

FCC Appendix RF Test Data

FCC ID : 2BPVC-V10

Company: : Shenzhen Haling Technology Co., LTD

EUT : Bluetooth headphones

Model Number : V10

Report No. : CTA25052100501

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	0.945	2401.550	2402.495	---	---
		2441	0.957	2440.544	2441.501	---	---
		2480	0.951	2479.544	2480.495	---	---
2DH5	Ant1	2402	1.278	2401.379	2402.657	---	---
		2441	1.278	2440.382	2441.660	---	---
		2480	1.281	2479.379	2480.660	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

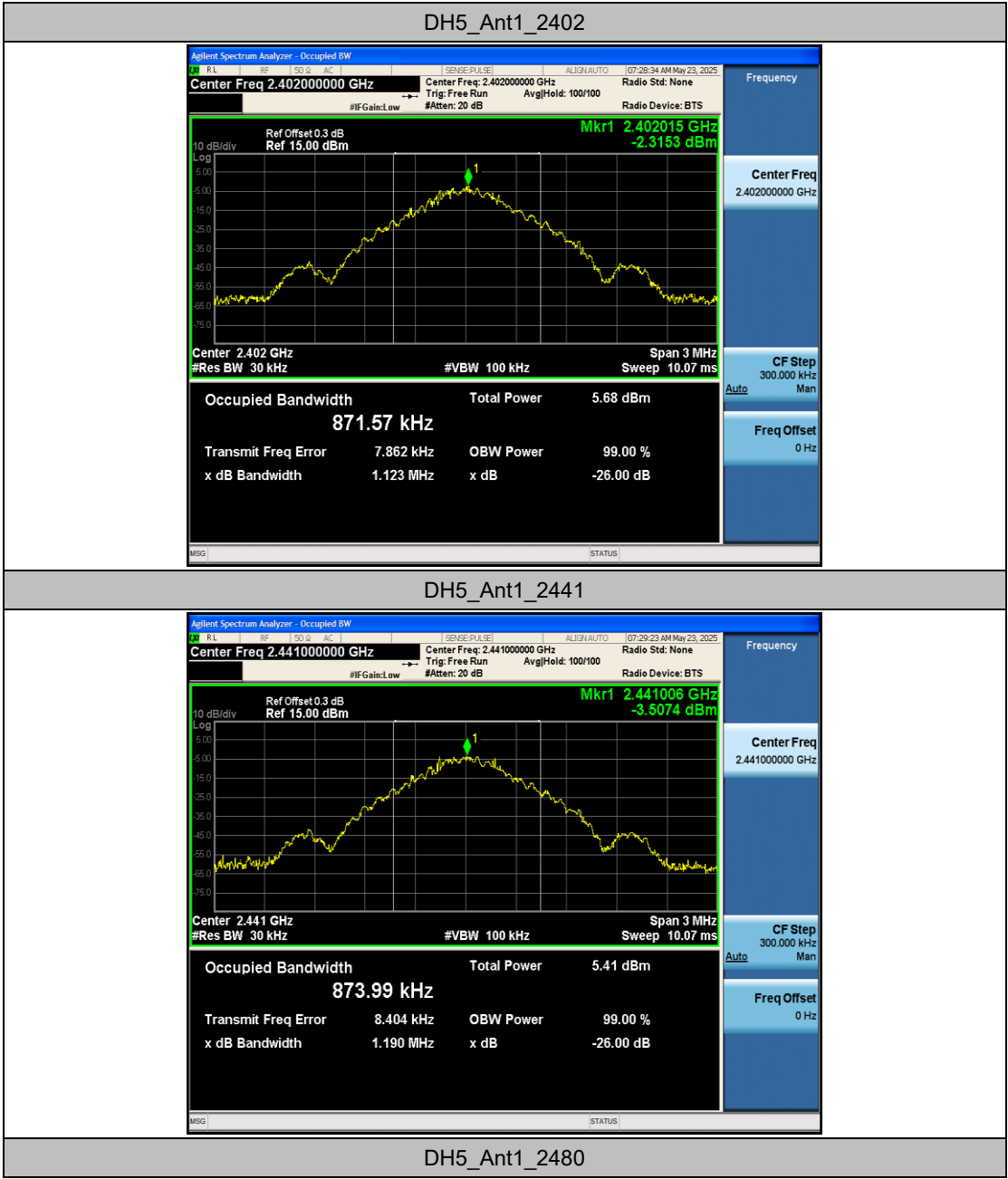


Appendix B: Occupied Channel Bandwidth

Test Result

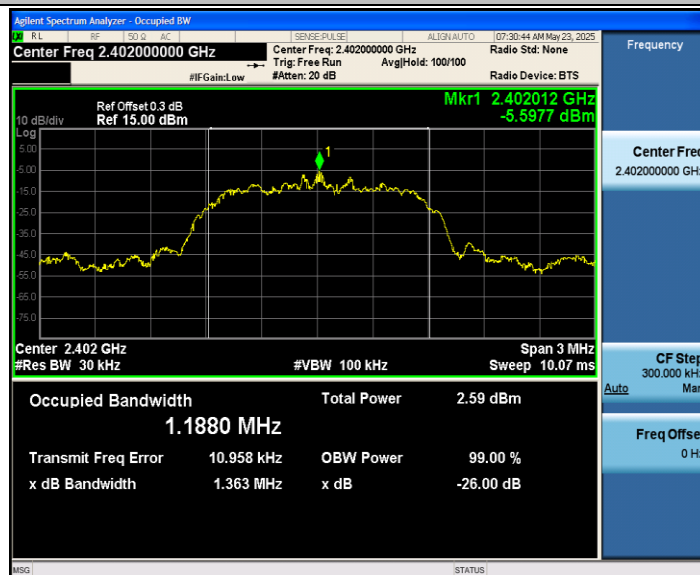
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87157	2401.5721	2402.4436	---	---
		2441	0.87399	2440.5714	2441.4454	---	---
		2480	0.86618	2479.5740	2480.4402	---	---
2DH5	Ant1	2402	1.1880	2401.4170	2402.6050	---	---
		2441	1.1876	2440.4161	2441.6037	---	---
		2480	1.1904	2479.4167	2480.6071	---	---

Test Graphs

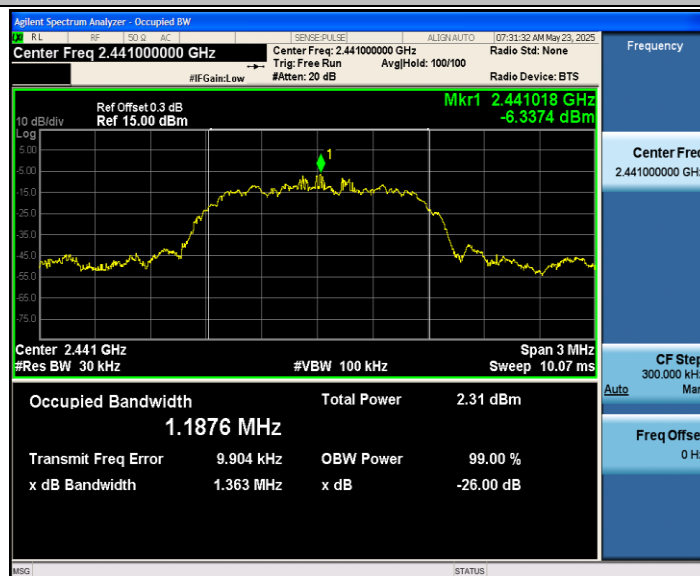




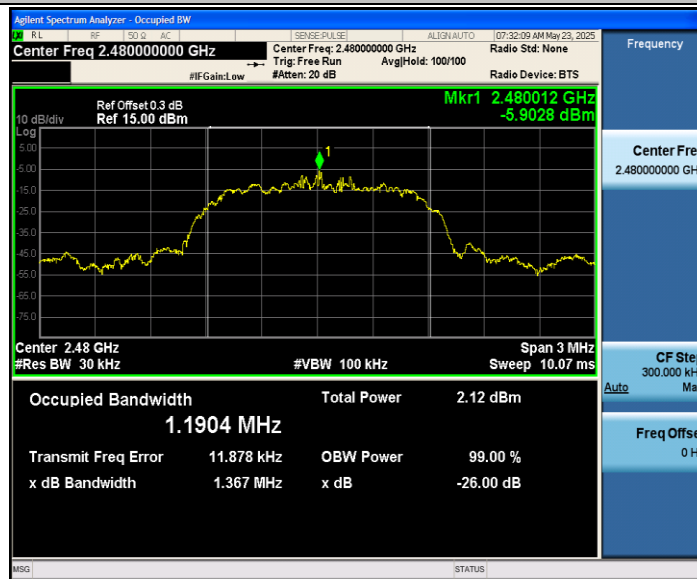
2DH5_Ant1_2402



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	-0.16	≤20.97	PASS
		2441	-0.41	≤20.97	PASS
		2480	-0.53	≤20.97	PASS
2DH5	Ant1	2402	-1.00	≤20.97	PASS
		2441	-1.20	≤20.97	PASS
		2480	-1.33	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥ 0.957	PASS
2DH5	Ant1	Hop	1.06	≥ 0.854	PASS

