

FCC Appendix RF Test Data for BT

FCC ID : 2BXBY-DYJ01

Company : FOREST BRIGHT TRADING LIMITED

EUT : Voice Printer

Model Number : DYJ01

Report No. : CTA26070601801

Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.544	2402.501	---	---
		2441	0.951	2440.541	2441.492	---	---
		2480	0.942	2479.550	2480.492	---	---
2DH5	Ant1	2402	1.287	2401.376	2402.663	---	---
		2441	1.335	2440.343	2441.678	---	---
		2480	1.329	2479.346	2480.675	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

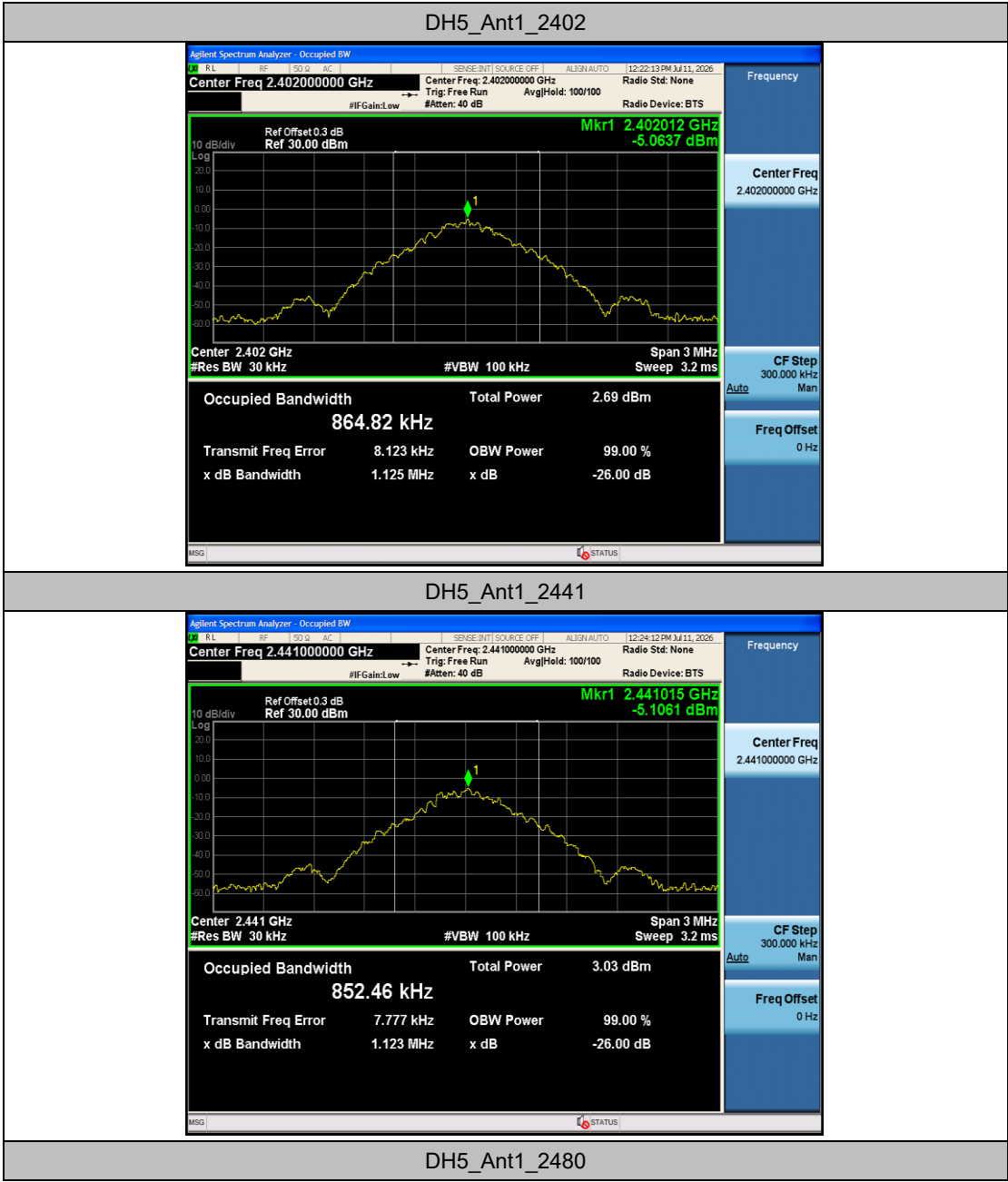


Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86482	2401.5757	2402.4405	---	---
		2441	0.85246	2440.5816	2441.4340	---	---
		2480	0.85317	2479.5867	2480.4399	---	---
2DH5	Ant1	2402	1.1879	2401.4178	2402.6057	---	---
		2441	1.1892	2440.4151	2441.6043	---	---
		2480	1.1935	2479.4146	2480.6081	---	---

Test Graphs



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result

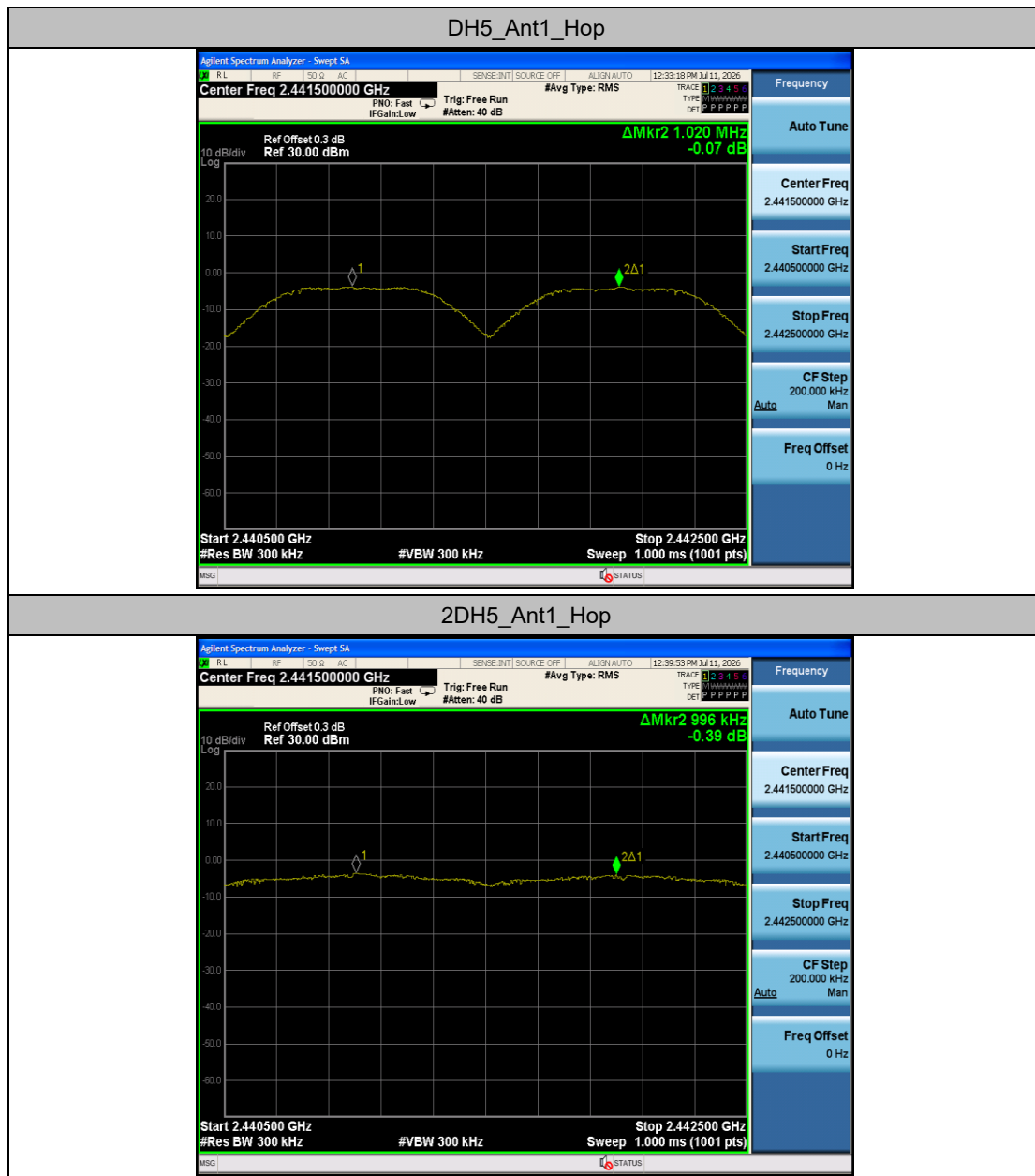
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.50	≤20.97	PASS
		2441	-3.54	≤20.97	PASS
		2480	-3.78	≤20.97	PASS
2DH5	Ant1	2402	-0.87	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-1.22	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥ 0.957	PASS
2DH5	Ant1	Hop	0.996	≥ 0.890	PASS

