

FCC Appendix RF Test Data for BT

FCC ID : 2BXLD-209

Company : Shantou Chenghai Huaxuan Toys Factory

EUT : dance mat

Model Number : 209

Report No. : CTA26090401001

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	0.957	2440.547	2441.504	---	---
		2480	0.945	2479.550	2480.495	---	---
2DH5	Ant1	2402	1.281	2401.382	2402.663	---	---
		2441	1.335	2440.343	2441.678	---	---
		2480	1.347	2479.337	2480.684	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

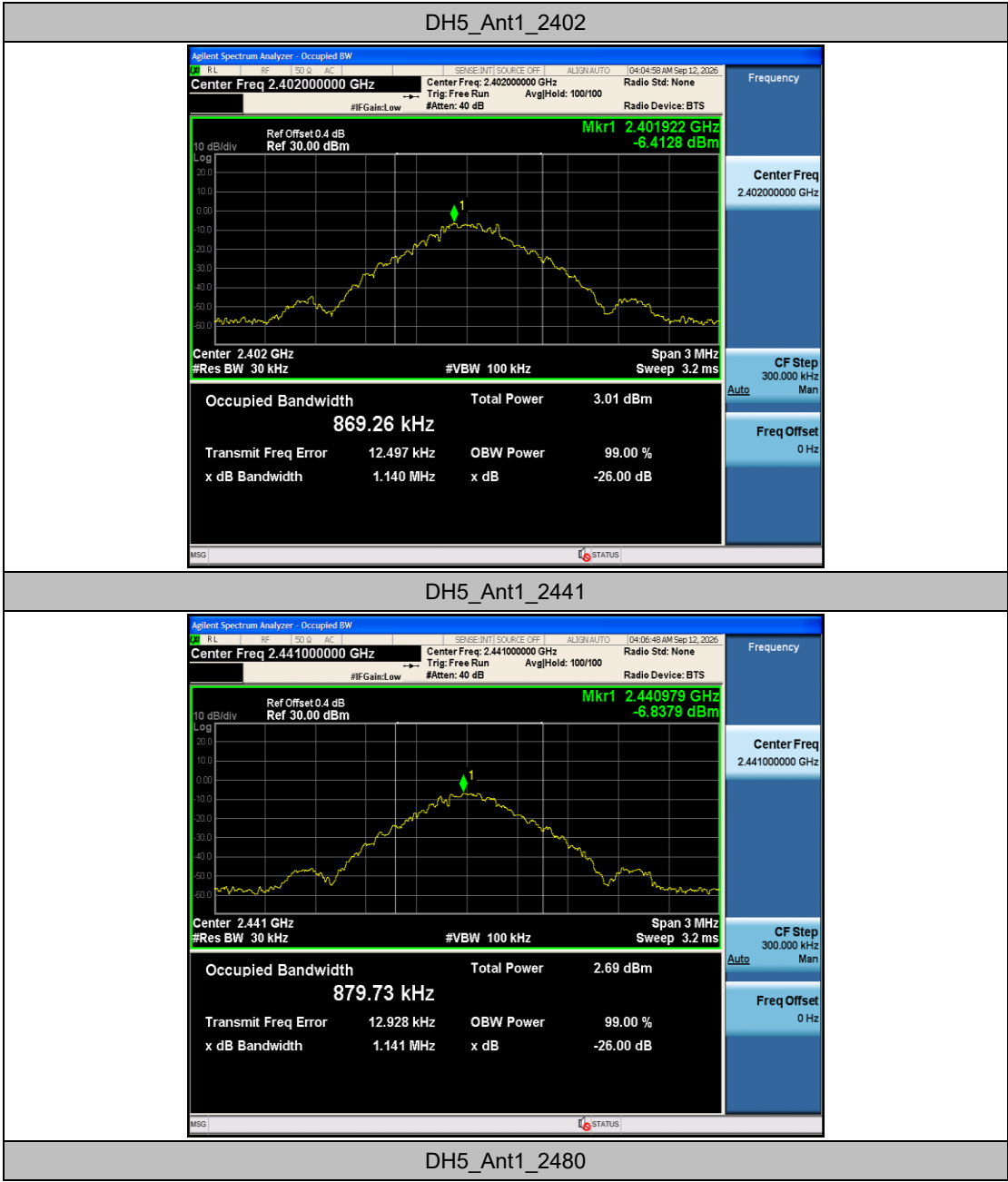


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86926	2401.5779	2402.4471	---	---
		2441	0.87973	2440.5731	2441.4528	---	---
		2480	0.87094	2479.5778	2480.4487	---	---
2DH5	Ant1	2402	1.1809	2401.4234	2402.6043	---	---
		2441	1.1939	2440.4124	2441.6063	---	---
		2480	1.1965	2479.4128	2480.6093	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

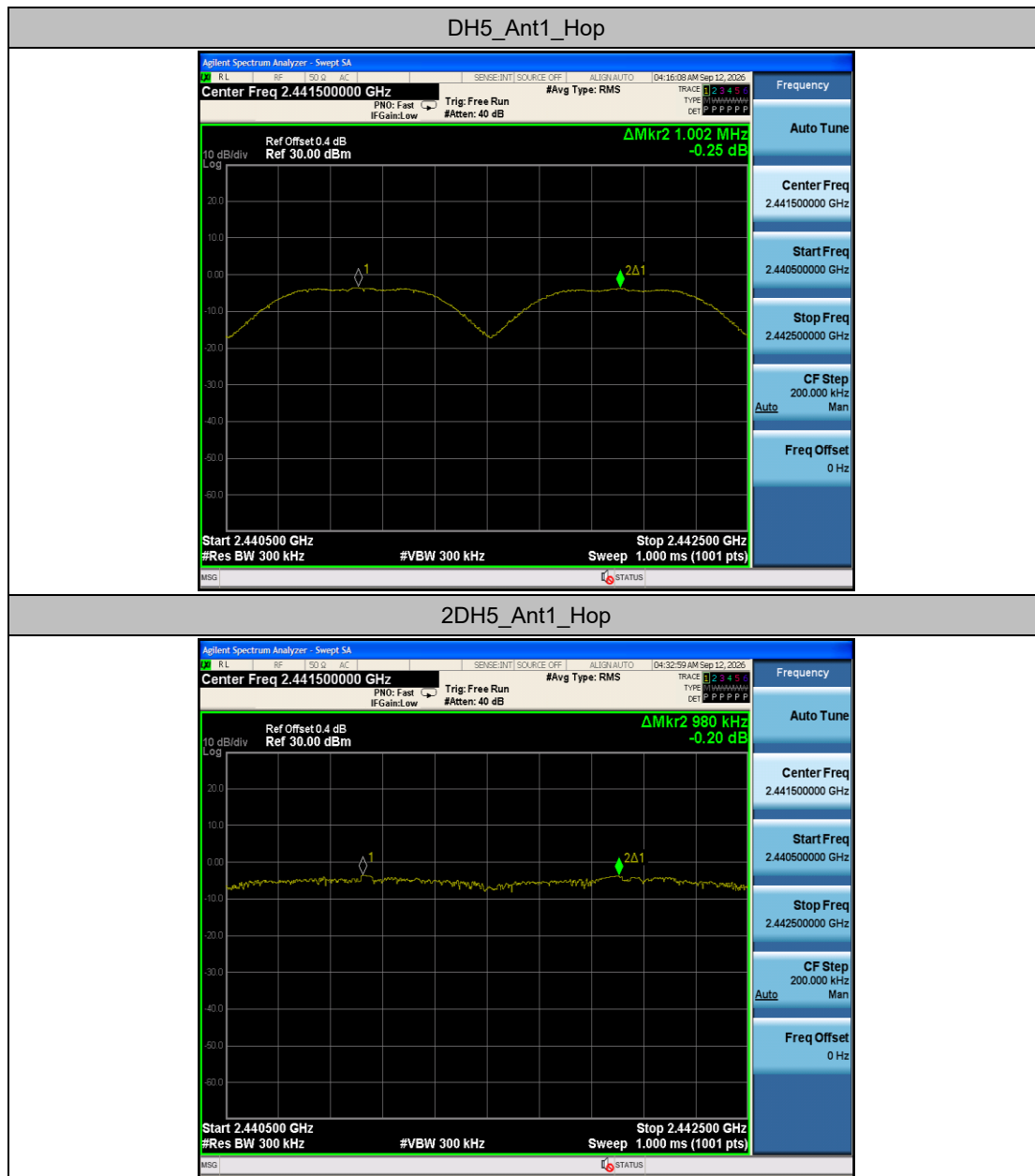
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.40	≤20.97	PASS
		2441	-3.43	≤20.97	PASS
		2480	-3.65	≤20.97	PASS
2DH5	Ant1	2402	-0.74	≤20.97	PASS
		2441	-0.78	≤20.97	PASS
		2480	-1.05	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.002	≥ 0.960	PASS
2DH5	Ant1	Hop	0.98	≥ 0.898	PASS

Test Graphs

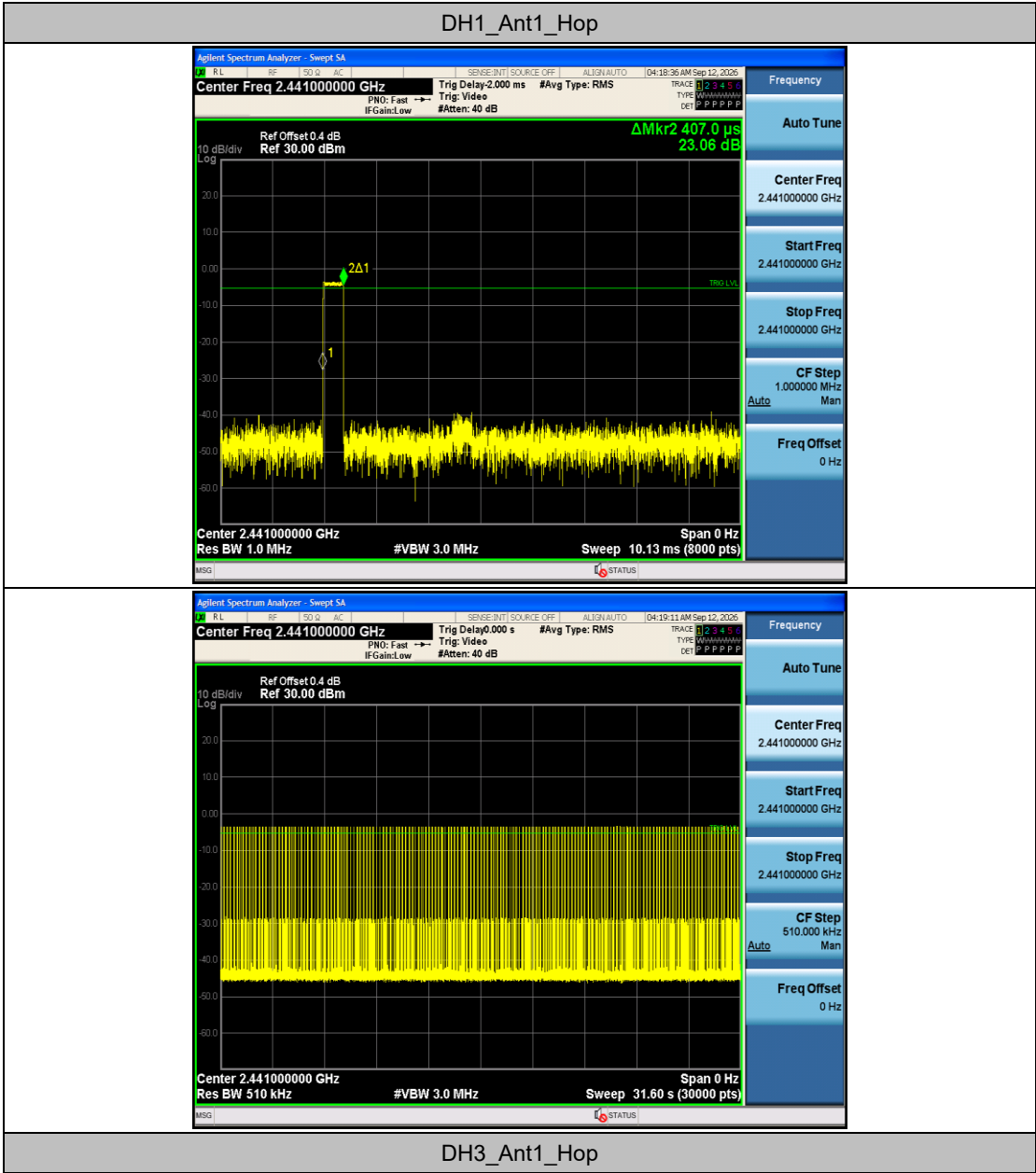


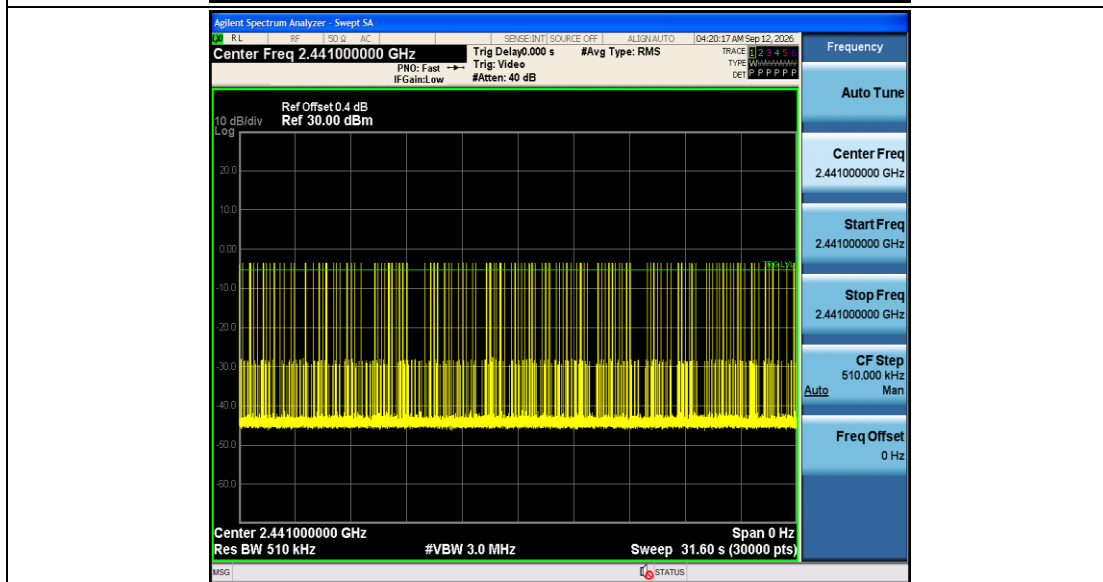
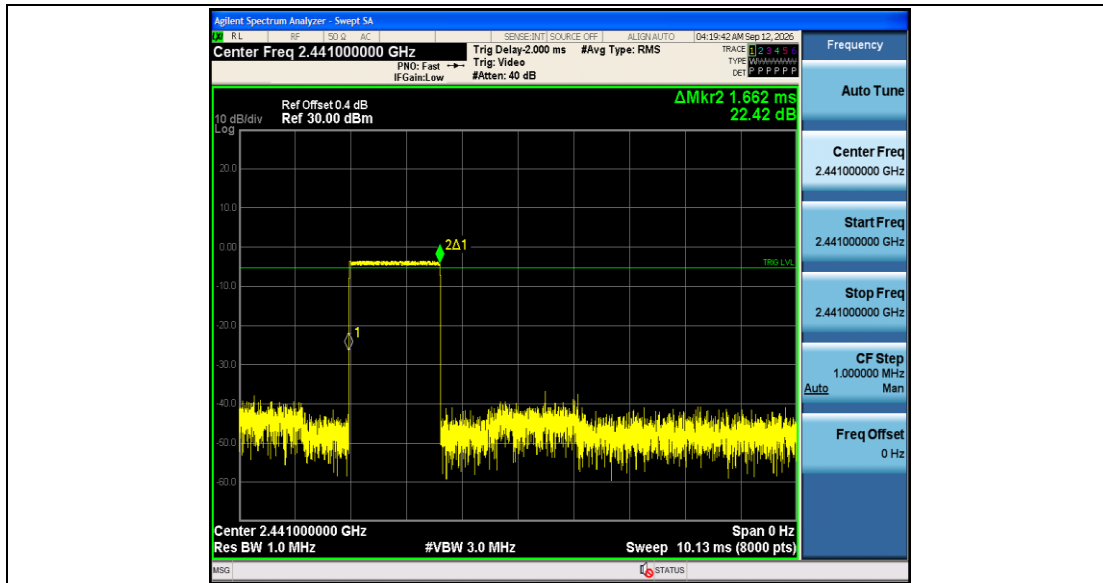
Appendix E: Time of occupancy

Test Result

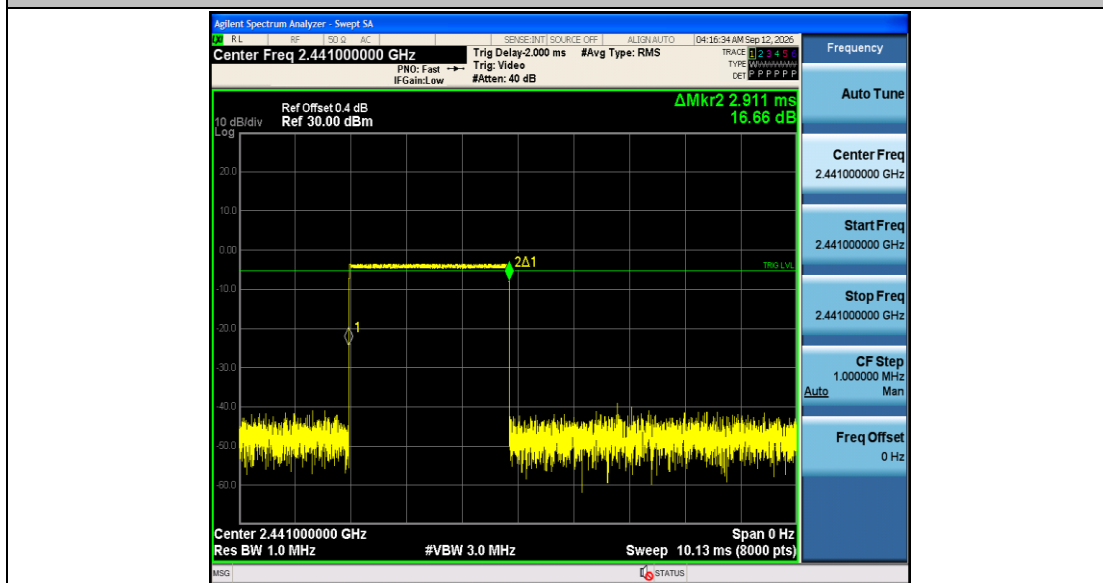
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	313	0.127	≤0.4	PASS
DH3	Ant1	Hop	1.662	155	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.911	112	0.326	≤0.4	PASS
2DH1	Ant1	Hop	0.415	315	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.668	166	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.916	105	0.306	≤0.4	PASS

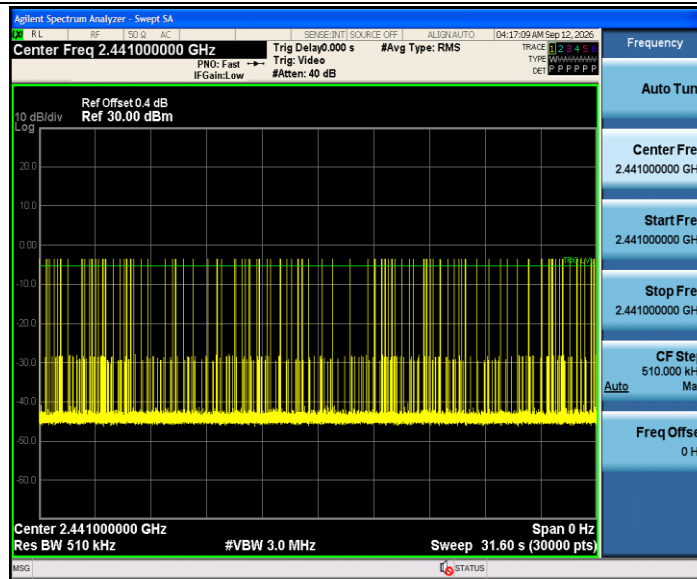
Test Graphs



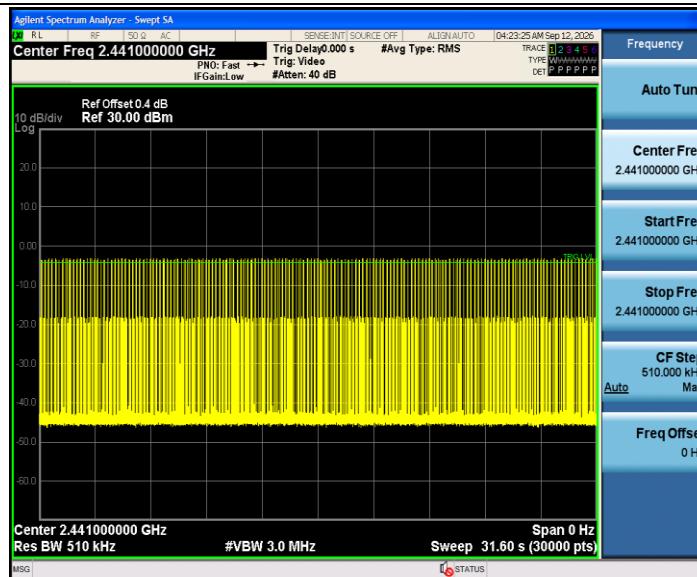
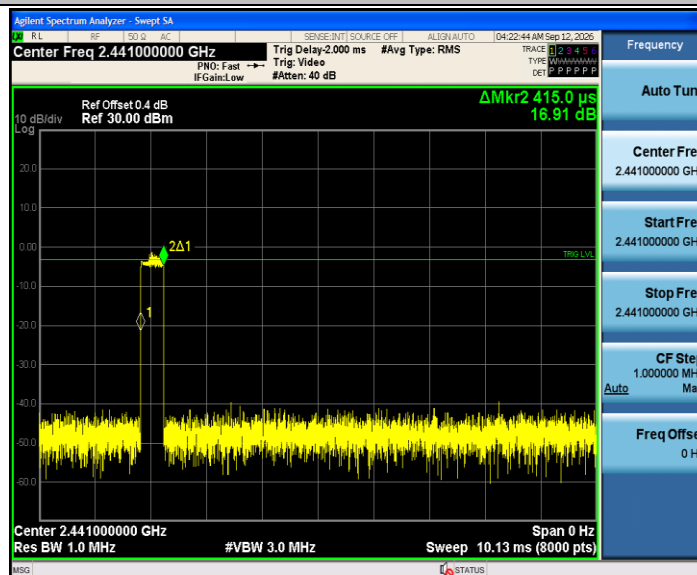


DH5_Ant1_Hop

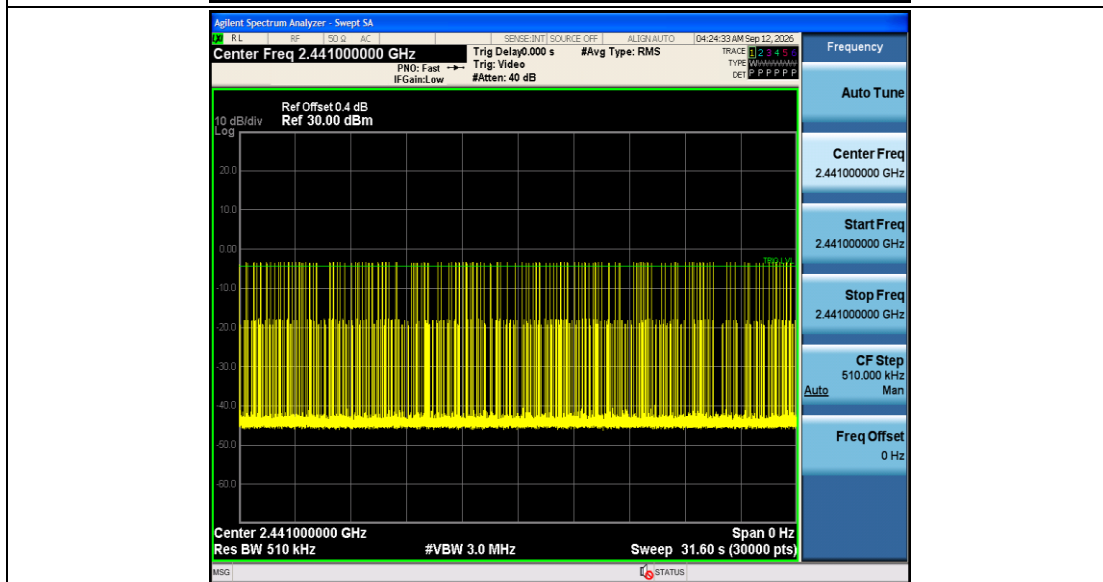
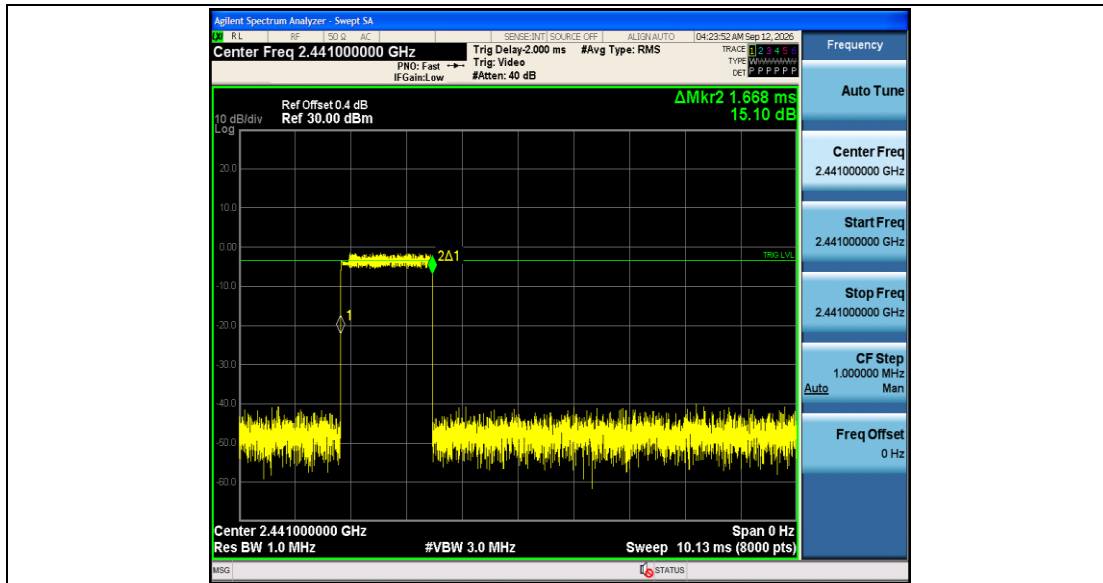




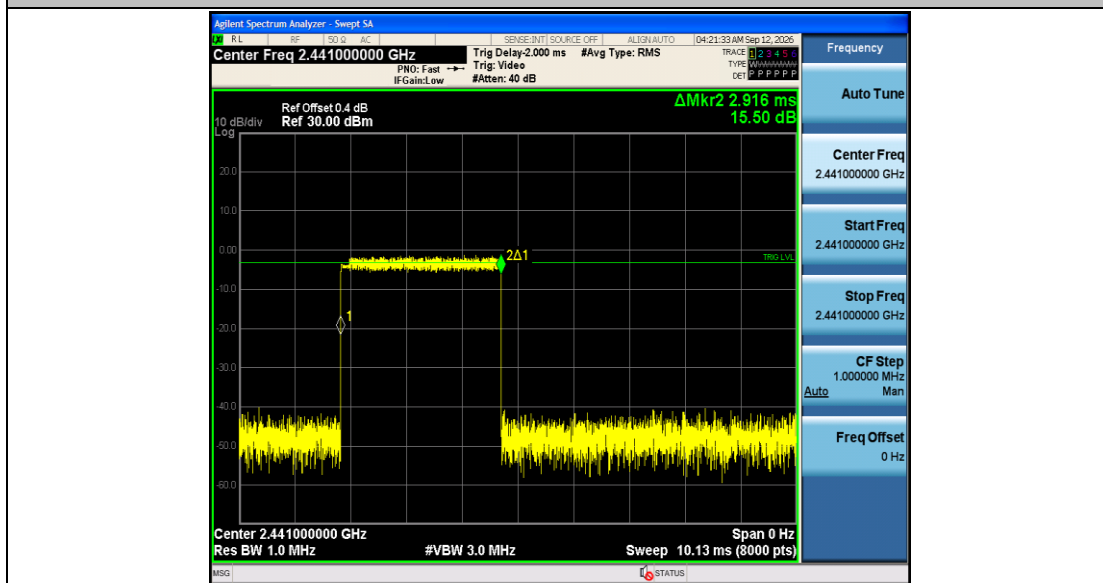
2DH1_Ant1_Hop

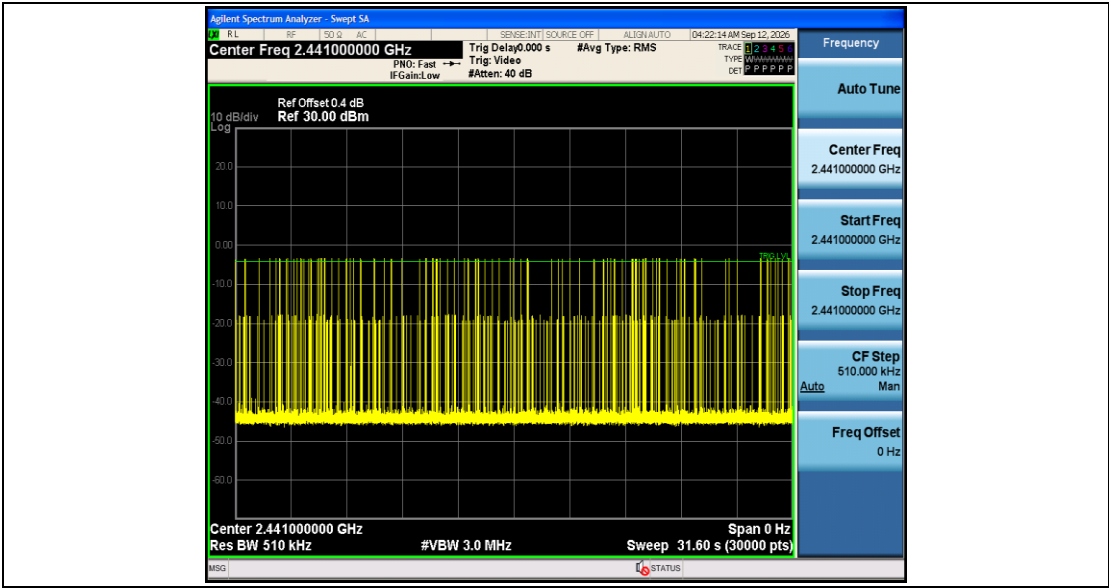


2DH3_Ant1_Hop



2DH5_Ant1_Hop



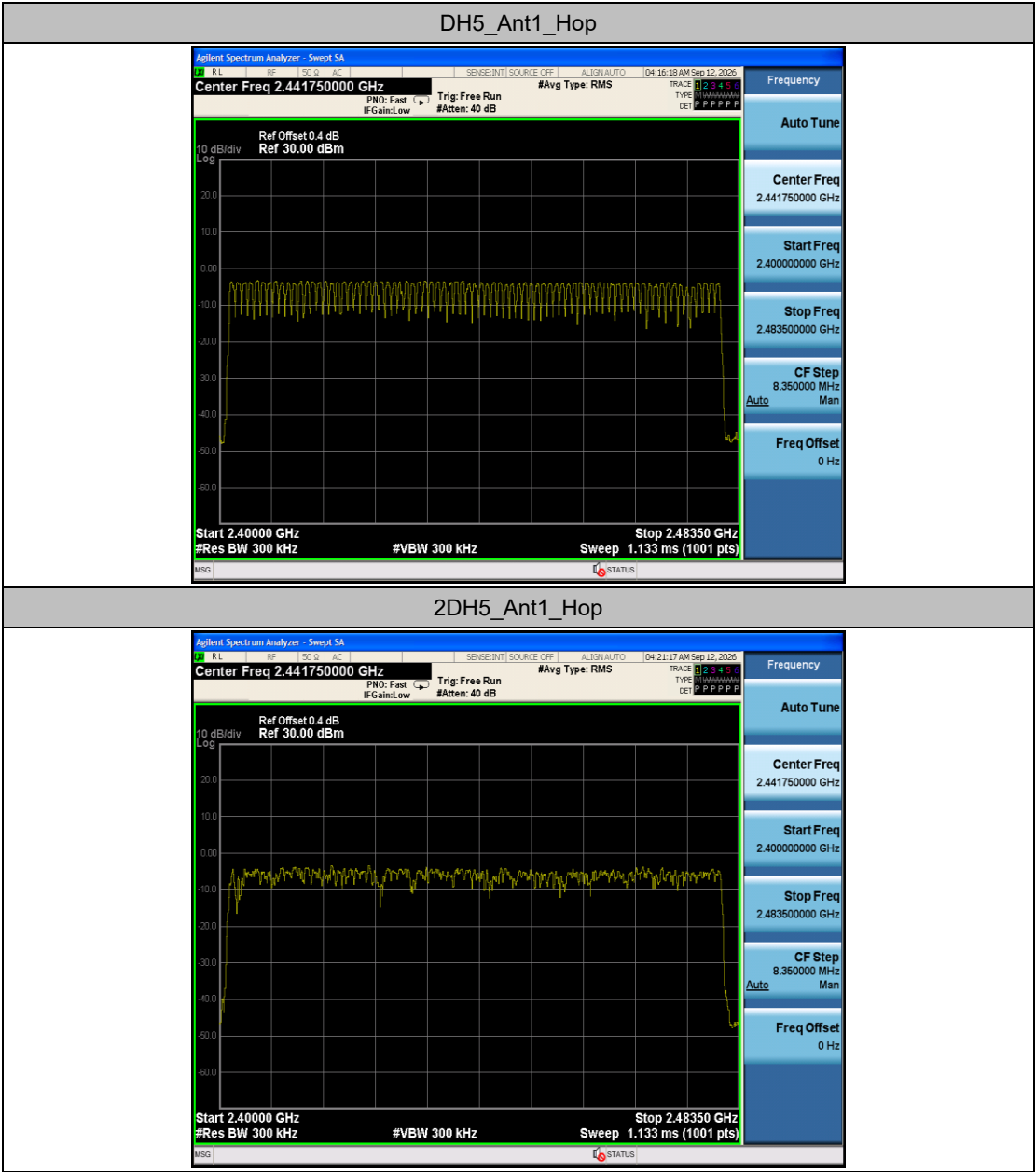


Appendix F: Number of hopping channels

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

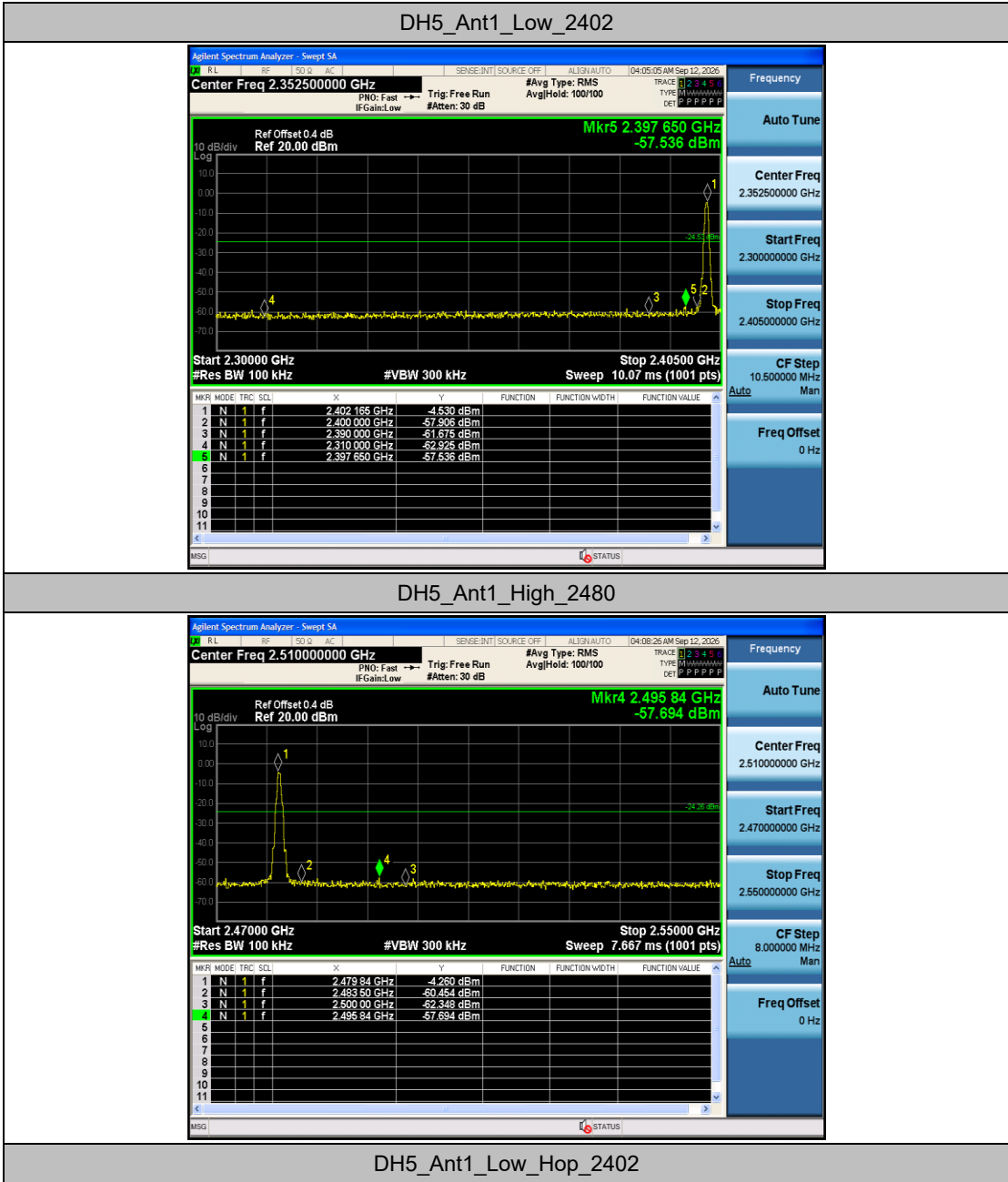


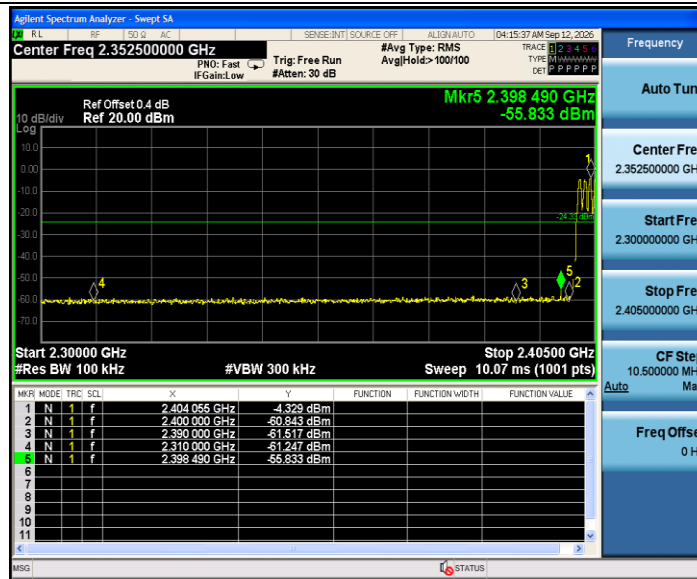
Appendix G: Band edge measurements

Test Result

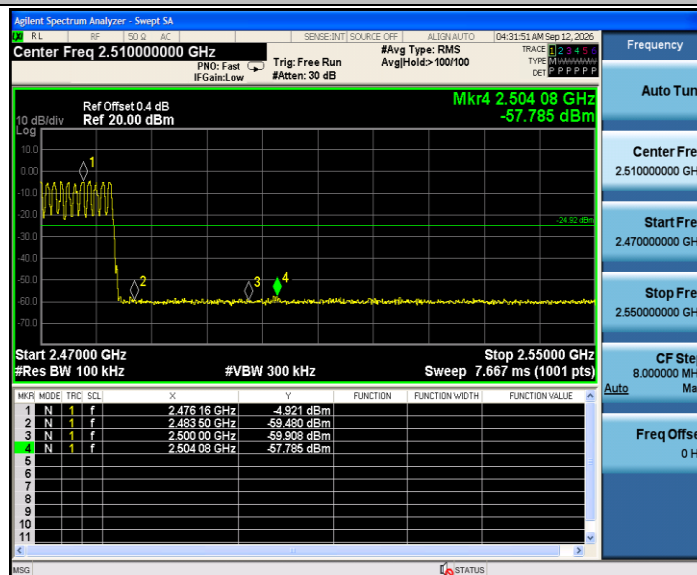
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.53	-57.54	≤-24.53	PASS
		High	2480	-4.26	-57.69	≤-24.26	PASS
		Low	Hop_2402	-4.33	-55.83	≤-24.33	PASS
		High	Hop_2480	-4.92	-57.79	≤-24.92	PASS
2DH5	Ant1	Low	2402	-3.56	-57.31	≤-23.56	PASS
		High	2480	-4.51	-57.71	≤-24.51	PASS
		Low	Hop_2402	-7.83	-59.04	≤-27.83	PASS
		High	Hop_2480	-4.77	-56.77	≤-24.77	PASS

Test Graphs

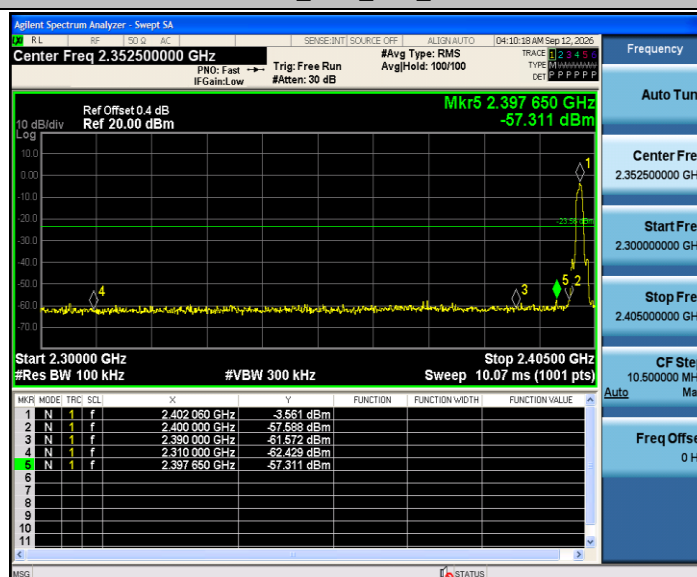




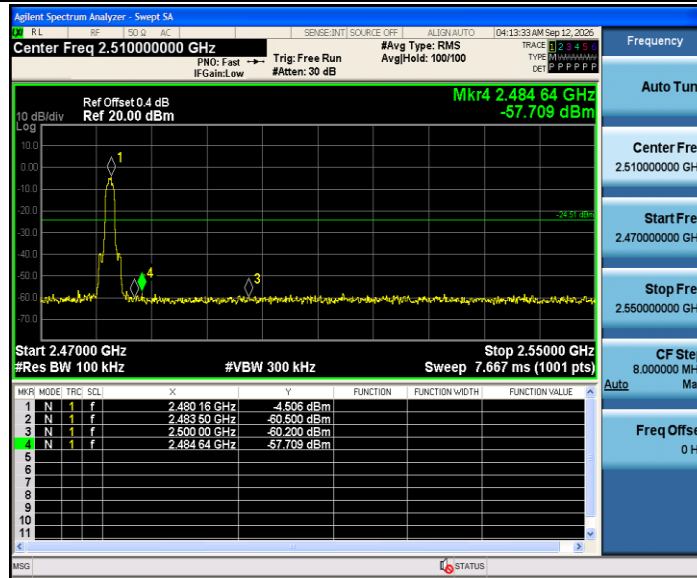
DH5_Ant1_High_Hop_2480



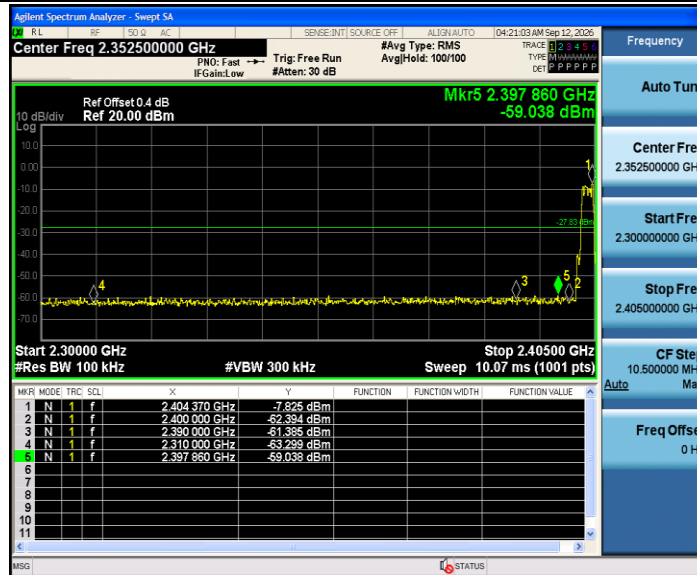
2DH5_Ant1_Low_2402



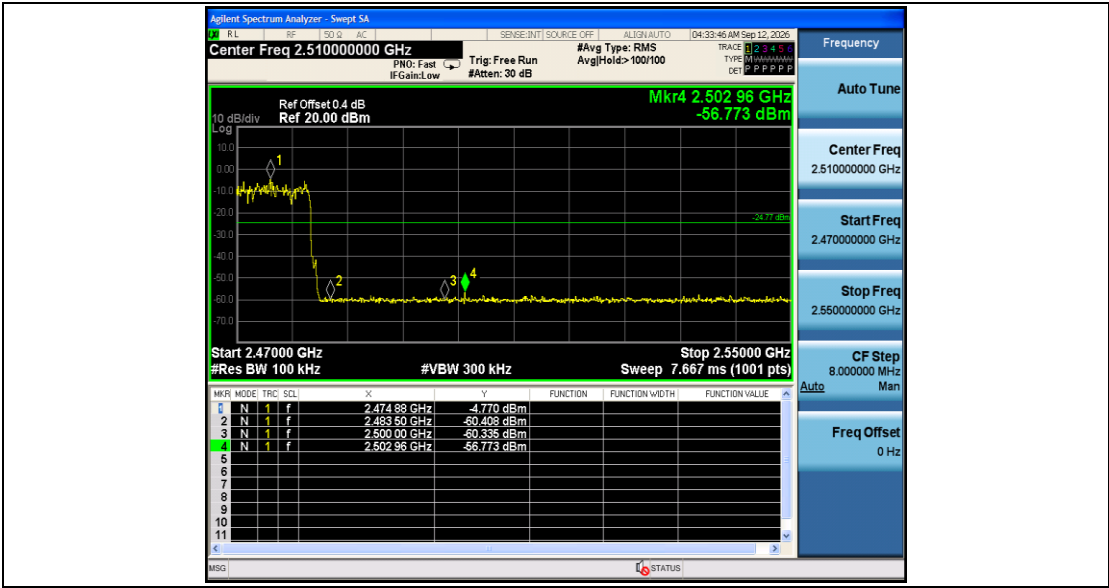
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

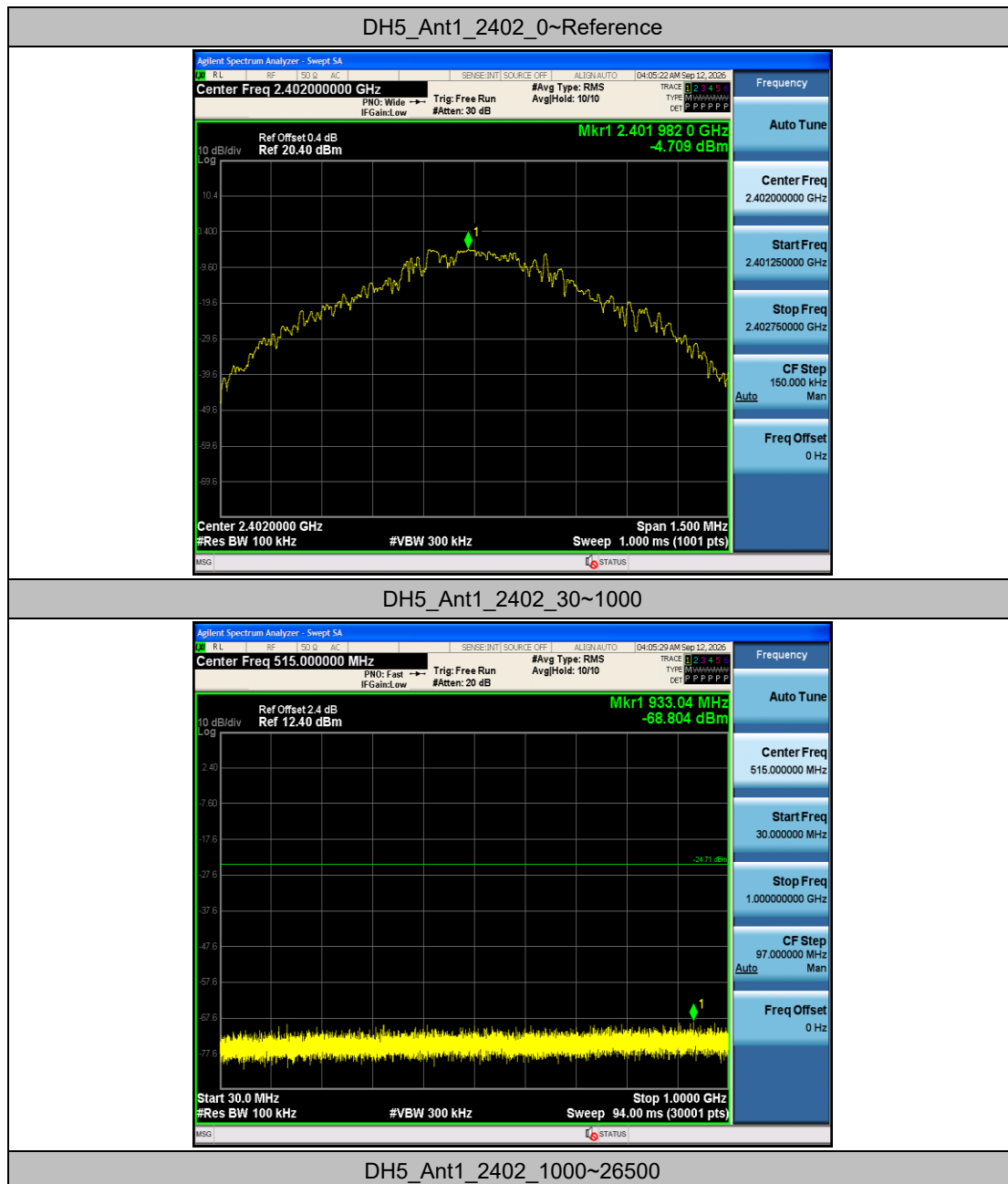


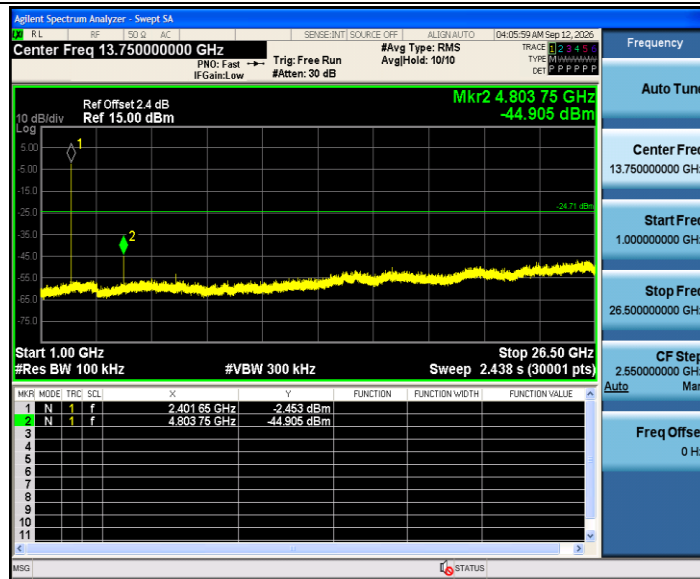
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-68.8	≤-24.71	PASS
			1000~26500	-4.71	-44.91	≤-24.71	PASS
		2441	Reference	-4.49	-4.49	---	PASS
			30~1000	-4.49	-68.11	≤-24.49	PASS
			1000~26500	-4.49	-46.24	≤-24.49	PASS
		2480	Reference	-4.32	-4.32	---	PASS
			30~1000	-4.32	-68.15	≤-24.32	PASS
			1000~26500	-4.32	-46.93	≤-24.32	PASS
2DH5	Ant1	2402	Reference	-3.69	-3.69	---	PASS
			30~1000	-3.69	-68.34	≤-23.69	PASS
			1000~26500	-3.69	-44.88	≤-23.69	PASS
		2441	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-69.2	≤-25.11	PASS
			1000~26500	-5.11	-46.75	≤-25.11	PASS
		2480	Reference	-6.57	-6.57	---	PASS
			30~1000	-6.57	-68.5	≤-26.57	PASS
			1000~26500	-6.57	-46.75	≤-26.57	PASS

Test Graphs

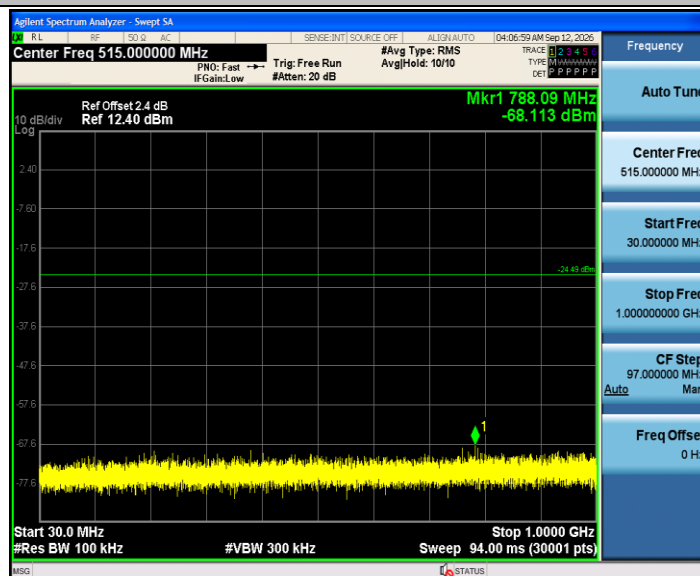




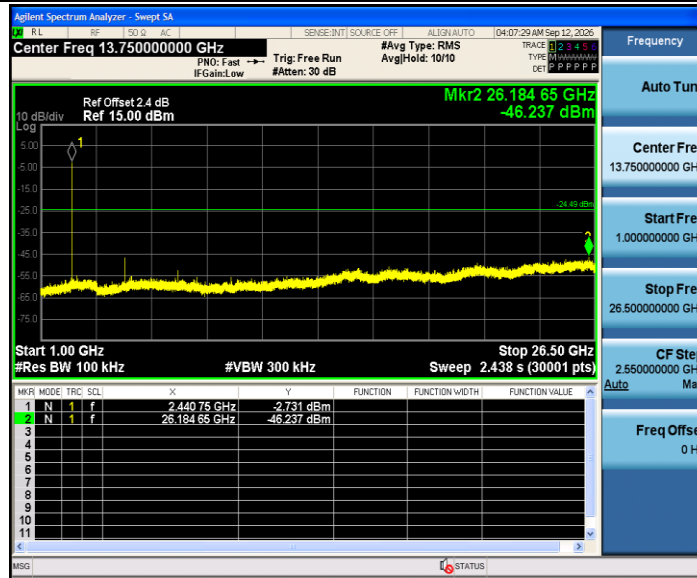
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



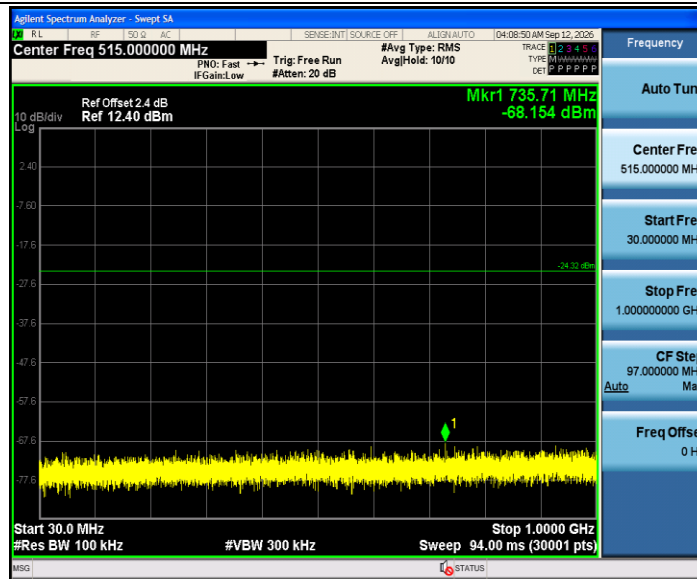
DH5_Ant1_2441_1000~26500



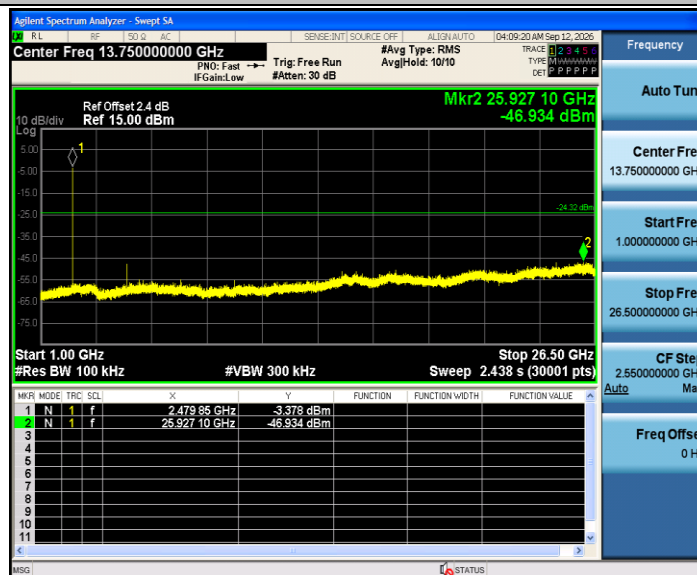
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



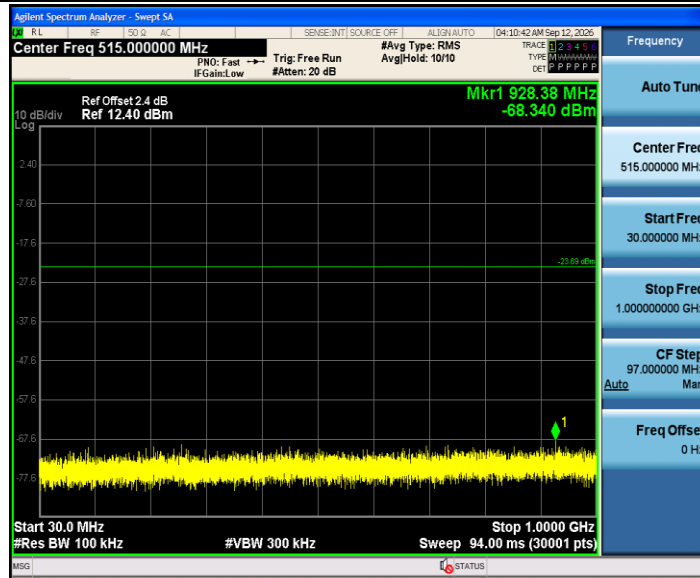
DH5_Ant1_2480_1000~26500



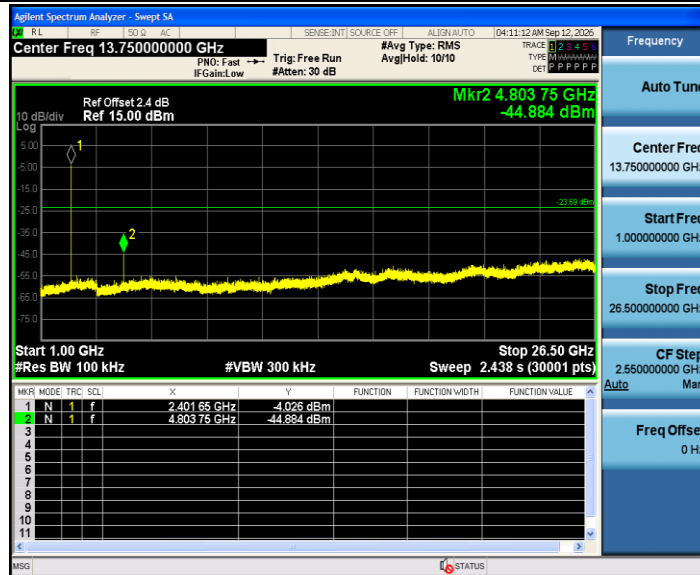
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



