

FCC Appendix RF Test Data for BT

FCC ID : 2AONT-BN903A

Company : Huizhou Kelin Acoustic co.,Ltd

EUT : WIRELESS ANC HEADPHONES

Model Number : BN903A

Report No. : CTA25092801101

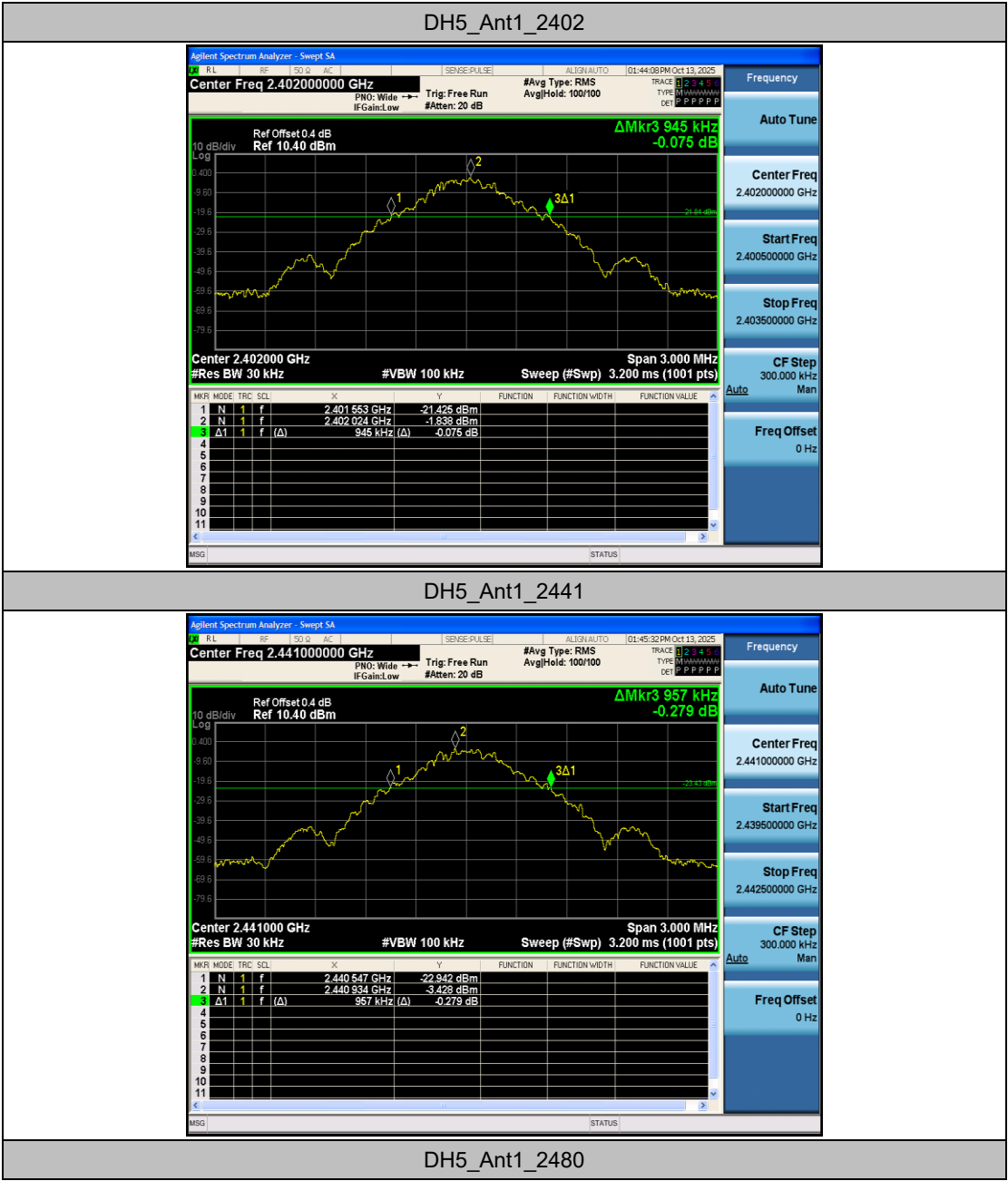
Reviewed By : Eric Wang

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	2401.553	2402.498	---	---
		2441	0.957	2440.547	2441.504	---	---
		2480	0.951	2479.547	2480.498	---	---
2DH5	Ant1	2402	1.317	2401.349	2402.666	---	---
		2441	1.278	2440.382	2441.660	---	---
		2480	1.326	2479.349	2480.675	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

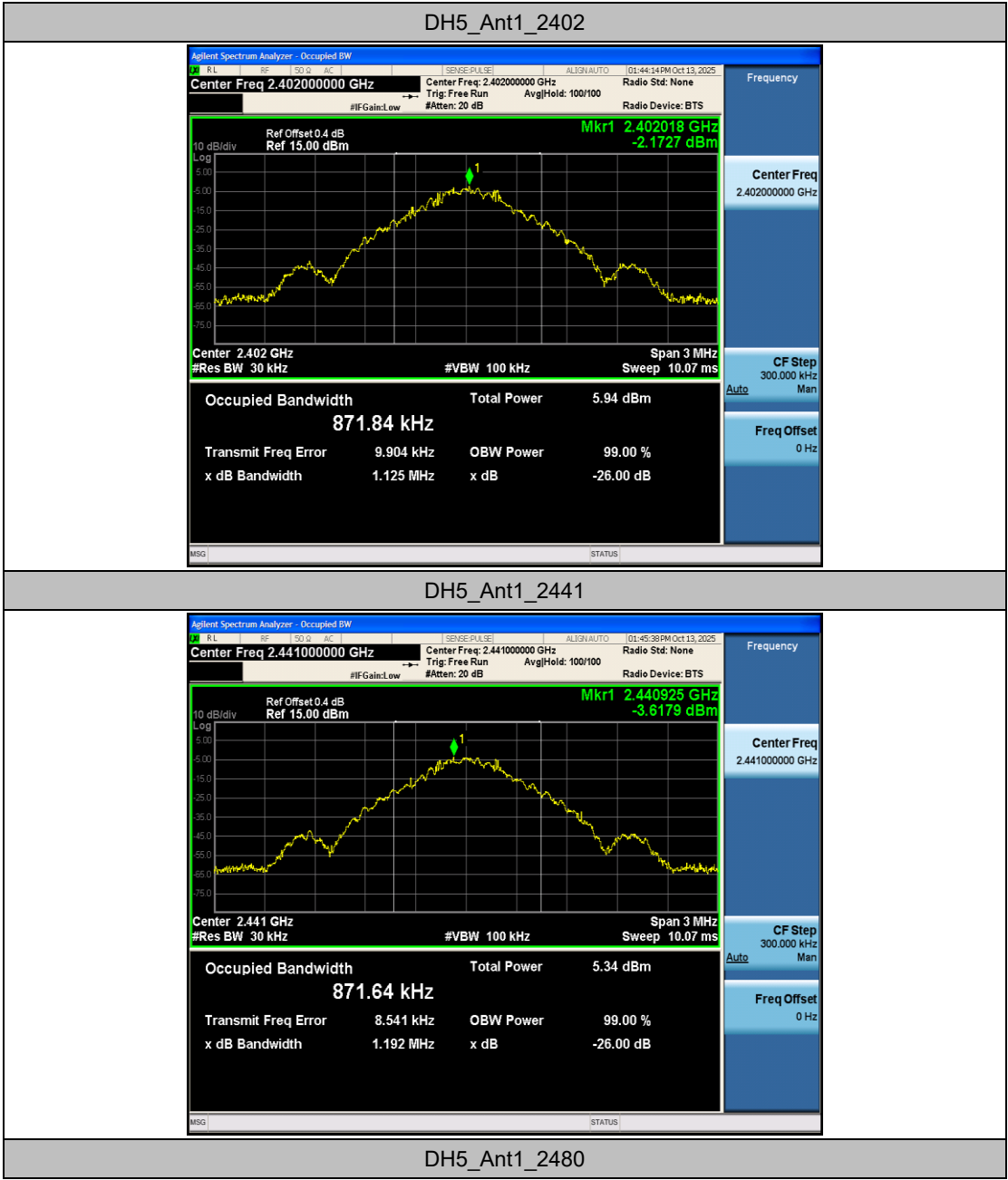


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87184	2401.5740	2402.4458	---	---
		2441	0.87164	2440.5727	2441.4444	---	---
		2480	0.86532	2479.5761	2480.4415	---	---
2DH5	Ant1	2402	1.1885	2401.4167	2402.6052	---	---
		2441	1.1888	2440.4170	2441.6058	---	---
		2480	1.1889	2479.4174	2480.6063	---	---

