

FCC Appendix RF Test Data for BT

FCC ID : **2BGRLT09**

Company : **Shenzhen Weikang JuLi Intelligent Technology Co., Ltd**

EUT : **WIRELESS KARAOKE SPEAKER**

Model Number : **T09**

Report No. : **CTA26062602301**

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	0.960	2401.532	2402.492	---	---
		2441	0.957	2440.532	2441.489	---	---
		2480	0.957	2479.532	2480.489	---	---
2DH5	Ant1	2402	1.269	2401.370	2402.639	---	---
		2441	1.191	2440.391	2441.582	---	---
		2480	1.194	2479.394	2480.588	---	---
3DH5	Ant1	2402	1.248	2401.367	2402.615	---	---
		2441	1.275	2440.355	2441.630	---	---
		2480	1.212	2479.400	2480.612	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441





3DH5_Ant1_2480

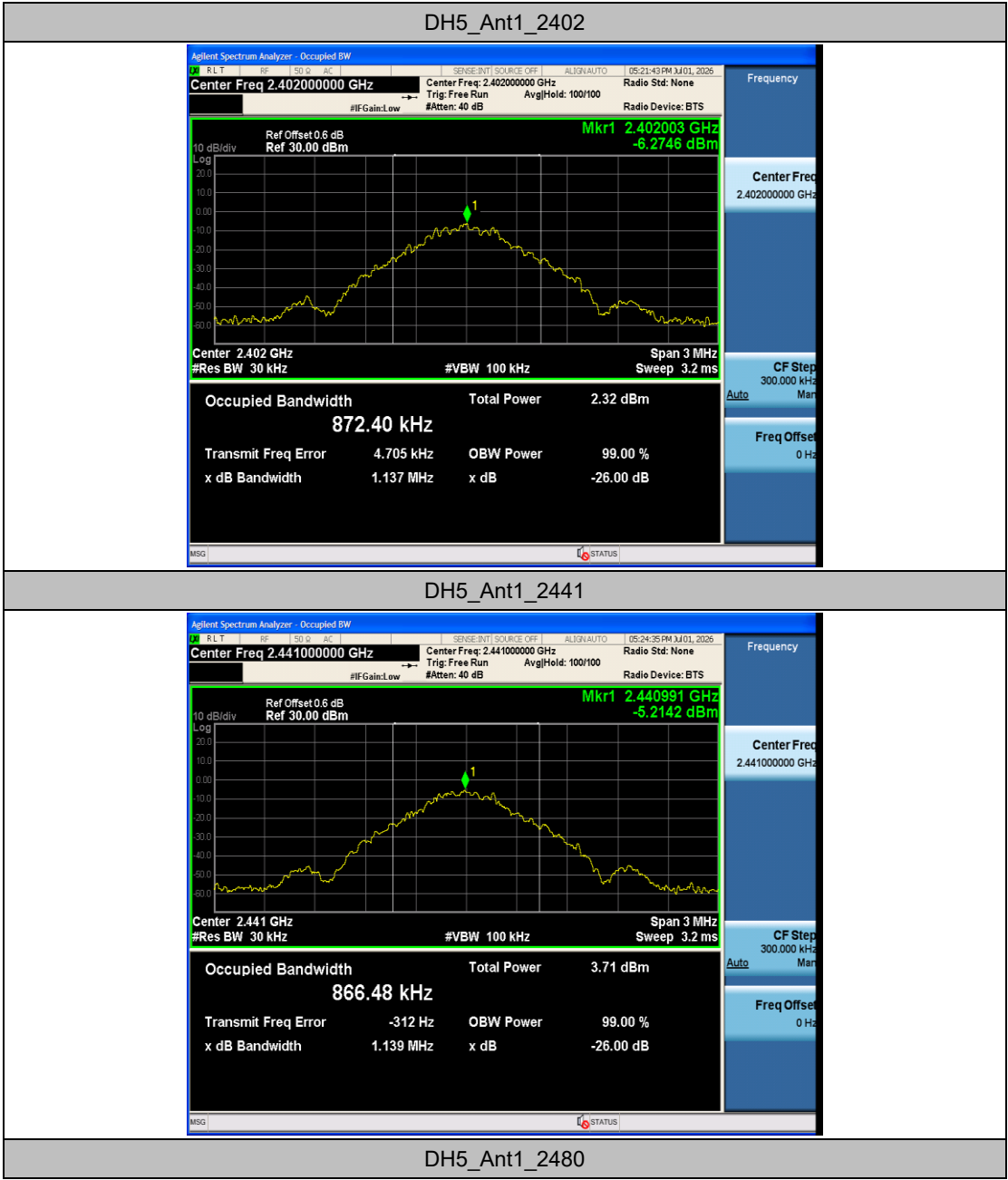


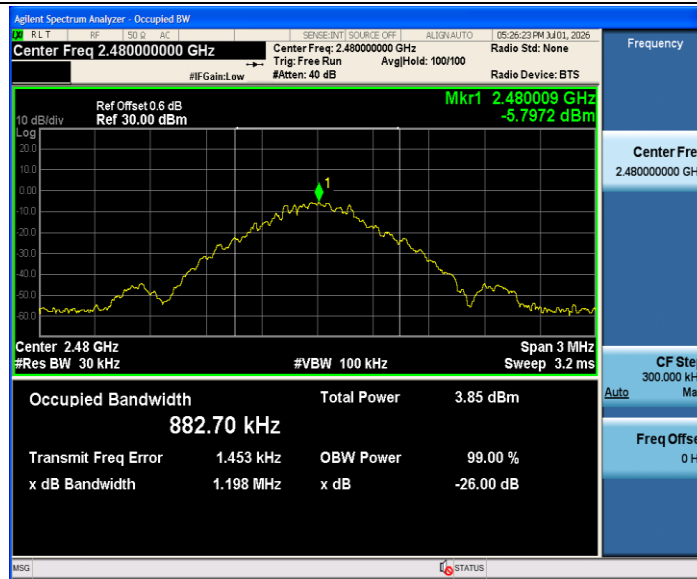
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87240	2401.5685	2402.4409	---	---
		2441	0.86648	2440.5665	2441.4329	---	---
		2480	0.88270	2479.5601	2480.4428	---	---
2DH5	Ant1	2402	1.1602	2401.4151	2402.5753	---	---
		2441	1.1615	2440.4152	2441.5767	---	---
		2480	1.1692	2479.4108	2480.5800	---	---
3DH5	Ant1	2402	1.1823	2401.4091	2402.5914	---	---
		2441	1.1535	2440.4237	2441.5772	---	---
		2480	1.1425	2479.4286	2480.5711	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



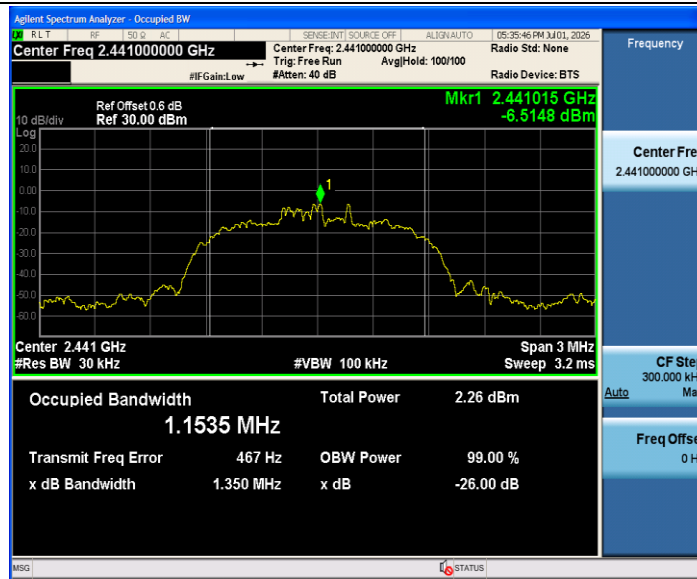
2DH5_Ant1_2480



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	-4.41	≤20.97	PASS
		2441	-3.30	≤20.97	PASS
		2480	-2.86	≤20.97	PASS
2DH5	Ant1	2402	-4.49	≤20.97	PASS
		2441	-3.36	≤20.97	PASS
		2480	-2.91	≤20.97	PASS
3DH5	Ant1	2402	-4.44	≤20.97	PASS
		2441	-3.32	≤20.97	PASS
		2480	-2.89	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.022	≥ 0.960	PASS
2DH5	Ant1	Hop	0.984	≥ 0.846	PASS
3DH5	Ant1	Hop	0.982	≥ 0.850	PASS

