

FCC Appendix RF Test Data for BT

FCC ID : 2BXI6-8D-9C

Company : Shantou Haodaole Electronic Technology Co., Ltd.

EUT : Multifunctional DJ guitar

Model Number : 8D-9C

Report No. : CTA26080701102

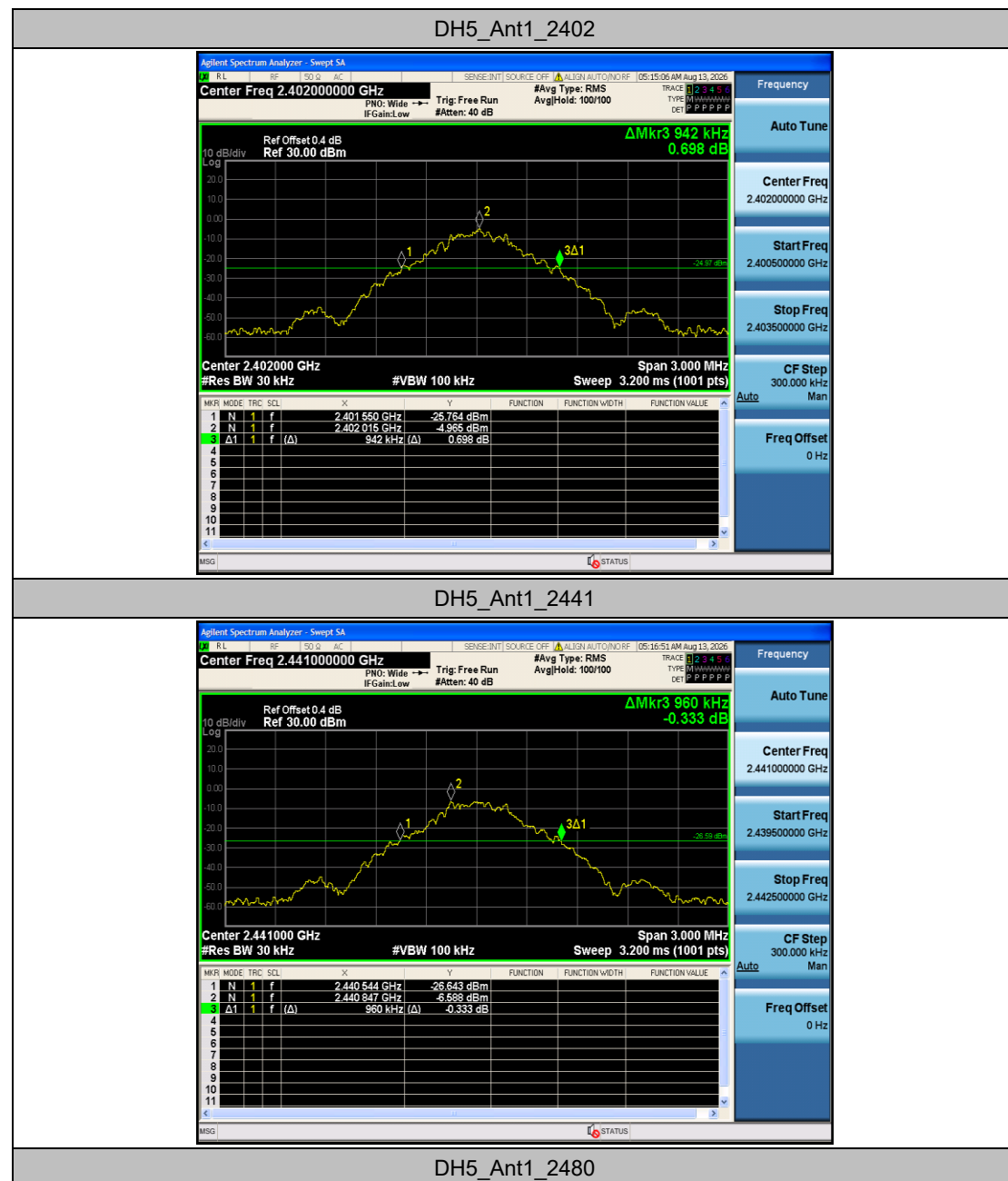
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.550	2402.492	---	---
		2441	0.960	2440.544	2441.504	---	---
		2480	0.888	2479.550	2480.438	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.344	2440.334	2441.678	---	---
		2480	1.320	2479.352	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



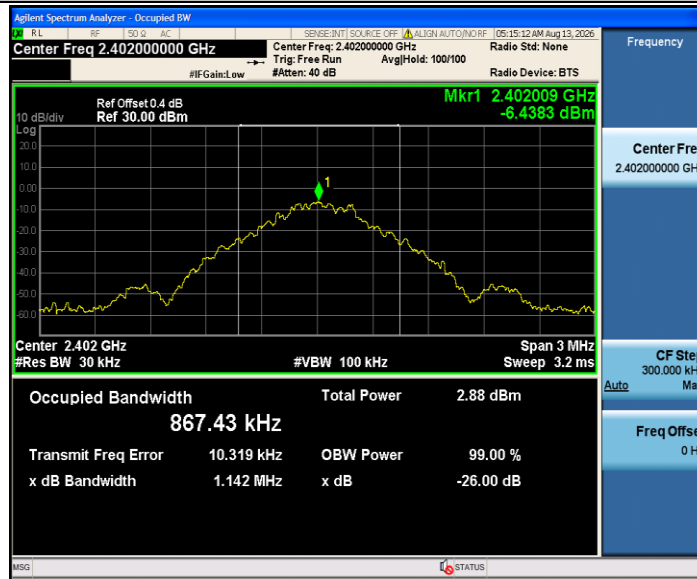
Appendix B: Occupied Channel Bandwidth

Test Result

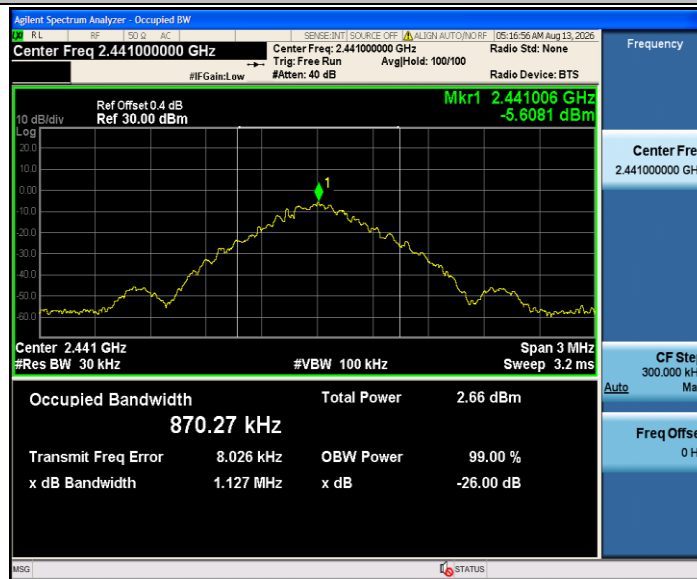
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86743	2401.5766	2402.4440	---	---
		2441	0.87027	2440.5729	2441.4432	---	---
		2480	0.86616	2479.5761	2480.4422	---	---
2DH5	Ant1	2402	1.1825	2401.4166	2402.5991	---	---
		2441	1.1966	2440.4133	2441.6099	---	---
		2480	1.1803	2479.4214	2480.6017	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



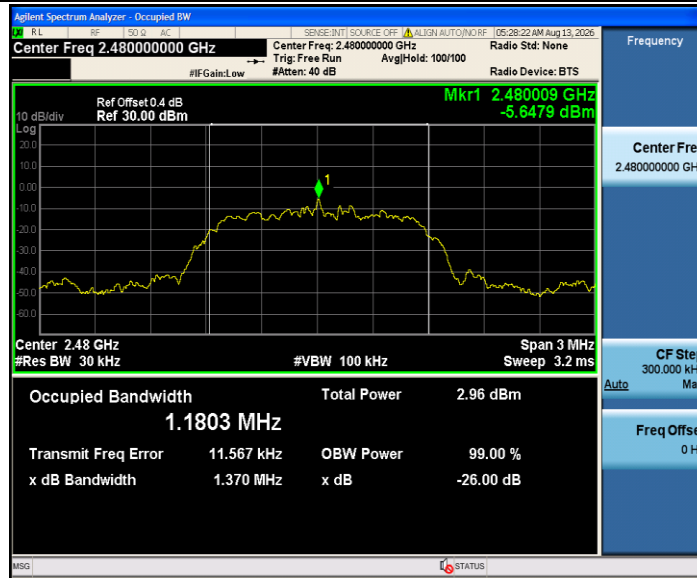
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