Test Graphs

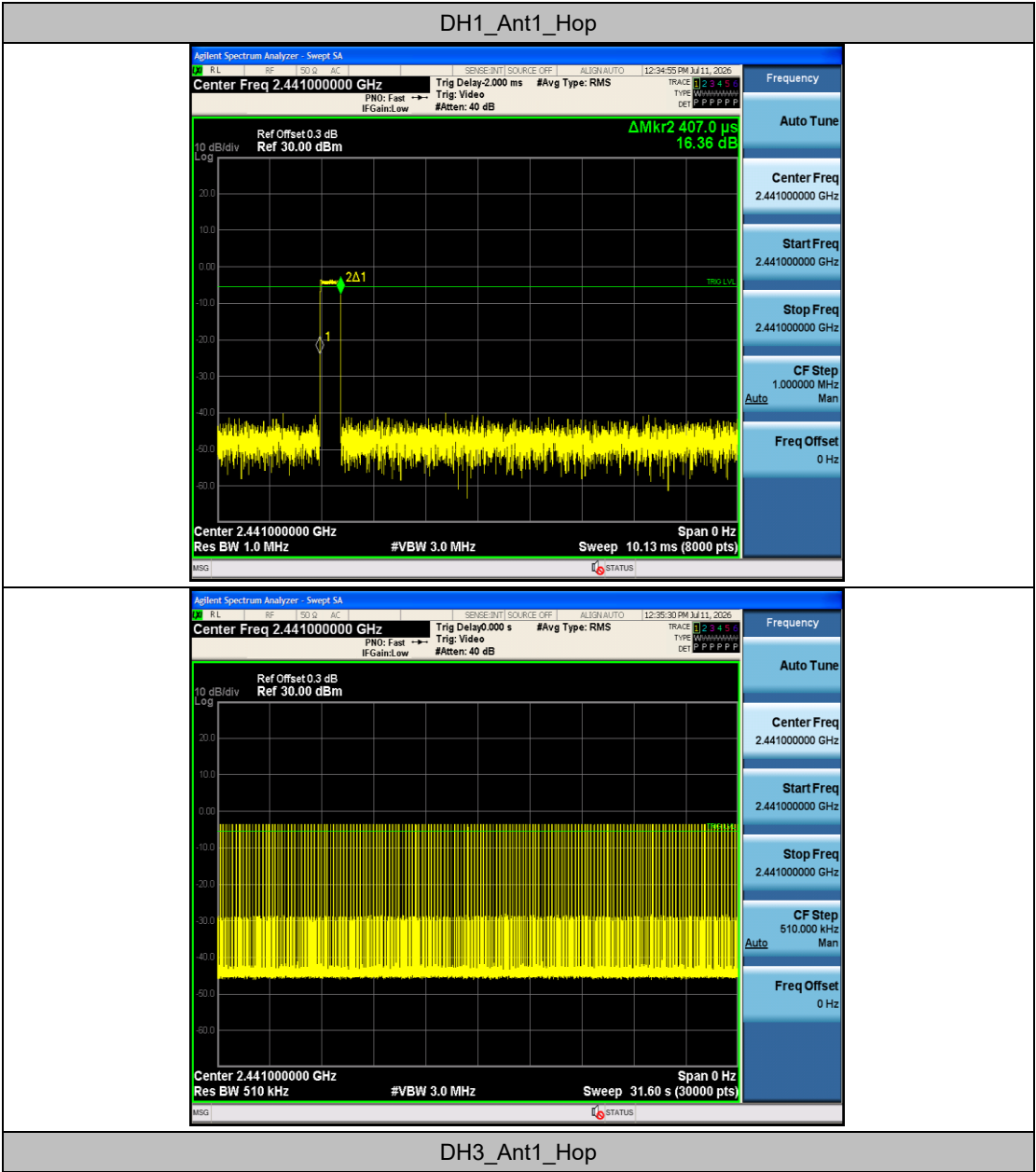


Appendix E: Time of occupancy

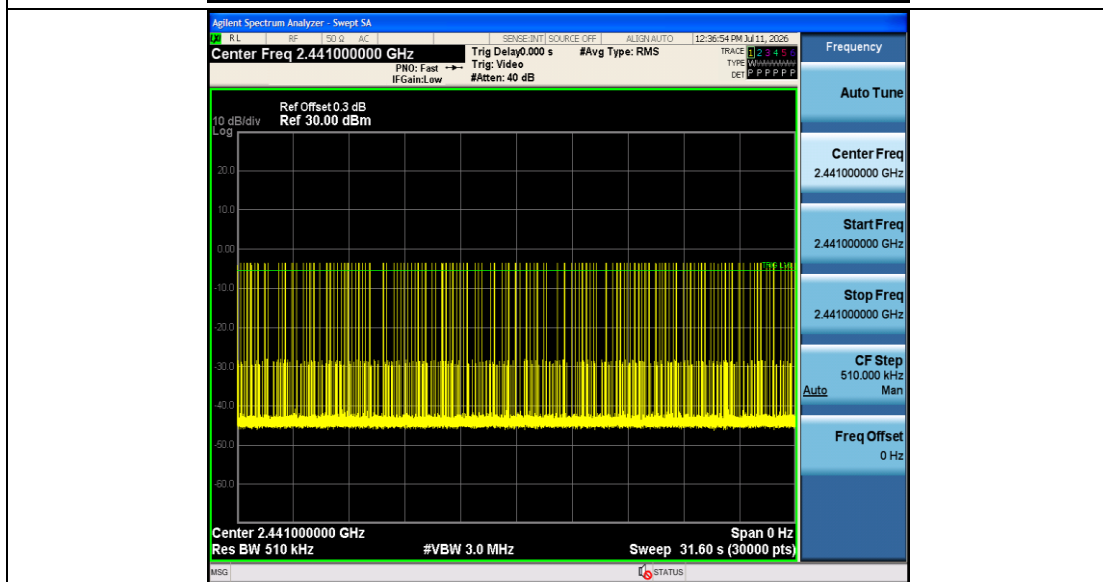
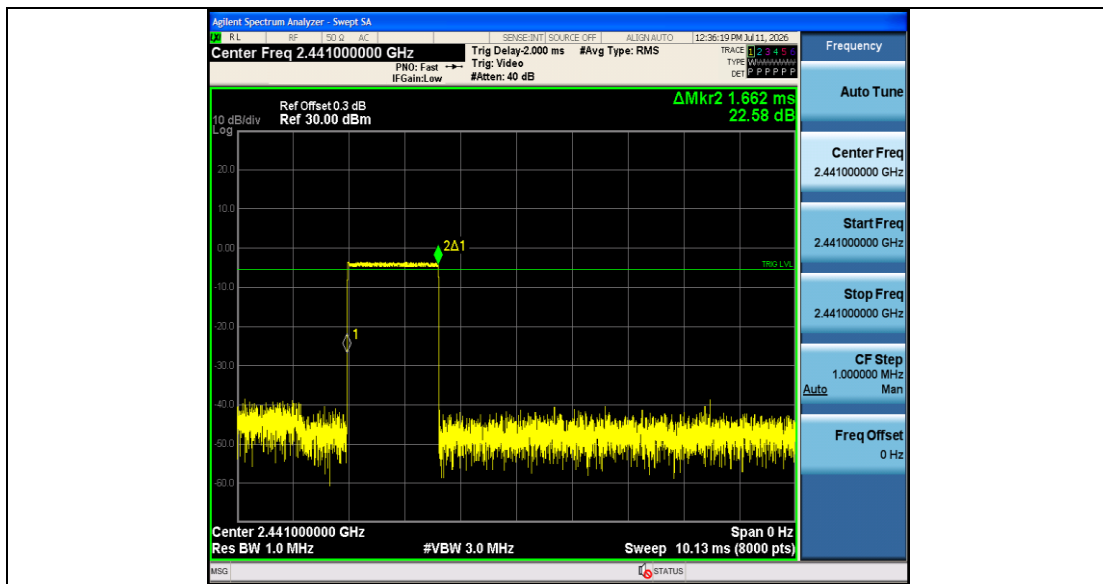
Test Result

Test Mode	Antenna	Freq(MHz)	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	317	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	172	0.286	≤0.4	PASS
DH5	Ant1	Hop	2.911	100	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.415	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.667	163	0.272	≤0.4	PASS
2DH5	Ant1	Hop	2.916	102	0.297	≤0.4	PASS

