

FCC Appendix RF Test Data for BR-EDR

FCC ID : 2BXKS-VITAS

Company : Dongguan Geekfly Electronic Technology Co., Ltd.

EUT : TWS Headphones

Model Number : Vitas

Report No. : CTA26070701601

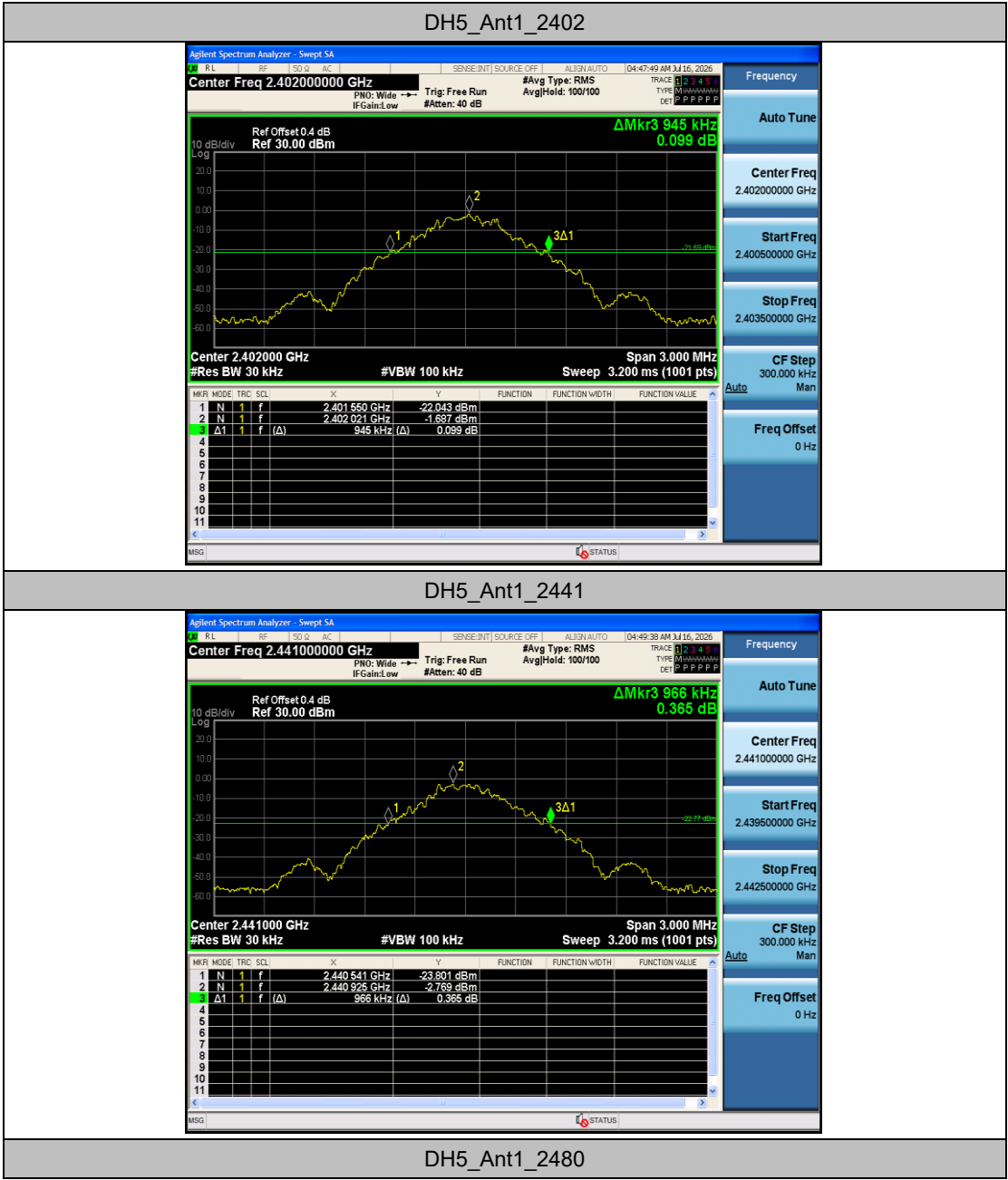
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.550	2402.495	---	---
		2441	0.966	2440.541	2441.507	---	---
		2480	0.951	2479.547	2480.498	---	---
2DH5	Ant1	2402	1.314	2401.355	2402.669	---	---
		2441	1.332	2440.343	2441.675	---	---
		2480	1.287	2479.376	2480.663	---	---
3DH5	Ant1	2402	1.290	2401.364	2402.654	---	---
		2441	1.308	2440.361	2441.669	---	---
		2480	1.311	2479.352	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

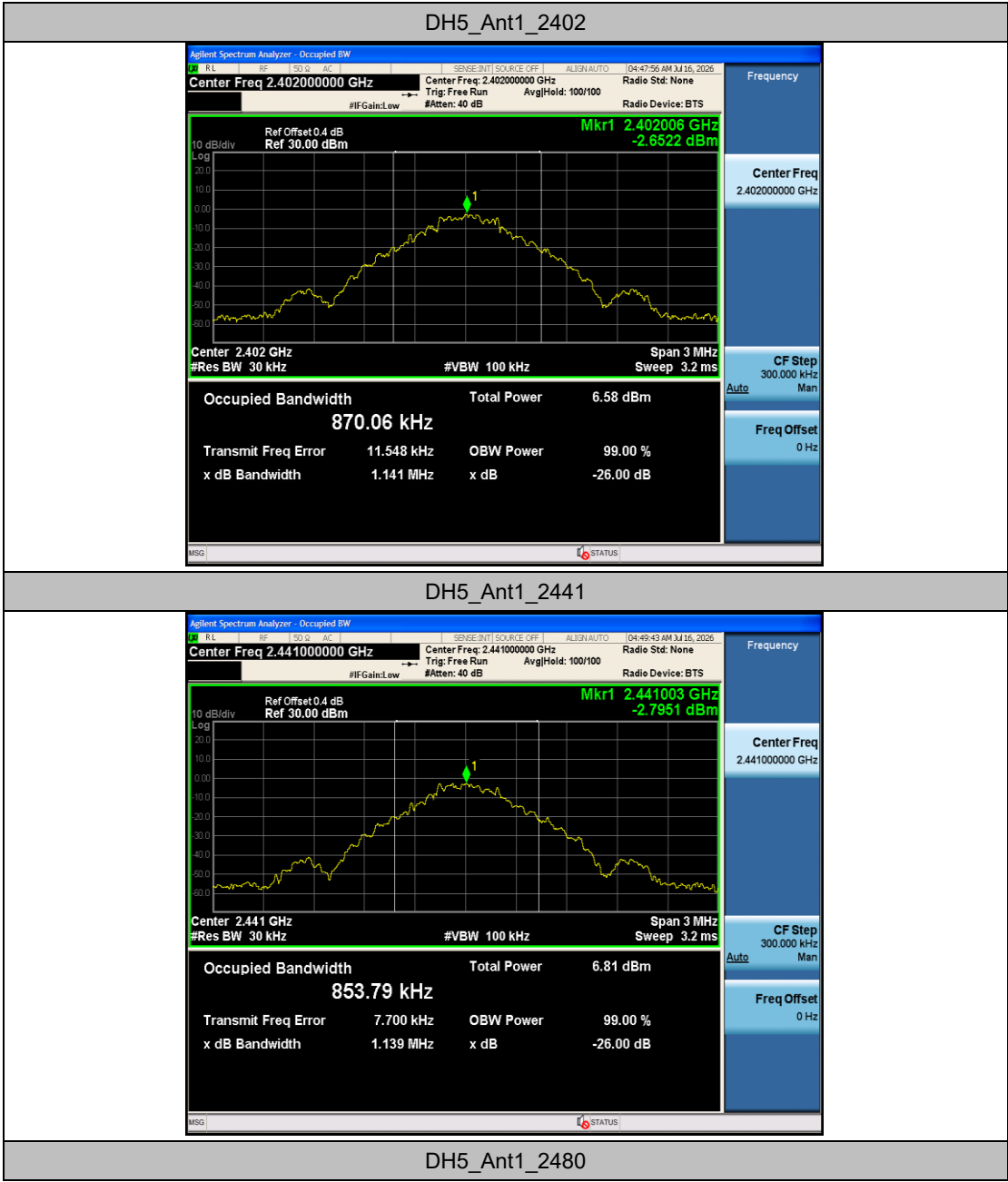


Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87006	2401.5765	2402.4466	---	---
		2441	0.85379	2440.5808	2441.4346	---	---
		2480	0.86823	2479.5782	2480.4464	---	---
2DH5	Ant1	2402	1.1840	2401.4169	2402.6009	---	---
		2441	1.1923	2440.4124	2441.6047	---	---
		2480	1.1943	2479.4142	2480.6085	---	---
3DH5	Ant1	2402	1.1874	2401.4157	2402.6031	---	---
		2441	1.1870	2440.4165	2441.6035	---	---
		2480	1.1908	2479.4160	2480.6068	---	---

Test Graphs





2DH5_Ant1_2402



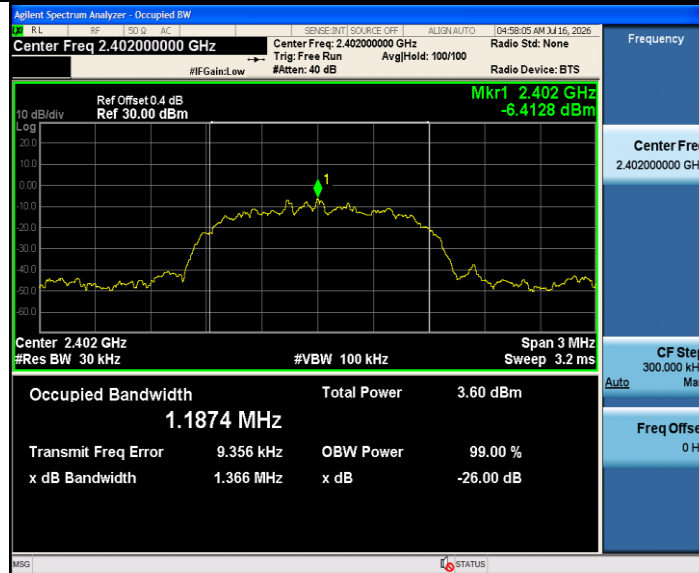
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Left:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.15	≤20.97	PASS
		2441	0.03	≤20.97	PASS
		2480	-0.20	≤20.97	PASS
2DH5	Ant1	2402	-0.80	≤20.97	PASS
		2441	-0.80	≤20.97	PASS
		2480	-1.01	≤20.97	PASS
3DH5	Ant1	2402	-0.35	≤20.97	PASS
		2441	-0.46	≤20.97	PASS
		2480	-0.66	≤20.97	PASS

Right:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.24	≤20.97	PASS
		2441	0.16	≤20.97	PASS
		2480	0.12	≤20.97	PASS
2DH5	Ant1	2402	-0.65	≤20.97	PASS
		2441	-0.73	≤20.97	PASS
		2480	-0.84	≤20.97	PASS
3DH5	Ant1	2402	-0.52	≤20.97	PASS
		2441	-0.37	≤20.97	PASS
		2480	-0.45	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.99	≥ 0.966	PASS
2DH5	Ant1	Hop	1.012	≥ 0.888	PASS
3DH5	Ant1	Hop	0.97	≥ 0.874	PASS

Test Graphs



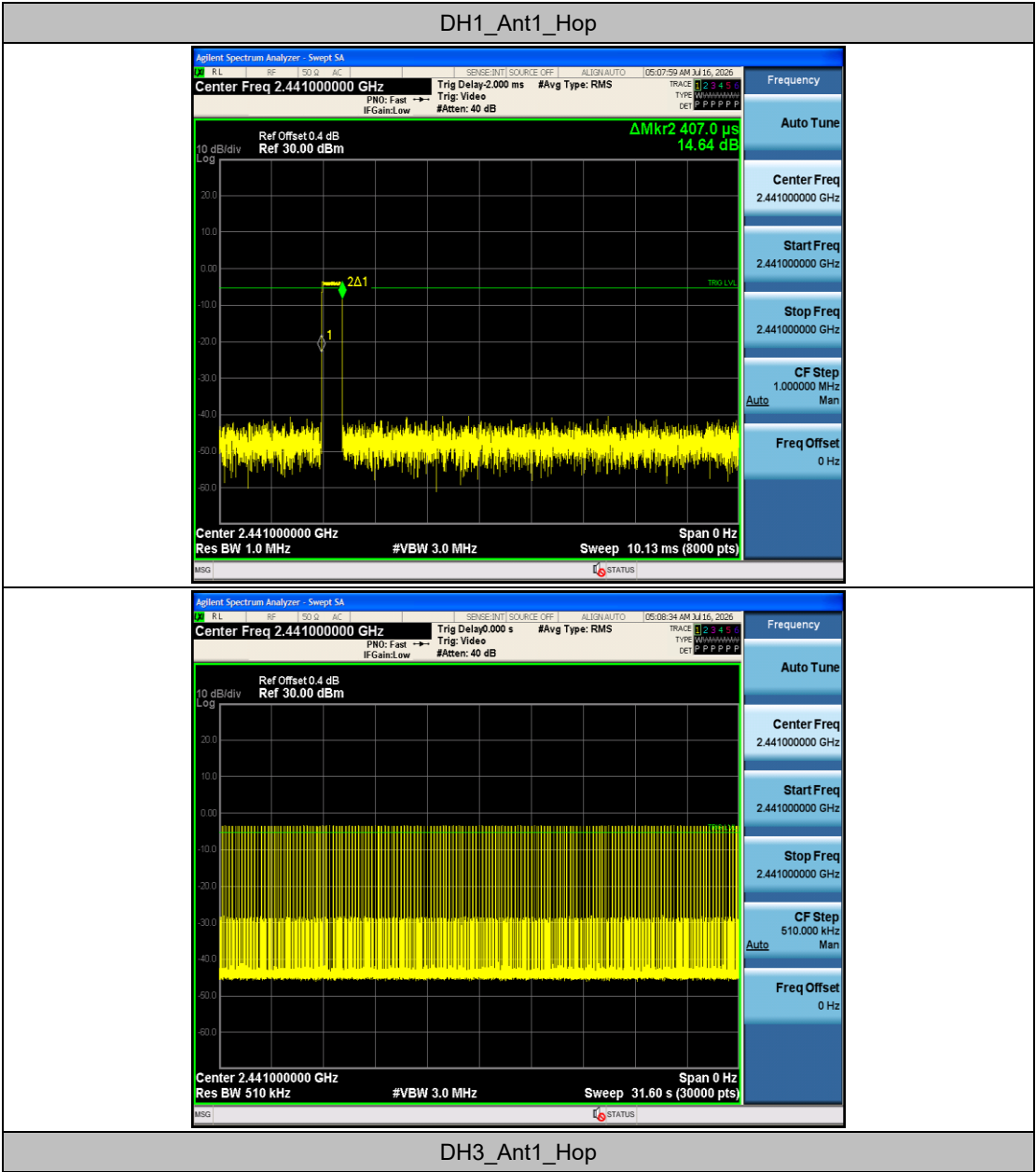


Appendix E: Time of occupancy

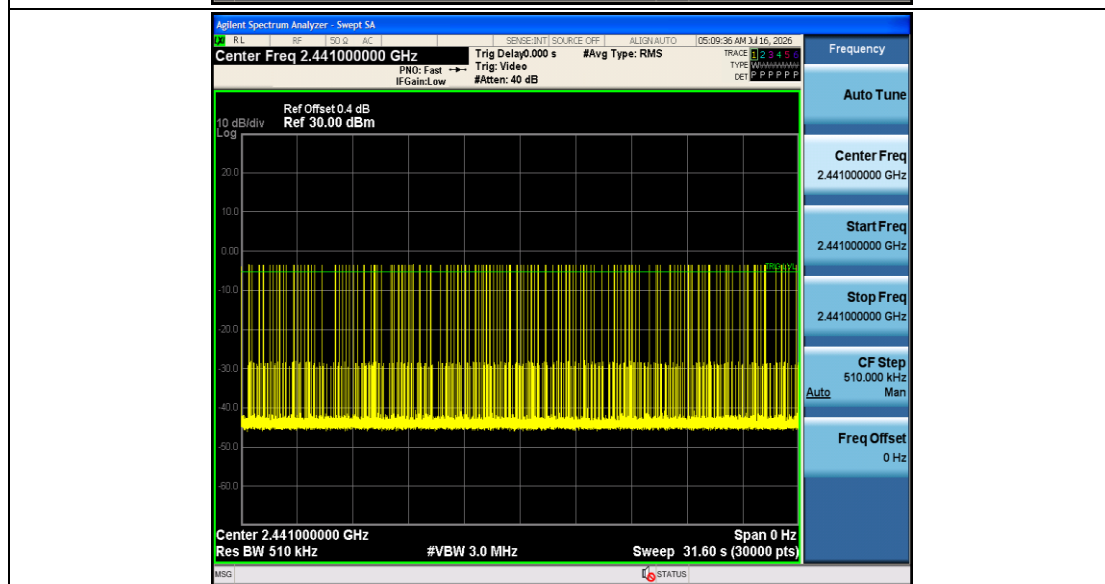
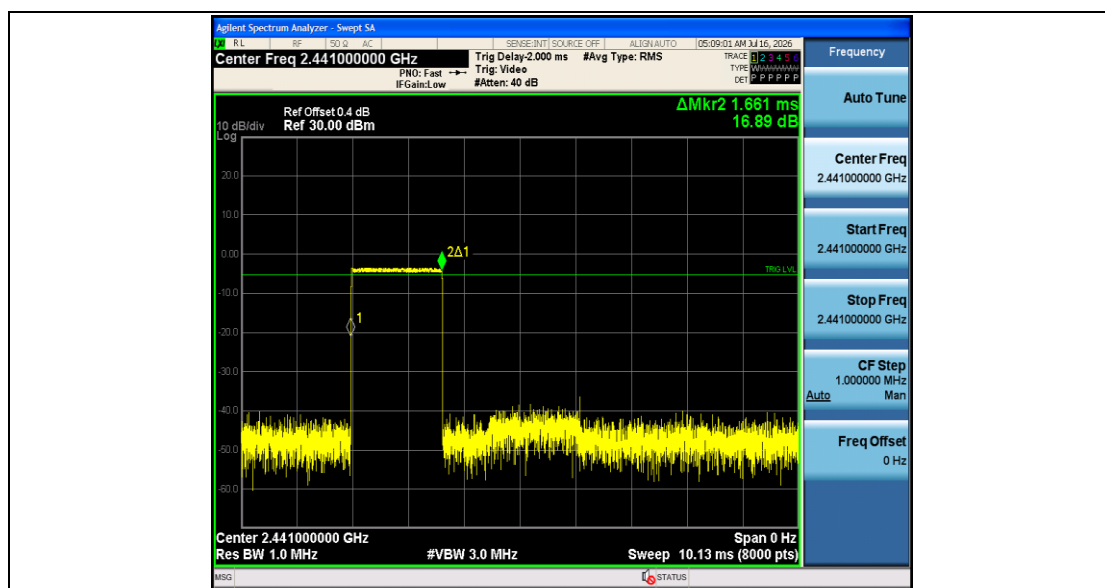
Test Result

Test Mode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	315	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.661	165	0.274	≤0.4	PASS
DH5	Ant1	Hop	2.911	105	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	157	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.916	111	0.324	≤0.4	PASS
3DH1	Ant1	Hop	0.415	320	0.133	≤0.4	PASS
3DH3	Ant1	Hop	1.666	162	0.27	≤0.4	PASS
3DH5	Ant1	Hop	2.917	115	0.335	≤0.4	PASS

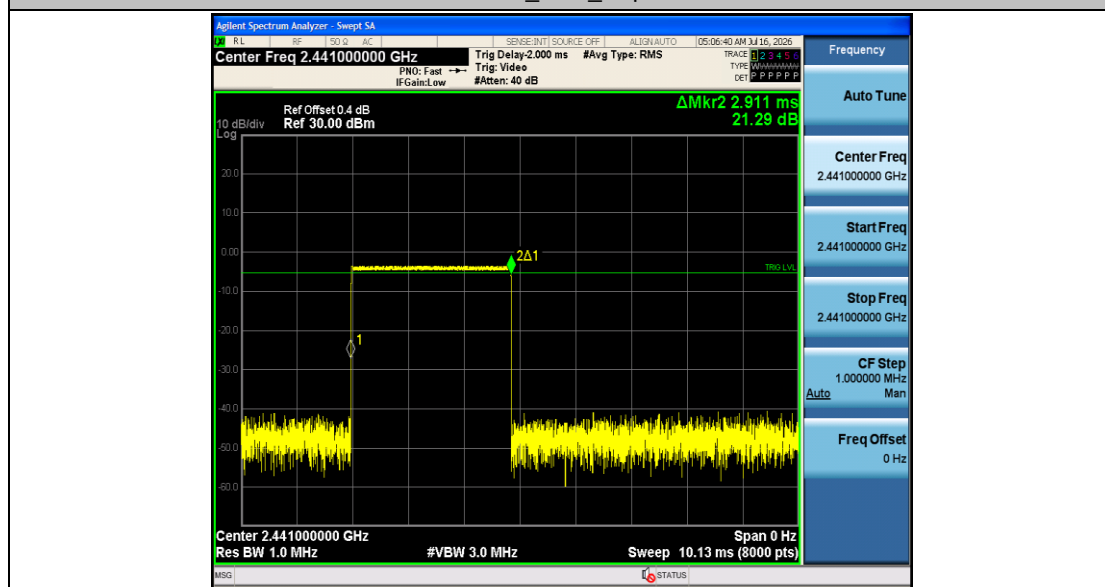
Test Graphs

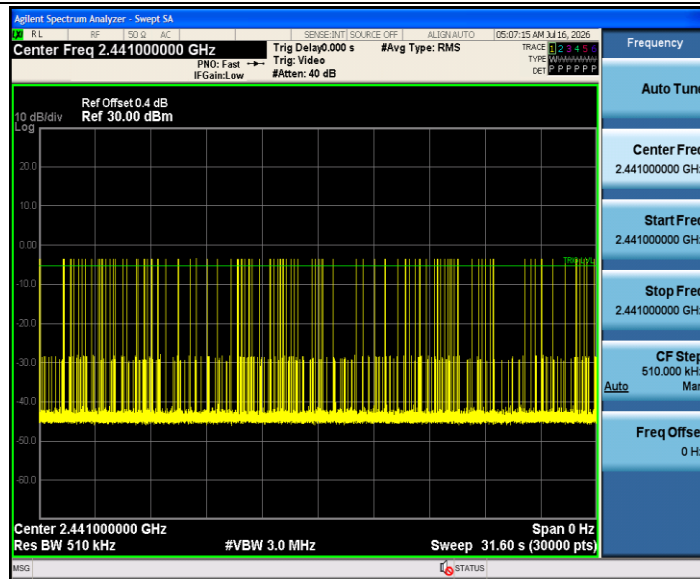


DH3_Ant1_Hop

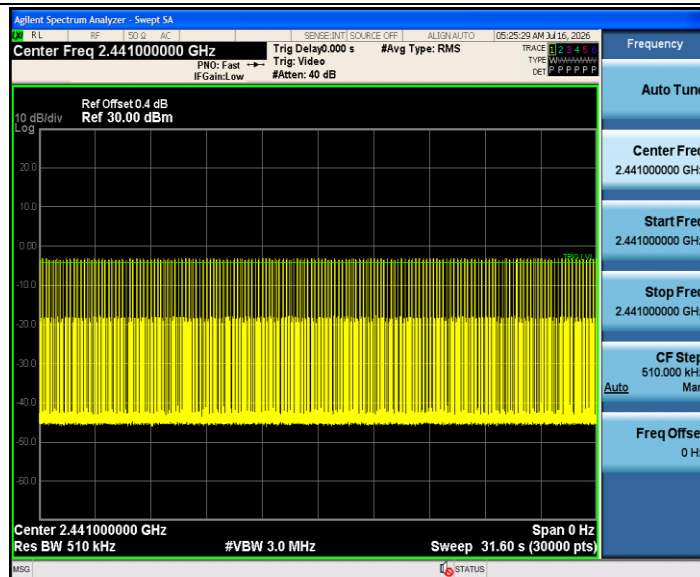
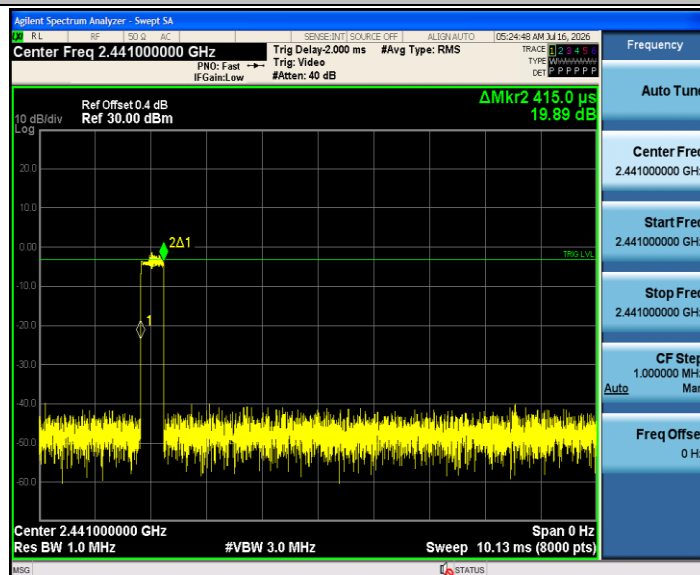


DH5_Ant1_Hop

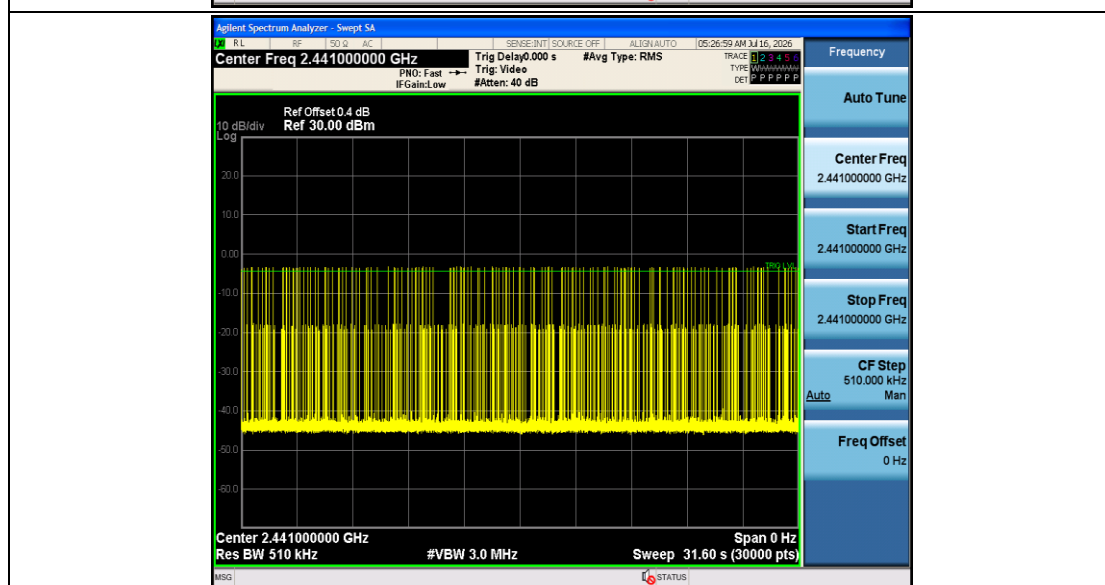
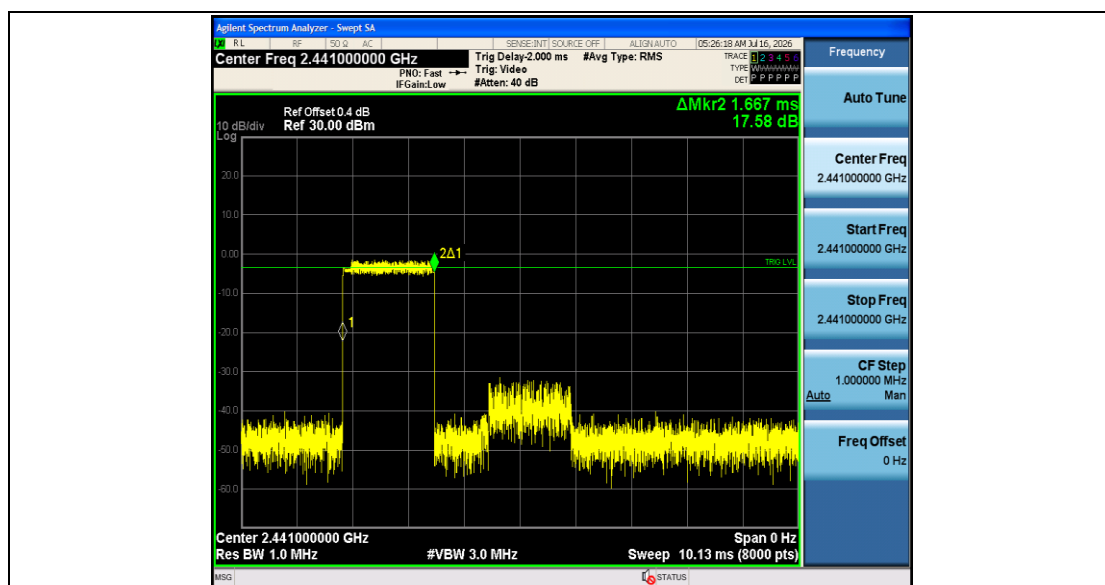




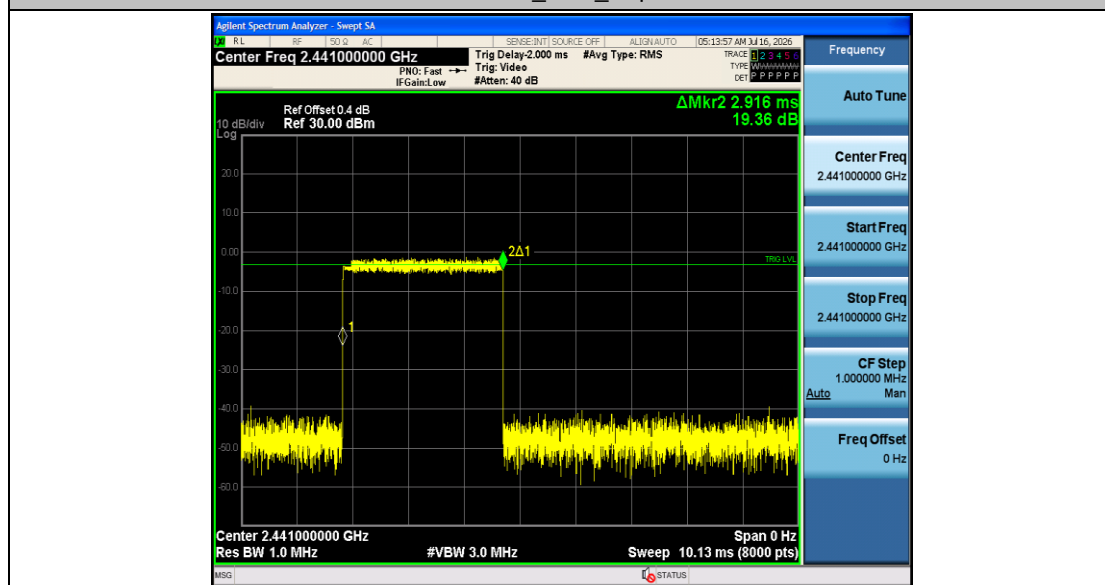
2DH1_Ant1_Hop

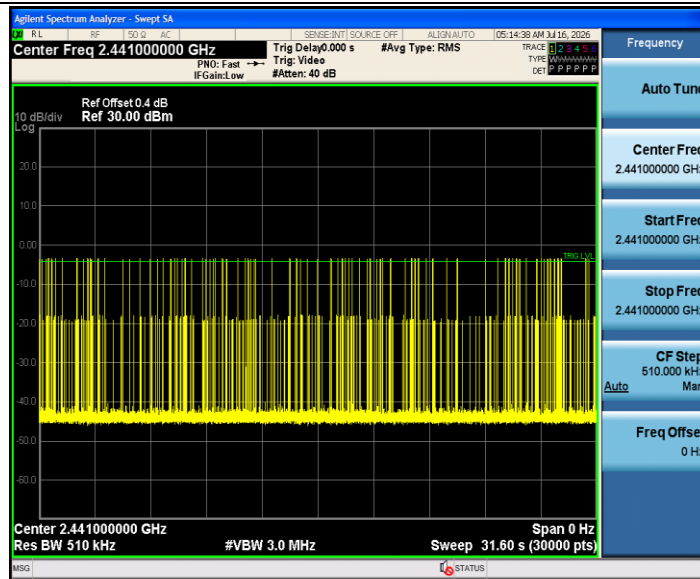


2DH3_Ant1_Hop

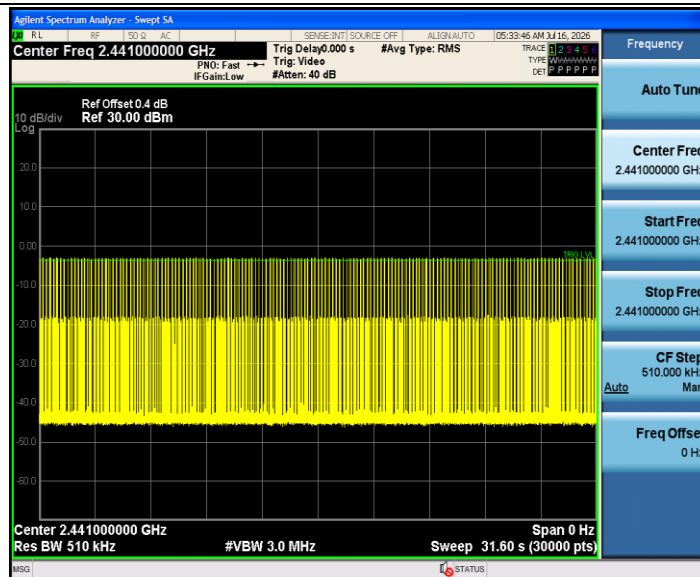
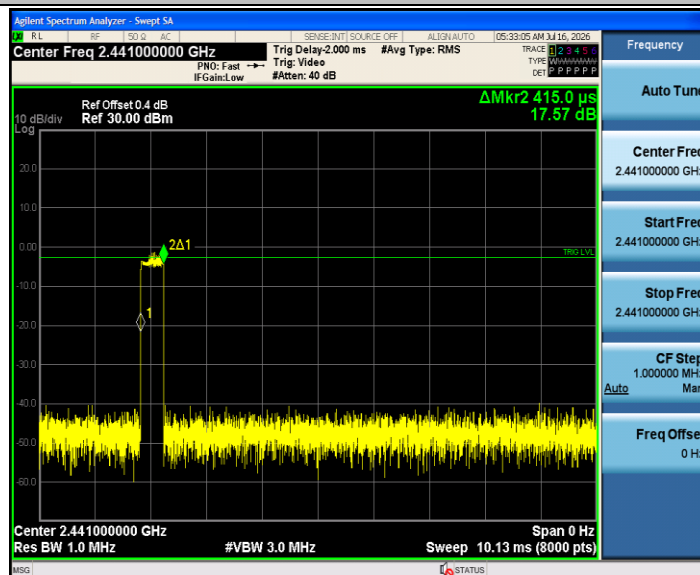


2DH5_Ant1_Hop

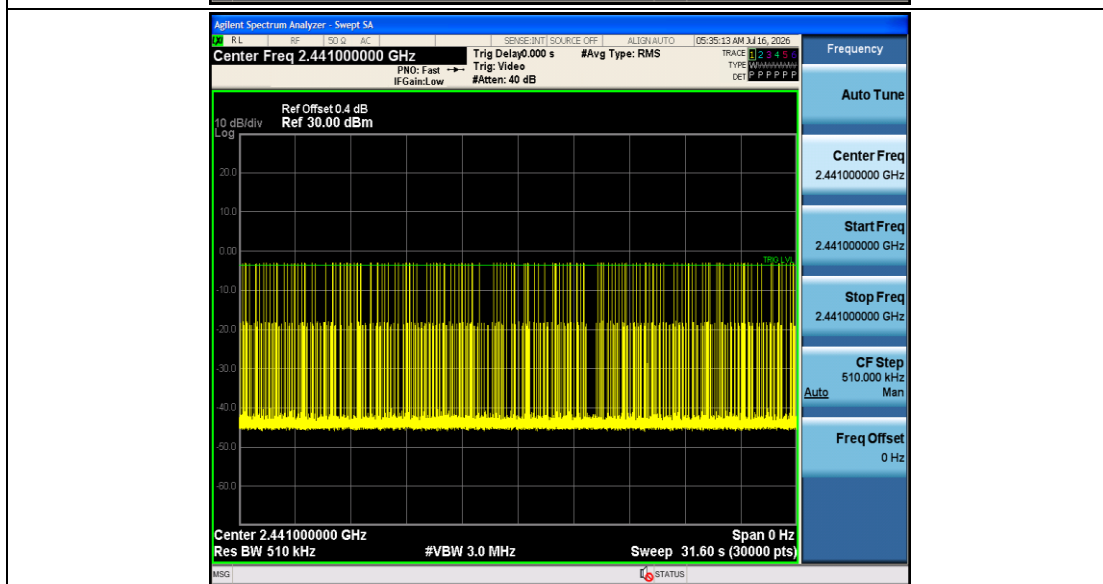
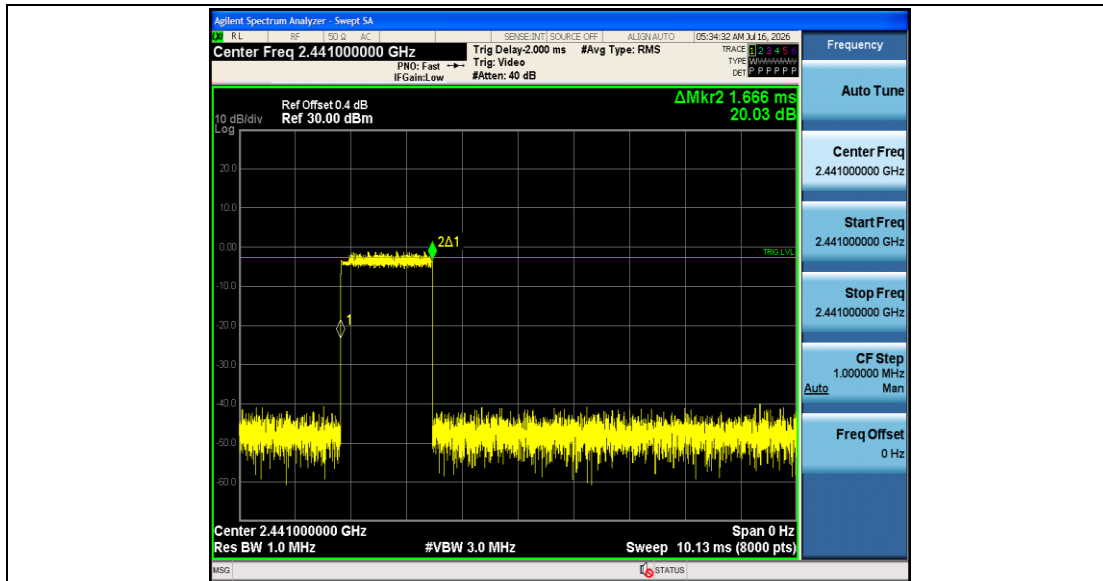




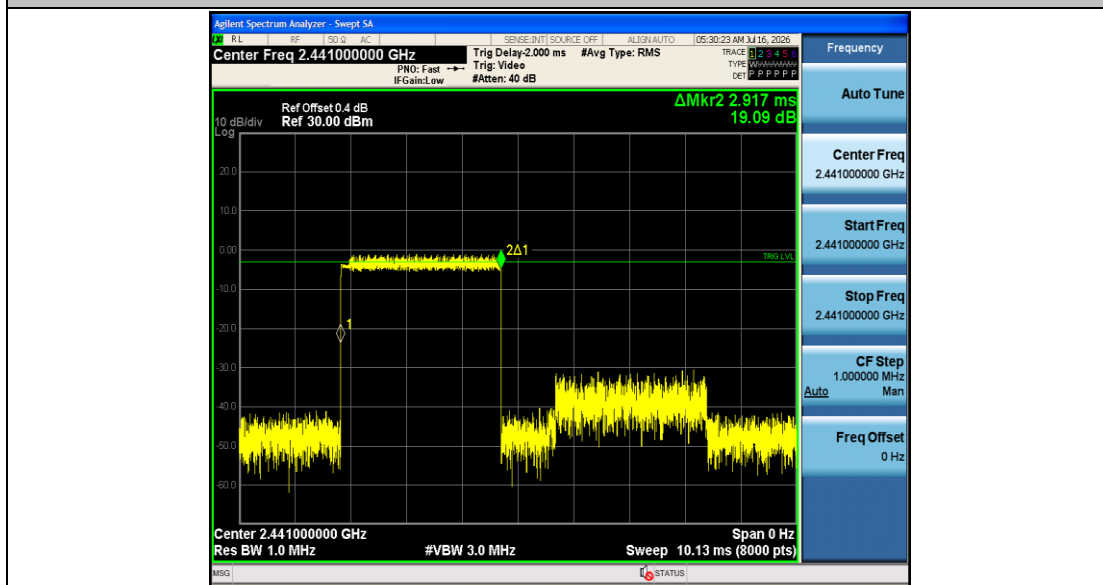
3DH1_Ant1_Hop

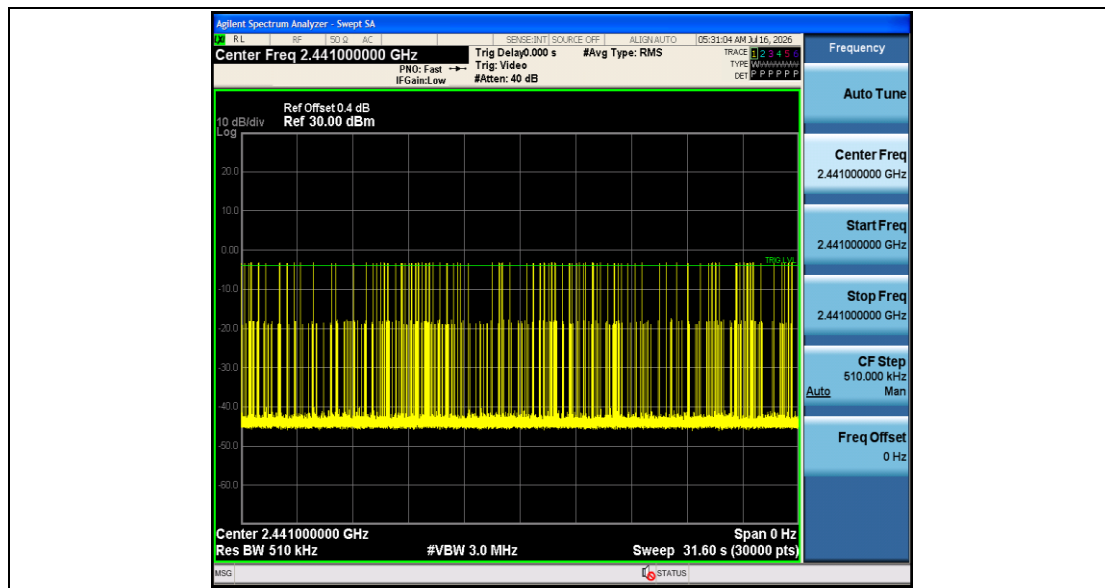


3DH3_Ant1_Hop



3DH5_Ant1_Hop



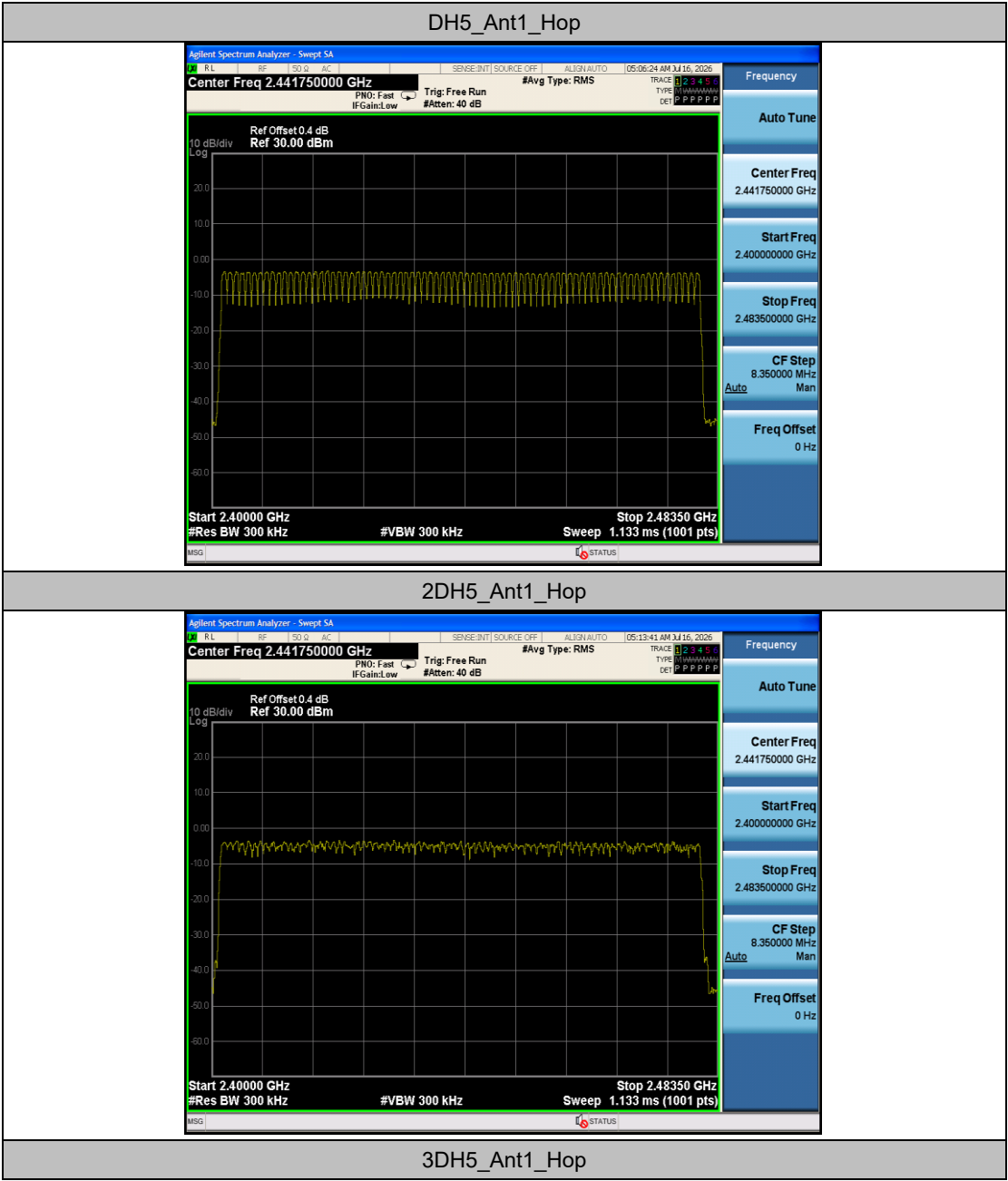


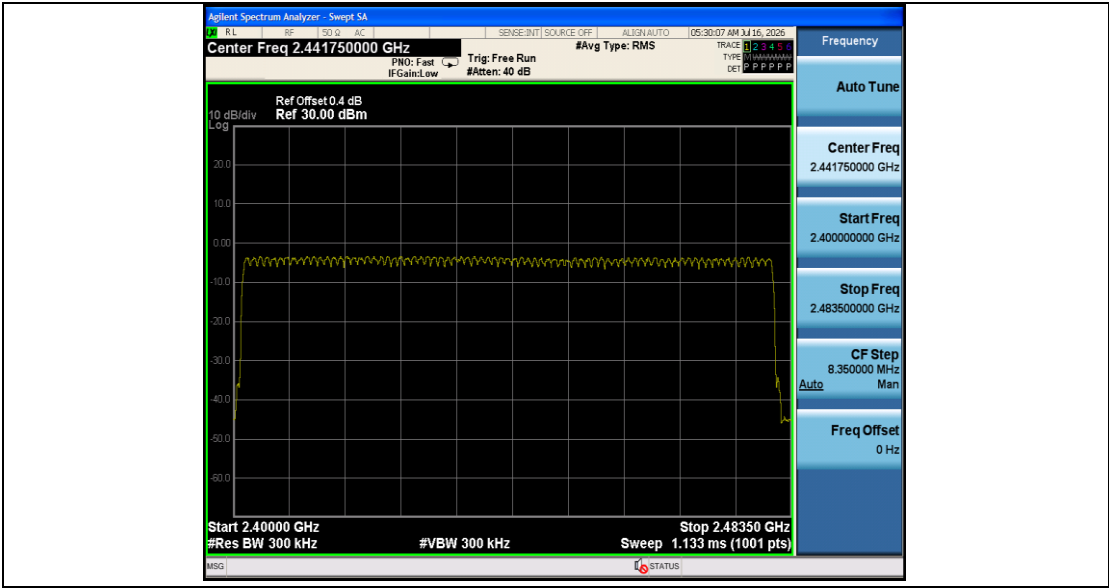
Appendix F: Number of hopping channels

Test Result

Test Mode	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



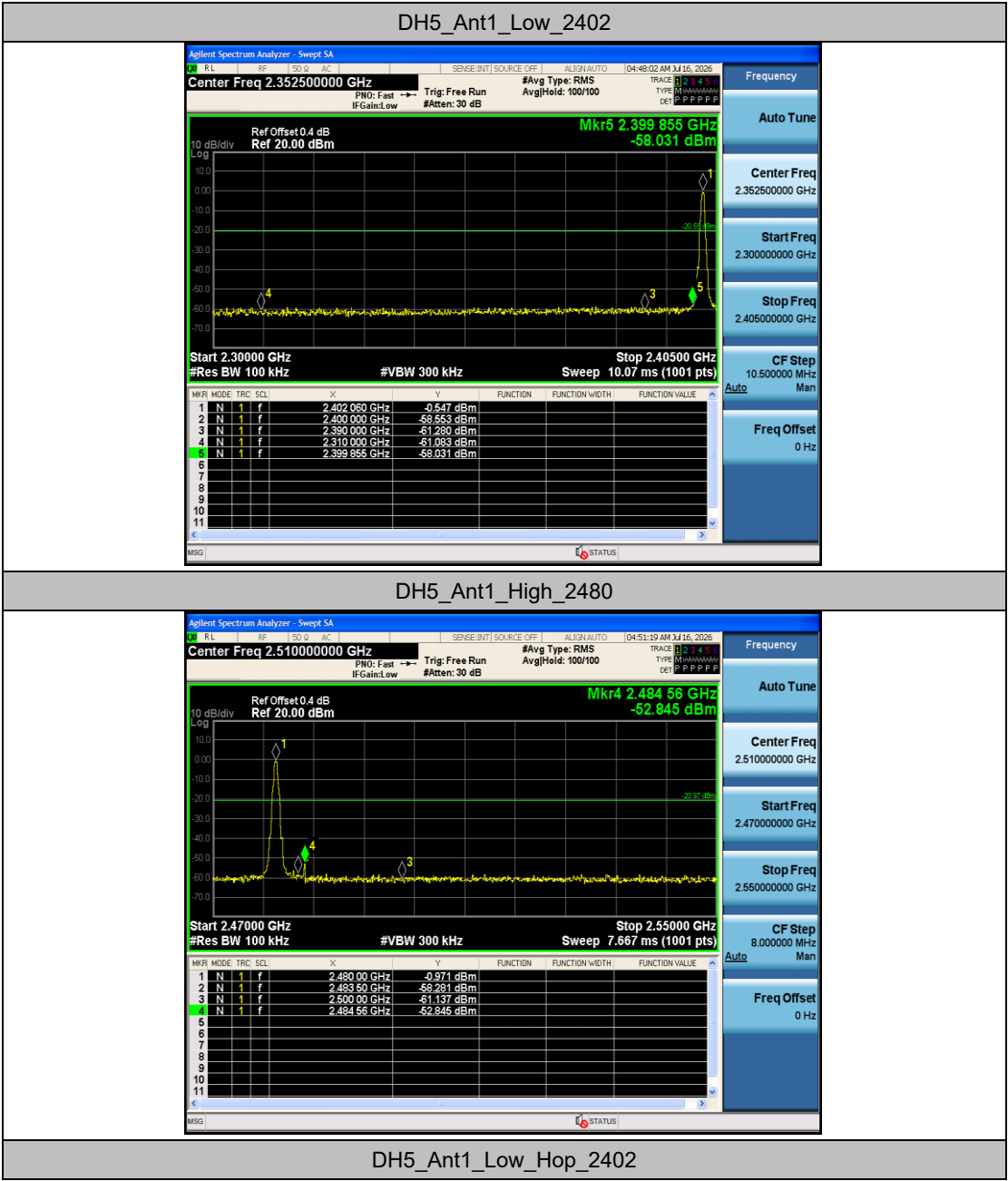


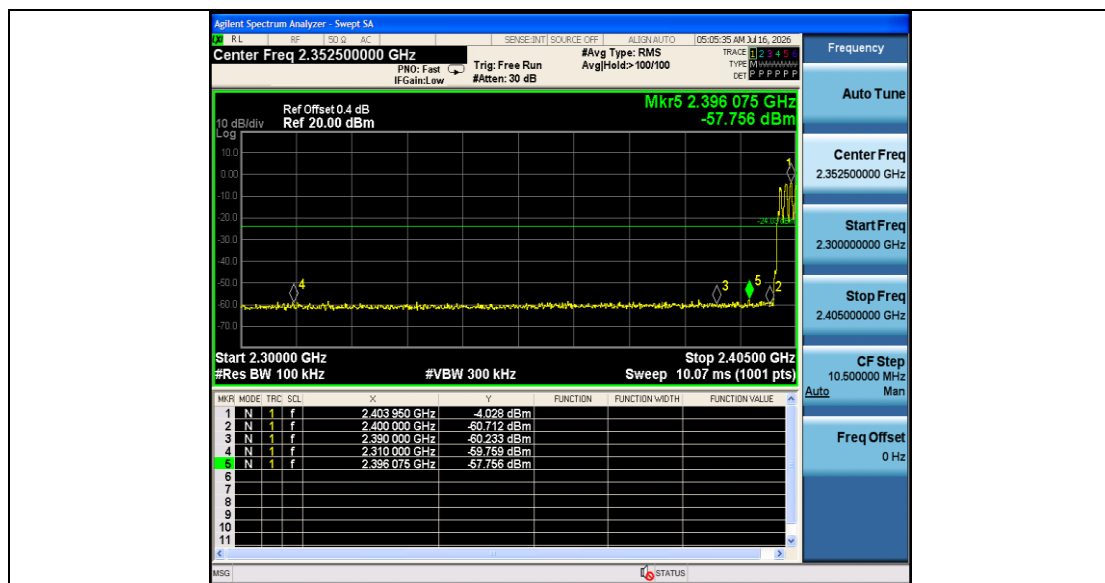
Appendix G: Band edge measurements

Test Result

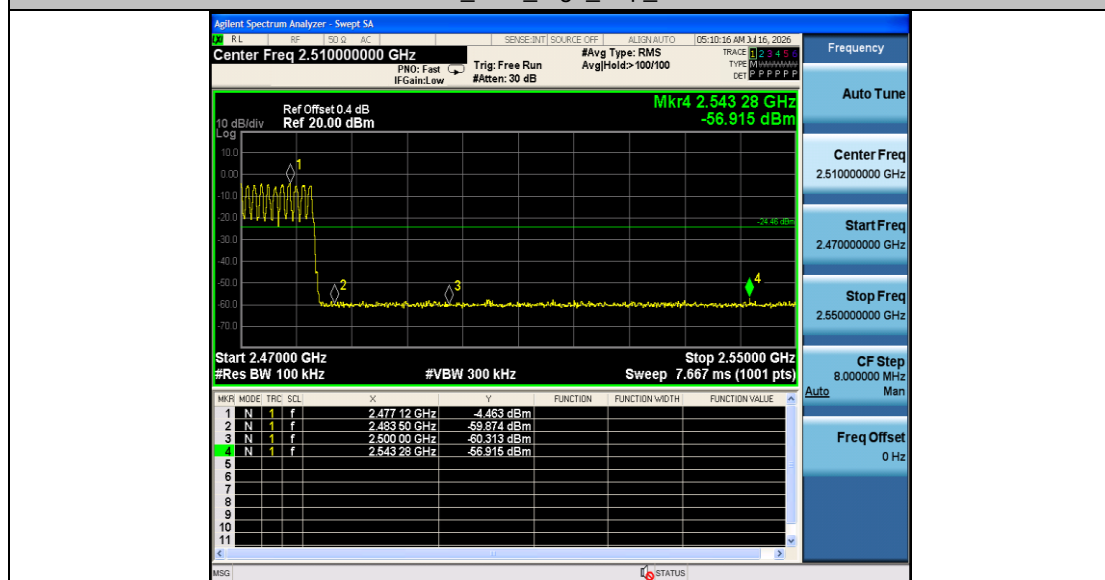
Test Mode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.55	-58.03	≤-20.55	PASS
		High	2480	-0.97	-52.85	≤-20.97	PASS
		Low	Hop_2402	-4.03	-57.76	≤-24.03	PASS
		High	Hop_2480	-4.46	-56.92	≤-24.46	PASS
2DH5	Ant1	Low	2402	-4.81	-57.87	≤-24.81	PASS
		High	2480	-6.21	-58.01	≤-26.21	PASS
		Low	Hop_2402	-3.39	-58.24	≤-23.39	PASS
		High	Hop_2480	-5.12	-57.15	≤-25.12	PASS
3DH5	Ant1	Low	2402	-3.39	-56.31	≤-23.39	PASS
		High	2480	-3.83	-56.39	≤-23.83	PASS
		Low	Hop_2402	-7.93	-58.66	≤-27.93	PASS
		High	Hop_2480	-5.19	-58.01	≤-25.19	PASS

Test Graphs

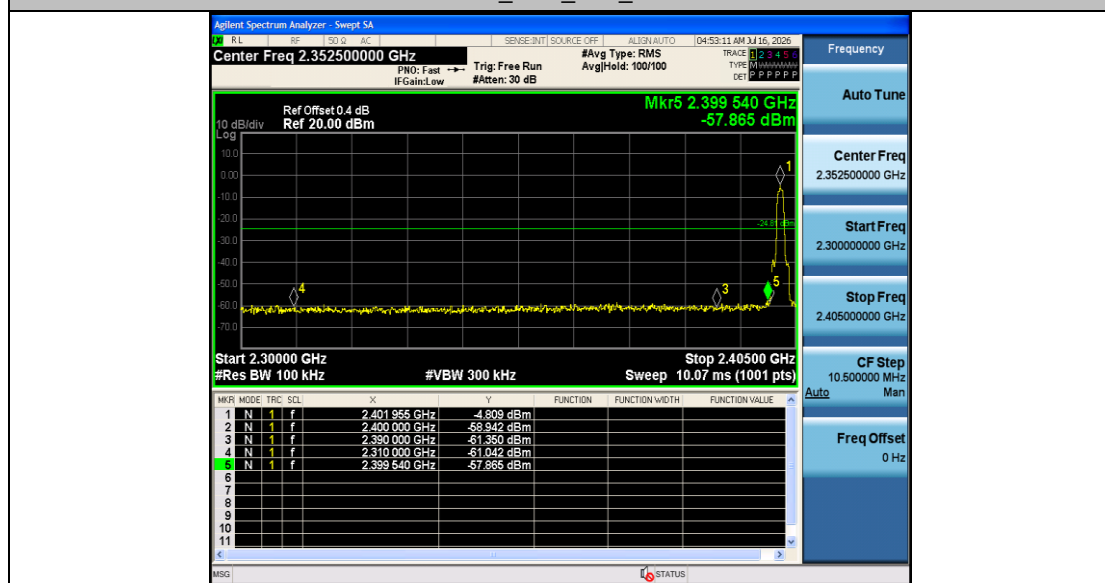




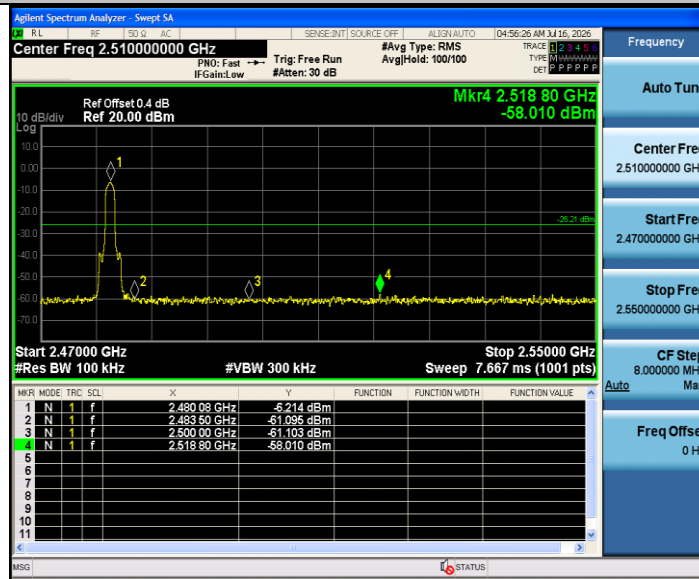
DH5_Ant1_High_Hop_2480



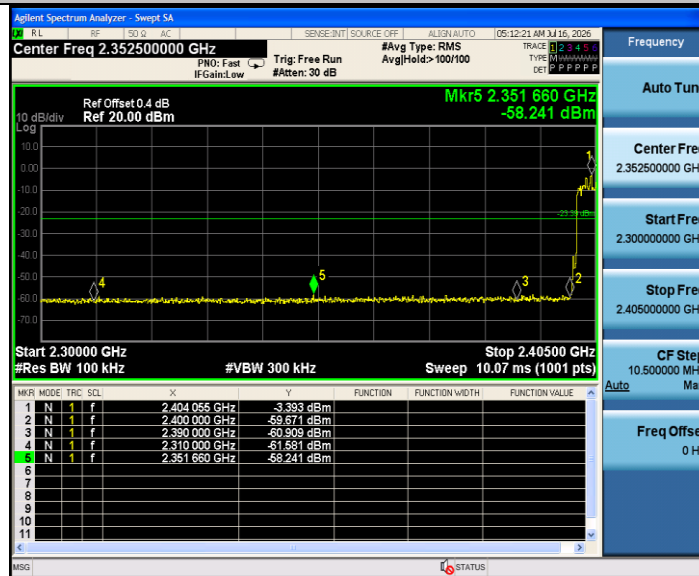
2DH5_Ant1_Low_2402



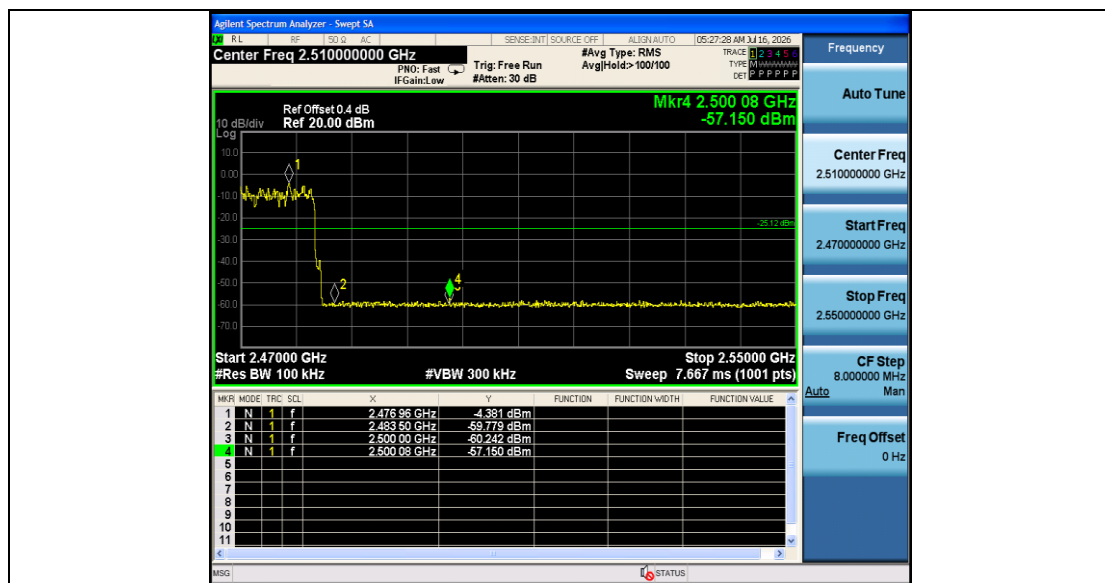
2DH5_Ant1_High_2480



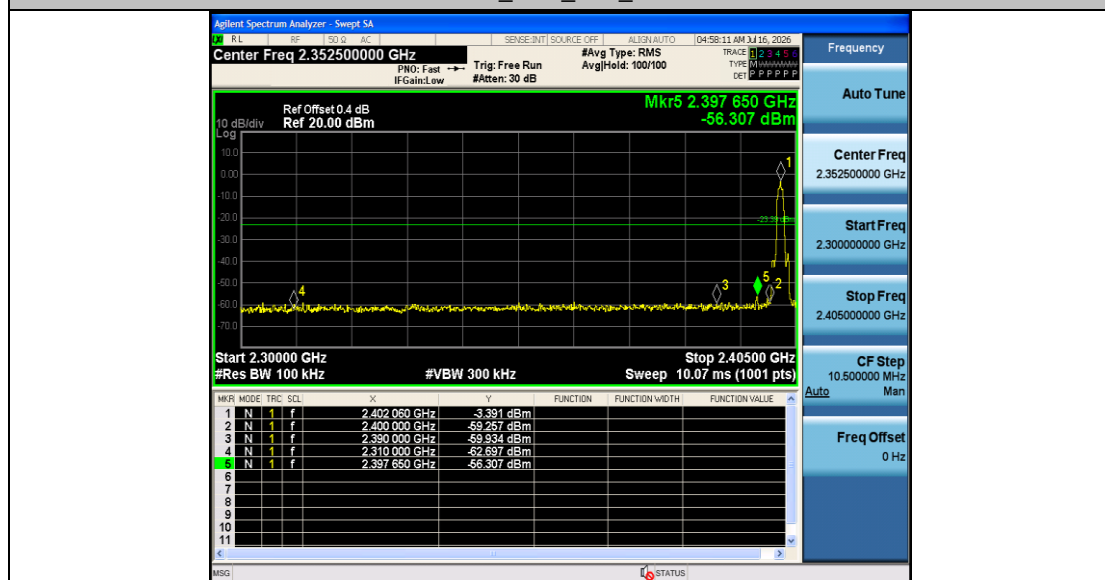
2DH5_Ant1_Low_Hop_2402



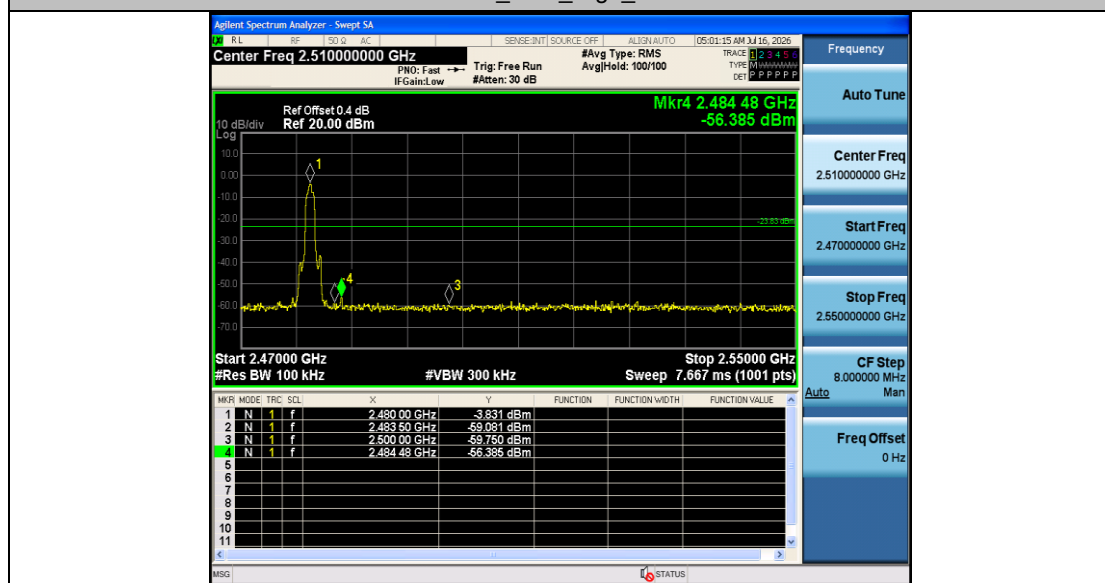
2DH5_Ant1_High_Hop_2480



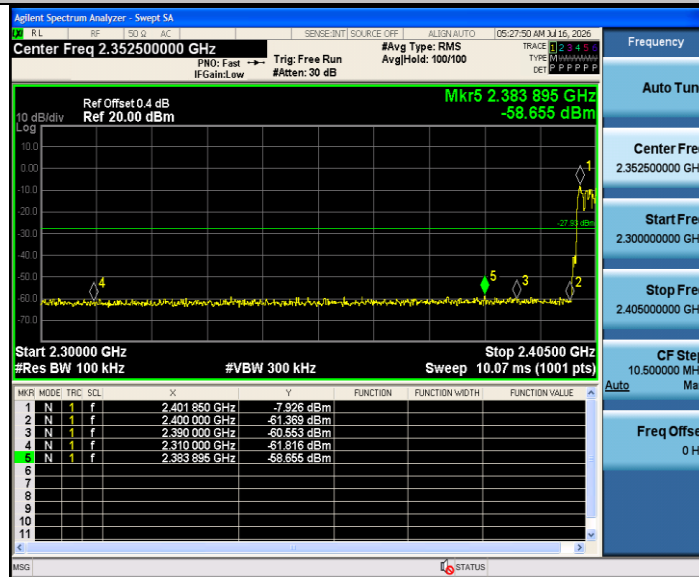
3DH5_Ant1_Low_2402



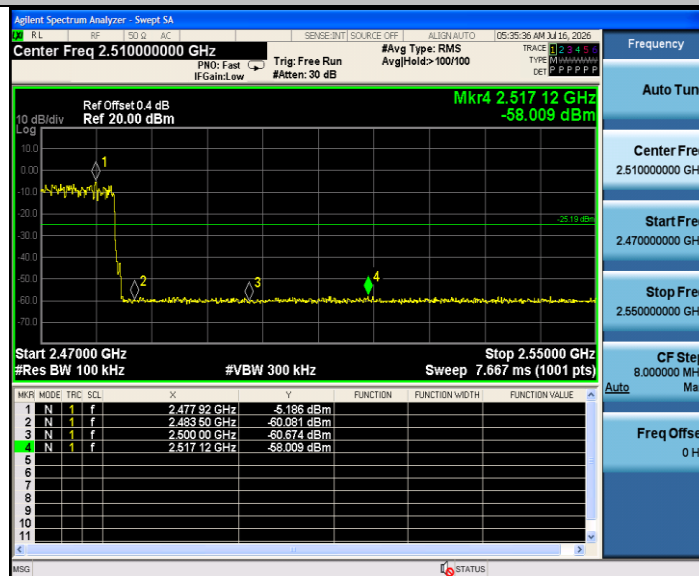
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

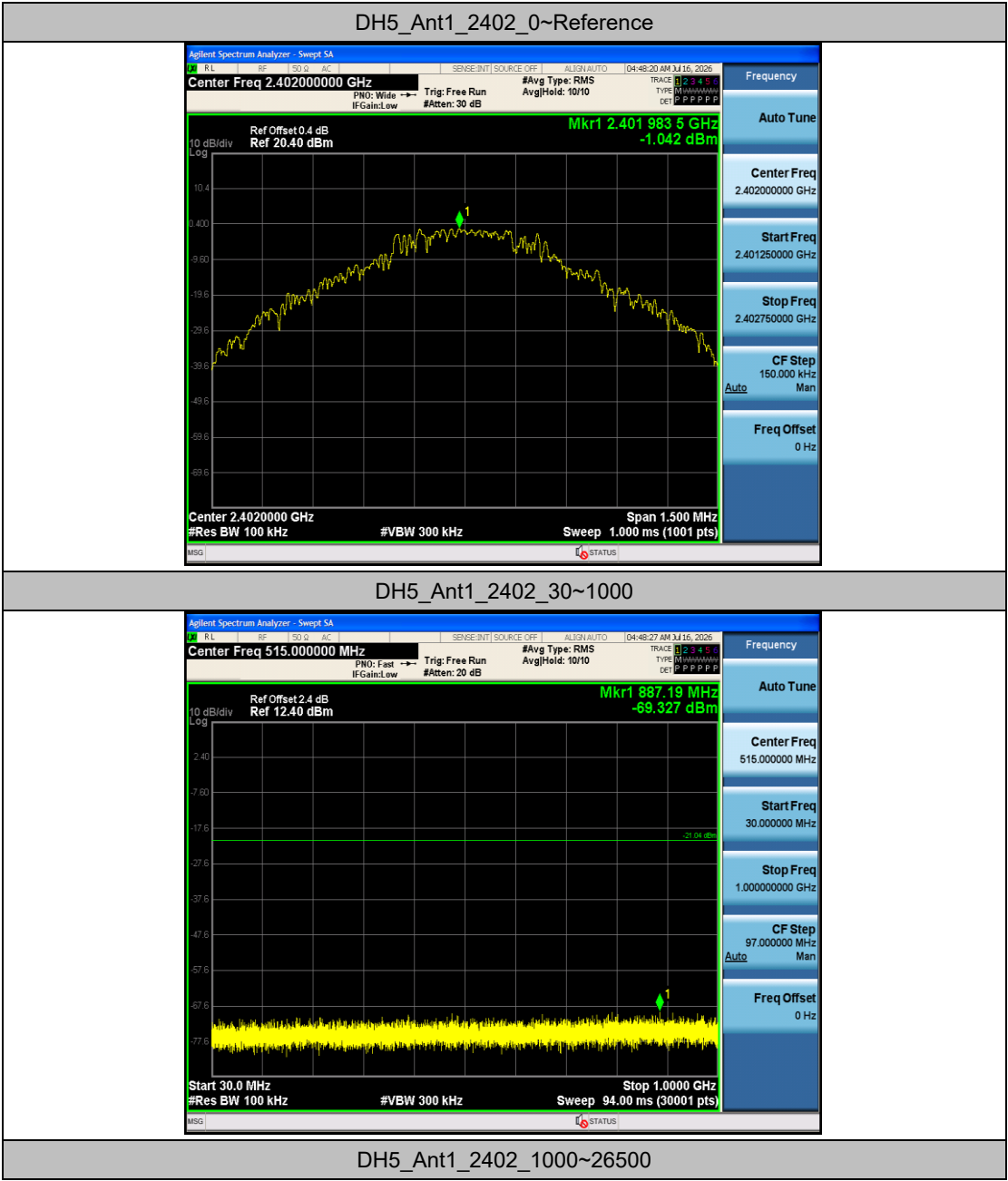


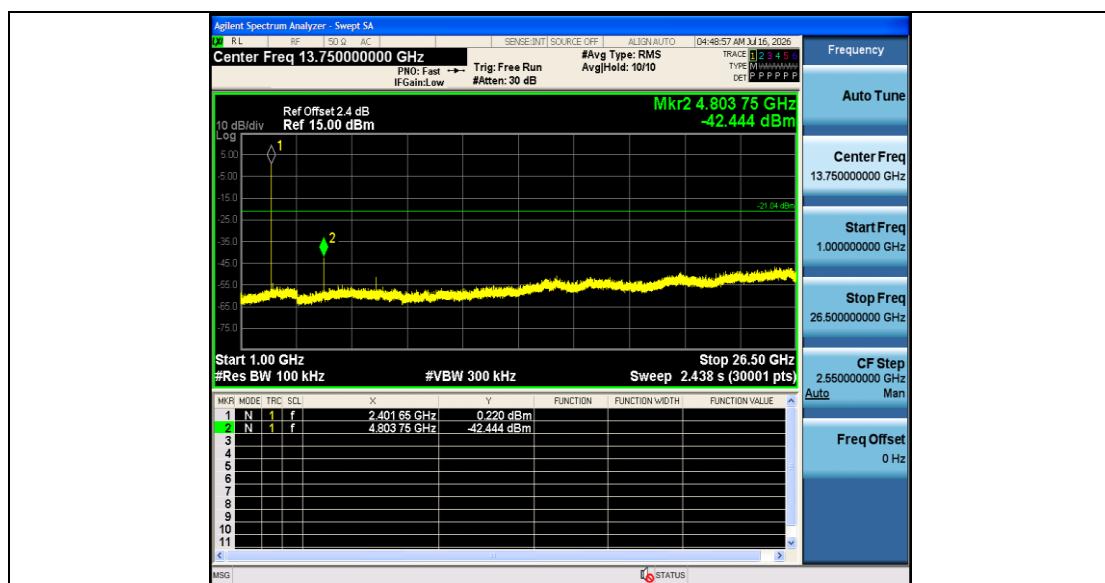
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-69.33	≤-21.04	PASS
			1000~26500	-1.04	-42.44	≤-21.04	PASS
		2441	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-69.19	≤-21.3	PASS
			1000~26500	-1.30	-40.82	≤-21.3	PASS
		2480	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-68.84	≤-21.17	PASS
			1000~26500	-1.17	-41.16	≤-21.17	PASS
2DH5	Ant1	2402	Reference	-4.40	-4.40	---	PASS
			30~1000	-4.40	-68.95	≤-24.4	PASS
			1000~26500	-4.40	-45.49	≤-24.4	PASS
		2441	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-69.08	≤-24.85	PASS
			1000~26500	-4.85	-46.79	≤-24.85	PASS
		2480	Reference	-6.71	-6.71	---	PASS
			30~1000	-6.71	-69.37	≤-26.71	PASS
			1000~26500	-6.71	-46.53	≤-26.71	PASS
3DH5	Ant1	2402	Reference	-6.08	-6.08	---	PASS
			30~1000	-6.08	-69.35	≤-26.08	PASS
			1000~26500	-6.08	-45.74	≤-26.08	PASS
		2441	Reference	-6.80	-6.80	---	PASS
			30~1000	-6.80	-69.5	≤-26.8	PASS
			1000~26500	-6.80	-46.04	≤-26.8	PASS
		2480	Reference	-6.08	-6.08	---	PASS
			30~1000	-6.08	-68.98	≤-26.08	PASS
			1000~26500	-6.08	-47.07	≤-26.08	PASS

Test Graphs

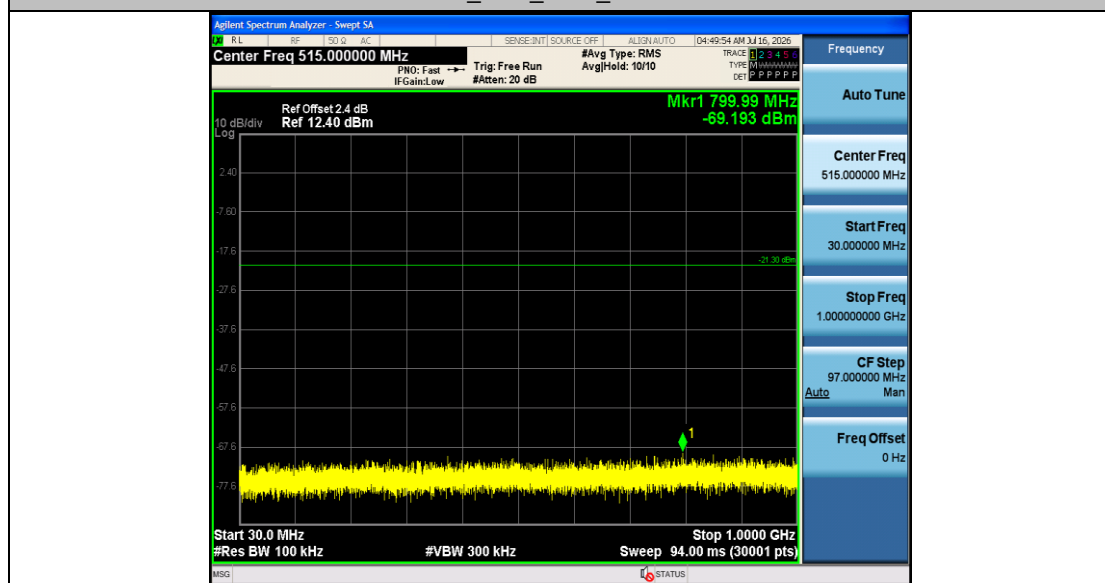




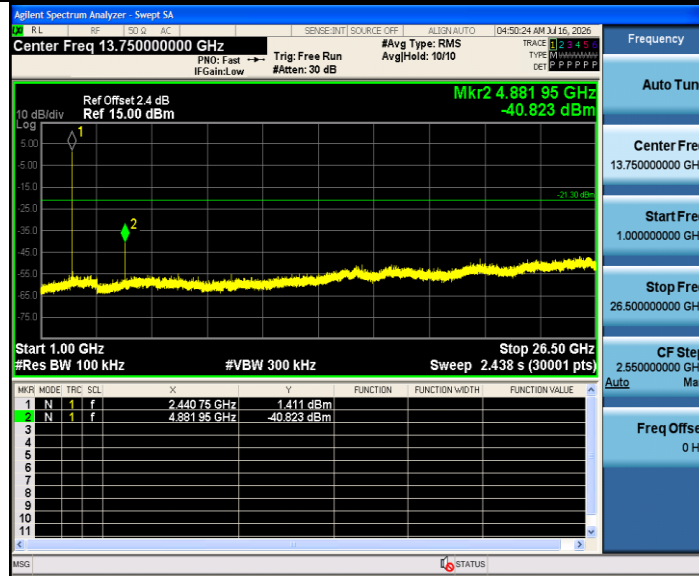
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



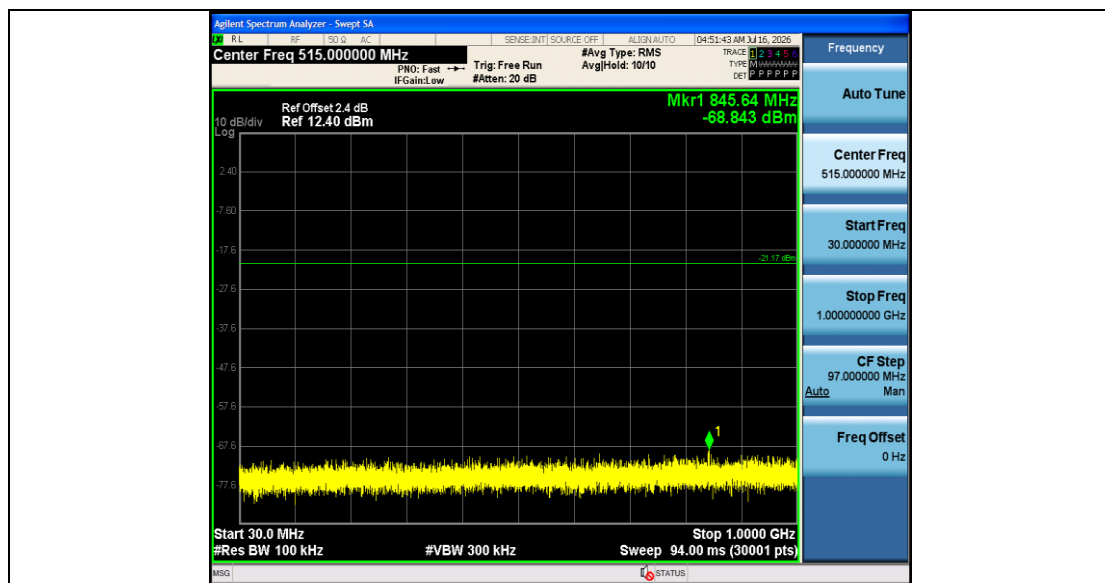
DH5_Ant1_2441_1000~26500



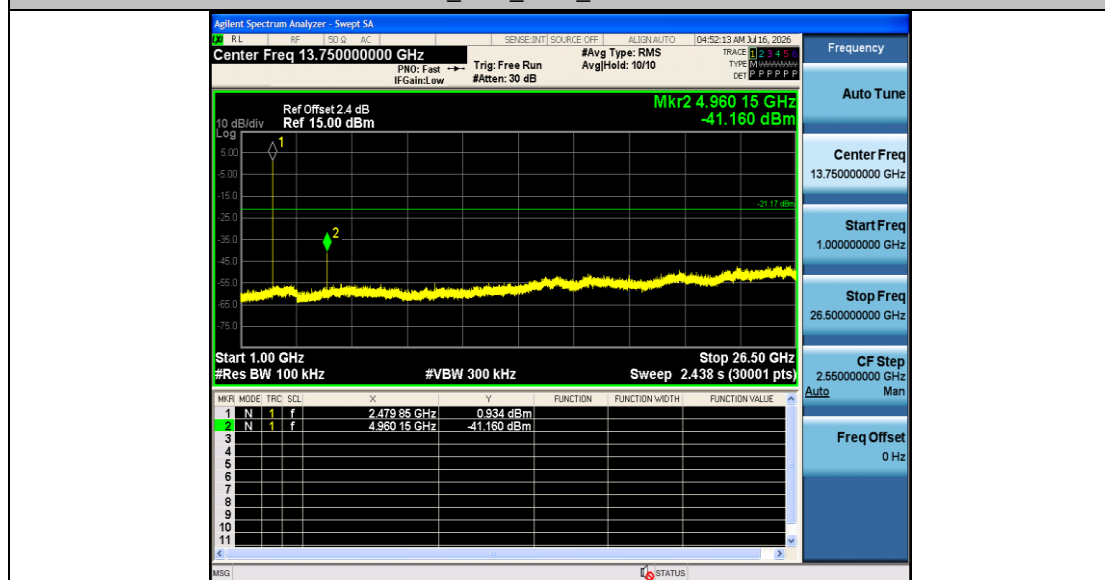
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

