

FCC Appendix RF Test Data for BT

FCC ID : 2BS2L-K3

Company : Guangzhou Lingyun Technology CO.,Ltd

EUT : Smart sports glasses

Model Number : K3

Report No. : CTA25110702001

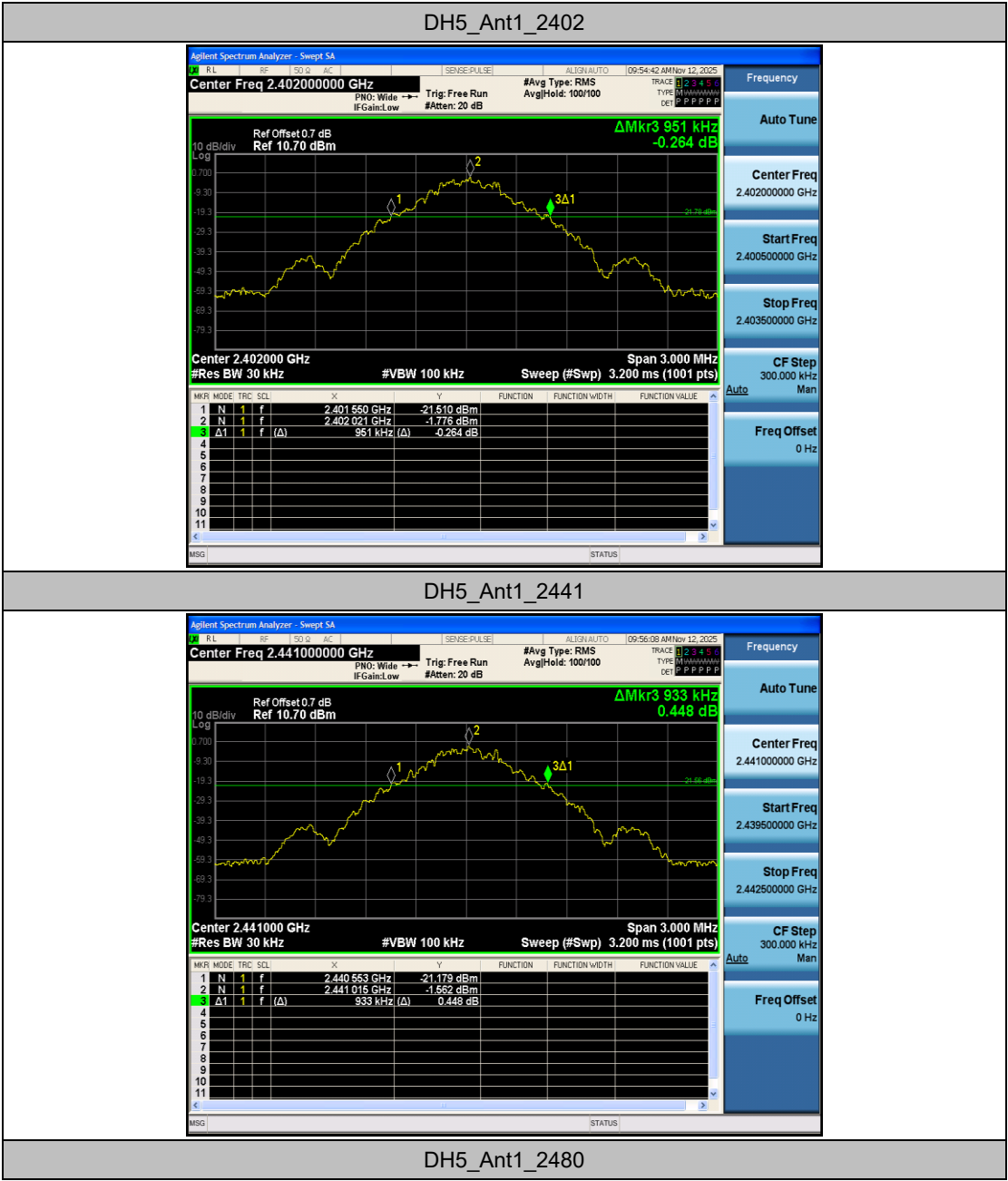
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.550	2402.501	---	---
		2441	0.933	2440.553	2441.486	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.326	2401.346	2402.672	---	---
		2441	1.332	2440.346	2441.678	---	---
		2480	1.275	2479.385	2480.660	---	---

Test Graphs





2DHS_Ant1_2402



2DHS_Ant1_2441



2DH5_Ant1_2480

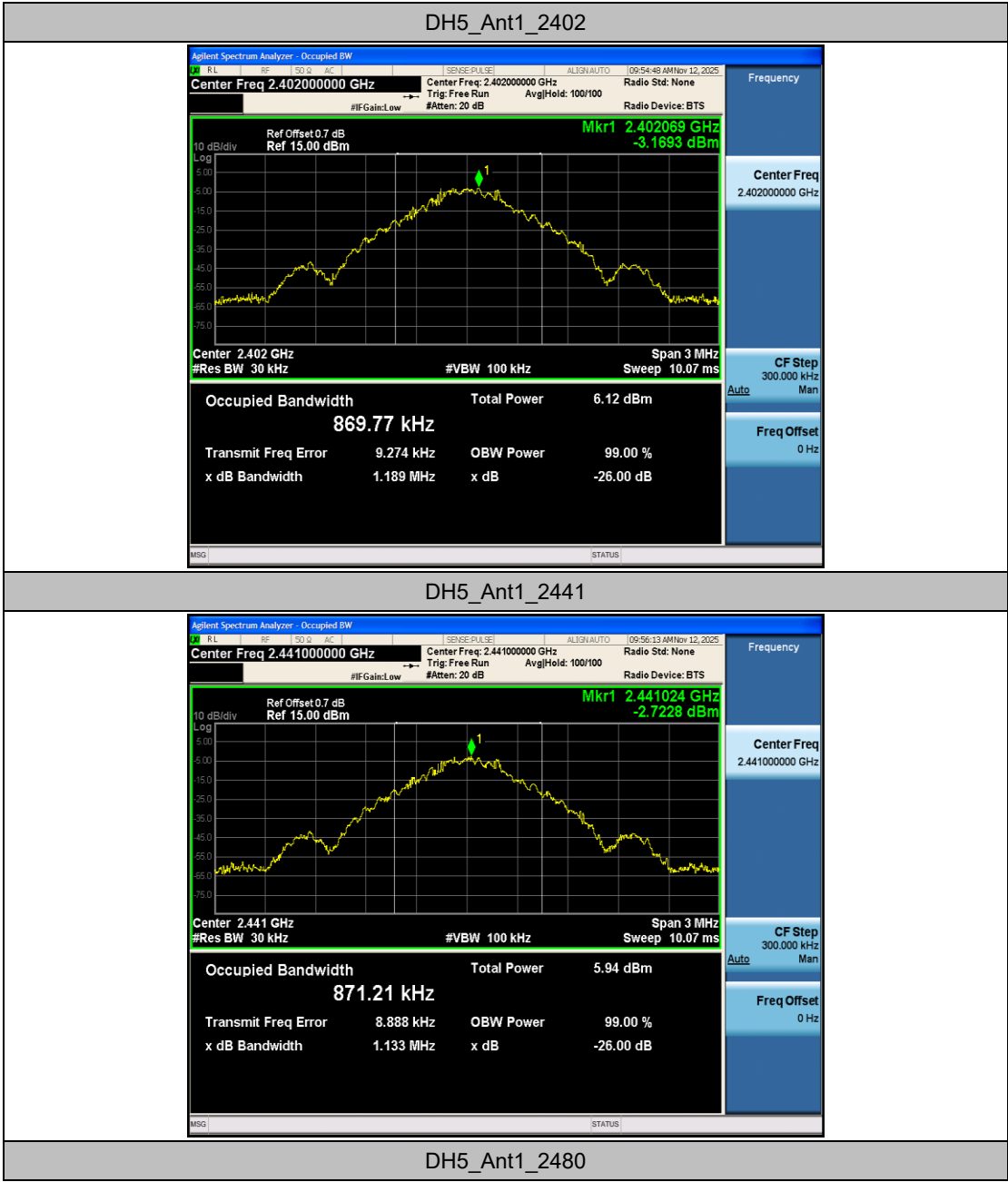


Appendix B: Occupied Channel Bandwidth

Test Result

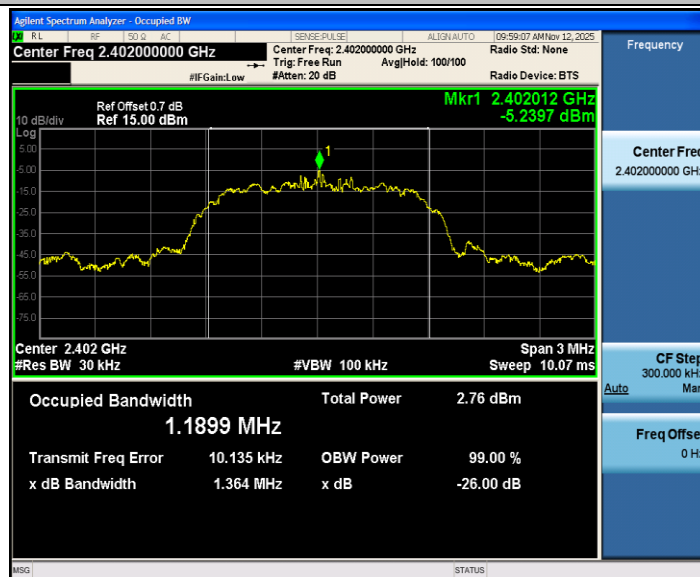
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86977	2401.5744	2402.4442	---	---
		2441	0.87121	2440.5733	2441.4445	---	---
		2480	0.86977	2479.5756	2480.4454	---	---
2DH5	Ant1	2402	1.1899	2401.4152	2402.6051	---	---
		2441	1.1871	2440.4165	2441.6036	---	---
		2480	1.1917	2479.4158	2480.6075	---	---