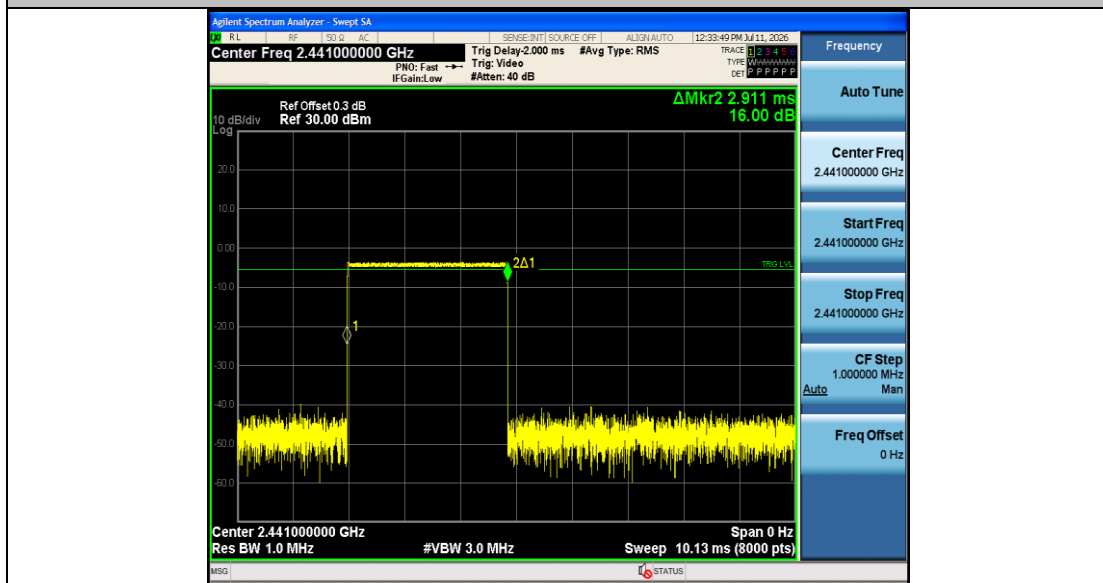
Test Graphs

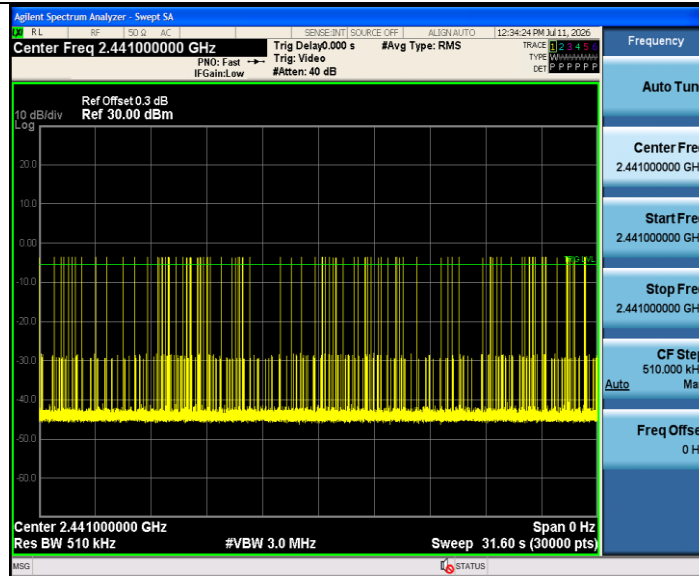


DH3_Ant1_Hop

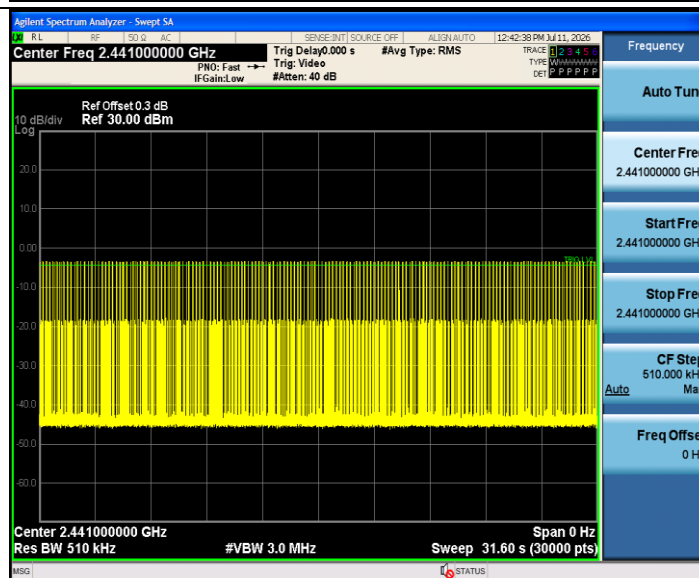
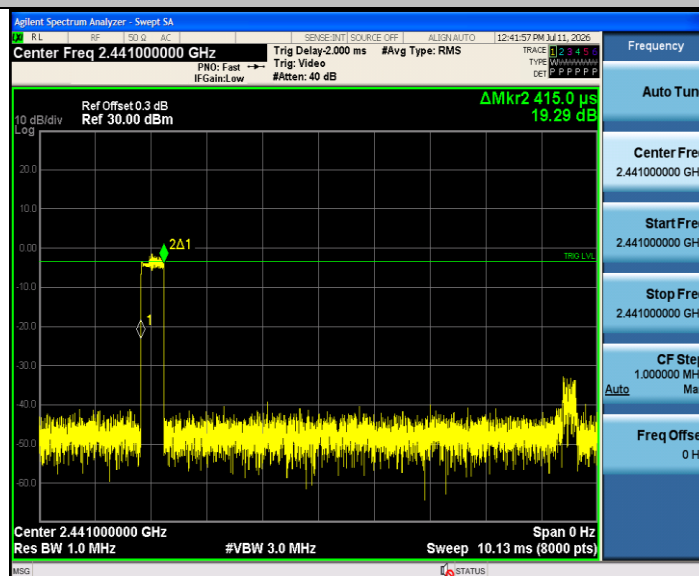


DH5_Ant1_Hop

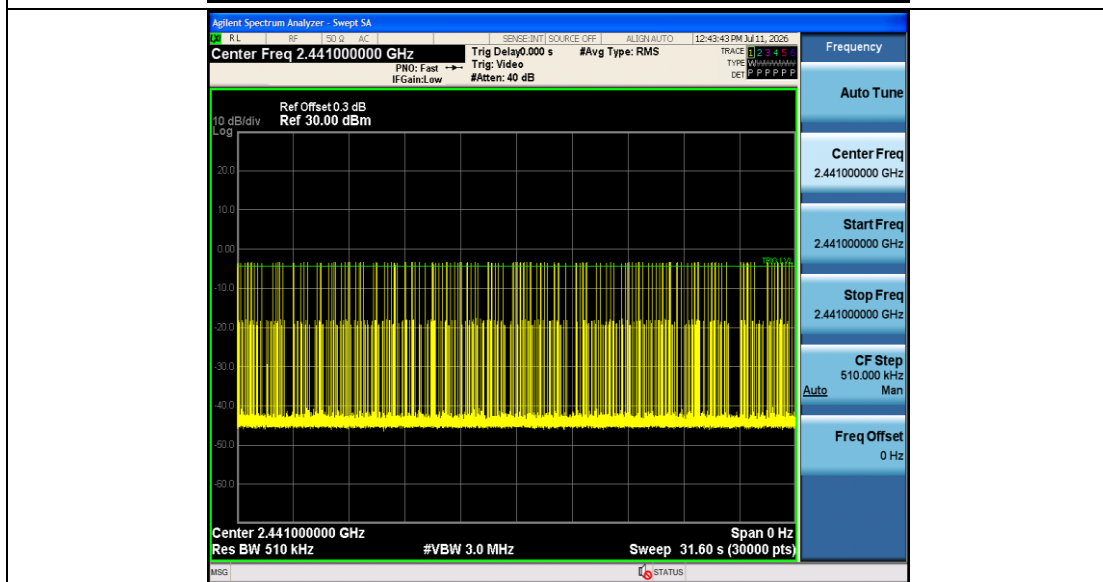
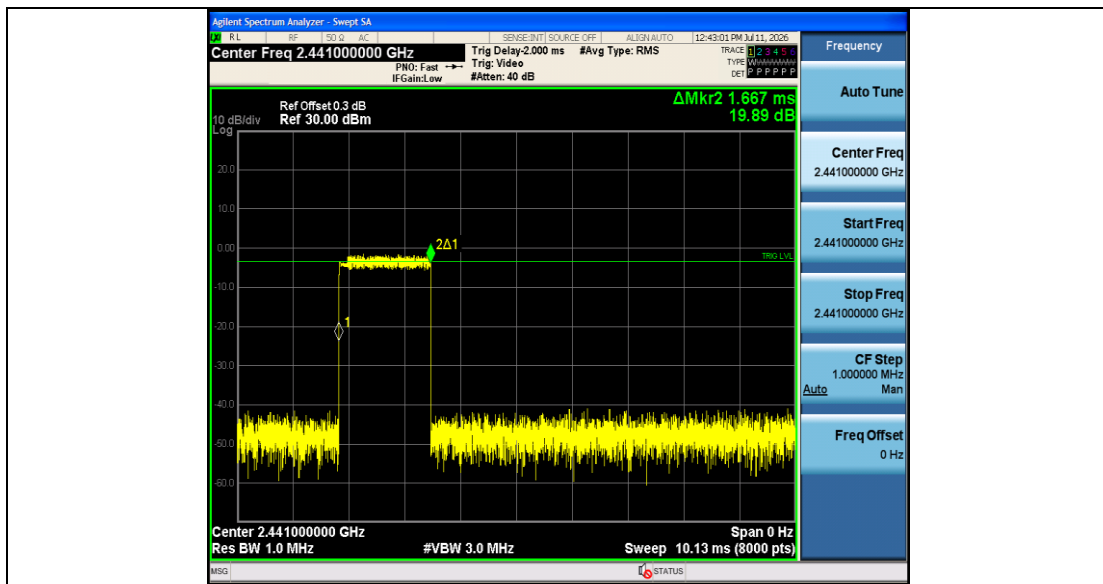




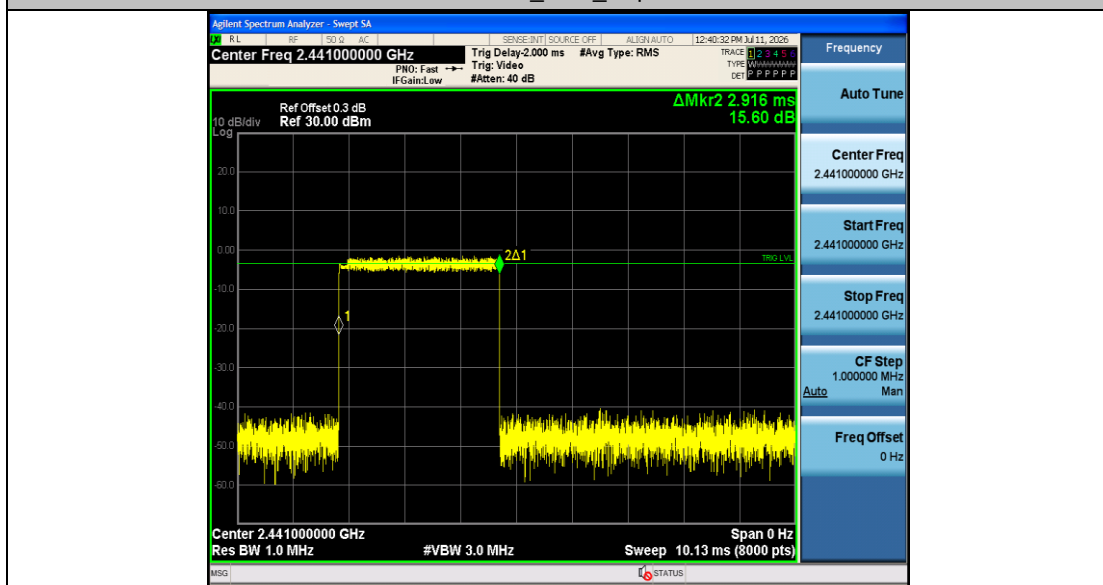
2DH1_Ant1_Hop

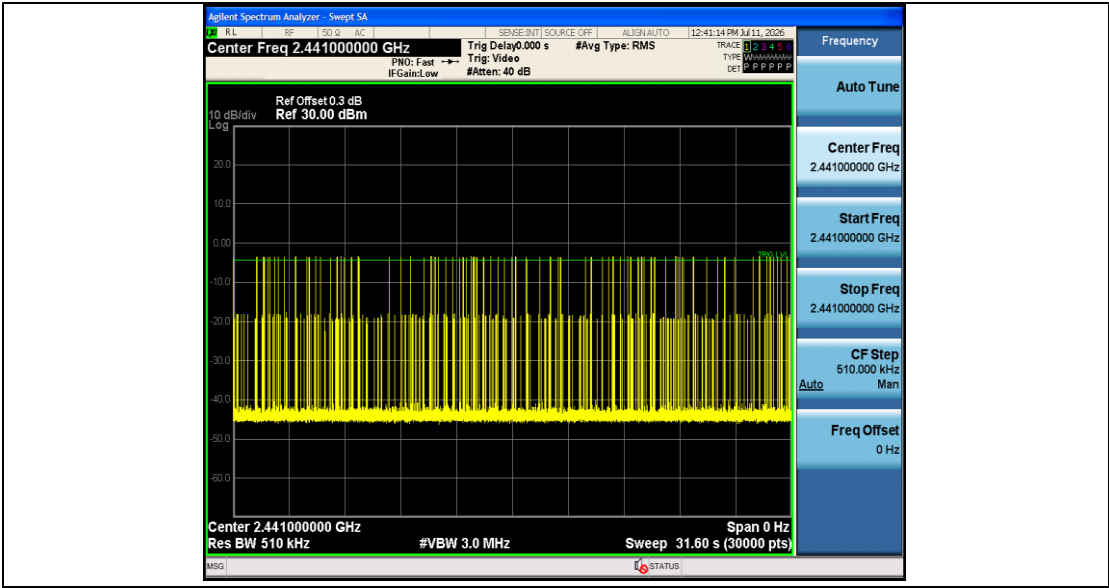


2DH3_Ant1_Hop



2DH5_Ant1_Hop



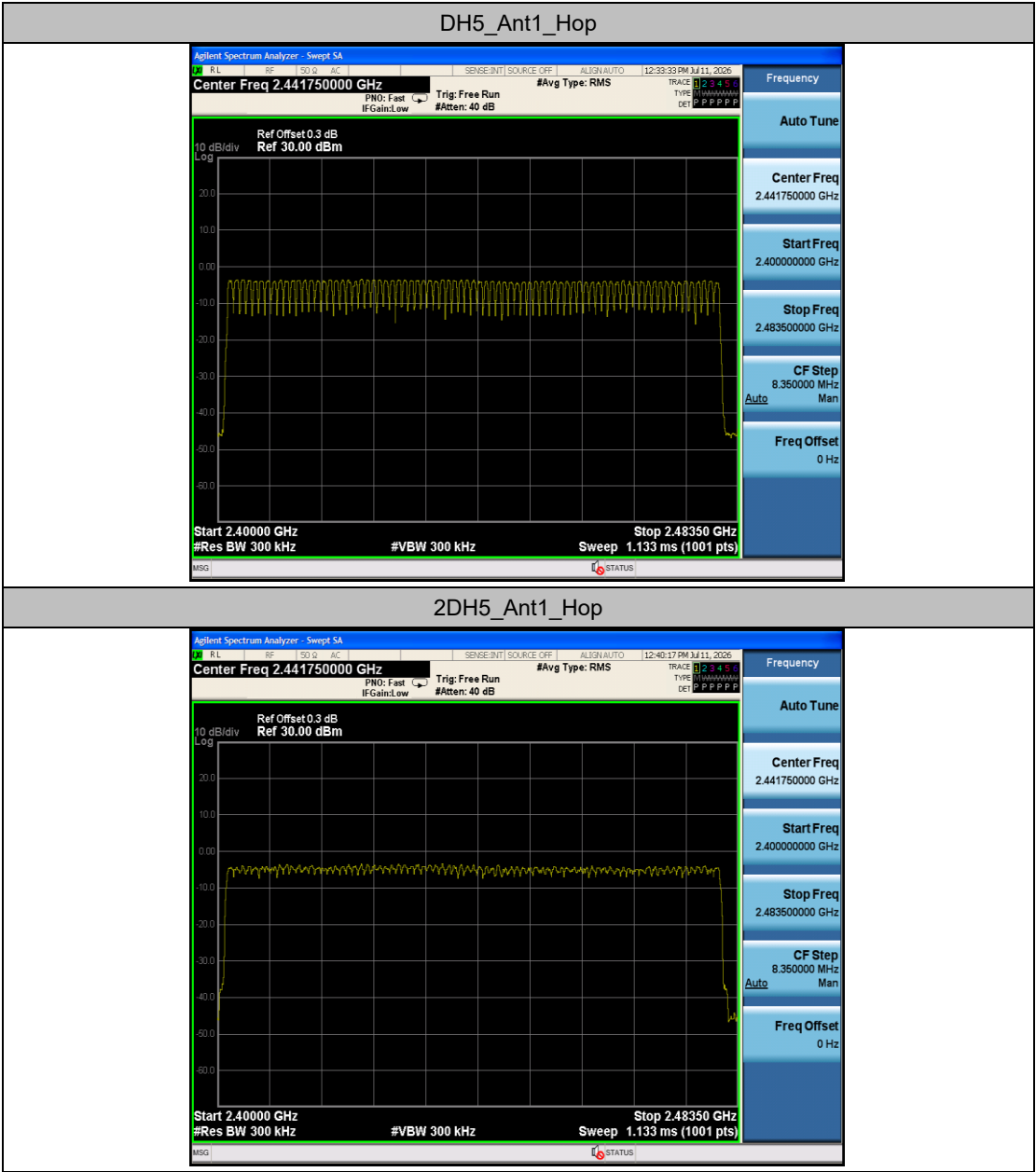


Appendix F: Number of hopping channels

Test Result

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

Test Graphs

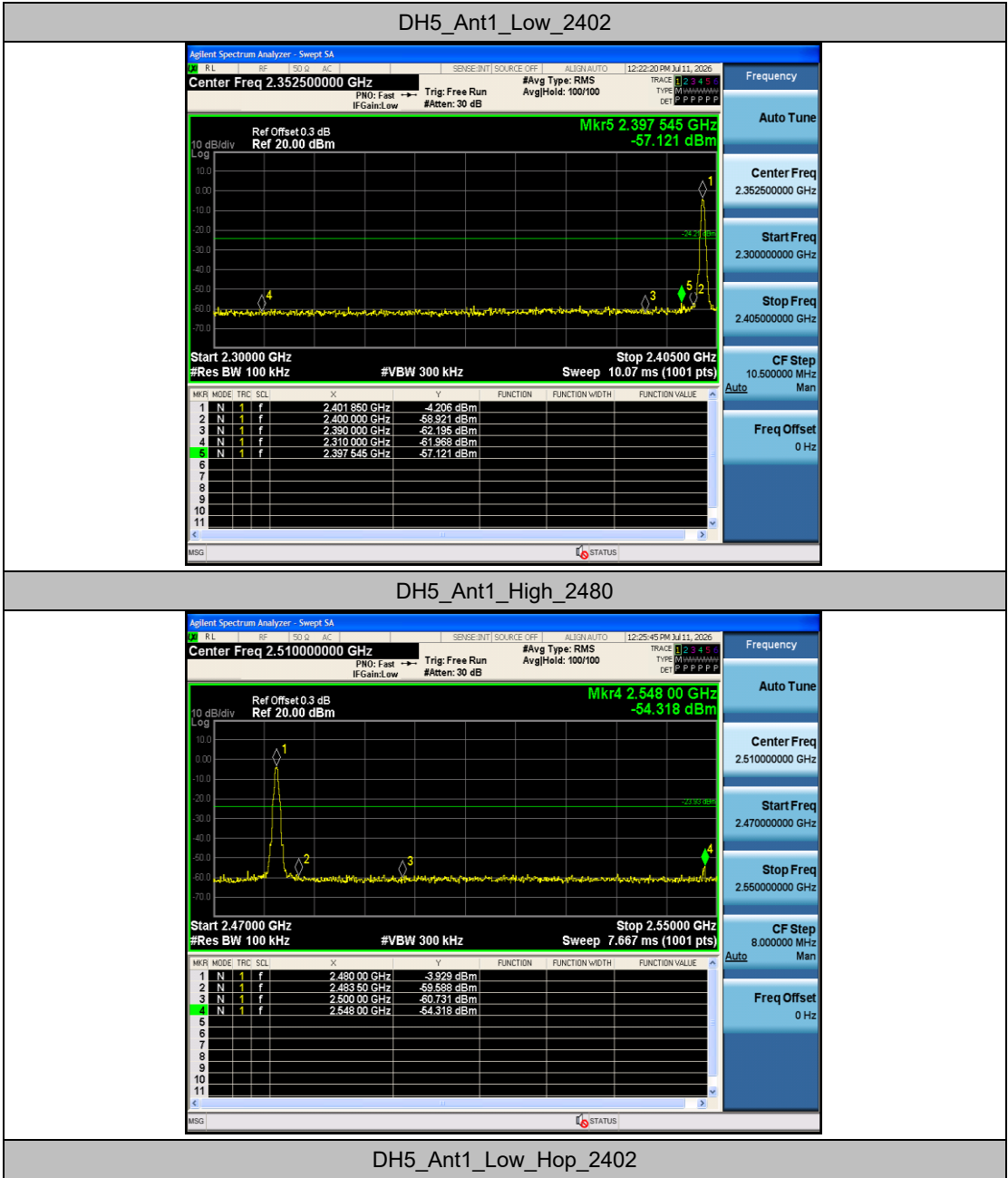


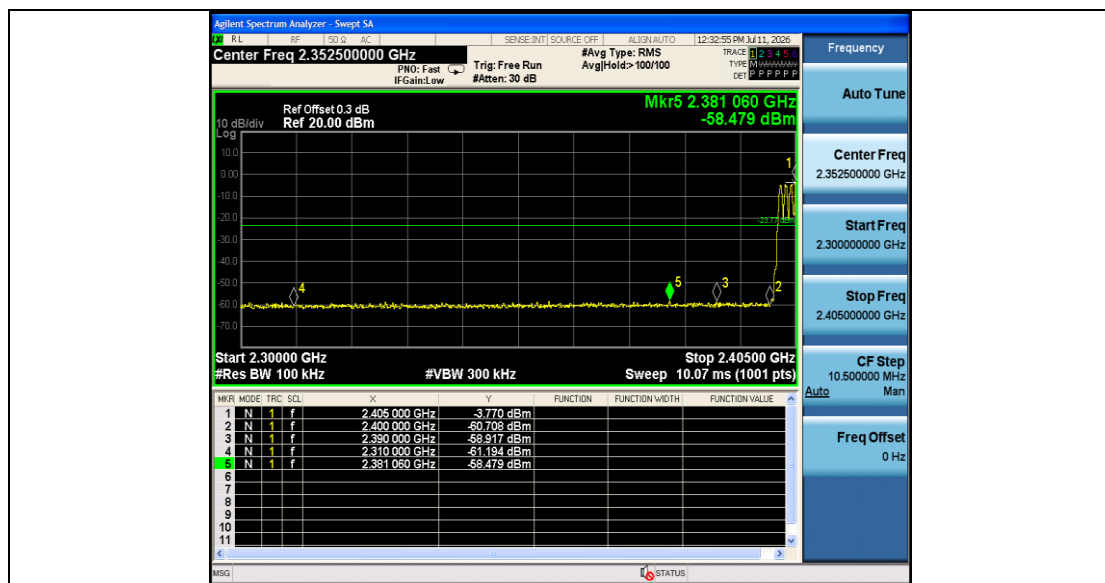
Appendix G: Band edge measurements

Test Result

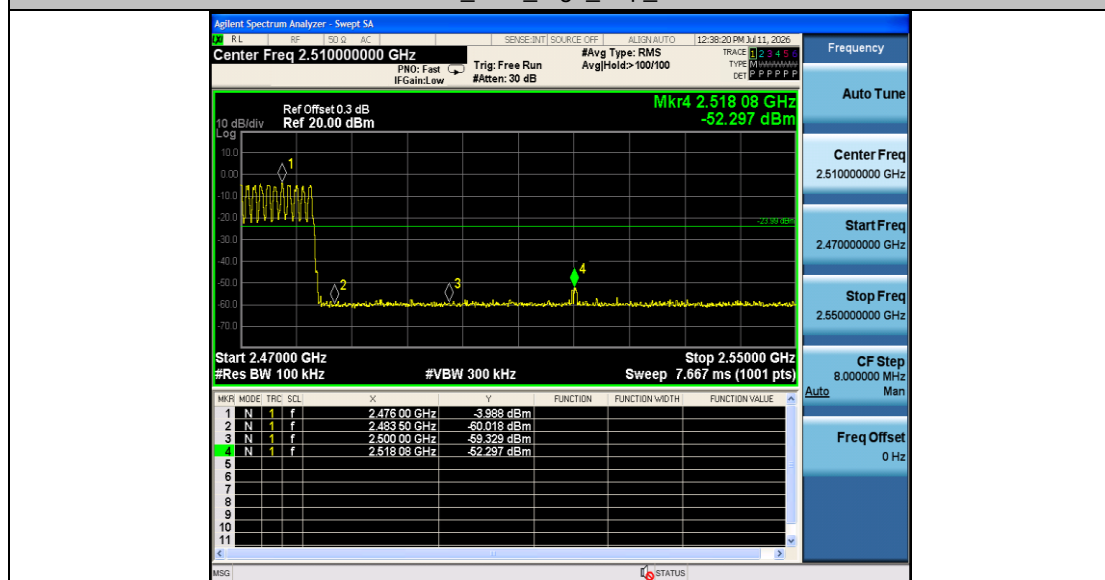
Test Mode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.21	-57.12	≤-24.21	PASS
		High	2480	-3.93	-54.32	≤-23.93	PASS
		Low	Hop_2402	-3.77	-58.48	≤-23.77	PASS
		High	Hop_2480	-3.99	-52.3	≤-23.99	PASS
2DH5	Ant1	Low	2402	-4.90	-56.75	≤-24.9	PASS
		High	2480	-5.56	-55.06	≤-25.56	PASS
		Low	Hop_2402	-6.60	-57.57	≤-26.6	PASS
		High	Hop_2480	-7.75	-45.29	≤-27.75	PASS

