

FCC Appendix RF Test Data for BT

FCC ID : 2BYPP-THETRUNKAC1

Company : Zentron International Limited

EUT : TheTrunk AC1 earbuds

Model Number : TheTrunk AC1

Report No. : CTA26080500801

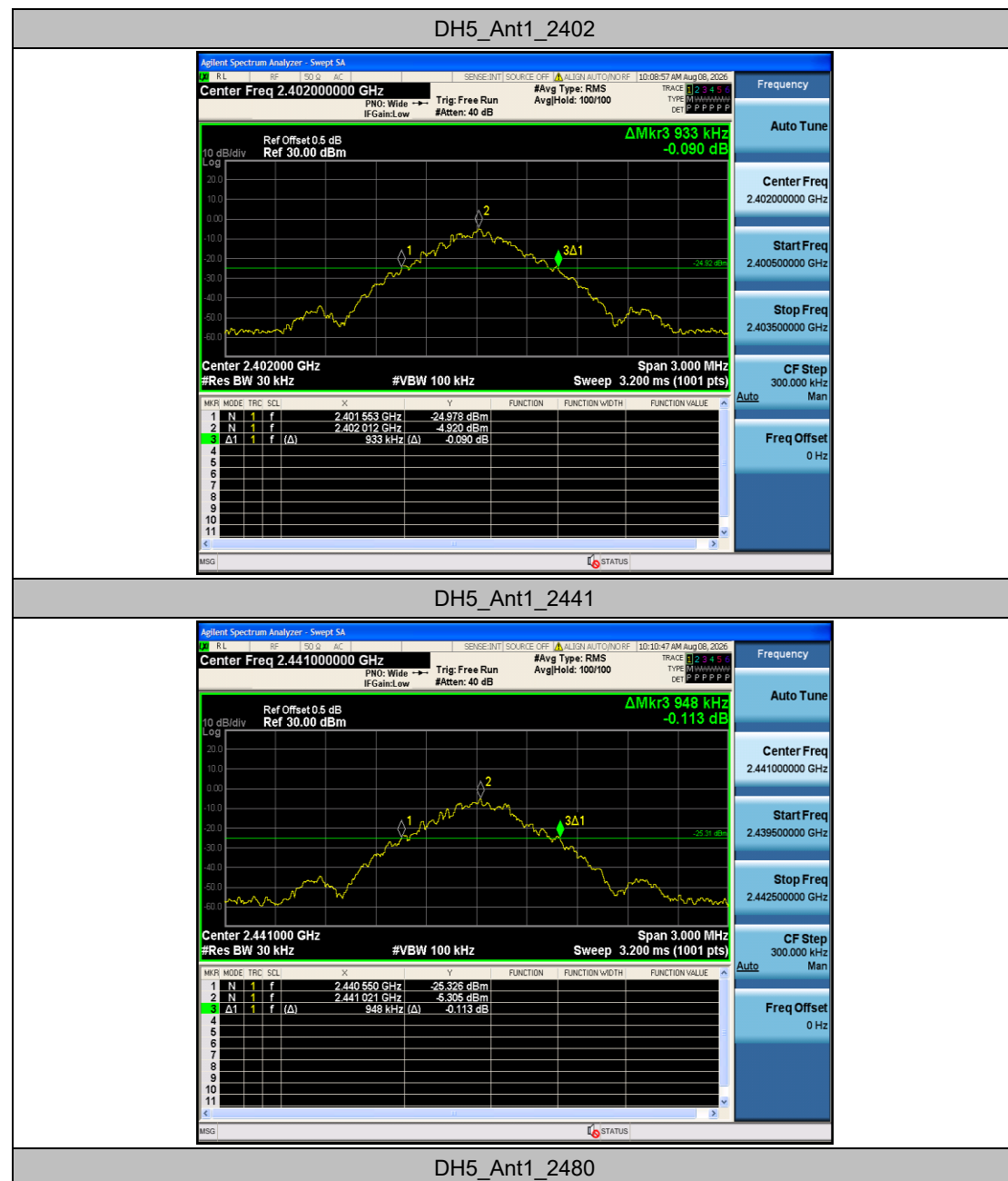
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.933	2401.553	2402.486	---	---
		2441	0.948	2440.550	2441.498	---	---
		2480	0.963	2479.541	2480.504	---	---
2DH5	Ant1	2402	1.335	2401.340	2402.675	---	---
		2441	1.320	2440.346	2441.666	---	---
		2480	1.314	2479.355	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

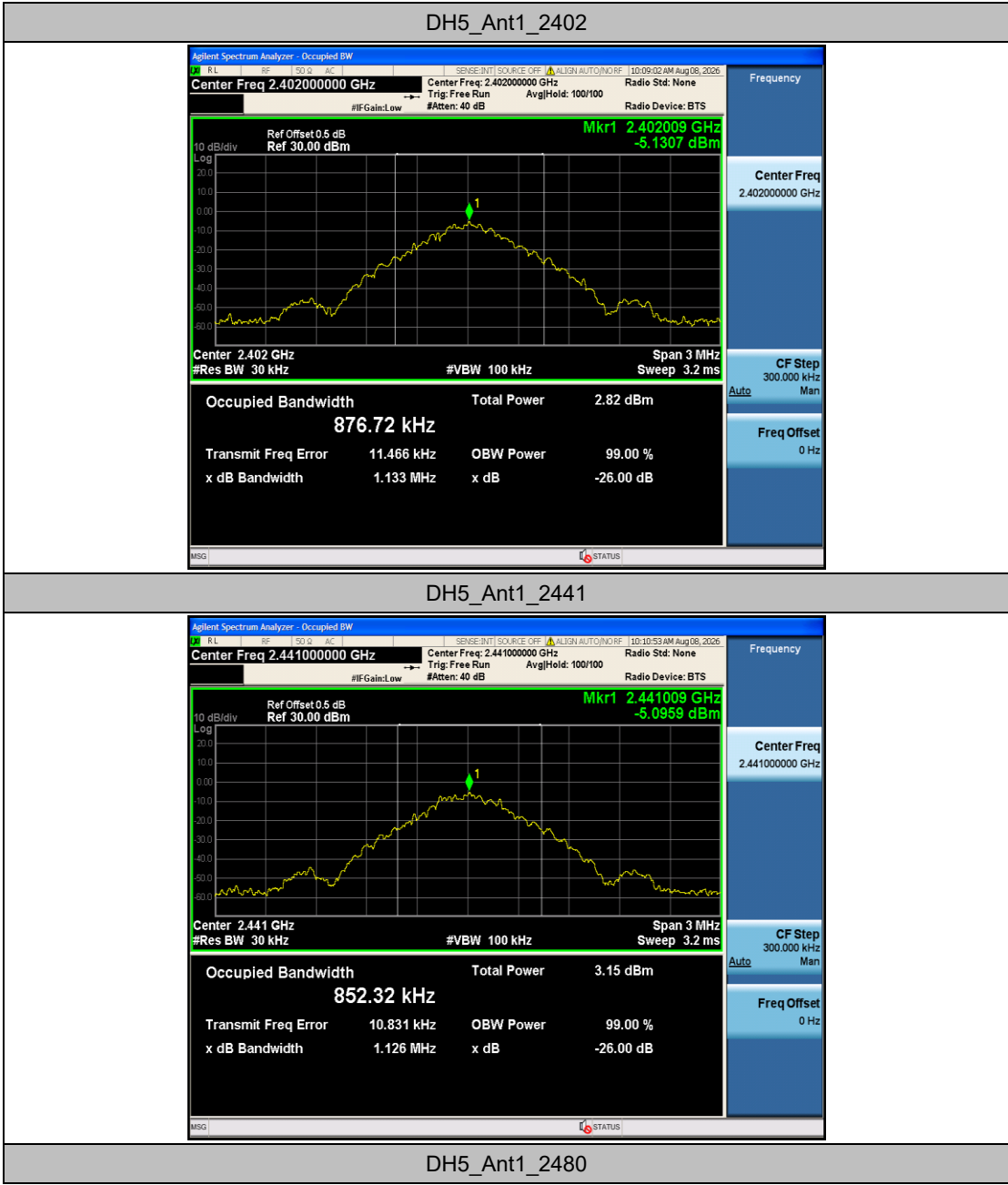


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87672	2401.5731	2402.4498	---	---
		2441	0.85232	2440.5847	2441.4370	---	---
		2480	0.85685	2479.5803	2480.4371	---	---
2DH5	Ant1	2402	1.1848	2401.4172	2402.6020	---	---
		2441	1.1880	2440.4122	2441.6002	---	---
		2480	1.1954	2479.4119	2480.6073	---	---

Test Graphs

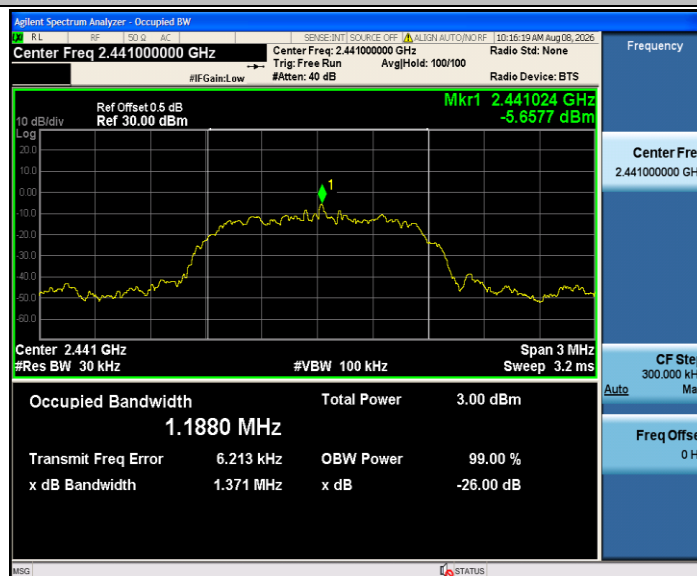




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

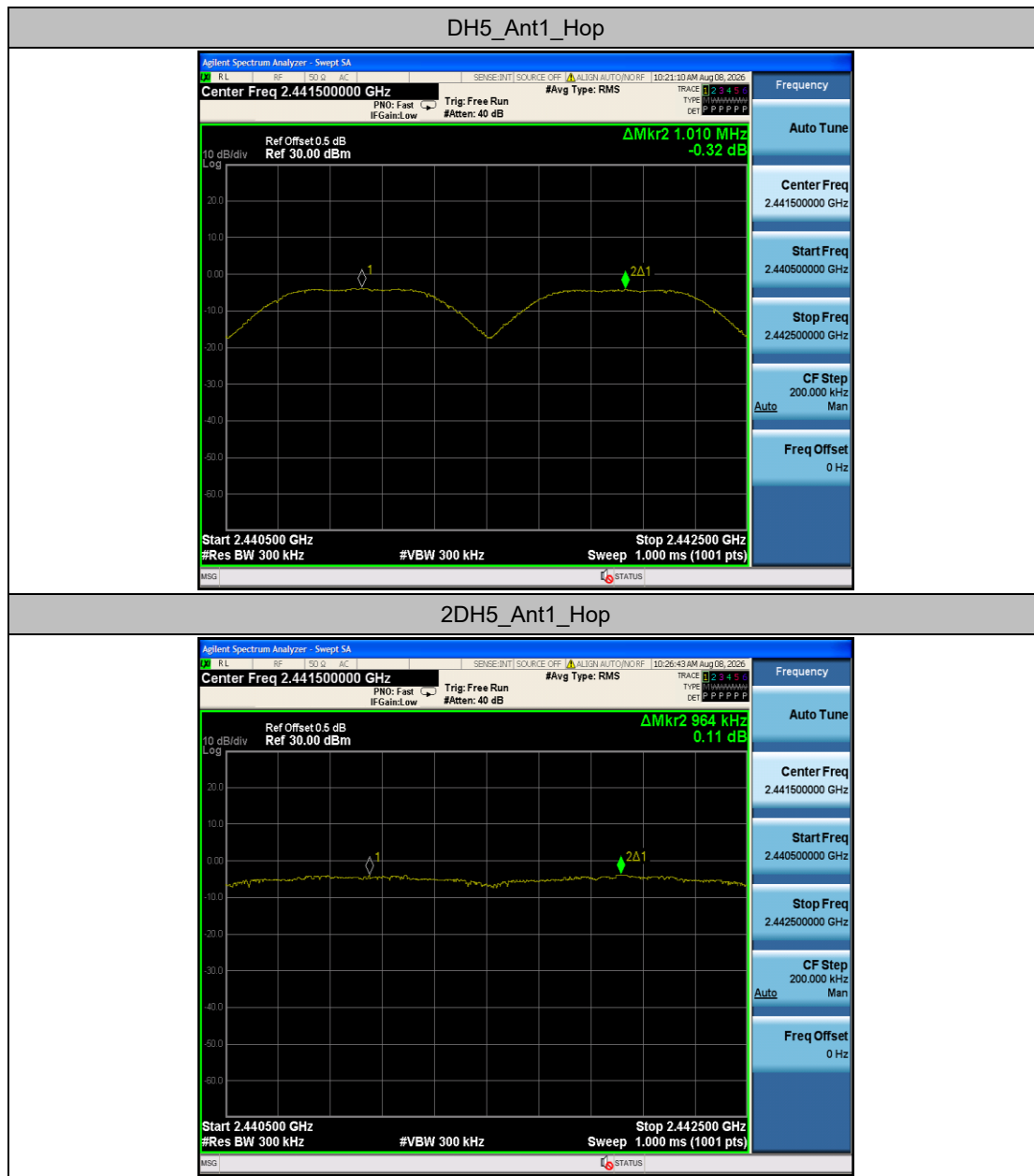
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.40	≤20.97	PASS
		2441	-3.44	≤20.97	PASS
		2480	-3.82	≤20.97	PASS
2DH5	Ant1	2402	-0.78	≤20.97	PASS
		2441	-0.96	≤20.97	PASS
		2480	-1.28	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥ 0.963	PASS
2DH5	Ant1	Hop	0.964	≥ 0.890	PASS

Test Graphs

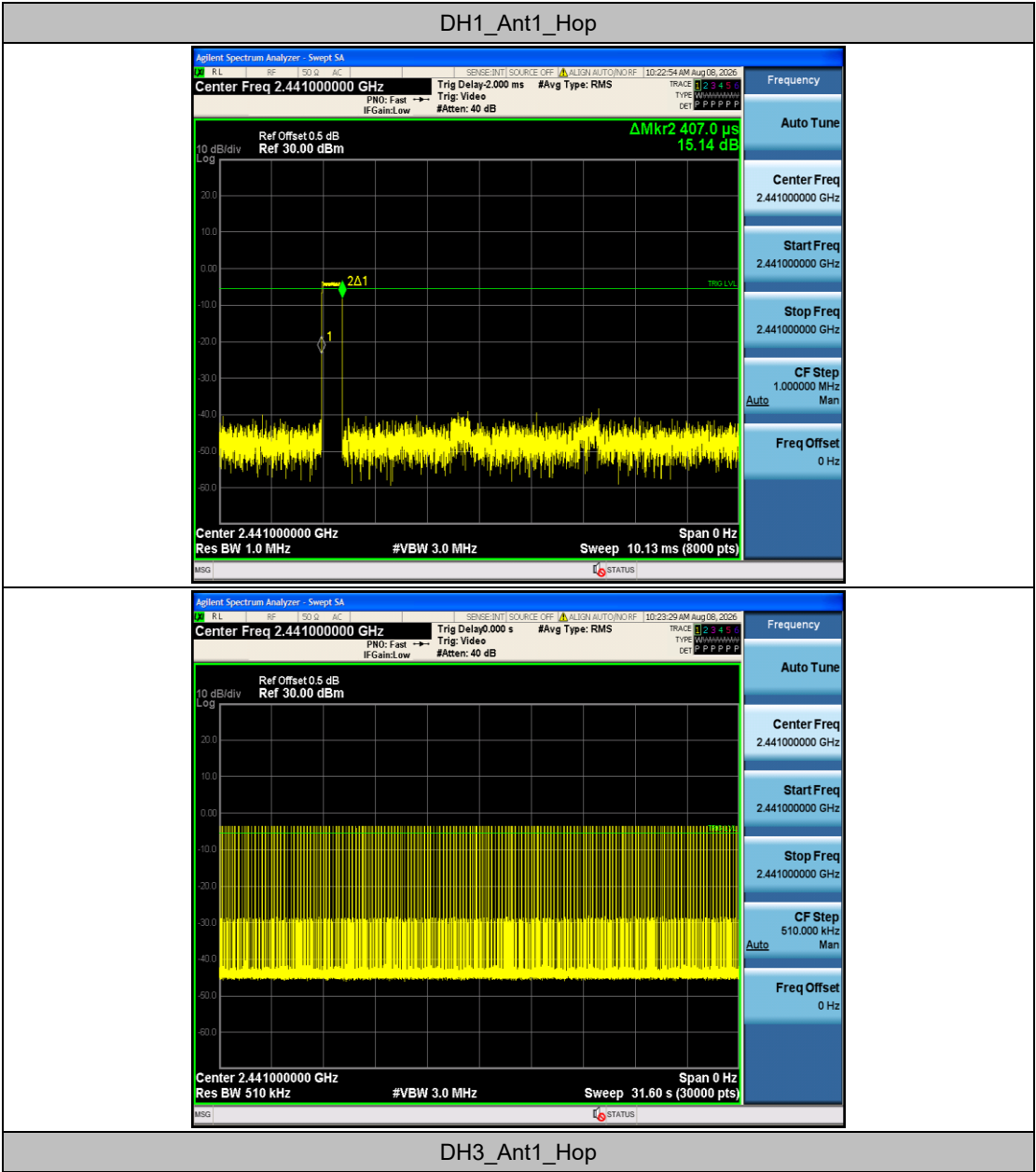


Appendix E: Time of occupancy

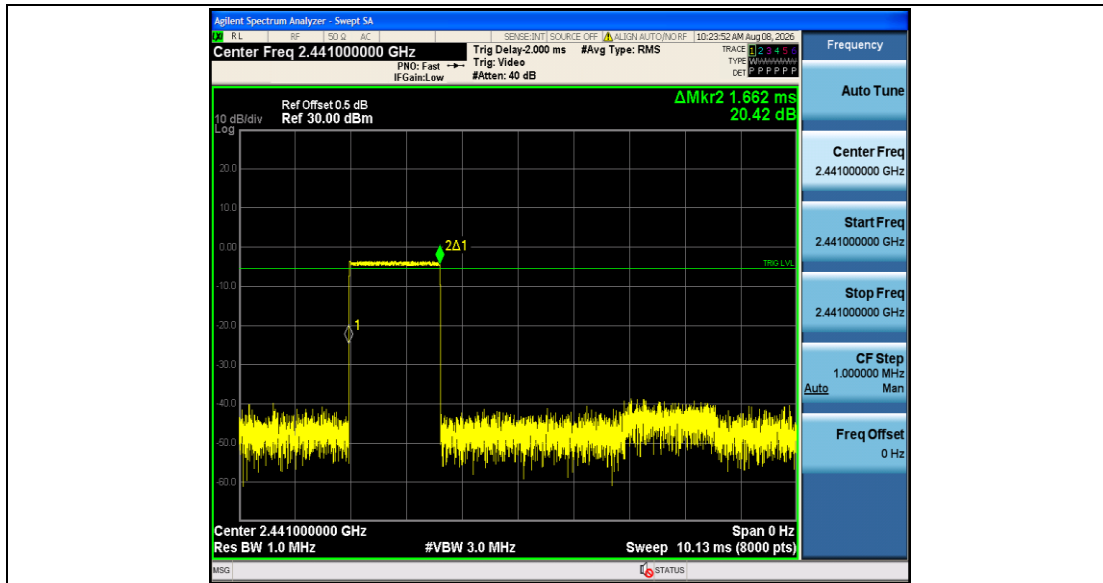
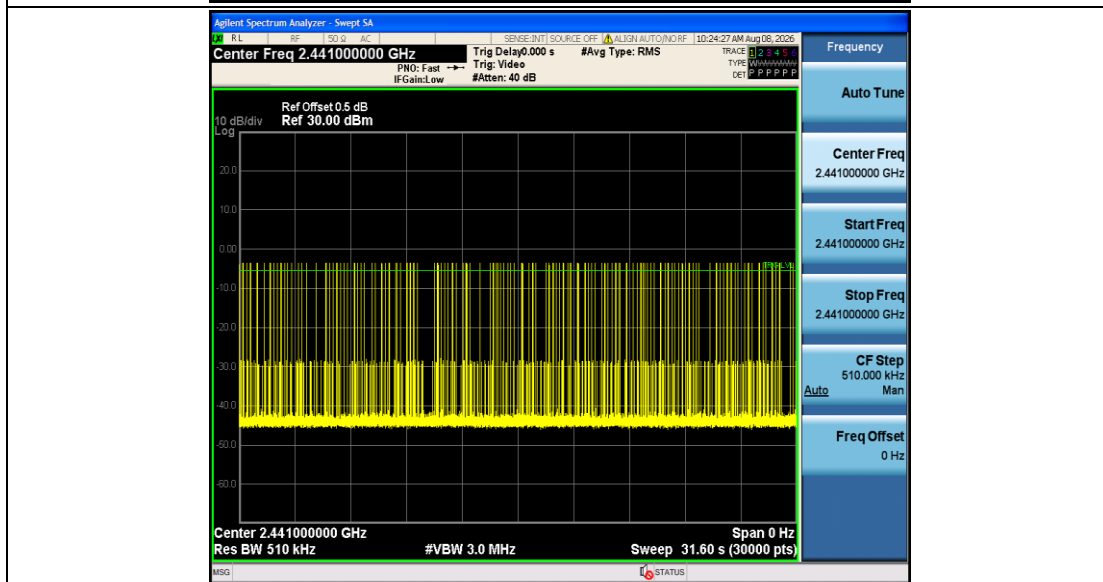
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	314	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.662	160	0.266	≤0.4	PASS
DH5	Ant1	Hop	2.910	100	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.415	315	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.668	165	0.275	≤0.4	PASS
2DH5	Ant1	Hop	2.916	114	0.332	≤0.4	PASS

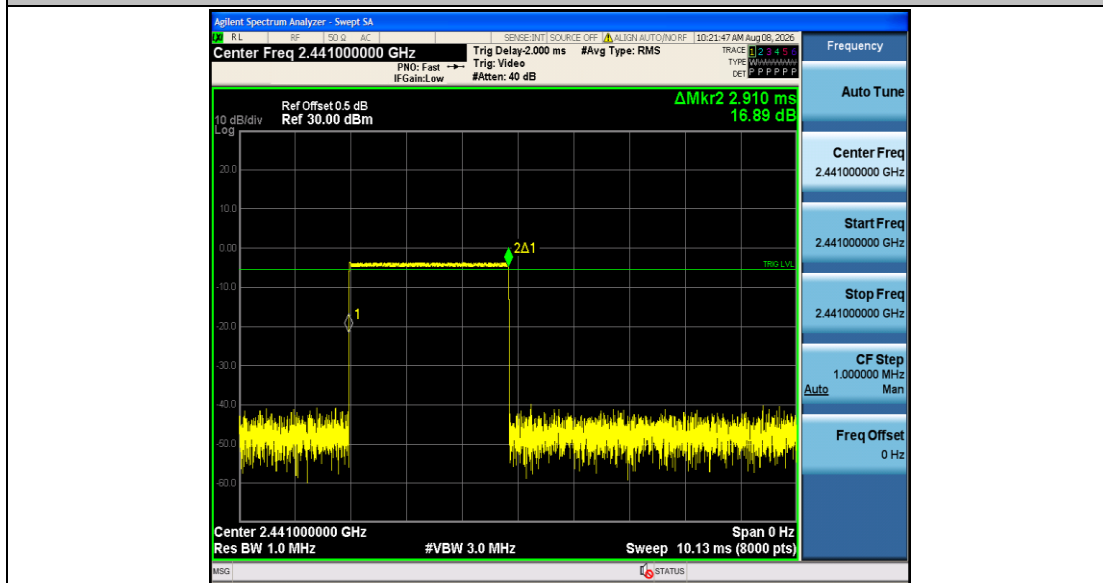
Test Graphs

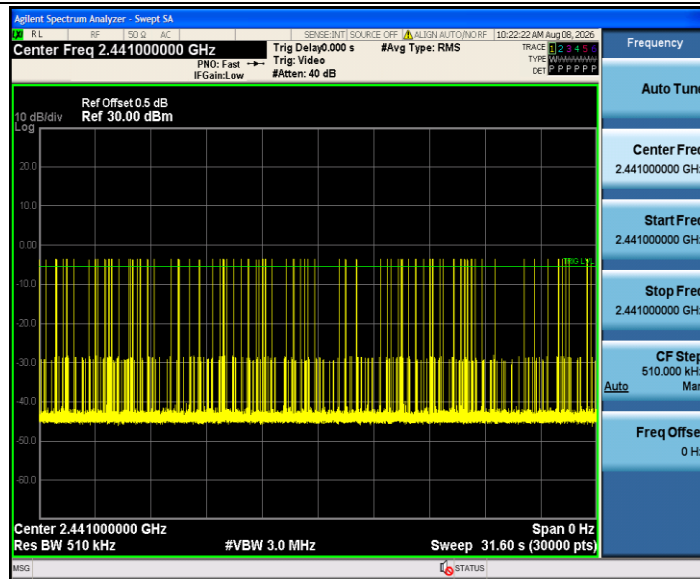


DH3_Ant1_Hop

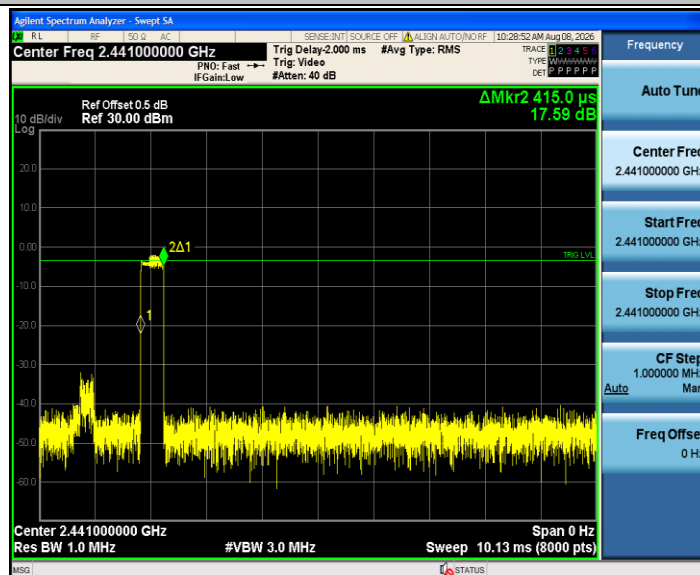
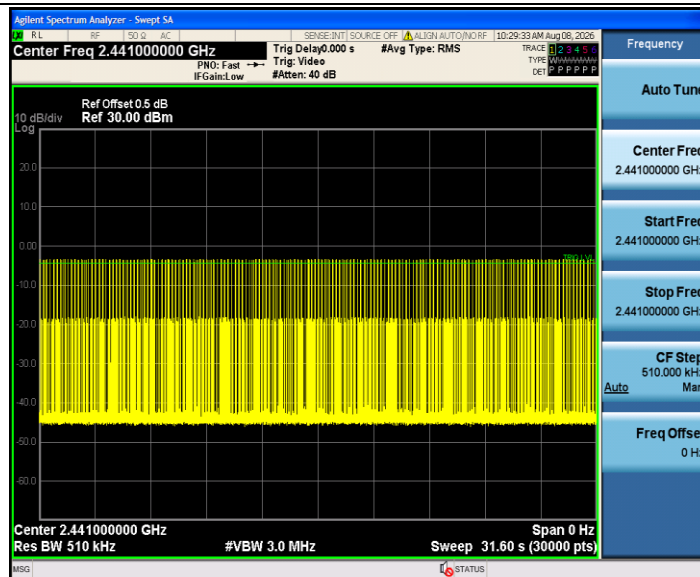


DH5_Ant1_Hop

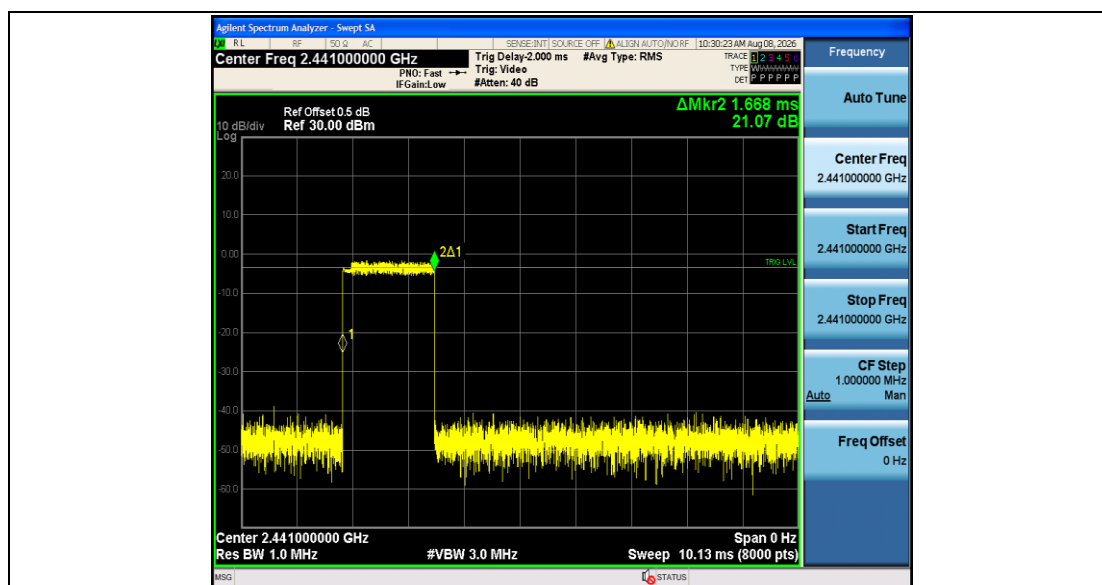
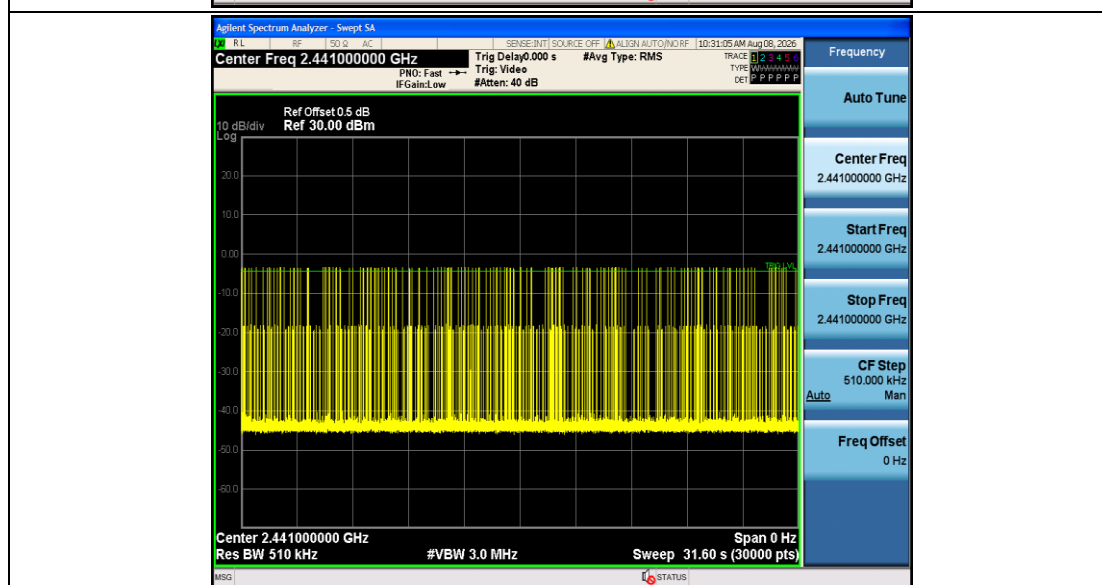




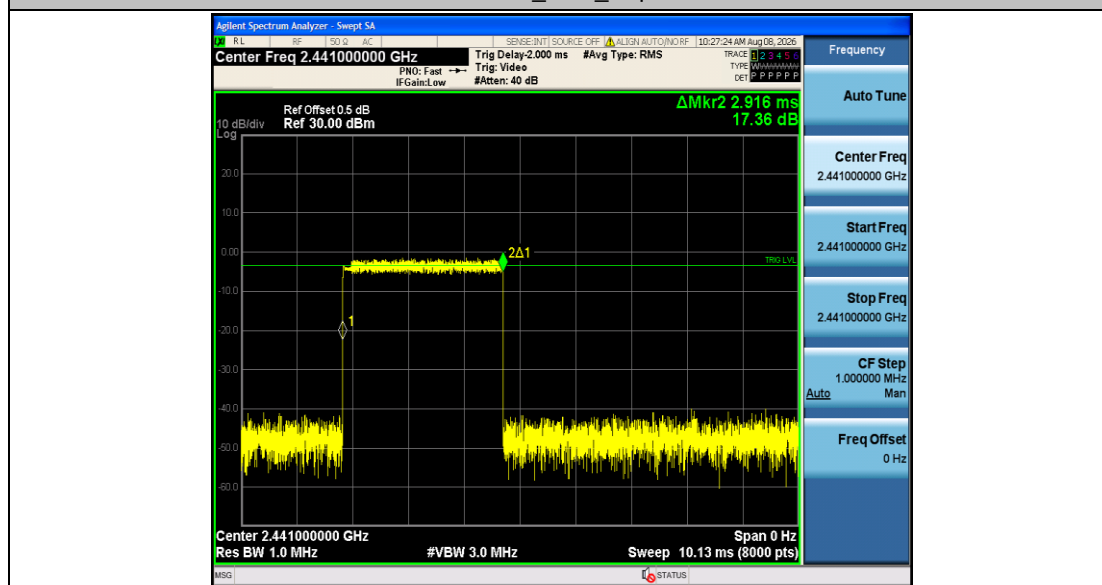
2DH1_Ant1_Hop

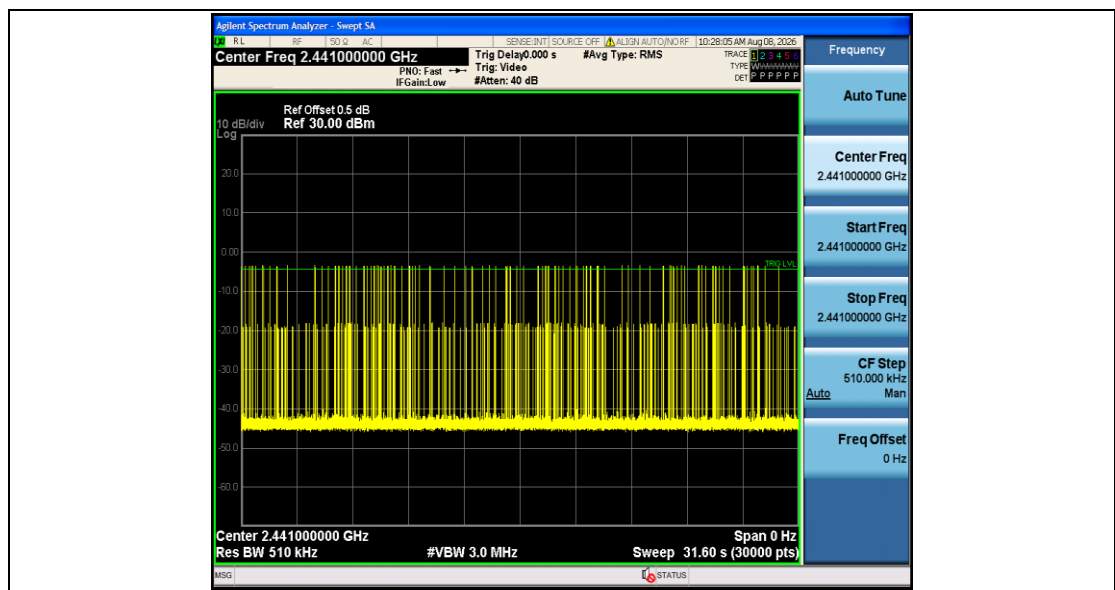


2DH3_Ant1_Hop



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

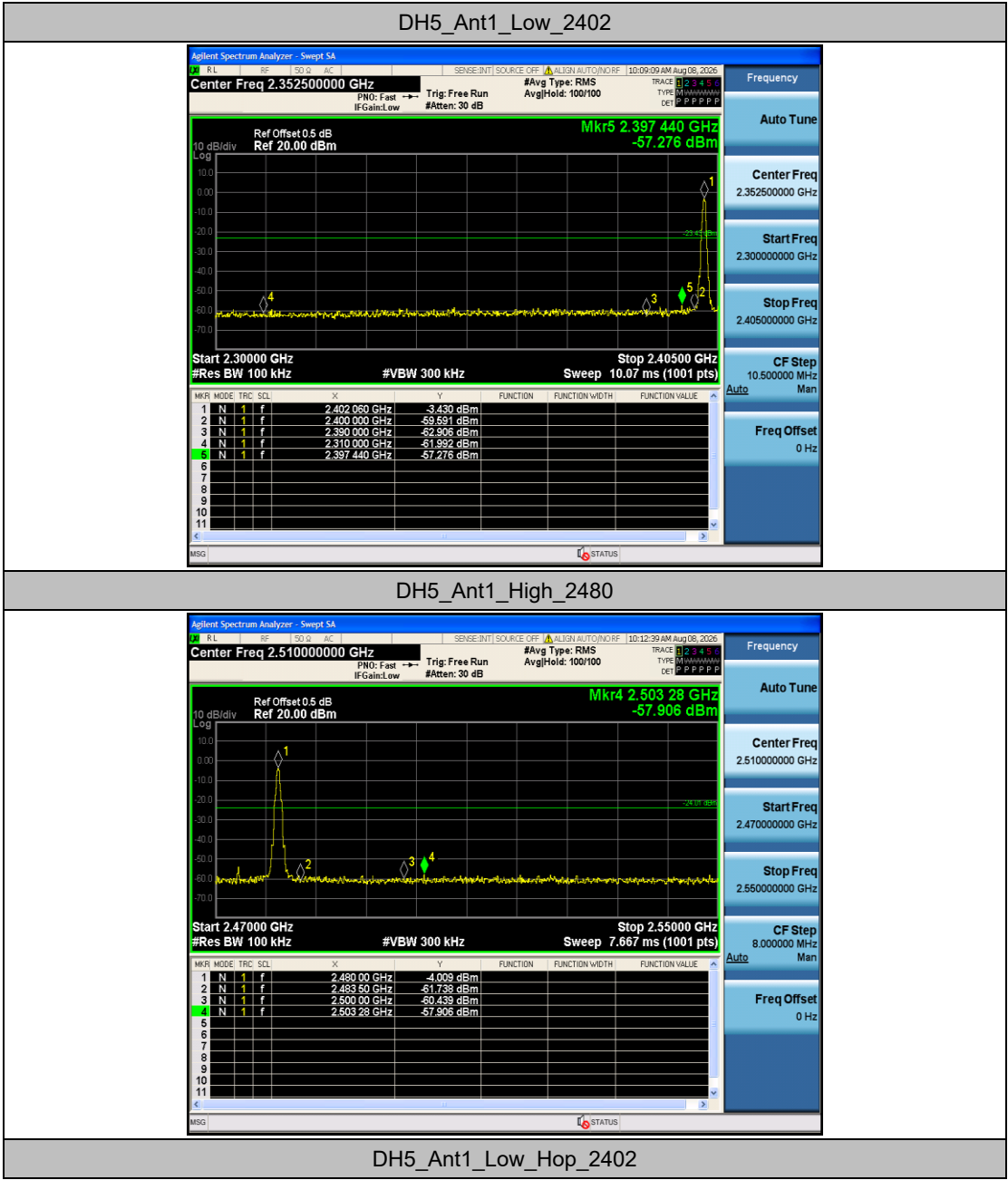


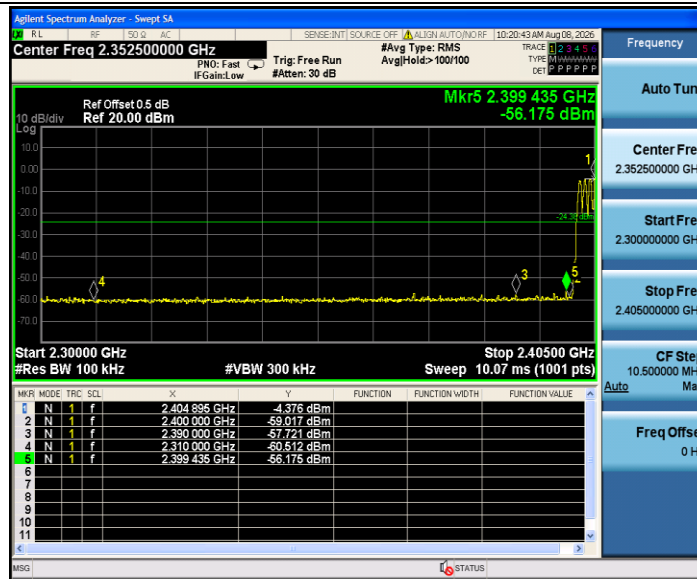
Appendix G: Band edge measurements

Test Result

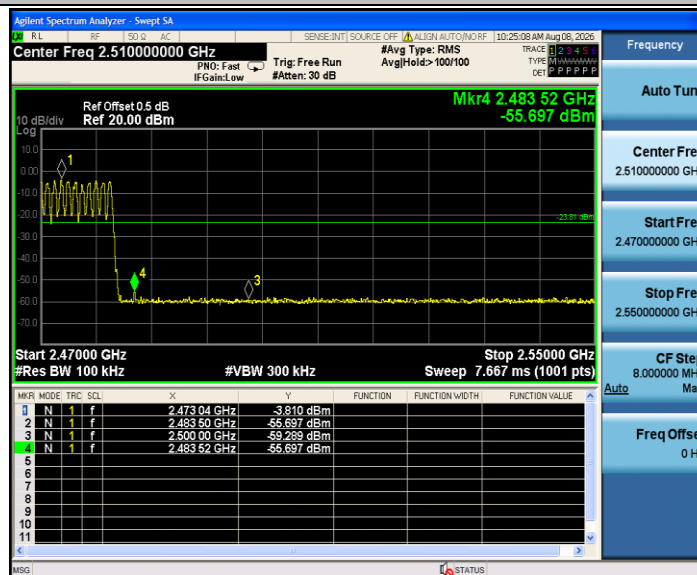
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.43	-57.28	≤-23.43	PASS
		High	2480	-4.01	-57.91	≤-24.01	PASS
		Low	Hop_2402	-4.38	-56.18	≤-24.38	PASS
		High	Hop_2480	-3.81	-55.7	≤-23.81	PASS
2DH5	Ant1	Low	2402	-4.40	-57.34	≤-24.4	PASS
		High	2480	-5.10	-39.29	≤-25.1	PASS
		Low	Hop_2402	-4.42	-57.82	≤-24.42	PASS
		High	Hop_2480	-7.47	-54.89	≤-27.47	PASS

Test Graphs

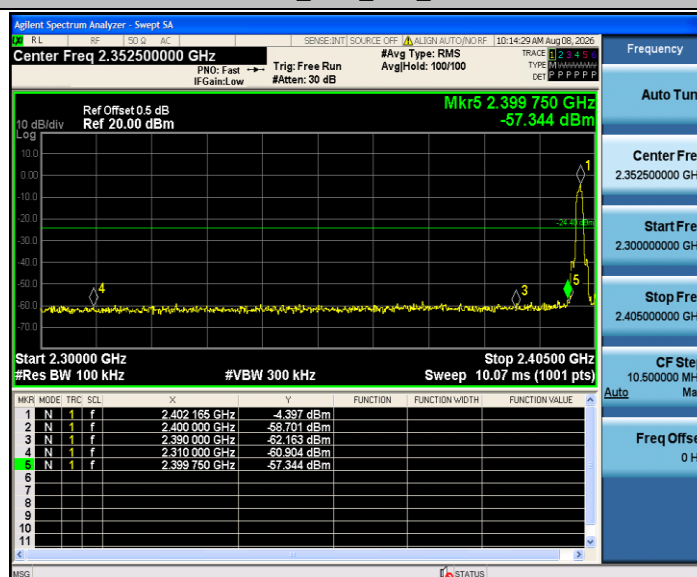




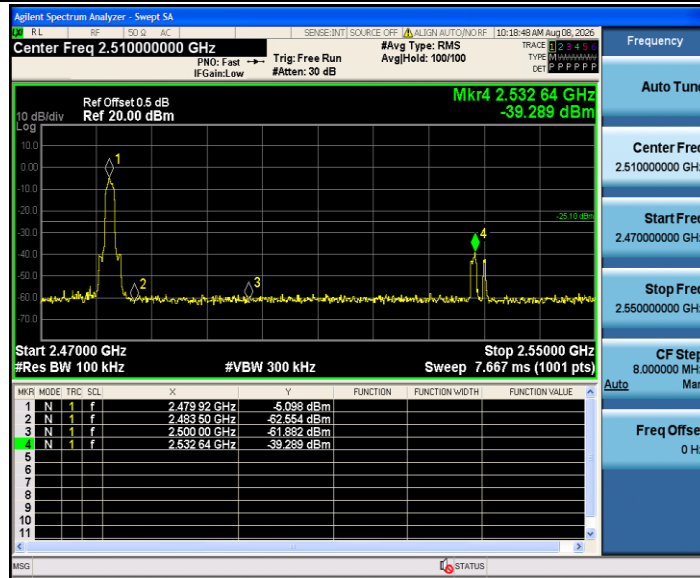
DH5_Ant1_High_Hop_2480



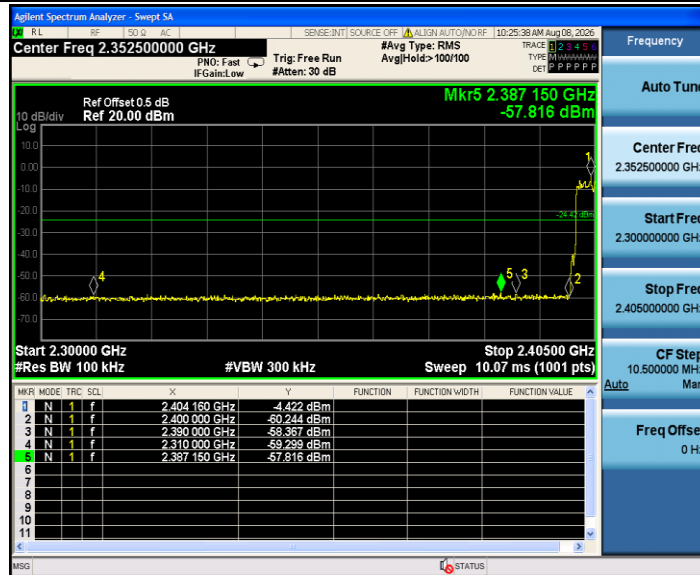
2DH5_Ant1_Low_2402



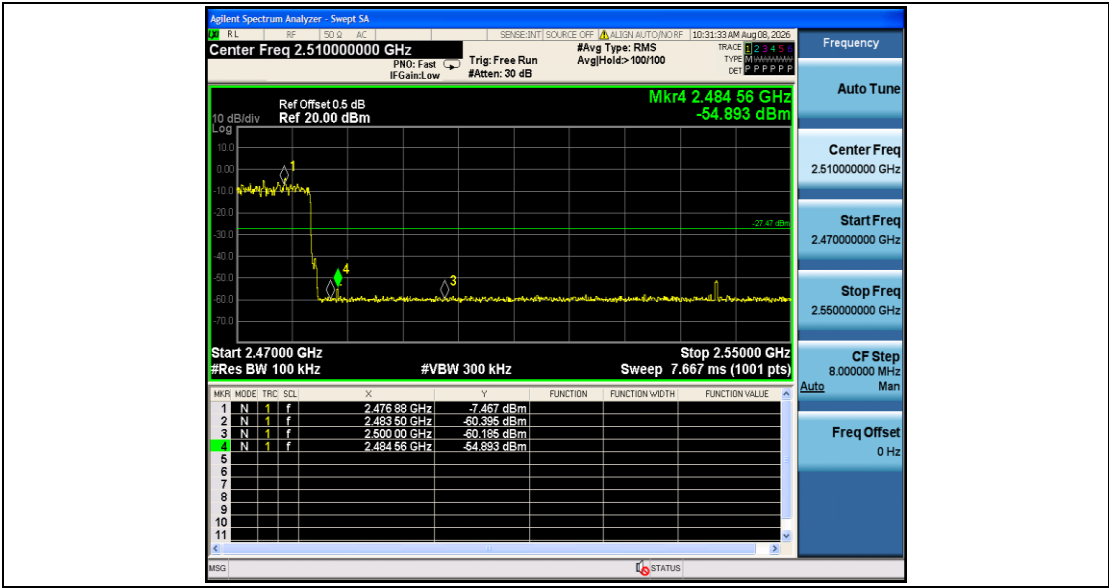
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

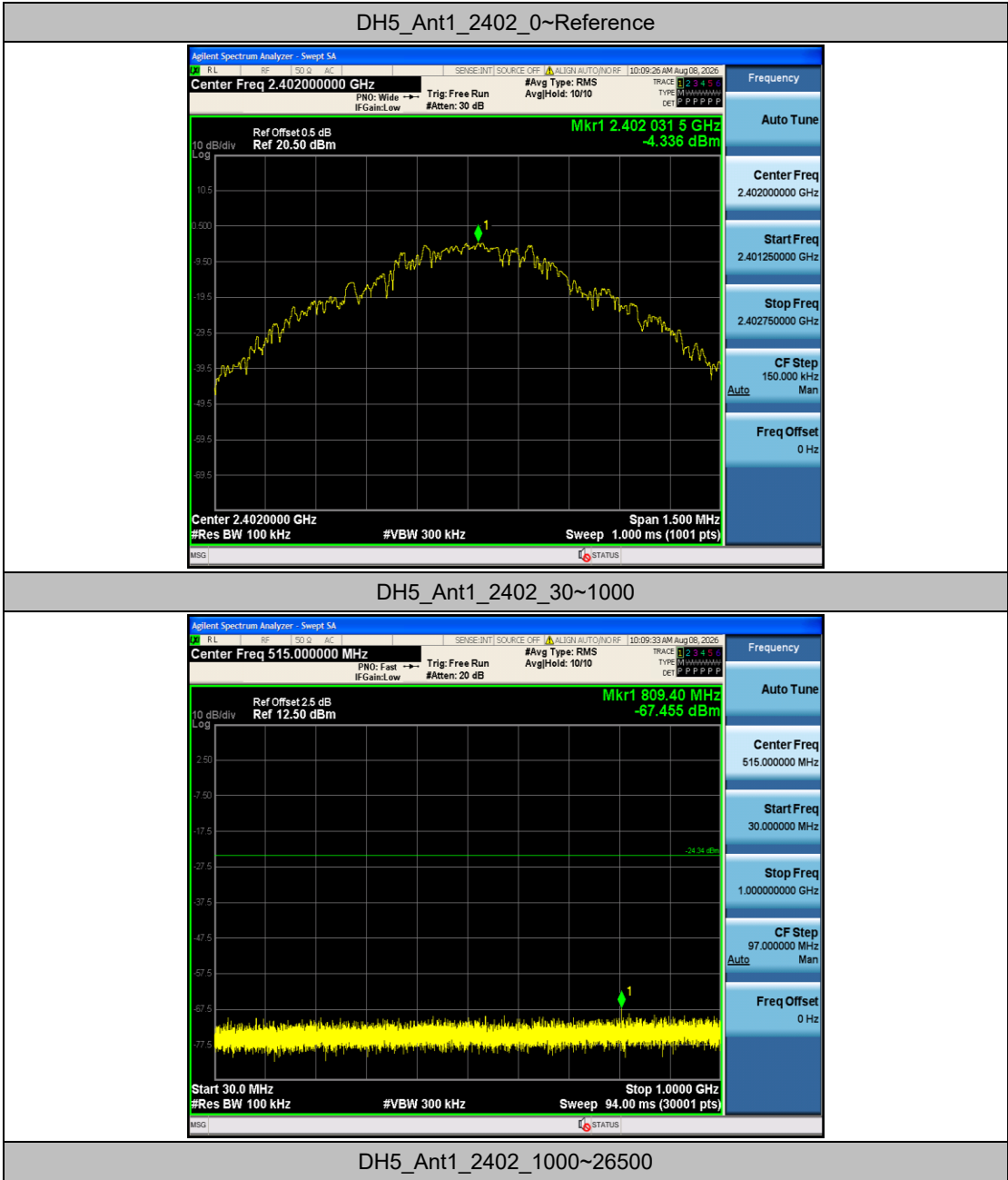


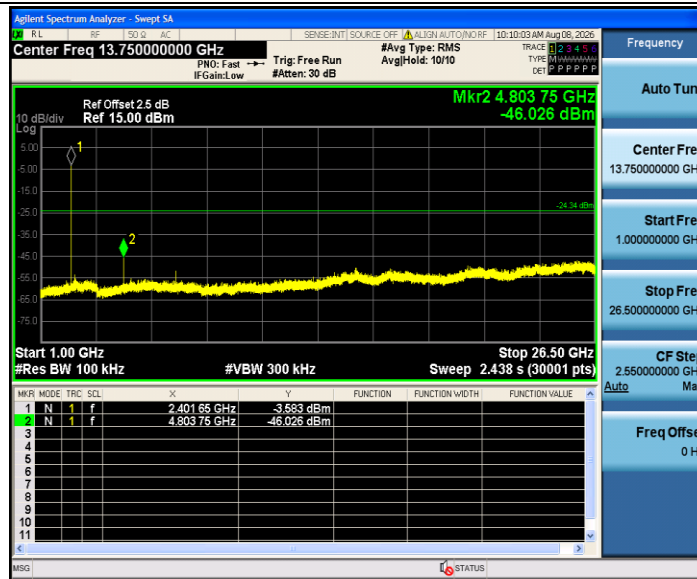
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.34	-4.34	---	PASS
			30~1000	-4.34	-67.46	≤-24.34	PASS
			1000~26500	-4.34	-46.03	≤-24.34	PASS
		2441	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-68	≤-24.48	PASS
			1000~26500	-4.48	-46.77	≤-24.48	PASS
		2480	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-68.61	≤-24.61	PASS
			1000~26500	-4.61	-46.73	≤-24.61	PASS
2DH5	Ant1	2402	Reference	-4.91	-4.91	---	PASS
			30~1000	-4.91	-68.53	≤-24.91	PASS
			1000~26500	-4.91	-43.21	≤-24.91	PASS
		2441	Reference	-4.88	-4.88	---	PASS
			30~1000	-4.88	-67.22	≤-24.88	PASS
			1000~26500	-4.88	-47.12	≤-24.88	PASS
		2480	Reference	-5.26	-5.26	---	PASS
			30~1000	-5.26	-68.51	≤-25.26	PASS
			1000~26500	-5.26	-46.3	≤-25.26	PASS

Test Graphs

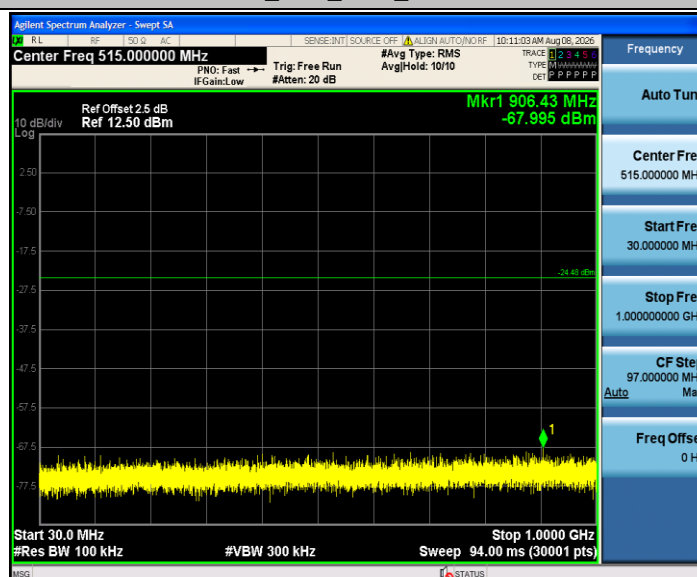




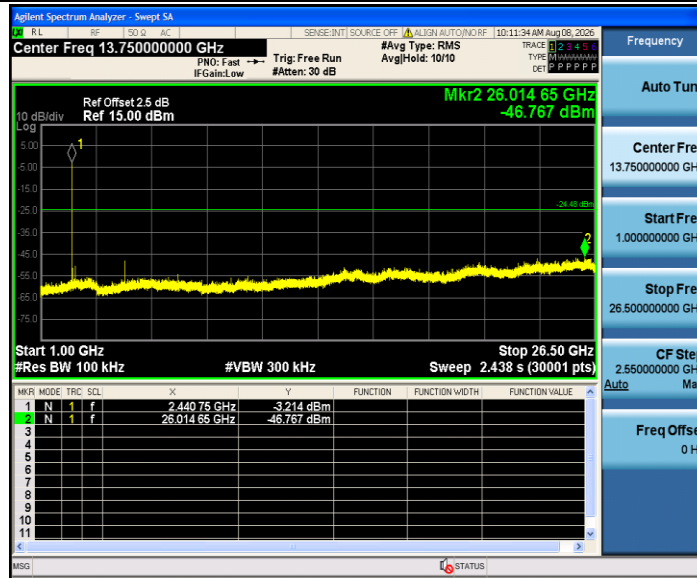
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



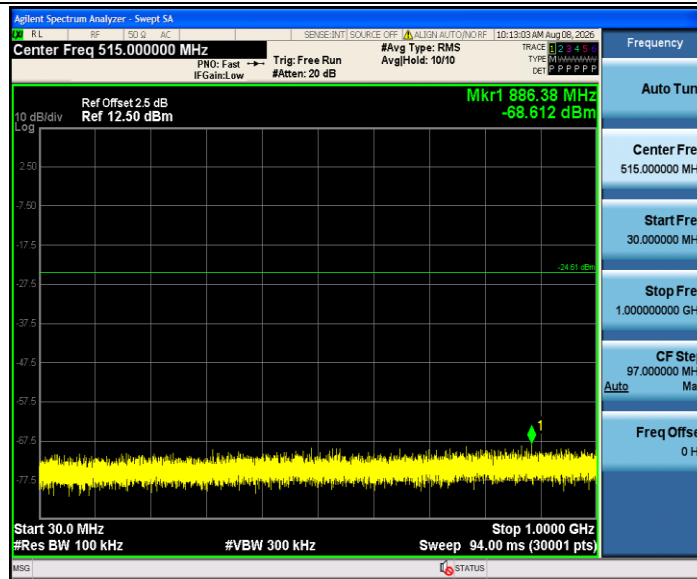
DH5_Ant1_2441_1000~26500



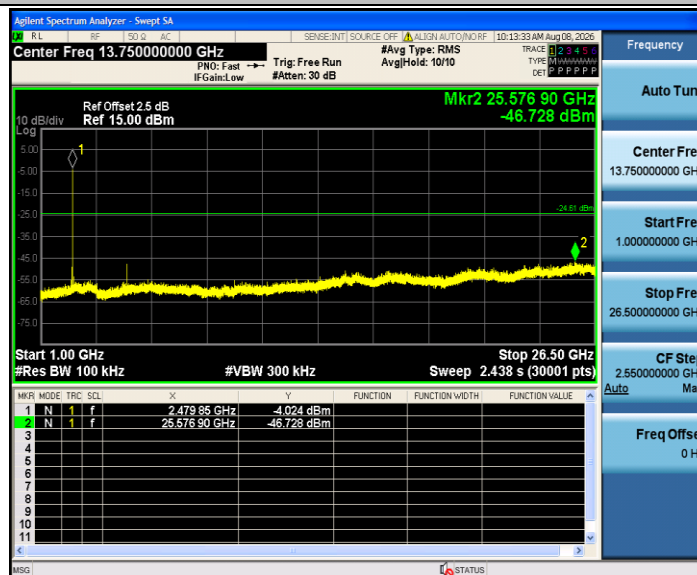
DH5_Ant1_2480_0~Reference



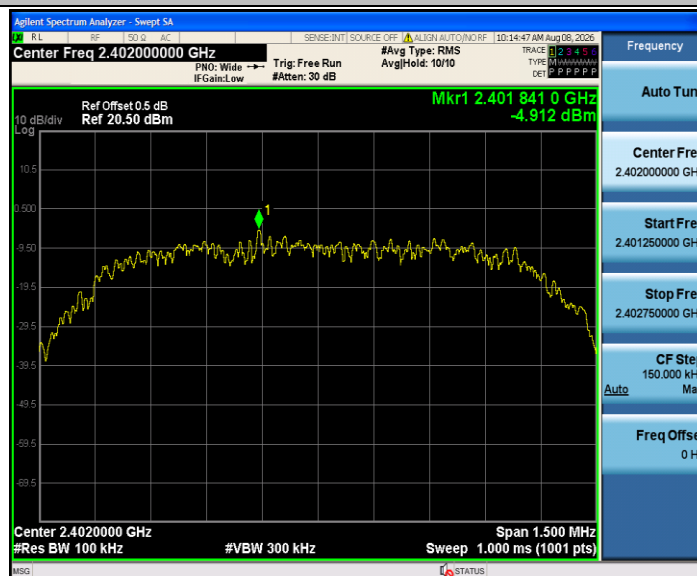
DH5_Ant1_2480_30~1000



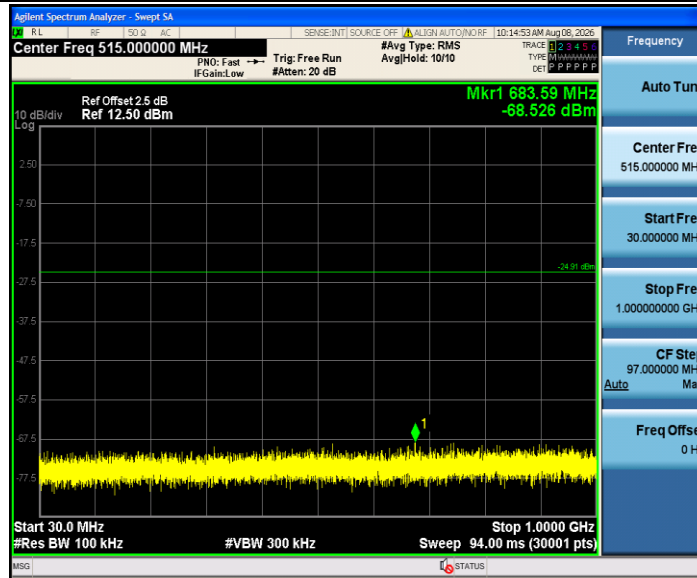
DH5_Ant1_2480_1000~26500



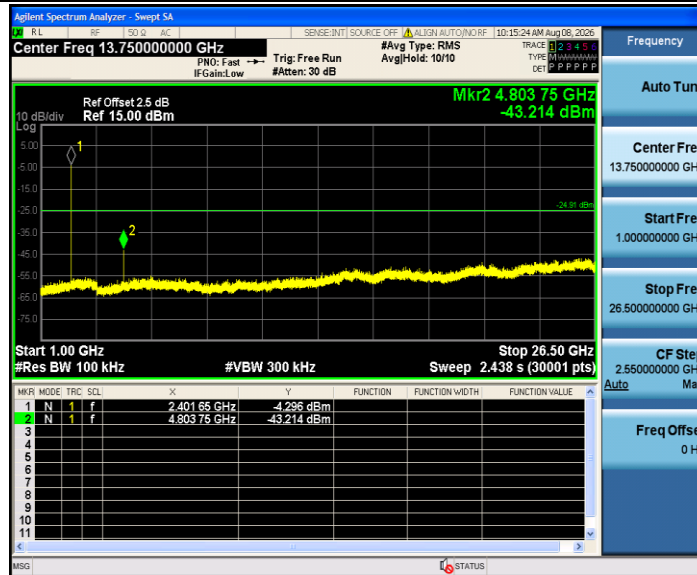
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



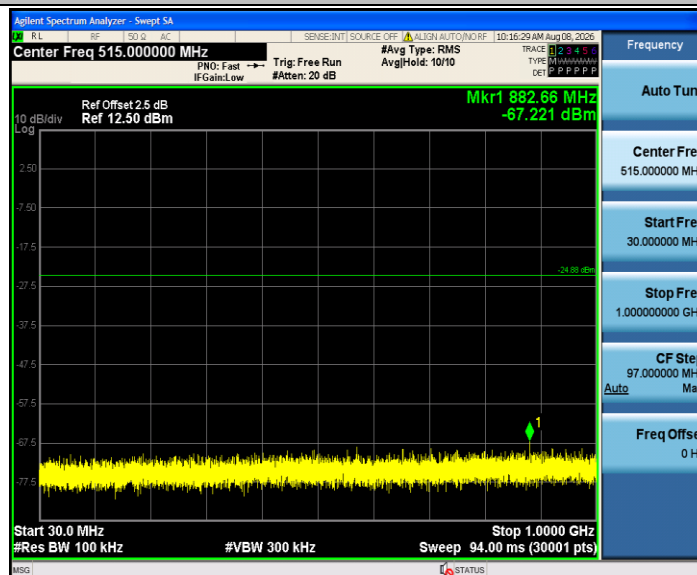
2DH5_Ant1_2402_1000~26500



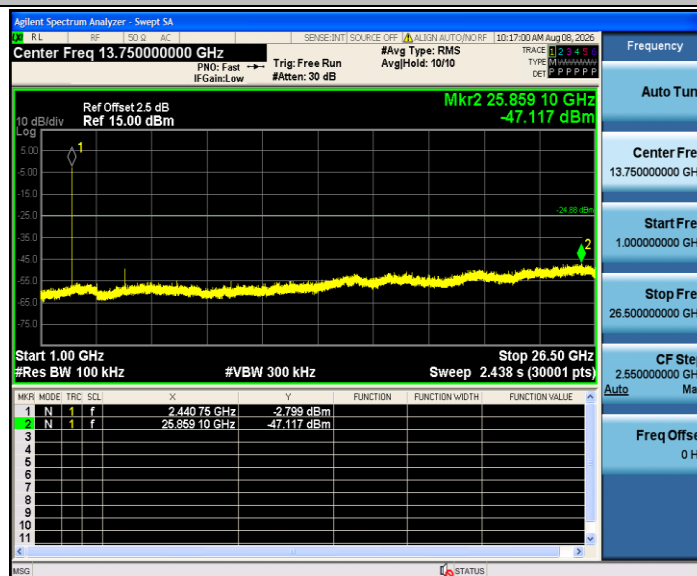
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



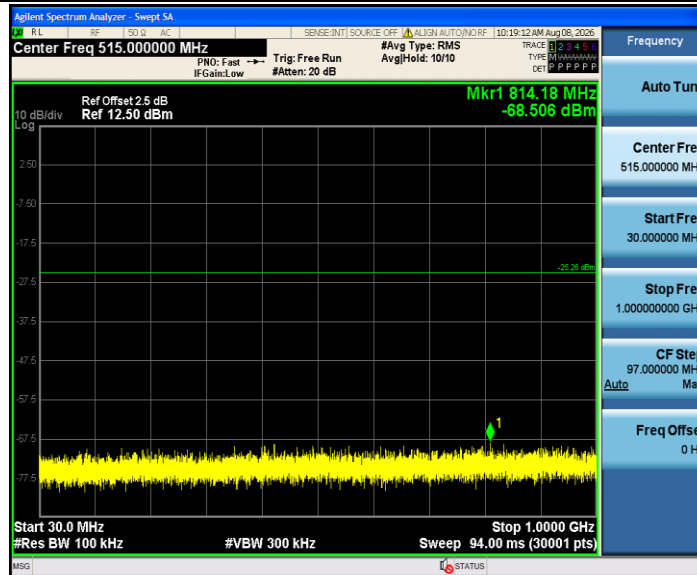
2DH5_Ant1_2441_1000~26500



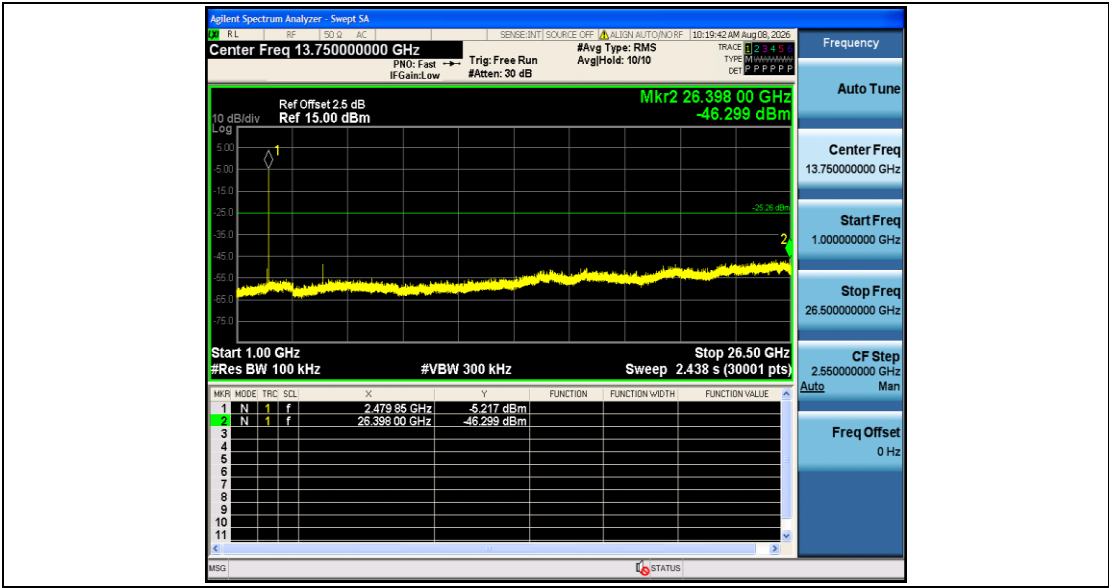
2DH5_Ant1_2480_0~Reference



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	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.76	77.66	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---