

FCC Appendix RF Test Data for BT

FCC ID : 2BK62-A18PLUS

Company : Shenzhen Wenfengsheng Electronics Co., Ltd.

EUT : Wireless Earphone

Model Number : A18PLUS

Report No. : CTA25092201401

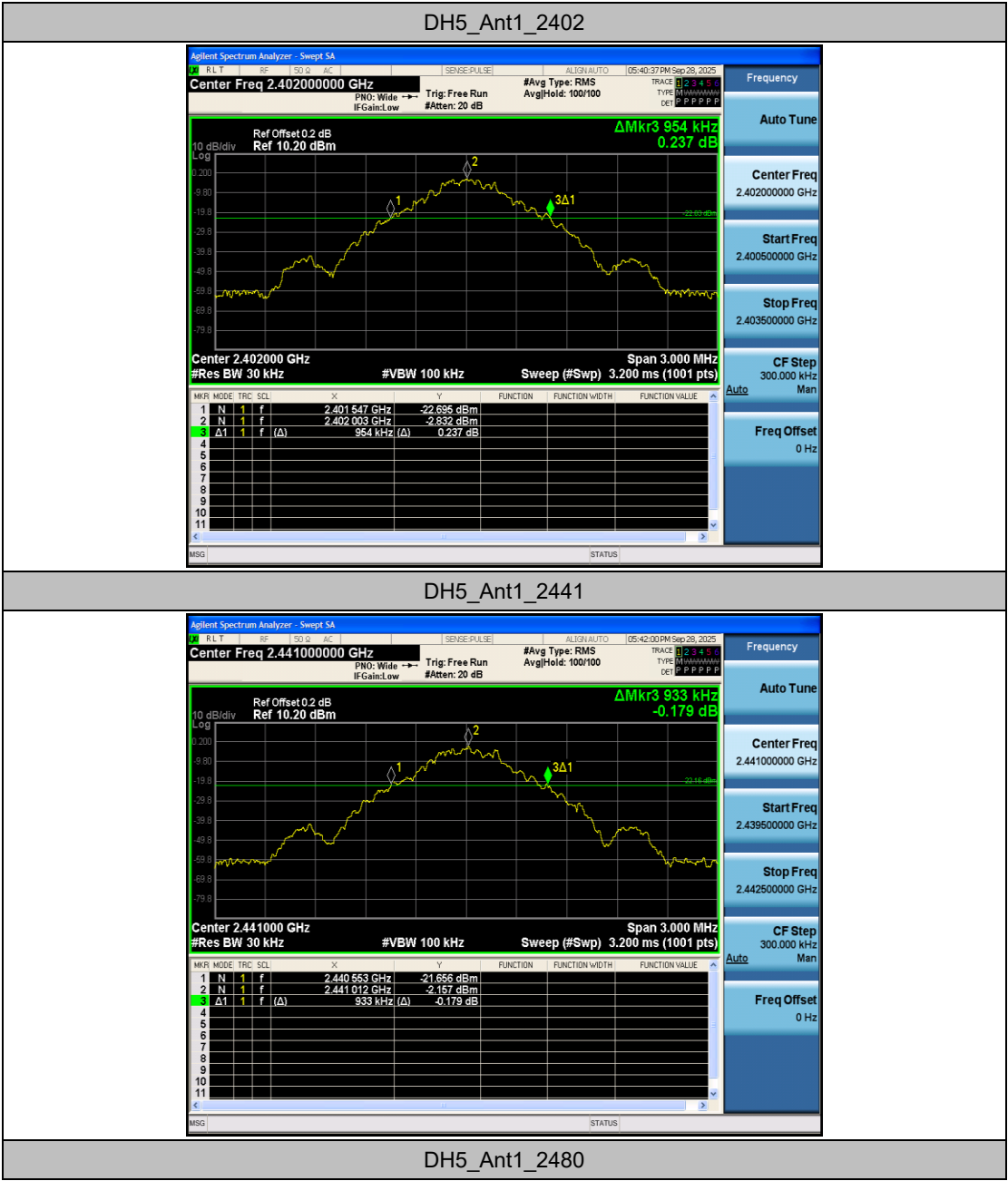
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.547	2402.501	---	---
		2441	0.933	2440.553	2441.486	---	---
		2480	0.951	2479.544	2480.495	---	---
2DH5	Ant1	2402	1.326	2401.346	2402.672	---	---
		2441	1.305	2440.355	2441.660	---	---
		2480	1.335	2479.337	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

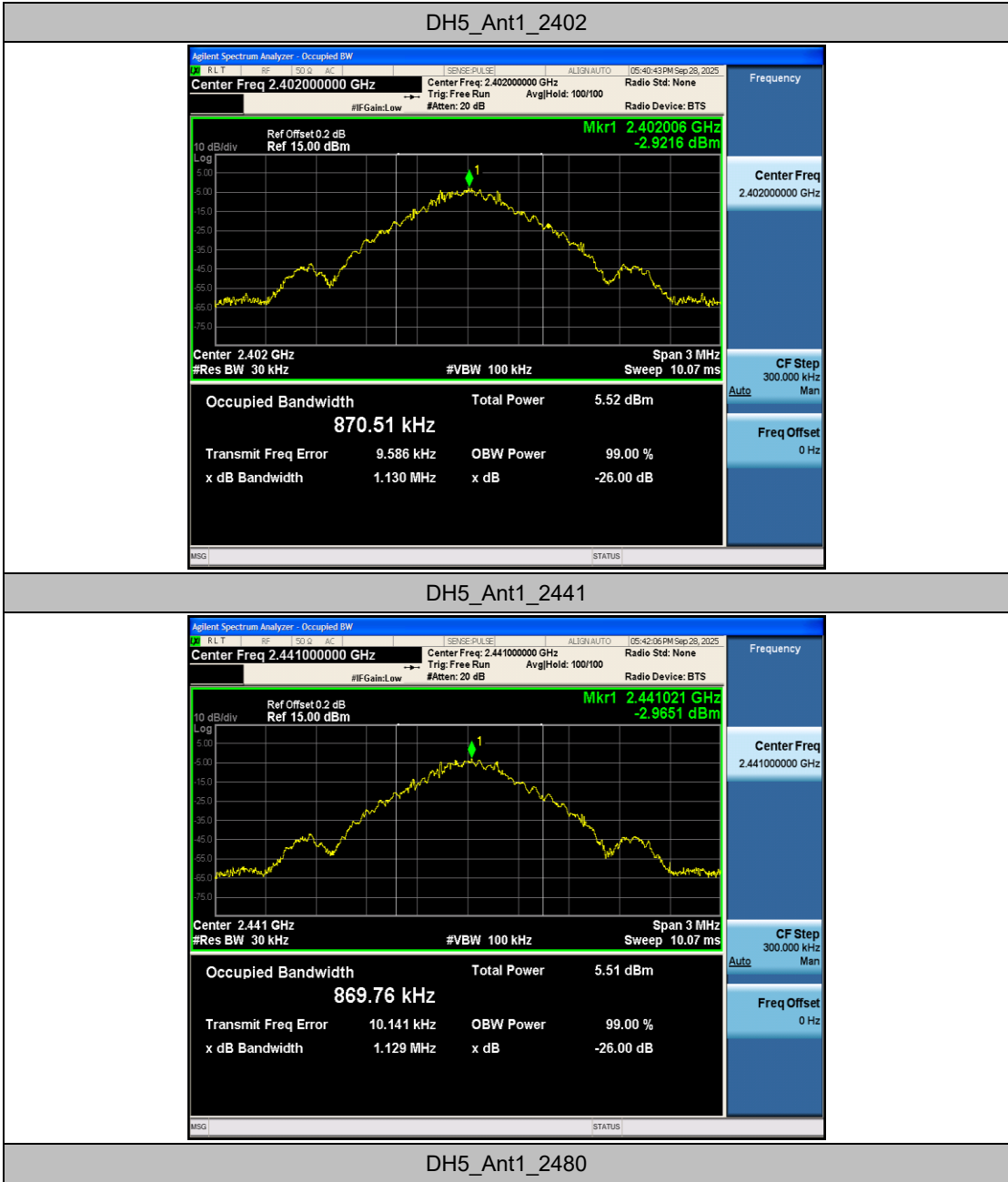


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87051	2401.5743	2402.4448	---	---
		2441	0.86976	2440.5753	2441.4450	---	---
		2480	0.87226	2479.5718	2480.4441	---	---
2DH5	Ant1	2402	1.1938	2401.4125	2402.6063	---	---
		2441	1.1993	2440.4110	2441.6103	---	---
		2480	1.1911	2479.4142	2480.6053	---	---

Test Graphs

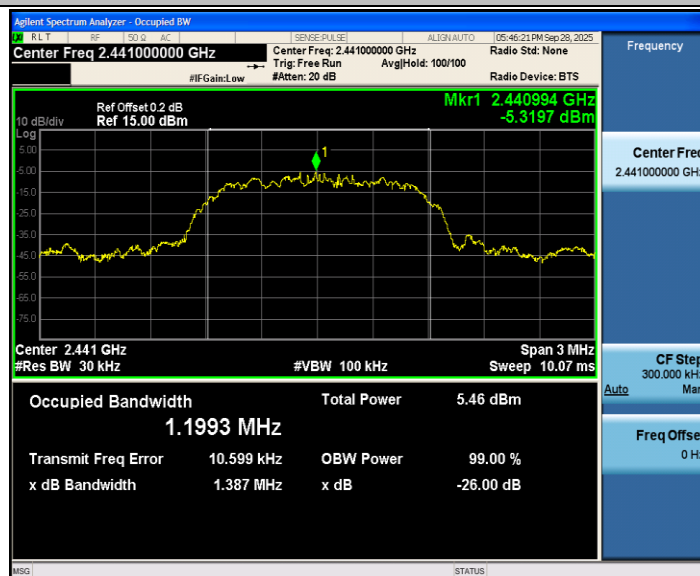




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_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	-0.30	≤20.97	PASS
		2441	-0.51	≤20.97	PASS
		2480	-0.56	≤20.97	PASS
2DH5	Ant1	2402	2.42	≤20.97	PASS
		2441	2.19	≤20.97	PASS
		2480	2.17	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.156	≥ 0.954	PASS
2DH5	Ant1	Hop	1.192	≥ 0.890	PASS

Test Graphs

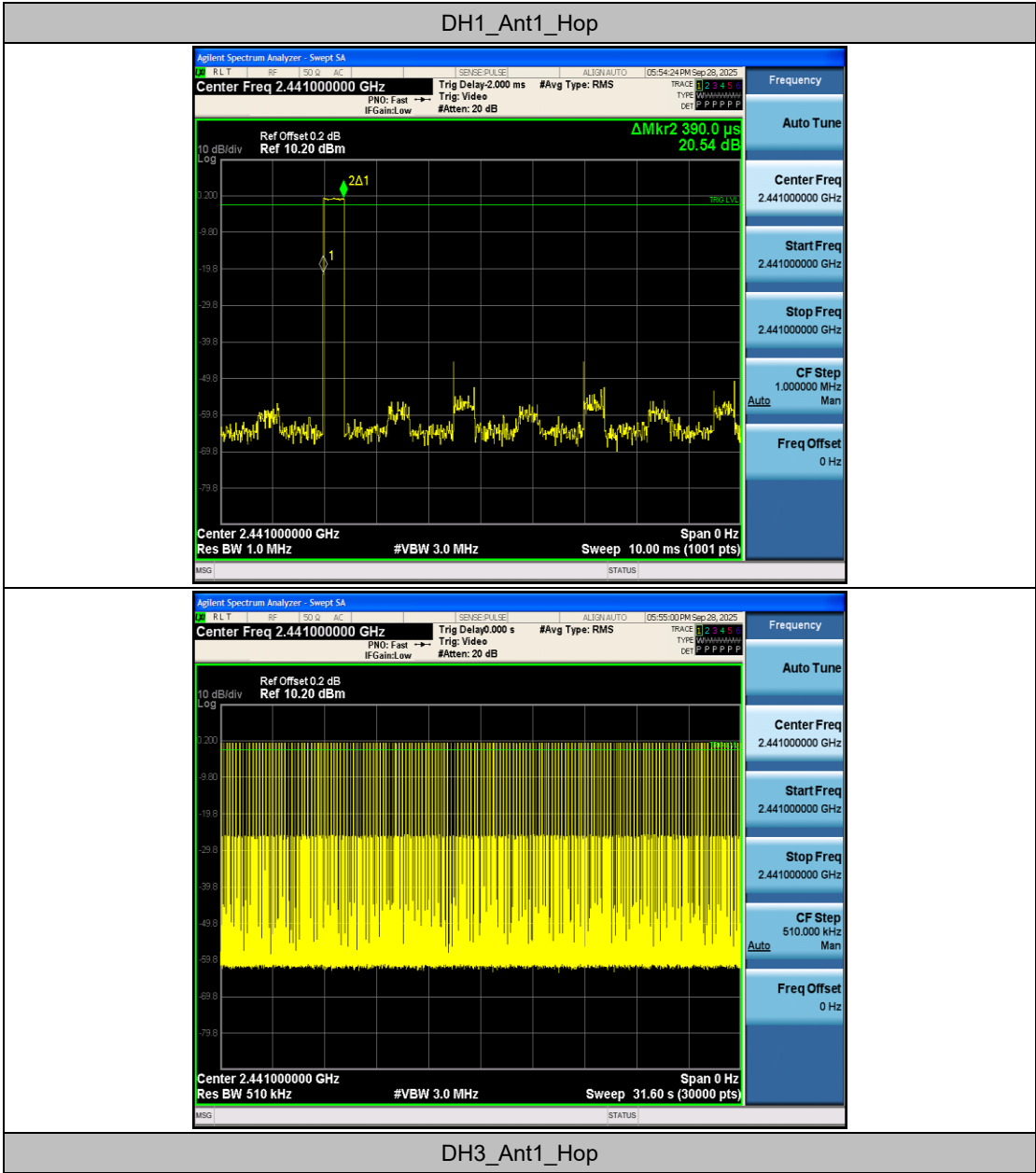


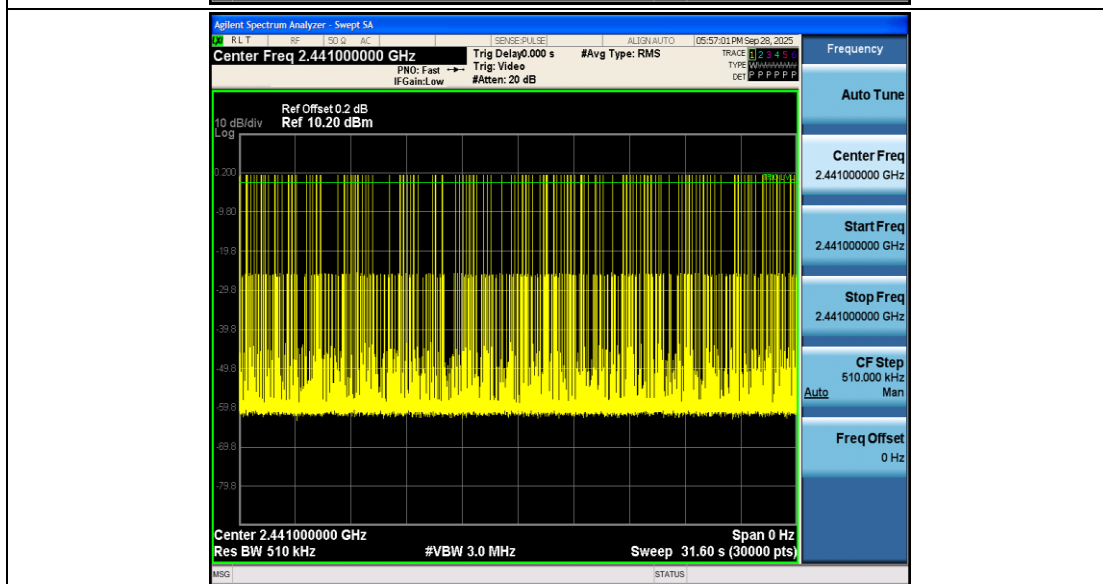
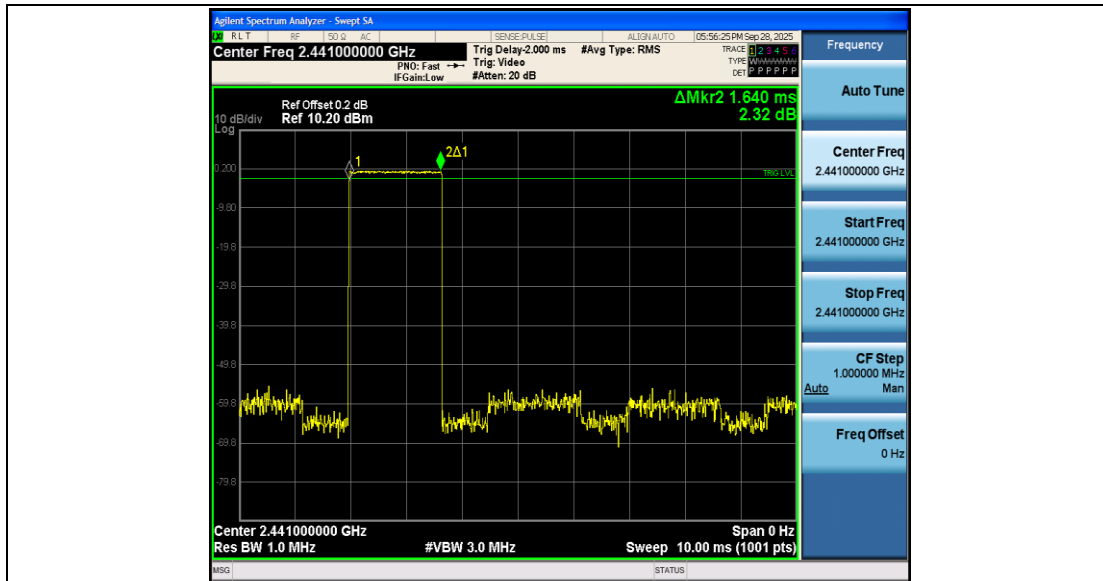
Appendix E: Time of occupancy

Test Result

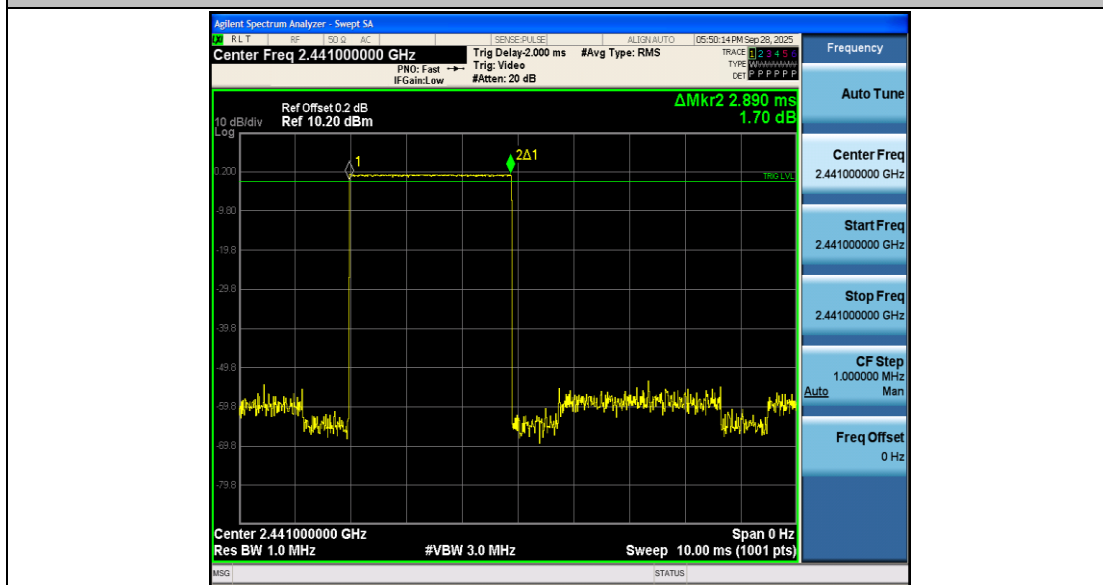
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	315	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.640	158	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.890	109	0.315	≤0.4	PASS
2DH1	Ant1	Hop	0.390	316	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.640	156	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.900	107	0.31	≤0.4	PASS

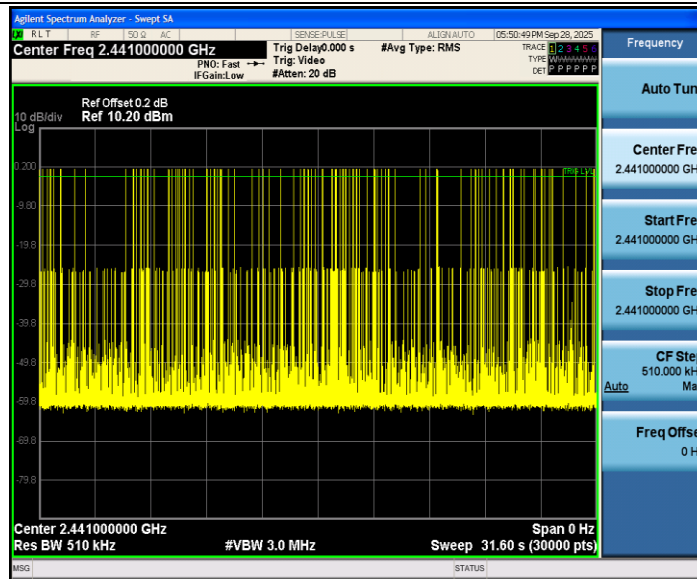
Test Graphs



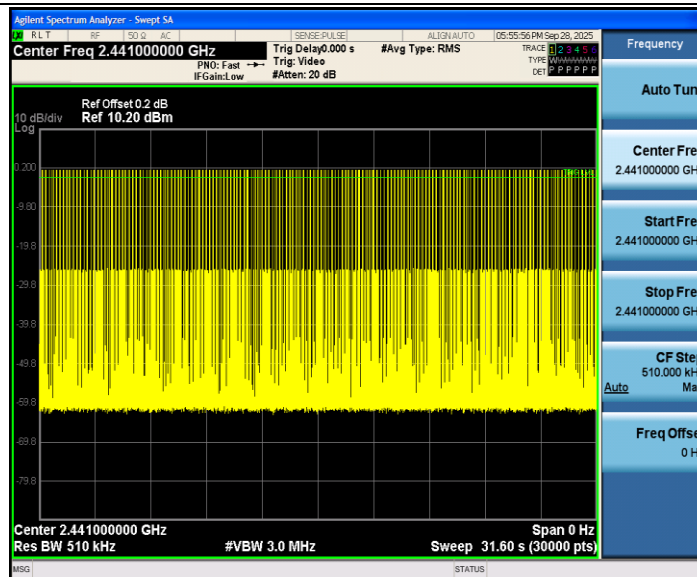
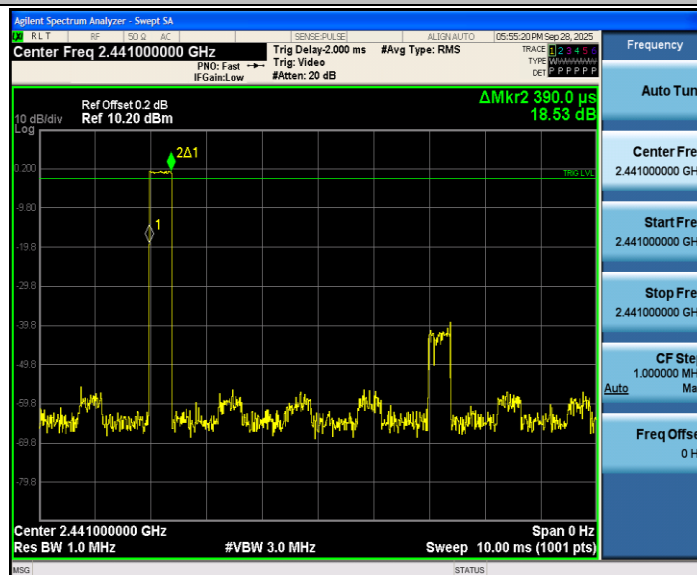


DH5_Ant1_Hop

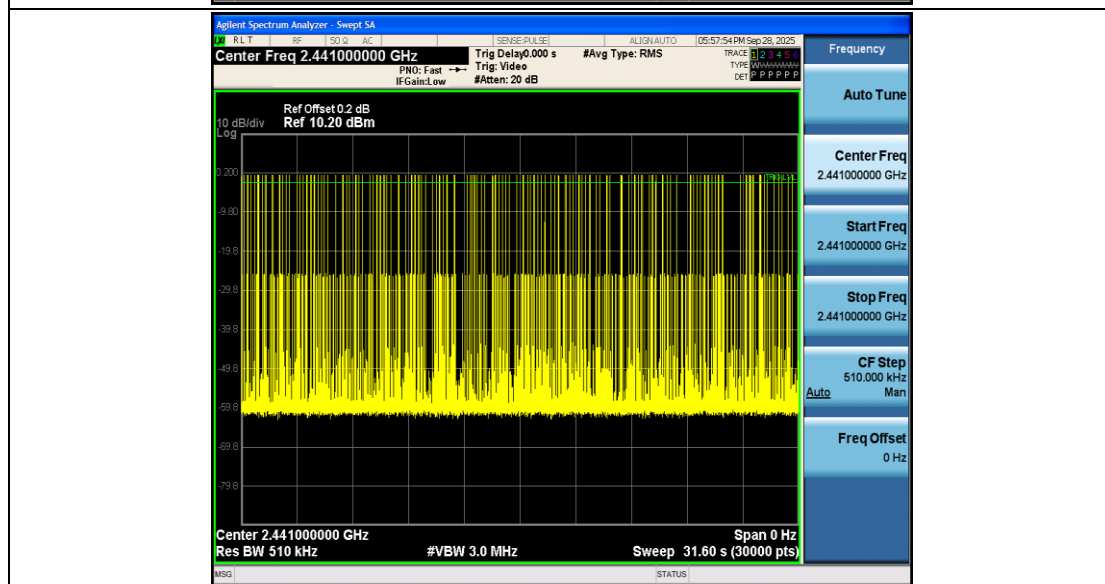
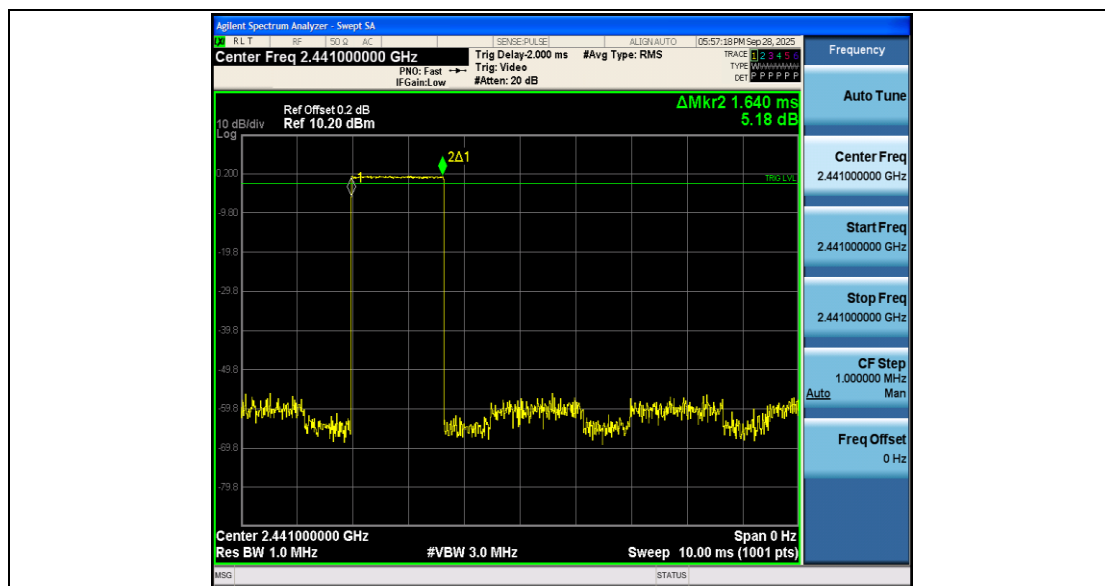




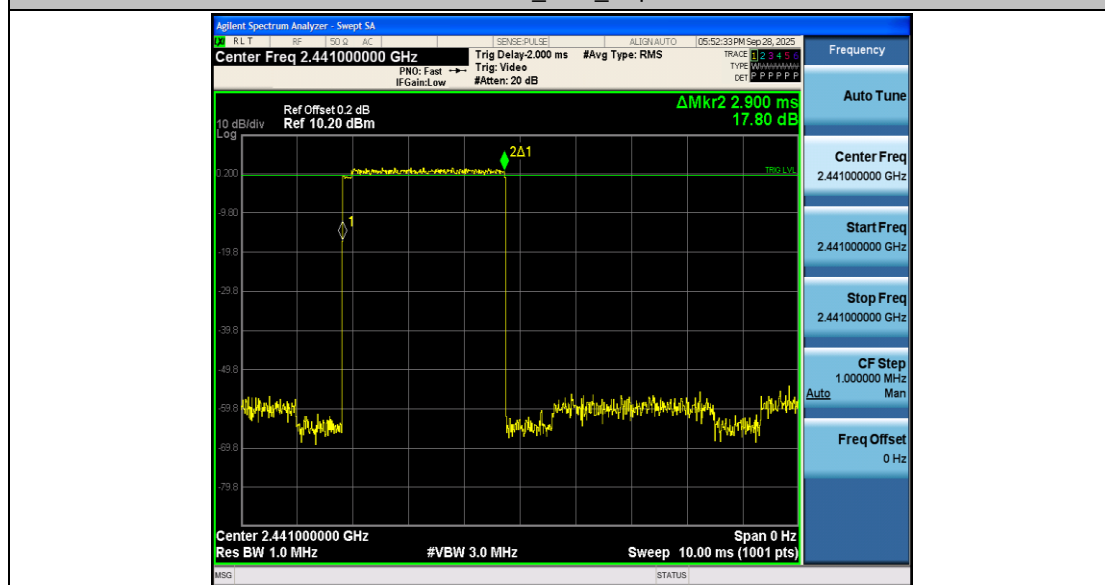
2DH1_Ant1_Hop

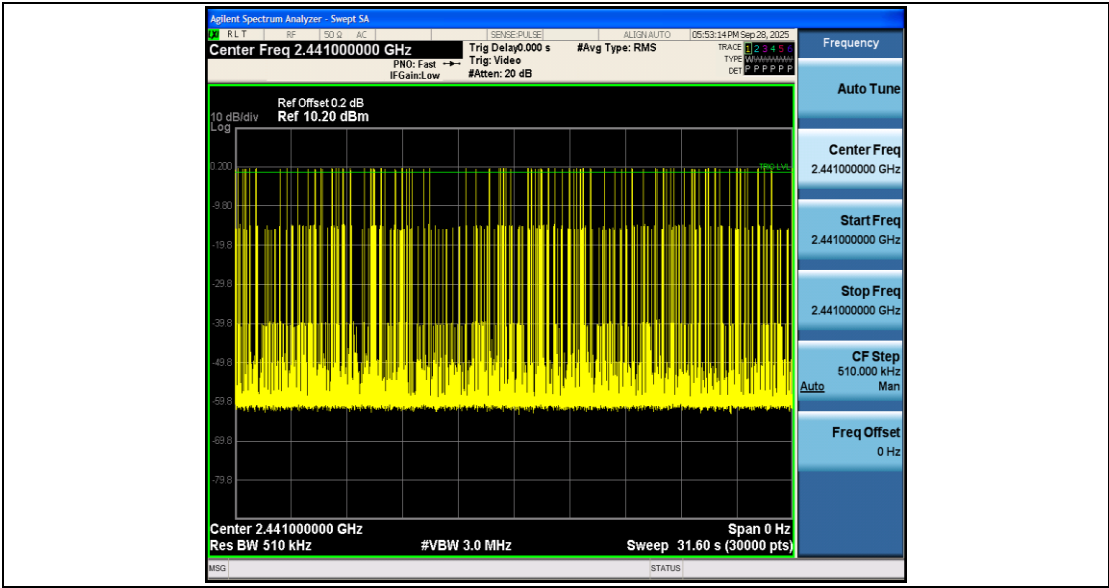


2DH3_Ant1_Hop



2DH5_Ant1_Hop





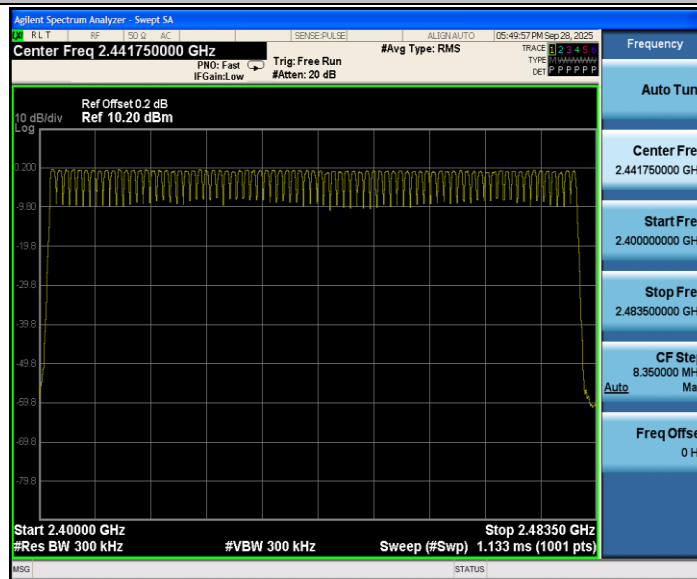
Appendix F: Number of hopping channels

Test Result

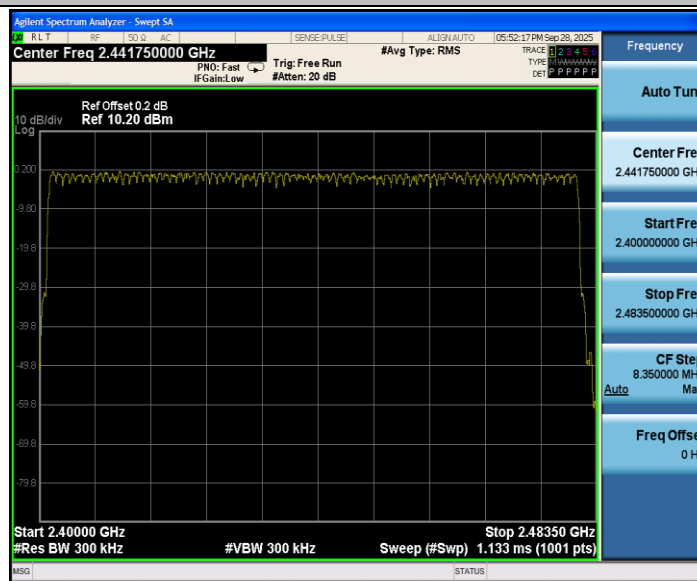
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop

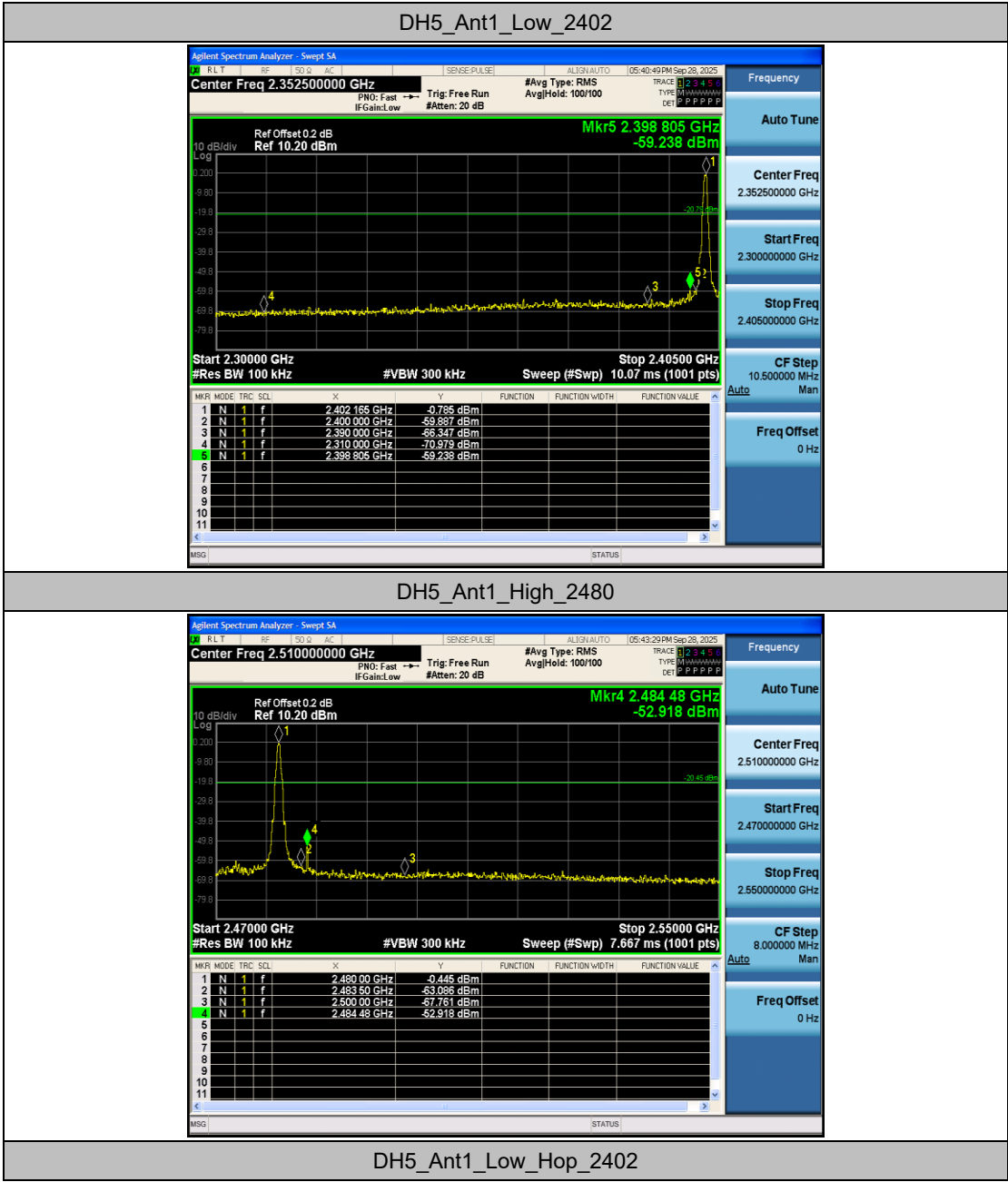


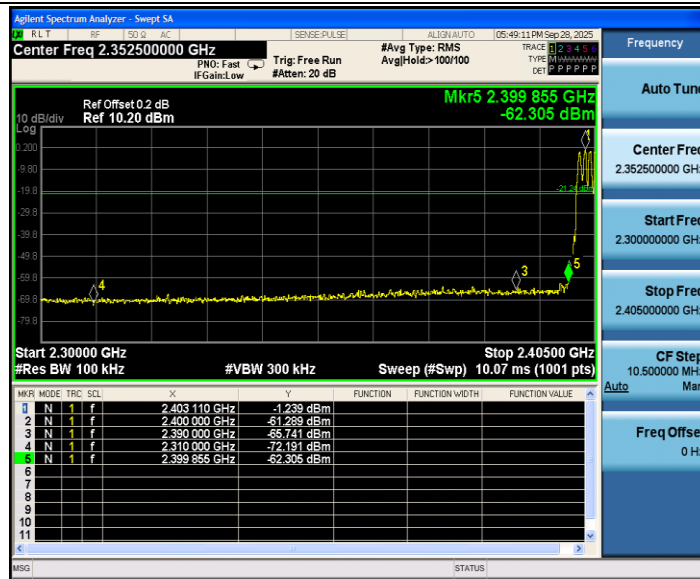
Appendix G: Band edge measurements

Test Result

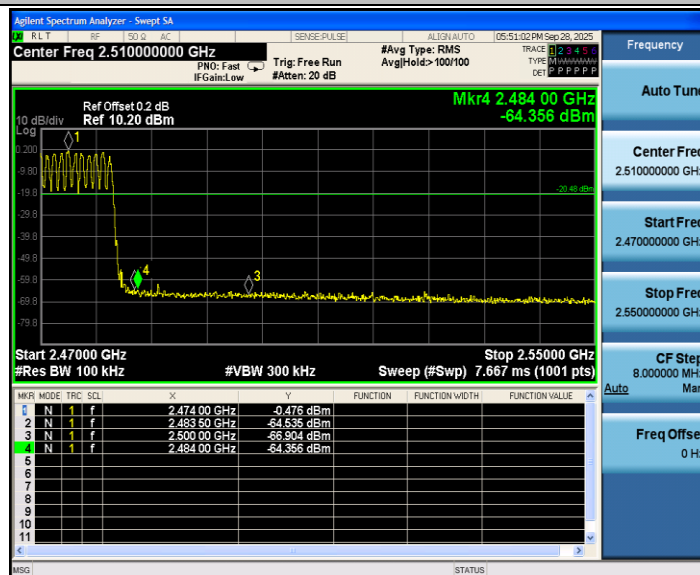
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.79	-59.24	≤-20.79	PASS
		High	2480	-0.45	-52.92	≤-20.45	PASS
		Low	Hop_2402	-1.24	-62.31	≤-21.24	PASS
		High	Hop_2480	-0.48	-64.36	≤-20.48	PASS
2DH5	Ant1	Low	2402	-3.02	-51.92	≤-23.02	PASS
		High	2480	-1.19	-52.26	≤-21.19	PASS
		Low	Hop_2402	-1.39	-54.53	≤-21.39	PASS
		High	Hop_2480	-2.66	-62.98	≤-22.66	PASS

Test Graphs

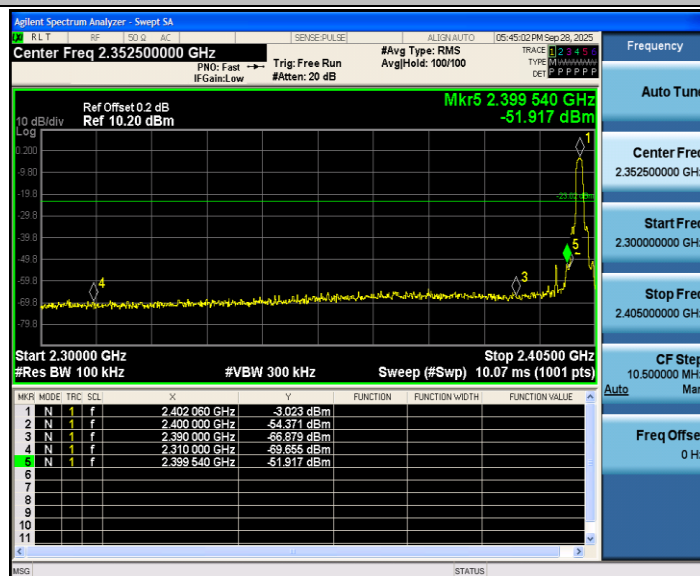




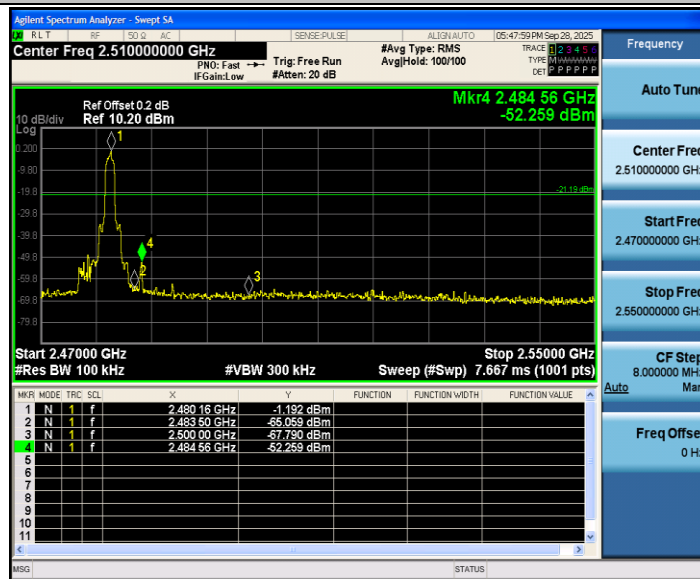
DH5_Ant1_High_Hop_2480



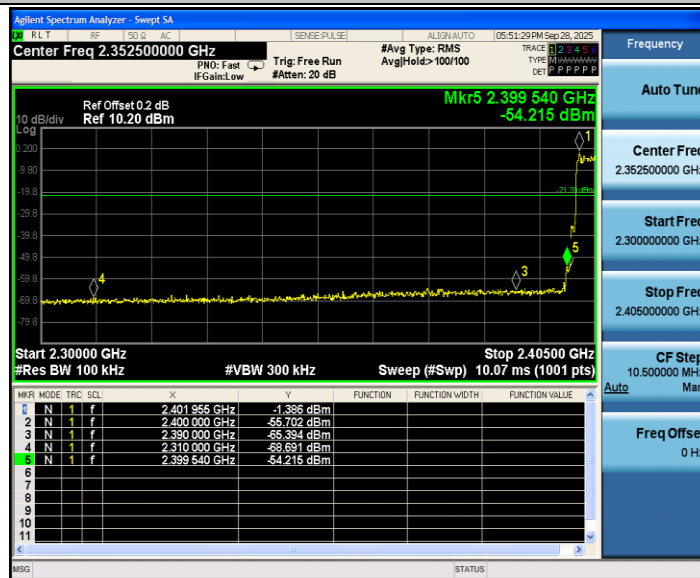
2DH5_Ant1_Low_2402



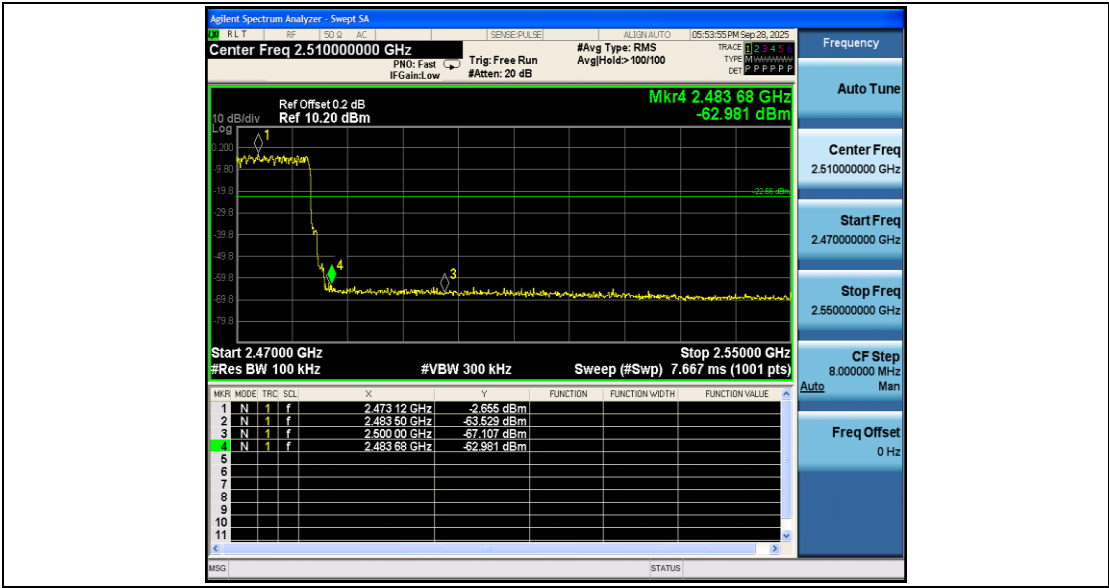
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

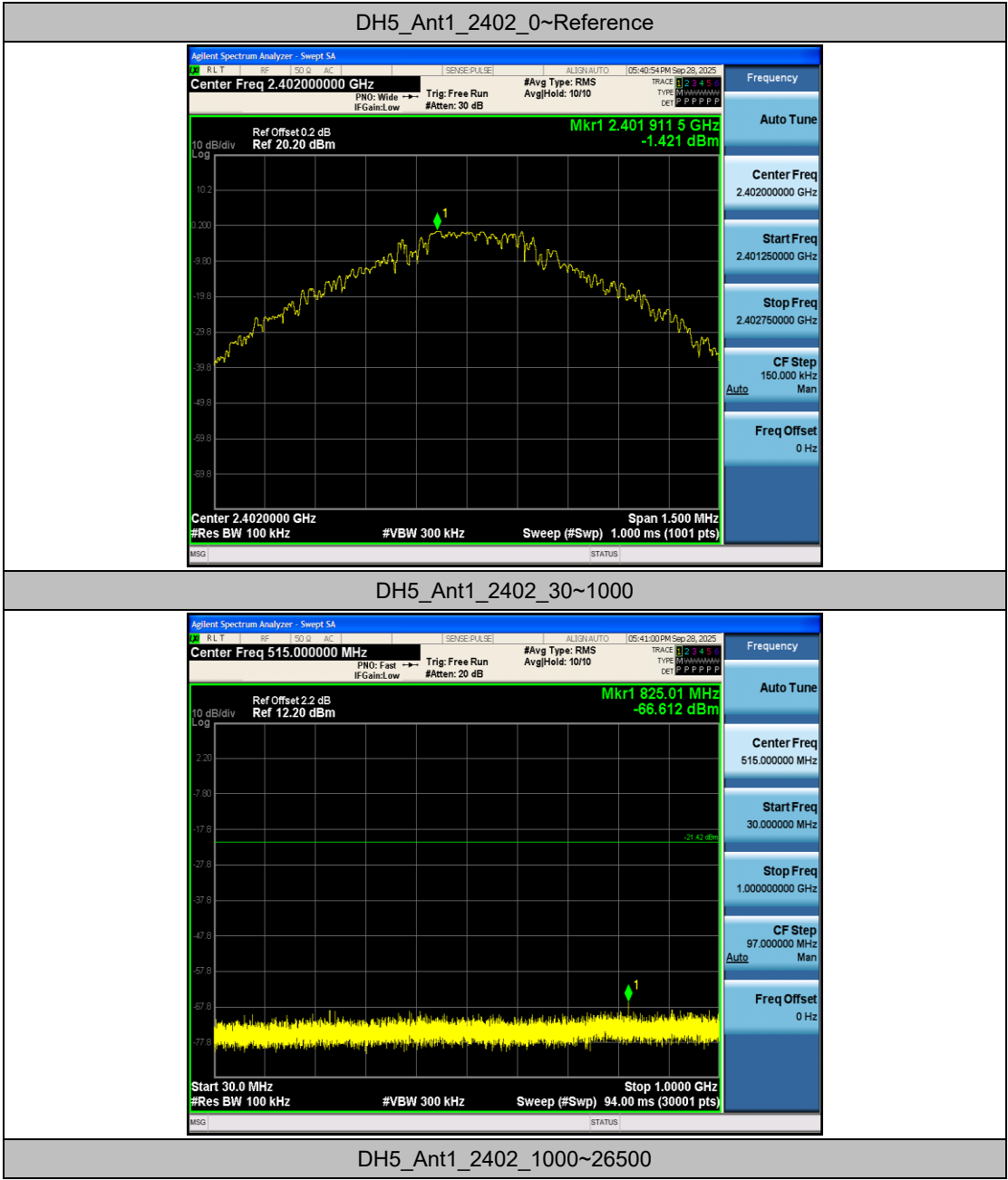


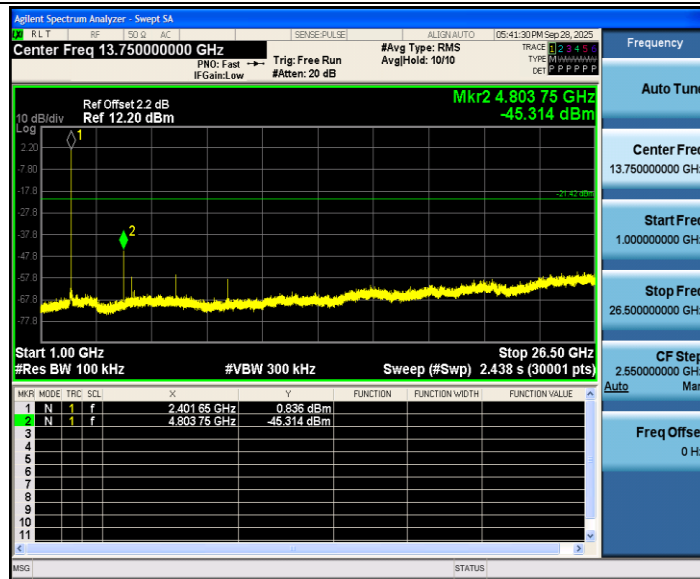
Appendix H: Conducted Spurious Emission

Test Result

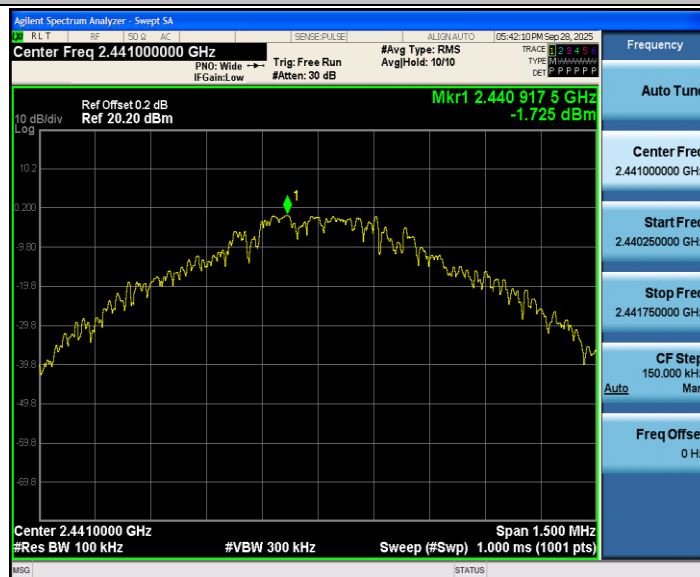
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-66.61	≤-21.42	PASS
			1000~26500	-1.42	-45.31	≤-21.42	PASS
		2441	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-68.39	≤-21.73	PASS
			1000~26500	-1.73	-42.77	≤-21.73	PASS
		2480	Reference	-0.66	-0.66	---	PASS
			30~1000	-0.66	-67.74	≤-20.66	PASS
			1000~26500	-0.66	-45.11	≤-20.66	PASS
2DH5	Ant1	2402	Reference	-0.28	-0.28	---	PASS
			30~1000	-0.28	-68.11	≤-20.28	PASS
			1000~26500	-0.28	-42.09	≤-20.28	PASS
		2441	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-56.39	≤-21.3	PASS
			1000~26500	-1.30	-44.8	≤-21.3	PASS
		2480	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-68.26	≤-21.24	PASS
			1000~26500	-1.24	-46.26	≤-21.24	PASS

Test Graphs

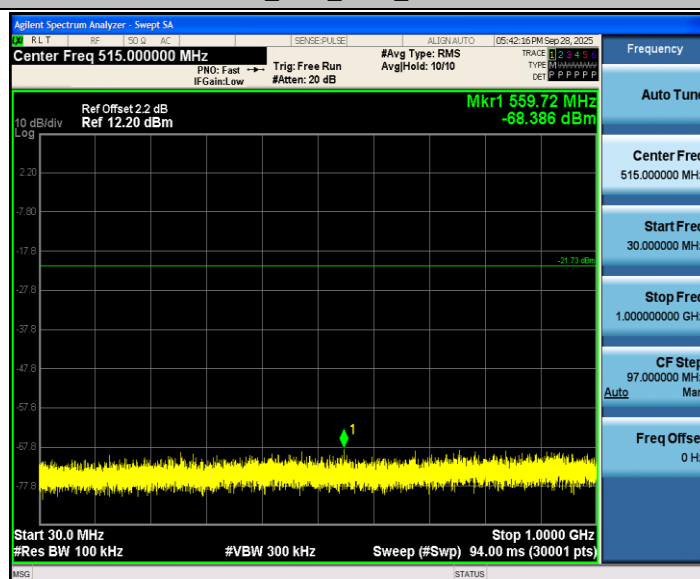




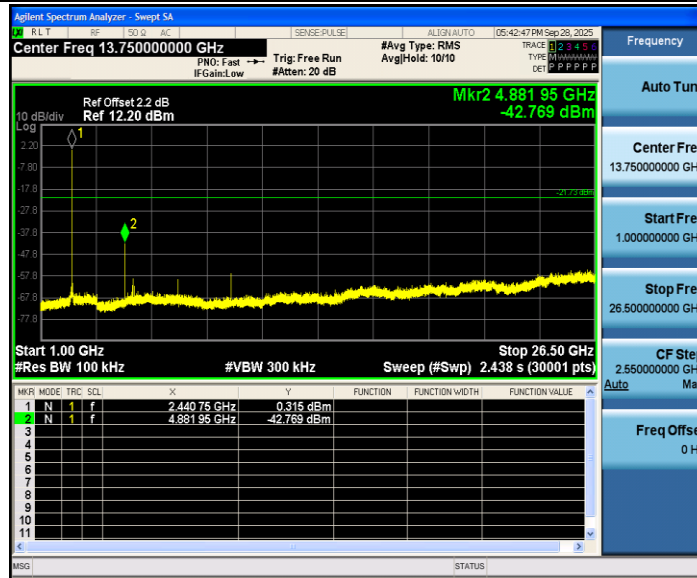
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



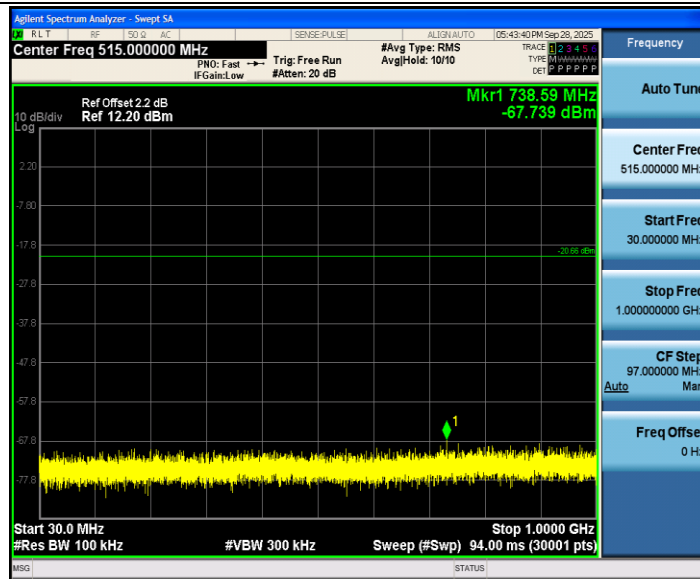
DH5_Ant1_2441_1000~26500



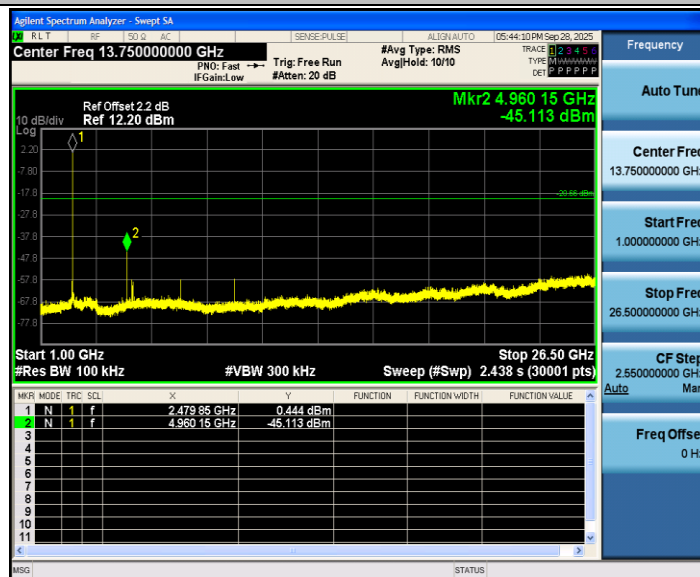
DH5_Ant1_2480_0~Reference



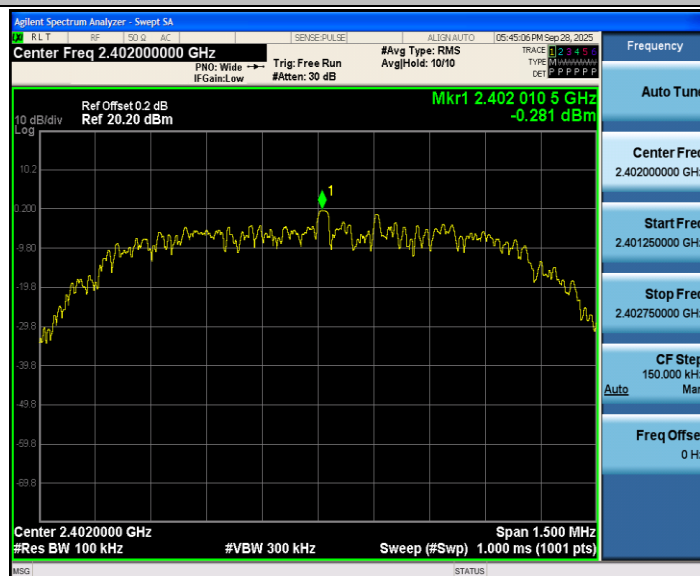
DH5_Ant1_2480_30~1000



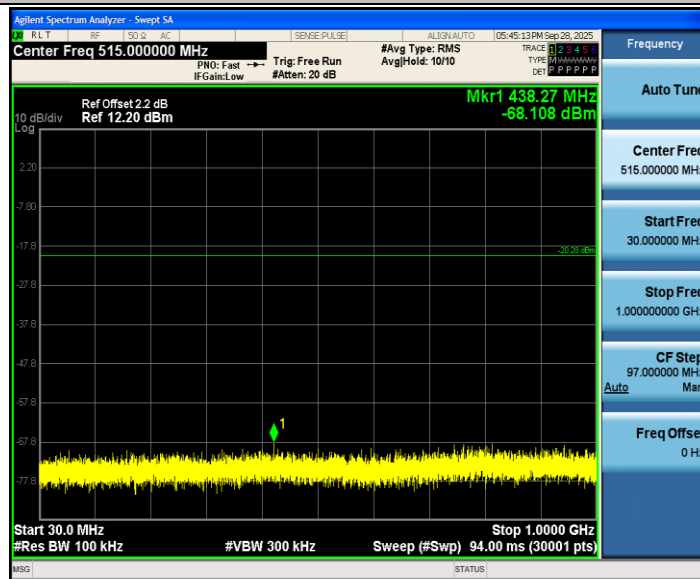
DH5_Ant1_2480_1000~26500



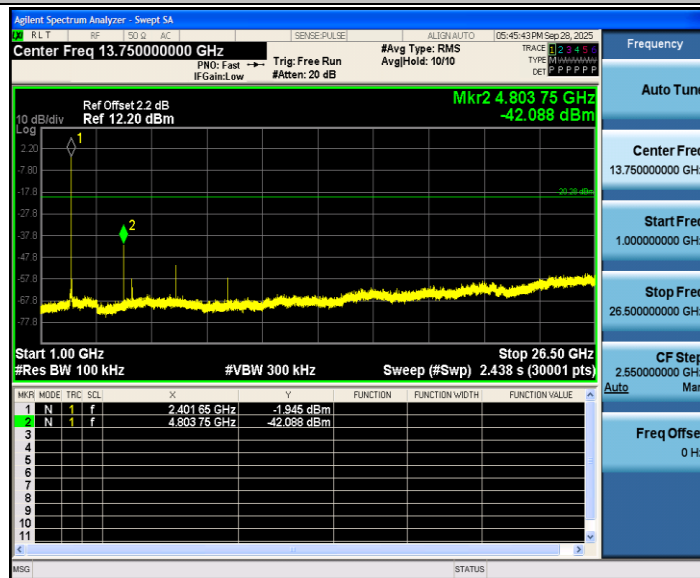
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



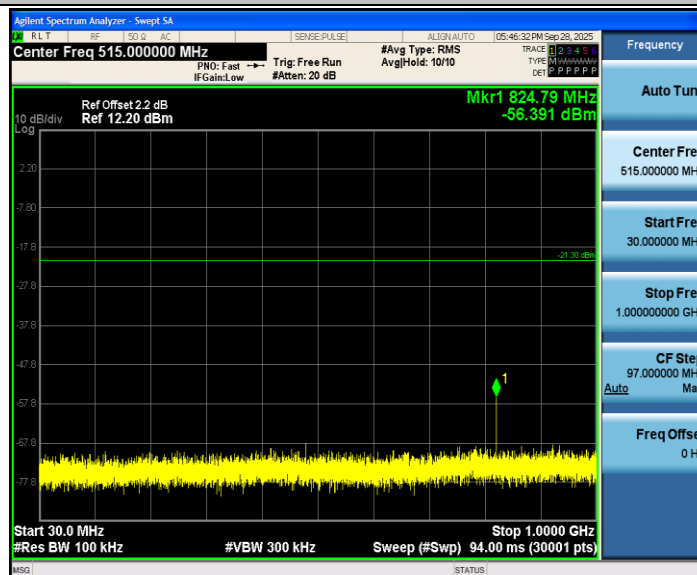
2DH5_Ant1_2402_1000~26500



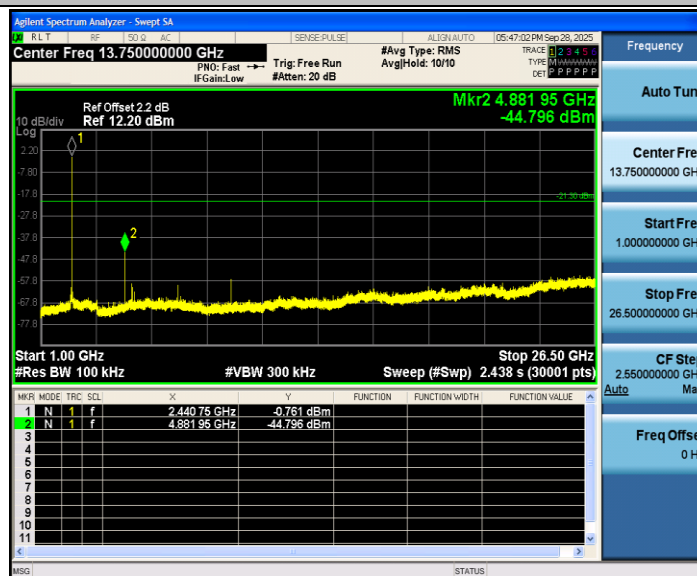
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



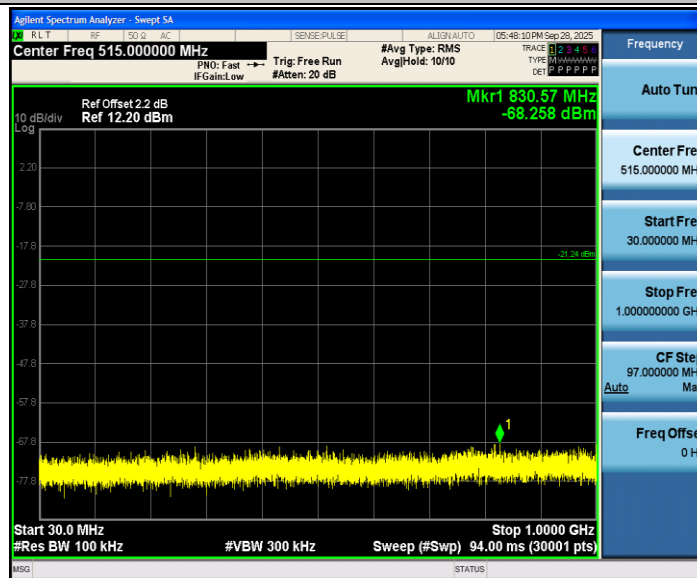
2DH5_Ant1_2441_1000~26500



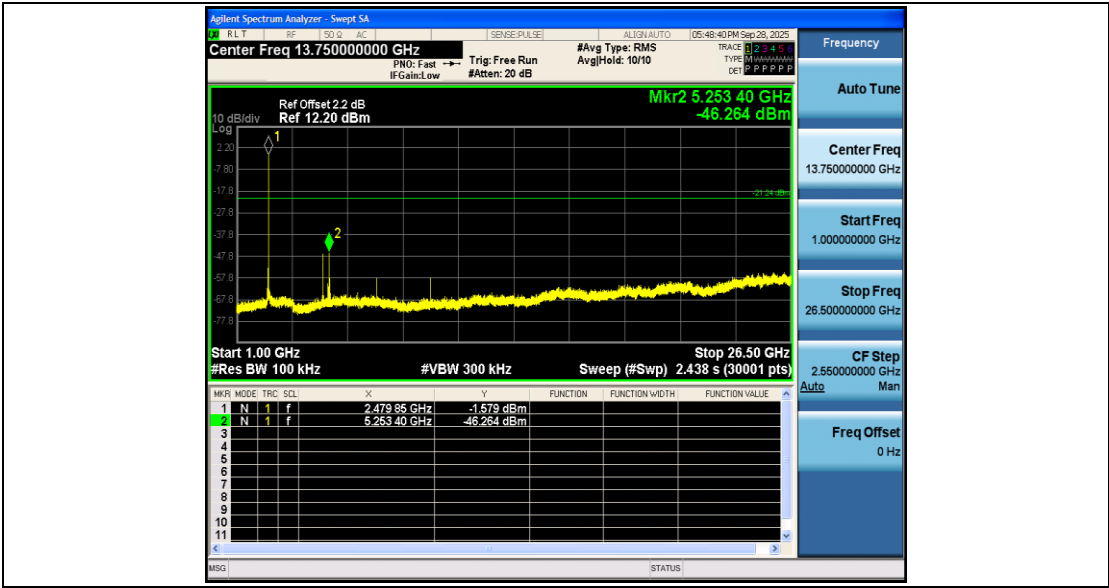
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

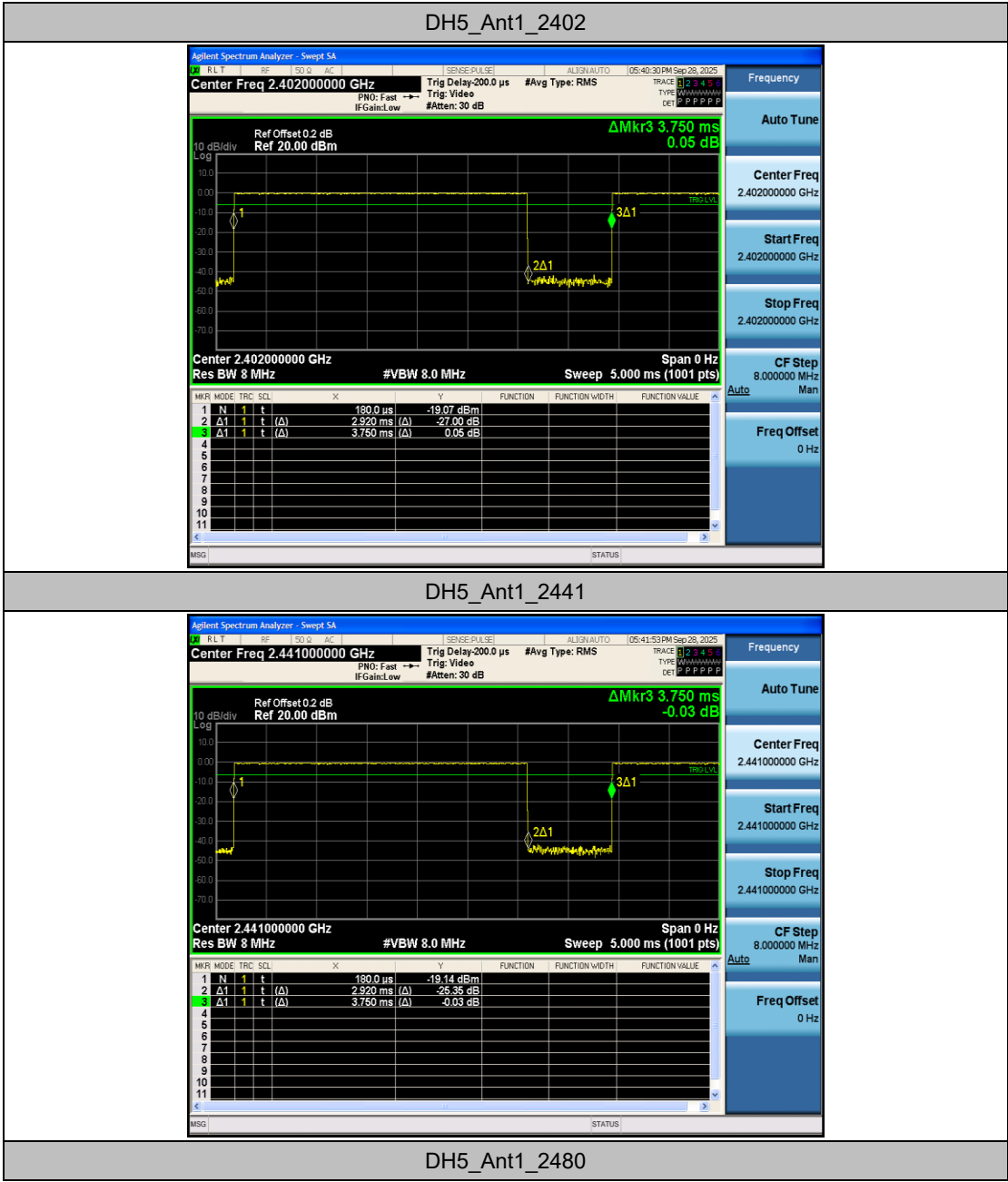


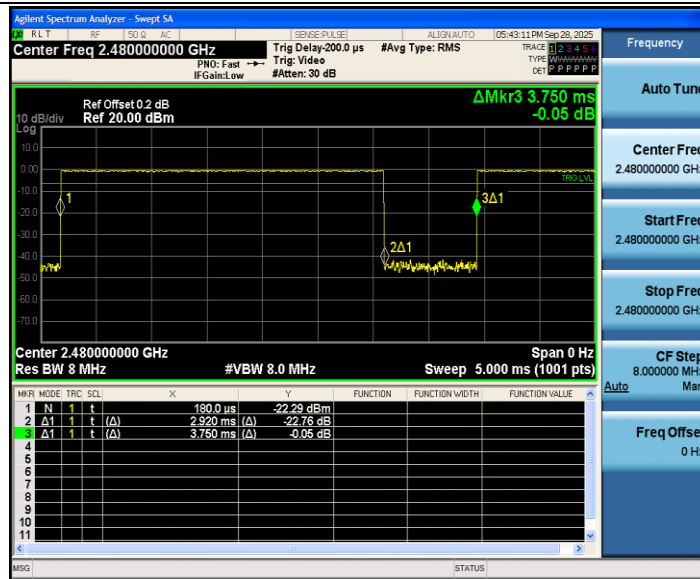
Appendix I: Duty Cycle

Test Result

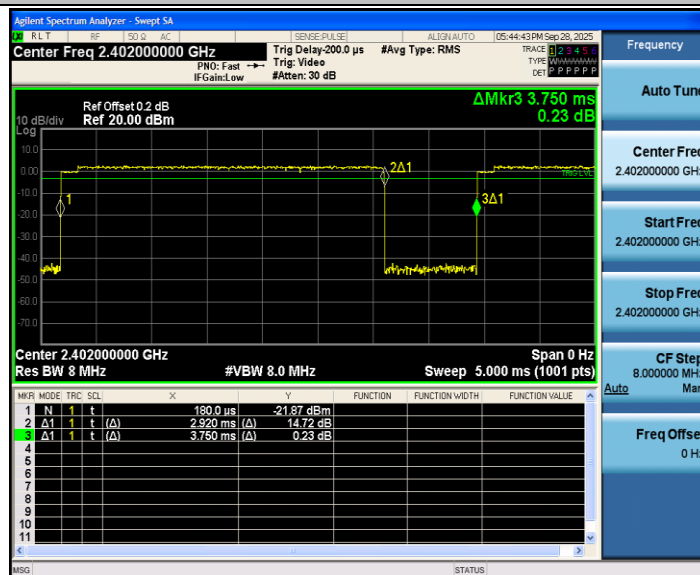
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---

Test Graphs

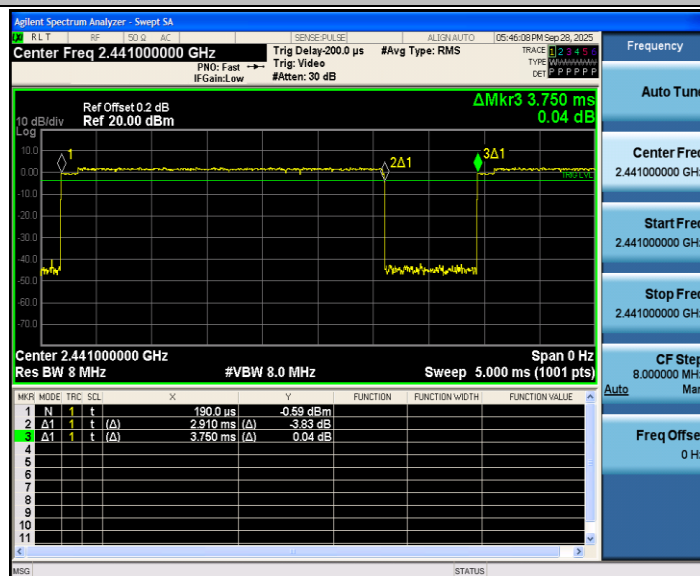




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

