

FCC Appendix RF Test Data for BT

FCC ID : 2A863-YW07

Company : ShenZhen YuYuanTong Technology Co.,Ltd

EUT : AI Wireless Earbuds

Model Number : YW07

Report No. : CTA25090900601

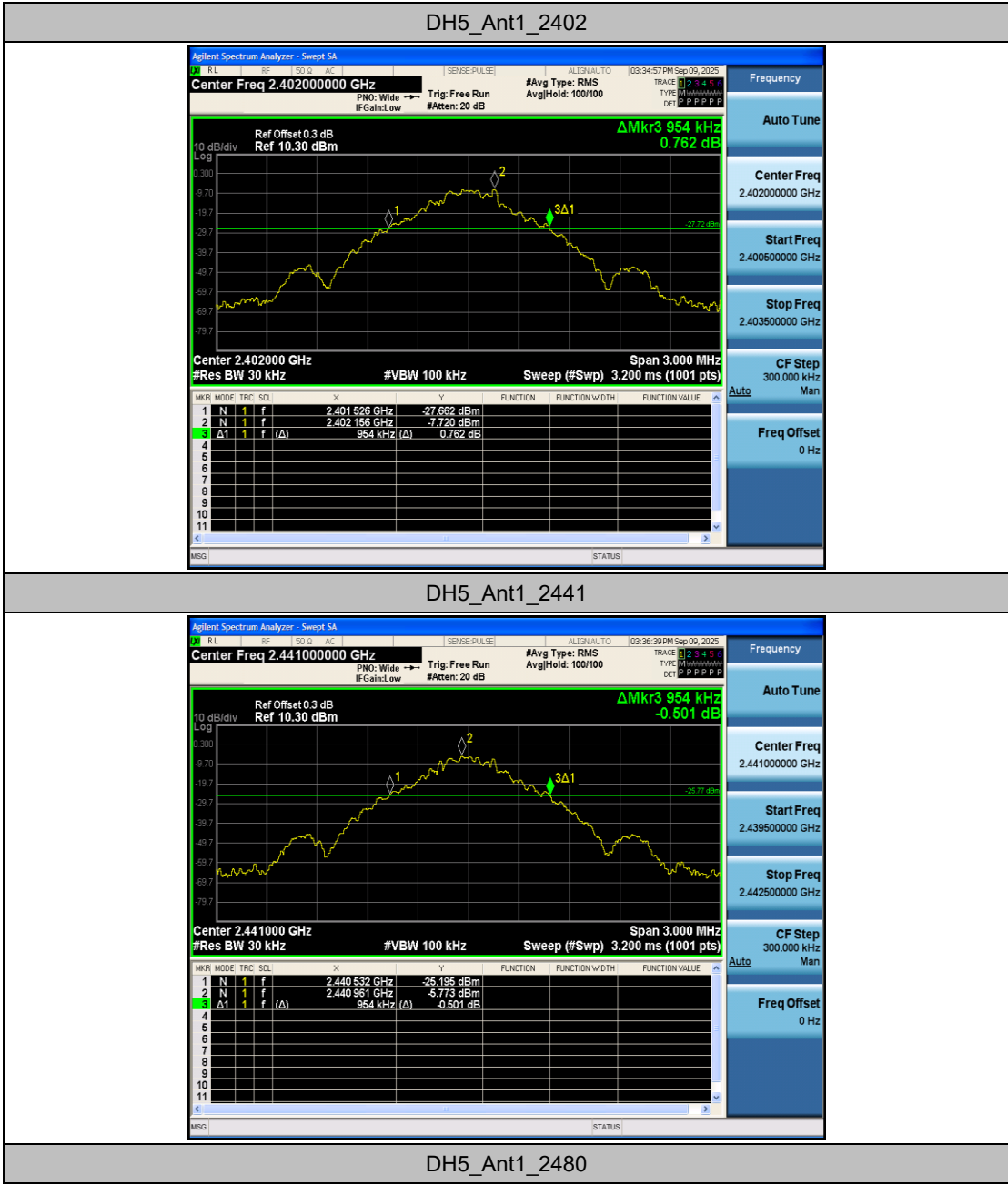
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.526	2402.480	---	---
		2441	0.954	2440.532	2441.486	---	---
		2480	0.954	2479.532	2480.486	---	---
2DH5	Ant1	2402	1.464	2401.274	2402.738	---	---
		2441	1.539	2440.229	2441.768	---	---
		2480	1.530	2479.229	2480.759	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

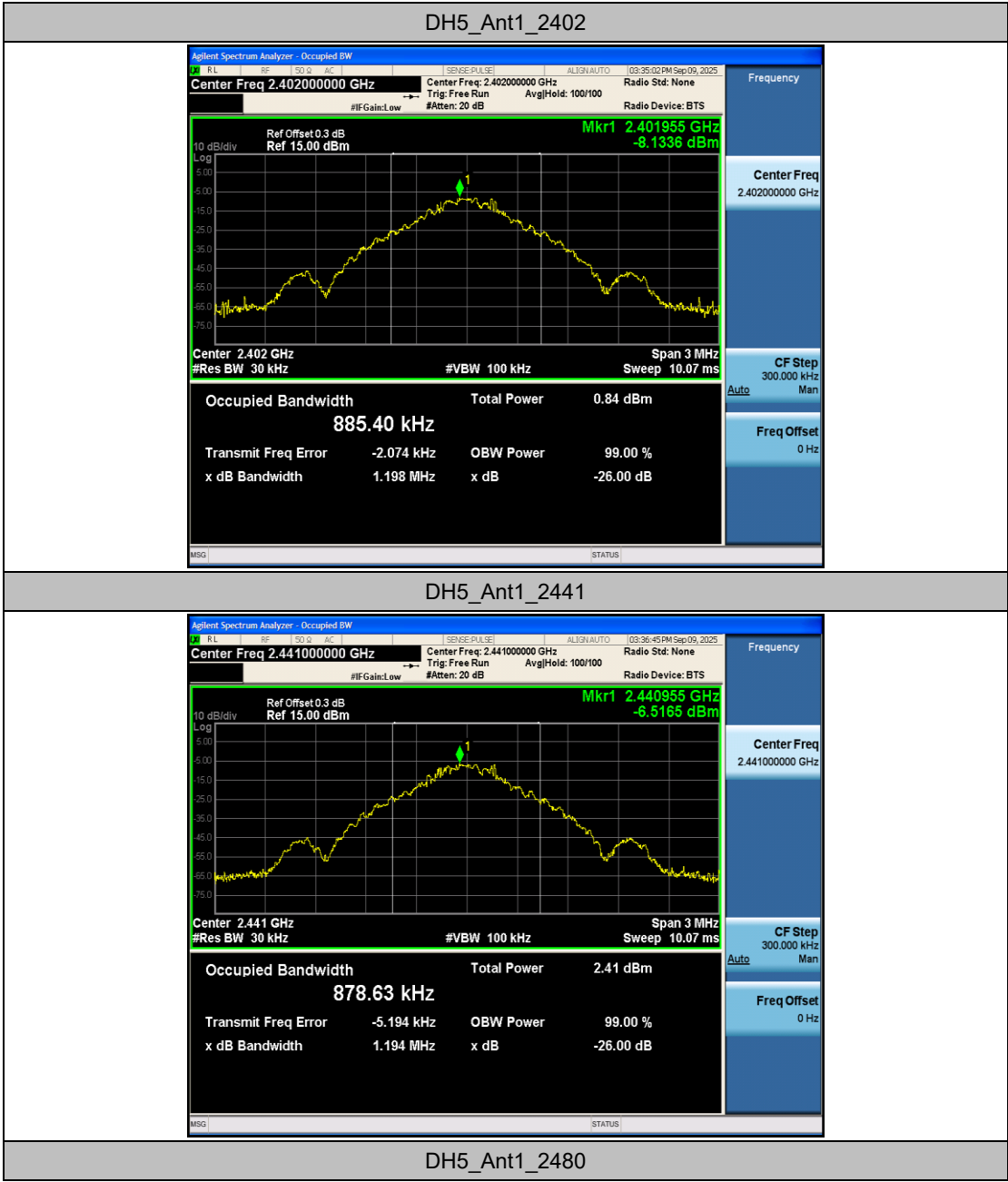


Appendix B: Occupied Channel Bandwidth

Test Result

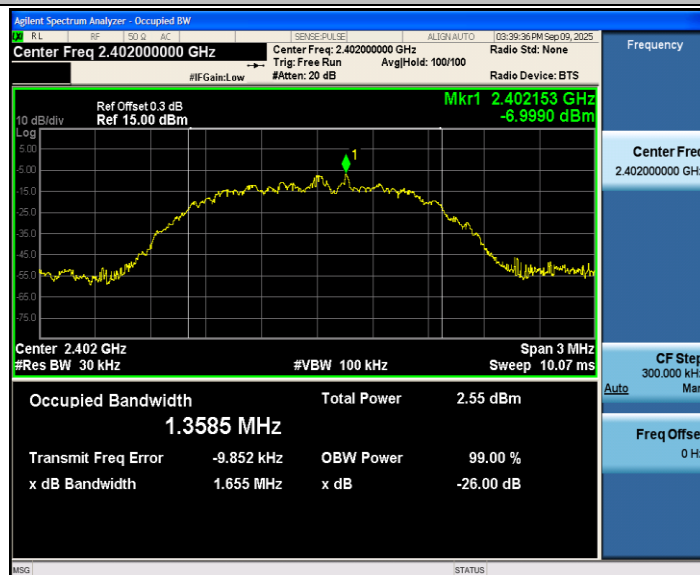
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88540	2401.5552	2402.4406	---	---
		2441	0.87863	2440.5555	2441.4341	---	---
		2480	0.87539	2479.5549	2480.4303	---	---
2DH5	Ant1	2402	1.3585	2401.3109	2402.6694	---	---
		2441	1.3657	2440.3079	2441.6736	---	---
		2480	1.3598	2479.3108	2480.6706	---	---

