

FCC Appendix RF Test Data for BT

FCC ID : 2BRST-M31

Company : Shenzhen City Meimeiyizu Technology CO., LTD

EUT : FILL LIGHT

Model Number : M31

Report No. : CTA26033101401

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	0.945	2401.553	2402.498	---	---
		2441	0.957	2440.547	2441.504	---	---
		2480	0.939	2479.553	2480.492	---	---
2DH5	Ant1	2402	1.281	2401.379	2402.660	---	---
		2441	1.323	2440.349	2441.672	---	---
		2480	1.278	2479.385	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

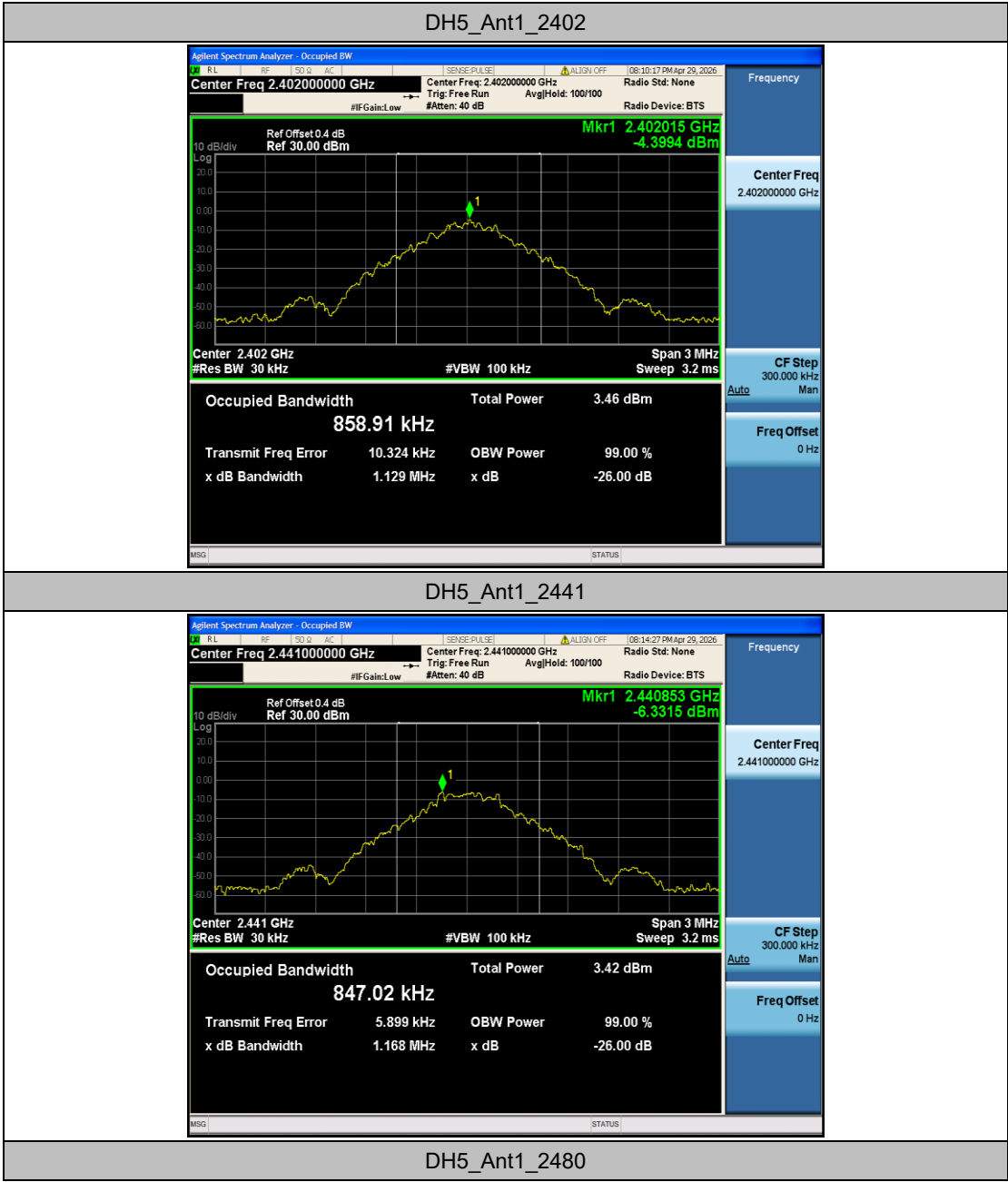


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85891	2401.5809	2402.4398	---	---
		2441	0.84702	2440.5824	2441.4294	---	---
		2480	0.87127	2479.5747	2480.4460	---	---
2DH5	Ant1	2402	1.1936	2401.4132	2402.6068	---	---
		2441	1.1797	2440.4231	2441.6028	---	---
		2480	1.1884	2479.4183	2480.6067	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

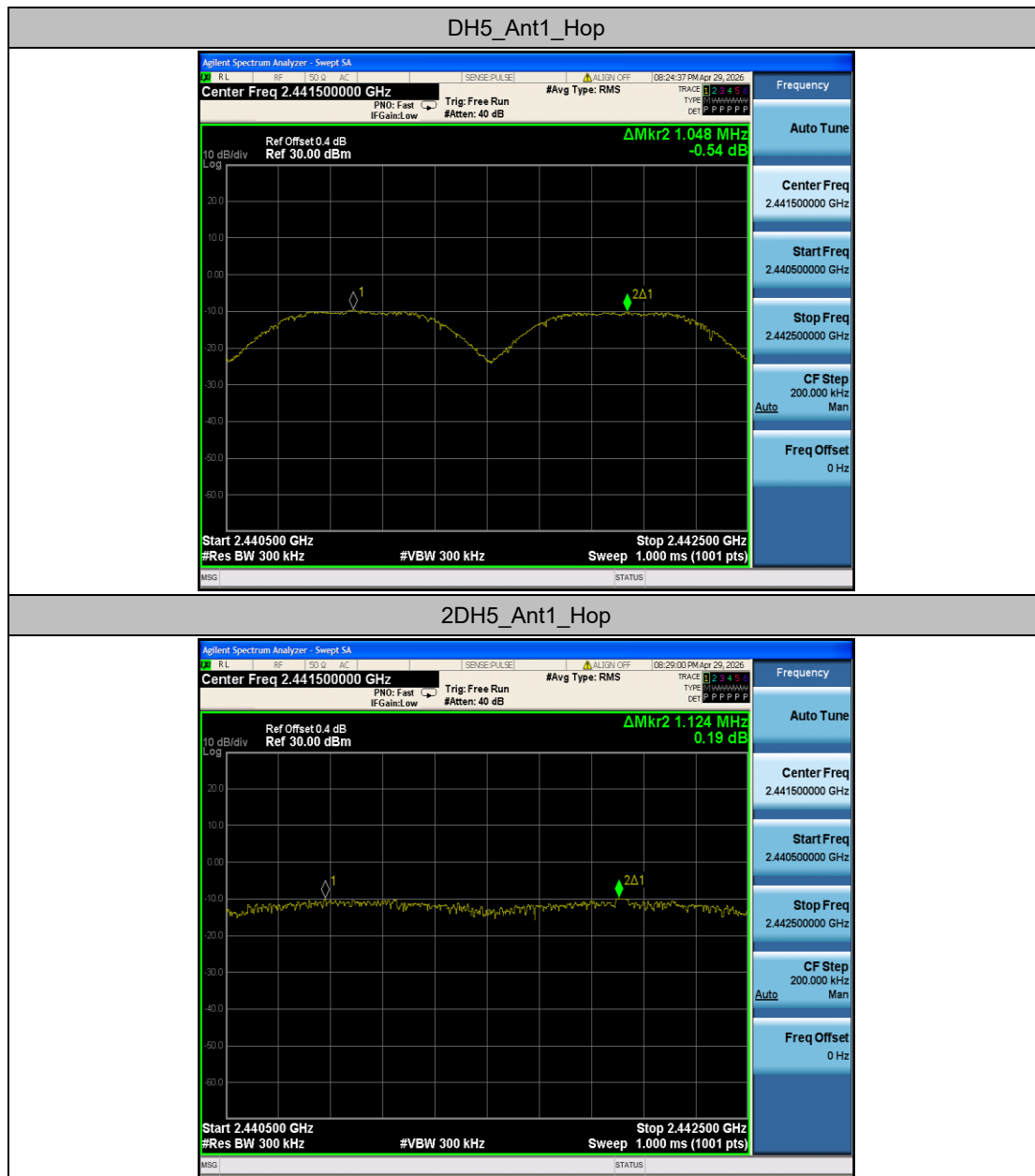
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-2.86	≤20.97	PASS
		2441	-3.10	≤20.97	PASS
		2480	-3.19	≤20.97	PASS
2DH5	Ant1	2402	-6.96	≤20.97	PASS
		2441	-7.20	≤20.97	PASS
		2480	-7.24	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.048	≥ 0.957	PASS
2DH5	Ant1	Hop	1.124	≥ 0.882	PASS