Test Graphs

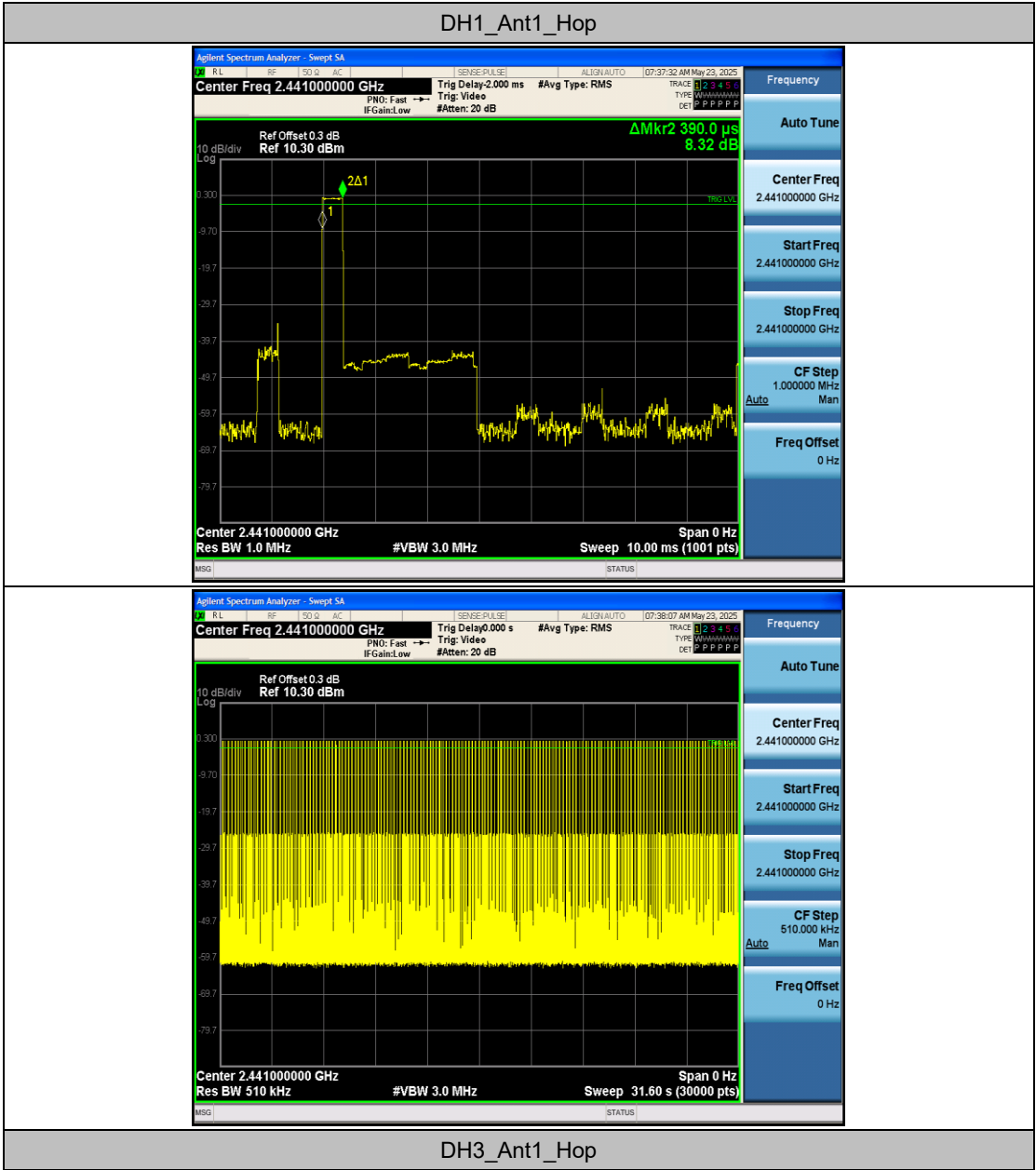


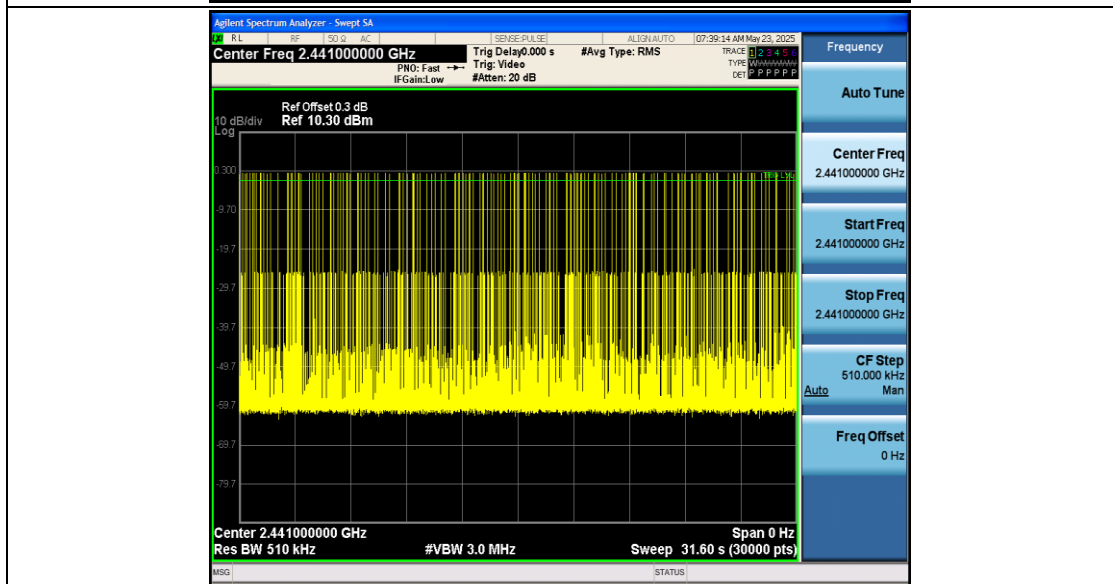
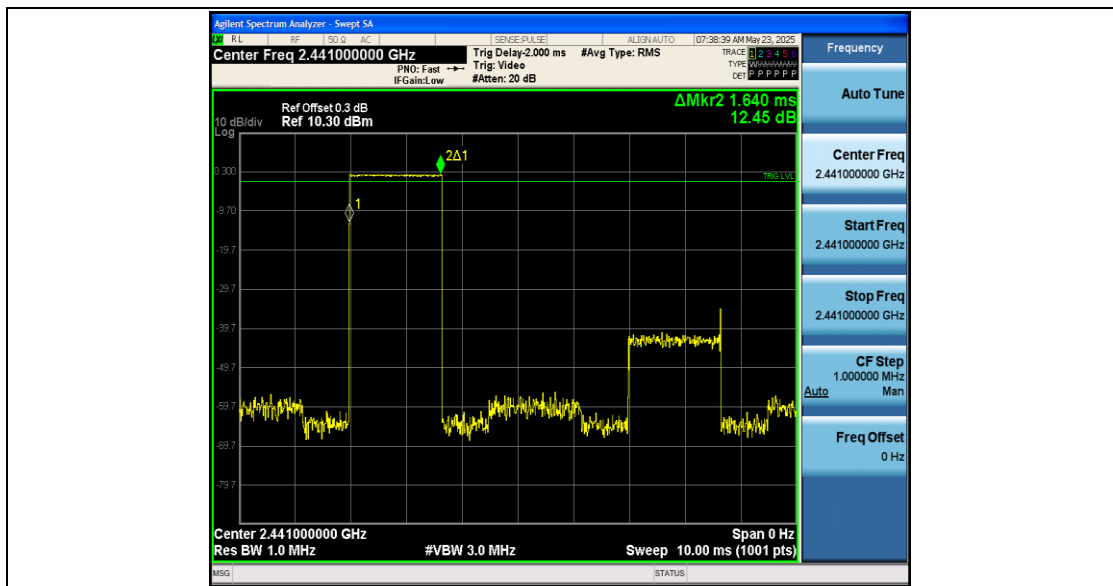
Appendix E: Time of occupancy

Test Result

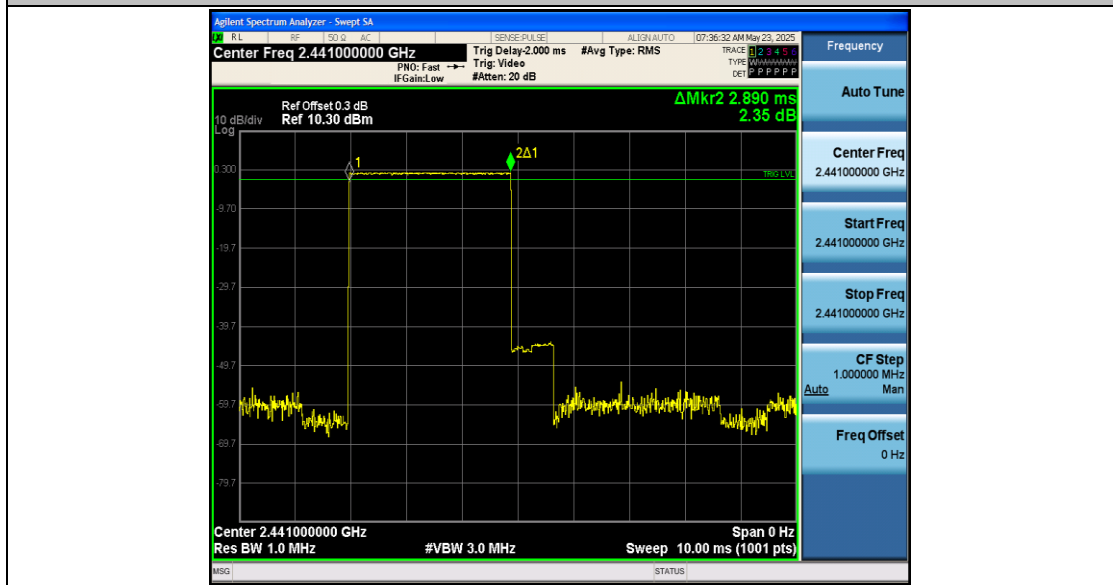
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	158	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.890	114	0.329	≤0.4	PASS
2DH1	Ant1	Hop	0.400	319	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.650	165	0.272	≤0.4	PASS
2DH5	Ant1	Hop	2.890	99	0.286	≤0.4	PASS

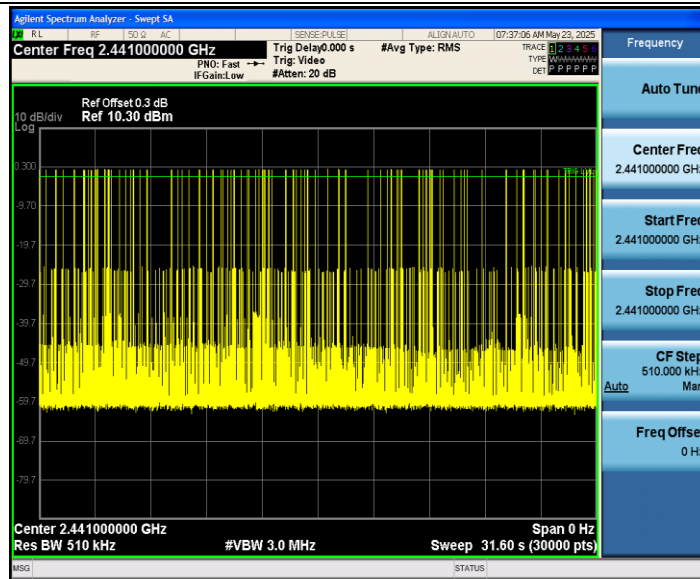
Test Graphs



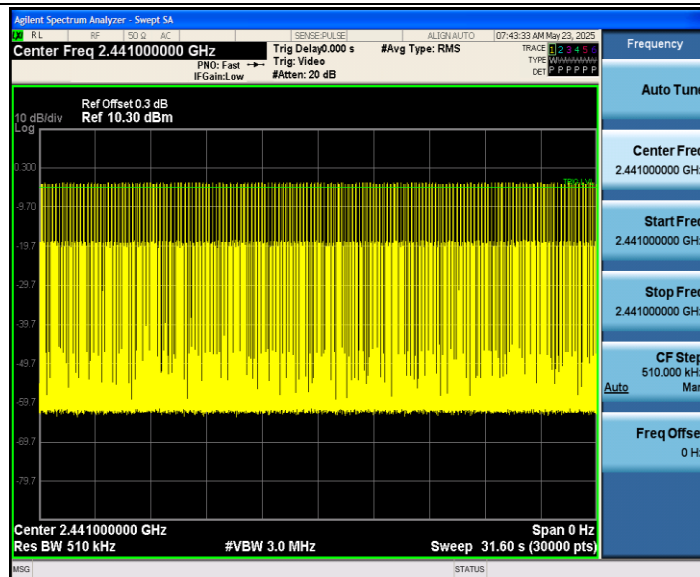


DH5_Ant1_Hop

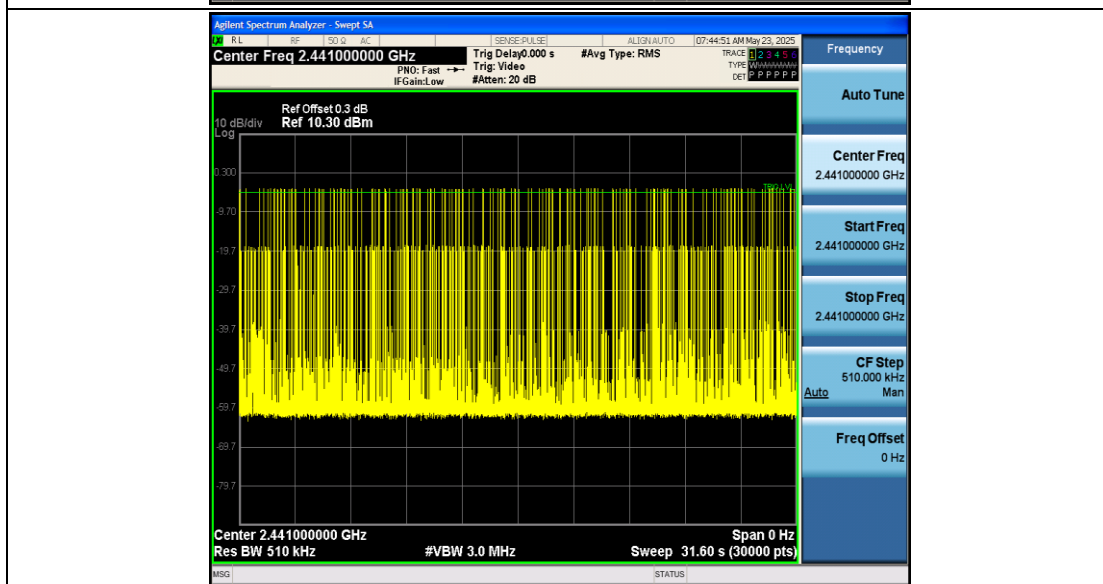




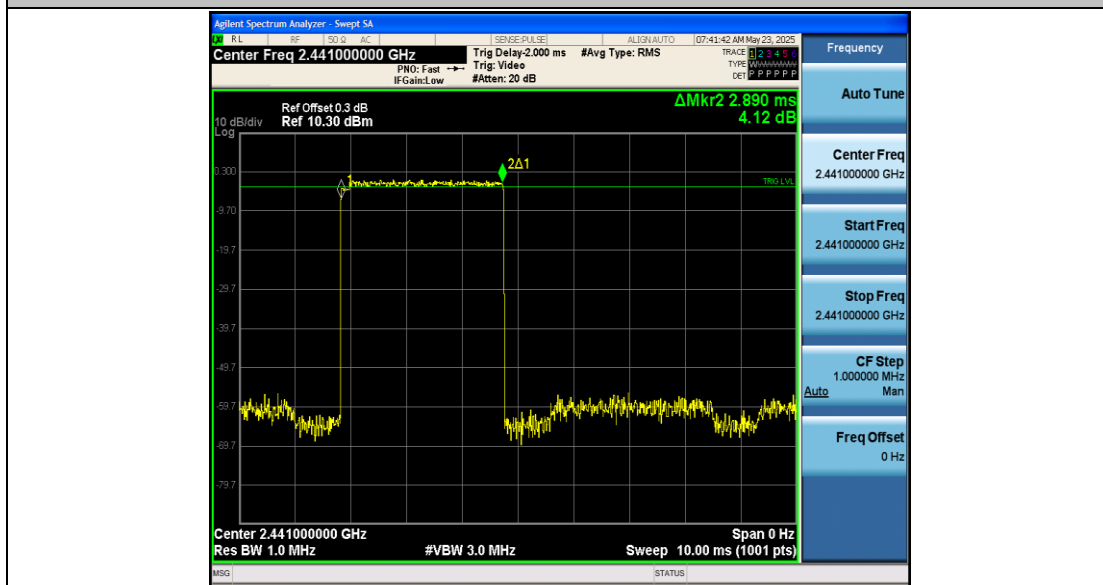
2DH1_Ant1_Hop

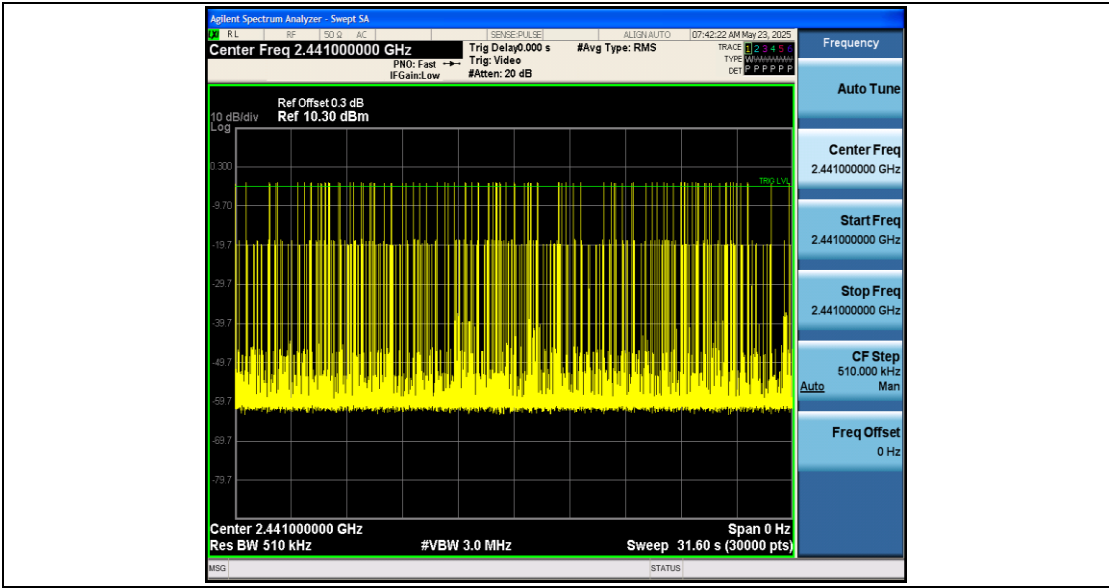


2DH3_Ant1_Hop



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

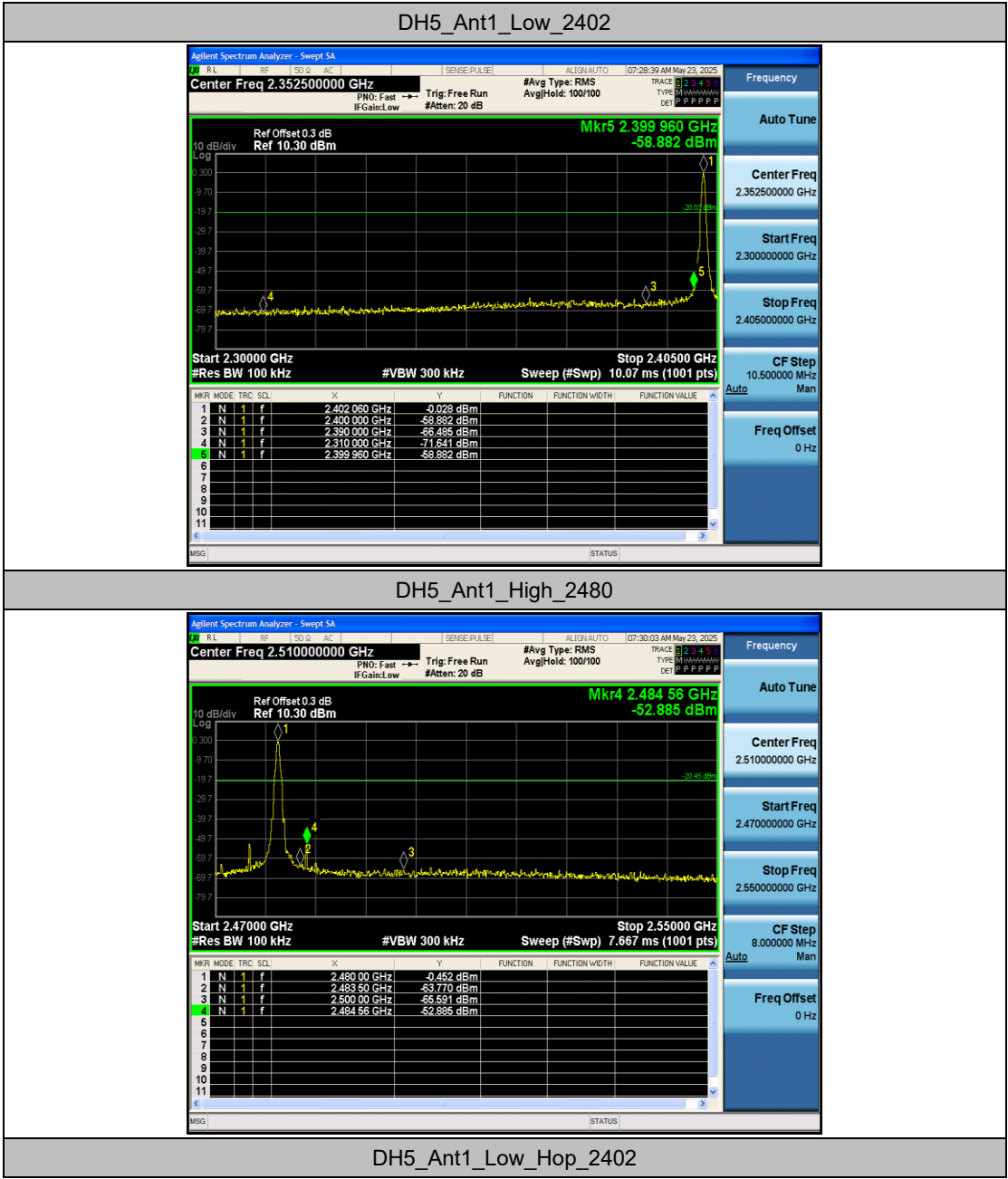


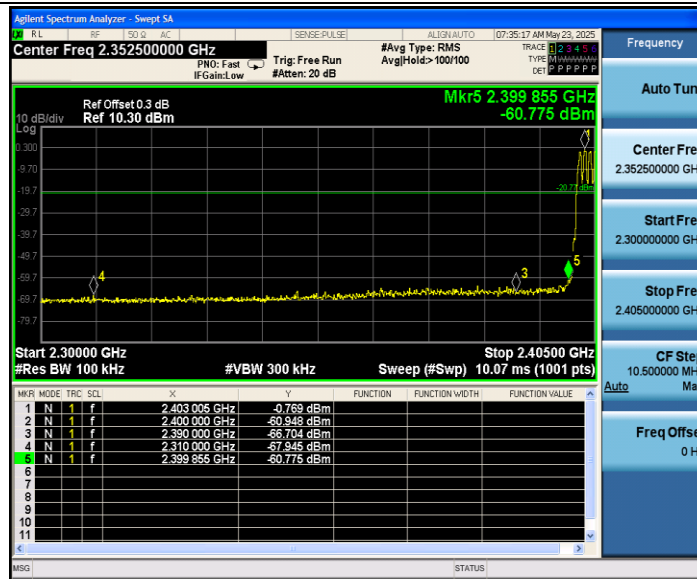
Appendix G: Band edge measurements

Test Result

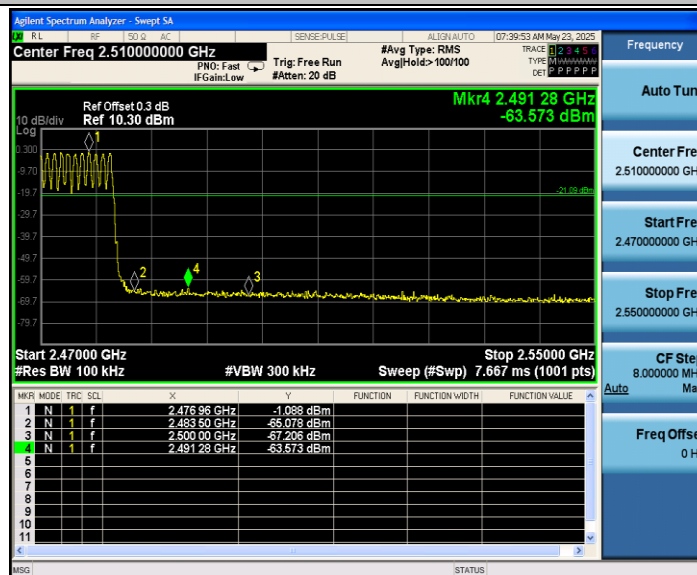
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.03	-58.88	≤-20.03	PASS
		High	2480	-0.45	-52.89	≤-20.45	PASS
		Low	Hop_2402	-0.77	-60.78	≤-20.77	PASS
		High	Hop_2480	-1.09	-63.57	≤-21.09	PASS
2DH5	Ant1	Low	2402	-3.61	-56.62	≤-23.61	PASS
		High	2480	-5.33	-64.22	≤-25.33	PASS
		Low	Hop_2402	-6.59	-64.23	≤-26.59	PASS
		High	Hop_2480	-4.87	-64.59	≤-24.87	PASS

Test Graphs

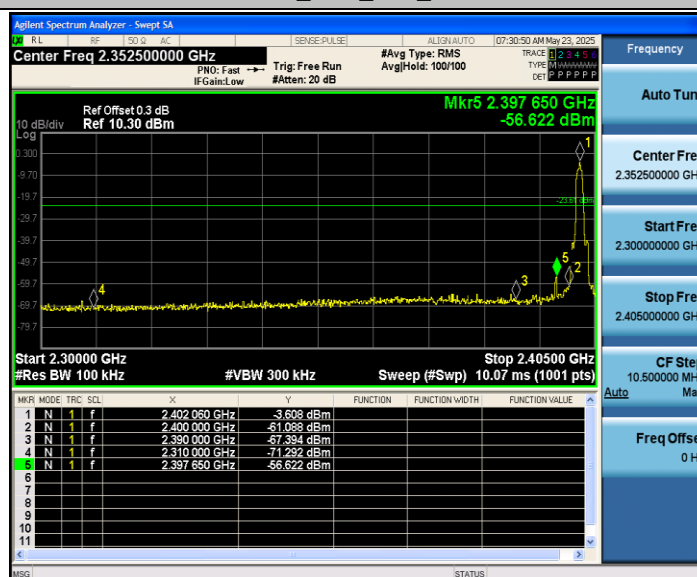




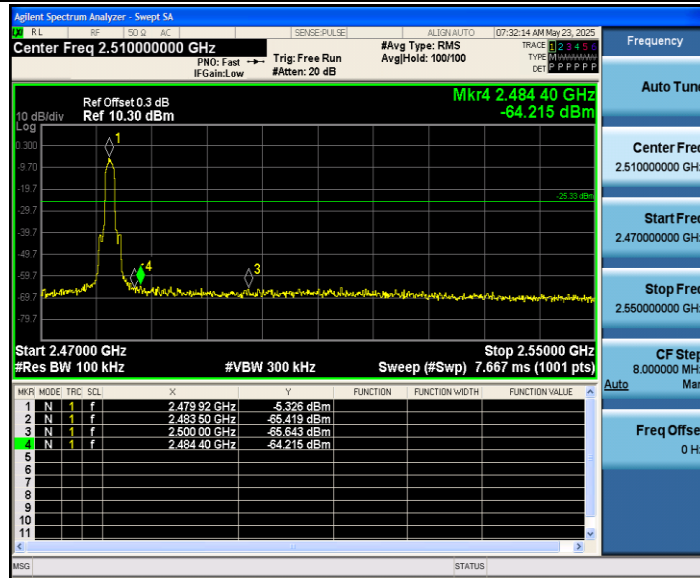
DH5_Ant1_High_Hop_2480



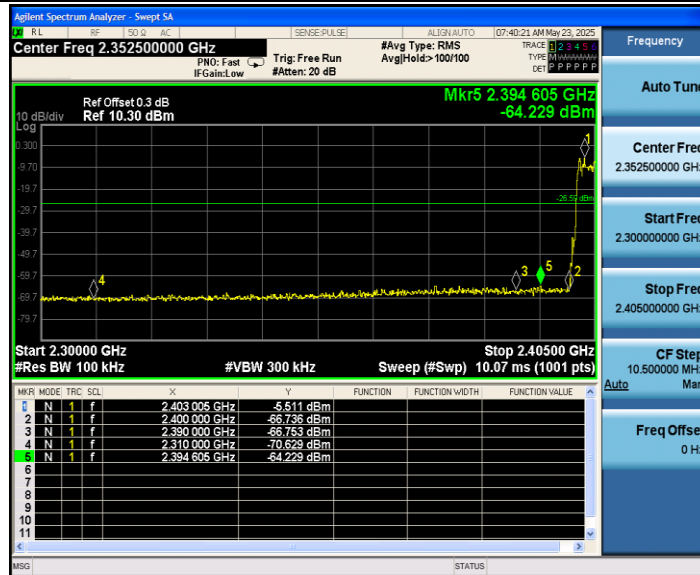
2DH5_Ant1_Low_2402



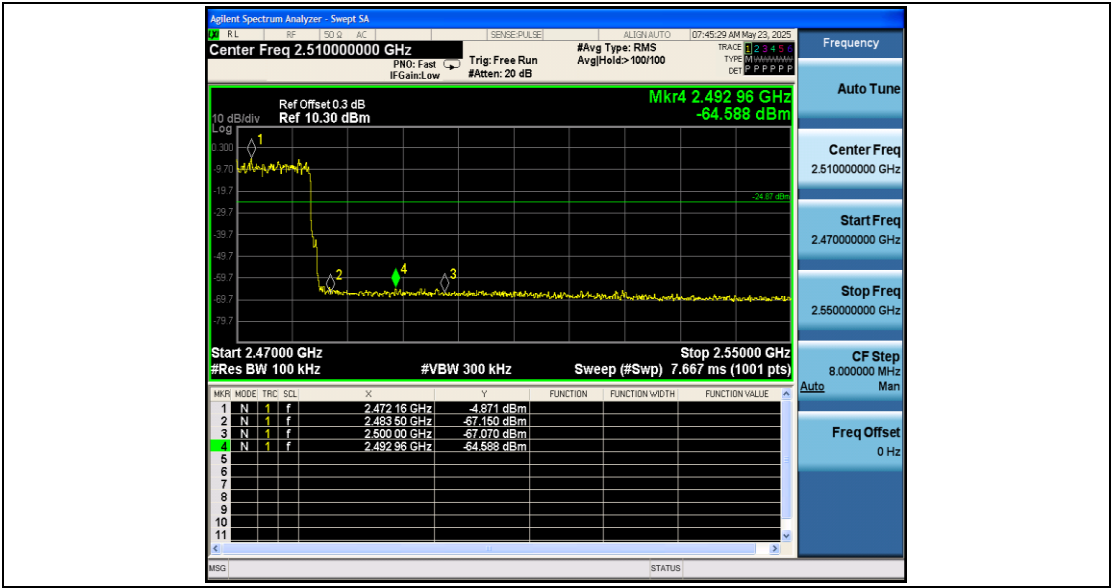
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

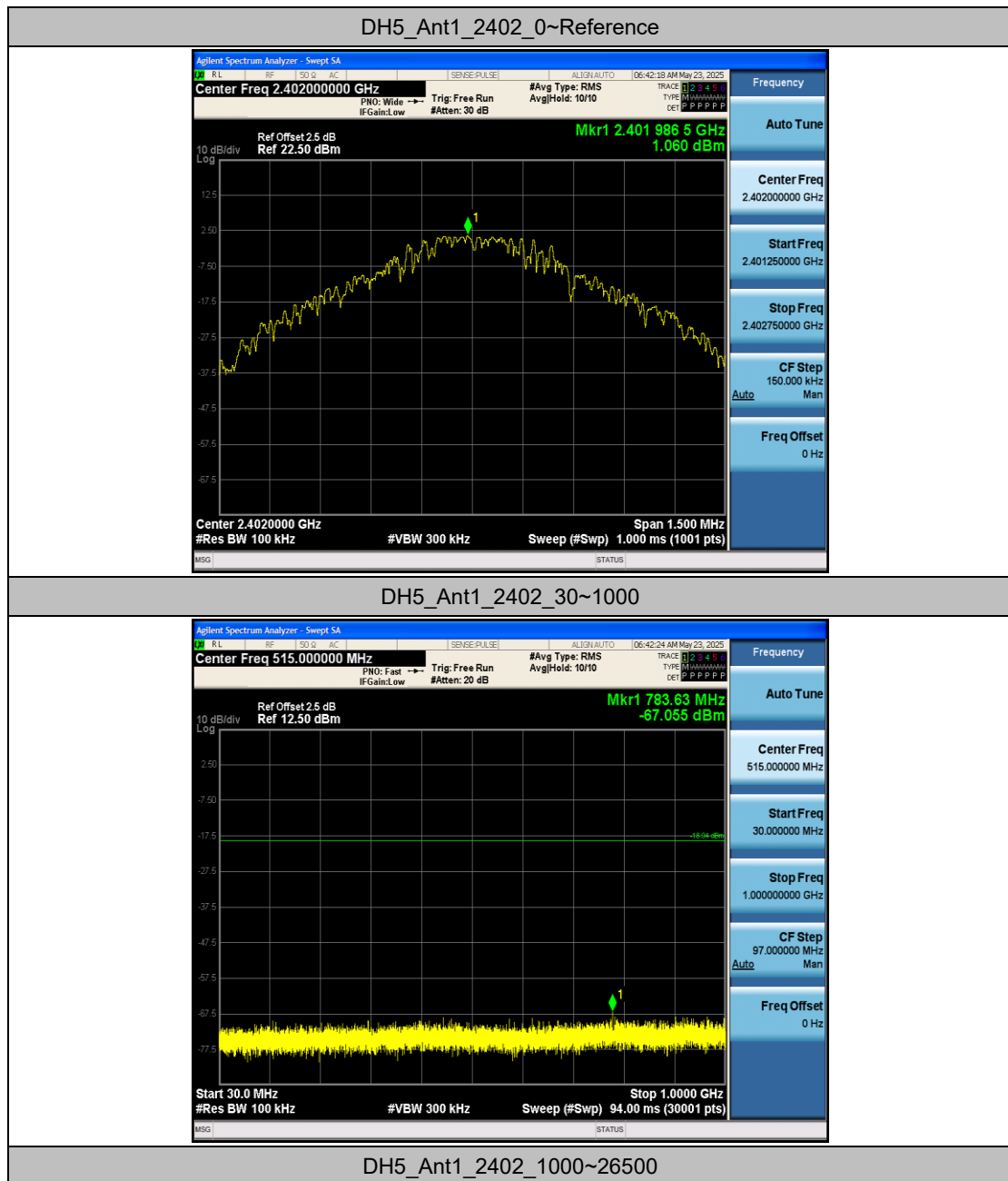


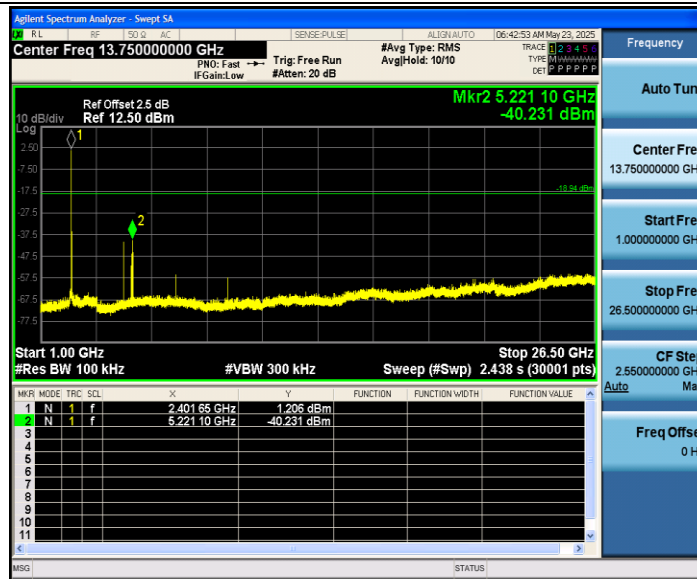
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-67.06	≤-18.94	PASS
			1000~26500	1.06	-40.23	≤-18.94	PASS
		2441	Reference	0.90	0.90	---	PASS
			30~1000	0.90	-68.33	≤-19.1	PASS
			1000~26500	0.90	-43.18	≤-19.1	PASS
		2480	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-67.56	≤-19.13	PASS
			1000~26500	0.87	-41.2	≤-19.13	PASS
2DH5	Ant1	2402	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-68.01	≤-21.55	PASS
			1000~26500	-1.55	-41.03	≤-21.55	PASS
		2441	Reference	-3.52	-3.52	---	PASS
			30~1000	-3.52	-68.25	≤-23.52	PASS
			1000~26500	-3.52	-41.64	≤-23.52	PASS
		2480	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-68.27	≤-24.89	PASS
			1000~26500	-4.89	-47.06	≤-24.89	PASS

Test Graphs

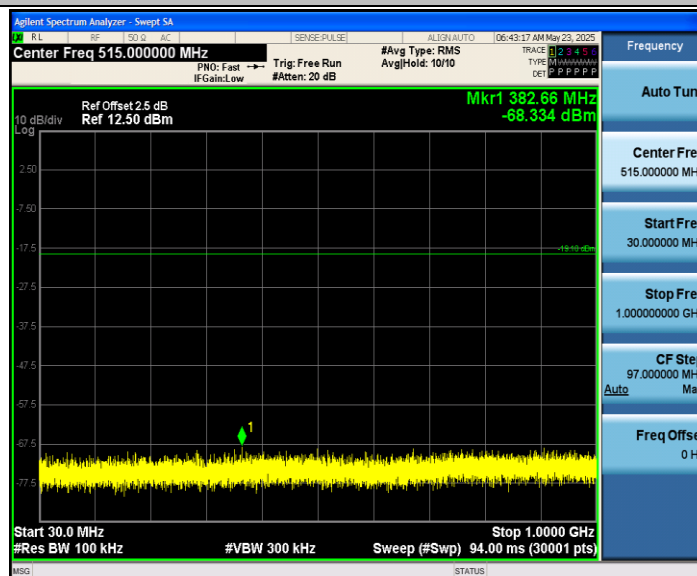




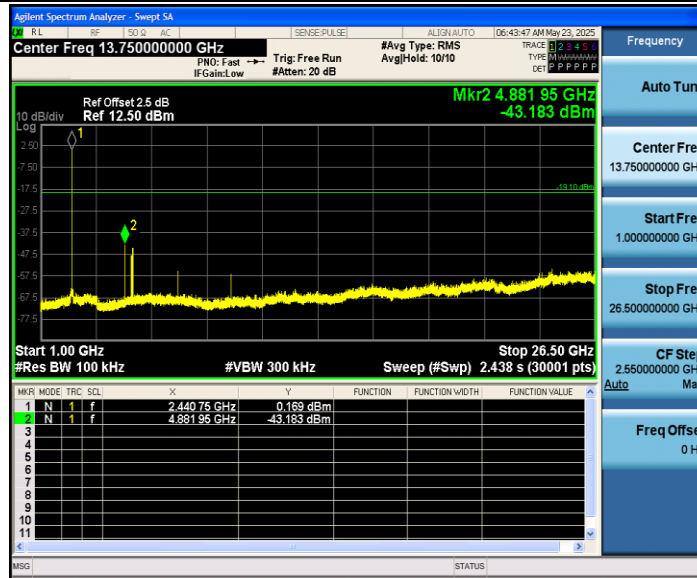
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



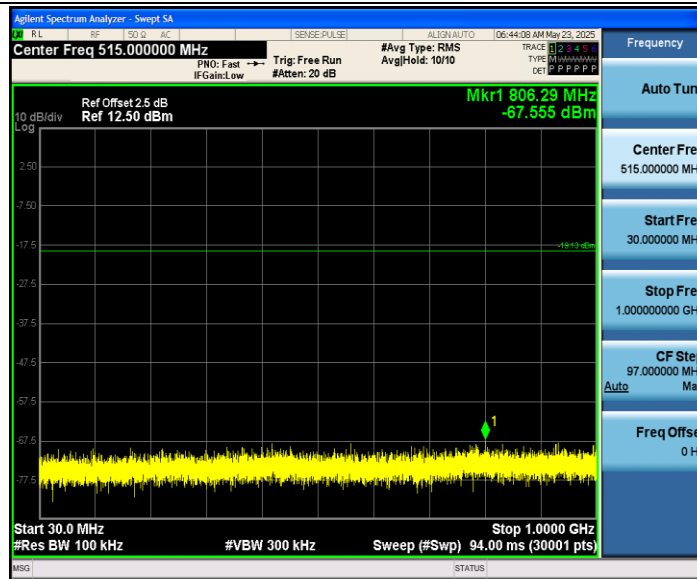
DH5_Ant1_2441_1000~26500



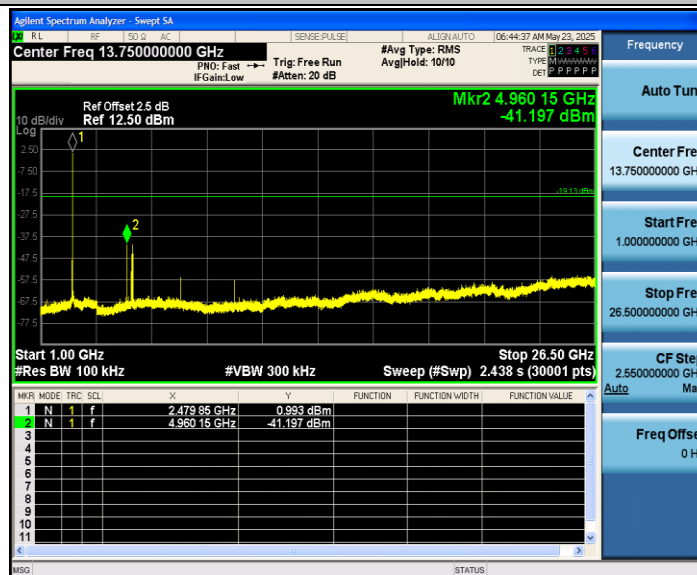
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



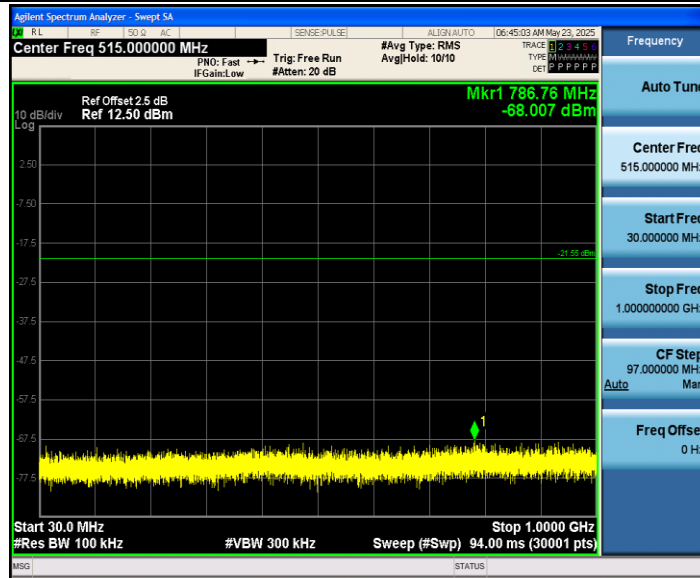
DH5_Ant1_2480_1000~26500



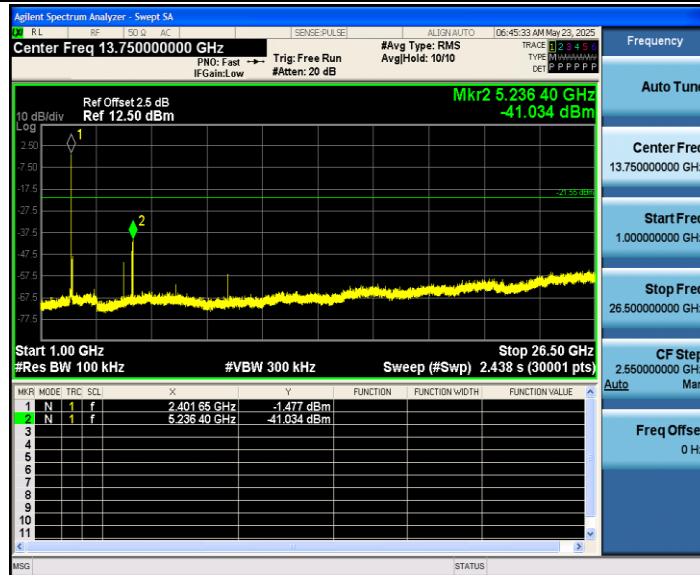
2DH5_Ant1_2402_0~Reference



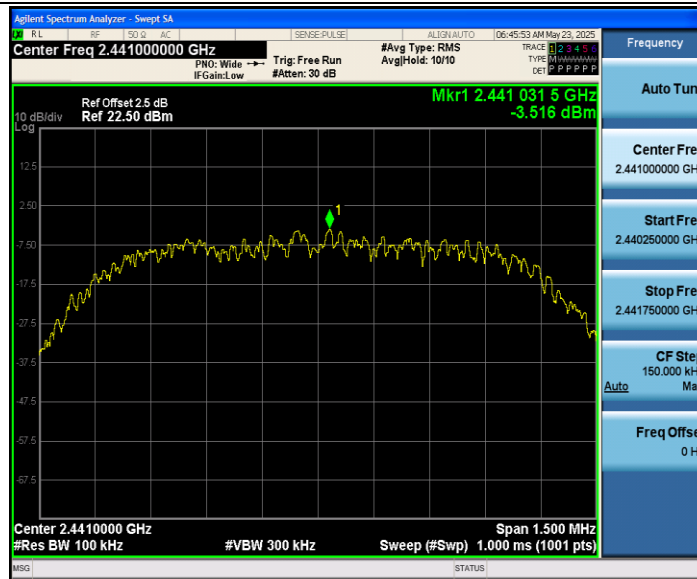
2DH5_Ant1_2402_30~1000



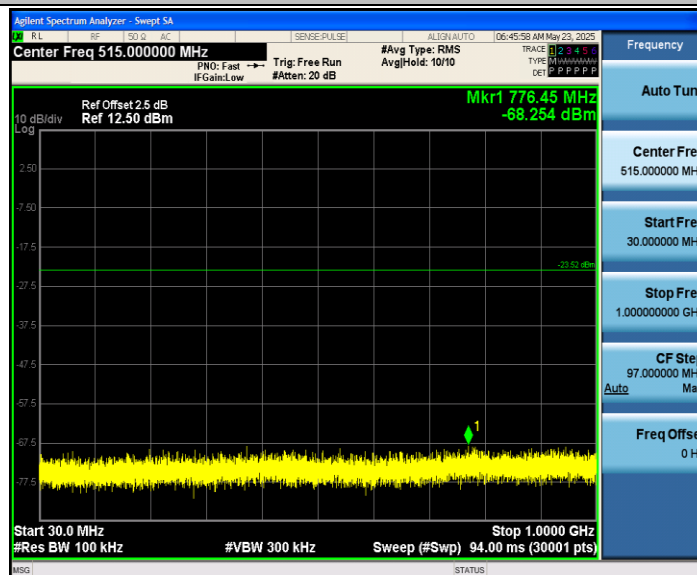
2DH5_Ant1_2402_1000~26500



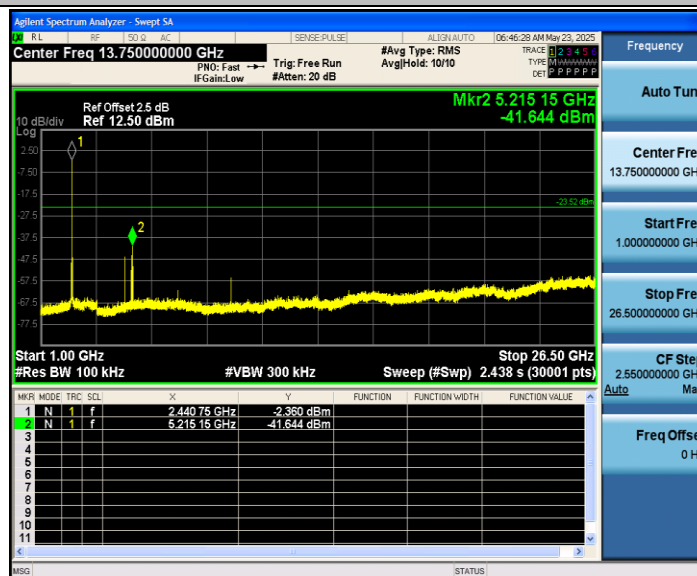
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



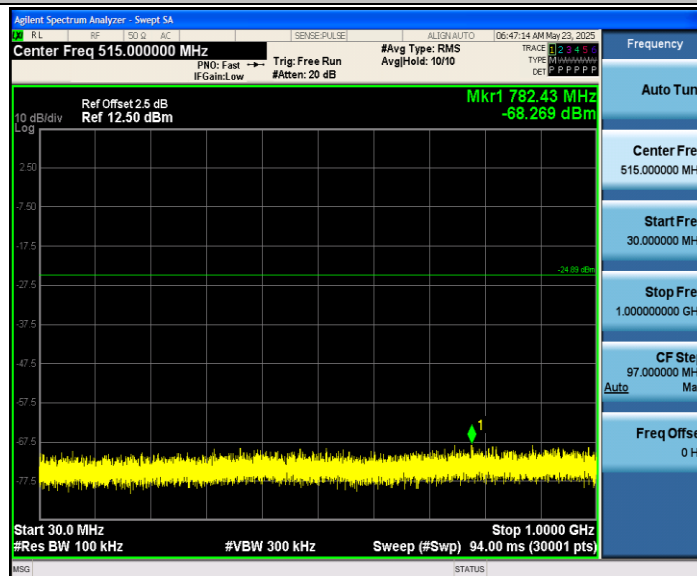
2DH5_Ant1_2441_1000~26500



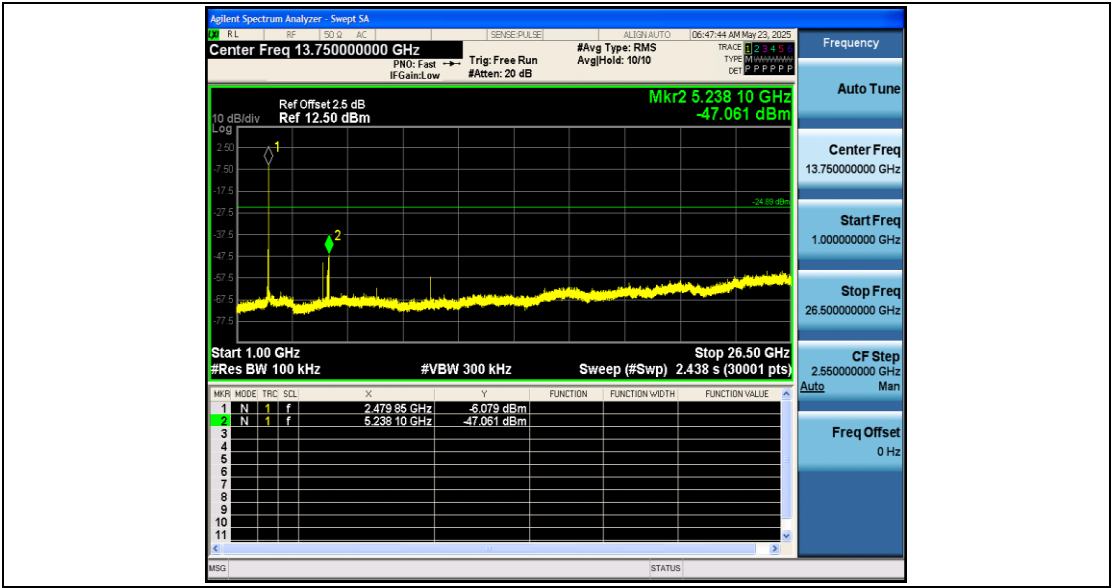
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

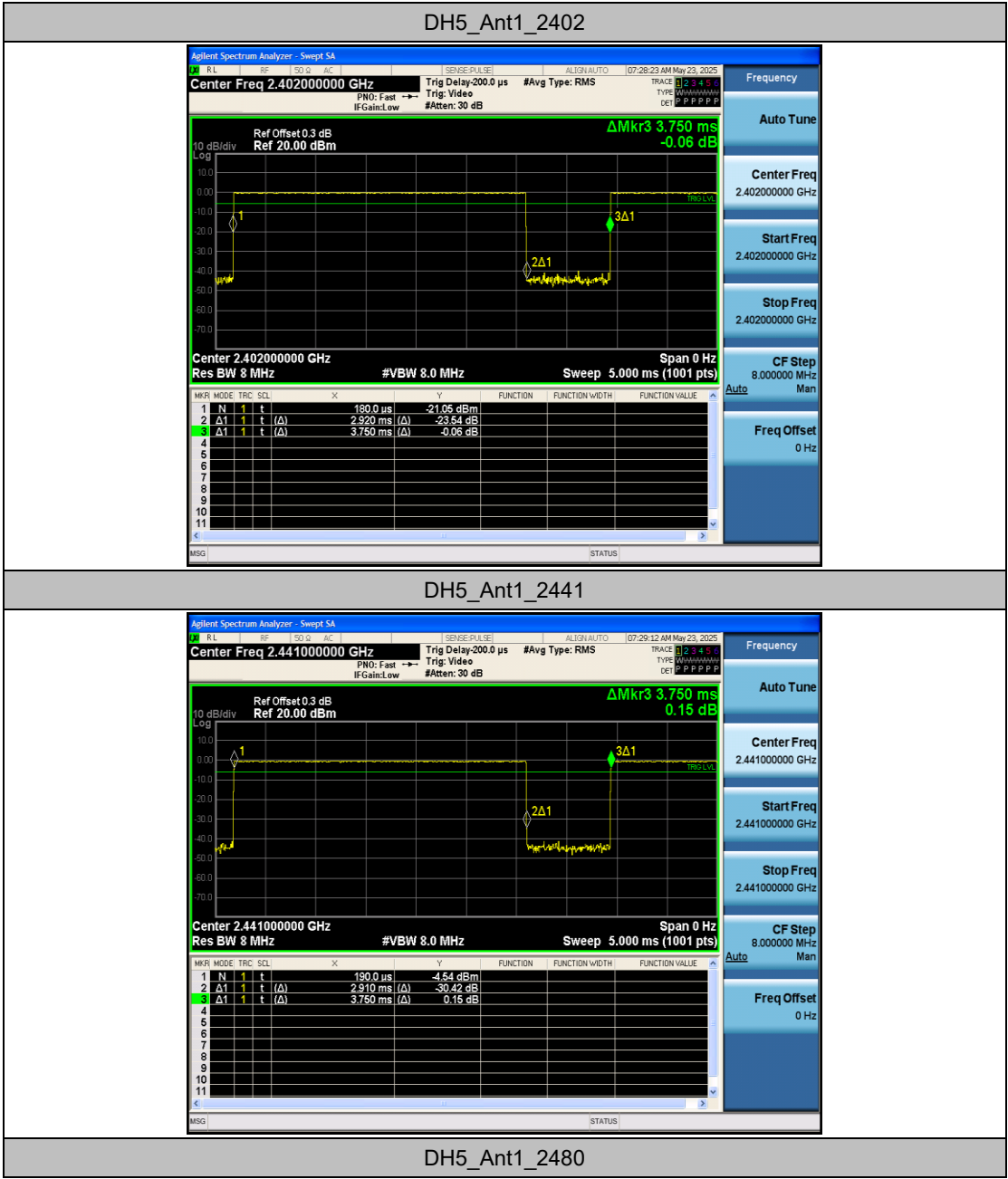


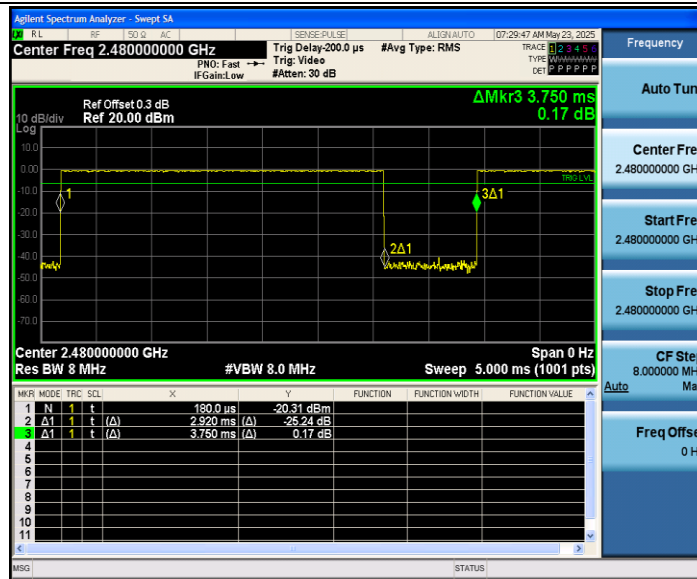
Appendix I: Duty Cycle

Test Result

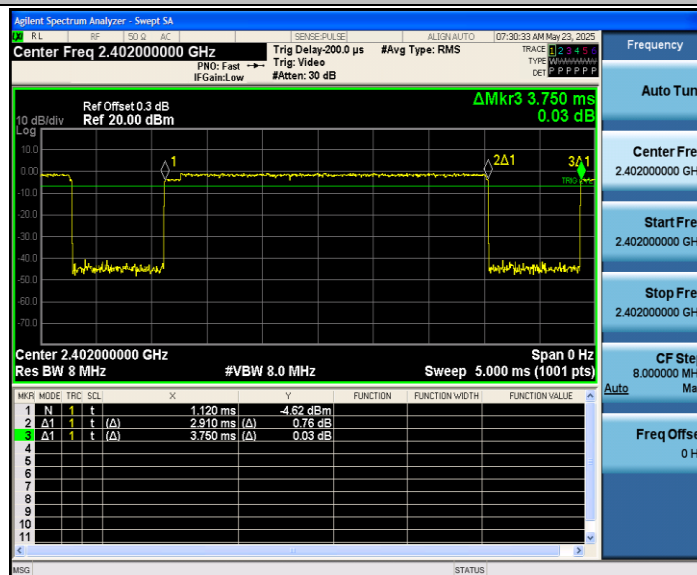
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09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

Test Graphs

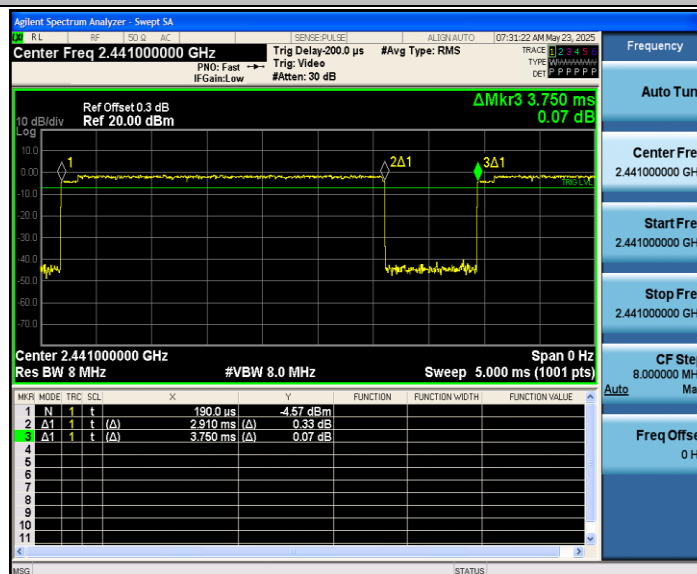




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