Test Graphs





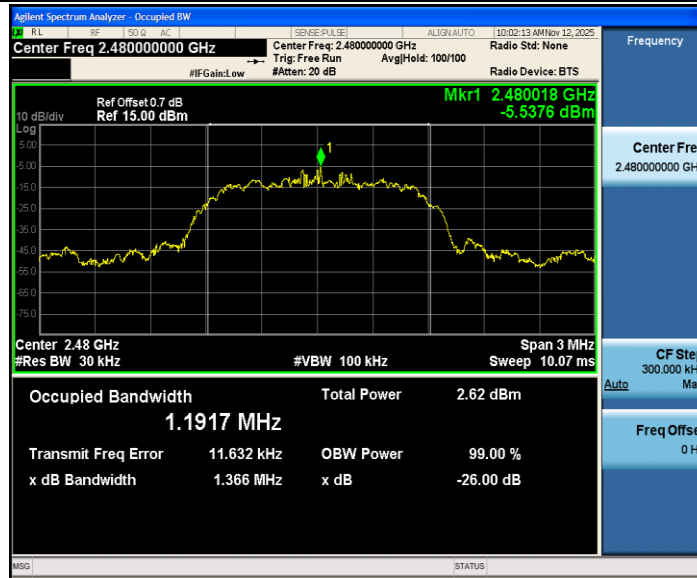
2DH5_Ant1_2402



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	0.15	≤20.97	PASS
		2441	0.11	≤20.97	PASS
		2480	0.13	≤20.97	PASS
2DH5	Ant1	2402	-0.69	≤20.97	PASS
		2441	-0.71	≤20.97	PASS
		2480	-0.72	≤20.97	PASS

Right:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.19	≤20.97	PASS
		2441	0.24	≤20.97	PASS
		2480	0.19	≤20.97	PASS
2DH5	Ant1	2402	-0.45	≤20.97	PASS
		2441	-0.39	≤20.97	PASS
		2480	-0.28	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.06	≥ 0.951	PASS
2DH5	Ant1	Hop	1.104	≥ 0.888	PASS

Test Graphs

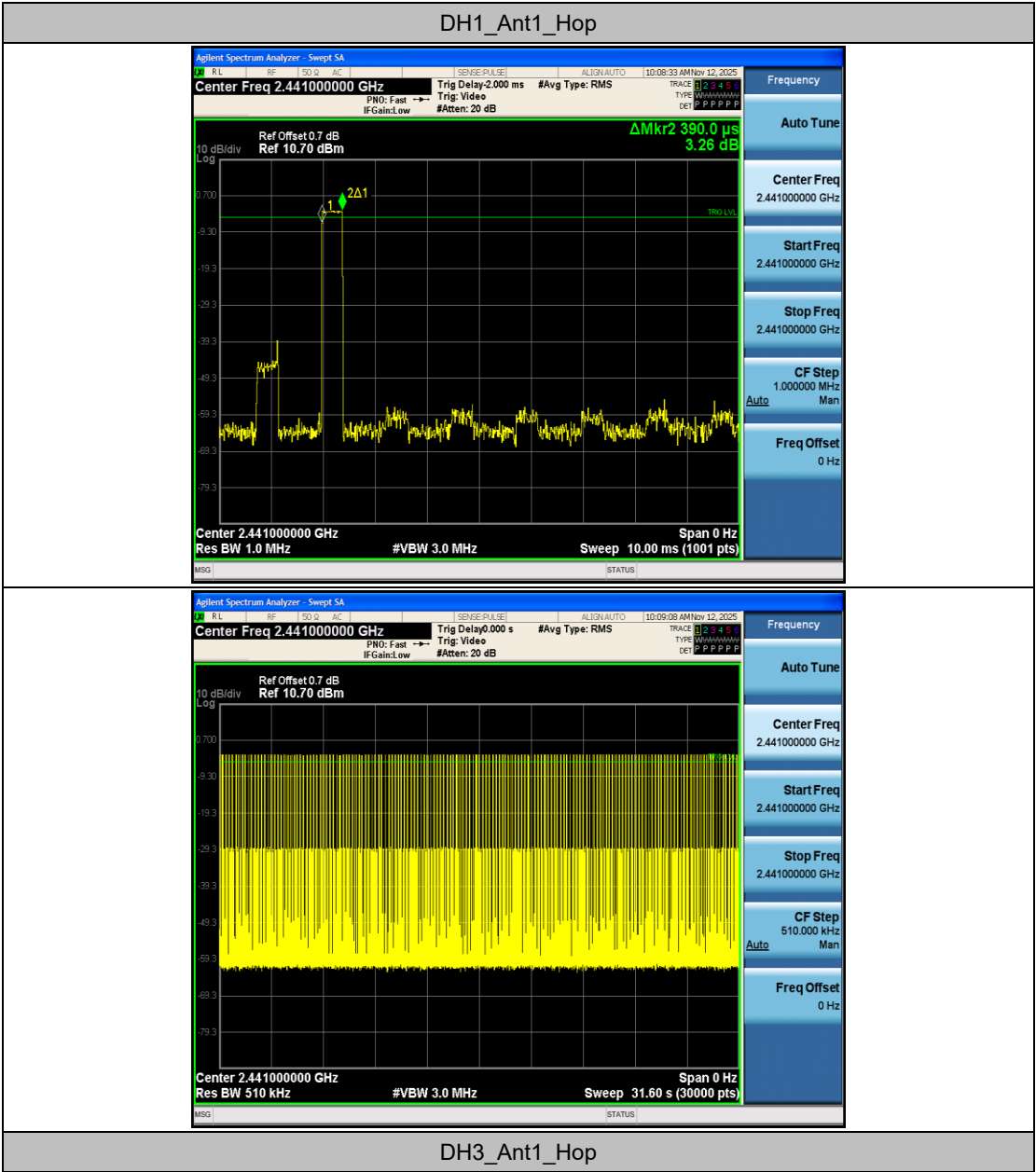


Appendix E: Time of occupancy

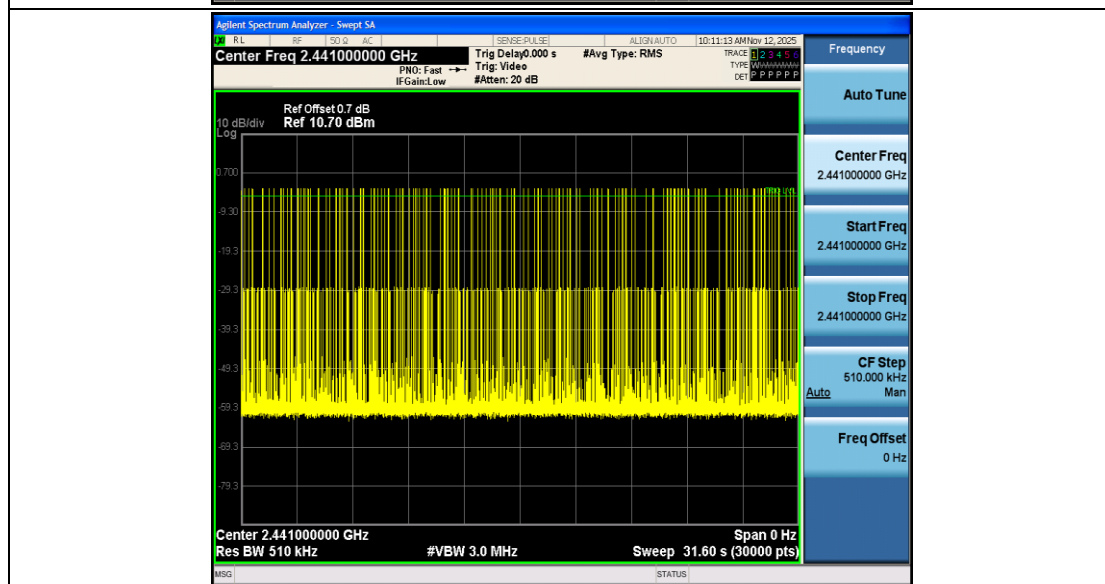
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
DH3	Ant1	Hop	1.640	158	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.890	99	0.286	≤0.4	PASS
2DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS

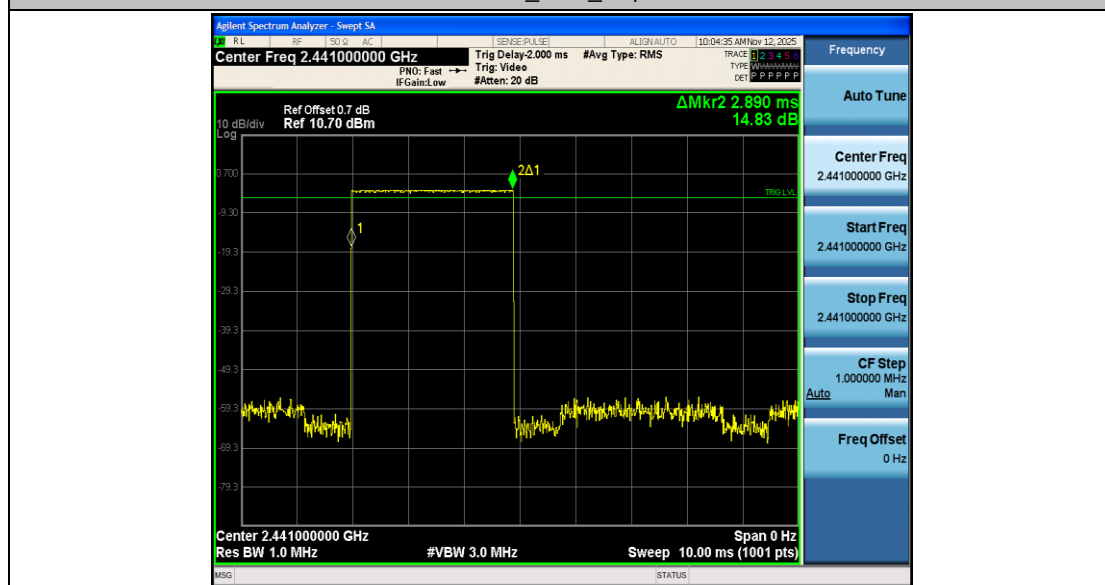
Test Graphs

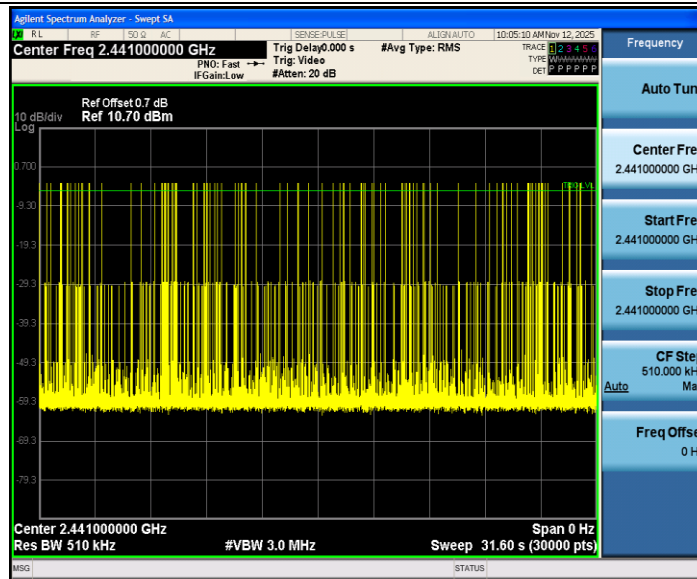


DH3_Ant1_Hop

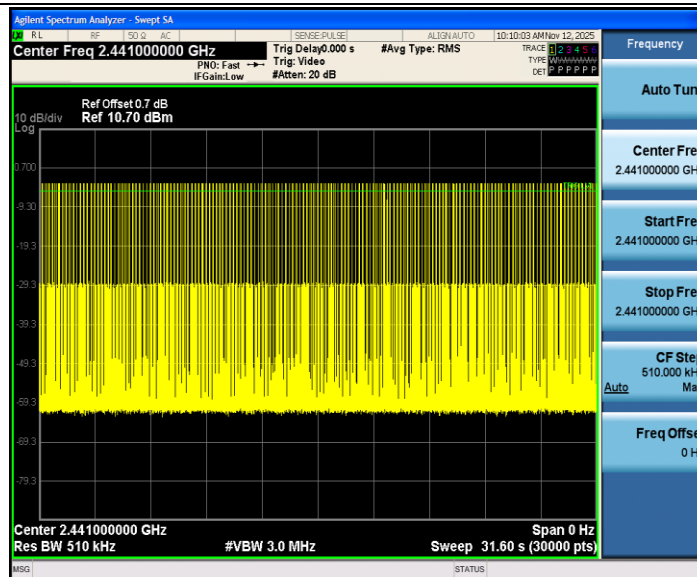
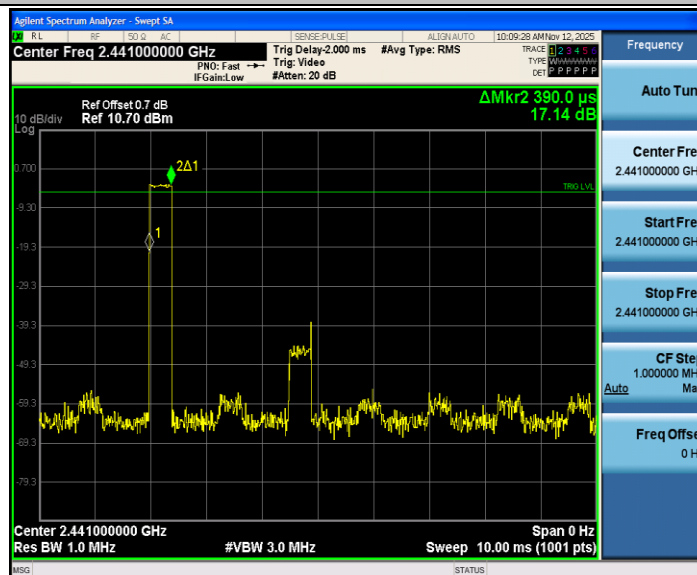


DH5_Ant1_Hop

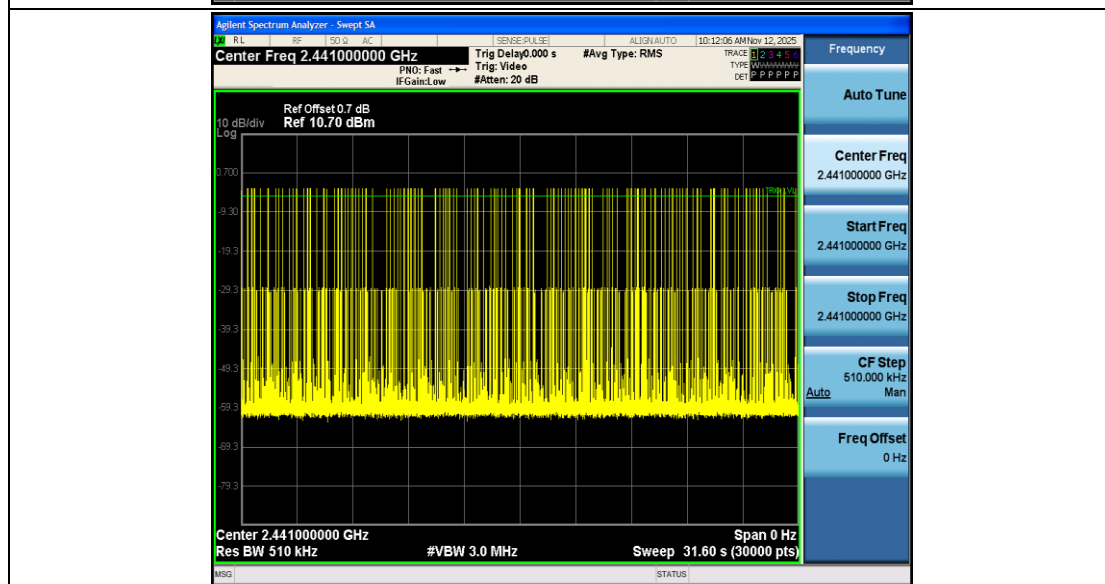




2DH1_Ant1_Hop

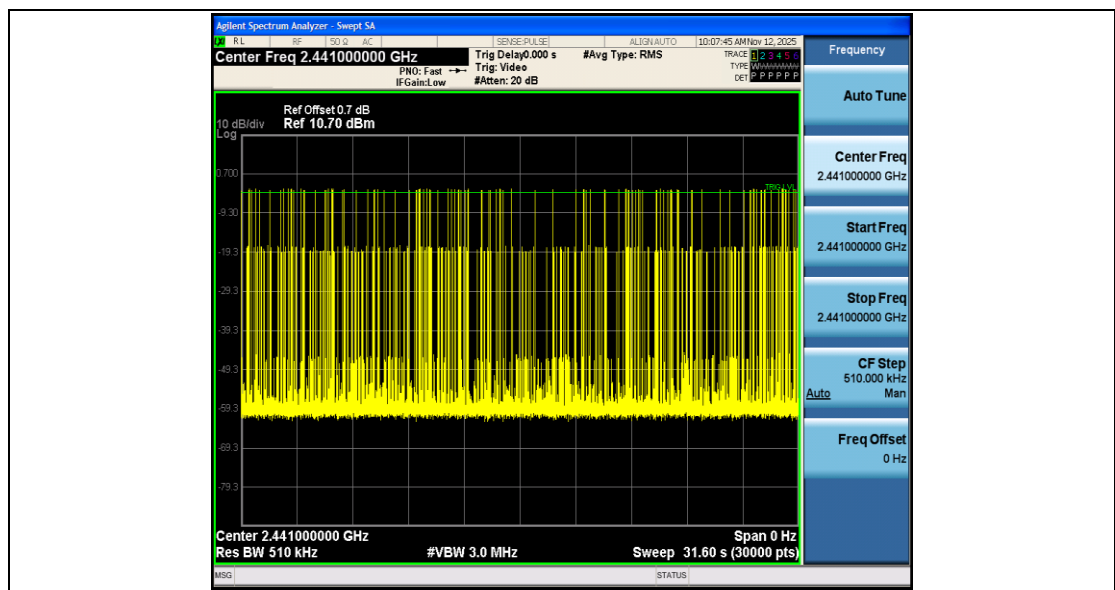


2DH3_Ant1_Hop



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

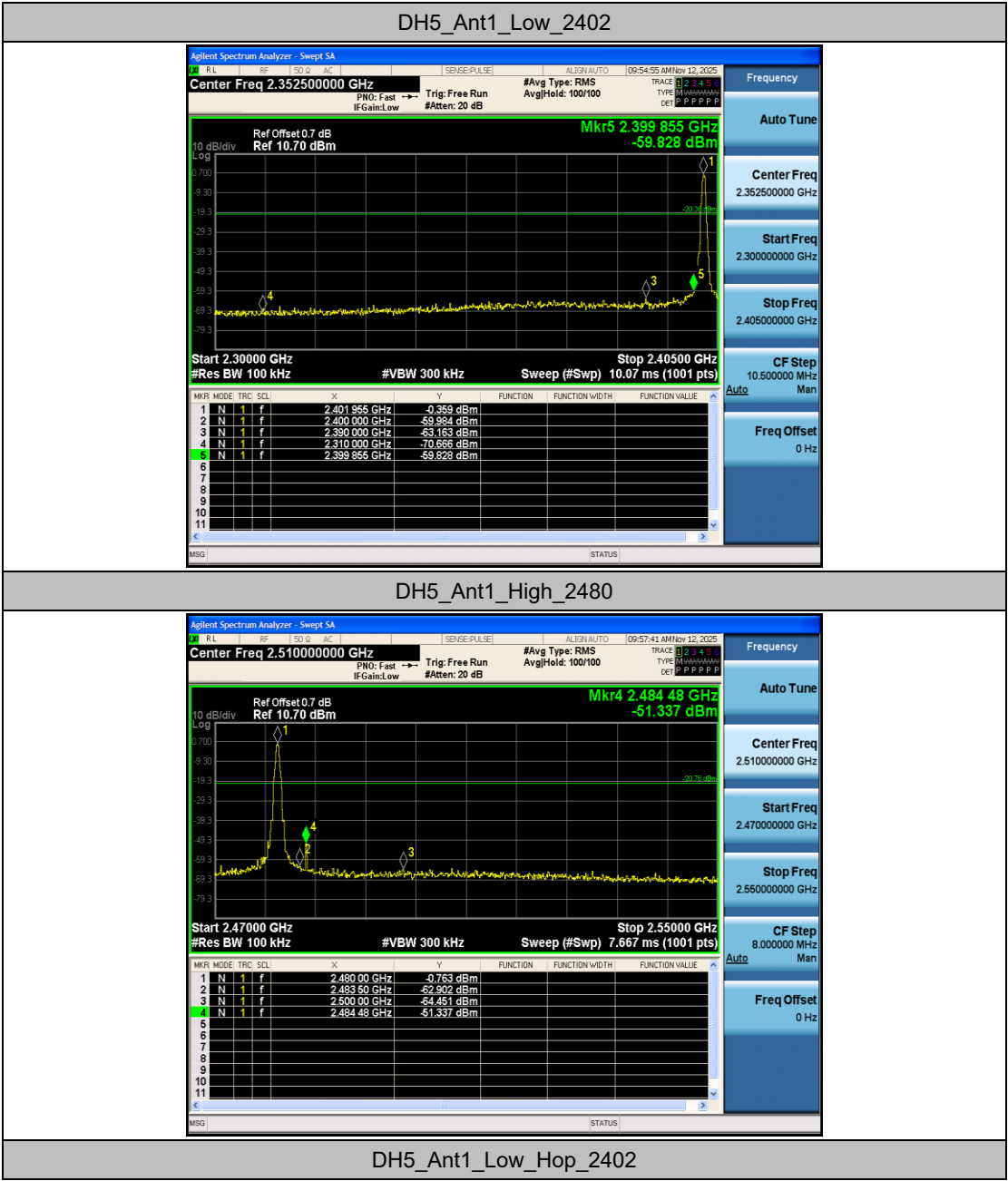


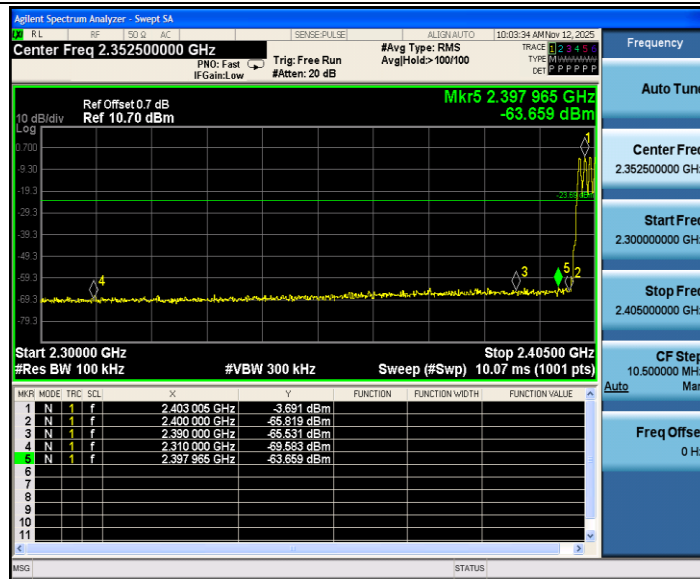
Appendix G: Band edge measurements

Test Result

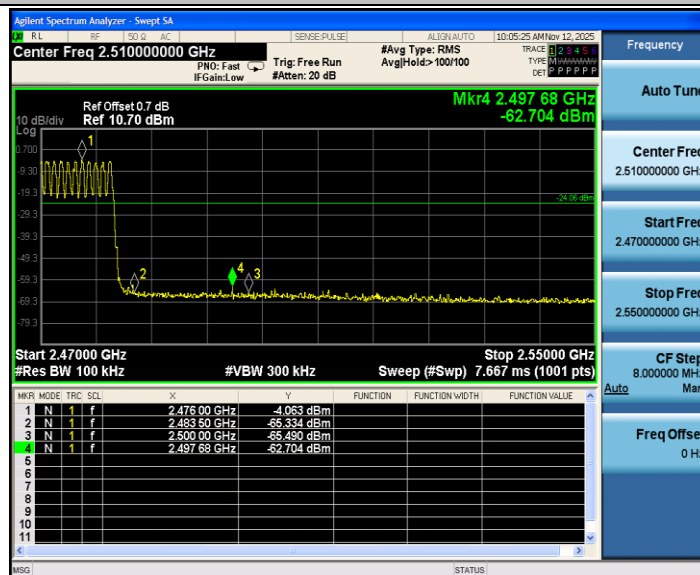
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.36	-59.83	≤-20.36	PASS
		High	2480	-0.76	-51.34	≤-20.76	PASS
		Low	Hop_2402	-3.69	-63.66	≤-23.69	PASS
		High	Hop_2480	-4.06	-62.7	≤-24.06	PASS
2DH5	Ant1	Low	2402	-4.33	-59.18	≤-24.33	PASS
		High	2480	-3.57	-54.82	≤-23.57	PASS
		Low	Hop_2402	-5.10	-61.38	≤-25.1	PASS
		High	Hop_2480	-4.51	-62.98	≤-24.51	PASS

Test Graphs

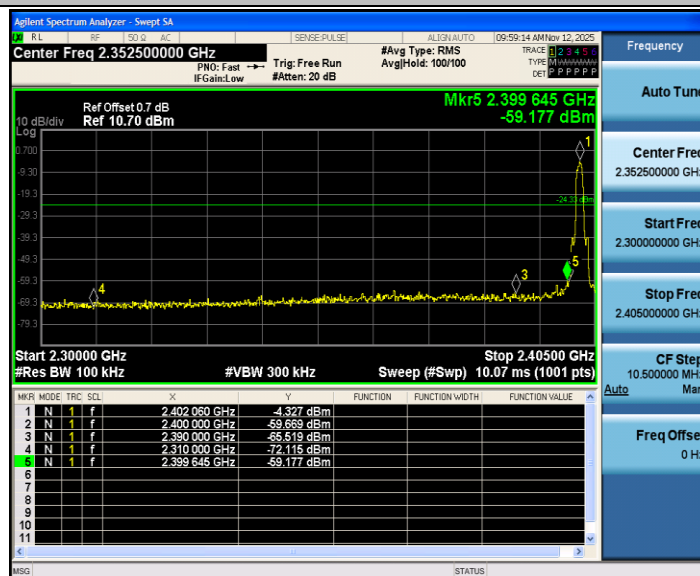




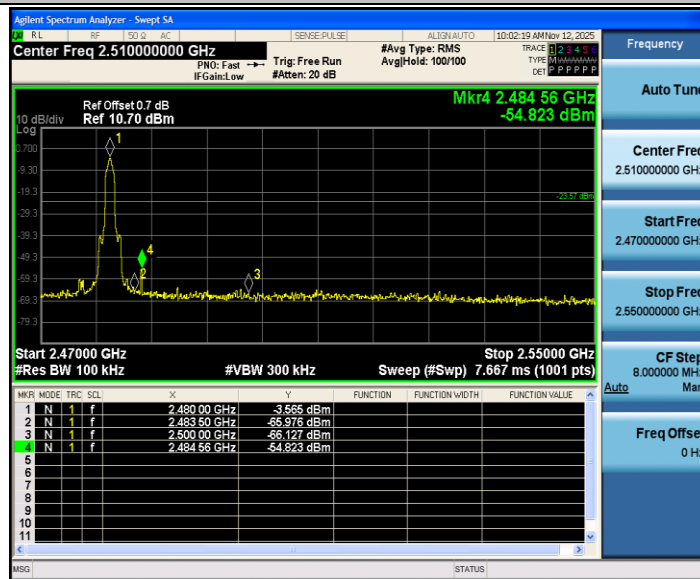
DH5_Ant1_High_Hop_2480



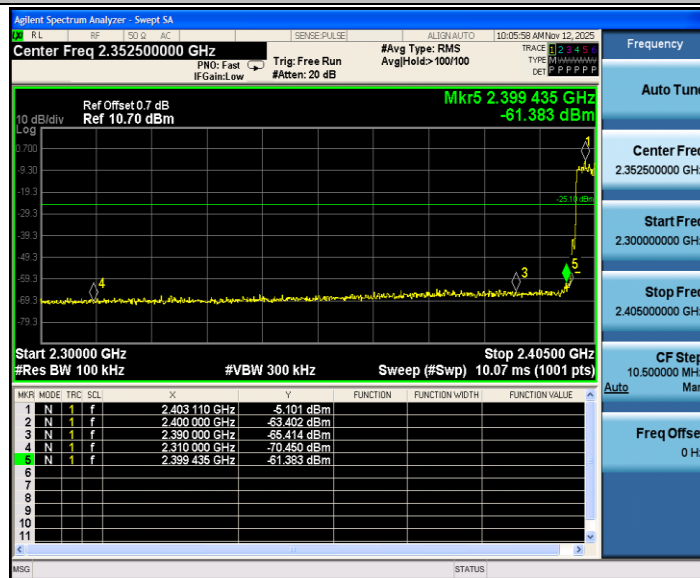
2DH5_Ant1_Low_2402



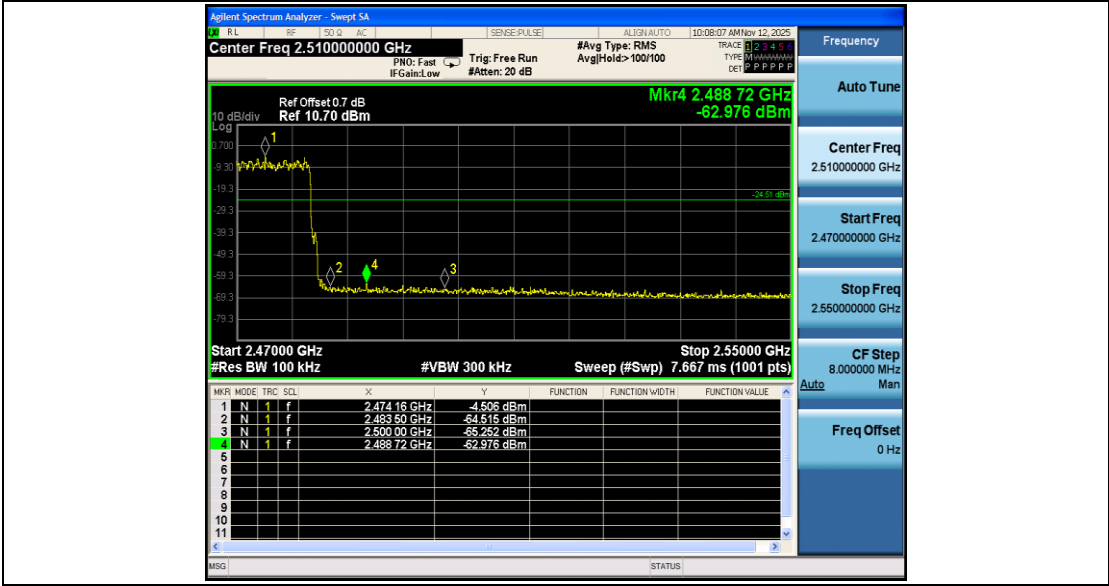
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

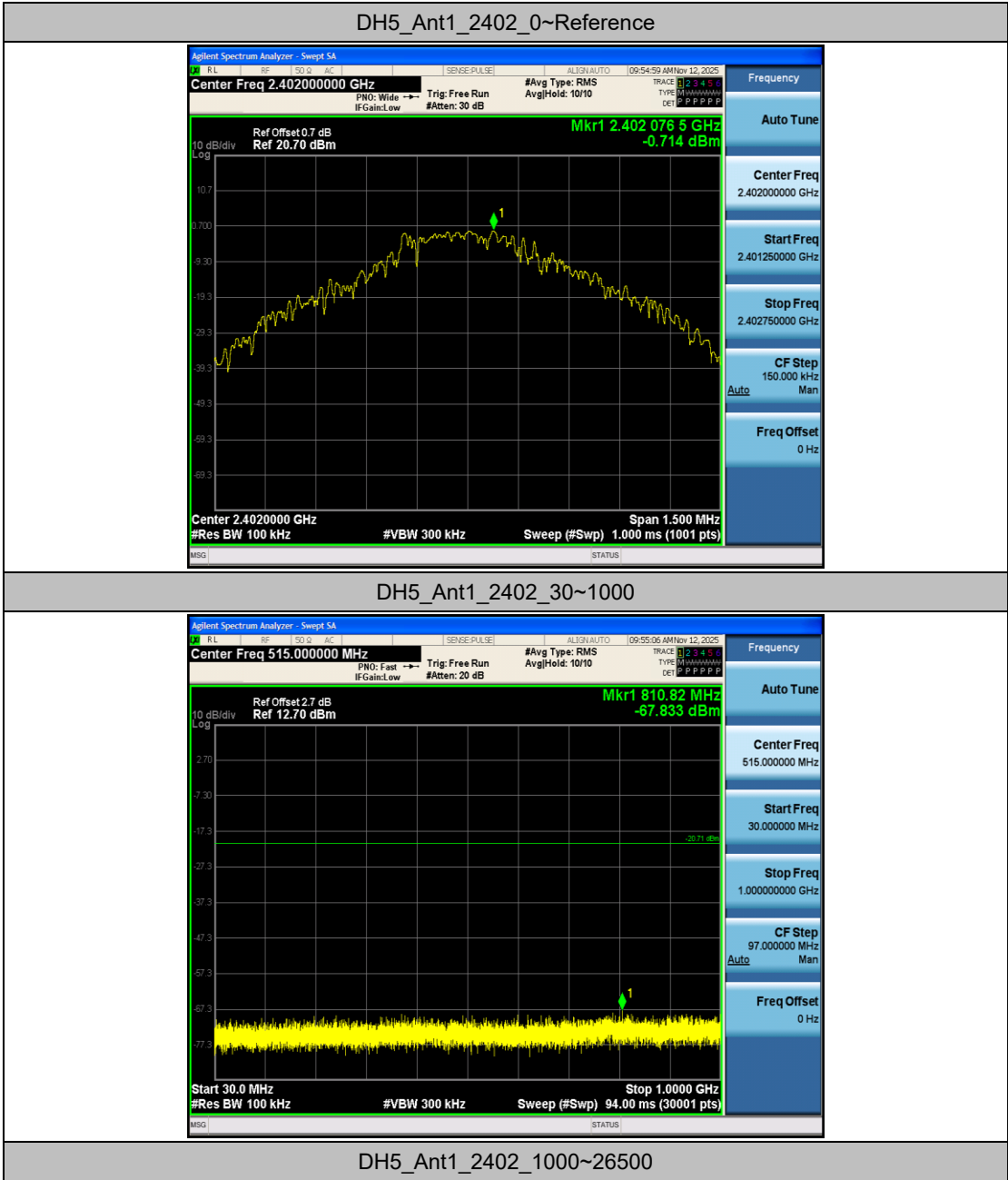


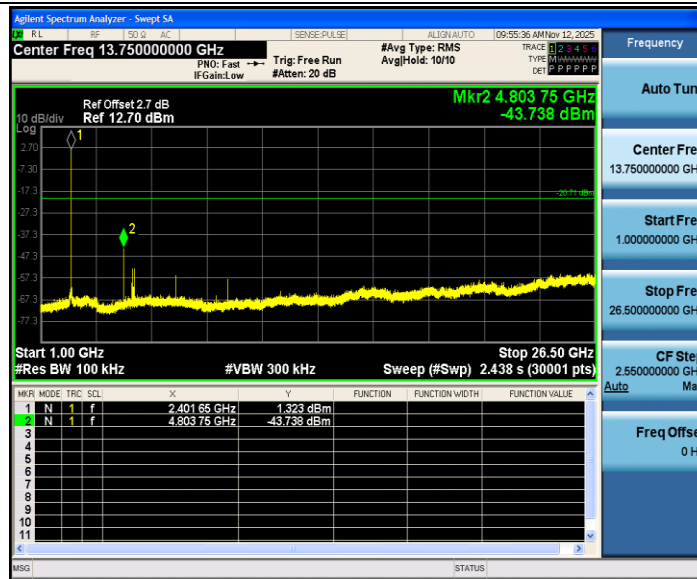
Appendix H: Conducted Spurious Emission

Test Result

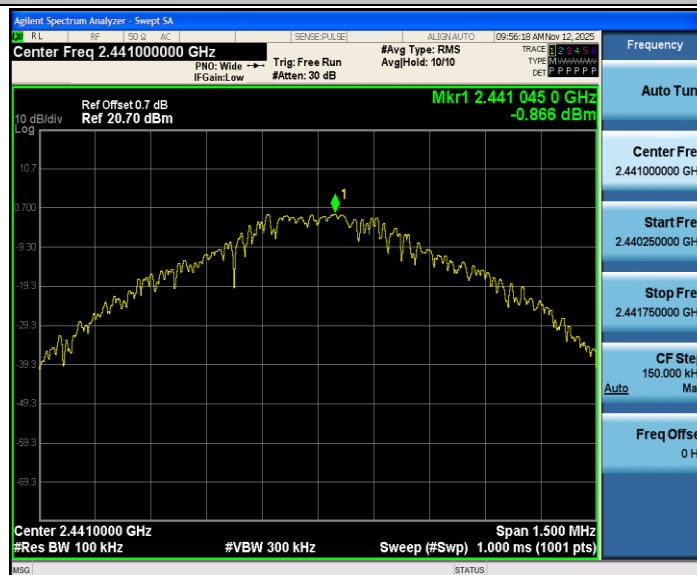
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-67.83	≤-20.71	PASS
			1000~26500	-0.71	-43.74	≤-20.71	PASS
		2441	Reference	-0.87	-0.87	---	PASS
			30~1000	-0.87	-67.23	≤-20.87	PASS
			1000~26500	-0.87	-43.38	≤-20.87	PASS
		2480	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-68.13	≤-21.04	PASS
			1000~26500	-1.04	-43.5	≤-21.04	PASS
2DH5	Ant1	2402	Reference	-4.69	-4.69	---	PASS
			30~1000	-4.69	-67.87	≤-24.69	PASS
			1000~26500	-4.69	-49.42	≤-24.69	PASS
		2441	Reference	-5.34	-5.34	---	PASS
			30~1000	-5.34	-68.11	≤-25.34	PASS
			1000~26500	-5.34	-48.61	≤-25.34	PASS
		2480	Reference	-5.30	-5.30	---	PASS
			30~1000	-5.30	-63.05	≤-25.3	PASS
			1000~26500	-5.30	-51.21	≤-25.3	PASS

Test Graphs

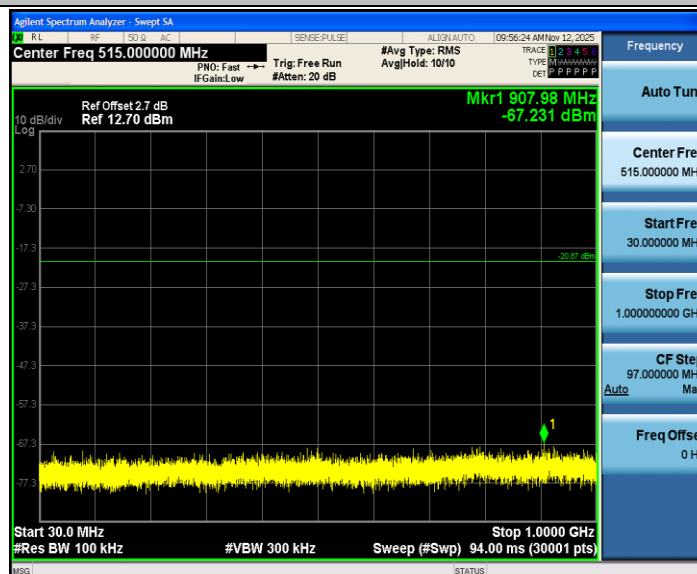




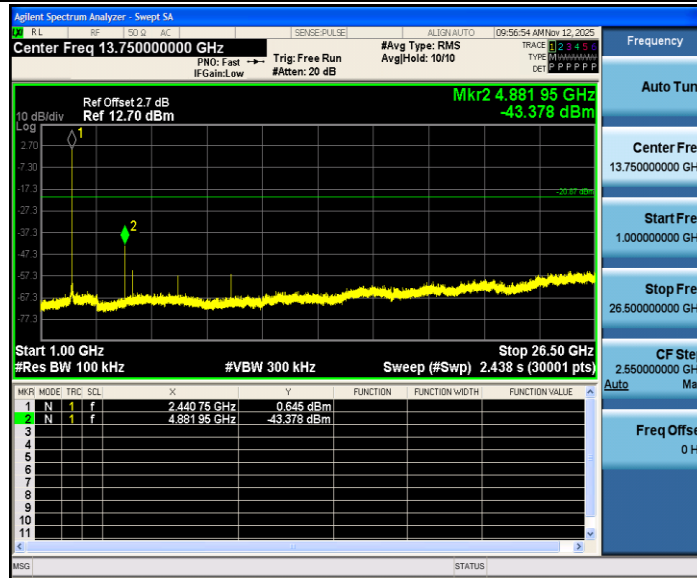
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



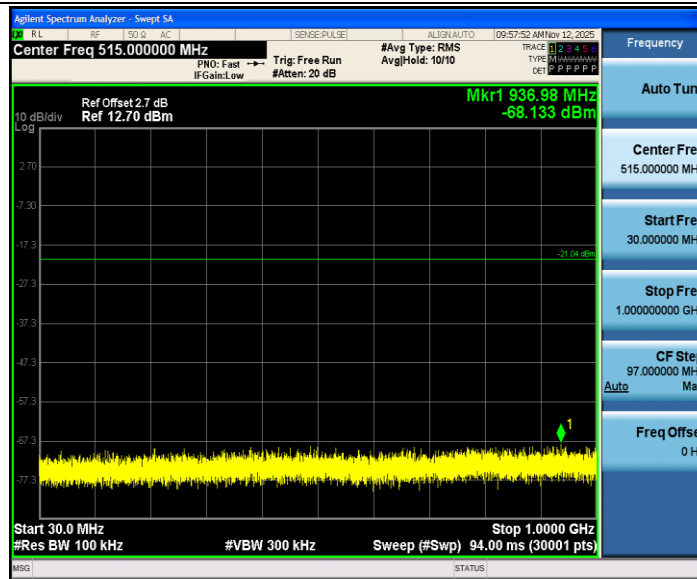
DH5_Ant1_2441_1000~26500



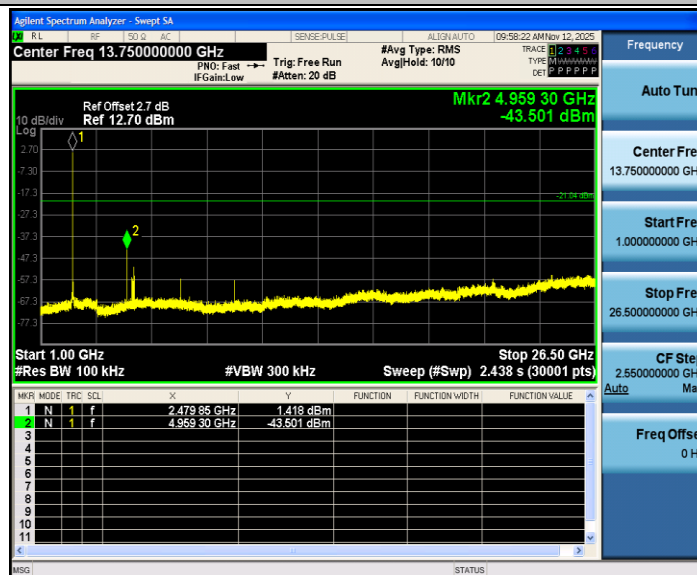
DH5_Ant1_2480_0~Reference



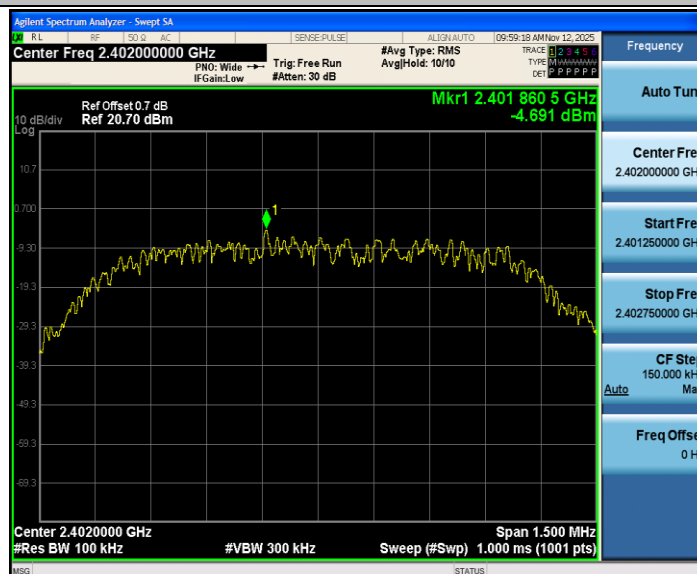
DH5_Ant1_2480_30~1000



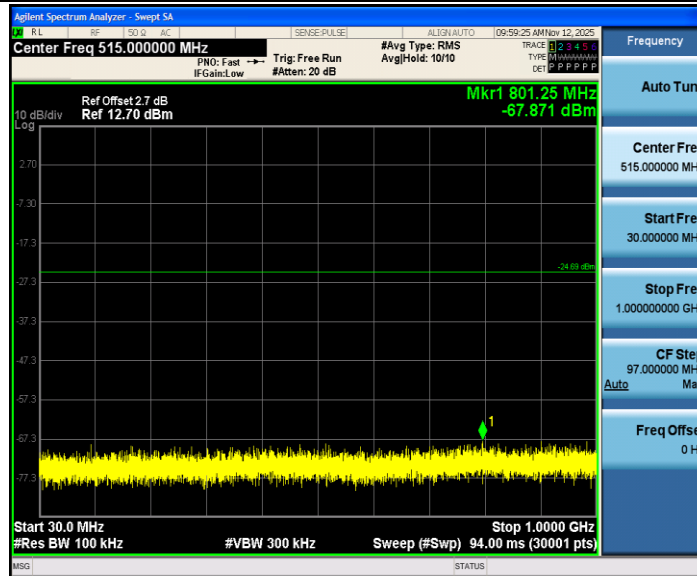
DH5_Ant1_2480_1000~26500



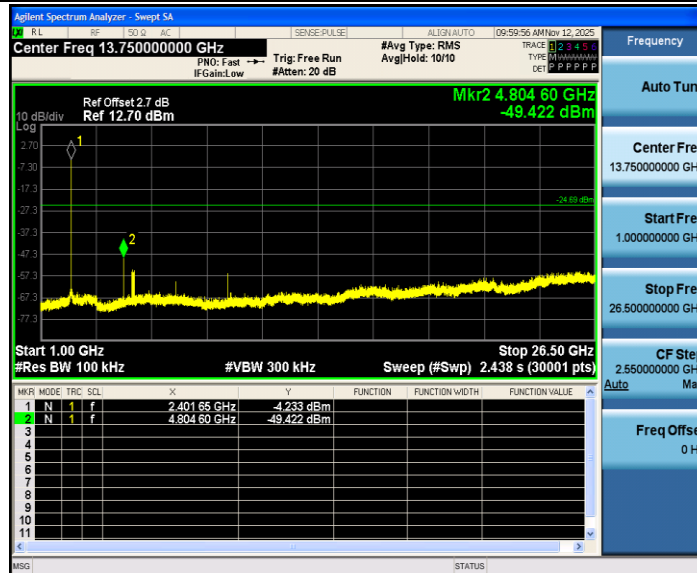
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



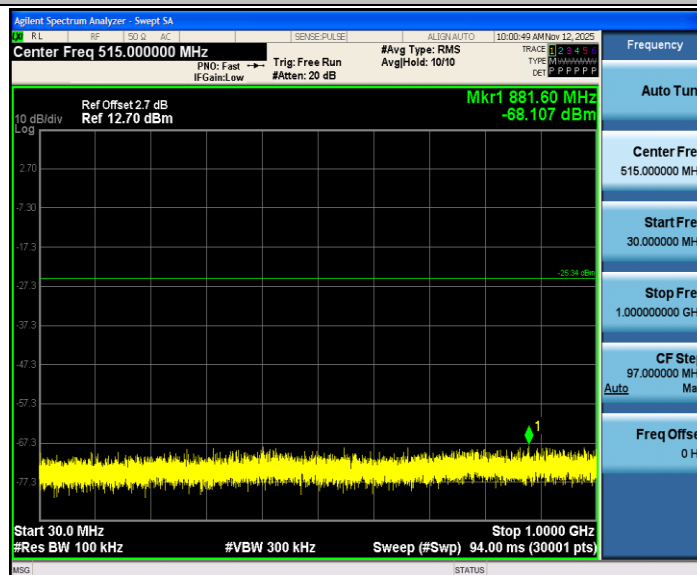
2DH5_Ant1_2402_1000~26500



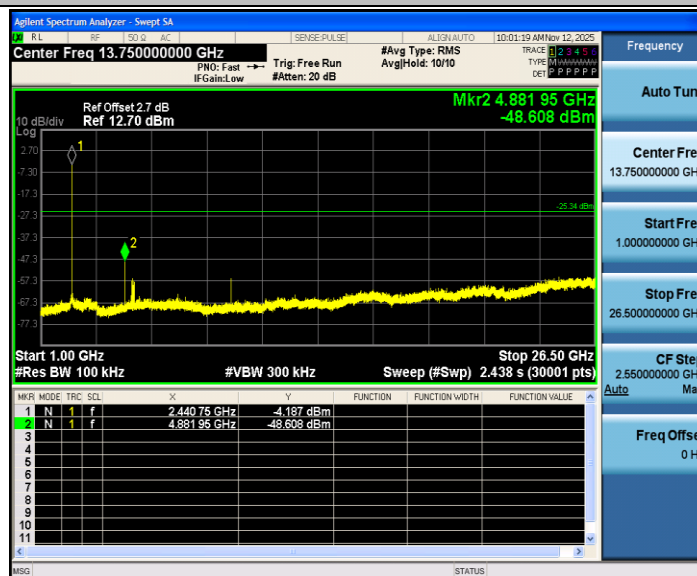
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



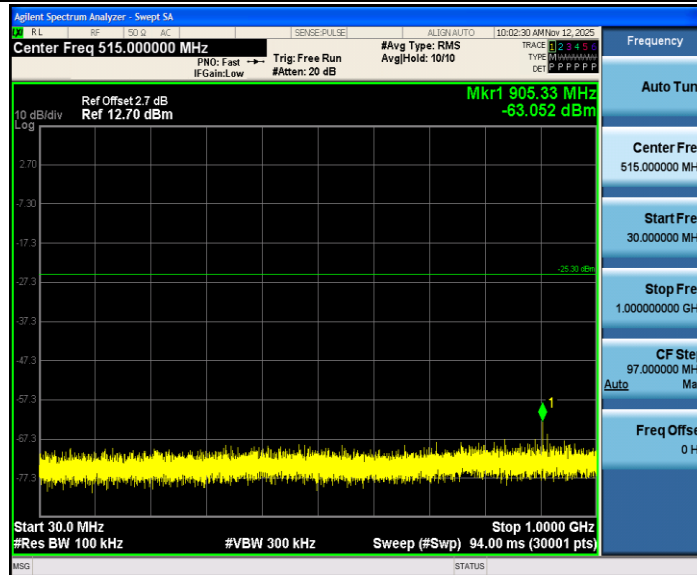
2DH5_Ant1_2441_1000~26500



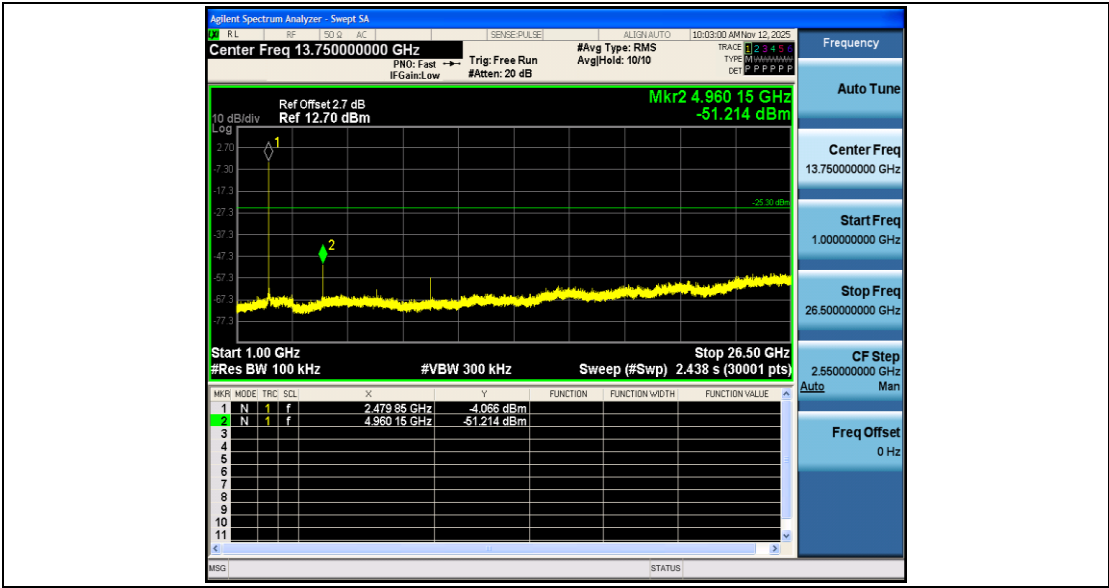
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

