

FCC Appendix RF Test Data

FCC ID : 2BKMA-DWS1

Company : Shenzhen G-Tide Technology Co.,Ltd.

EUT : Wireless headphones

Model Number : DWS1

Report No. : CTA25071604001

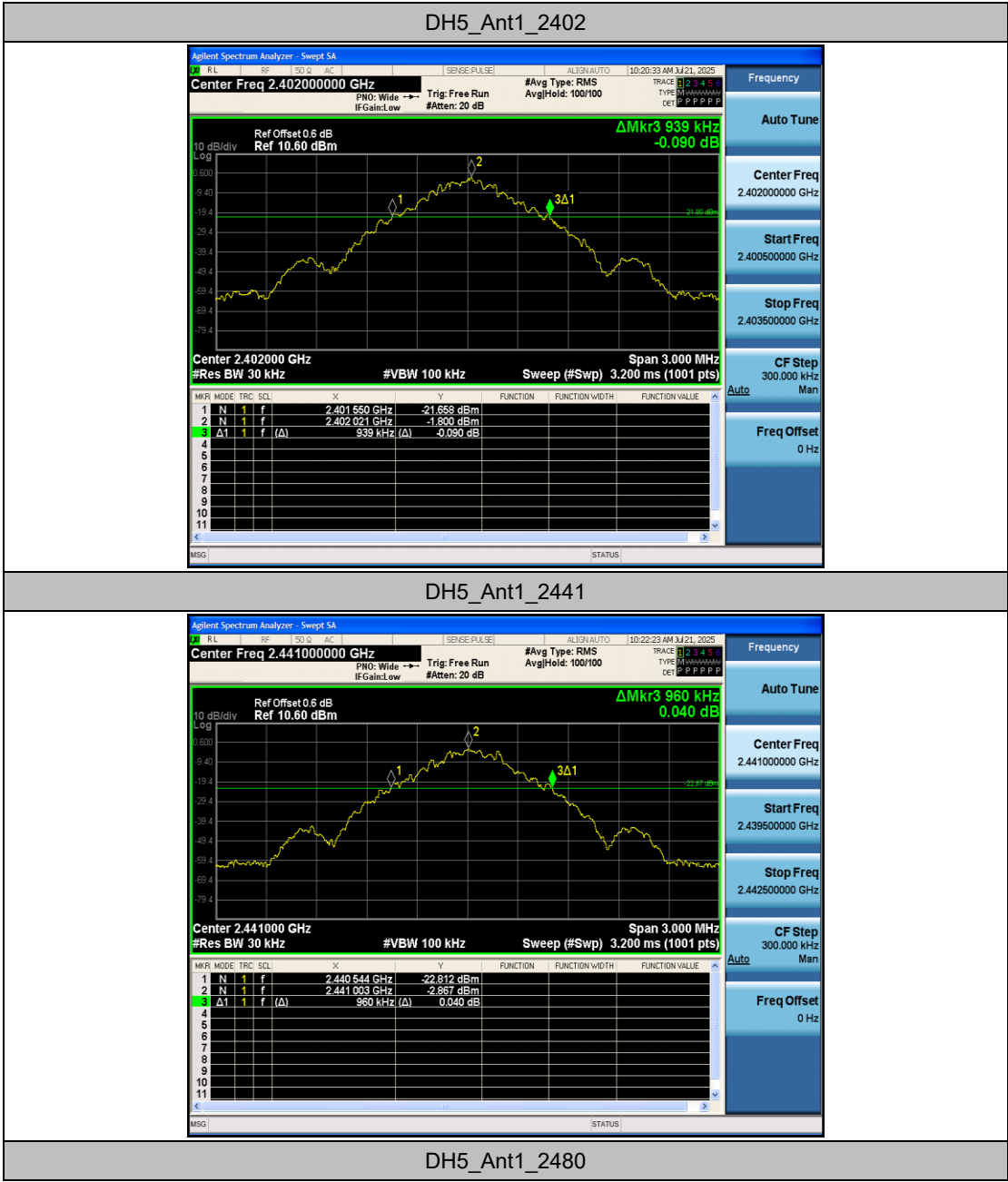
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.550	2402.489	---	---
		2441	0.960	2440.544	2441.504	---	---
		2480	0.945	2479.547	2480.492	---	---
2DH5	Ant1	2402	1.281	2401.379	2402.660	---	---
		2441	1.326	2440.343	2441.669	---	---
		2480	1.287	2479.379	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

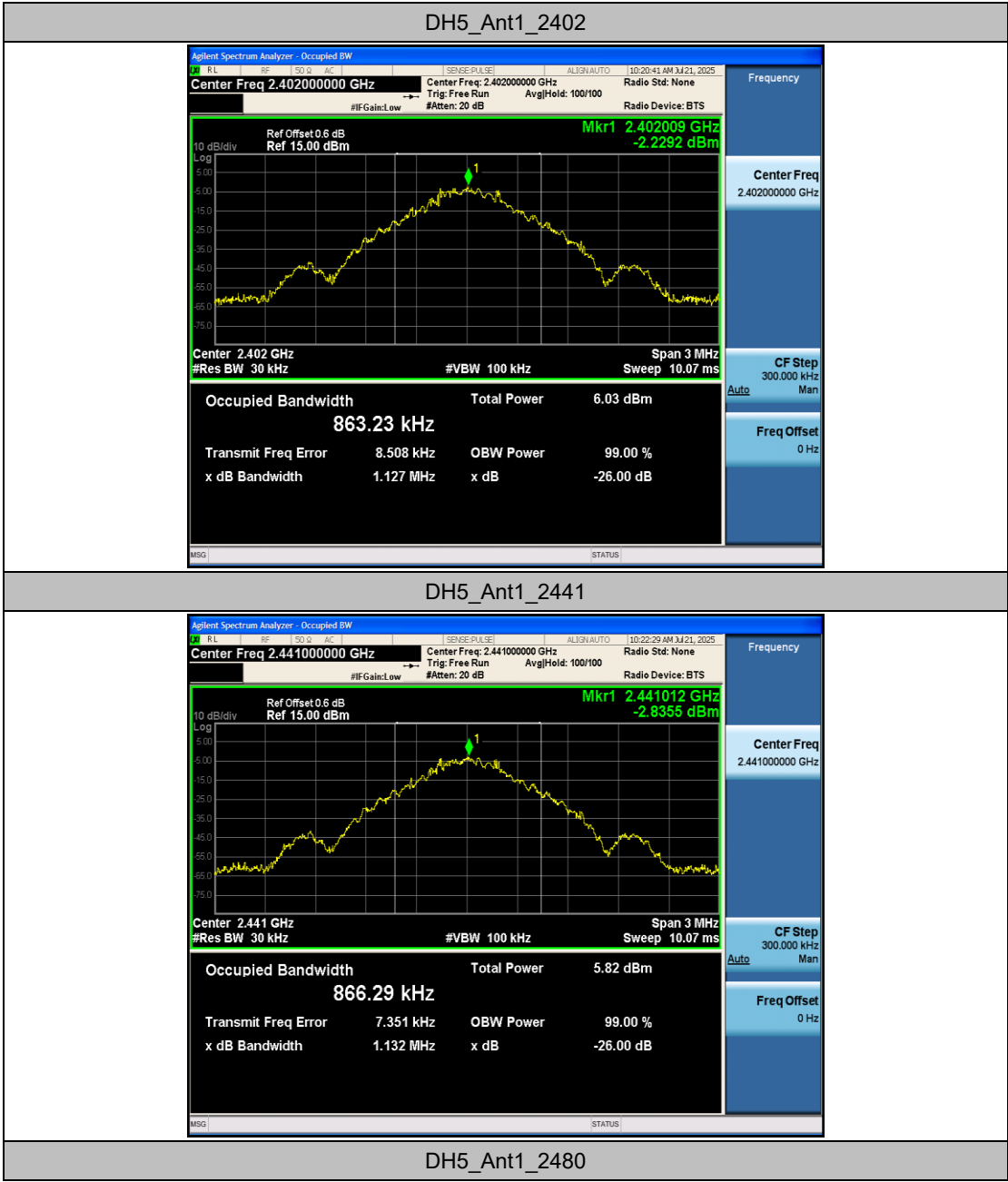


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86323	2401.5769	2402.4401	---	---
		2441	0.86629	2440.5742	2441.4405	---	---
		2480	0.86789	2479.5738	2480.4417	---	---
2DH5	Ant1	2402	1.1893	2401.4150	2402.6043	---	---
		2441	1.1898	2440.4149	2441.6047	---	---
		2480	1.1907	2479.4168	2480.6075	---	---