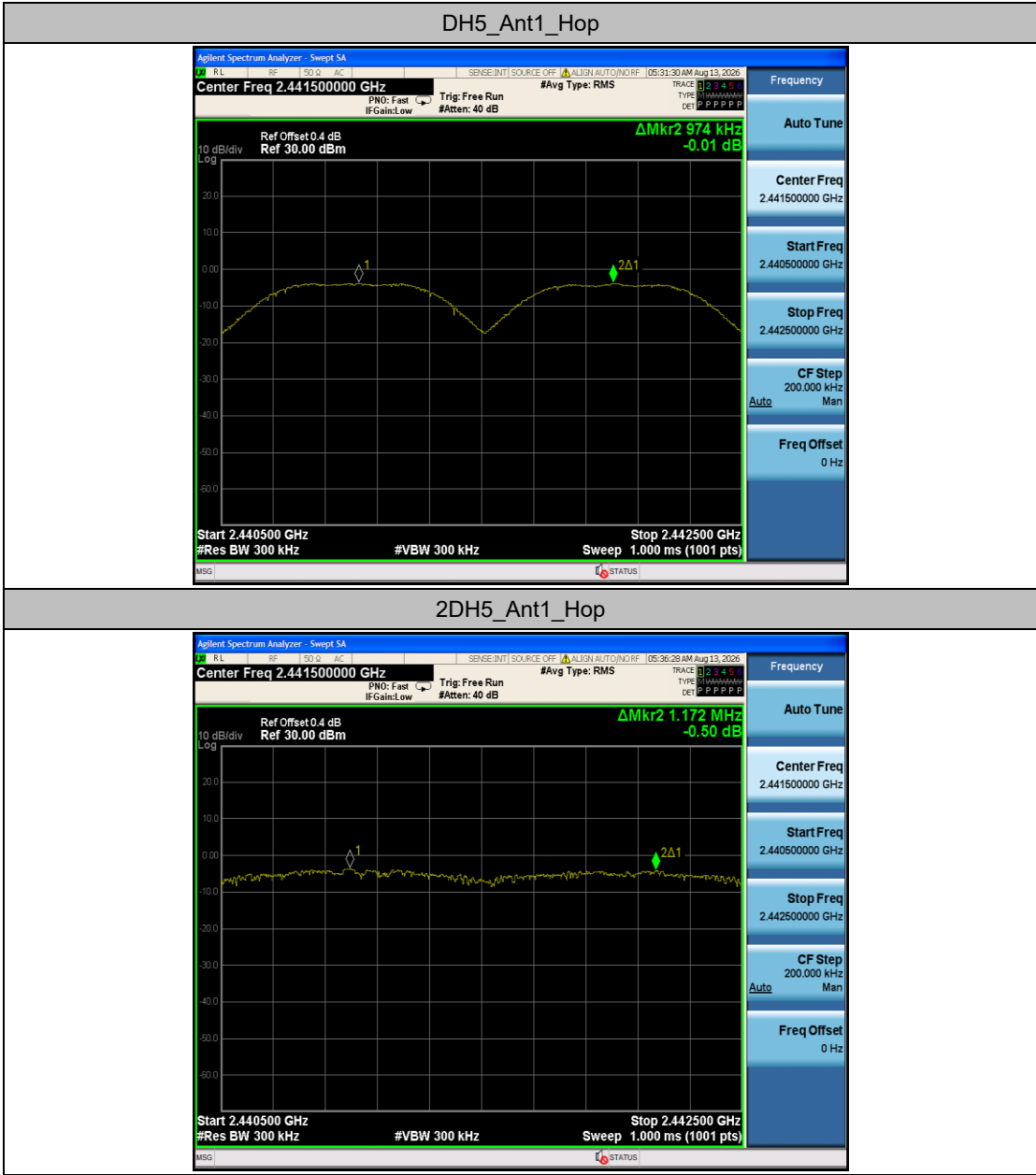
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.41	≤20.97	PASS
		2441	-3.54	≤20.97	PASS
		2480	-3.91	≤20.97	PASS
2DH5	Ant1	2402	-0.86	≤20.97	PASS
		2441	-0.90	≤20.97	PASS
		2480	-1.31	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.974	≥ 0.960	PASS
2DH5	Ant1	Hop	1.172	≥ 0.896	PASS