Test Graphs

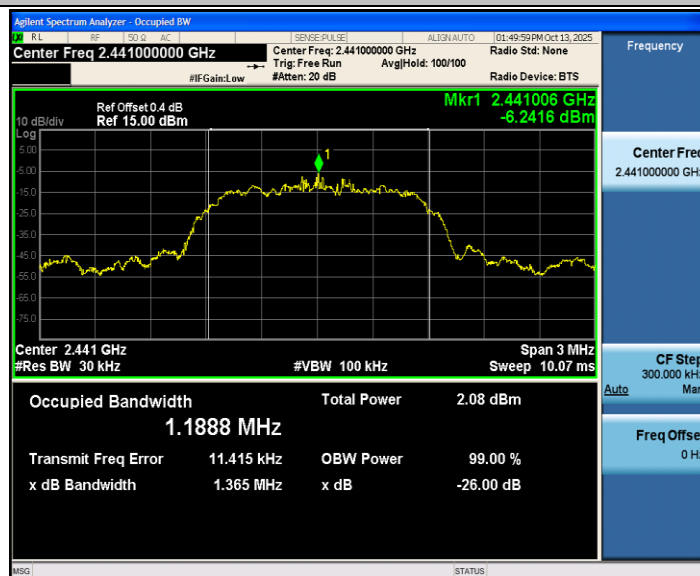




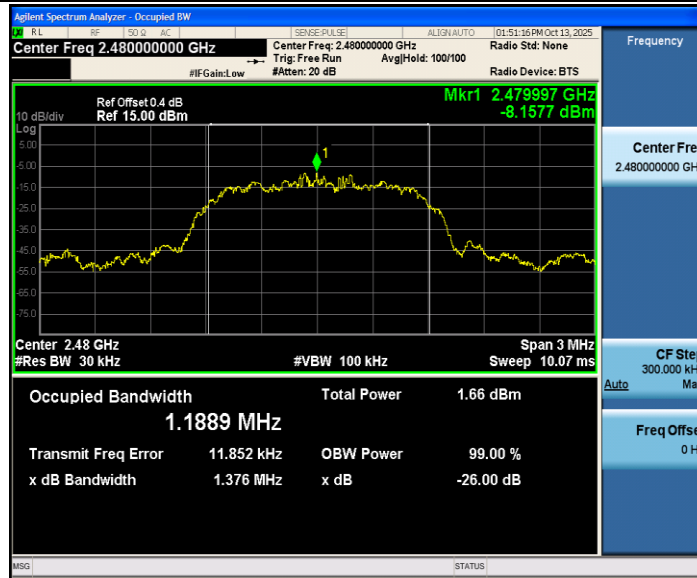
2DH5_Ant1_2402



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	0.06	≤20.97	PASS
		2441	-0.55	≤20.97	PASS
		2480	-0.90	≤20.97	PASS
2DH5	Ant1	2402	-0.74	≤20.97	PASS
		2441	-1.37	≤20.97	PASS
		2480	-1.72	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥ 0.957	PASS
2DH5	Ant1	Hop	1.096	≥ 0.884	PASS

Test Graphs

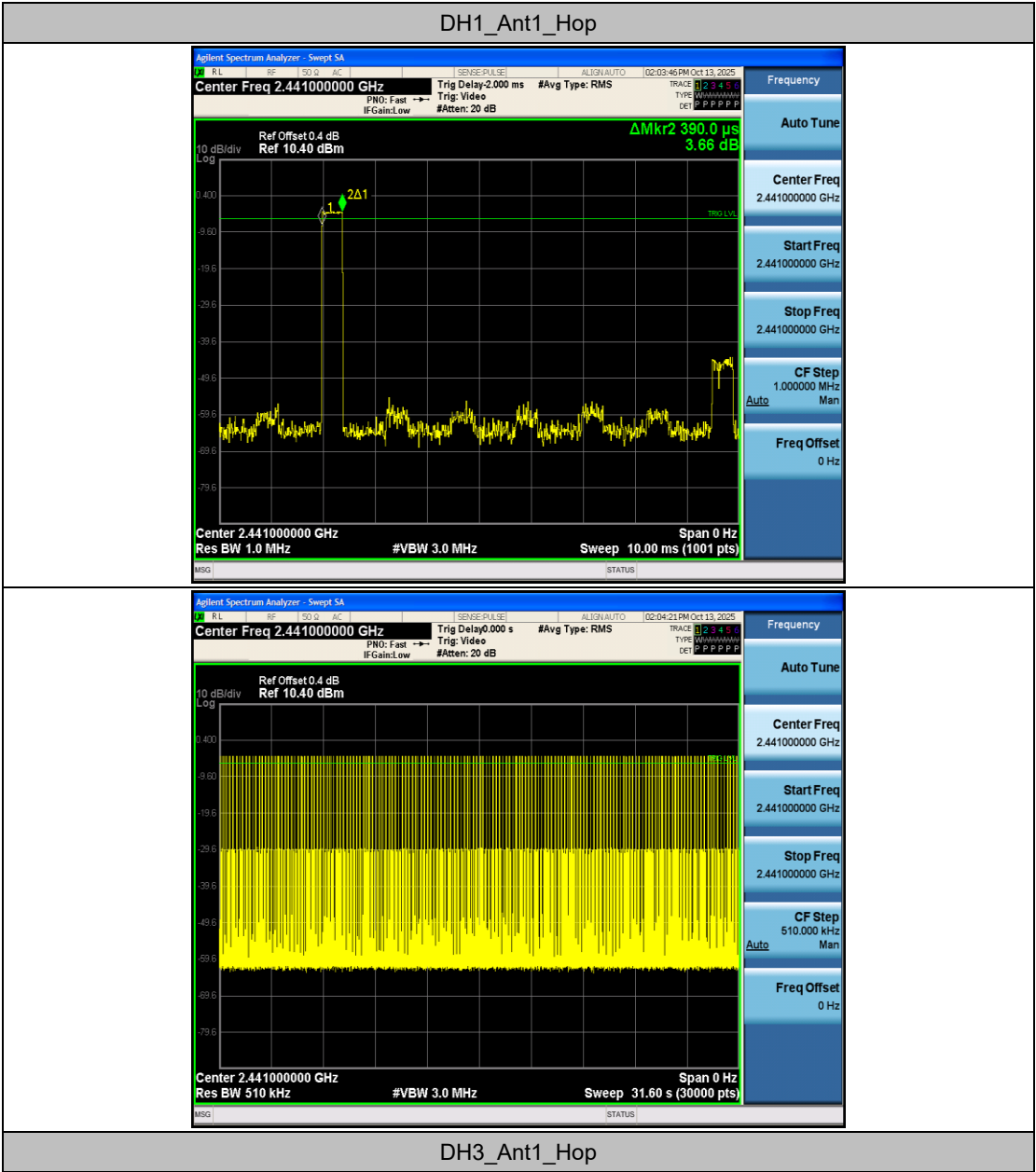


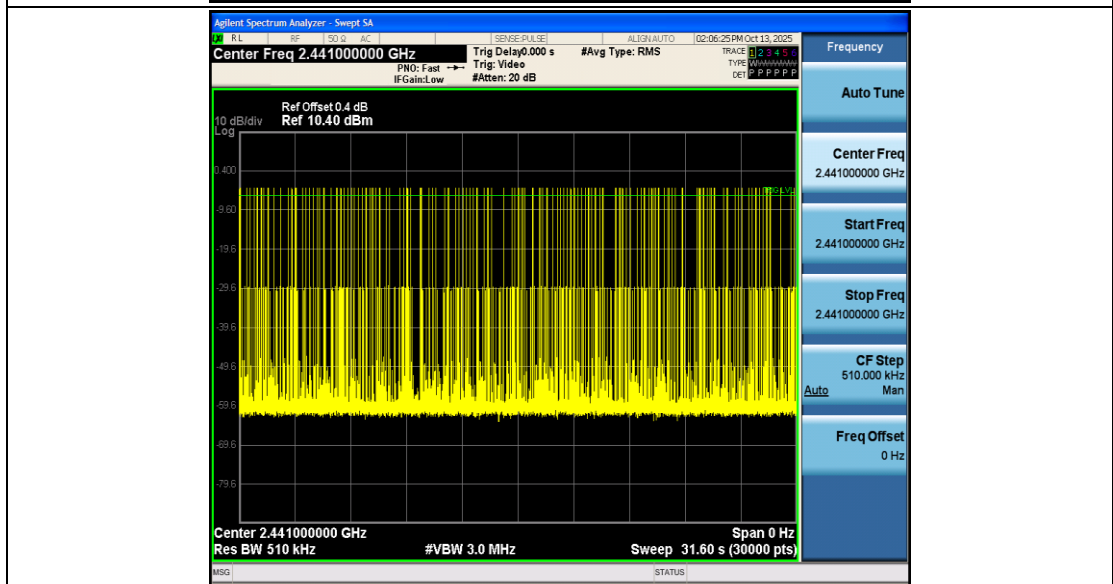
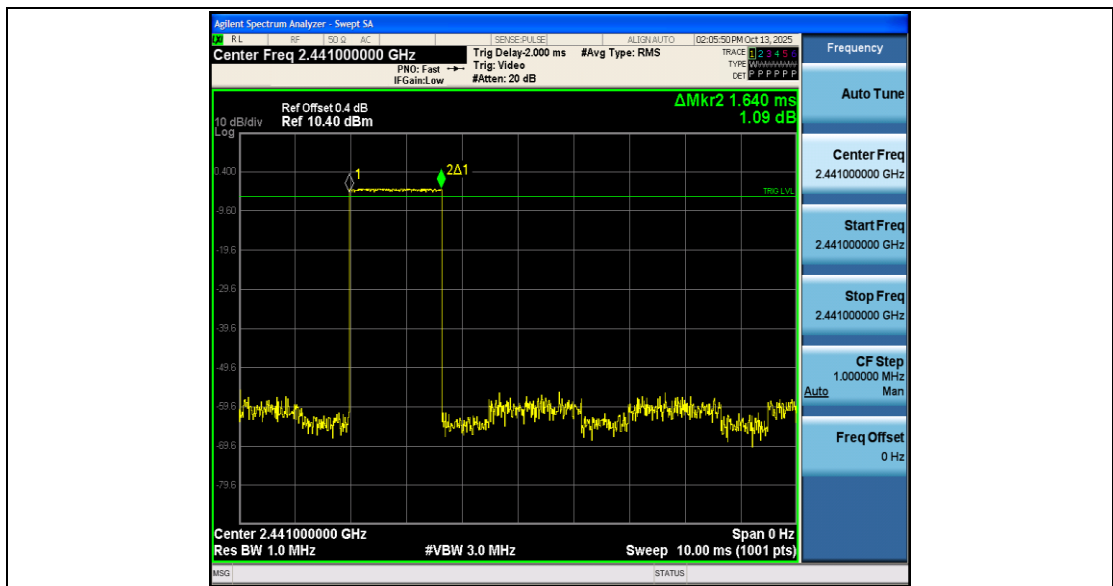
Appendix E: Time of occupancy