Test Graphs



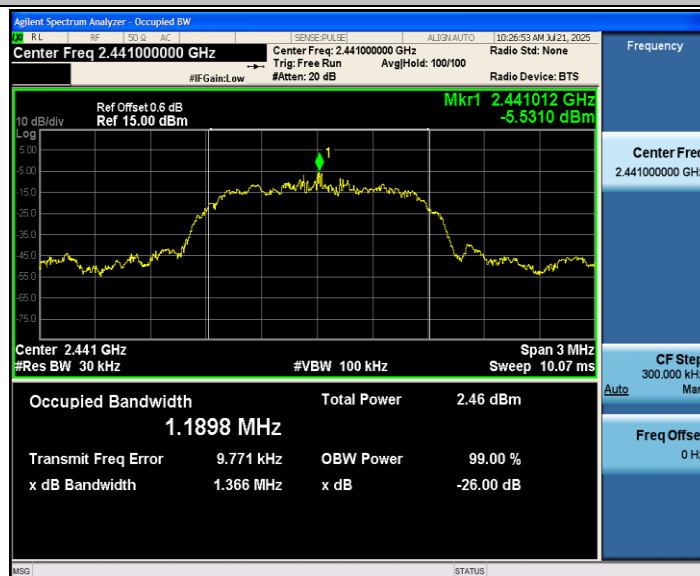
DH5_Ant1_2480



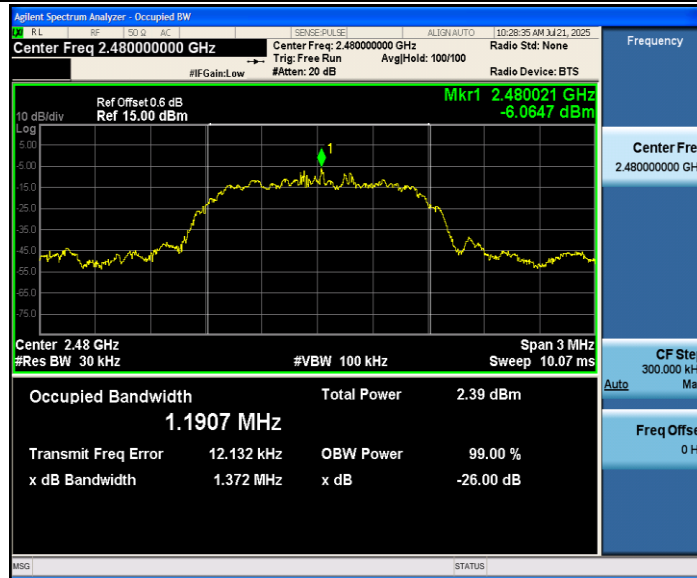
2DH5_Ant1_2402



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	0.01	≤20.97	PASS
		2441	-0.18	≤20.97	PASS
		2480	-0.16	≤20.97	PASS
2DH5	Ant1	2402	-0.79	≤20.97	PASS
		2441	-0.93	≤20.97	PASS
		2480	-0.91	≤20.97	PASS

Right:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.46	≤20.97	PASS
		2441	0.24	≤20.97	PASS
		2480	0.43	≤20.97	PASS
2DH5	Ant1	2402	0.38	≤20.97	PASS
		2441	0.53	≤20.97	PASS
		2480	0.62	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.036	≥ 0.960	PASS
2DH5	Ant1	Hop	1.172	≥ 0.884	PASS

Test Graphs

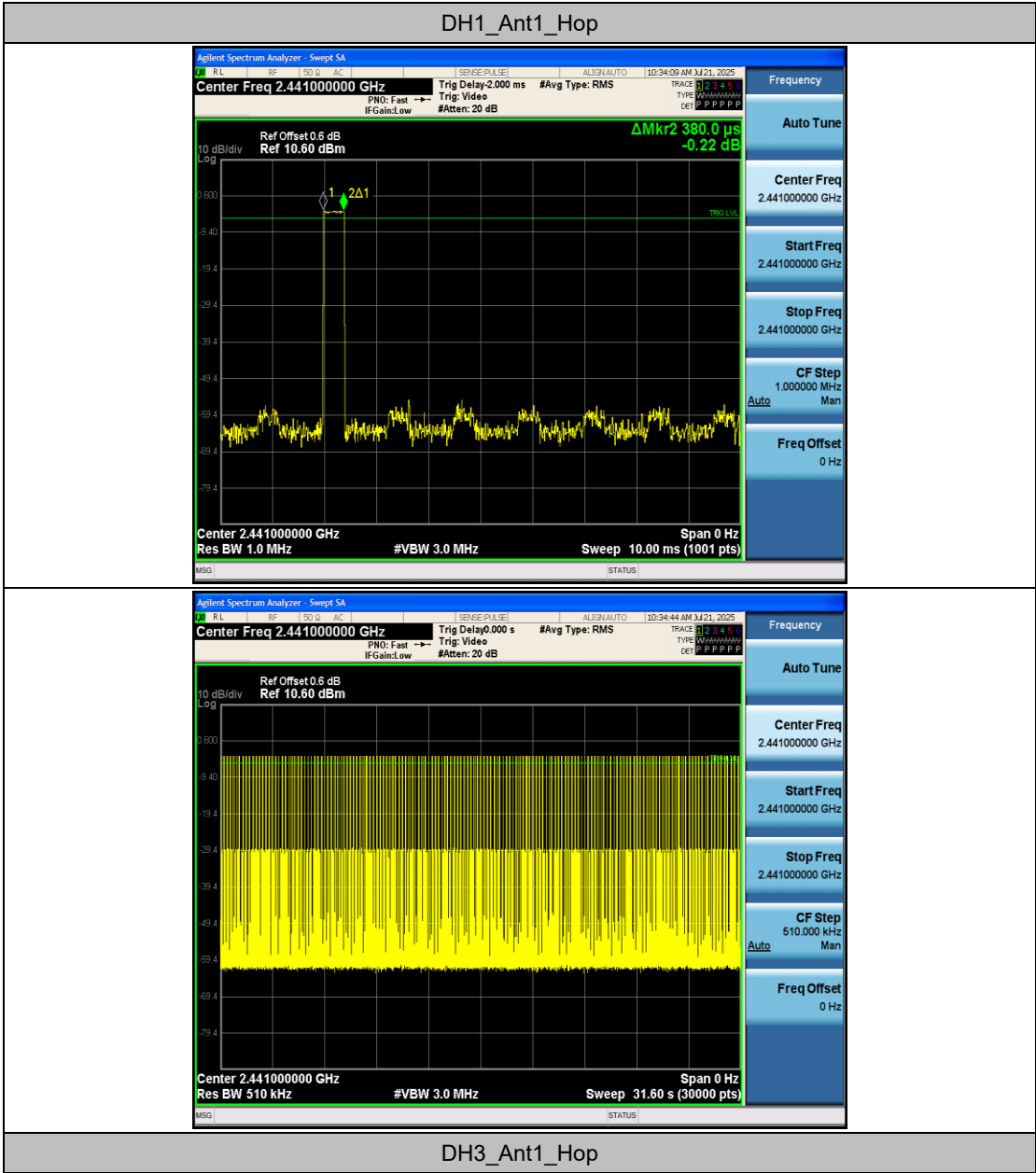


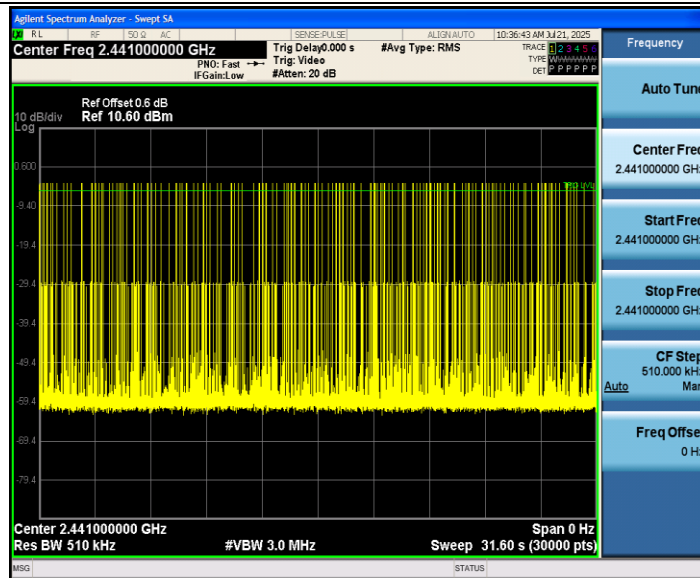
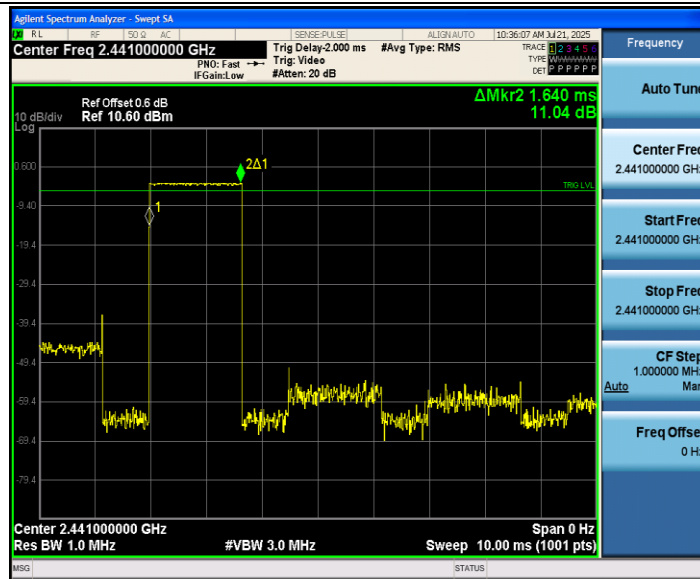
Appendix E: Time of occupancy

Test Result

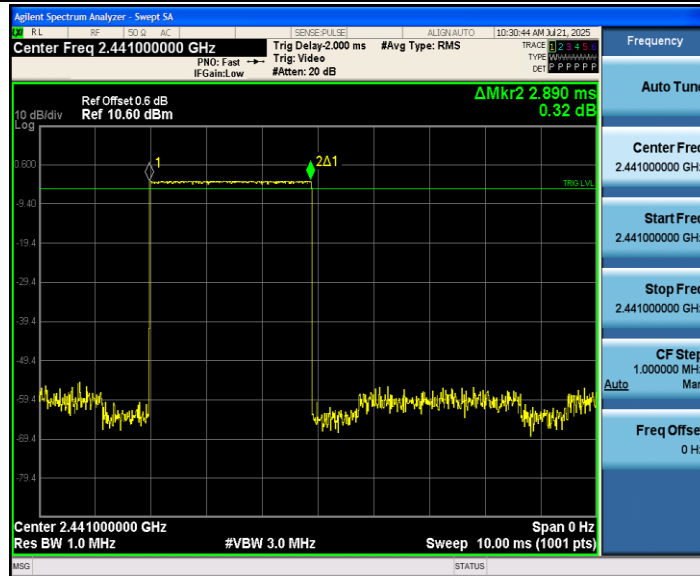
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	318	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.640	165	0.271	≤0.4	PASS
DH5	Ant1	Hop	2.890	110	0.318	≤0.4	PASS
2DH1	Ant1	Hop	0.380	316	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS

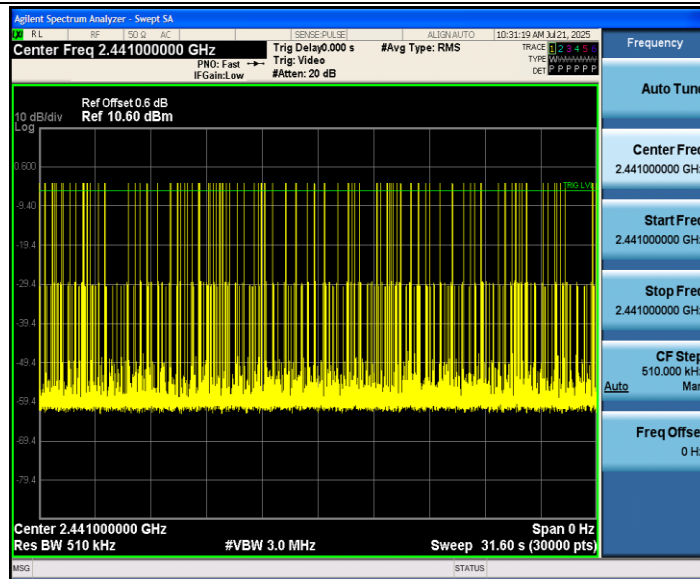
Test Graphs



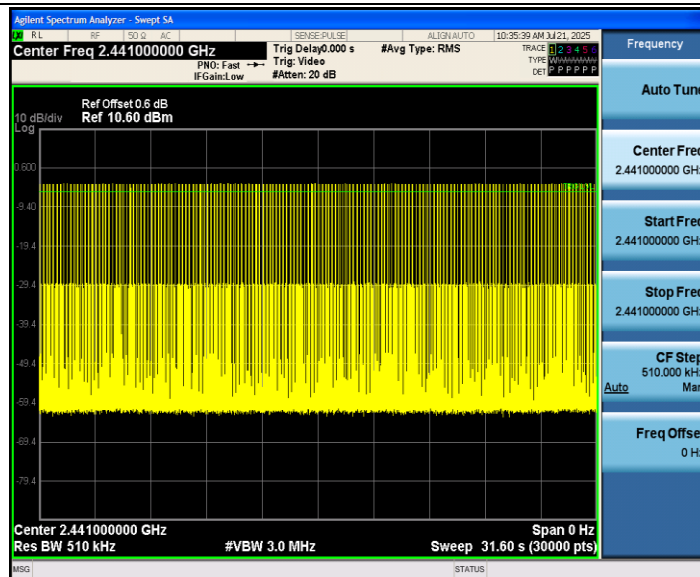
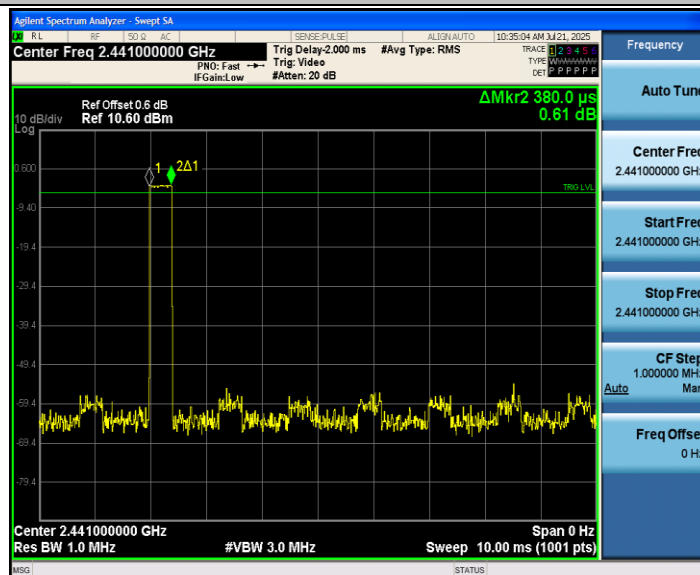


DH5_Ant1_Hop

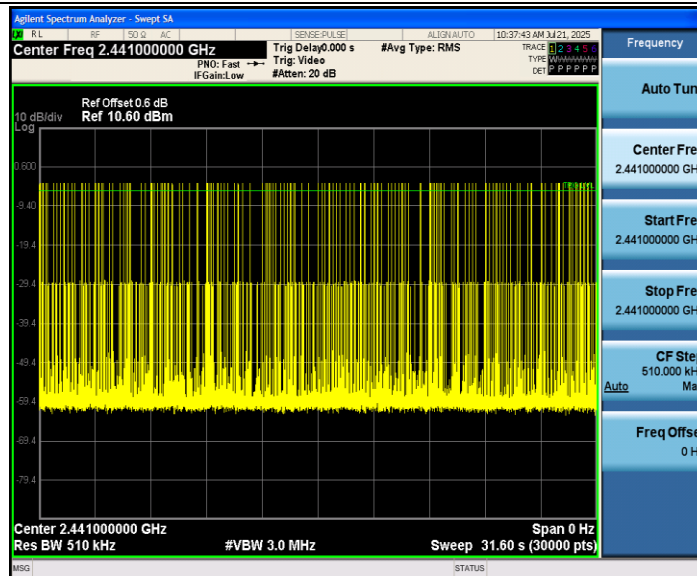
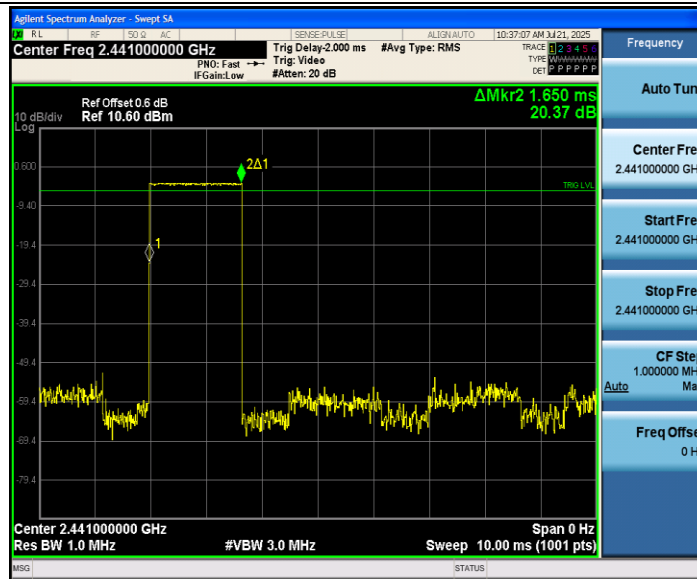