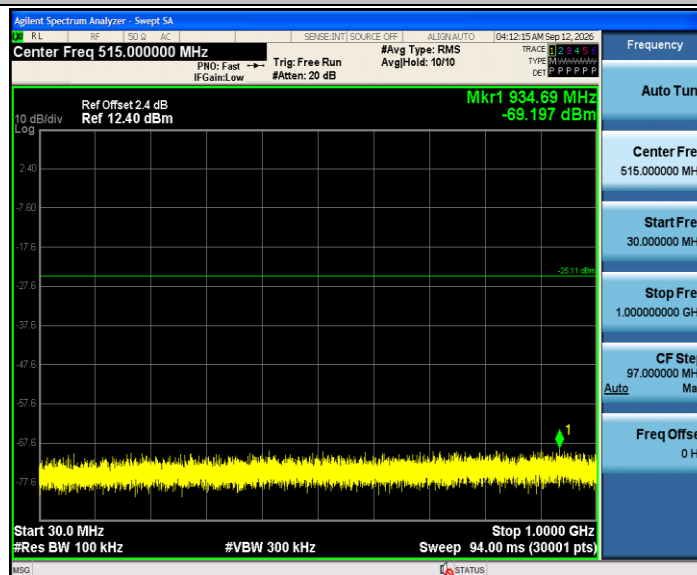
2DH5_Ant1_2402_1000~26500



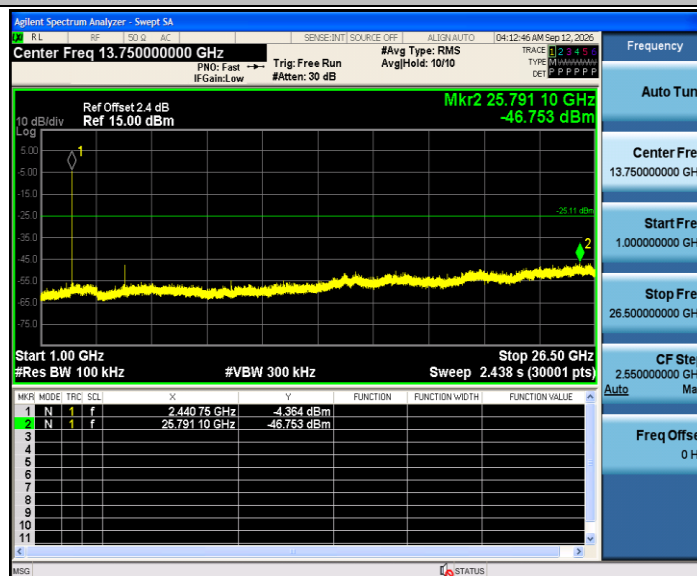
2DH5_Ant1_2441_0~Reference



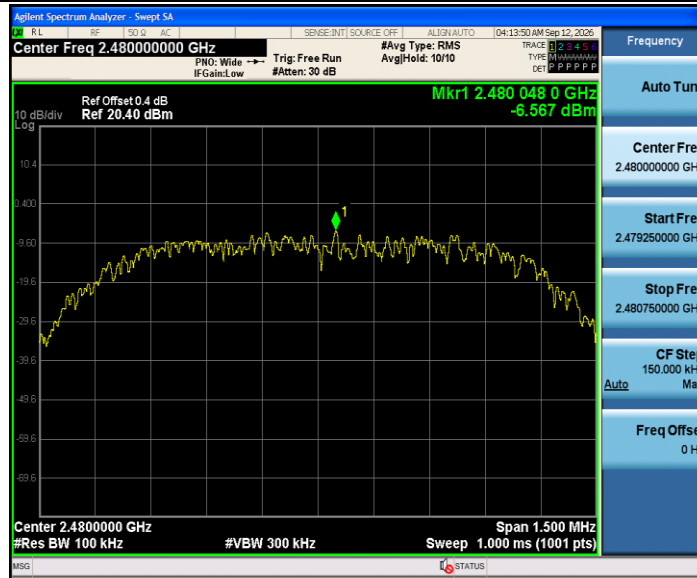
2DH5_Ant1_2441_30~1000



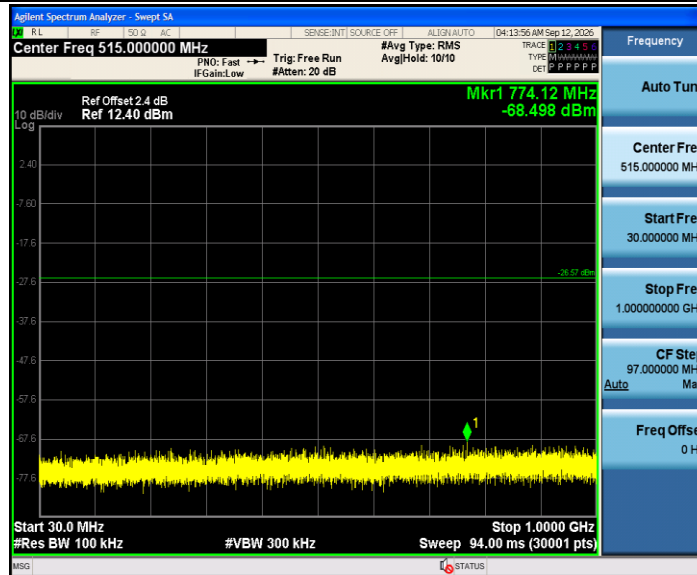
2DH5_Ant1_2441_1000~26500



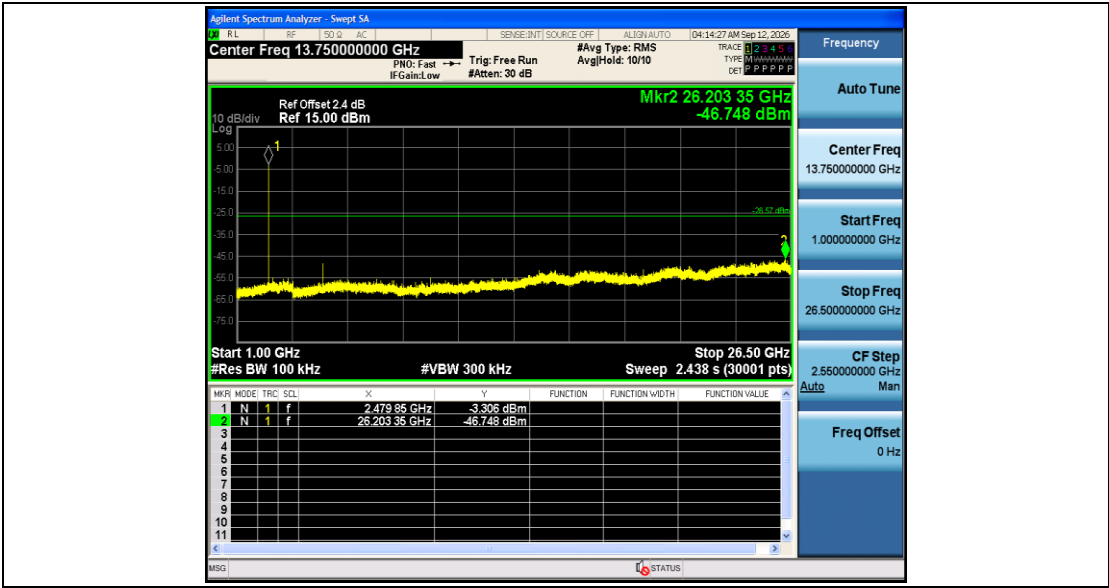
2DH5_Ant1_2480_0~Reference



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	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
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	---	---