Test Graphs

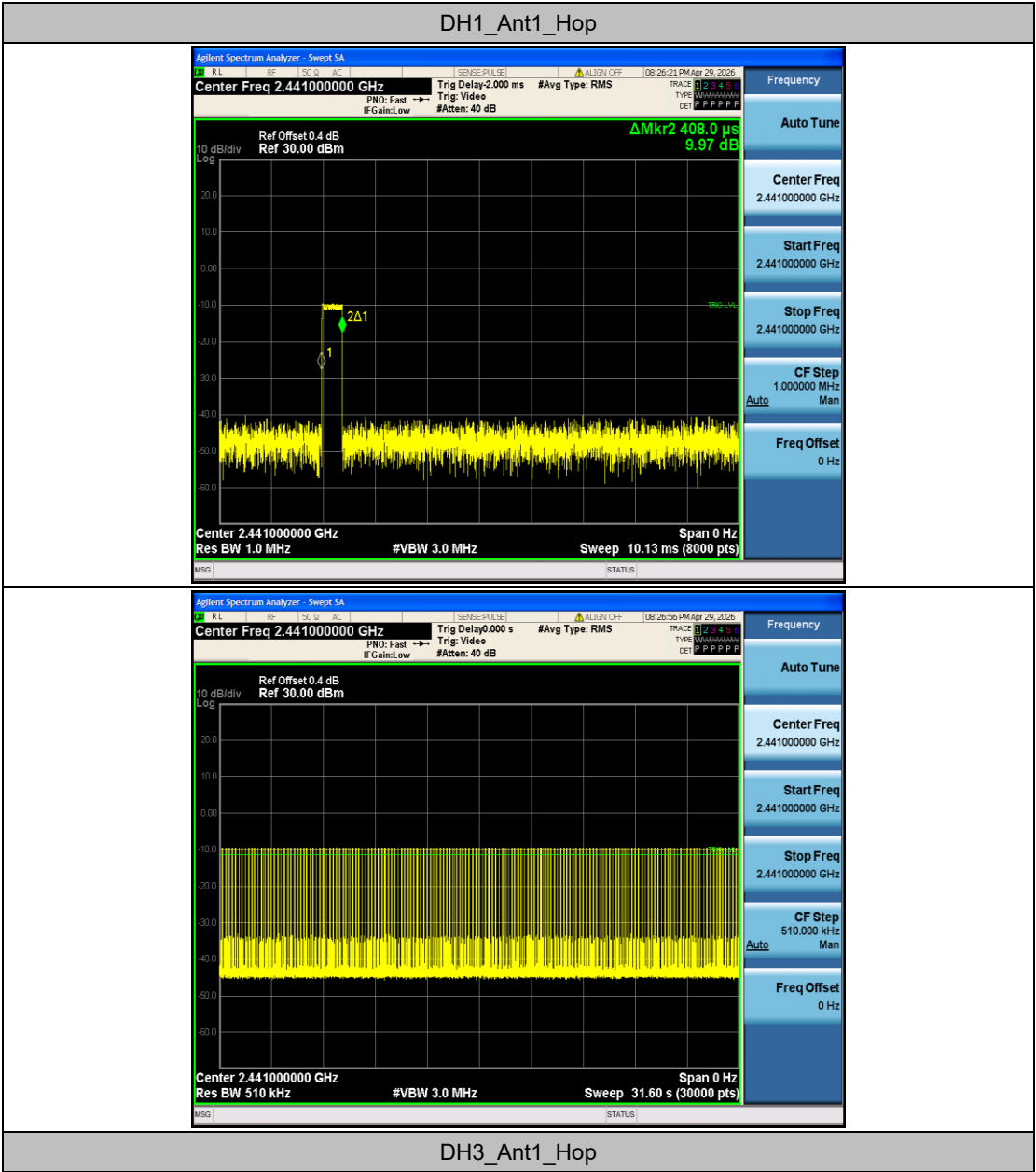


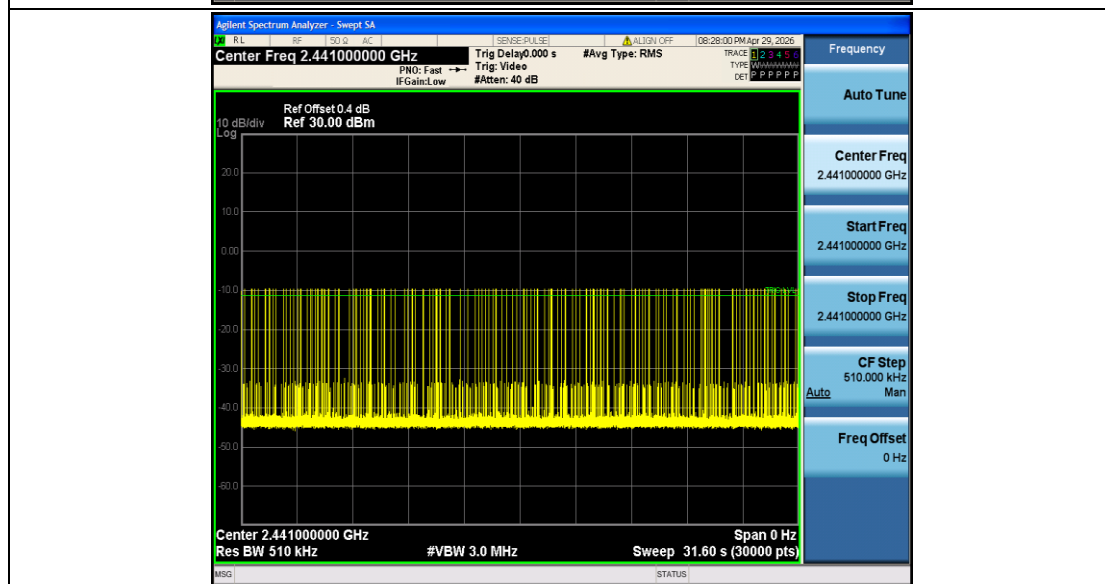
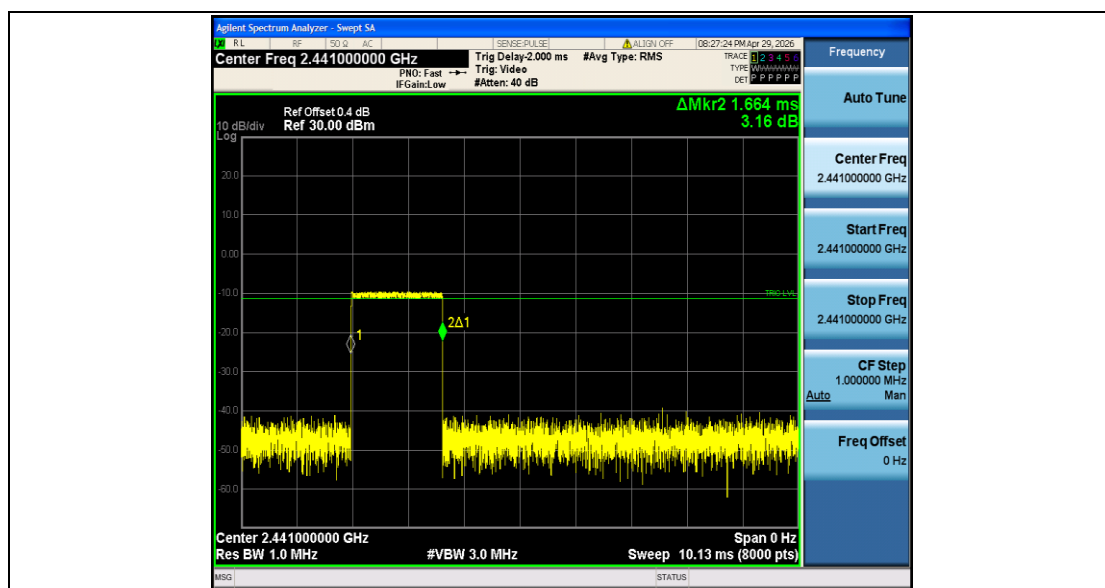
Appendix E: Time of occupancy

Test Result

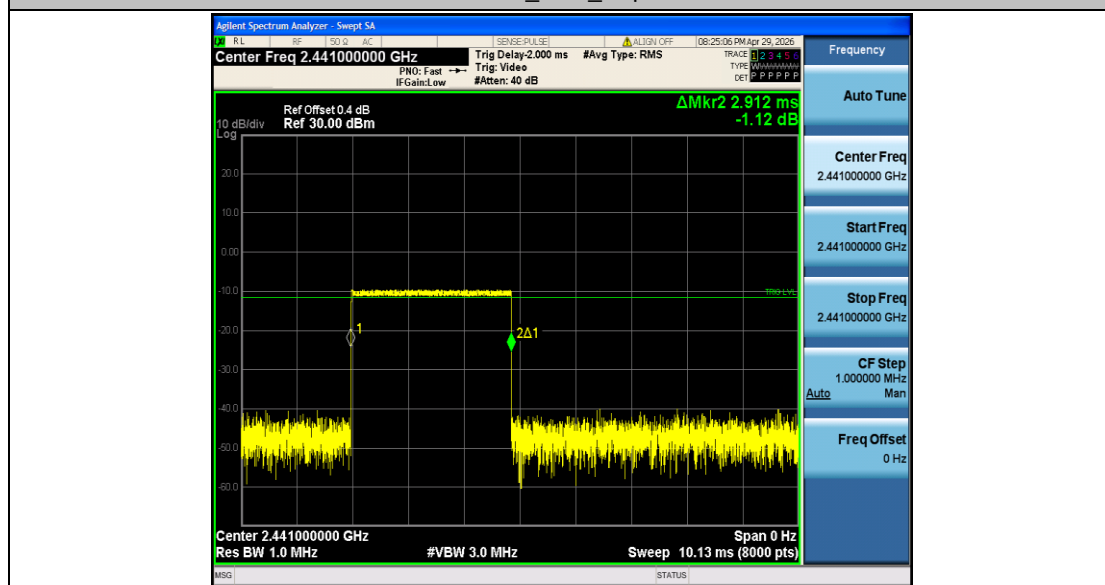
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.408	315	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.664	164	0.273	≤0.4	PASS
DH5	Ant1	Hop	2.912	107	0.312	≤0.4	PASS
2DH1	Ant1	Hop	0.417	316	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	161	0.269	≤0.4	PASS
2DH5	Ant1	Hop	2.916	115	0.335	≤0.4	PASS

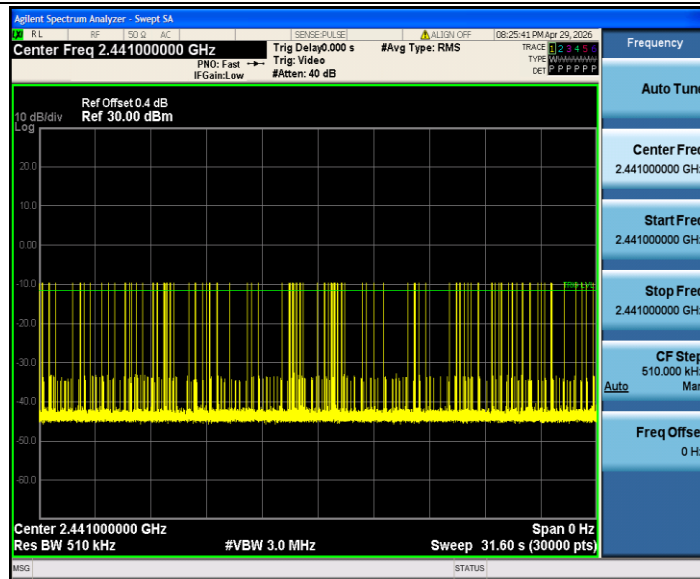
Test Graphs



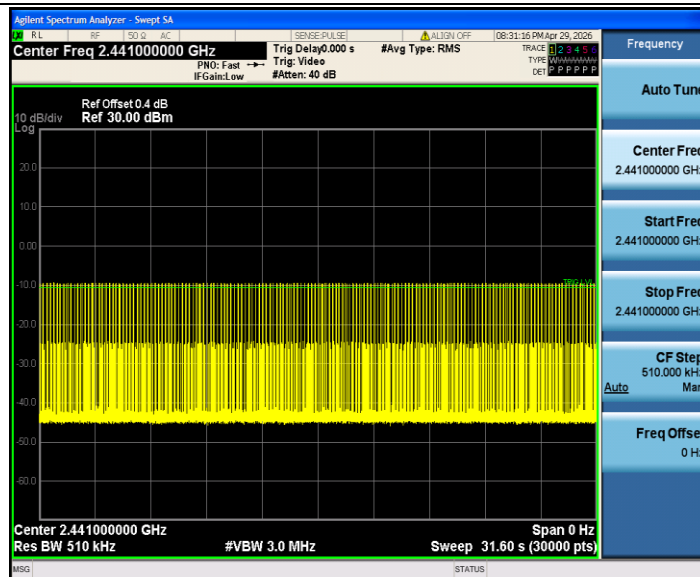
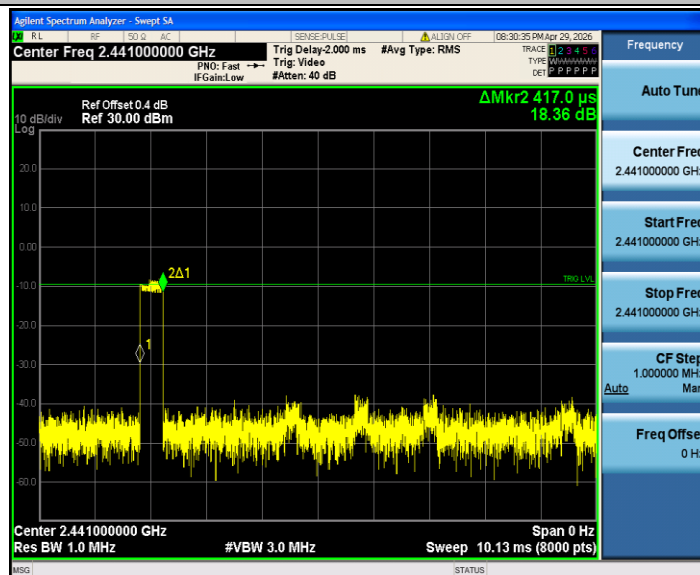


DH5_Ant1_Hop

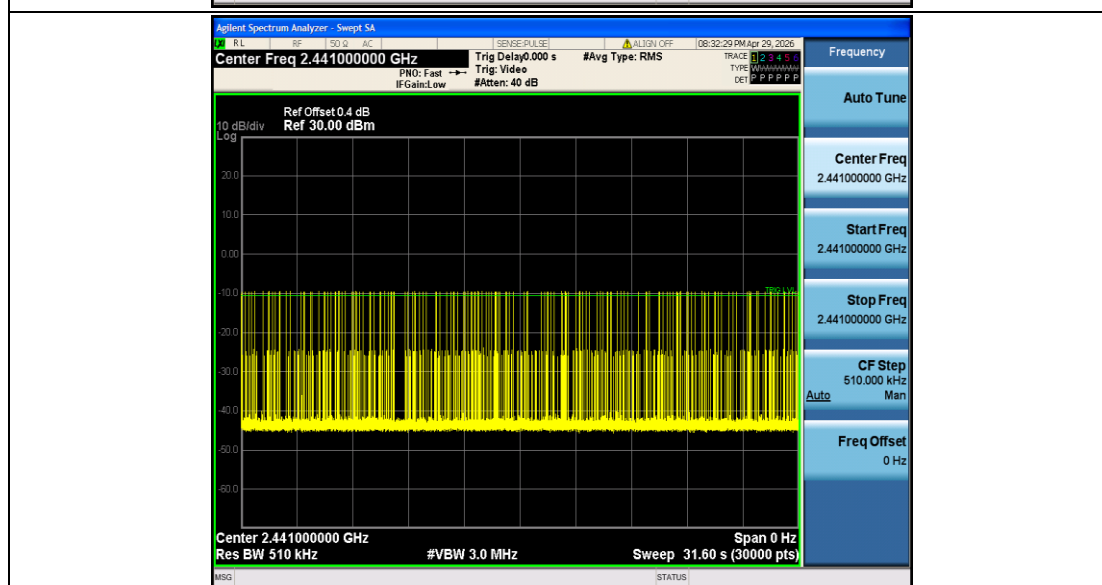
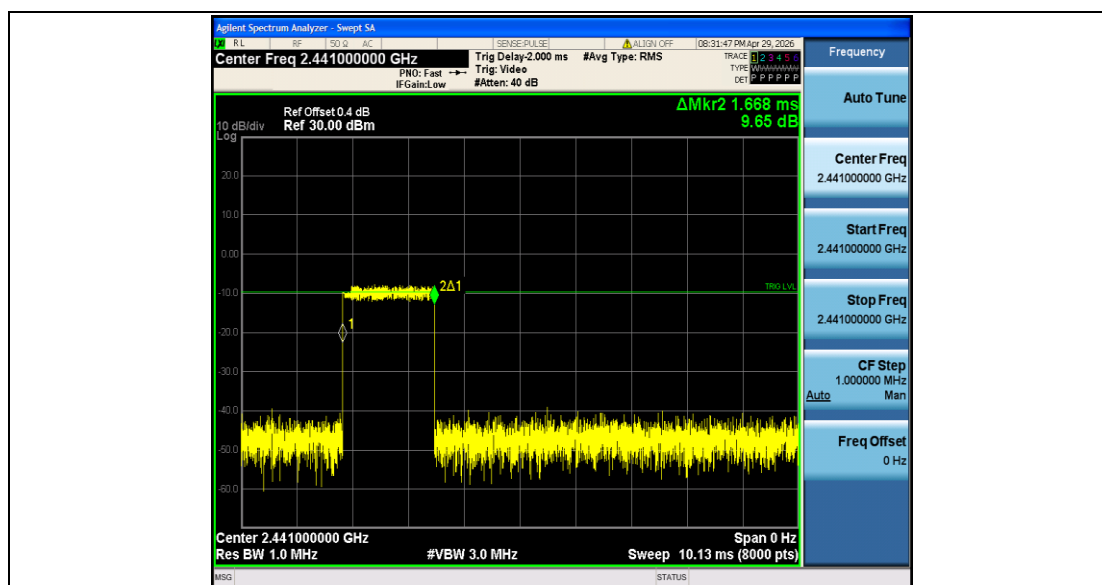




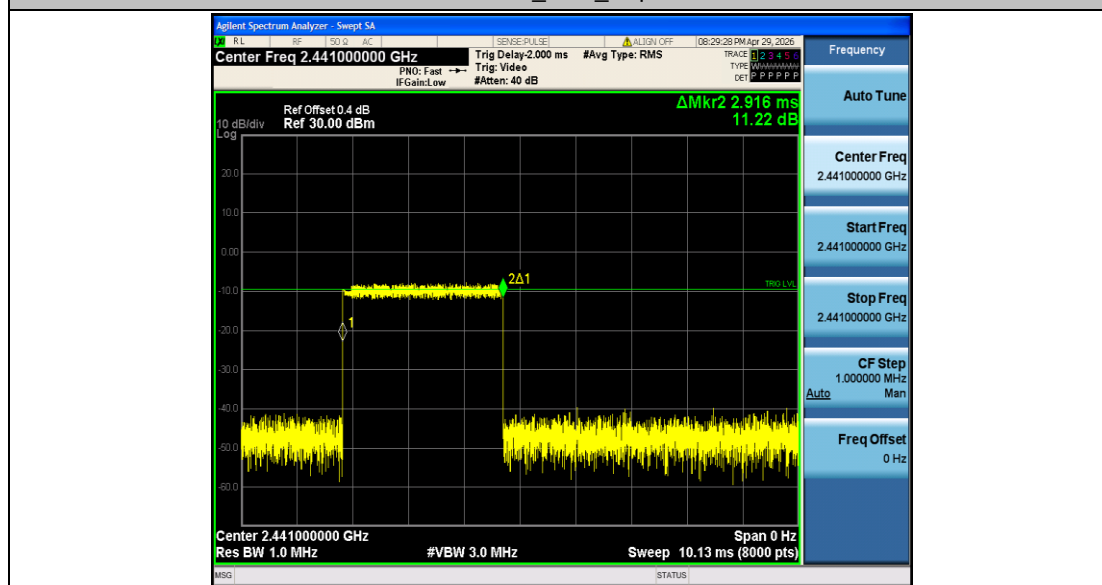
2DH1_Ant1_Hop

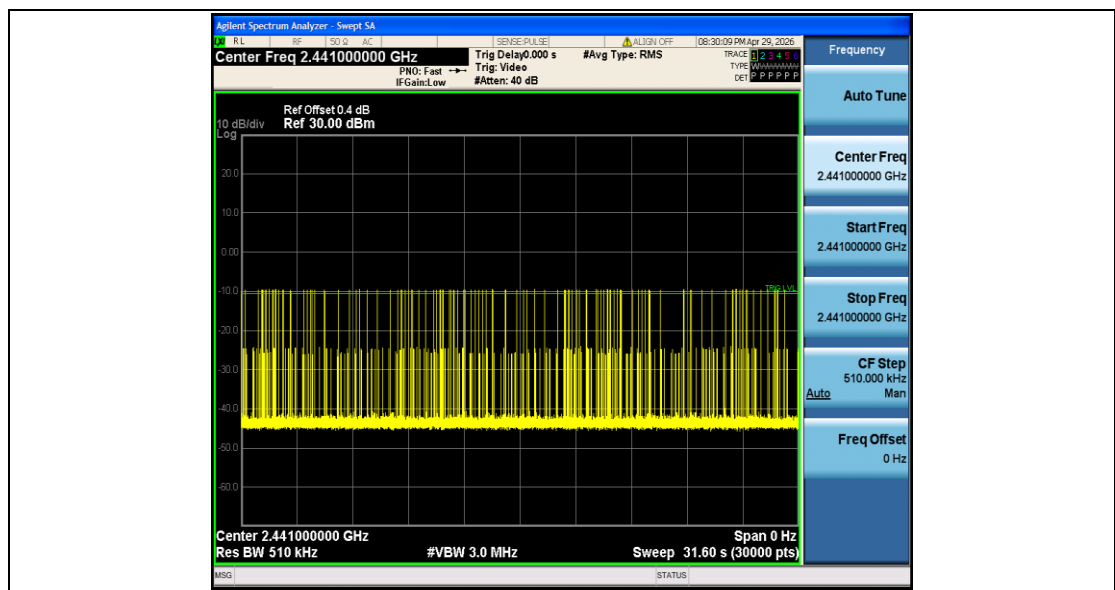


2DH3_Ant1_Hop



2DH5_Ant1_Hop



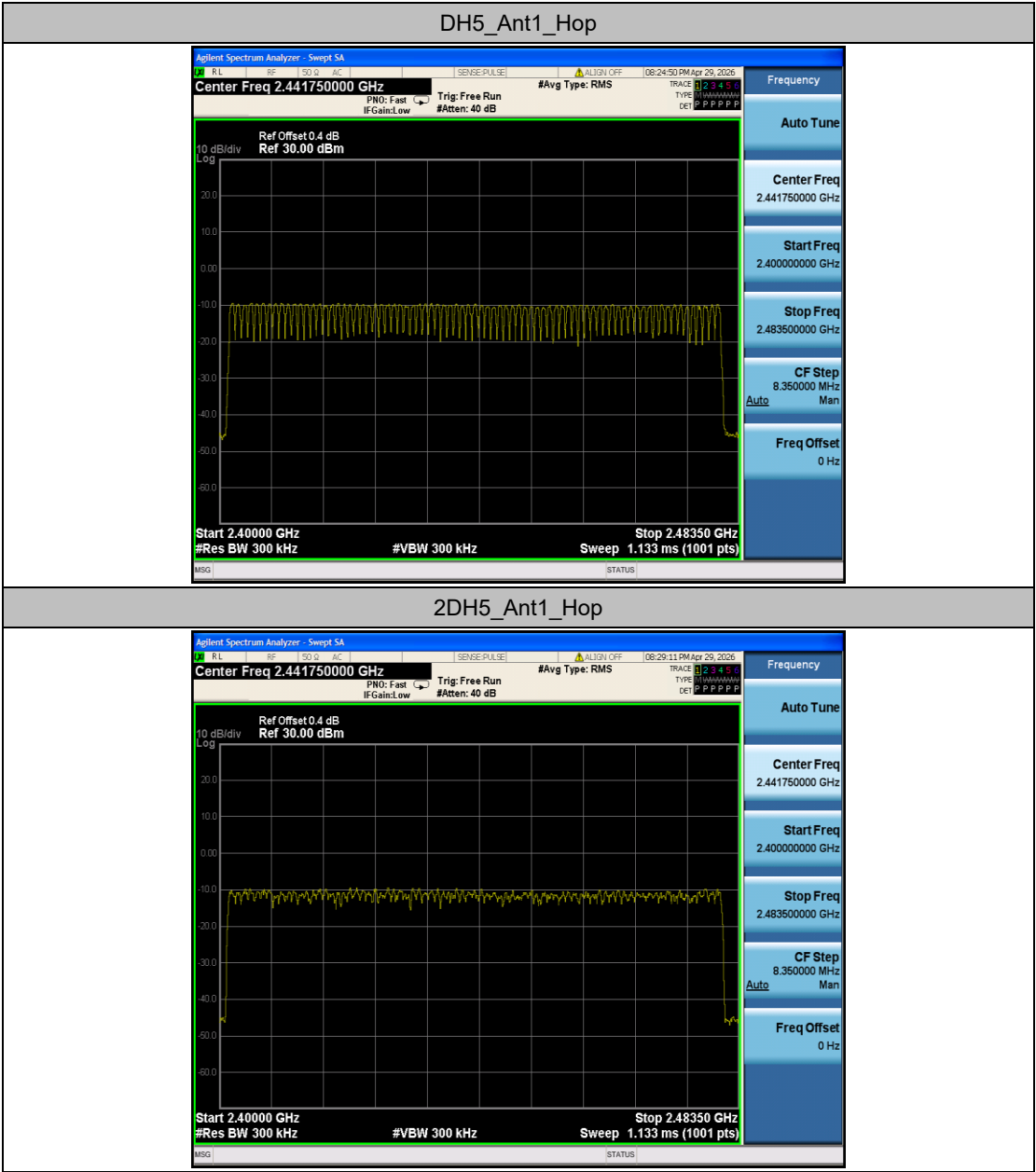


Appendix F: Number of hopping channels

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

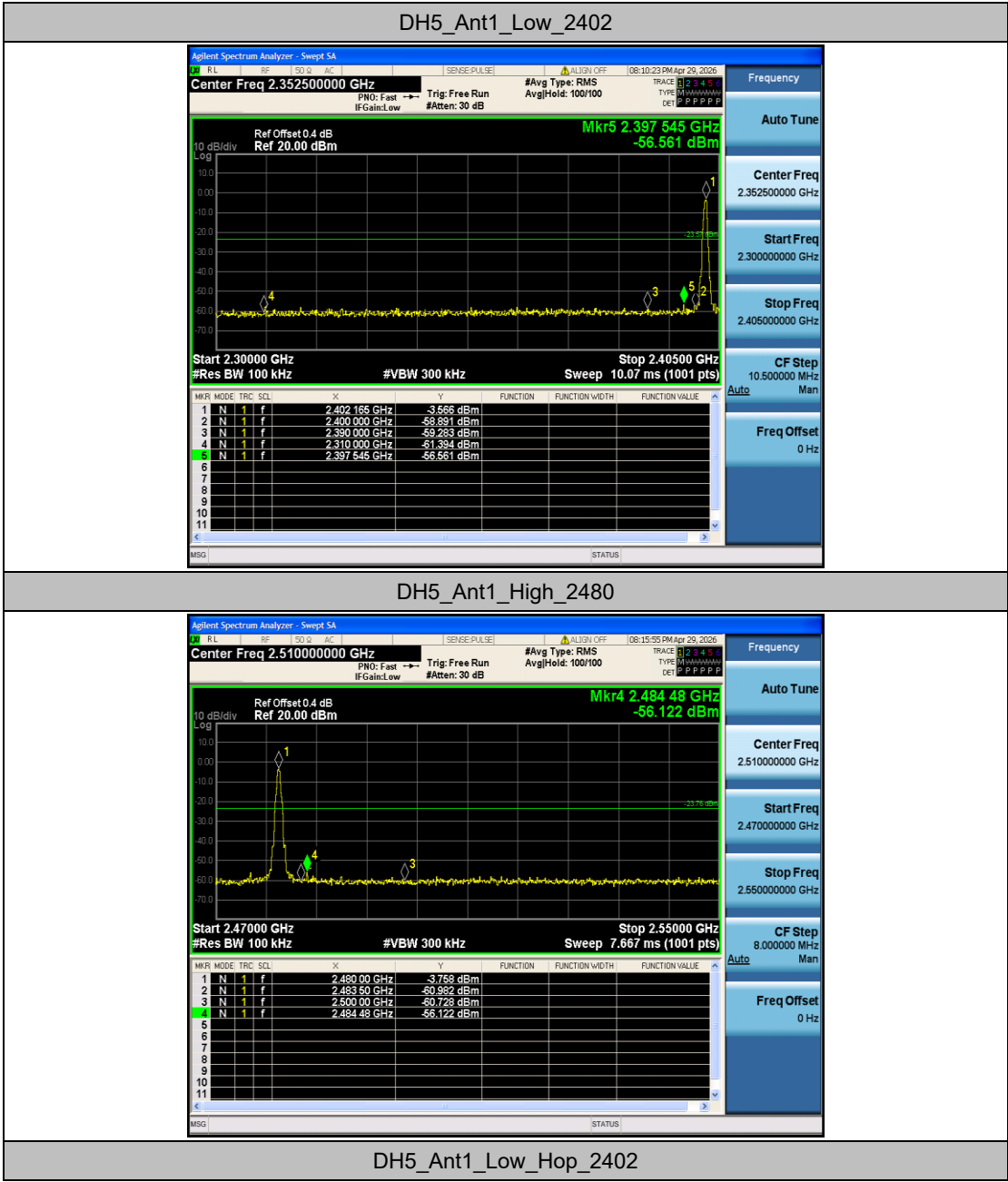


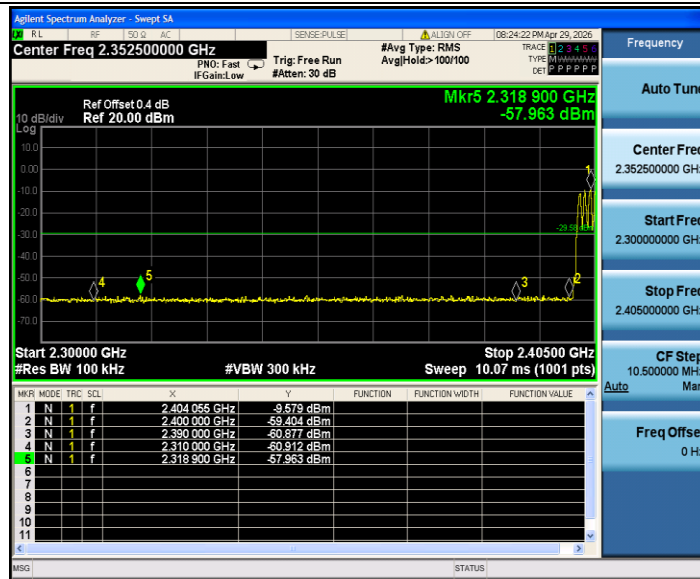
Appendix G: Band edge measurements

Test Result

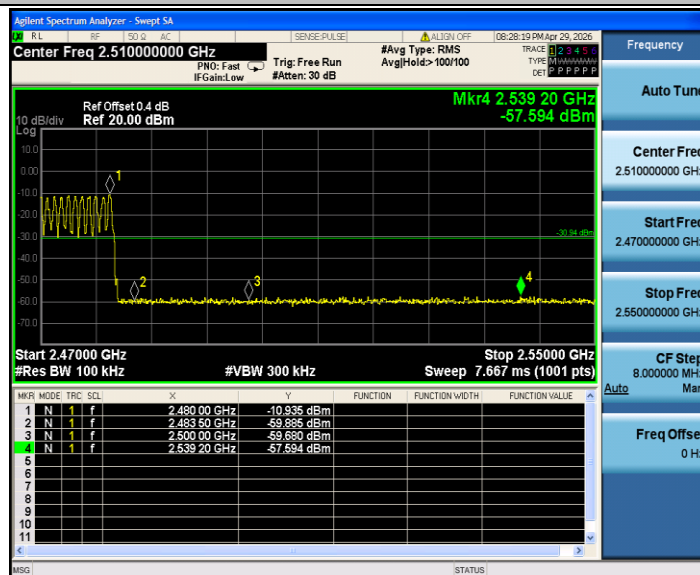
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.57	-56.56	≤-23.57	PASS
		High	2480	-3.76	-56.12	≤-23.76	PASS
		Low	Hop_2402	-9.58	-57.96	≤-29.58	PASS
		High	Hop_2480	-10.94	-57.59	≤-30.94	PASS
2DH5	Ant1	Low	2402	-9.58	-58.1	≤-29.58	PASS
		High	2480	-12.24	-57.65	≤-32.24	PASS
		Low	Hop_2402	-10.51	-57.24	≤-30.51	PASS
		High	Hop_2480	-10.88	-57.68	≤-30.88	PASS

Test Graphs

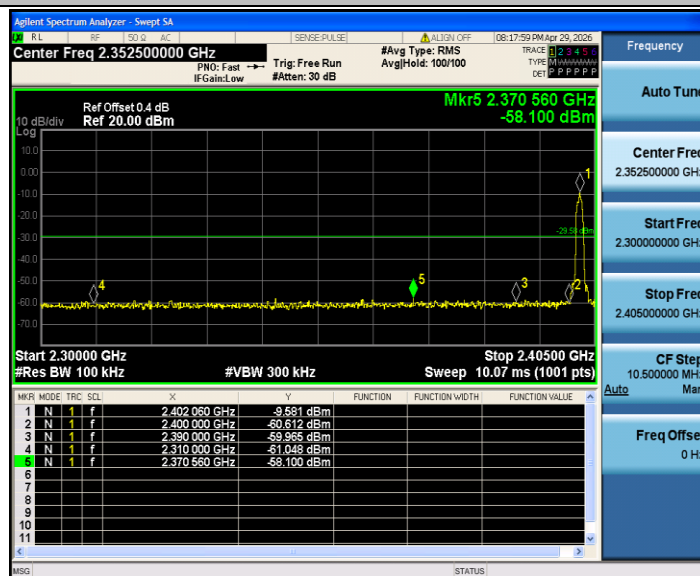




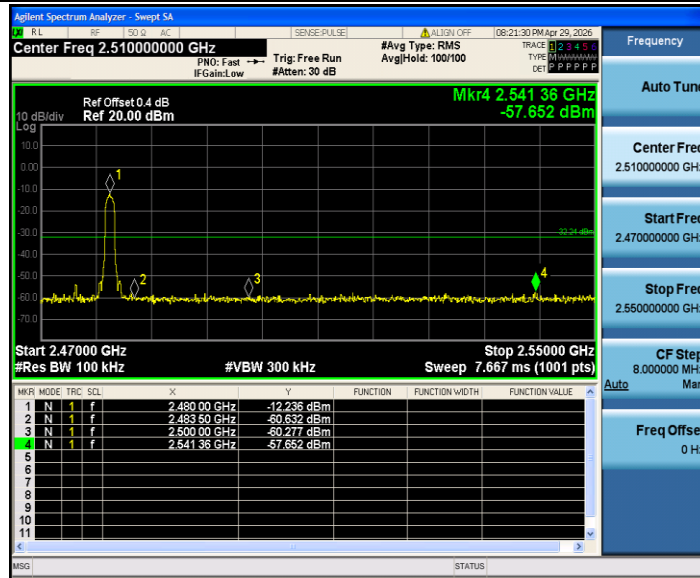
DH5_Ant1_High_Hop_2480



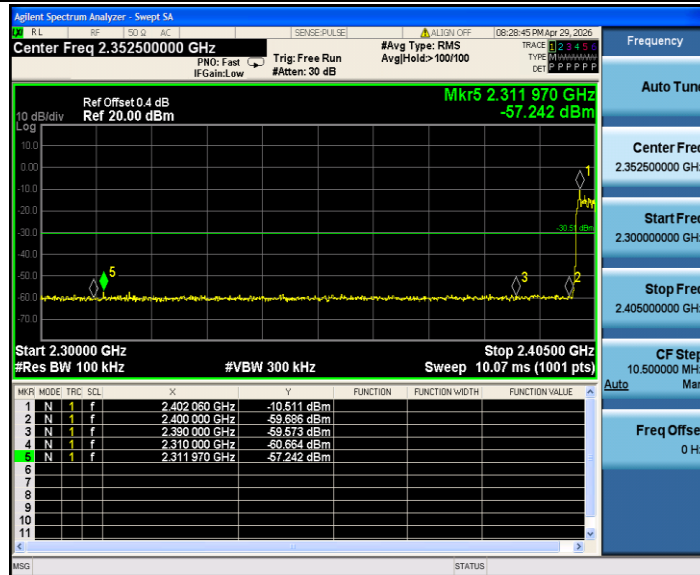
2DH5_Ant1_Low_2402



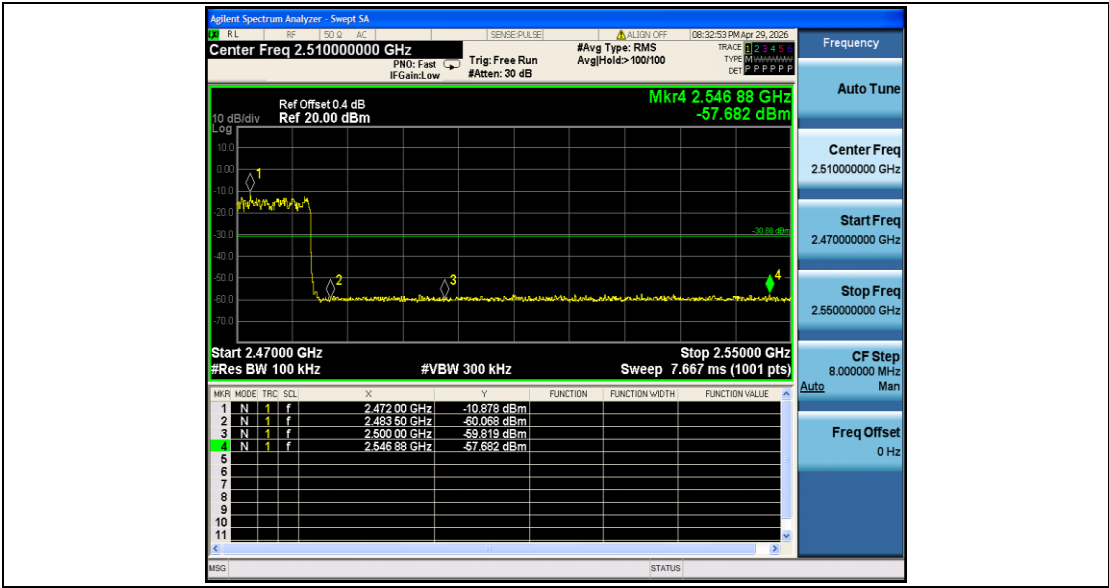
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

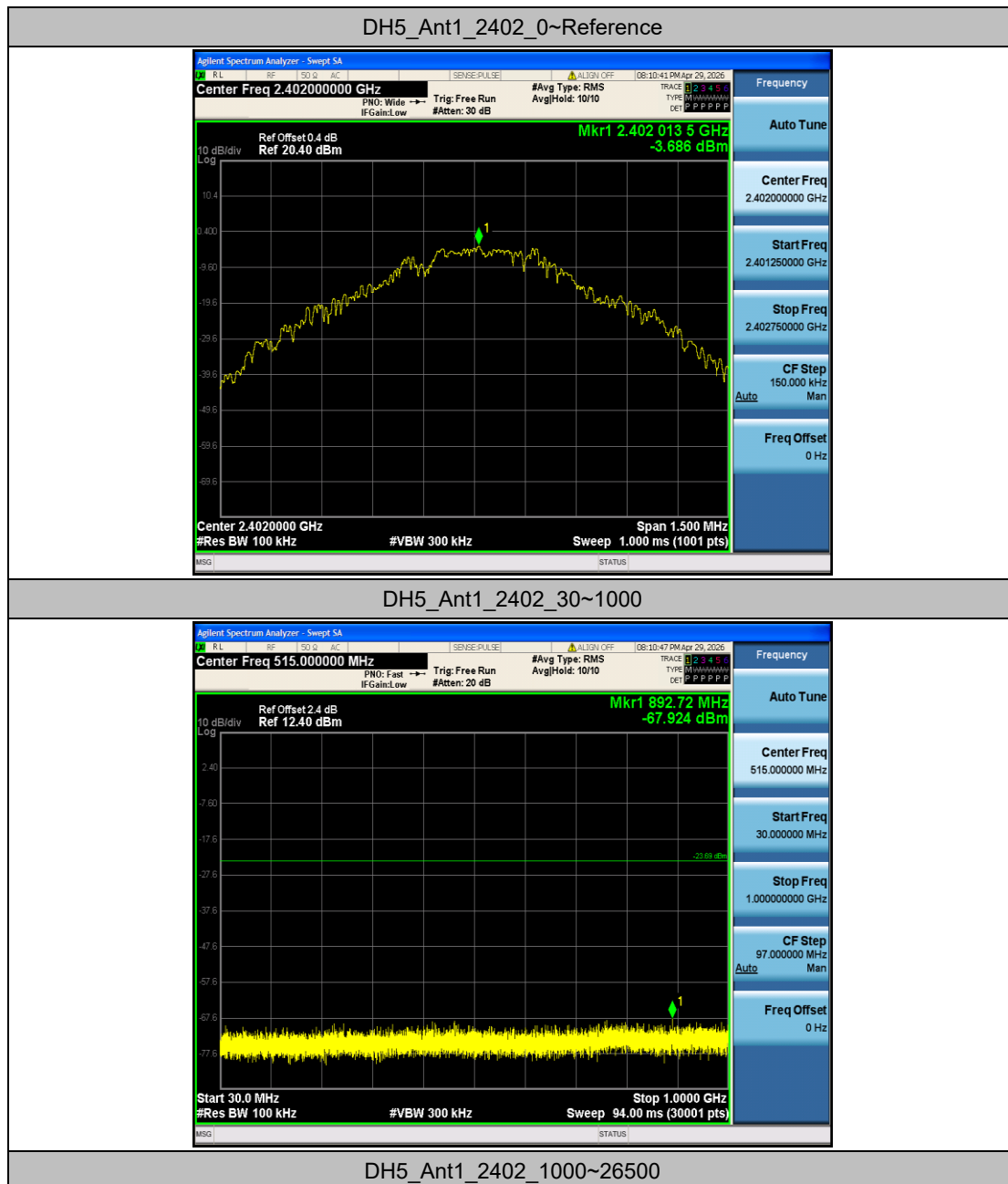


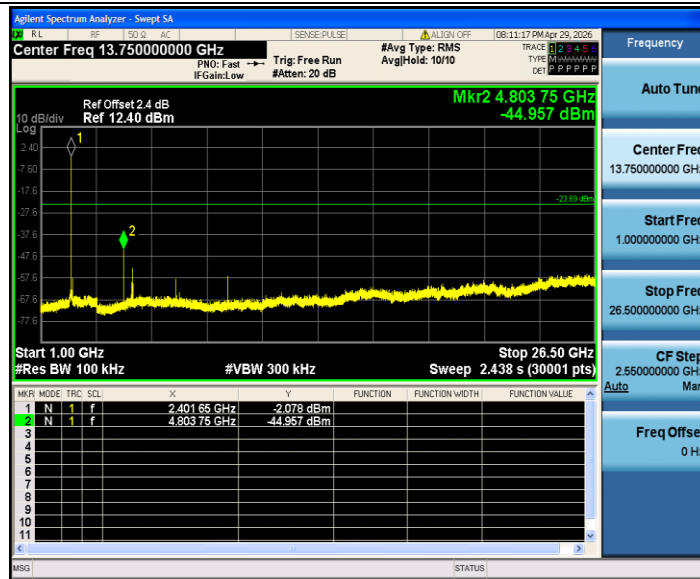
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.69	-3.69	---	PASS
			30~1000	-3.69	-67.92	≤-23.69	PASS
			1000~26500	-3.69	-44.96	≤-23.69	PASS
		2441	Reference	-4.12	-4.12	---	PASS
			30~1000	-4.12	-68.23	≤-24.12	PASS
			1000~26500	-4.12	-48.08	≤-24.12	PASS
		2480	Reference	-4.01	-4.01	---	PASS
			30~1000	-4.01	-68.28	≤-24.01	PASS
			1000~26500	-4.01	-48.54	≤-24.01	PASS
2DH5	Ant1	2402	Reference	-11.05	-11.05	---	PASS
			30~1000	-11.05	-67.84	≤-31.05	PASS
			1000~26500	-11.05	-55.33	≤-31.05	PASS
		2441	Reference	-11.82	-11.82	---	PASS
			30~1000	-11.82	-67.97	≤-31.82	PASS
			1000~26500	-11.82	-55.31	≤-31.82	PASS
		2480	Reference	-9.87	-9.87	---	PASS
			30~1000	-9.87	-67.99	≤-29.87	PASS
			1000~26500	-9.87	-55.68	≤-29.87	PASS

