

FCC Appendix RF Test Data for BT

FCC ID : 2BF3S-FS-R208

Company : Dongguan Faraoou Electric Appliance Co., Ltd

EUT : Portable Wireless Speaker System

Model Number : FS-R208

Report No. : CTA26040101101

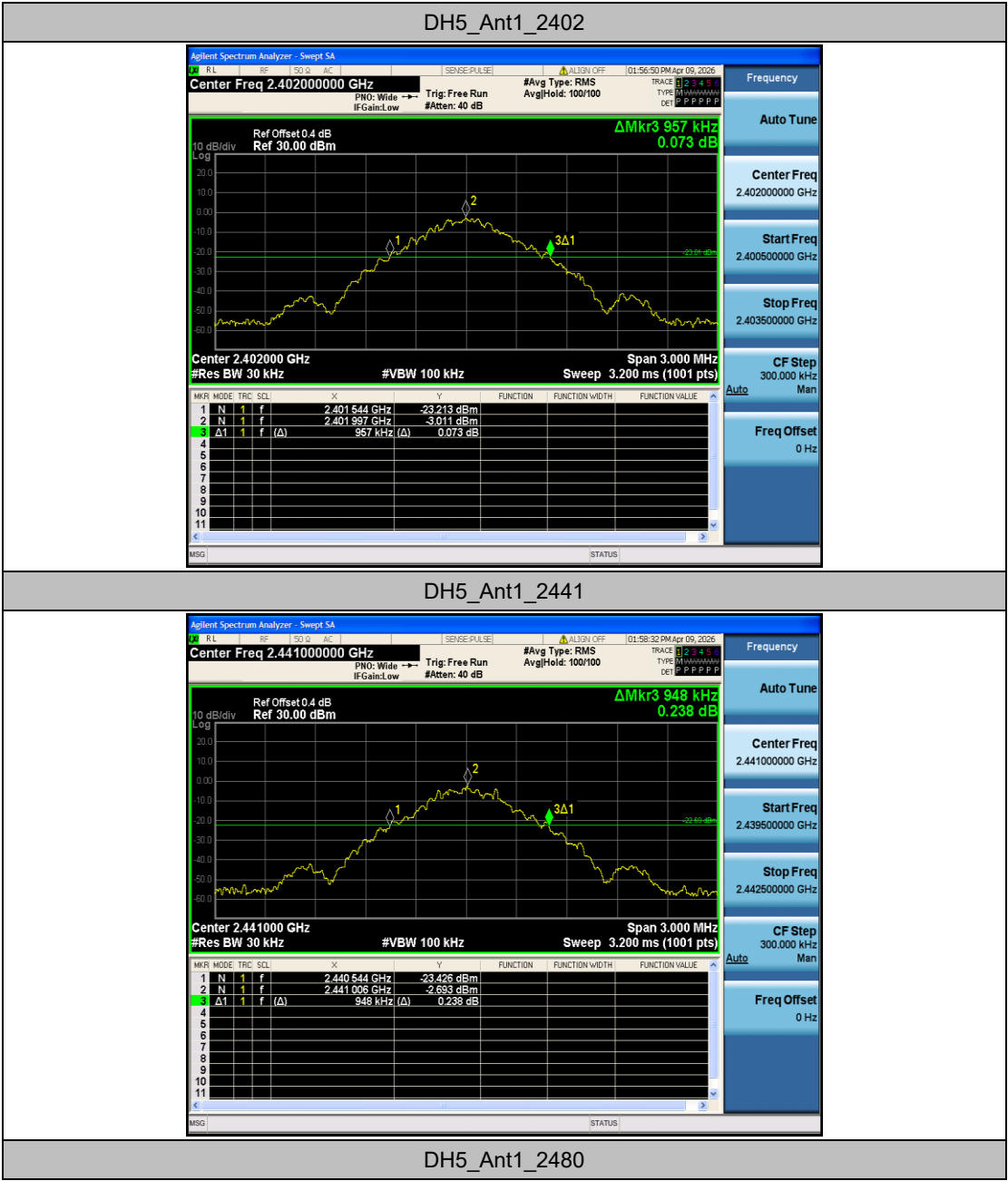
Reviewed By : Eric Wang

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	2401.544	2402.501	---	---
		2441	0.948	2440.544	2441.492	---	---
		2480	0.945	2479.550	2480.495	---	---
2DH5	Ant1	2402	1.323	2401.346	2402.669	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.287	2479.376	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

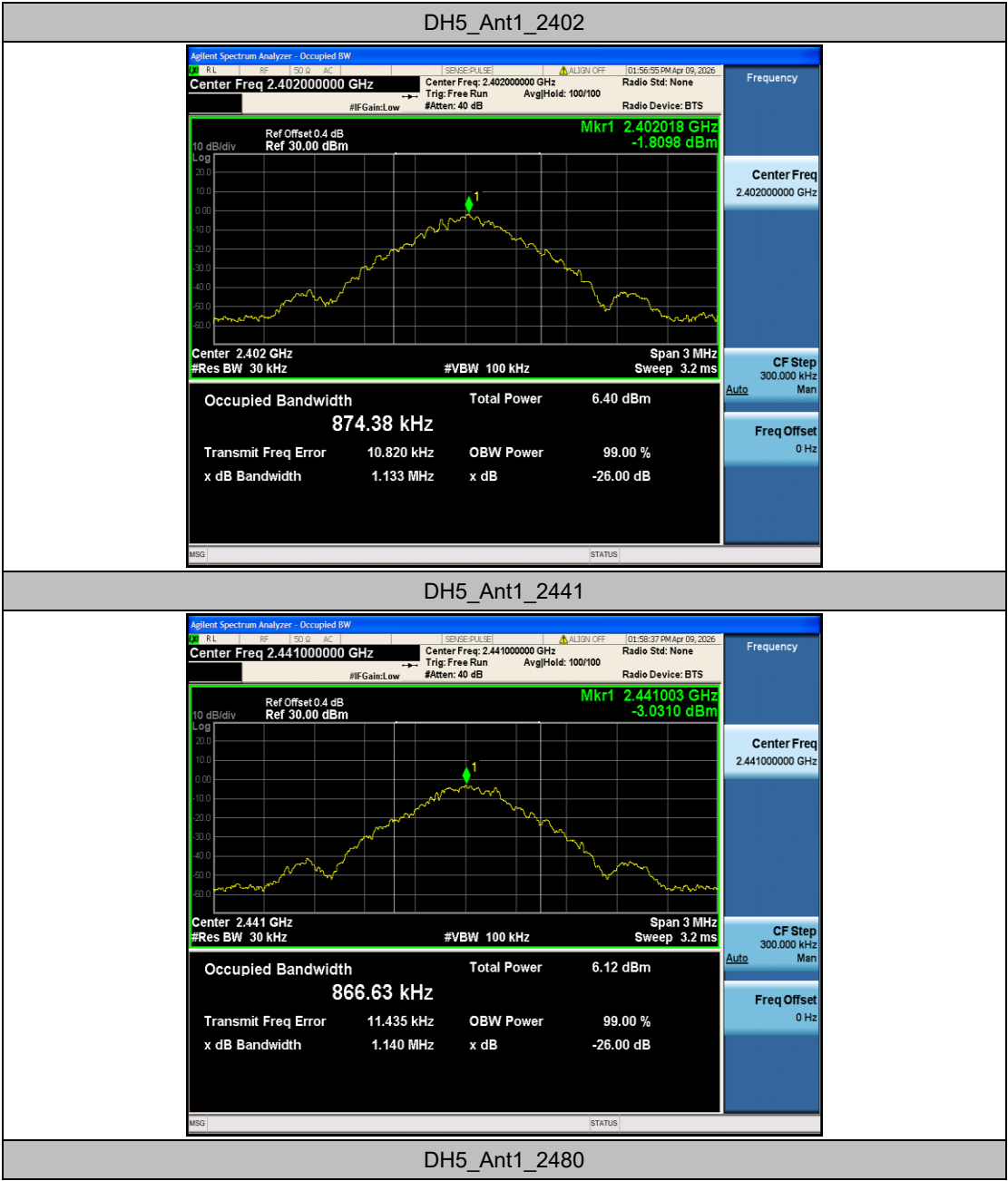


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87438	2401.5736	2402.4480	---	---
		2441	0.86663	2440.5781	2441.4447	---	---
		2480	0.86859	2479.5787	2480.4473	---	---
2DH5	Ant1	2402	1.1814	2401.4177	2402.5991	---	---
		2441	1.1798	2440.4219	2441.6017	---	---
		2480	1.1889	2479.4155	2480.6044	---	---

Test Graphs



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	0.19	≤20.97	PASS
		2441	-0.40	≤20.97	PASS
		2480	-0.63	≤20.97	PASS
2DH5	Ant1	2402	-0.68	≤20.97	PASS
		2441	-1.24	≤20.97	PASS
		2480	-1.50	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.984	≥ 0.957	PASS
2DH5	Ant1	Hop	1.316	≥ 0.882	PASS

Test Graphs

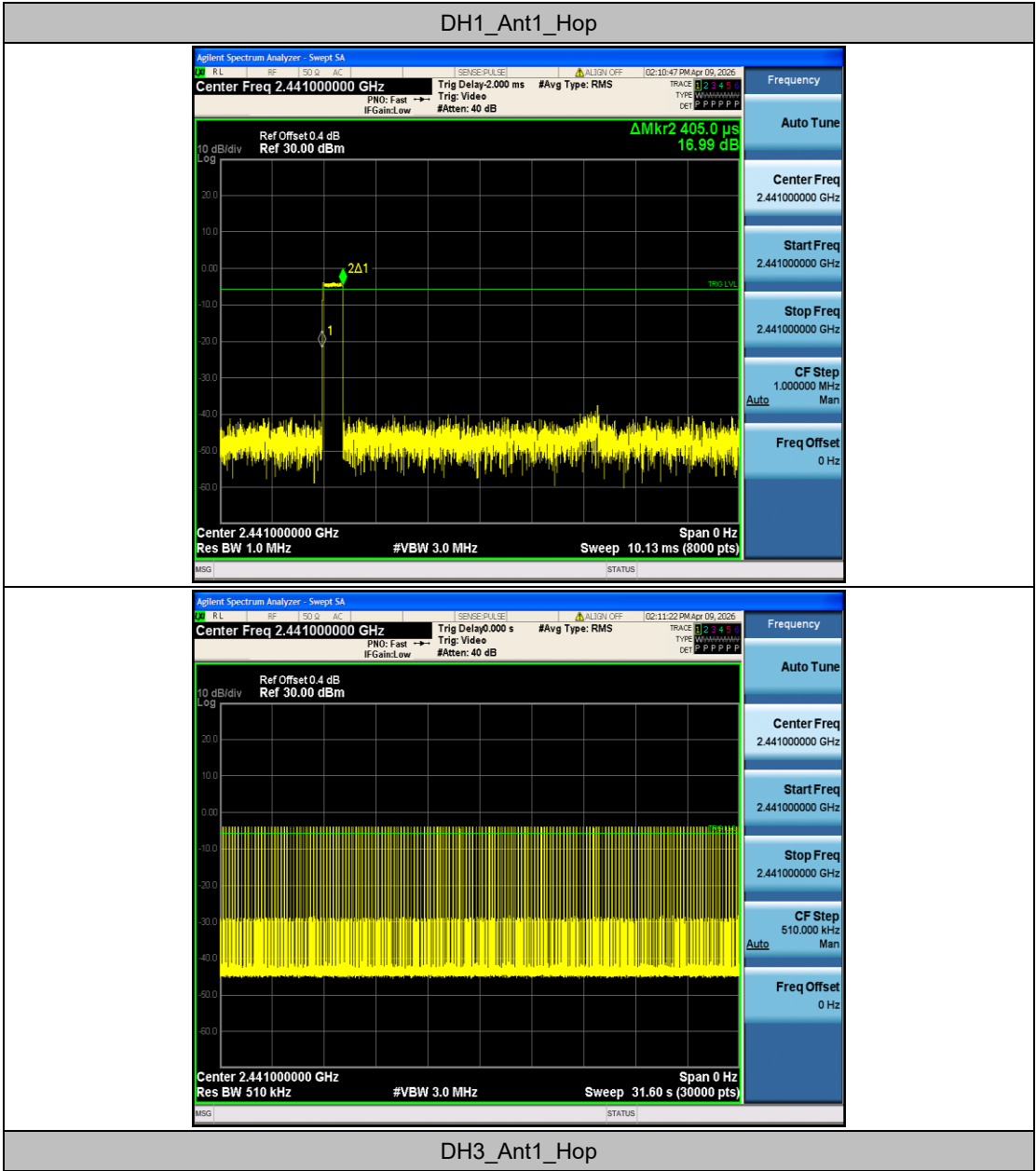


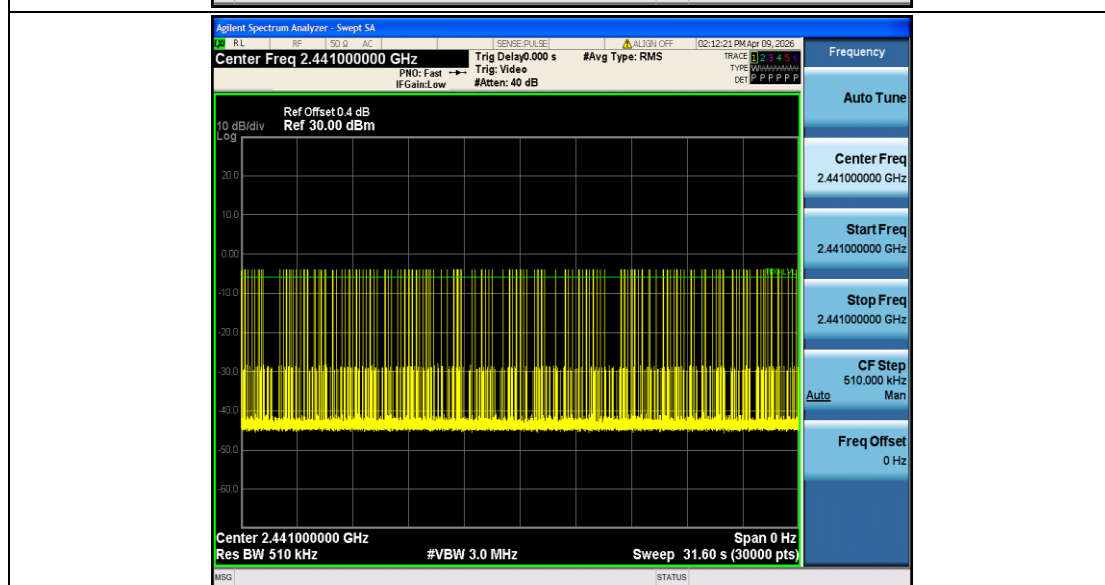
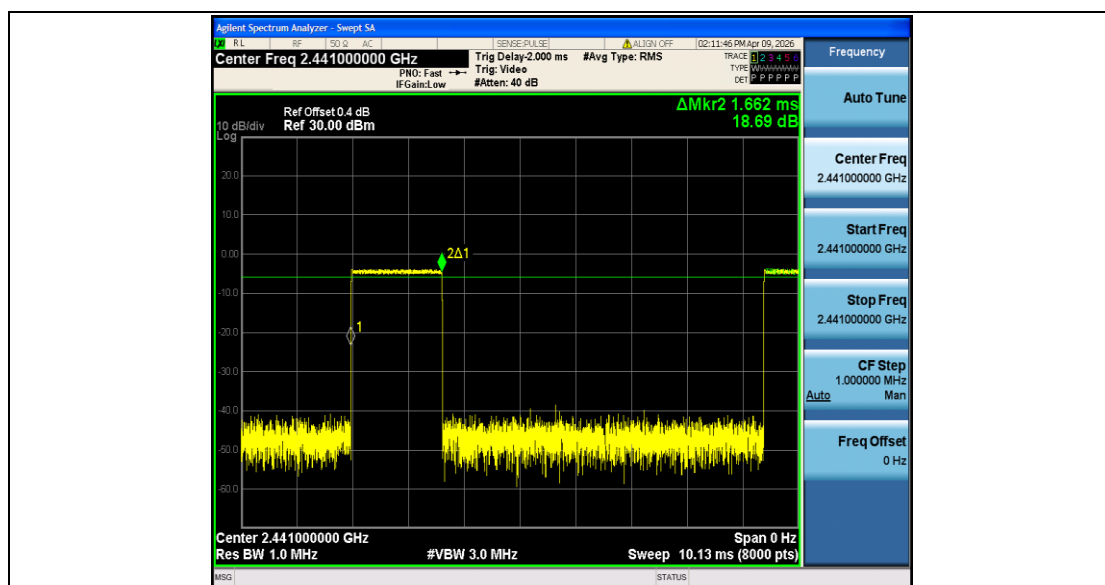
Appendix E: Time of occupancy

Test Result

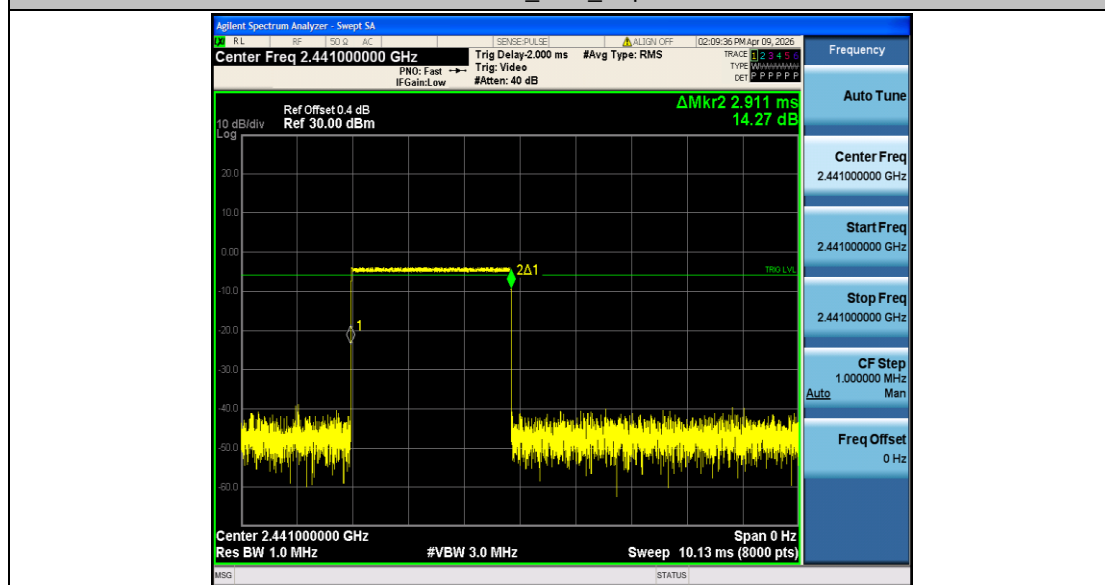
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	319	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	171	0.284	≤0.4	PASS
DH5	Ant1	Hop	2.911	99	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	153	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.916	103	0.3	≤0.4	PASS

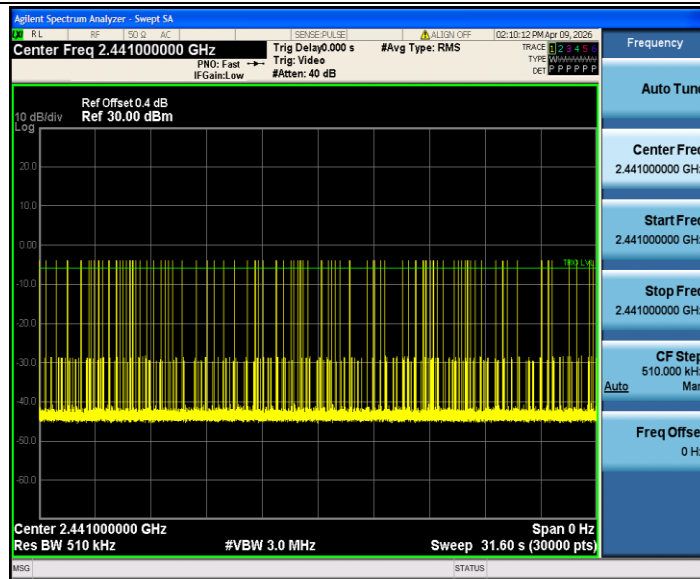
Test Graphs



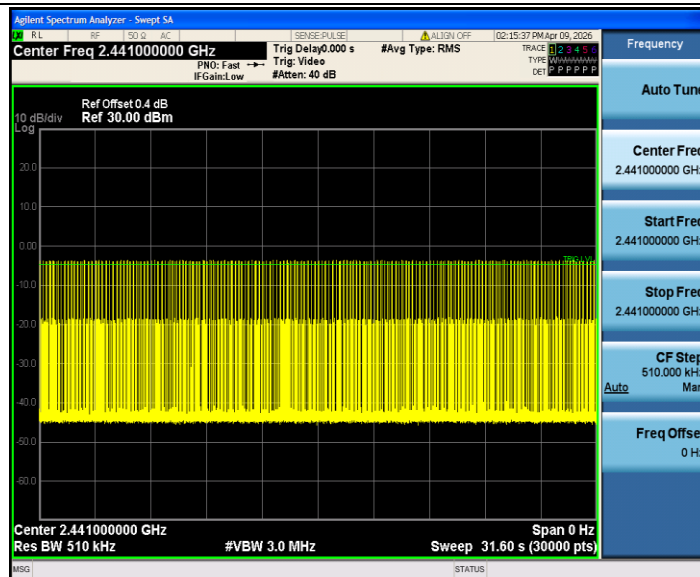
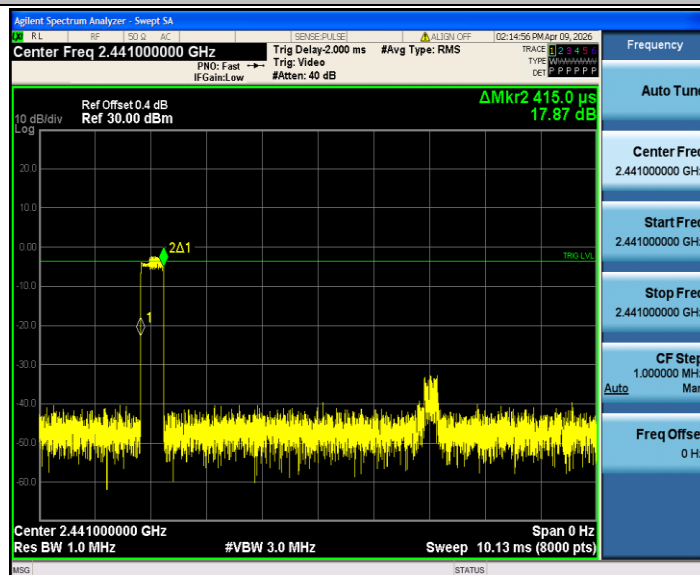


DH5_Ant1_Hop

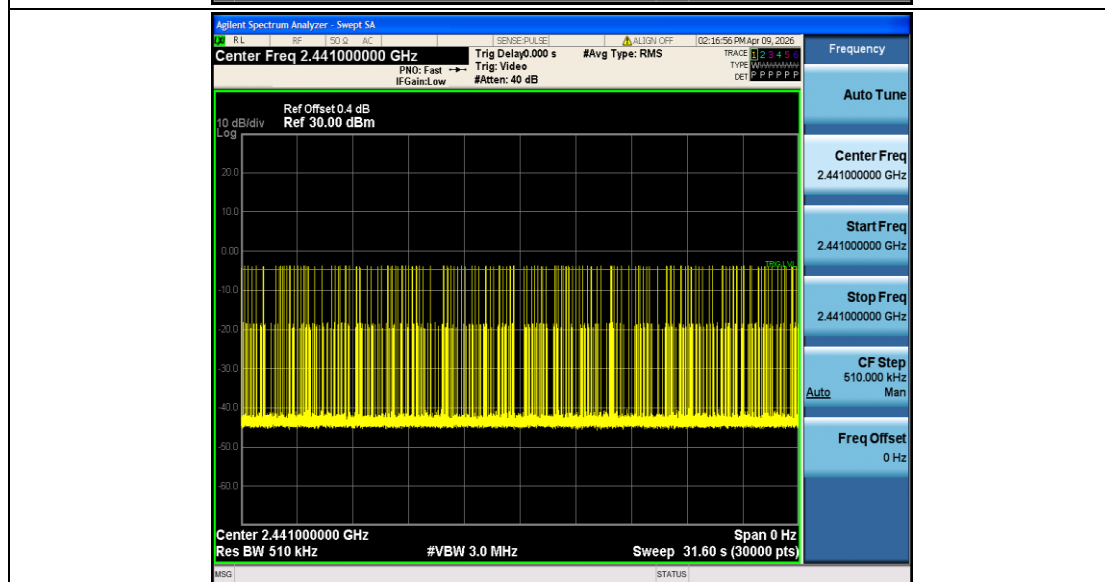
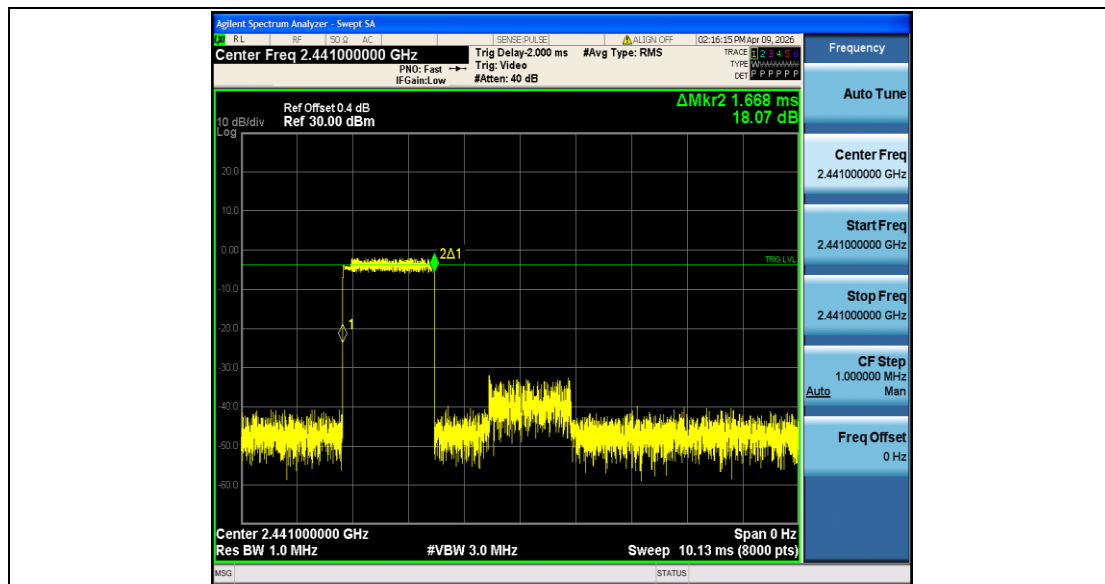




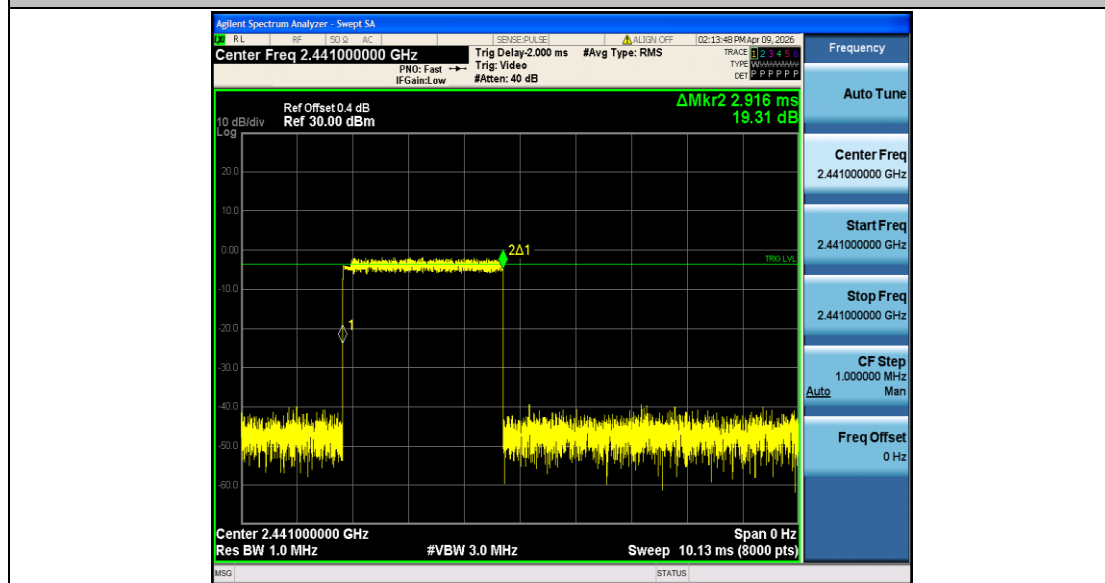
2DH1_Ant1_Hop

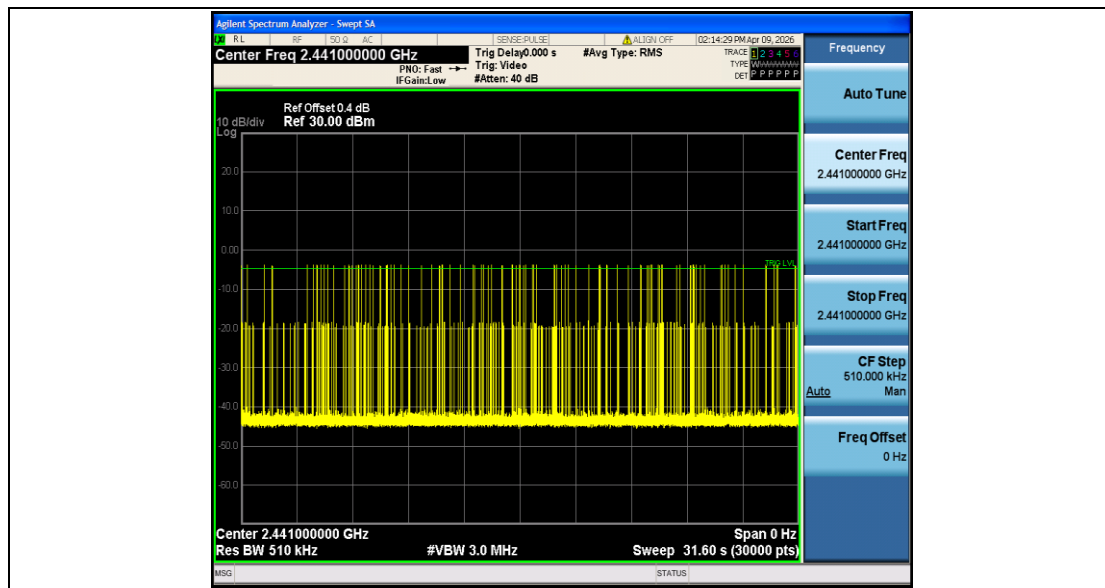


2DH3_Ant1_Hop



2DH5_Ant1_Hop



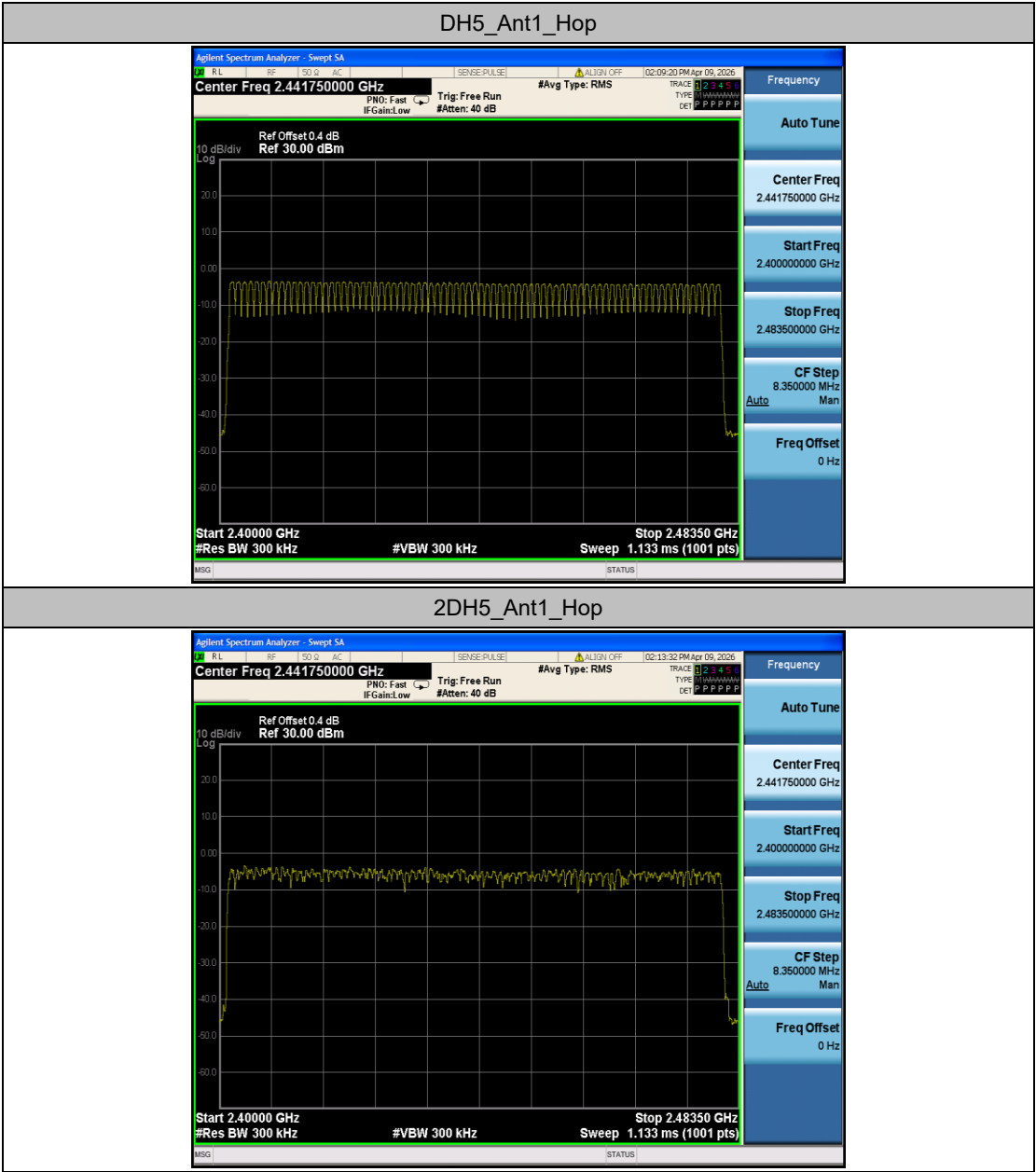


Appendix F: Number of hopping channels

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

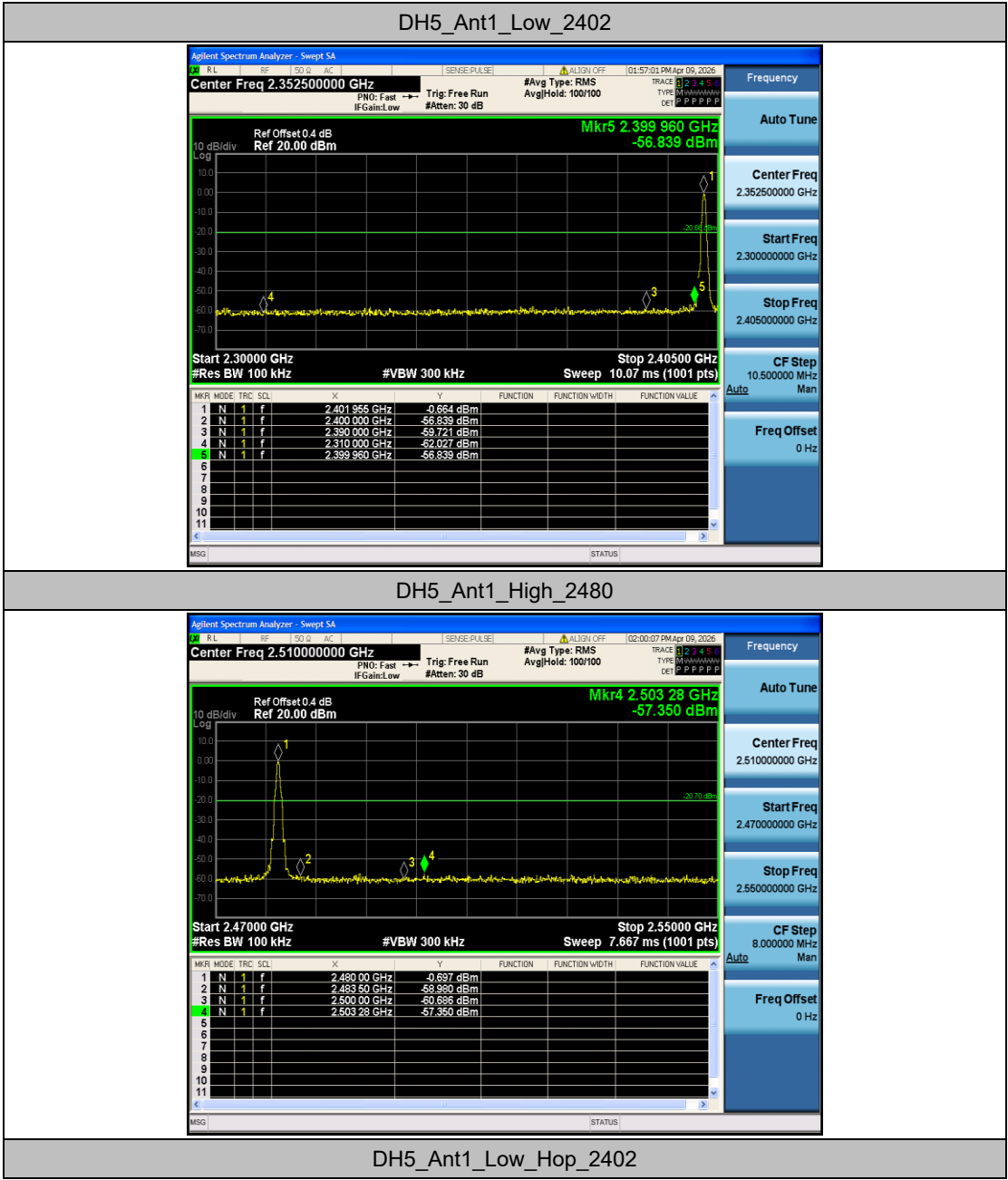


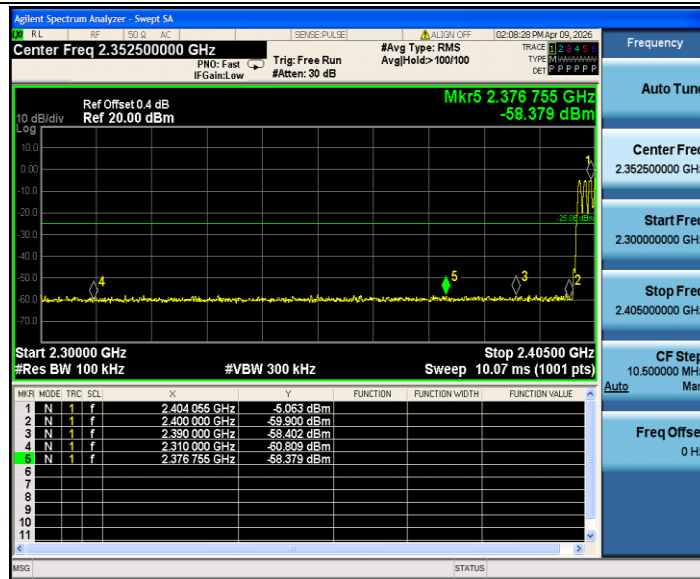
Appendix G: Band edge measurements

Test Result

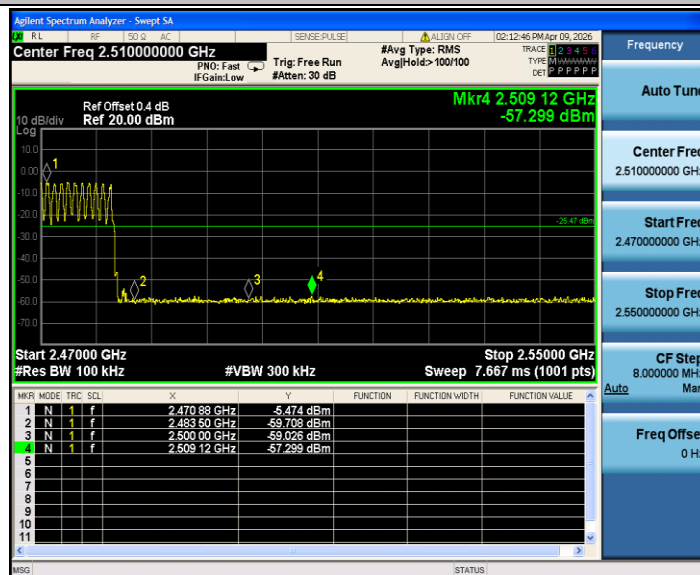
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.66	-56.84	≤-20.66	PASS
		High	2480	-0.70	-57.35	≤-20.7	PASS
		Low	Hop_2402	-5.06	-58.38	≤-25.06	PASS
		High	Hop_2480	-5.47	-57.3	≤-25.47	PASS
2DH5	Ant1	Low	2402	-3.57	-57.73	≤-23.57	PASS
		High	2480	-4.36	-57.92	≤-24.36	PASS
		Low	Hop_2402	-6.04	-57.22	≤-26.04	PASS
		High	Hop_2480	-5.53	-57.89	≤-25.53	PASS

Test Graphs

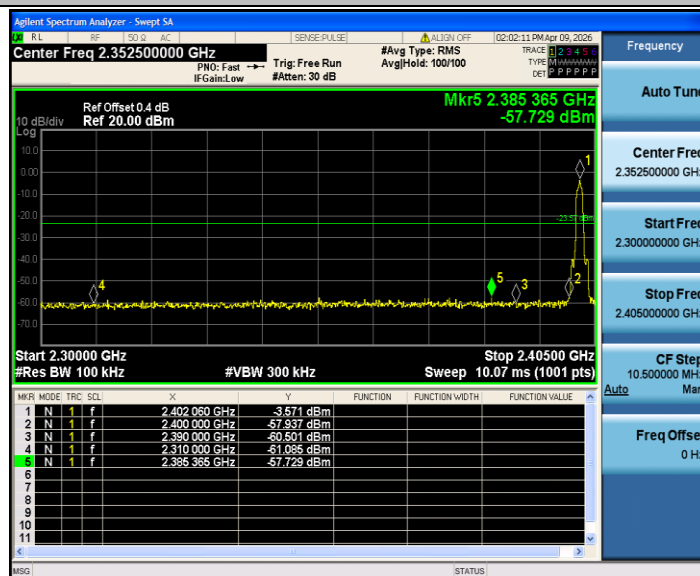




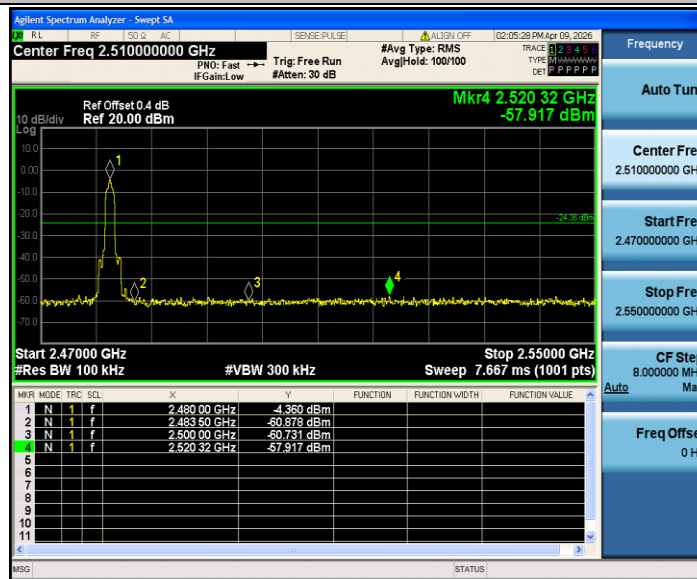
DH5_Ant1_High_Hop_2480



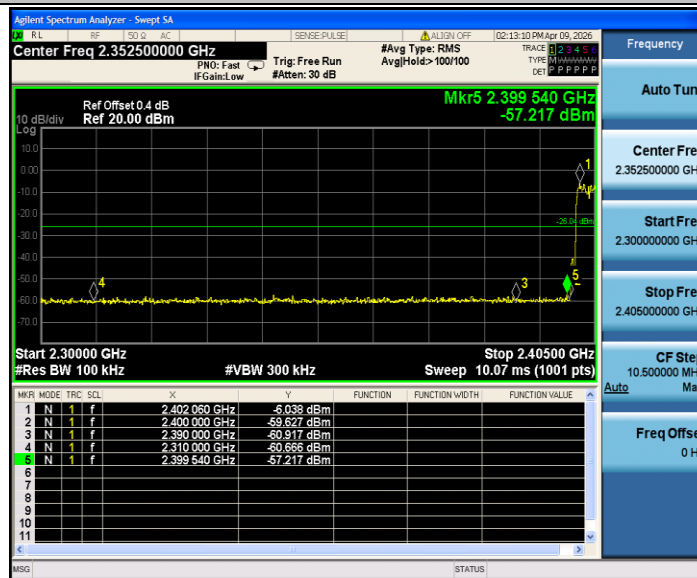
2DH5_Ant1_Low_2402



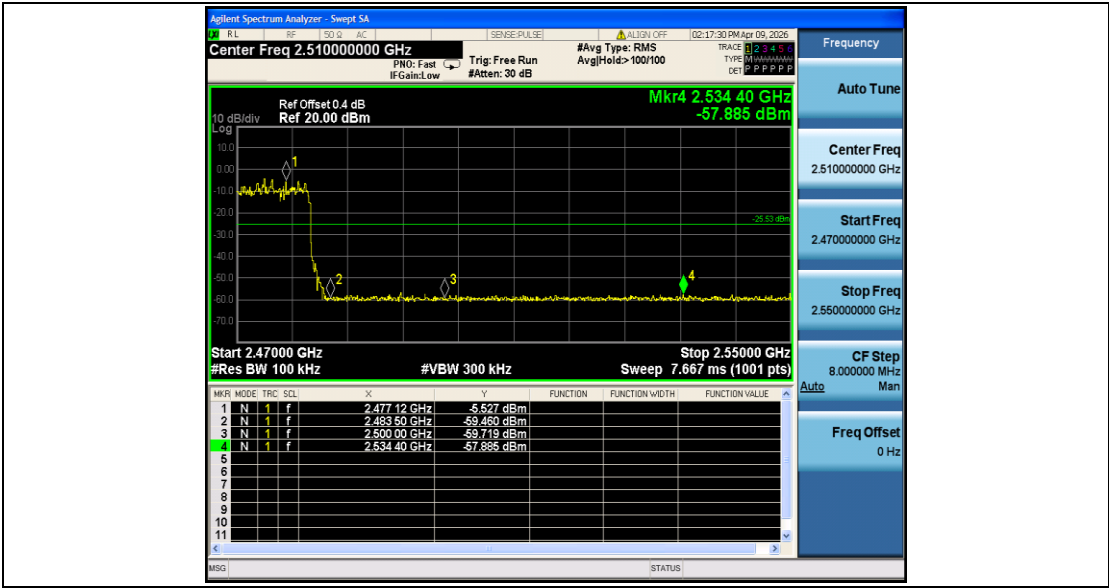
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

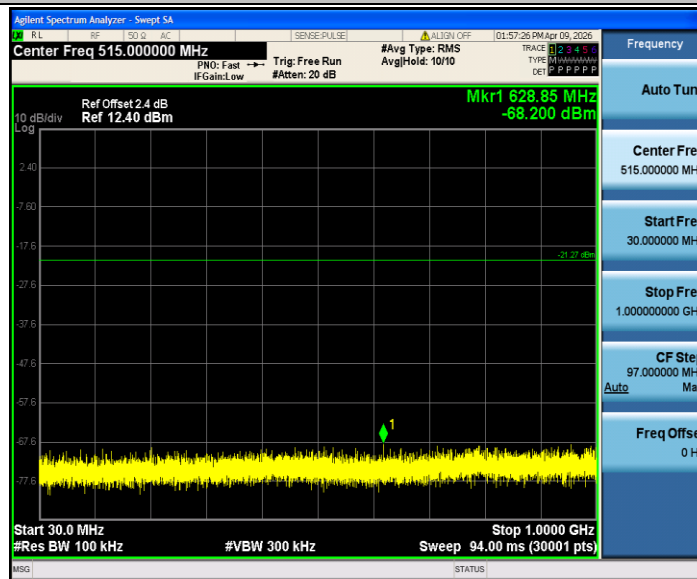
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-68.2	≤-21.27	PASS
			1000~26500	-1.27	-45.01	≤-21.27	PASS
		2441	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-67.56	≤-21.29	PASS
			1000~26500	-1.29	-45.37	≤-21.29	PASS
		2480	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-68.17	≤-21.67	PASS
			1000~26500	-1.67	-44.05	≤-21.67	PASS
2DH5	Ant1	2402	Reference	-4.66	-4.66	---	PASS
			30~1000	-4.66	-67.75	≤-24.66	PASS
			1000~26500	-4.66	-49.38	≤-24.66	PASS
		2441	Reference	-4.76	-4.76	---	PASS
			30~1000	-4.76	-67.62	≤-24.76	PASS
			1000~26500	-4.76	-50.94	≤-24.76	PASS
		2480	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-66.94	≤-25.91	PASS
			1000~26500	-5.91	-50.12	≤-25.91	PASS

Test Graphs

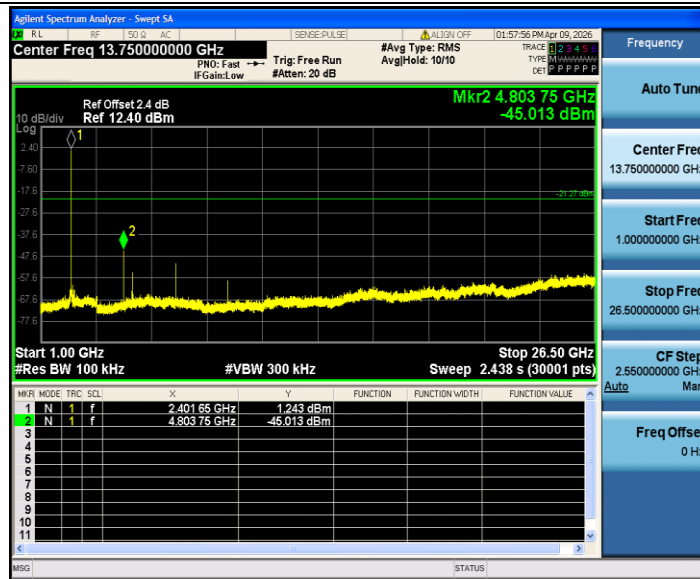
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



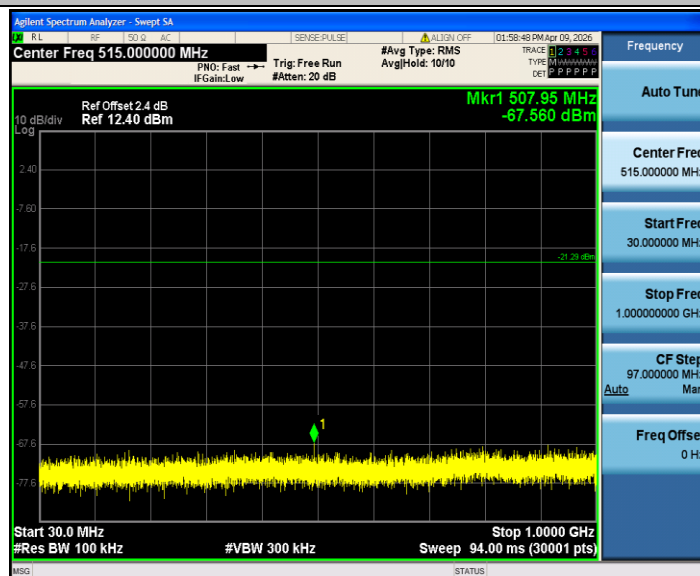
DH5_Ant1_2402_1000~26500



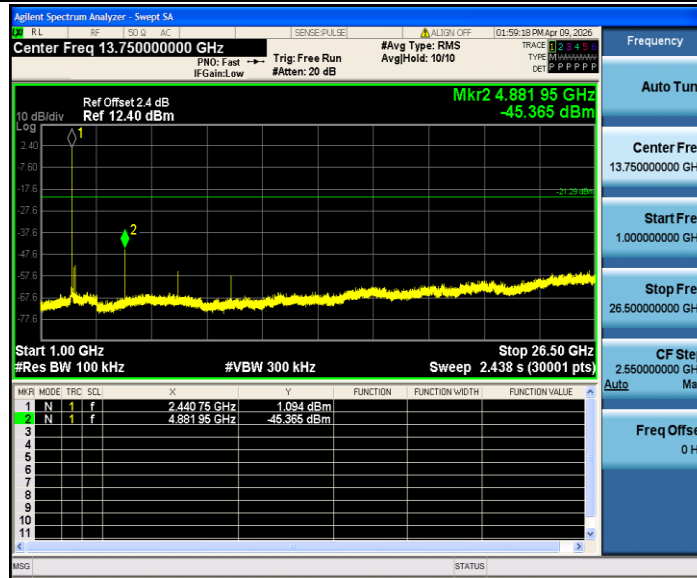
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



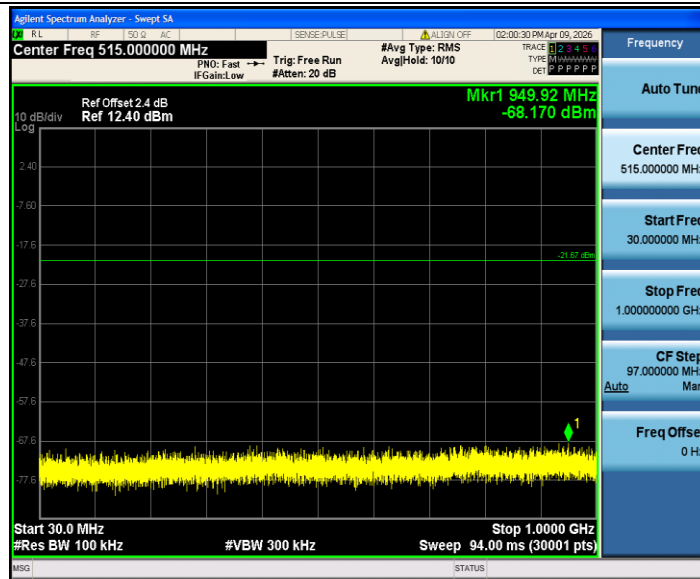
DH5_Ant1_2441_1000~26500



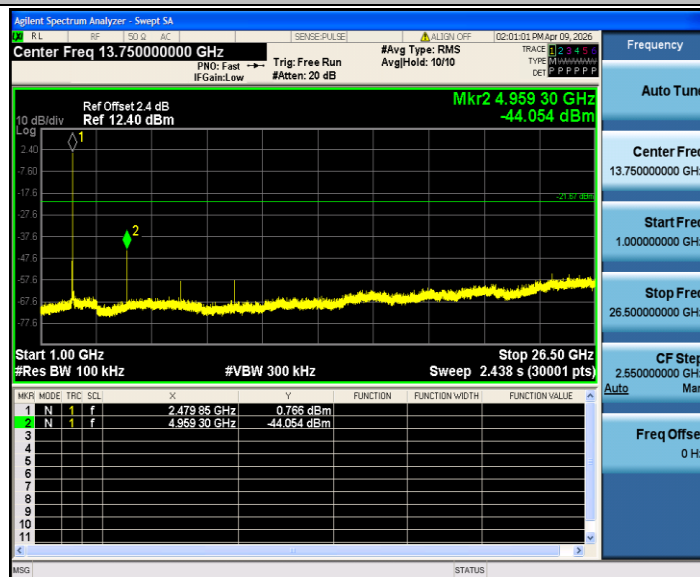
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



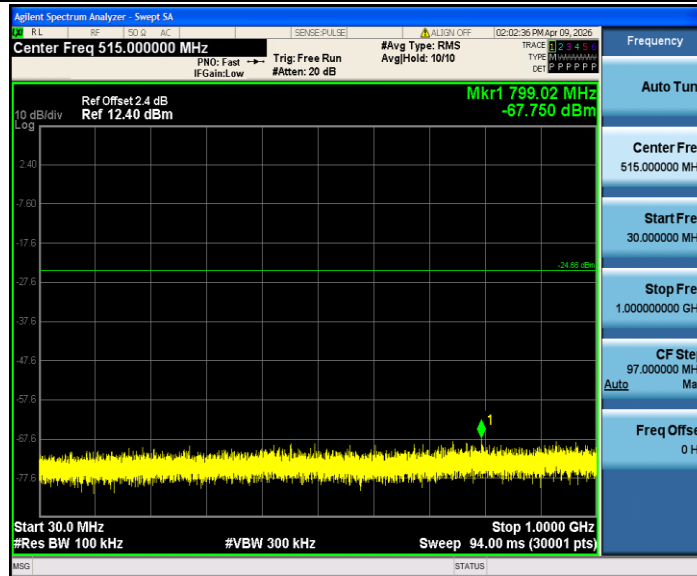
DH5_Ant1_2480_1000~26500



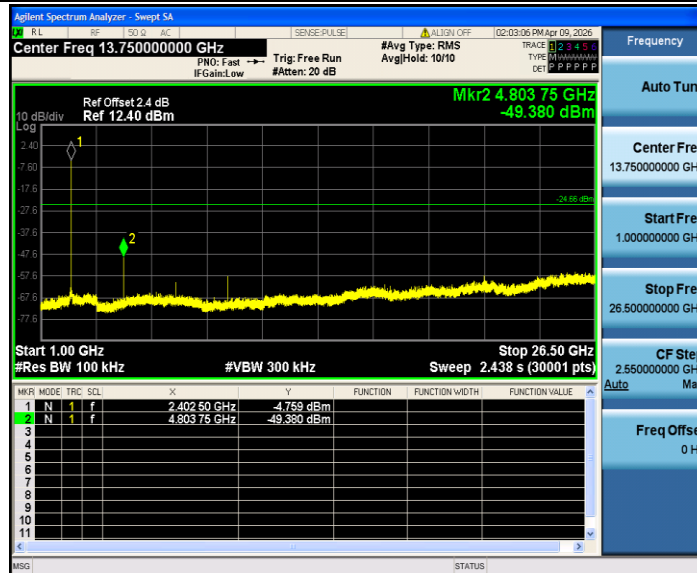
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



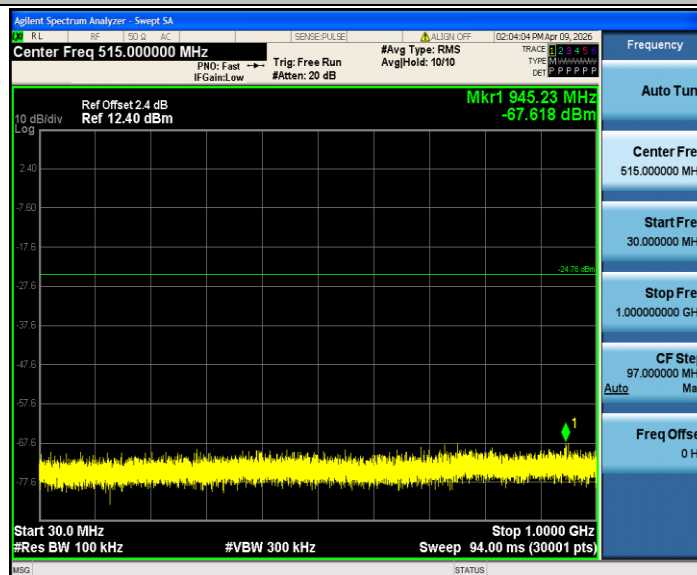
2DH5_Ant1_2402_1000~26500



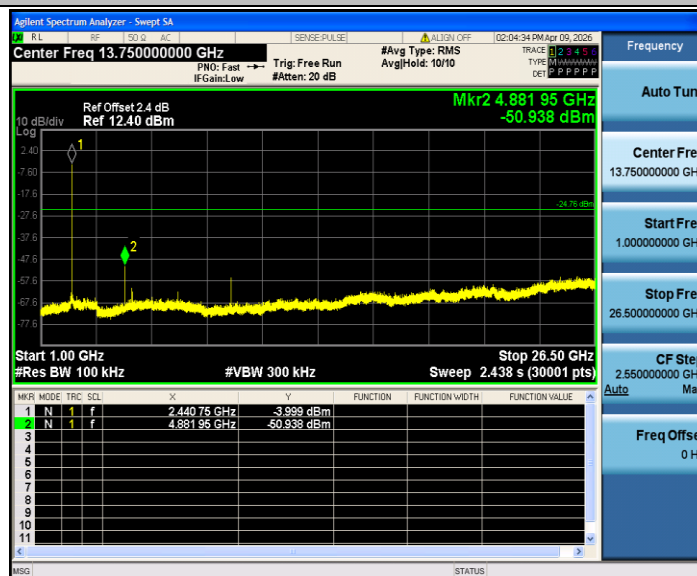
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



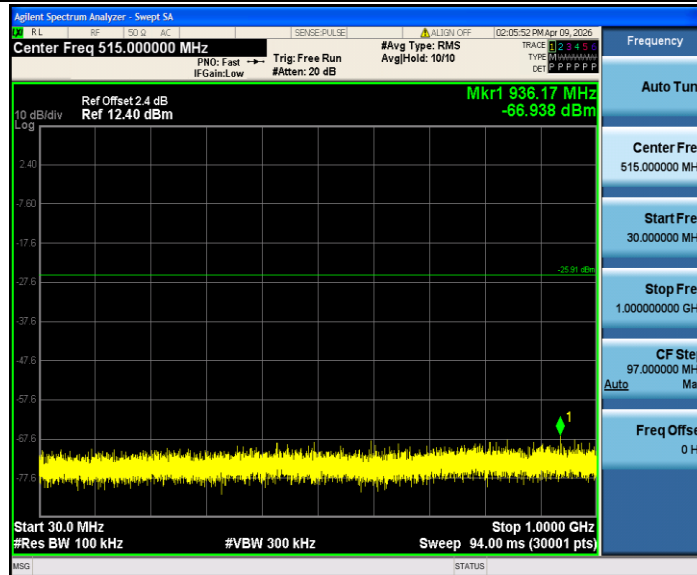
2DH5_Ant1_2441_1000~26500



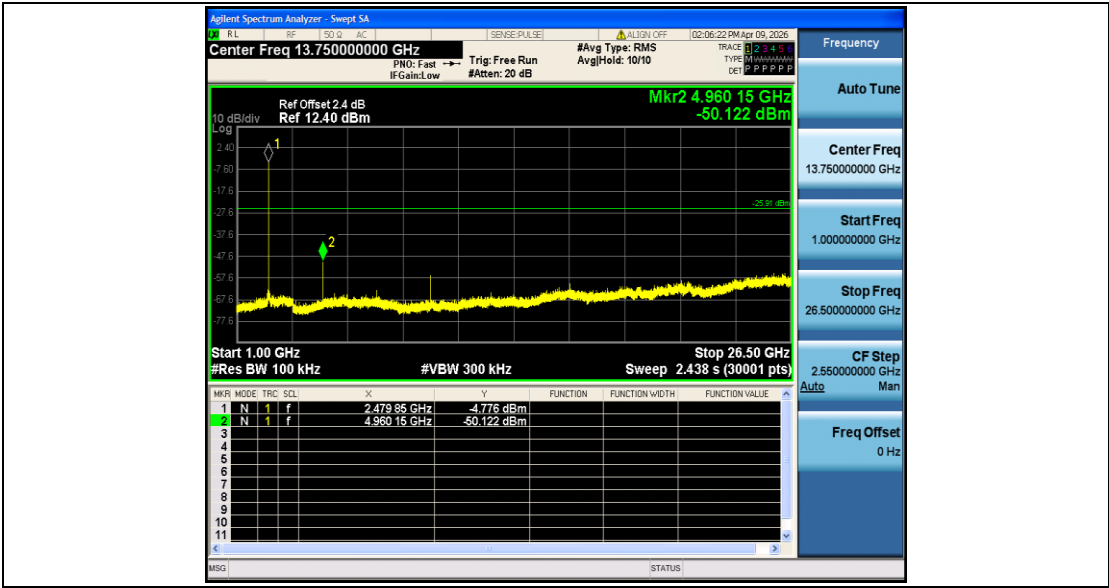
2DH5_Ant1_2480_0~Reference



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	---	---