Test Result

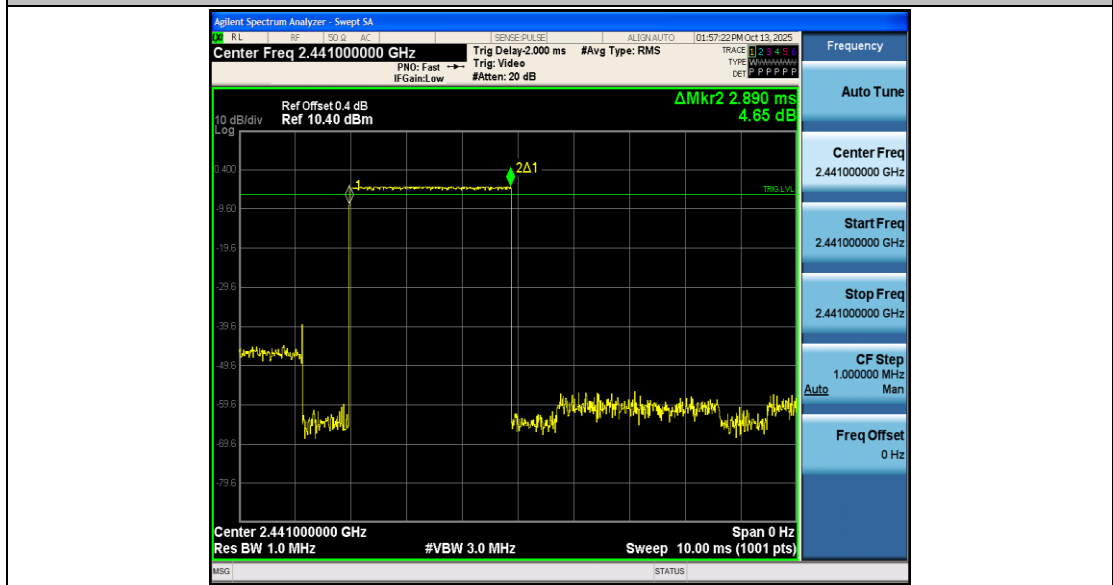
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	159	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.890	94	0.272	≤0.4	PASS
2DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.650	155	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.900	108	0.313	≤0.4	PASS

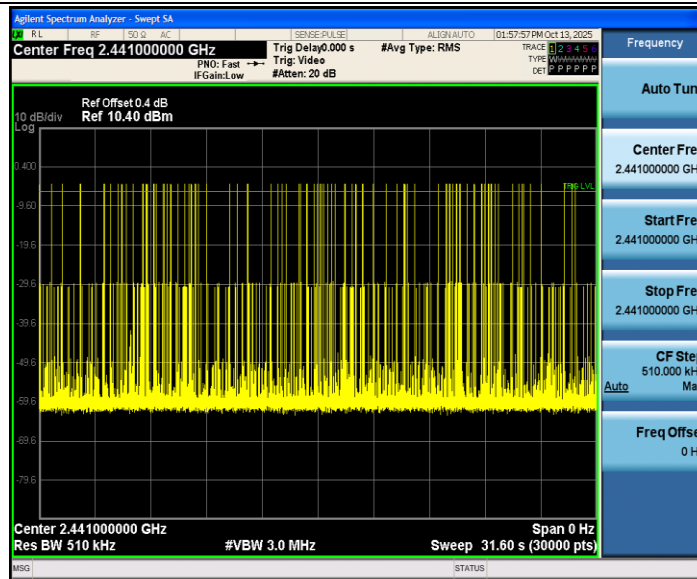
Test Graphs



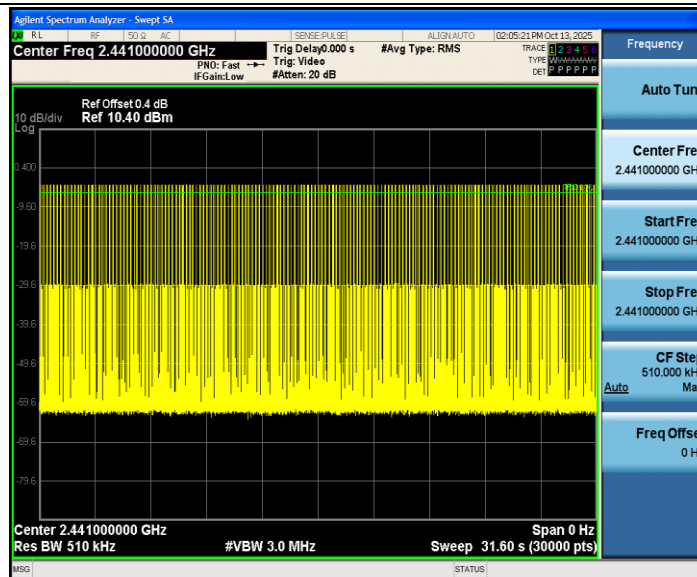
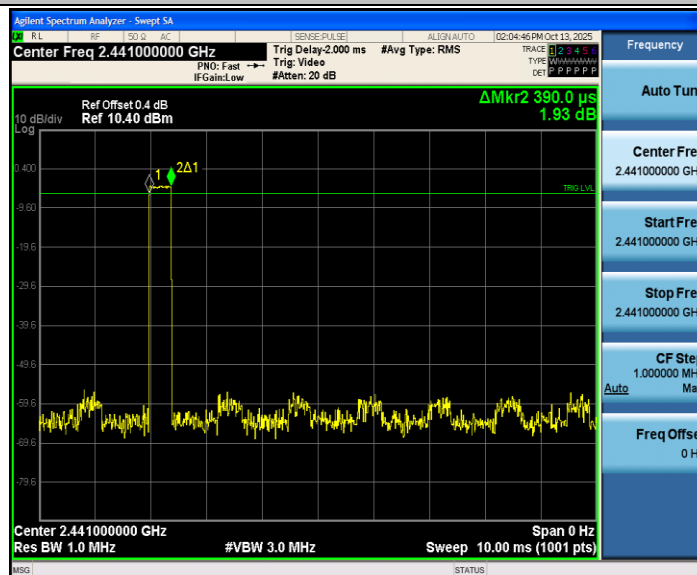