Test Graphs

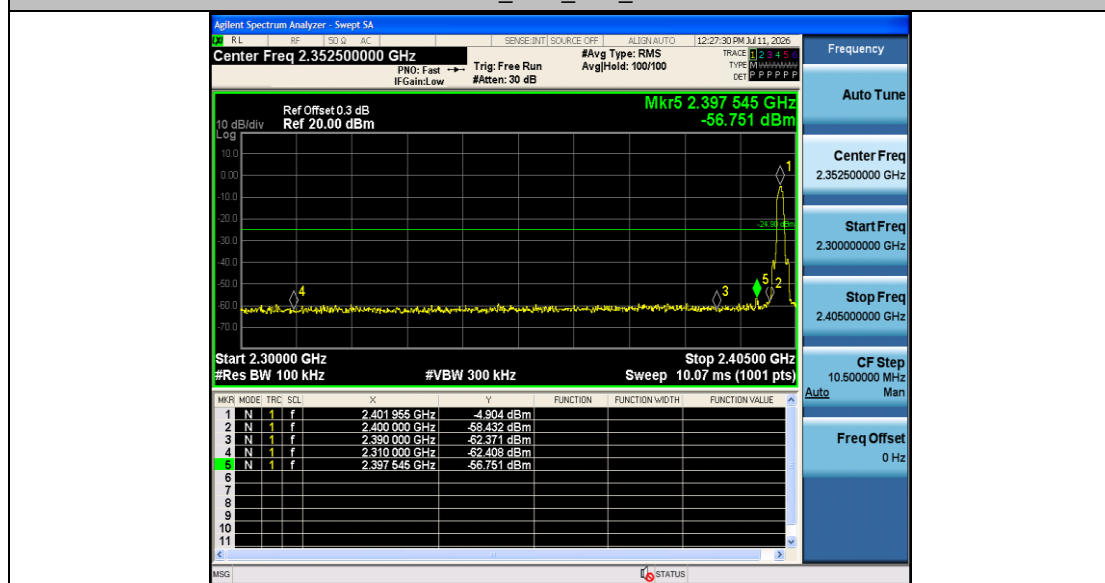




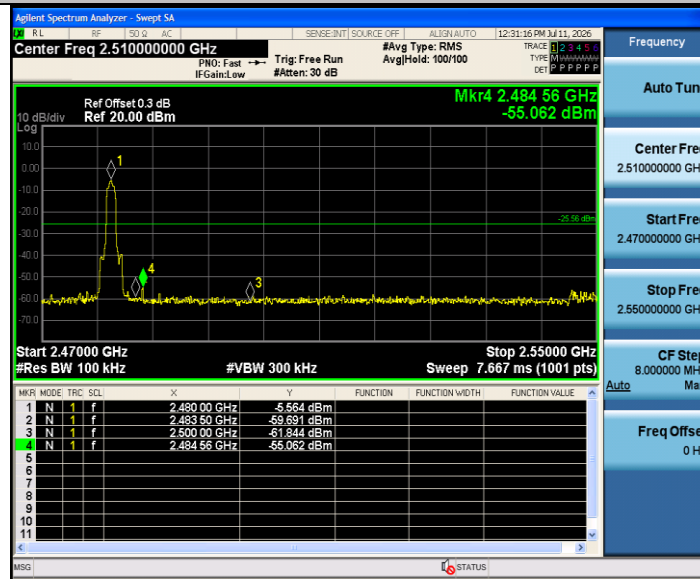
DH5_Ant1_High_Hop_2480



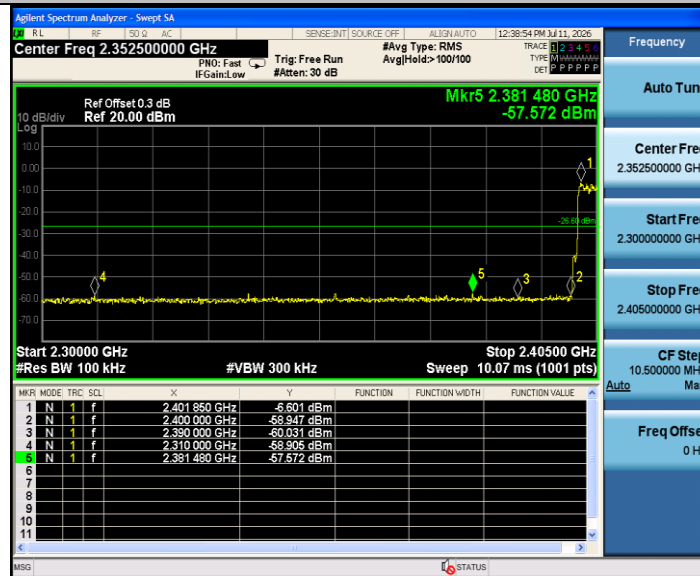
2DH5_Ant1_Low_2402



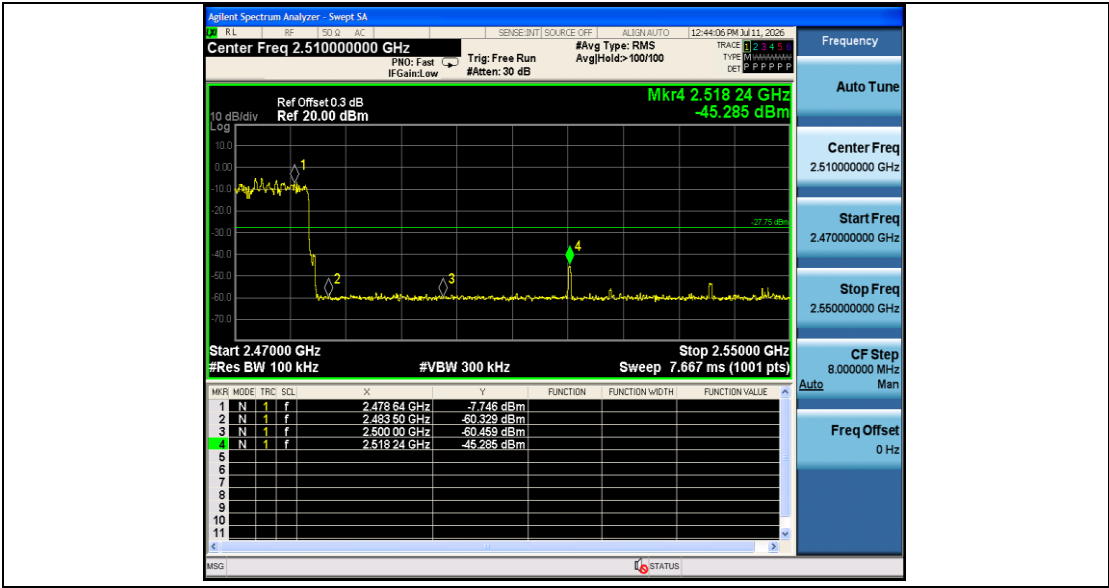
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

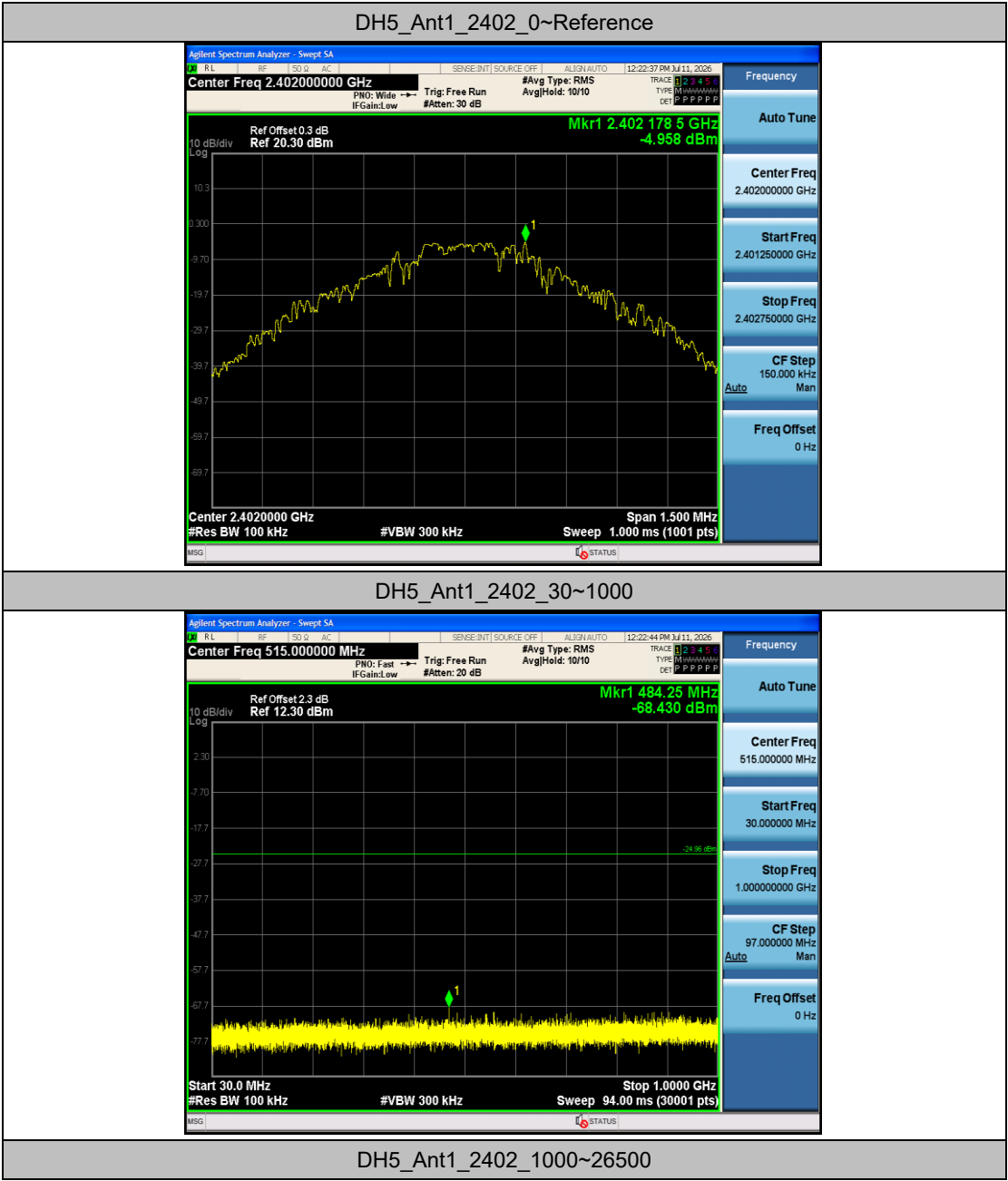


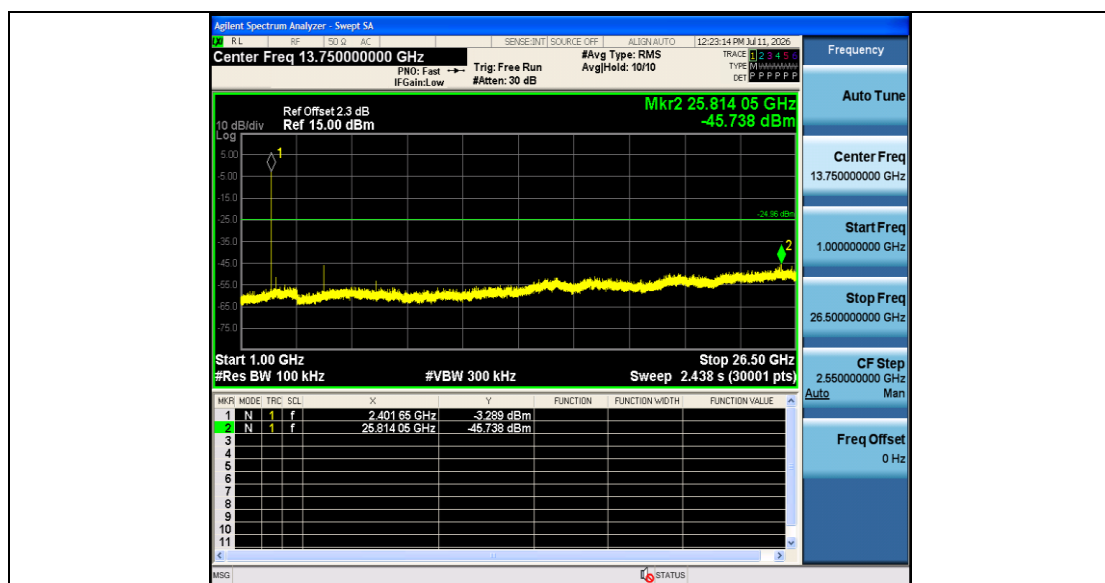
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.96	-4.96	---	PASS
			30~1000	-4.96	-68.43	≤-24.96	PASS
			1000~26500	-4.96	-45.74	≤-24.96	PASS
		2441	Reference	-4.78	-4.78	---	PASS
			30~1000	-4.78	-69.14	≤-24.78	PASS
			1000~26500	-4.78	-43.69	≤-24.78	PASS
		2480	Reference	-5.26	-5.26	---	PASS
			30~1000	-5.26	-69.53	≤-25.26	PASS
			1000~26500	-5.26	-46.22	≤-25.26	PASS
2DH5	Ant1	2402	Reference	-6.59	-6.59	---	PASS
			30~1000	-6.59	-69.42	≤-26.59	PASS
			1000~26500	-6.59	-47.21	≤-26.59	PASS
		2441	Reference	-5.92	-5.92	---	PASS
			30~1000	-5.92	-68.8	≤-25.92	PASS
			1000~26500	-5.92	-46.31	≤-25.92	PASS
		2480	Reference	-3.98	-3.98	---	PASS
			30~1000	-3.98	-68.94	≤-23.98	PASS
			1000~26500	-3.98	-45.97	≤-23.98	PASS

