

FCC Appendix RF Test Data for BT

FCC ID : **2A8LG-EY6A016**

Company: : **COOLING Spolka z o.o.**

EUT : **EY6A016 LIV Plus Wireless**
EY6A017 LIV Plus Wireless Onyx White

Model Number : **EY6A016**

Report No. **CTA25040300502**

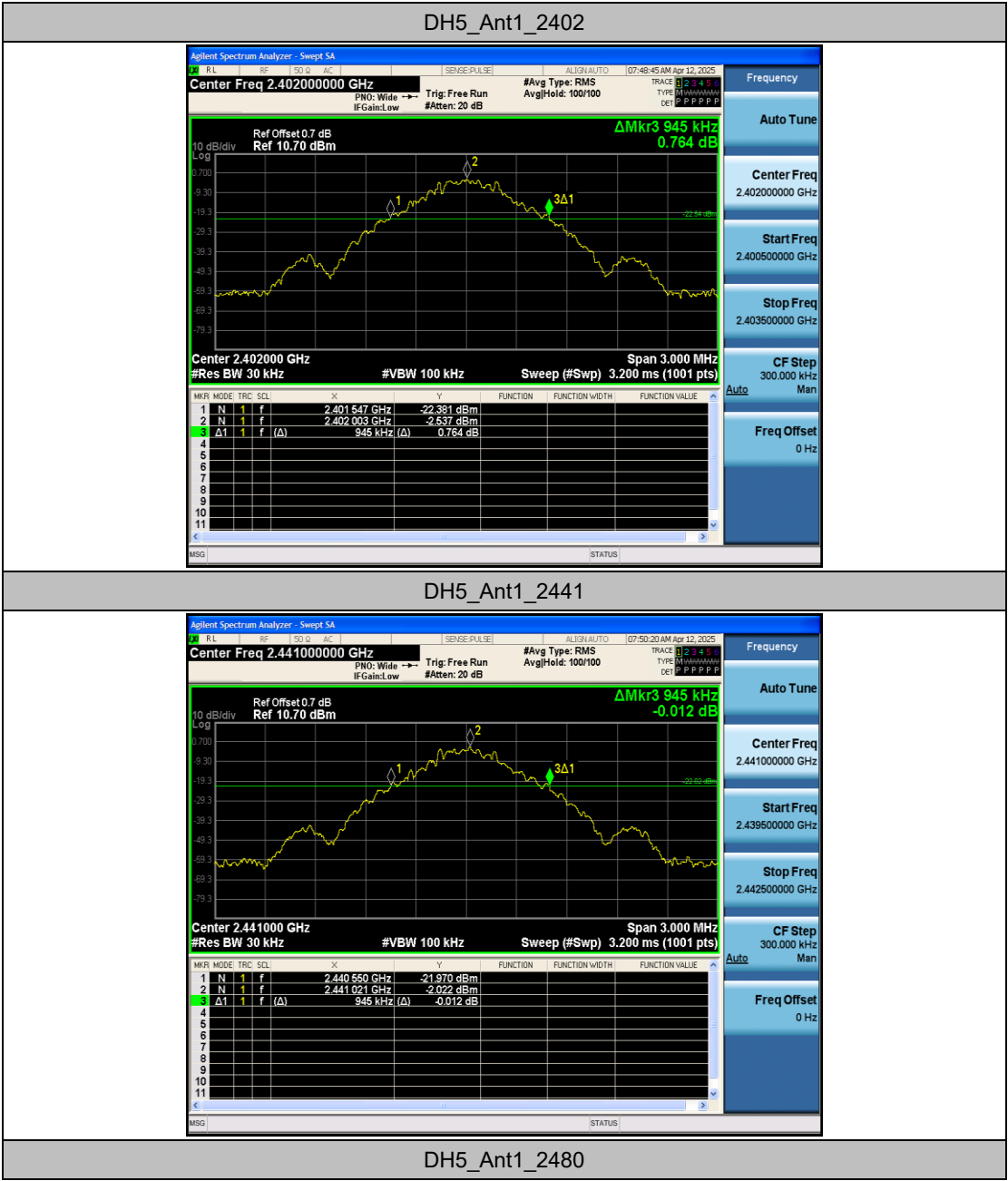
Reviewed By : **Eric Wang**

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	2401.547	2402.492	---	---
		2441	0.945	2440.550	2441.495	---	---
		2480	0.951	2479.547	2480.498	---	---
2DH5	Ant1	2402	1.326	2401.343	2402.669	---	---
		2441	1.278	2440.379	2441.657	---	---
		2480	1.317	2479.352	2480.669	---	---
3DH5	Ant1	2402	1.329	2401.349	2402.678	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.335	2479.343	2480.678	---	---

Test Graphs





2DHS_Ant1_2402



2DHS_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



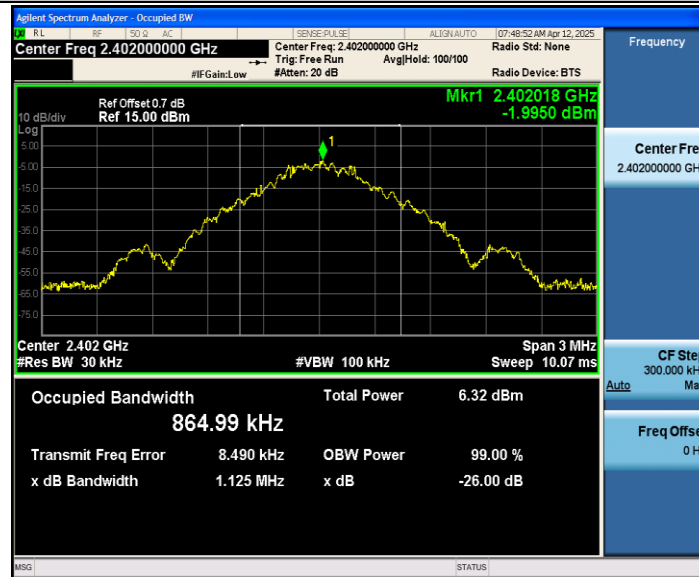
Appendix B: Occupied Channel Bandwidth

Test Result

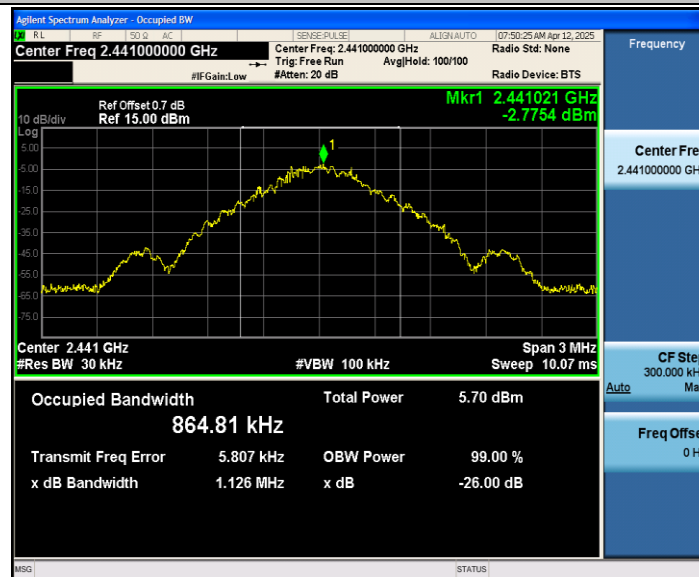
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86499	2401.5760	2402.4410	---	---
		2441	0.86481	2440.5734	2441.4382	---	---
		2480	0.86494	2479.5774	2480.4424	---	---
2DH5	Ant1	2402	1.1888	2401.4152	2402.6040	---	---
		2441	1.1939	2440.4139	2441.6078	---	---
		2480	1.1908	2479.4140	2480.6048	---	---
3DH5	Ant1	2402	1.1898	2401.4153	2402.6051	---	---
		2441	1.1872	2440.4168	2441.6040	---	---
		2480	1.1867	2479.4174	2480.6041	---	---

Test Graphs

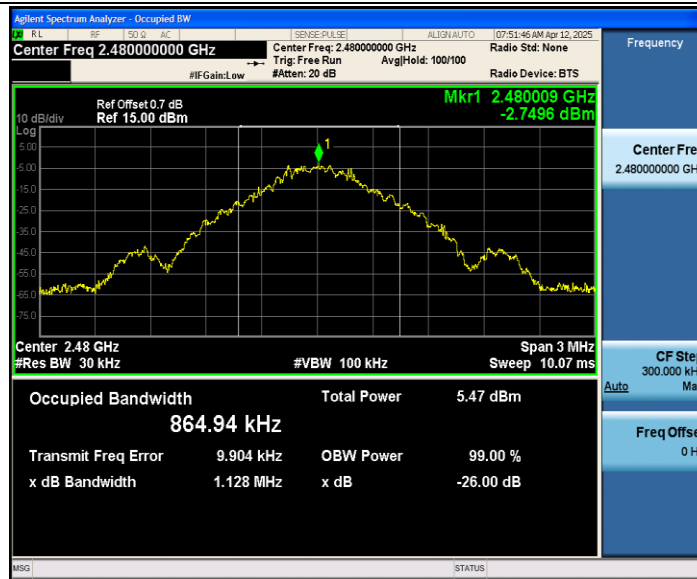
DH5_Ant1_2402



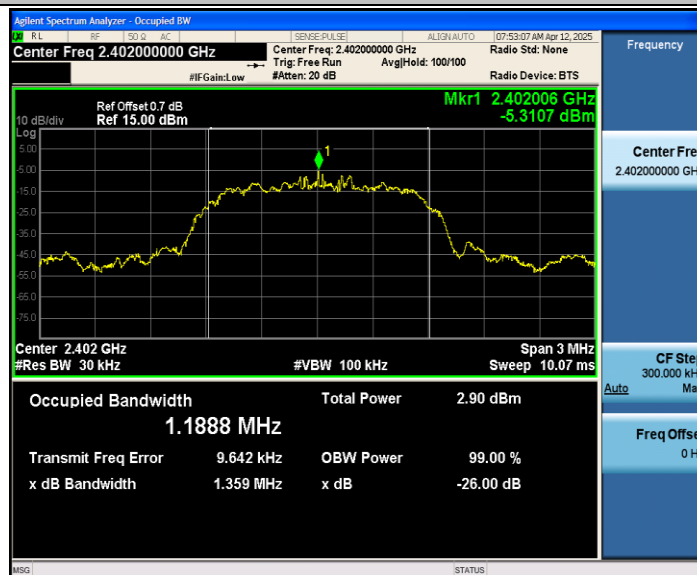
DH5_Ant1_2441



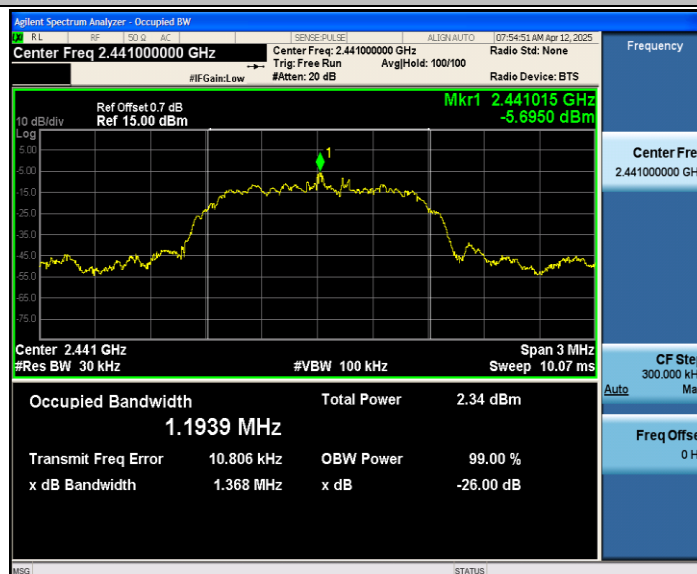
DH5_Ant1_2480



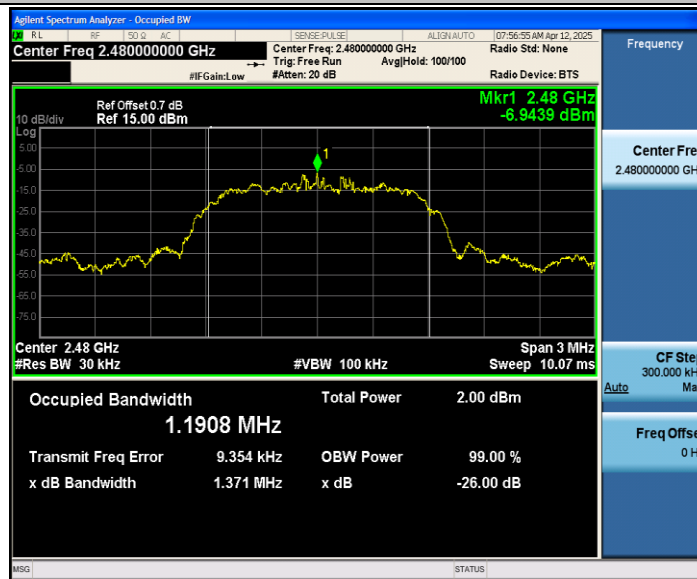
2DH5_Ant1_2402



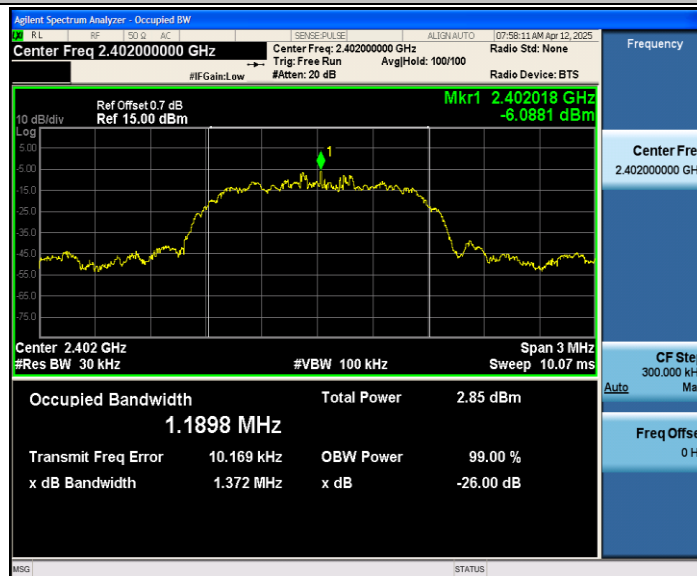
2DH5_Ant1_2441



2DH5_Ant1_2480



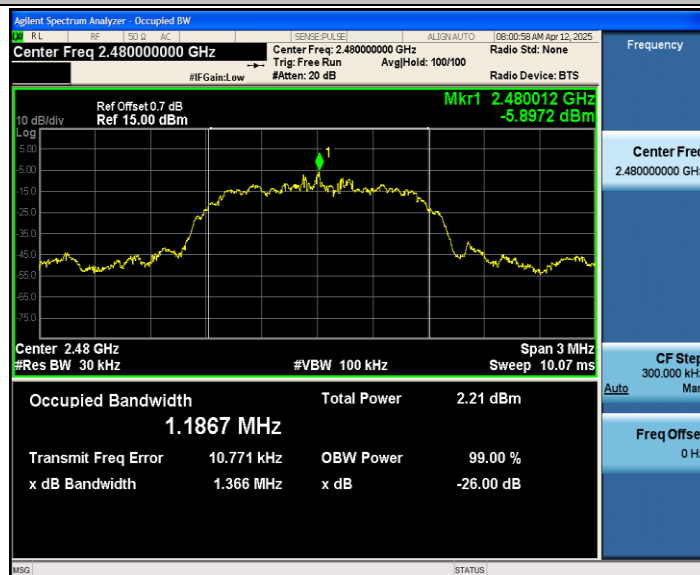
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

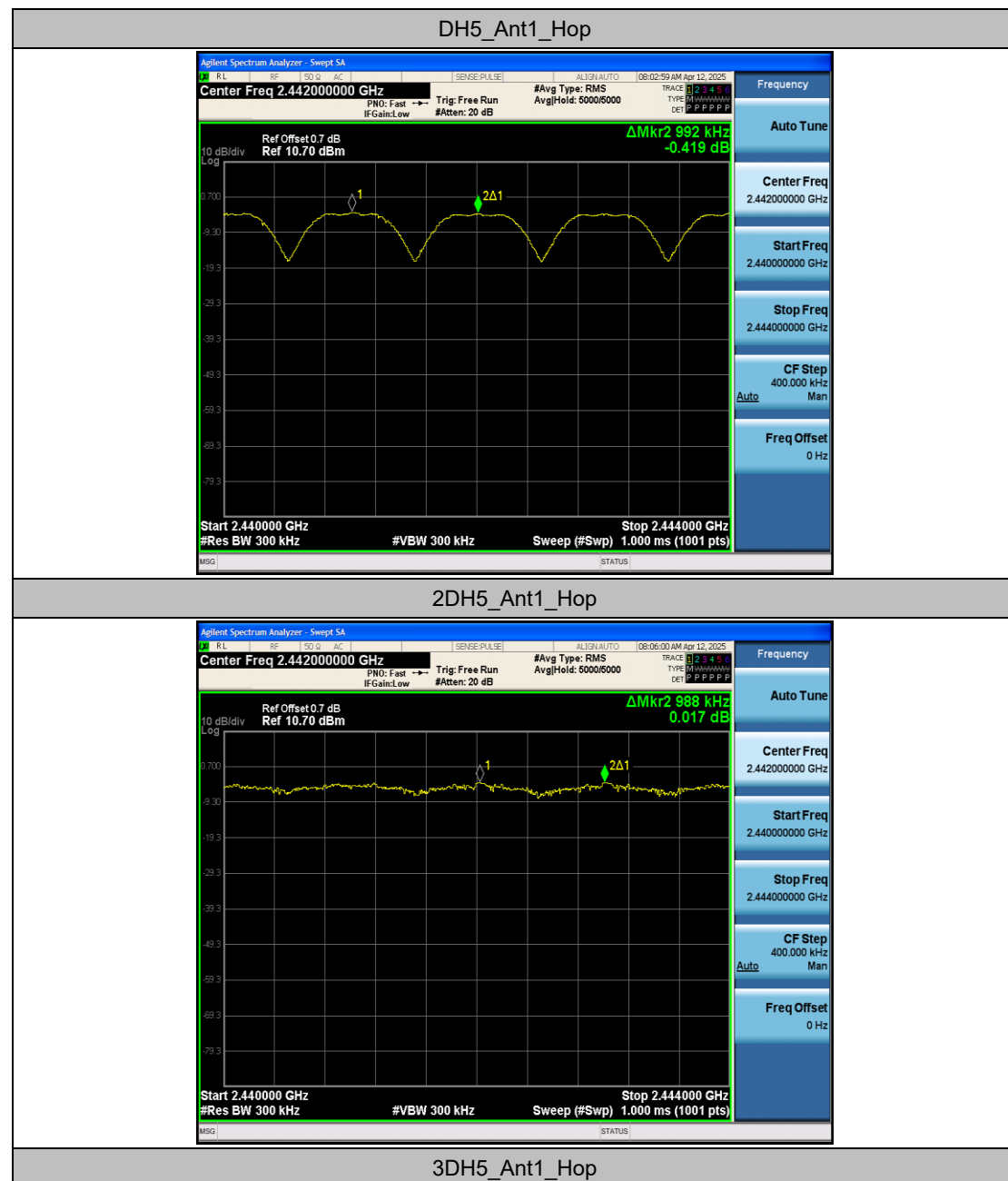
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.27	≤20.97	PASS
		2441	-0.21	≤20.97	PASS
		2480	-0.46	≤20.97	PASS
2DH5	Ant1	2402	-0.50	≤20.97	PASS
		2441	-1.03	≤20.97	PASS
		2480	-1.31	≤20.97	PASS
3DH5	Ant1	2402	-0.61	≤20.97	PASS
		2441	-1.06	≤20.97	PASS
		2480	-1.29	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.951	PASS
2DH5	Ant1	Hop	0.988	≥ 0.884	PASS
3DH5	Ant1	Hop	1.036	≥ 0.890	PASS

Test Graphs



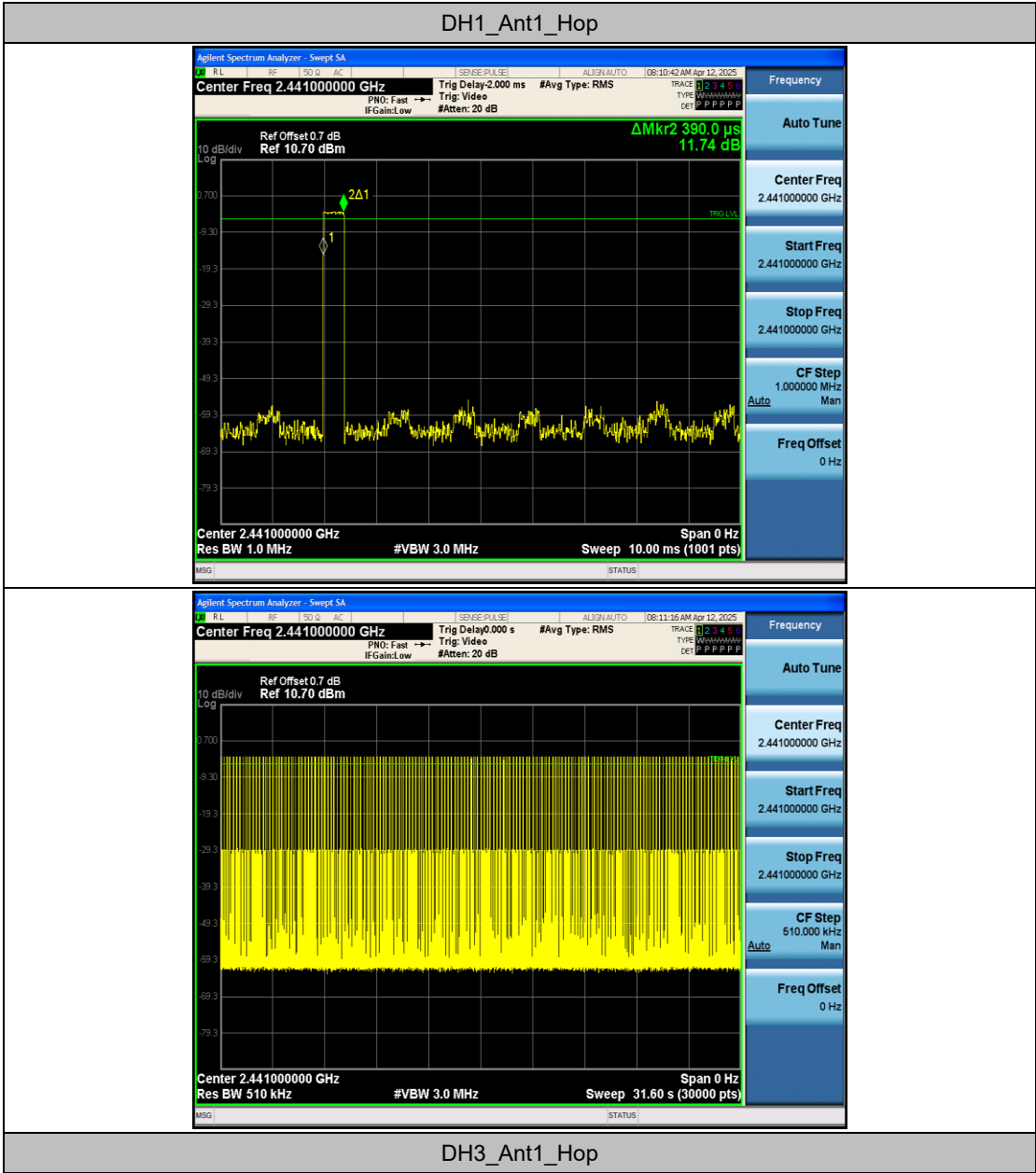


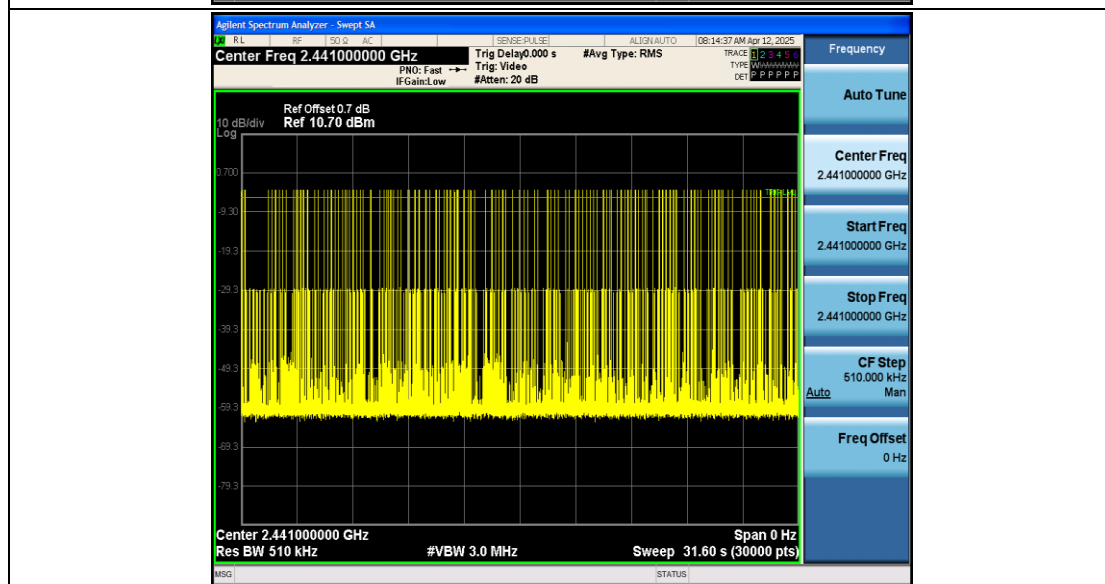
Appendix E: Time of occupancy

Test Result

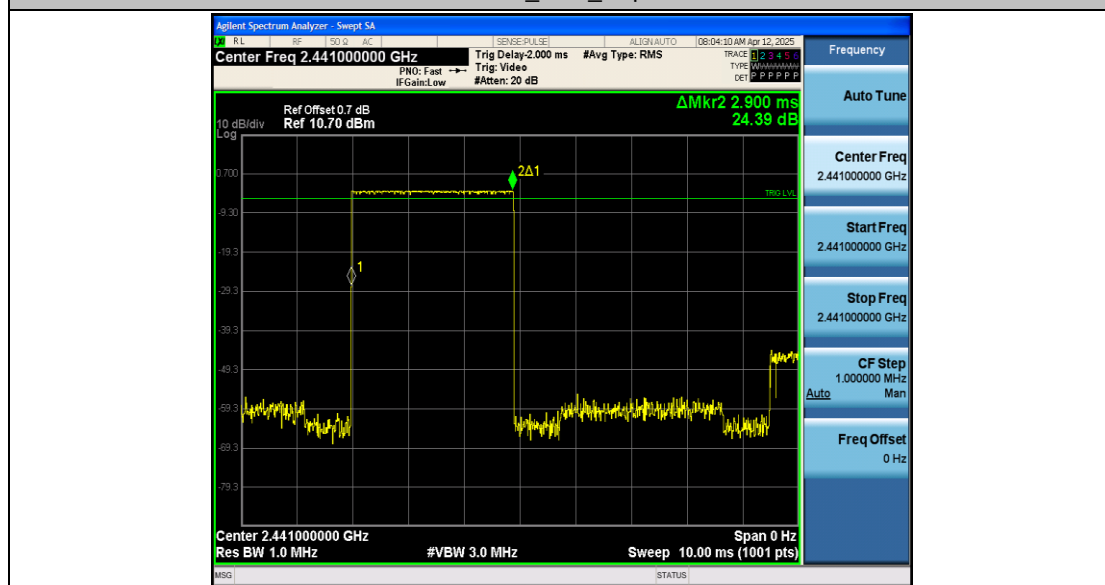
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	165	0.272	≤0.4	PASS
DH5	Ant1	Hop	2.900	108	0.313	≤0.4	PASS
2DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.650	168	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.900	103	0.299	≤0.4	PASS
3DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	153	0.251	≤0.4	PASS
3DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS

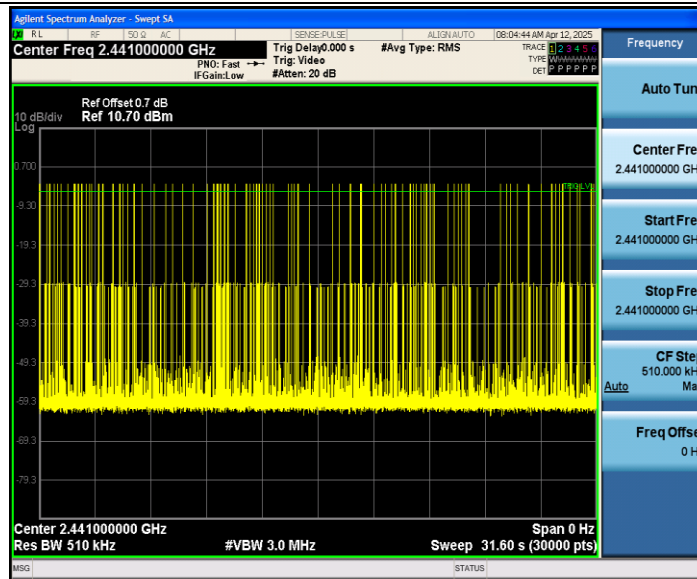
Test Graphs



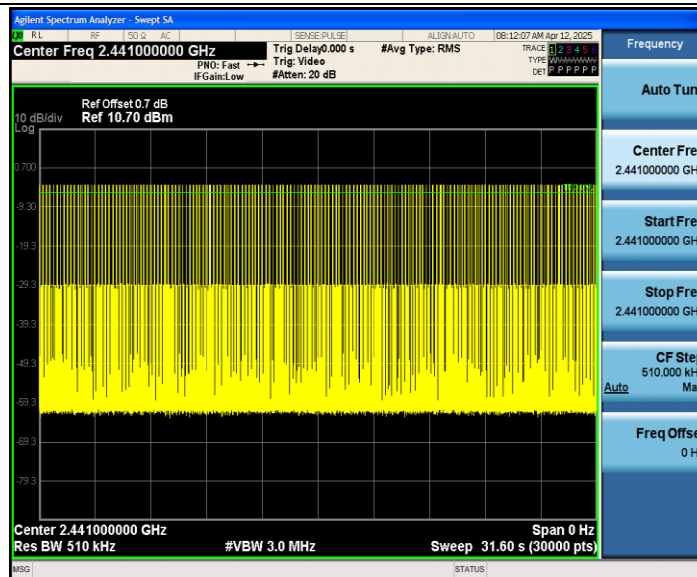
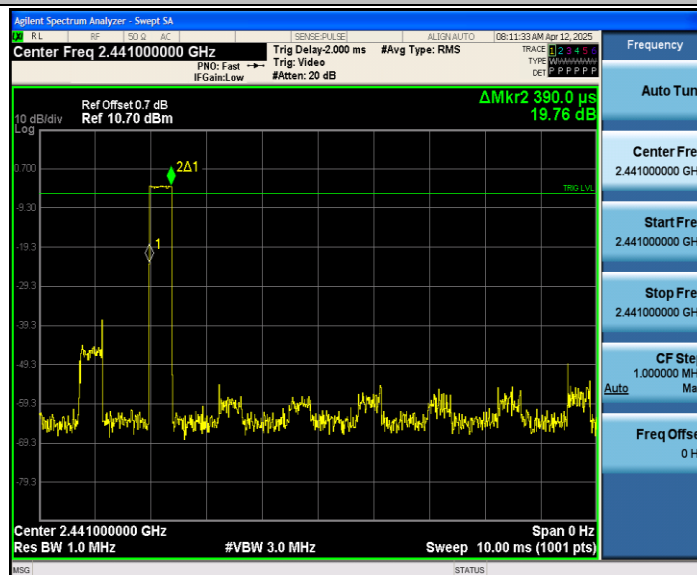


DH5_Ant1_Hop

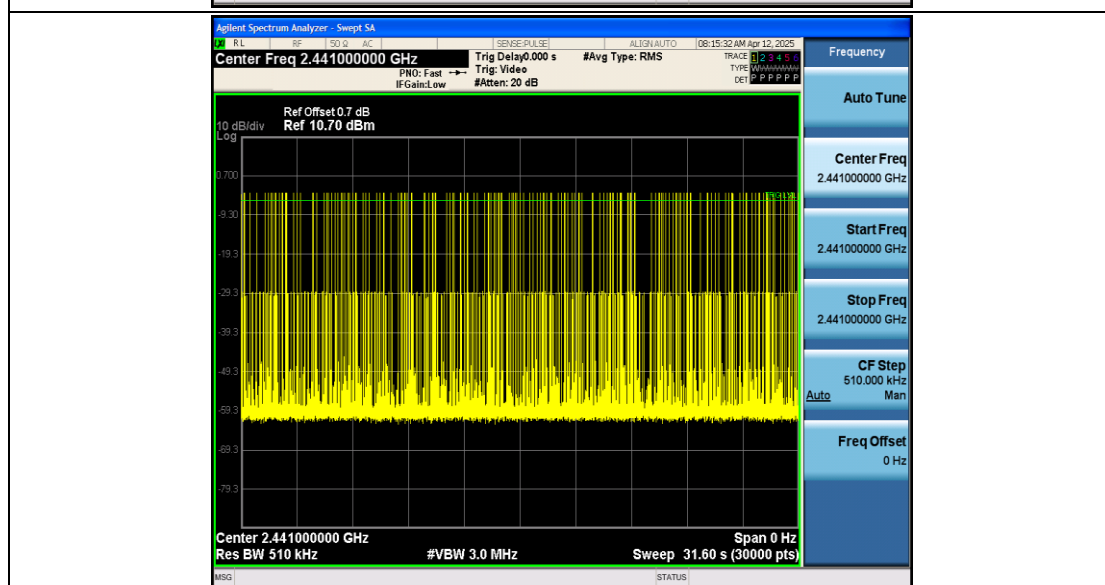




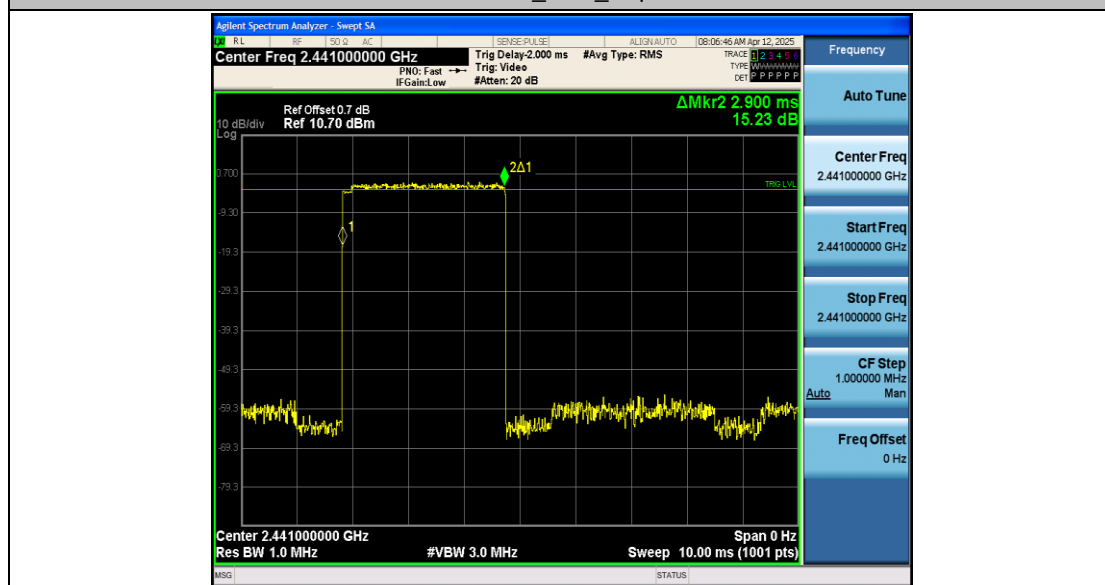
2DH1_Ant1_Hop

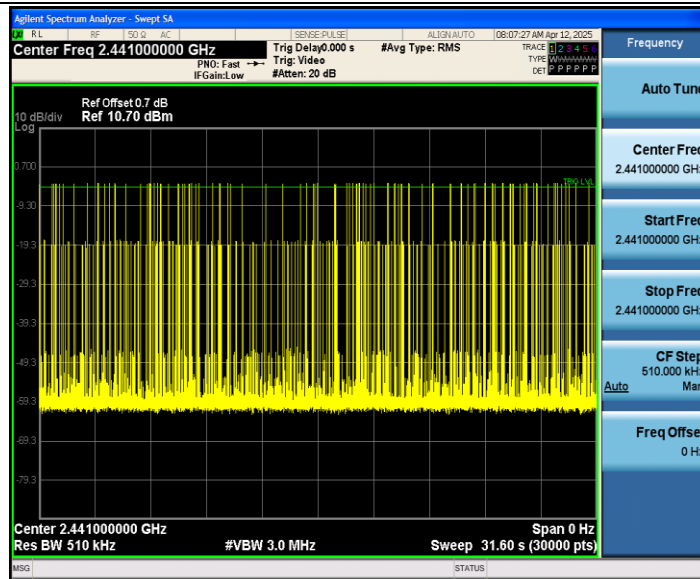


2DH3_Ant1_Hop

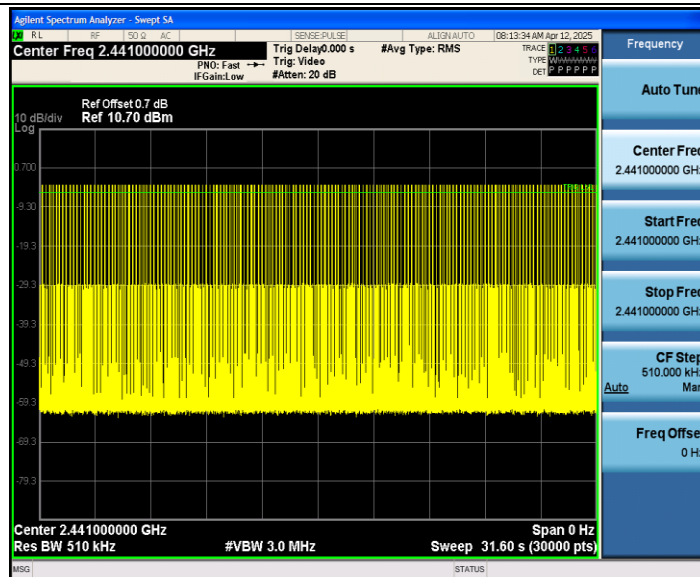
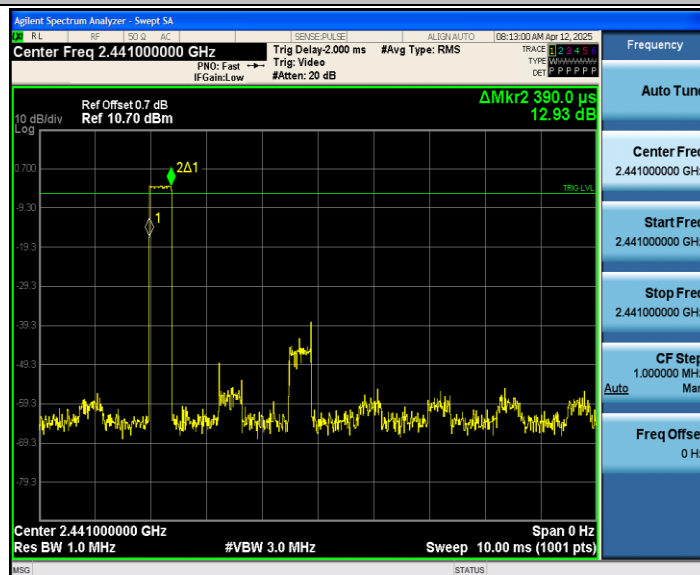


2DH5_Ant1_Hop

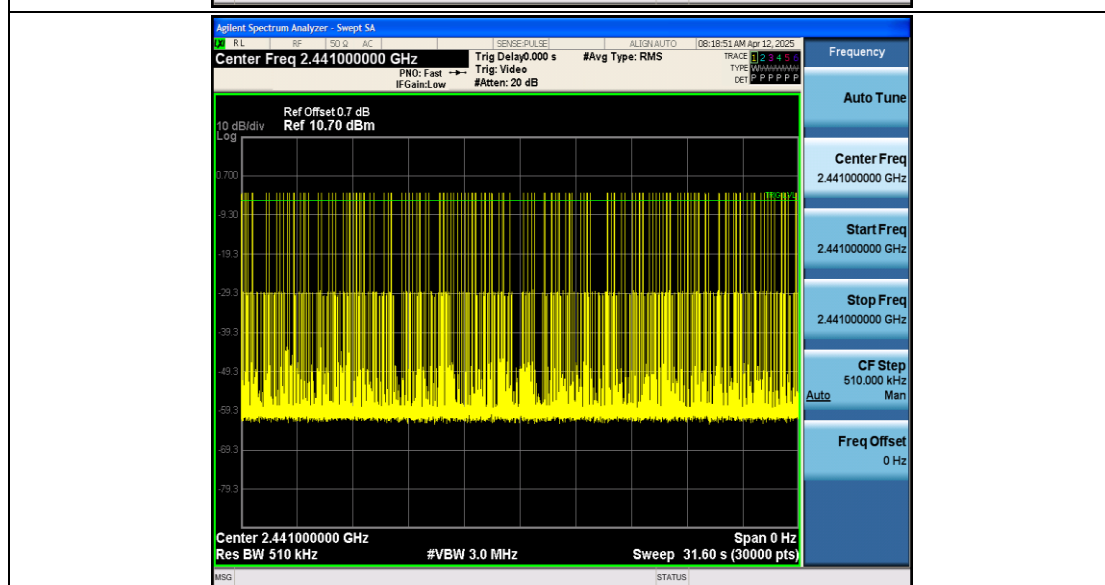




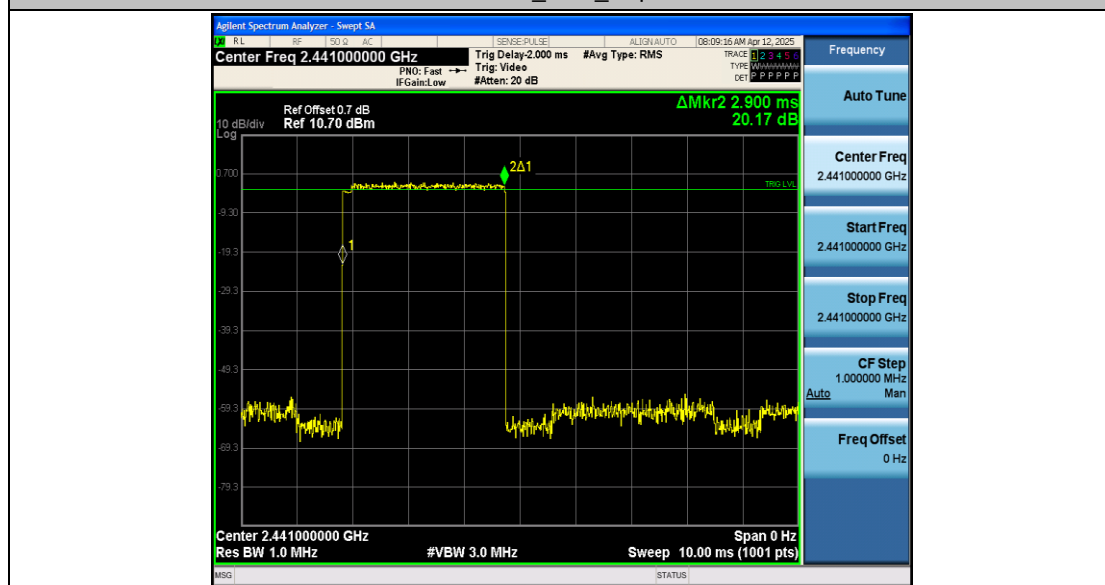
3DH1_Ant1_Hop

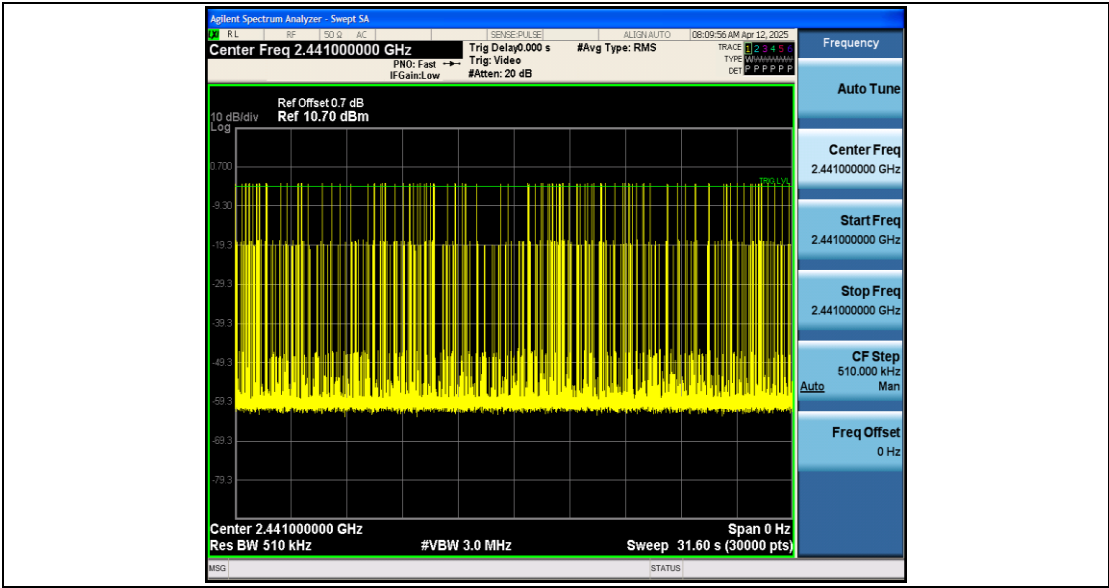


3DH3_Ant1_Hop



3DH5_Ant1_Hop



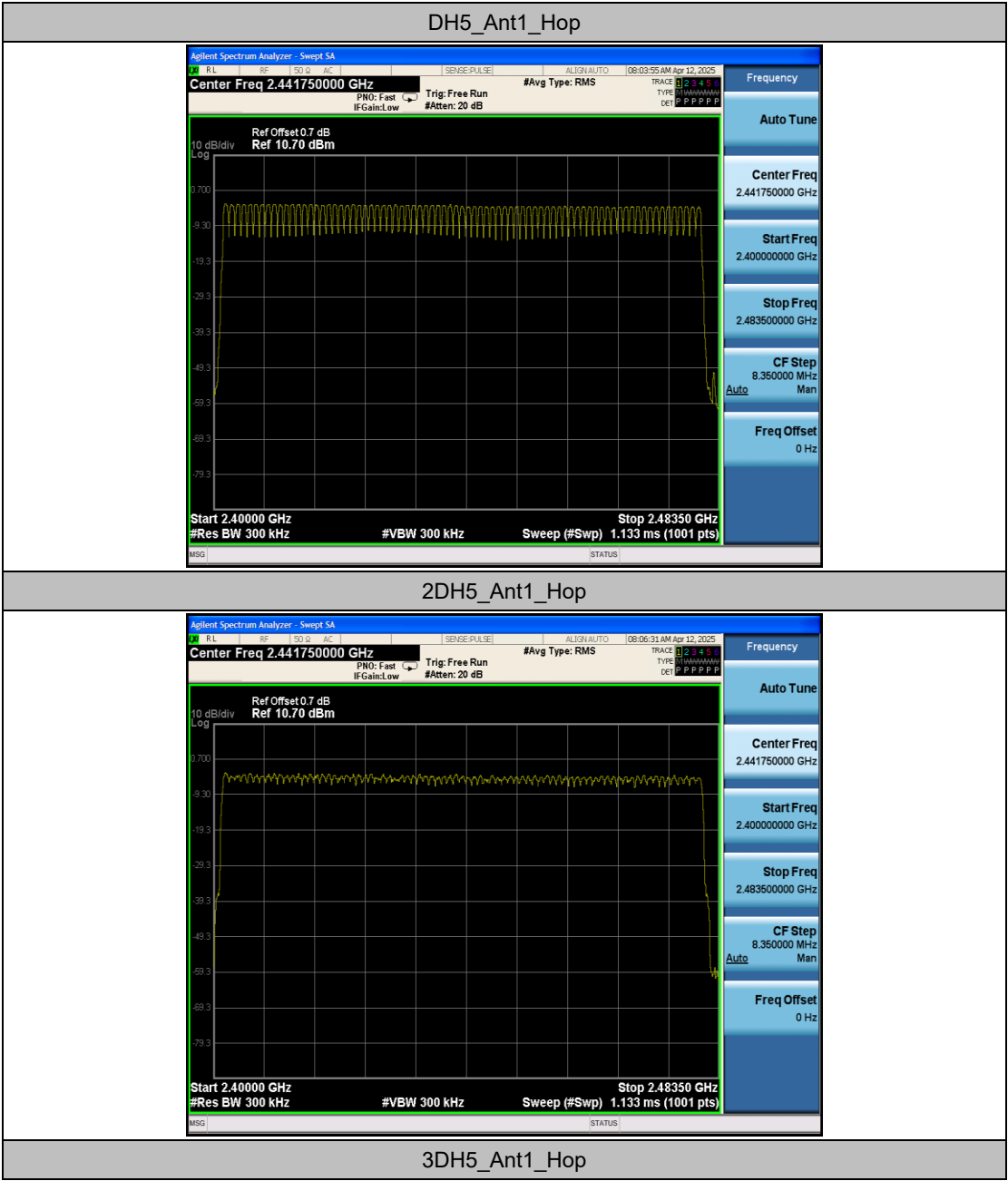


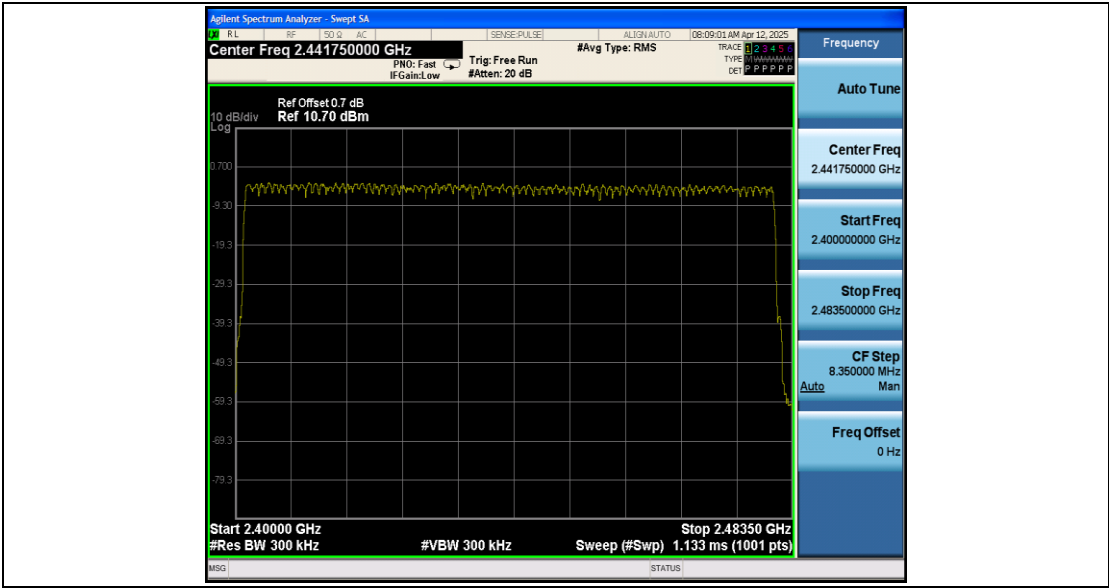
Appendix F: Number of hopping channels

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



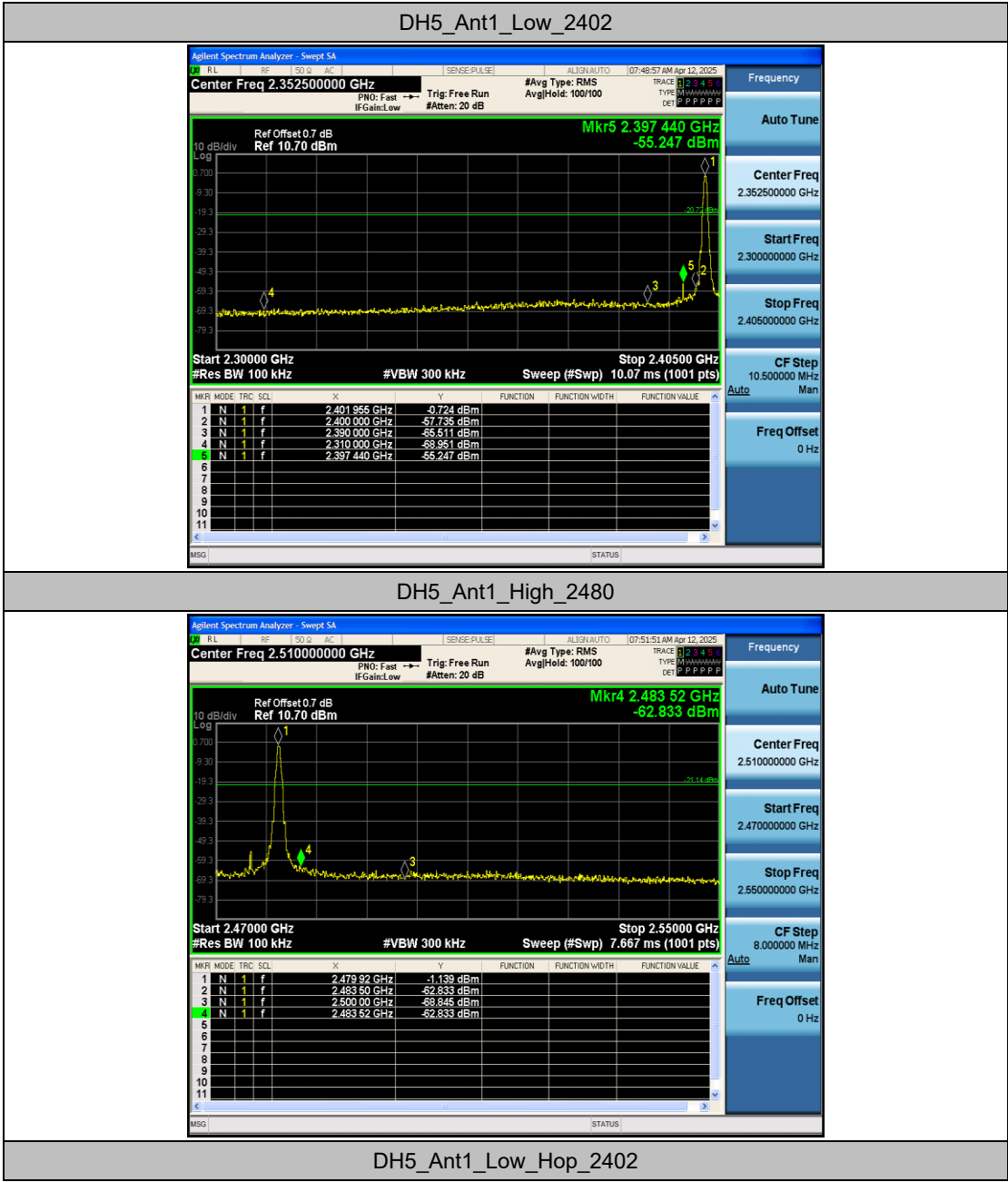


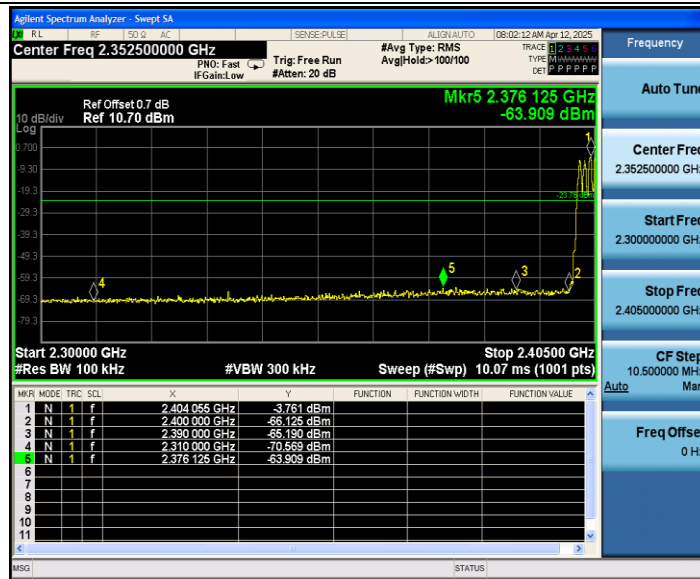
Appendix G: Band edge measurements

Test Result

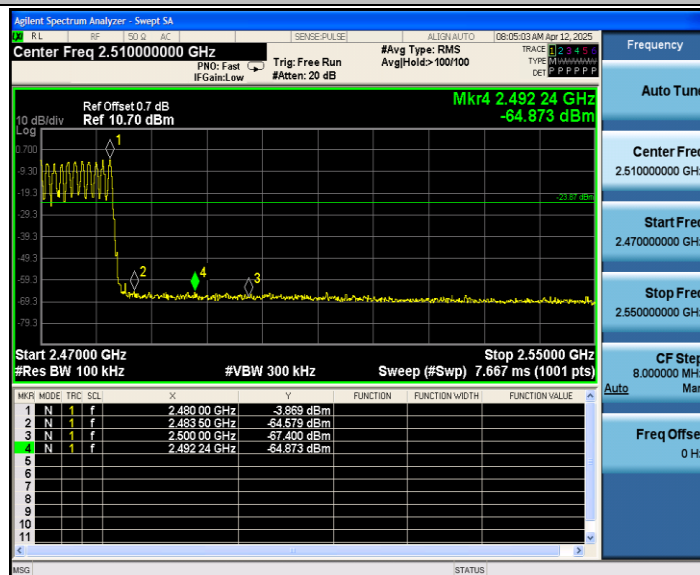
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.72	-55.25	≤-20.72	PASS
		High	2480	-1.14	-62.83	≤-21.14	PASS
		Low	Hop_2402	-3.76	-64.08	≤-23.76	PASS
		High	Hop_2480	-3.87	-64.87	≤-23.87	PASS
2DH5	Ant1	Low	2402	-5.86	-61.01	≤-25.86	PASS
		High	2480	-4.33	-63.21	≤-24.33	PASS
		Low	Hop_2402	-5.61	-62.29	≤-25.61	PASS
		High	Hop_2480	-4.51	-63.5	≤-24.51	PASS
3DH5	Ant1	Low	2402	-4.09	-54.65	≤-24.09	PASS
		High	2480	-4.45	-56.65	≤-24.45	PASS
		Low	Hop_2402	-5.25	-61.87	≤-25.25	PASS
		High	Hop_2480	-3.97	-63.9	≤-23.97	PASS

Test Graphs

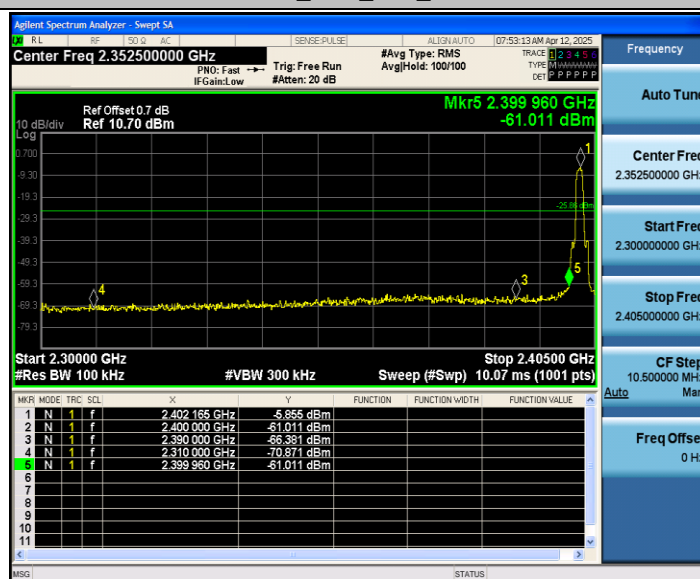




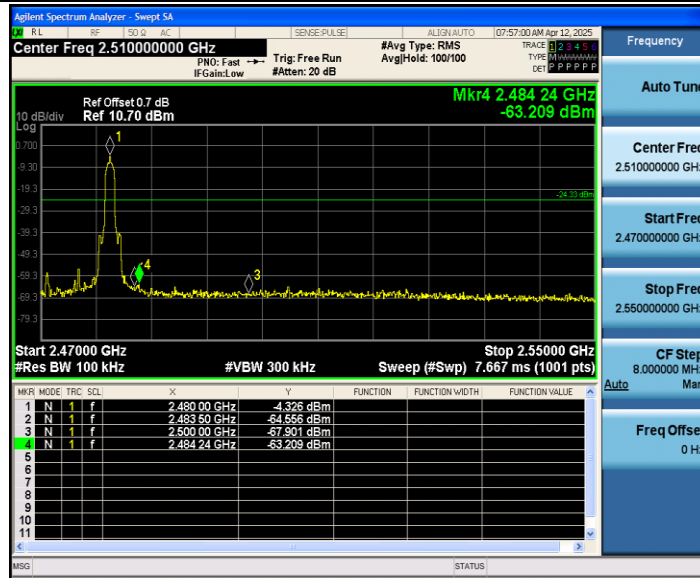
DH5_Ant1_High_Hop_2480



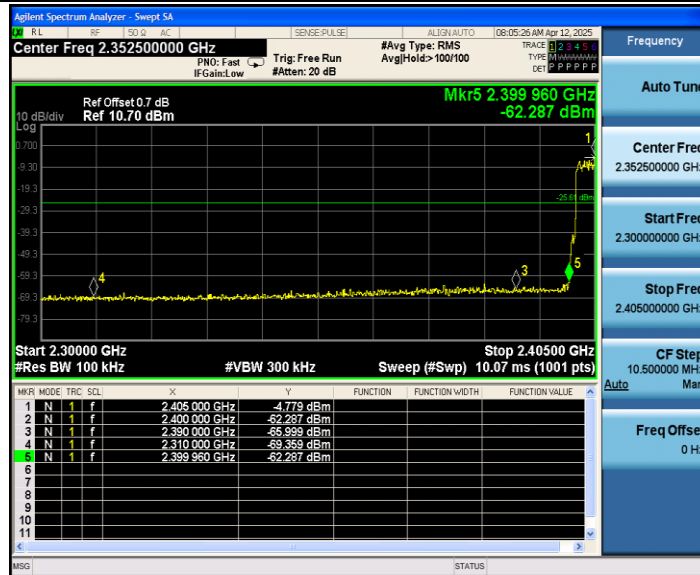
2DH5_Ant1_Low_2402



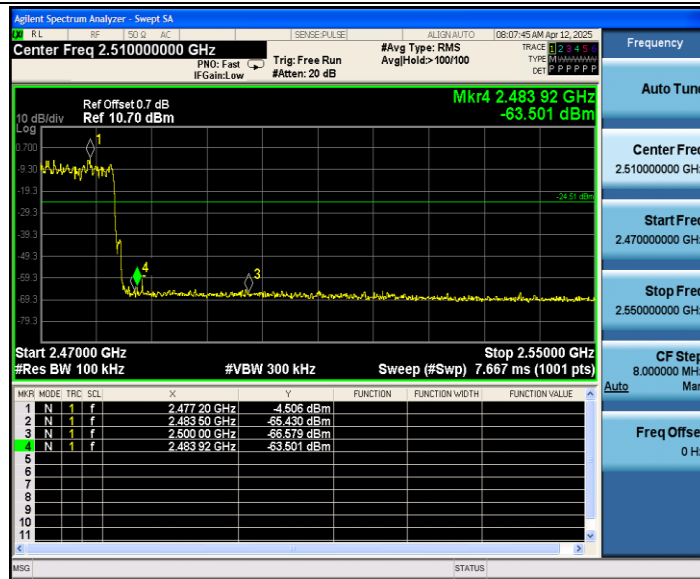
2DH5_Ant1_High_2480



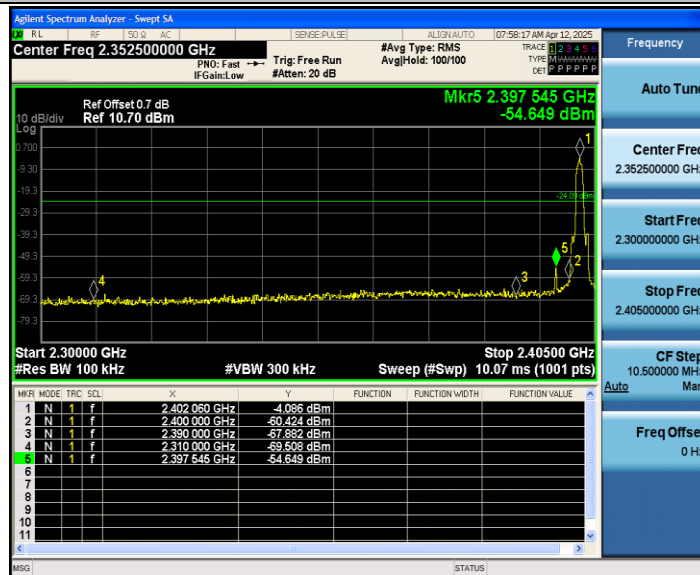
2DH5_Ant1_Low_Hop_2402



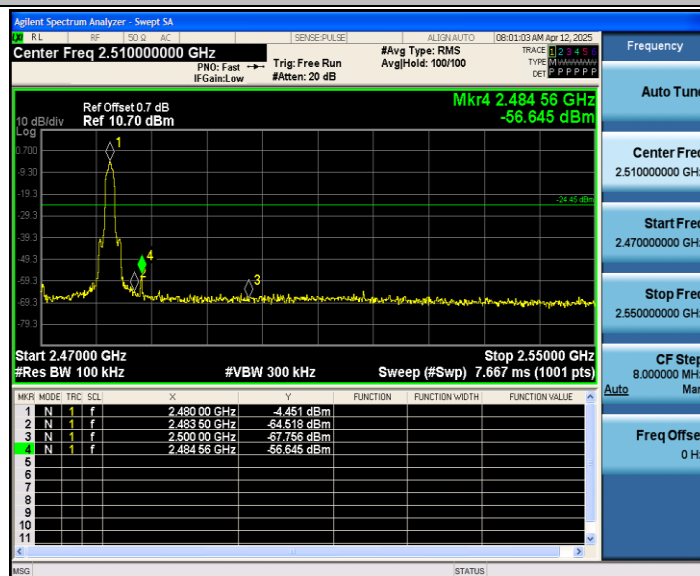
2DH5_Ant1_High_Hop_2480



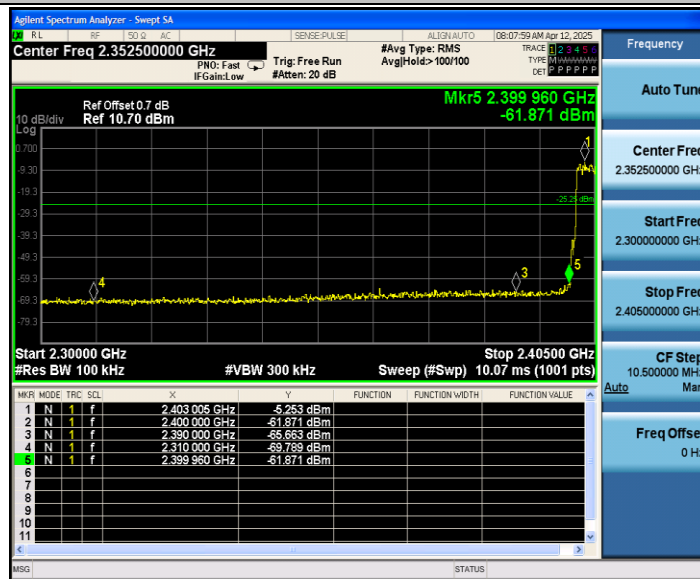
3DH5_Ant1_Low_2402



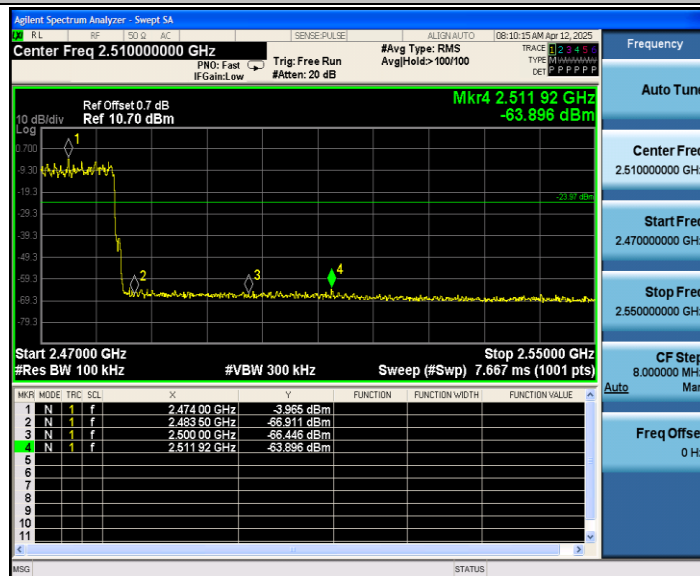
3DH5_Ant1_High_2480



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	-0.72	-0.72	---	PASS
			30~1000	-0.72	-68.99	≤-20.72	PASS
			1000~26500	-0.72	-44.37	≤-20.72	PASS
		2441	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-70.03	≤-20.34	PASS
			1000~26500	-0.34	-45.09	≤-20.34	PASS
		2480	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-69.52	≤-21.65	PASS
			1000~26500	-1.65	-46.48	≤-21.65	PASS
2DH5	Ant1	2402	Reference	-5.07	-5.07	---	PASS
			30~1000	-5.07	-69.27	≤-25.07	PASS
			1000~26500	-5.07	-48.64	≤-25.07	PASS
		2441	Reference	-6.57	-6.57	---	PASS
			30~1000	-6.57	-69.84	≤-26.57	PASS
			1000~26500	-6.57	-51.22	≤-26.57	PASS
		2480	Reference	-4.51	-4.51	---	PASS
			30~1000	-4.51	-69.04	≤-24.51	PASS
			1000~26500	-4.51	-50.09	≤-24.51	PASS
3DH5	Ant1	2402	Reference	-3.99	-3.99	---	PASS
			30~1000	-3.99	-69.35	≤-23.99	PASS
			1000~26500	-3.99	-52.23	≤-23.99	PASS
		2441	Reference	-6.15	-6.15	---	PASS
			30~1000	-6.15	-69.39	≤-26.15	PASS
			1000~26500	-6.15	-51.72	≤-26.15	PASS
		2480	Reference	-6.04	-6.04	---	PASS
			30~1000	-6.04	-69.53	≤-26.04	PASS
			1000~26500	-6.04	-50.55	≤-26.04	PASS