DH5_Ant1_Hop

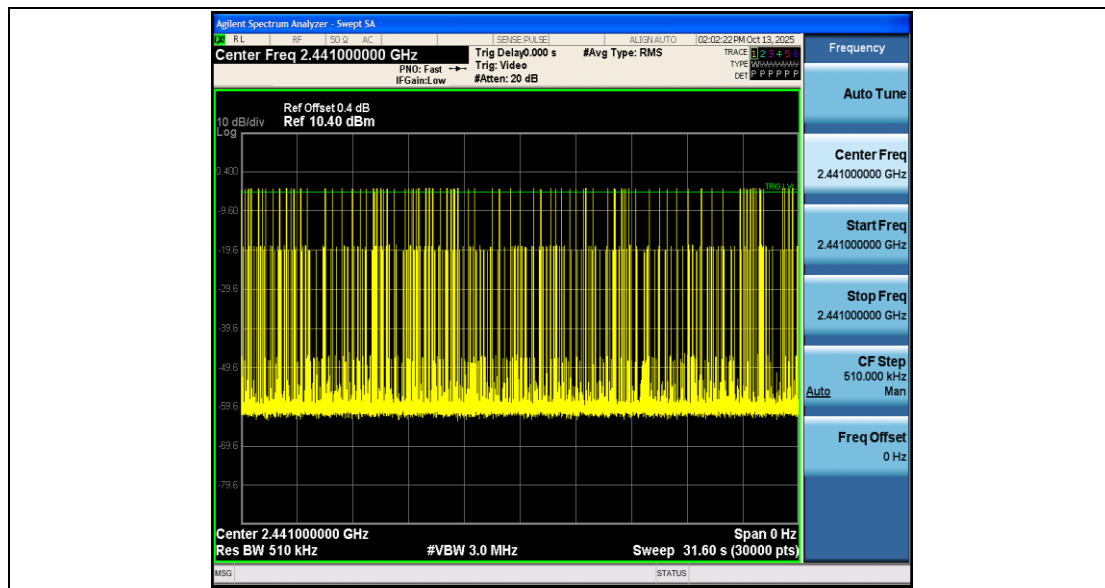




2DH1_Ant1_Hop



2DH3_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

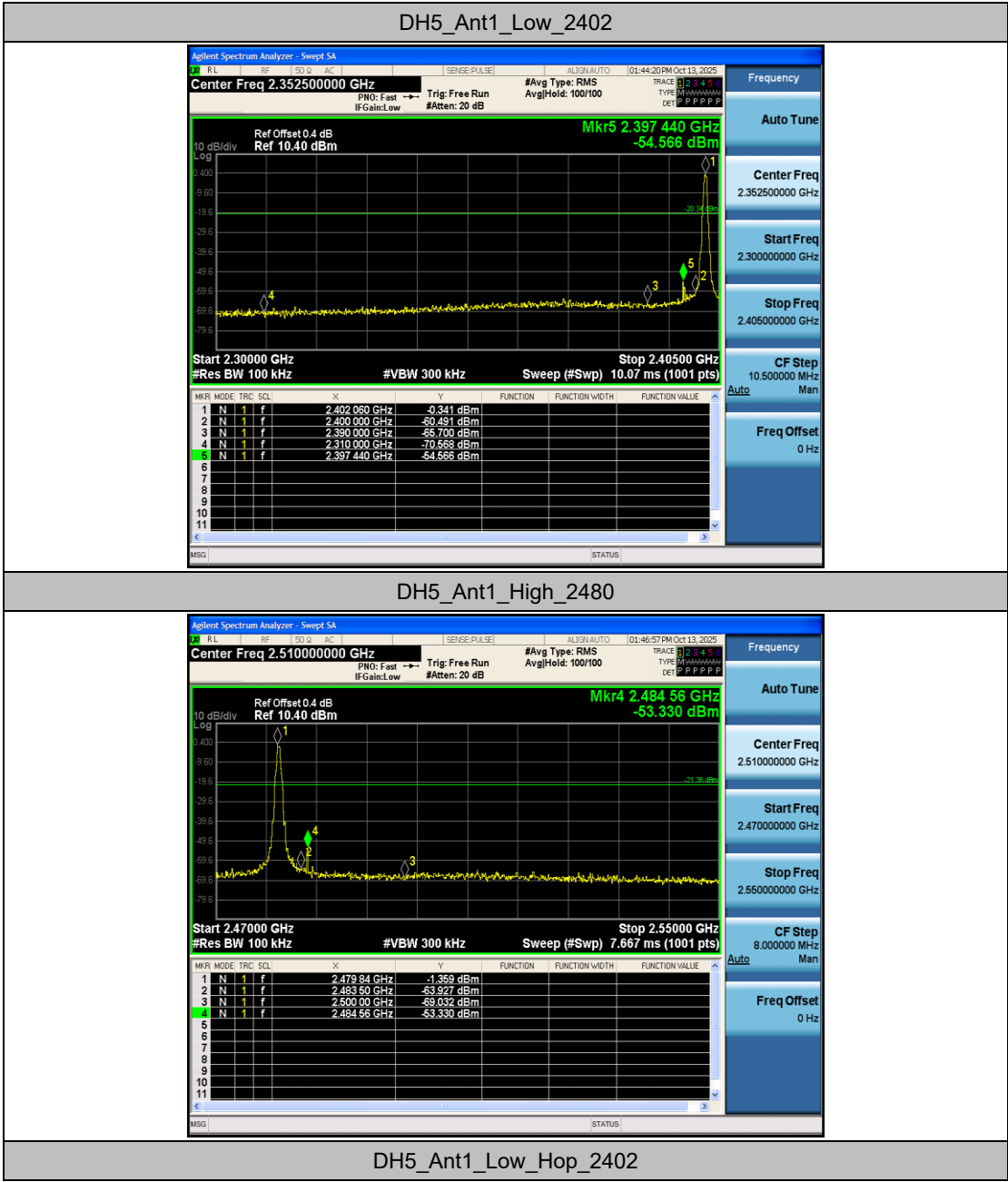


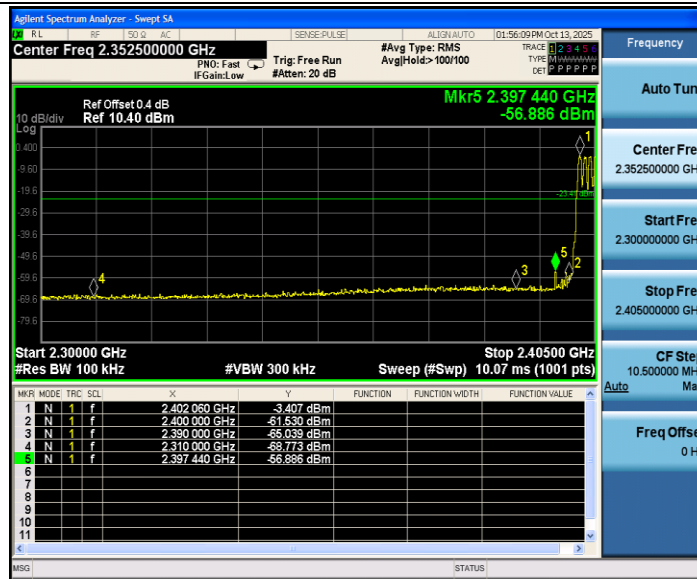
Appendix G: Band edge measurements

Test Result

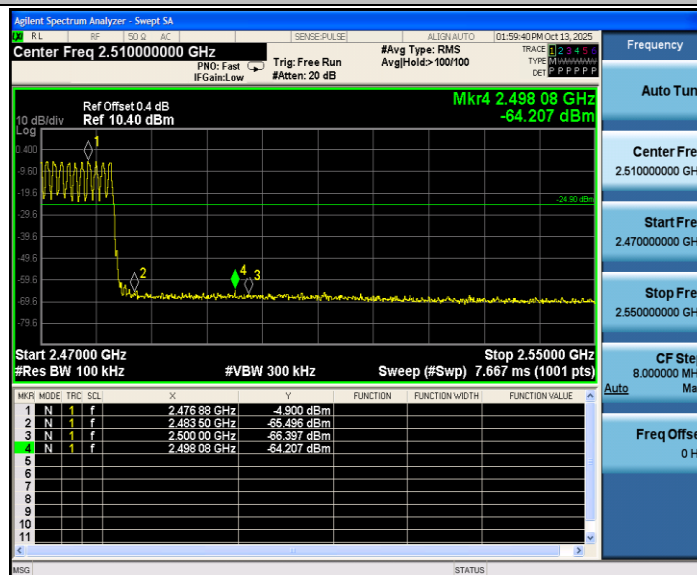
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.34	-54.57	≤-20.34	PASS
		High	2480	-1.36	-53.33	≤-21.36	PASS
		Low	Hop_2402	-3.41	-56.89	≤-23.41	PASS
		High	Hop_2480	-4.90	-64.21	≤-24.9	PASS
2DH5	Ant1	Low	2402	-4.79	-57.76	≤-24.79	PASS
		High	2480	-4.32	-62.44	≤-24.32	PASS
		Low	Hop_2402	-4.75	-61.5	≤-24.75	PASS
		High	Hop_2480	-4.44	-64.7	≤-24.44	PASS

Test Graphs

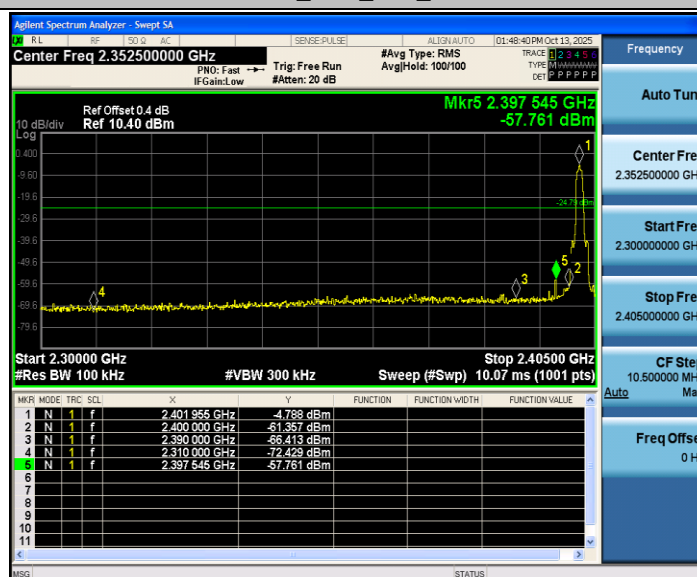




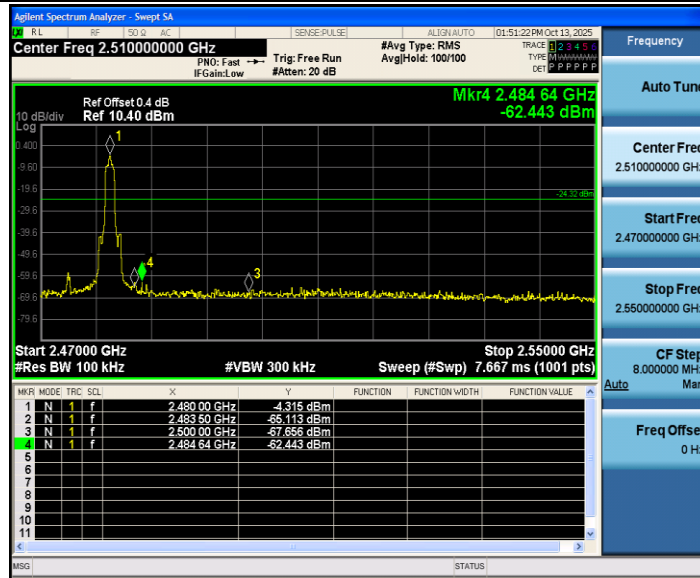
DH5_Ant1_High_Hop_2480



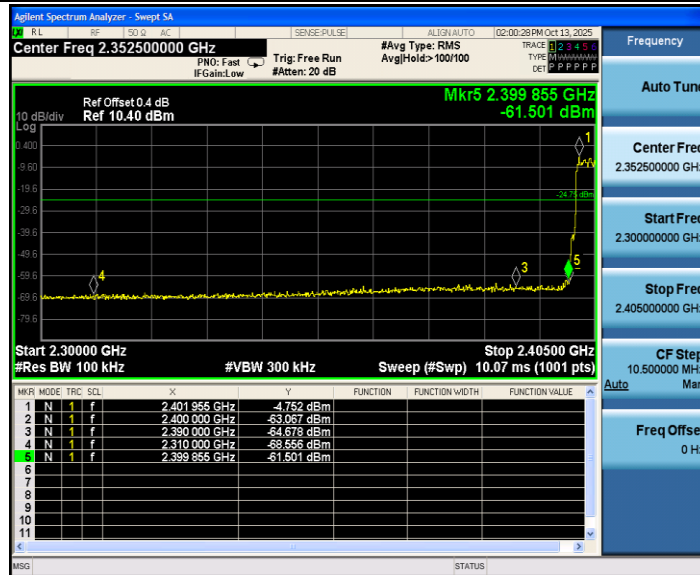
2DH5_Ant1_Low_2402



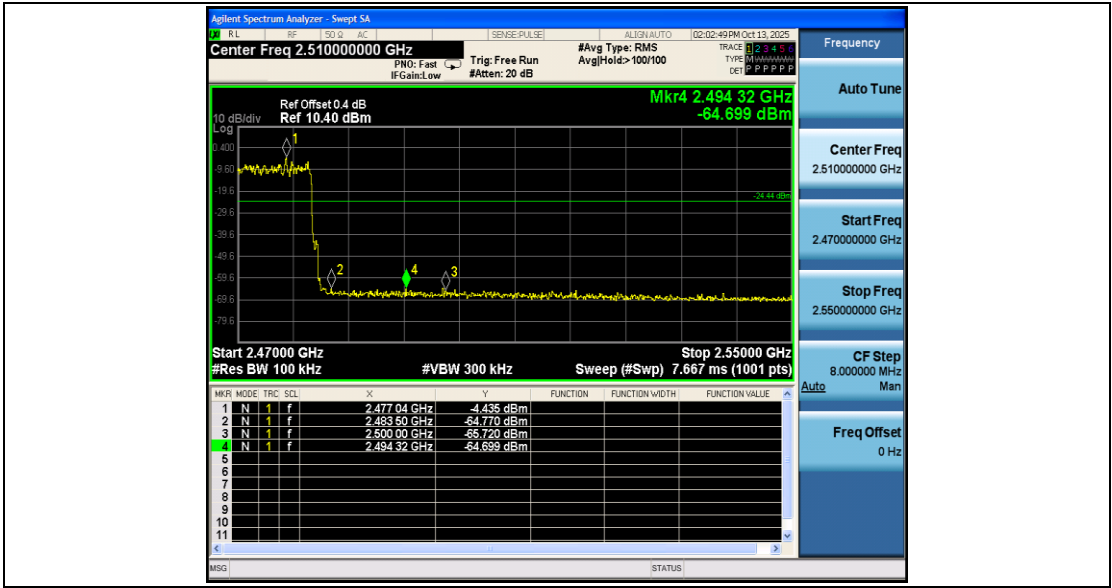
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