Test Graphs

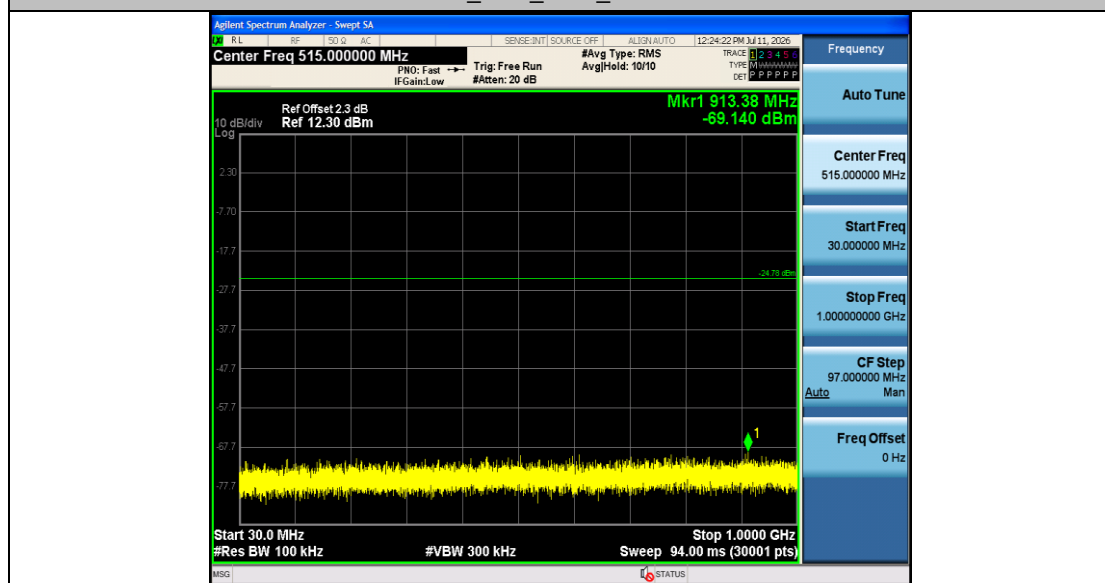




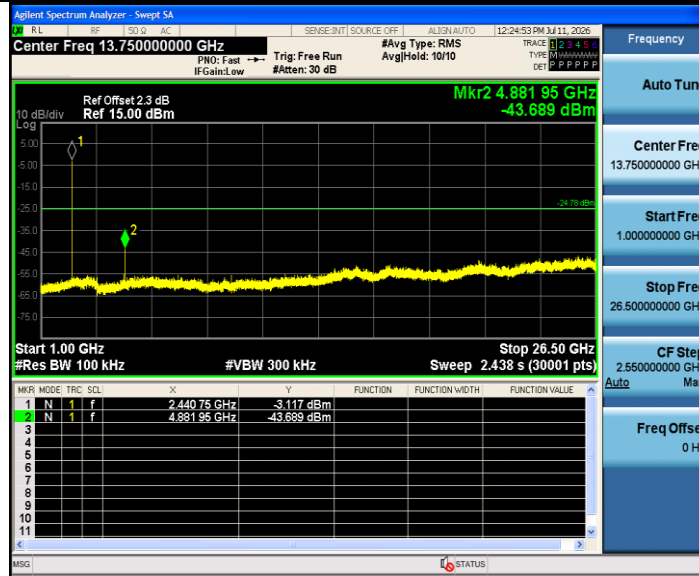
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



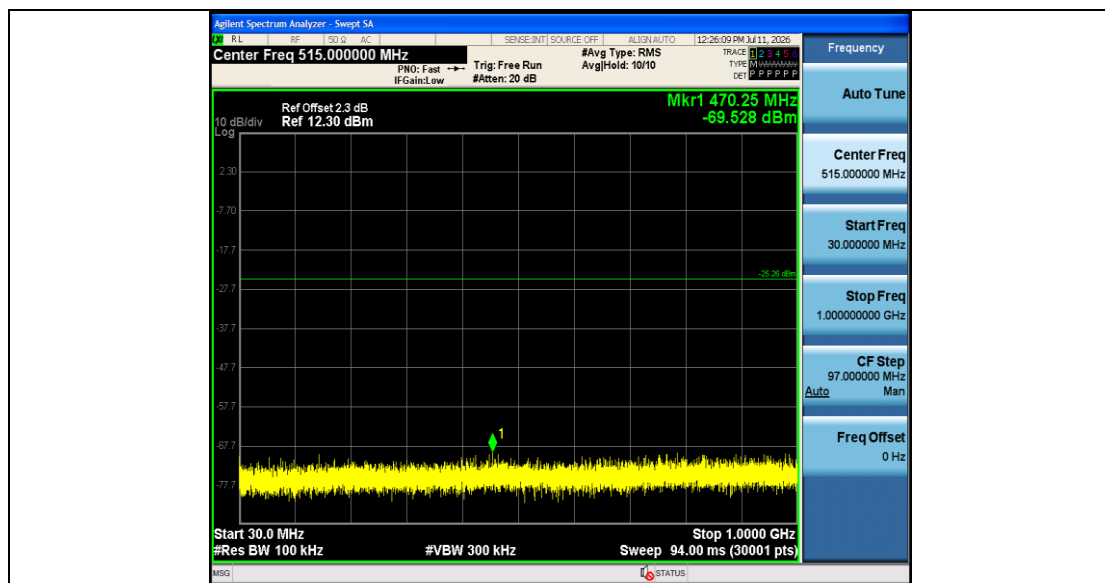
DH5_Ant1_2441_1000~26500



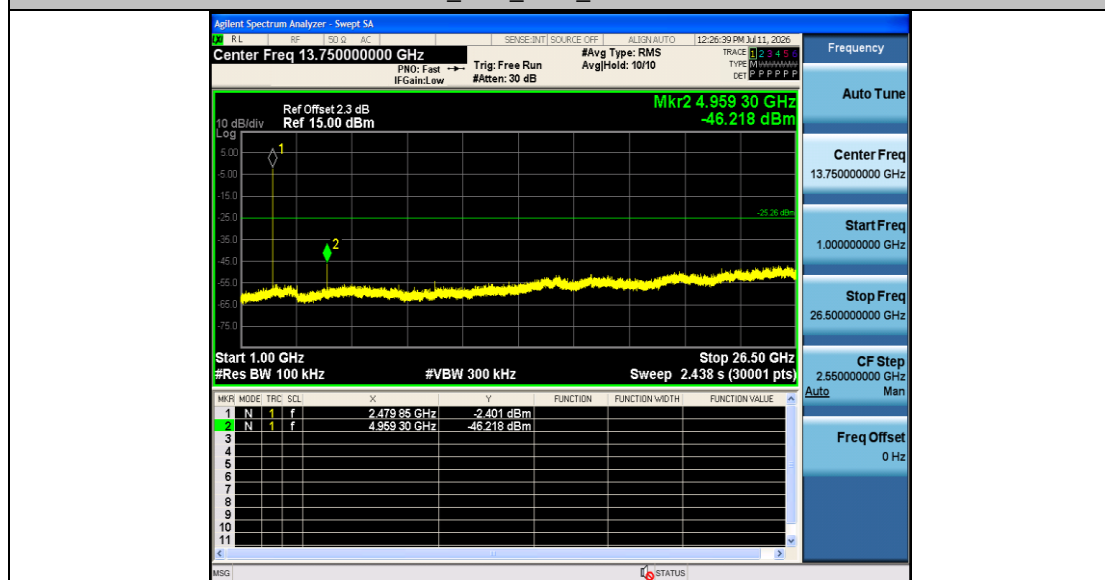
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



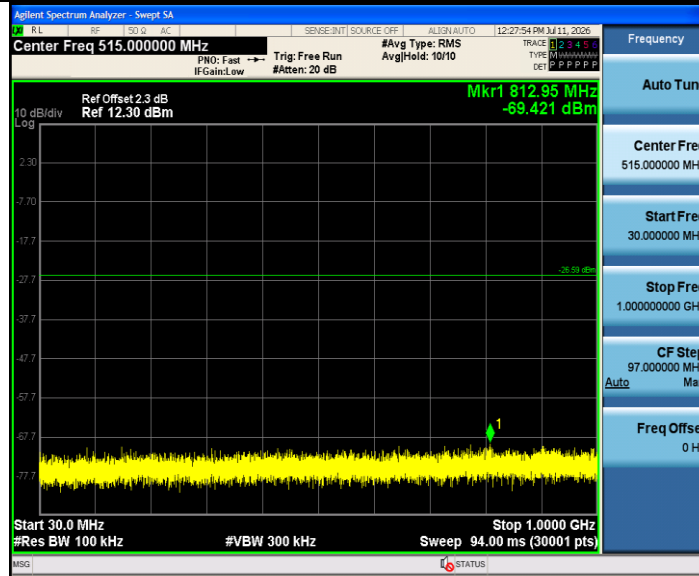
DH5_Ant1_2480_1000~26500



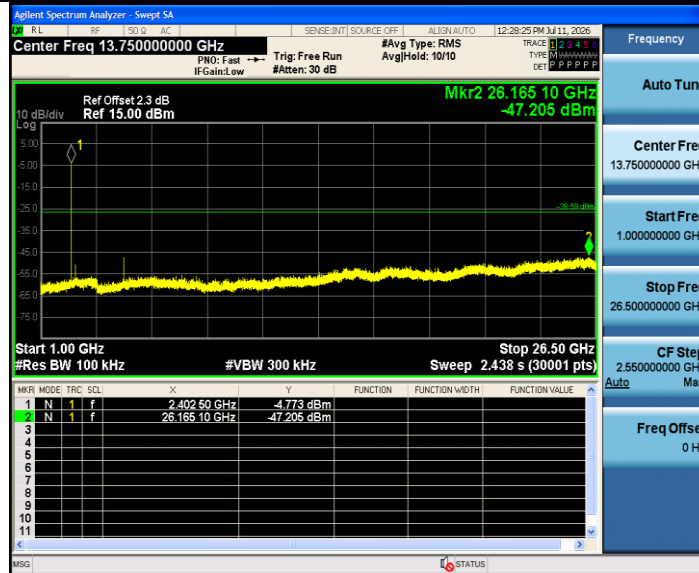
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



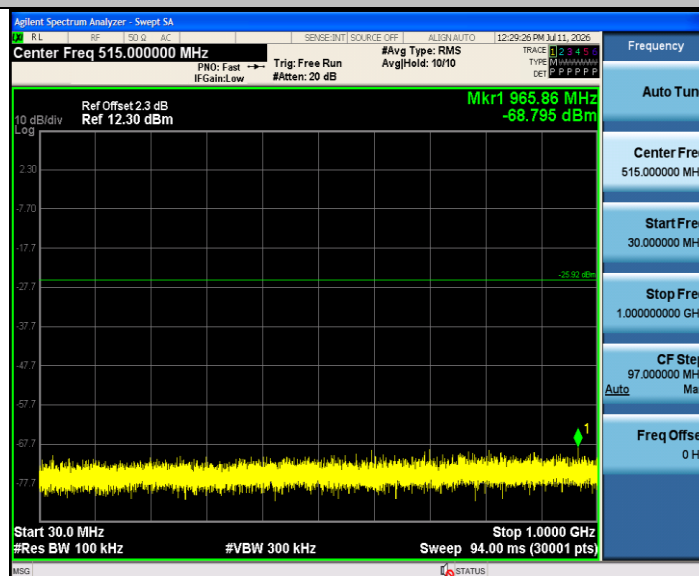
2DH5_Ant1_2402_1000~26500



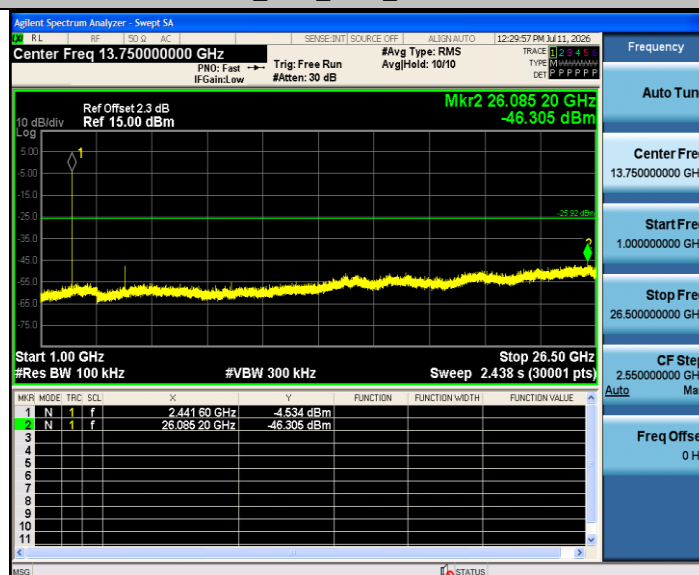
2DH5_Ant1_2441_0~Reference



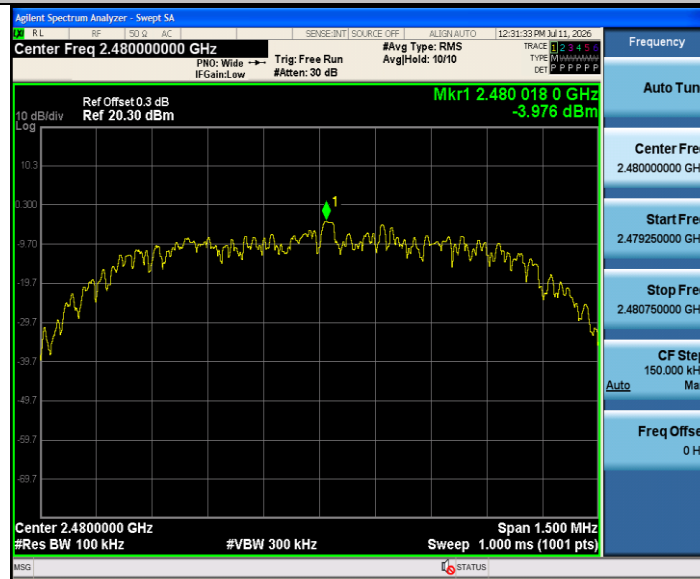
2DH5_Ant1_2441_30~1000



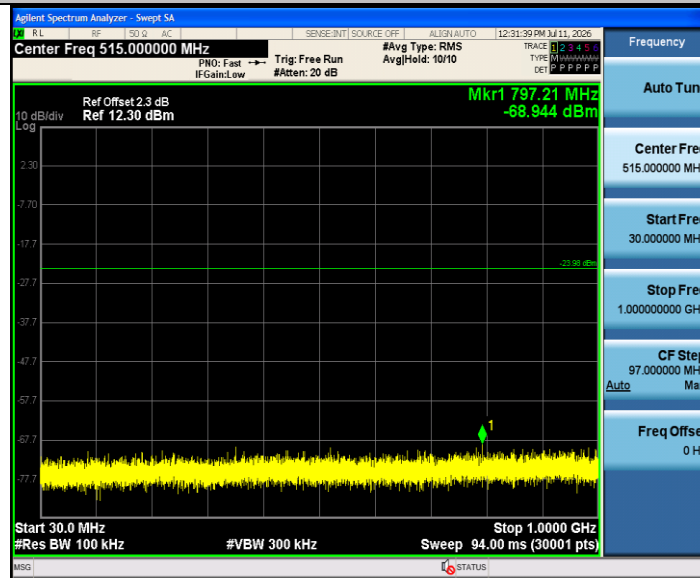
2DH5_Ant1_2441_1000~26500



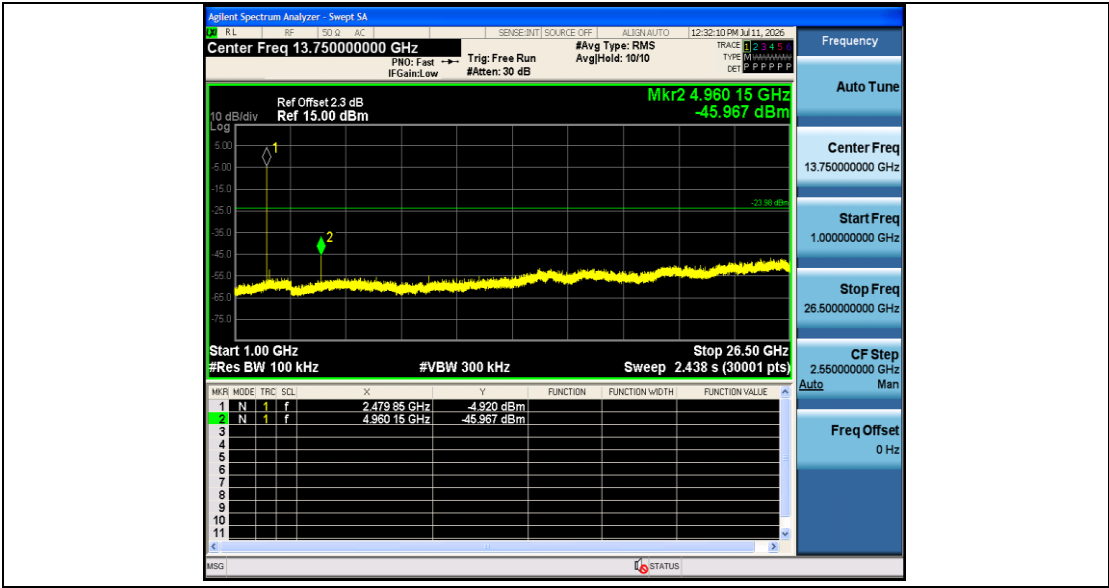
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



Appendix I: Duty Cycle

Test Result

Test Mode	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	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.74	77.81	1.09	---	---
		2480	2.92	3.76	77.66	1.10	---	---