2DH1_Ant1_Hop

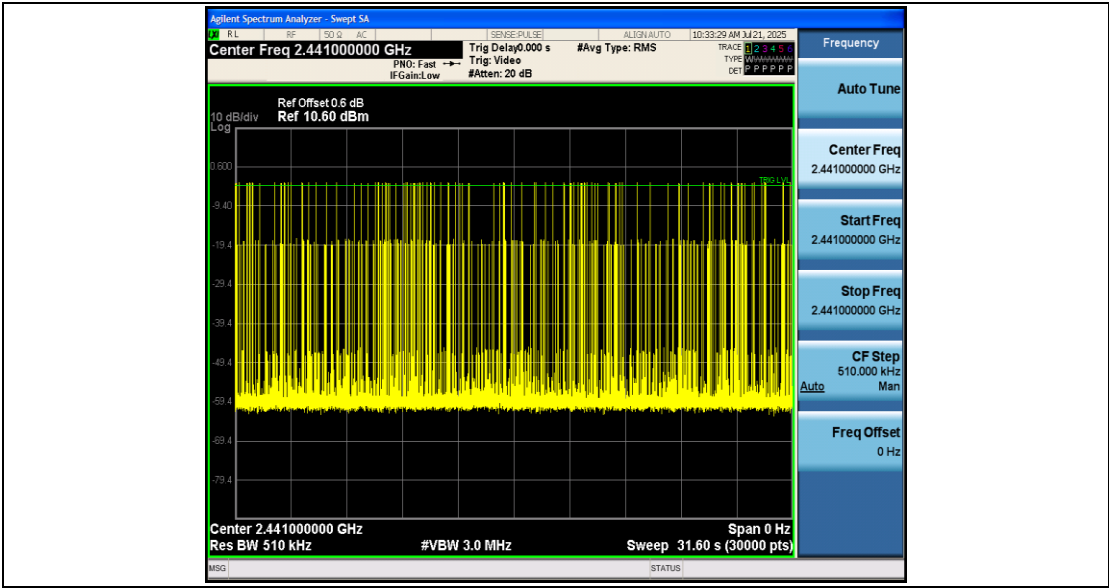


2DH3_Ant1_Hop



2DH5_Ant1_Hop



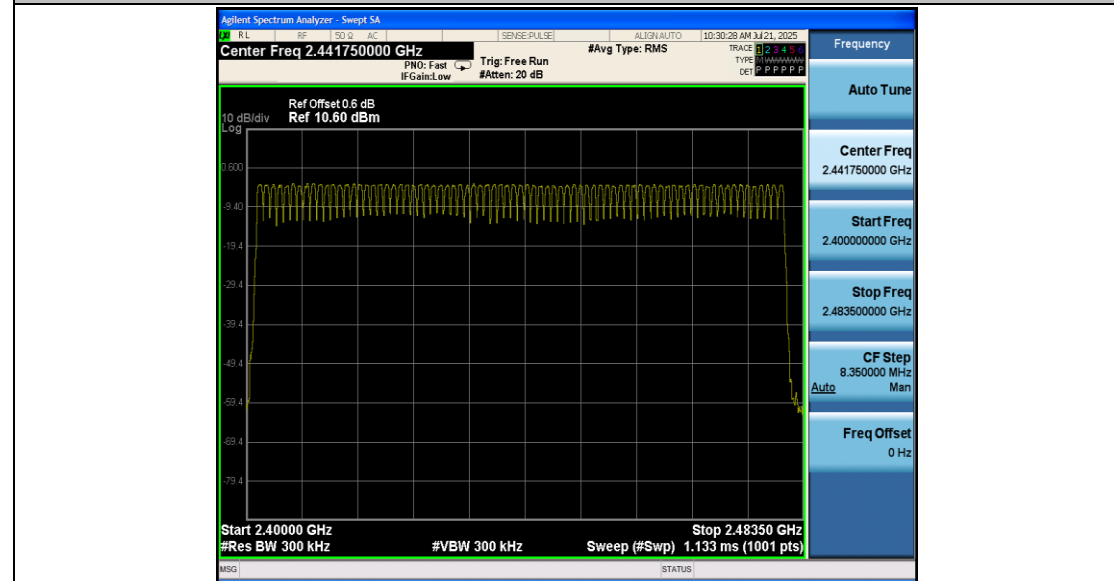


Appendix F: Number of hopping channels

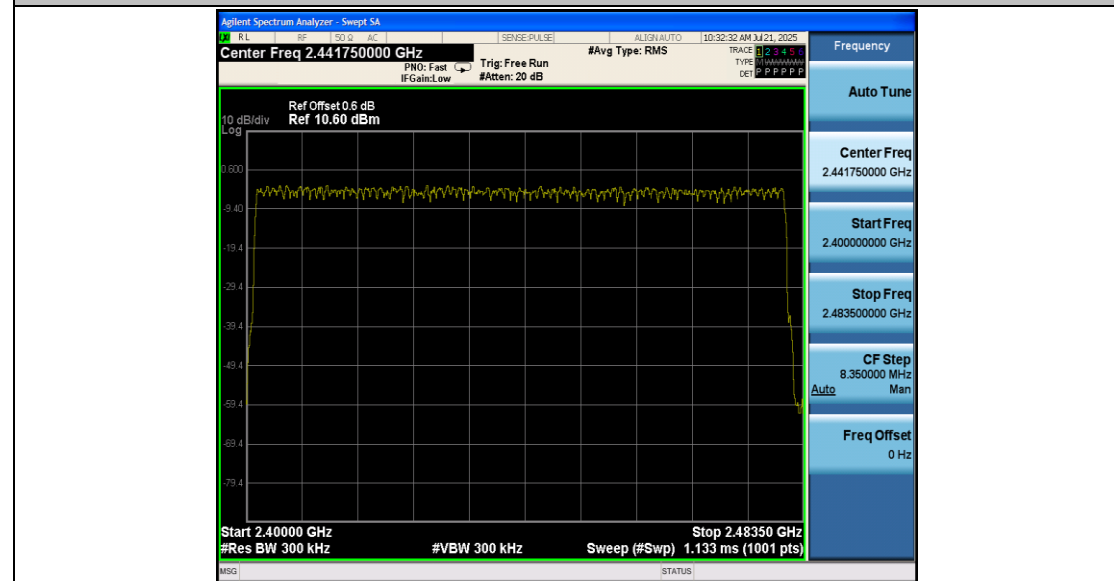
Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

DH5_Ant1_Hop



2DH5_Ant1_Hop

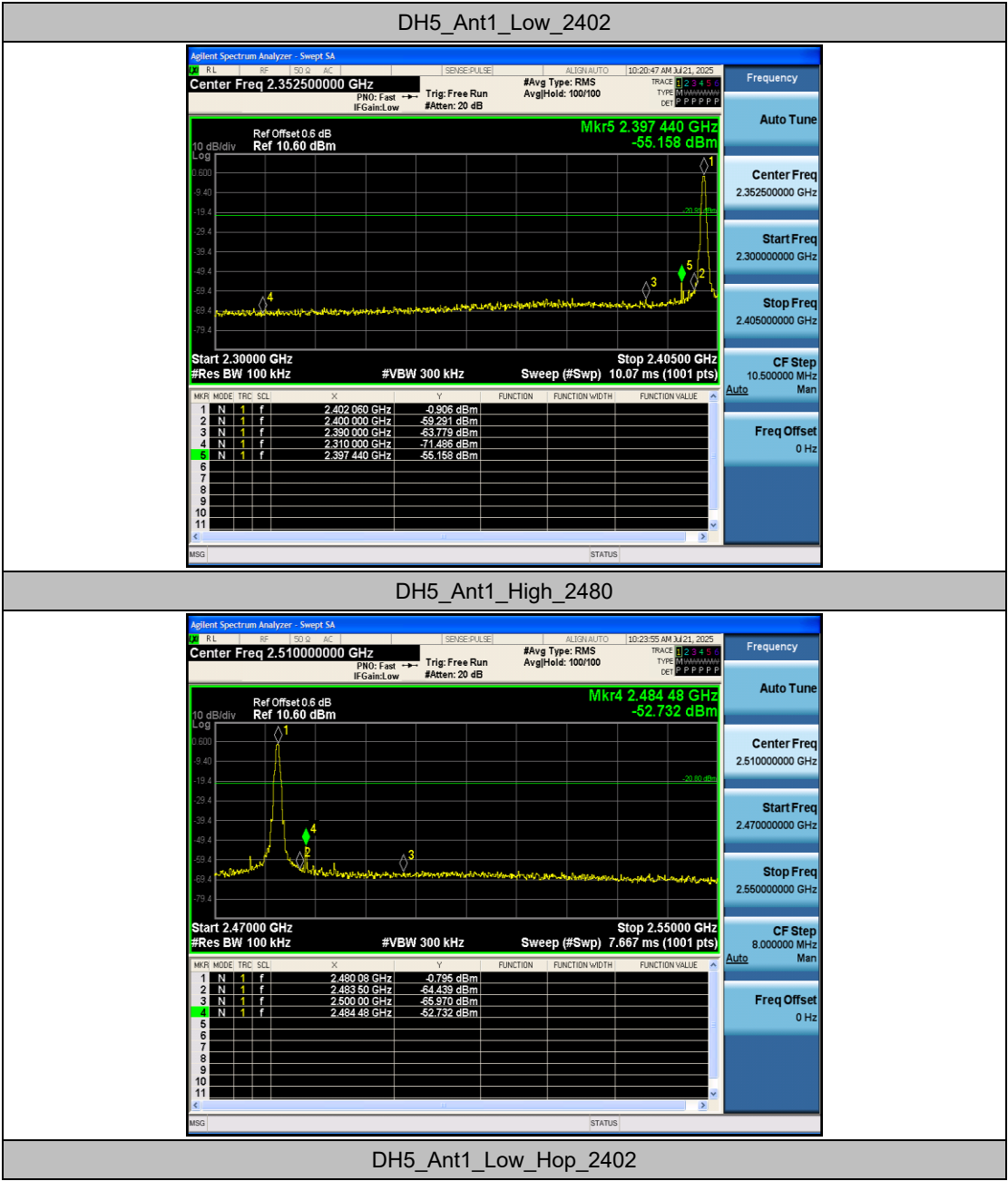


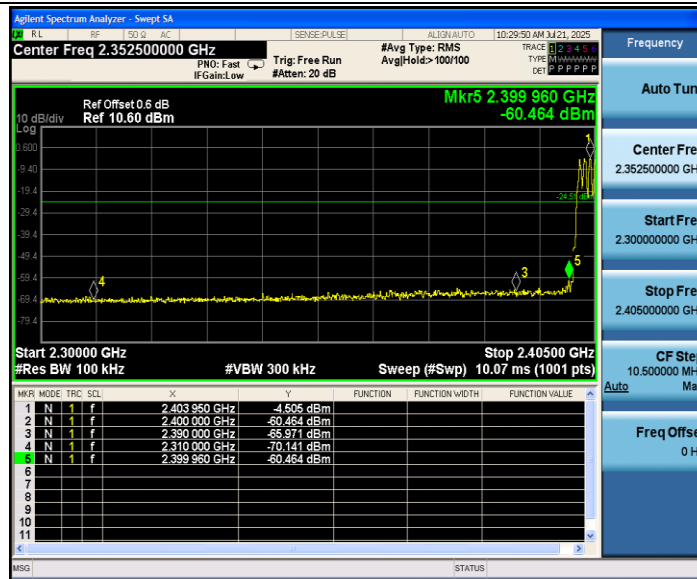
Appendix G: Band edge measurements

Test Result

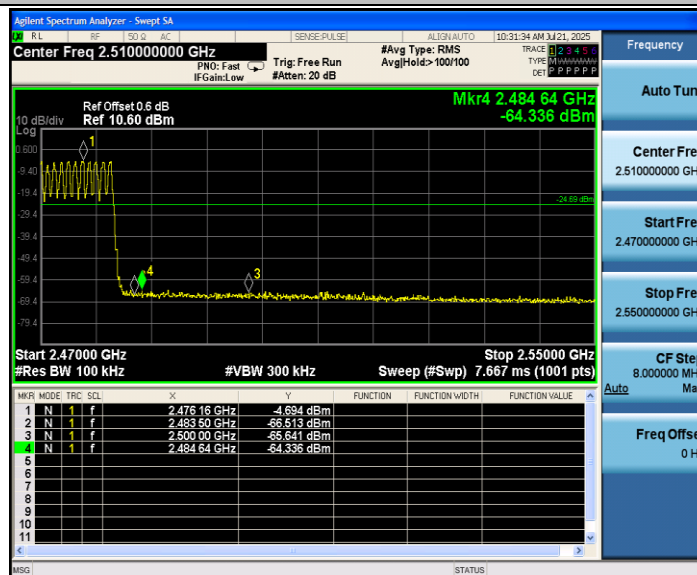
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.91	-55.16	≤-20.91	PASS
		High	2480	-0.80	-52.73	≤-20.8	PASS
		Low	Hop_2402	-4.51	-60.46	≤-24.51	PASS
		High	Hop_2480	-4.69	-64.34	≤-24.69	PASS
2DH5	Ant1	Low	2402	-5.54	-58.52	≤-25.54	PASS
		High	2480	-5.58	-63.98	≤-25.58	PASS
		Low	Hop_2402	-6.42	-61.09	≤-26.42	PASS
		High	Hop_2480	-3.83	-63.18	≤-23.83	PASS

Test Graphs

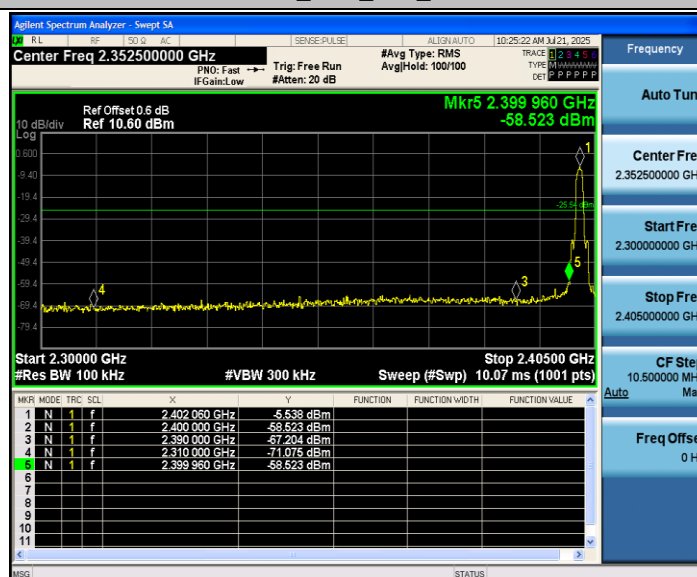




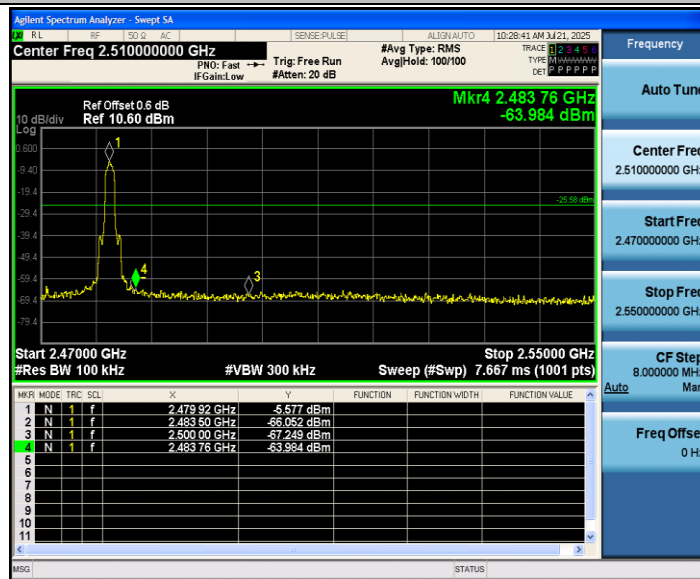
DH5_Ant1_High_Hop_2480



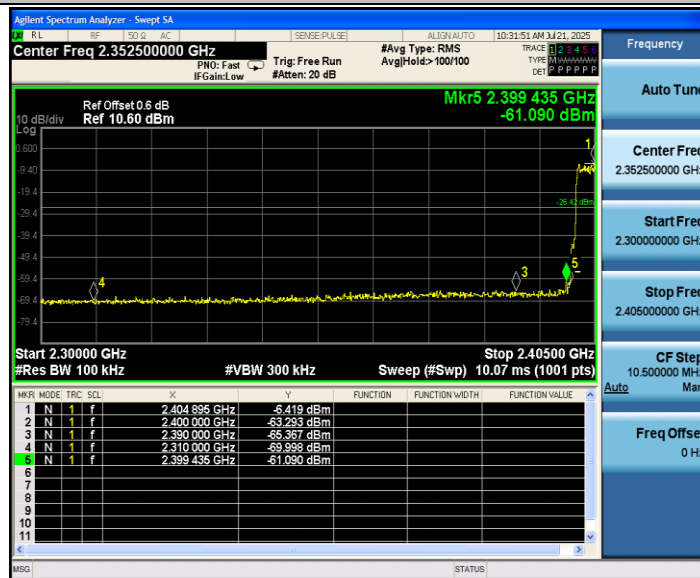
2DH5_Ant1_Low_2402



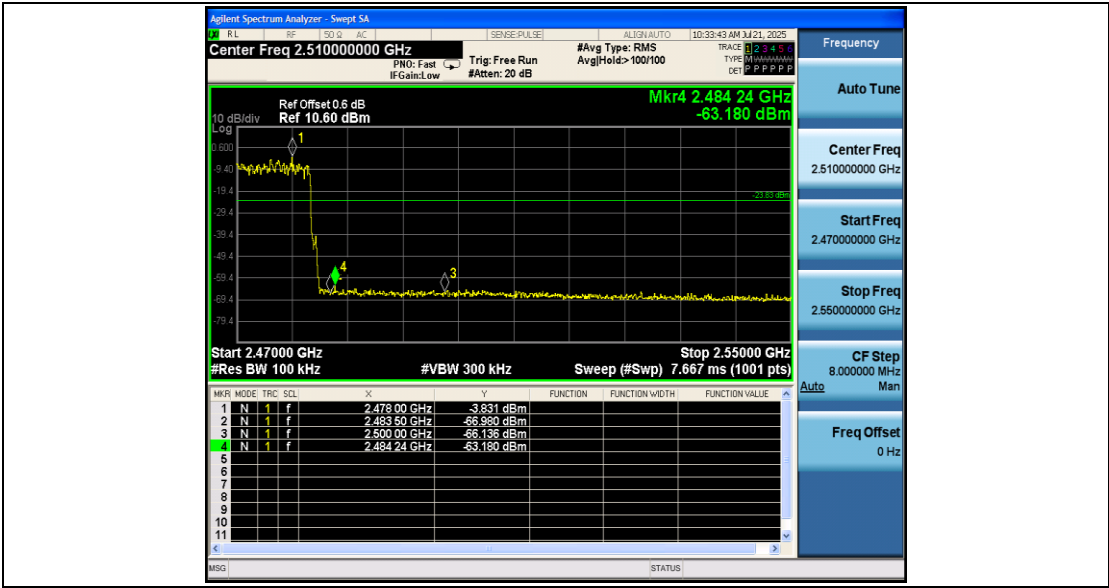
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

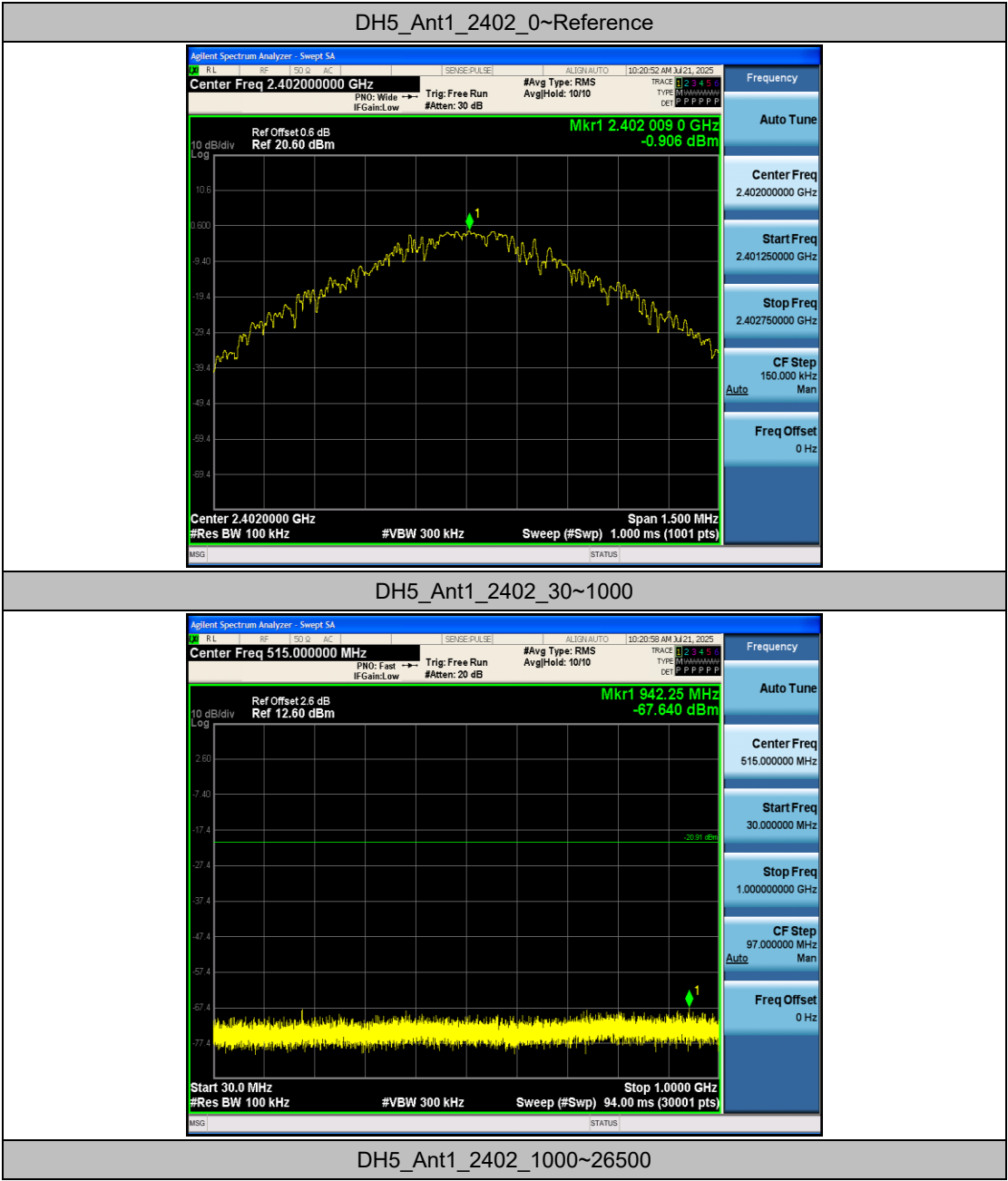


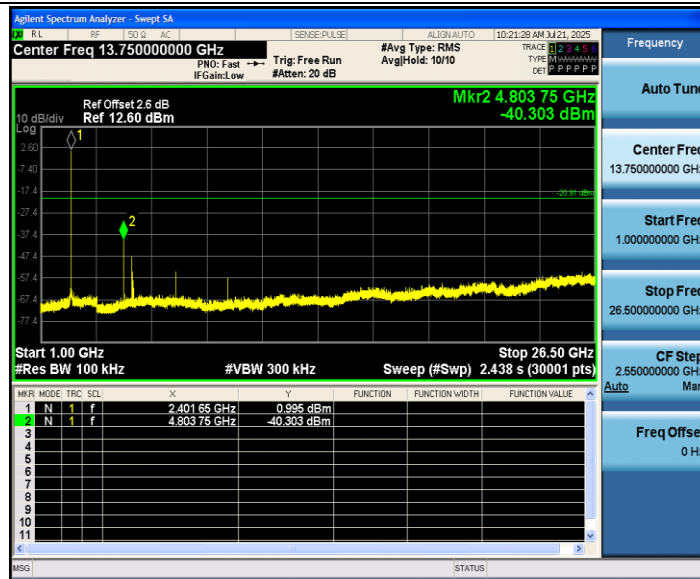
Appendix H: Conducted Spurious Emission

Test Result

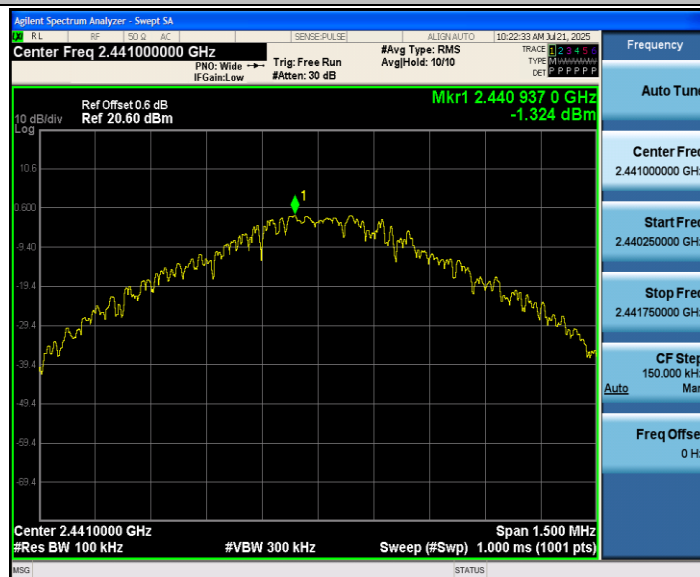
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-67.64	≤-20.91	PASS
			1000~26500	-0.91	-40.3	≤-20.91	PASS
		2441	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-67.96	≤-21.32	PASS
			1000~26500	-1.32	-43.51	≤-21.32	PASS
		2480	Reference	-0.93	-0.93	---	PASS
			30~1000	-0.93	-67.38	≤-20.93	PASS
			1000~26500	-0.93	-43.96	≤-20.93	PASS
2DH5	Ant1	2402	Reference	-4.42	-4.42	---	PASS
			30~1000	-4.42	-67.45	≤-24.42	PASS
			1000~26500	-4.42	-45.57	≤-24.42	PASS
		2441	Reference	-6.82	-6.82	---	PASS
			30~1000	-6.82	-67.23	≤-26.82	PASS
			1000~26500	-6.82	-48.28	≤-26.82	PASS
		2480	Reference	-6.42	-6.42	---	PASS
			30~1000	-6.42	-67.69	≤-26.42	PASS
			1000~26500	-6.42	-48.48	≤-26.42	PASS

Test Graphs

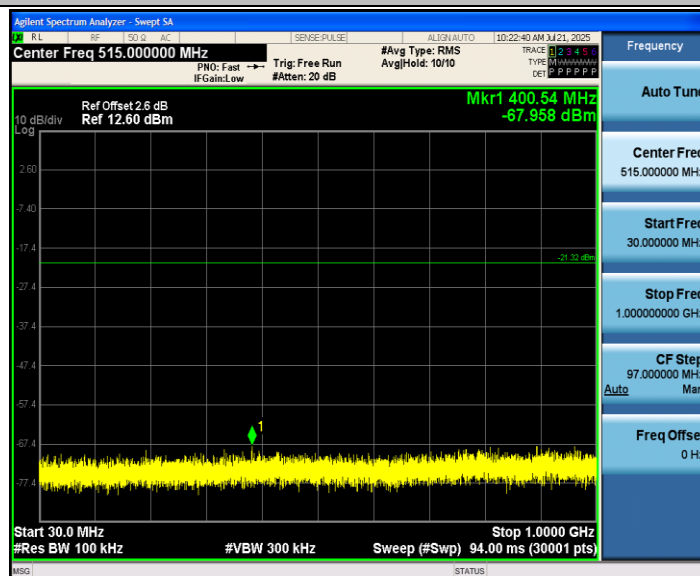




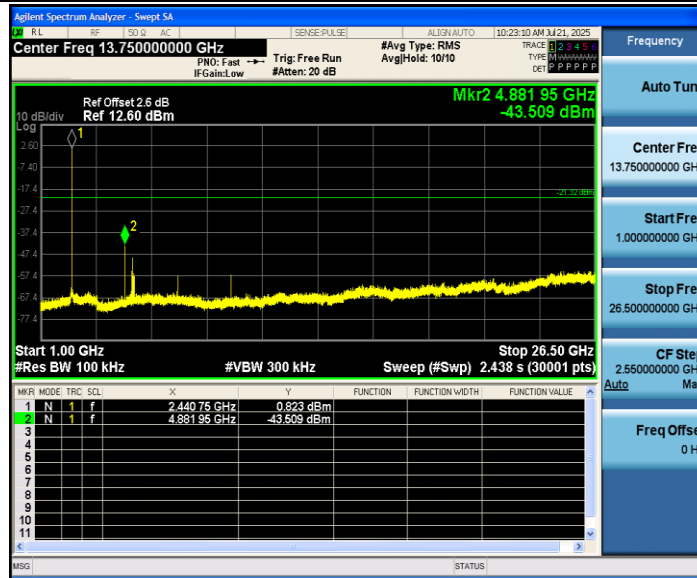
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



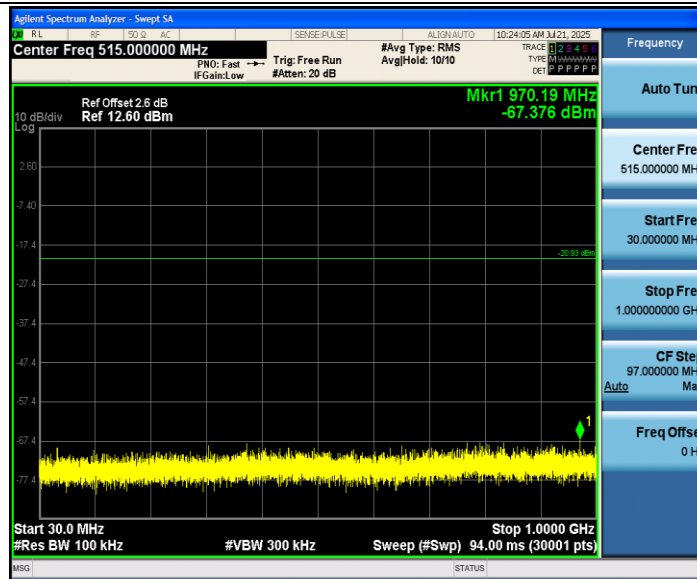
DH5_Ant1_2441_1000~26500



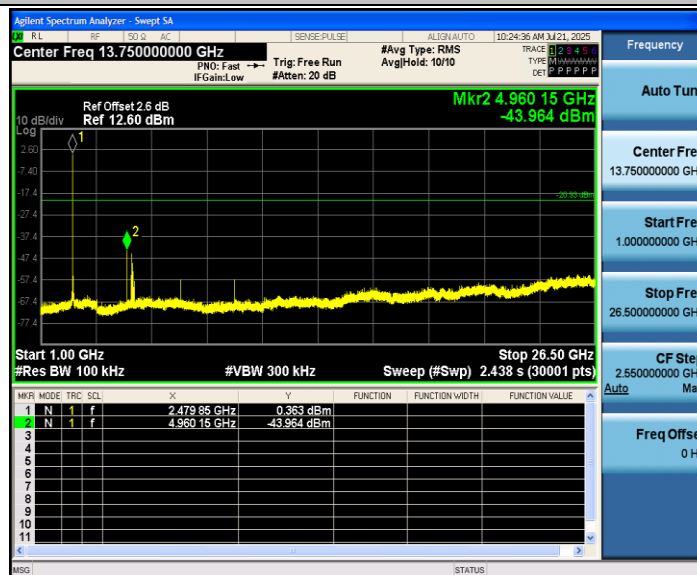
DH5_Ant1_2480_0~Reference



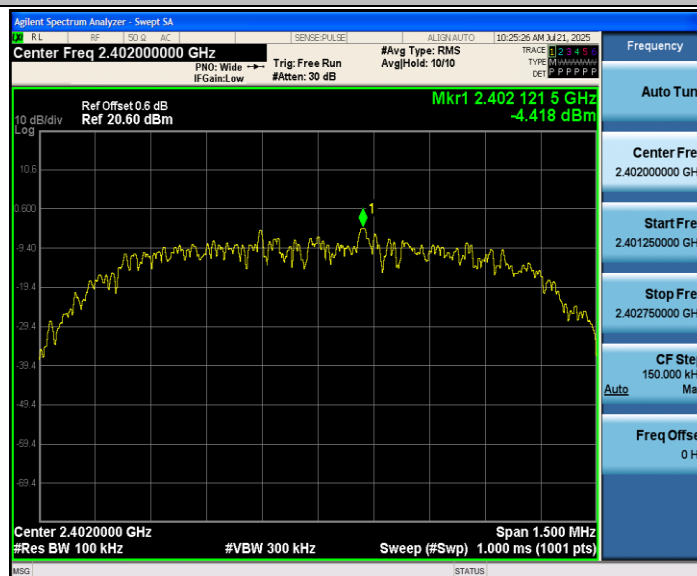
DH5_Ant1_2480_30~1000



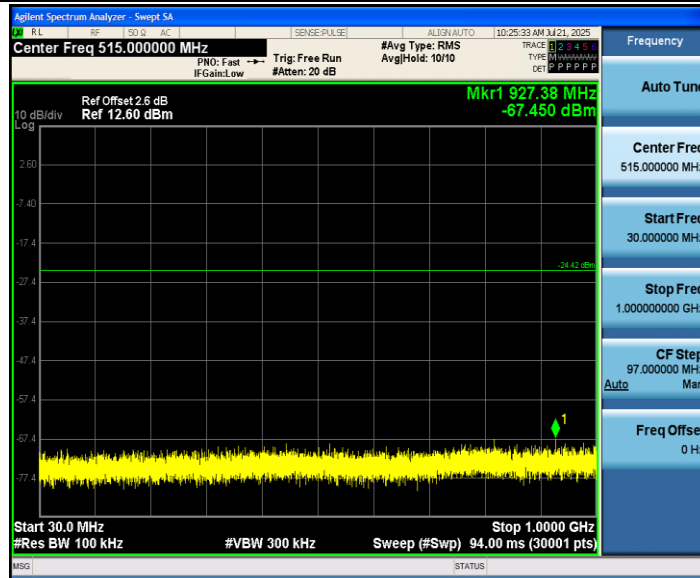
DH5_Ant1_2480_1000~26500



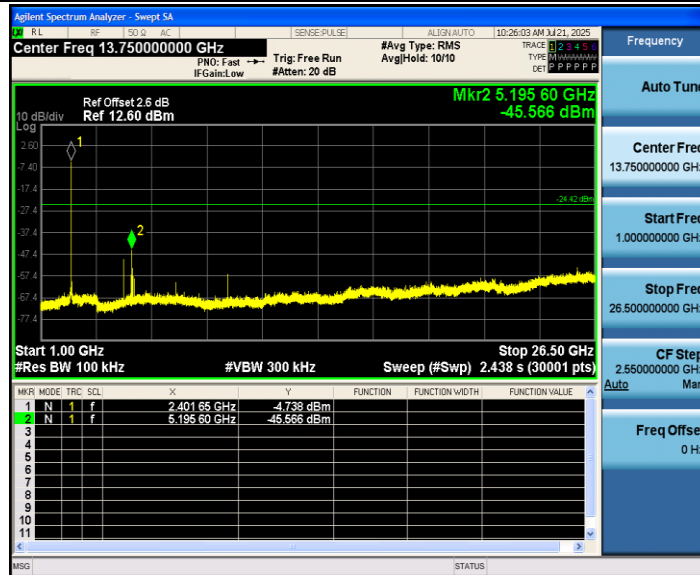
2DH5_Ant1_2402_0~Reference



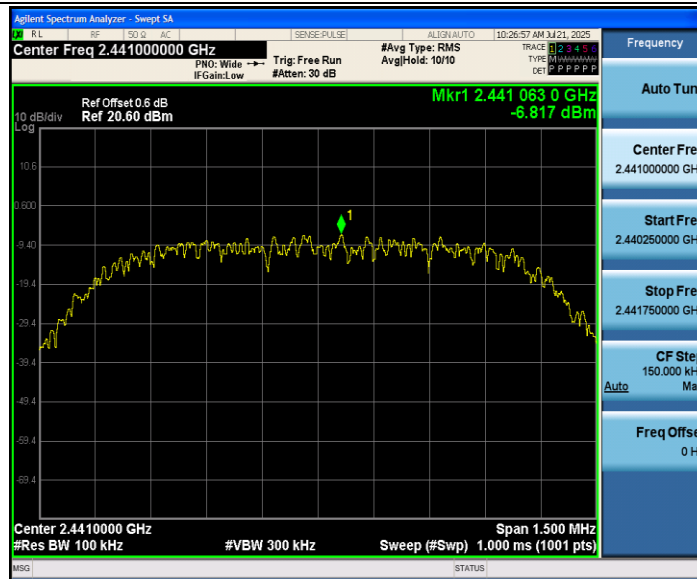
2DH5_Ant1_2402_30~1000



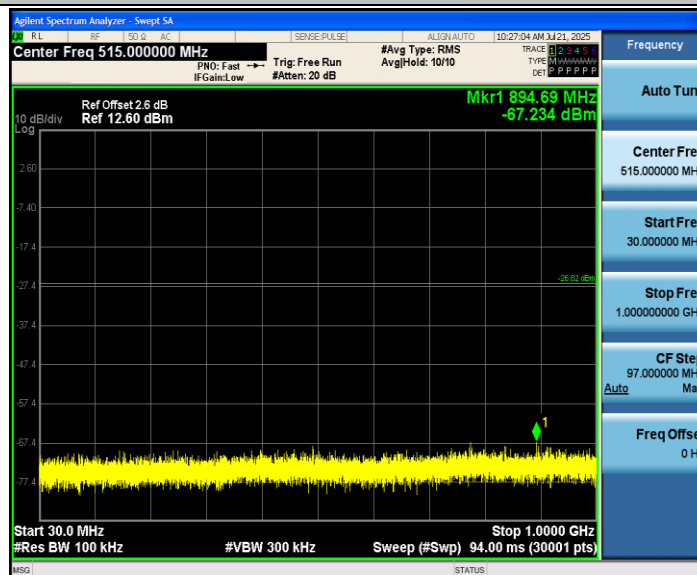
2DH5_Ant1_2402_1000~26500



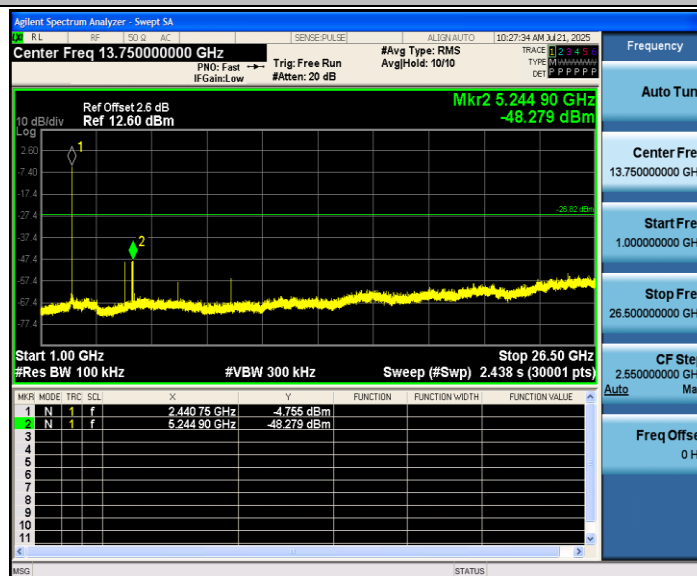
2DH5_Ant1_2441_0~Reference



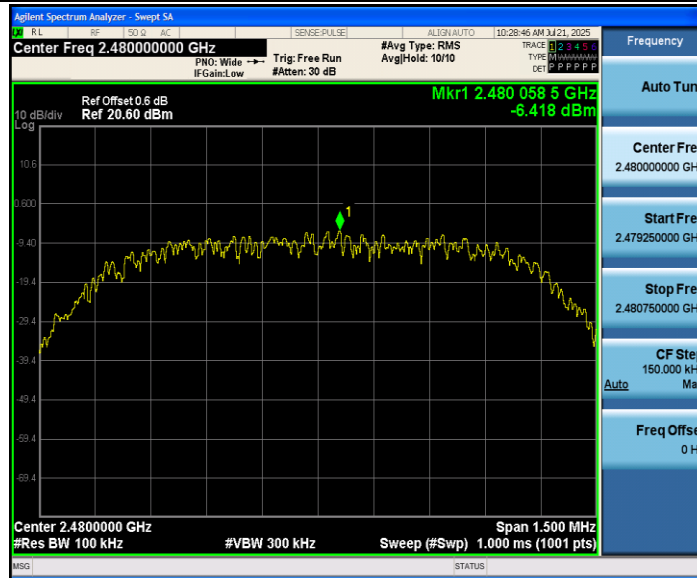
2DH5_Ant1_2441_30~1000



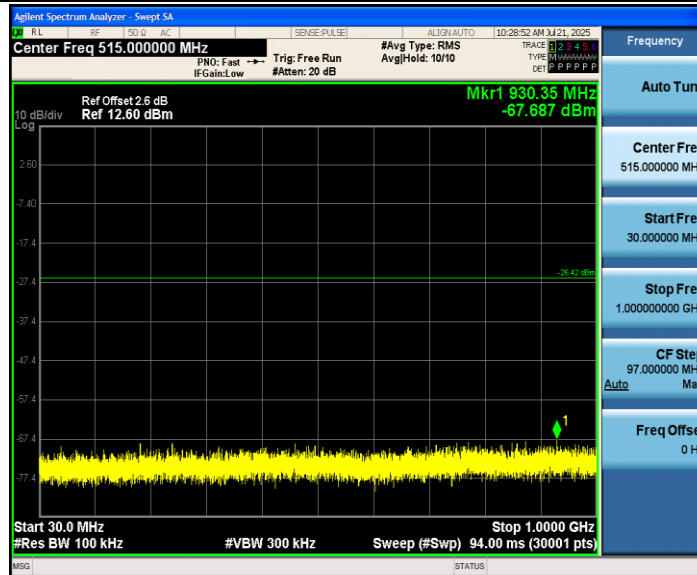
2DH5_Ant1_2441_1000~26500



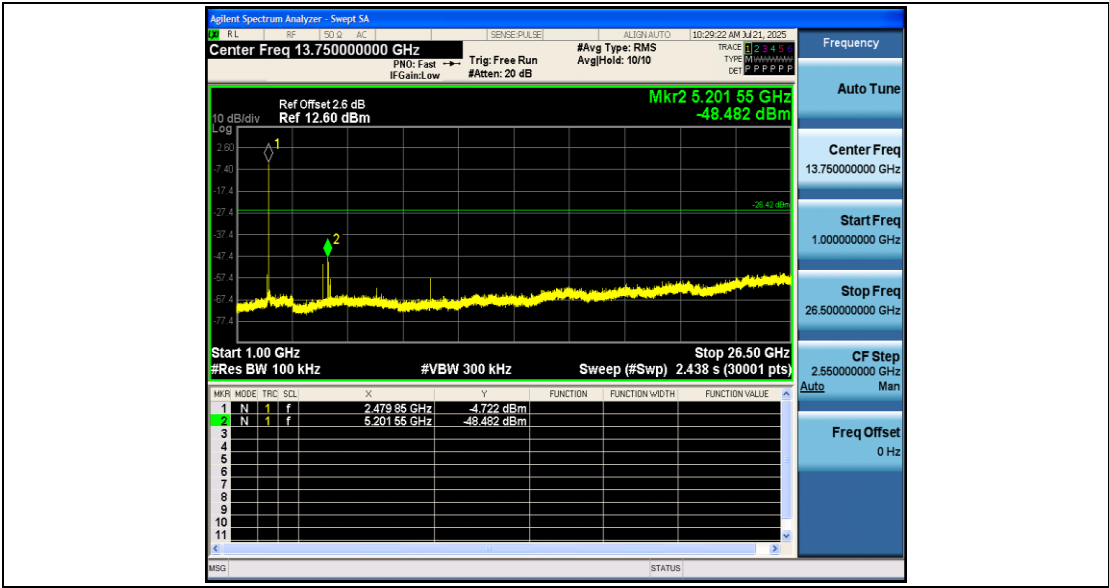
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



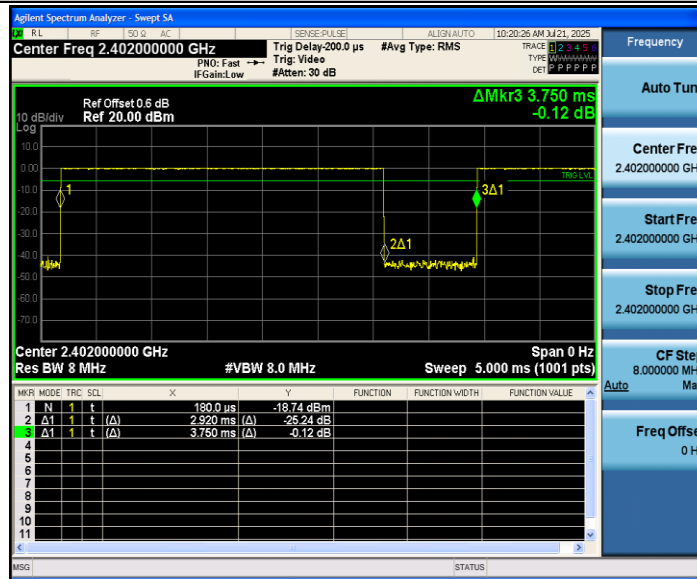
Appendix I: Duty Cycle

Test Result

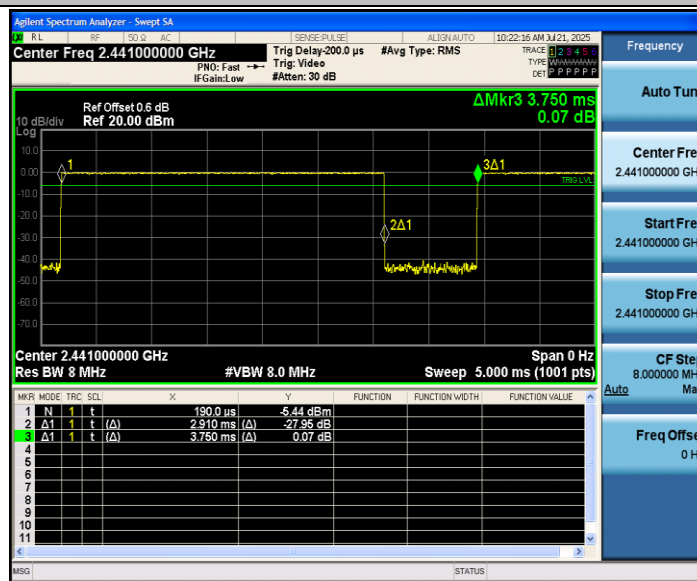
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09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

Test Graphs

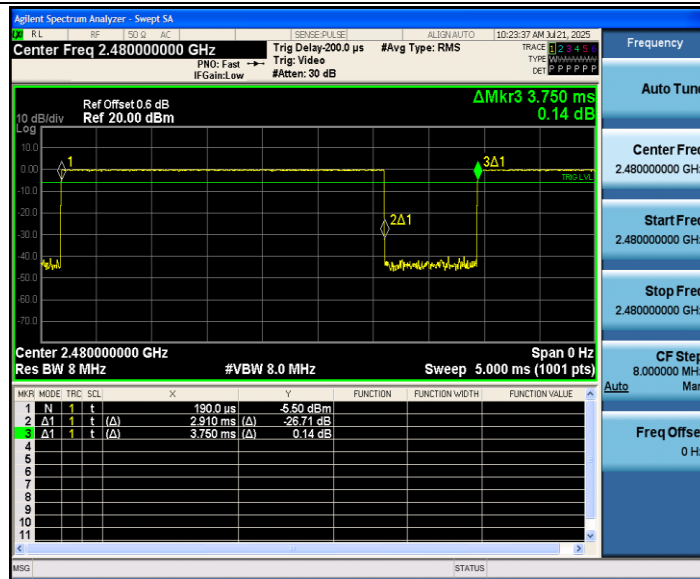
DH5_Ant1_2402



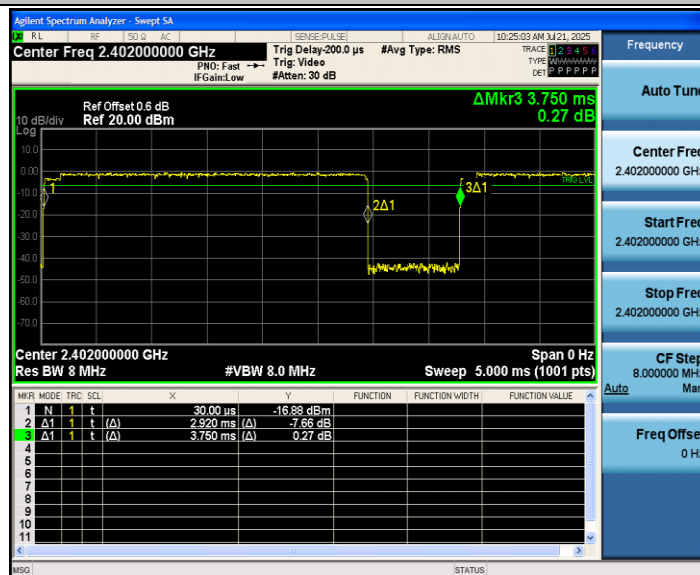
DH5_Ant1_2441



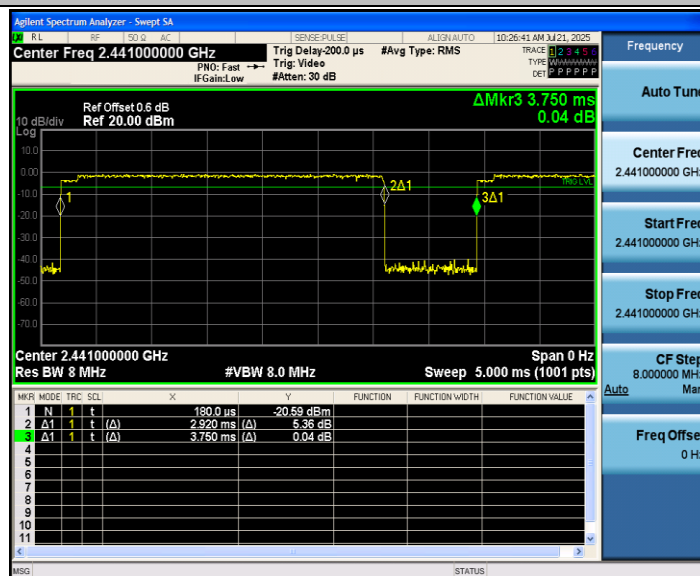
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