Test Graphs



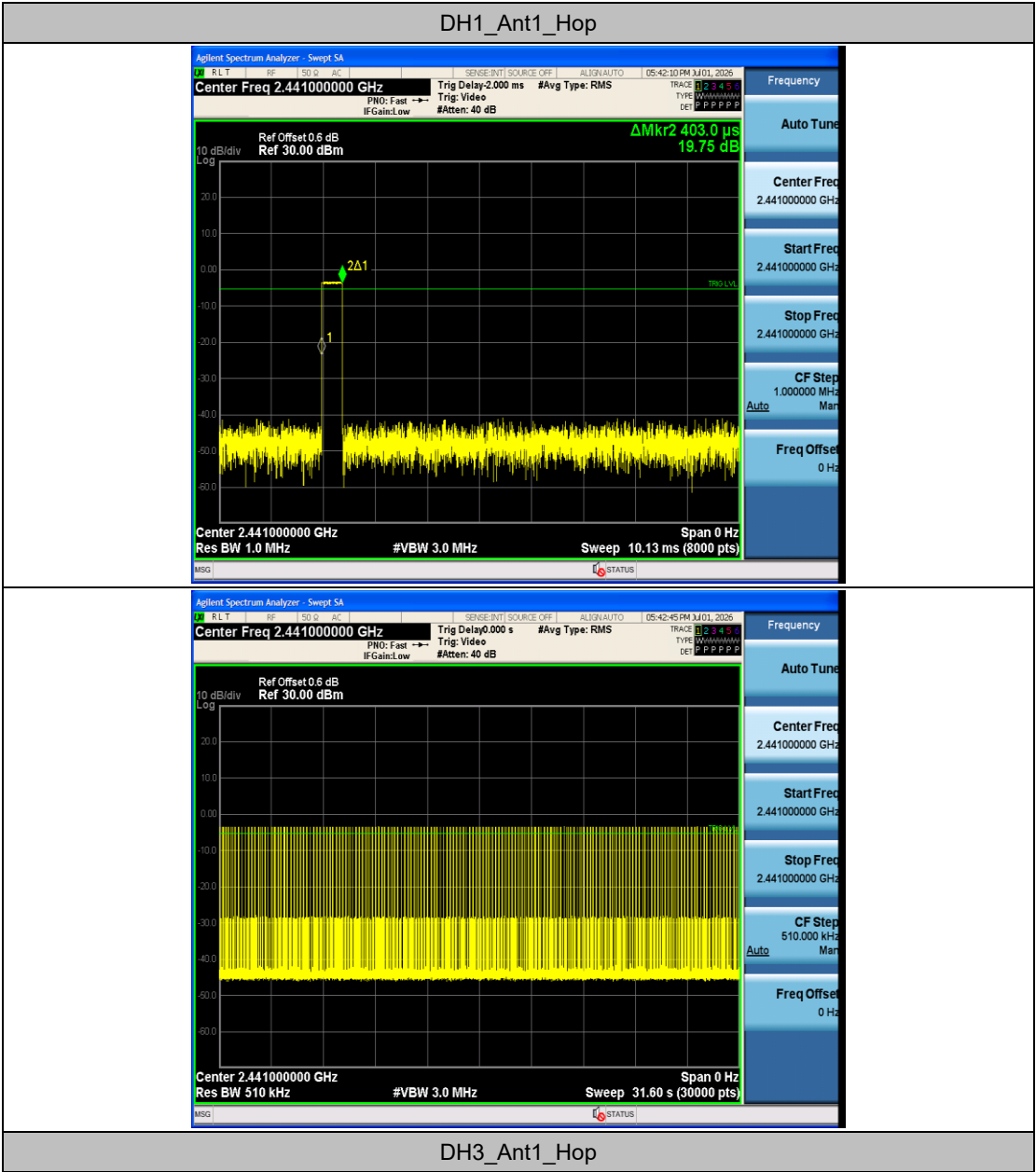


Appendix E: Time of occupancy

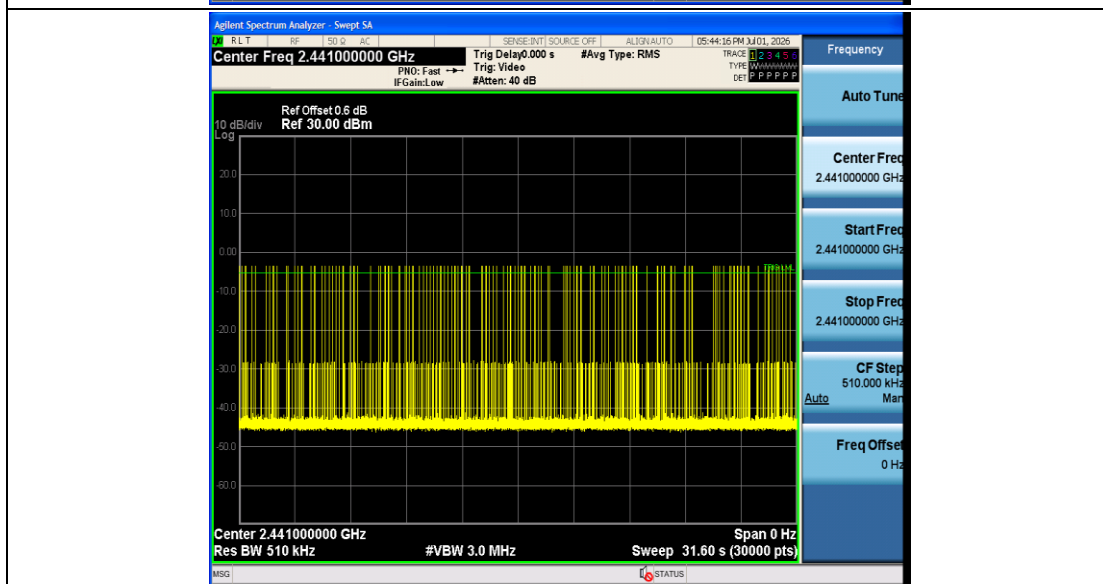
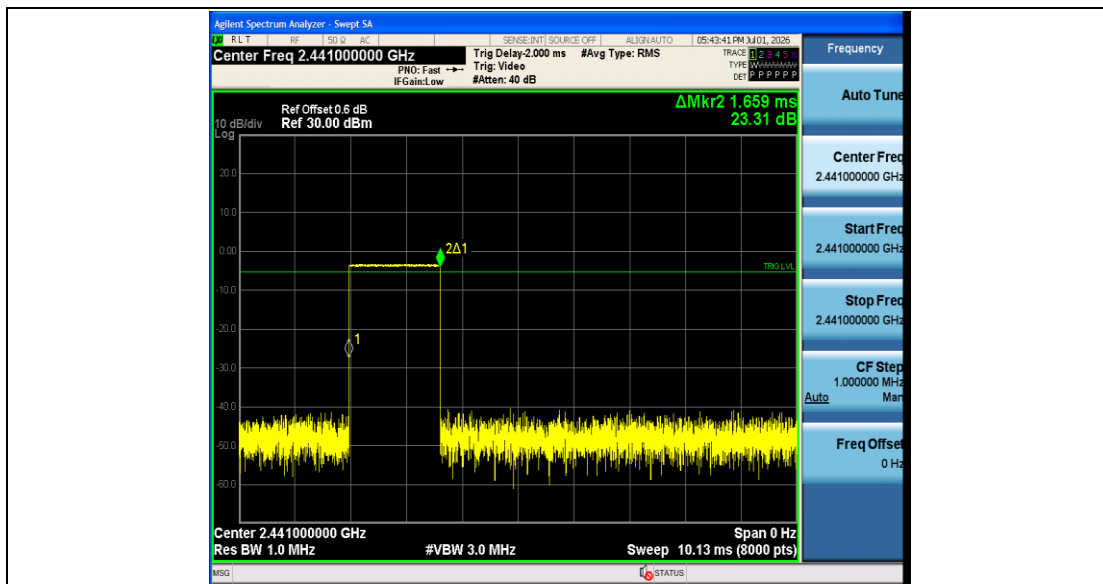
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.403	319	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.659	157	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.907	114	0.331	≤0.4	PASS
2DH1	Ant1	Hop	0.413	318	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.664	160	0.266	≤0.4	PASS
2DH5	Ant1	Hop	2.912	109	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.413	317	0.131	≤0.4	PASS
3DH3	Ant1	Hop	1.662	158	0.263	≤0.4	PASS
3DH5	Ant1	Hop	2.913	109	0.318	≤0.4	PASS

