

FCC Appendix RF Test Data for BT

FCC ID : 2ARKF-R-02

Company : Shenzhen Innotrik Technology Co., Ltd

EUT : Wearable Bluetooth Headphones

Model Number : R-02

Report No. : CTA26081800801

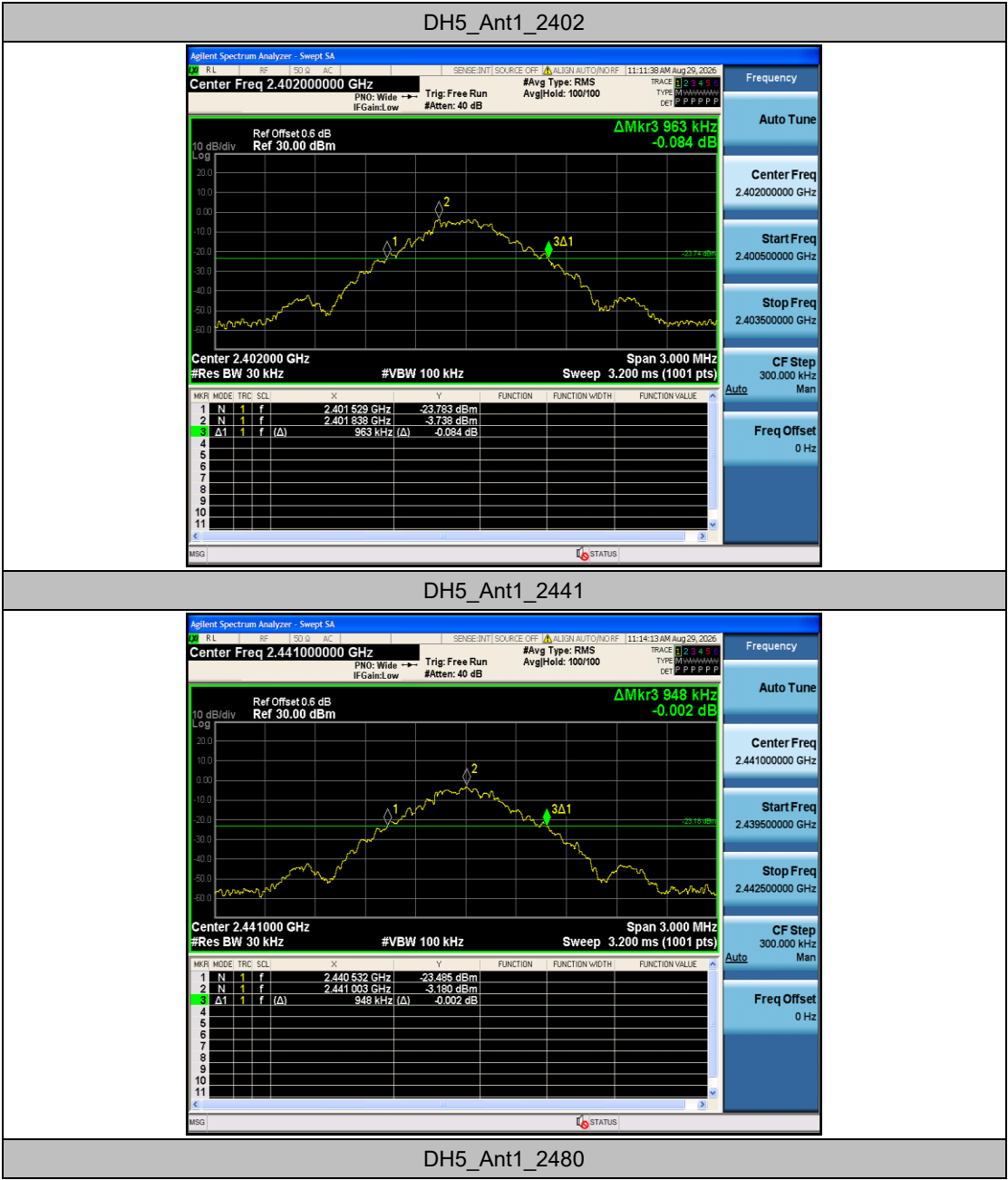
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.529	2402.492	---	---
		2441	0.948	2440.532	2441.480	---	---
		2480	0.948	2479.532	2480.480	---	---
2DH5	Ant1	2402	1.332	2401.328	2402.660	---	---
		2441	1.341	2440.322	2441.663	---	---
		2480	1.290	2479.361	2480.651	---	---
3DH5	Ant1	2402	1.317	2401.343	2402.660	---	---
		2441	1.335	2440.331	2441.666	---	---
		2480	1.305	2479.346	2480.651	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

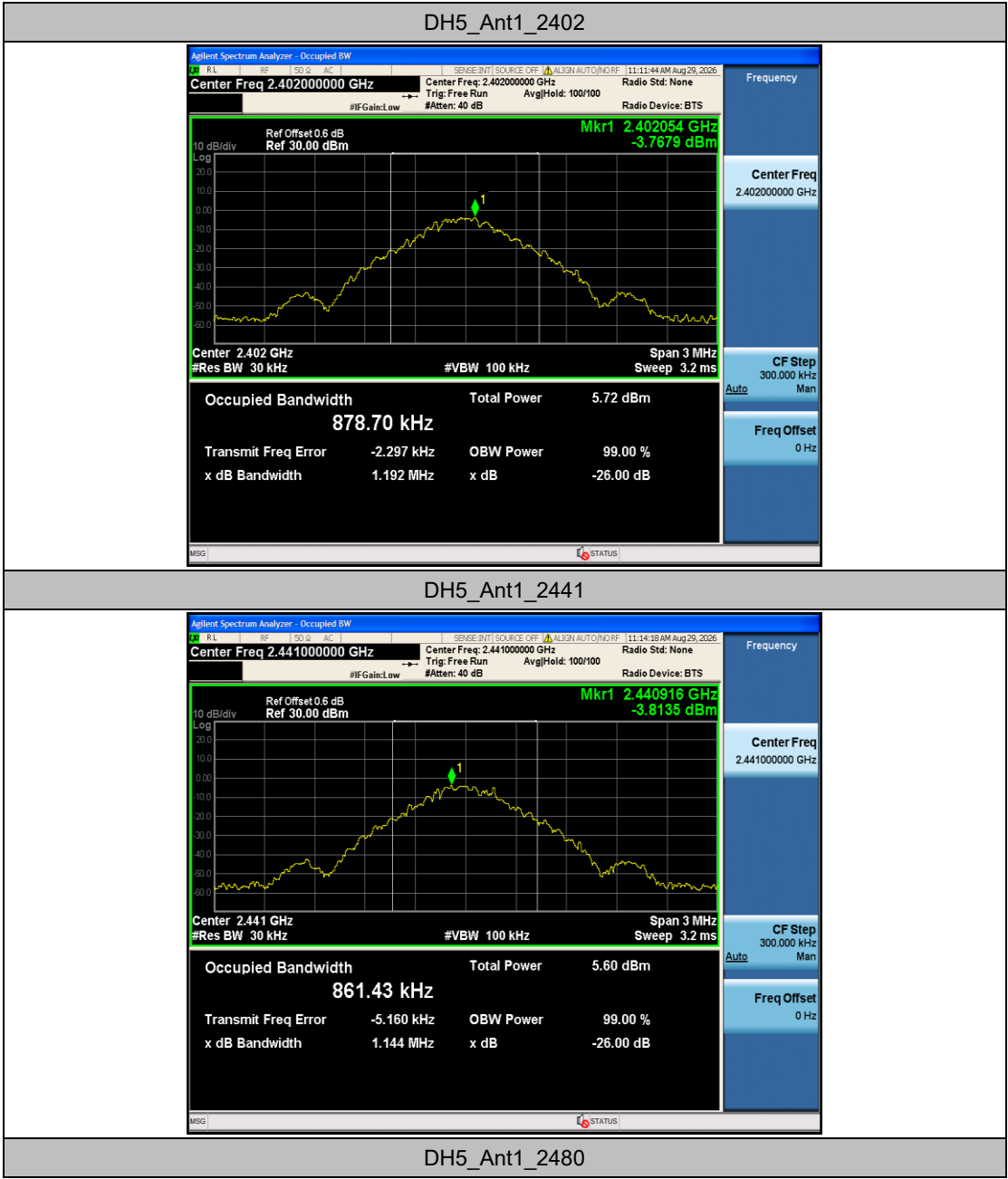


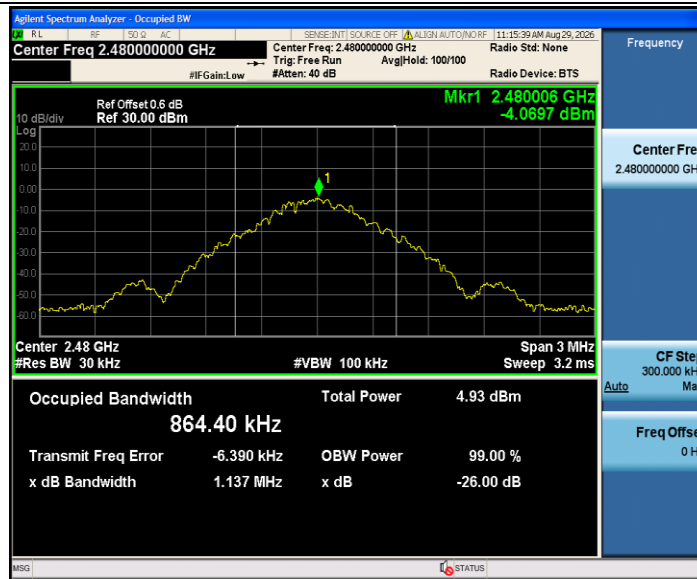
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87870	2401.5584	2402.4371	---	---
		2441	0.86143	2440.5641	2441.4256	---	---
		2480	0.86440	2479.5614	2480.4258	---	---
2DH5	Ant1	2402	1.1958	2401.3986	2402.5944	---	---
		2441	1.2016	2440.3954	2441.5970	---	---
		2480	1.1824	2479.4059	2480.5883	---	---
3DH5	Ant1	2402	1.1819	2401.4064	2402.5883	---	---
		2441	1.1978	2440.3983	2441.5961	---	---
		2480	1.1866	2479.4027	2480.5893	---	---

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

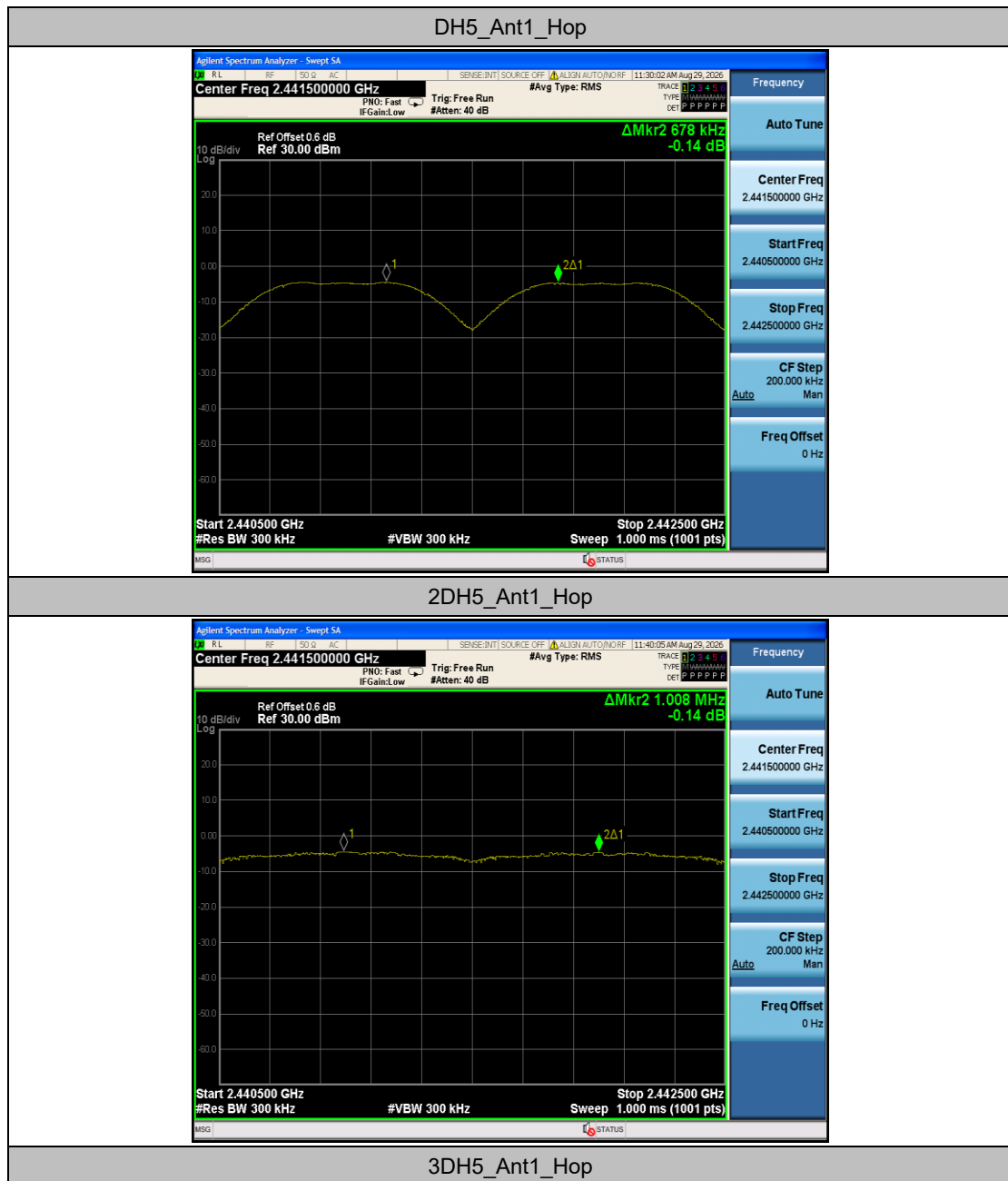
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.85	≤20.97	PASS
		2441	-1.08	≤20.97	PASS
		2480	-1.75	≤20.97	PASS
2DH5	Ant1	2402	-1.63	≤20.97	PASS
		2441	-1.82	≤20.97	PASS
		2480	-2.54	≤20.97	PASS
3DH5	Ant1	2402	-1.05	≤20.97	PASS
		2441	-1.33	≤20.97	PASS
		2480	-2.01	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.678	≥ 0.428	PASS
2DH5	Ant1	Hop	1.008	≥ 0.894	PASS
3DH5	Ant1	Hop	0.95	≥ 0.890	PASS

Test Graphs



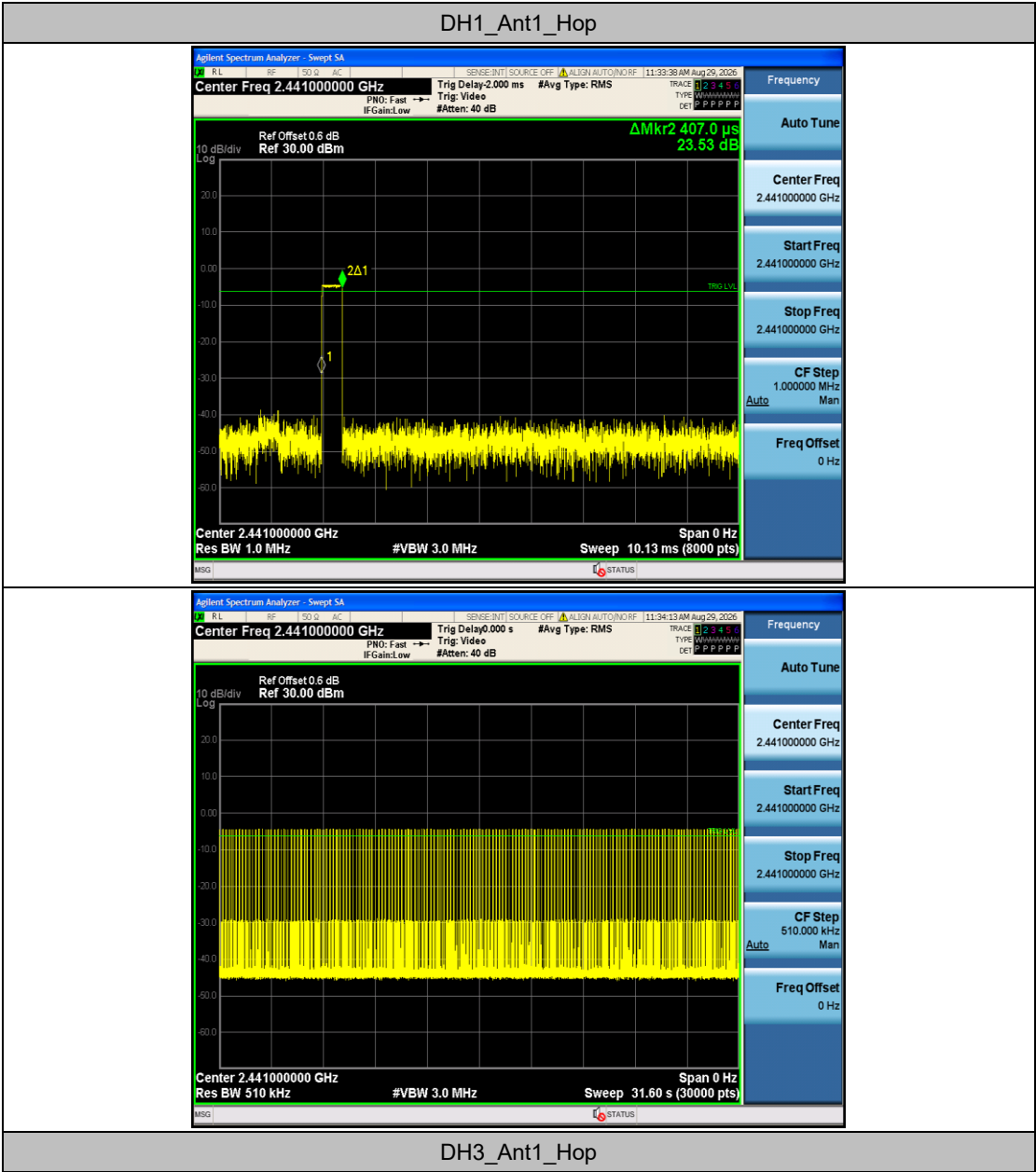


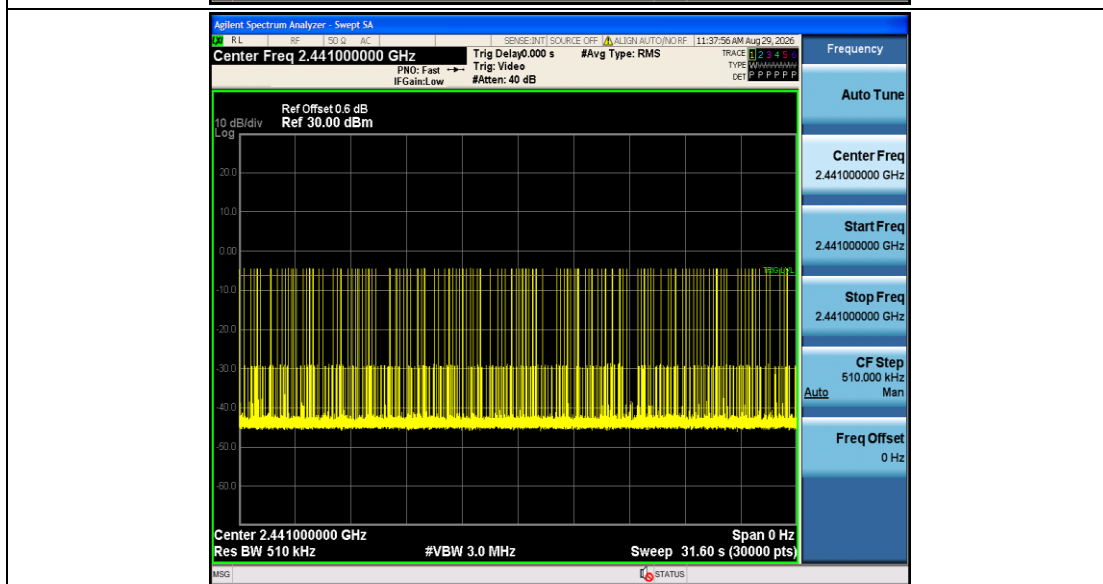
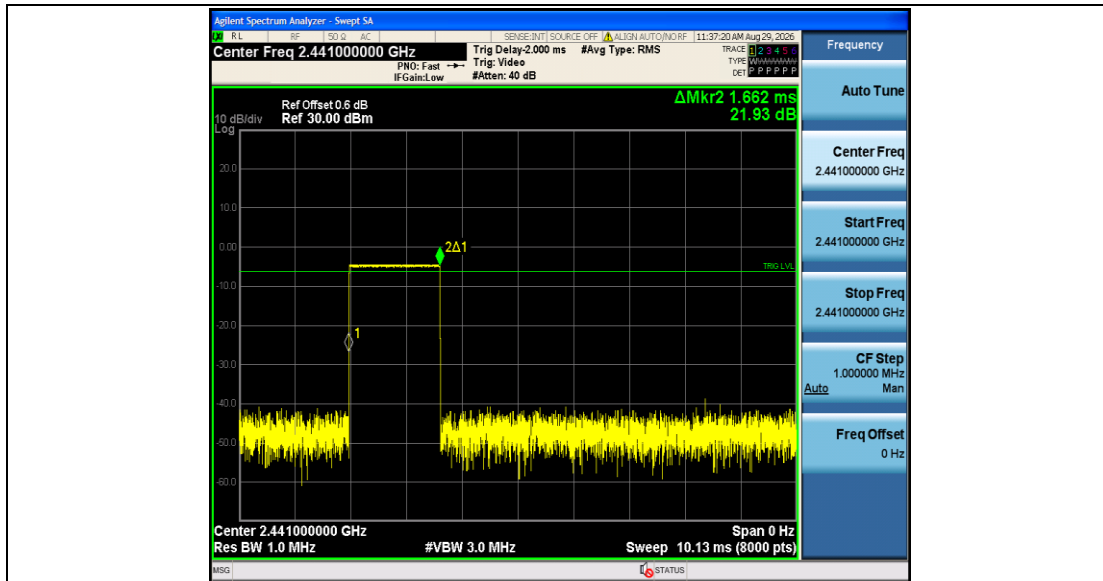
Appendix E: Time of occupancy

Test Result

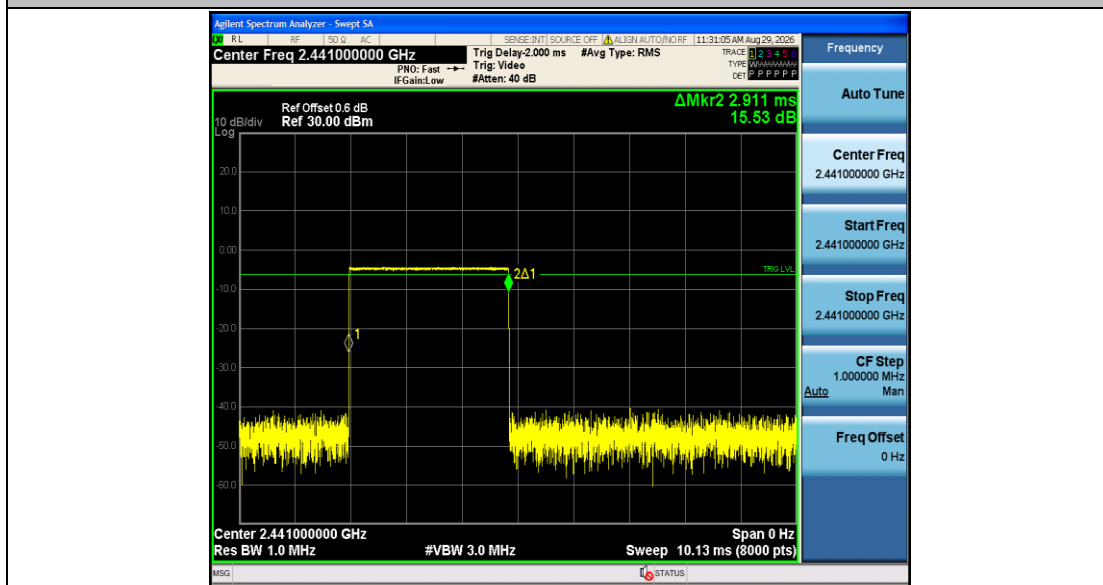
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	150	0.249	≤0.4	PASS
DH5	Ant1	Hop	2.911	110	0.32	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	167	0.279	≤0.4	PASS
2DH5	Ant1	Hop	2.915	100	0.292	≤0.4	PASS
3DH1	Ant1	Hop	0.415	311	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.666	152	0.253	≤0.4	PASS
3DH5	Ant1	Hop	2.916	115	0.335	≤0.4	PASS

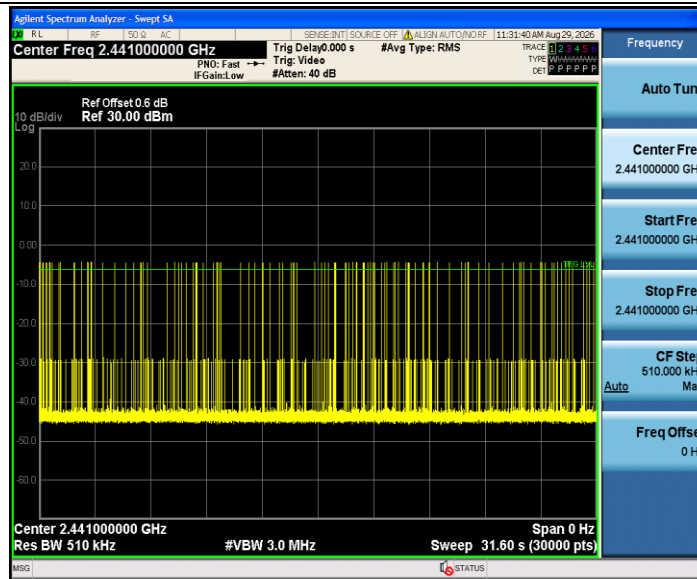
Test Graphs



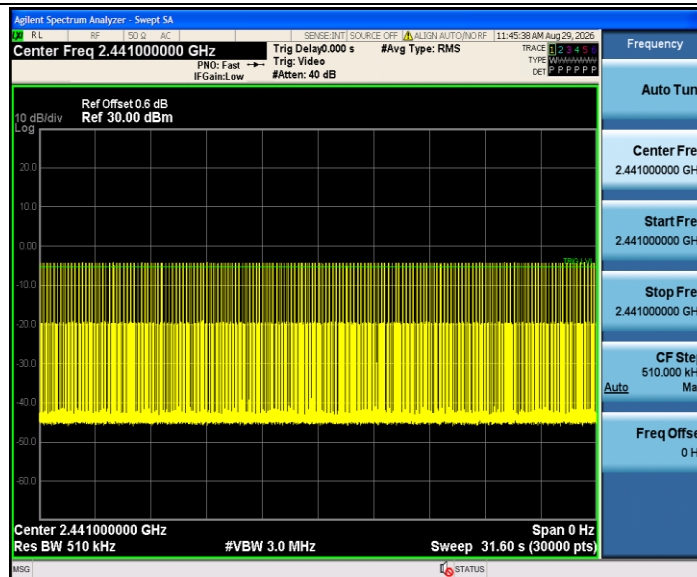
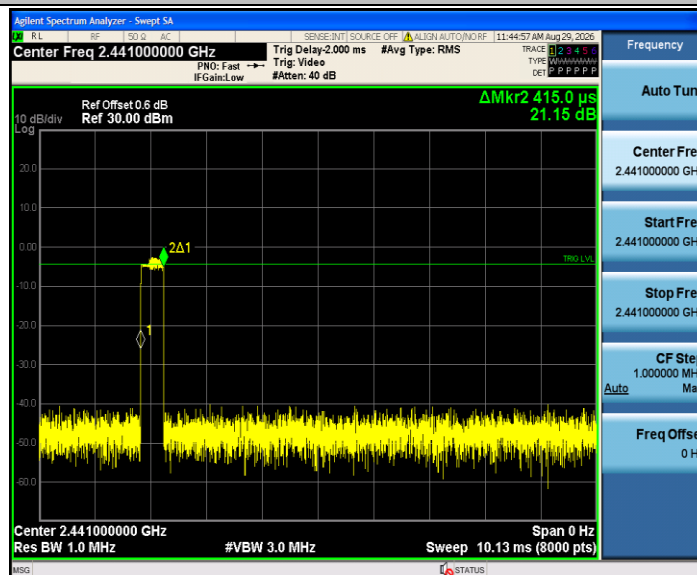


DH5_Ant1_Hop

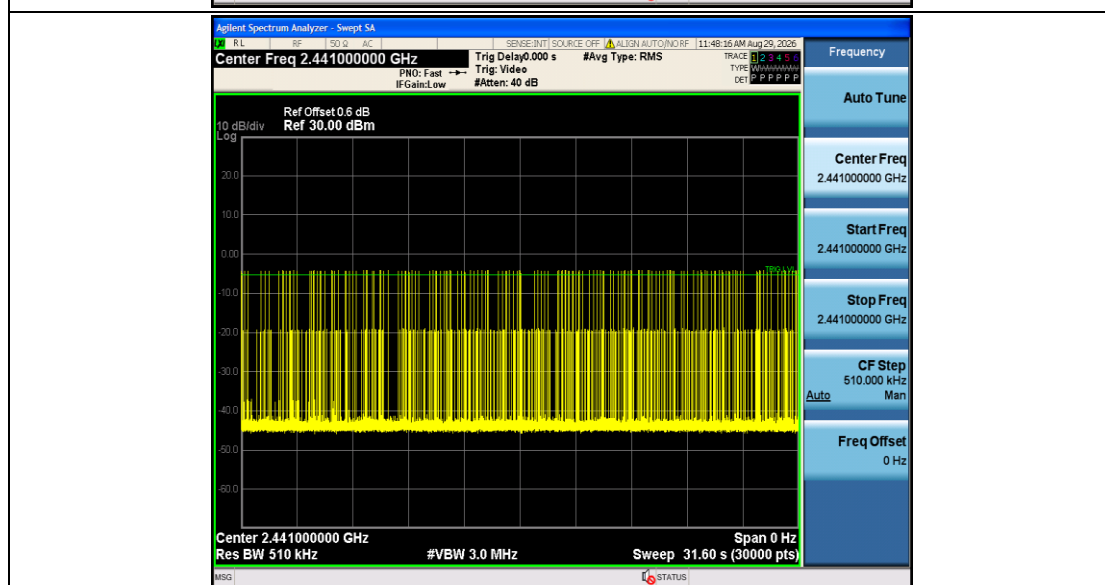
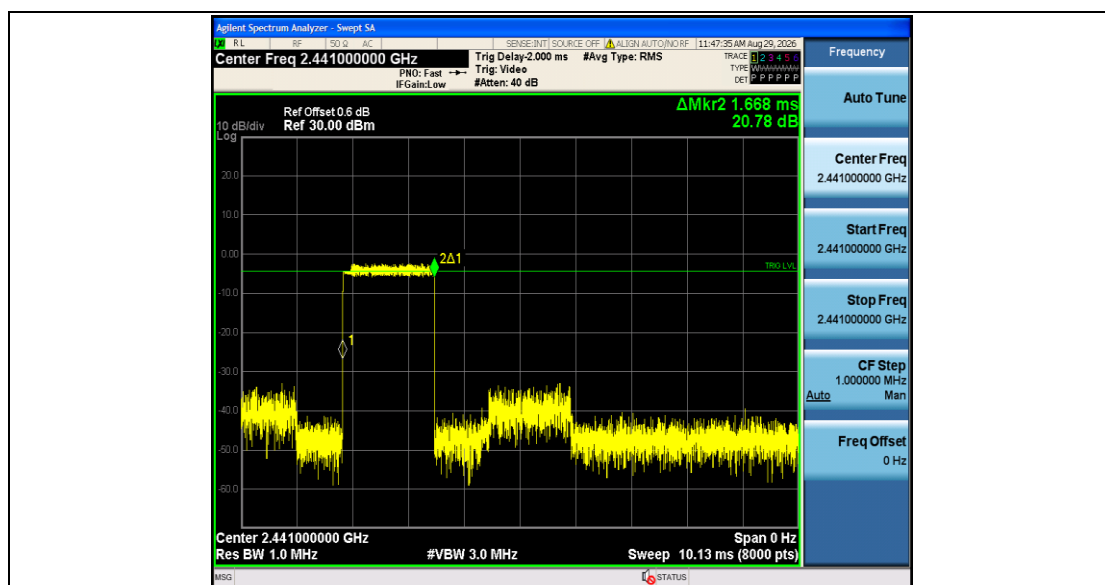




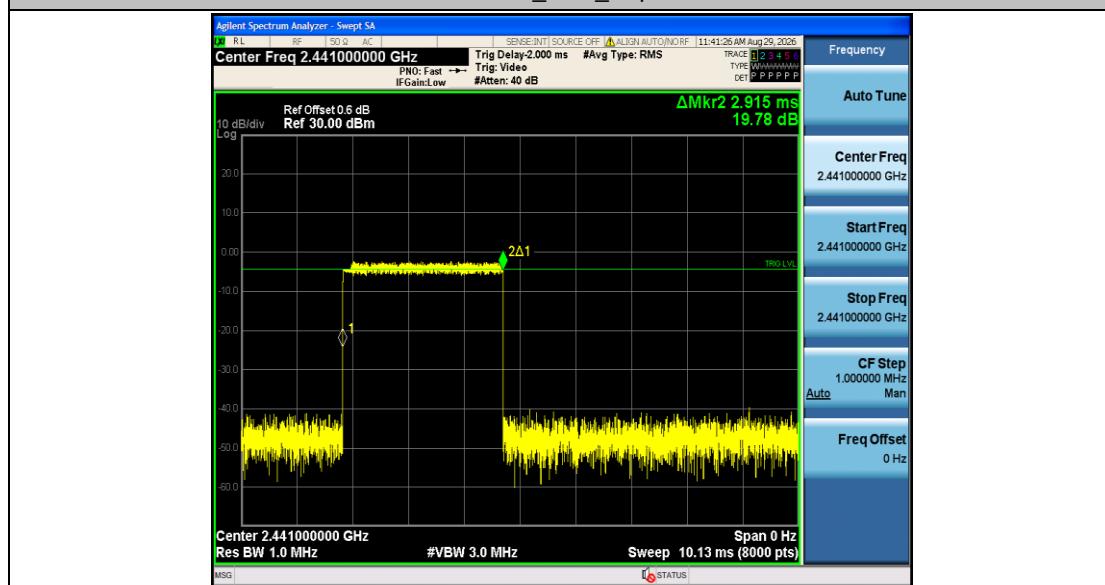
2DH1_Ant1_Hop

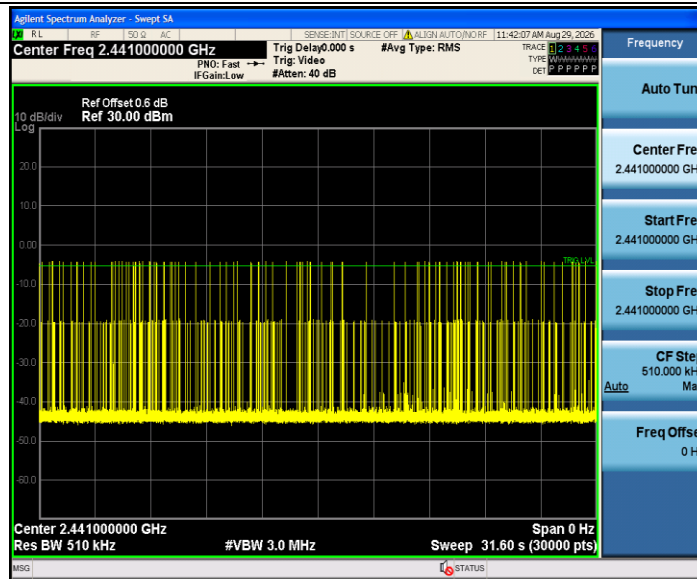


2DH3_Ant1_Hop

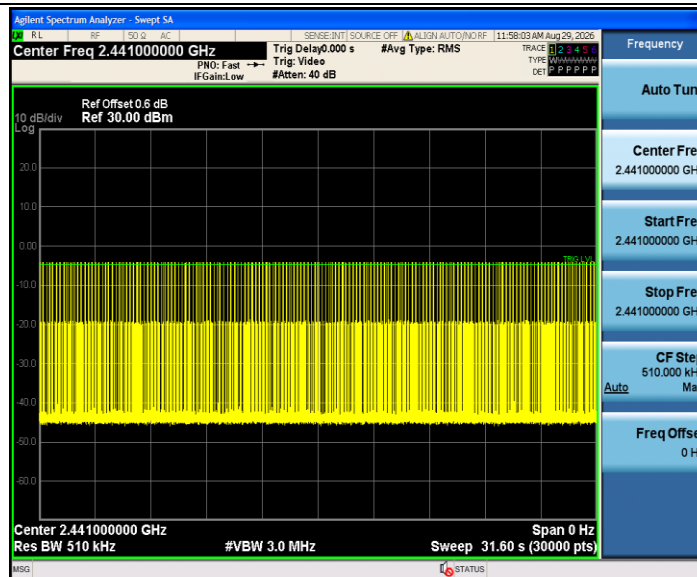
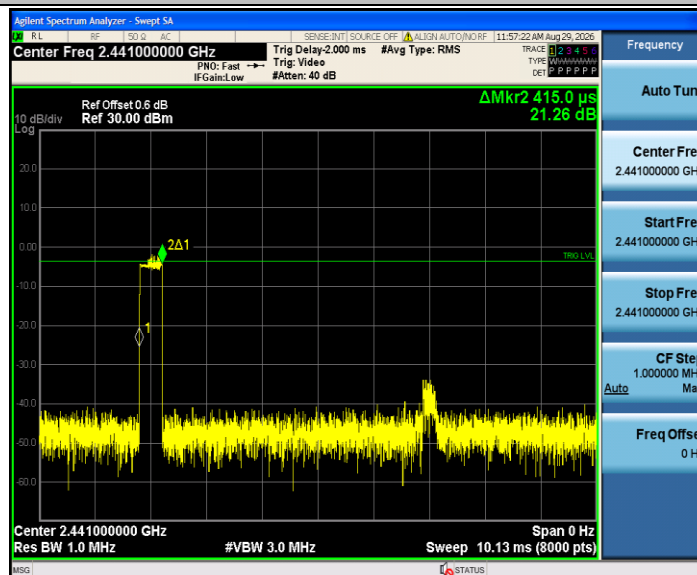


2DH5_Ant1_Hop

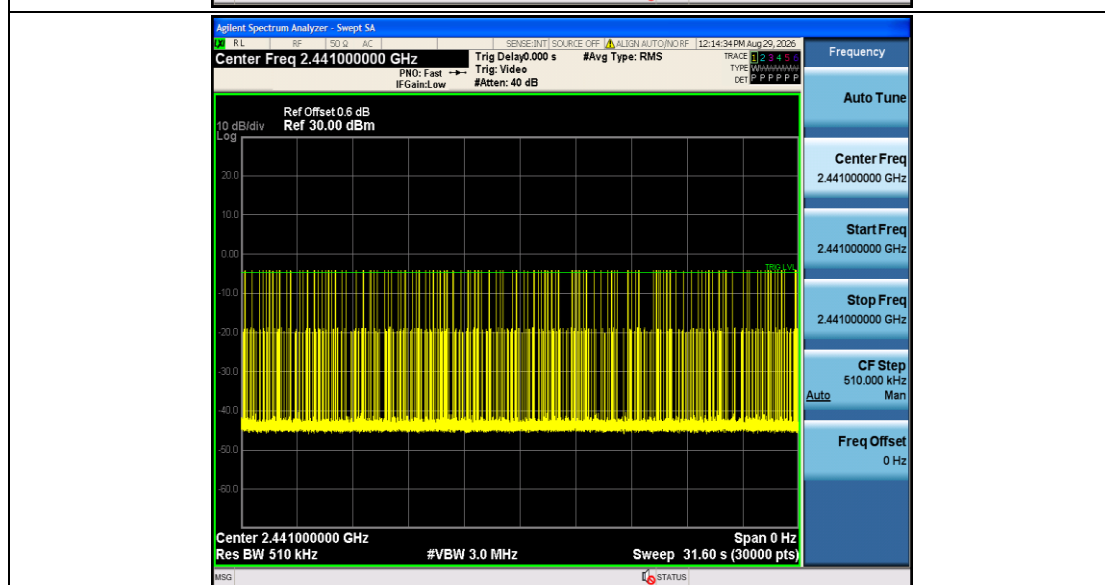
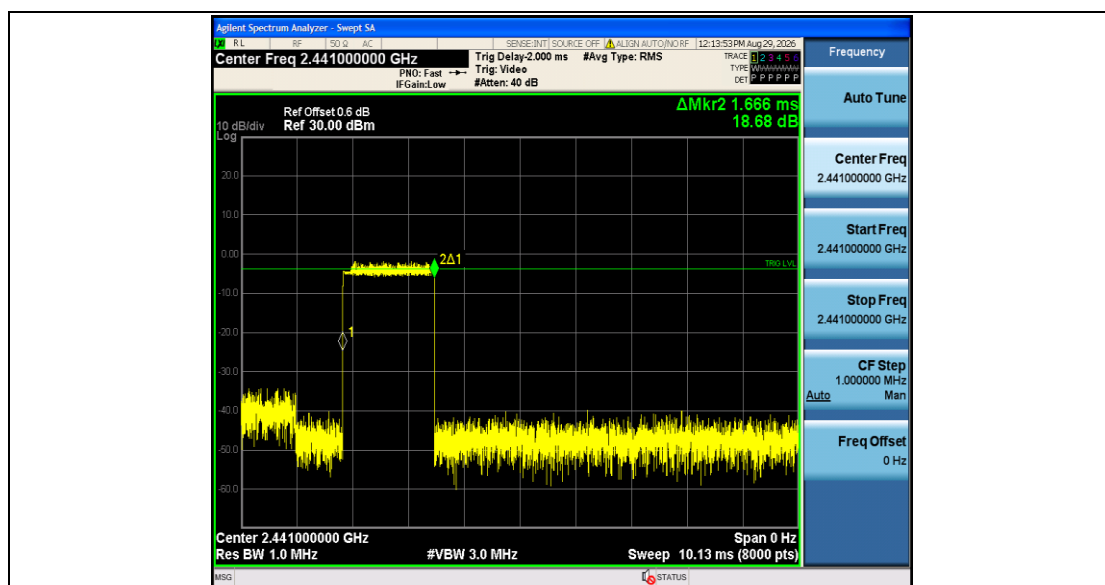




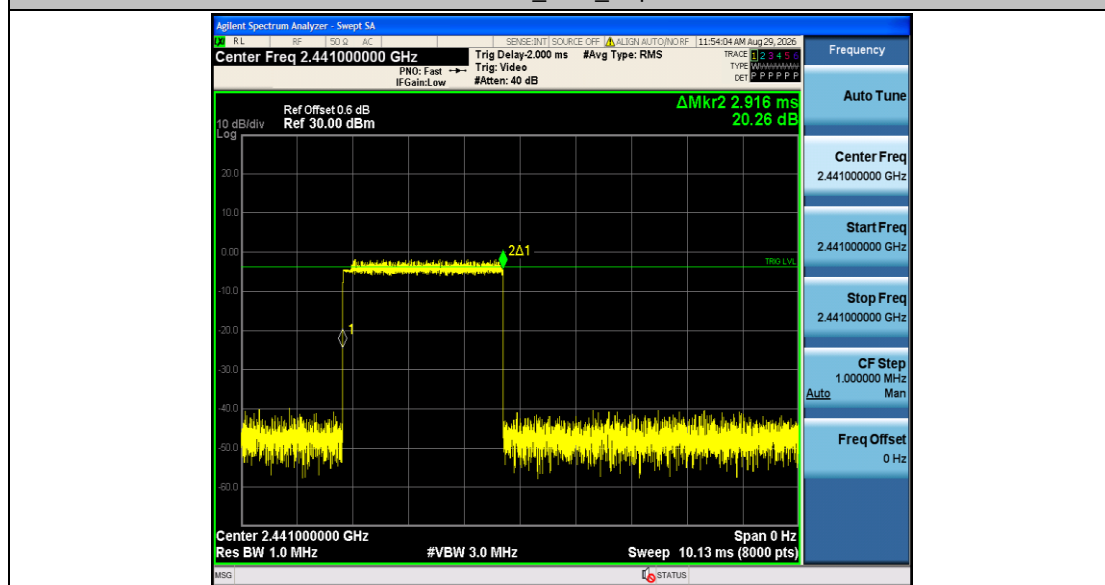
3DH1_Ant1_Hop

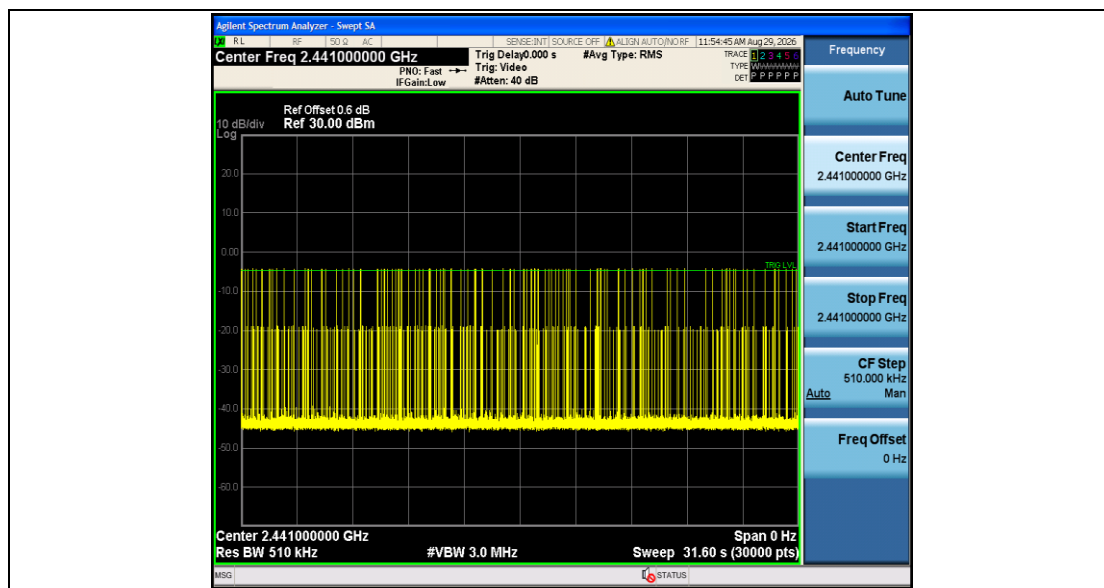


3DH3_Ant1_Hop



3DH5_Ant1_Hop



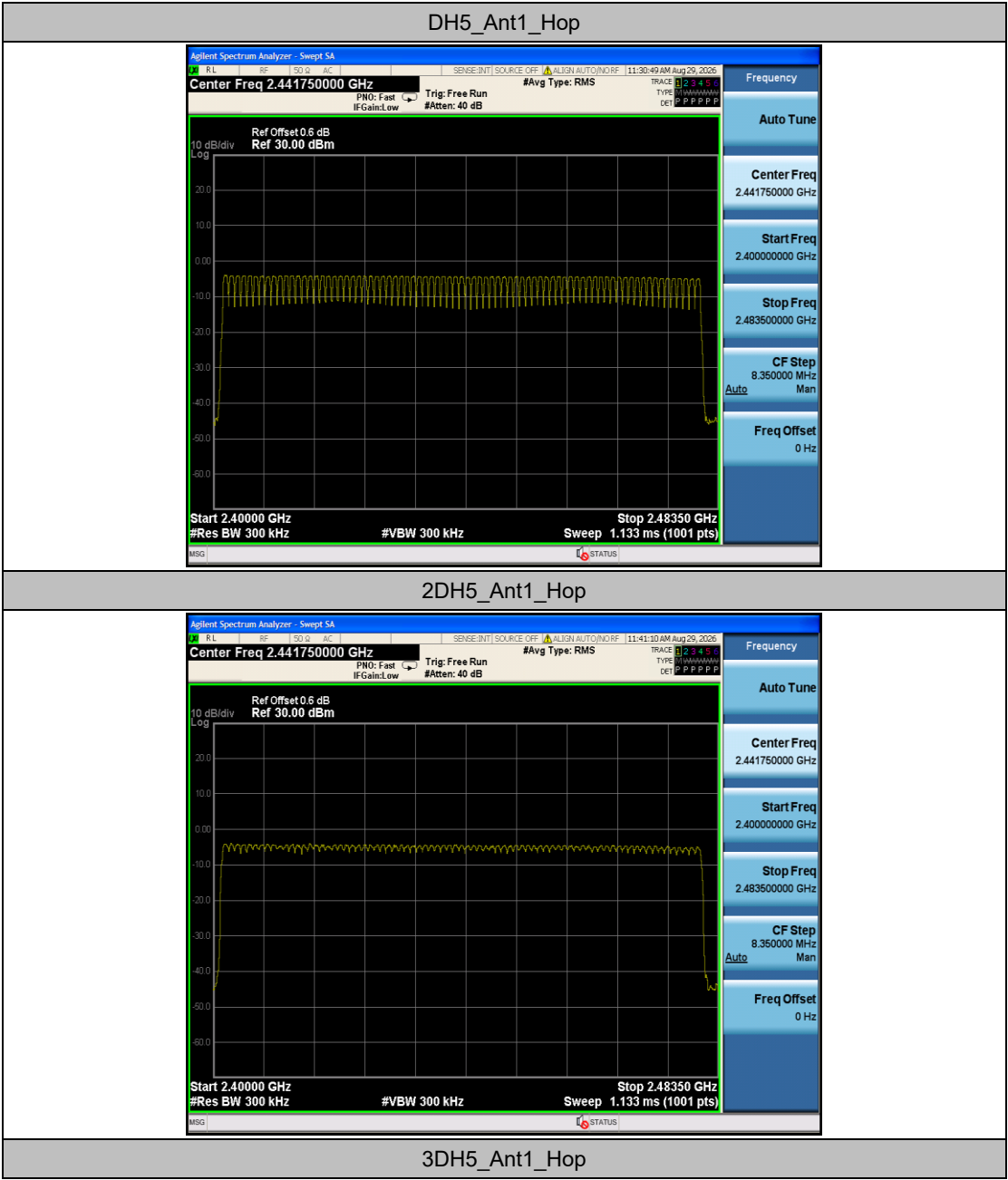


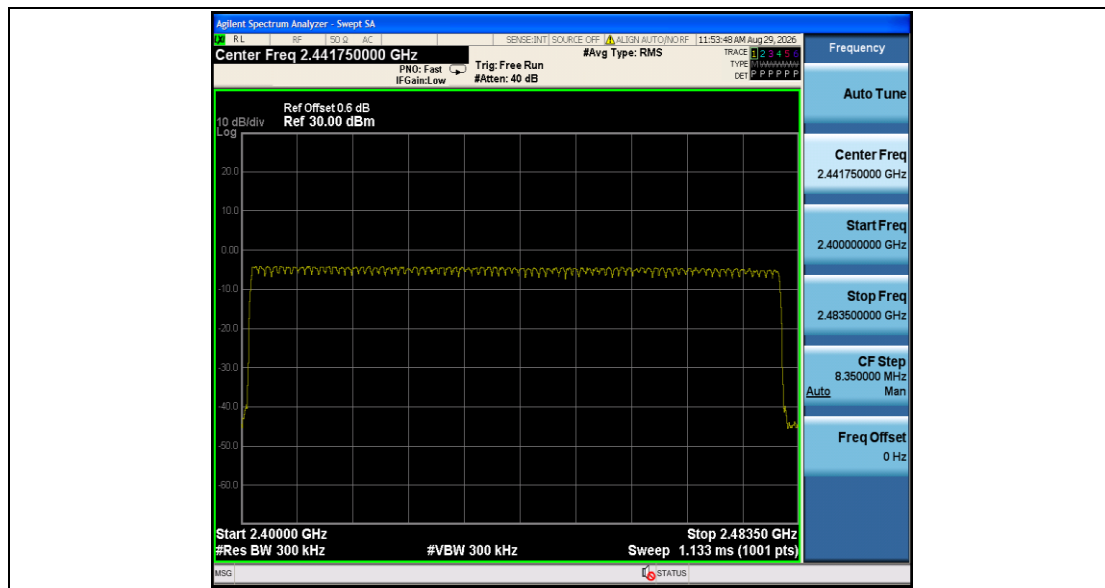
Appendix F: Number of hopping channels

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





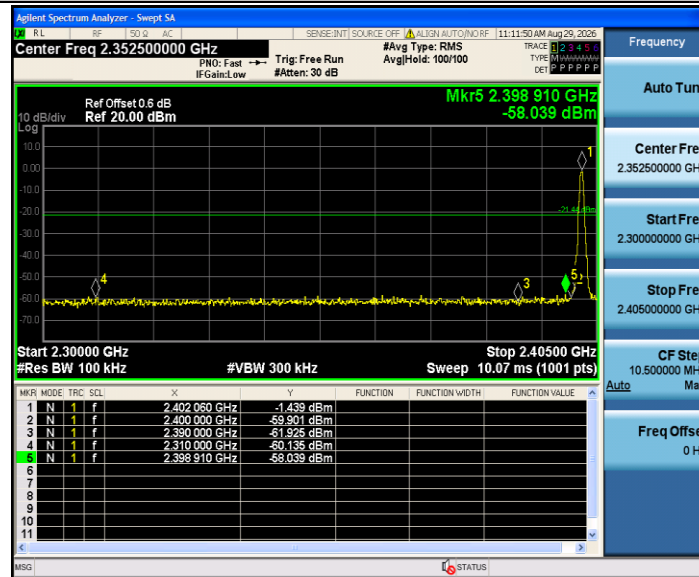
Appendix G: Band edge measurements

Test Result

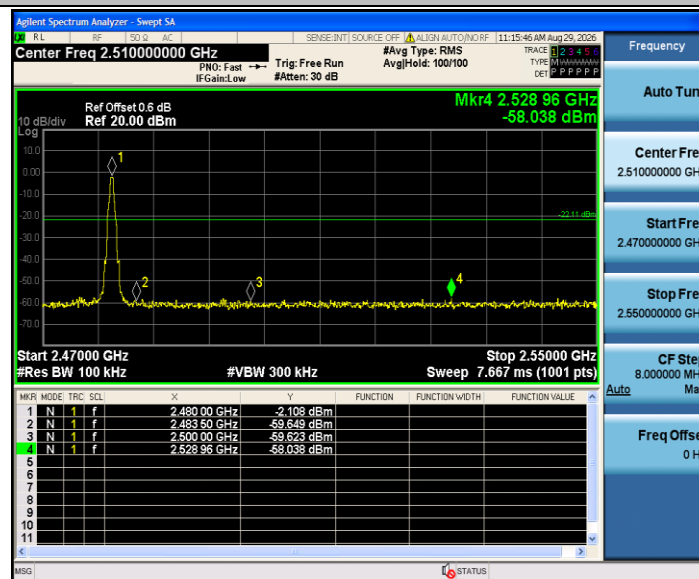
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.44	-58.04	≤ -21.44	PASS
		High	2480	-2.11	-58.04	≤ -22.11	PASS
		Low	Hop_2402	-4.84	-58.57	≤ -24.84	PASS
		High	Hop_2480	-5.42	-57.94	≤ -25.42	PASS
2DH5	Ant1	Low	2402	-6.73	-58.15	≤ -26.73	PASS
		High	2480	-5.68	-58	≤ -25.68	PASS
		Low	Hop_2402	-5.99	-57.42	≤ -25.99	PASS
		High	Hop_2480	-4.91	-57.34	≤ -24.91	PASS
3DH5	Ant1	Low	2402	-4.29	-57.84	≤ -24.29	PASS
		High	2480	-5.22	-57.92	≤ -25.22	PASS
		Low	Hop_2402	-4.42	-58.33	≤ -24.42	PASS
		High	Hop_2480	-5.37	-56.89	≤ -25.37	PASS

Test Graphs

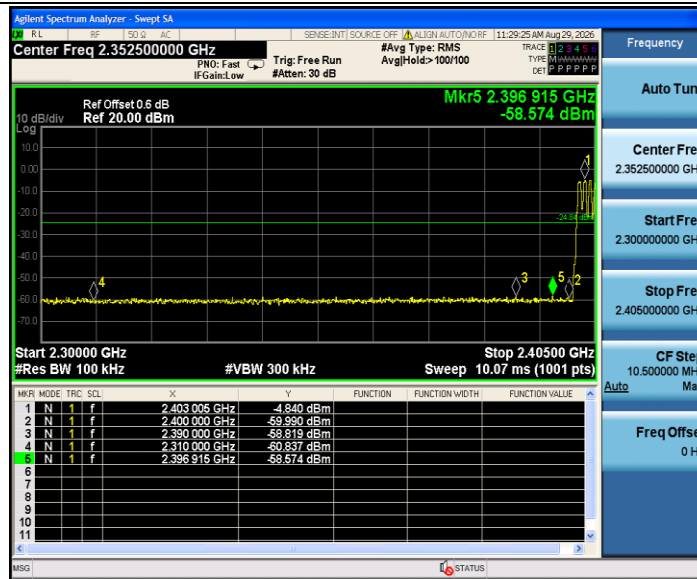
DH5_Ant1_Low_2402



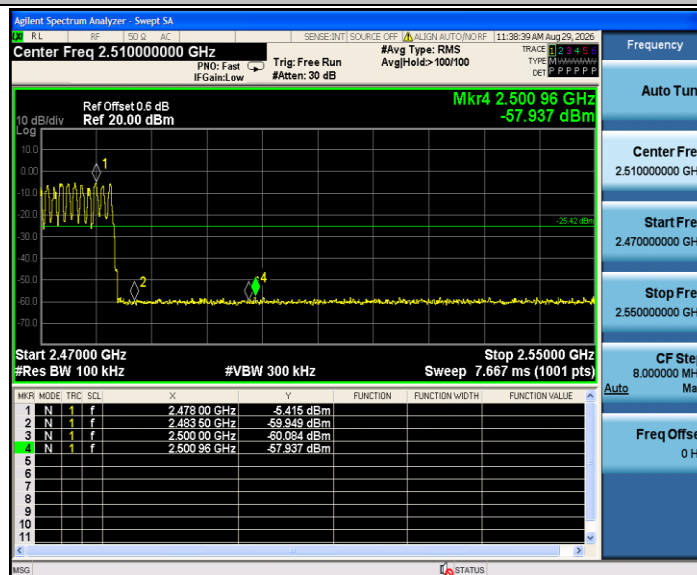
DH5_Ant1_High_2480



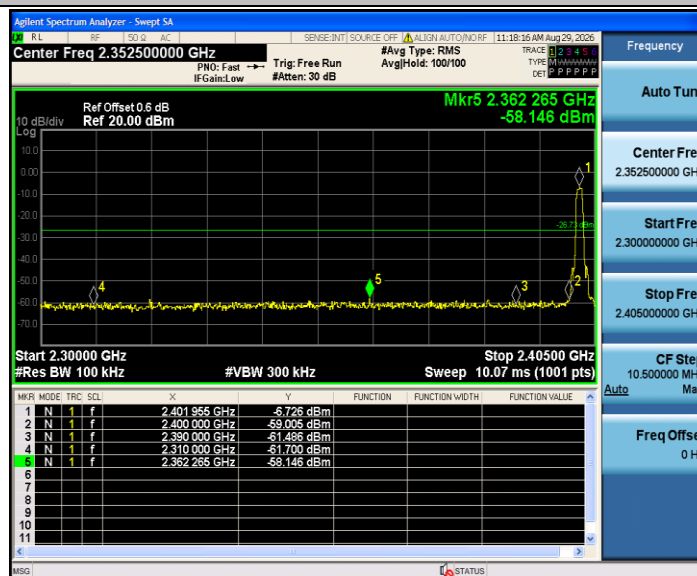
DH5_Ant1_Low_Hop_2402



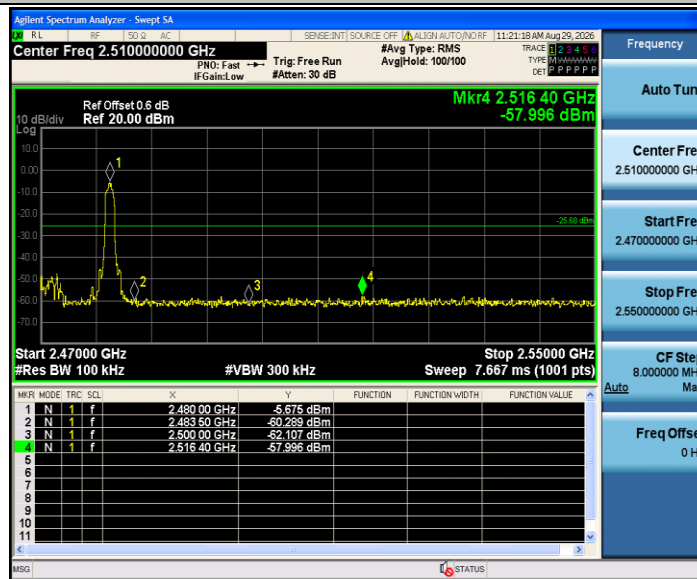
DH5_Ant1_High_Hop_2480



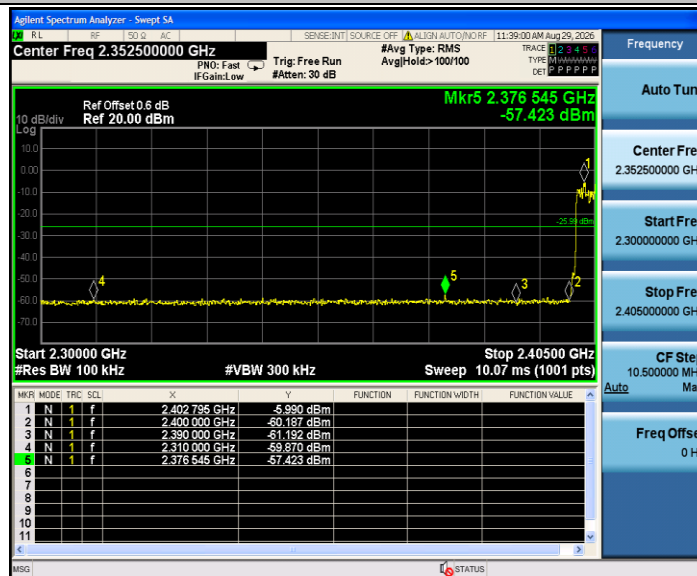
2DH5_Ant1_Low_2402



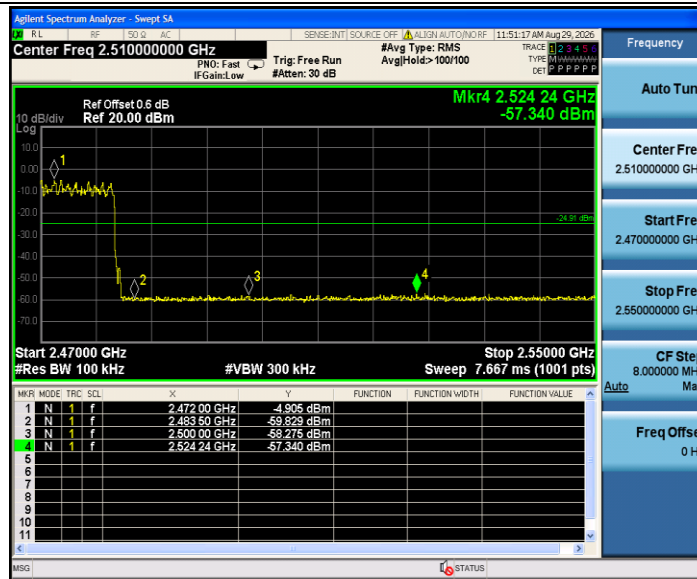
2DH5_Ant1_High_2480



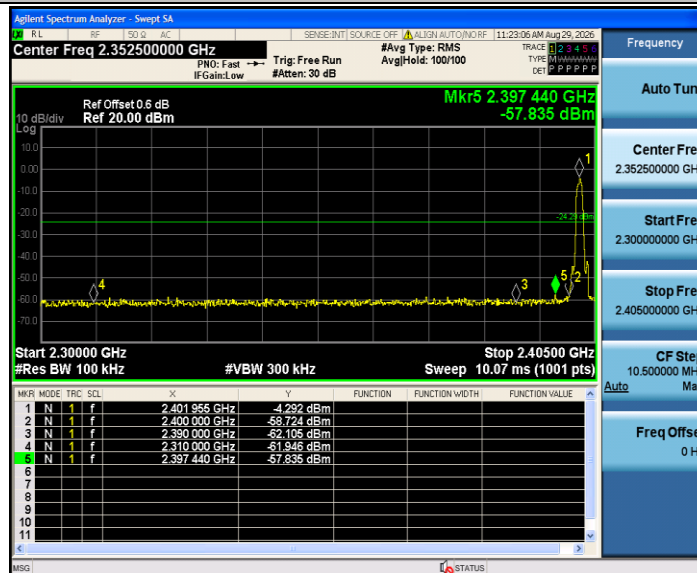
2DH5_Ant1_Low_Hop_2402



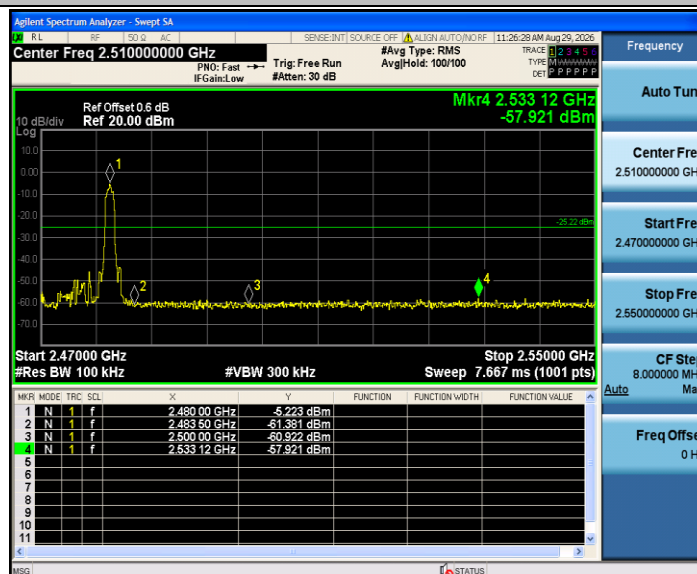
2DH5_Ant1_High_Hop_2480



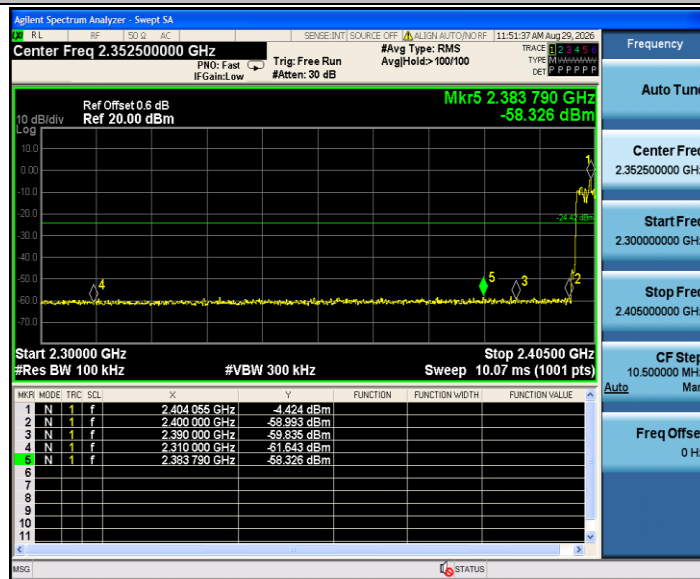
3DH5_Ant1_Low_2402



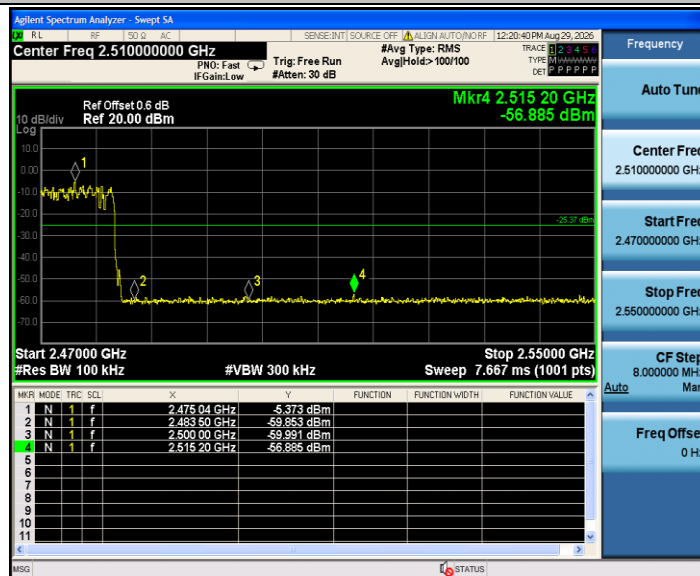
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

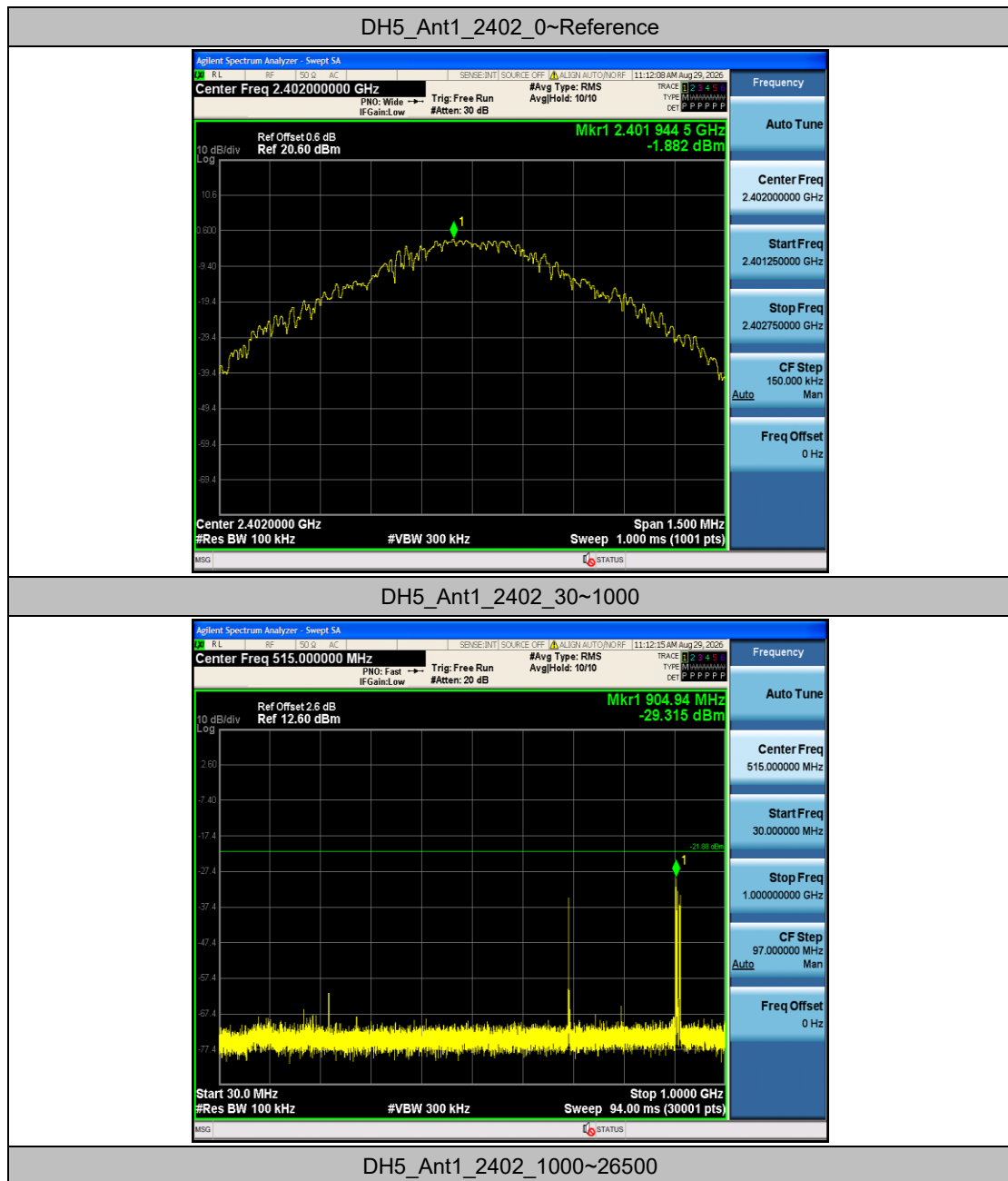


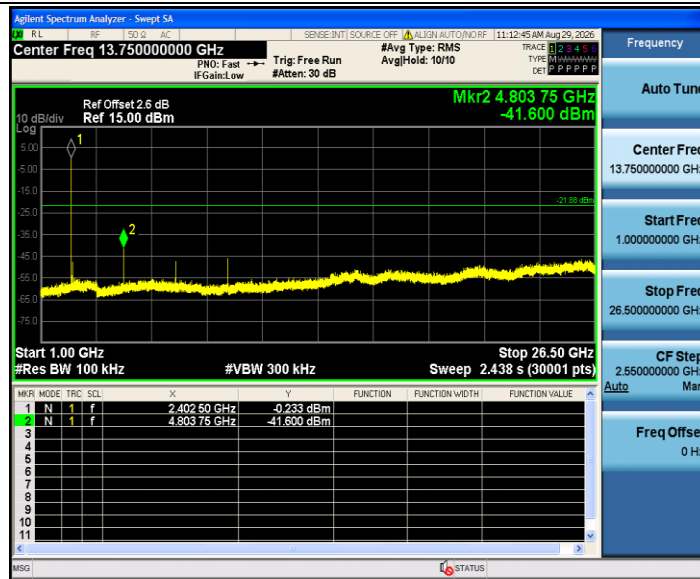
Appendix H: Conducted Spurious Emission

Test Result

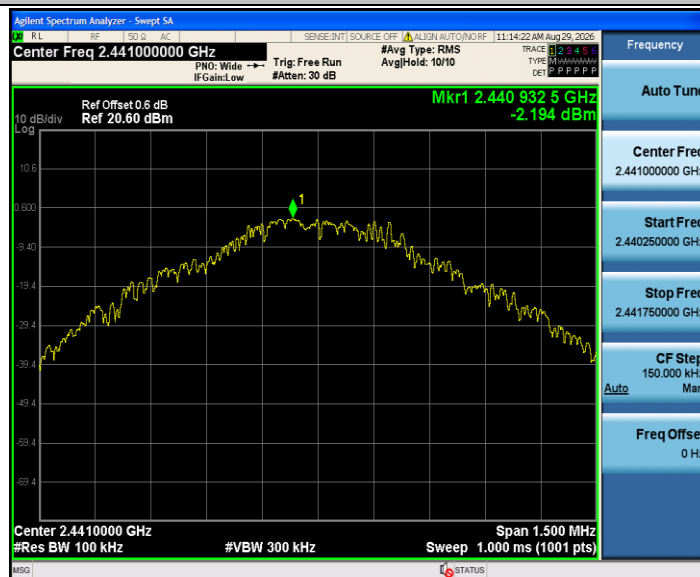
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-29.32	≤-21.88	PASS
			1000~26500	-1.88	-41.6	≤-21.88	PASS
		2441	Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-45.33	≤-22.19	PASS
			1000~26500	-2.19	-38.82	≤-22.19	PASS
		2480	Reference	-2.56	-2.56	---	PASS
			30~1000	-2.56	-43.06	≤-22.56	PASS
			1000~26500	-2.56	-37.51	≤-22.56	PASS
2DH5	Ant1	2402	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-46.05	≤-25.11	PASS
			1000~26500	-5.11	-44	≤-25.11	PASS
		2441	Reference	-6.06	-6.06	---	PASS
			30~1000	-6.06	-44.17	≤-26.06	PASS
			1000~26500	-6.06	-44.52	≤-26.06	PASS
		2480	Reference	-6.04	-6.04	---	PASS
			30~1000	-6.04	-51.41	≤-26.04	PASS
			1000~26500	-6.04	-42.84	≤-26.04	PASS
3DH5	Ant1	2402	Reference	-5.61	-5.61	---	PASS
			30~1000	-5.61	-56.26	≤-25.61	PASS
			1000~26500	-5.61	-45.66	≤-25.61	PASS
		2441	Reference	-7.26	-7.26	---	PASS
			30~1000	-7.26	-50.14	≤-27.26	PASS
			1000~26500	-7.26	-42.97	≤-27.26	PASS
		2480	Reference	-7.80	-7.80	---	PASS
			30~1000	-7.80	-54.03	≤-27.8	PASS
			1000~26500	-7.80	-39.66	≤-27.8	PASS

Test Graphs

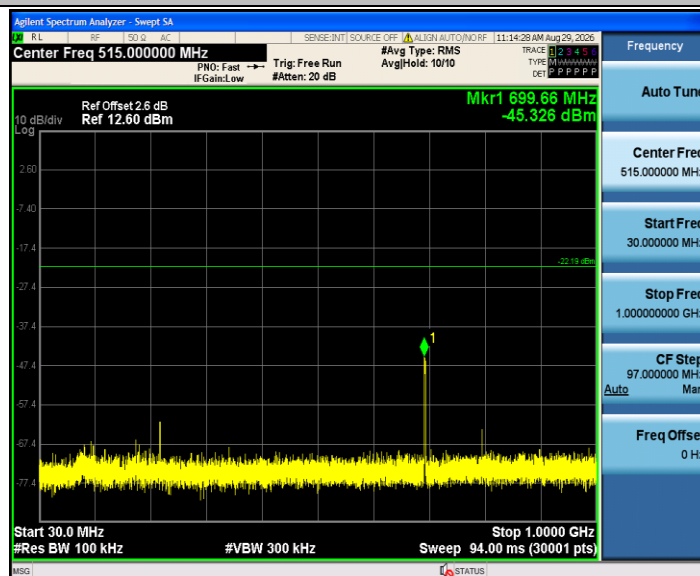




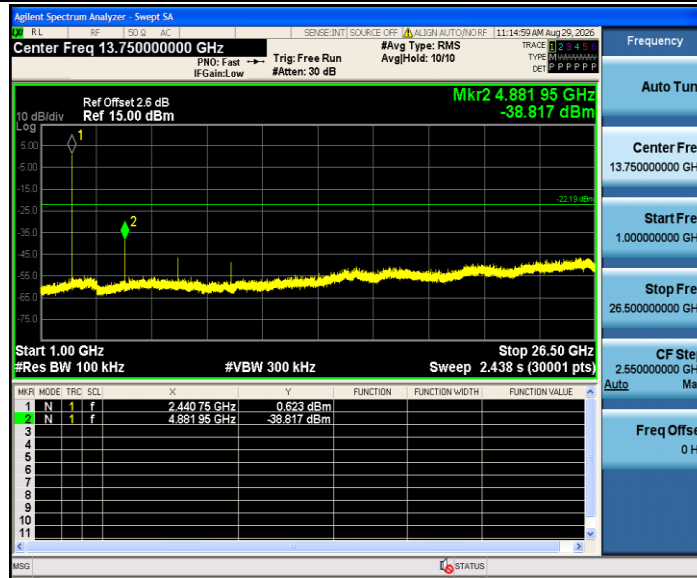
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000