

FCC Appendix RF Test Data for BT

FCC ID : 2AYZG-DS2266

Company : ShenZhen litian technology Co.,Ltd

EUT : Wireless Charging Alarm Clock

Model Number : DS2266

Report No. : CTA26032700901

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	2401.544	2402.492	---	---
		2441	0.966	2440.538	2441.504	---	---
		2480	0.960	2479.544	2480.504	---	---
2DH5	Ant1	2402	1.278	2401.379	2402.657	---	---
		2441	1.329	2440.343	2441.672	---	---
		2480	1.359	2479.331	2480.690	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

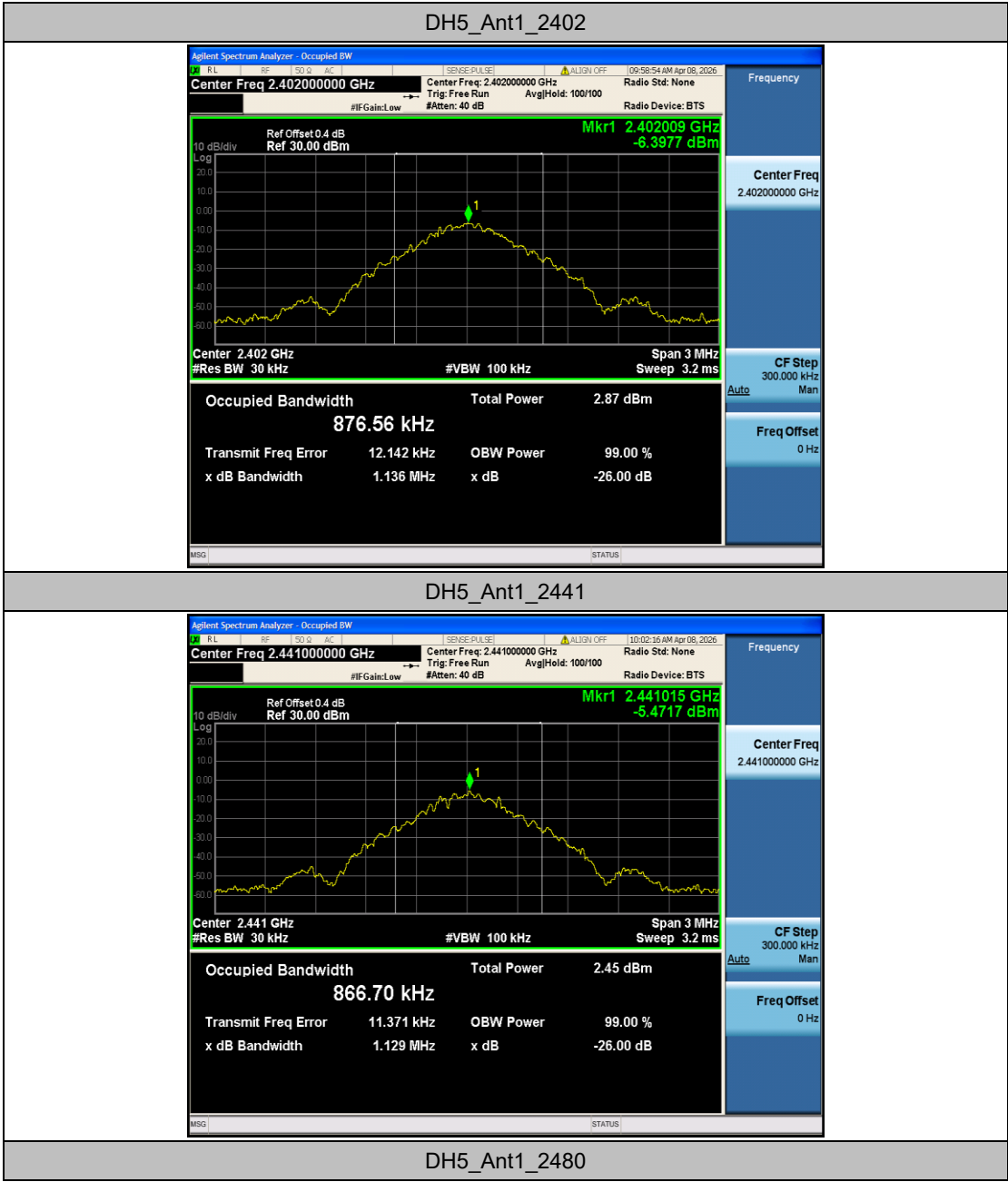


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87656	2401.5739	2402.4504	---	---
		2441	0.86670	2440.5780	2441.4447	---	---
		2480	0.85571	2479.5798	2480.4355	---	---
2DH5	Ant1	2402	1.1814	2401.4189	2402.6003	---	---
		2441	1.1777	2440.4203	2441.5980	---	---
		2480	1.1772	2479.4204	2480.5976	---	---

Test Graphs





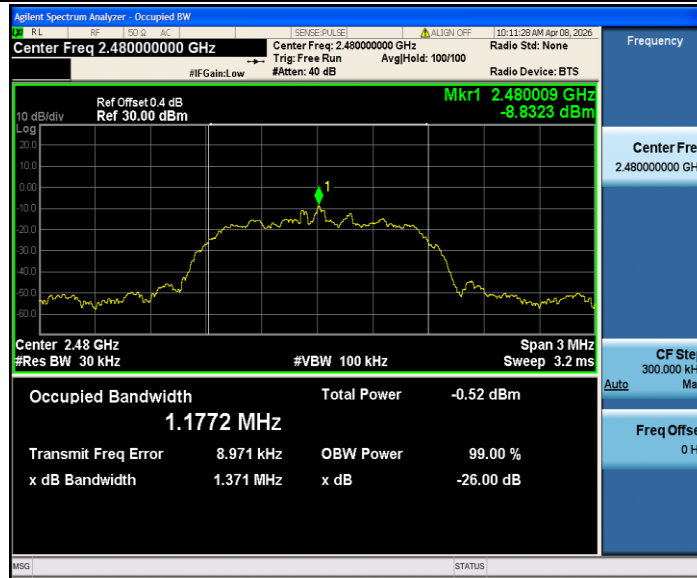
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

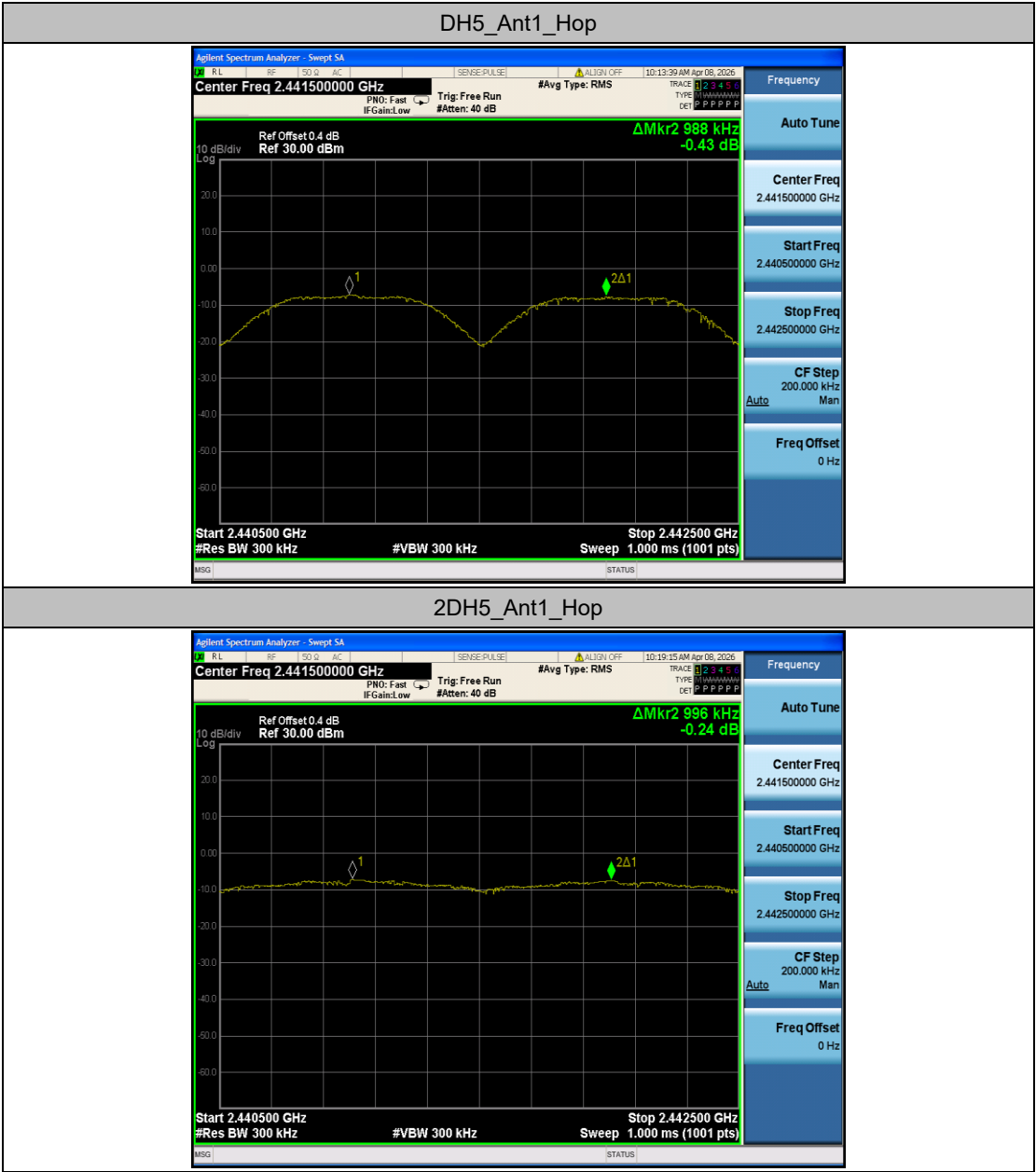
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.35	≤20.97	PASS
		2441	-3.85	≤20.97	PASS
		2480	-4.14	≤20.97	PASS
2DH5	Ant1	2402	-4.15	≤20.97	PASS
		2441	-4.55	≤20.97	PASS
		2480	-4.94	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.988	≥ 0.966	PASS
2DH5	Ant1	Hop	0.996	≥ 0.906	PASS

Test Graphs

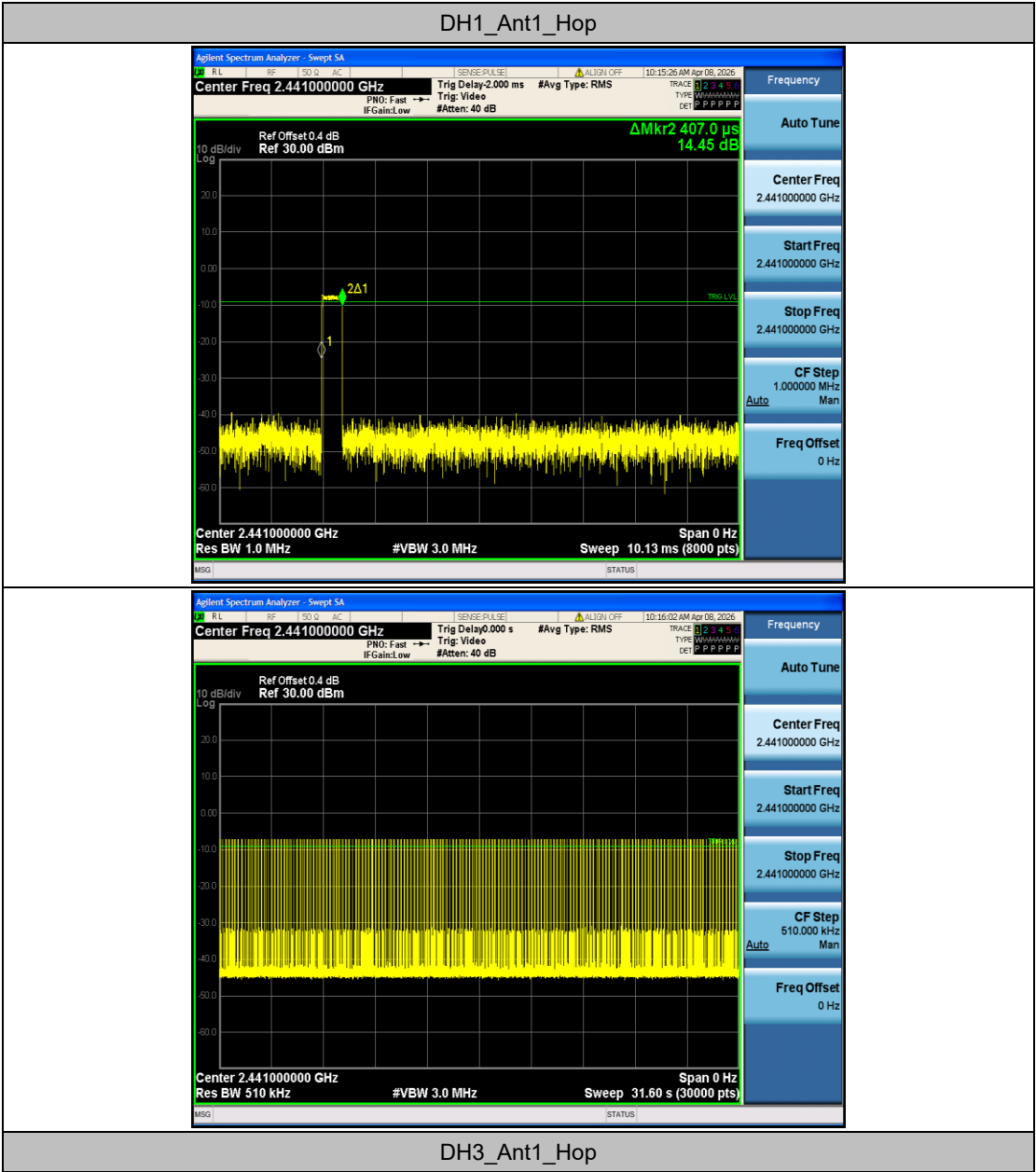


Appendix E: Time of occupancy

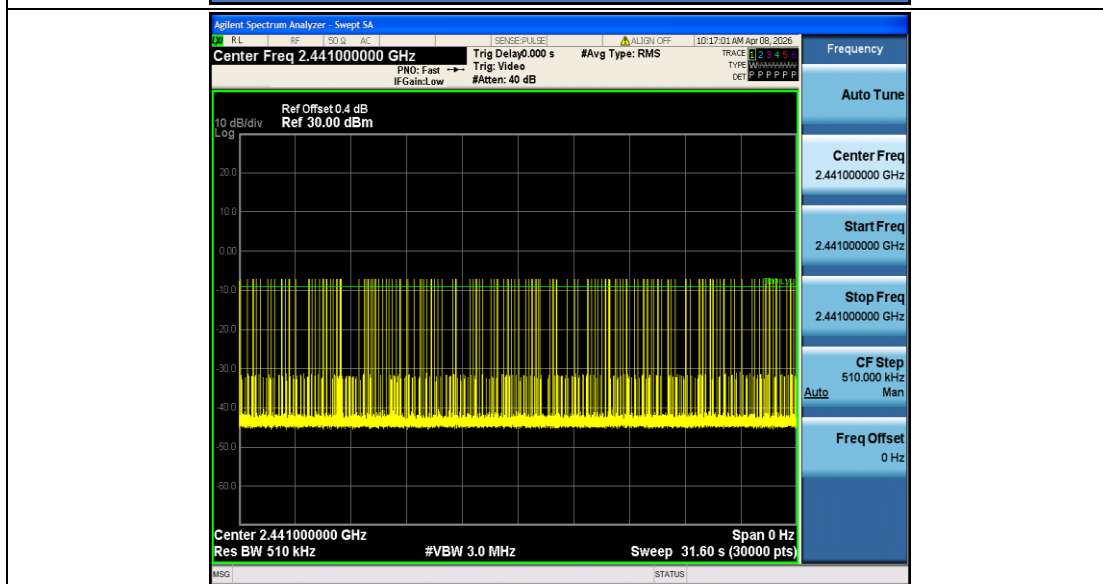
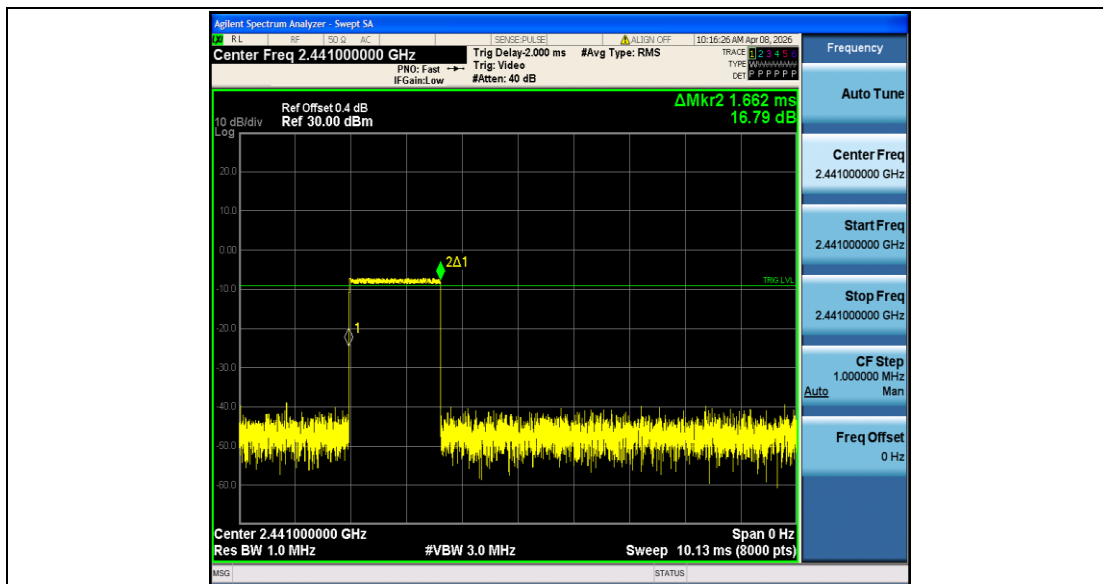
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	318	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	157	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.911	105	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	156	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.916	112	0.327	≤0.4	PASS

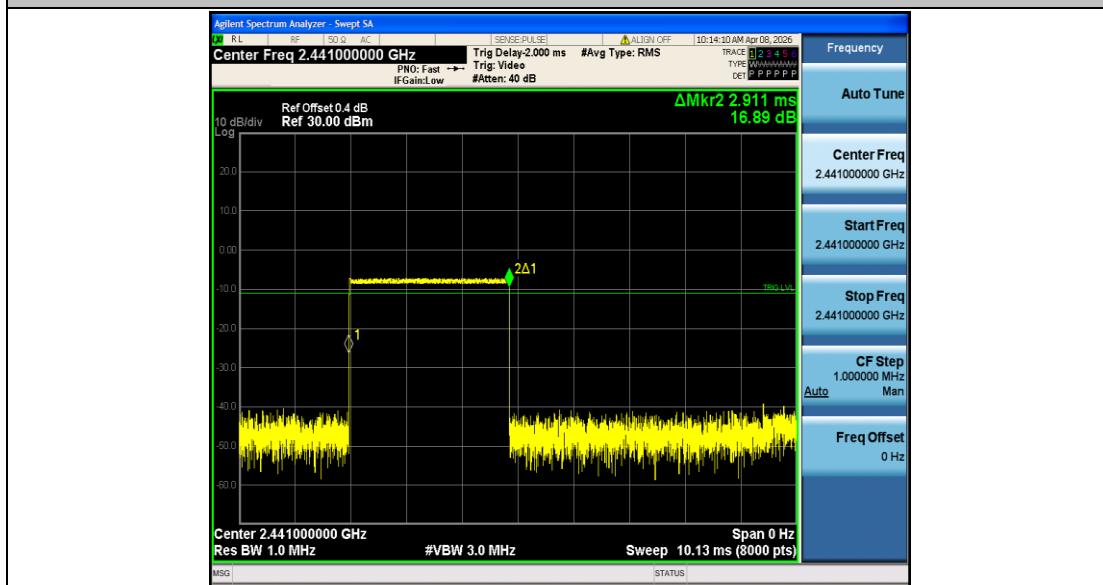
Test Graphs

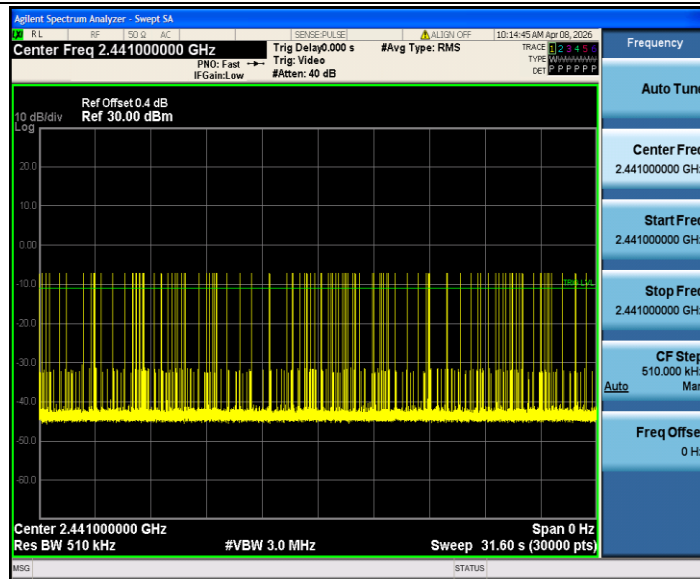


DH3_Ant1_Hop

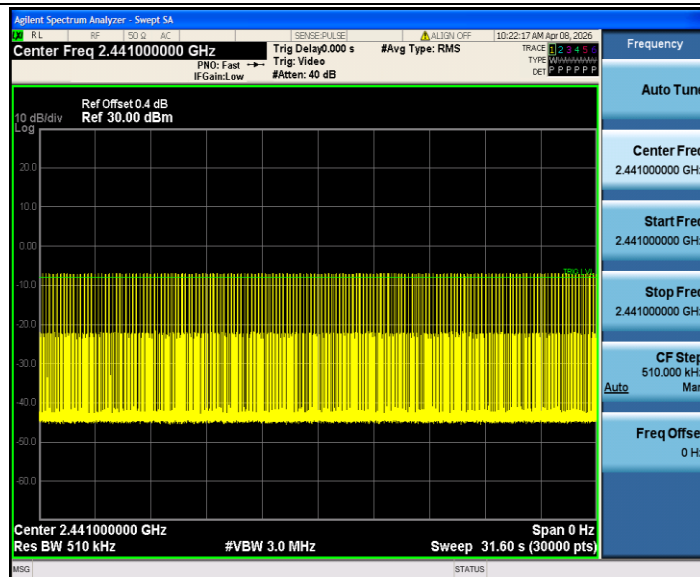
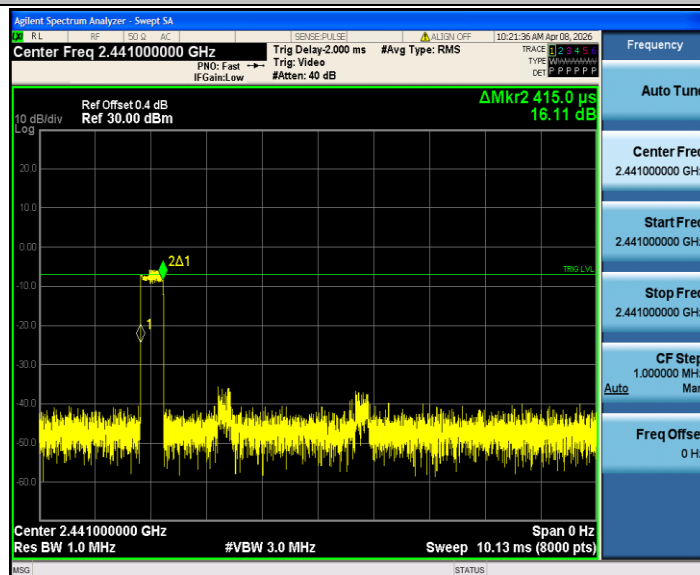


DH5_Ant1_Hop

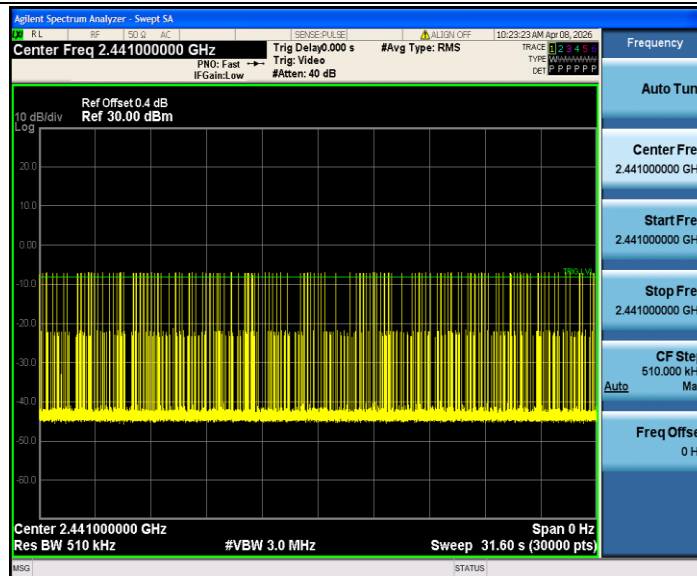
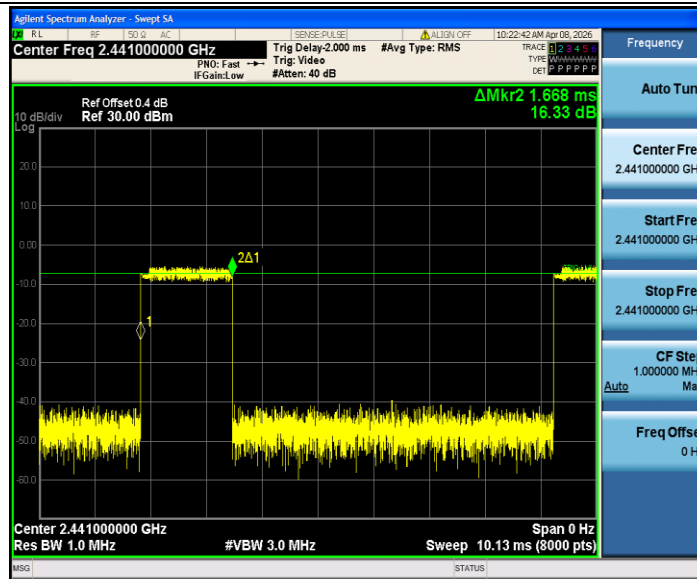




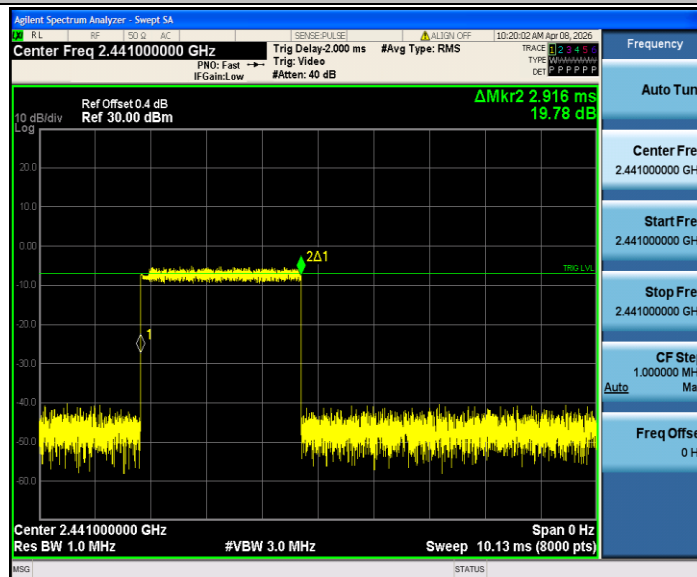
2DH1_Ant1_Hop

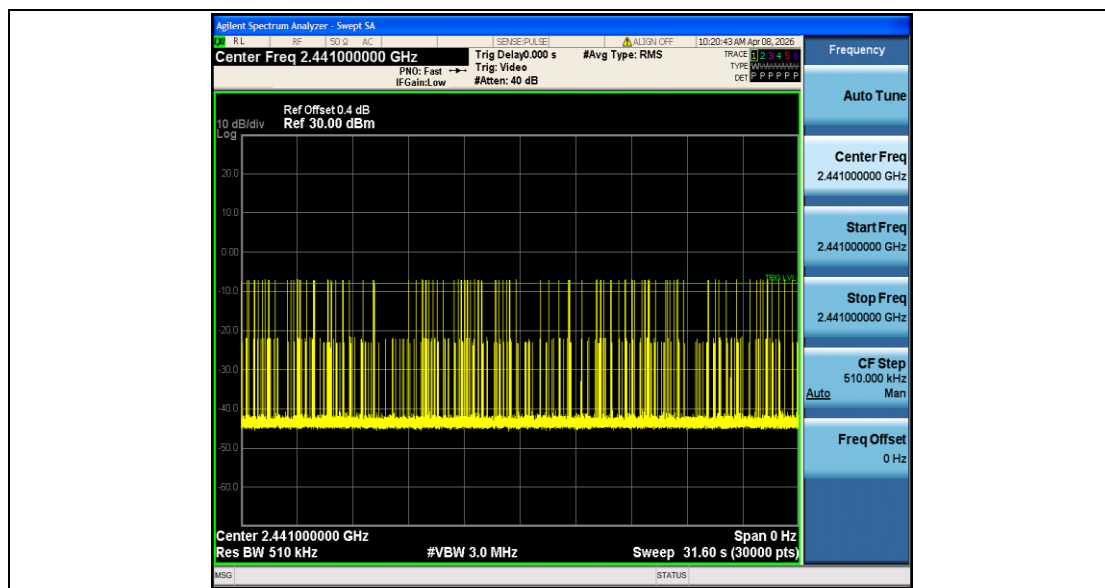


2DH3_Ant1_Hop



2DH5_Ant1_Hop



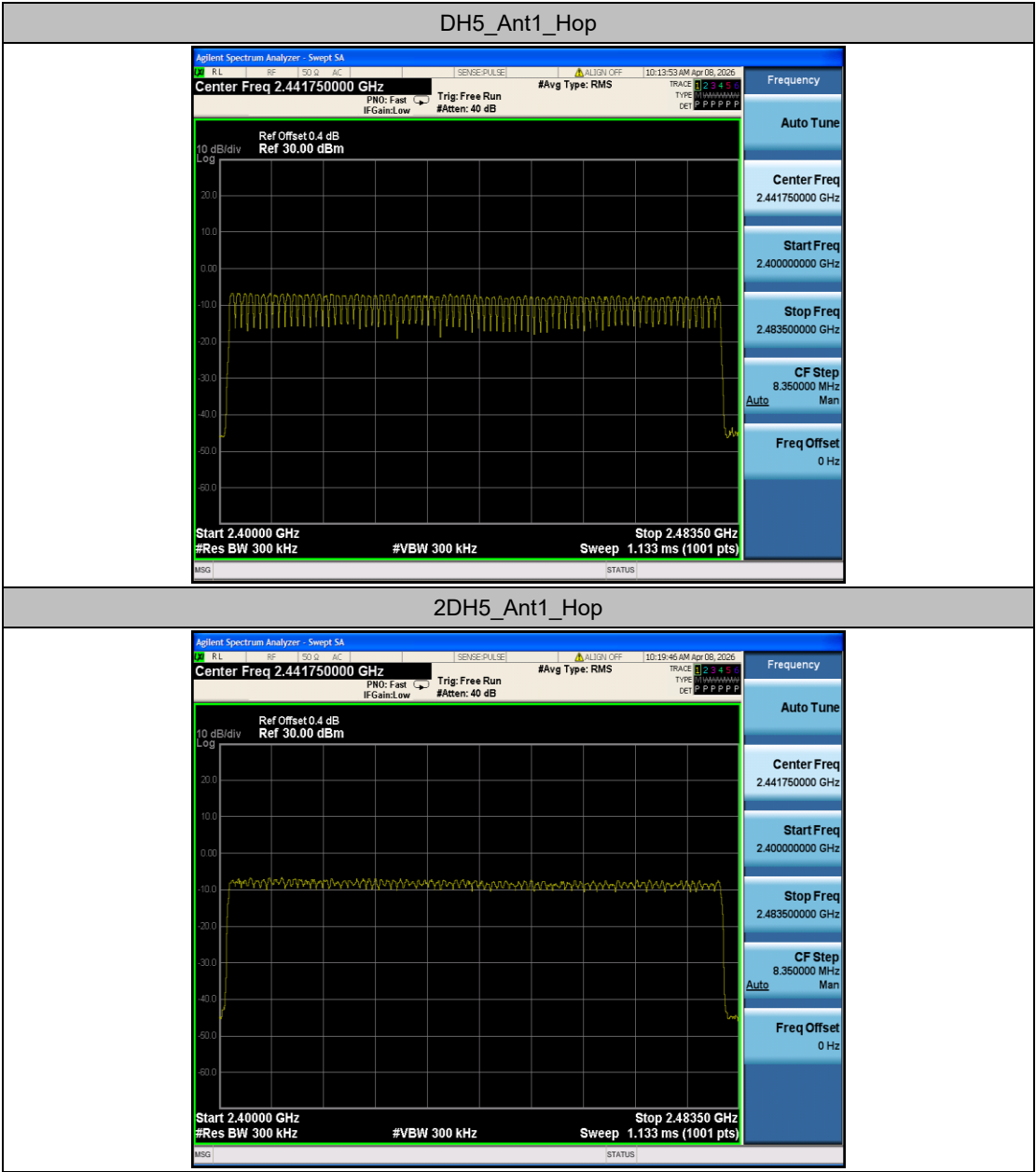


Appendix F: Number of hopping channels

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

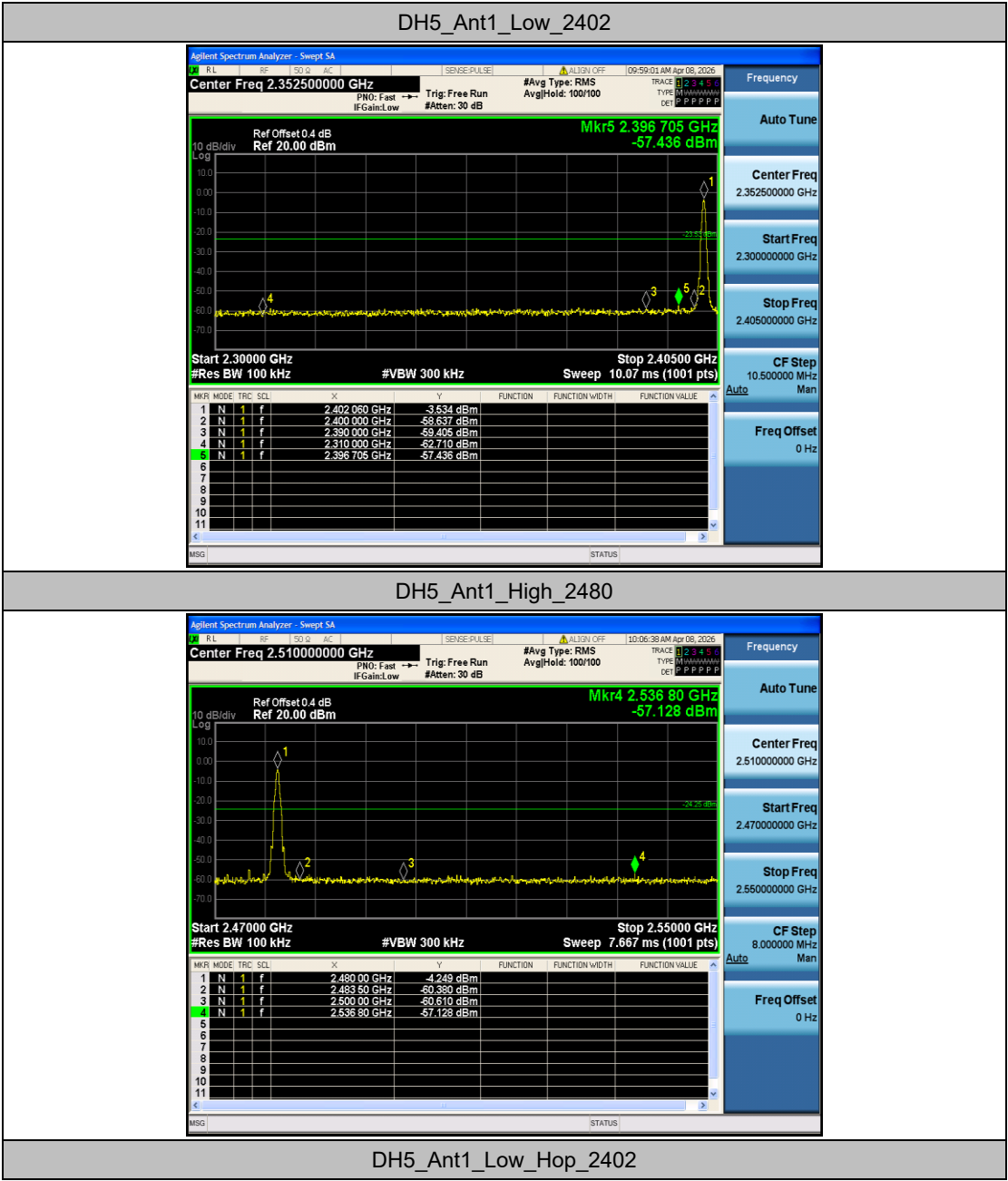


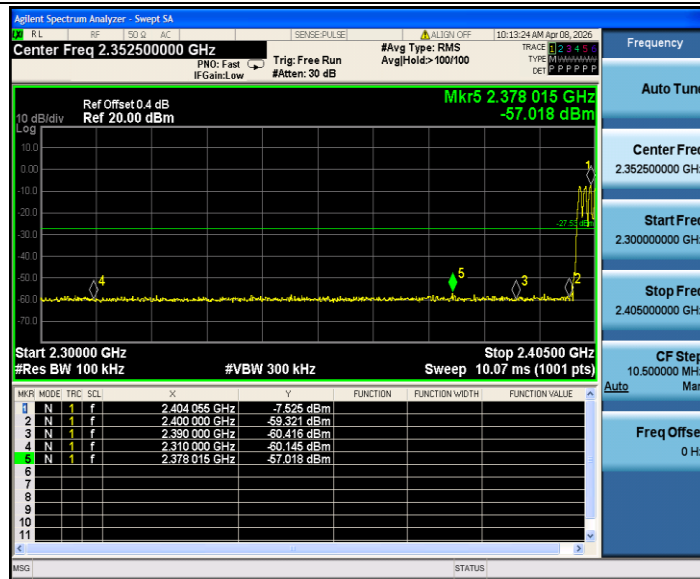
Appendix G: Band edge measurements

Test Result

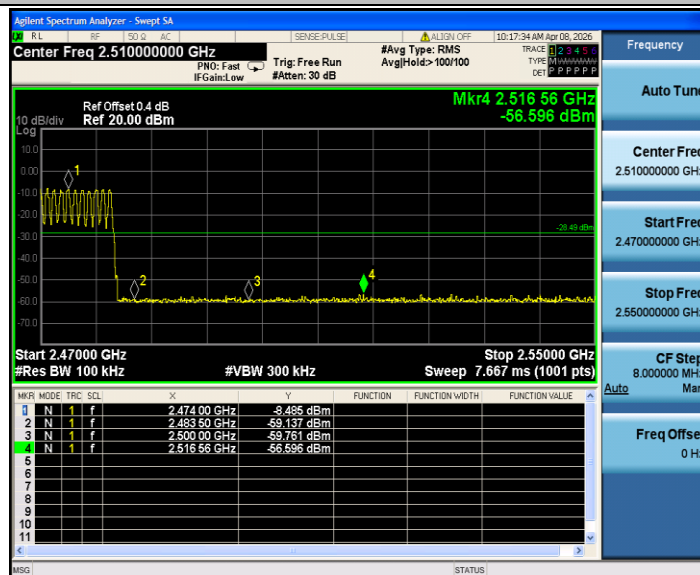
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.53	-57.44	≤-23.53	PASS
		High	2480	-4.25	-57.13	≤-24.25	PASS
		Low	Hop_2402	-7.53	-57.02	≤-27.53	PASS
		High	Hop_2480	-8.49	-56.6	≤-28.49	PASS
2DH5	Ant1	Low	2402	-7.92	-57.18	≤-27.92	PASS
		High	2480	-7.58	-55.28	≤-27.58	PASS
		Low	Hop_2402	-8.50	-58.13	≤-28.5	PASS
		High	Hop_2480	-11.31	-57.72	≤-31.31	PASS

Test Graphs

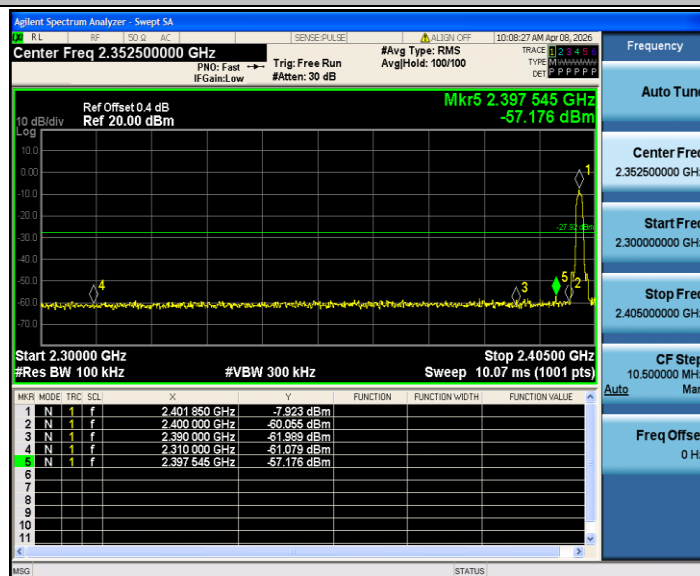




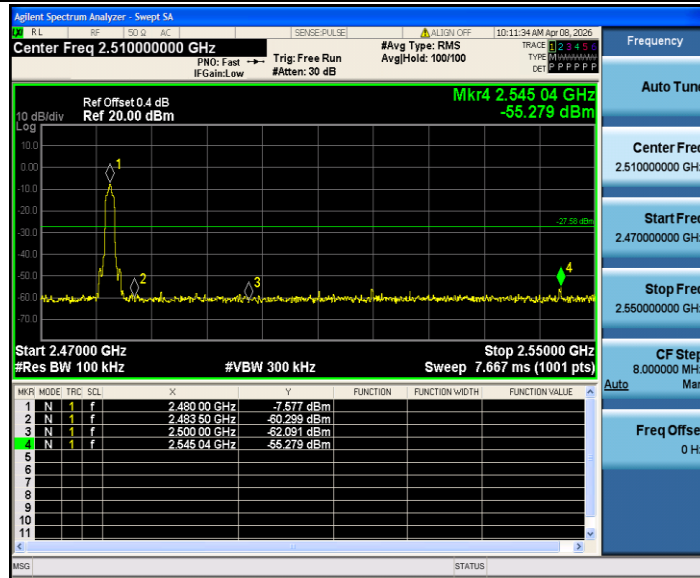
DH5_Ant1_High_Hop_2480



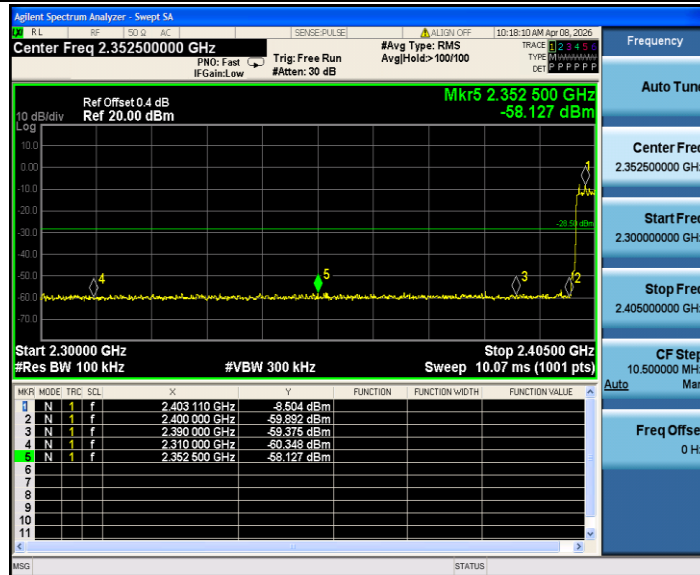
2DH5_Ant1_Low_2402



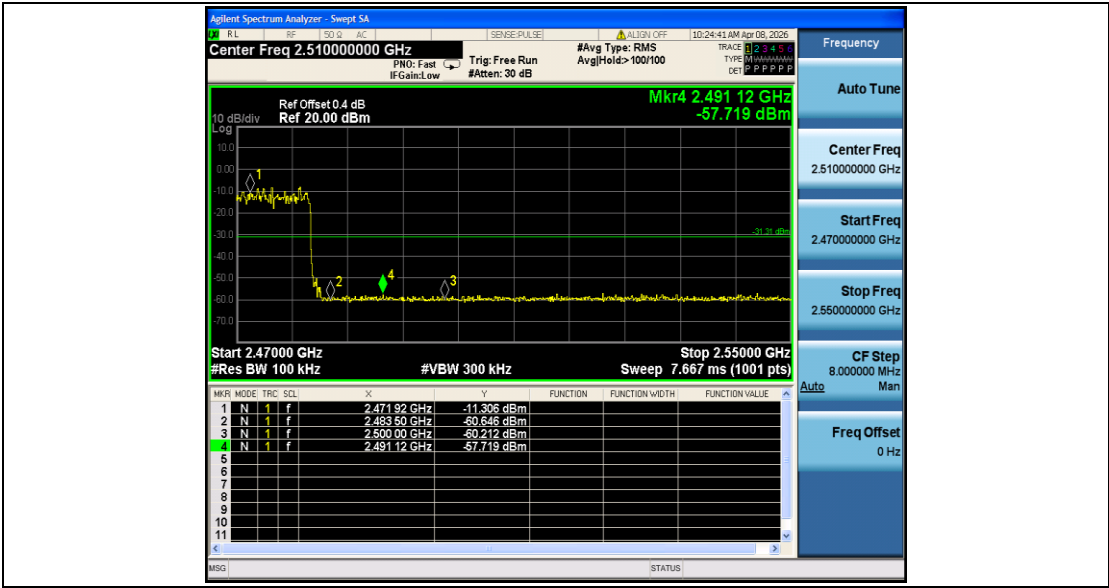
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

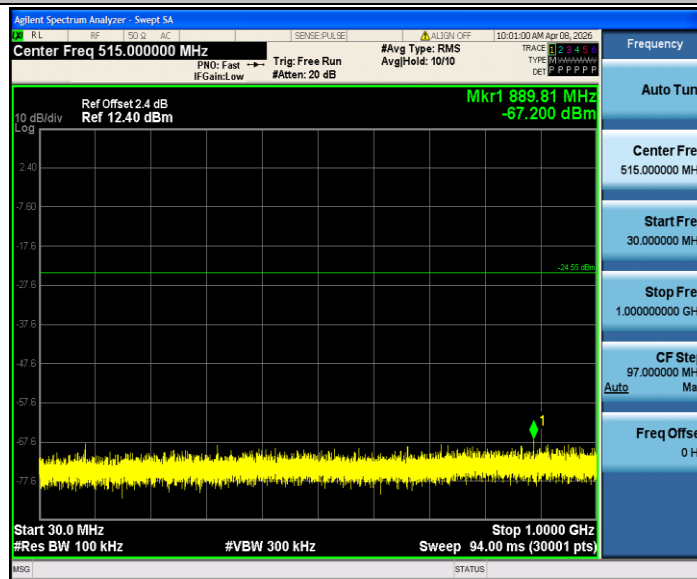
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.55	-4.55	---	PASS
			30~1000	-4.55	-67.2	≤-24.55	PASS
			1000~26500	-4.55	-49.22	≤-24.55	PASS
		2441	Reference	-5.44	-5.44	---	PASS
			30~1000	-5.44	-67.91	≤-25.44	PASS
			1000~26500	-5.44	-51.09	≤-25.44	PASS
		2480	Reference	-5.41	-5.41	---	PASS
			30~1000	-5.41	-67.43	≤-25.41	PASS
			1000~26500	-5.41	-50.84	≤-25.41	PASS
2DH5	Ant1	2402	Reference	-10.46	-10.46	---	PASS
			30~1000	-10.46	-67.7	≤-30.46	PASS
			1000~26500	-10.46	-54.51	≤-30.46	PASS
		2441	Reference	-10.21	-10.21	---	PASS
			30~1000	-10.21	-68.21	≤-30.21	PASS
			1000~26500	-10.21	-51.72	≤-30.21	PASS
		2480	Reference	-7.59	-7.59	---	PASS
			30~1000	-7.59	-68.27	≤-27.59	PASS
			1000~26500	-7.59	-55.42	≤-27.59	PASS

Test Graphs

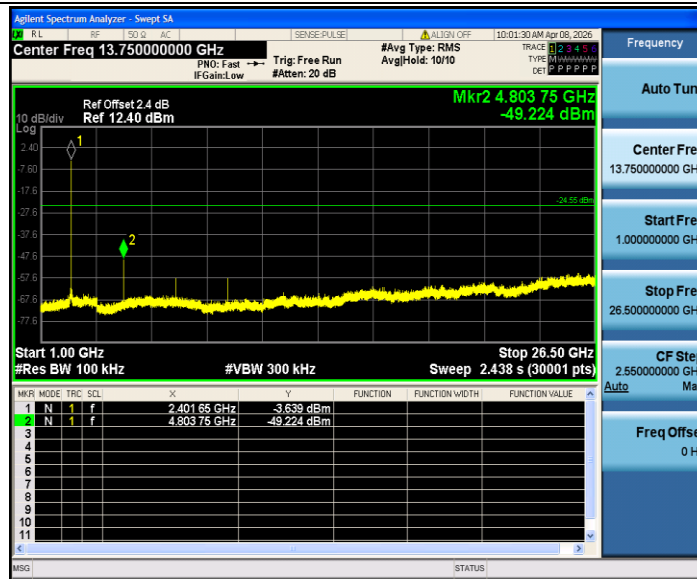
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



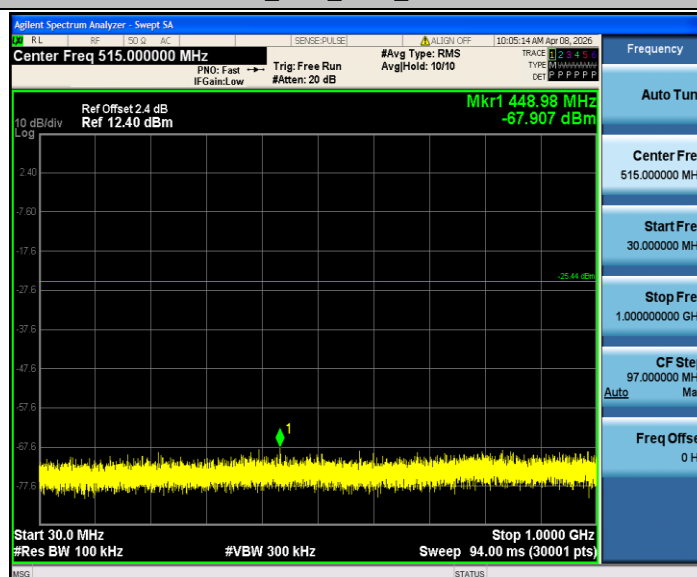
DH5_Ant1_2402_1000~26500



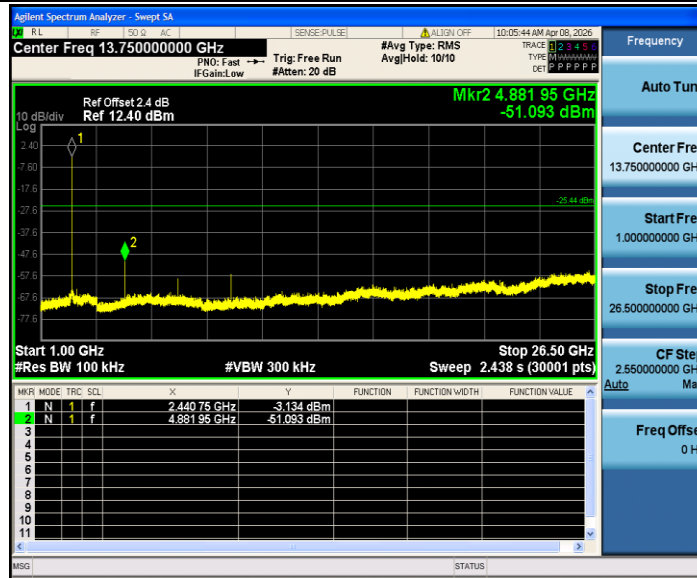
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



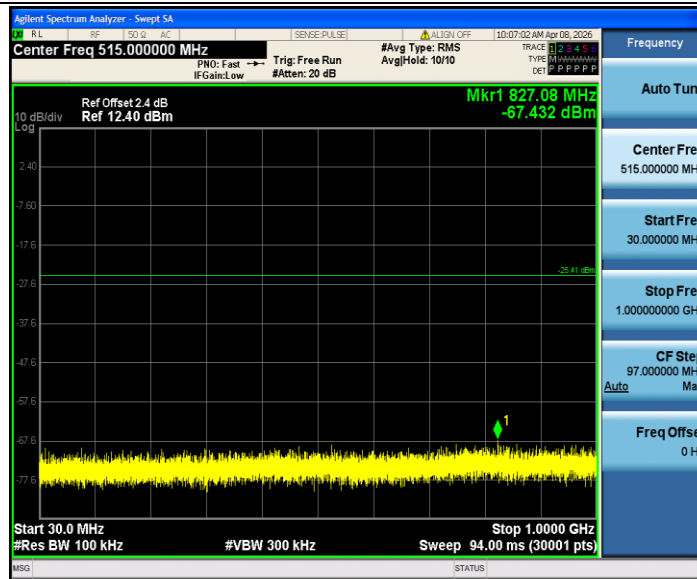
DH5_Ant1_2441_1000~26500



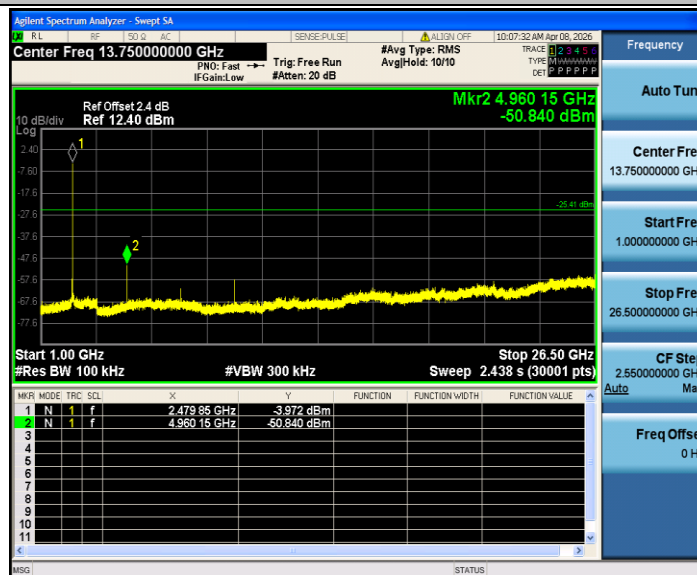
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



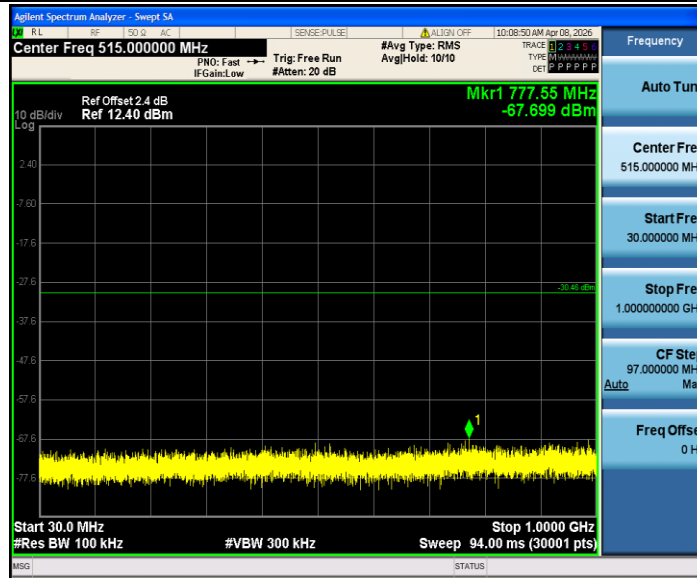
DH5_Ant1_2480_1000~26500



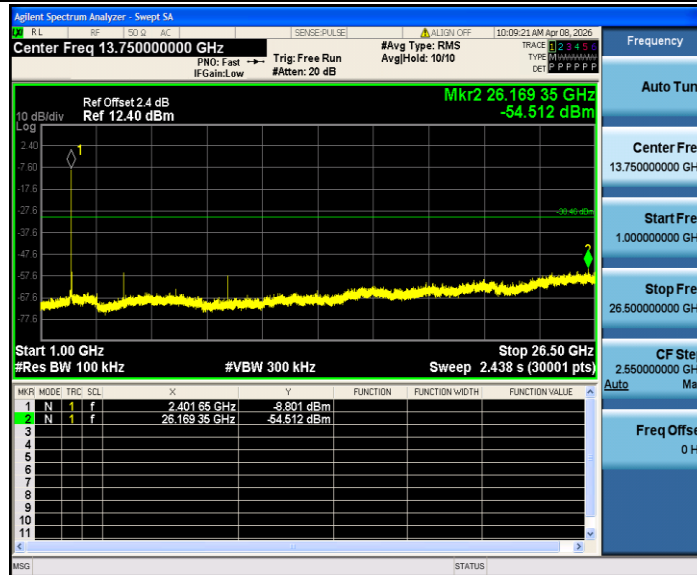
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



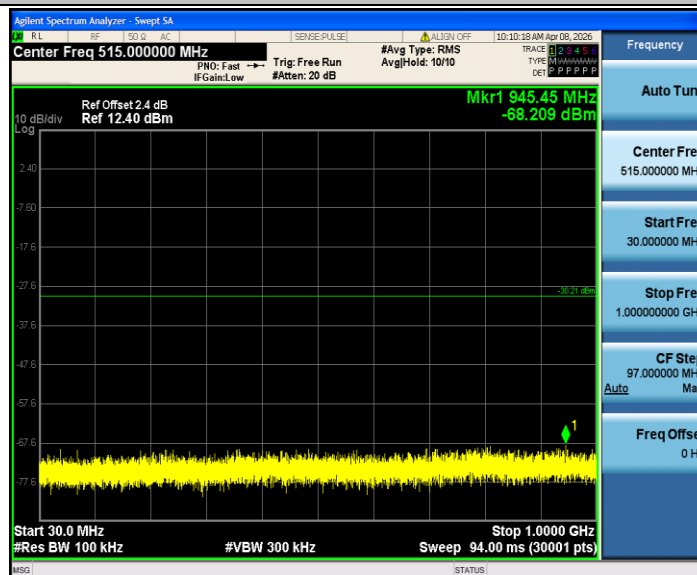
2DH5_Ant1_2402_1000~26500



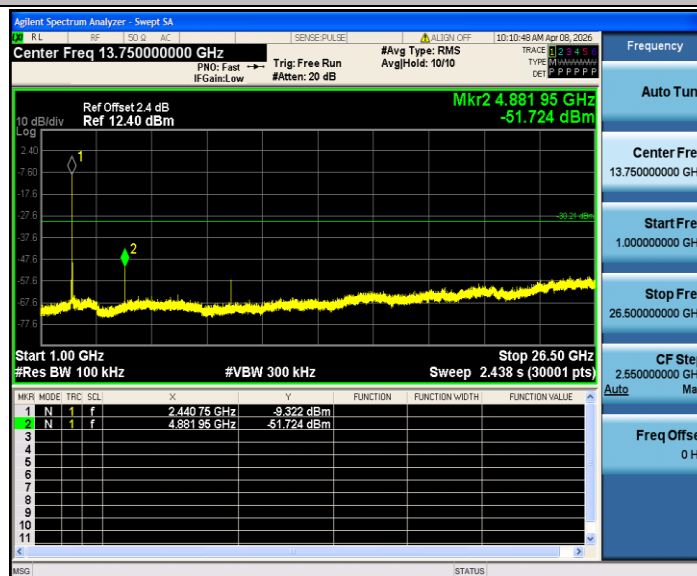
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



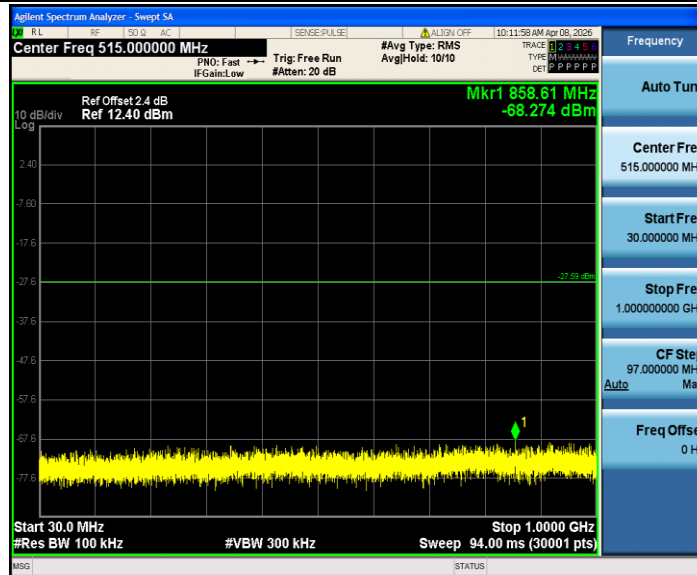
2DH5_Ant1_2441_1000~26500



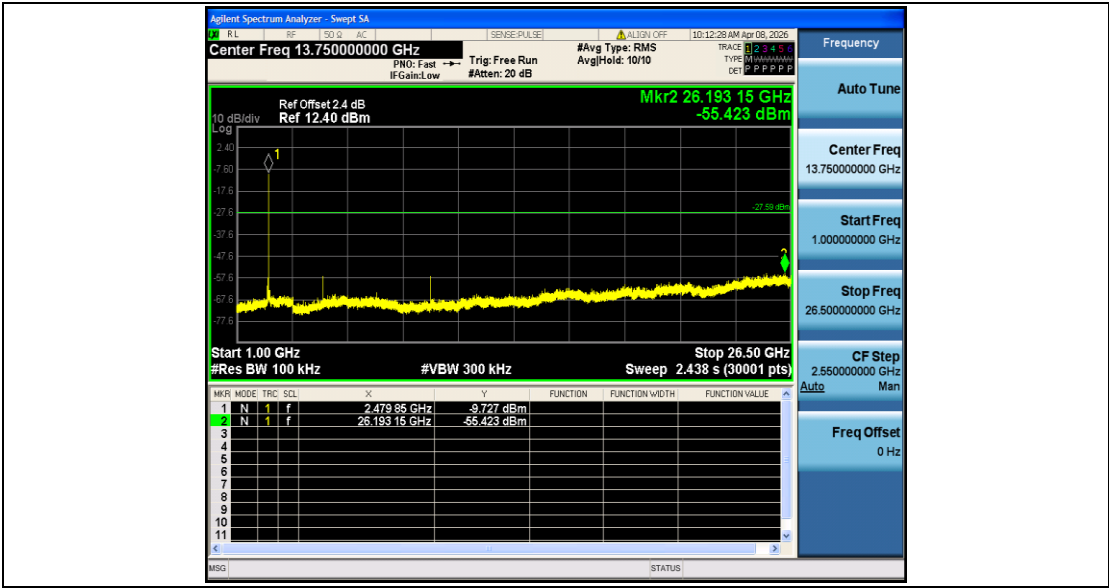
2DH5_Ant1_2480_0~Reference



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	---	---