

FCC Appendix RF Test Data for BT

FCC ID : 2BLKS-GKDT63

Company : SHENZHEN CHL INDUSTRIES CO.,LTD

EUT : Party Speaker with Flame Light

Model Number : GKDT63

Report No. : CTA26051401701

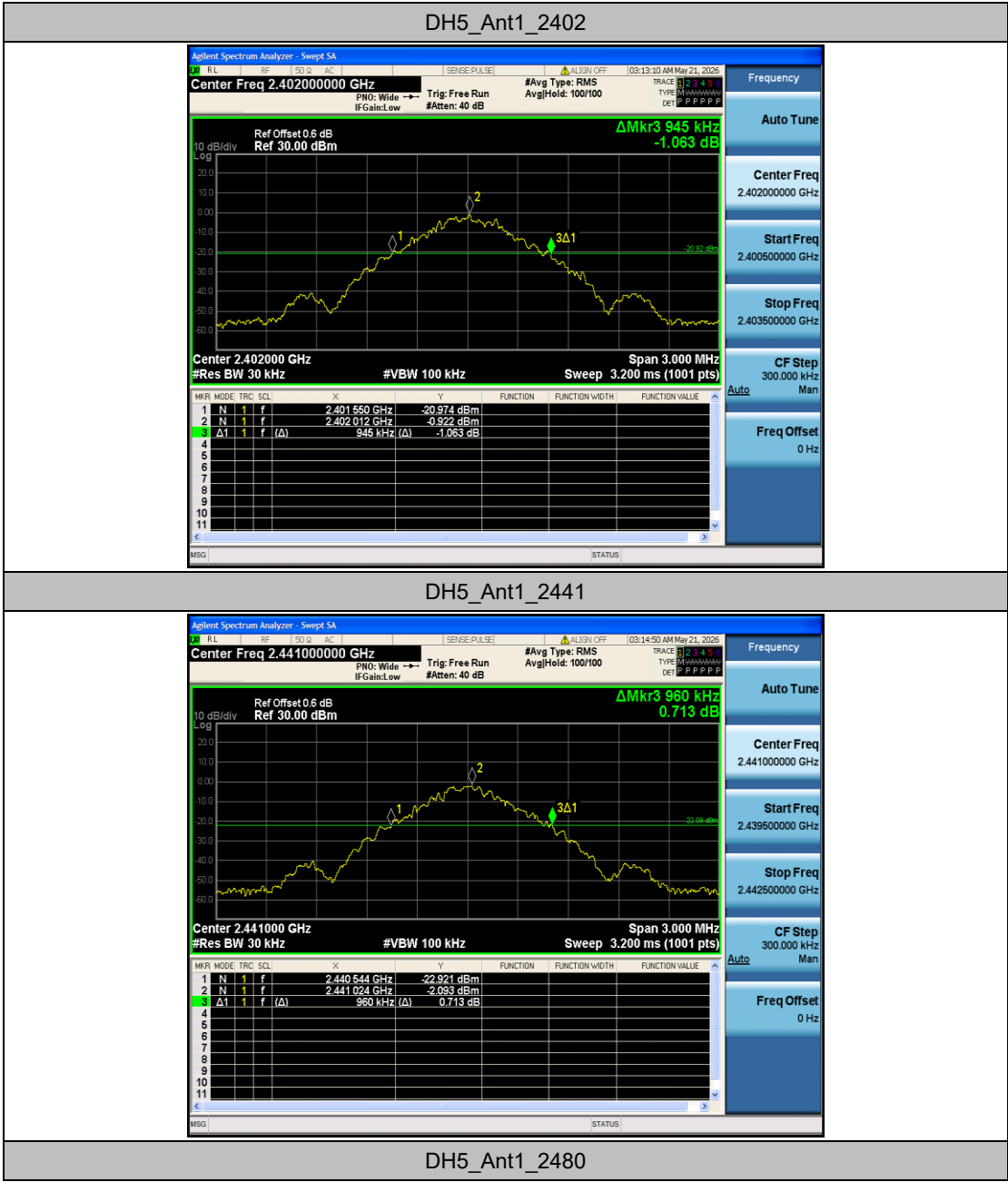
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.550	2402.495	---	---
		2441	0.960	2440.544	2441.504	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.308	2401.367	2402.675	---	---
		2441	1.329	2440.346	2441.675	---	---
		2480	1.347	2479.337	2480.684	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

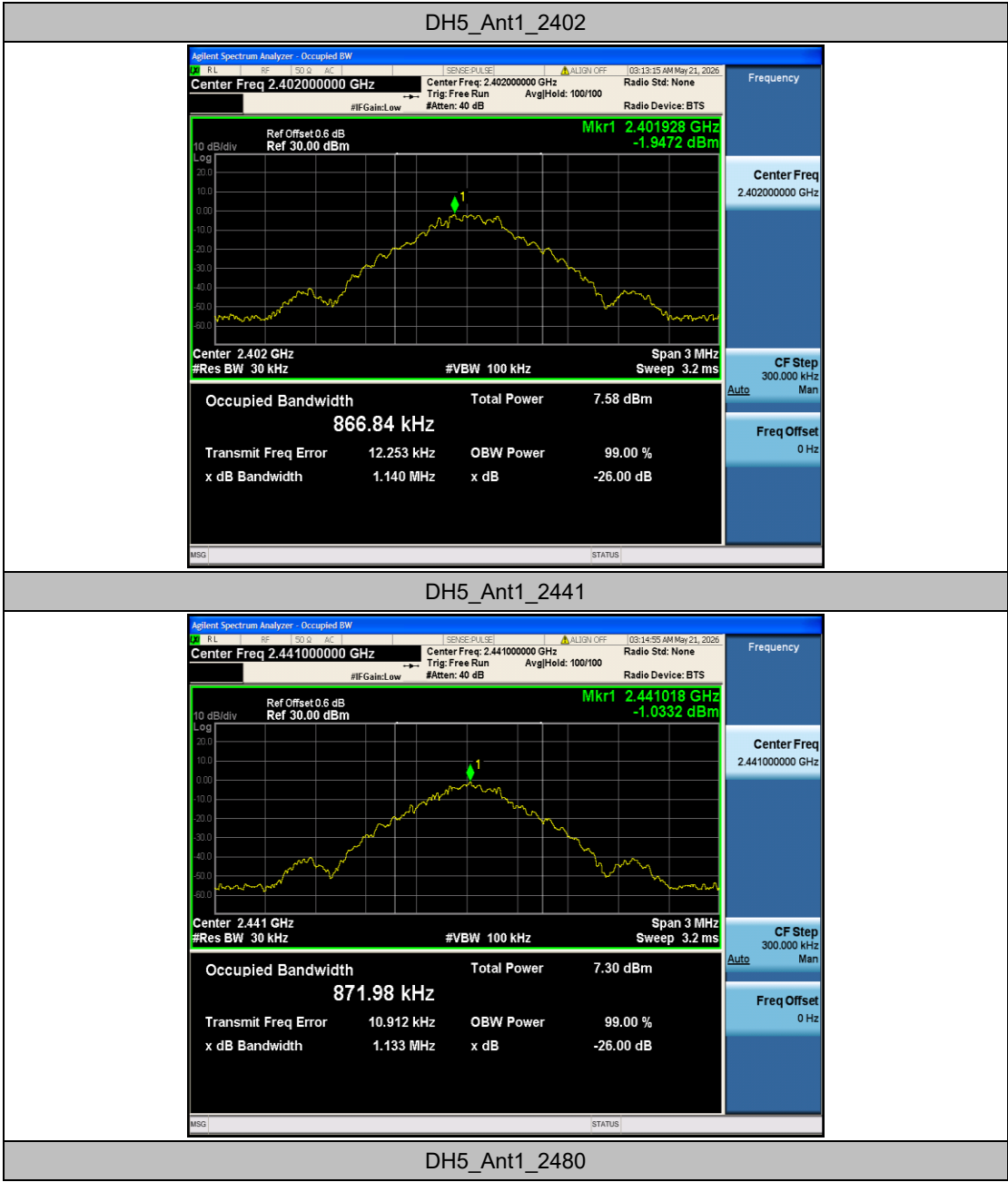


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86684	2401.5788	2402.4457	---	---
		2441	0.87198	2440.5749	2441.4469	---	---
		2480	0.85830	2479.5821	2480.4404	---	---
2DH5	Ant1	2402	1.1896	2401.4168	2402.6064	---	---
		2441	1.1950	2440.4102	2441.6052	---	---
		2480	1.1869	2479.4177	2480.6046	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

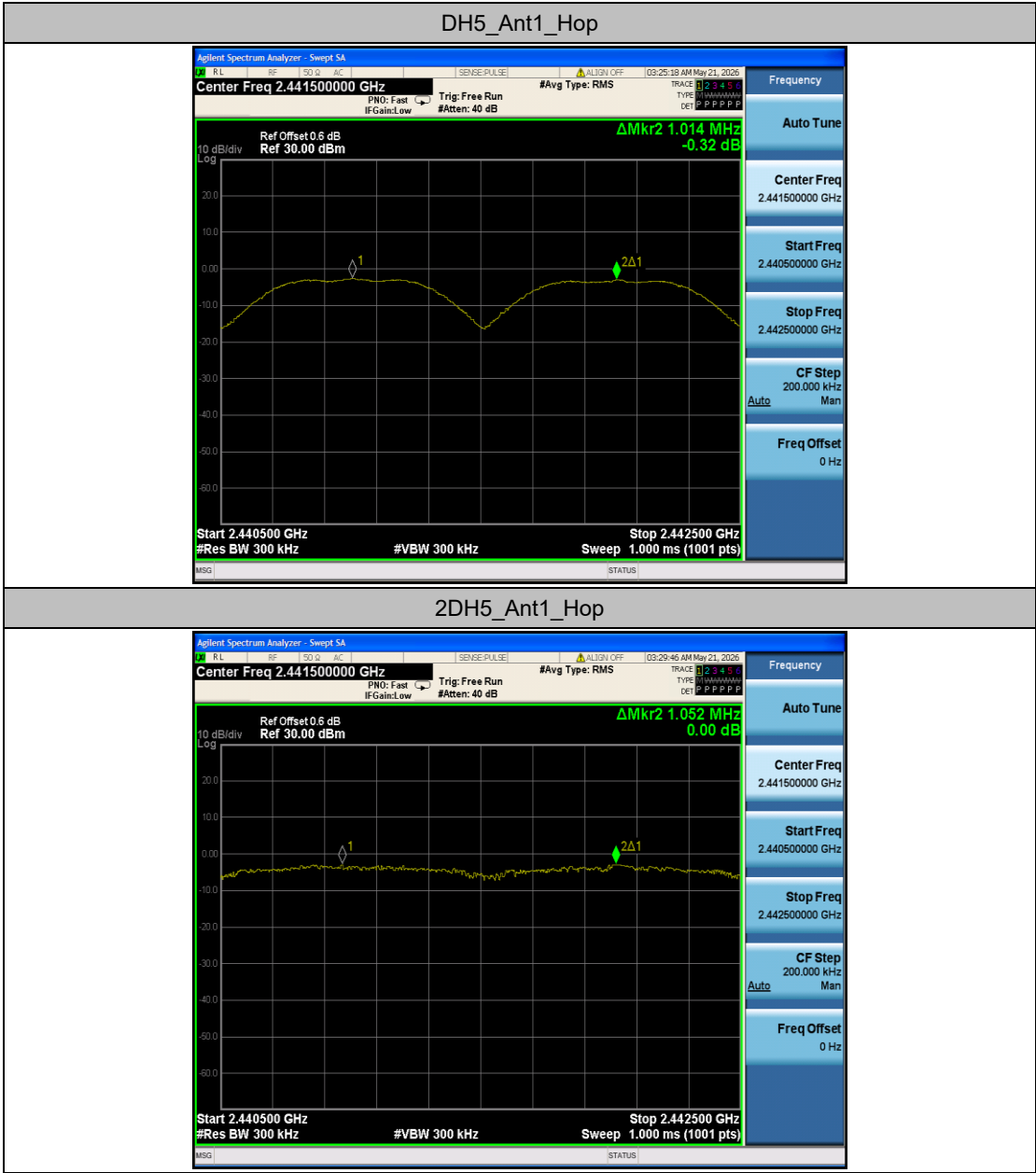
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.04	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-0.98	≤20.97	PASS
2DH5	Ant1	2402	-1.73	≤20.97	PASS
		2441	-1.56	≤20.97	PASS
		2480	-1.62	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.014	≥ 0.960	PASS
2DH5	Ant1	Hop	1.052	≥ 0.898	PASS

Test Graphs

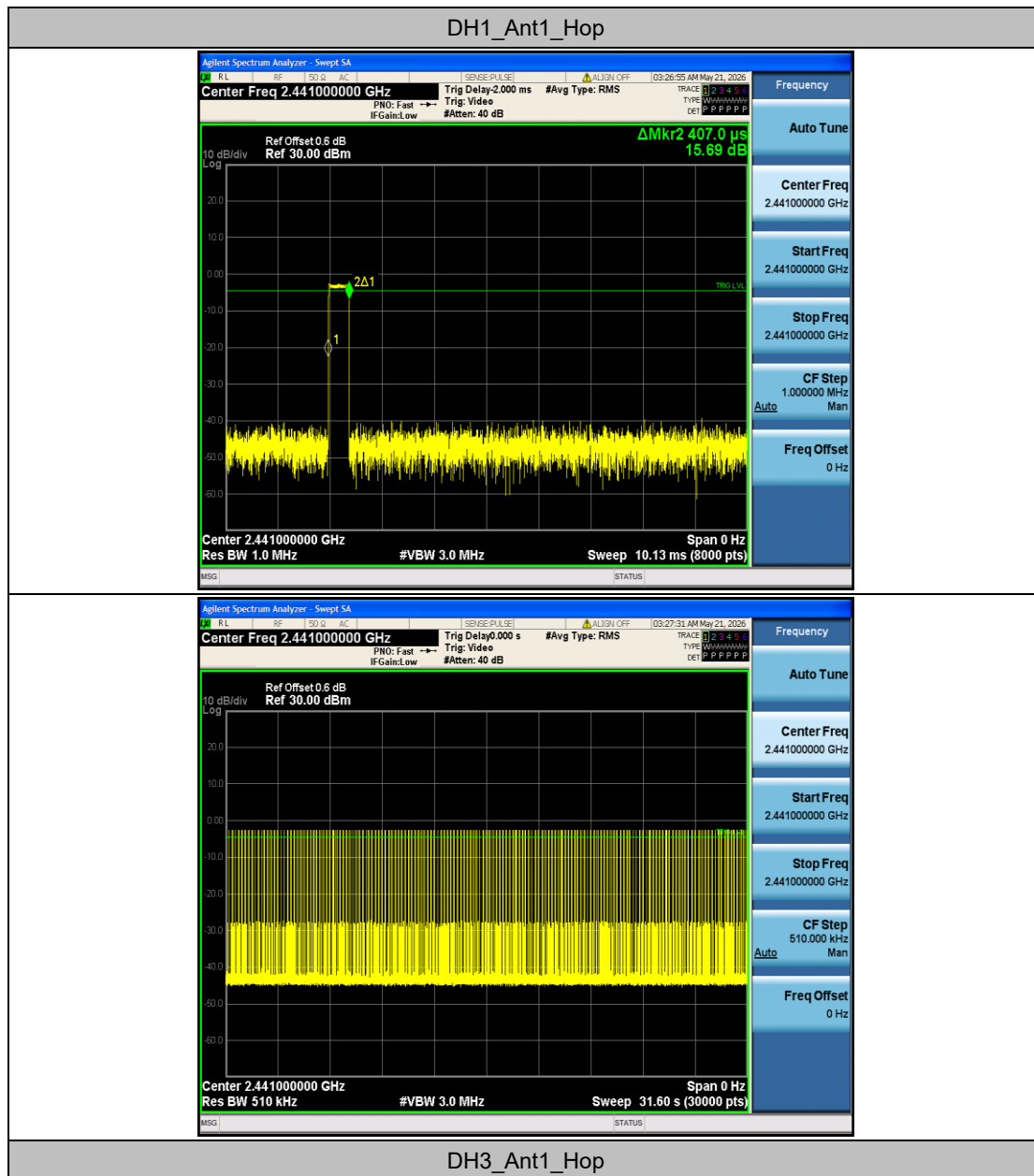


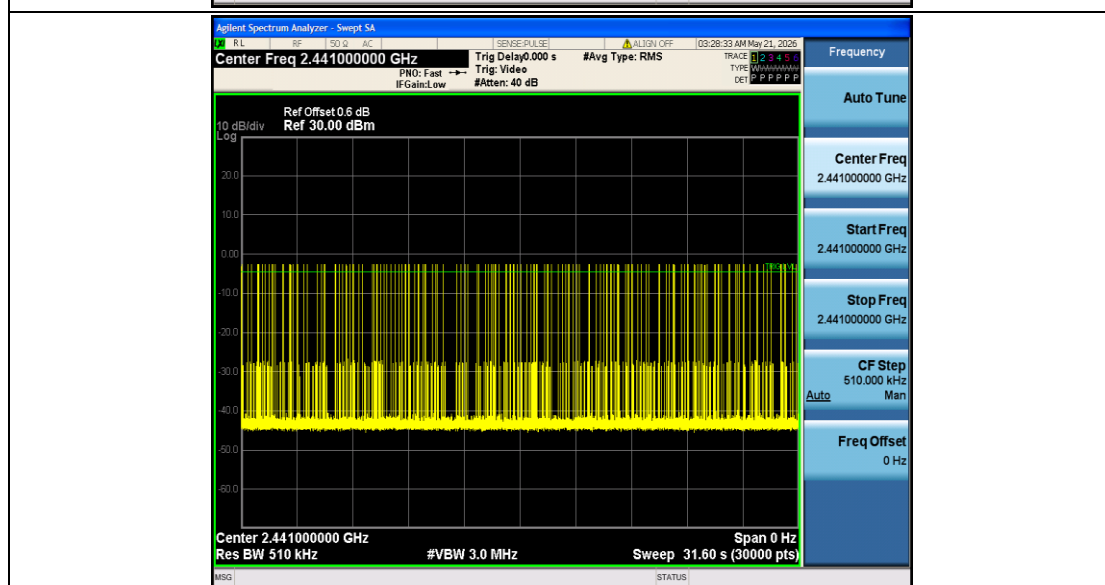
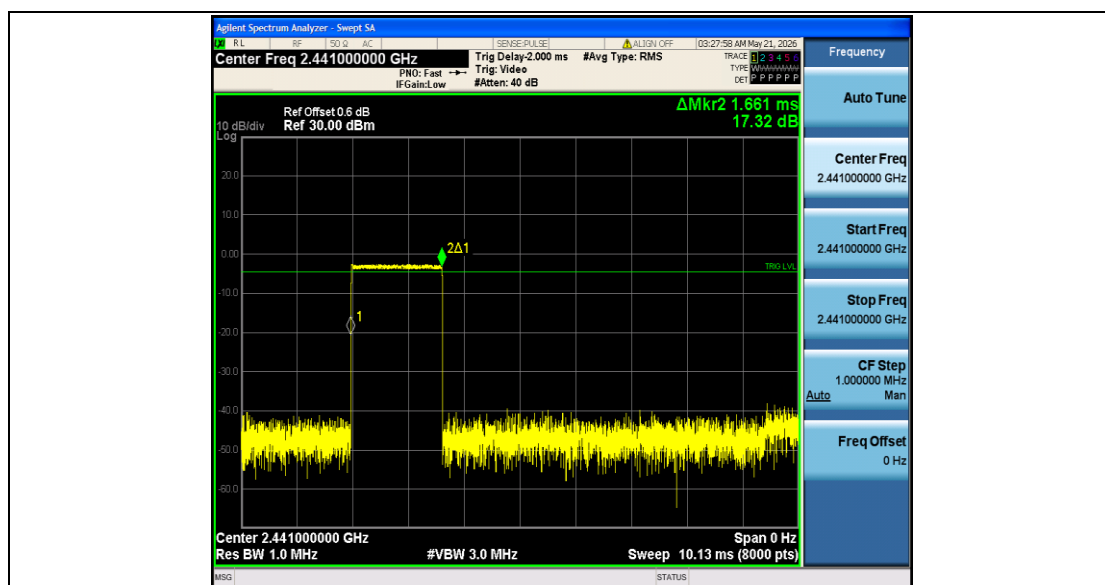
Appendix E: Time of occupancy

Test Result

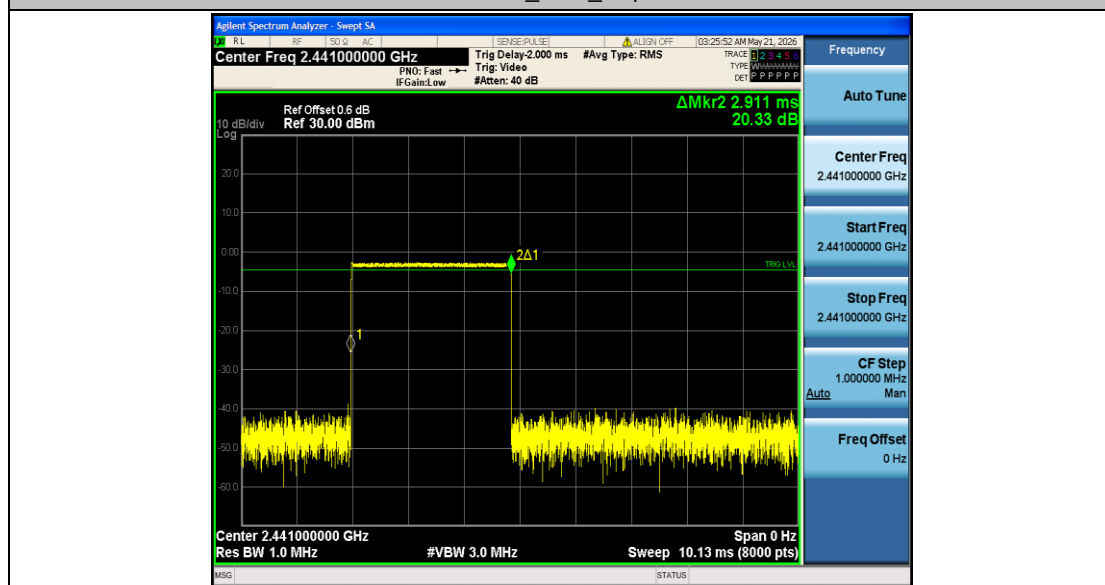
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	317	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.661	157	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.911	107	0.311	≤0.4	PASS
2DH1	Ant1	Hop	0.414	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	154	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.916	105	0.306	≤0.4	PASS

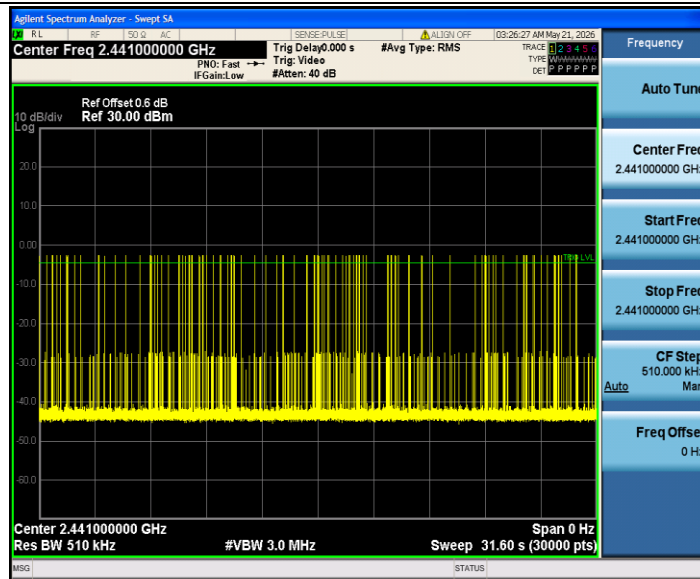
Test Graphs



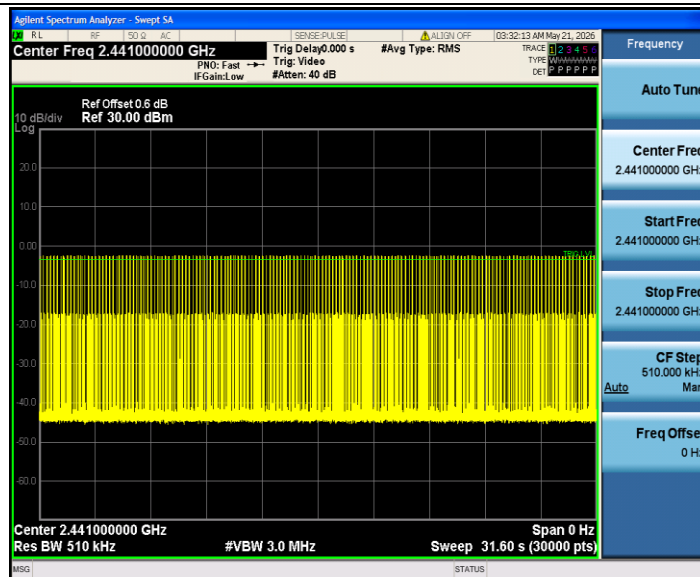
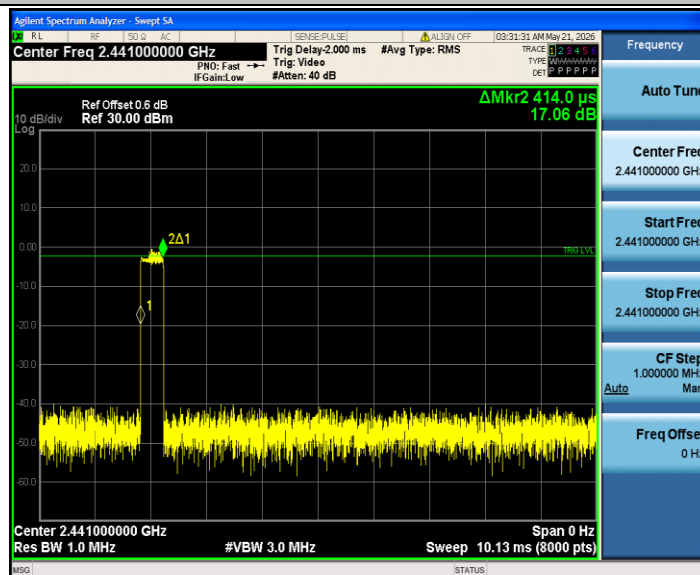


DH5_Ant1_Hop

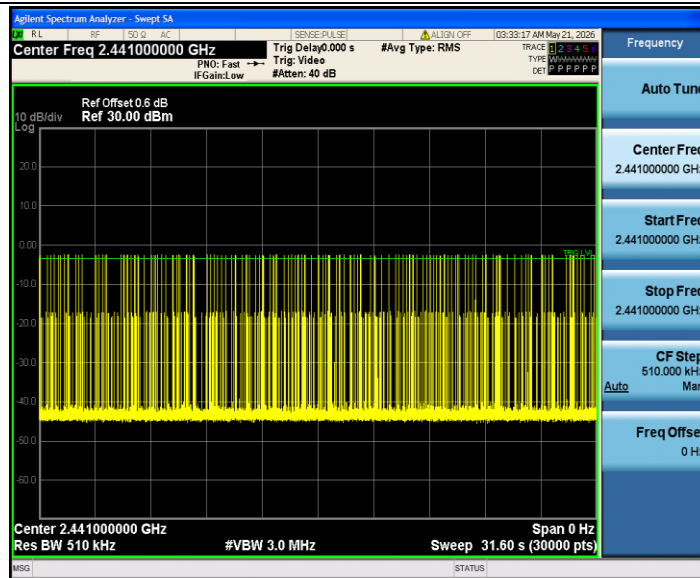
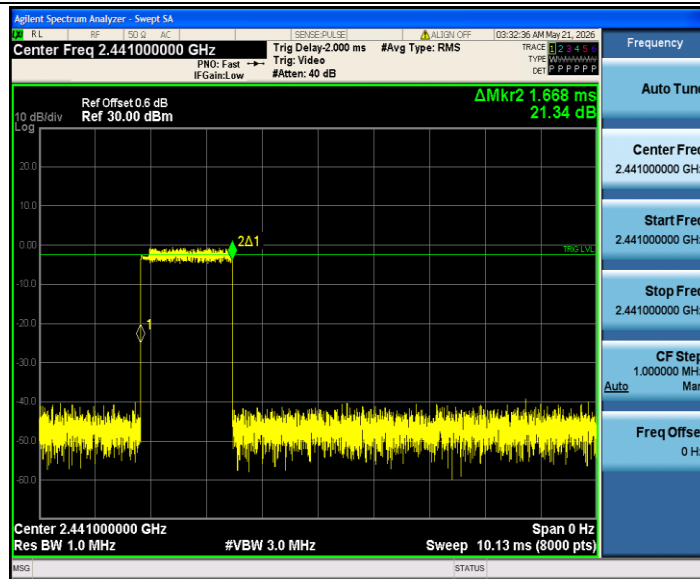




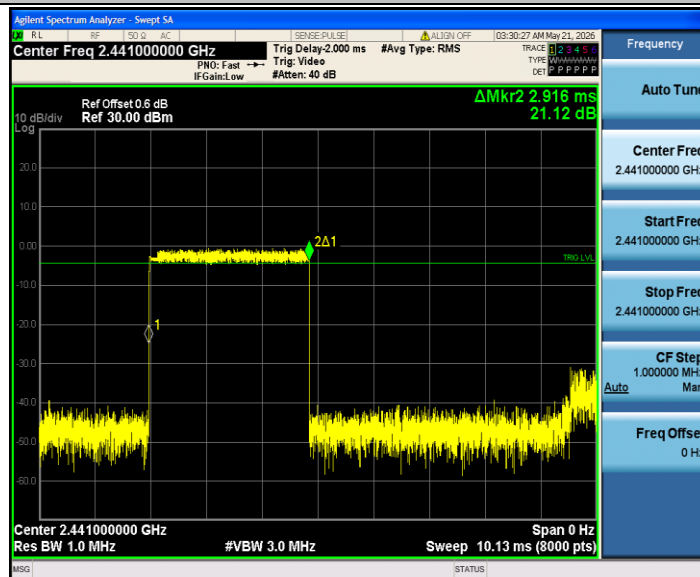
2DH1_Ant1_Hop

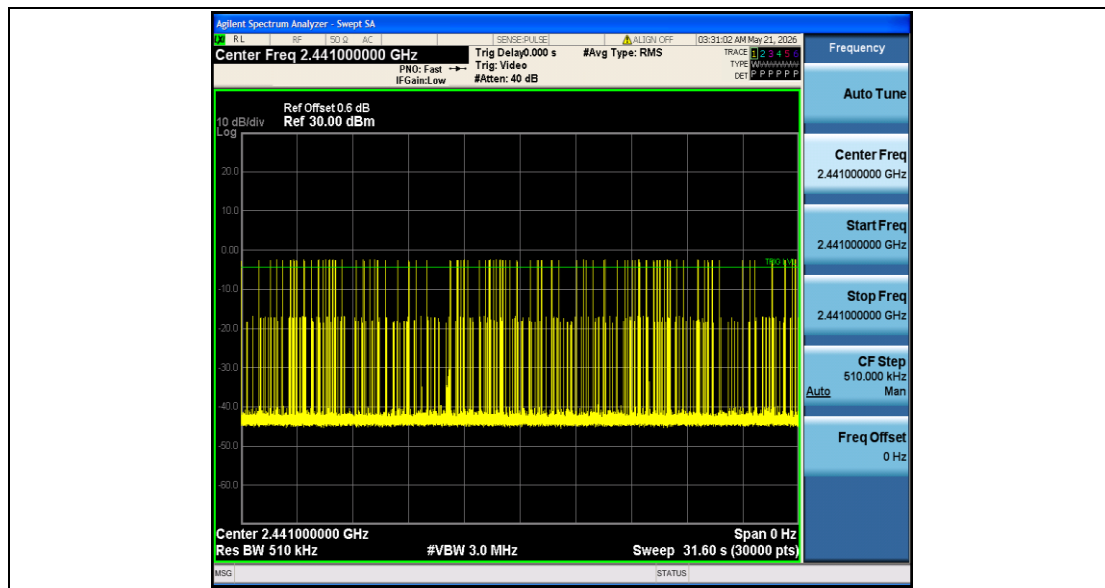


2DH3_Ant1_Hop



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

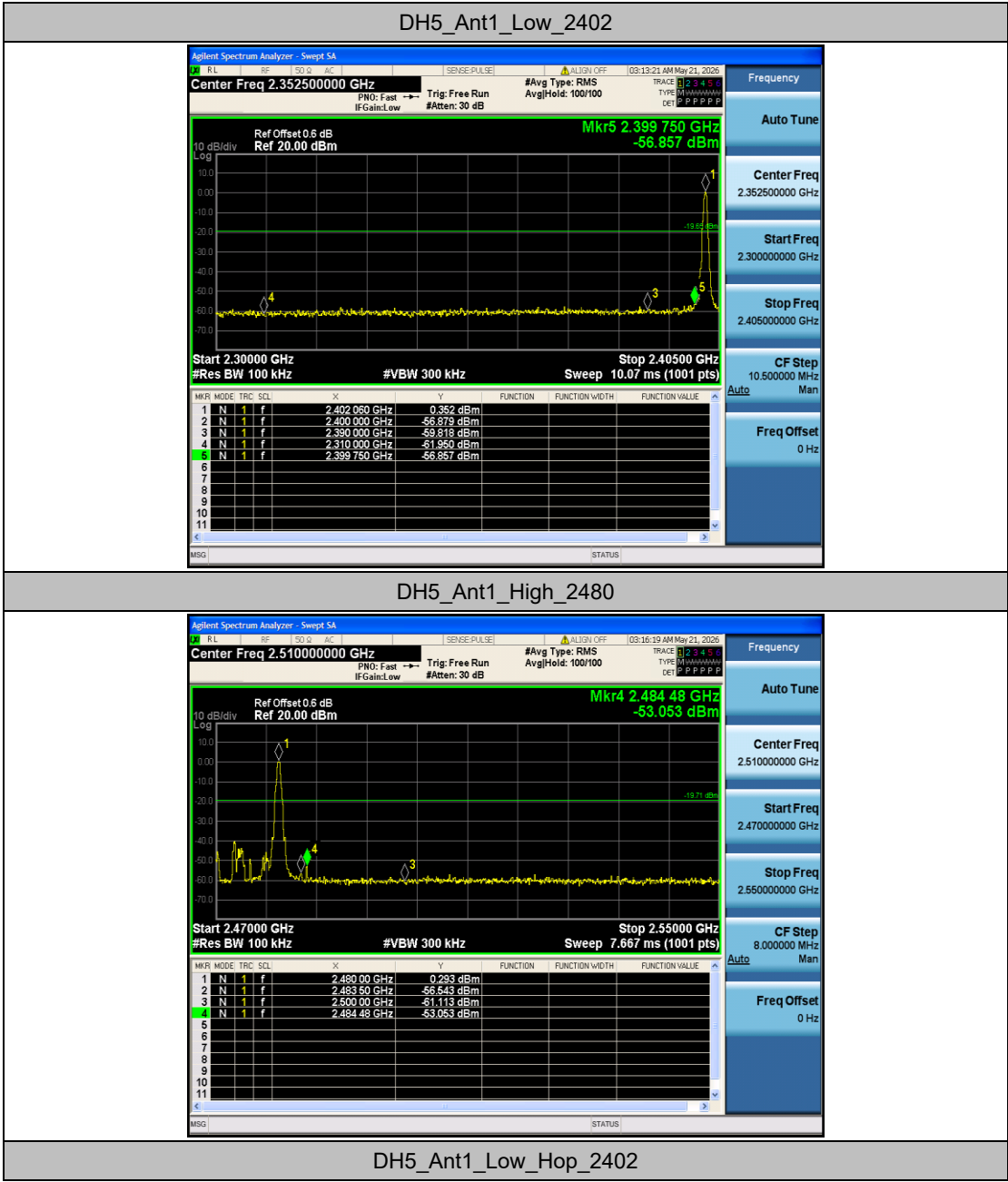


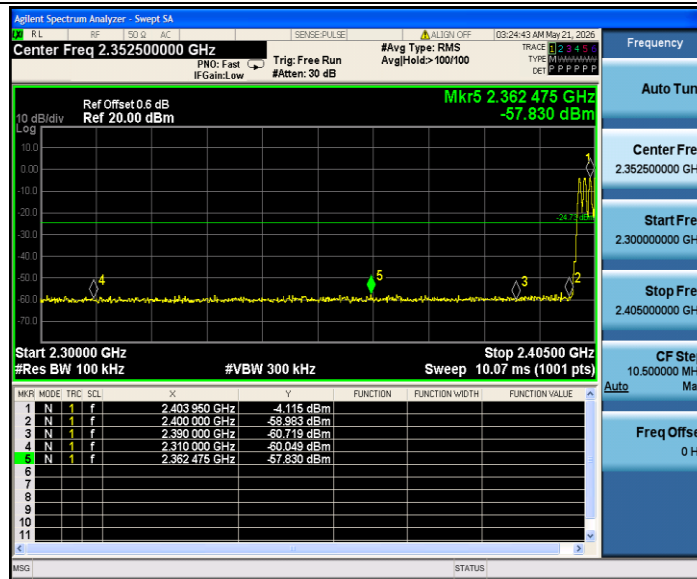
Appendix G: Band edge measurements

Test Result

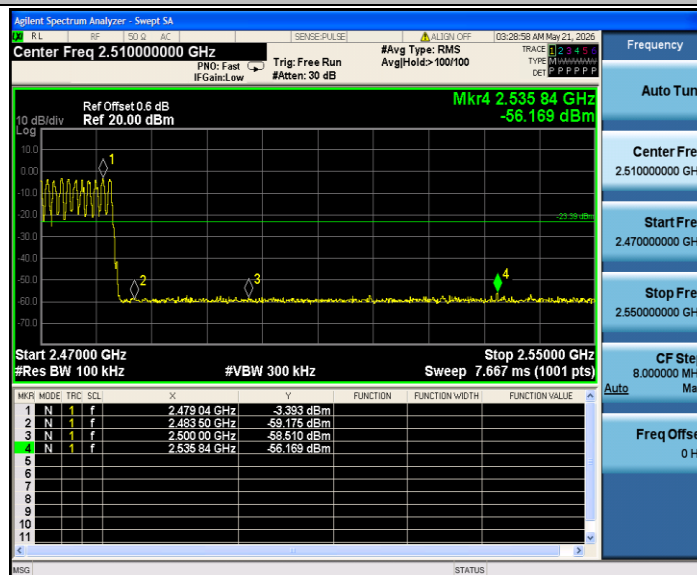
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.35	-56.86	≤ -19.65	PASS
		High	2480	0.29	-53.05	≤ -19.71	PASS
		Low	Hop_2402	-4.73	-57.83	≤ -24.73	PASS
		High	Hop_2480	-3.39	-56.17	≤ -23.39	PASS
2DH5	Ant1	Low	2402	-0.44	-48.1	≤ -20.44	PASS
		High	2480	-0.28	-56.73	≤ -20.28	PASS
		Low	Hop_2402	-5.84	-57.39	≤ -25.84	PASS
		High	Hop_2480	-6.45	-58.18	≤ -26.45	PASS

Test Graphs

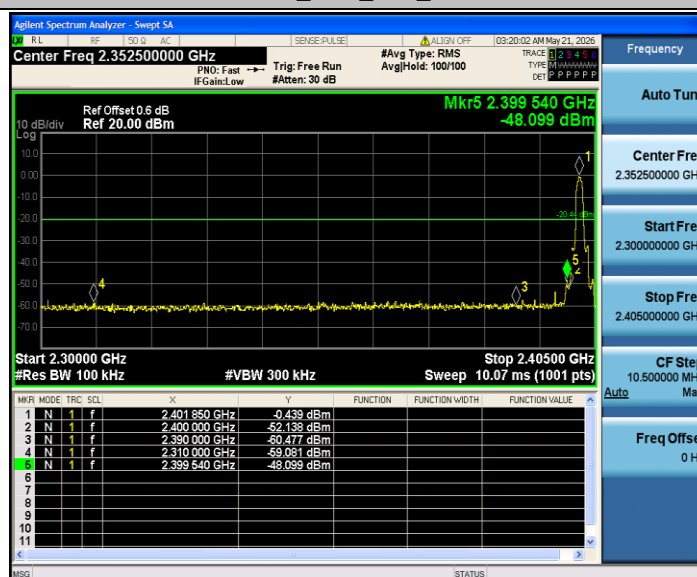




DH5_Ant1_High_Hop_2480



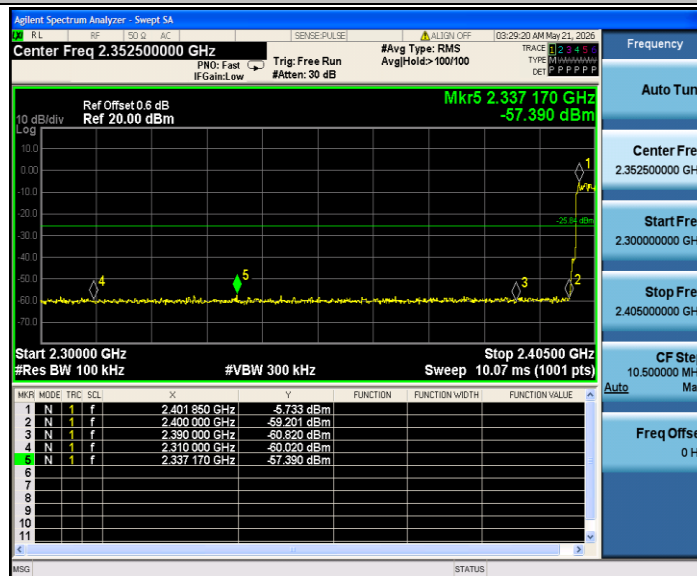
2DH5_Ant1_Low_2402



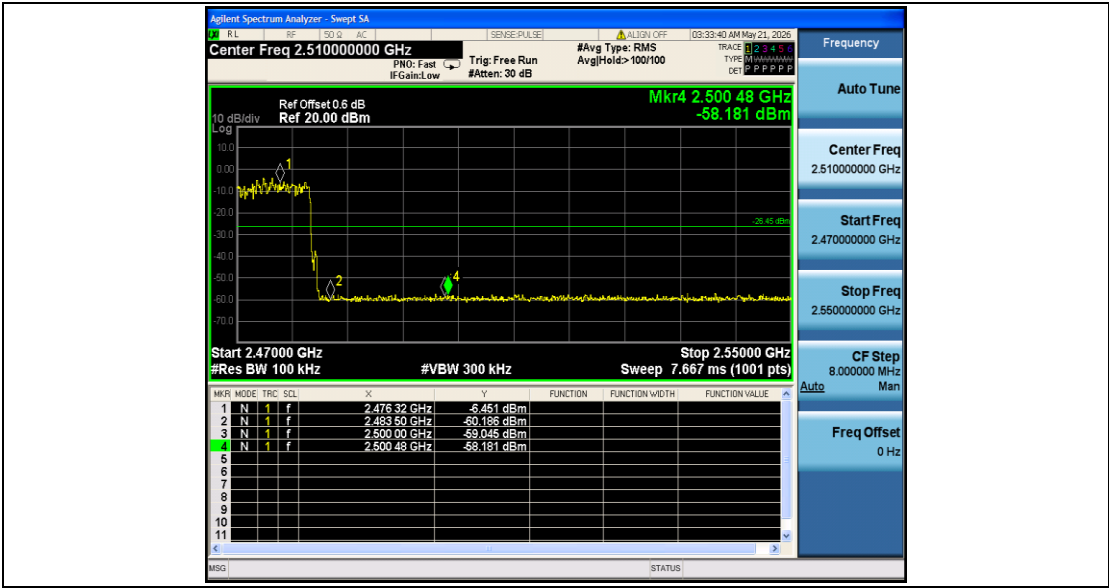
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

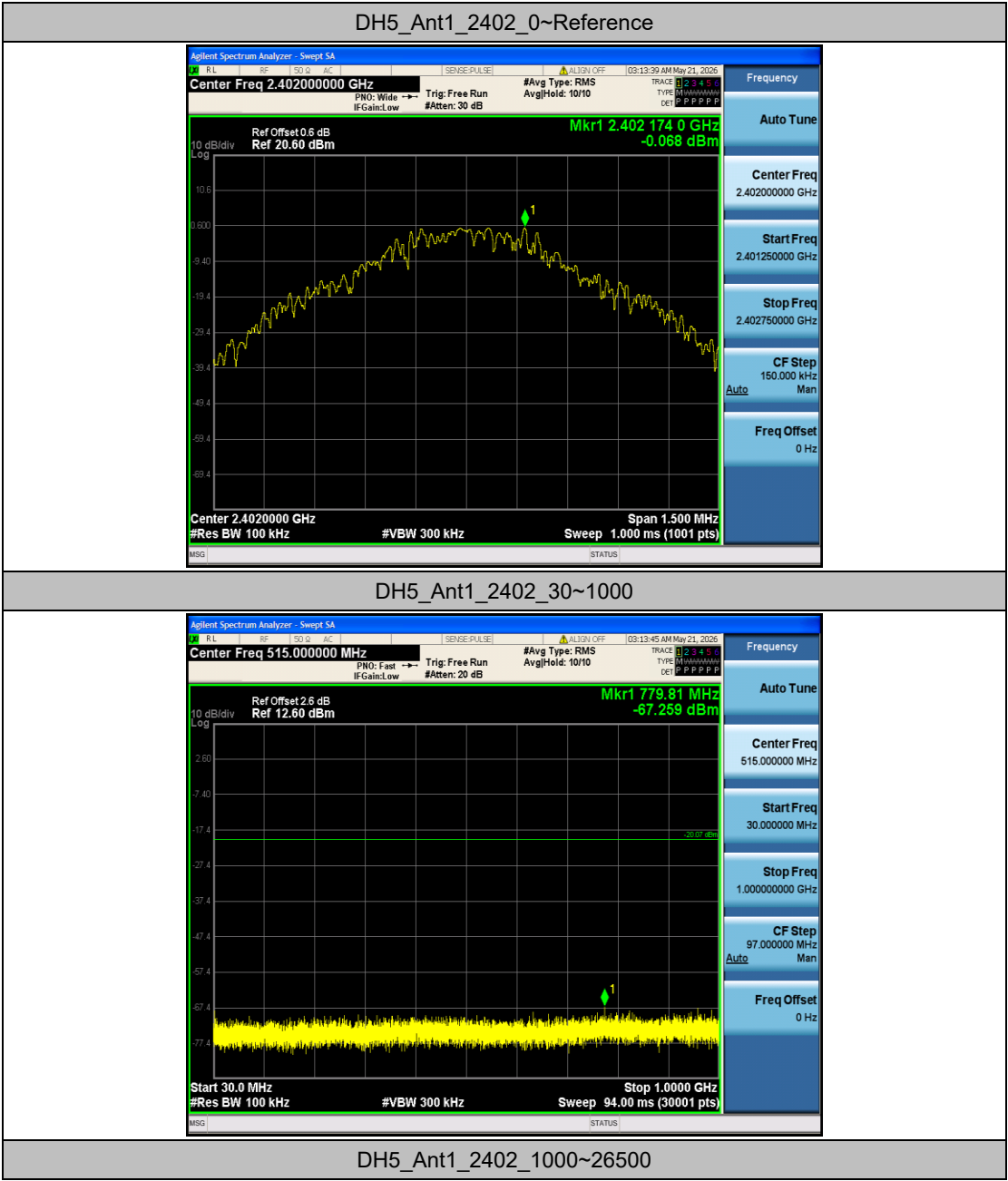


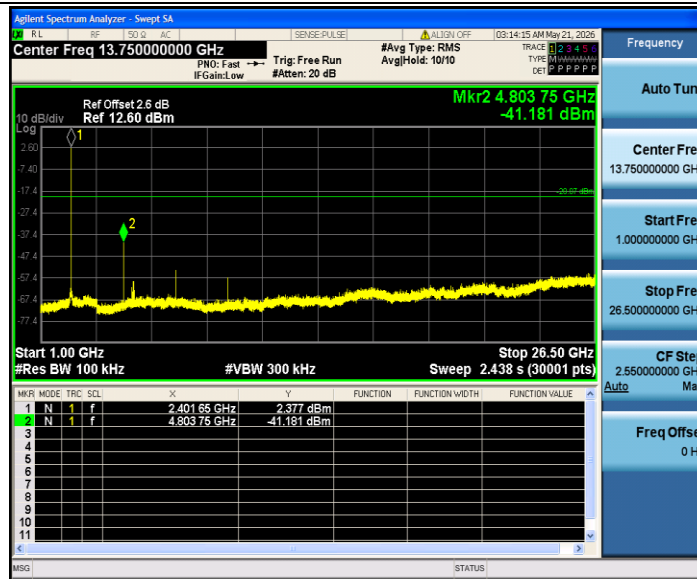
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-67.26	≤-20.07	PASS
			1000~26500	-0.07	-41.18	≤-20.07	PASS
		2441	Reference	0.17	0.17	---	PASS
			30~1000	0.17	-66.4	≤-19.83	PASS
			1000~26500	0.17	-39.97	≤-19.83	PASS
		2480	Reference	-0.28	-0.28	---	PASS
			30~1000	-0.28	-67.67	≤-20.28	PASS
			1000~26500	-0.28	-40.28	≤-20.28	PASS
2DH5	Ant1	2402	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-34.76	≤-19.9	PASS
			1000~26500	0.10	-42.28	≤-19.9	PASS
		2441	Reference	-1.52	-1.52	---	PASS
			30~1000	-1.52	-64.11	≤-21.52	PASS
			1000~26500	-1.52	-43.12	≤-21.52	PASS
		2480	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-67.52	≤-21.69	PASS
			1000~26500	-1.69	-41.68	≤-21.69	PASS

Test Graphs

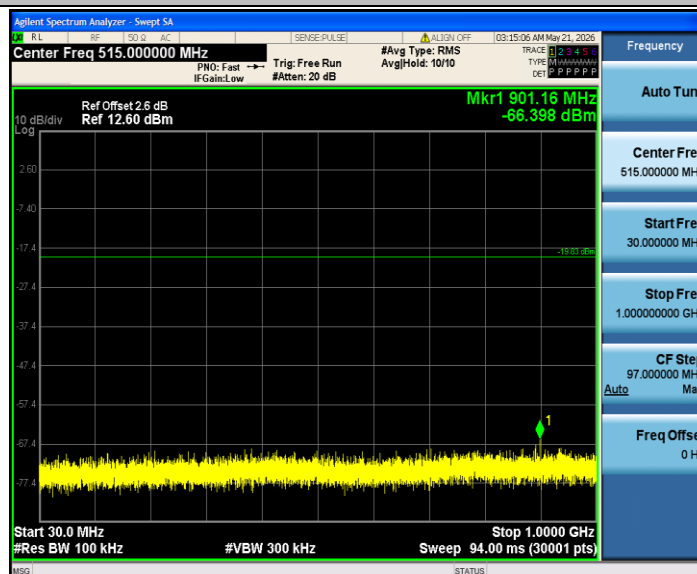




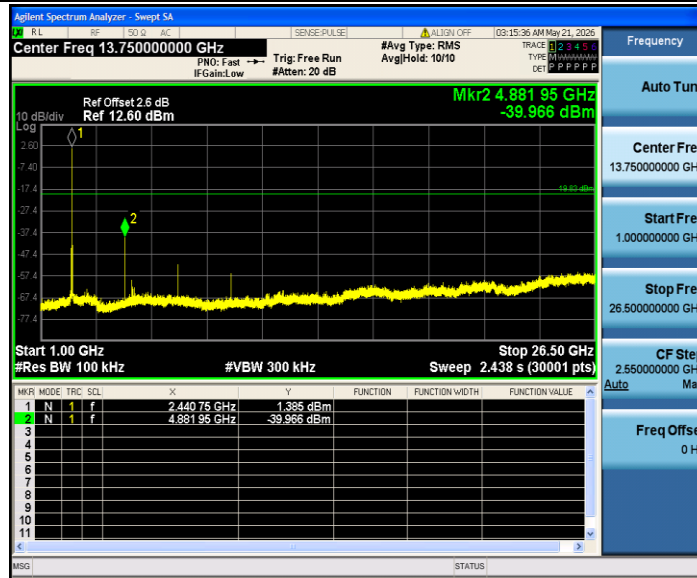
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



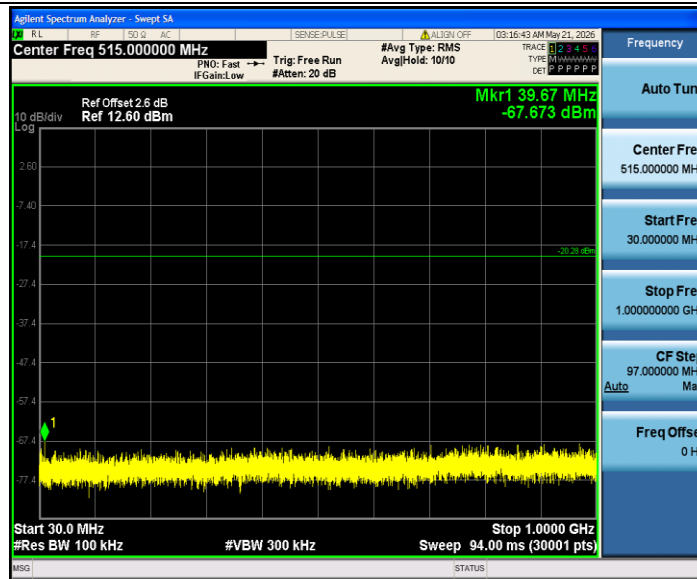
DH5_Ant1_2441_1000~26500



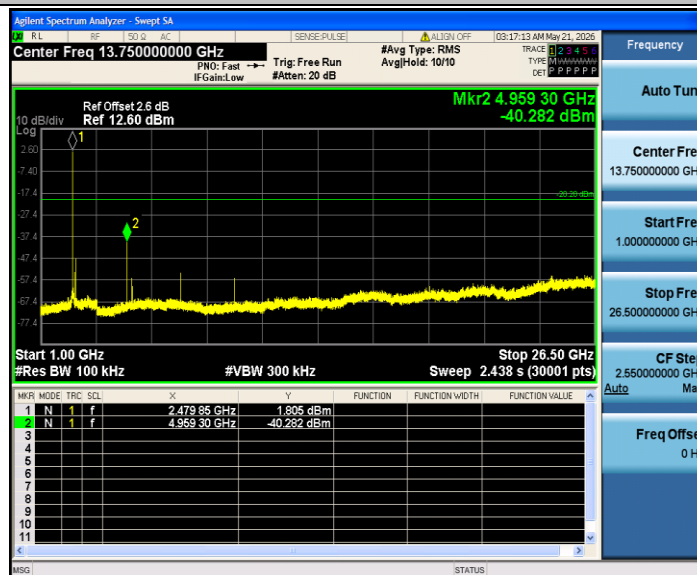
DH5_Ant1_2480_0~Reference



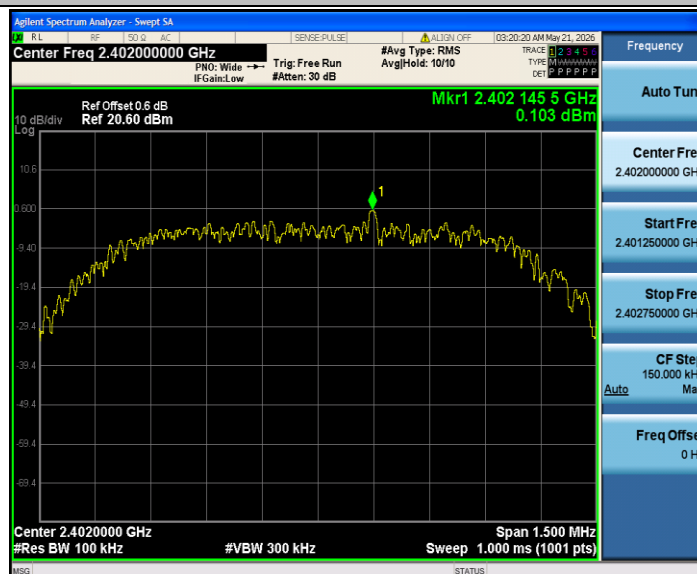
DH5_Ant1_2480_30~1000



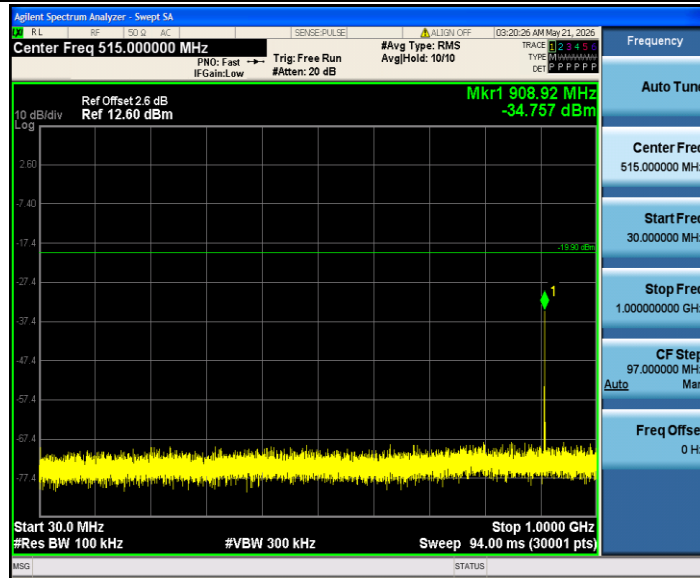
DH5_Ant1_2480_1000~26500



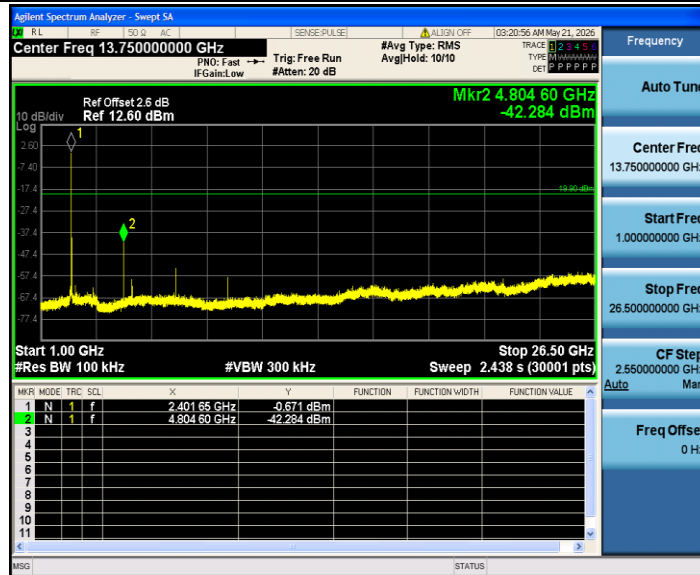
2DH5_Ant1_2402_0~Reference



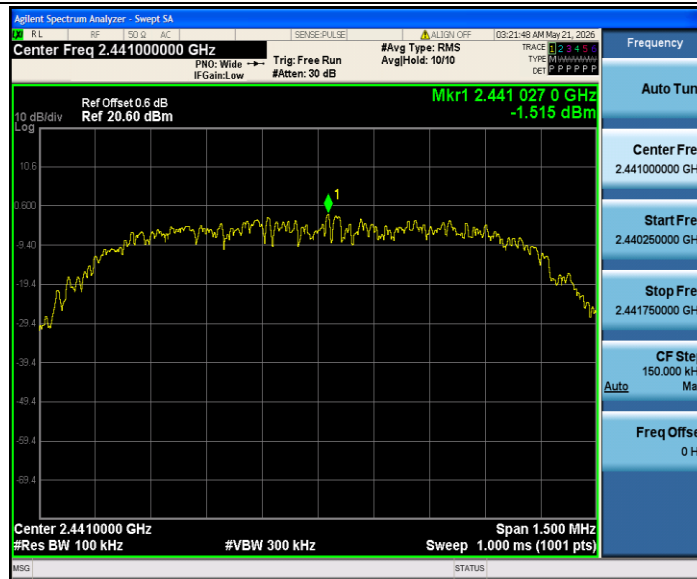
2DH5_Ant1_2402_30~1000



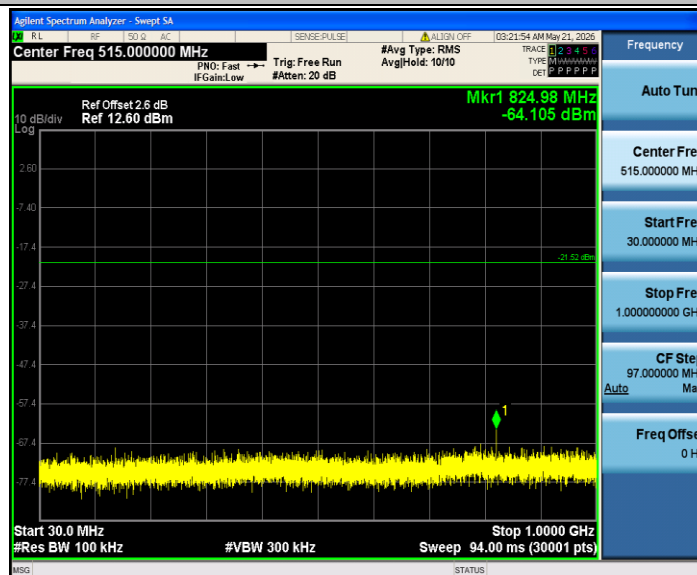
2DH5_Ant1_2402_1000~26500



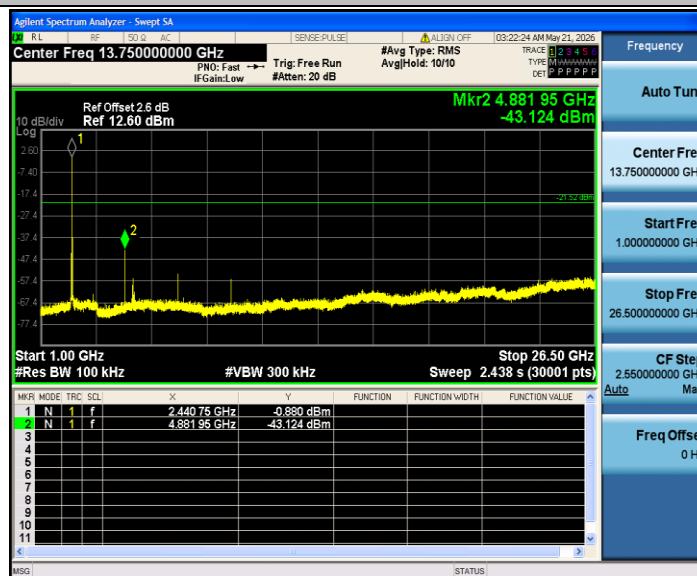
2DH5_Ant1_2441_0~Reference



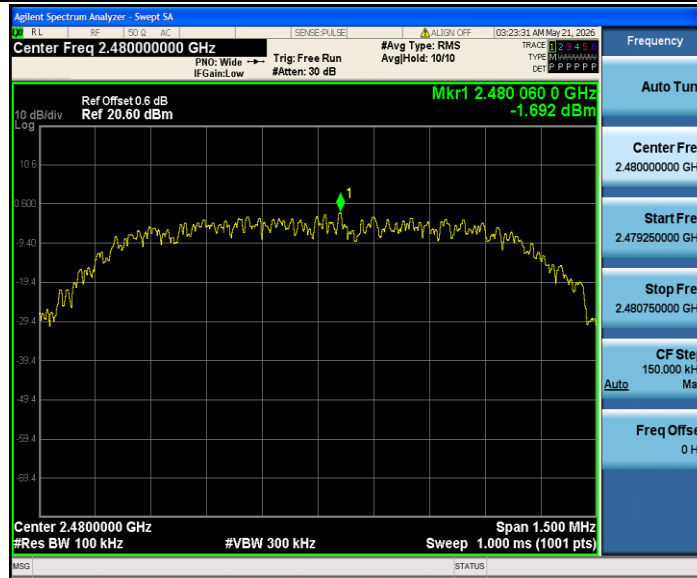
2DH5_Ant1_2441_30~1000



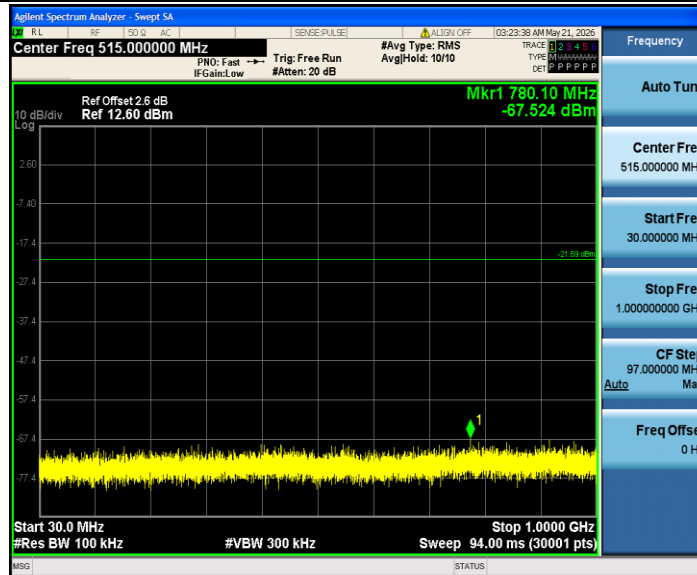
2DH5_Ant1_2441_1000~26500



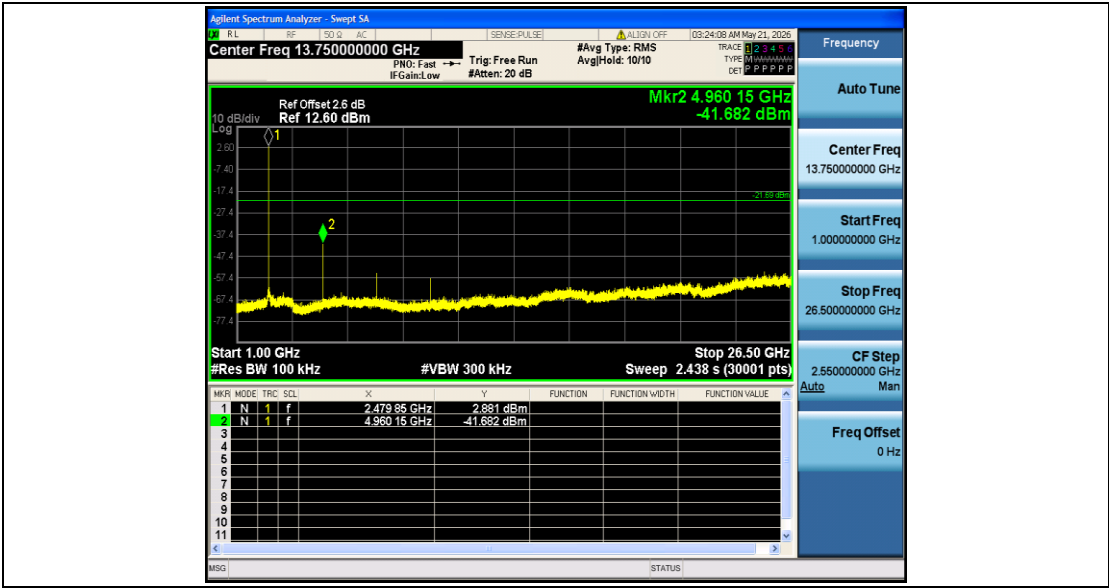
2DH5_Ant1_2480_0~Reference



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	3.76	77.66	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.76	77.66	1.10	---	---