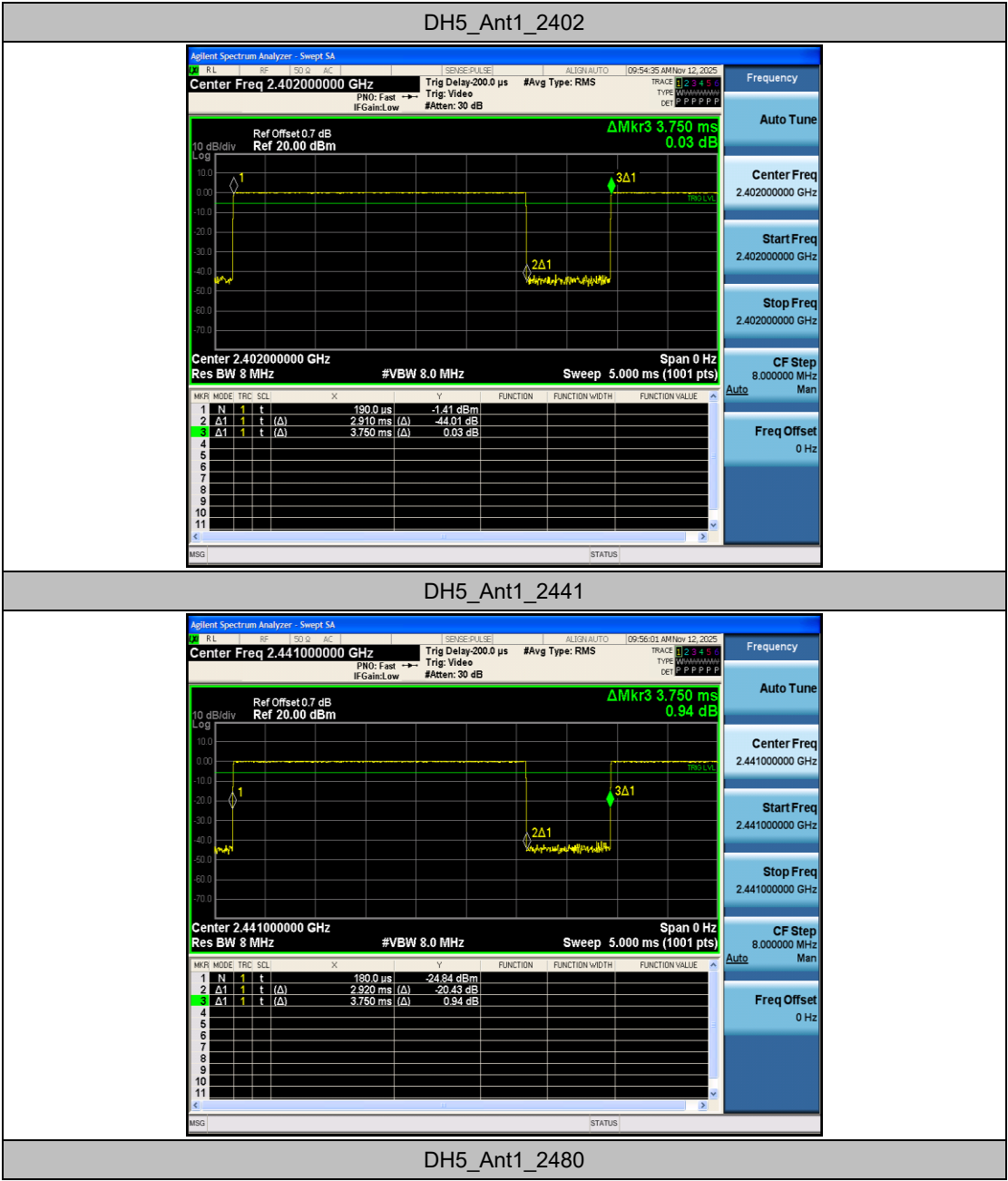


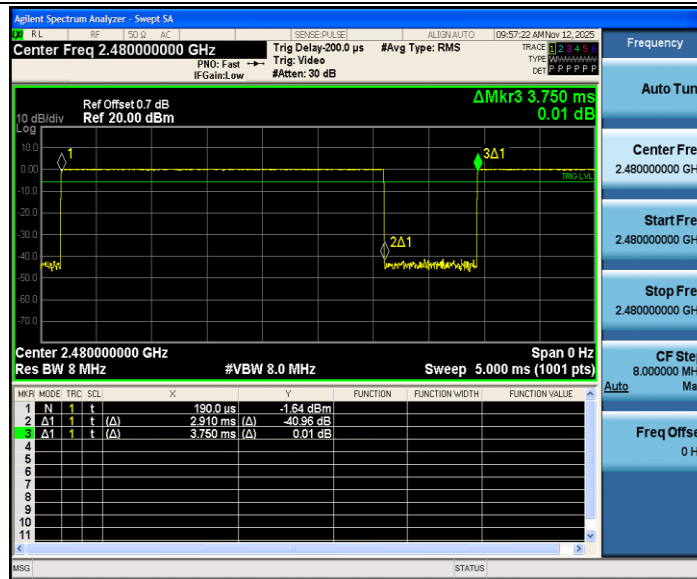
Appendix I: Duty Cycle

Test Result

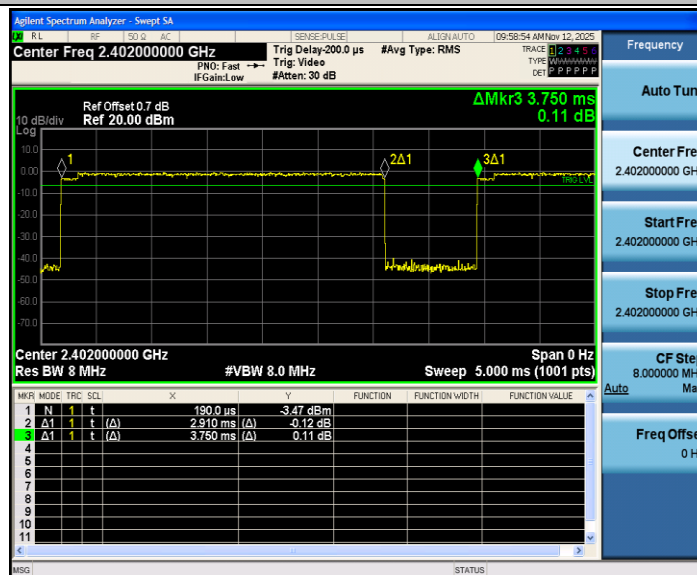
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09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

Test Graphs

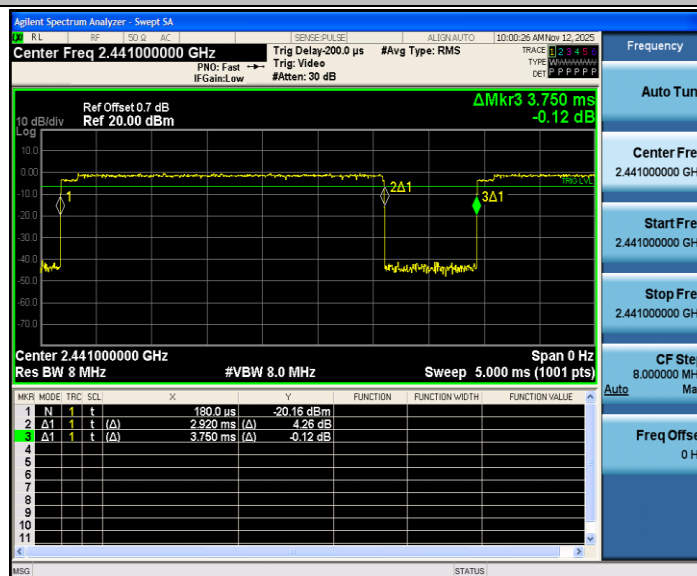




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