Test Graphs

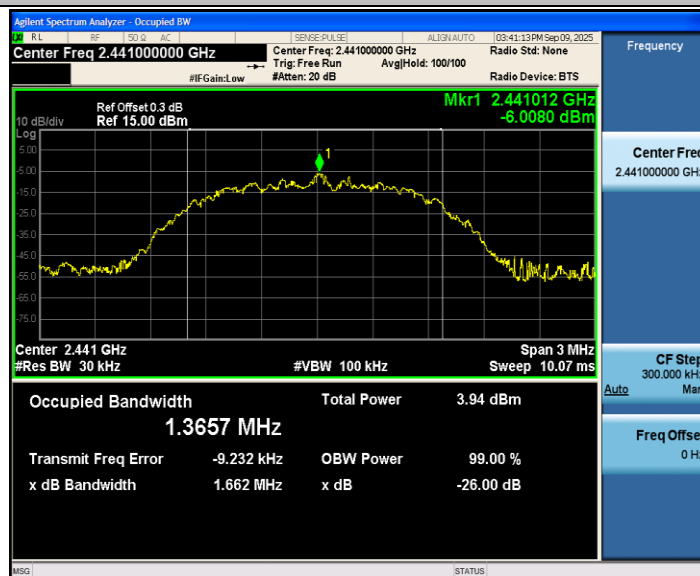




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Left:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-5.32	≤20.97	PASS
		2441	-3.72	≤20.97	PASS
		2480	-3.98	≤20.97	PASS
2DH5	Ant1	2402	-1.67	≤20.97	PASS
		2441	-0.17	≤20.97	PASS
		2480	-0.49	≤20.97	PASS

Right:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-4.89	≤20.97	PASS
		2441	-3.13	≤20.97	PASS
		2480	-3.42	≤20.97	PASS
2DH5	Ant1	2402	-1.45	≤20.97	PASS
		2441	0.46	≤20.97	PASS
		2480	0.42	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.292	≥ 0.954	PASS
2DH5	Ant1	Hop	1.2	≥ 1.026	PASS

Test Graphs

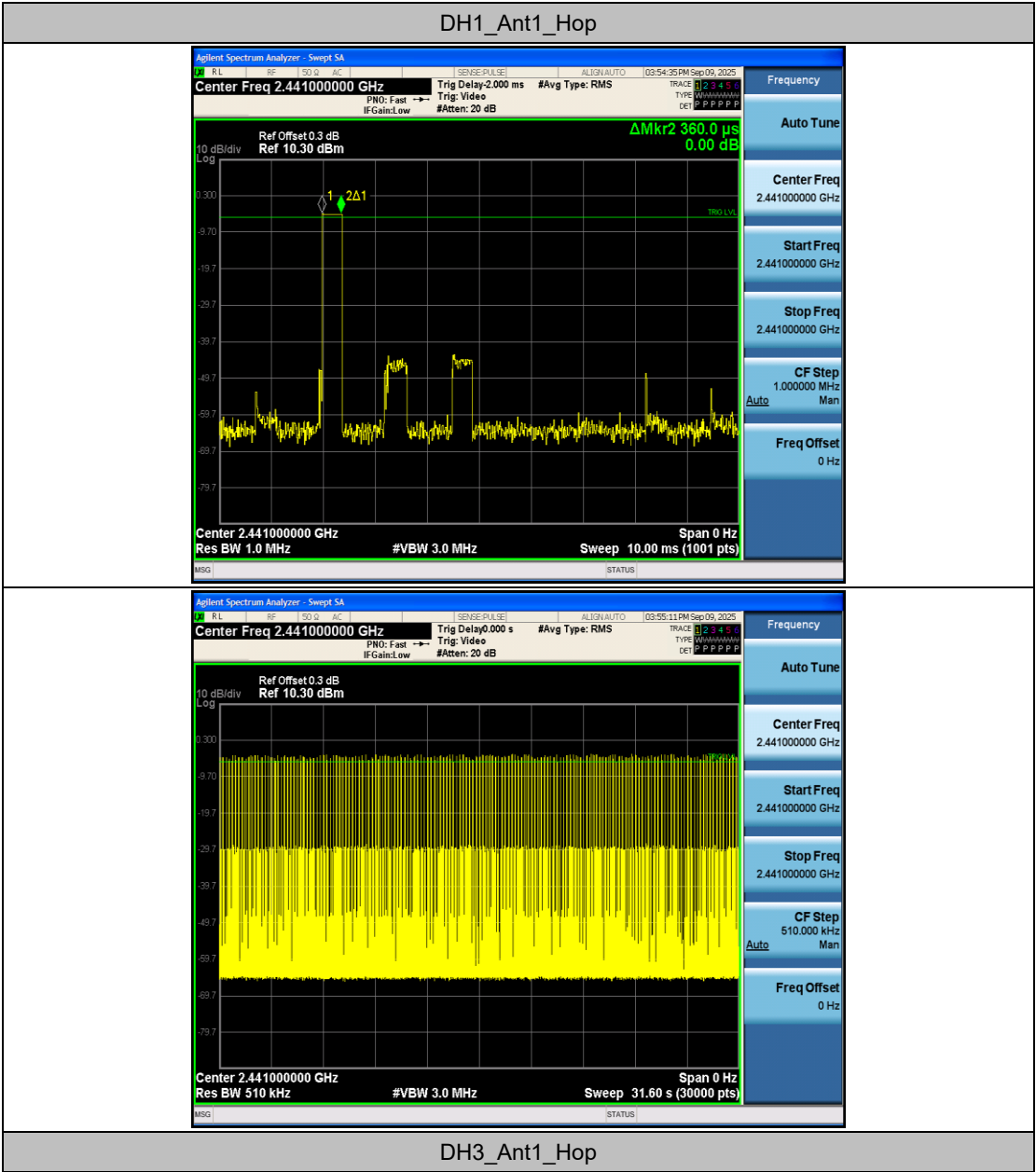


Appendix E: Time of occupancy

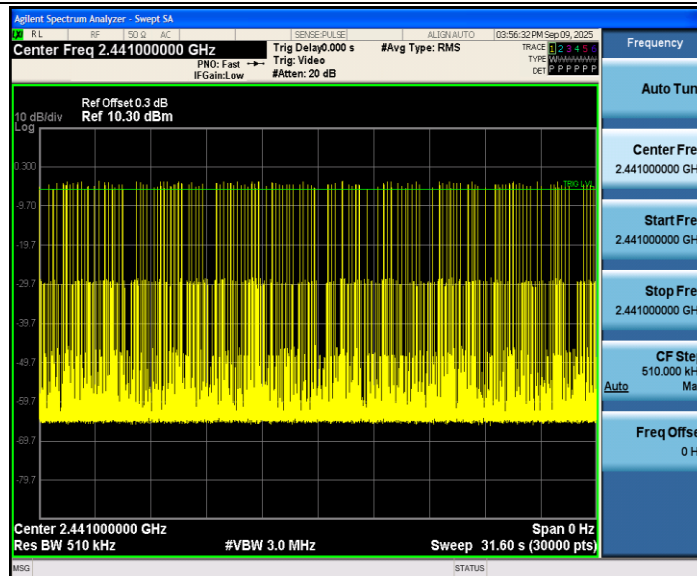
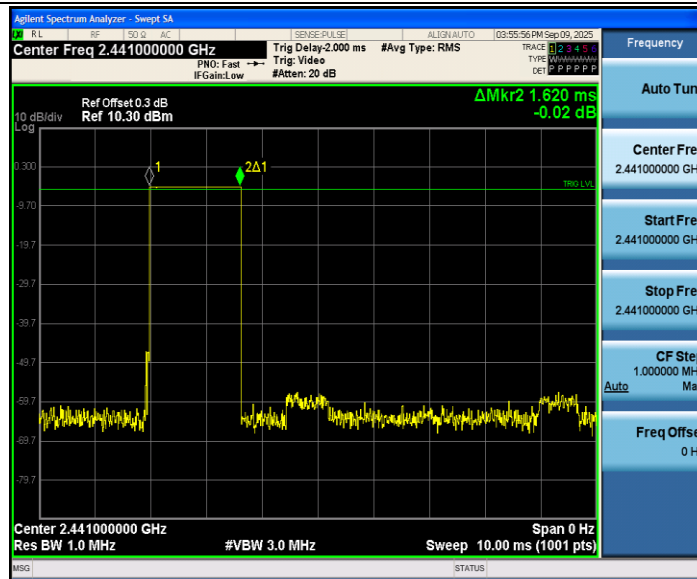
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	319	0.115	≤0.4	PASS
DH3	Ant1	Hop	1.620	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.860	105	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.370	319	0.118	≤0.4	PASS
2DH3	Ant1	Hop	1.620	156	0.253	≤0.4	PASS
2DH5	Ant1	Hop	2.870	107	0.307	≤0.4	PASS

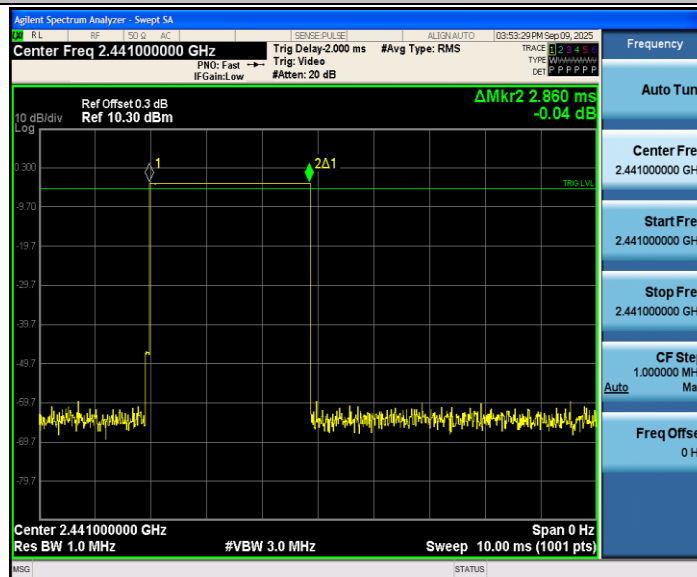
Test Graphs

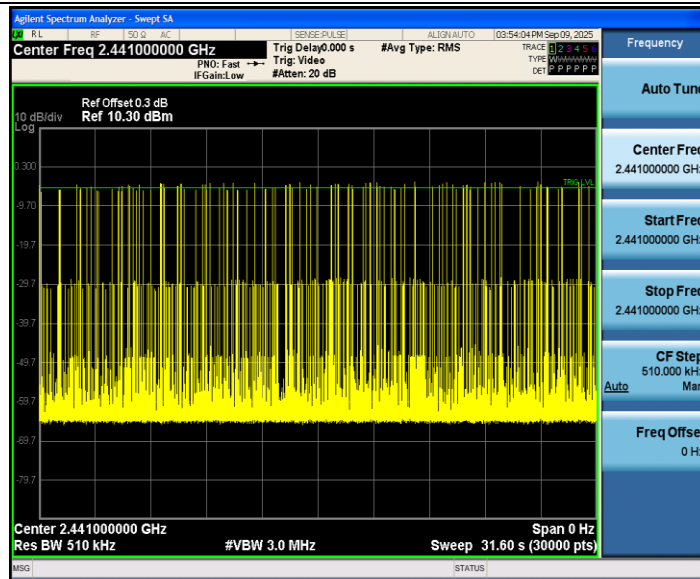


DH3_Ant1_Hop

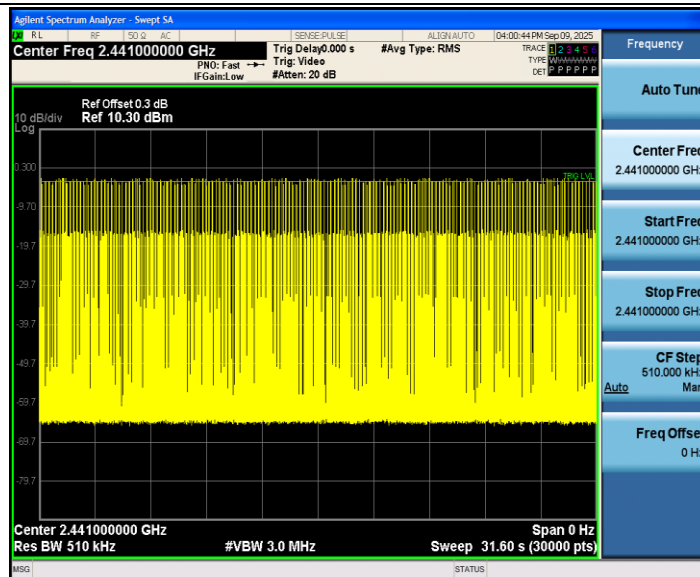
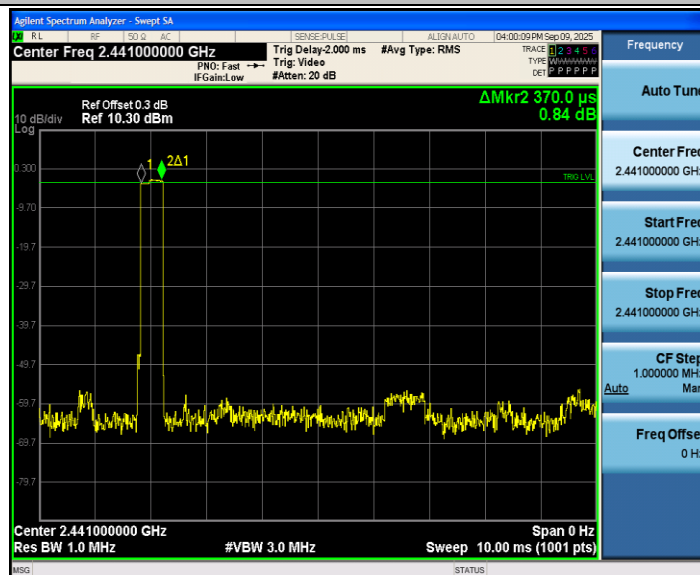


DH5_Ant1_Hop

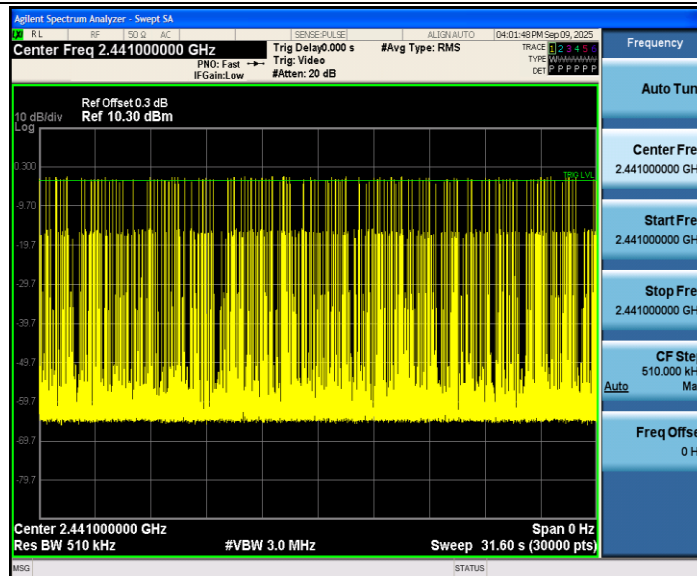
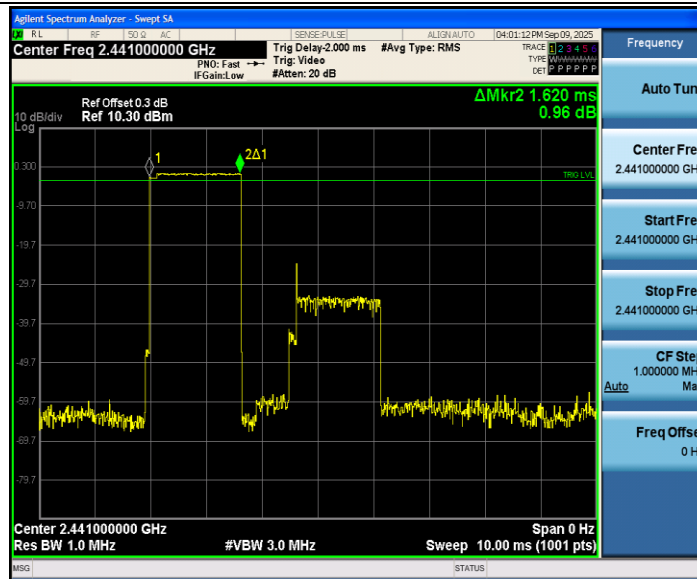




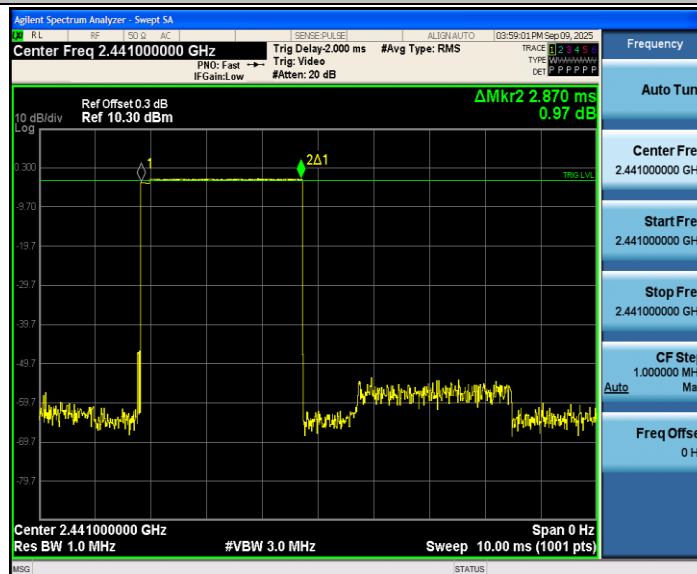
2DH1_Ant1_Hop

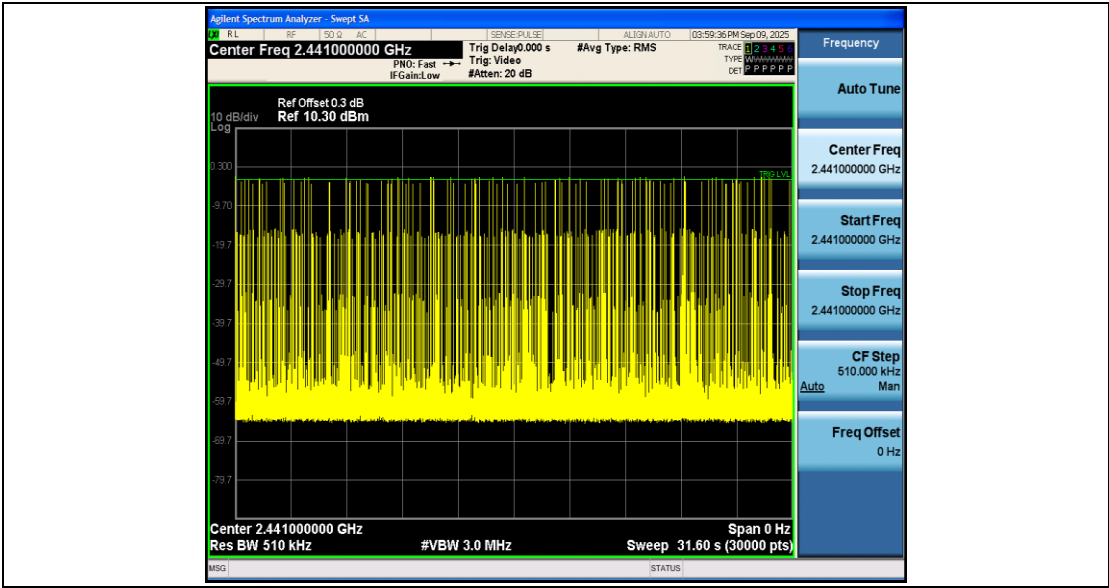


2DH3_Ant1_Hop



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

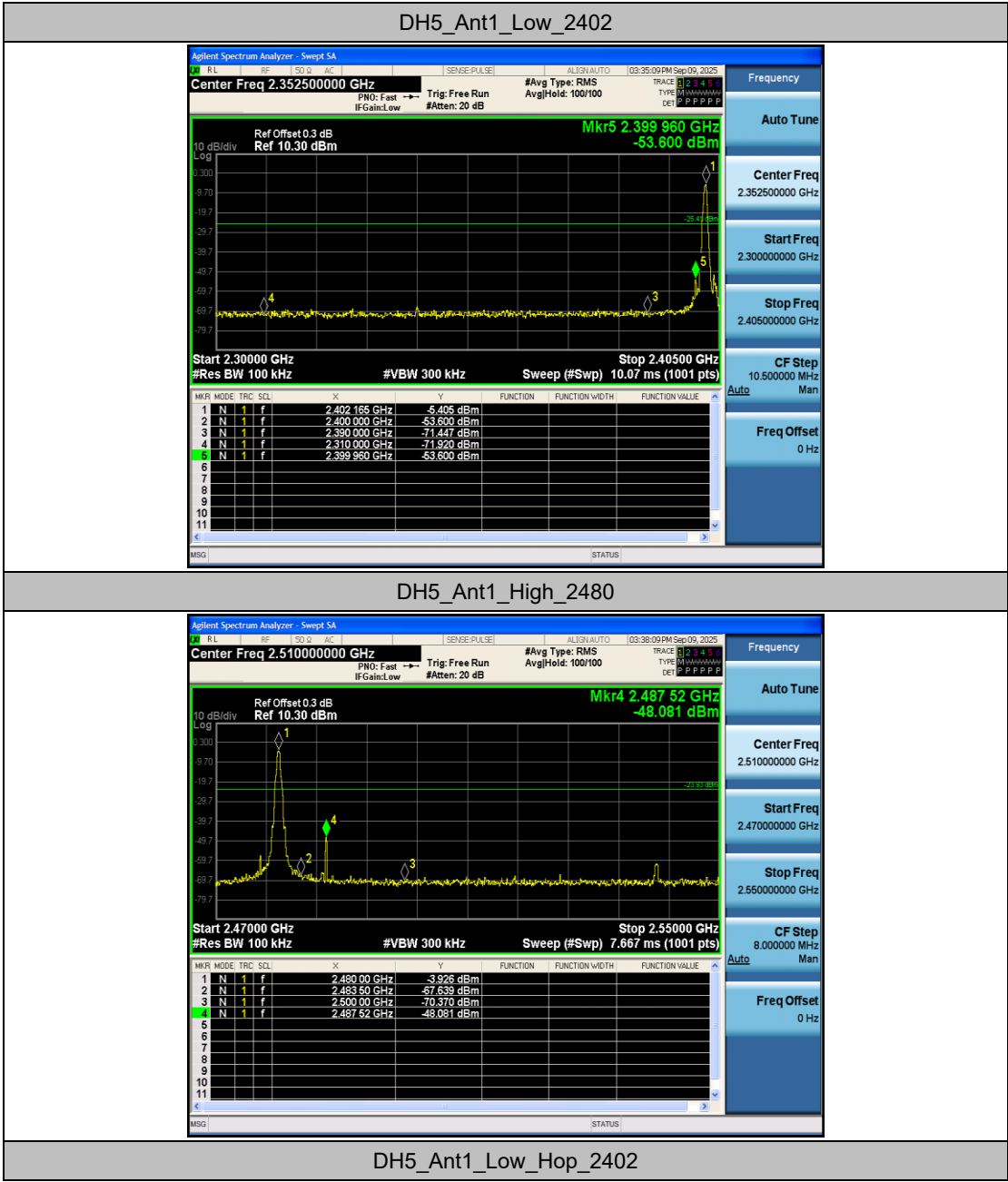


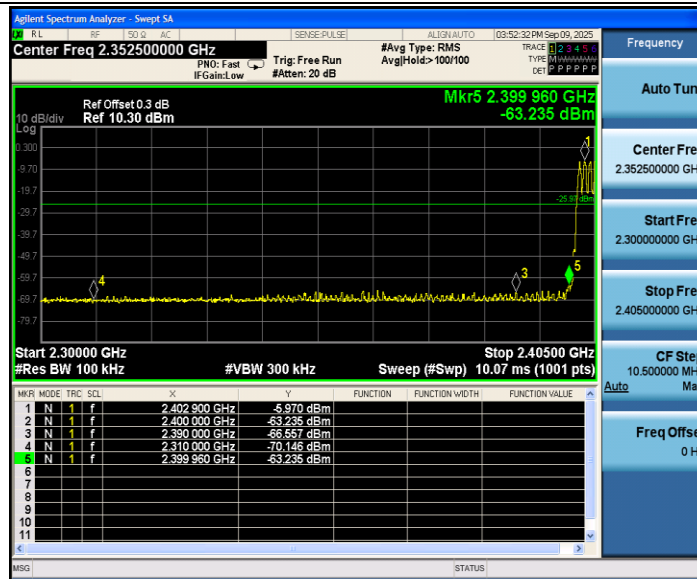
Appendix G: Band edge measurements

Test Result

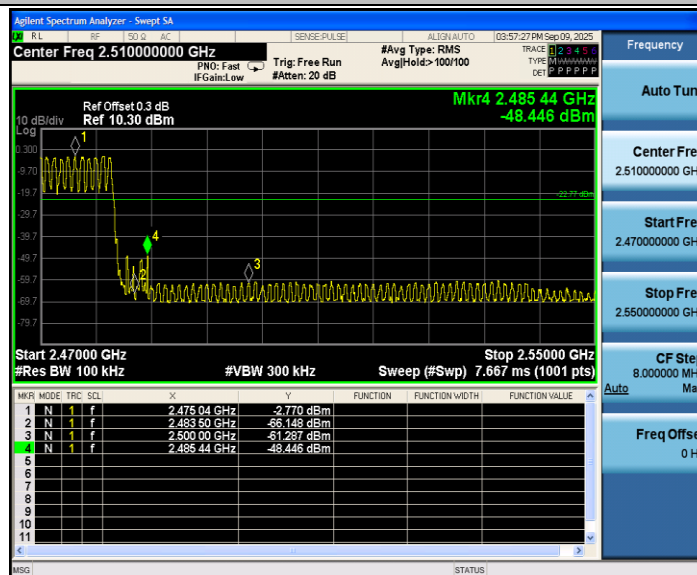
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-5.41	-53.6	≤-25.41	PASS
		High	2480	-3.93	-48.08	≤-23.93	PASS
		Low	Hop_2402	-5.97	-63.24	≤-25.97	PASS
		High	Hop_2480	-2.77	-48.45	≤-22.77	PASS
2DH5	Ant1	Low	2402	-4.54	-56.11	≤-24.54	PASS
		High	2480	-2.97	-60.89	≤-22.97	PASS
		Low	Hop_2402	-6.38	-52.96	≤-26.38	PASS
		High	Hop_2480	-1.61	-59.93	≤-21.61	PASS

Test Graphs

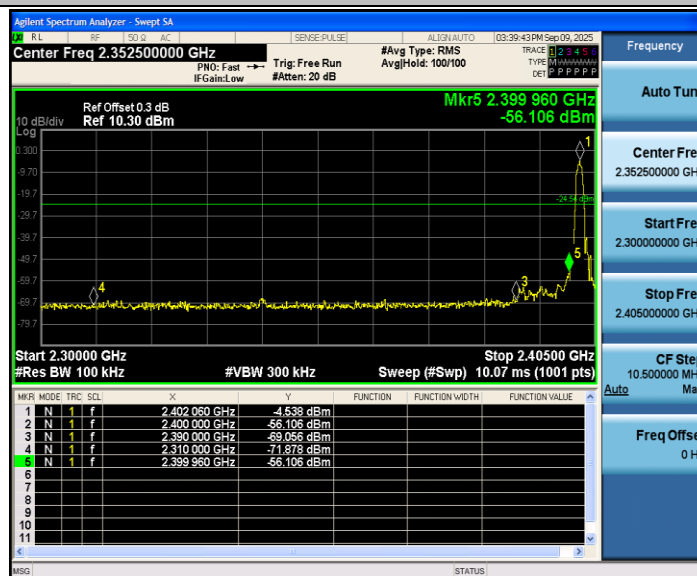




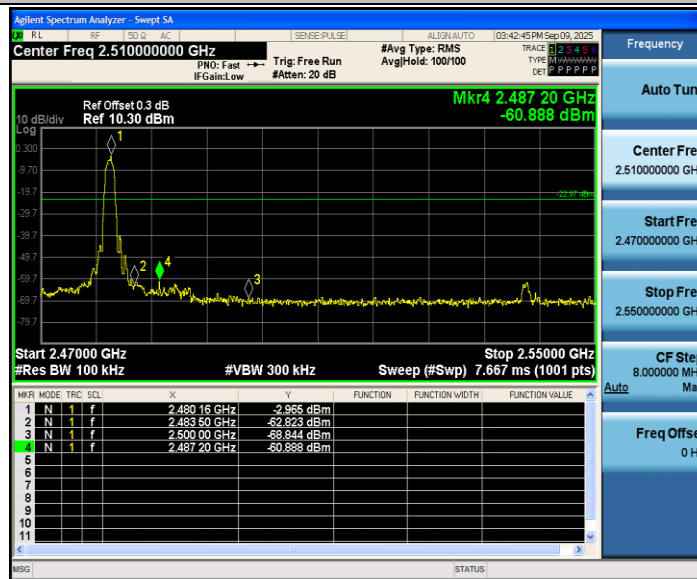
DH5_Ant1_High_Hop_2480



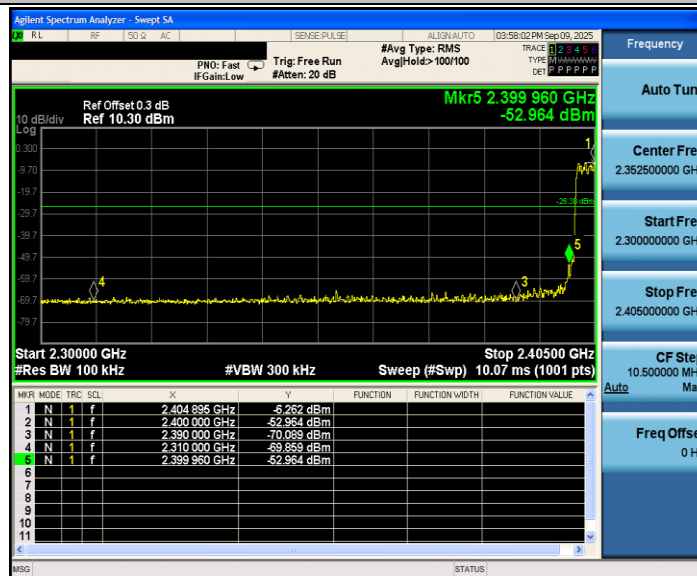
2DH5_Ant1_Low_2402



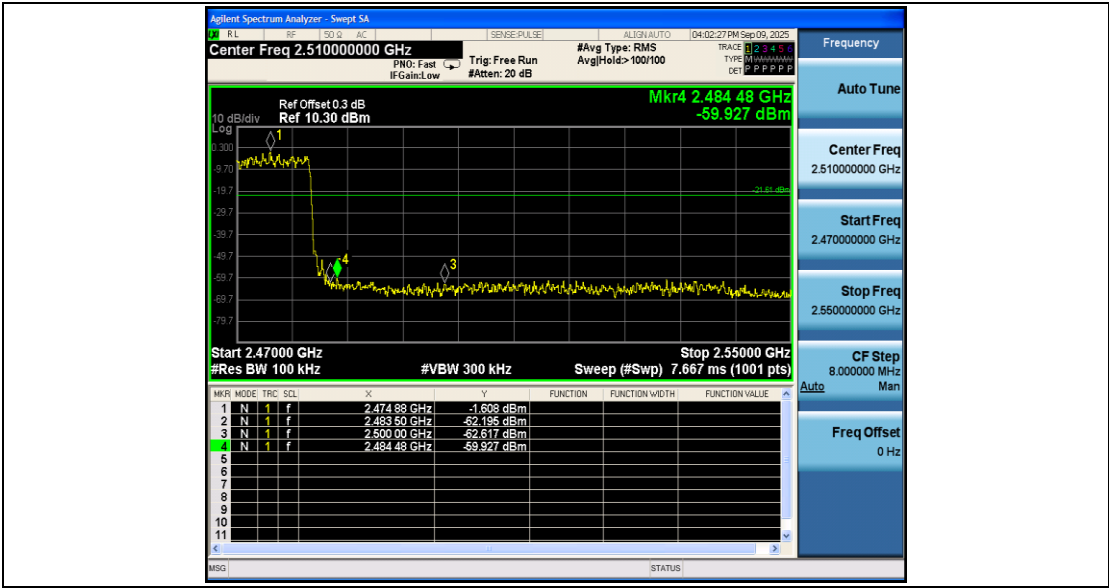
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

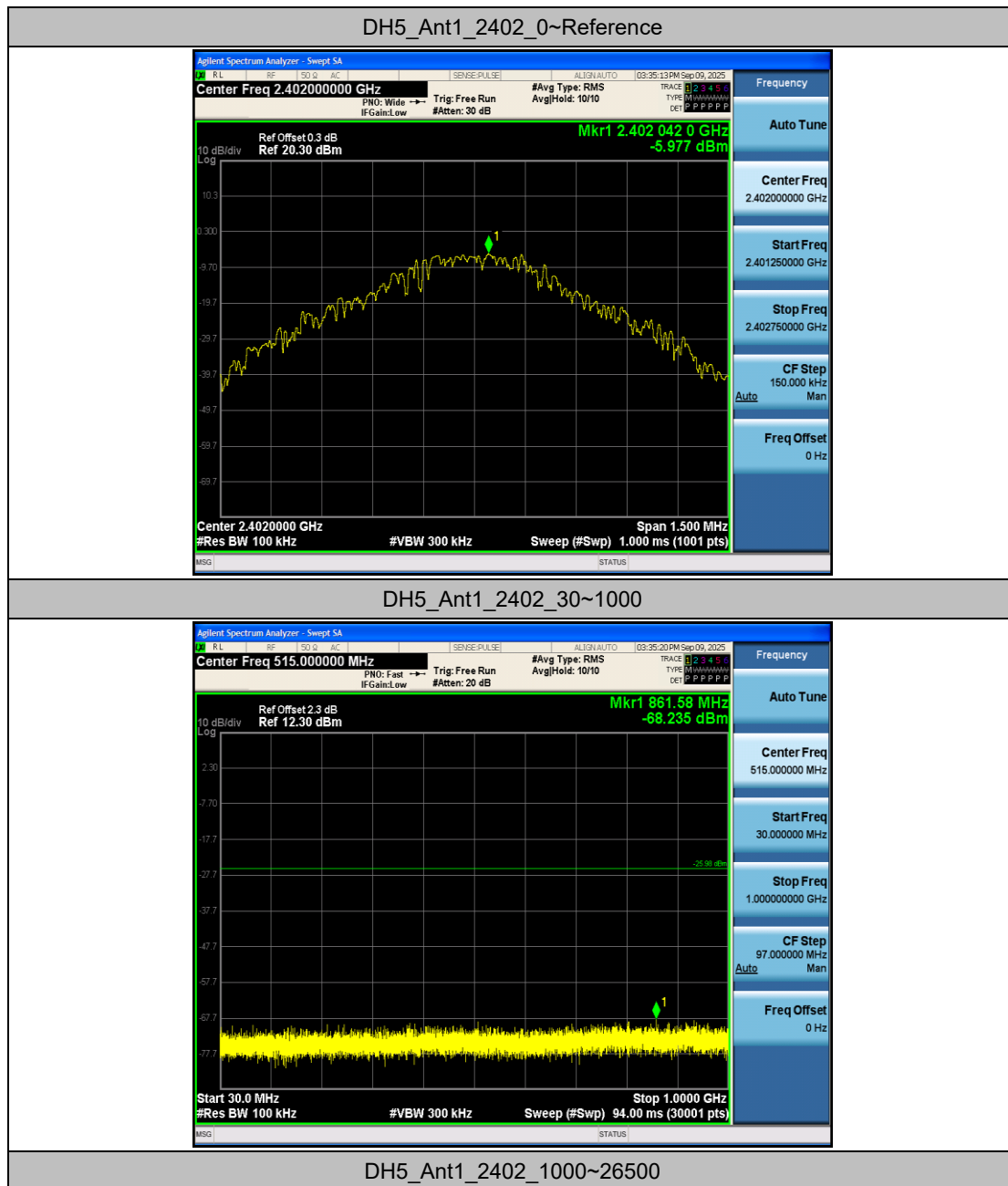


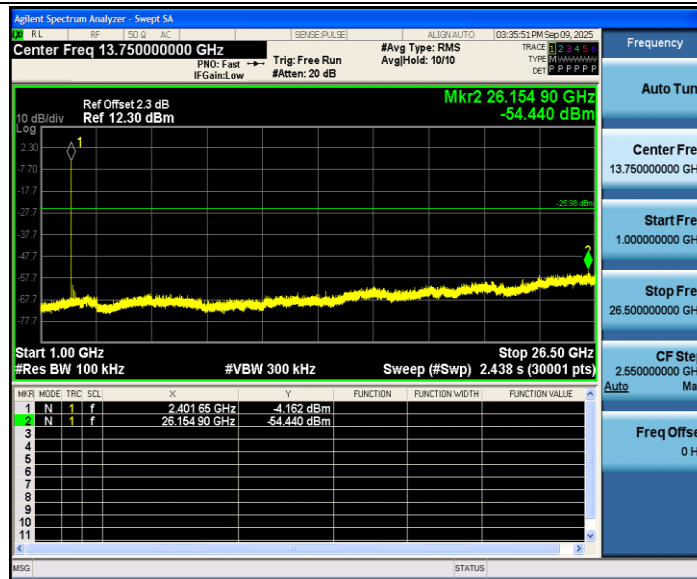
Appendix I: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-5.98	-5.98	---	PASS
			30~1000	-5.98	-68.24	≤-25.98	PASS
			1000~26500	-5.98	-54.44	≤-25.98	PASS
		2441	Reference	-4.44	-4.44	---	PASS
			30~1000	-4.44	-68.16	≤-24.44	PASS
			1000~26500	-4.44	-55.54	≤-24.44	PASS
		2480	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-67.1	≤-24.38	PASS
			1000~26500	-4.38	-54.99	≤-24.38	PASS
2DH5	Ant1	2402	Reference	-6.78	-6.78	---	PASS
			30~1000	-6.78	-67.96	≤-26.78	PASS
			1000~26500	-6.78	-53.66	≤-26.78	PASS
		2441	Reference	-3.72	-3.72	---	PASS
			30~1000	-3.72	-68	≤-23.72	PASS
			1000~26500	-3.72	-54.32	≤-23.72	PASS
		2480	Reference	-5.93	-5.93	---	PASS
			30~1000	-5.93	-67.83	≤-25.93	PASS
			1000~26500	-5.93	-54.78	≤-25.93	PASS

Test Graphs

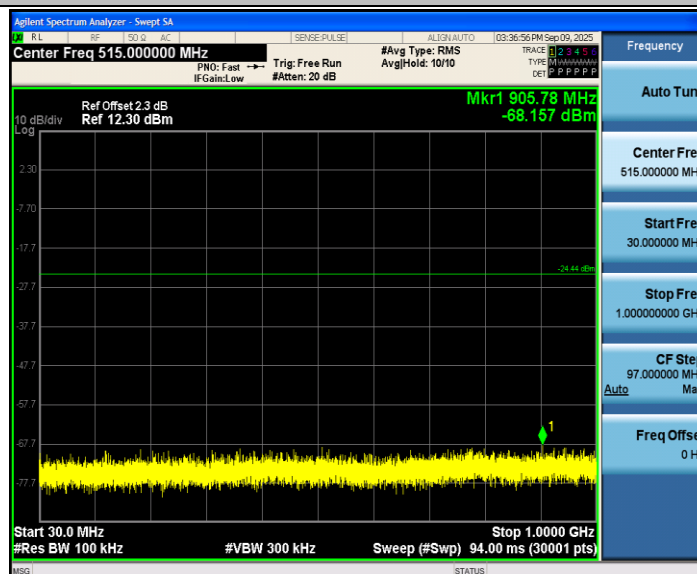




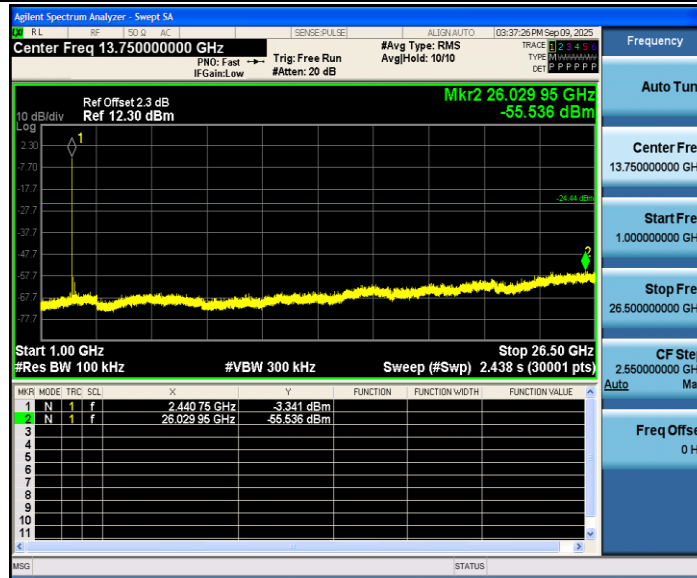
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



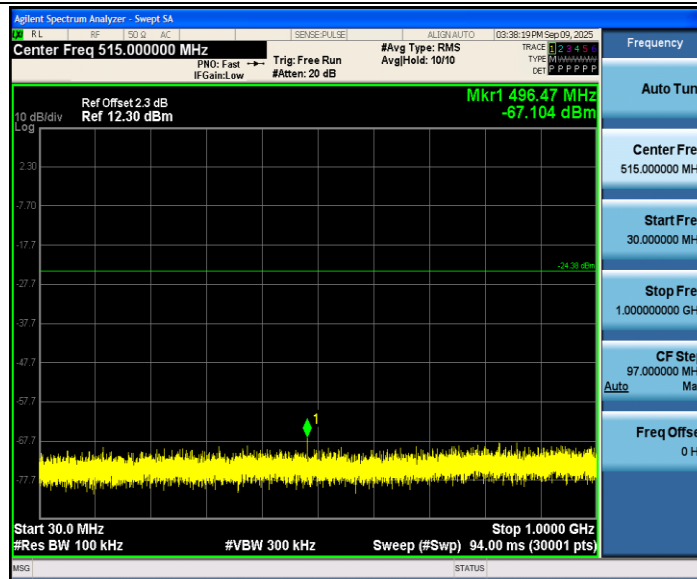
DH5_Ant1_2441_1000~26500



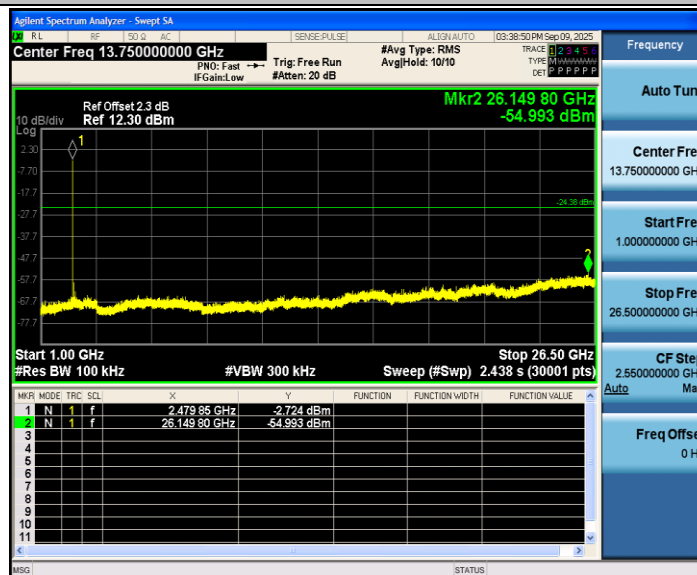
DH5_Ant1_2480_0~Reference



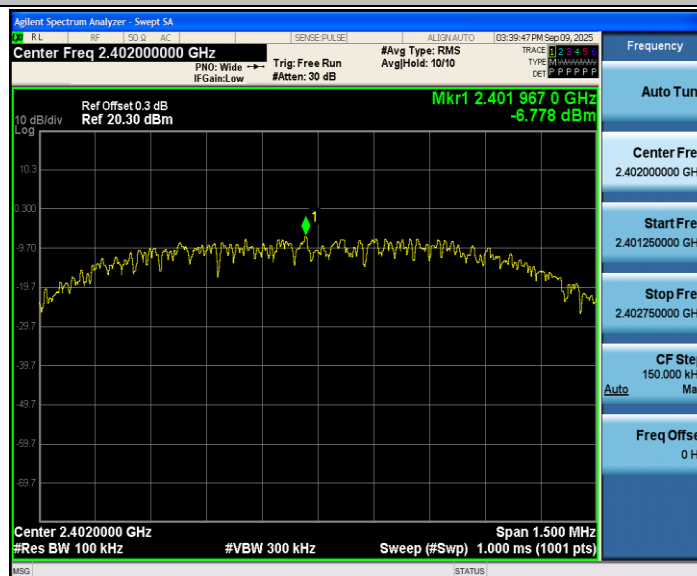
DH5_Ant1_2480_30~1000



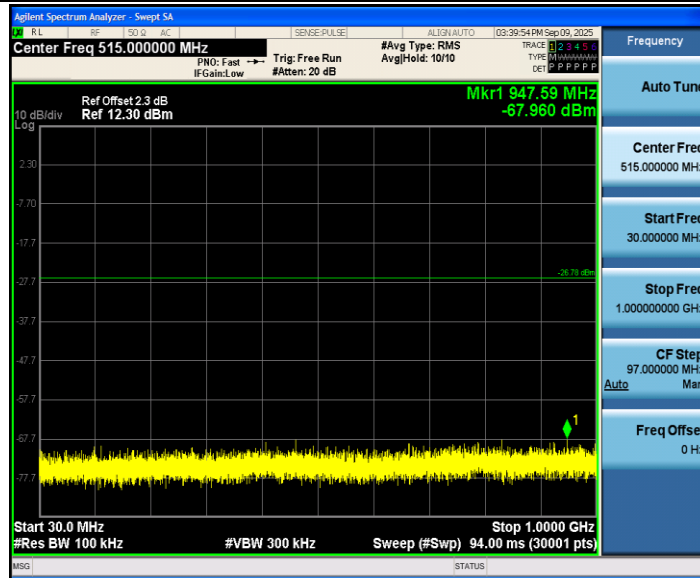
DH5_Ant1_2480_1000~26500



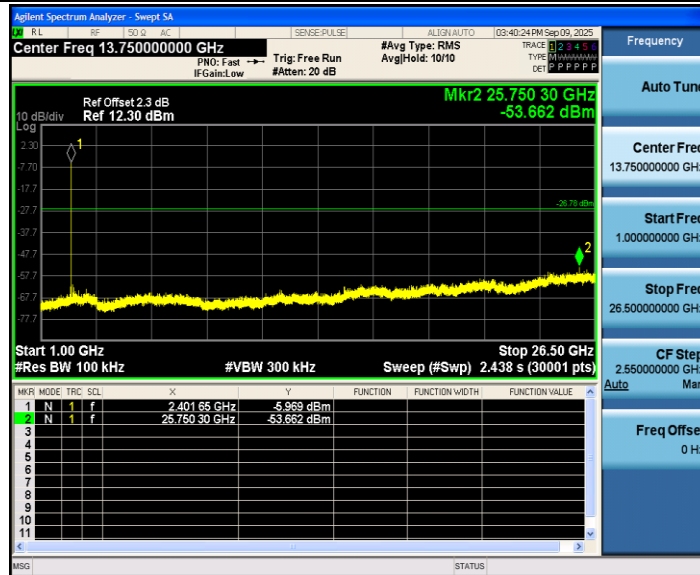
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



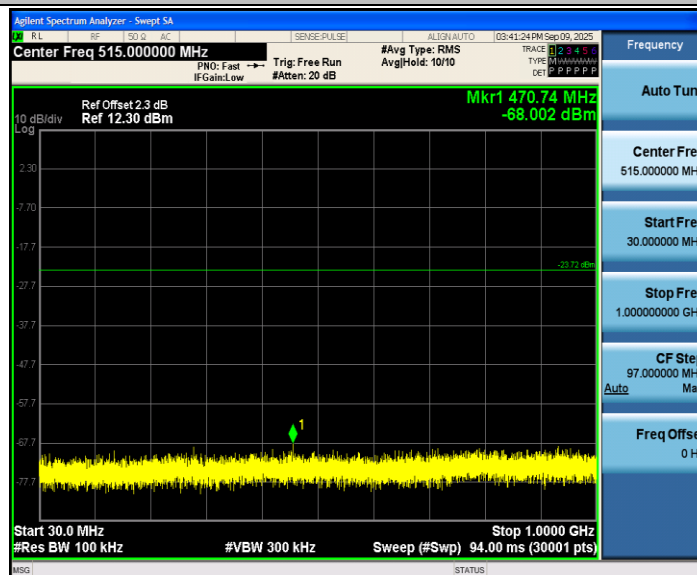
2DH5_Ant1_2402_1000~26500



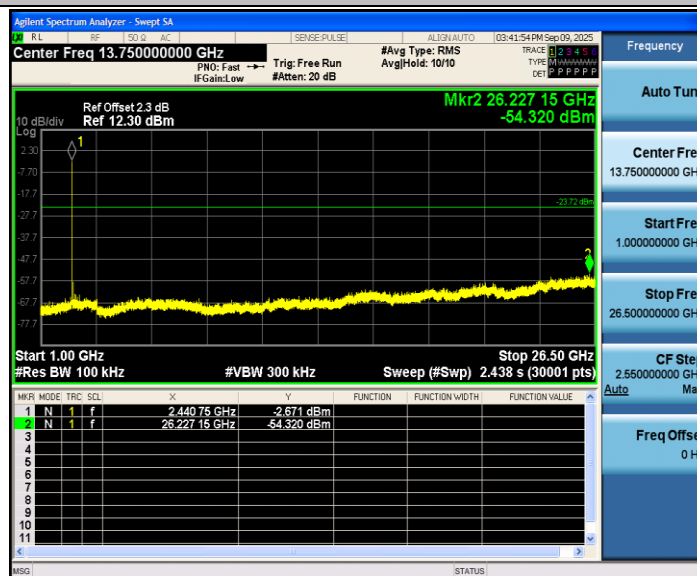
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



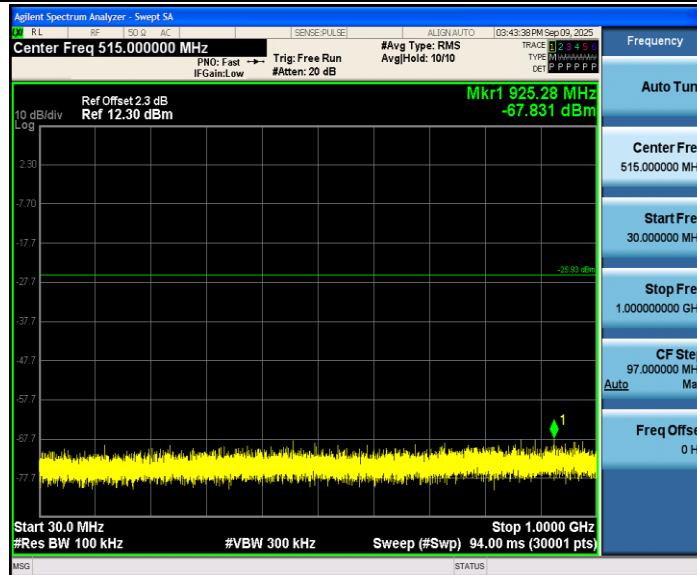
2DH5_Ant1_2441_1000~26500



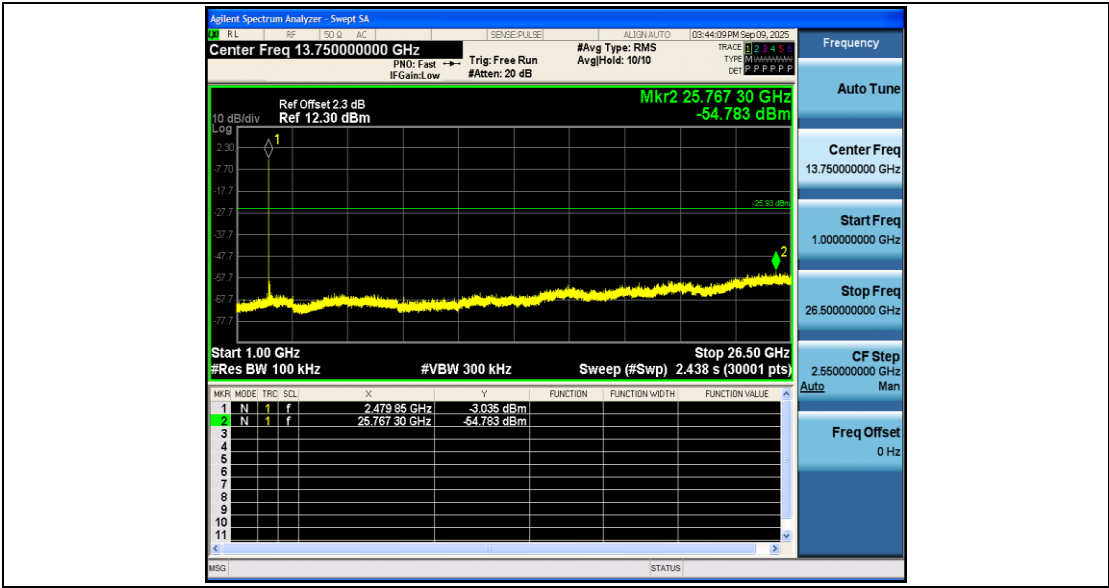
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

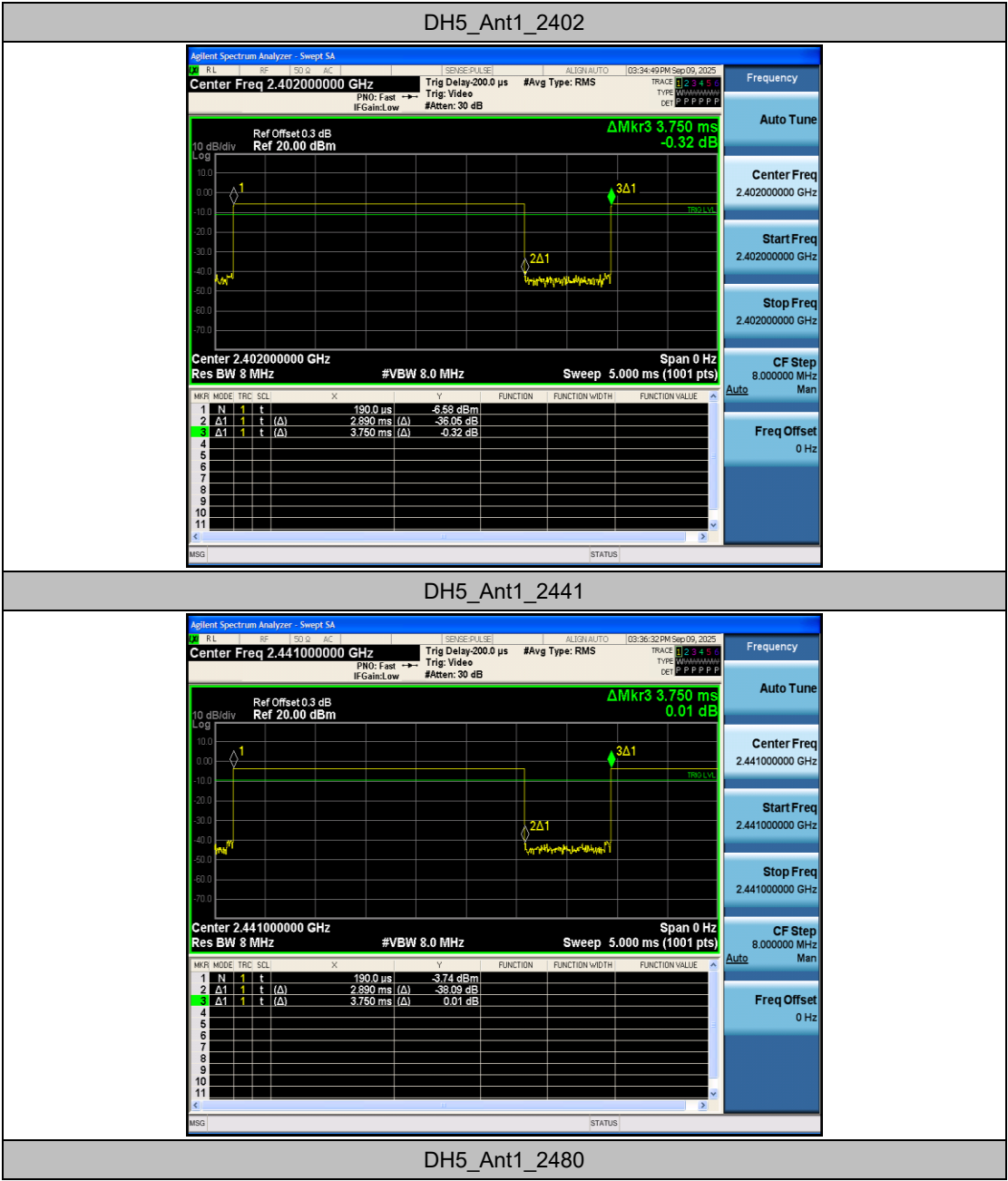


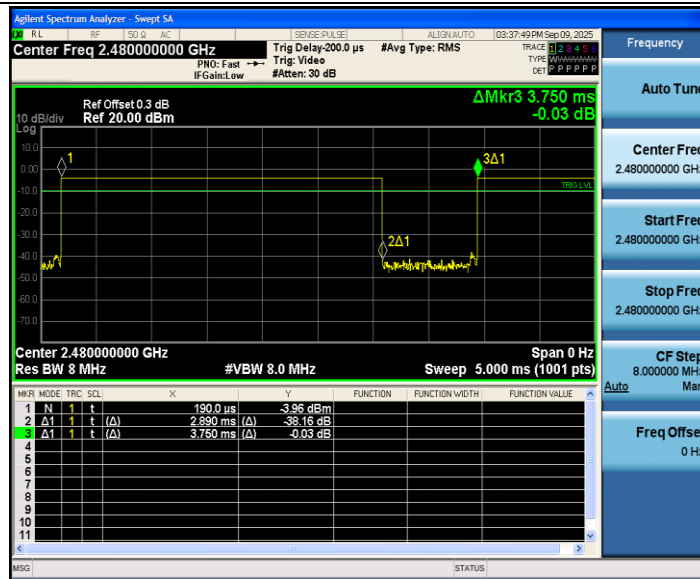
Appendix J: Duty Cycle

Test Result

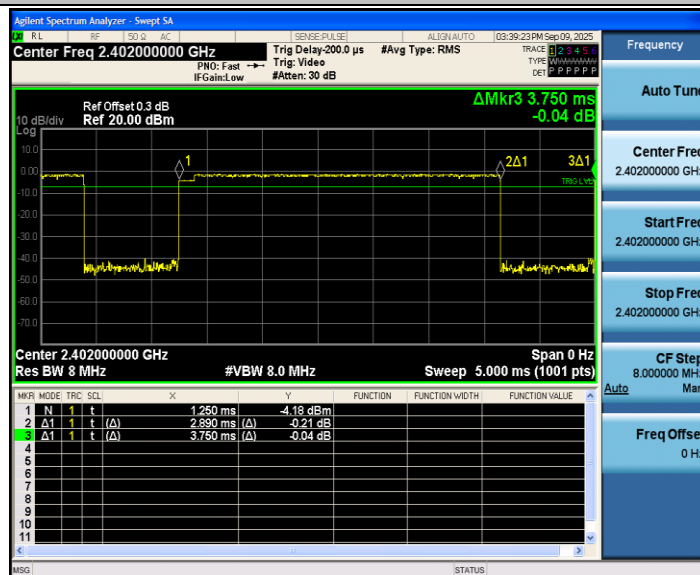
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---
2DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---

Test Graphs

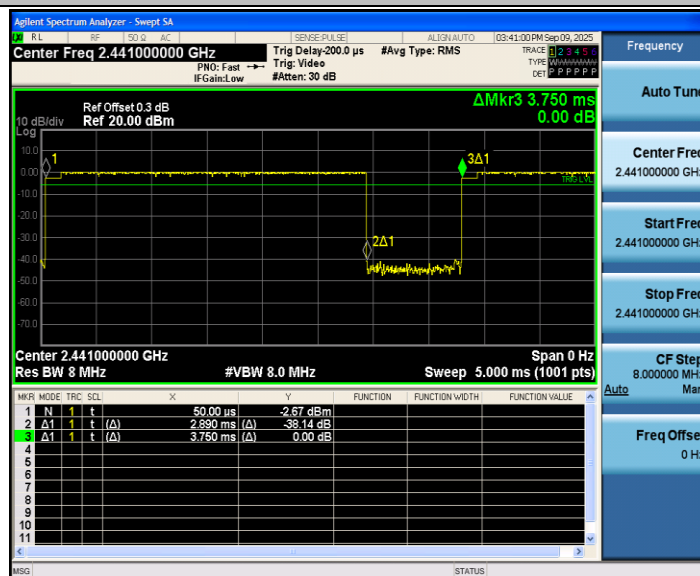




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