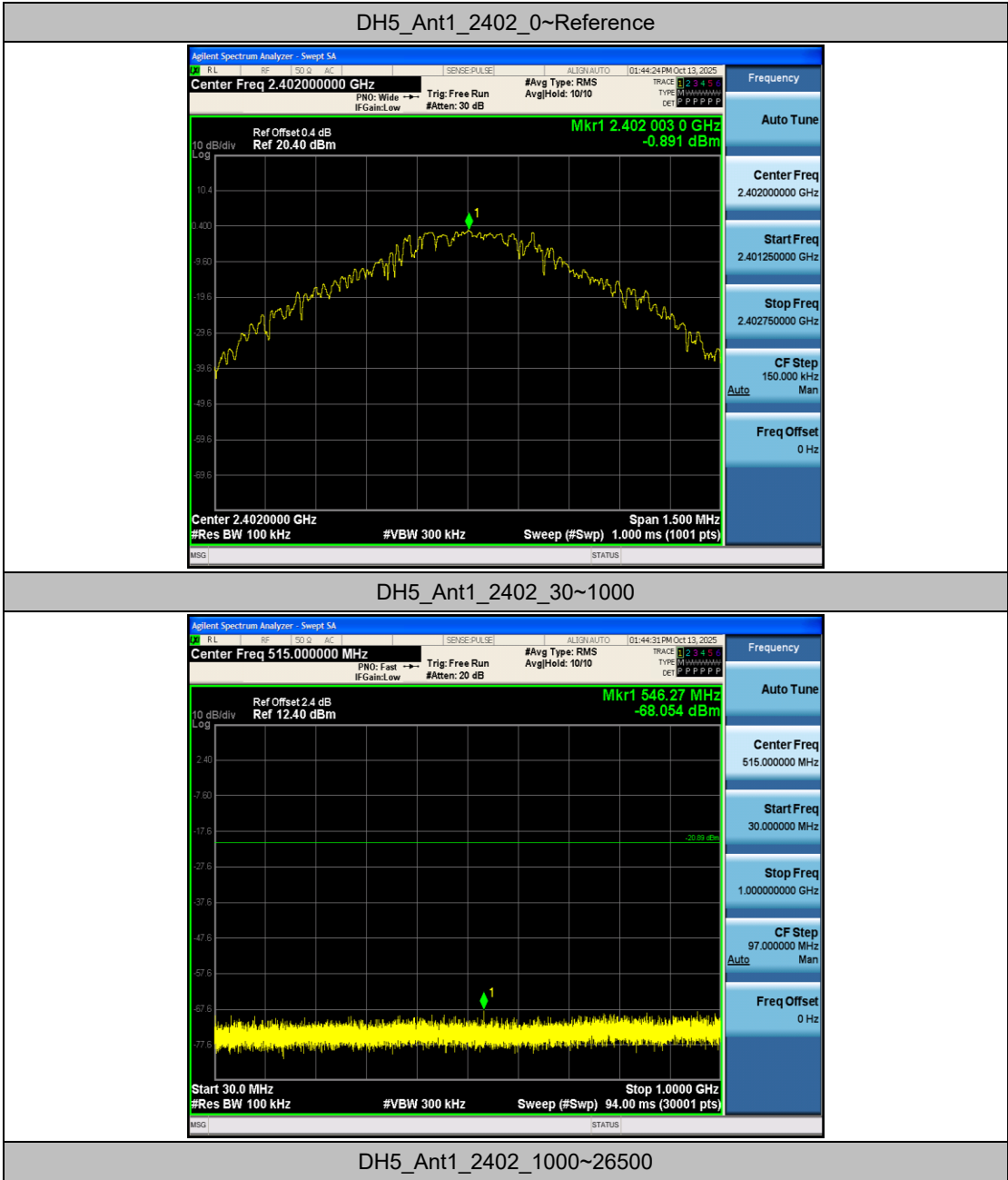


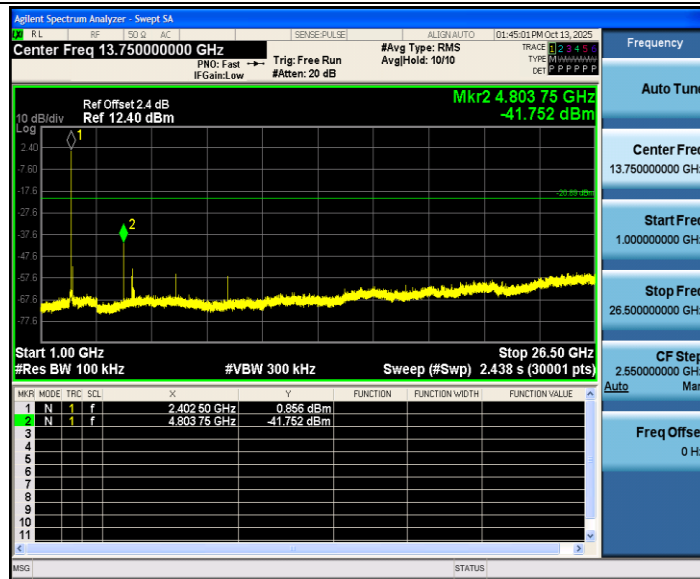
Appendix H: Conducted Spurious Emission

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	-68.05	≤-20.89	PASS
			1000~26500	-0.89	-41.75	≤-20.89	PASS
		2441	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-67.95	≤-21.65	PASS
			1000~26500	-1.65	-41.25	≤-21.65	PASS
		2480	Reference	-1.68	-1.68	---	PASS
			30~1000	-1.68	-67.99	≤-21.68	PASS
			1000~26500	-1.68	-42.88	≤-21.68	PASS
2DH5	Ant1	2402	Reference	-4.79	-4.79	---	PASS
			30~1000	-4.79	-52.72	≤-24.79	PASS
			1000~26500	-4.79	-50.06	≤-24.79	PASS
		2441	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-67.45	≤-24.85	PASS
			1000~26500	-4.85	-49.73	≤-24.85	PASS
		2480	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-68.04	≤-25.15	PASS
			1000~26500	-5.15	-47.13	≤-25.15	PASS

Test Graphs

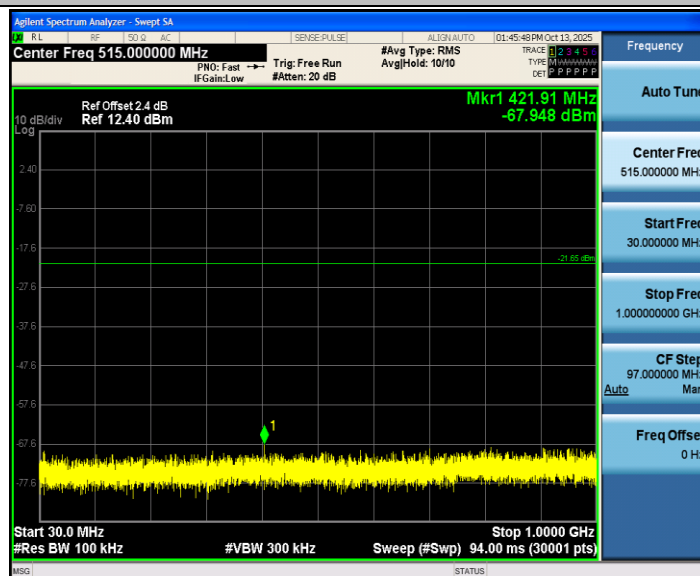




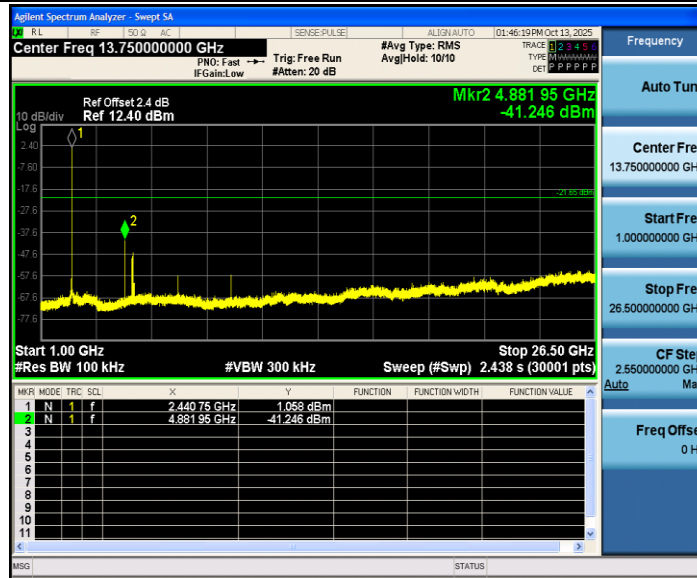
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



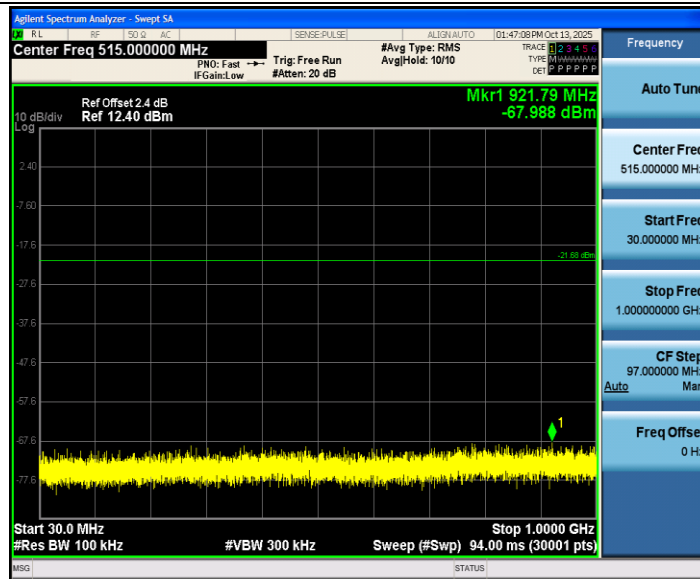
DH5_Ant1_2441_1000~26500



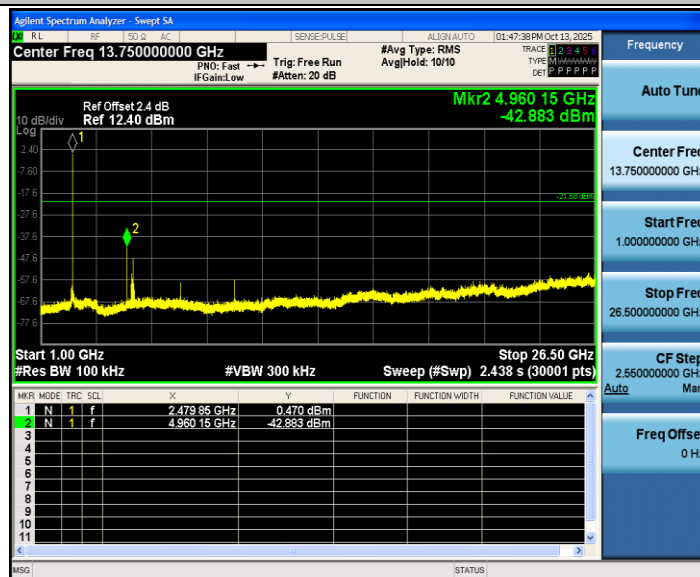
DH5_Ant1_2480_0~Reference



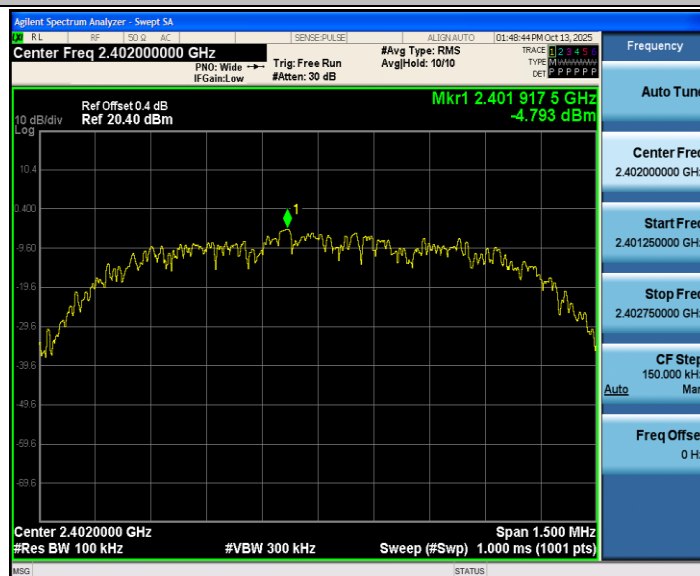
DH5_Ant1_2480_30~1000



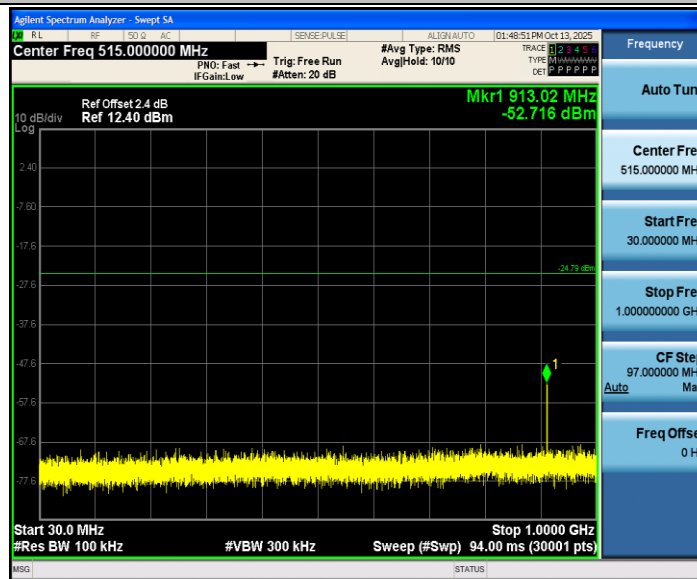
DH5_Ant1_2480_1000~26500



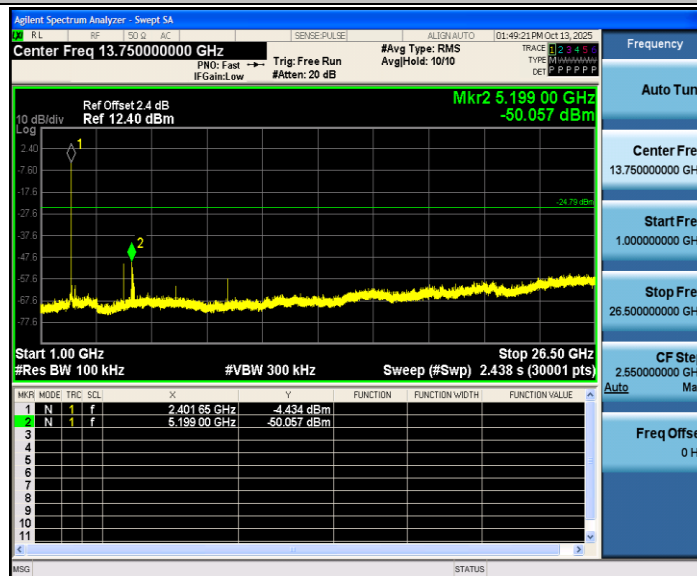
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



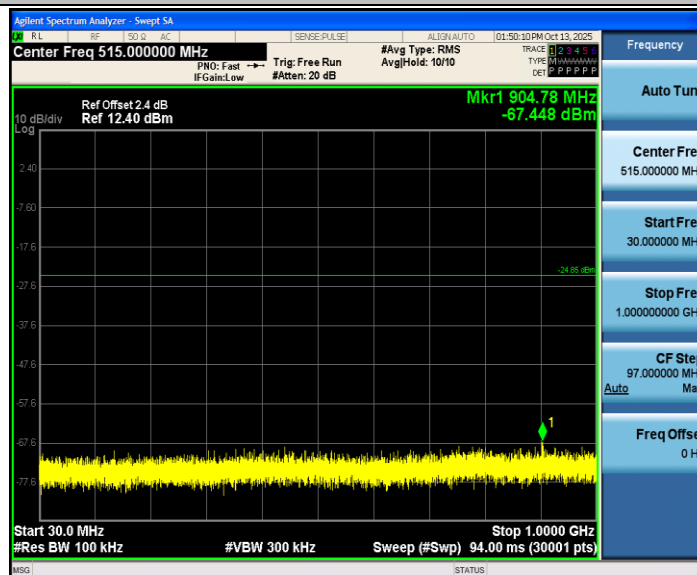
2DH5_Ant1_2402_1000~26500



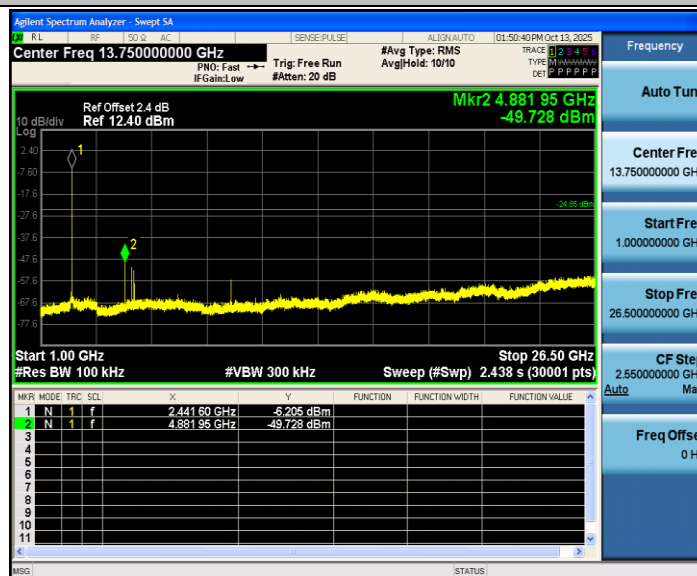
2DH5_Ant1_2441_0~Reference



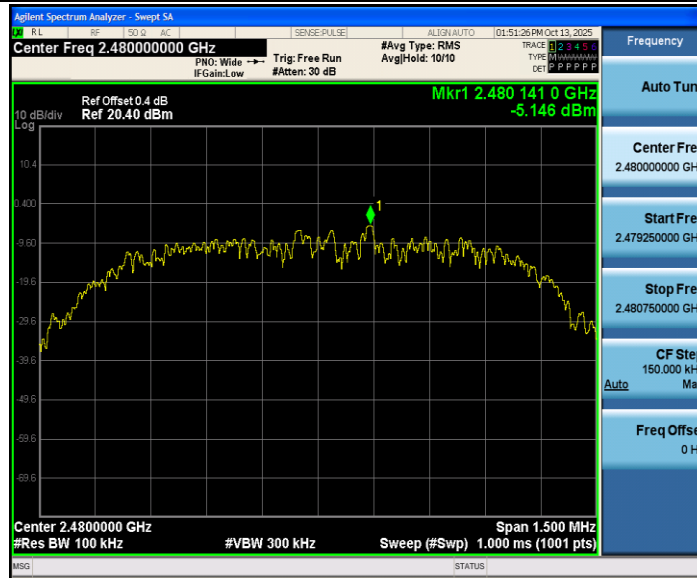
2DH5_Ant1_2441_30~1000



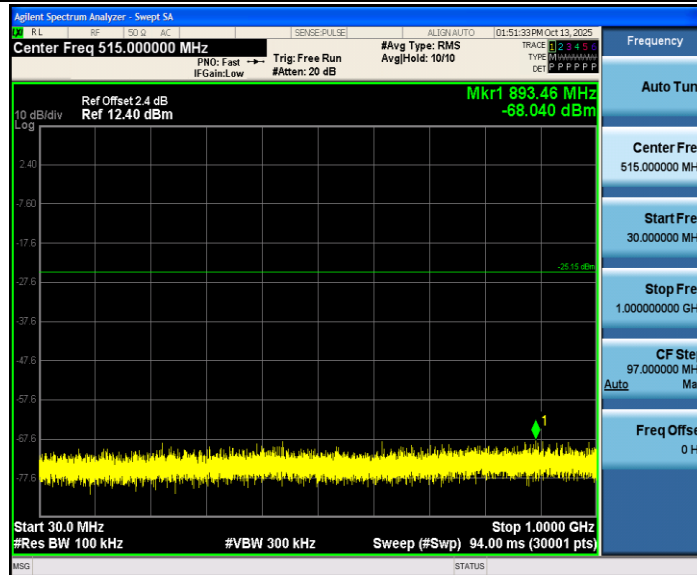
2DH5_Ant1_2441_1000~26500



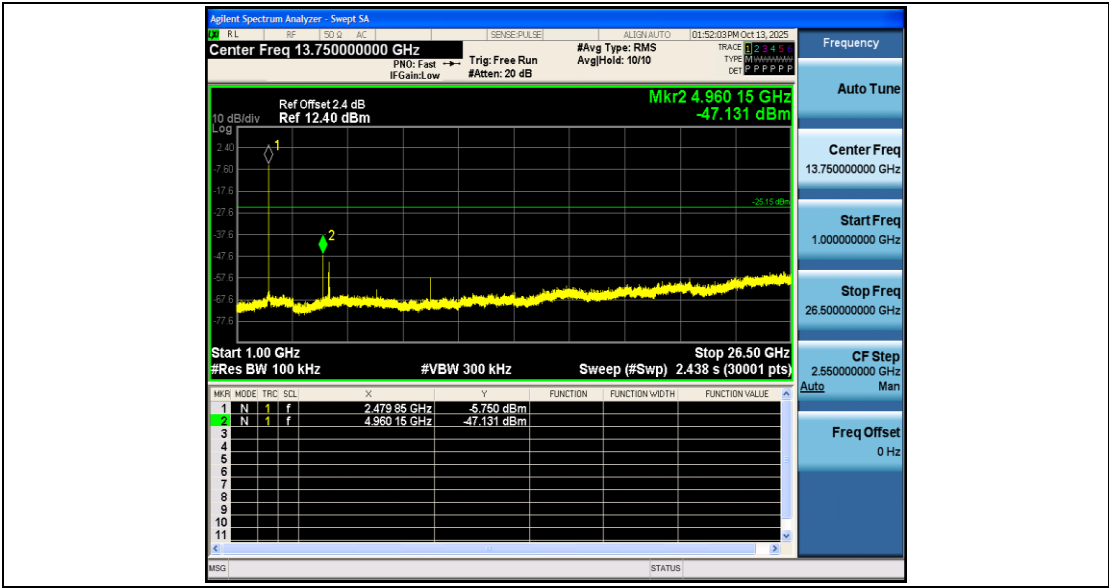
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

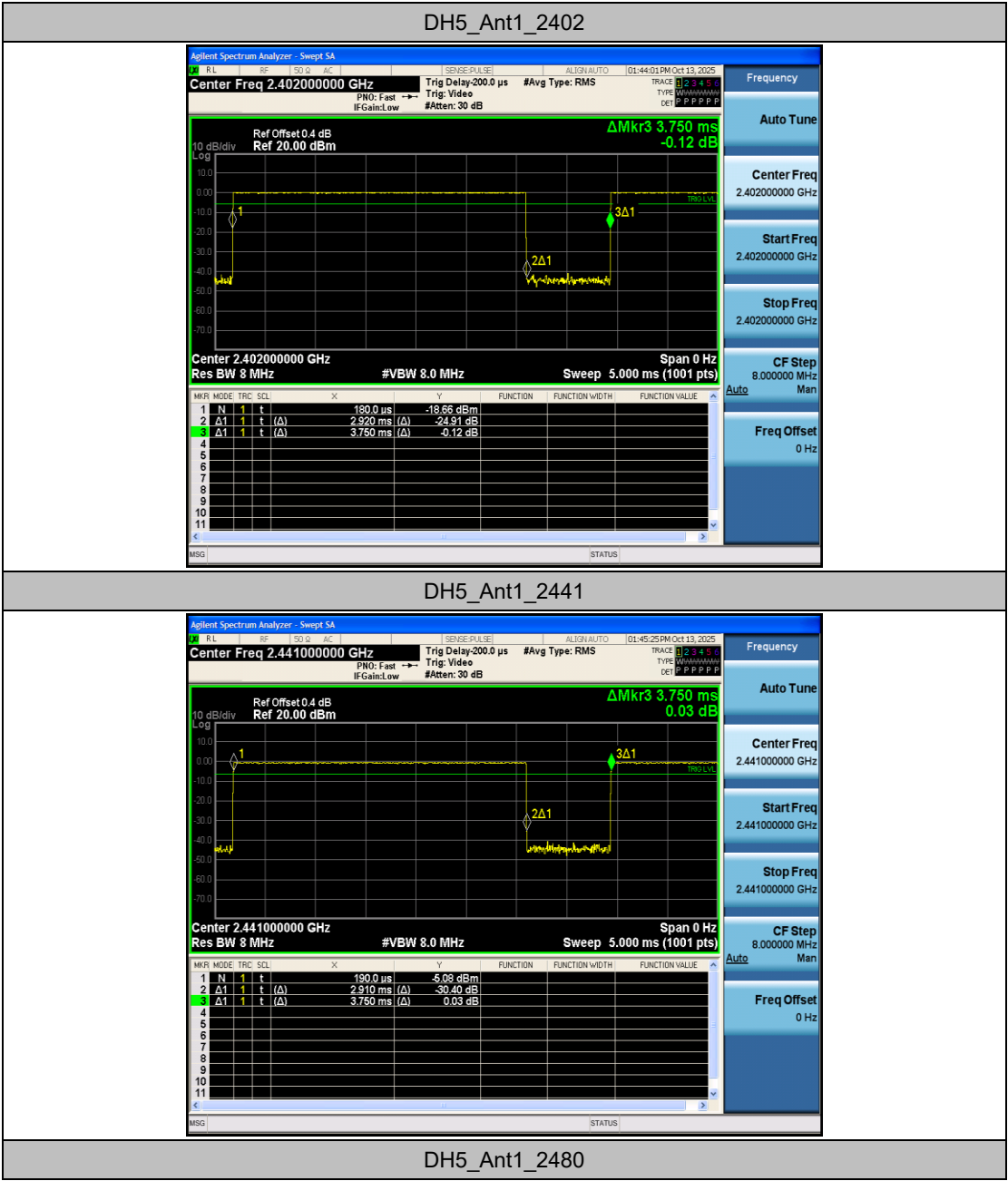


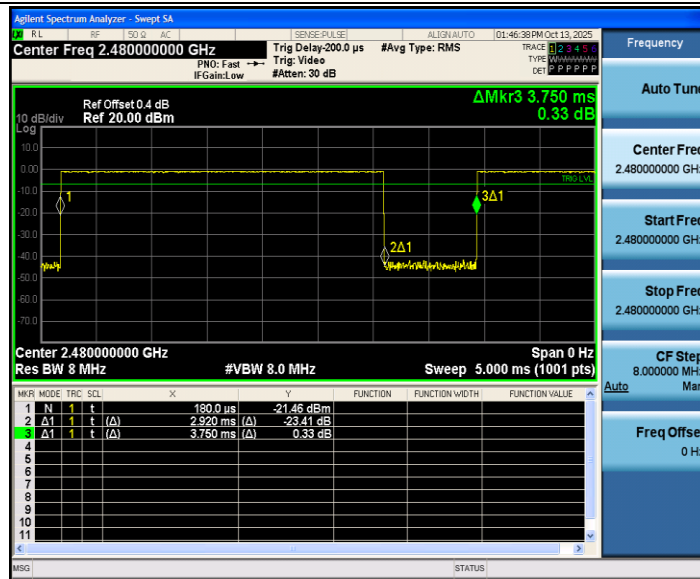
Appendix I: Duty Cycle

Test Result

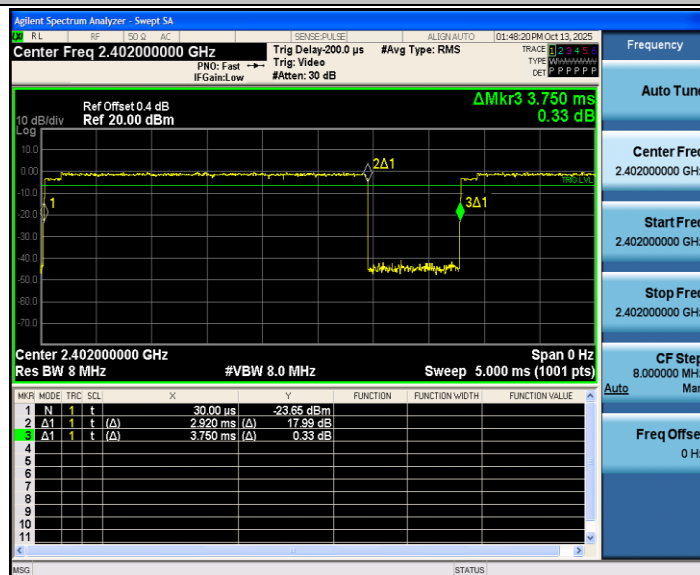
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10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

Test Graphs

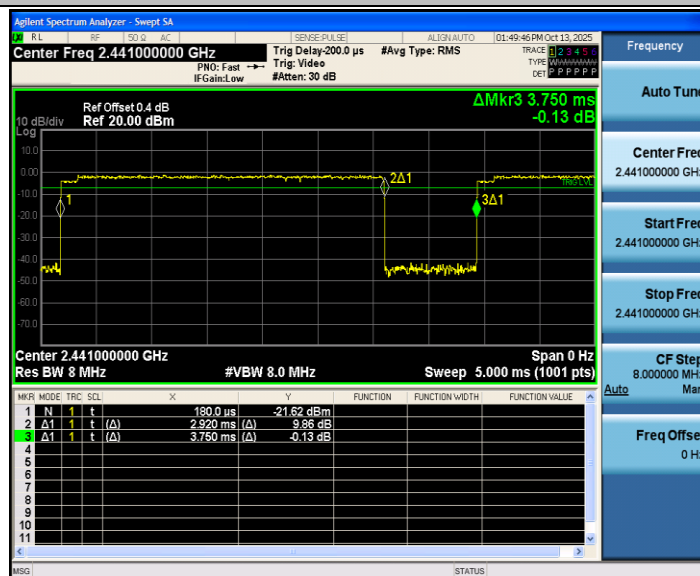




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

