

FCC Appendix RF Test Data for BT

FCC ID : 2AOMX-PBX-267

Company : QFX INC

EUT : Party speaker

Model Number : PBX-267

Report No. : CTA26070601301

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	0.936	2401.562	2402.498	---	---
		2441	0.963	2440.541	2441.504	---	---
		2480	0.957	2479.547	2480.504	---	---
2DH5	Ant1	2402	1.278	2401.382	2402.660	---	---
		2441	1.341	2440.337	2441.678	---	---
		2480	1.284	2479.379	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

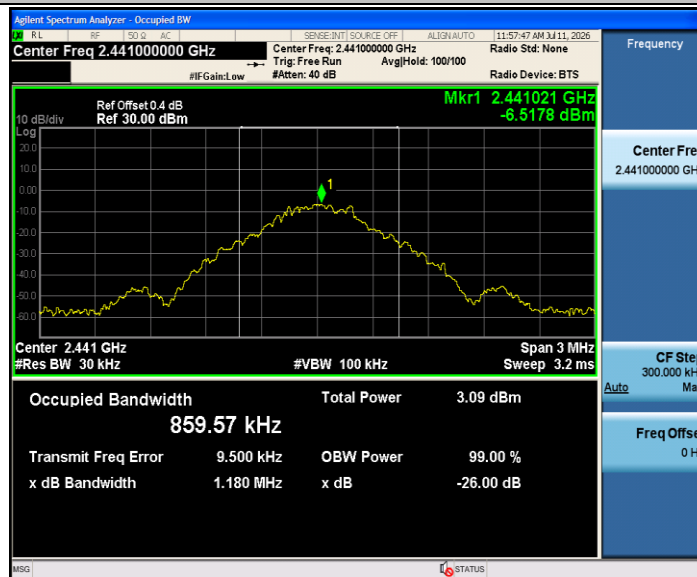
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87133	2401.5755	2402.4469	---	---
		2441	0.85957	2440.5797	2441.4393	---	---
		2480	0.88092	2479.5729	2480.4539	---	---
2DH5	Ant1	2402	1.1791	2401.4218	2402.6009	---	---
		2441	1.2021	2440.4111	2441.6132	---	---
		2480	1.1862	2479.4184	2480.6046	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



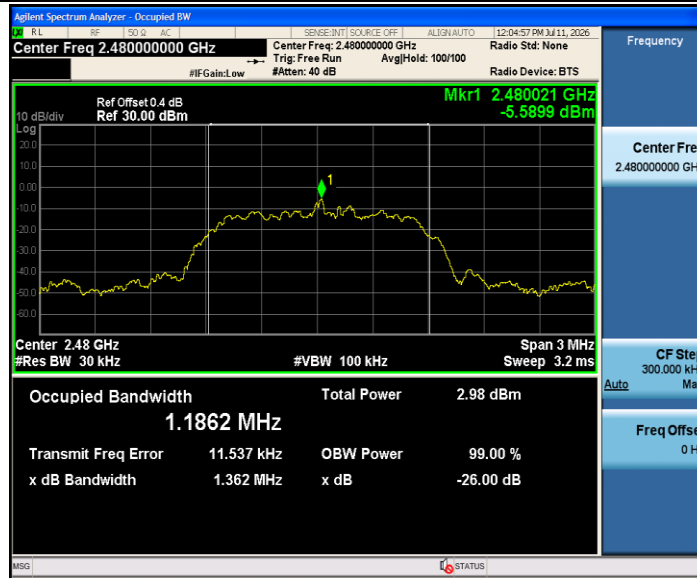
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

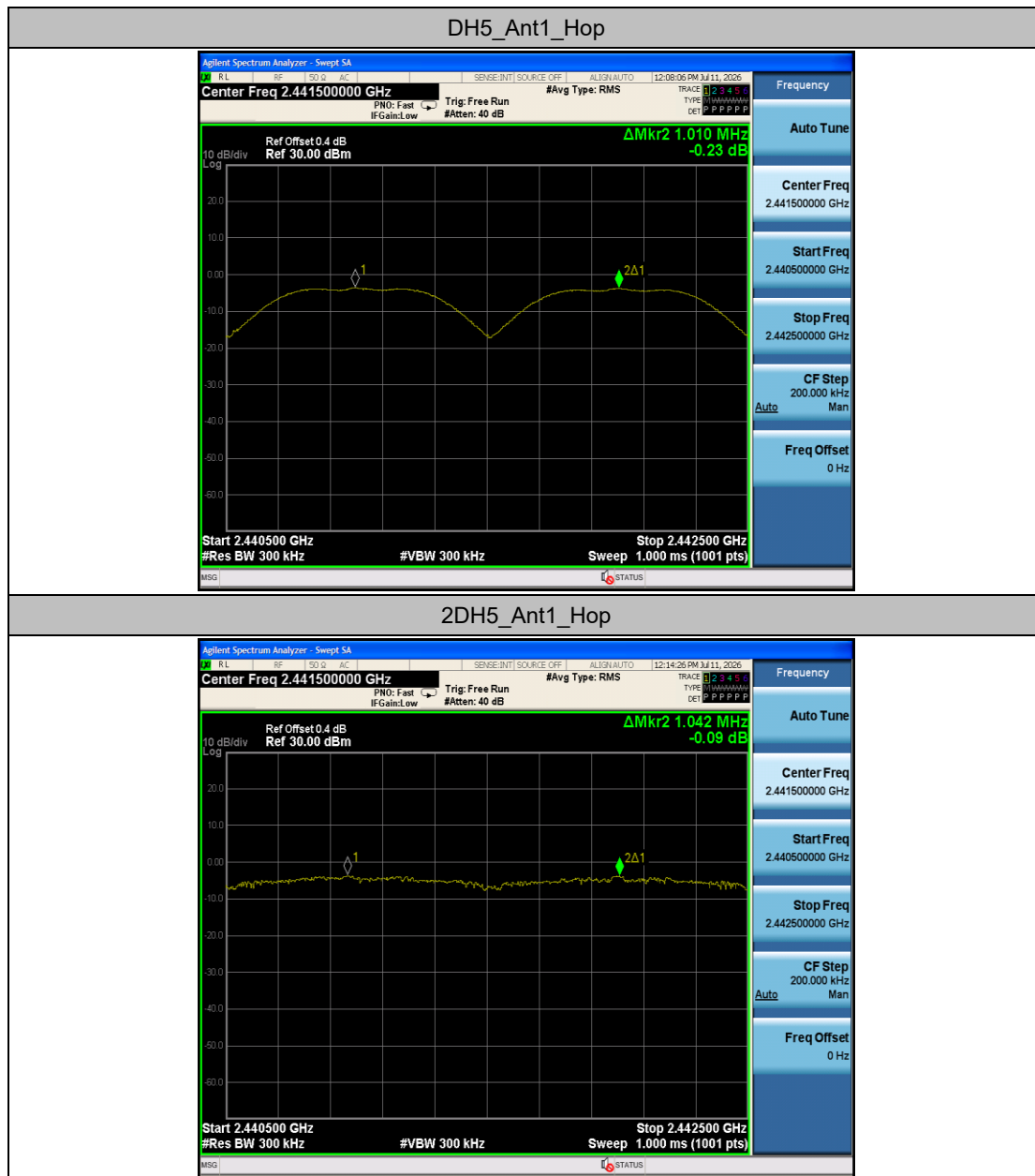
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.40	≤20.97	PASS
		2441	-3.41	≤20.97	PASS
		2480	-3.68	≤20.97	PASS
2DH5	Ant1	2402	-0.82	≤20.97	PASS
		2441	-0.84	≤20.97	PASS
		2480	-1.03	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥ 0.963	PASS
2DH5	Ant1	Hop	1.042	≥ 0.894	PASS