Test Graphs

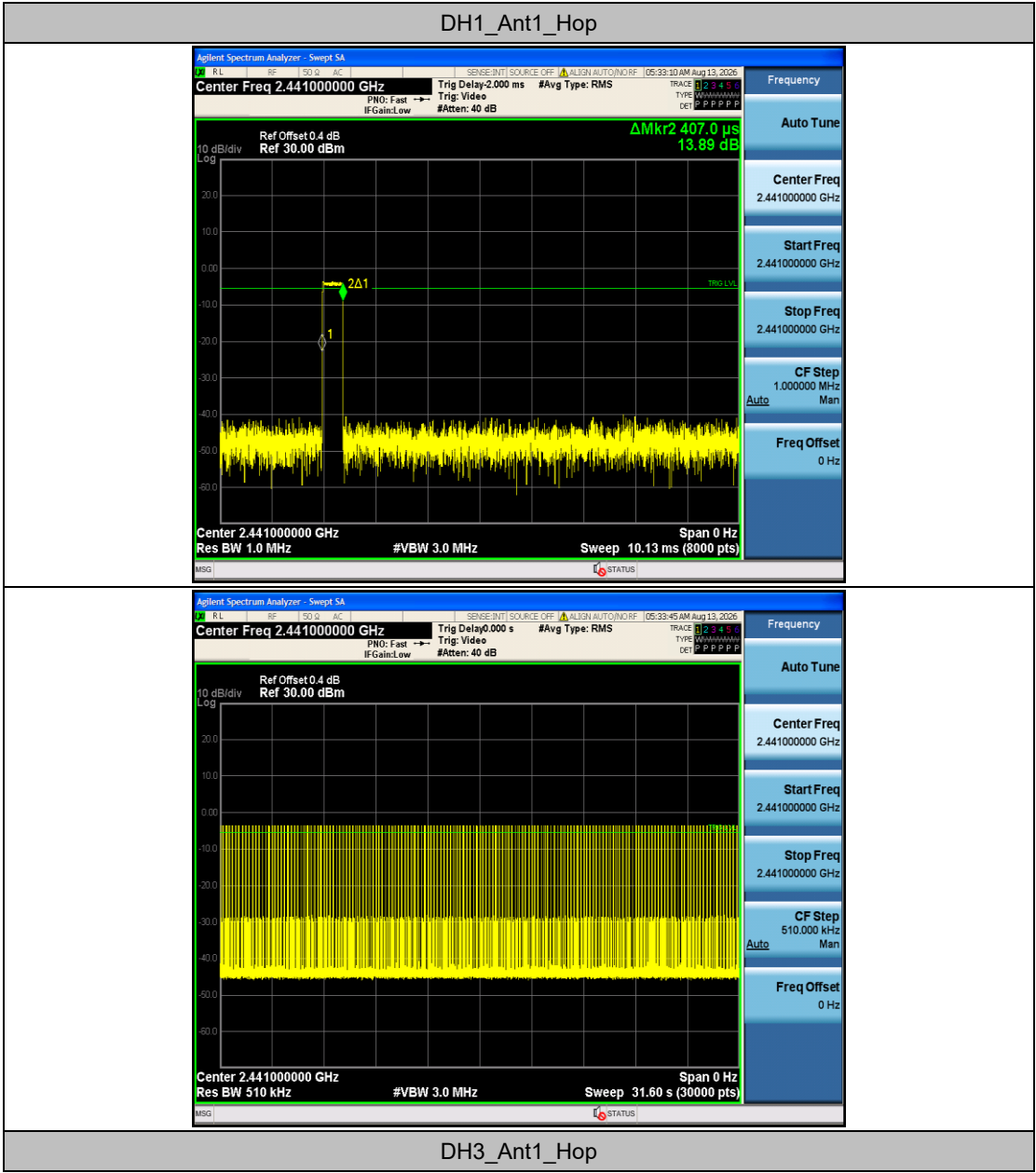


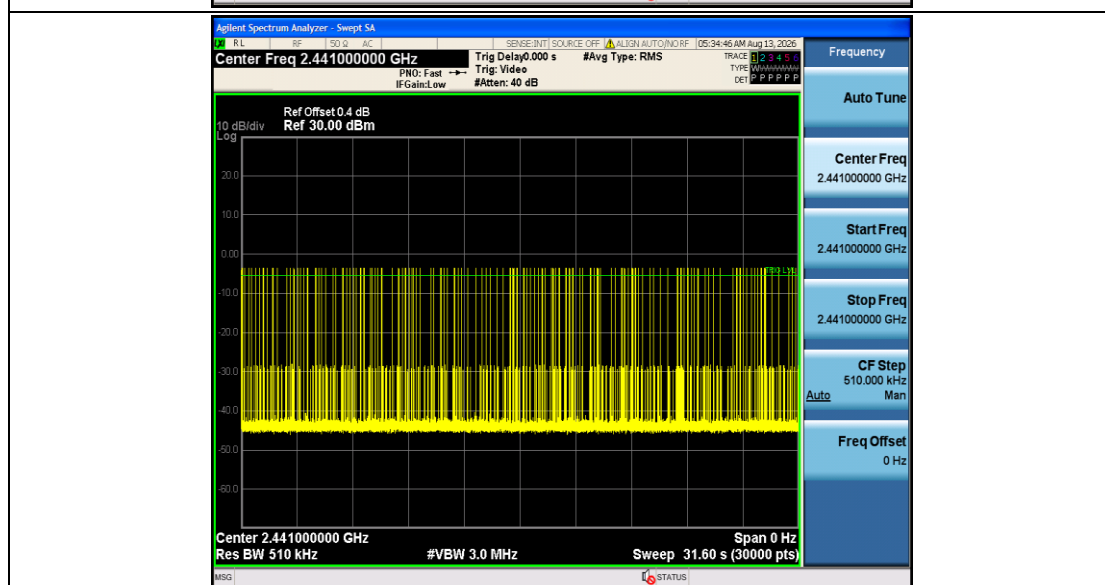
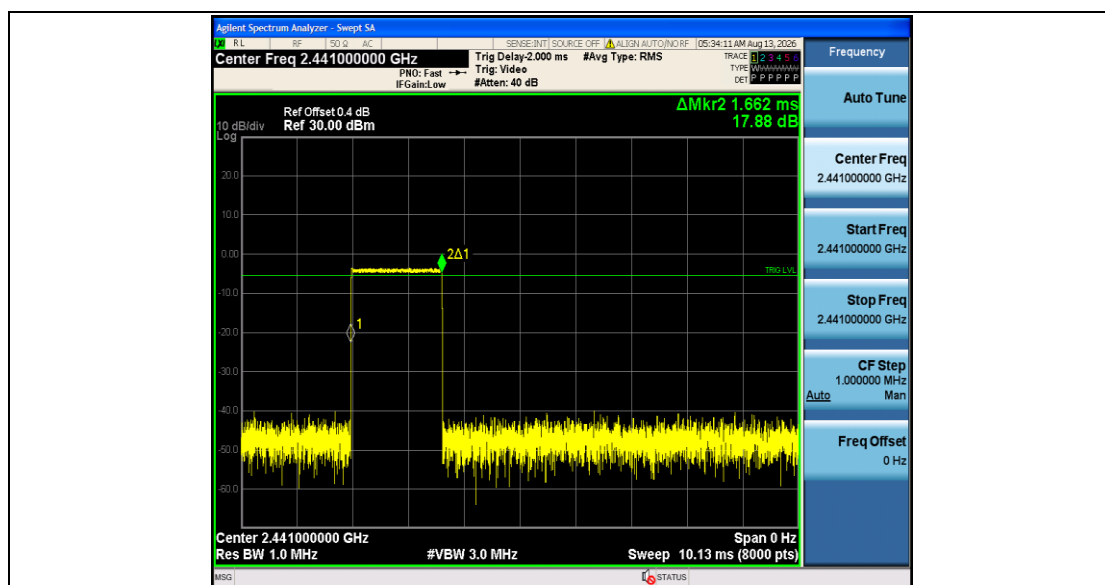
Appendix E: Time of occupancy

Test Result

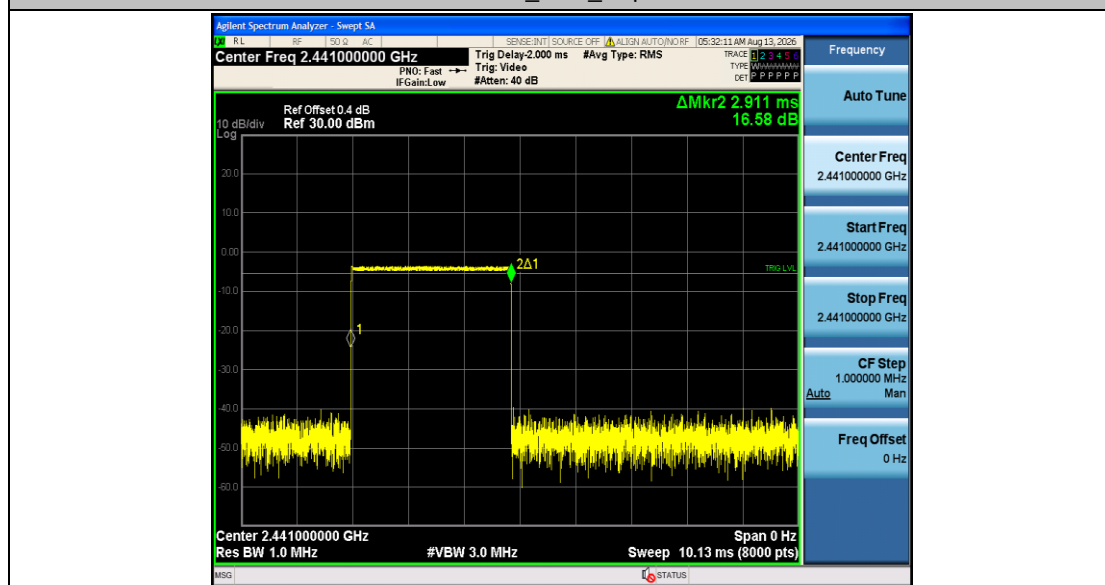
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	151	0.251	≤0.4	PASS
DH5	Ant1	Hop	2.911	117	0.341	≤0.4	PASS
2DH1	Ant1	Hop	0.415	317	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	158	0.263	≤0.4	PASS
2DH5	Ant1	Hop	2.916	112	0.327	≤0.4	PASS

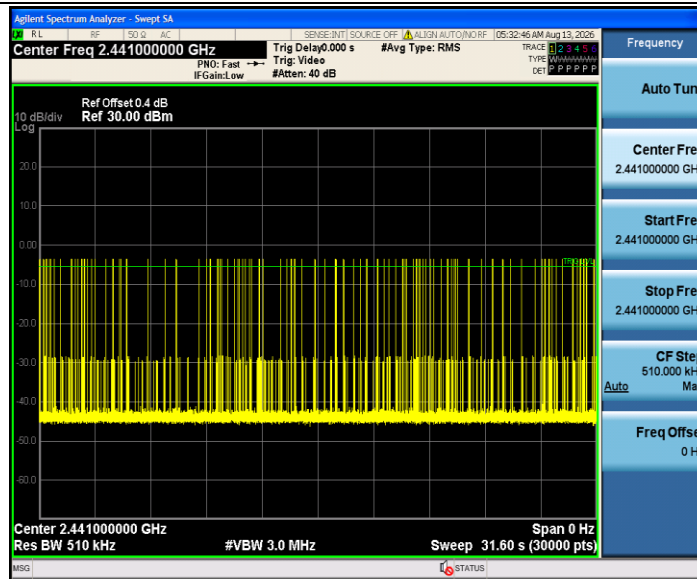
Test Graphs



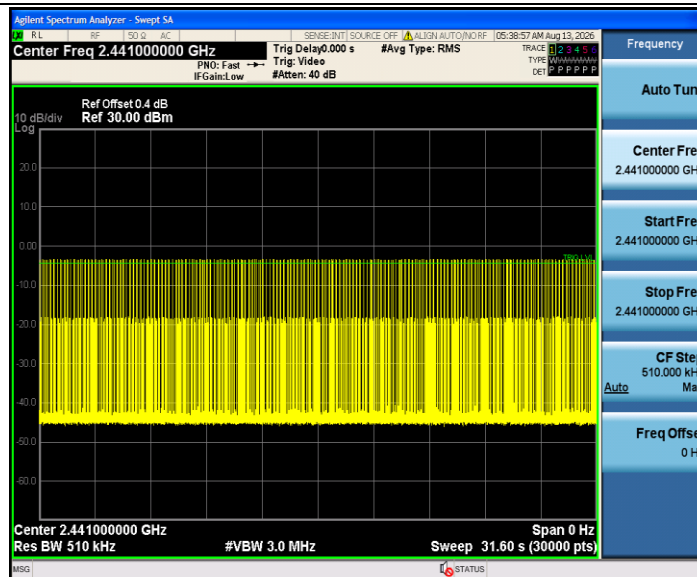
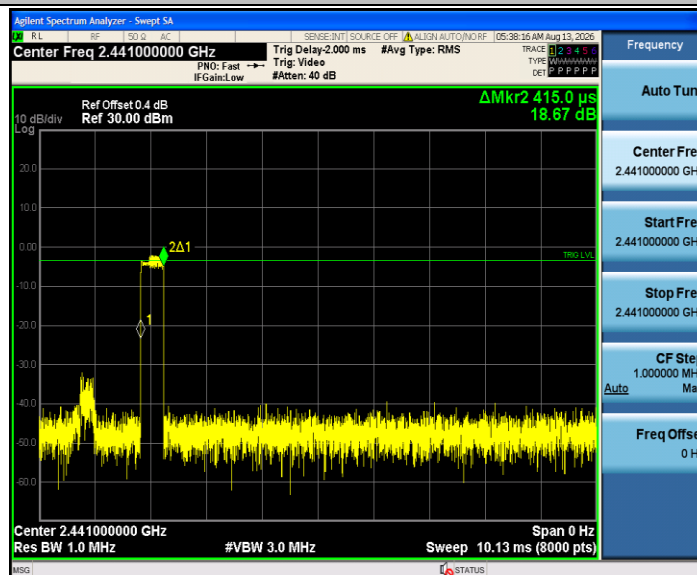


DH5_Ant1_Hop

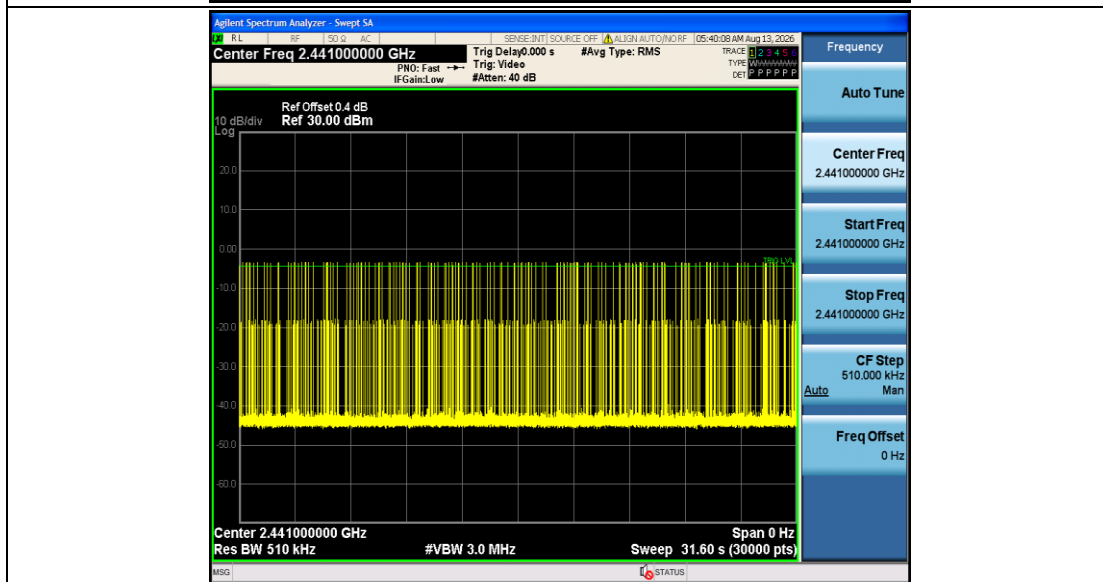
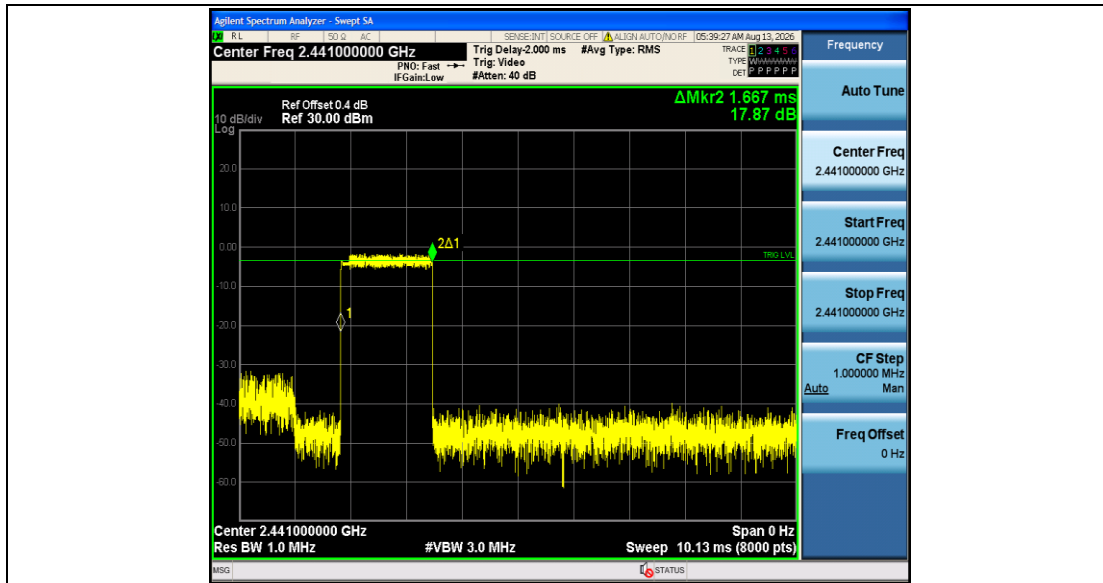




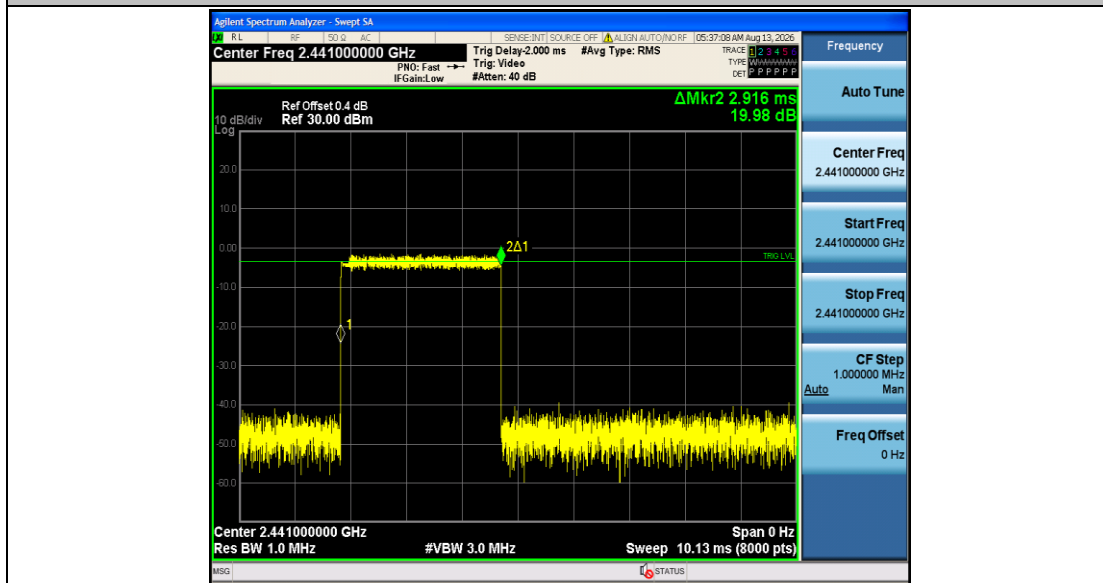
2DH1_Ant1_Hop

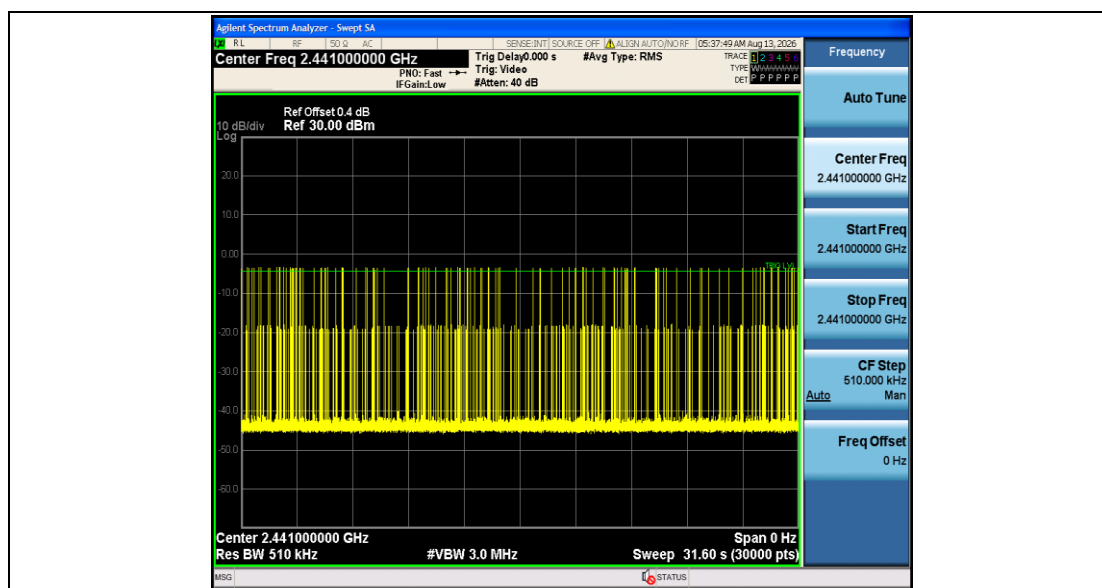


2DH3_Ant1_Hop



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

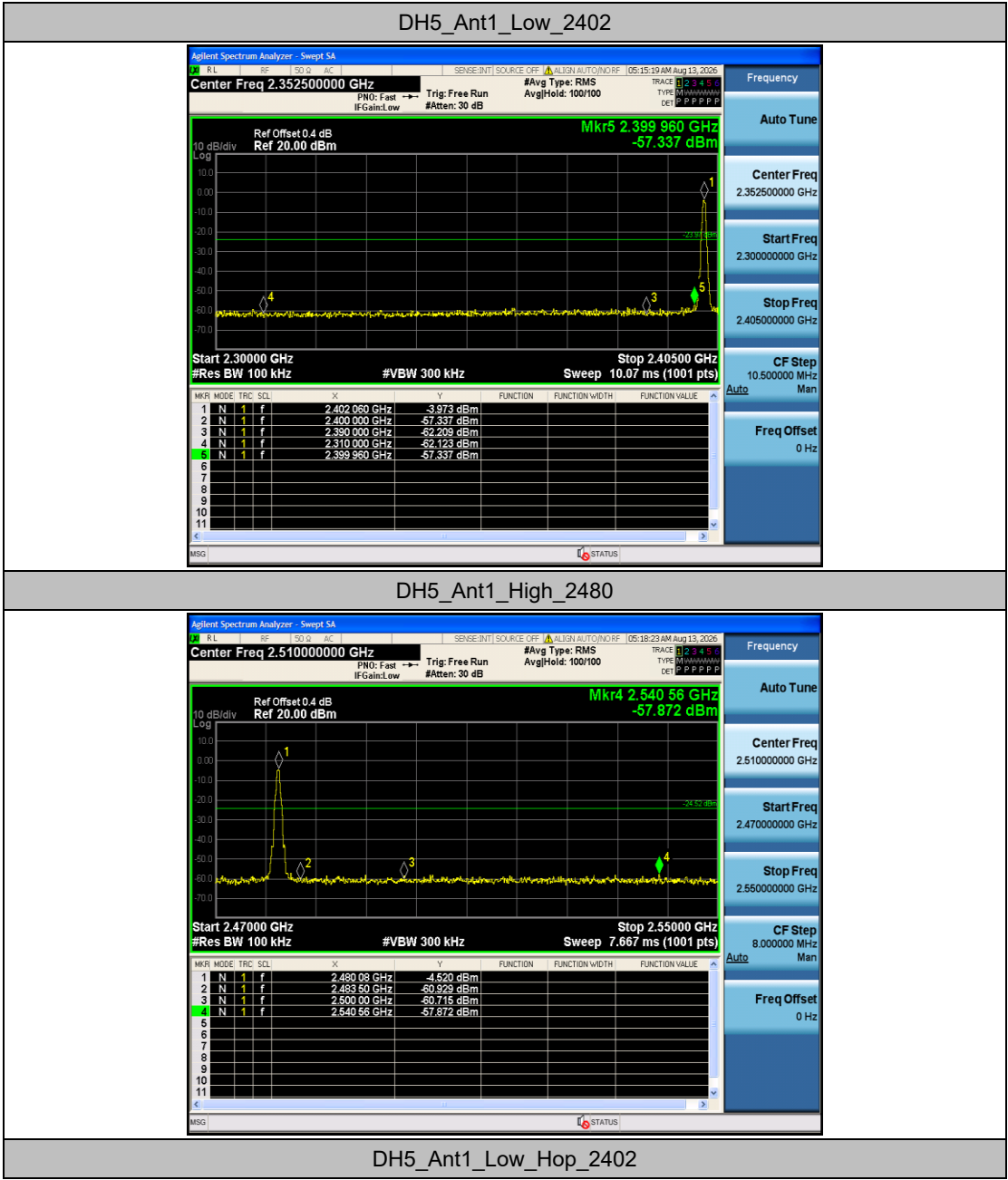


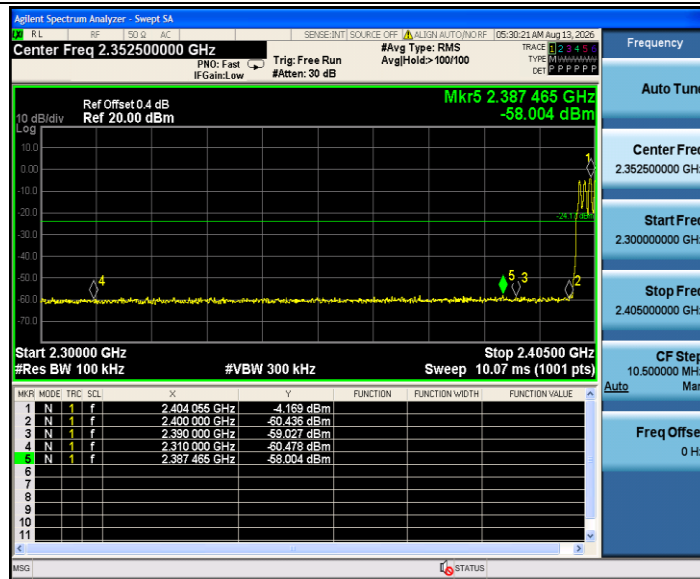
Appendix G: Band edge measurements

Test Result

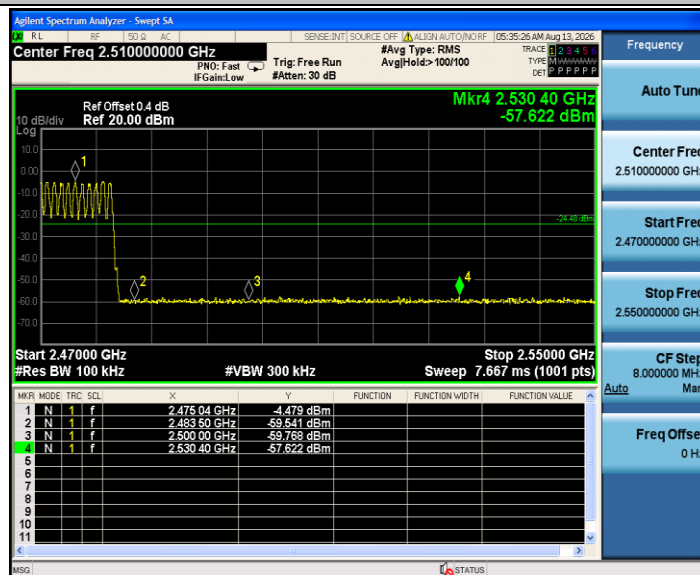
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.97	-57.34	≤-23.97	PASS
		High	2480	-4.52	-57.87	≤-24.52	PASS
		Low	Hop_2402	-4.17	-58	≤-24.17	PASS
		High	Hop_2480	-4.48	-57.62	≤-24.48	PASS
2DH5	Ant1	Low	2402	-6.04	-57.35	≤-26.04	PASS
		High	2480	-4.82	-58.28	≤-24.82	PASS
		Low	Hop_2402	-6.10	-58.15	≤-26.1	PASS
		High	Hop_2480	-4.94	-57.29	≤-24.94	PASS

Test Graphs

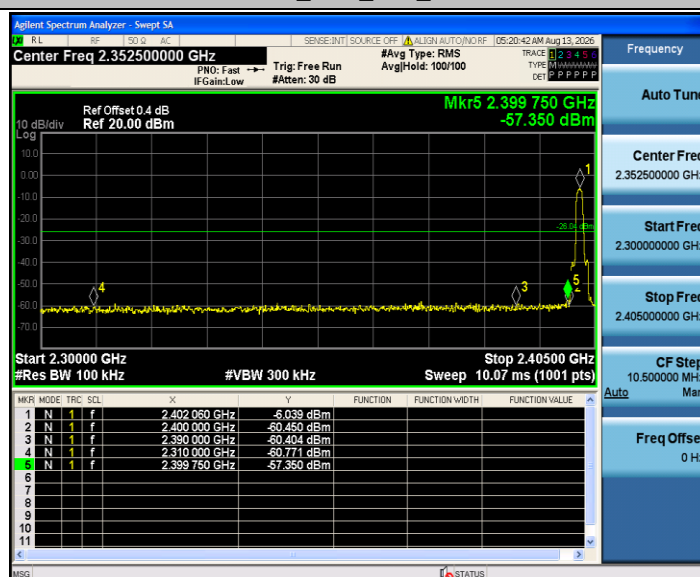




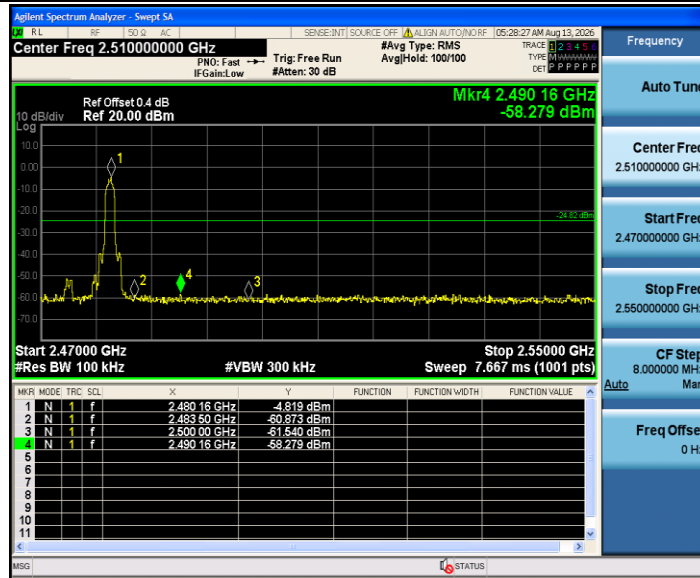
DH5_Ant1_High_Hop_2480



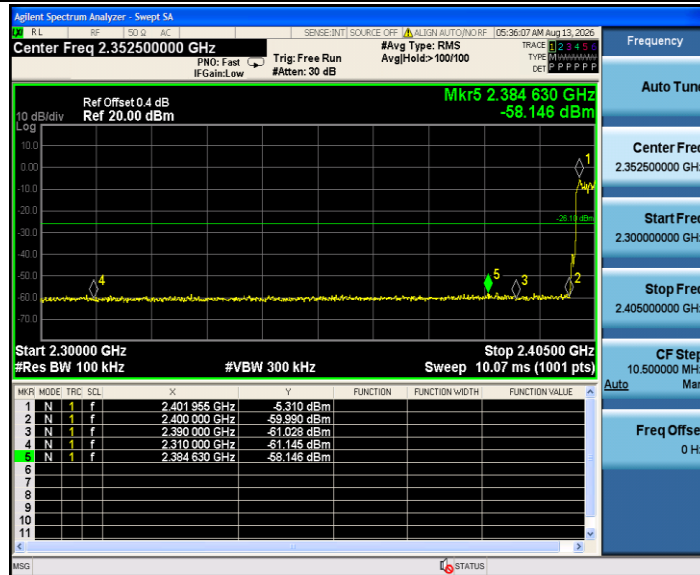
2DH5_Ant1_Low_2402



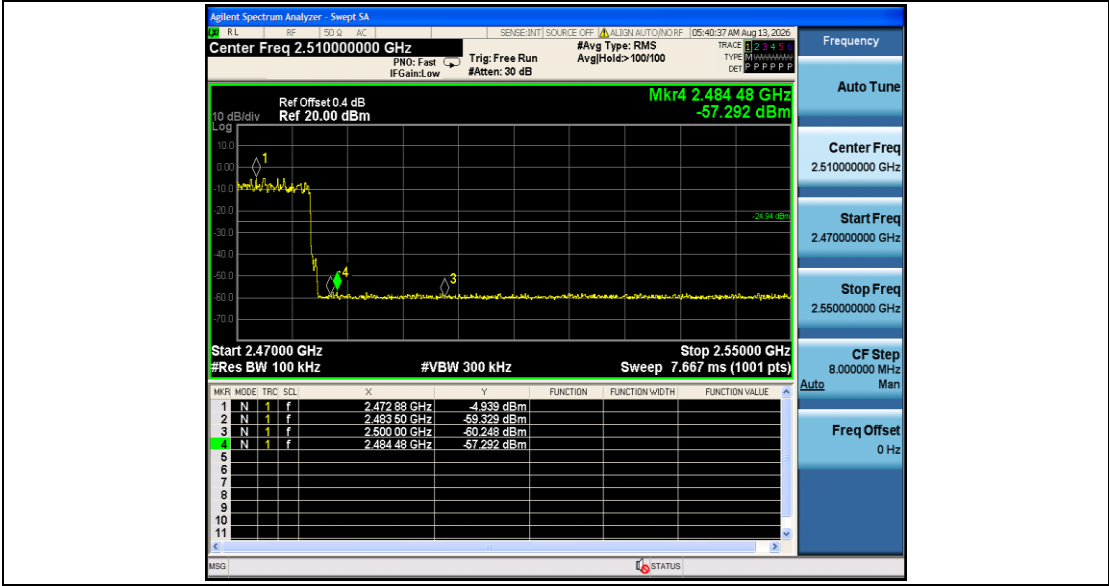
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

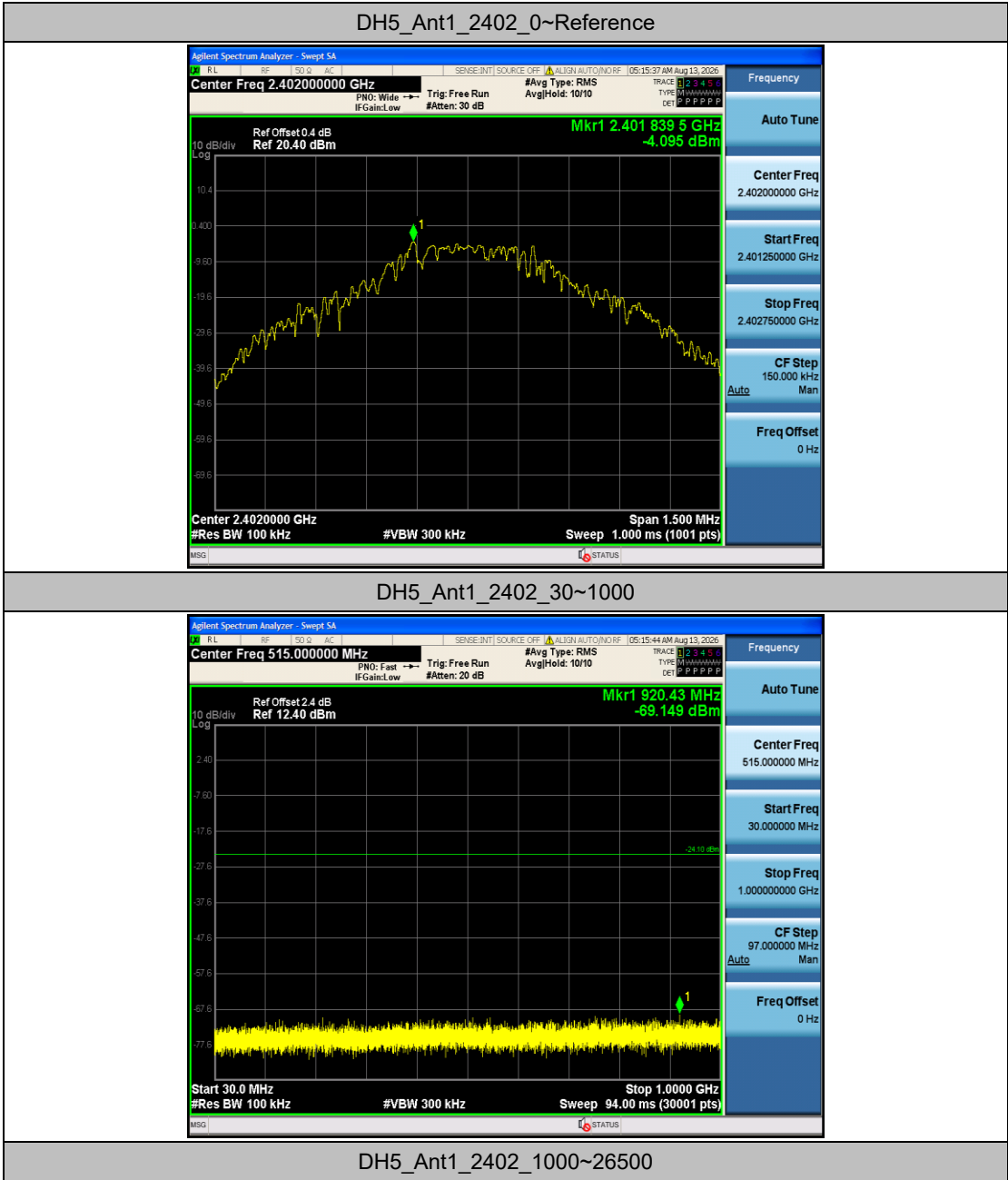


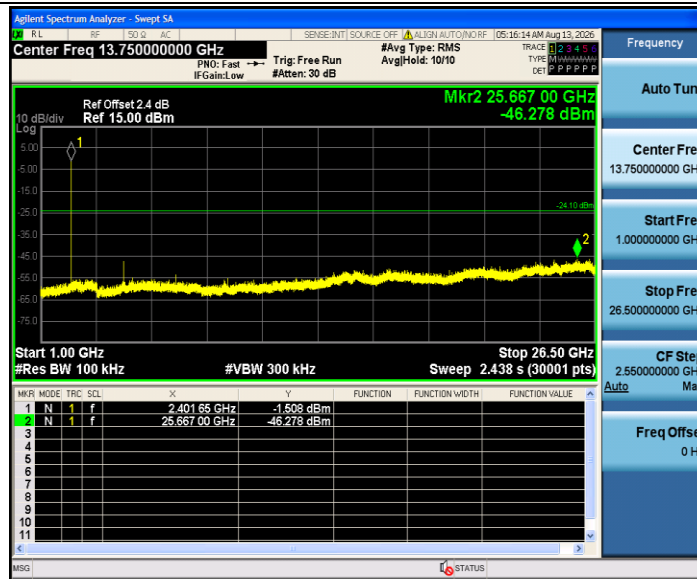
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.10	-4.10	---	PASS
			30~1000	-4.10	-69.15	≤-24.1	PASS
			1000~26500	-4.10	-46.28	≤-24.1	PASS
		2441	Reference	-4.80	-4.80	---	PASS
			30~1000	-4.80	-68.79	≤-24.8	PASS
			1000~26500	-4.80	-45.69	≤-24.8	PASS
		2480	Reference	-4.93	-4.93	---	PASS
			30~1000	-4.93	-68.37	≤-24.93	PASS
			1000~26500	-4.93	-46.09	≤-24.93	PASS
2DH5	Ant1	2402	Reference	-3.60	-3.60	---	PASS
			30~1000	-3.60	-69.16	≤-23.6	PASS
			1000~26500	-3.60	-46.3	≤-23.6	PASS
		2441	Reference	-6.17	-6.17	---	PASS
			30~1000	-6.17	-68.85	≤-26.17	PASS
			1000~26500	-6.17	-46.56	≤-26.17	PASS
		2480	Reference	-6.39	-6.39	---	PASS
			30~1000	-6.39	-50.14	≤-26.39	PASS
			1000~26500	-6.39	-45.97	≤-26.39	PASS

Test Graphs

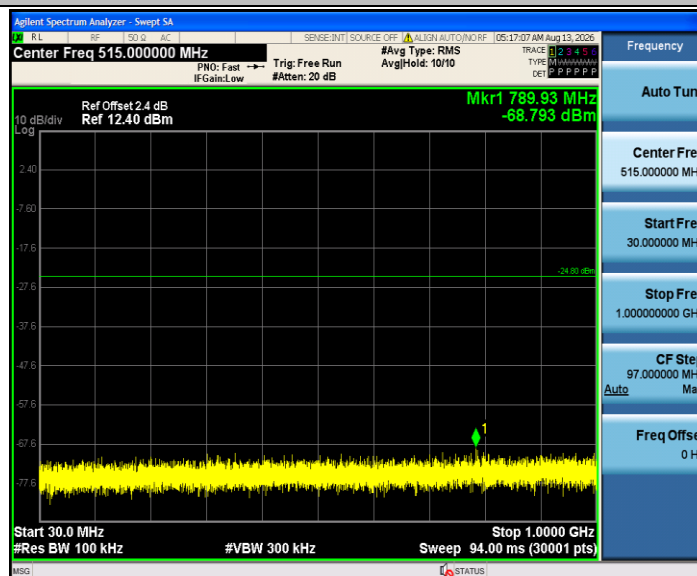




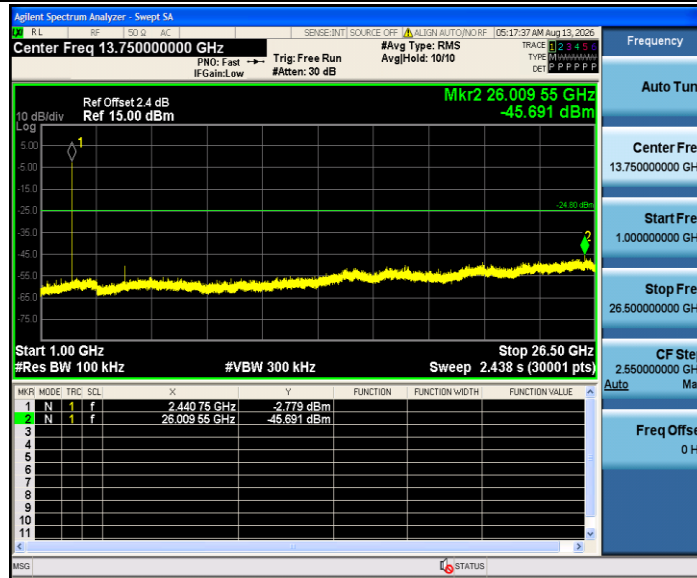
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



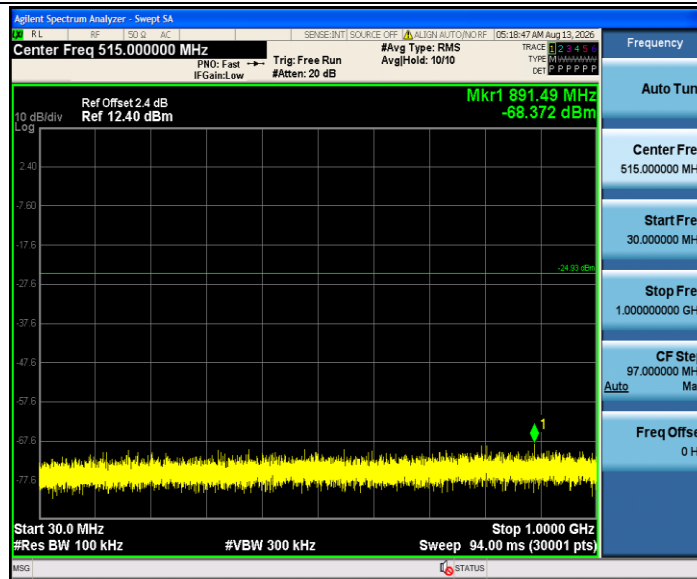
DH5_Ant1_2441_1000~26500



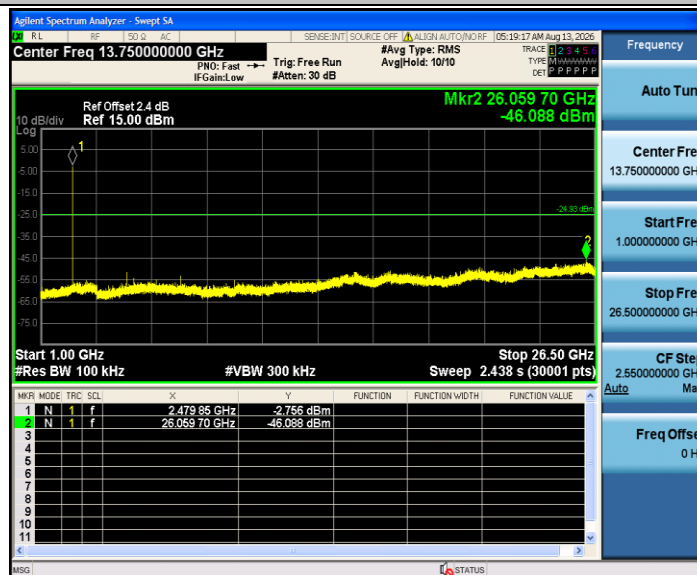
DH5_Ant1_2480_0~Reference



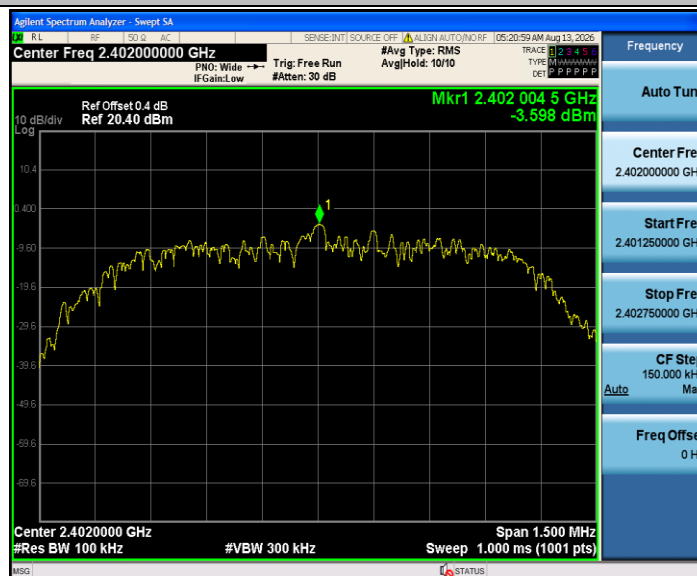
DH5_Ant1_2480_30~1000



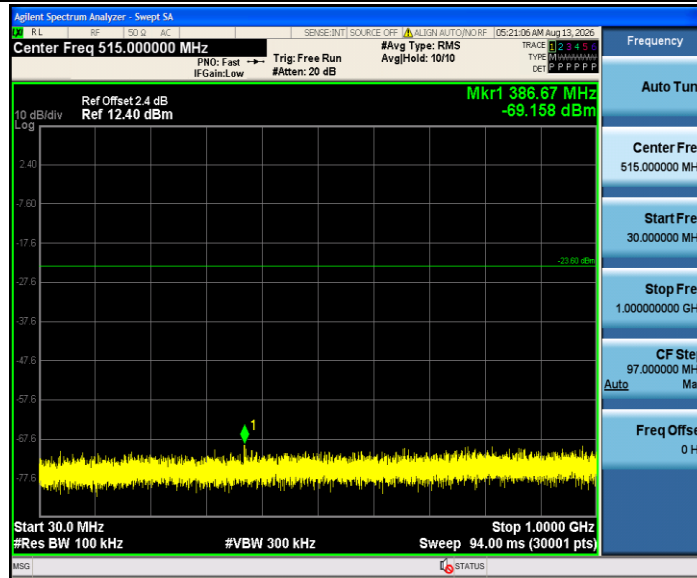
DH5_Ant1_2480_1000~26500



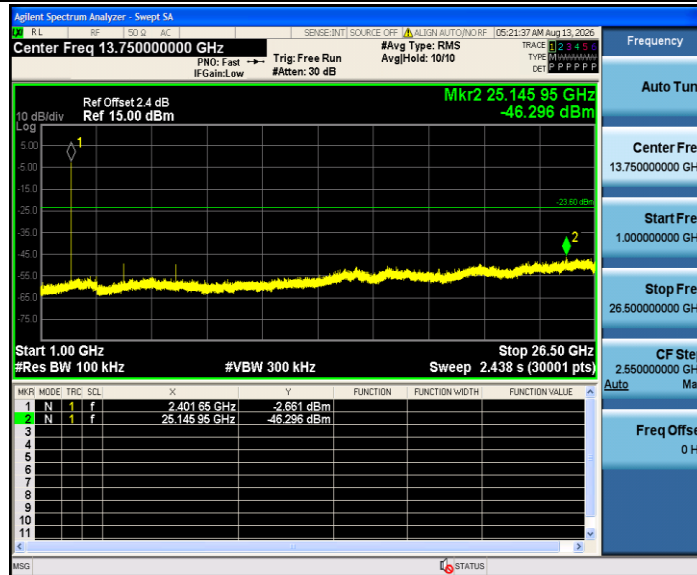
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



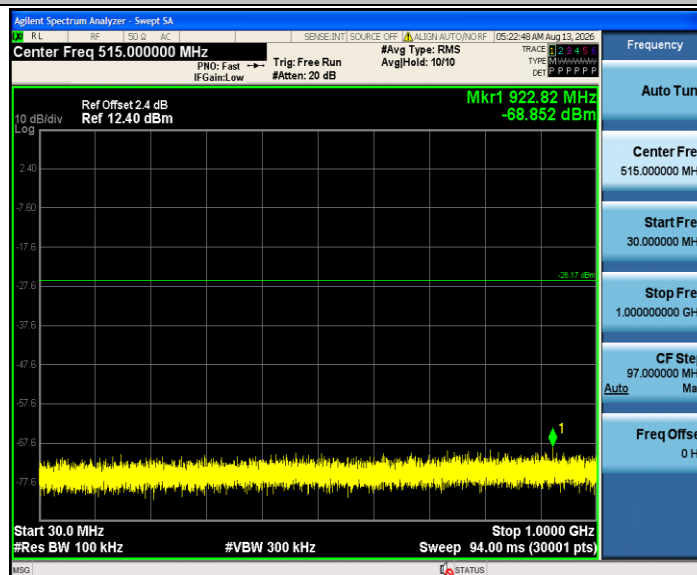
2DH5_Ant1_2402_1000~26500



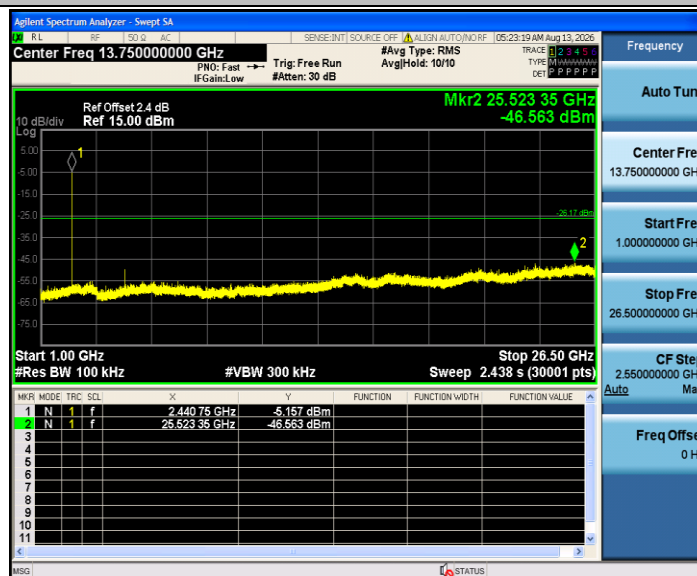
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



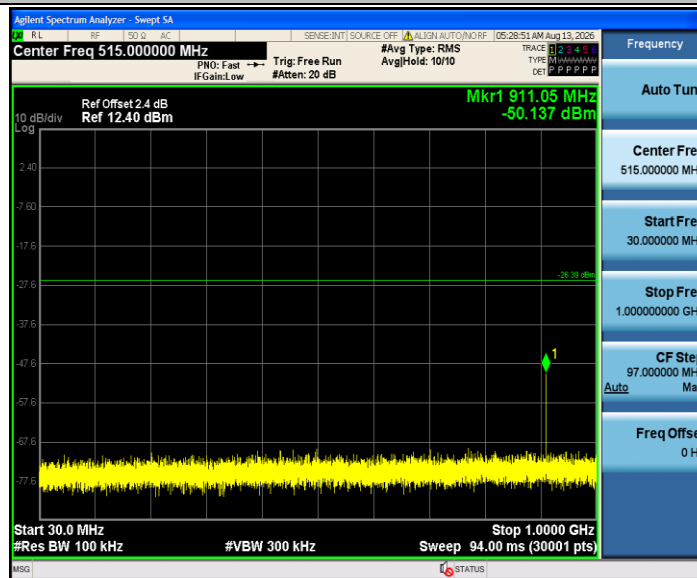
2DH5_Ant1_2441_1000~26500



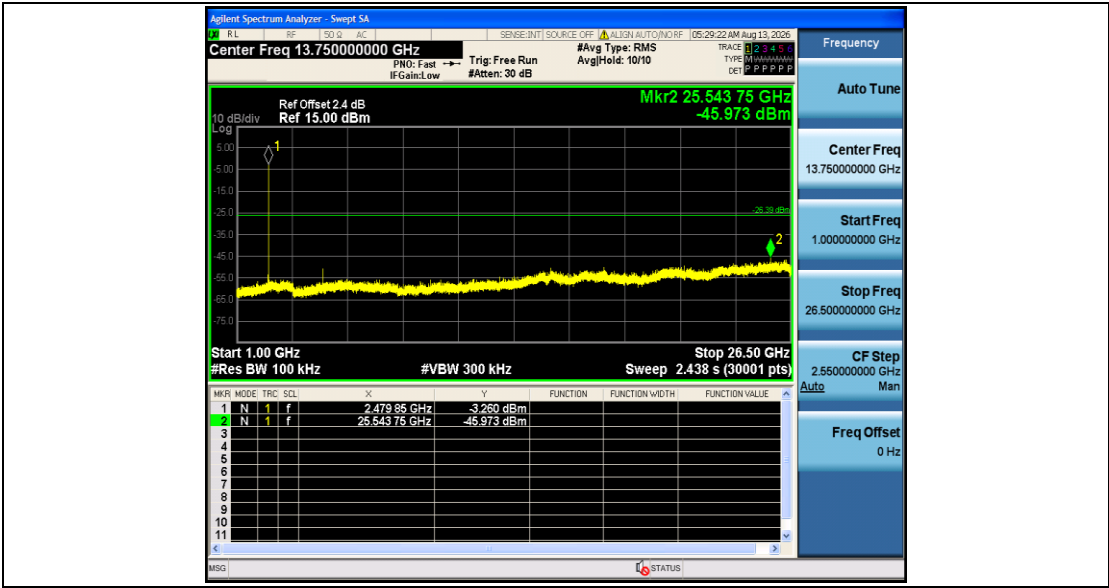
2DH5_Ant1_2480_0~Reference



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	3.74	77.81	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.74	77.81	1.09	---	---