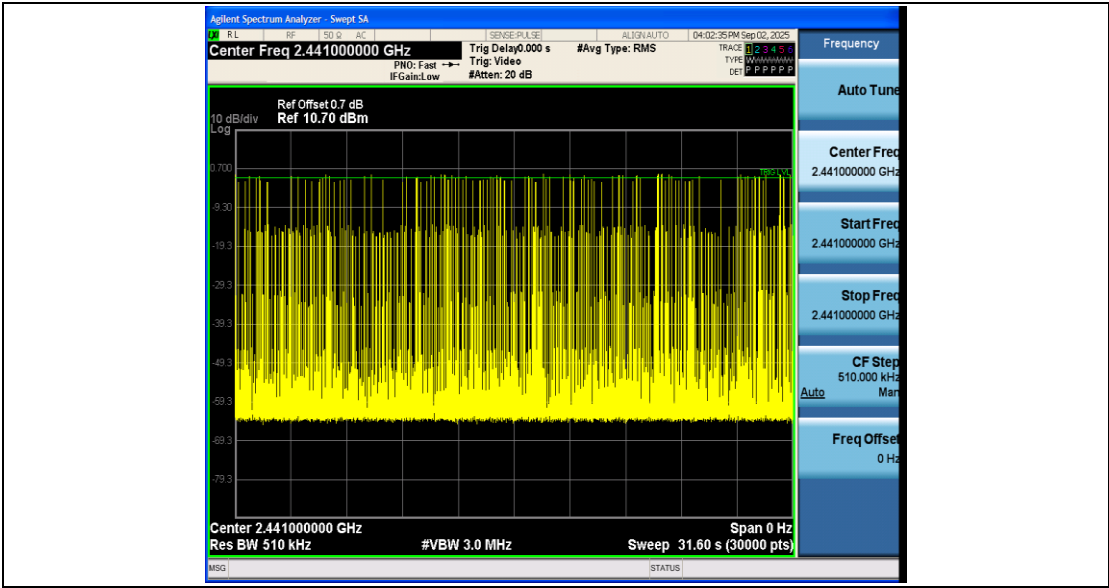


2DH3_Ant1_Hop



2DH5_Ant1_Hop



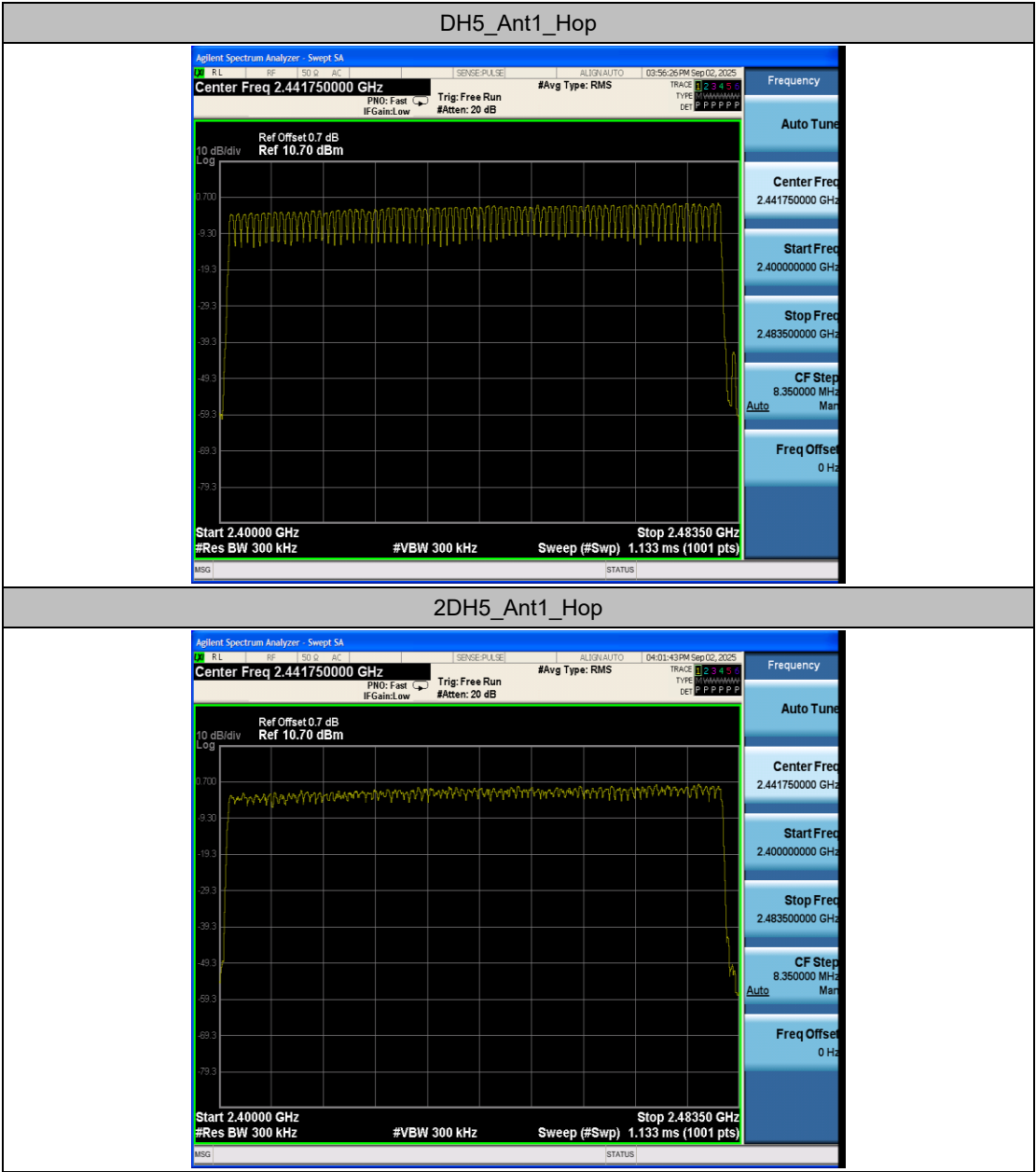


Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

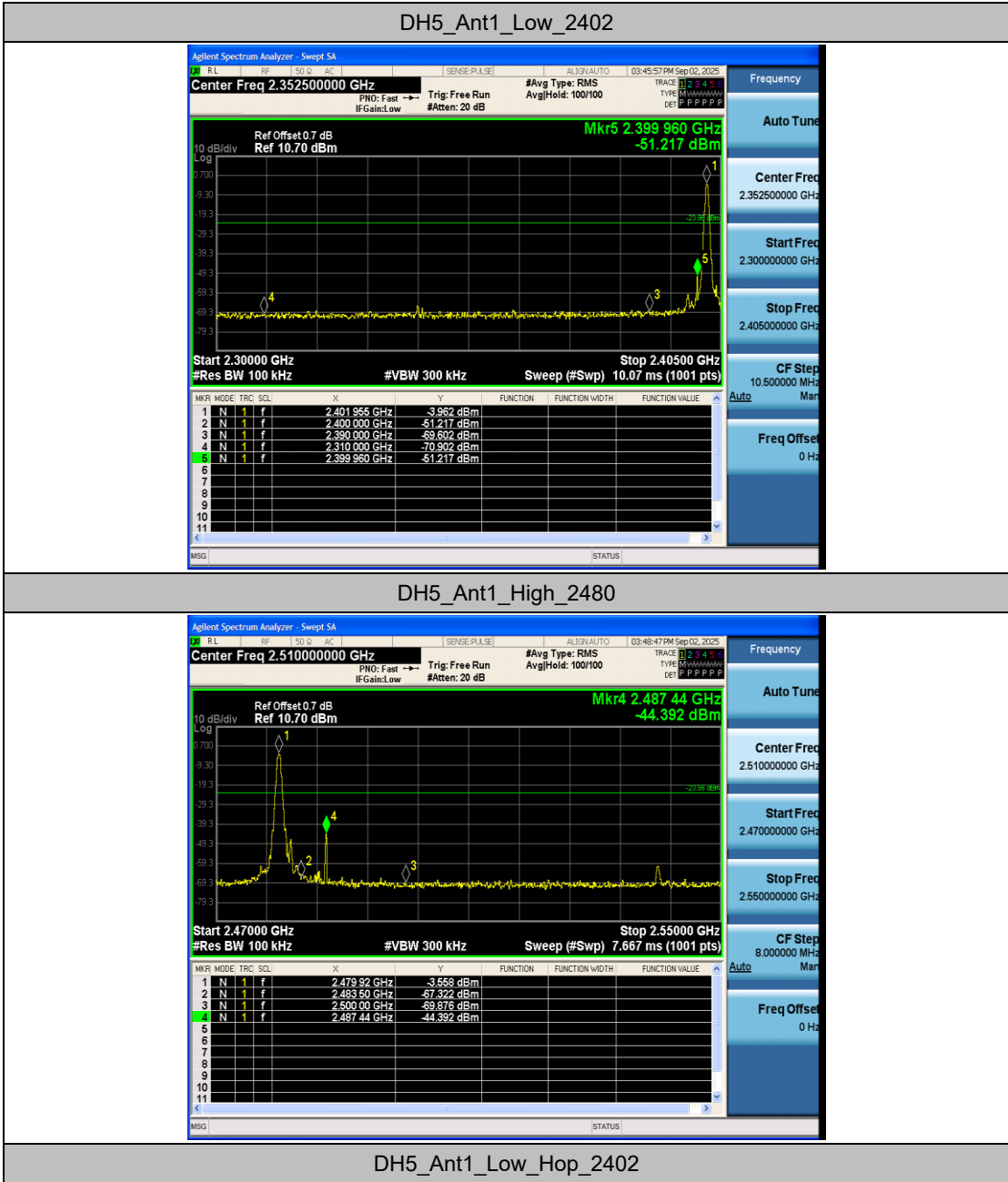


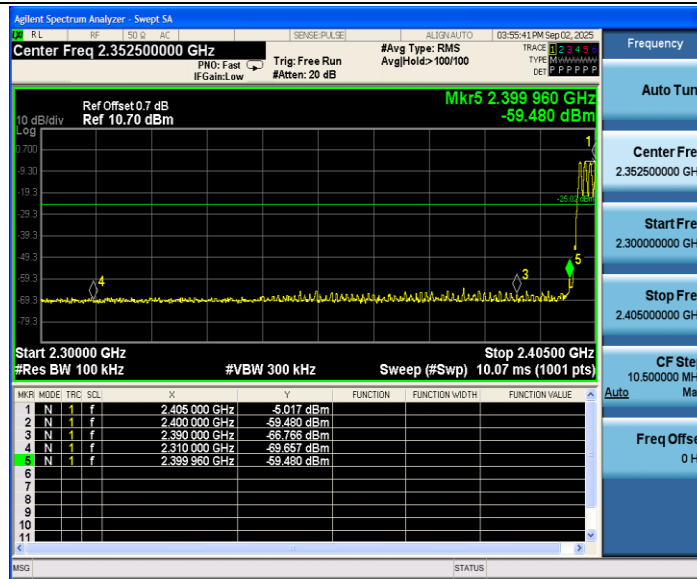
Appendix G: Band edge measurements

Test Result

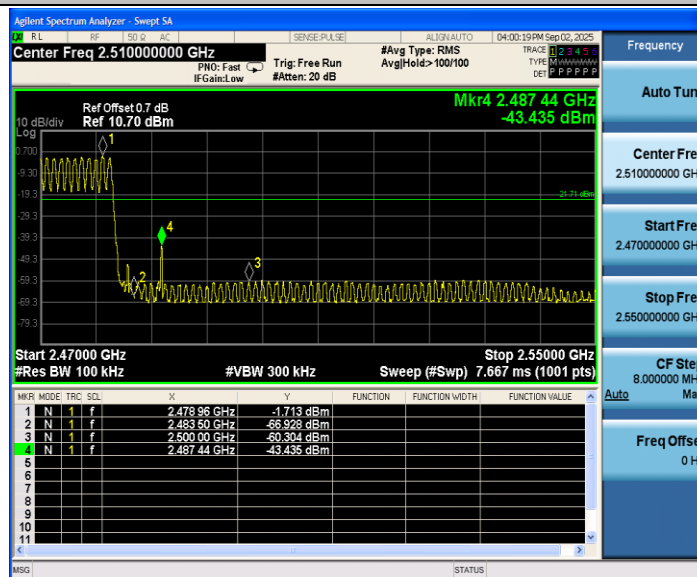
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.96	-51.22	≤-23.96	PASS
		High	2480	-3.56	-44.39	≤-23.56	PASS
		Low	Hop_2402	-5.02	-59.48	≤-25.02	PASS
		High	Hop_2480	-1.71	-43.44	≤-21.71	PASS
2DH5	Ant1	Low	2402	-2.83	-49.5	≤-22.83	PASS
		High	2480	-2.72	-58.74	≤-22.72	PASS
		Low	Hop_2402	-4.96	-54.37	≤-24.96	PASS
		High	Hop_2480	-1.28	-59.26	≤-21.28	PASS

Test Graphs

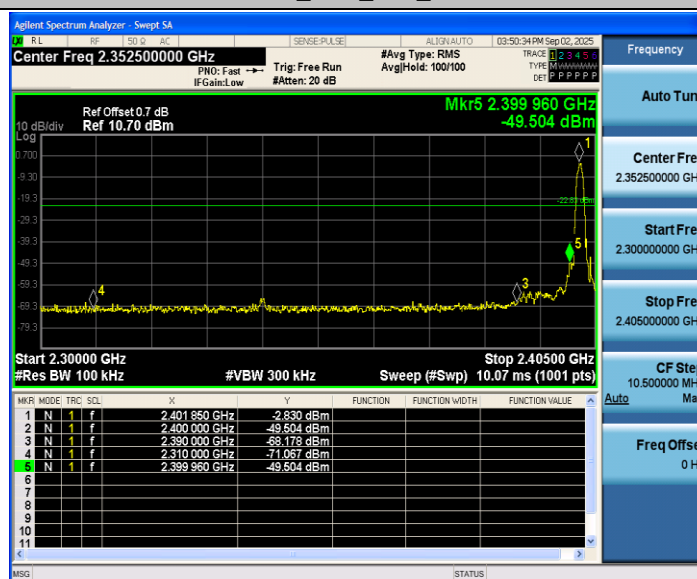




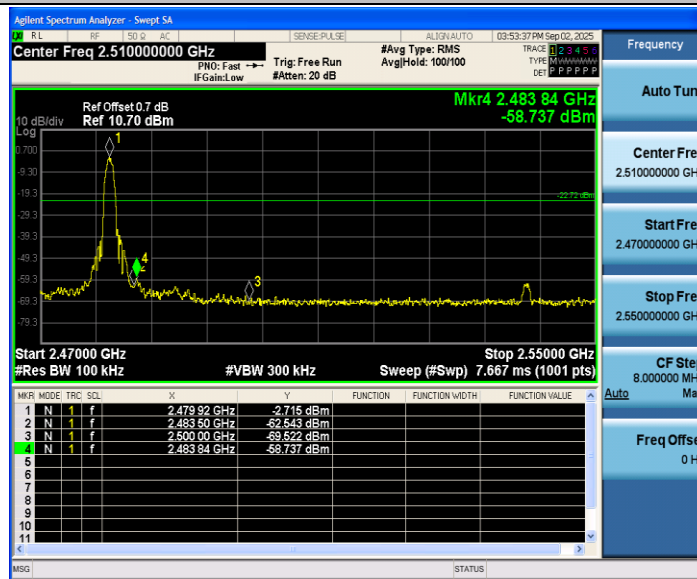
DH5_Ant1_High_Hop_2480



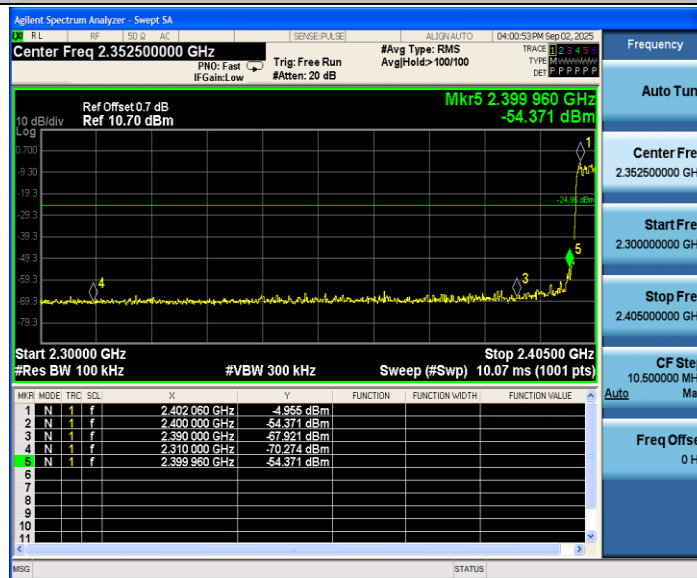
2DH5_Ant1_Low_2402



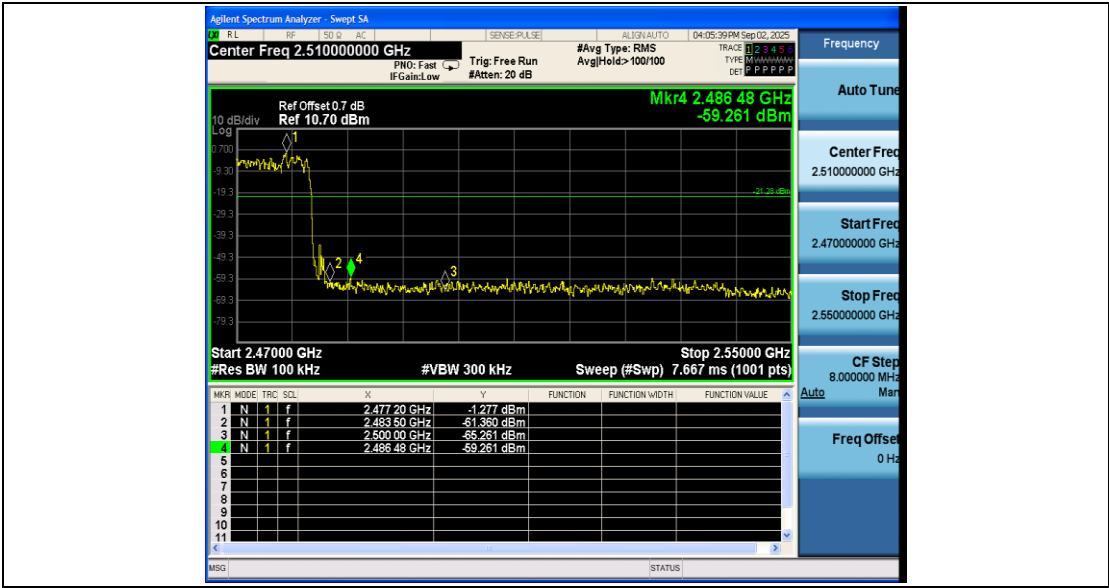
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

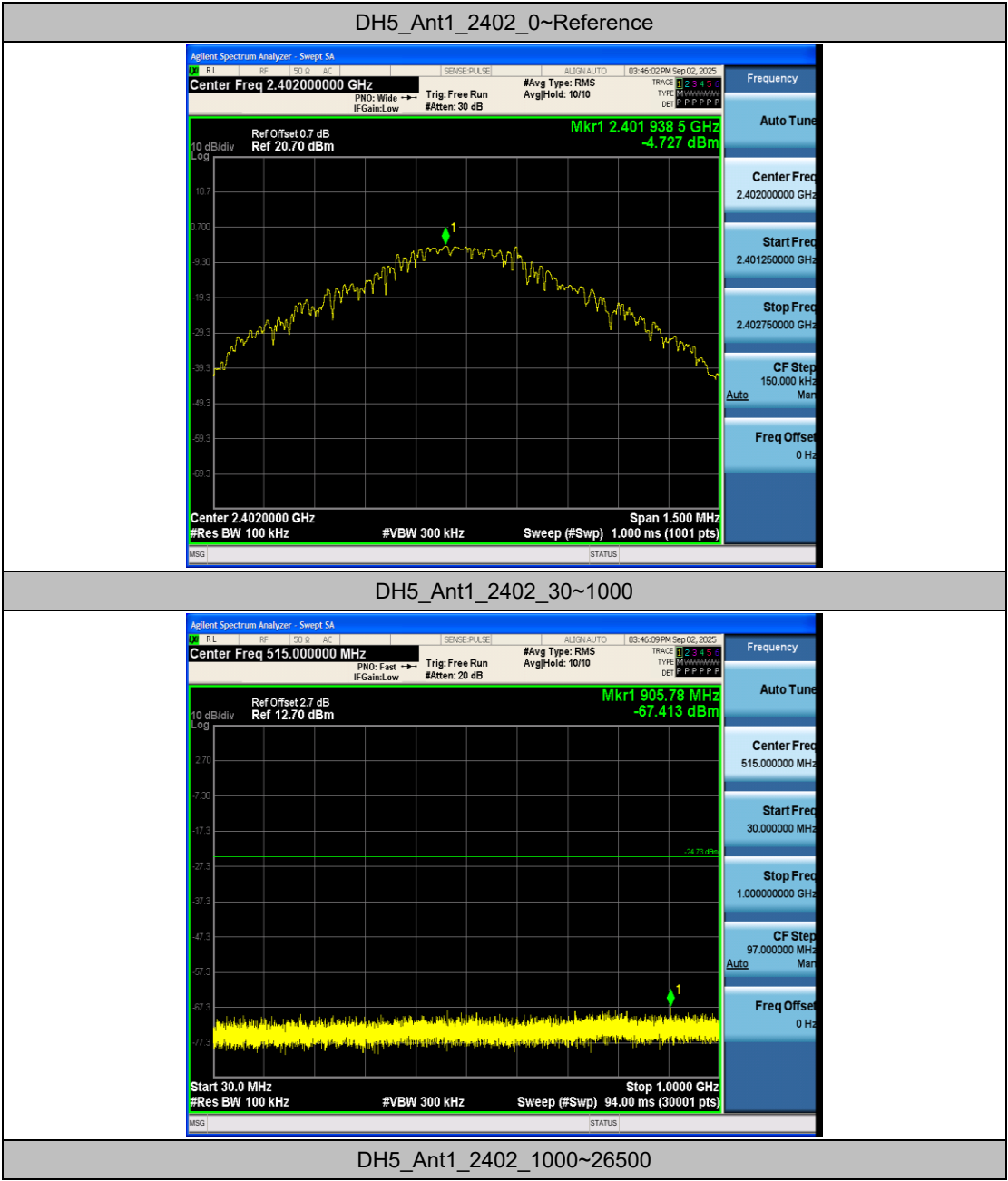


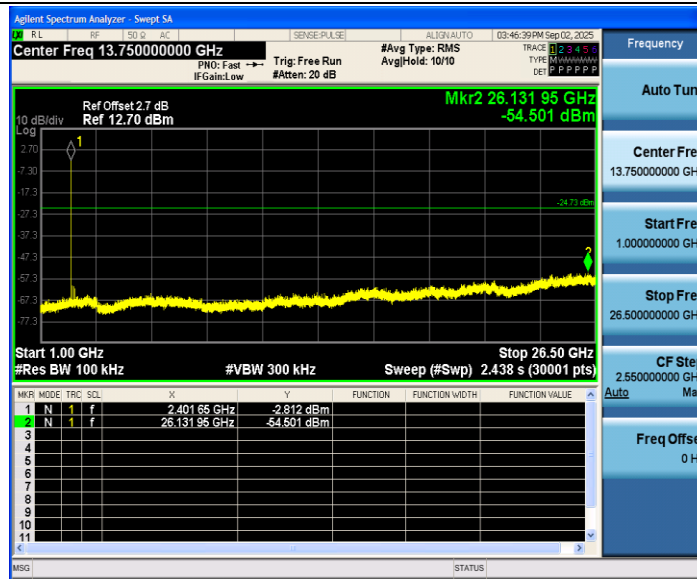
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.73	-4.73	---	PASS
			30~1000	-4.73	-67.41	≤-24.73	PASS
			1000~26500	-4.73	-54.5	≤-24.73	PASS
		2441	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-67.01	≤-23.24	PASS
			1000~26500	-3.24	-55.11	≤-23.24	PASS
		2480	Reference	-3.89	-3.89	---	PASS
			30~1000	-3.89	-67.72	≤-23.89	PASS
			1000~26500	-3.89	-54.96	≤-23.89	PASS
2DH5	Ant1	2402	Reference	-3.98	-3.98	---	PASS
			30~1000	-3.98	-67.59	≤-23.98	PASS
			1000~26500	-3.98	-54.31	≤-23.98	PASS
		2441	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-67.27	≤-22.6	PASS
			1000~26500	-2.60	-54.64	≤-22.6	PASS
		2480	Reference	-4.92	-4.92	---	PASS
			30~1000	-4.92	-67.83	≤-24.92	PASS
			1000~26500	-4.92	-54.25	≤-24.92	PASS

Test Graphs

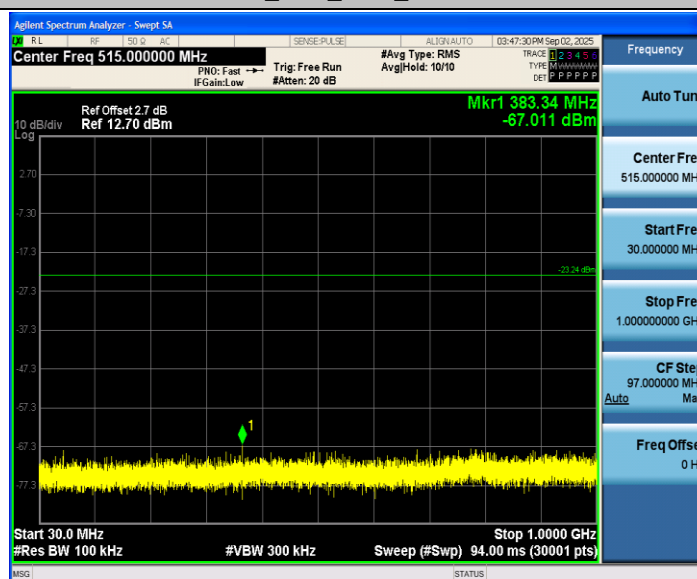




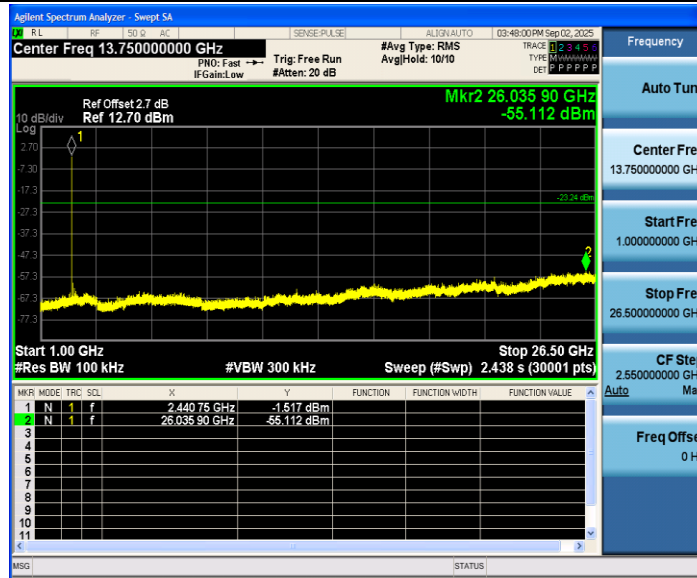
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



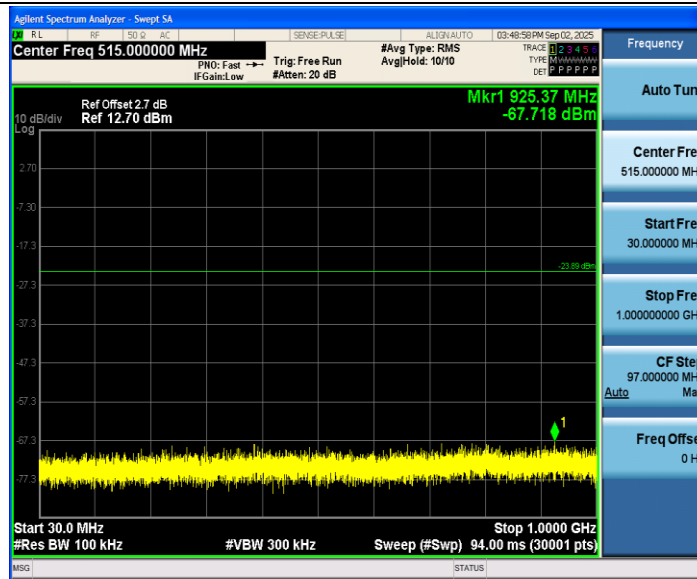
DH5_Ant1_2441_1000~26500



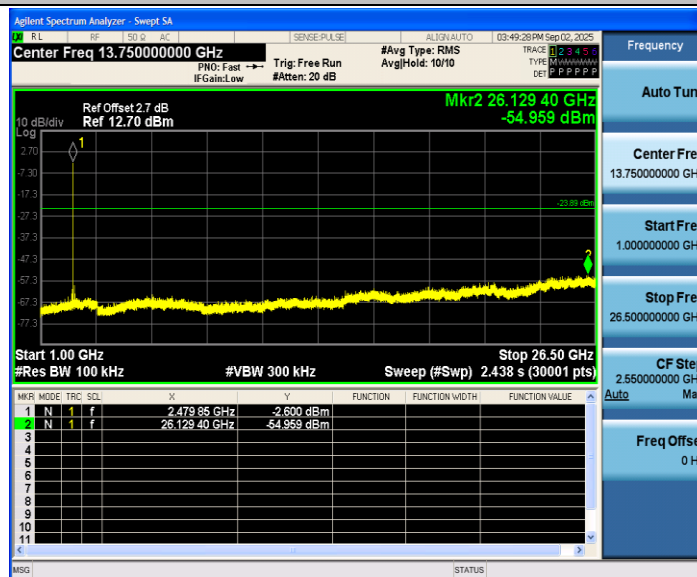
DH5_Ant1_2480_0~Reference



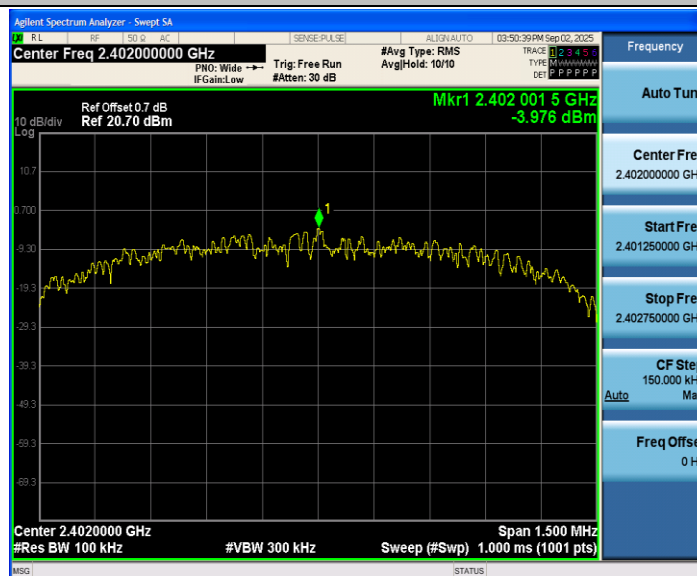
DH5_Ant1_2480_30~1000



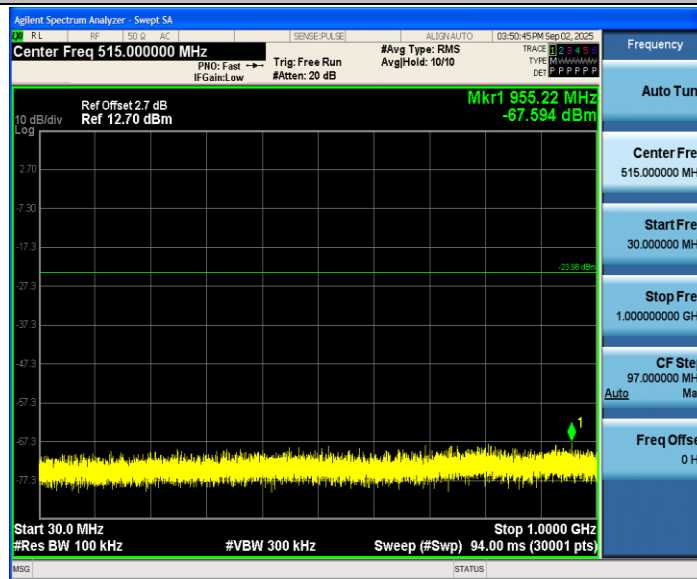
DH5_Ant1_2480_1000~26500



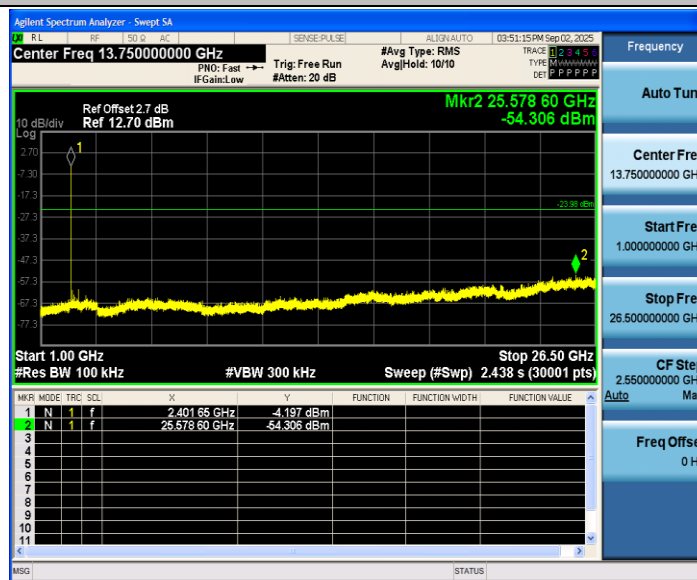
2DH5_Ant1_2402_0~Reference



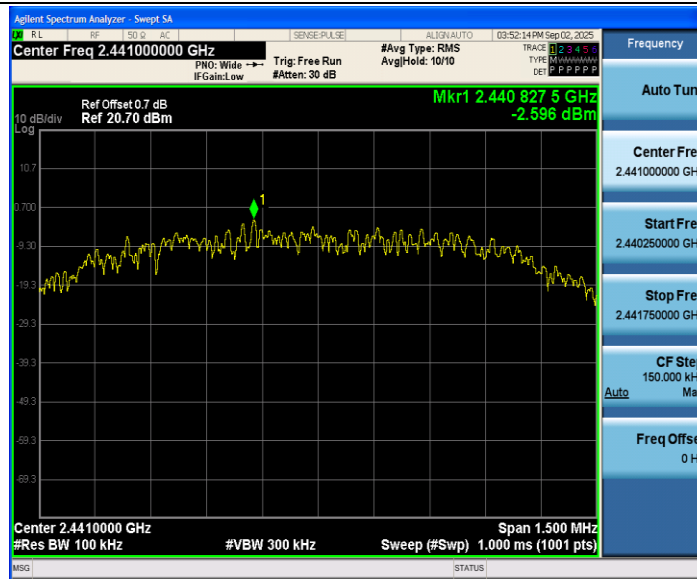
2DH5_Ant1_2402_30~1000



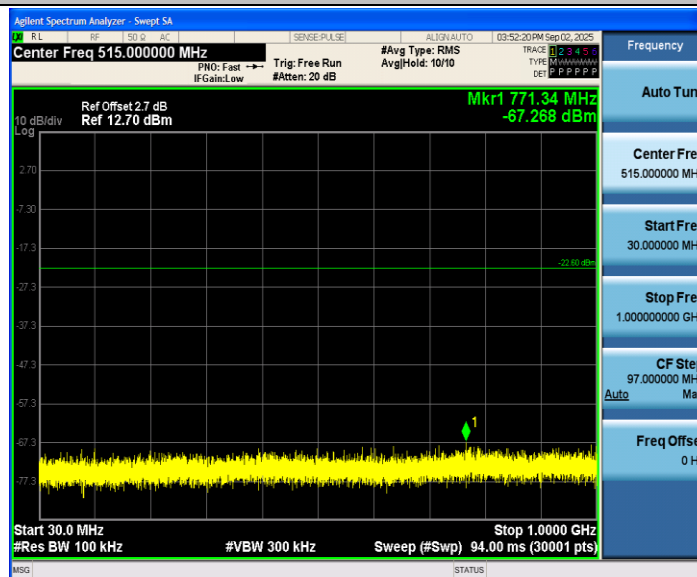
2DH5_Ant1_2402_1000~26500



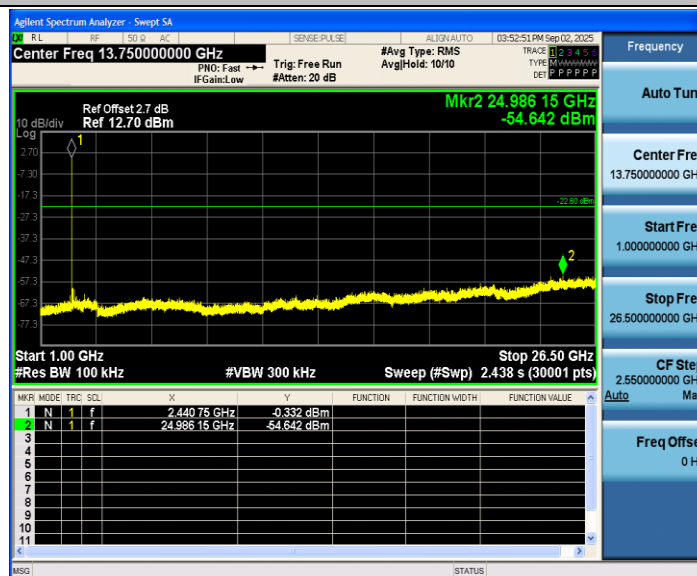
2DH5_Ant1_2441_0~Reference



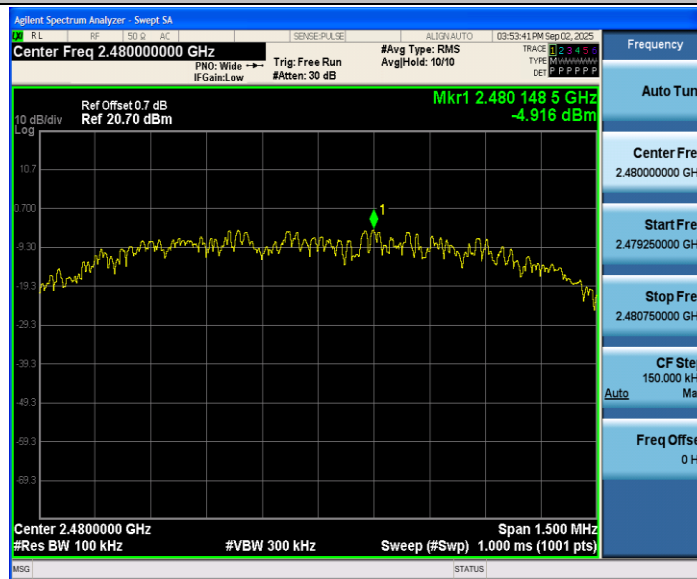
2DH5_Ant1_2441_30~1000



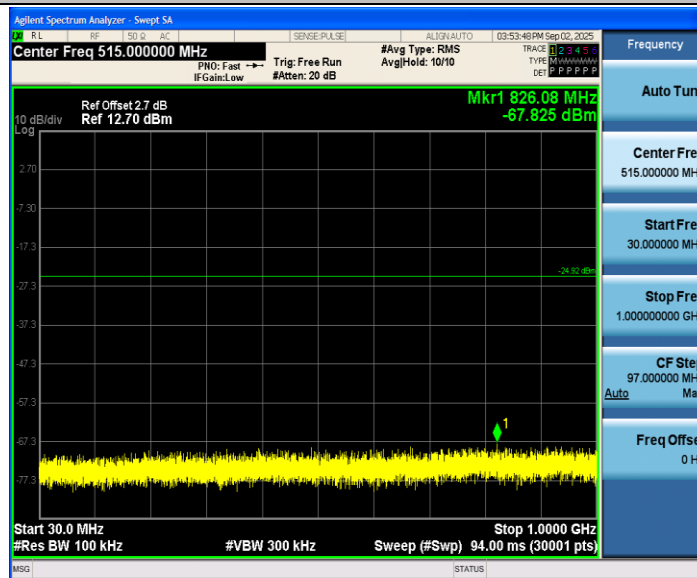
2DH5_Ant1_2441_1000~26500



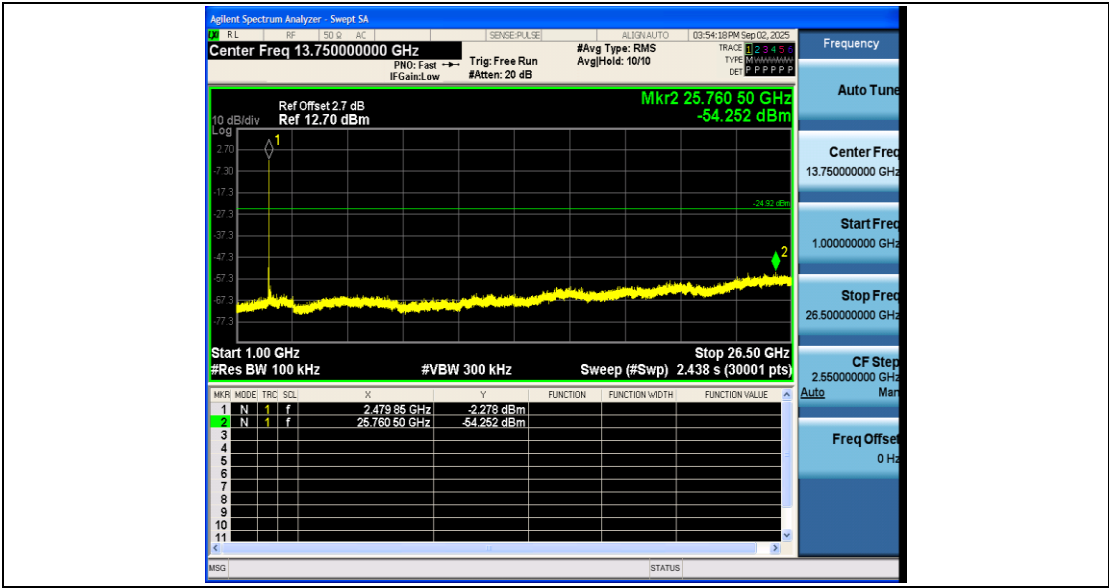
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

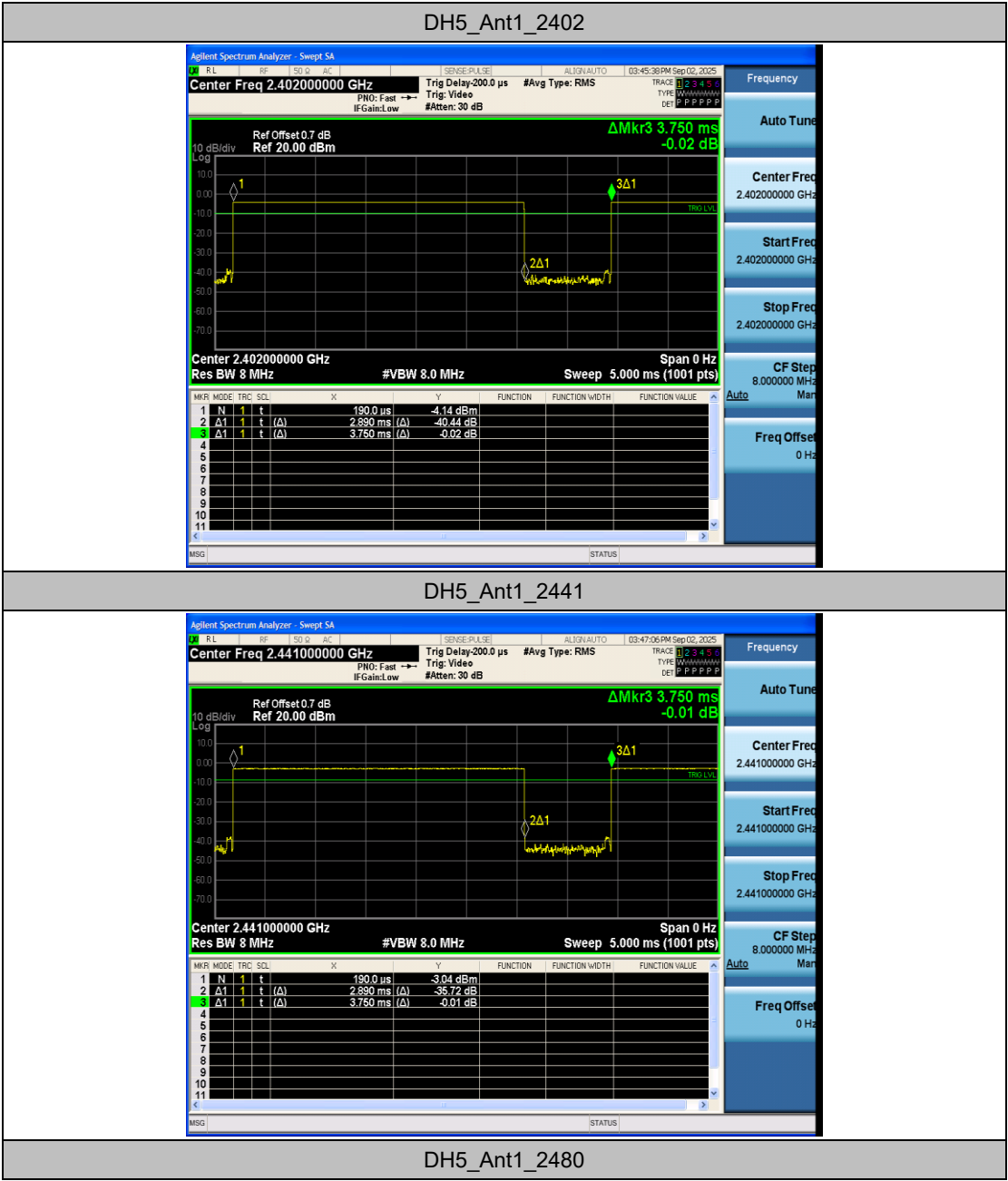


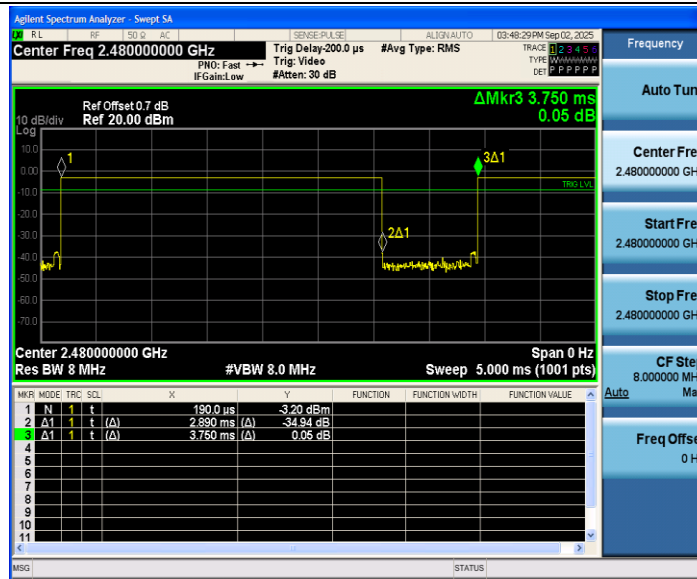
Appendix I: Duty Cycle

Test Result

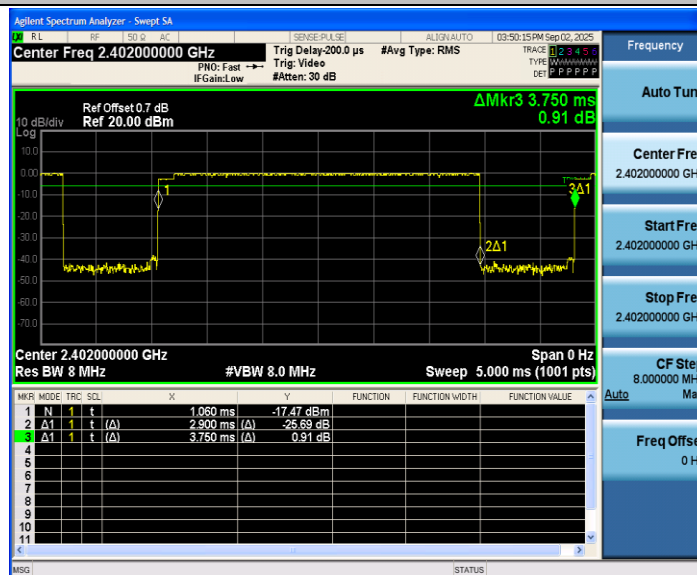
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---
2DH5	Ant1	2402	2.90	3.75	77.33	1.12	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