Test Graphs

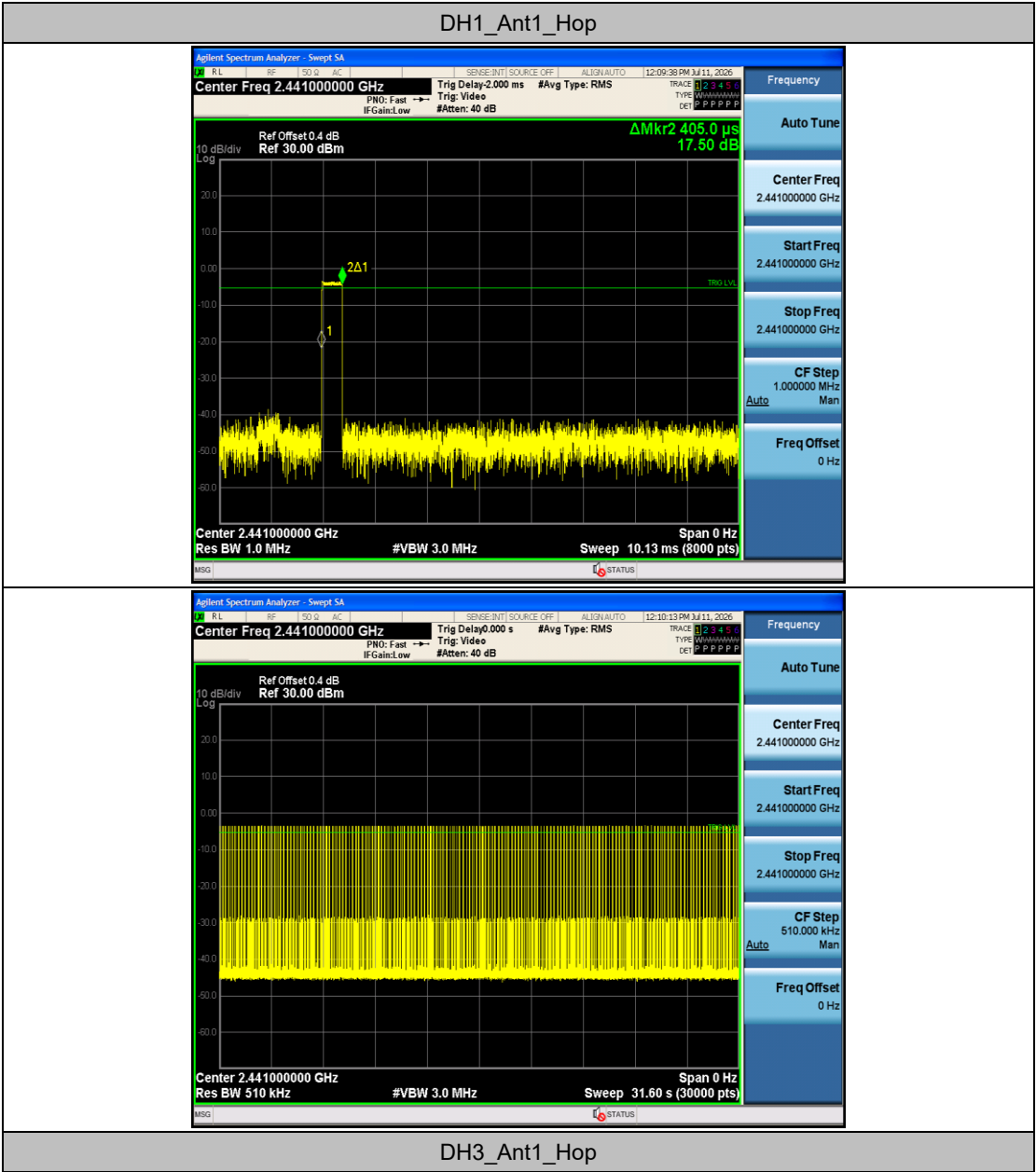


Appendix E: Time of occupancy

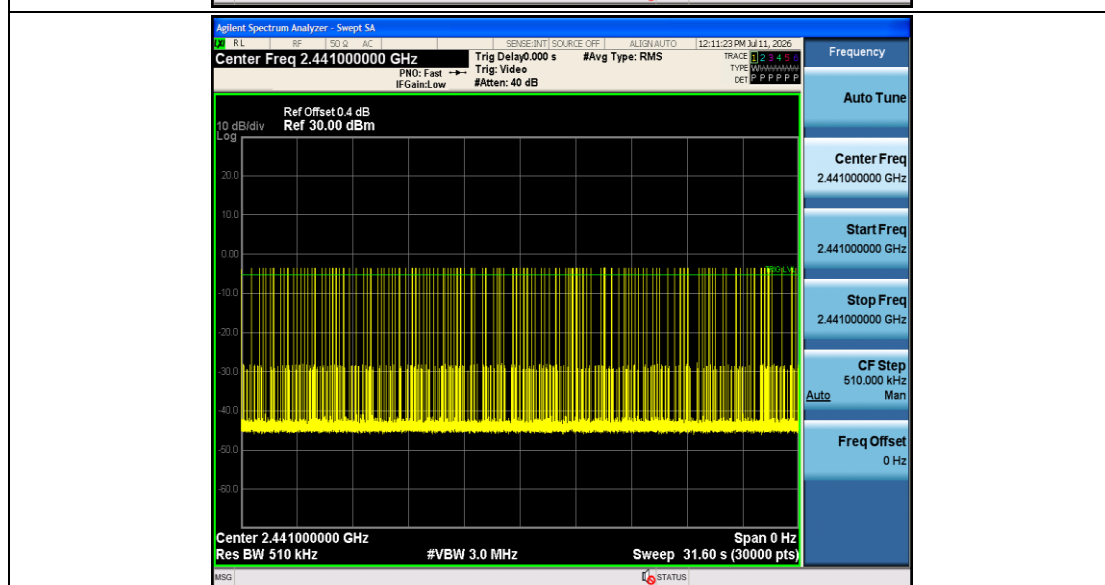
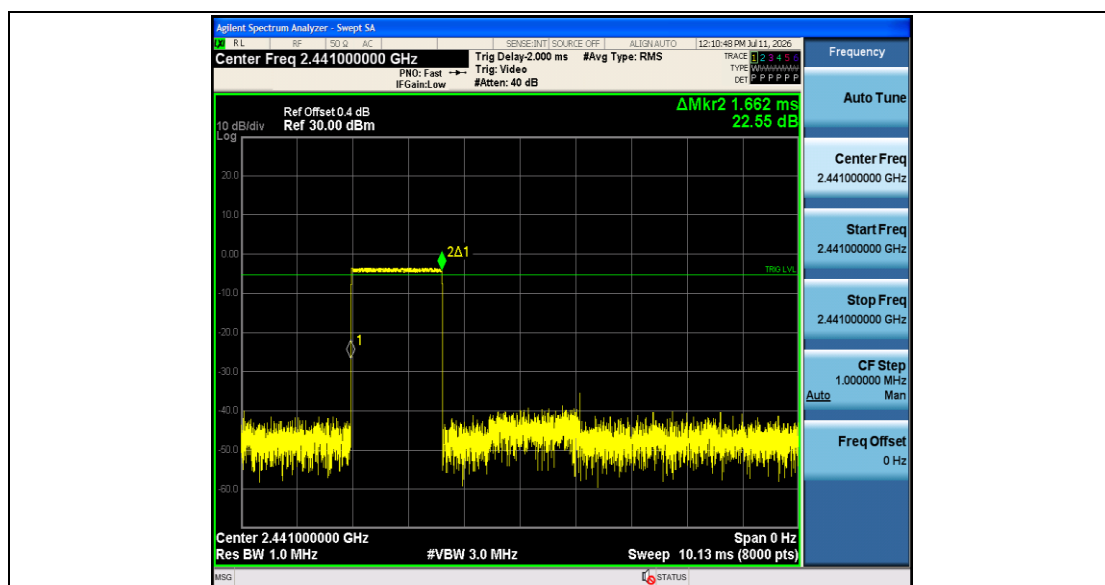
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	315	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.662	156	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.911	100	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.415	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.667	163	0.272	≤0.4	PASS
2DH5	Ant1	Hop	2.916	100	0.292	≤0.4	PASS

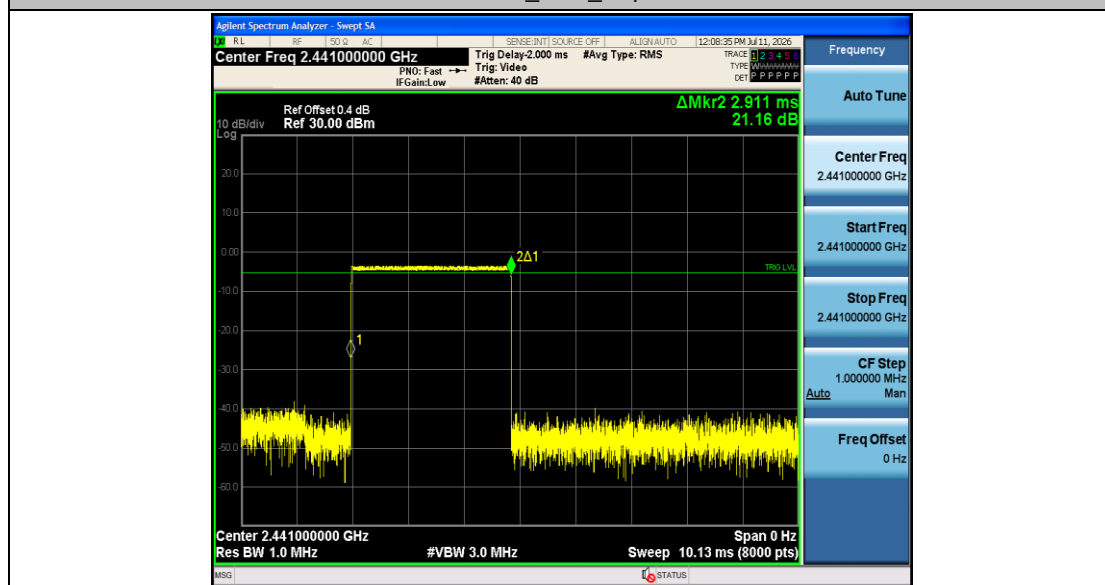
Test Graphs

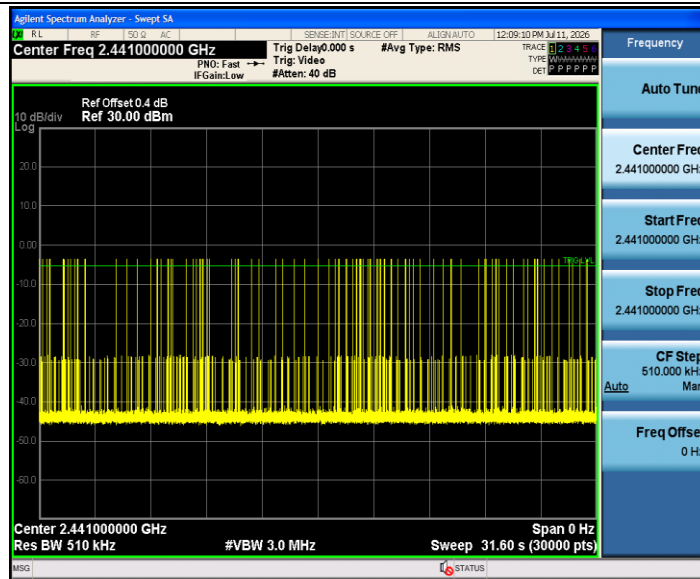


DH3_Ant1_Hop

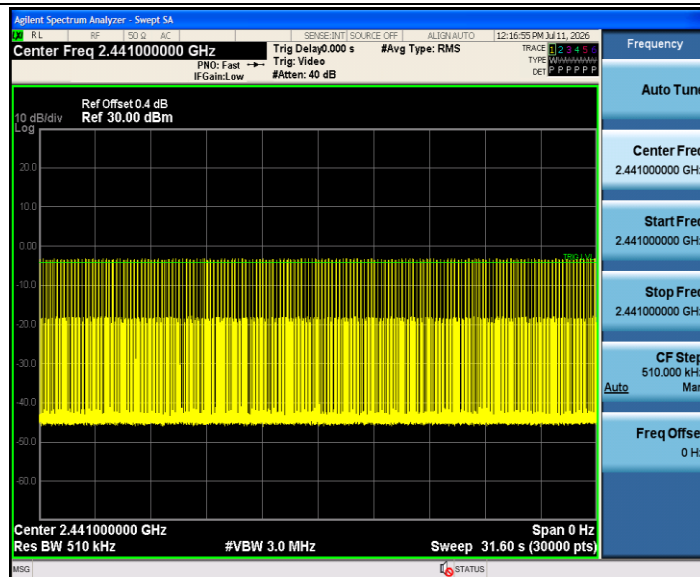
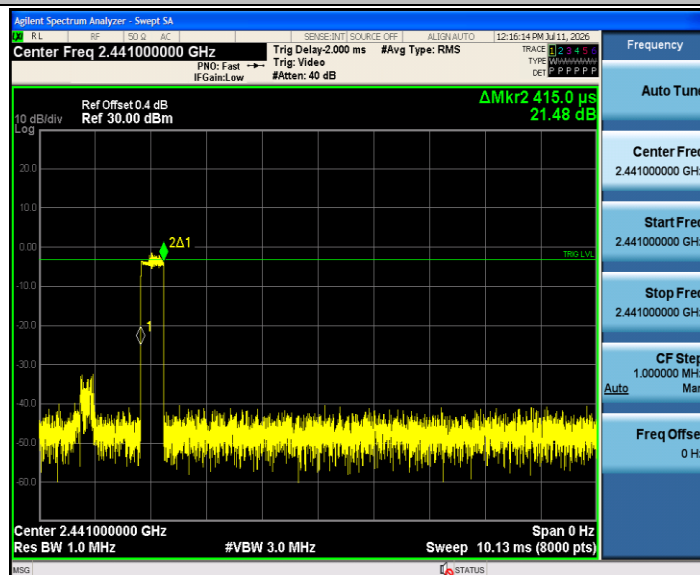


DH5_Ant1_Hop

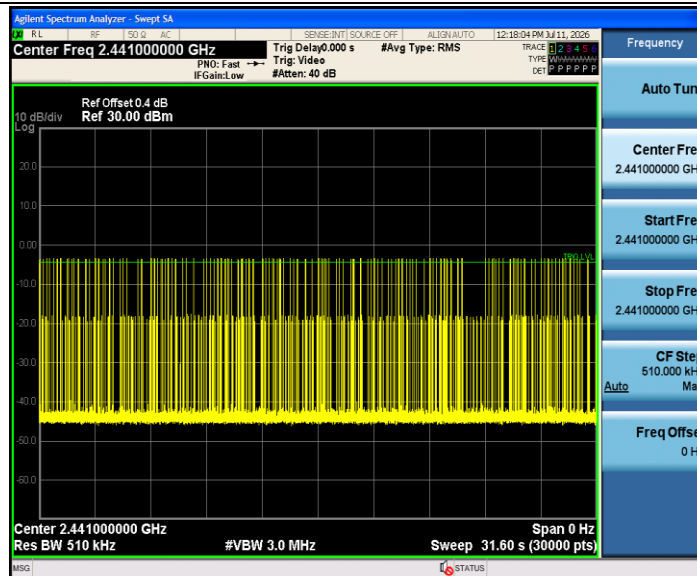
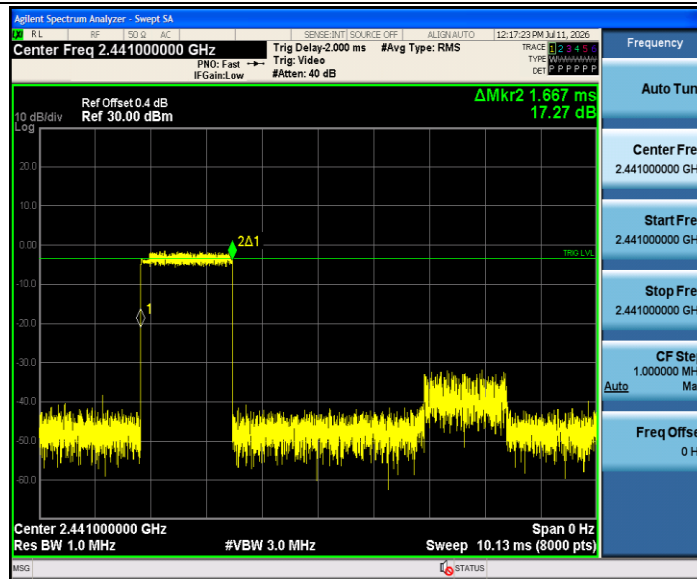




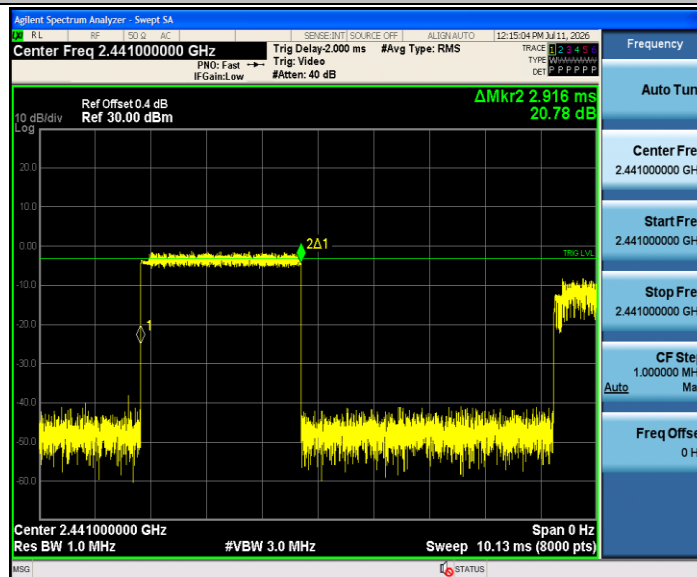
2DH1_Ant1_Hop

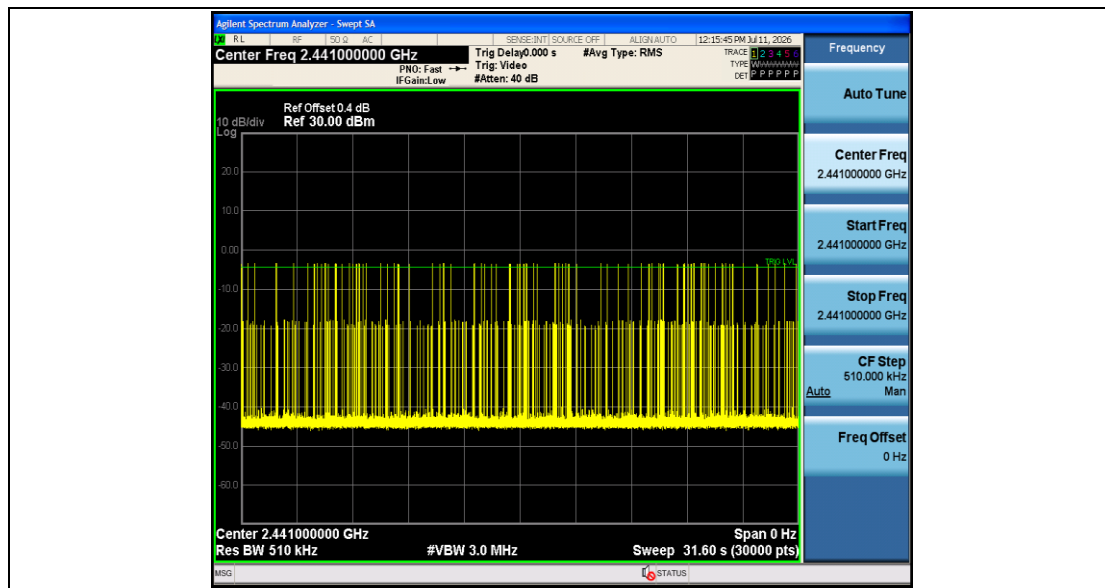


2DH3_Ant1_Hop



2DH5_Ant1_Hop



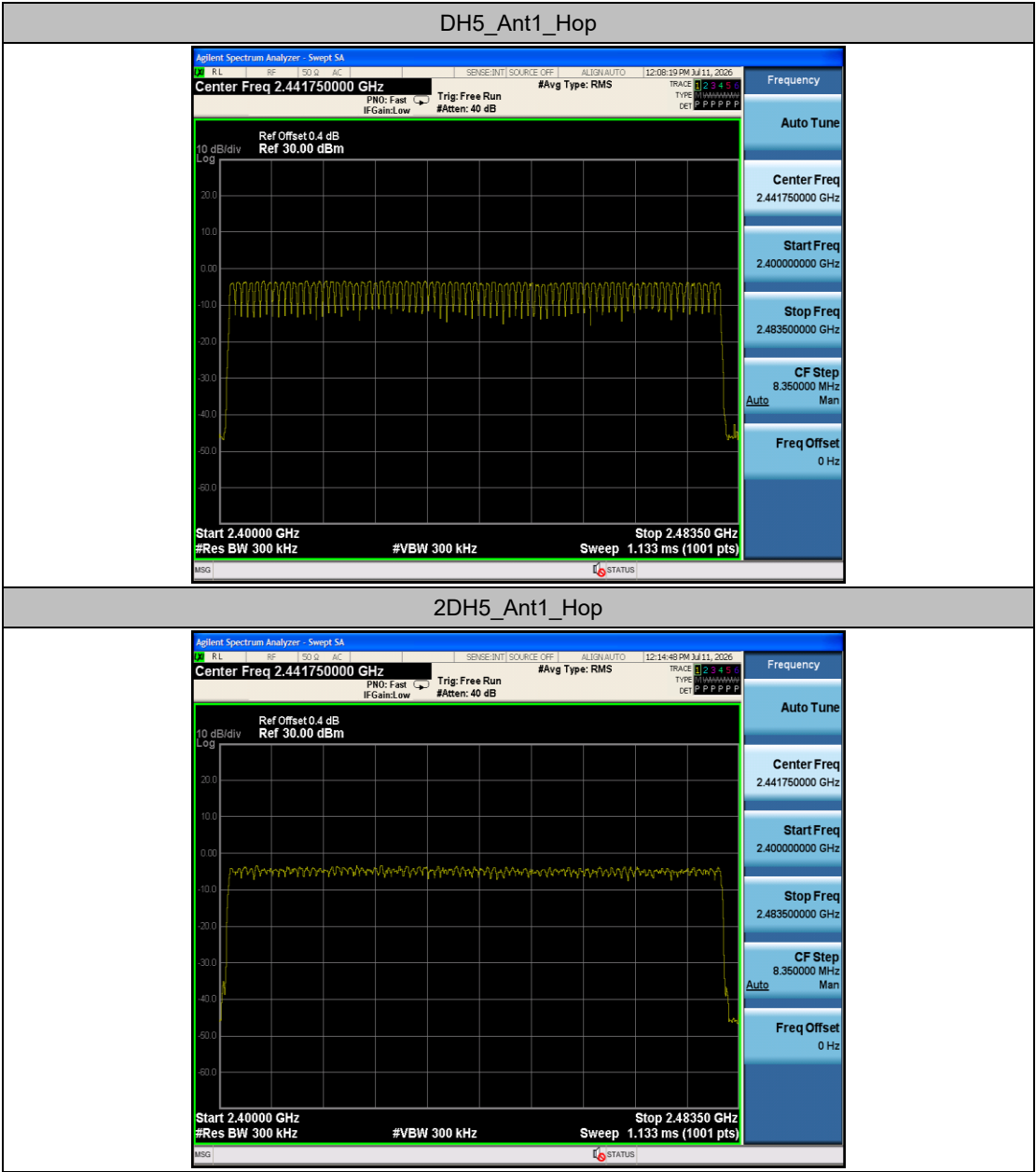


Appendix F: Number of hopping channels

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

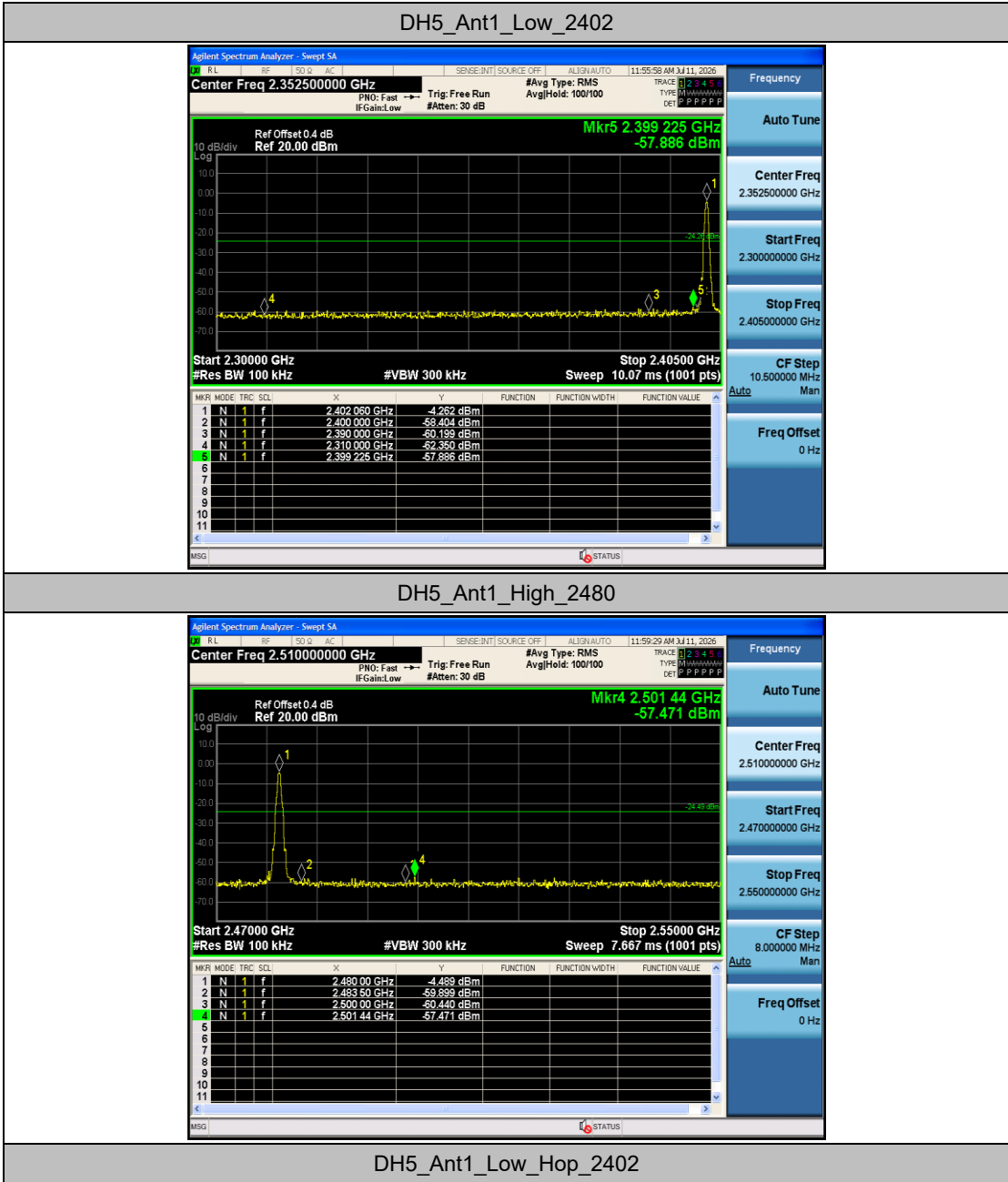


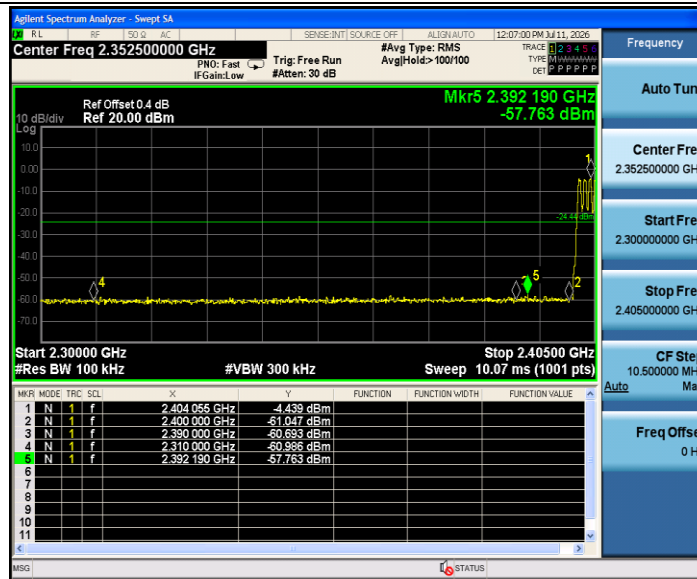
Appendix G: Band edge measurements

Test Result

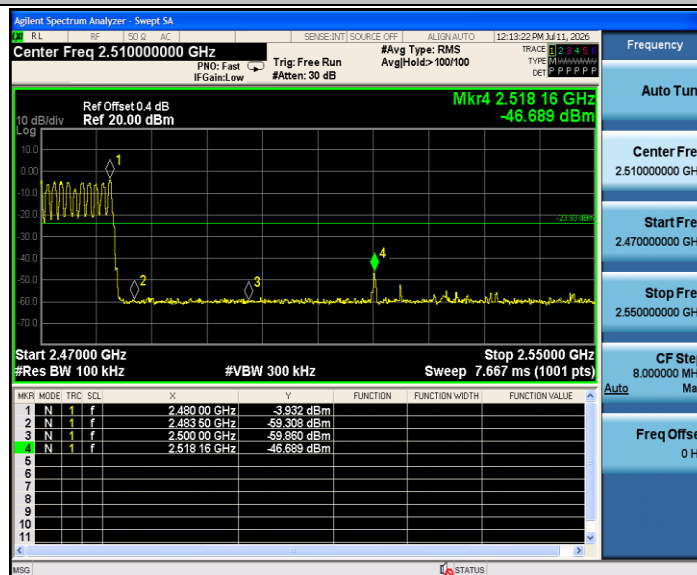
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.26	-57.89	≤-24.26	PASS
		High	2480	-4.49	-57.47	≤-24.49	PASS
		Low	Hop_2402	-4.44	-57.76	≤-24.44	PASS
		High	Hop_2480	-3.93	-46.69	≤-23.93	PASS
2DH5	Ant1	Low	2402	-4.56	-56.93	≤-24.56	PASS
		High	2480	-5.12	-55.33	≤-25.12	PASS
		Low	Hop_2402	-5.80	-58.18	≤-25.8	PASS
		High	Hop_2480	-4.43	-53.08	≤-24.43	PASS

Test Graphs

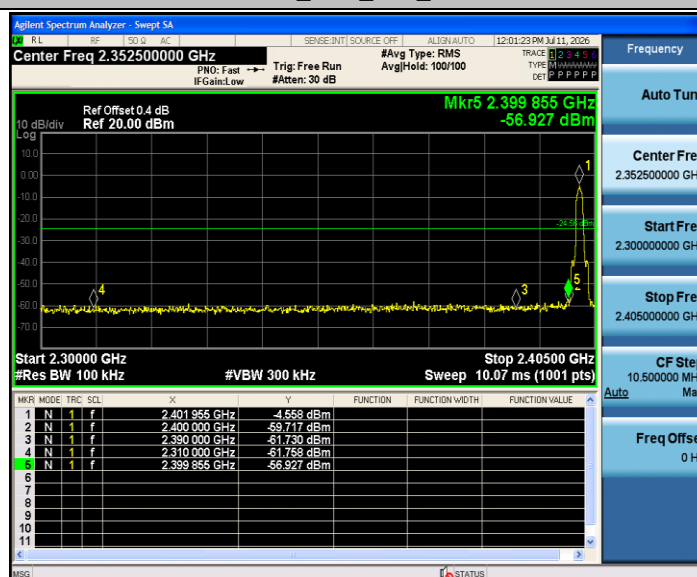




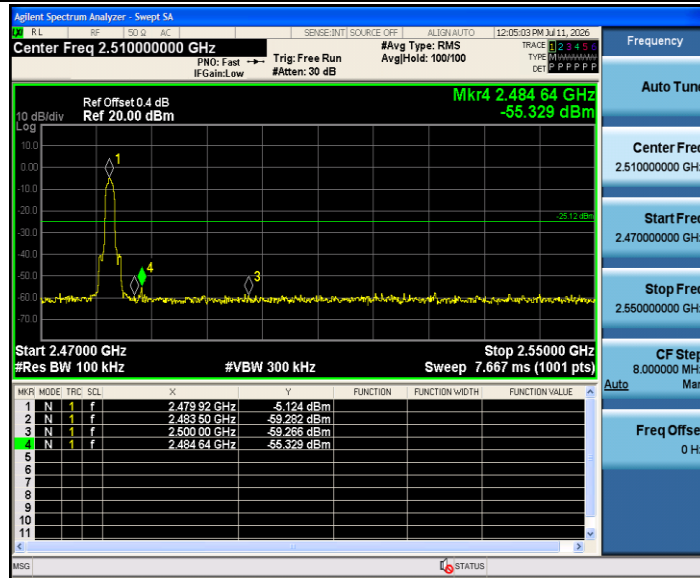
DH5_Ant1_High_Hop_2480



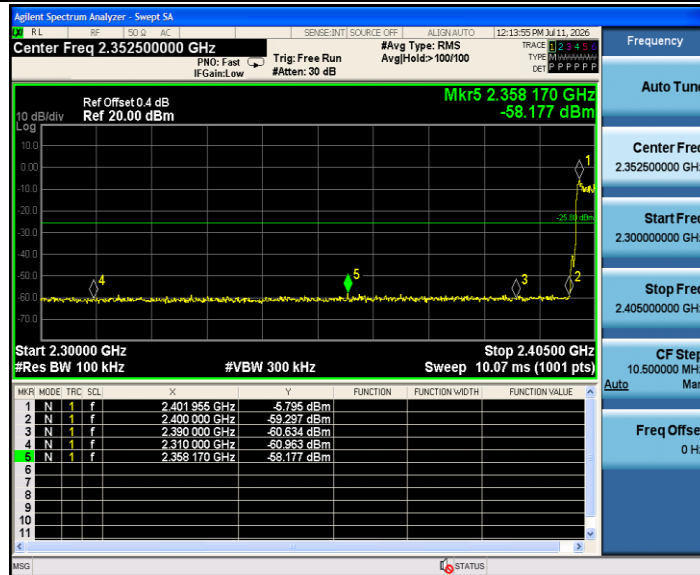
2DH5_Ant1_Low_2402



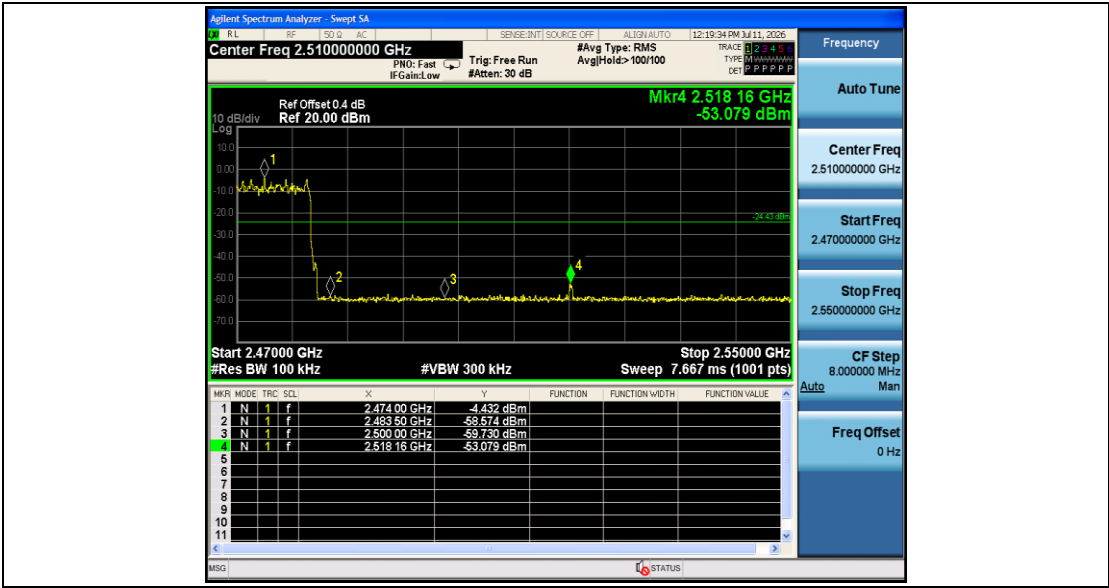
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

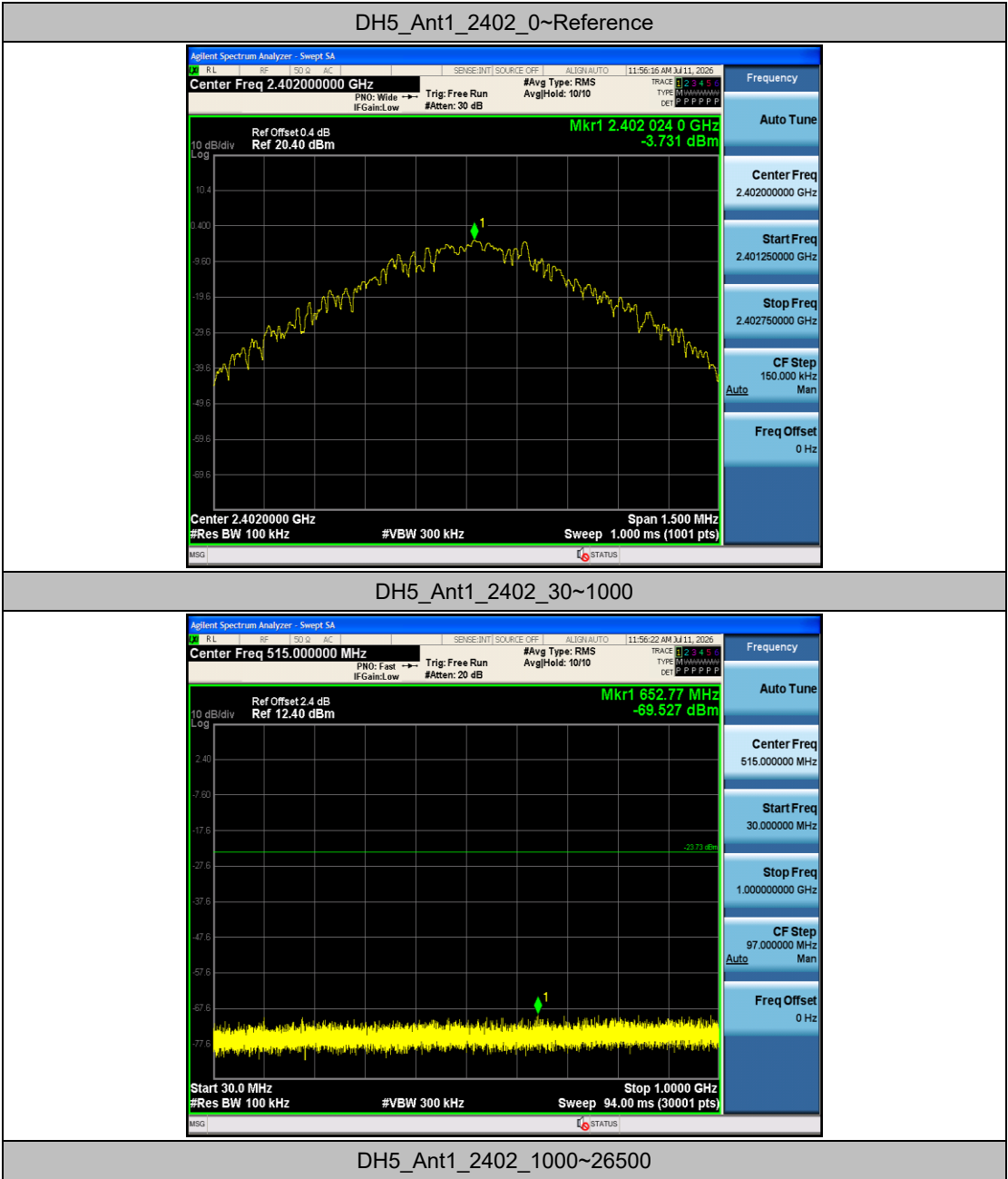


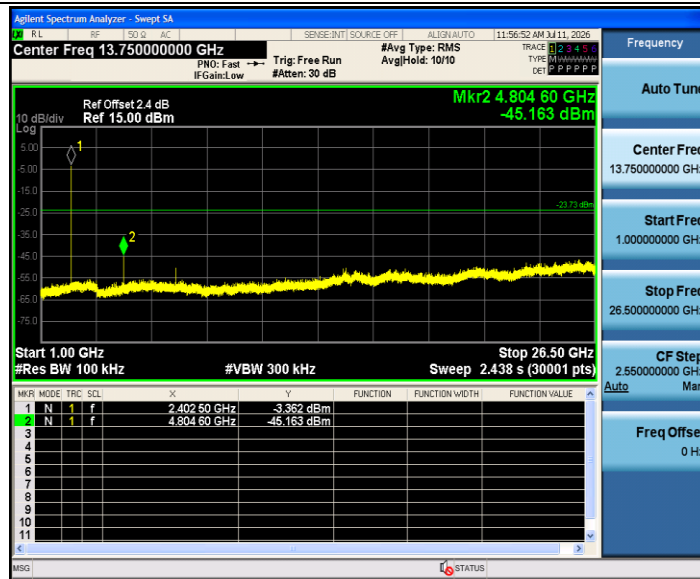
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.73	-3.73	---	PASS
			30~1000	-3.73	-69.53	≤-23.73	PASS
			1000~26500	-3.73	-45.16	≤-23.73	PASS
		2441	Reference	-4.96	-4.96	---	PASS
			30~1000	-4.96	-69.21	≤-24.96	PASS
			1000~26500	-4.96	-46.84	≤-24.96	PASS
		2480	Reference	-5.23	-5.23	---	PASS
			30~1000	-5.23	-67.63	≤-25.23	PASS
			1000~26500	-5.23	-46.52	≤-25.23	PASS
2DH5	Ant1	2402	Reference	-6.45	-6.45	---	PASS
			30~1000	-6.45	-69.35	≤-26.45	PASS
			1000~26500	-6.45	-47.3	≤-26.45	PASS
		2441	Reference	-6.98	-6.98	---	PASS
			30~1000	-6.98	-68.27	≤-26.98	PASS
			1000~26500	-6.98	-47.29	≤-26.98	PASS
		2480	Reference	-6.94	-6.94	---	PASS
			30~1000	-6.94	-68.7	≤-26.94	PASS
			1000~26500	-6.94	-46.84	≤-26.94	PASS

Test Graphs

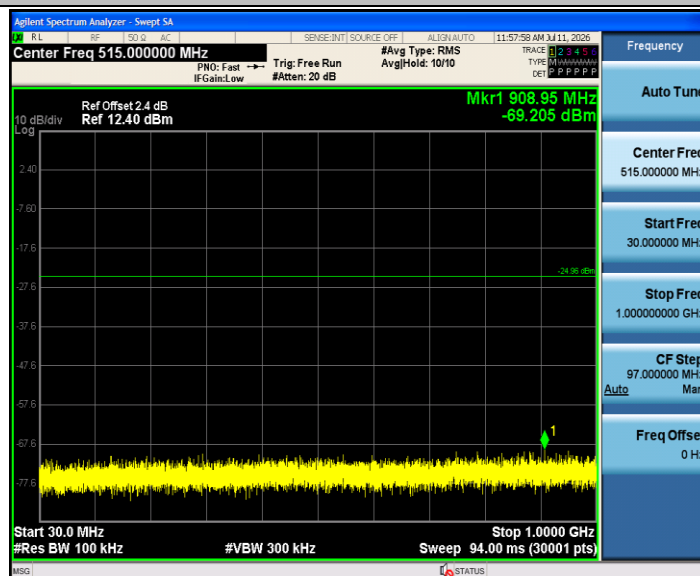




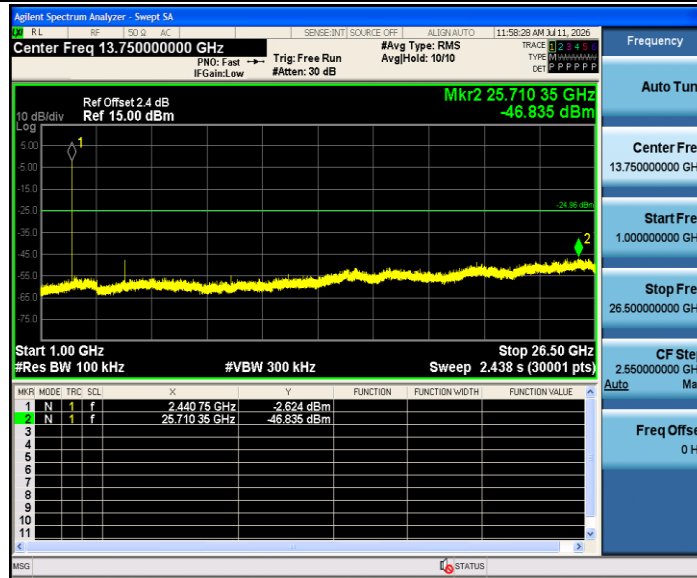
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



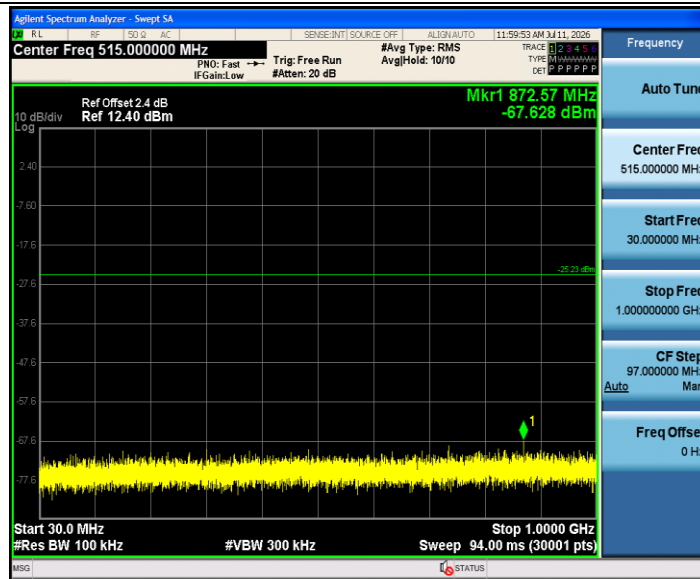
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



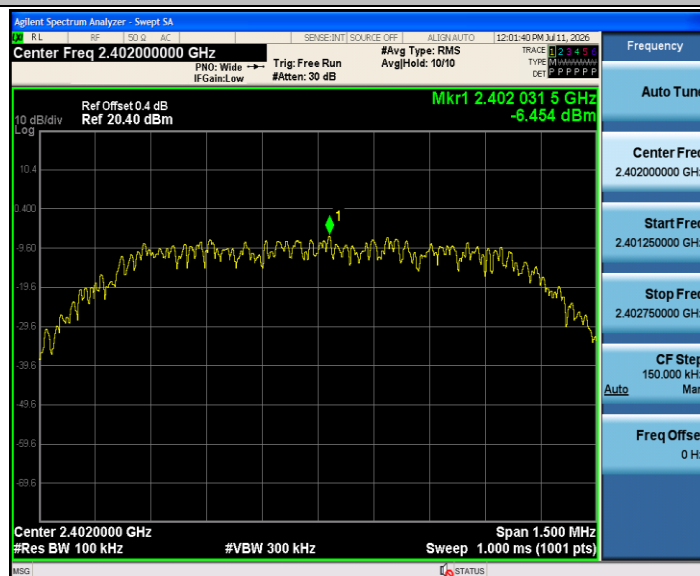
DH5_Ant1_2480_30~1000



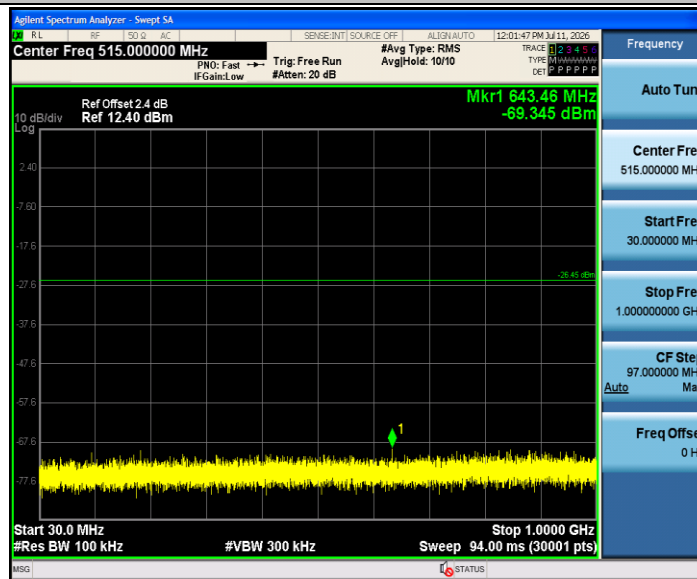
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



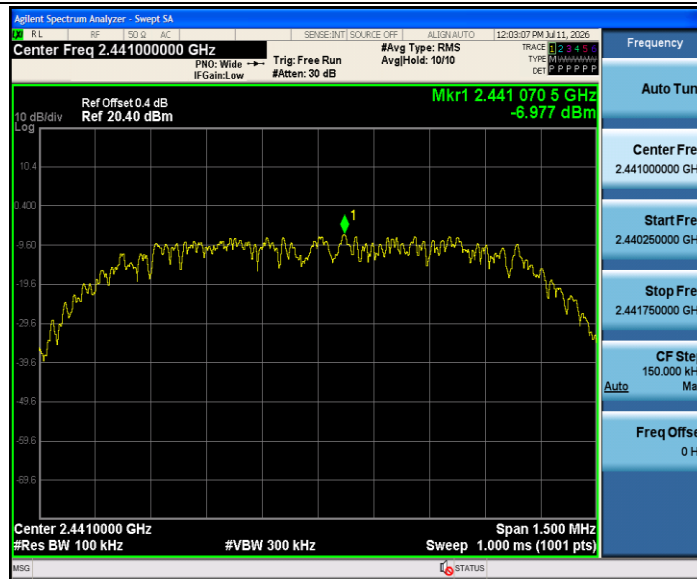
2DH5_Ant1_2402_30~1000



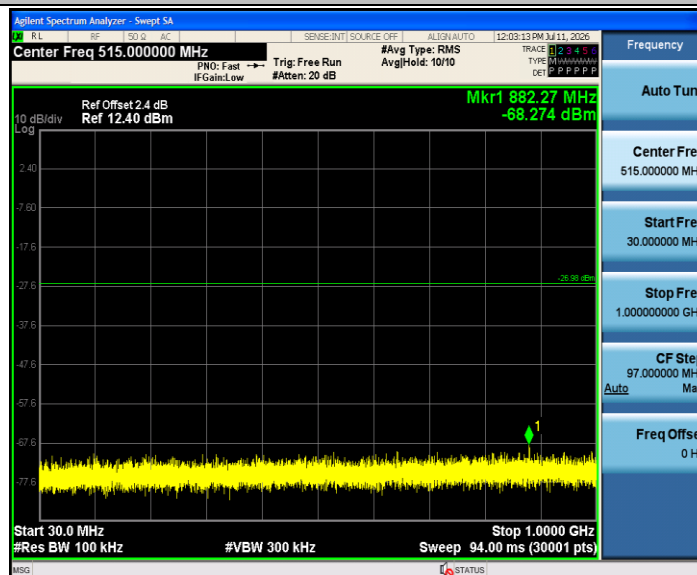
2DH5_Ant1_2402_1000~26500



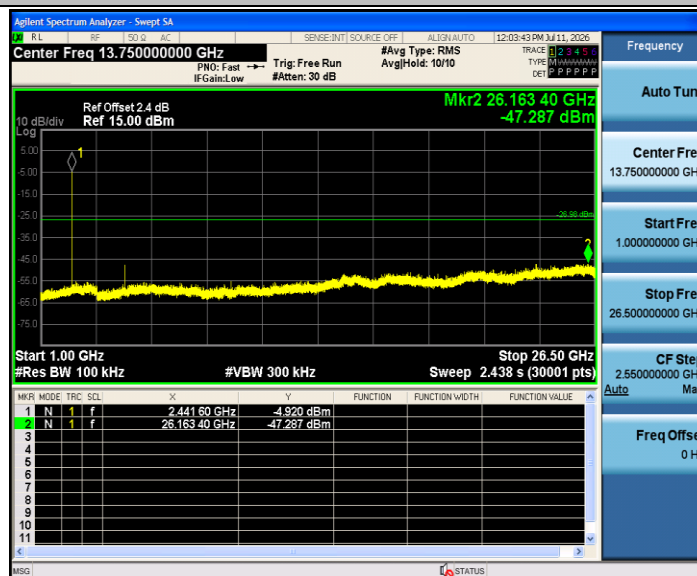
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



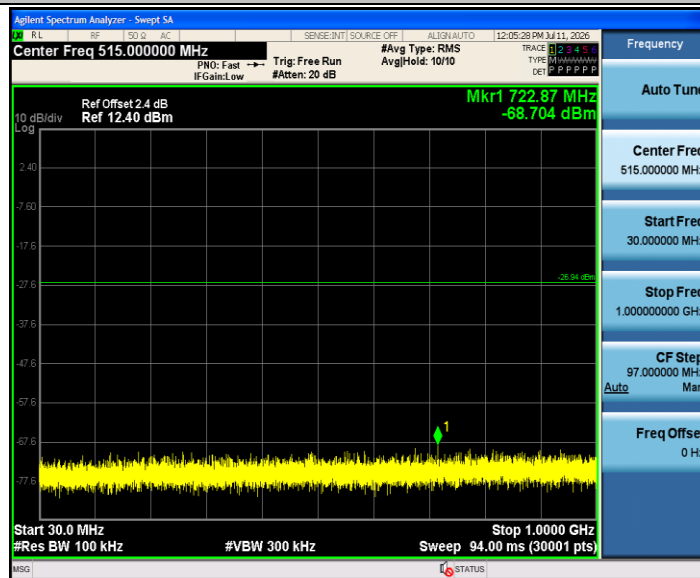
2DH5_Ant1_2441_1000~26500



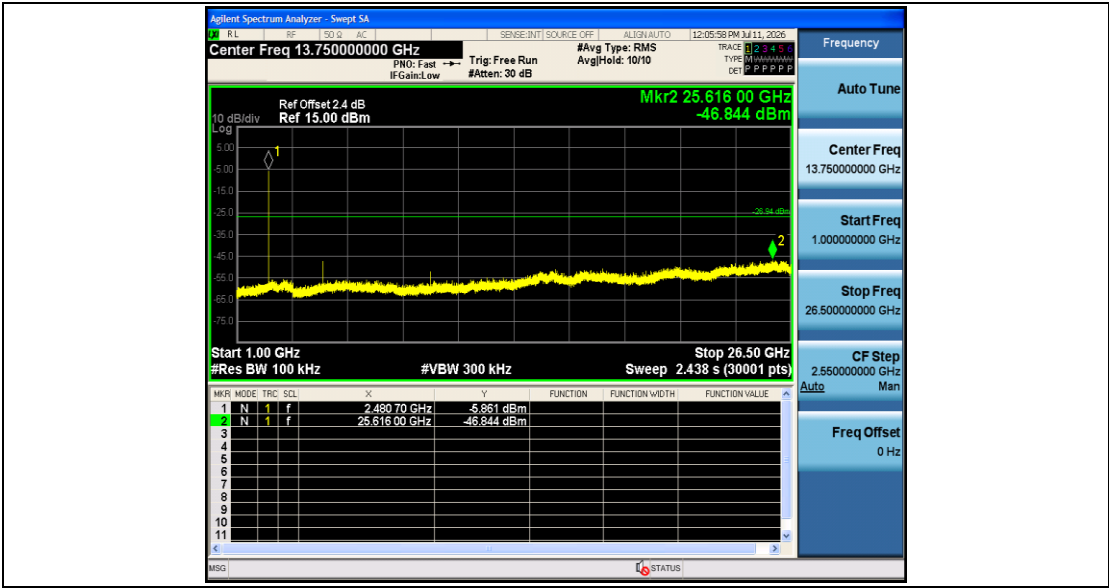
2DH5_Ant1_2480_0~Reference



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	2.92	3.76	77.66	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---