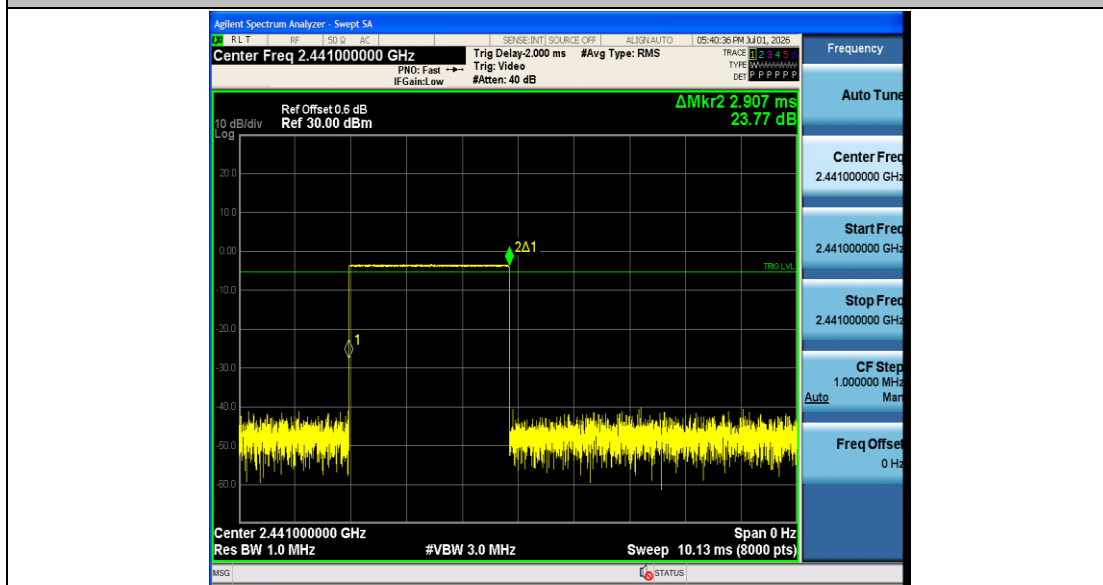
Test Graphs

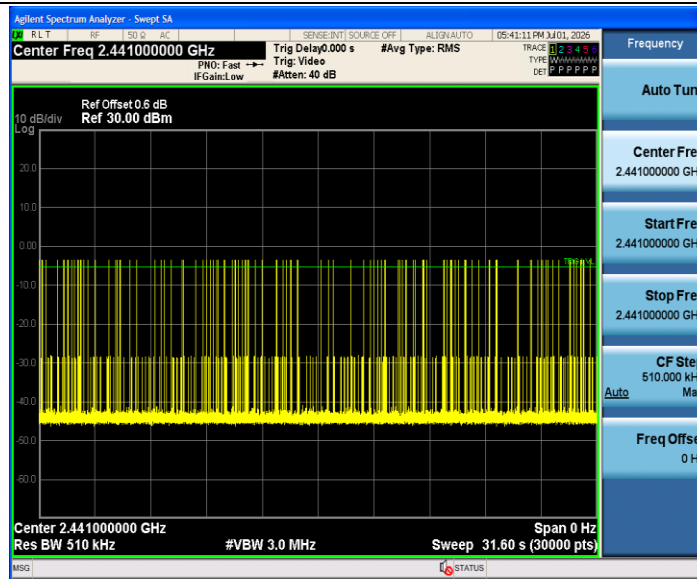


DH3_Ant1_Hop

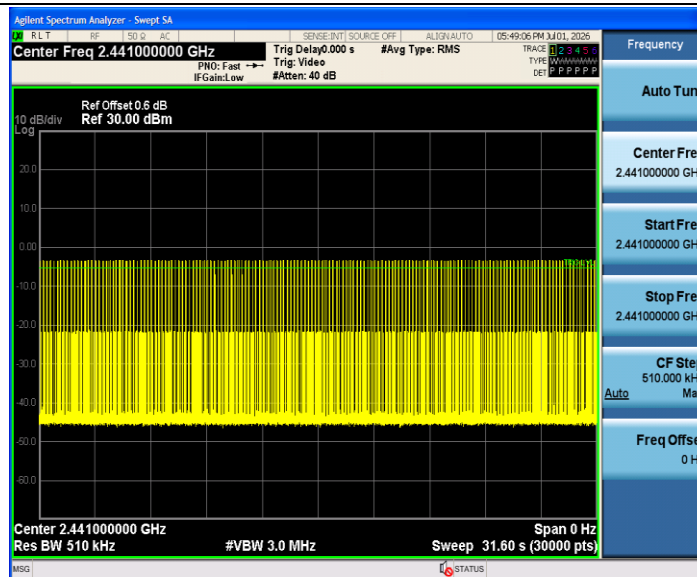
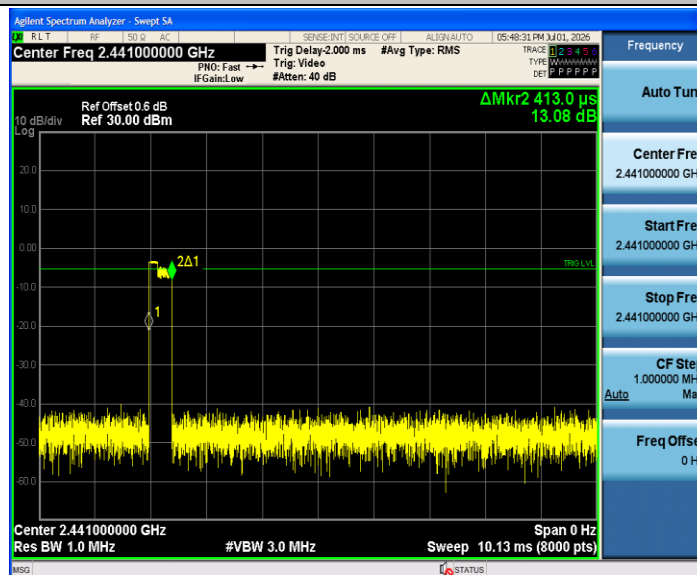


DH5_Ant1_Hop

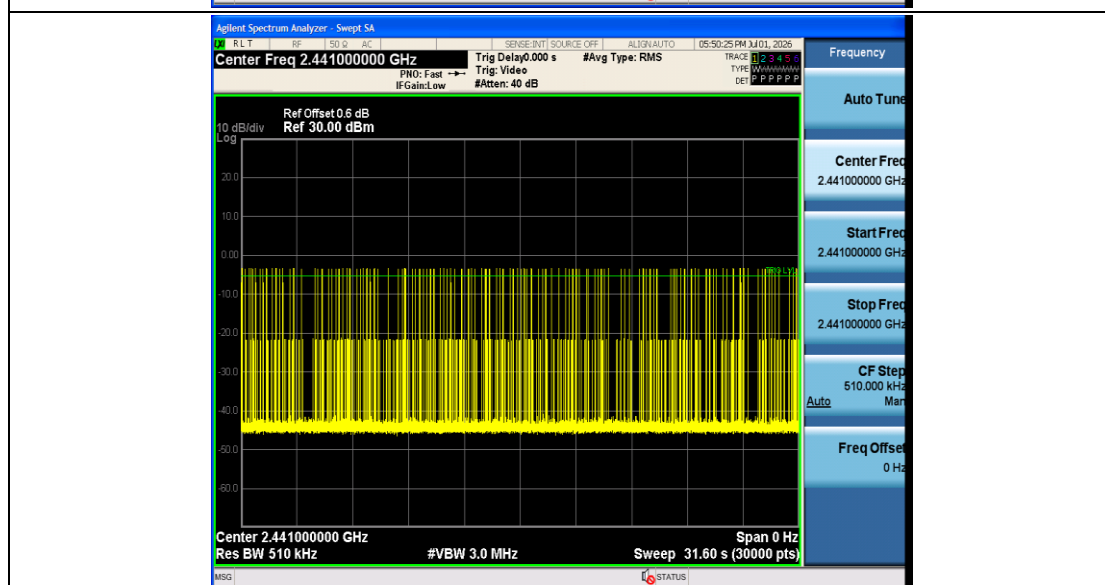
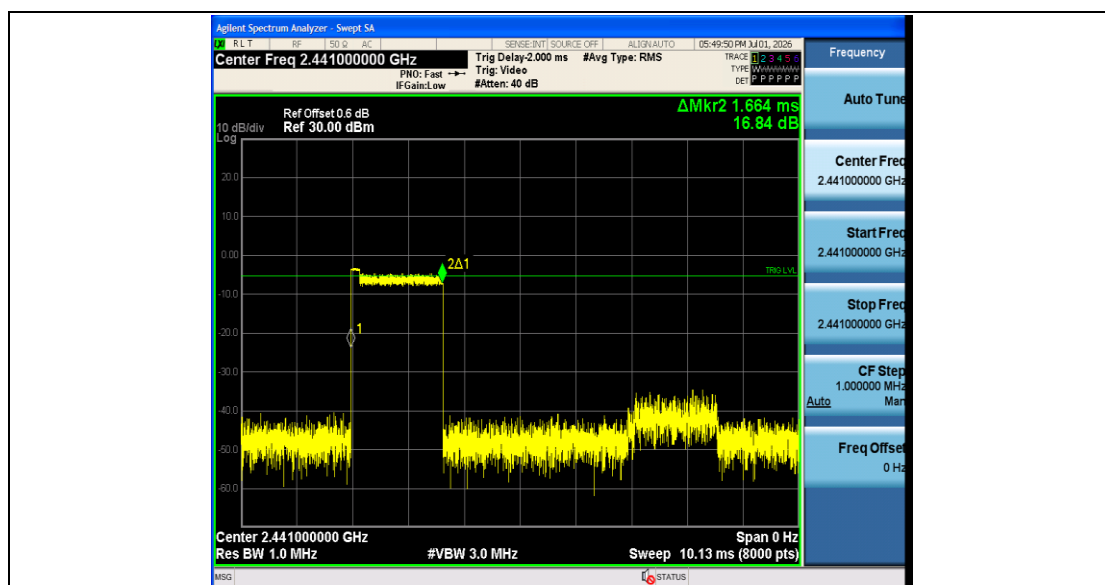




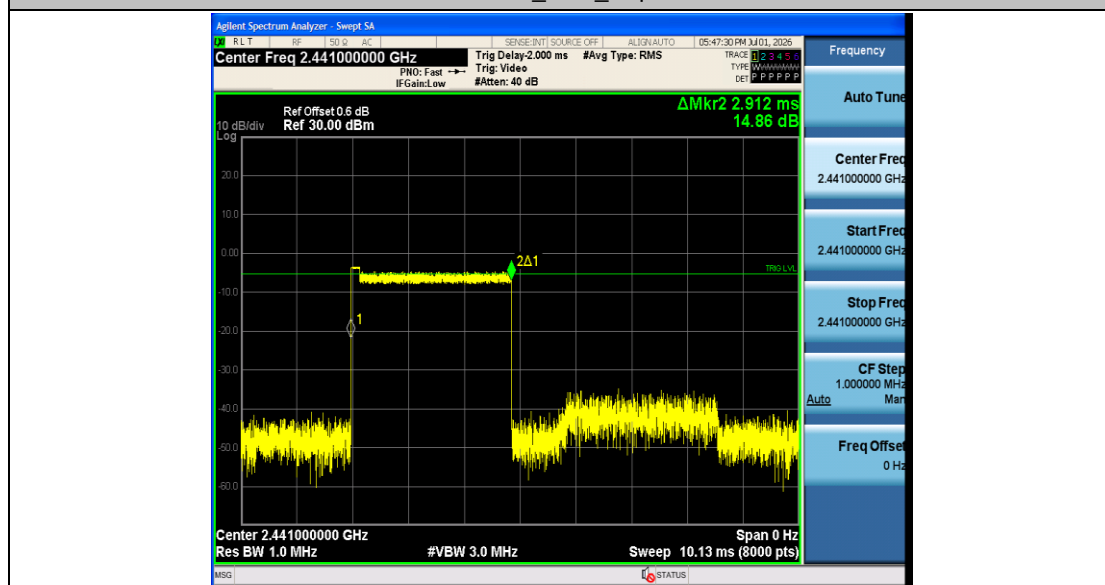
2DH1_Ant1_Hop

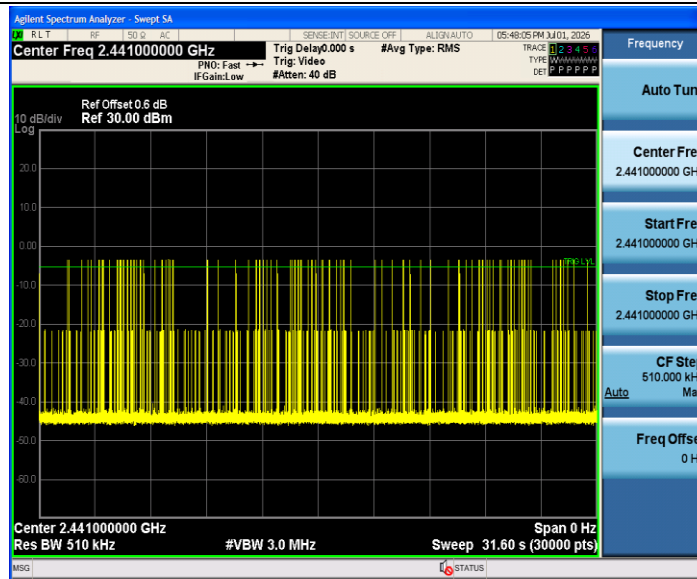


2DH3_Ant1_Hop

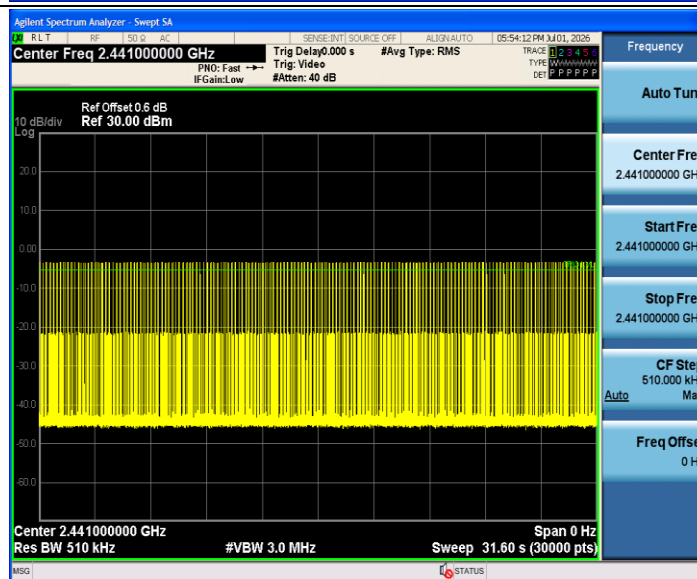
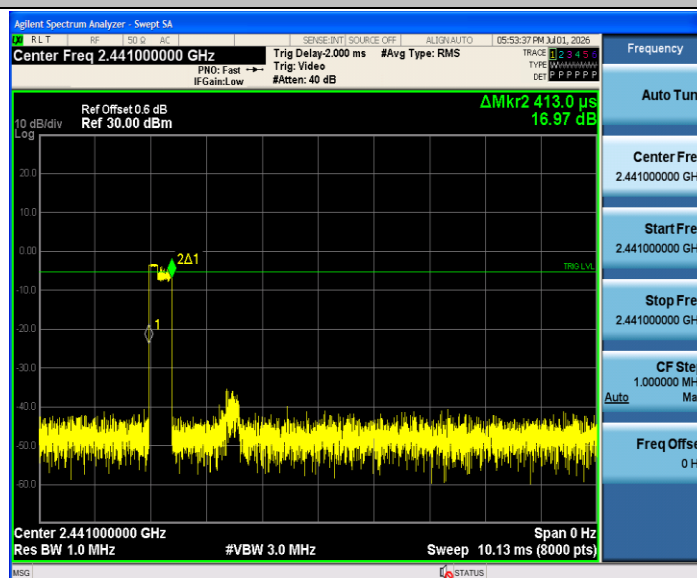


2DH5_Ant1_Hop

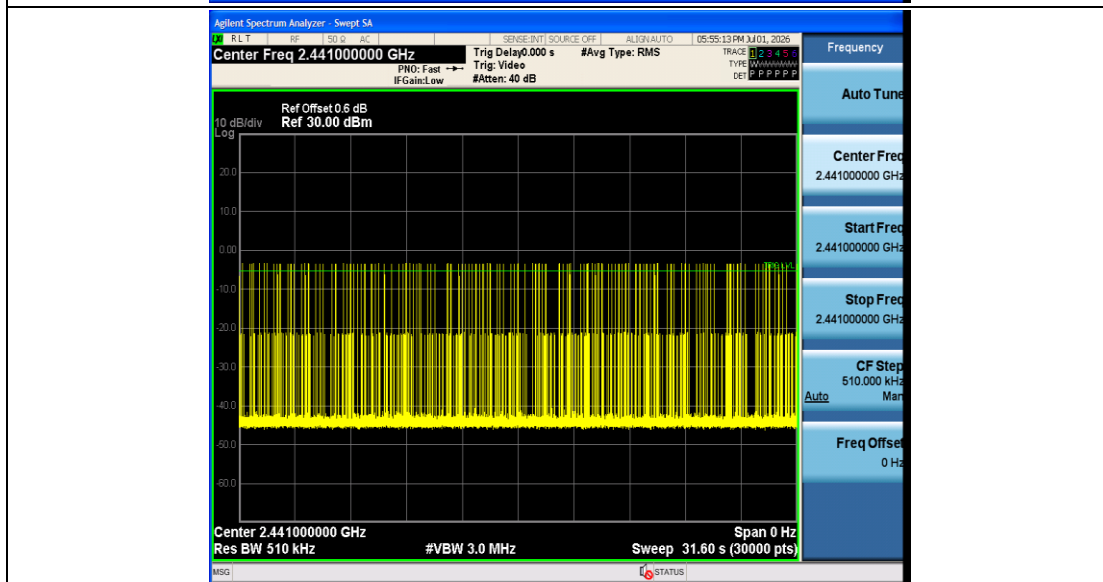
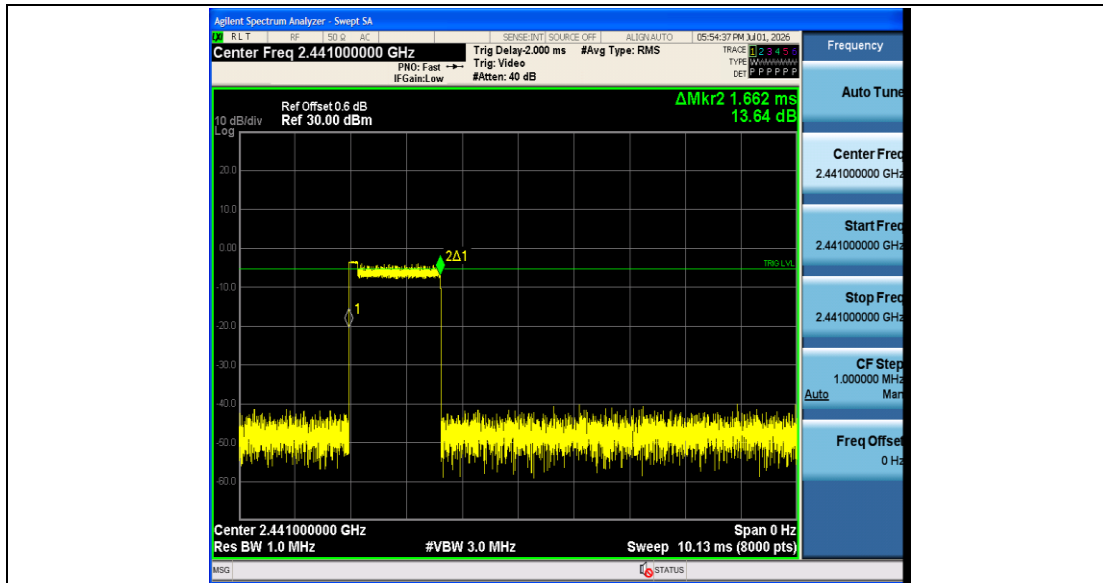




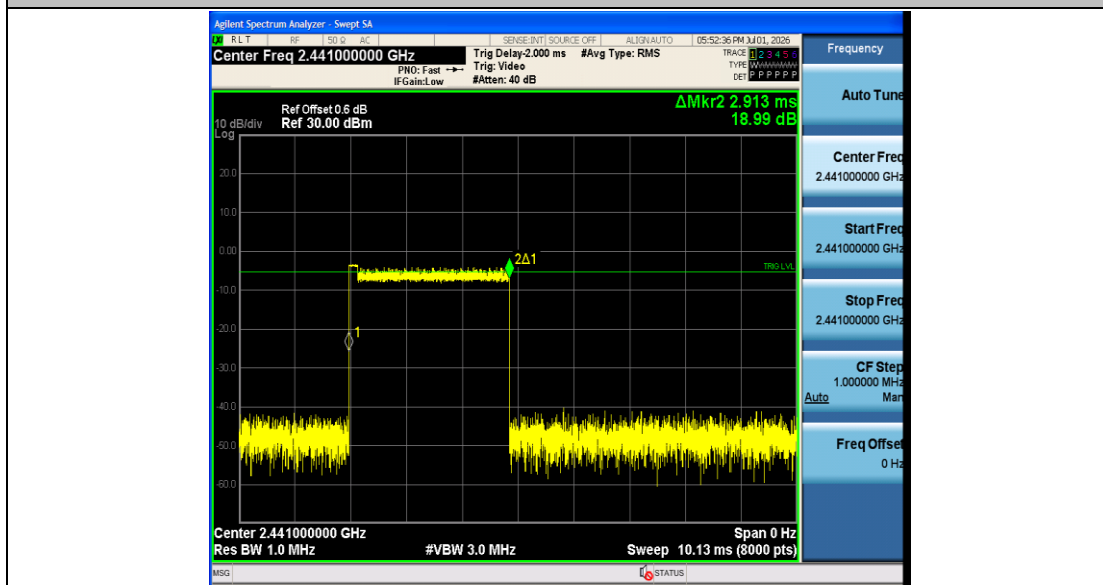
3DH1_Ant1_Hop

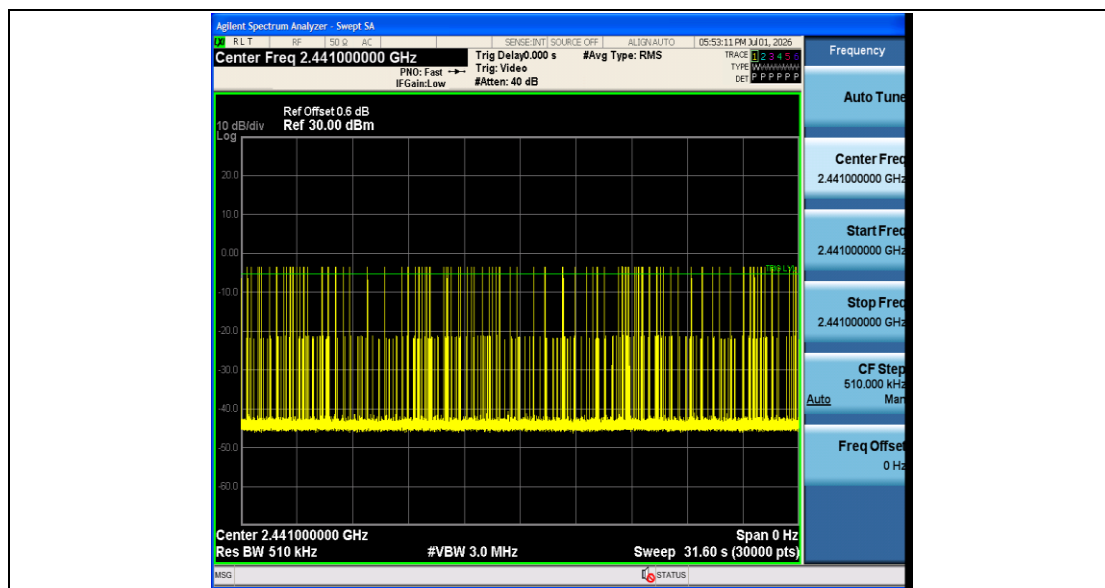


3DH3_Ant1_Hop



3DH5_Ant1_Hop



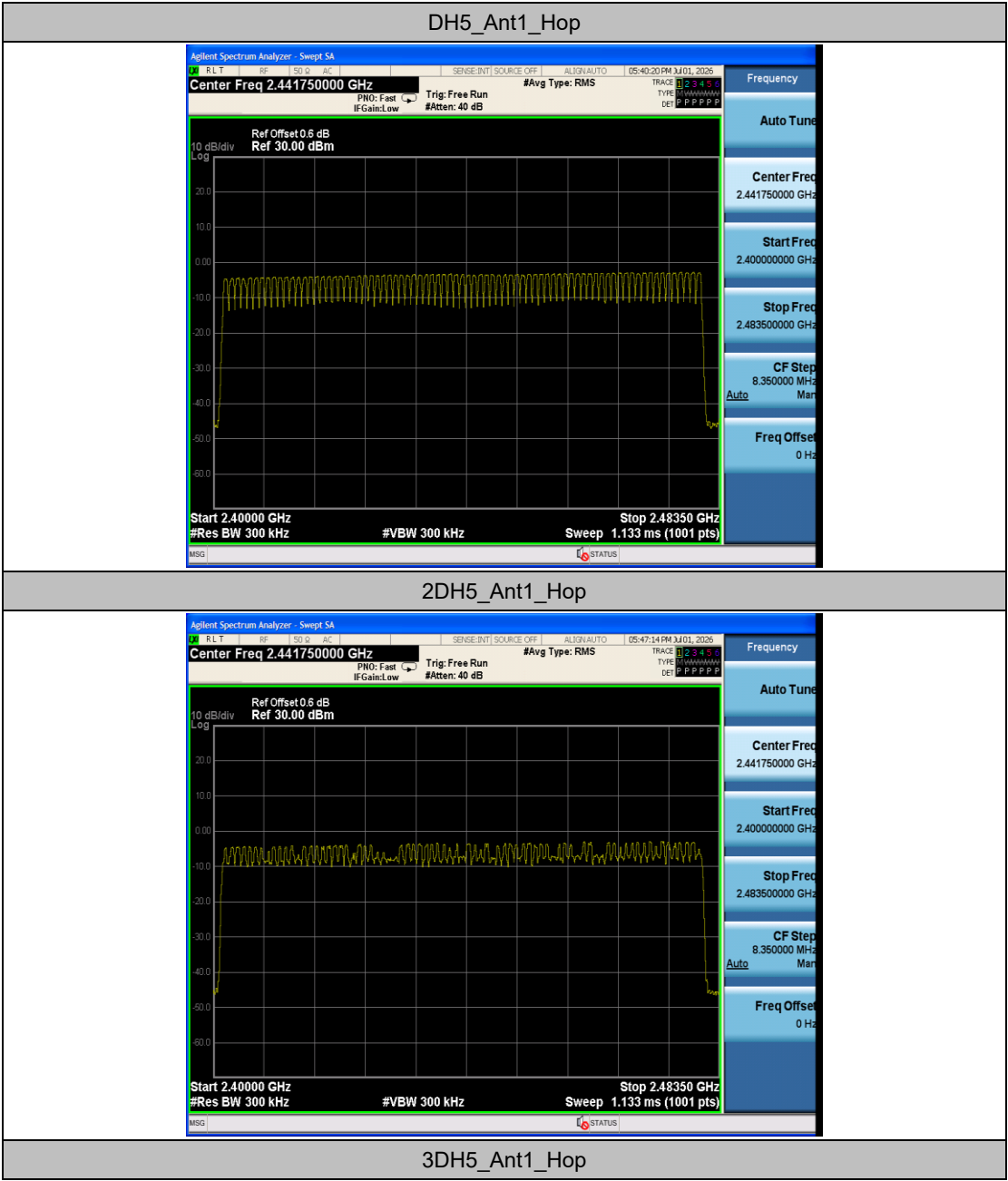


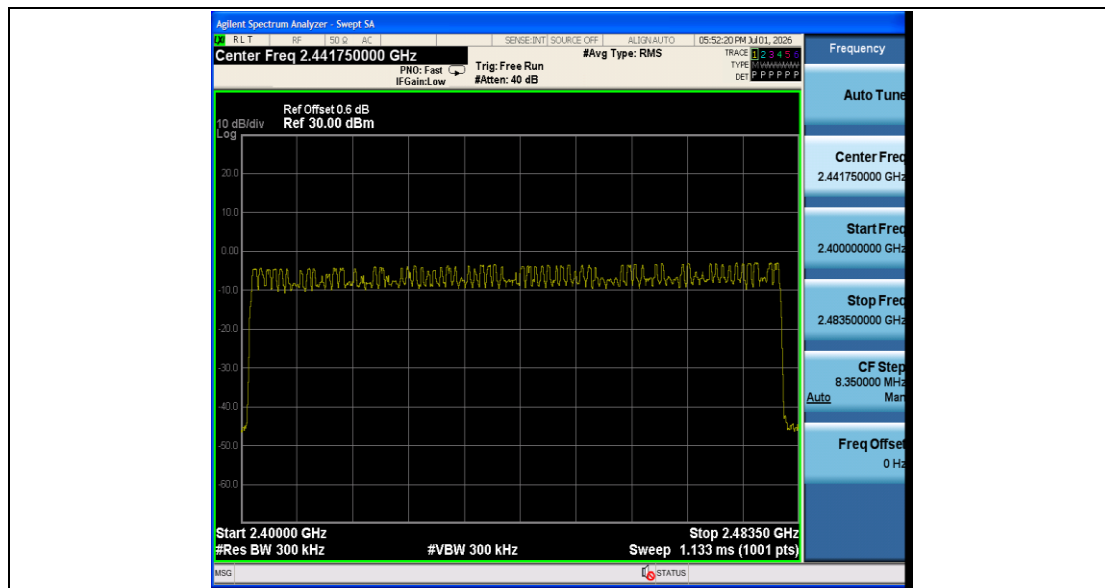
Appendix F: Number of hopping channels

Test Result

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



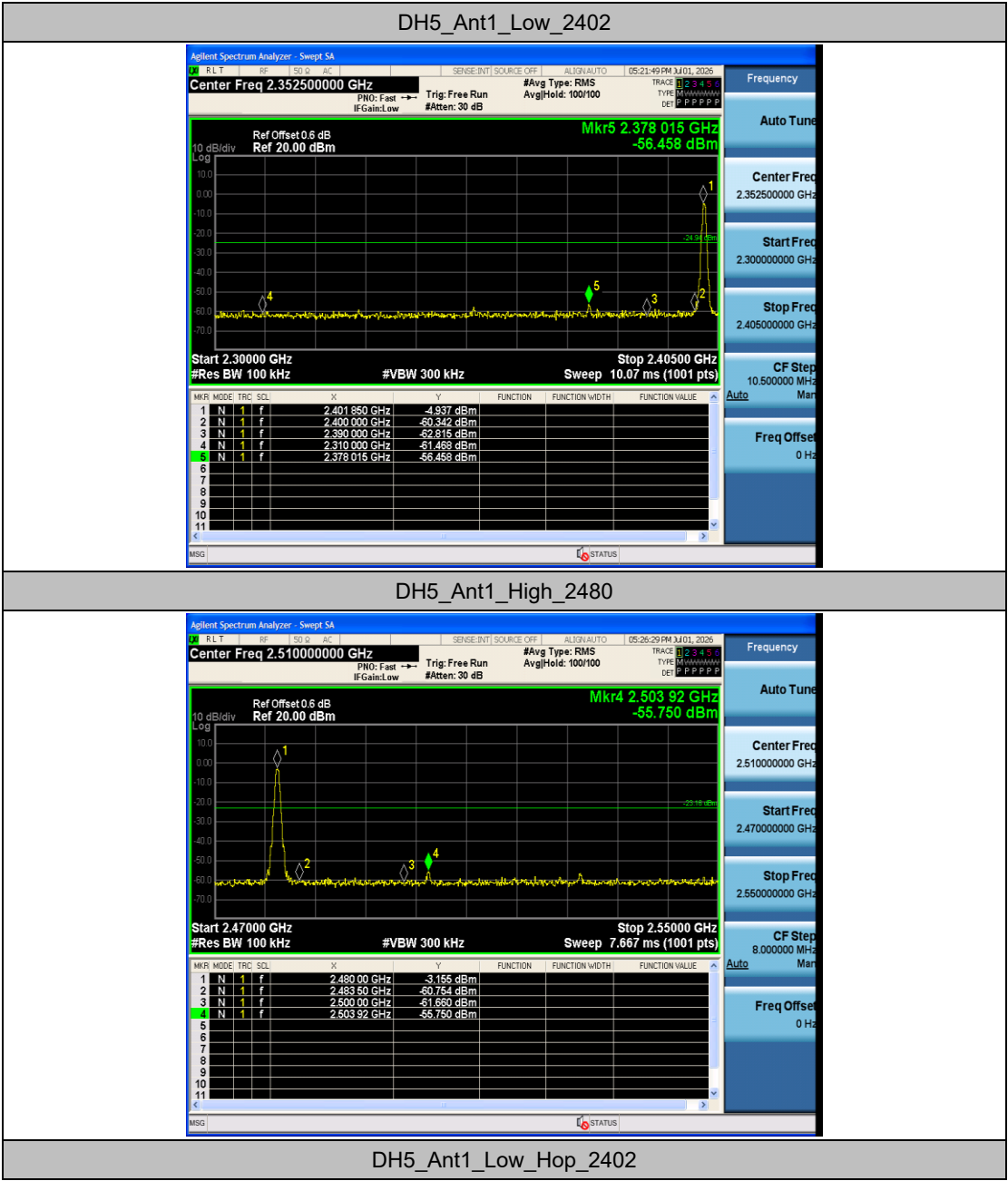


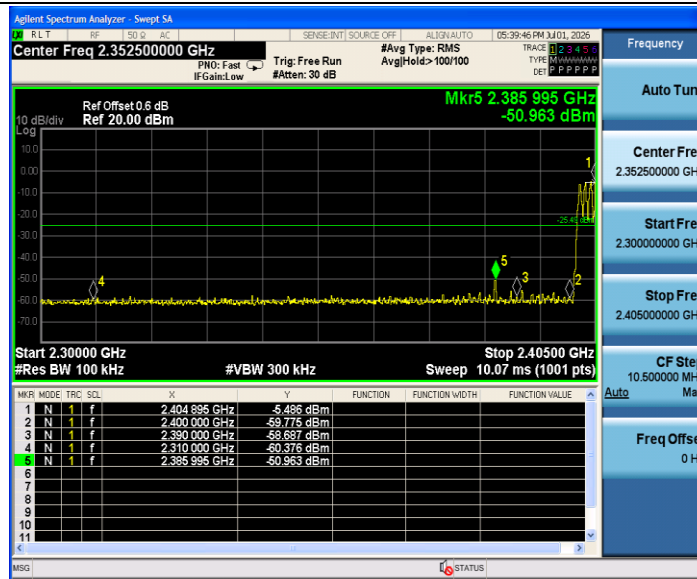
Appendix G: Band edge measurements

Test Result

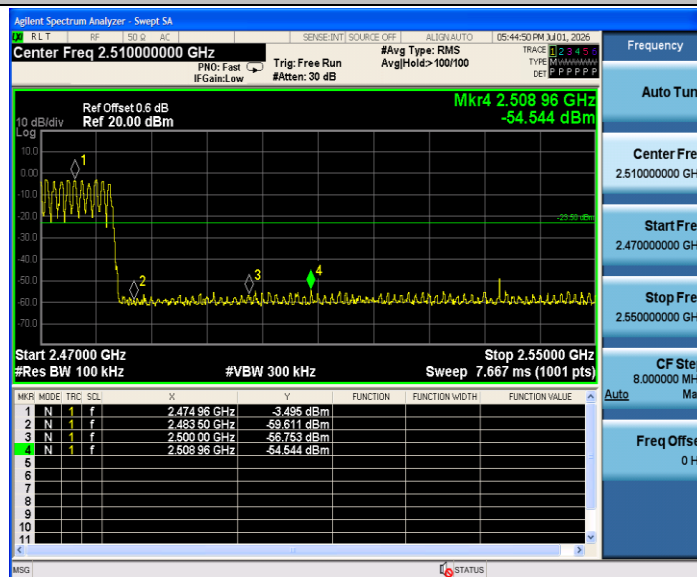
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.94	-56.46	≤ -24.94	PASS
		High	2480	-3.16	-55.75	≤ -23.16	PASS
		Low	Hop_2402	-5.49	-50.96	≤ -25.49	PASS
		High	Hop_2480	-3.50	-54.54	≤ -23.5	PASS
2DH5	Ant1	Low	2402	-9.88	-58.39	≤ -29.88	PASS
		High	2480	-3.16	-57.06	≤ -23.16	PASS
		Low	Hop_2402	-10.57	-56.27	≤ -30.57	PASS
		High	Hop_2480	-6.53	-56.38	≤ -26.53	PASS
3DH5	Ant1	Low	2402	-4.74	-55.07	≤ -24.74	PASS
		High	2480	-3.92	-54.07	≤ -23.92	PASS
		Low	Hop_2402	-4.66	-54.58	≤ -24.66	PASS
		High	Hop_2480	-3.32	-54.31	≤ -23.32	PASS

Test Graphs

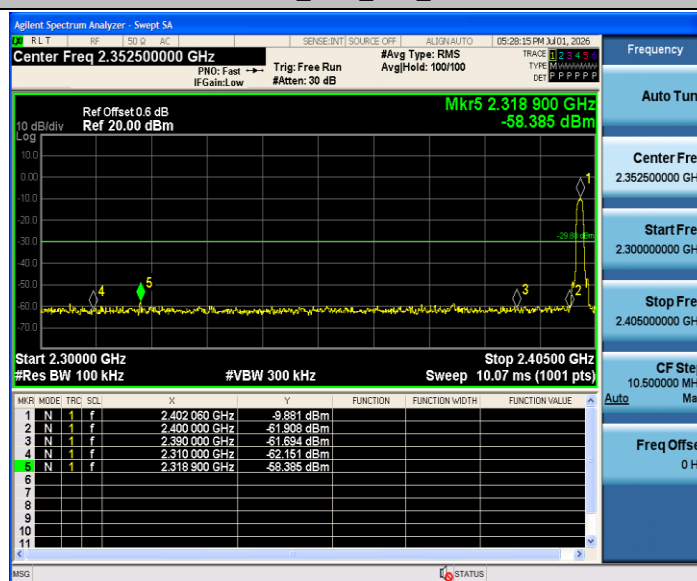




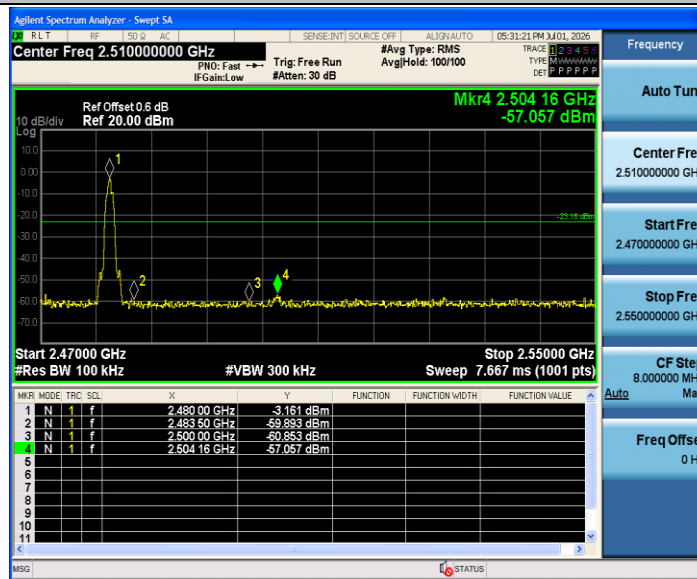
DH5_Ant1_High_Hop_2480



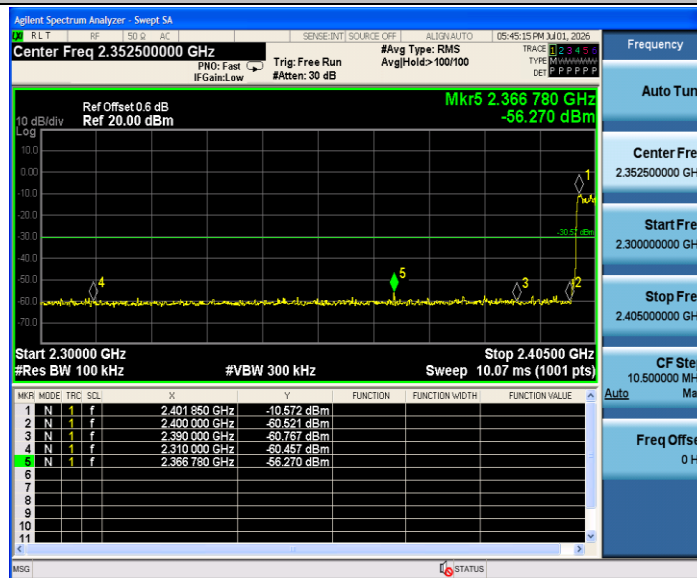
2DH5_Ant1_Low_2402



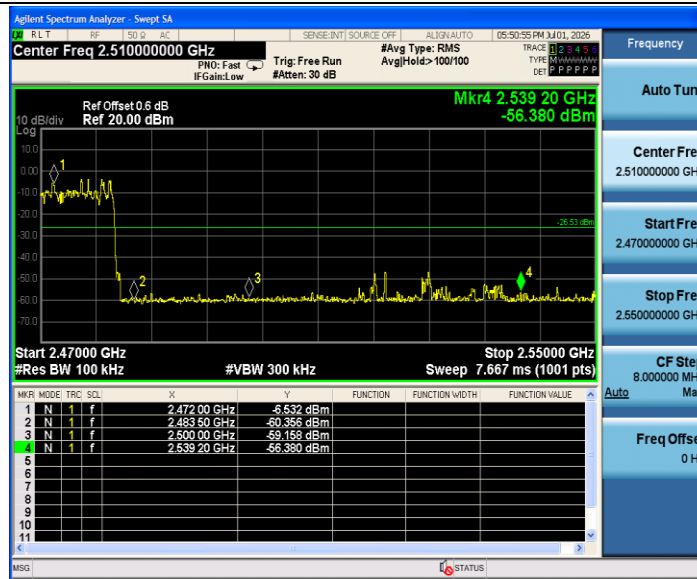
2DH5_Ant1_High_2480



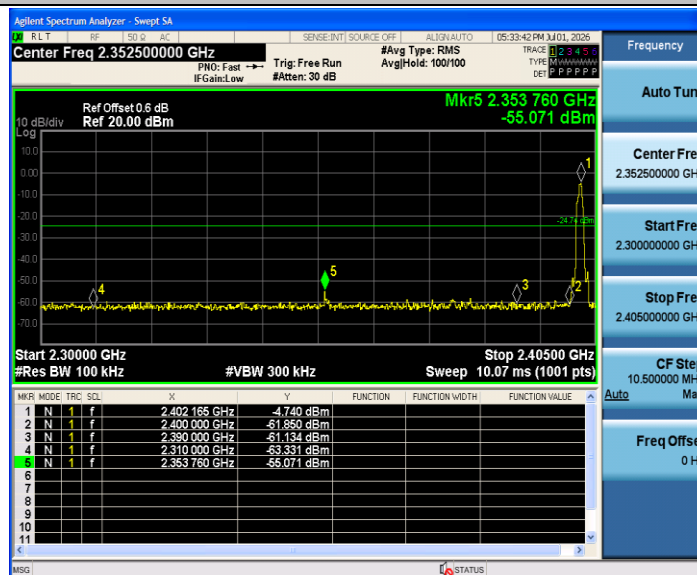
2DH5_Ant1_Low_Hop_2402



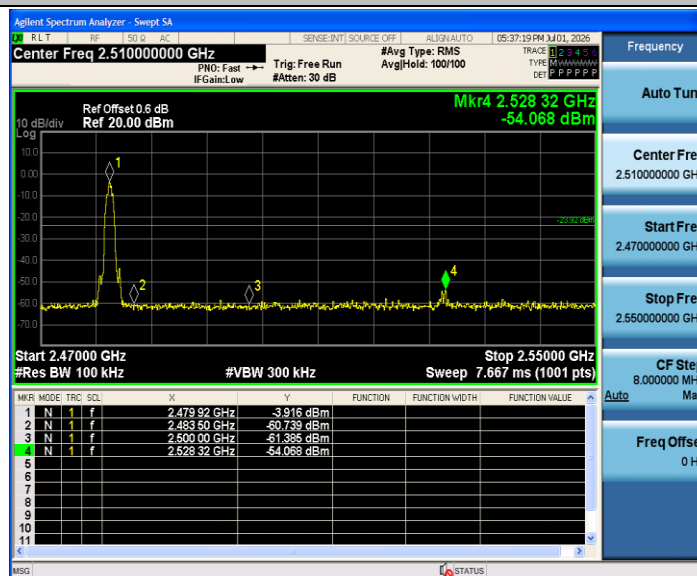
2DH5_Ant1_High_Hop_2480



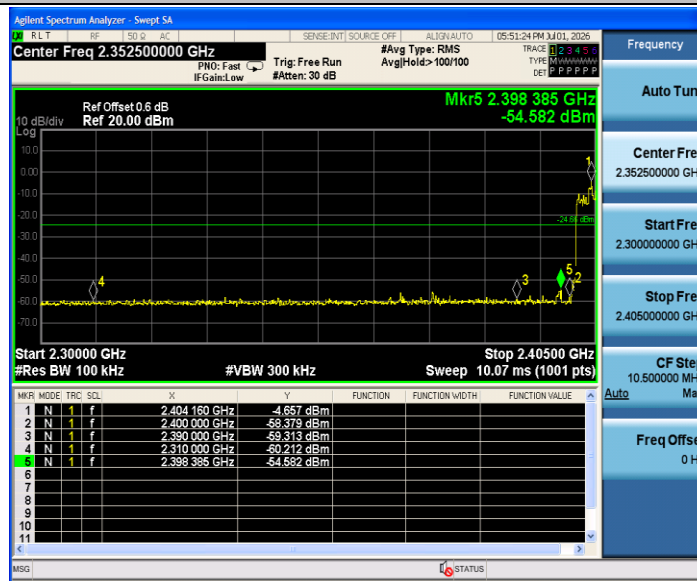
3DH5_Ant1_Low_2402



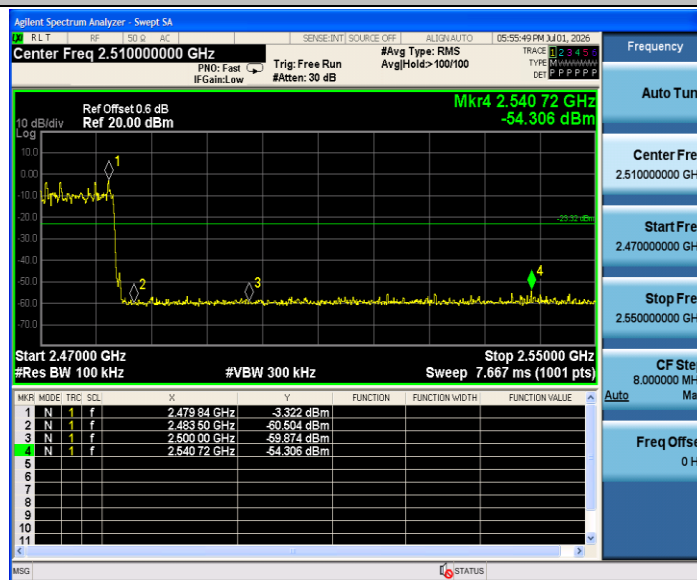
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

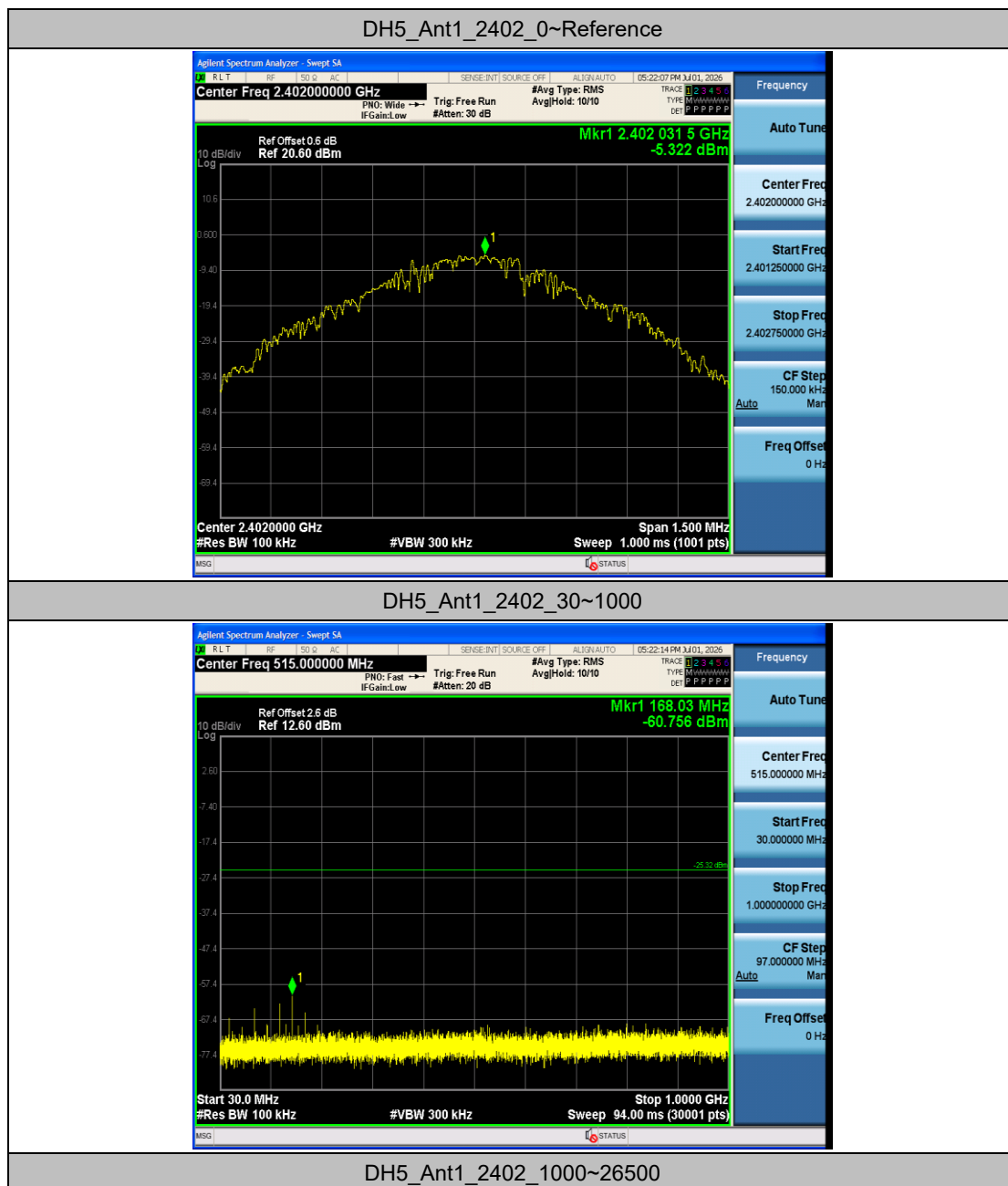


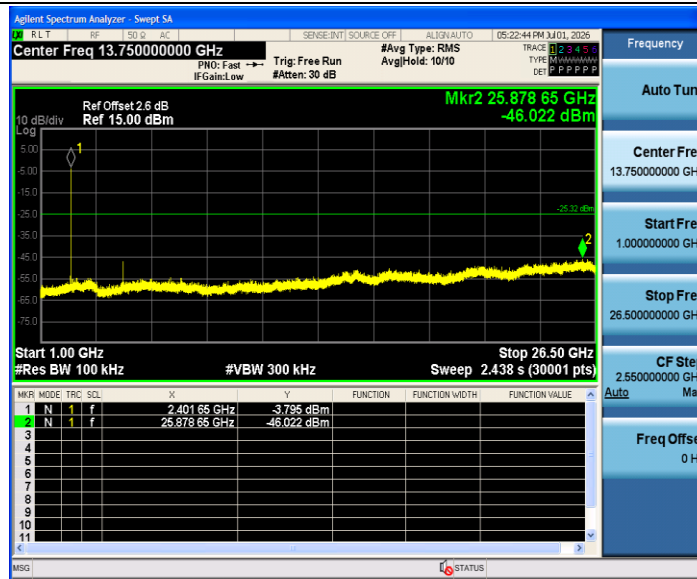
Appendix H: Conducted Spurious Emission

Test Result

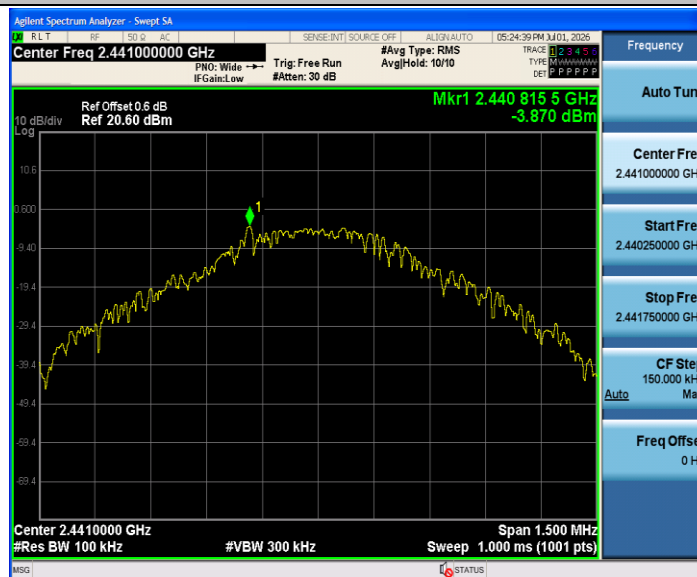
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-5.32	-5.32	---	PASS
			30~1000	-5.32	-60.76	≤-25.32	PASS
			1000~26500	-5.32	-46.02	≤-25.32	PASS
		2441	Reference	-3.87	-3.87	---	PASS
			30~1000	-3.87	-51.53	≤-23.87	PASS
			1000~26500	-3.87	-45.73	≤-23.87	PASS
		2480	Reference	-3.81	-3.81	---	PASS
			30~1000	-3.81	-61.7	≤-23.81	PASS
			1000~26500	-3.81	-45.34	≤-23.81	PASS
2DH5	Ant1	2402	Reference	-4.87	-4.87	---	PASS
			30~1000	-4.87	-60.54	≤-24.87	PASS
			1000~26500	-4.87	-46.09	≤-24.87	PASS
		2441	Reference	-4.50	-4.50	---	PASS
			30~1000	-4.50	-59.95	≤-24.5	PASS
			1000~26500	-4.50	-45.87	≤-24.5	PASS
		2480	Reference	-4.20	-4.20	---	PASS
			30~1000	-4.20	-60.33	≤-24.2	PASS
			1000~26500	-4.20	-46.04	≤-24.2	PASS
3DH5	Ant1	2402	Reference	-8.32	-8.32	---	PASS
			30~1000	-8.32	-54.44	≤-28.32	PASS
			1000~26500	-8.32	-45.67	≤-28.32	PASS
		2441	Reference	-9.69	-9.69	---	PASS
			30~1000	-9.69	-51.16	≤-29.69	PASS
			1000~26500	-9.69	-45.82	≤-29.69	PASS
		2480	Reference	-4.30	-4.30	---	PASS
			30~1000	-4.30	-50.84	≤-24.3	PASS
			1000~26500	-4.30	-45.32	≤-24.3	PASS

Test Graphs

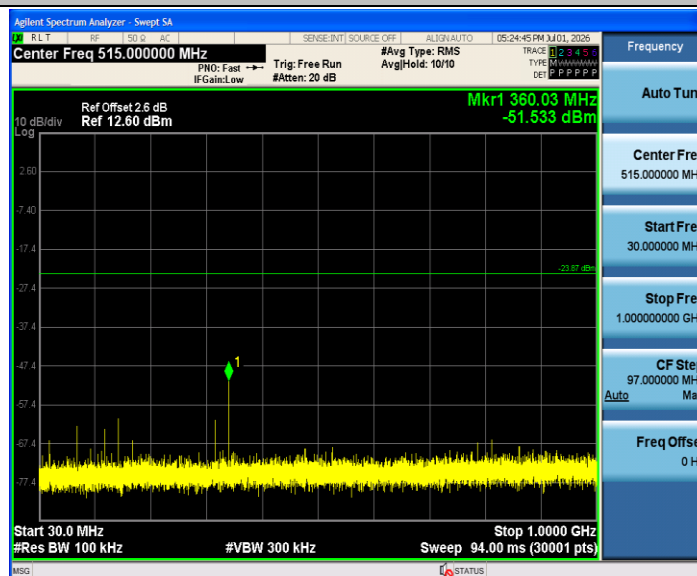




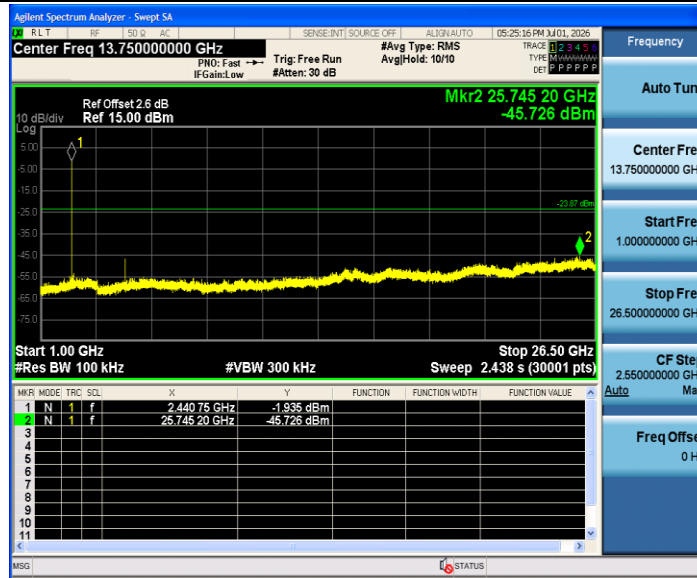
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



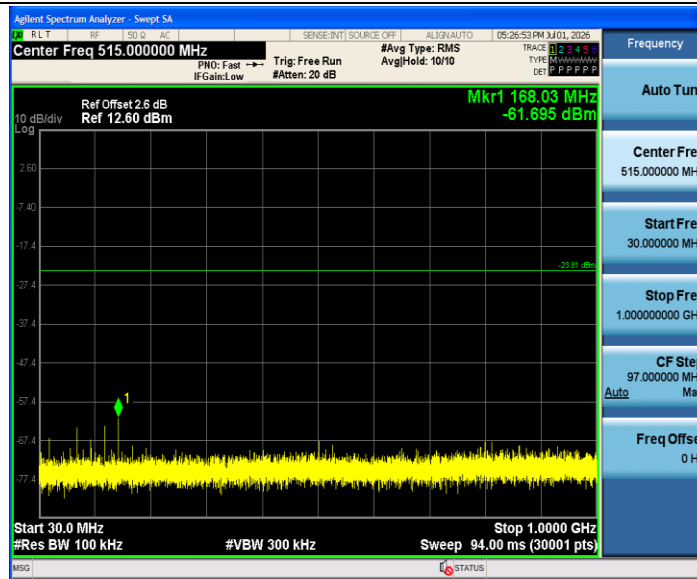
DH5_Ant1_2441_1000~26500



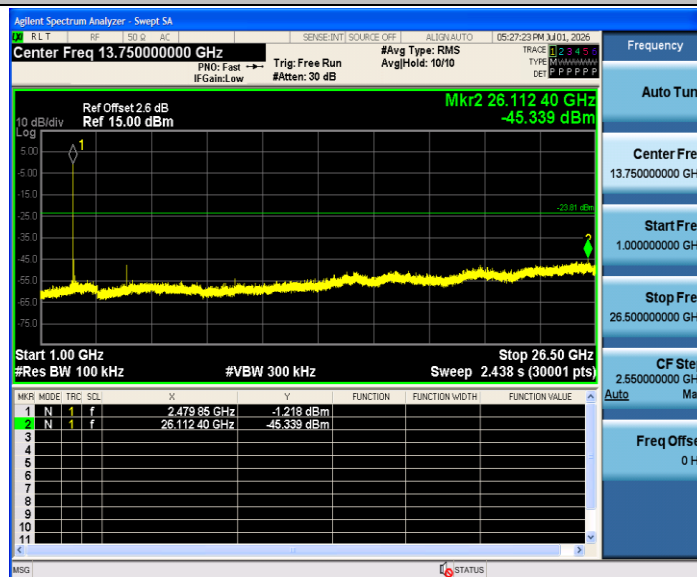
DH5_Ant1_2480_0~Reference



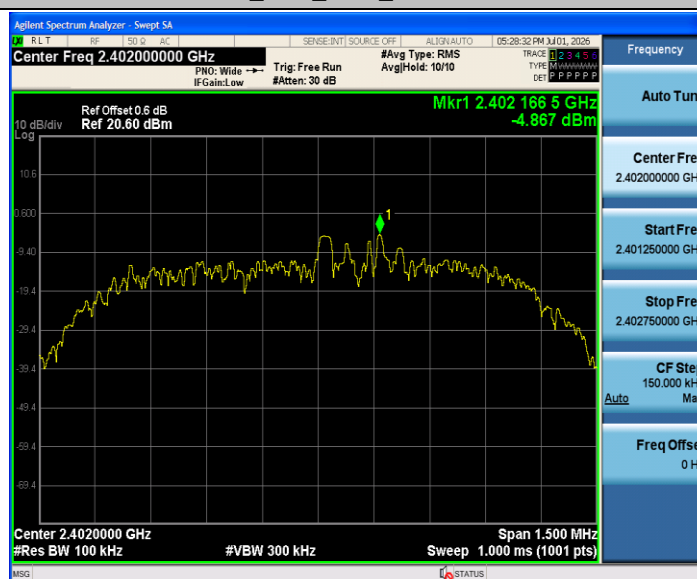
DH5_Ant1_2480_30~1000



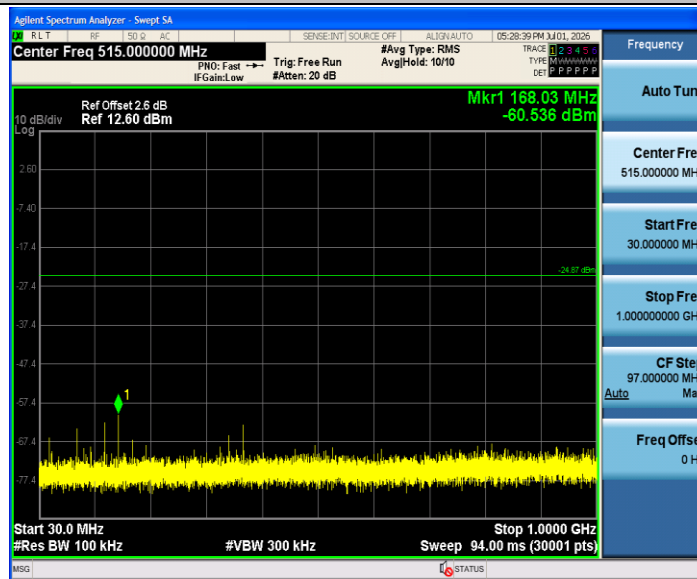
DH5_Ant1_2480_1000~26500



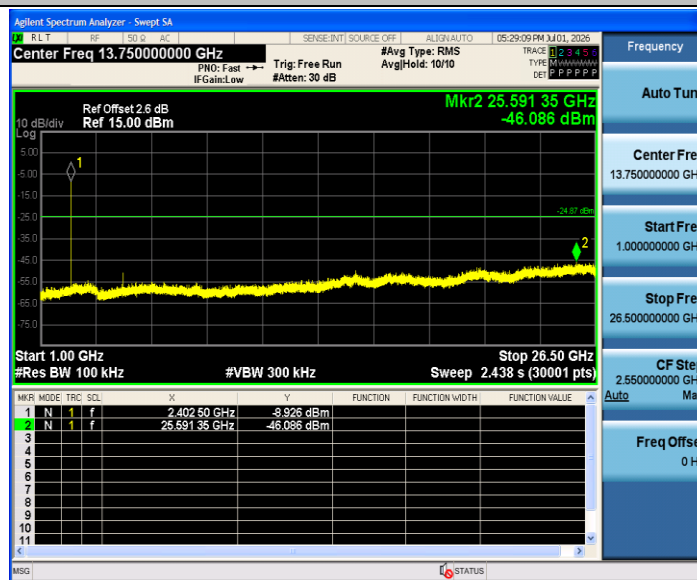
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference