

FCC Appendix RF Test Data for BT

FCC ID : 2AMVL-HS-999

Company : Dong Guan City Qi Xing Electronics Technology Co., LTD

EUT : Bluetooth glasses

Model Number : HS-999

Report No. : CTA26041501101

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	0.936	2401.553	2402.489	---	---
		2441	0.948	2440.553	2441.501	---	---
		2480	0.963	2479.544	2480.507	---	---
2DH5	Ant1	2402	1.320	2401.349	2402.669	---	---
		2441	1.347	2440.337	2441.684	---	---
		2480	1.332	2479.346	2480.678	---	---
3DH5	Ant1	2402	1.320	2401.355	2402.675	---	---
		2441	1.308	2440.364	2441.672	---	---
		2480	1.308	2479.361	2480.669	---	---

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

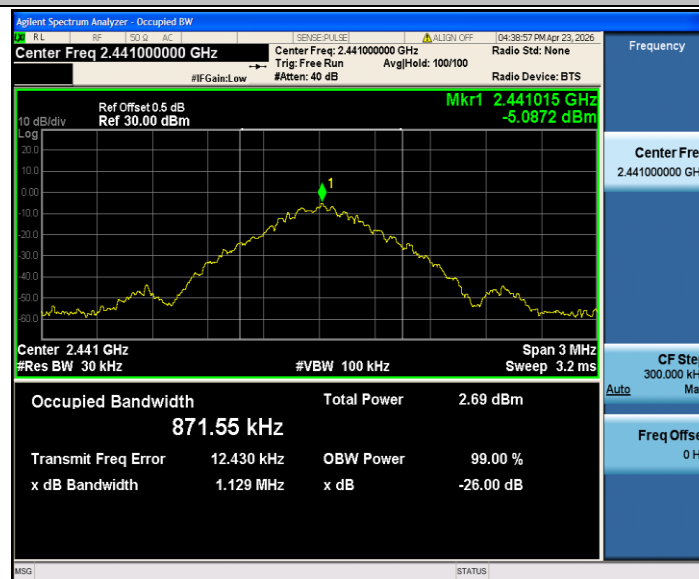
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87592	2401.5765	2402.4524	---	---
		2441	0.87155	2440.5767	2441.4482	---	---
		2480	0.86375	2479.5797	2480.4434	---	---
2DH5	Ant1	2402	1.1780	2401.4220	2402.6000	---	---
		2441	1.1839	2440.4194	2441.6033	---	---
		2480	1.1848	2479.4208	2480.6056	---	---
3DH5	Ant1	2402	1.1961	2401.4153	2402.6114	---	---
		2441	1.1855	2440.4243	2441.6098	---	---
		2480	1.1774	2479.4245	2480.6019	---	---

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

Left:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.18	≤20.97	PASS
		2441	-3.43	≤20.97	PASS
		2480	-3.43	≤20.97	PASS
2DH5	Ant1	2402	-3.87	≤20.97	PASS
		2441	-4.16	≤20.97	PASS
		2480	-4.23	≤20.97	PASS
3DH5	Ant1	2402	-3.66	≤20.97	PASS
		2441	-3.91	≤20.97	PASS
		2480	-3.96	≤20.97	PASS

Right:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.24	≤20.97	PASS
		2441	-3.47	≤20.97	PASS
		2480	-3.24	≤20.97	PASS
2DH5	Ant1	2402	-3.64	≤20.97	PASS
		2441	-4.53	≤20.97	PASS
		2480	-4.09	≤20.97	PASS
3DH5	Ant1	2402	-3.19	≤20.97	PASS
		2441	-3.46	≤20.97	PASS
		2480	-3.58	≤20.97	PASS

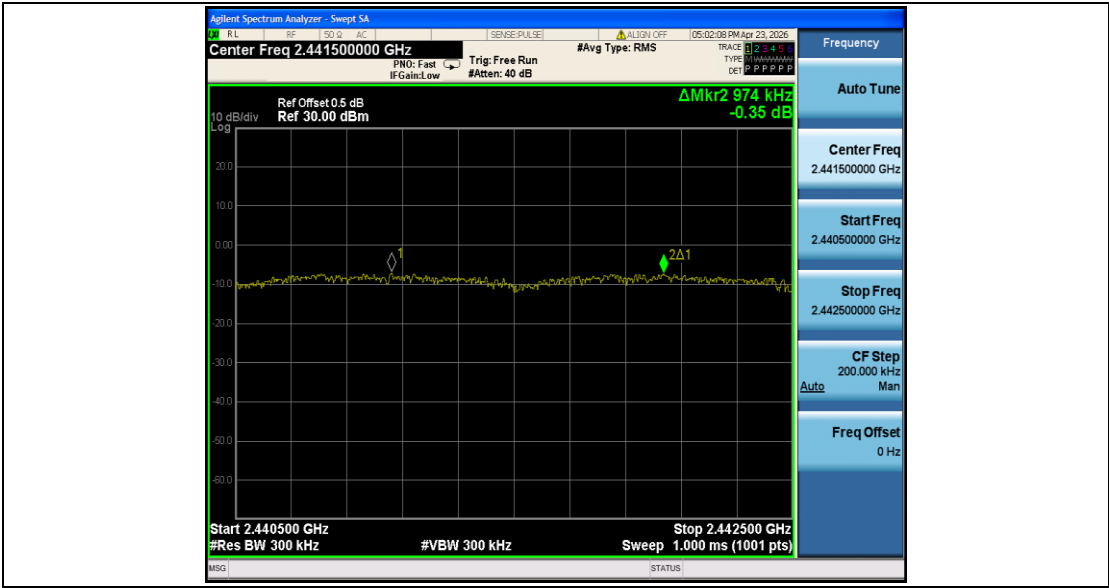
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.97	≥ 0.963	PASS
2DH5	Ant1	Hop	1.146	≥ 0.898	PASS
3DH5	Ant1	Hop	0.974	≥ 0.880	PASS

Test Graphs



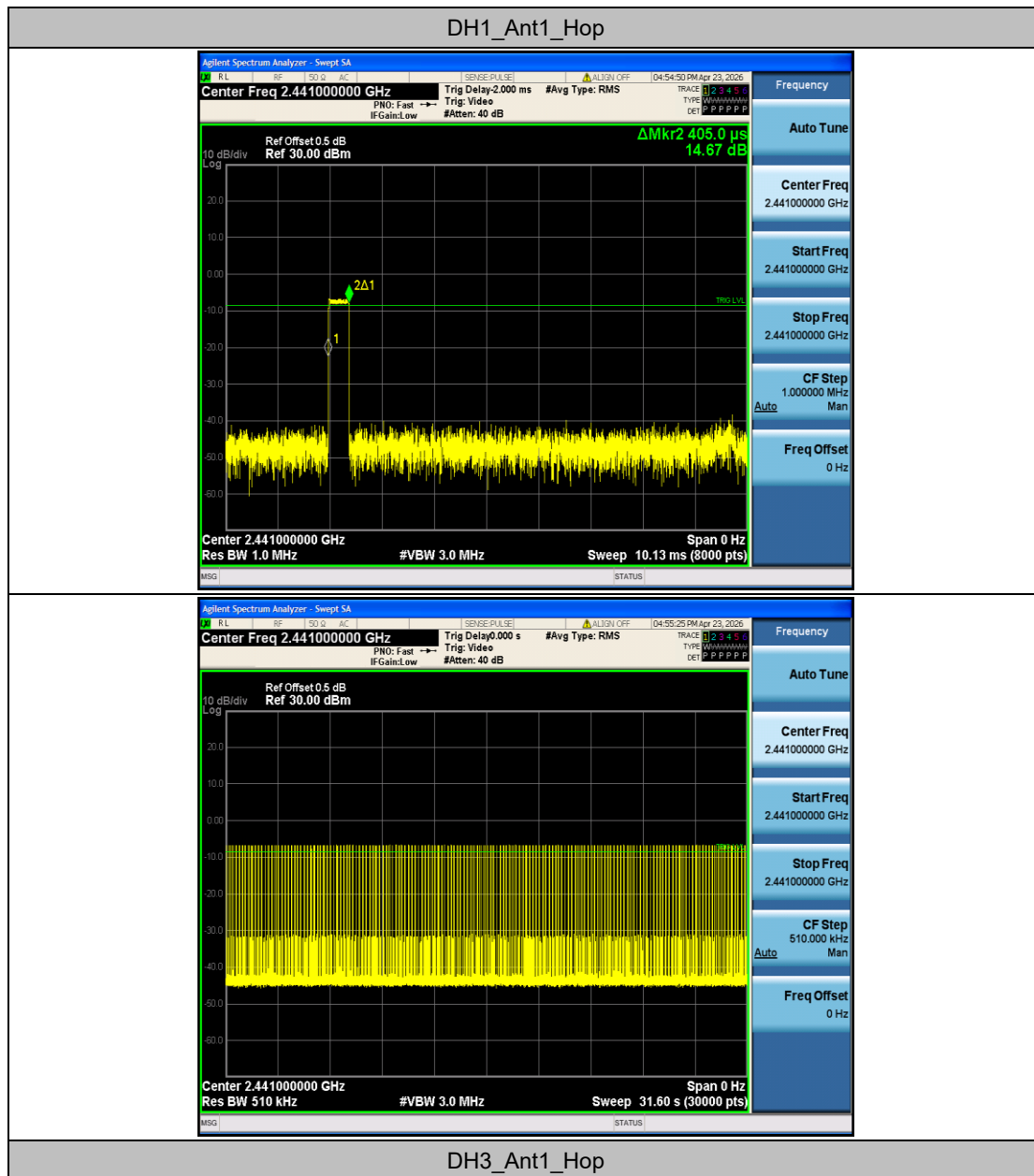


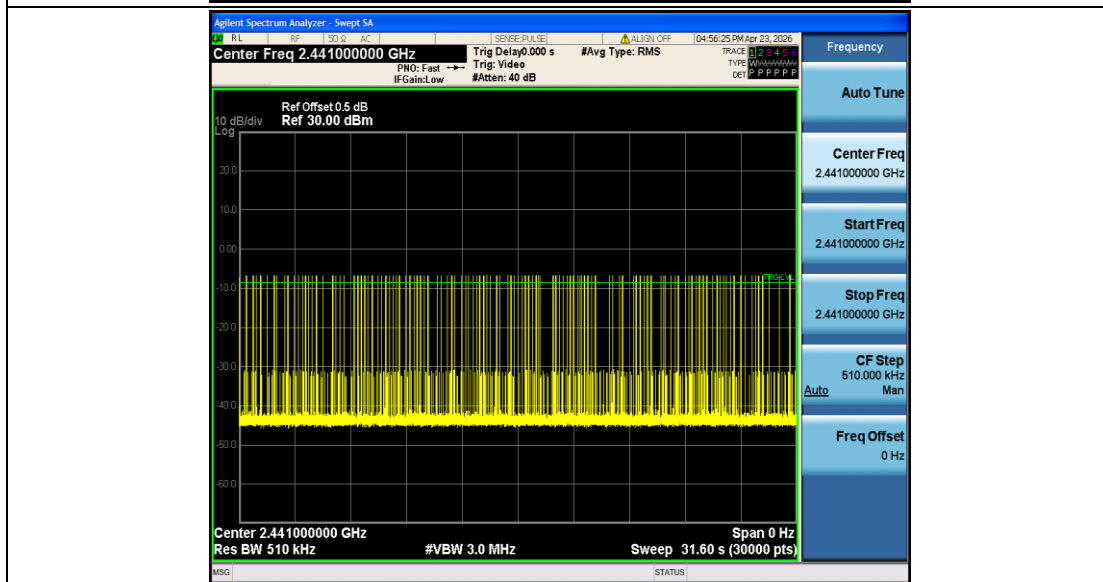
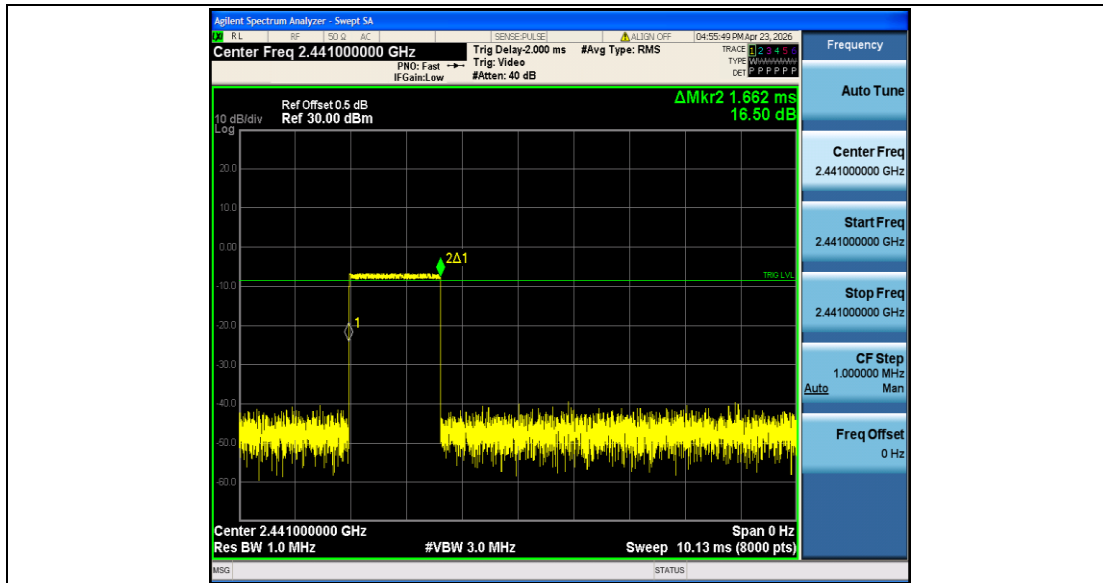
Appendix E: Time of occupancy

Test Result

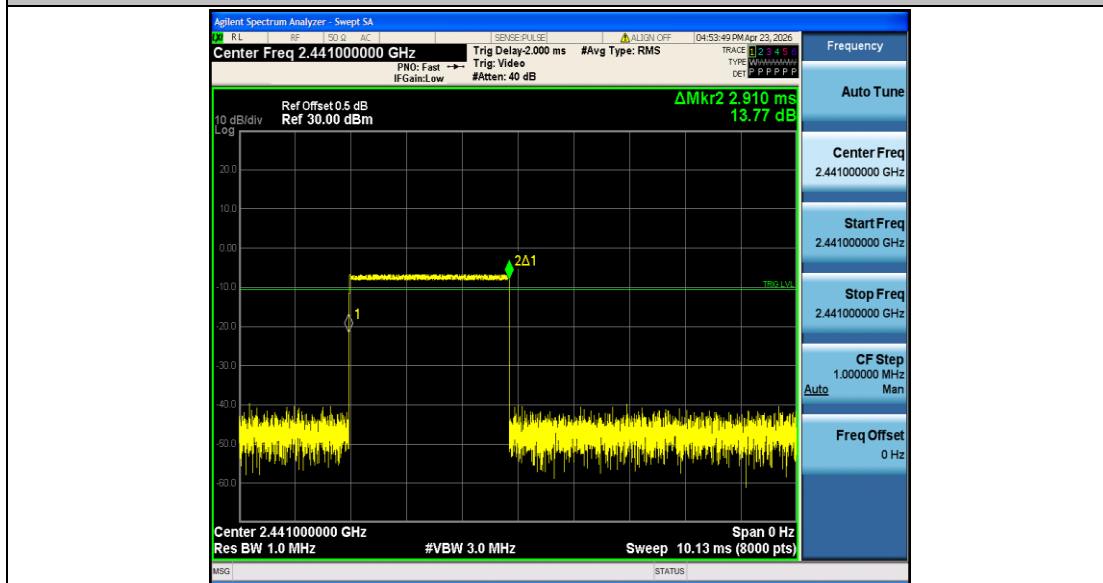
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	318	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	167	0.278	≤0.4	PASS
DH5	Ant1	Hop	2.910	106	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.415	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.668	158	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.915	105	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.415	315	0.131	≤0.4	PASS
3DH3	Ant1	Hop	1.666	160	0.267	≤0.4	PASS
3DH5	Ant1	Hop	2.916	98	0.286	≤0.4	PASS

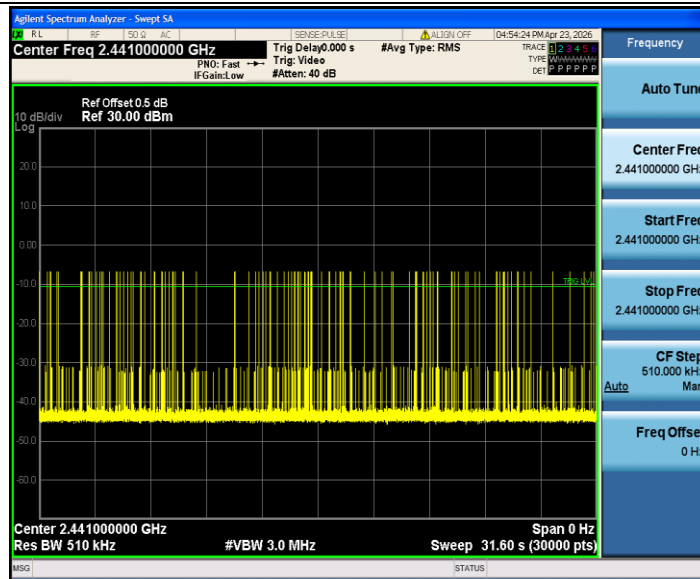
Test Graphs



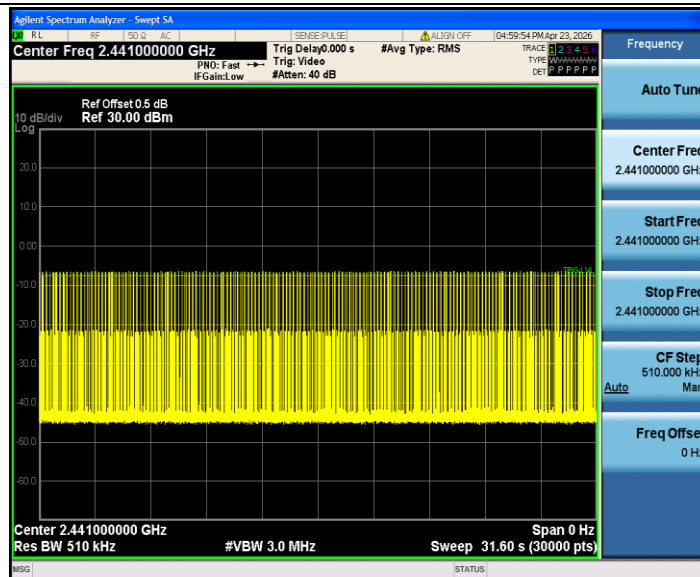
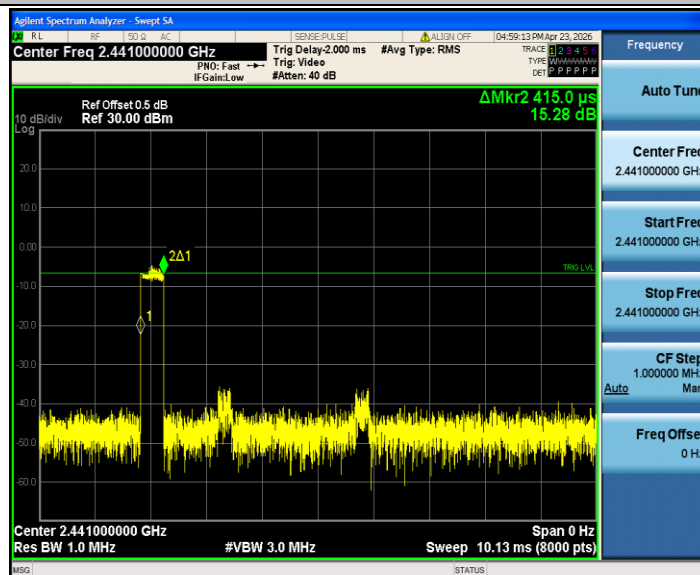


DH5_Ant1_Hop

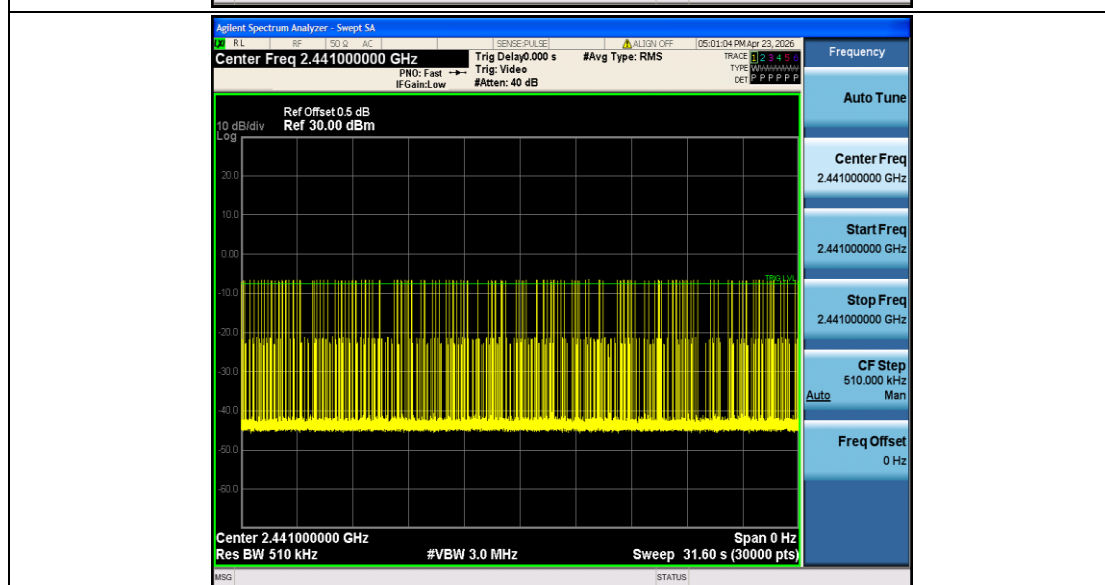
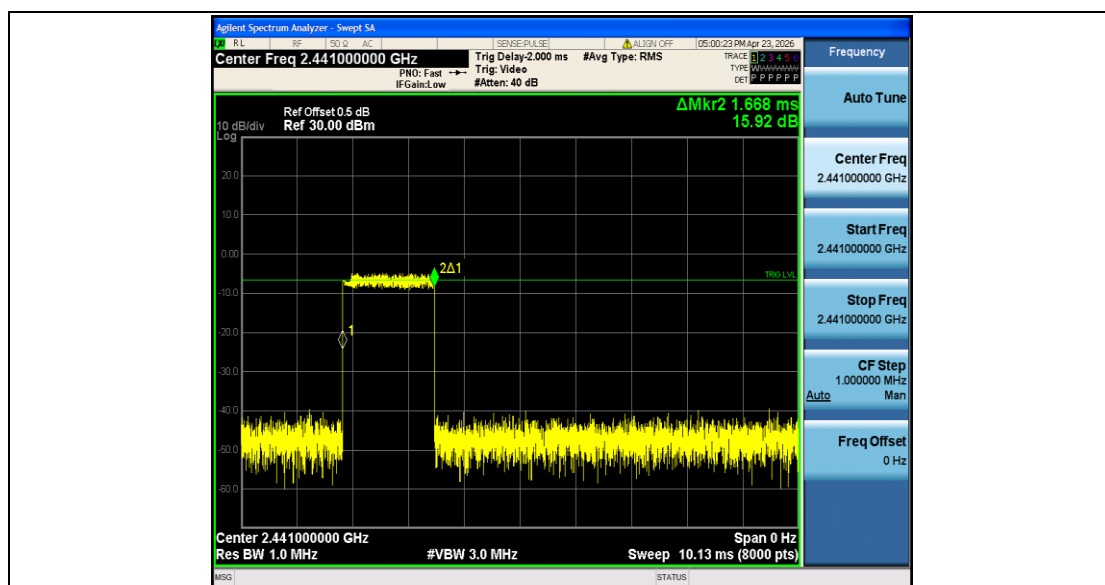




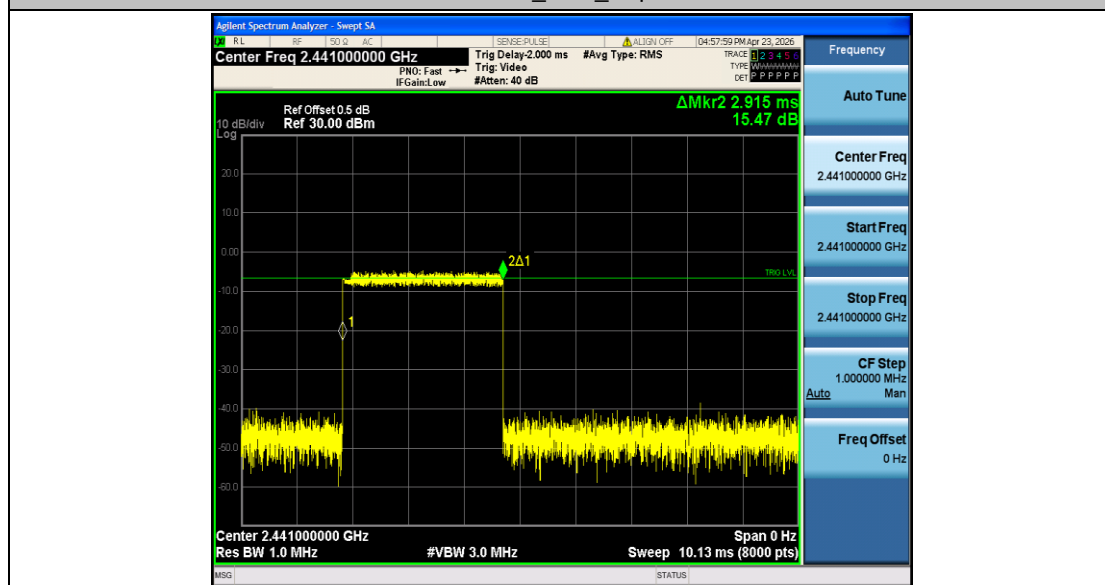
2DH1_Ant1_Hop

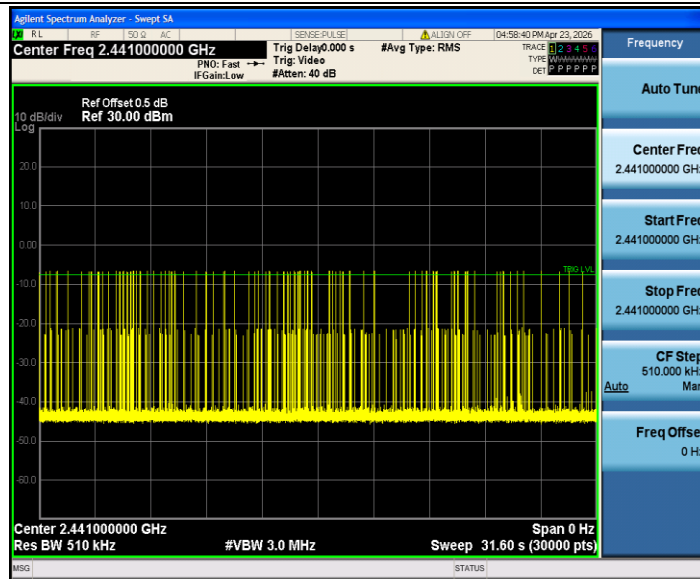


2DH3_Ant1_Hop

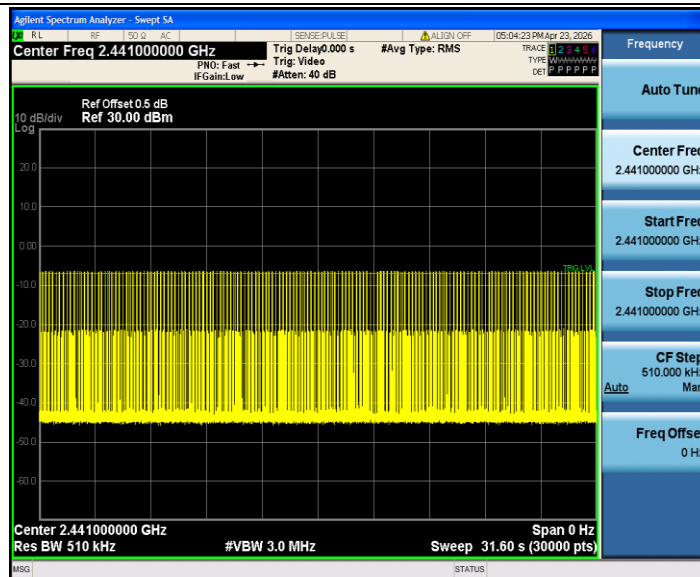
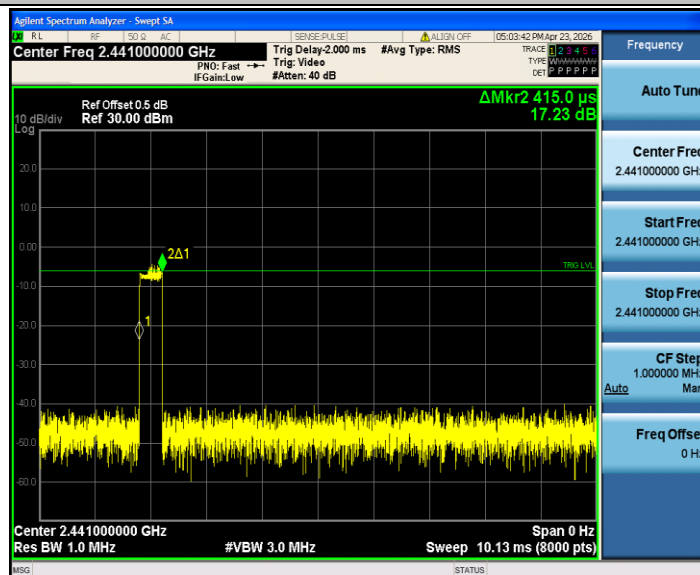


2DH5_Ant1_Hop

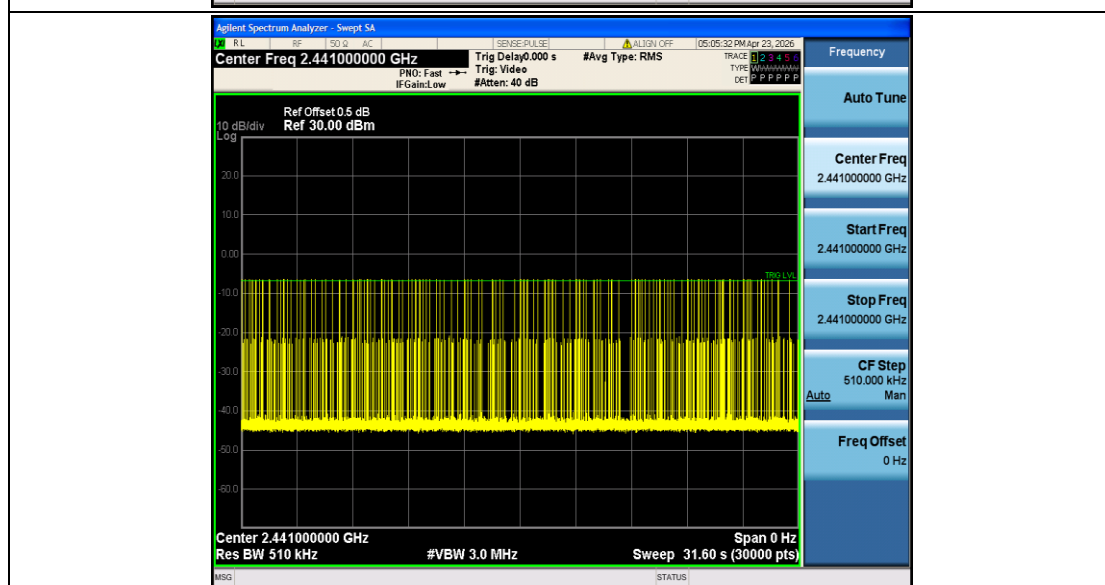
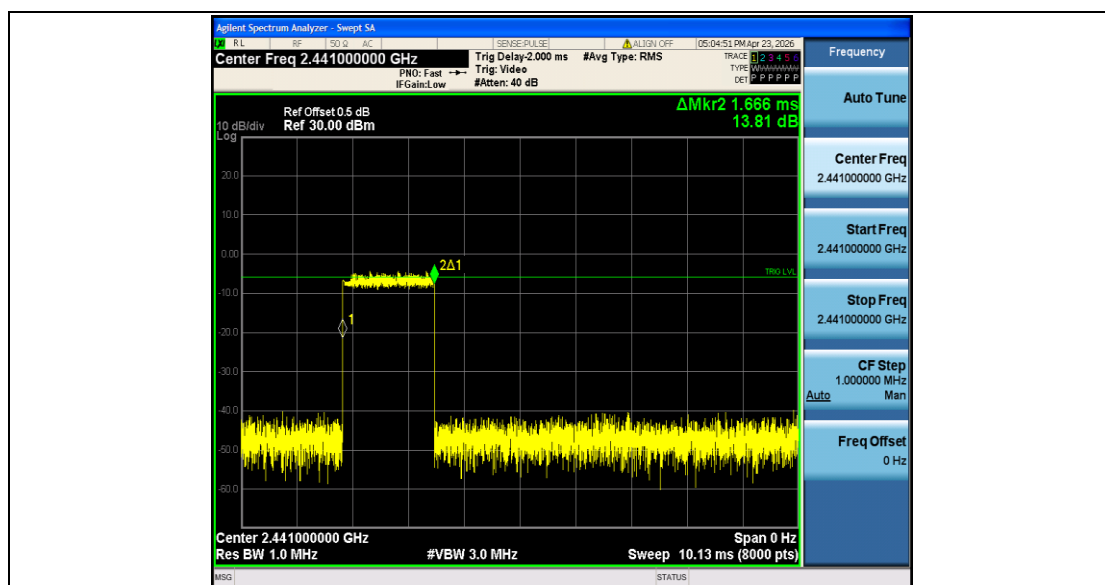




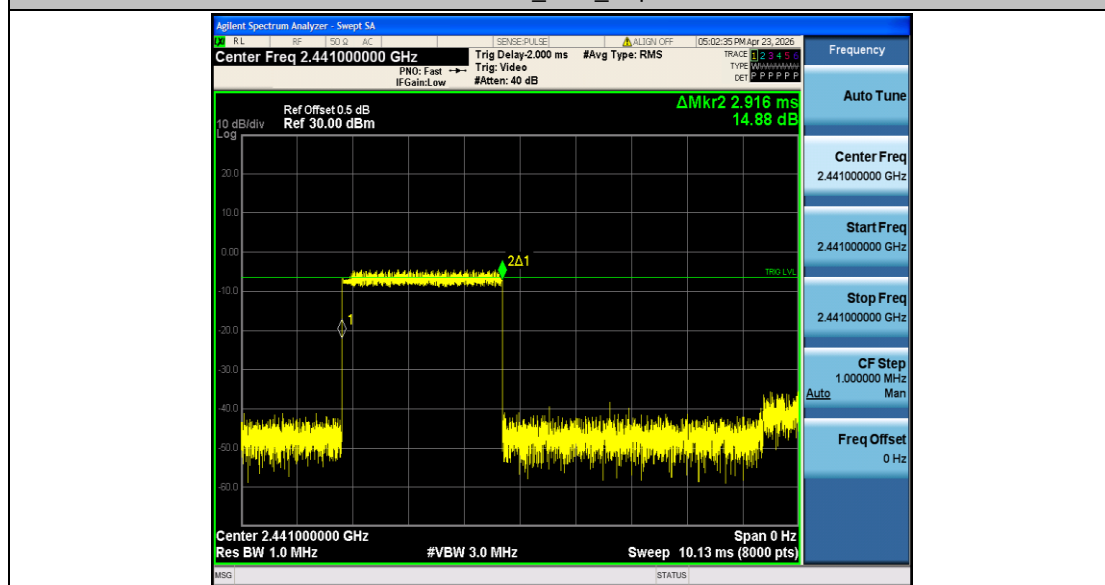
3DH1_Ant1_Hop

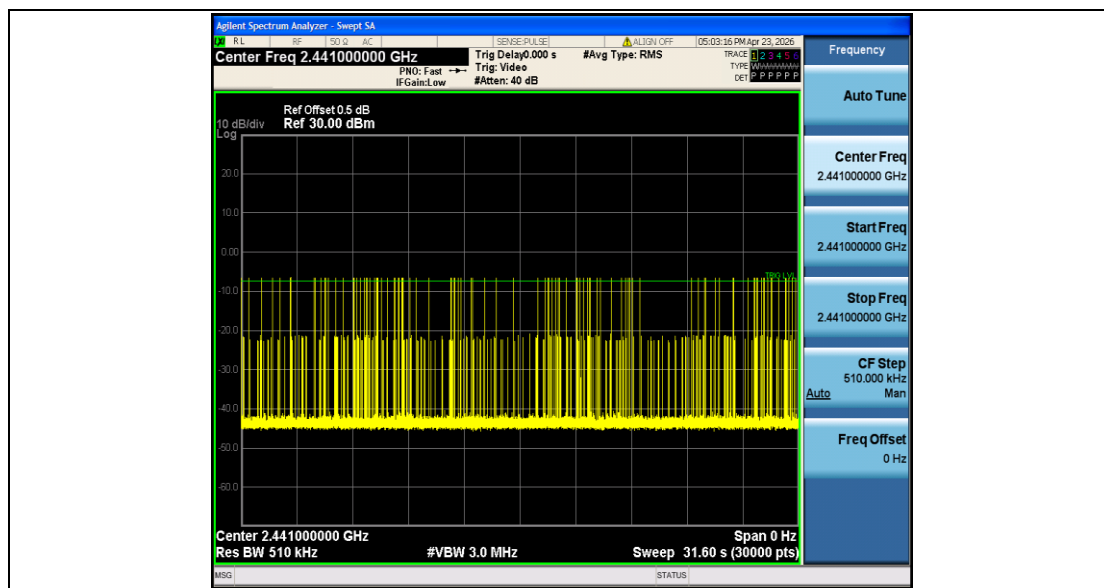


3DH3_Ant1_Hop



3DH5_Ant1_Hop



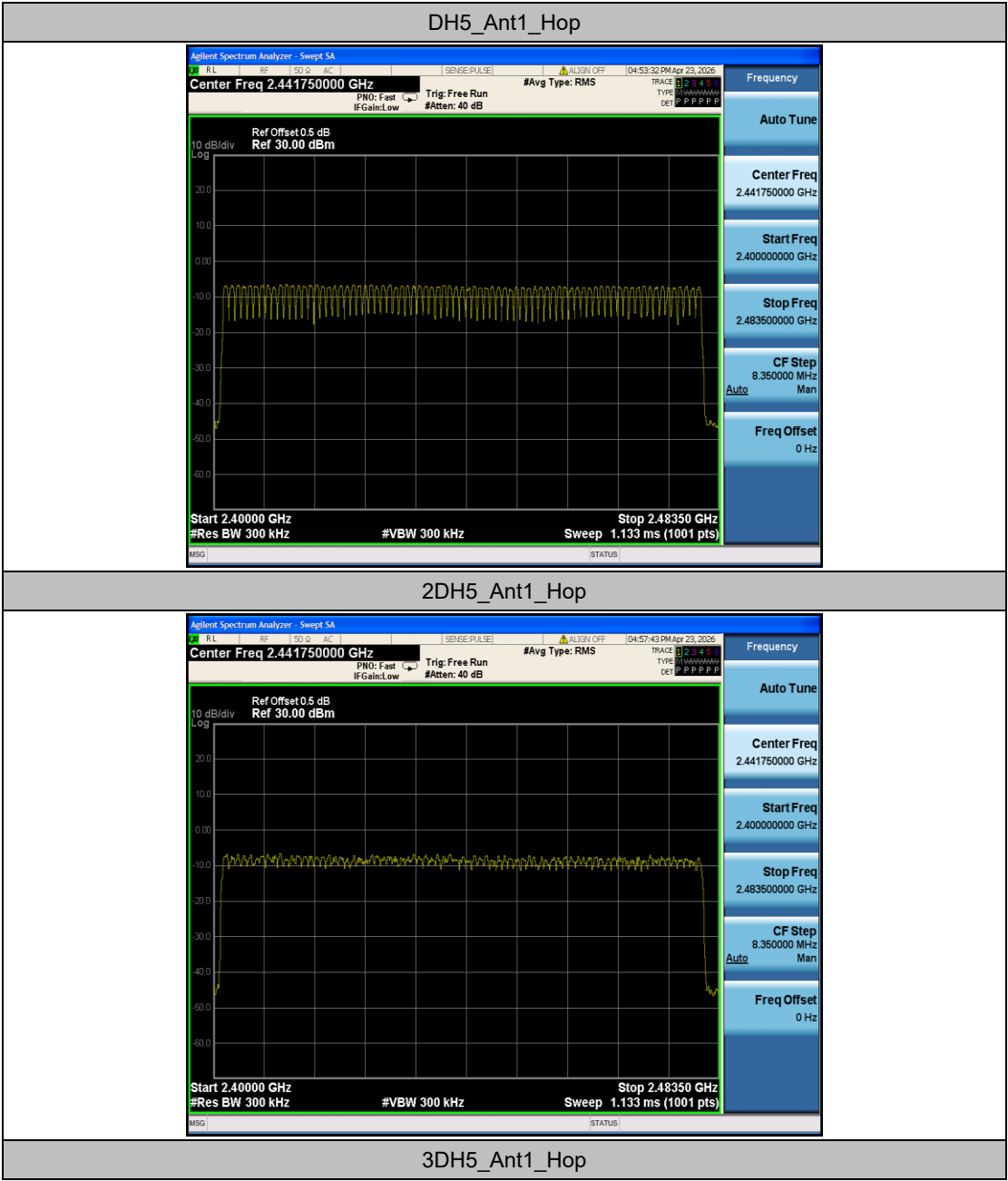


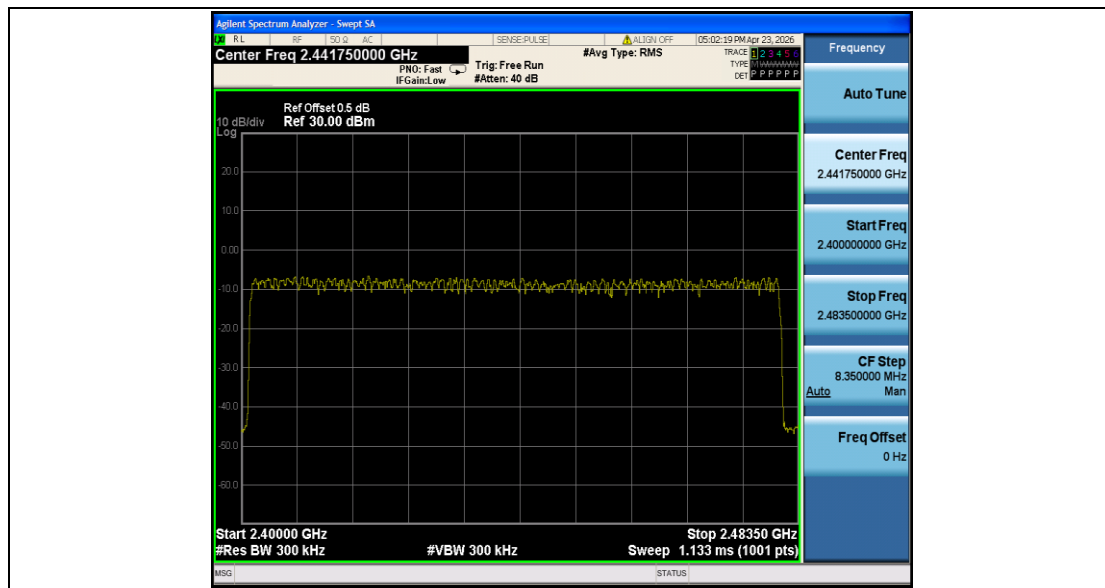
Appendix F: Number of hopping channels

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



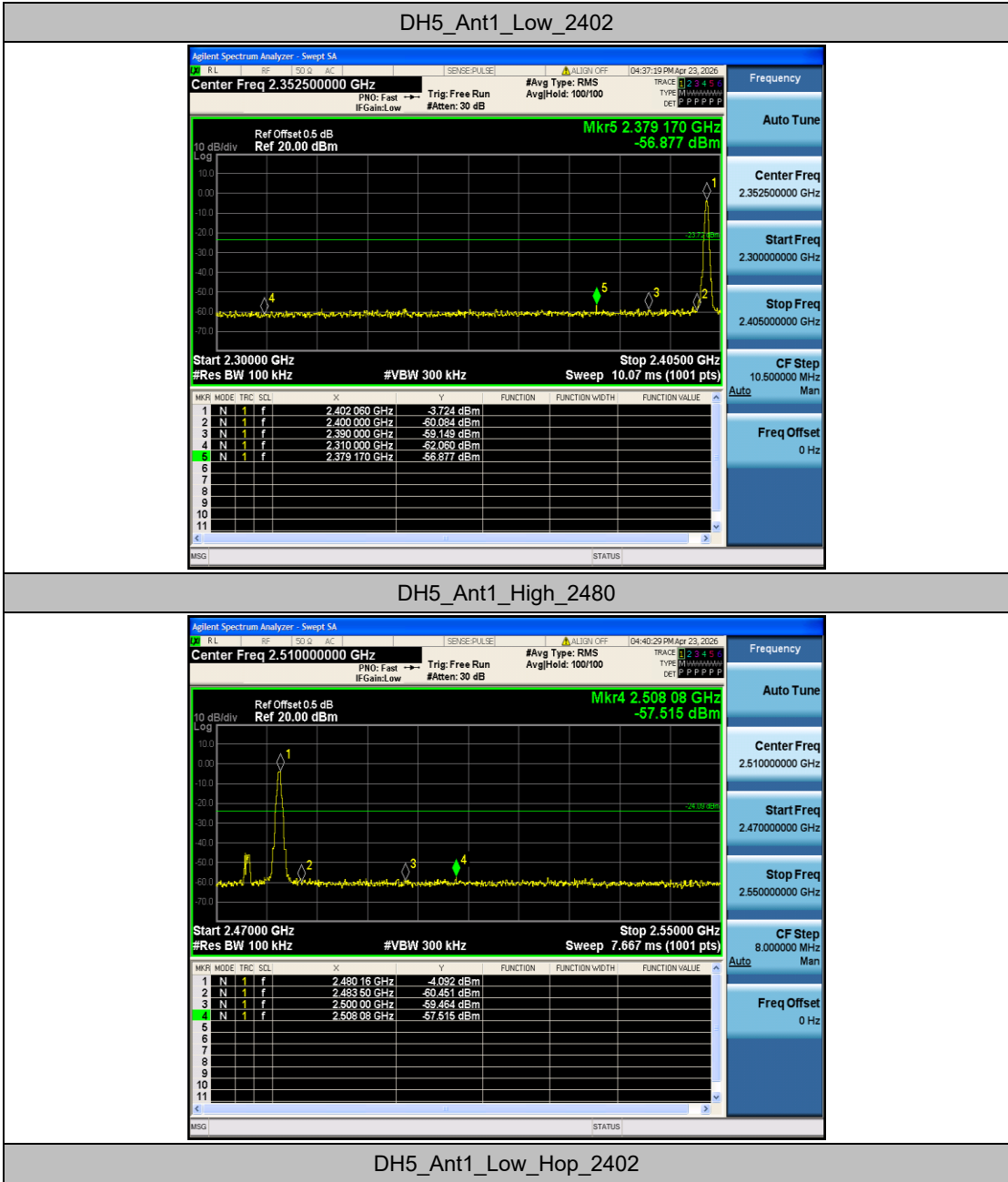


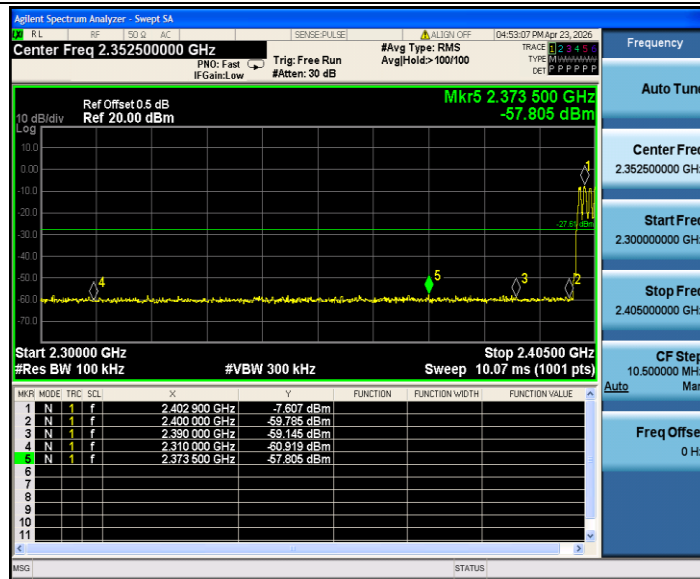
Appendix G: Band edge measurements

Test Result

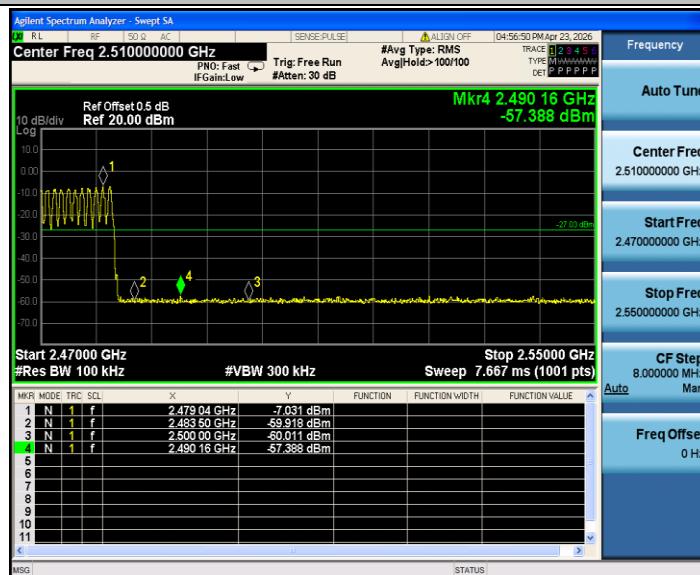
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.72	-56.88	≤-23.72	PASS
		High	2480	-4.09	-57.52	≤-24.09	PASS
		Low	Hop_2402	-7.61	-57.81	≤-27.61	PASS
		High	Hop_2480	-7.03	-57.39	≤-27.03	PASS
2DH5	Ant1	Low	2402	-6.55	-57.73	≤-26.55	PASS
		High	2480	-8.12	-57.32	≤-28.12	PASS
		Low	Hop_2402	-7.30	-57.02	≤-27.3	PASS
		High	Hop_2480	-7.80	-56.81	≤-27.8	PASS
3DH5	Ant1	Low	2402	-9.11	-57.76	≤-29.11	PASS
		High	2480	-7.71	-56.68	≤-27.71	PASS
		Low	Hop_2402	-8.68	-57.91	≤-28.68	PASS
		High	Hop_2480	-7.64	-56.63	≤-27.64	PASS

Test Graphs

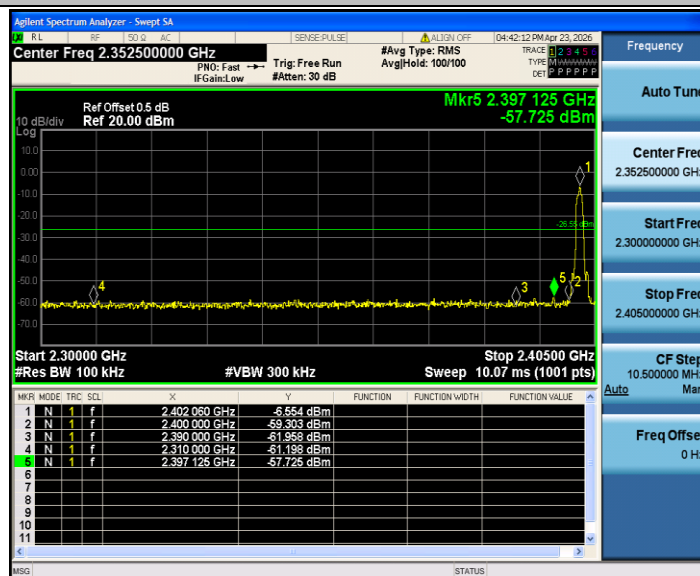




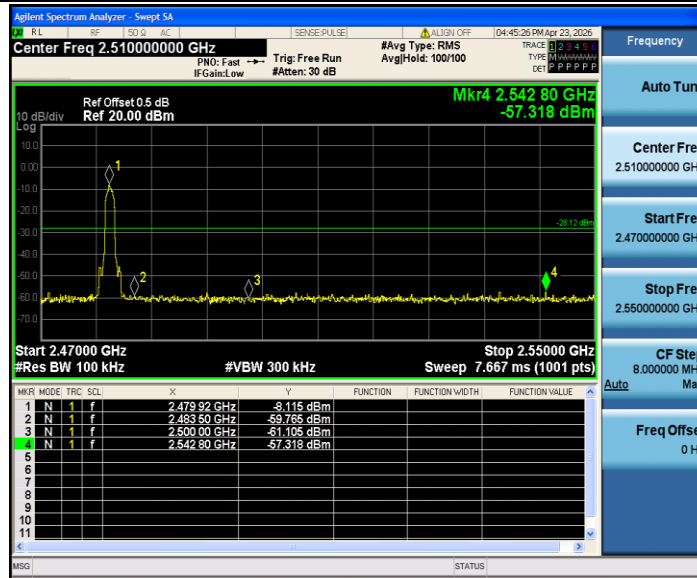
DH5_Ant1_High_Hop_2480



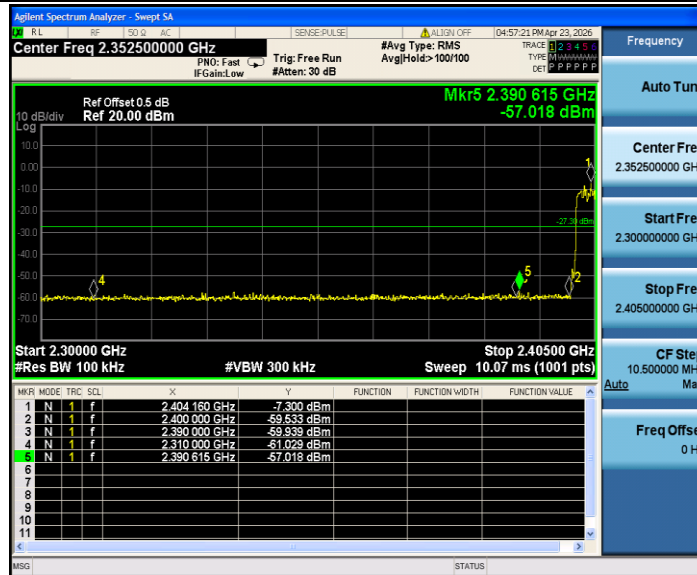
2DH5_Ant1_Low_2402



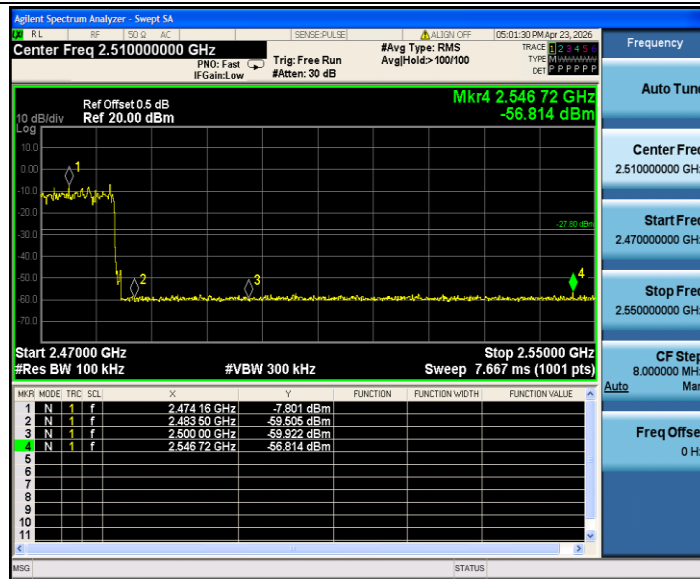
2DH5_Ant1_High_2480



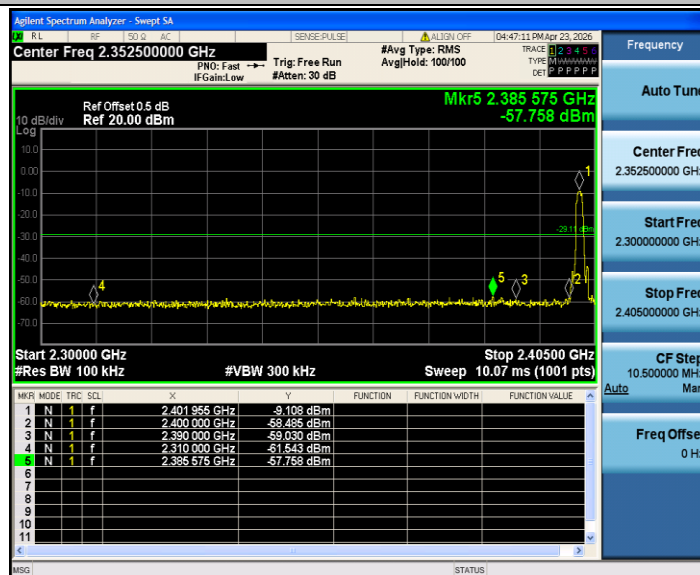
2DH5_Ant1_Low_Hop_2402



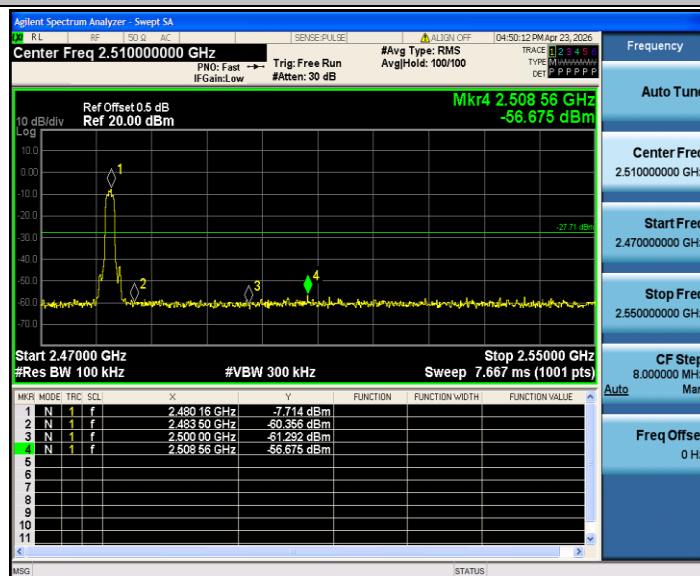
2DH5_Ant1_High_Hop_2480



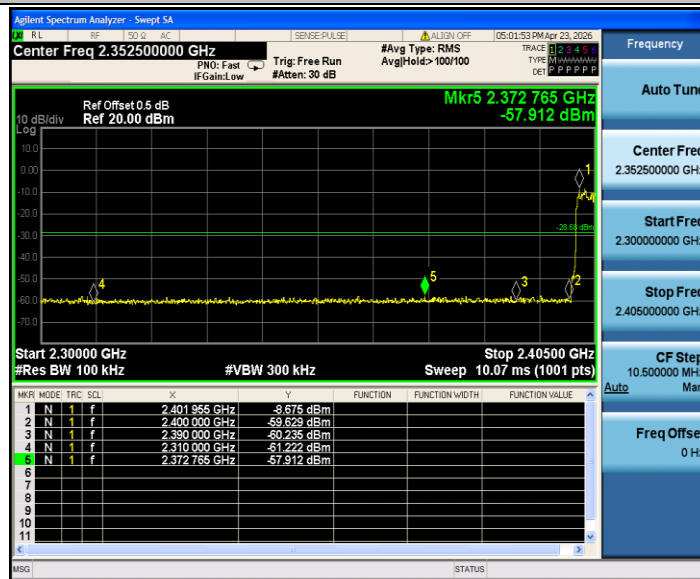
3DH5_Ant1_Low_2402



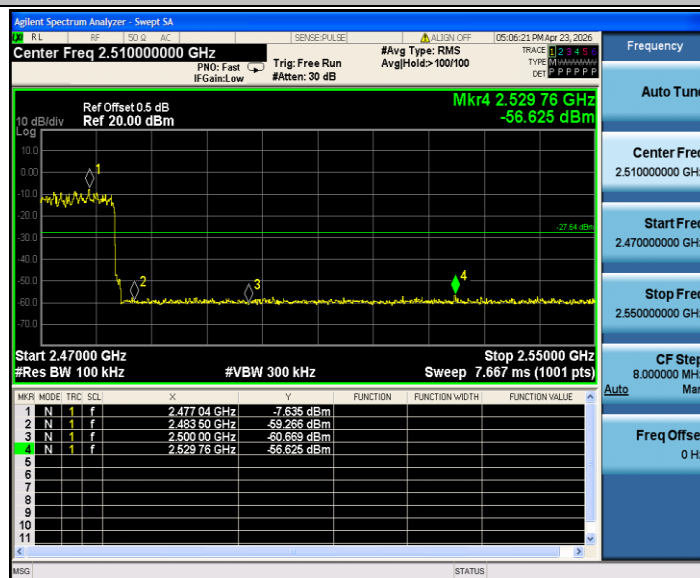
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

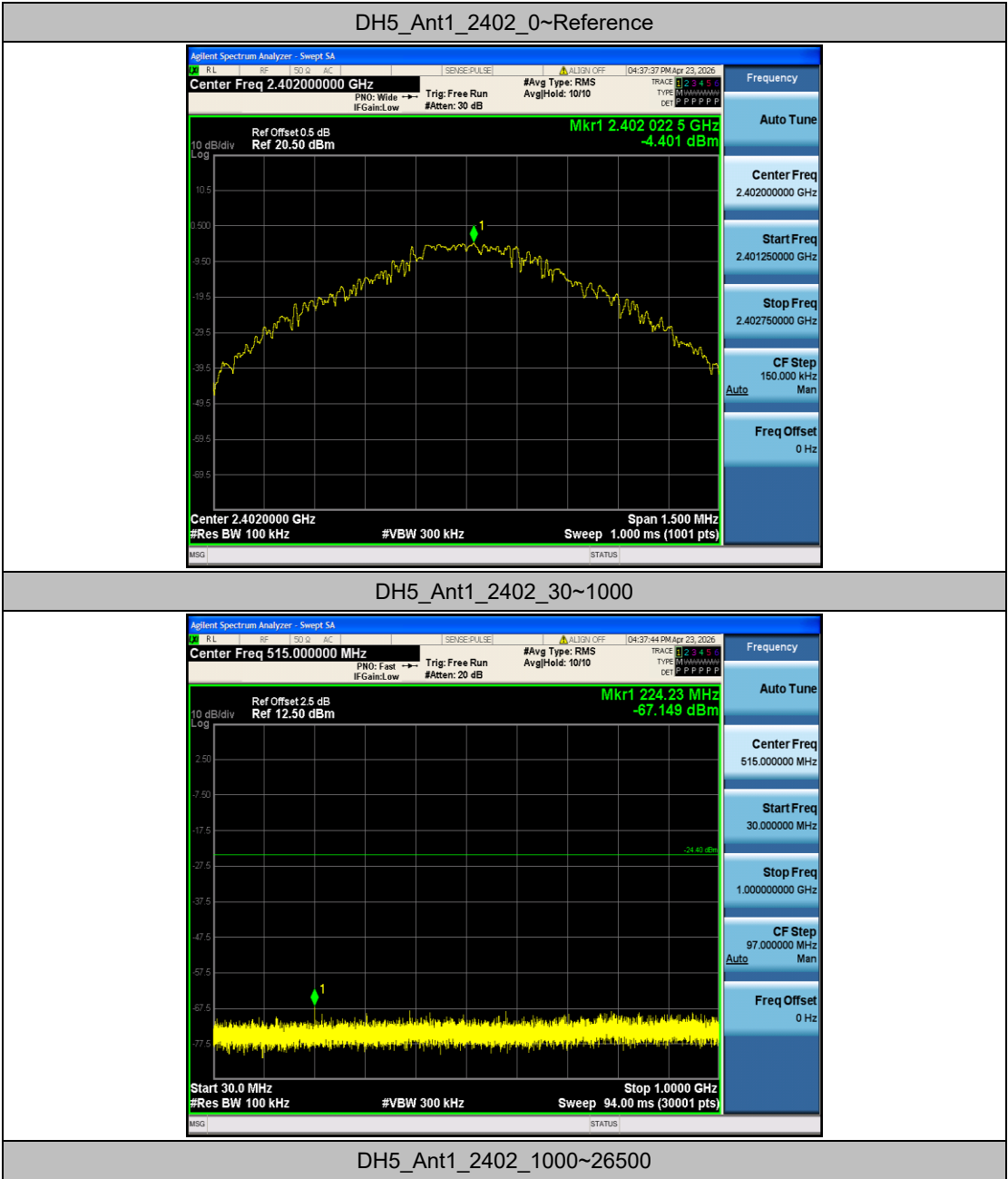


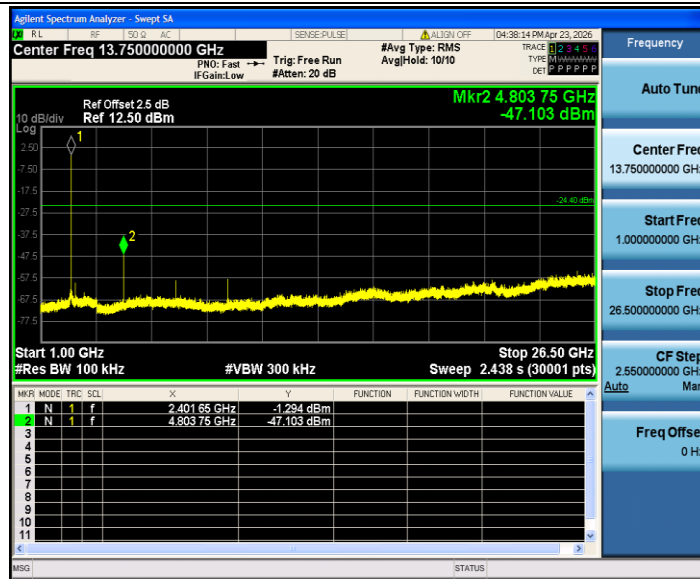
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.40	-4.40	---	PASS
			30~1000	-4.40	-67.15	≤-24.4	PASS
			1000~26500	-4.40	-47.1	≤-24.4	PASS
		2441	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-68.16	≤-24.61	PASS
			1000~26500	-4.61	-48.59	≤-24.61	PASS
		2480	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-67.56	≤-24.61	PASS
			1000~26500	-4.61	-47.27	≤-24.61	PASS
2DH5	Ant1	2402	Reference	-6.94	-6.94	---	PASS
			30~1000	-6.94	-68.13	≤-26.94	PASS
			1000~26500	-6.94	-53.66	≤-26.94	PASS
		2441	Reference	-8.99	-8.99	---	PASS
			30~1000	-8.99	-67.73	≤-28.99	PASS
			1000~26500	-8.99	-54.83	≤-28.99	PASS
		2480	Reference	-9.35	-9.35	---	PASS
			30~1000	-9.35	-68.5	≤-29.35	PASS
			1000~26500	-9.35	-54.36	≤-29.35	PASS
3DH5	Ant1	2402	Reference	-8.17	-8.17	---	PASS
			30~1000	-8.17	-67.87	≤-28.17	PASS
			1000~26500	-8.17	-54.89	≤-28.17	PASS
		2441	Reference	-6.89	-6.89	---	PASS
			30~1000	-6.89	-67.8	≤-26.89	PASS
			1000~26500	-6.89	-55.11	≤-26.89	PASS
		2480	Reference	-10.12	-10.12	---	PASS
			30~1000	-10.12	-68.09	≤-30.12	PASS
			1000~26500	-10.12	-53.05	≤-30.12	PASS

Test Graphs

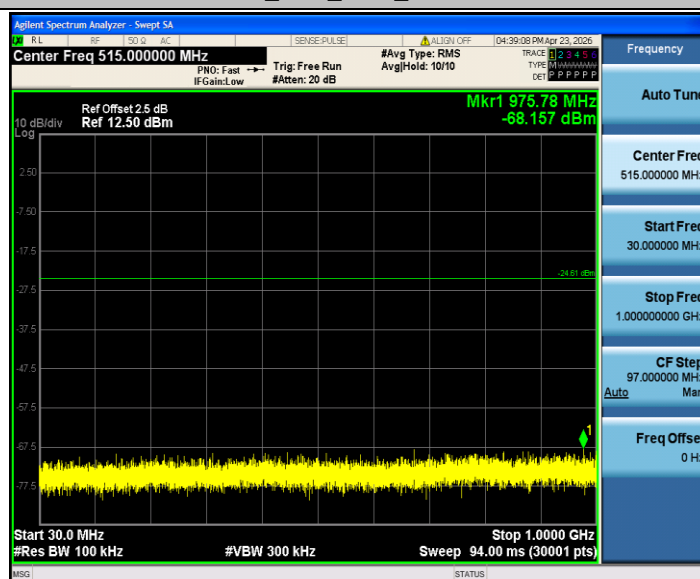




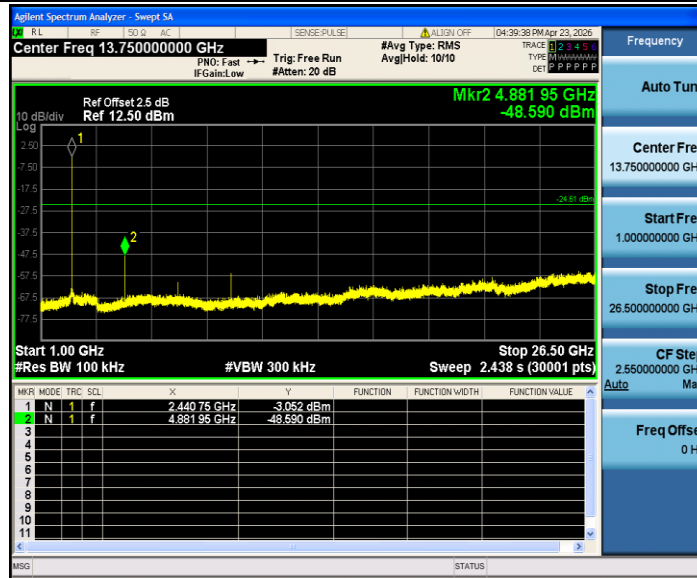
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



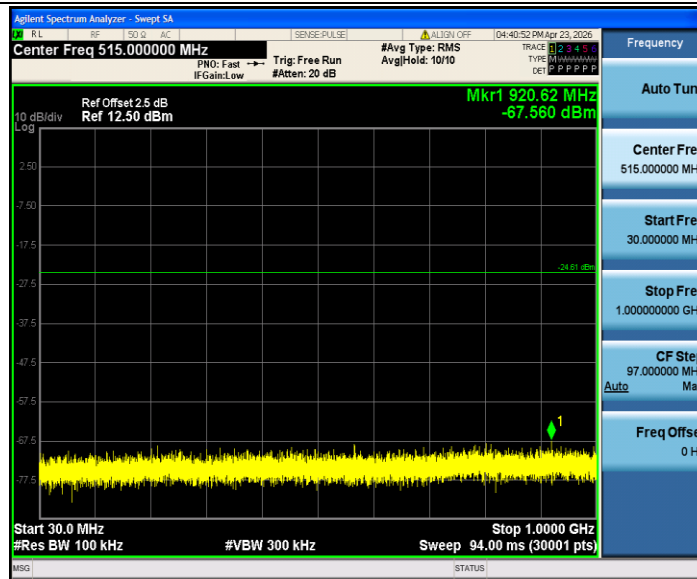
DH5_Ant1_2441_1000~26500



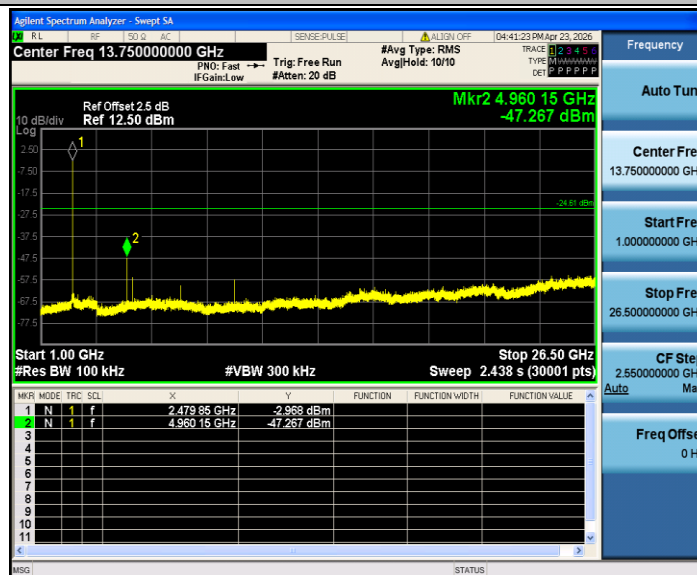
DH5_Ant1_2480_0~Reference



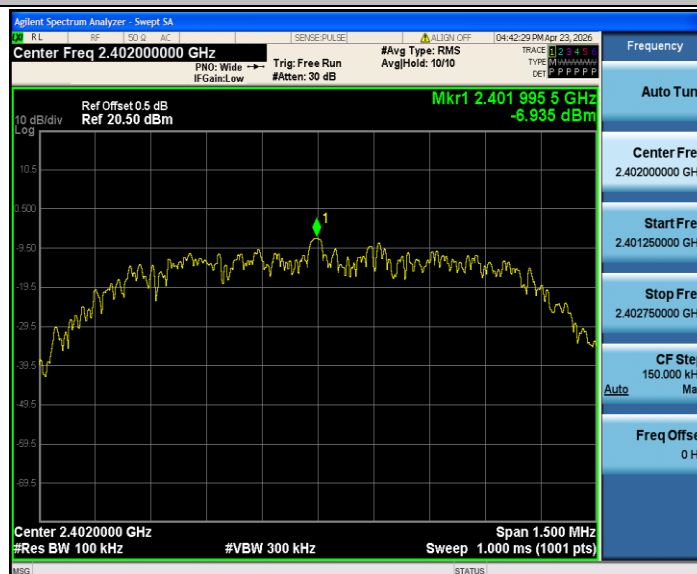
DH5_Ant1_2480_30~1000



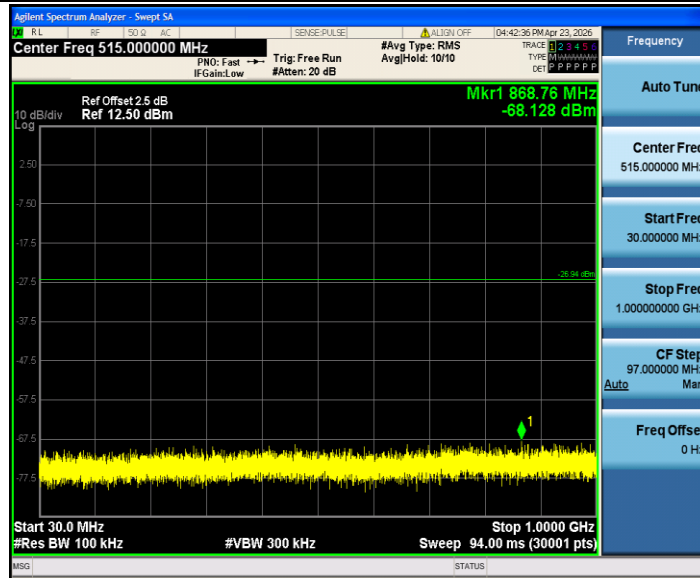
DH5_Ant1_2480_1000~26500



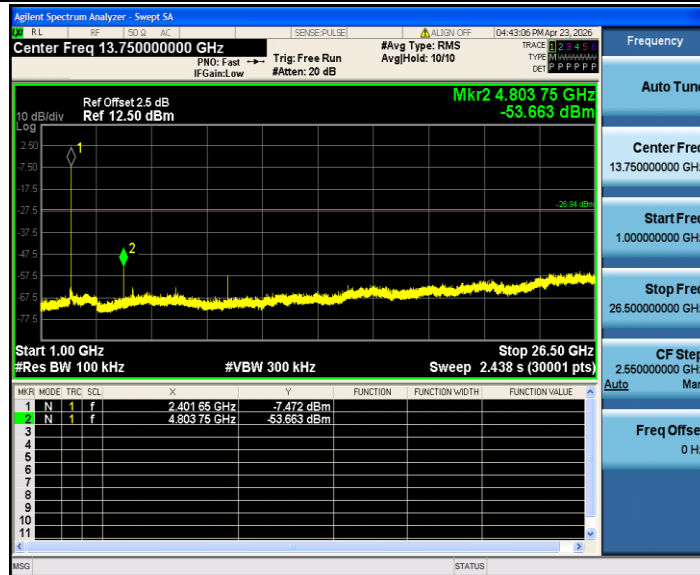
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference