

FCC Appendix RF Test Data for BT

FCC ID : 2BQZR-A1500

Company : Guangzhou Xiangyun Flavor Technology Co., Ltd.

EUT : Aroma diffuser

Model Number : A1500

Report No. : CTA25121500902

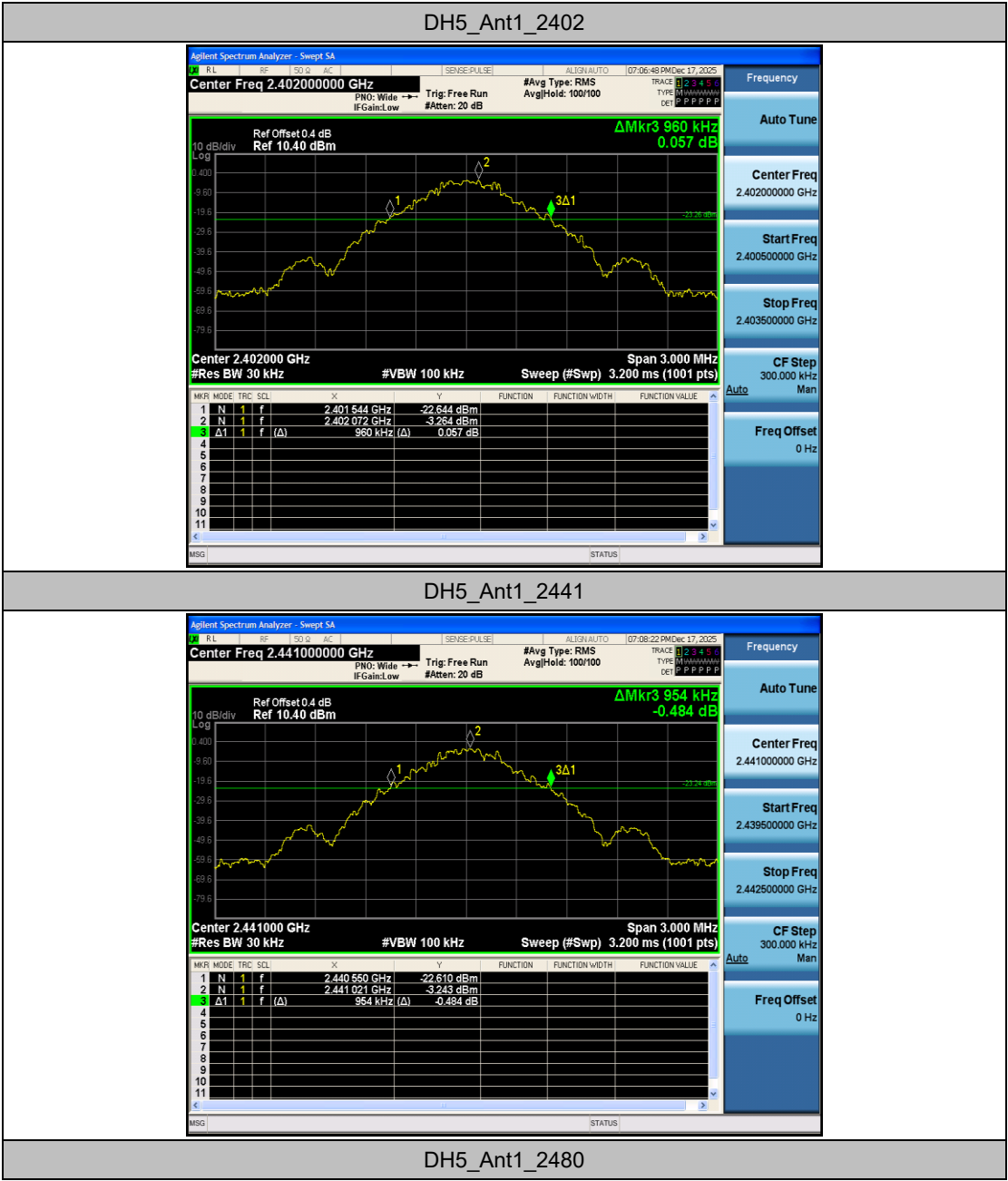
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

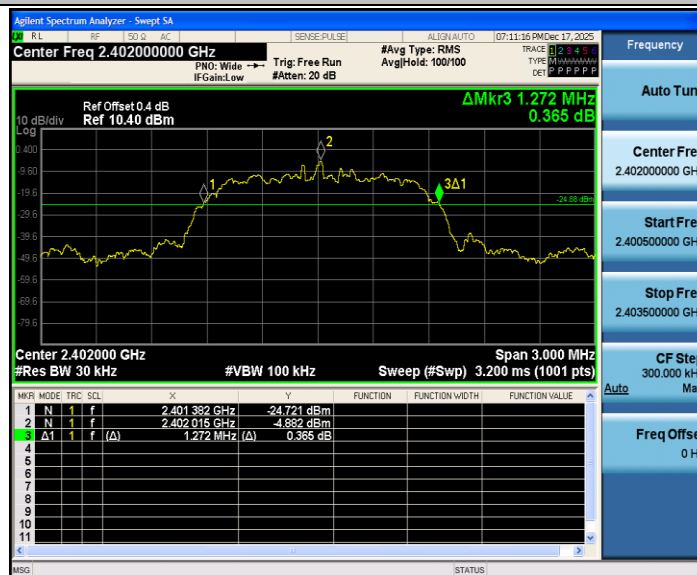
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.544	2402.504	---	---
		2441	0.954	2440.550	2441.504	---	---
		2480	0.948	2479.547	2480.495	---	---
2DH5	Ant1	2402	1.272	2401.382	2402.654	---	---
		2441	1.341	2440.340	2441.681	---	---
		2480	1.323	2479.349	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

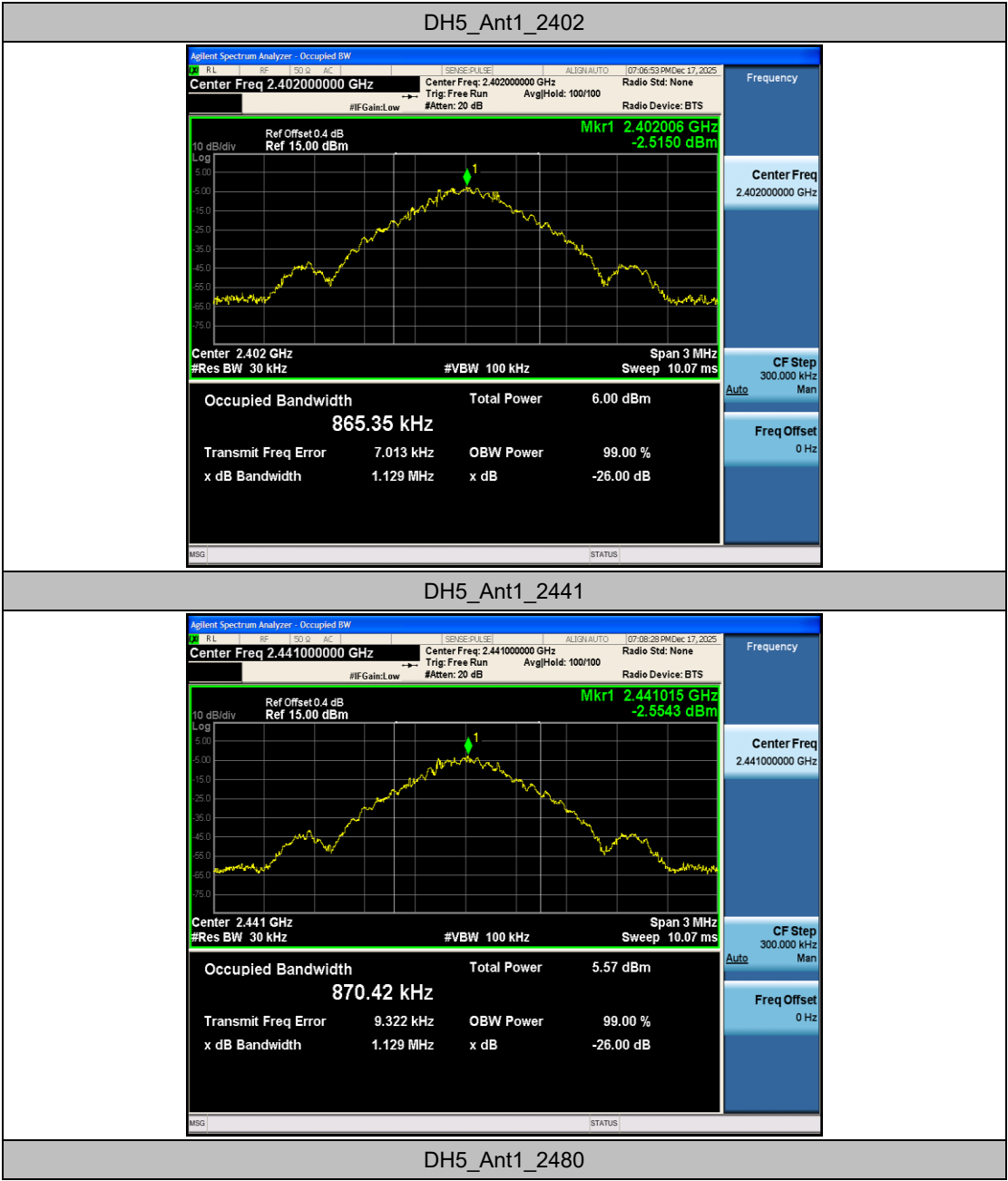


Appendix B: Occupied Channel Bandwidth

Test Result

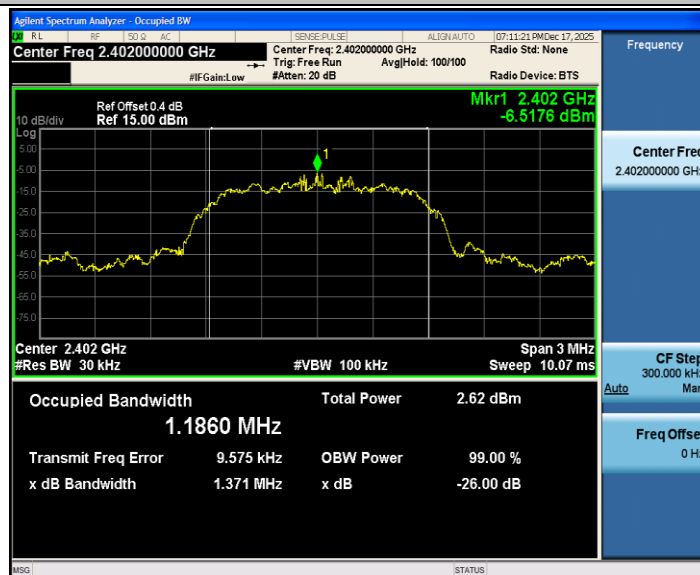
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86535	2401.5743	2402.4397	---	---
		2441	0.87042	2440.5741	2441.4445	---	---
		2480	0.87434	2479.5716	2480.4459	---	---
2DH5	Ant1	2402	1.1860	2401.4166	2402.6026	---	---
		2441	1.1855	2440.4183	2441.6038	---	---
		2480	1.1875	2479.4161	2480.6036	---	---

Test Graphs

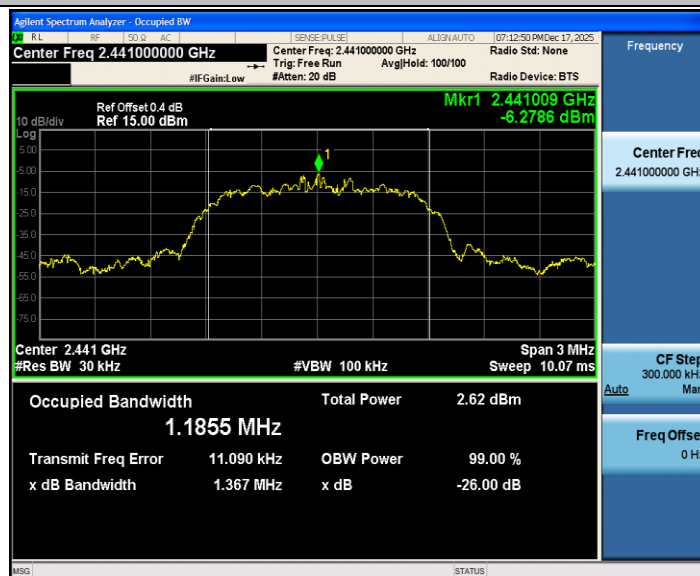




2DH5_Ant1_2402



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	0.03	≤20.97	PASS
		2441	-0.25	≤20.97	PASS
		2480	-0.34	≤20.97	PASS
2DH5	Ant1	2402	-0.82	≤20.97	PASS
		2441	-1.05	≤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	1.012	≥ 0.960	PASS
2DH5	Ant1	Hop	0.924	≥ 0.894	PASS

Test Graphs

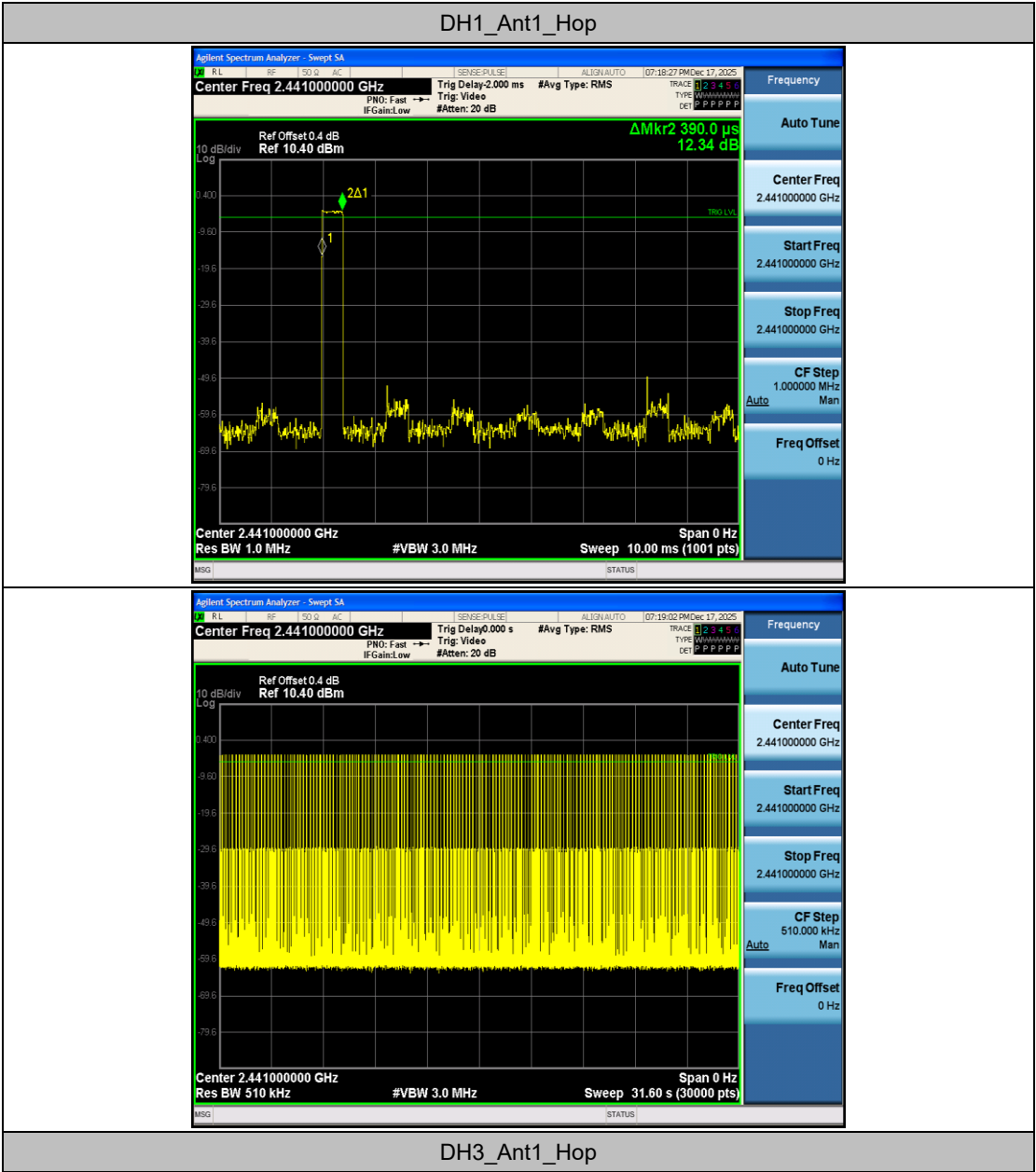


Appendix E: Time of occupancy

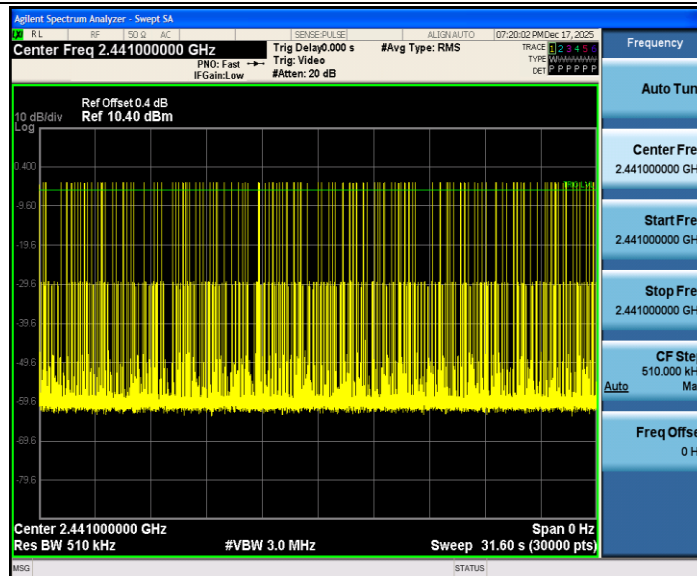
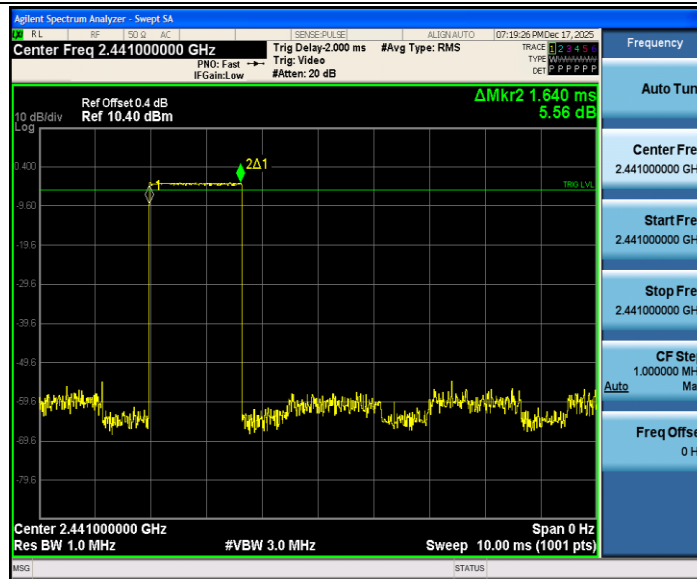
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	145	0.238	≤0.4	PASS
DH5	Ant1	Hop	2.890	99	0.286	≤0.4	PASS
2DH1	Ant1	Hop	0.400	319	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.650	159	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.900	114	0.331	≤0.4	PASS

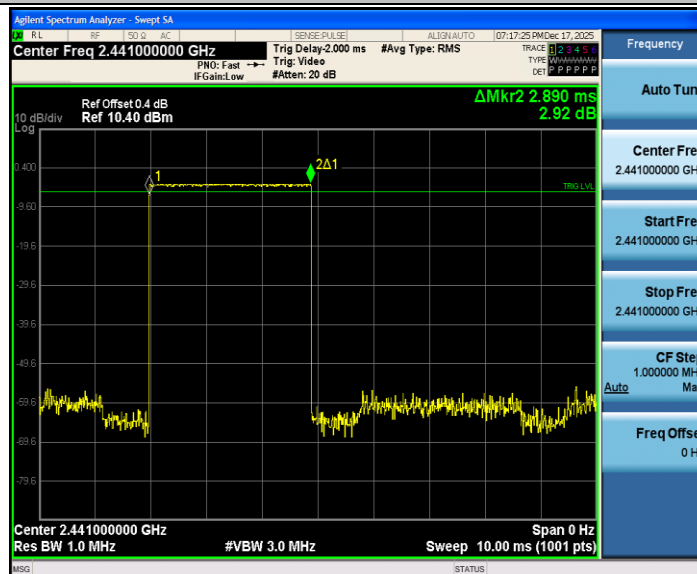
Test Graphs

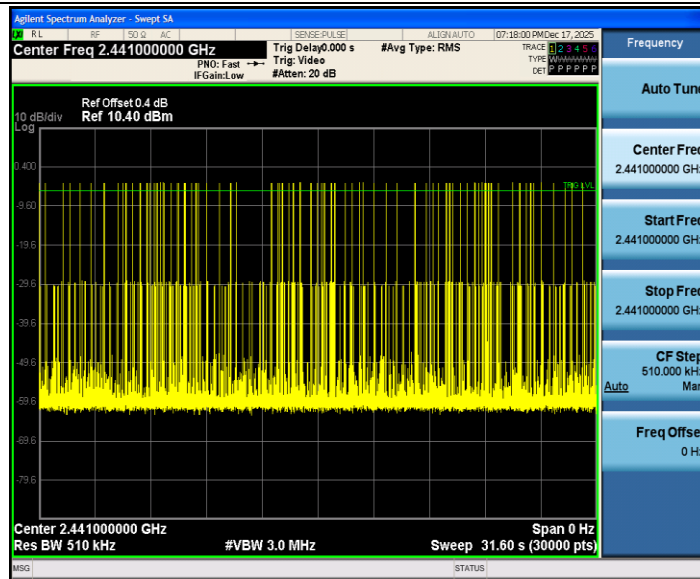


DH3_Ant1_Hop

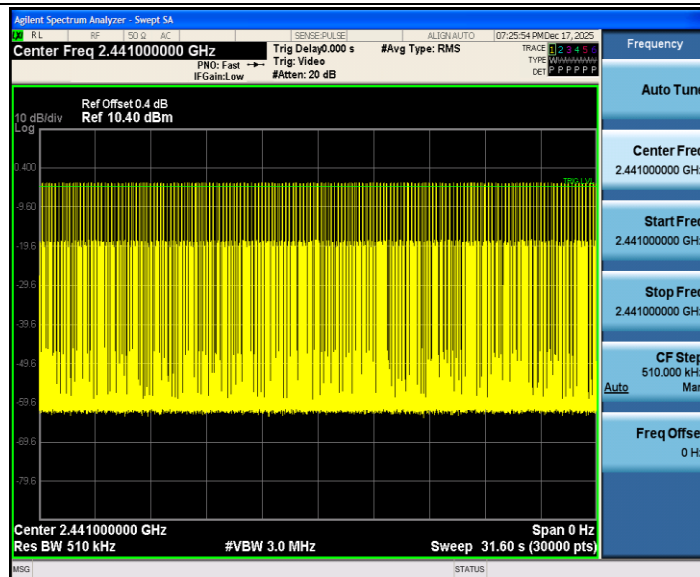
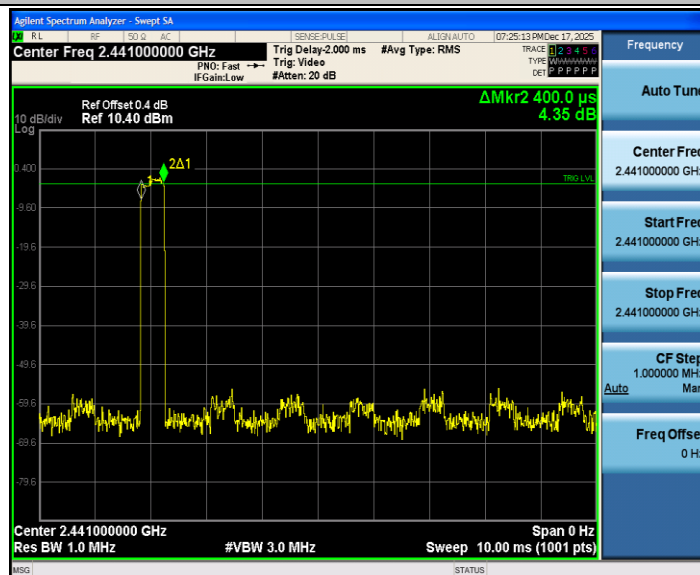


DH5_Ant1_Hop

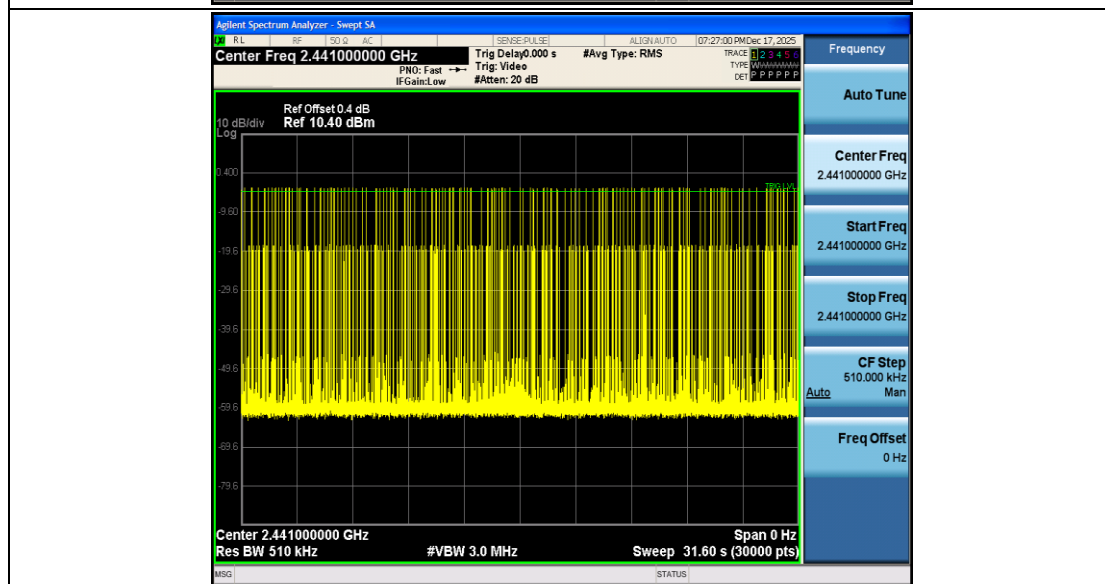




2DH1_Ant1_Hop

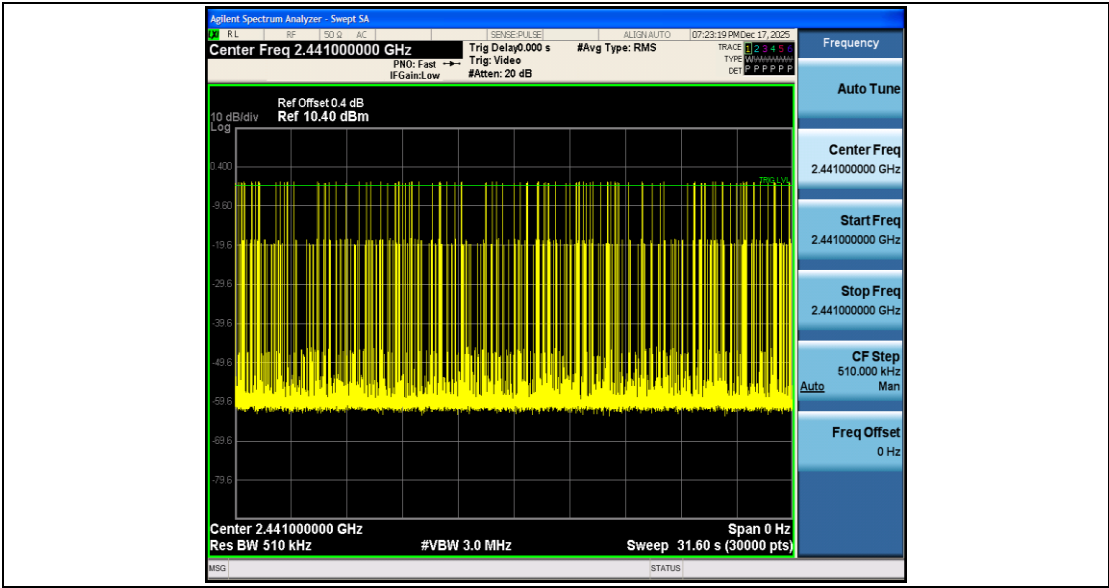


2DH3_Ant1_Hop



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

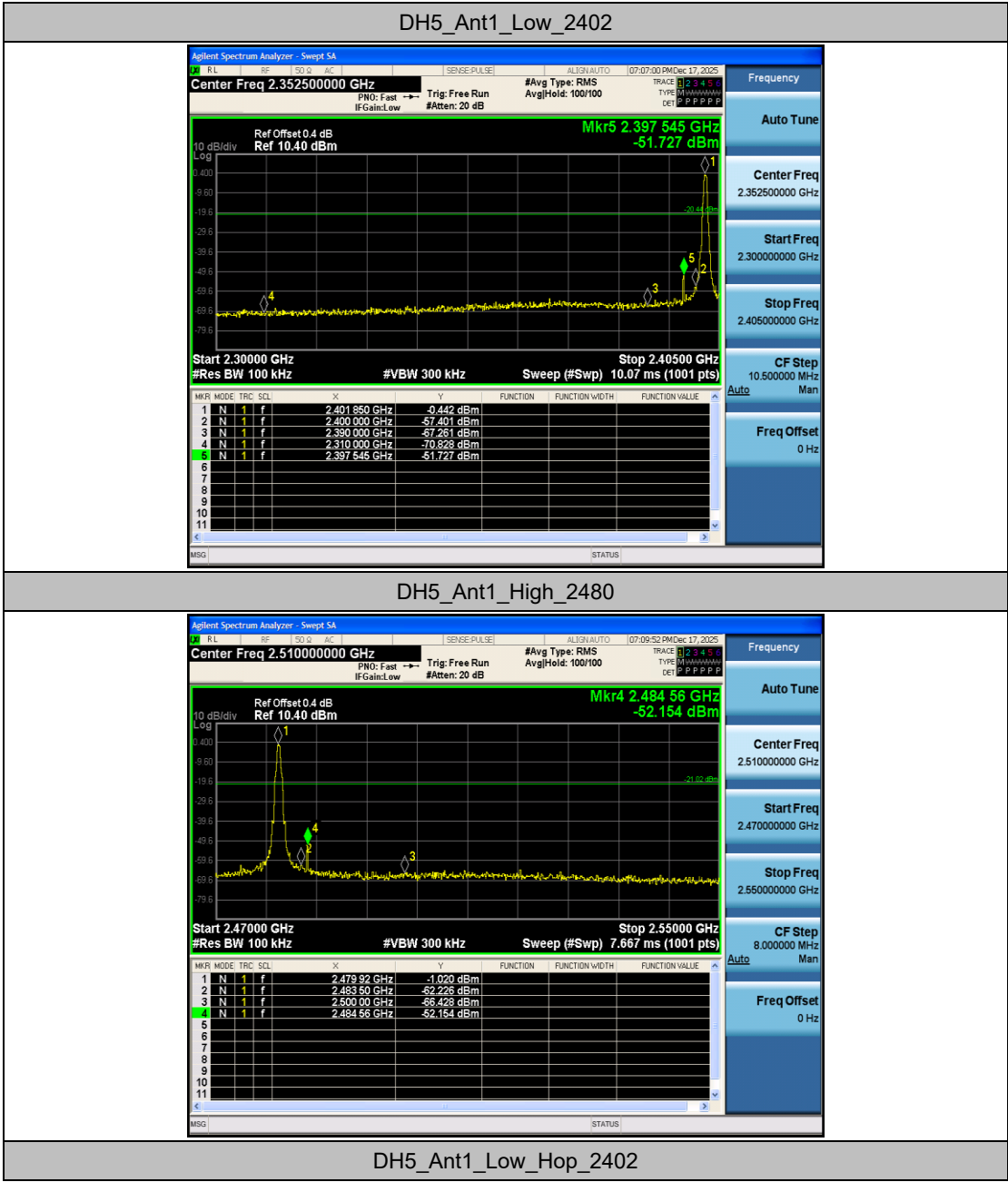


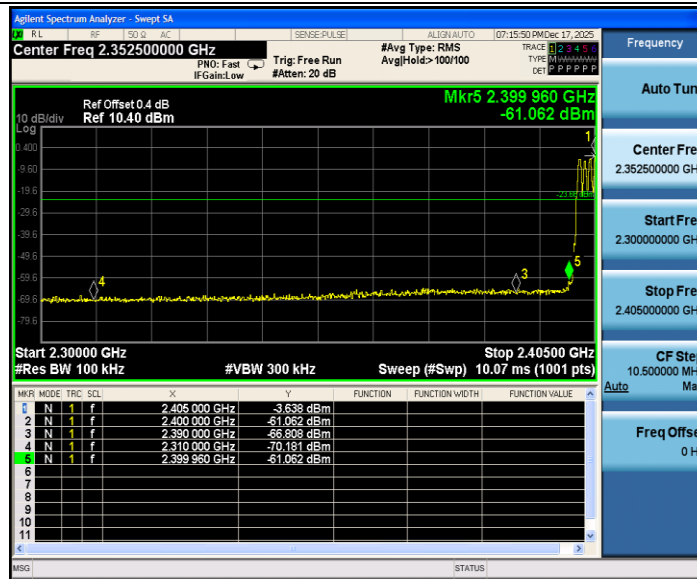
Appendix G: Band edge measurements

Test Result

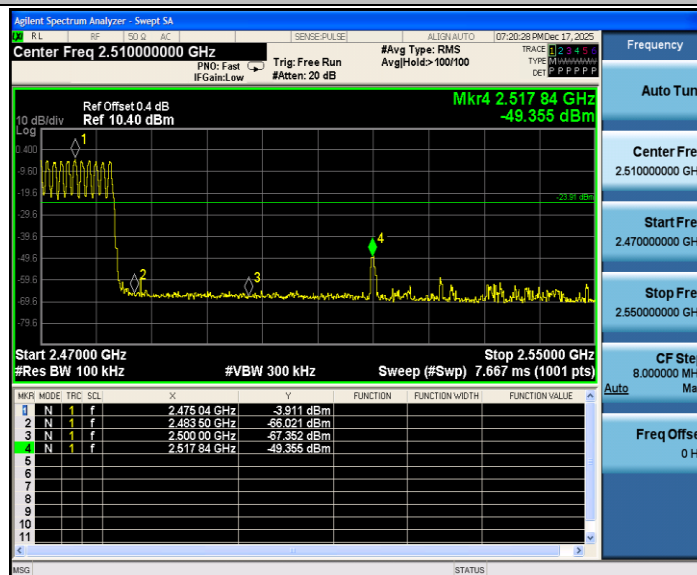
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.44	-51.73	≤-20.44	PASS
		High	2480	-1.02	-52.15	≤-21.02	PASS
		Low	Hop_2402	-3.66	-61.06	≤-23.66	PASS
		High	Hop_2480	-3.91	-55.22	≤-23.91	PASS
2DH5	Ant1	Low	2402	-3.38	-58.83	≤-23.38	PASS
		High	2480	-5.23	-55.83	≤-25.23	PASS
		Low	Hop_2402	-3.58	-62.75	≤-23.58	PASS
		High	Hop_2480	-5.29	-58.68	≤-25.29	PASS

Test Graphs

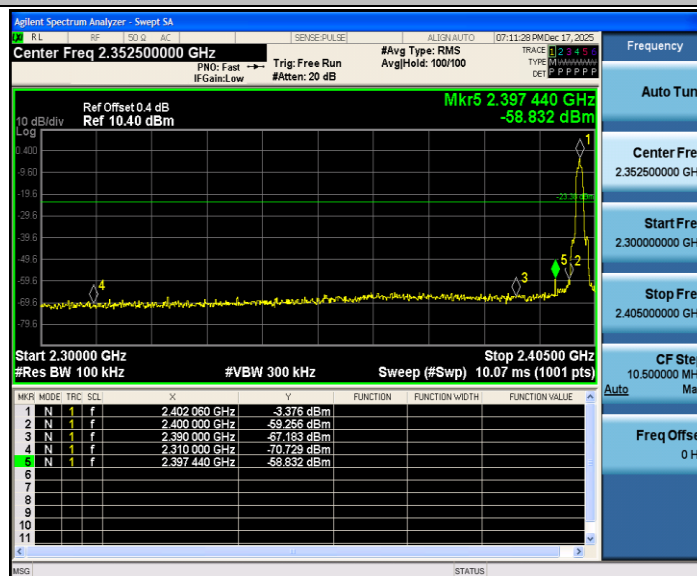




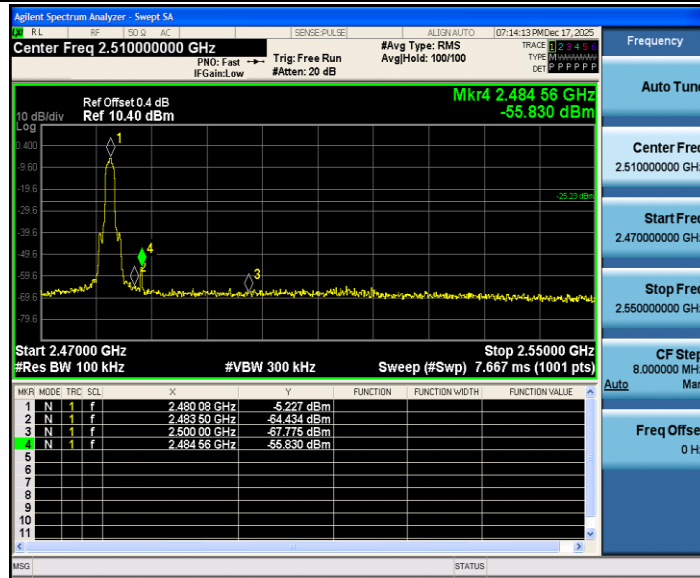
DH5_Ant1_High_Hop_2480



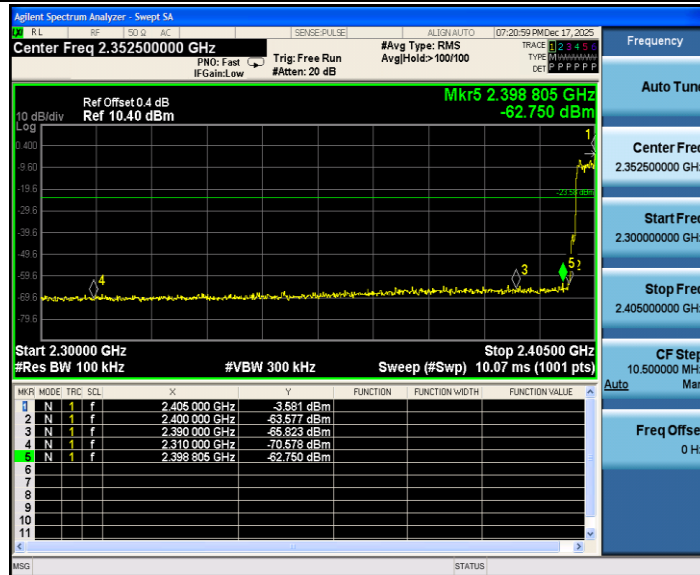
2DH5_Ant1_Low_2402



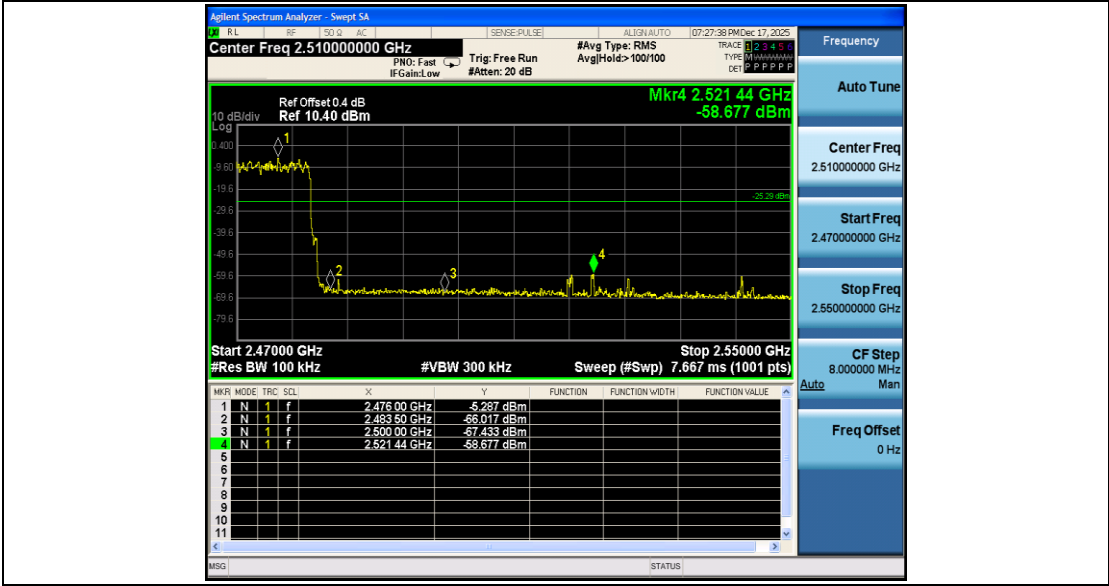
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

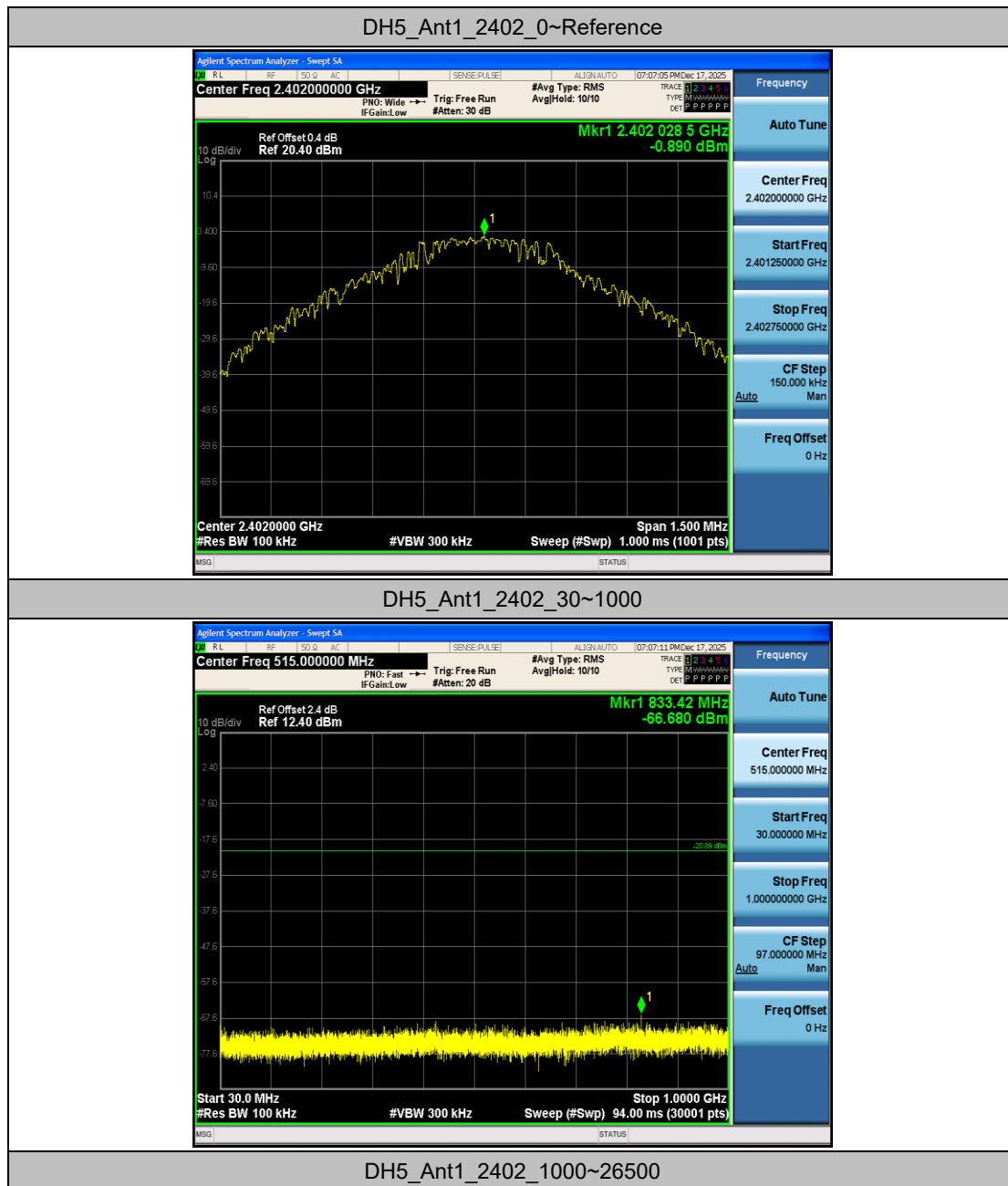


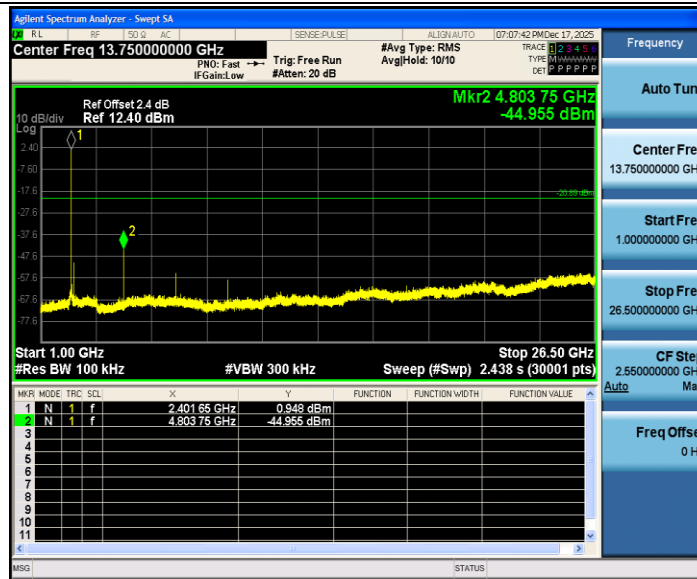
Appendix H: Conducted Spurious Emission

Test Result

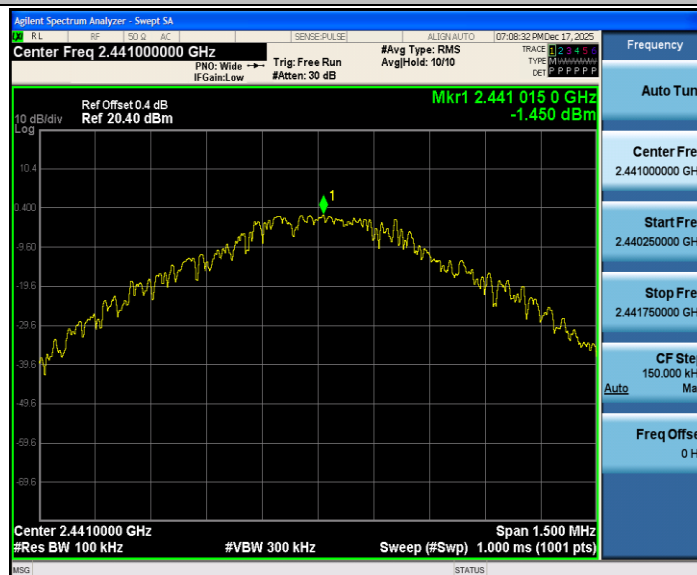
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-66.68	≤-20.89	PASS
			1000~26500	-0.89	-44.96	≤-20.89	PASS
		2441	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-62.61	≤-21.45	PASS
			1000~26500	-1.45	-44.01	≤-21.45	PASS
		2480	Reference	-1.49	-1.49	---	PASS
			30~1000	-1.49	-67.82	≤-21.49	PASS
			1000~26500	-1.49	-45.55	≤-21.49	PASS
2DH5	Ant1	2402	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-64.49	≤-24.77	PASS
			1000~26500	-4.77	-47.83	≤-24.77	PASS
		2441	Reference	-5.23	-5.23	---	PASS
			30~1000	-5.23	-68.26	≤-25.23	PASS
			1000~26500	-5.23	-48.95	≤-25.23	PASS
		2480	Reference	-5.88	-5.88	---	PASS
			30~1000	-5.88	-67.65	≤-25.88	PASS
			1000~26500	-5.88	-50.1	≤-25.88	PASS

Test Graphs

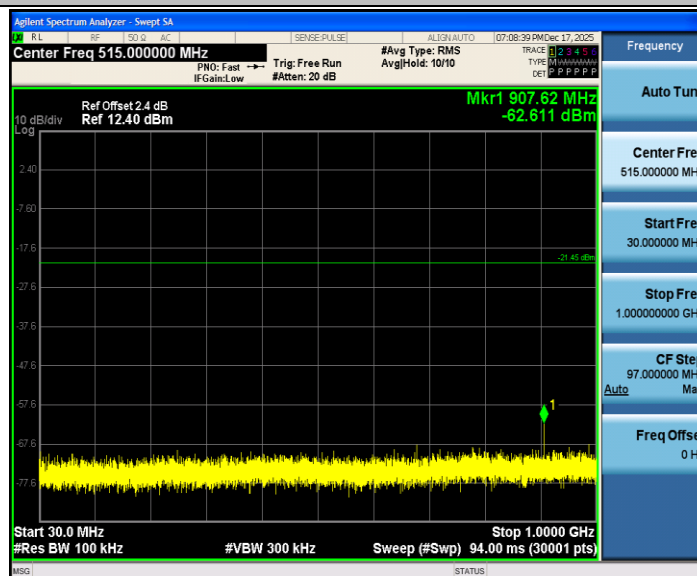




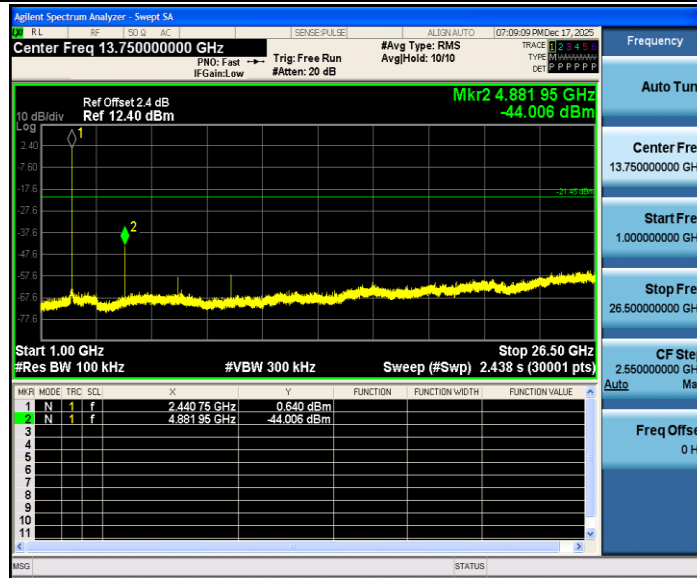
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



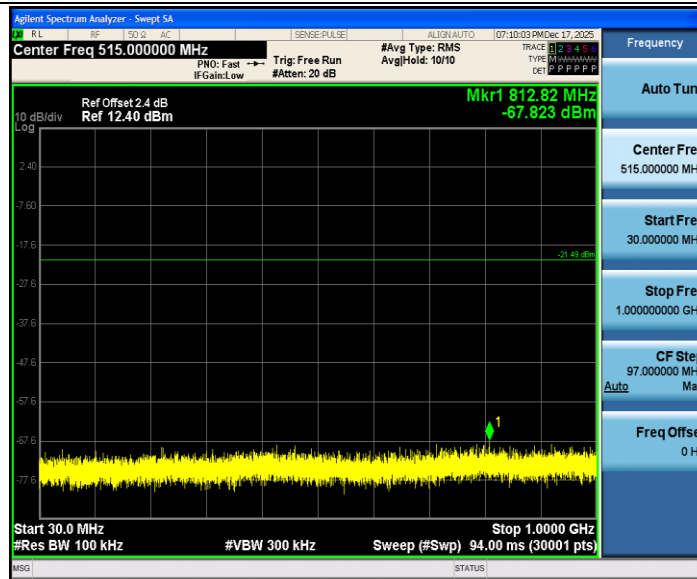
DH5_Ant1_2441_1000~26500



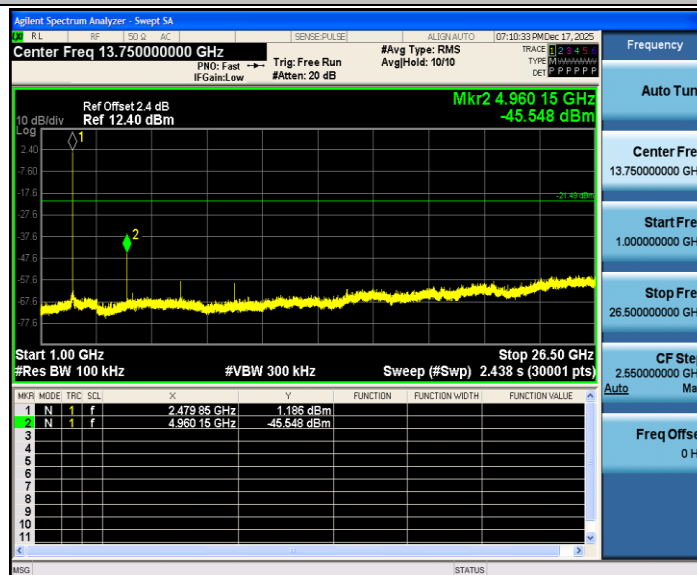
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



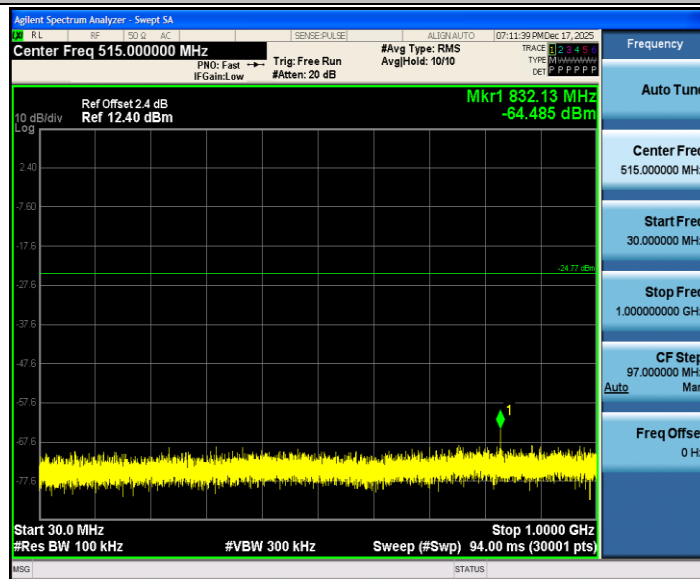
DH5_Ant1_2480_1000~26500



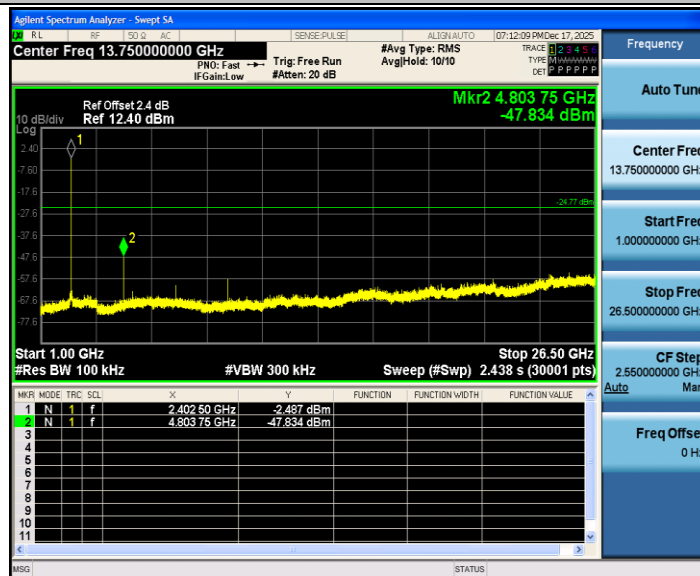
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



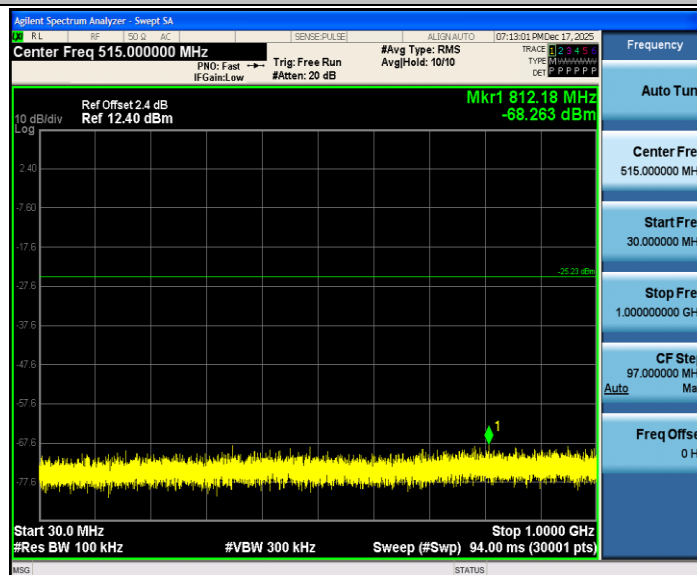
2DH5_Ant1_2402_1000~26500



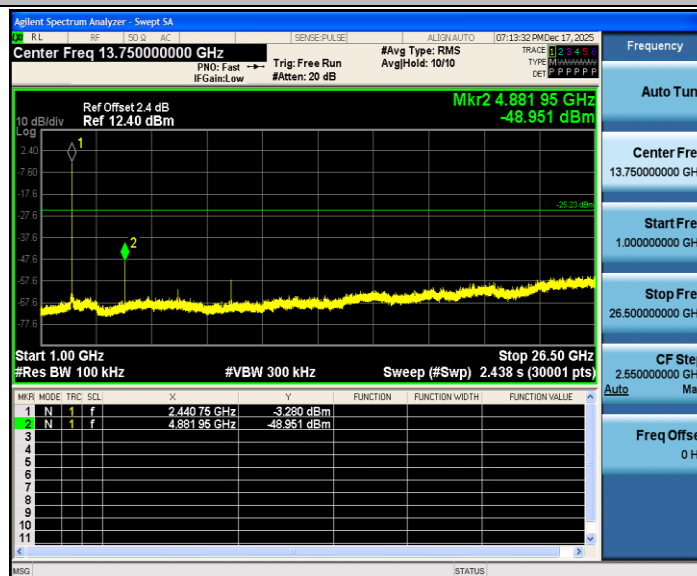
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



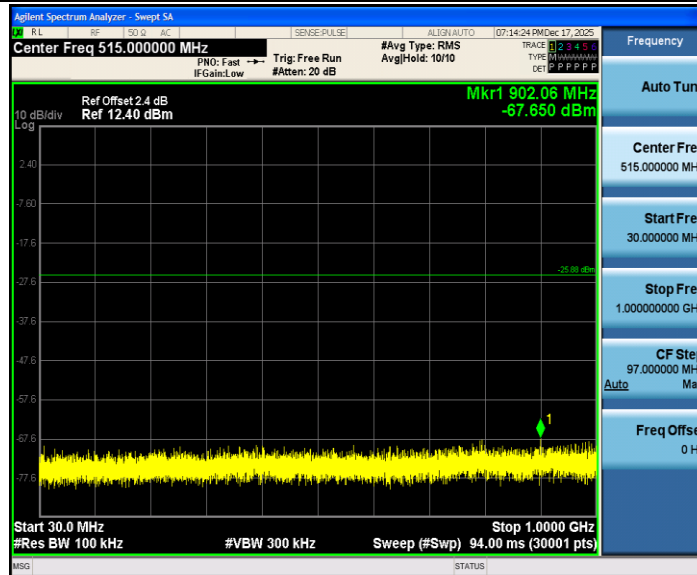
2DH5_Ant1_2441_1000~26500



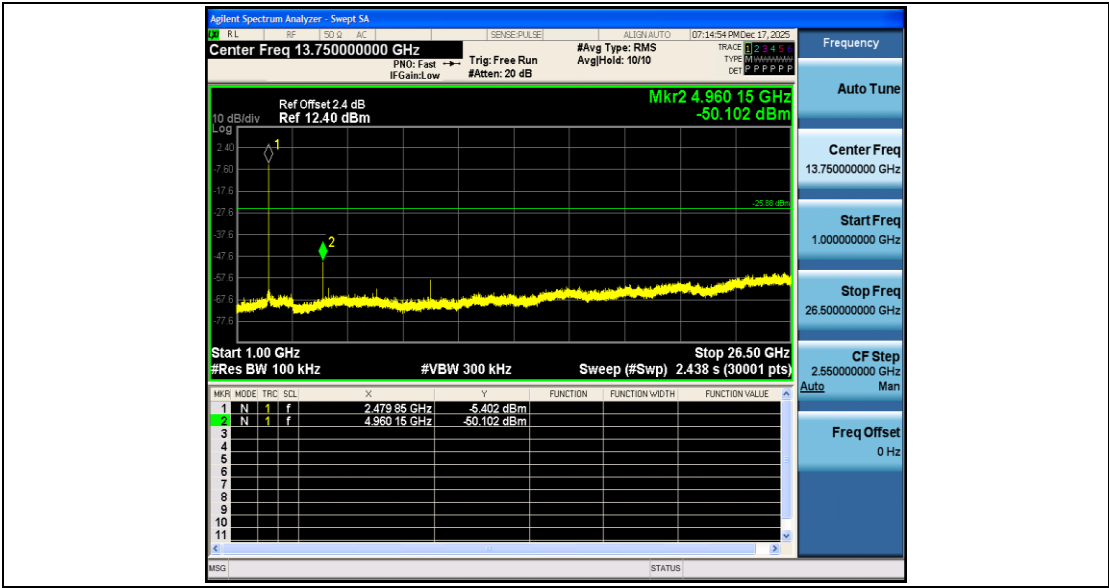
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

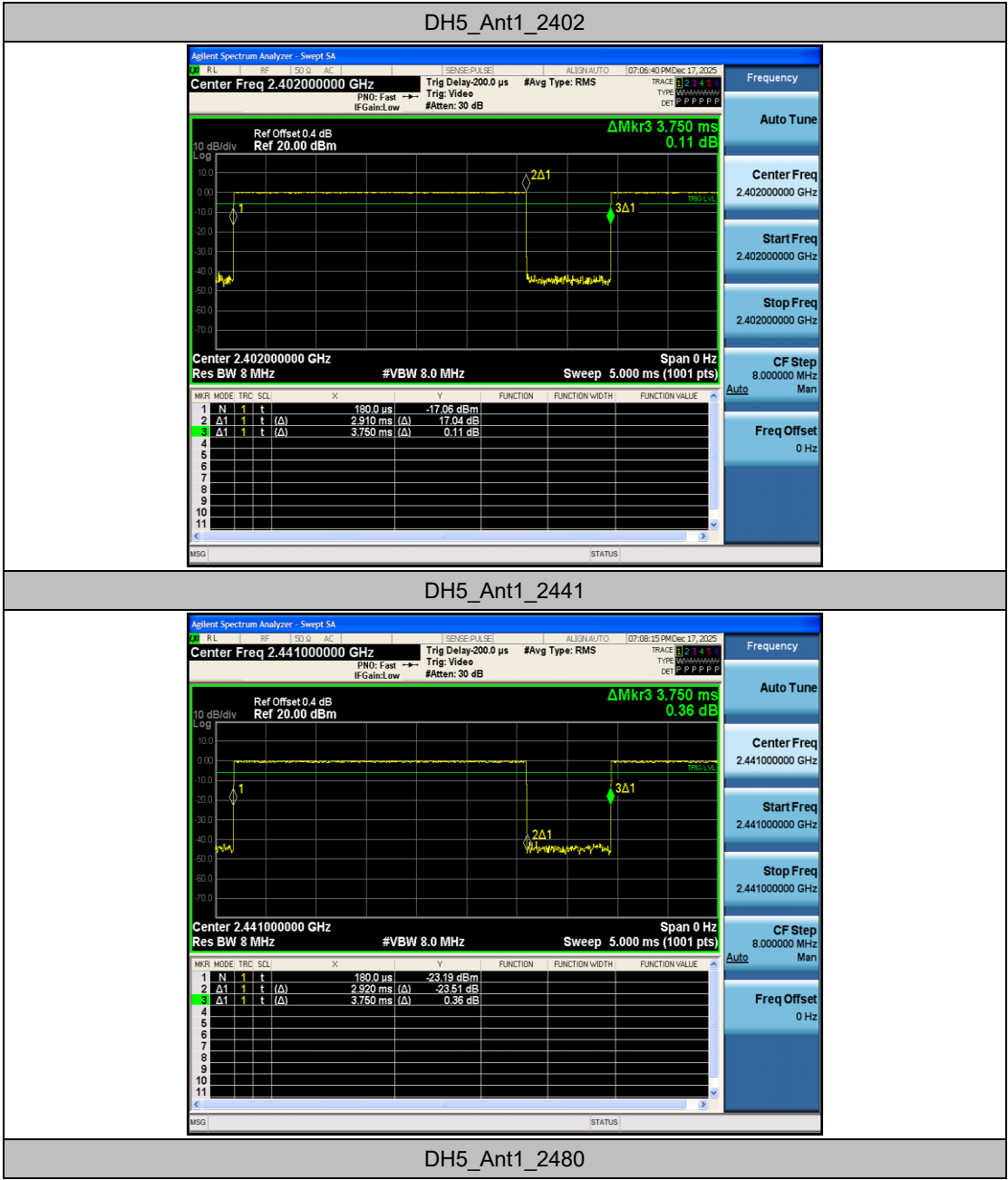


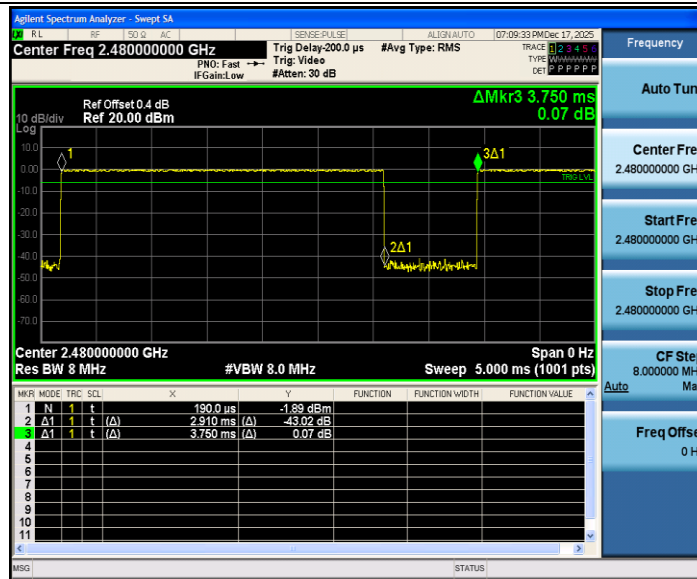
Appendix I: Duty Cycle

Test Result

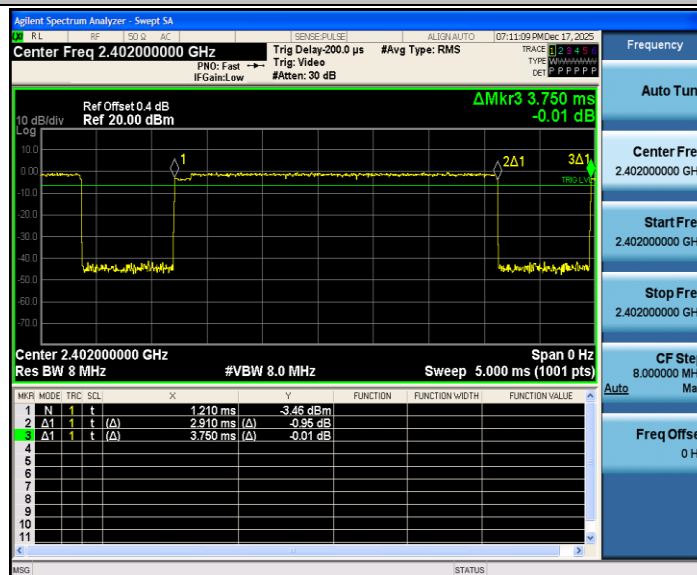
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---

Test Graphs

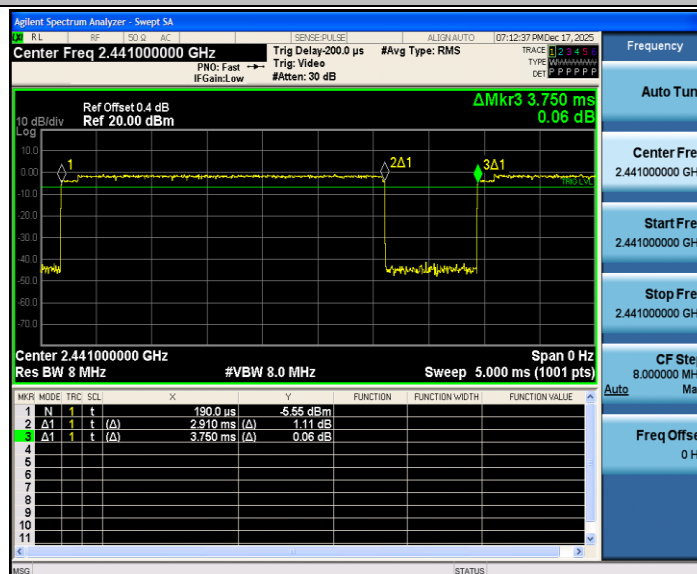




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

