

FCC Appendix RF Test Data for BT

Company: : ShenZhen litian technology Co.,Ltd

EUT : Bluetooth headphones

Model Number : HP006

FCC ID : 2AYZG-HP006

Report No. : CTA25091601901

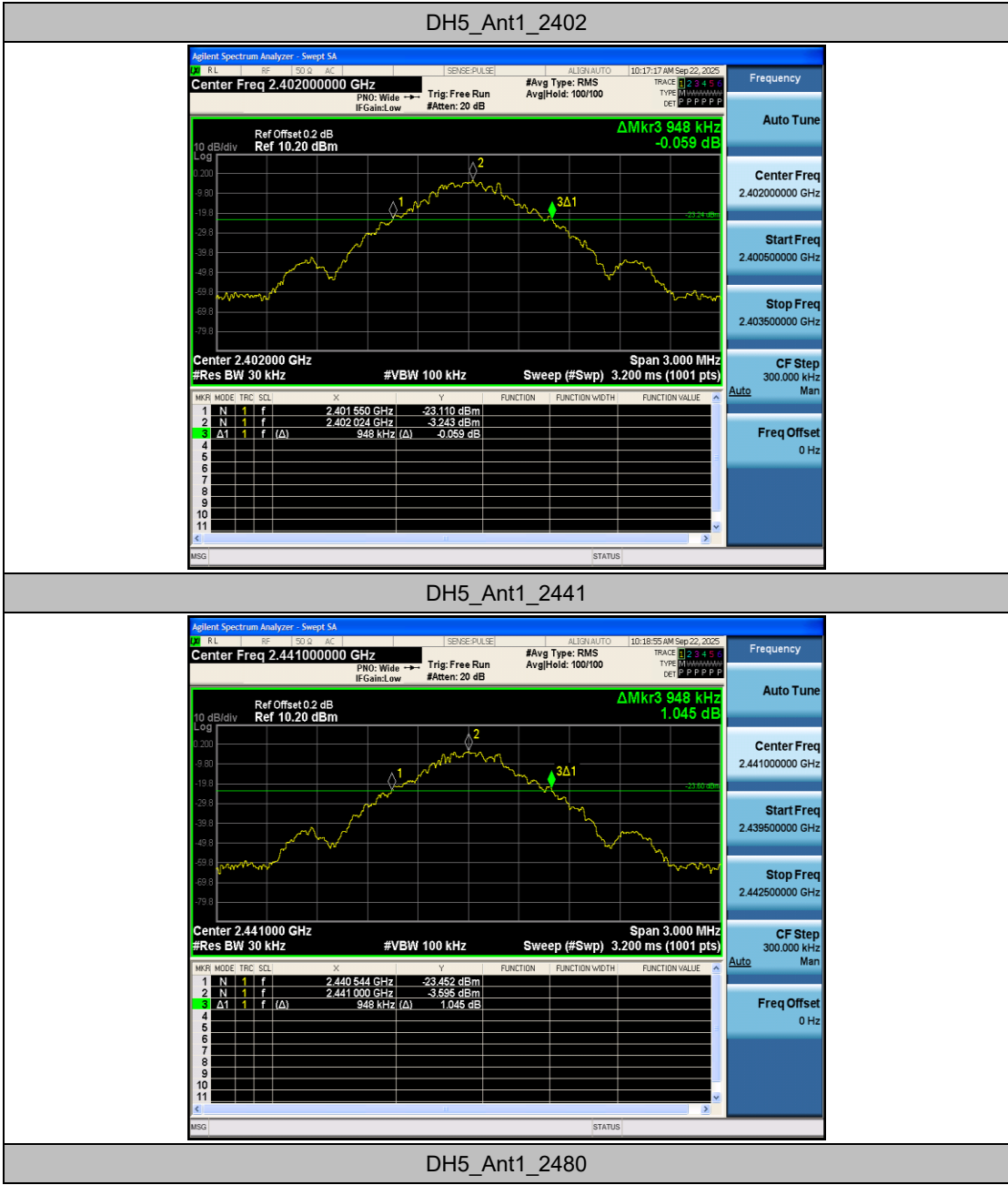
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.550	2402.498	---	---
		2441	0.948	2440.544	2441.492	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.317	2401.349	2402.666	---	---
		2441	1.278	2440.382	2441.660	---	---
		2480	1.317	2479.349	2480.666	---	---
3DH5	Ant1	2402	1.275	2401.382	2402.657	---	---
		2441	1.347	2440.337	2441.684	---	---
		2480	1.278	2479.382	2480.660	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

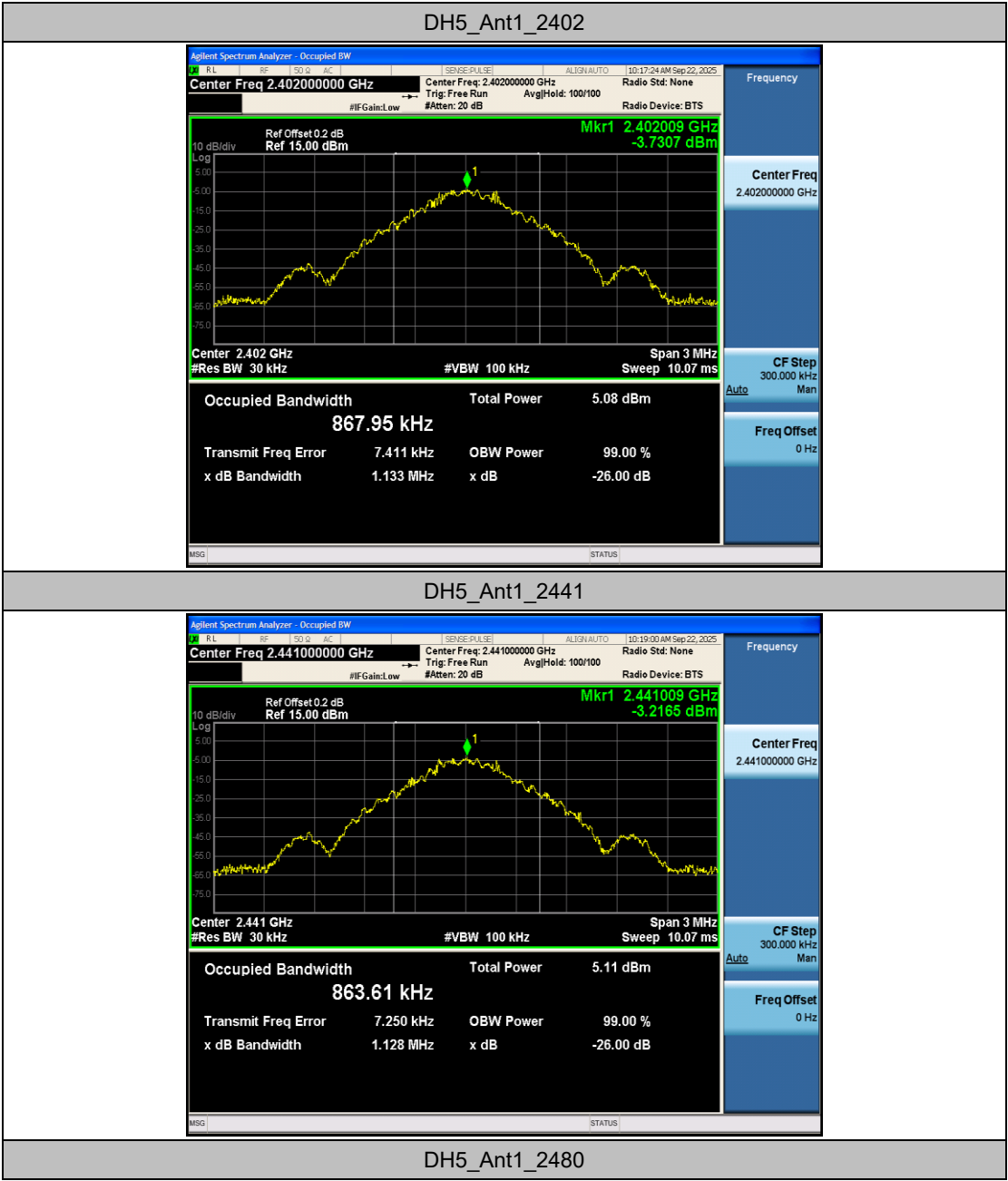


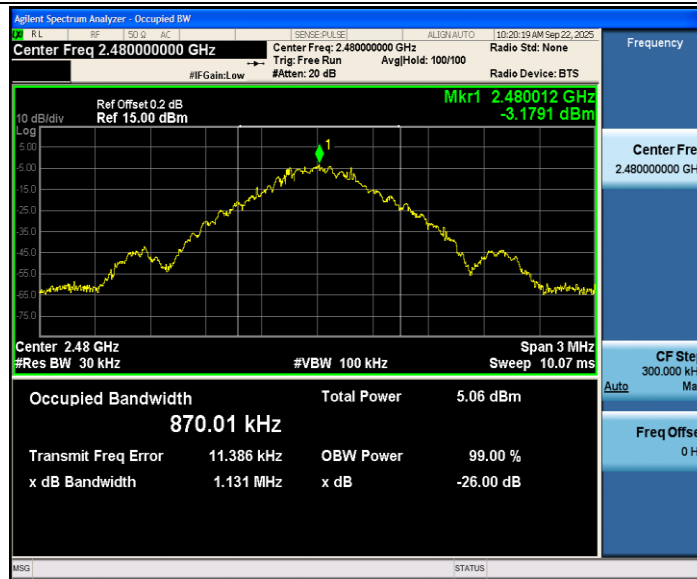
Appendix B: Occupied Channel Bandwidth

Test Result

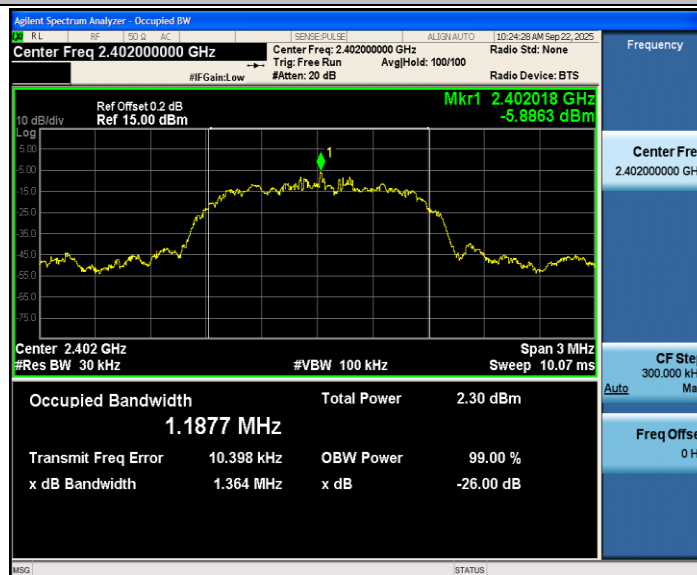
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86795	2401.5734	2402.4414	---	---
		2441	0.86361	2440.5754	2441.4391	---	---
		2480	0.87001	2479.5764	2480.4464	---	---
2DH5	Ant1	2402	1.1877	2401.4166	2402.6043	---	---
		2441	1.1867	2440.4170	2441.6037	---	---
		2480	1.1937	2479.4148	2480.6085	---	---
3DH5	Ant1	2402	1.1856	2401.4162	2402.6018	---	---
		2441	1.1892	2440.4152	2441.6044	---	---
		2480	1.1823	2479.4183	2480.6006	---	---

Test Graphs

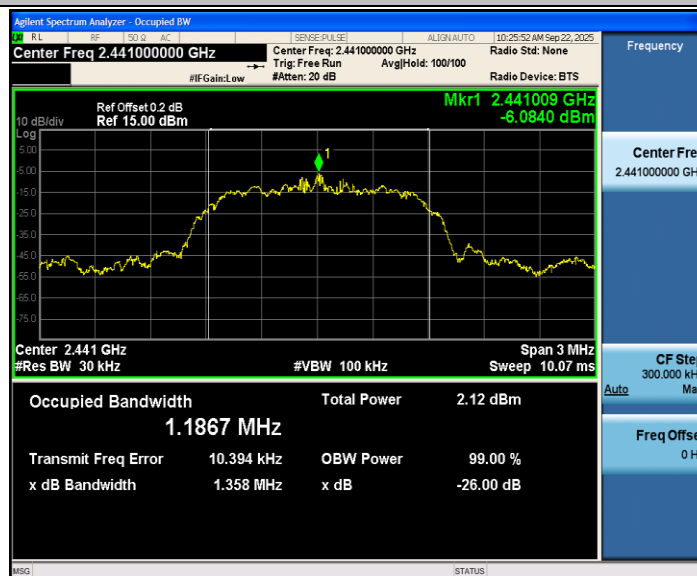




2DH5_Ant1_2402



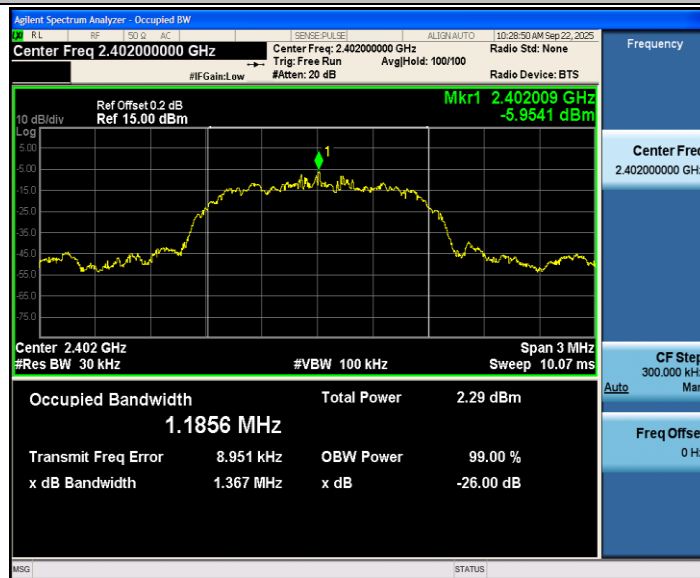
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_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	-0.77	≤20.97	PASS
		2441	-0.83	≤20.97	PASS
		2480	-0.77	≤20.97	PASS
2DH5	Ant1	2402	-1.20	≤20.97	PASS
		2441	-1.43	≤20.97	PASS
		2480	-1.56	≤20.97	PASS
3DH5	Ant1	2402	-1.23	≤20.97	PASS
		2441	-1.45	≤20.97	PASS
		2480	-1.55	≤20.97	PASS

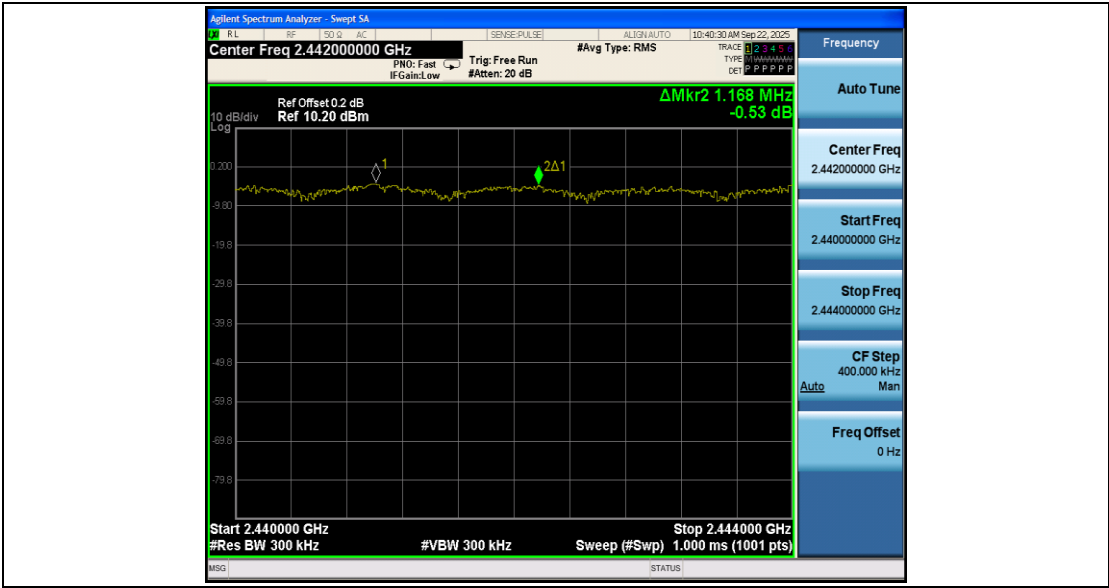
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 0.954	PASS
2DH5	Ant1	Hop	1.024	≥ 0.878	PASS
3DH5	Ant1	Hop	1.168	≥ 0.898	PASS

Test Graphs



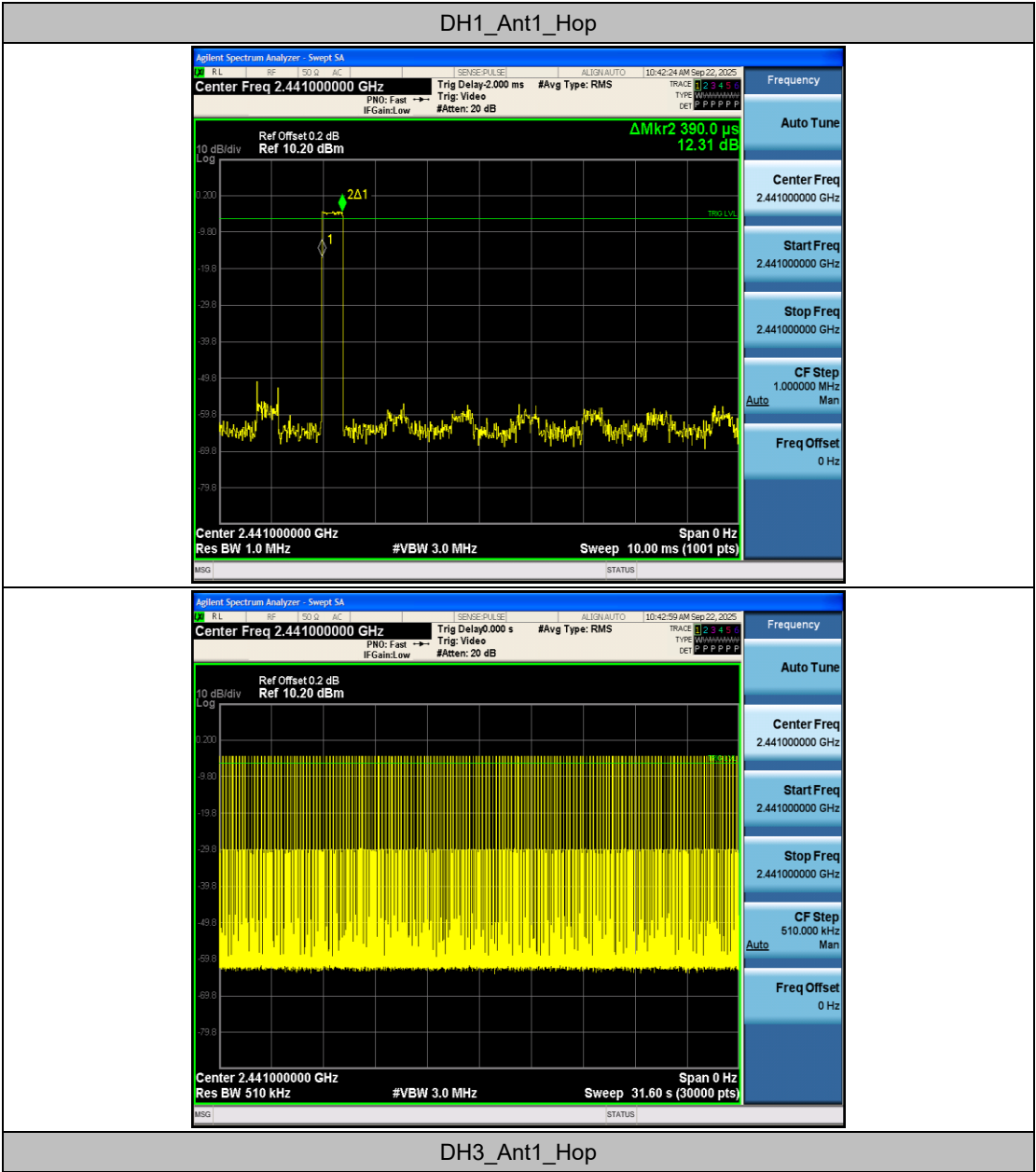


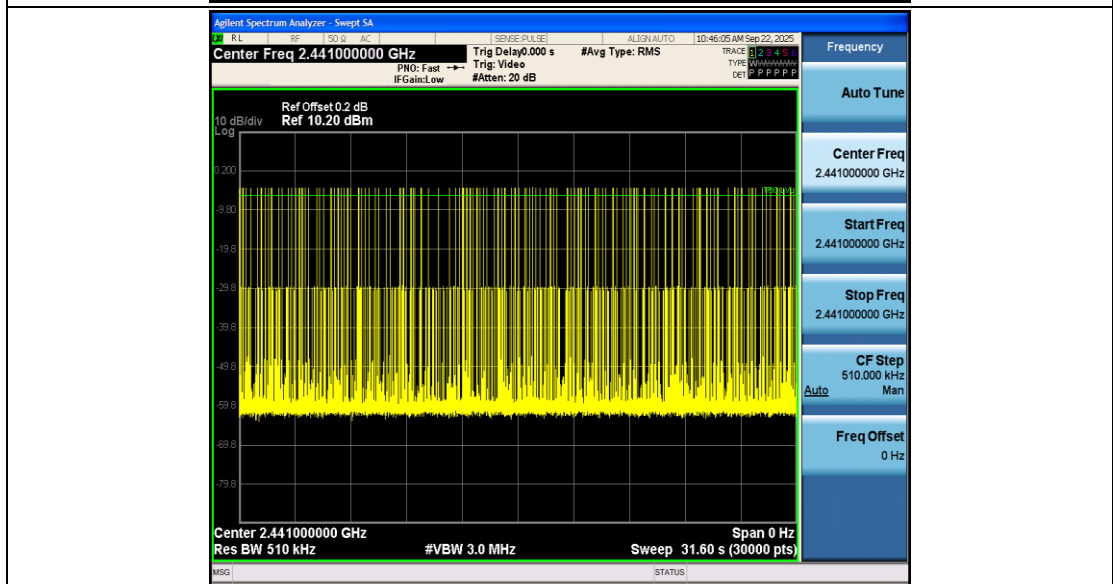
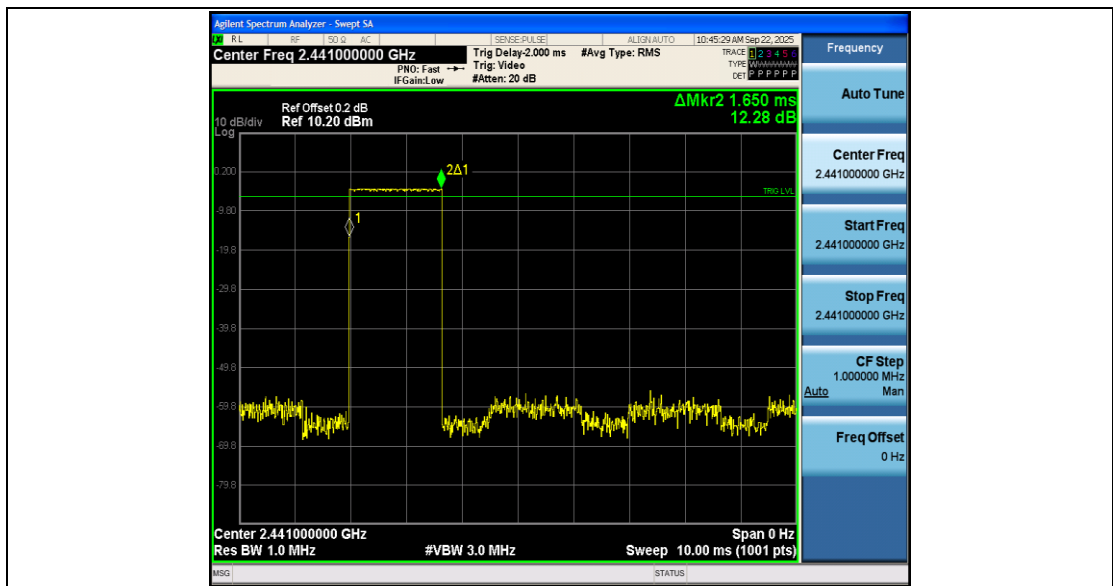
Appendix E: Time of occupancy

Test Result

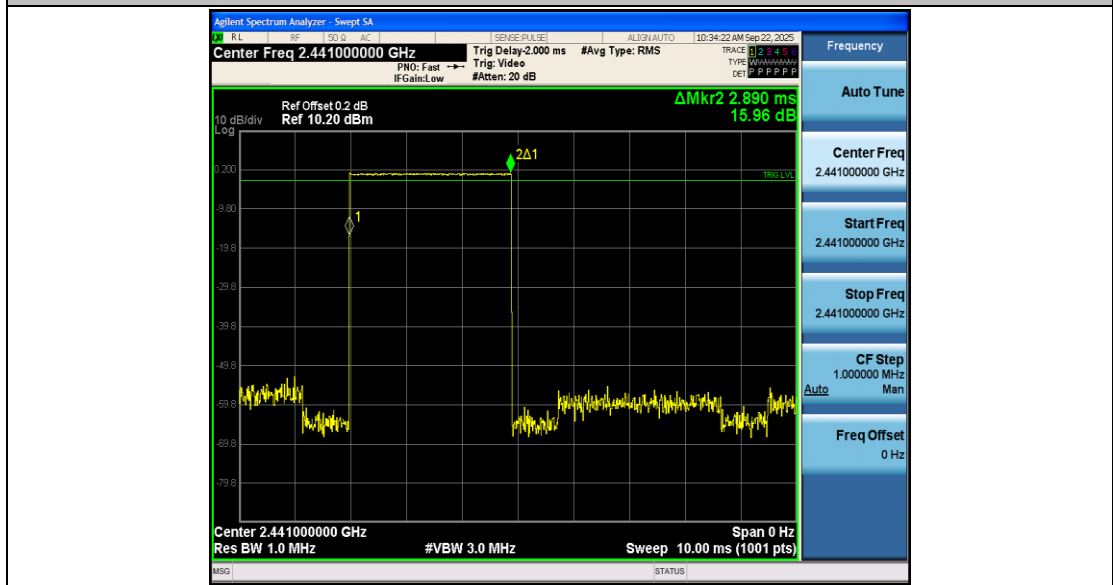
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	157	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.890	98	0.283	≤0.4	PASS
2DH1	Ant1	Hop	0.390	314	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.640	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.900	103	0.299	≤0.4	PASS
3DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.640	162	0.266	≤0.4	PASS
3DH5	Ant1	Hop	2.900	108	0.313	≤0.4	PASS

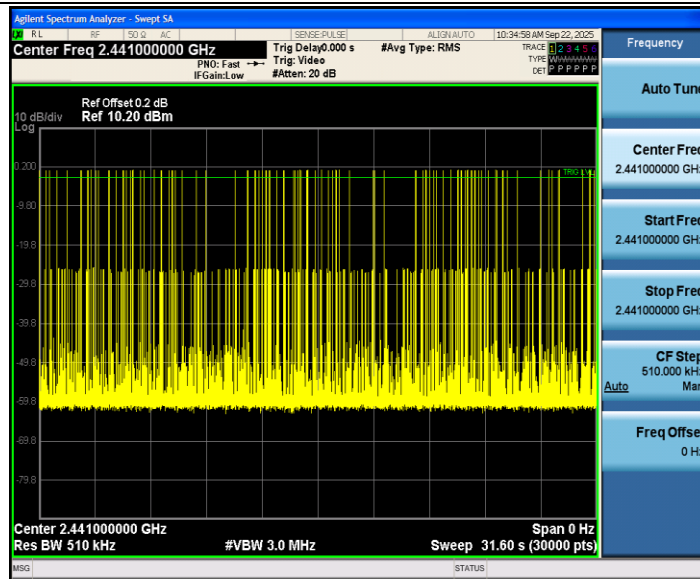
Test Graphs



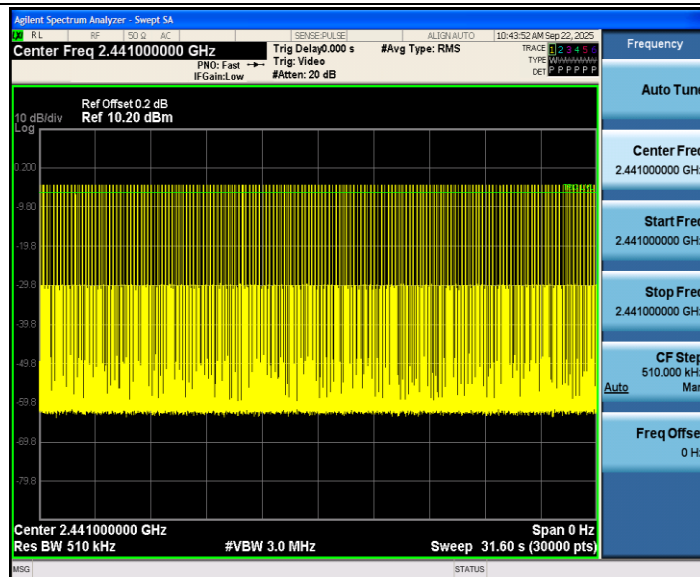
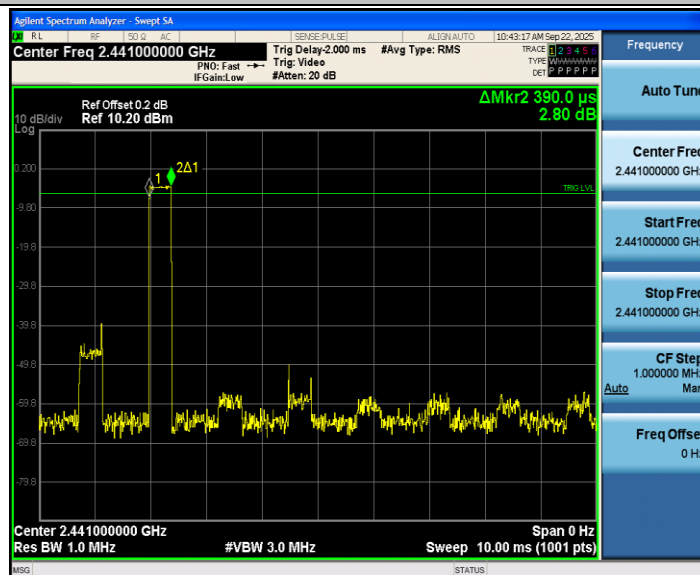


DH5_Ant1_Hop

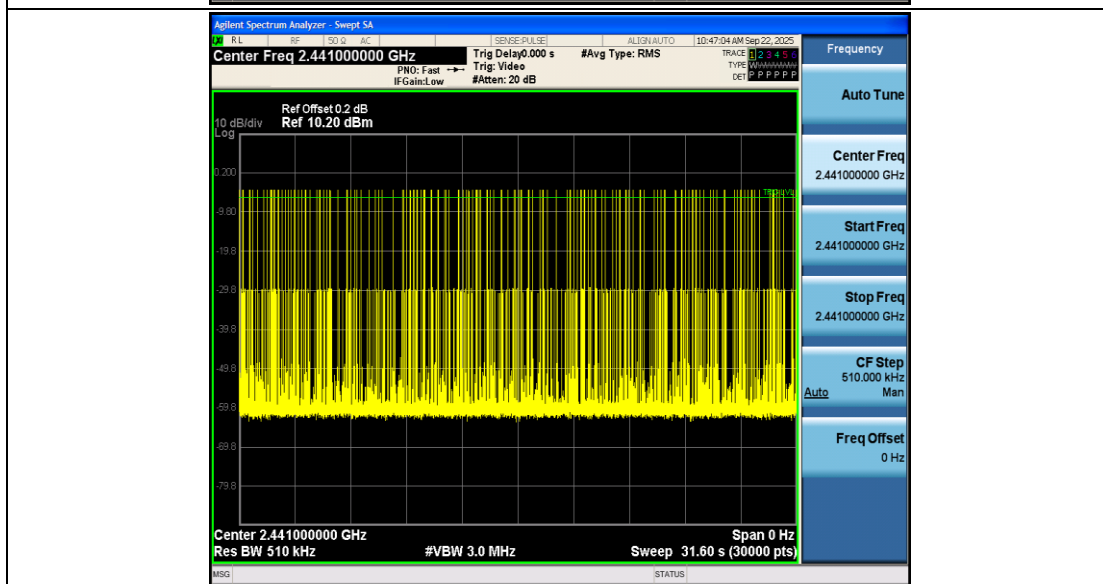
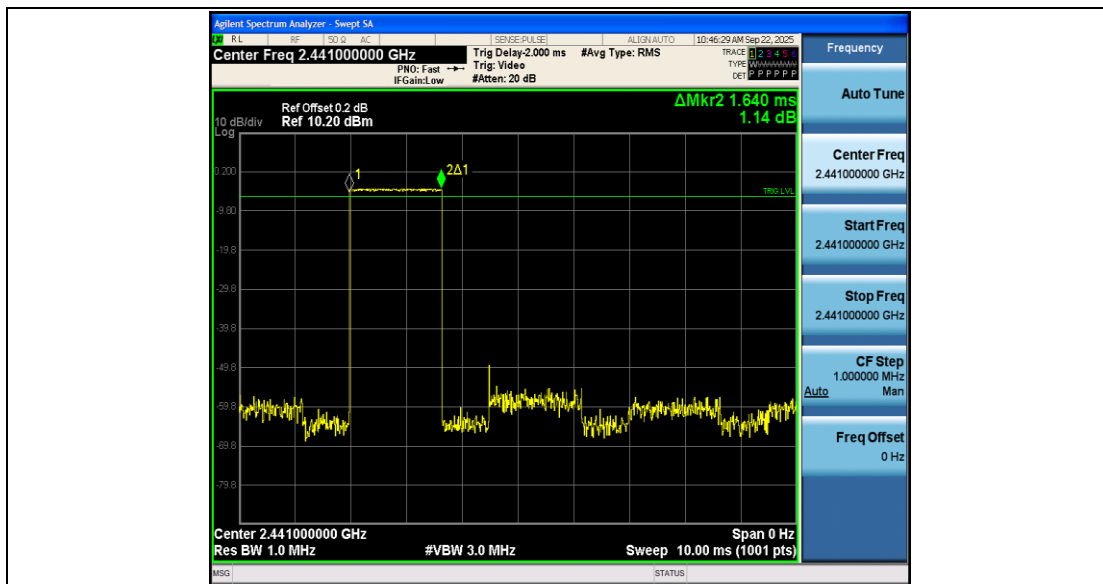




2DH1_Ant1_Hop

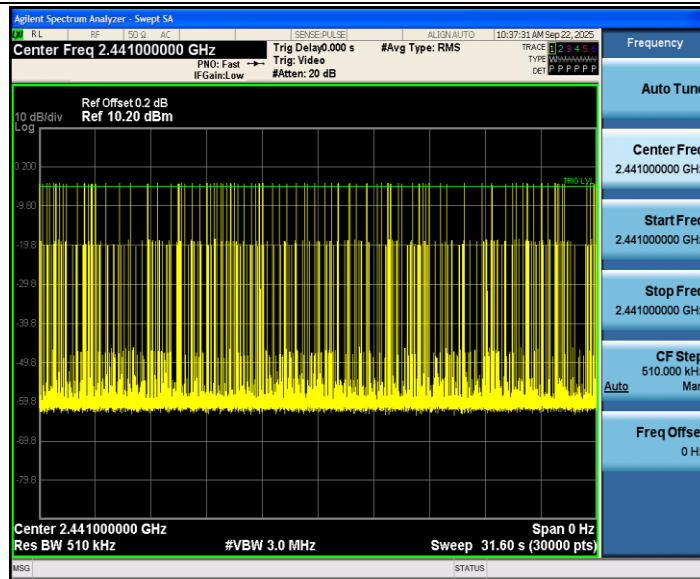


2DH3_Ant1_Hop

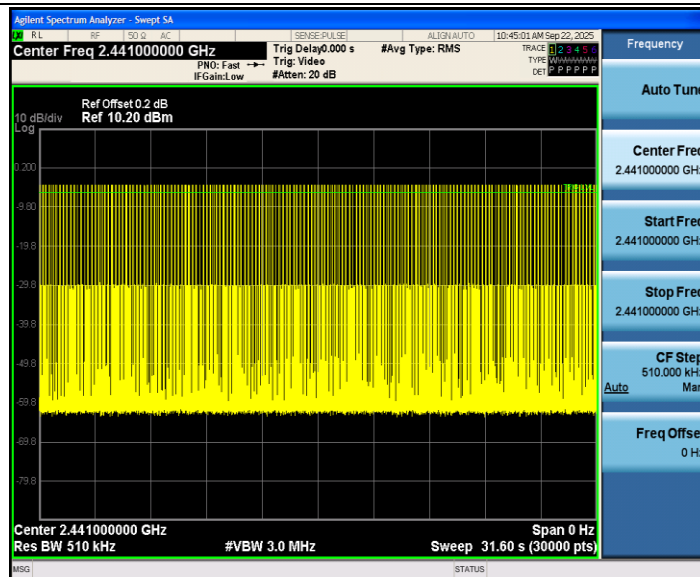
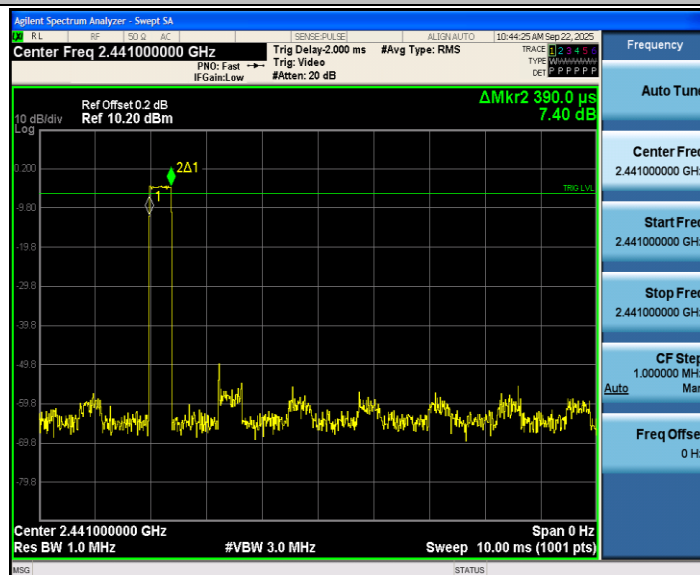


2DH5_Ant1_Hop

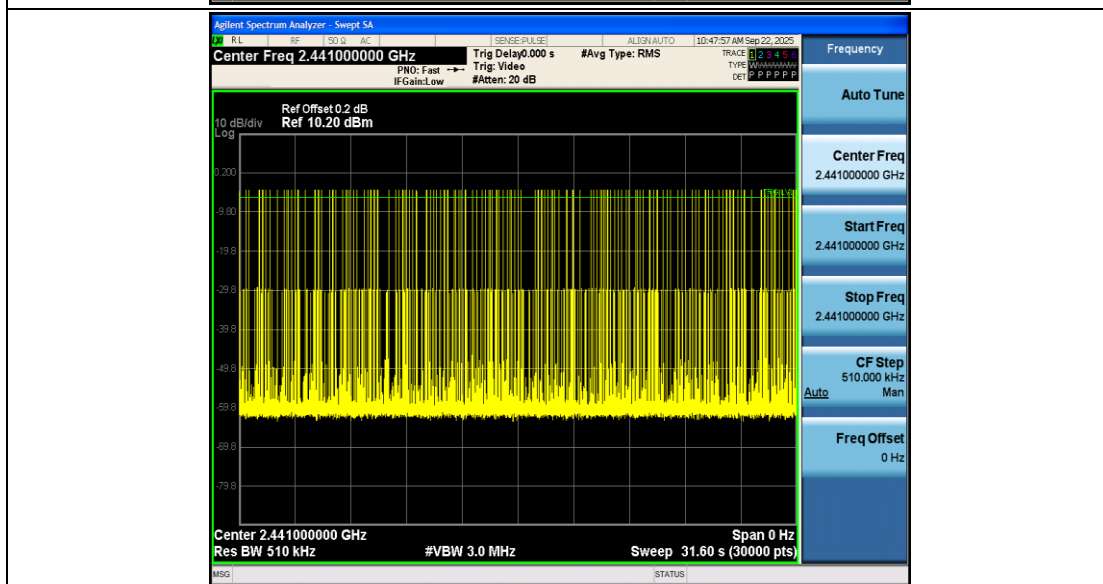




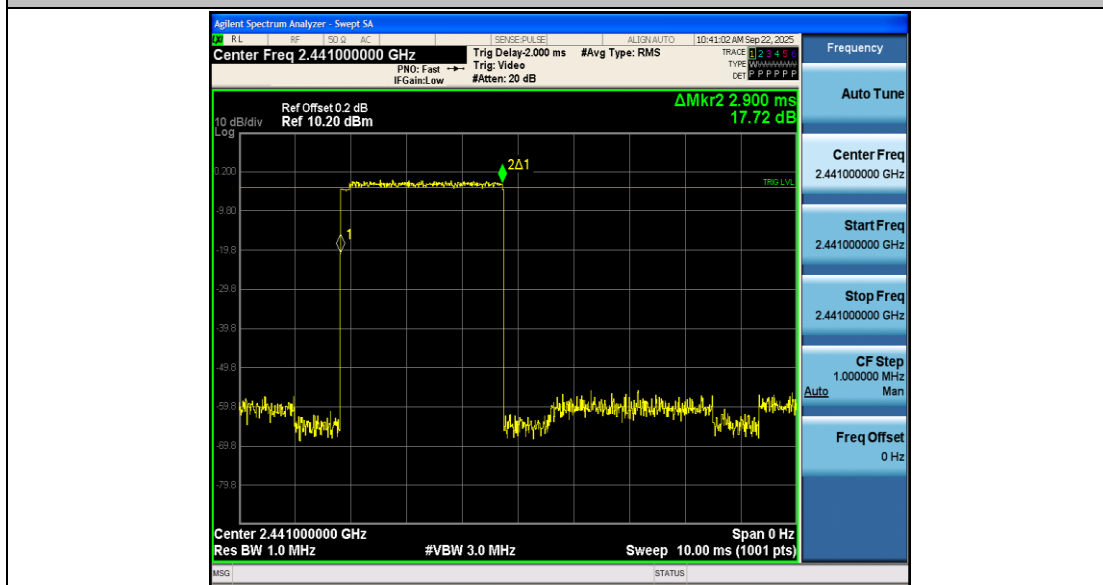
3DH1_Ant1_Hop

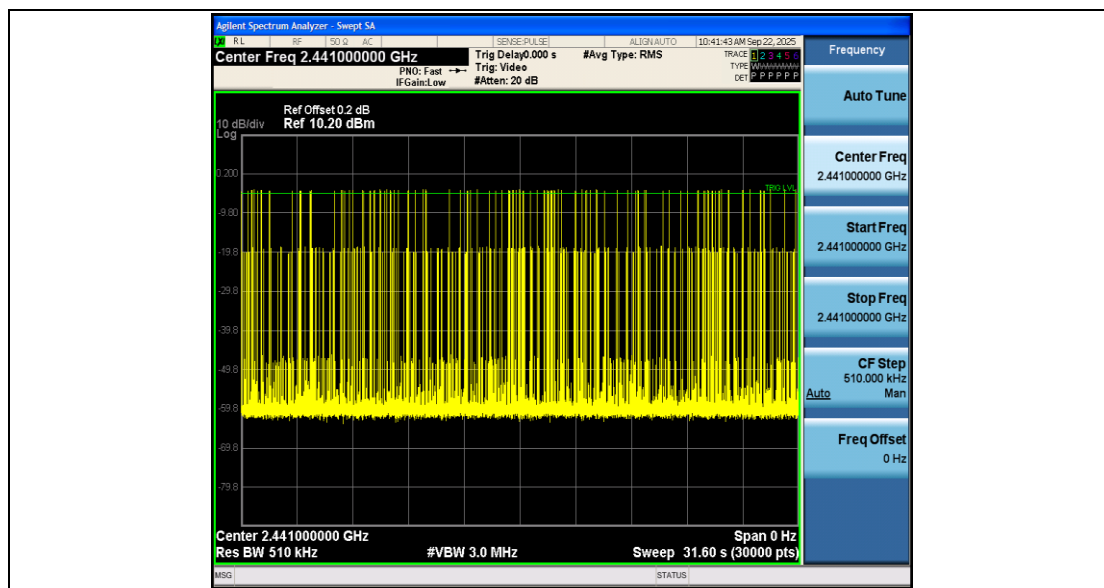


3DH3_Ant1_Hop



3DH5_Ant1_Hop





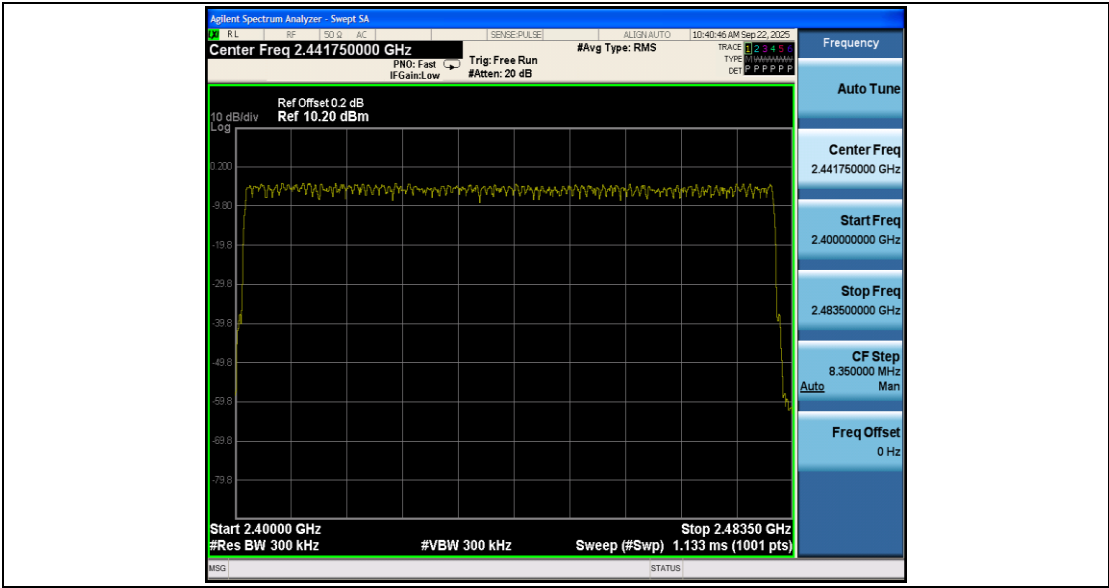
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



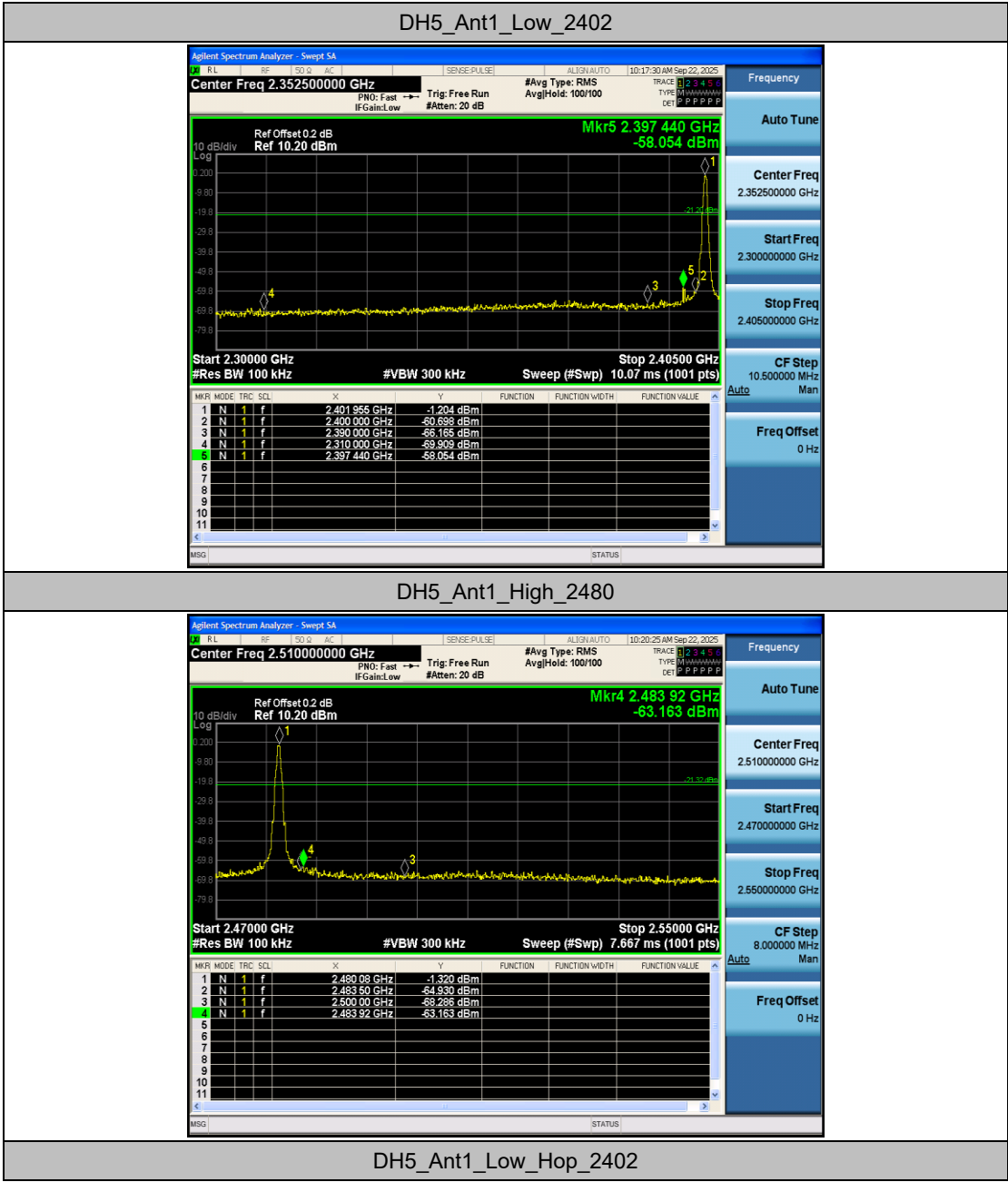


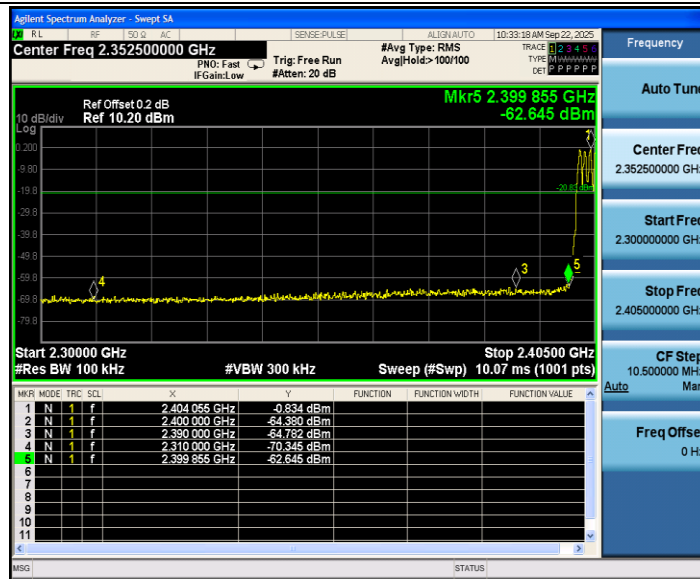
Appendix G: Band edge measurements

Test Result

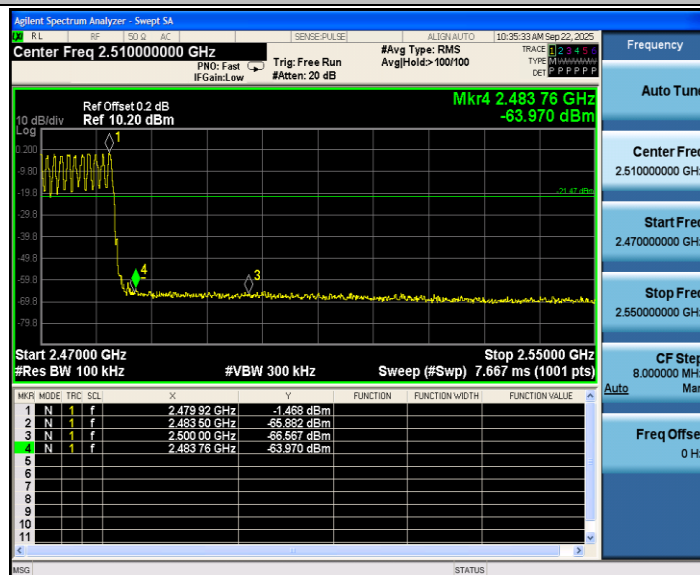
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.20	-58.05	≤ -21.2	PASS
		High	2480	-1.32	-63.16	≤ -21.32	PASS
		Low	Hop_2402	-0.83	-62.65	≤ -20.83	PASS
		High	Hop_2480	-1.47	-63.97	≤ -21.47	PASS
2DH5	Ant1	Low	2402	-6.53	-60.65	≤ -26.53	PASS
		High	2480	-5.52	-60.06	≤ -25.52	PASS
		Low	Hop_2402	-5.95	-63.43	≤ -25.95	PASS
		High	Hop_2480	-4.21	-57.27	≤ -24.21	PASS
3DH5	Ant1	Low	2402	-4.80	-55.98	≤ -24.8	PASS
		High	2480	-5.66	-63.11	≤ -25.66	PASS
		Low	Hop_2402	-6.58	-60.48	≤ -26.58	PASS
		High	Hop_2480	-5.56	-65.01	≤ -25.56	PASS

Test Graphs

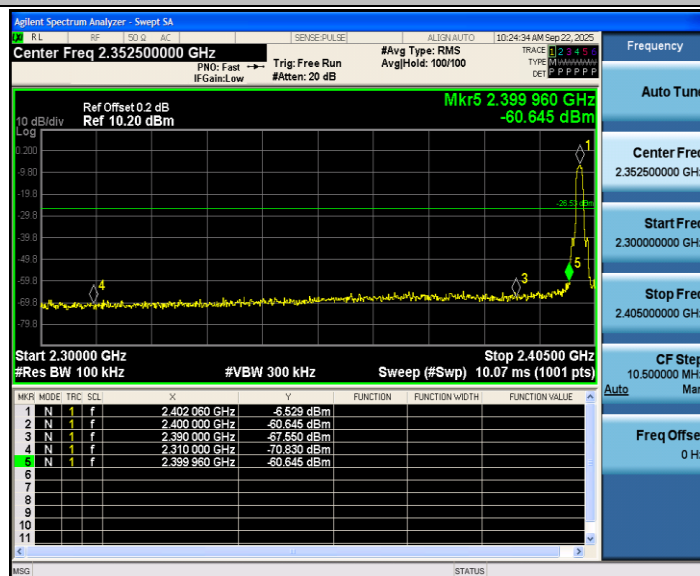




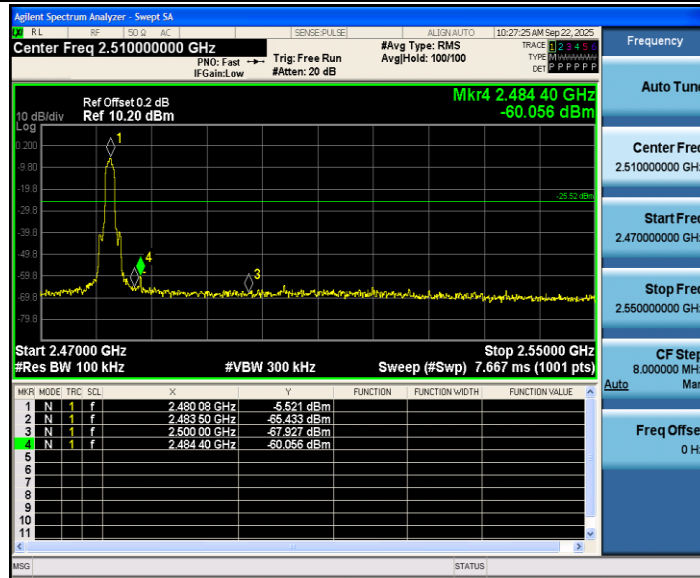
DH5_Ant1_High_Hop_2480



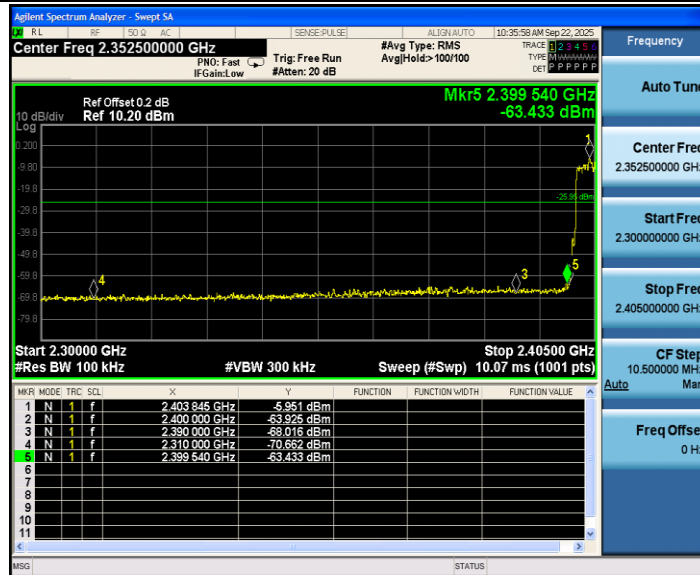
2DH5_Ant1_Low_2402



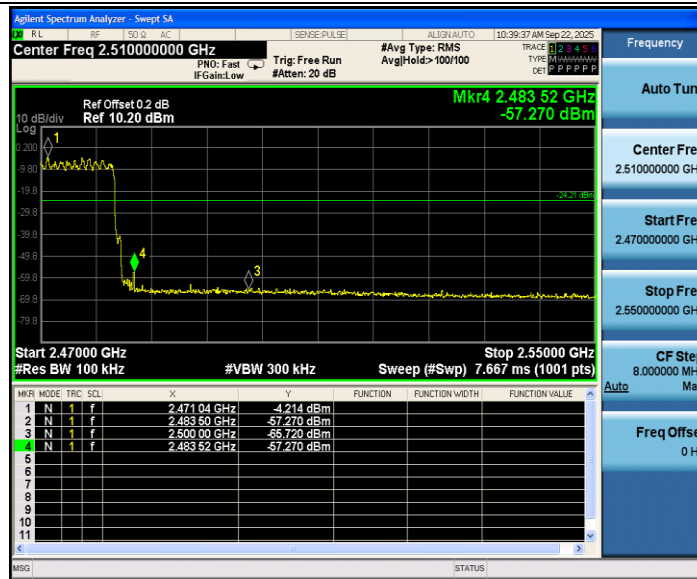
2DH5_Ant1_High_2480



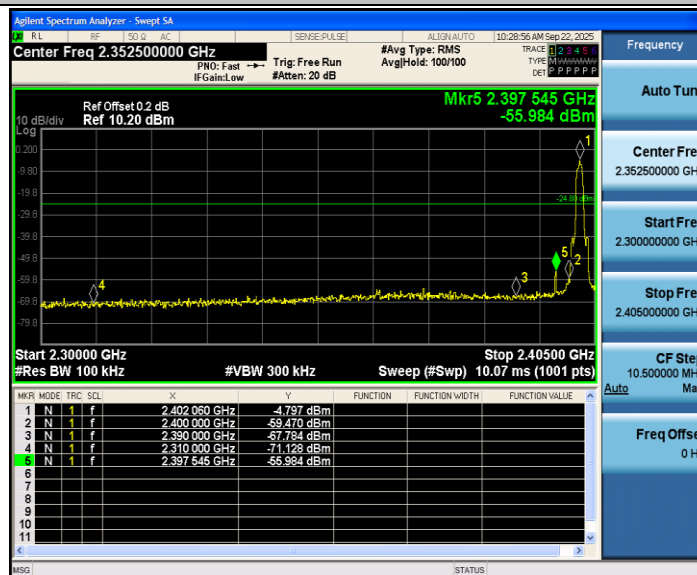
2DH5_Ant1_Low_Hop_2402



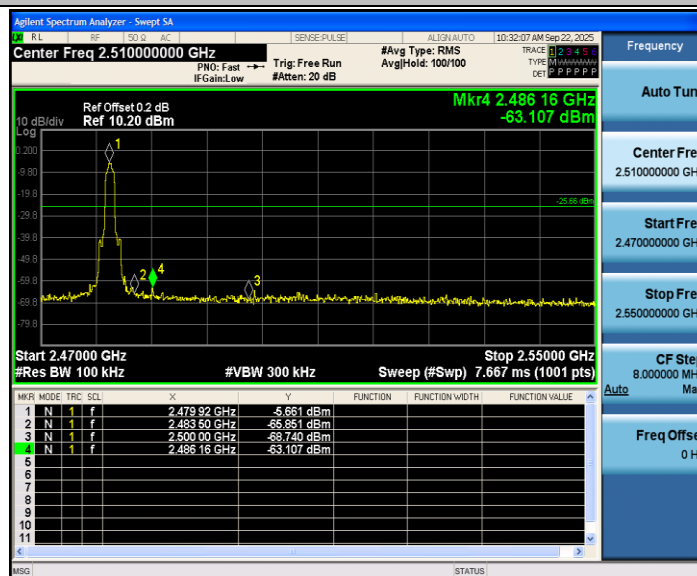
2DH5_Ant1_High_Hop_2480



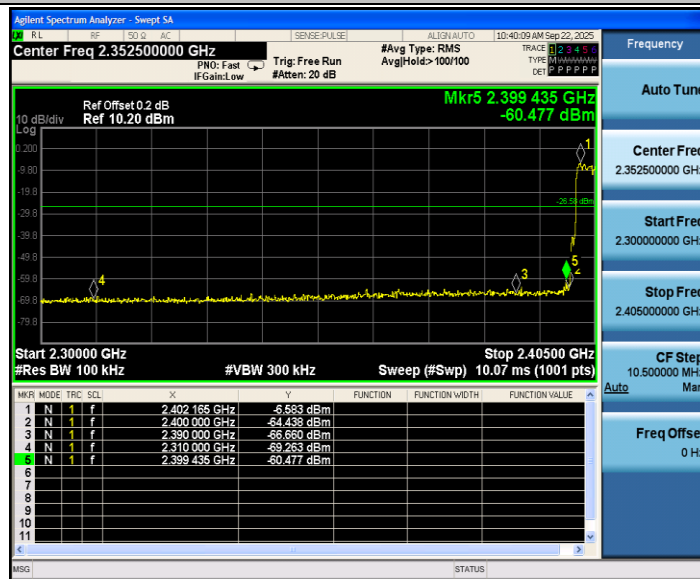
3DH5_Ant1_Low_2402



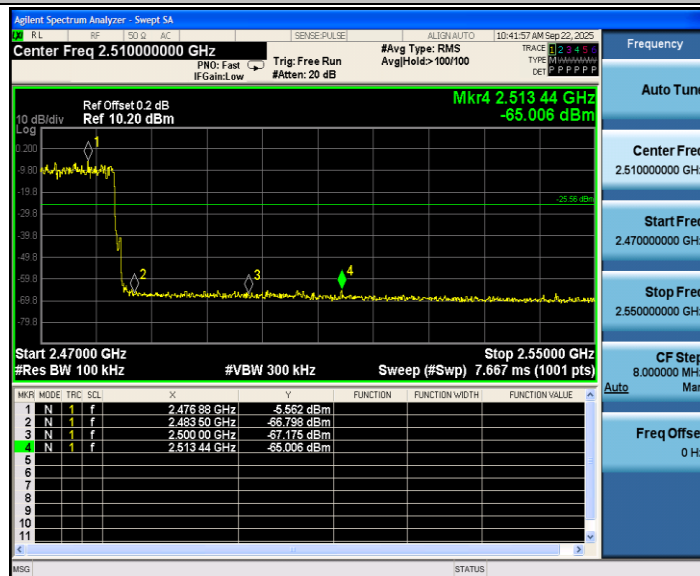
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

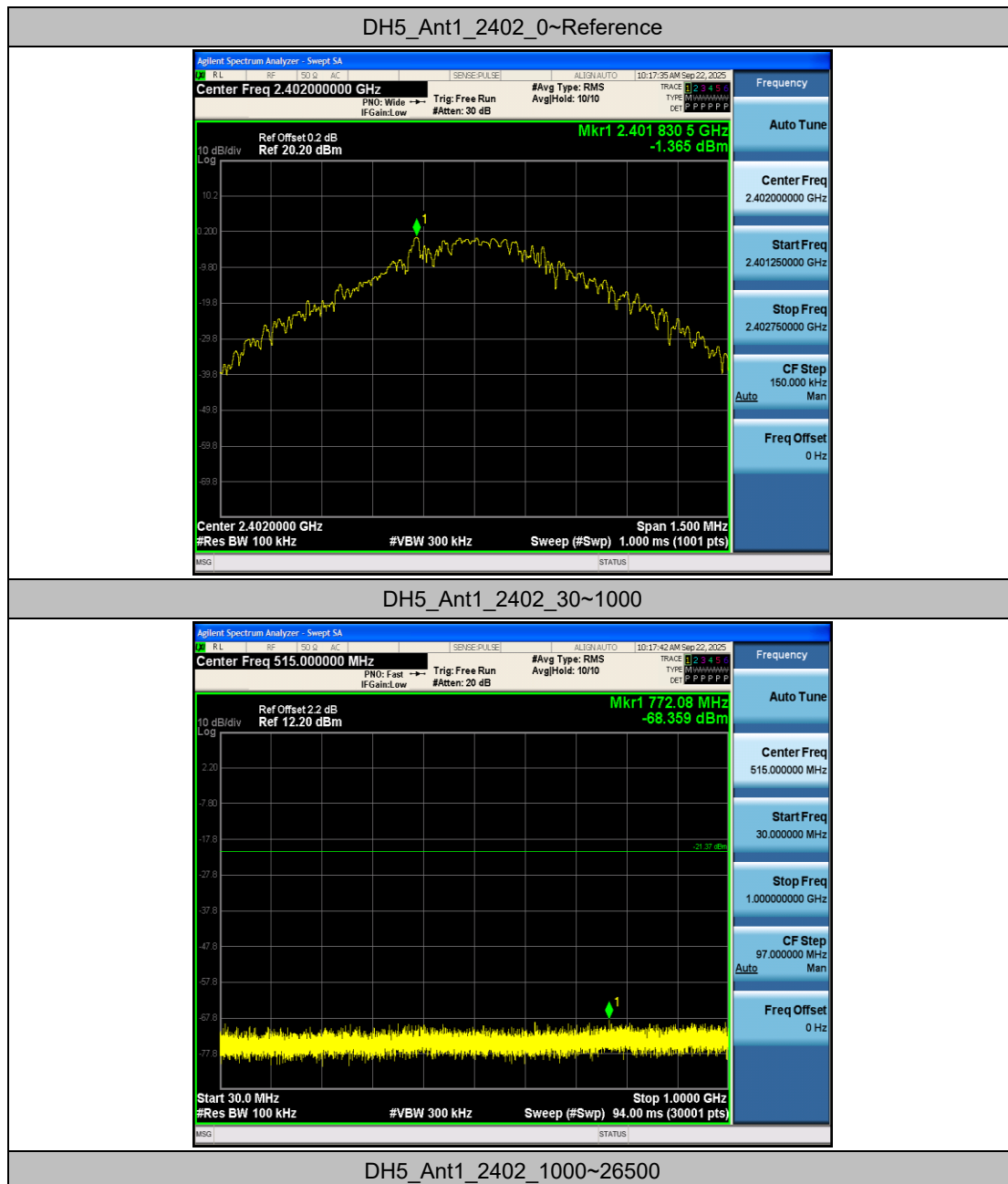


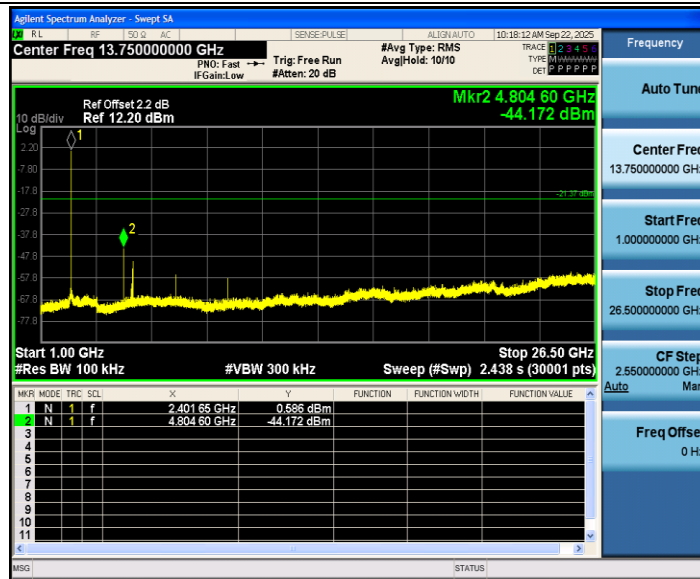
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-68.36	≤-21.37	PASS
			1000~26500	-1.37	-44.17	≤-21.37	PASS
		2441	Reference	-1.51	-1.51	---	PASS
			30~1000	-1.51	-67.74	≤-21.51	PASS
			1000~26500	-1.51	-44.12	≤-21.51	PASS
		2480	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-68.36	≤-21.43	PASS
			1000~26500	-1.43	-41.62	≤-21.43	PASS
2DH5	Ant1	2402	Reference	-5.73	-5.73	---	PASS
			30~1000	-5.73	-68.25	≤-25.73	PASS
			1000~26500	-5.73	-50.42	≤-25.73	PASS
		2441	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-67.96	≤-25.02	PASS
			1000~26500	-5.02	-49.95	≤-25.02	PASS
		2480	Reference	-6.36	-6.36	---	PASS
			30~1000	-6.36	-68.62	≤-26.36	PASS
			1000~26500	-6.36	-50.07	≤-26.36	PASS
3DH5	Ant1	2402	Reference	-5.99	-5.99	---	PASS
			30~1000	-5.99	-67.82	≤-25.99	PASS
			1000~26500	-5.99	-49.15	≤-25.99	PASS
		2441	Reference	-5.41	-5.41	---	PASS
			30~1000	-5.41	-67.95	≤-25.41	PASS
			1000~26500	-5.41	-50.37	≤-25.41	PASS
		2480	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-68.03	≤-25.2	PASS
			1000~26500	-5.20	-48.64	≤-25.2	PASS

Test Graphs

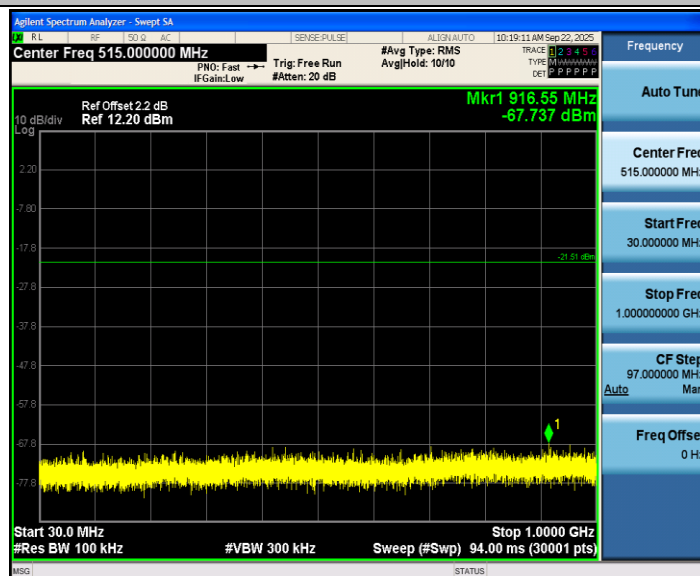




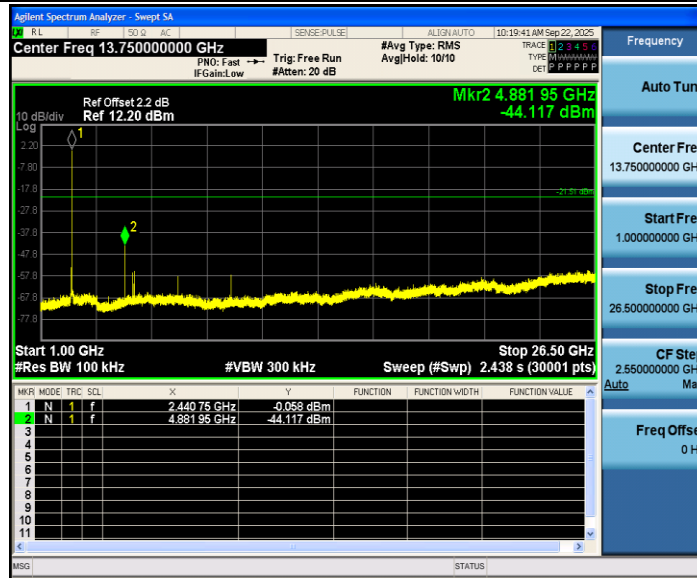
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



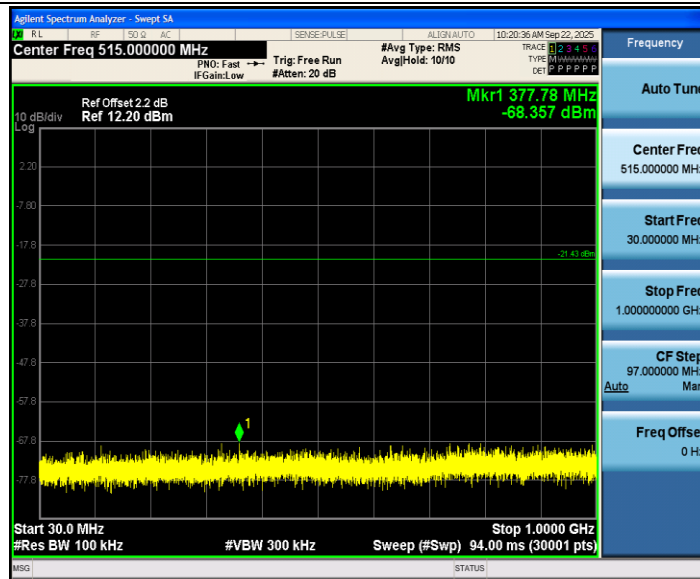
DH5_Ant1_2441_1000~26500



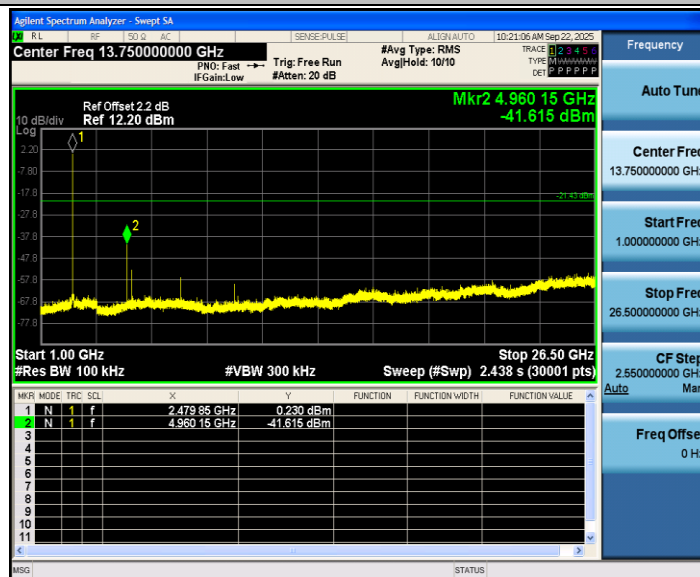
DH5_Ant1_2480_0~Reference



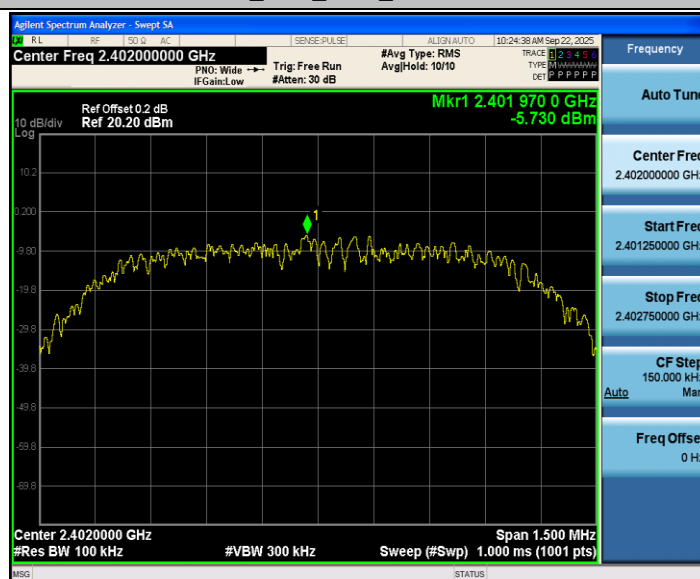
DH5_Ant1_2480_30~1000



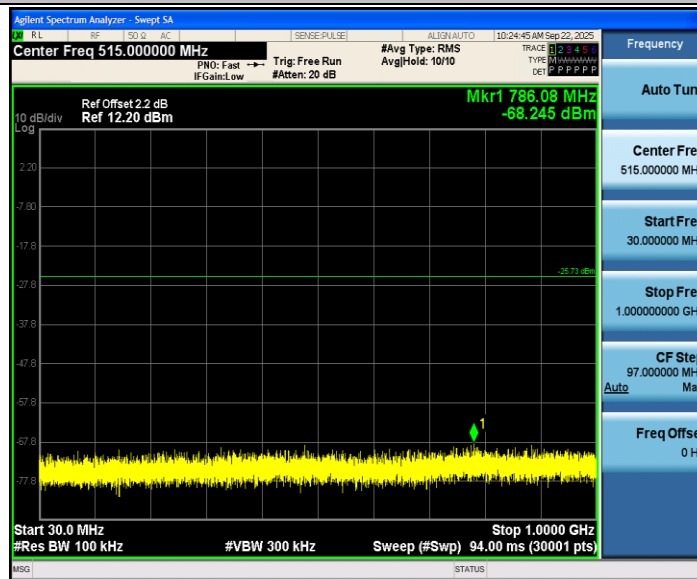
DH5_Ant1_2480_1000~26500



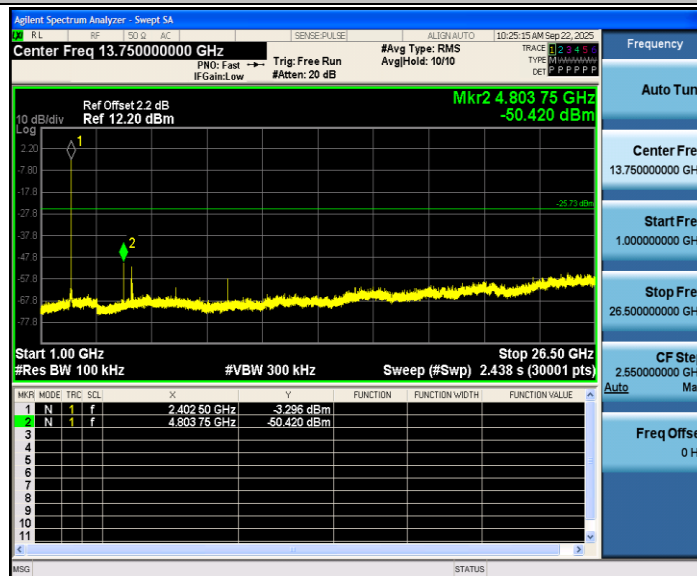
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference