

FCC Appendix RF Test Data for BT

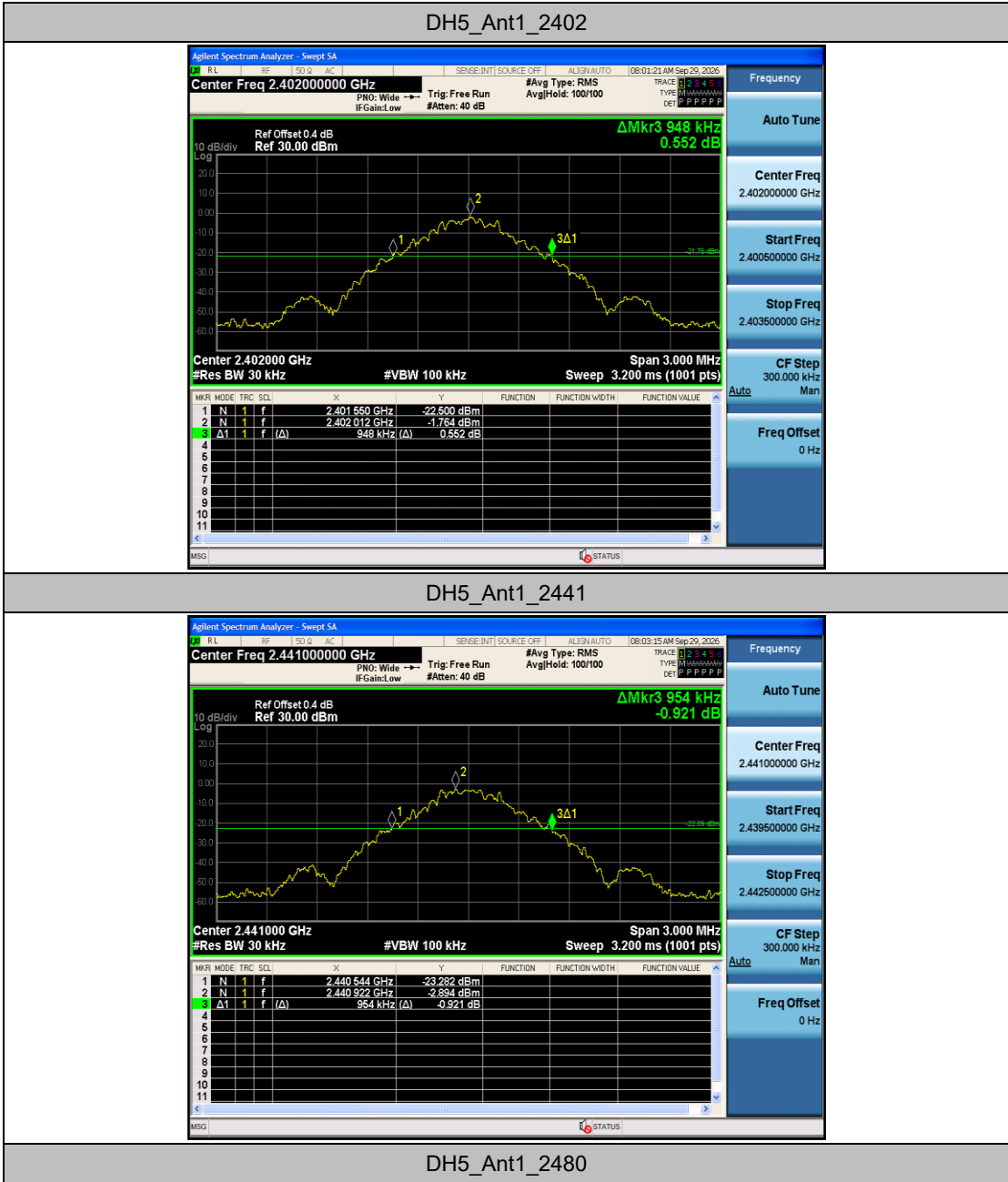
FCC ID : 2BUMN-DY159
Company : DAZONE LLC
EUT : SPEAKER
Model Number : DY159
Report No. : CTA26091501701
Reviewed By : Eric Wang

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	2401.550	2402.498	---	---
		2441	0.954	2440.544	2441.498	---	---
		2480	0.969	2479.538	2480.507	---	---
2DH5	Ant1	2402	1.326	2401.346	2402.672	---	---
		2441	1.347	2440.334	2441.681	---	---
		2480	1.332	2479.346	2480.678	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

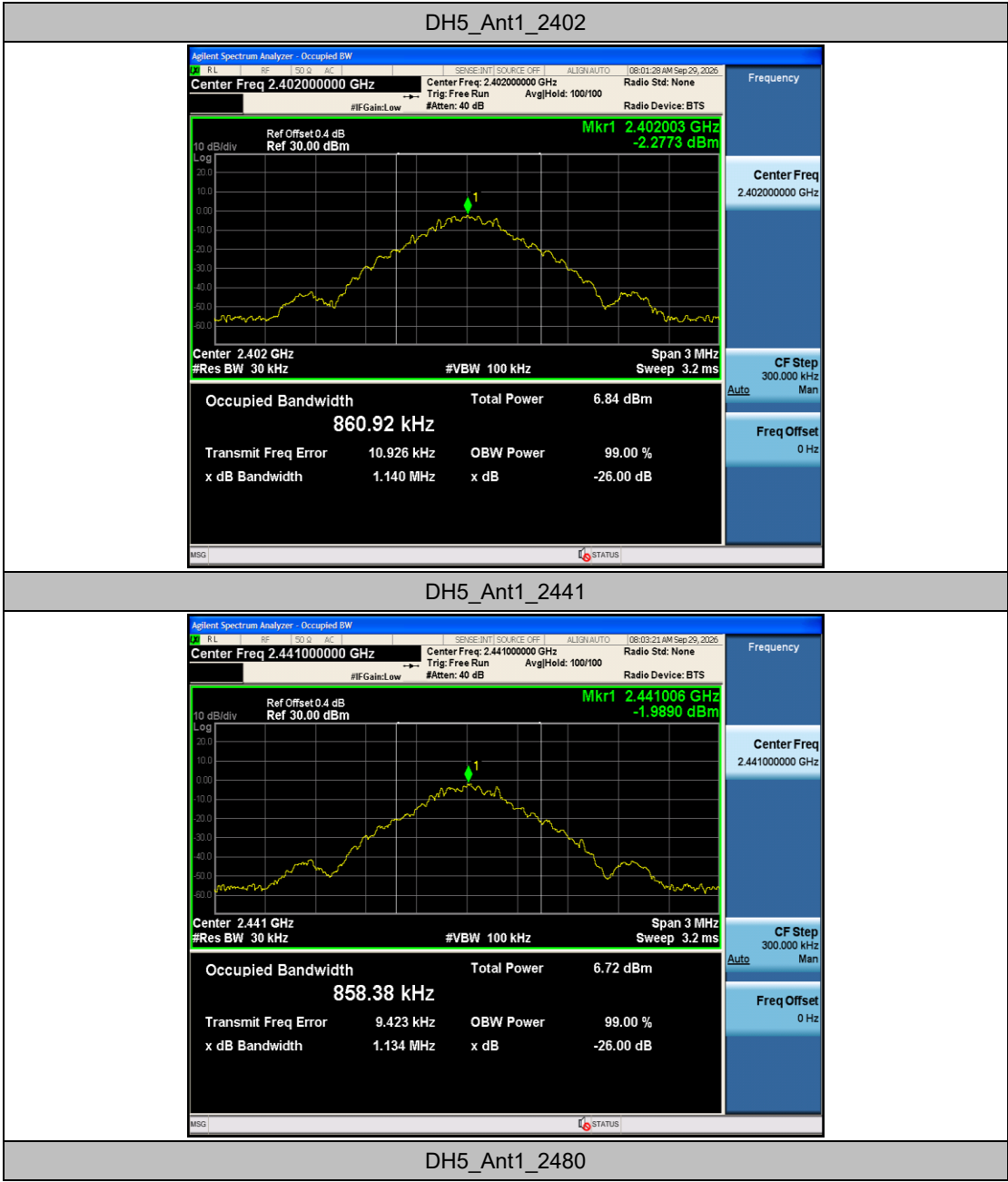


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86092	2401.5805	2402.4414	---	---
		2441	0.85838	2440.5802	2441.4386	---	---
		2480	0.87140	2479.5713	2480.4427	---	---
2DH5	Ant1	2402	1.1837	2401.4174	2402.6011	---	---
		2441	1.1924	2440.4138	2441.6062	---	---
		2480	1.1834	2479.4169	2480.6003	---	---

Test Graphs





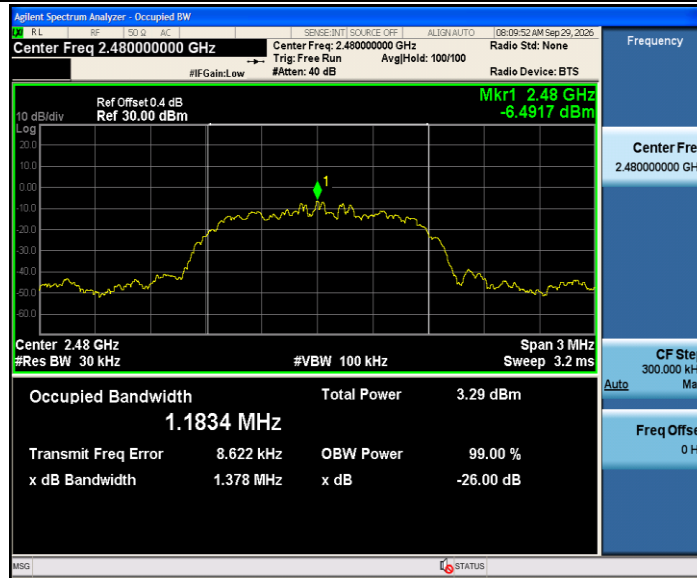
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

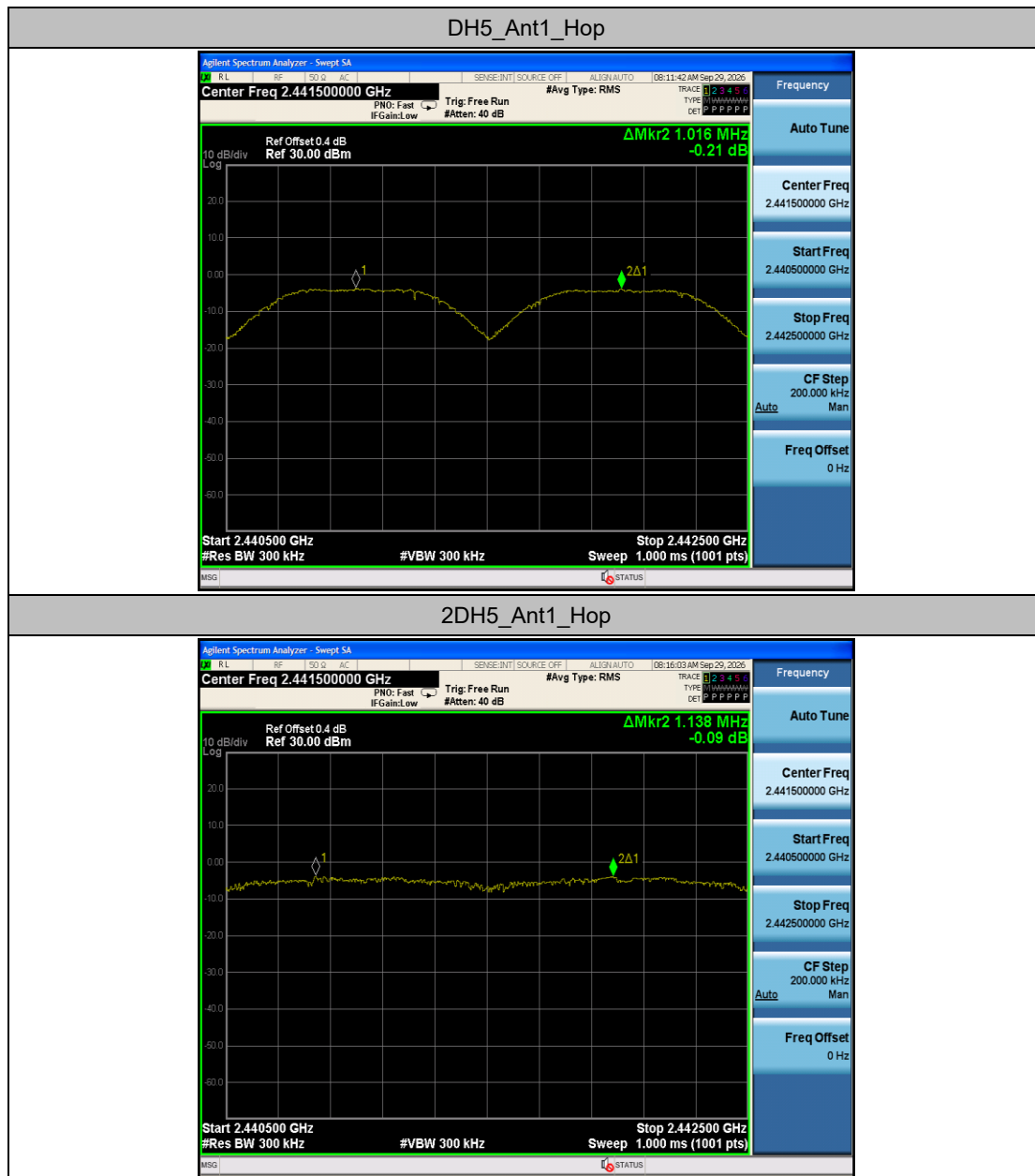
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.05	≤20.97	PASS
		2441	-0.04	≤20.97	PASS
		2480	-0.28	≤20.97	PASS
2DH5	Ant1	2402	-0.81	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-1.14	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.016	≥ 0.969	PASS
2DH5	Ant1	Hop	1.138	≥ 0.898	PASS

Test Graphs

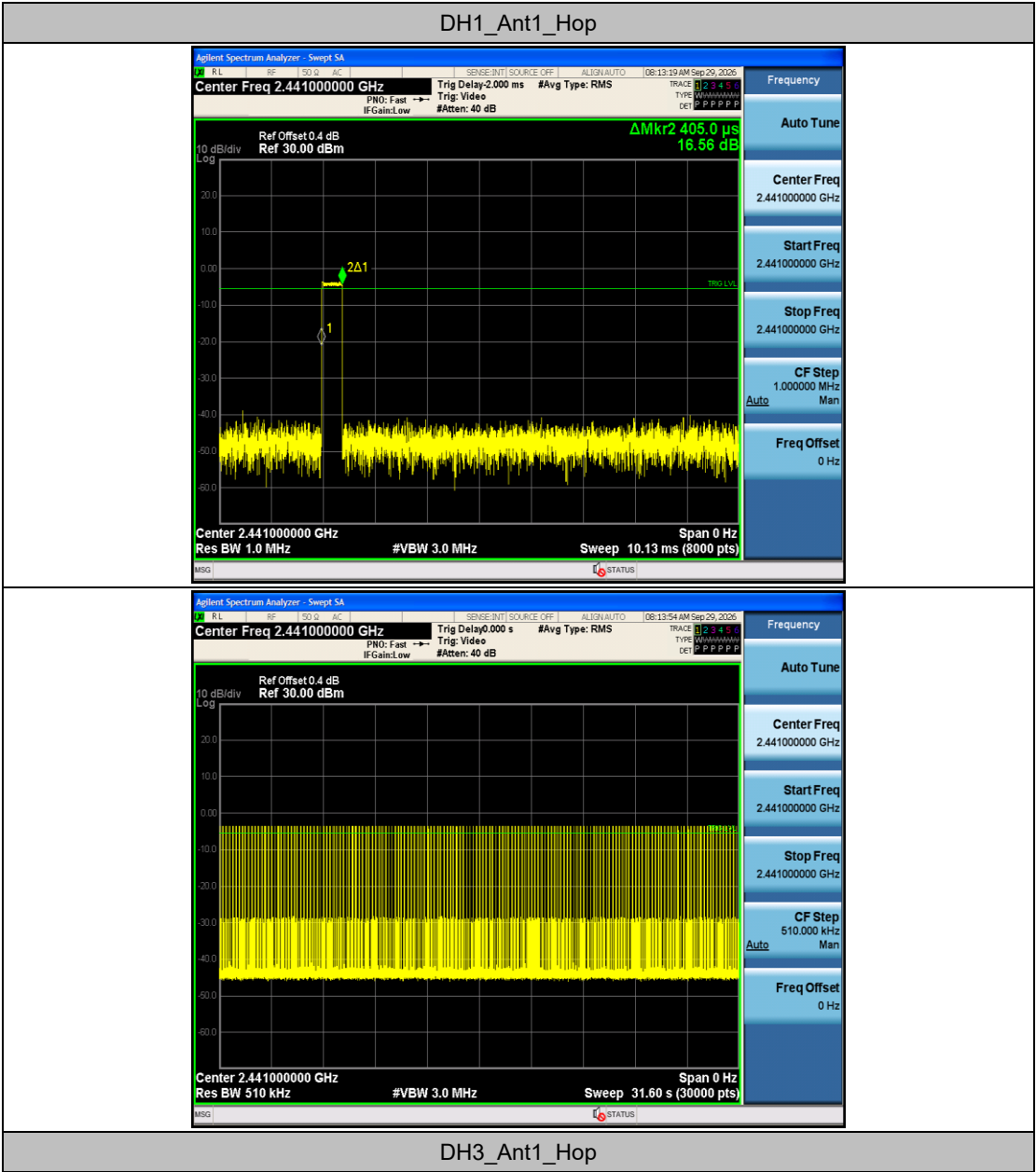


Appendix E: Time of occupancy

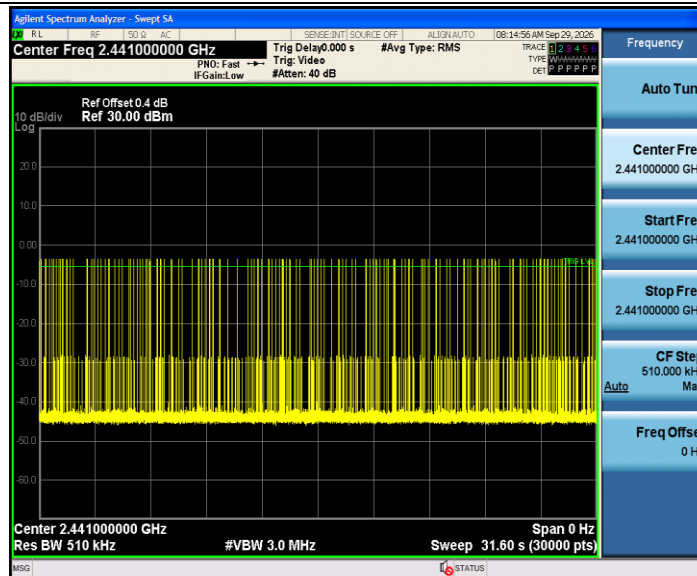
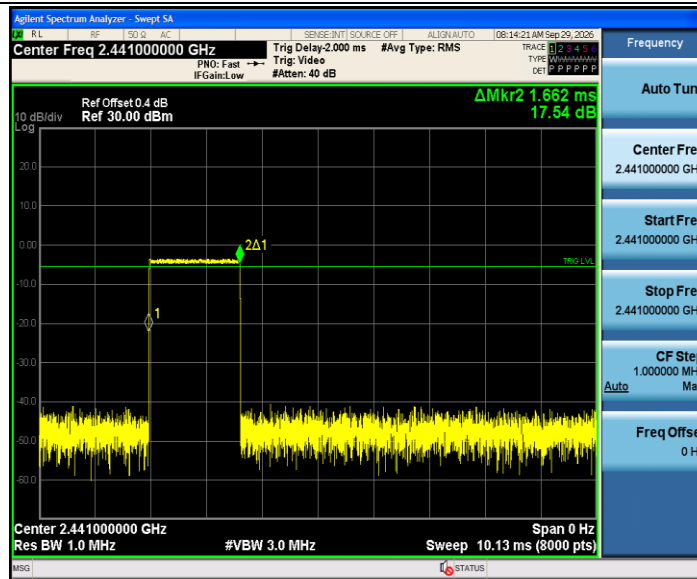
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	318	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	157	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.910	106	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.415	311	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.667	159	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.916	113	0.33	≤0.4	PASS

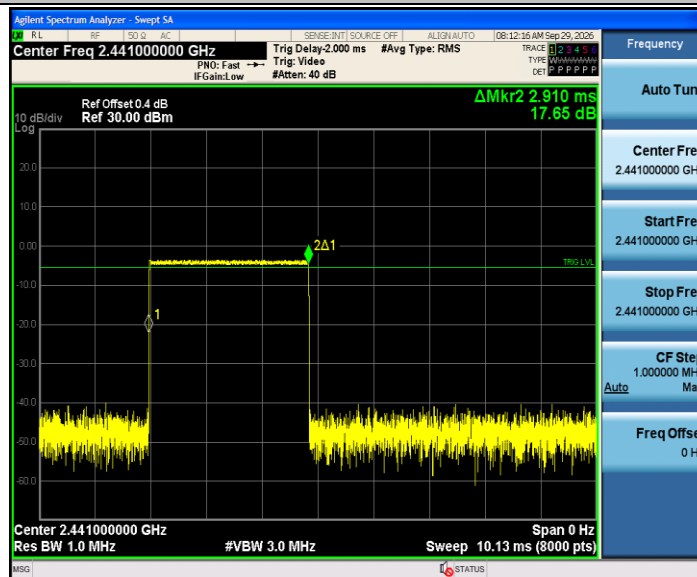
Test Graphs

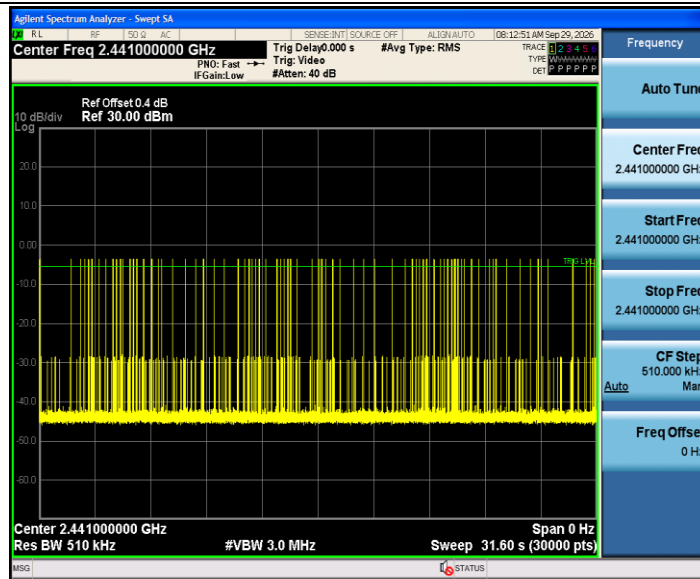


DH3_Ant1_Hop

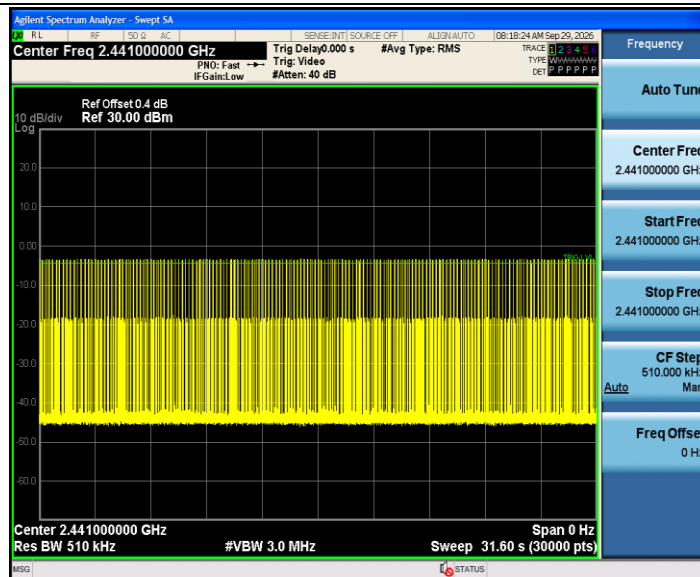
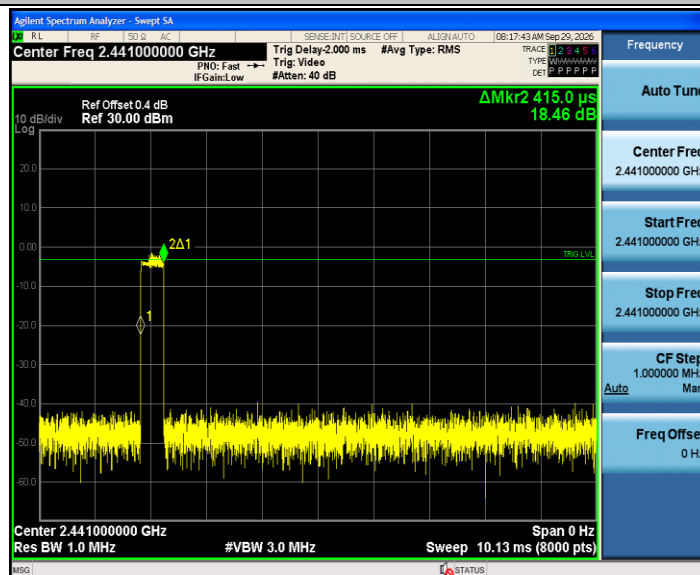


DH5_Ant1_Hop

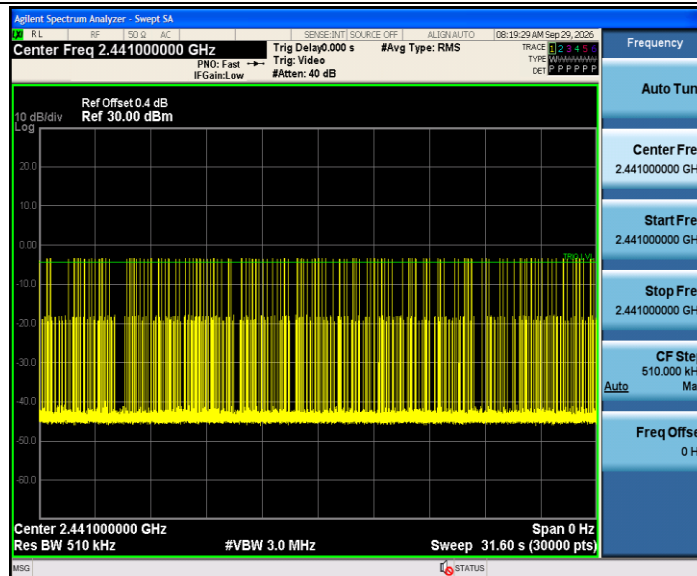
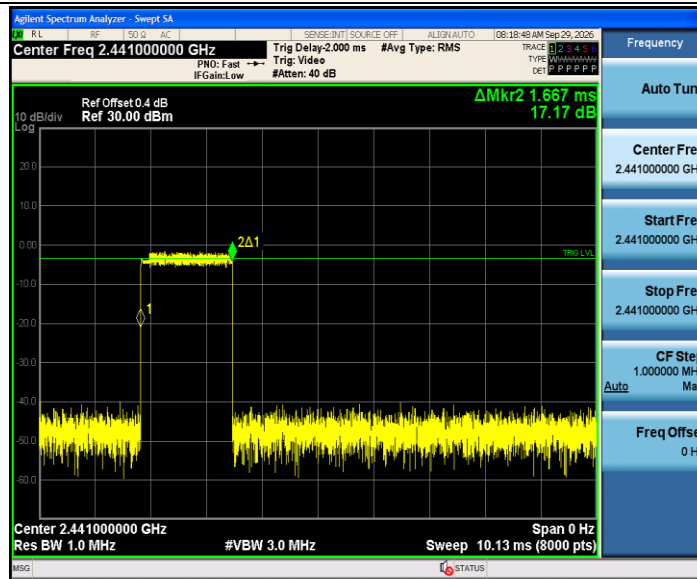




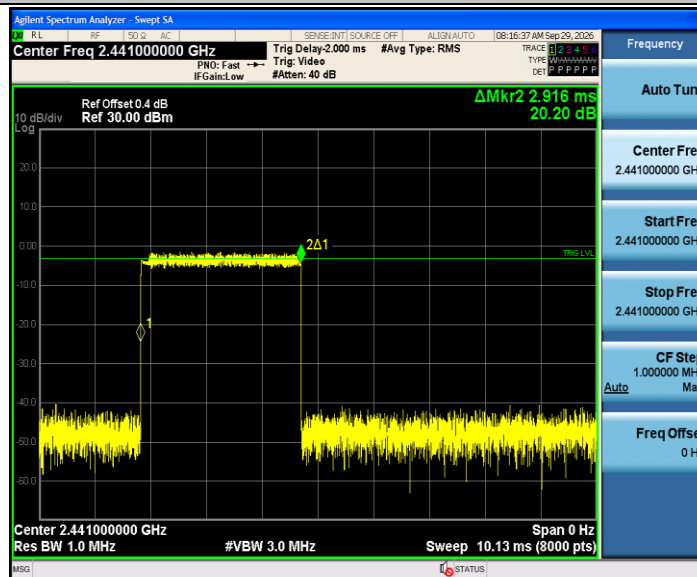
2DH1_Ant1_Hop

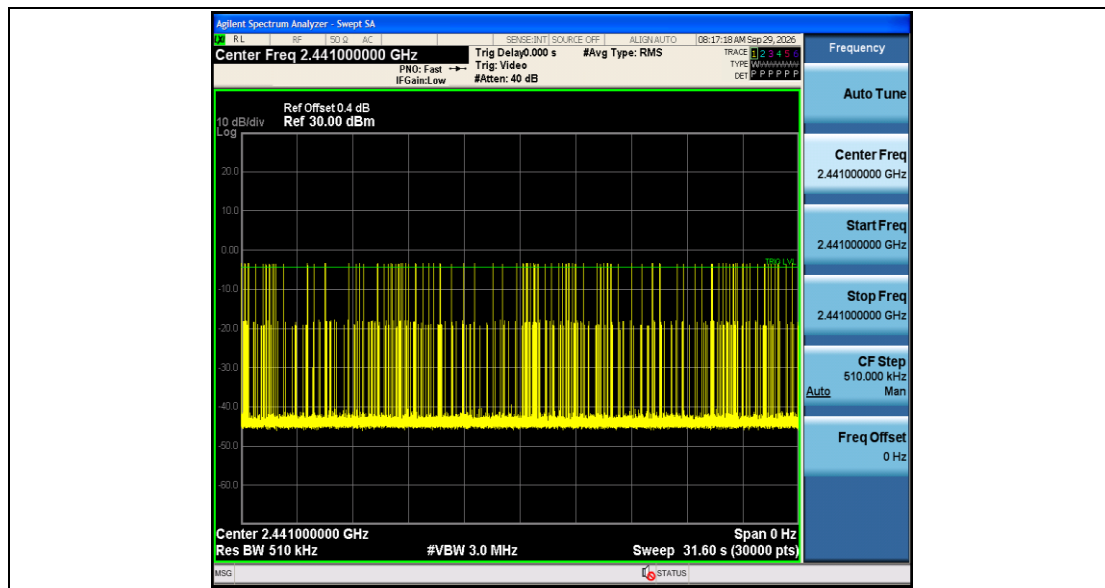


2DH3_Ant1_Hop



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

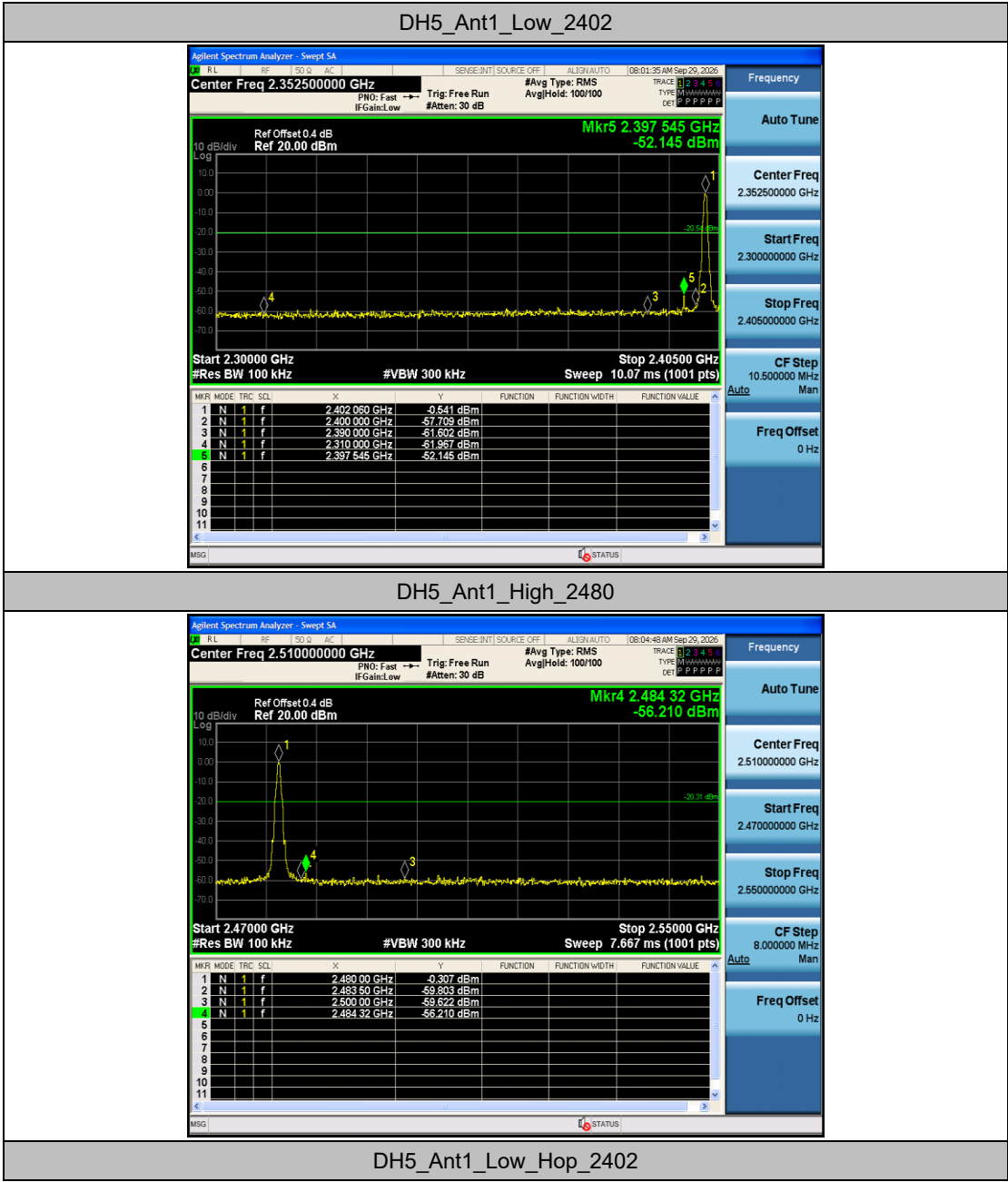


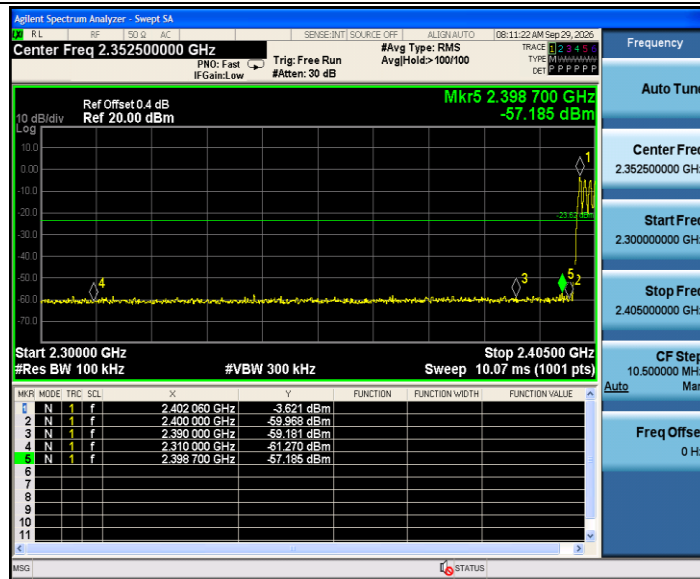
Appendix G: Band edge measurements

Test Result

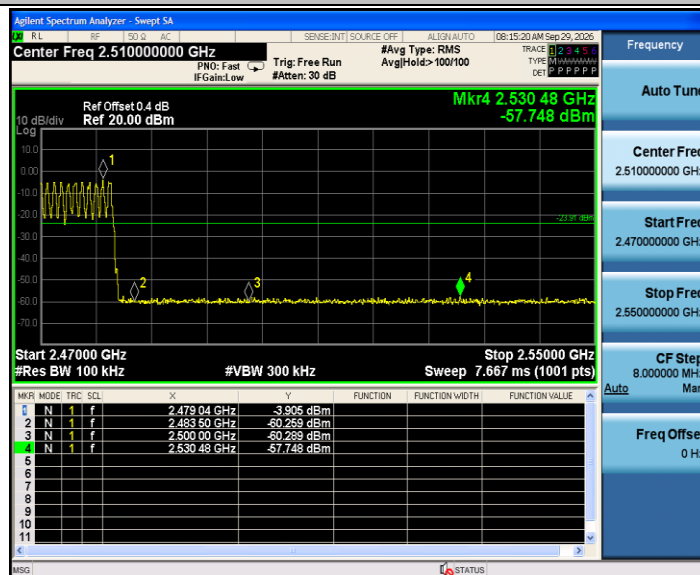
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.54	-52.15	≤-20.54	PASS
		High	2480	-0.31	-56.21	≤-20.31	PASS
		Low	Hop_2402	-3.62	-57.19	≤-23.62	PASS
		High	Hop_2480	-3.91	-57.75	≤-23.91	PASS
2DH5	Ant1	Low	2402	-6.49	-56.84	≤-26.49	PASS
		High	2480	-5.21	-57.82	≤-25.21	PASS
		Low	Hop_2402	-7.35	-58.17	≤-27.35	PASS
		High	Hop_2480	-4.38	-57.09	≤-24.38	PASS

Test Graphs

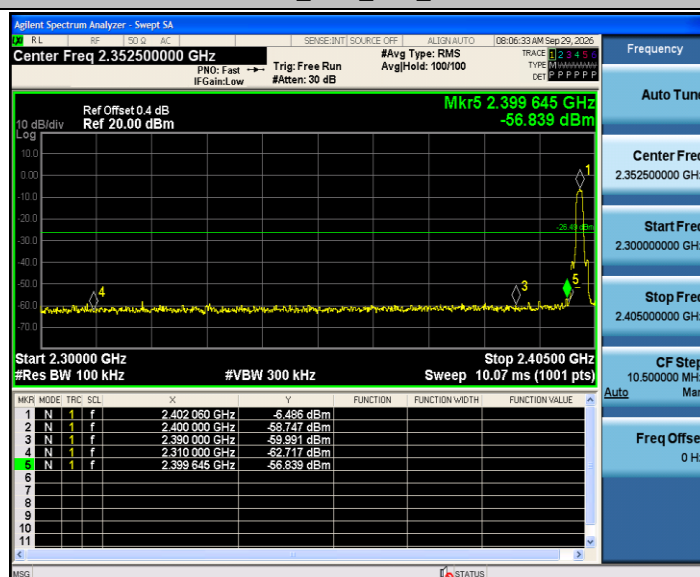




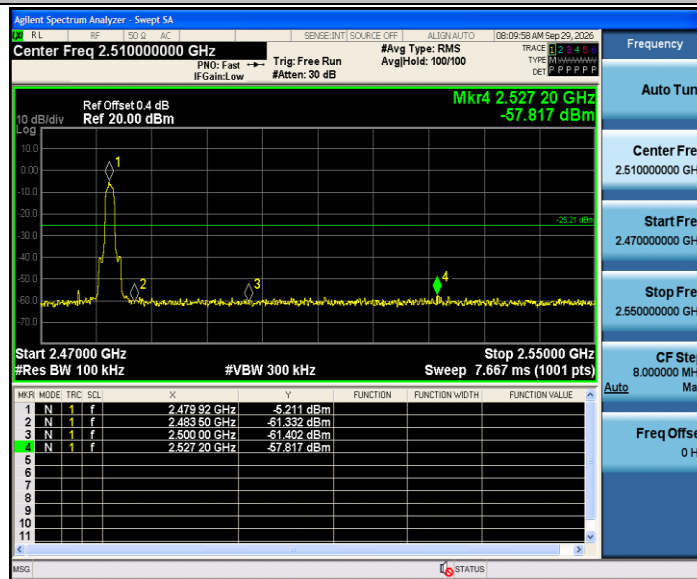
DH5_Ant1_High_Hop_2480



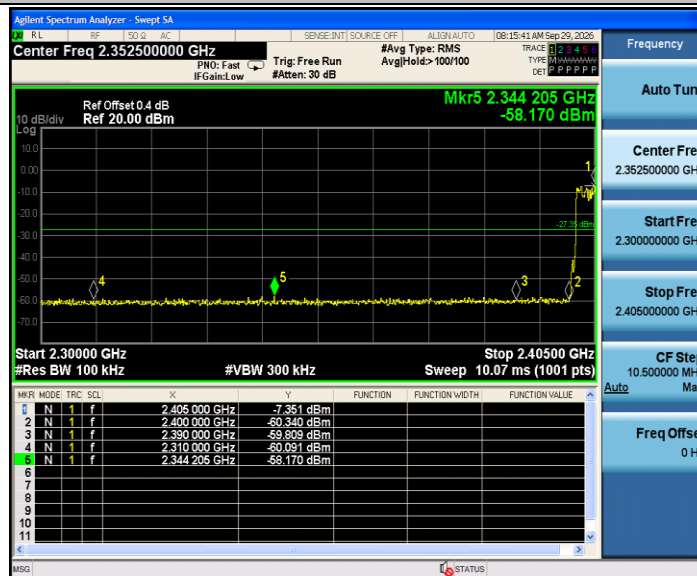
2DH5_Ant1_Low_2402



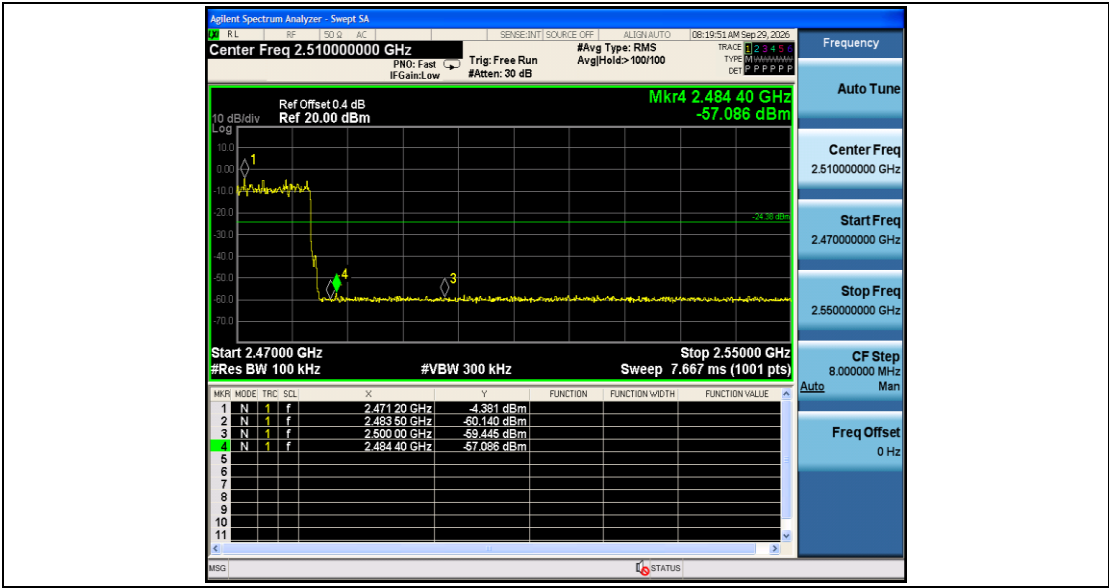
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

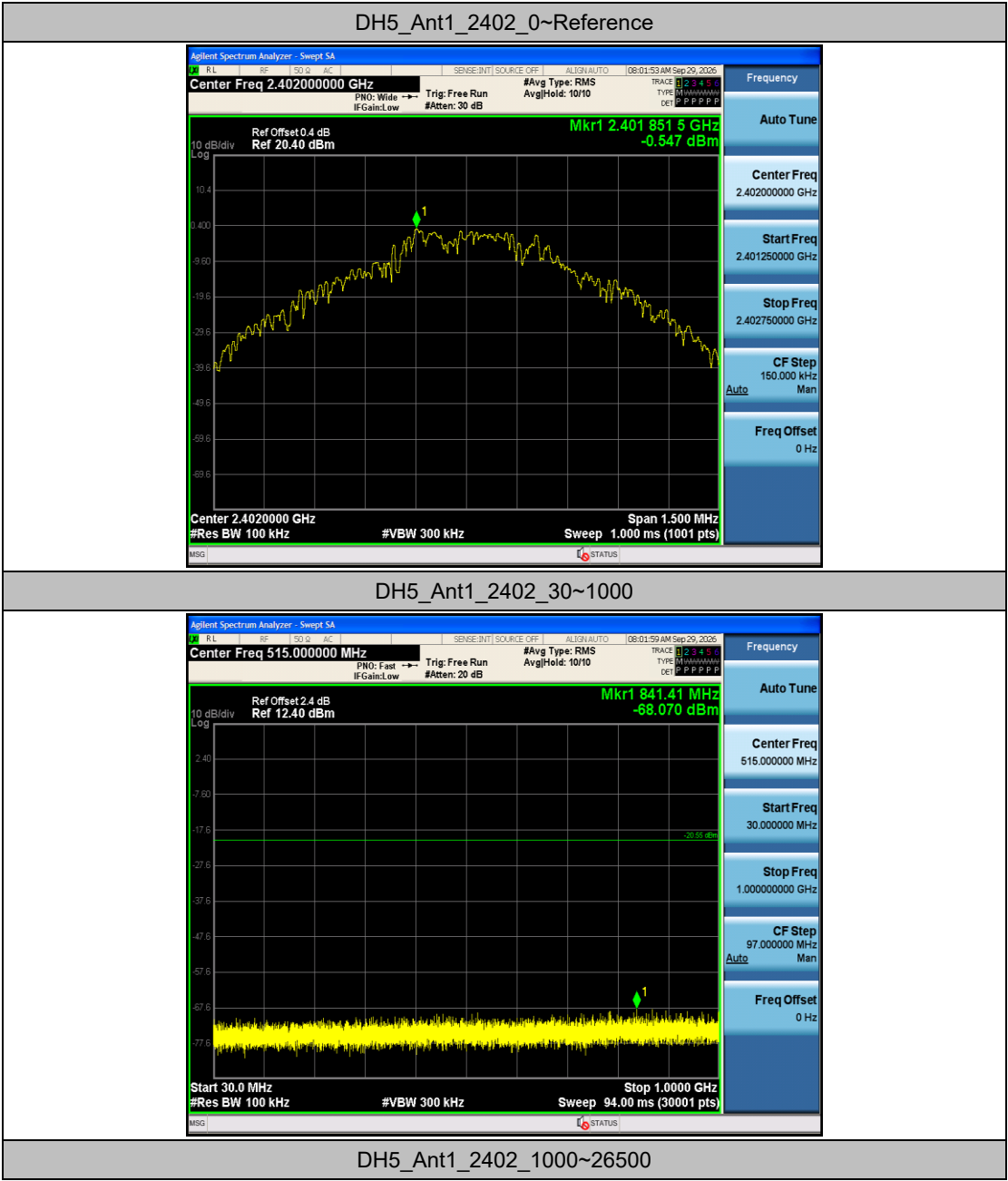


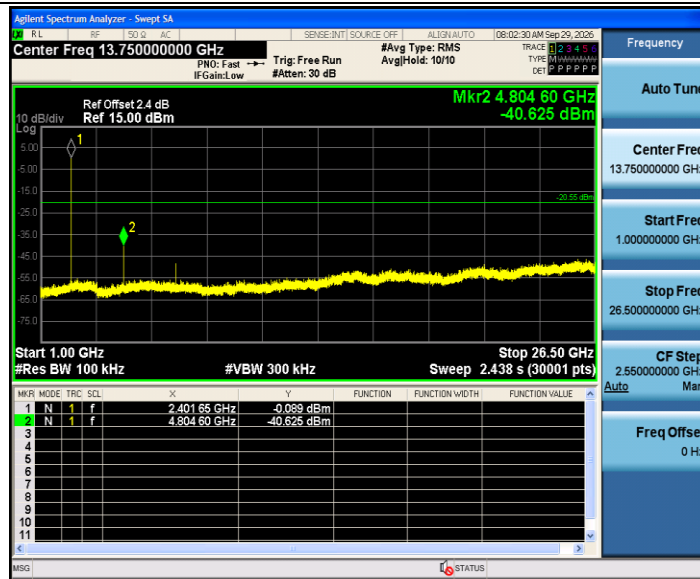
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-68.07	≤-20.55	PASS
			1000~26500	-0.55	-40.63	≤-20.55	PASS
		2441	Reference	-0.94	-0.94	---	PASS
			30~1000	-0.94	-68.45	≤-20.94	PASS
			1000~26500	-0.94	-42.26	≤-20.94	PASS
		2480	Reference	-1.57	-1.57	---	PASS
			30~1000	-1.57	-68.42	≤-21.57	PASS
			1000~26500	-1.57	-41.47	≤-21.57	PASS
2DH5	Ant1	2402	Reference	-4.30	-4.30	---	PASS
			30~1000	-4.30	-68.05	≤-24.3	PASS
			1000~26500	-4.30	-46.77	≤-24.3	PASS
		2441	Reference	-4.93	-4.93	---	PASS
			30~1000	-4.93	-68.08	≤-24.93	PASS
			1000~26500	-4.93	-45.99	≤-24.93	PASS
		2480	Reference	-7.02	-7.02	---	PASS
			30~1000	-7.02	-68.49	≤-27.02	PASS
			1000~26500	-7.02	-46.3	≤-27.02	PASS

Test Graphs

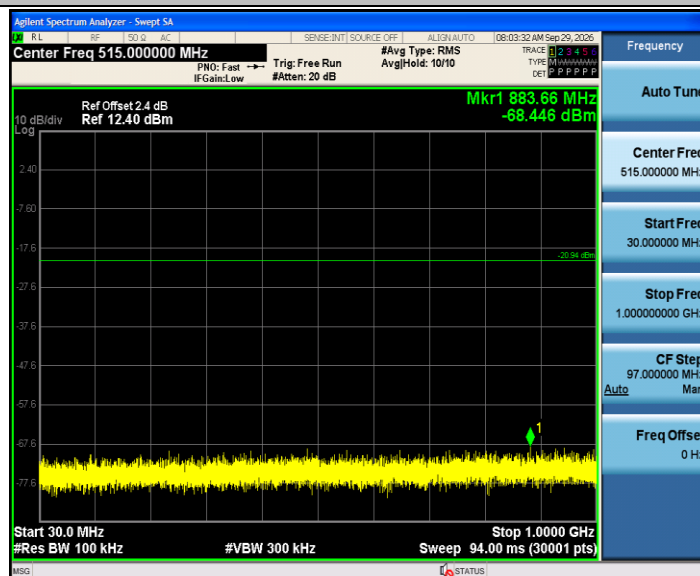




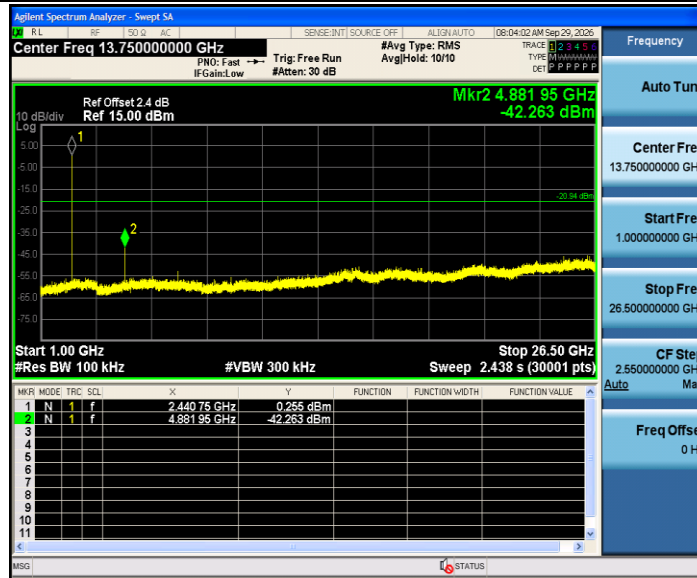
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



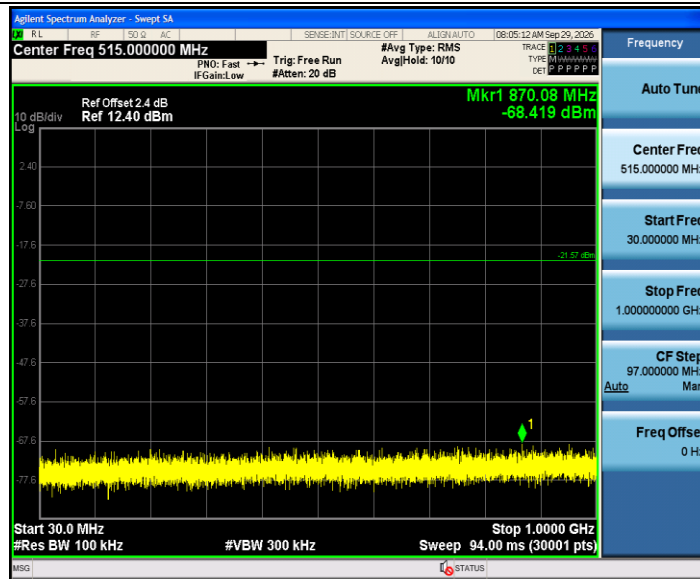
DH5_Ant1_2441_1000~26500



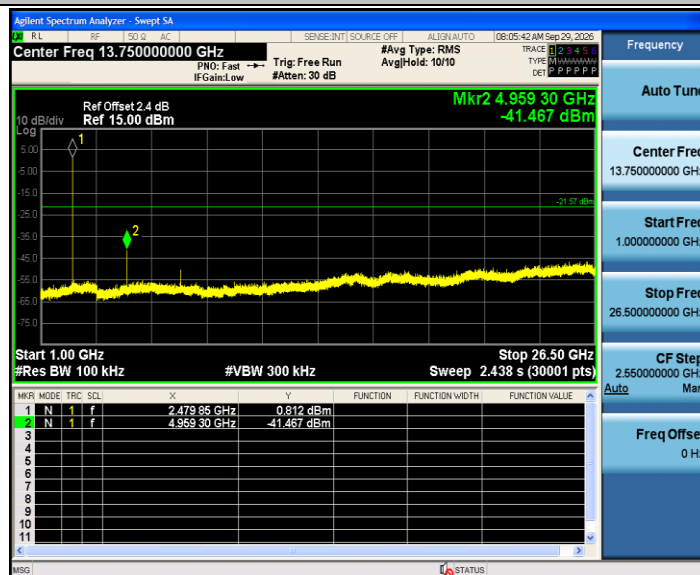
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



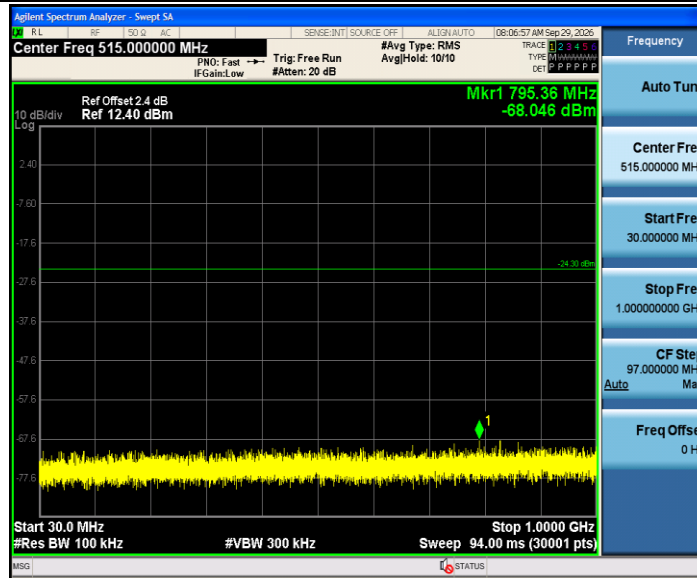
DH5_Ant1_2480_1000~26500



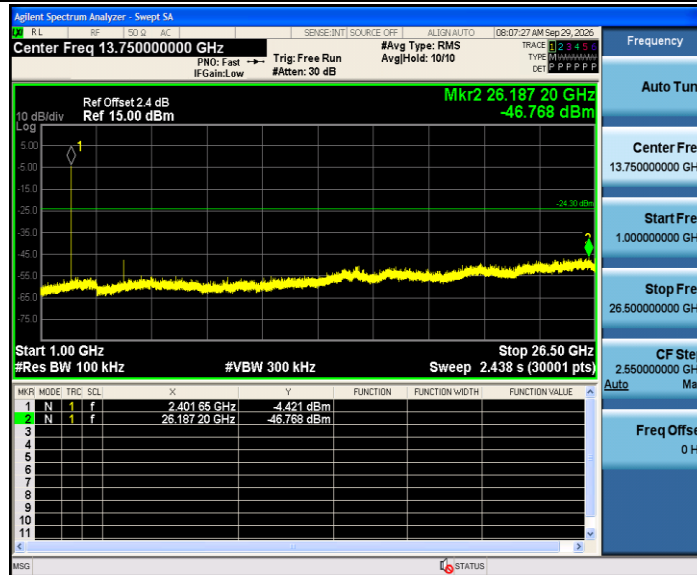
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



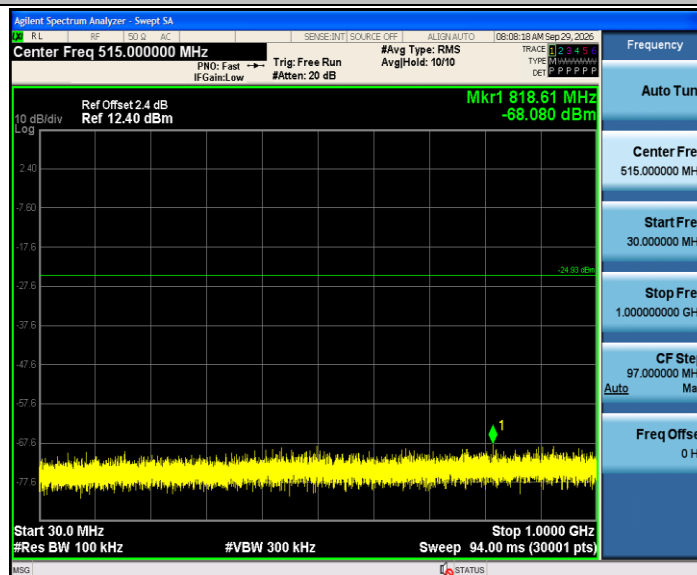
2DH5_Ant1_2402_1000~26500



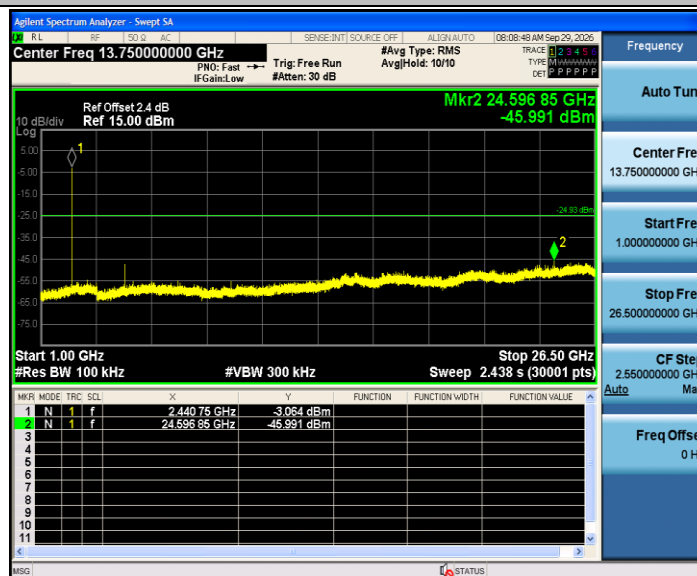
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



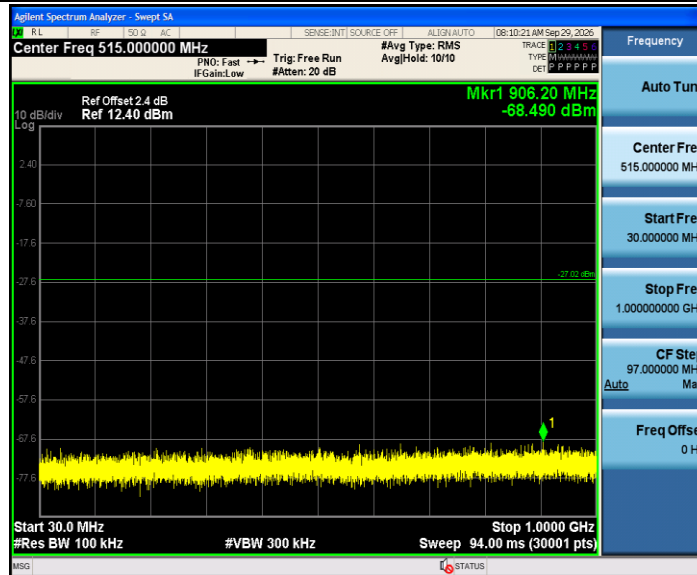
2DH5_Ant1_2441_1000~26500



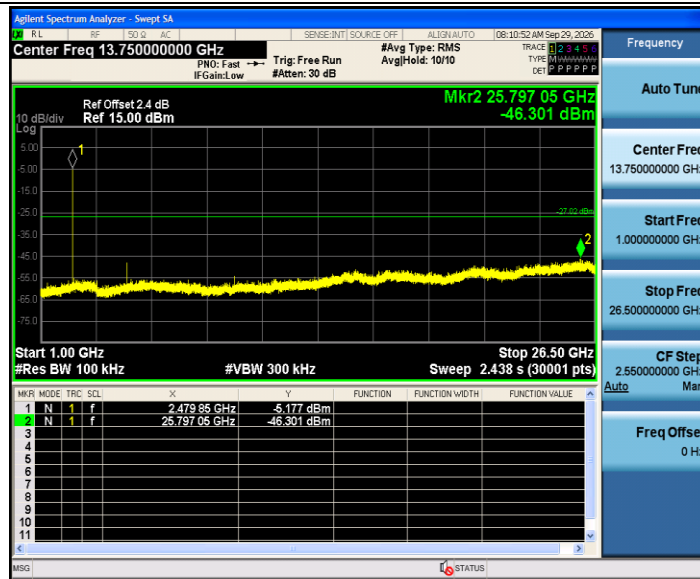
2DH5_Ant1_2480_0~Reference



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	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.74	77.81	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---