Test Graphs

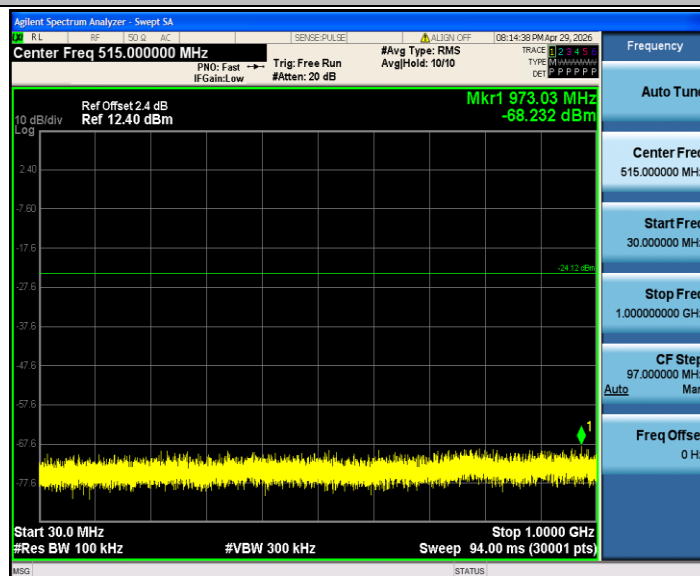




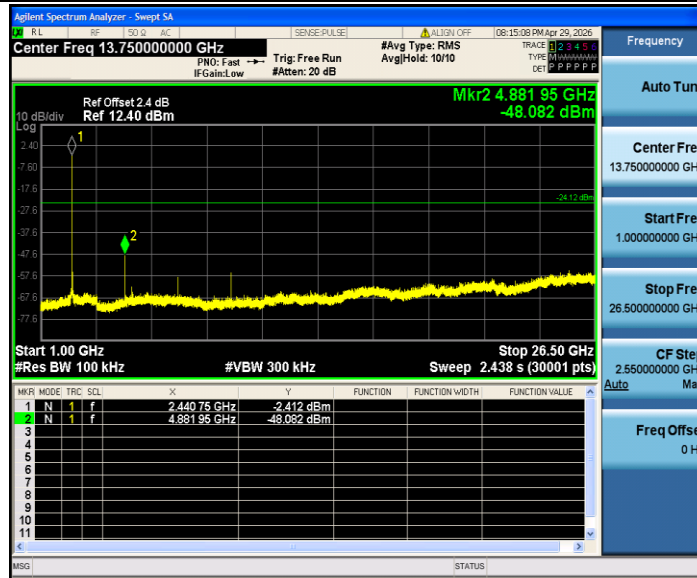
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



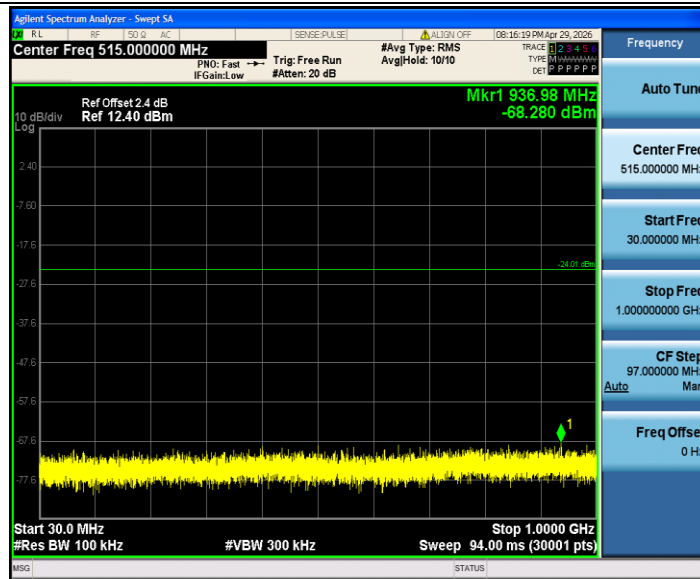
DH5_Ant1_2441_1000~26500



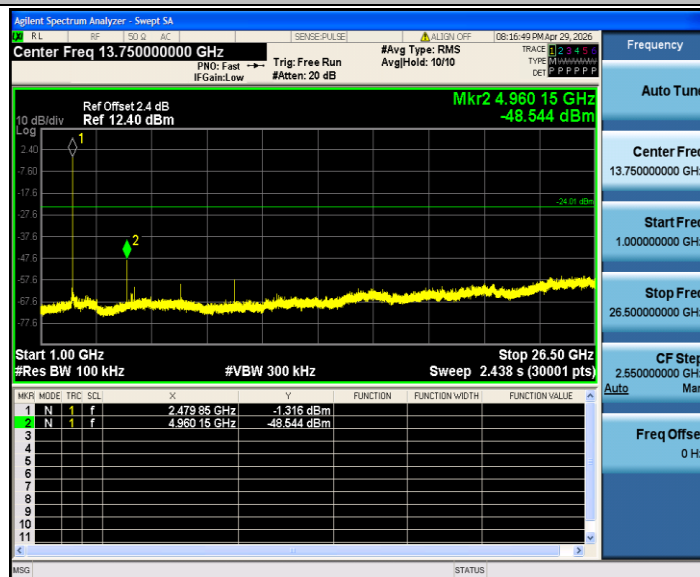
DH5_Ant1_2480_0~Reference



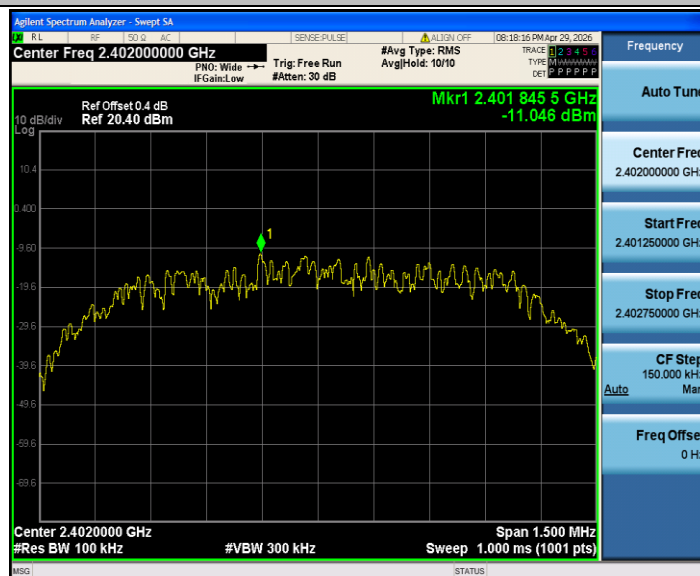
DH5_Ant1_2480_30~1000



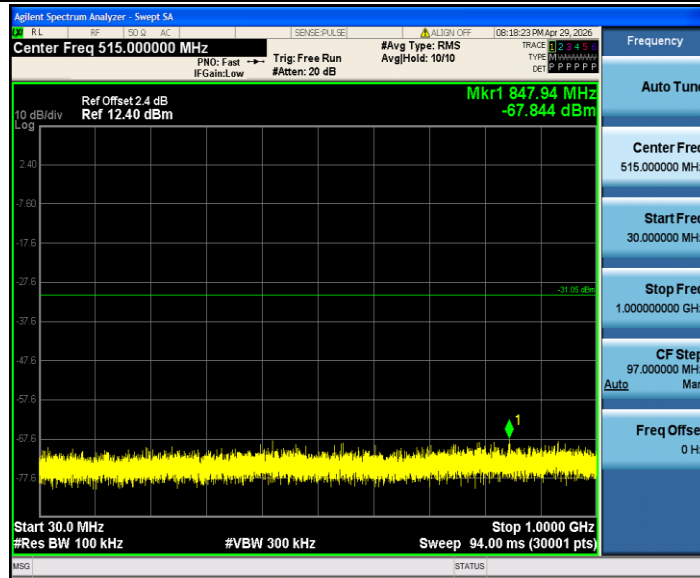
DH5_Ant1_2480_1000~26500



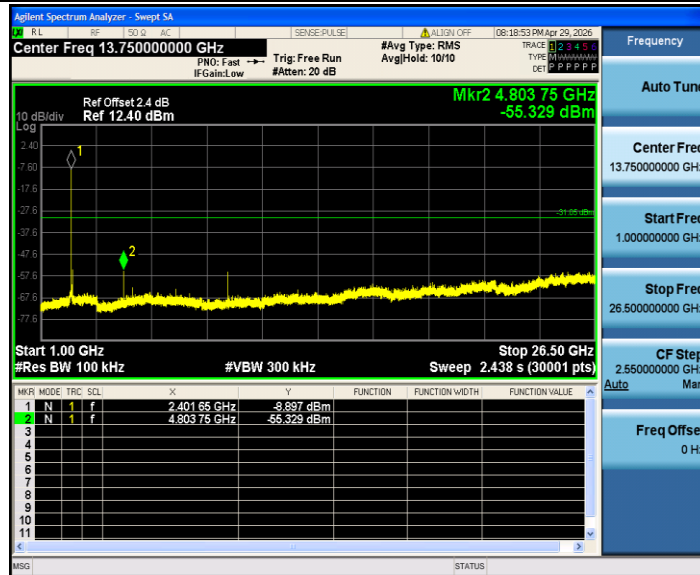
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



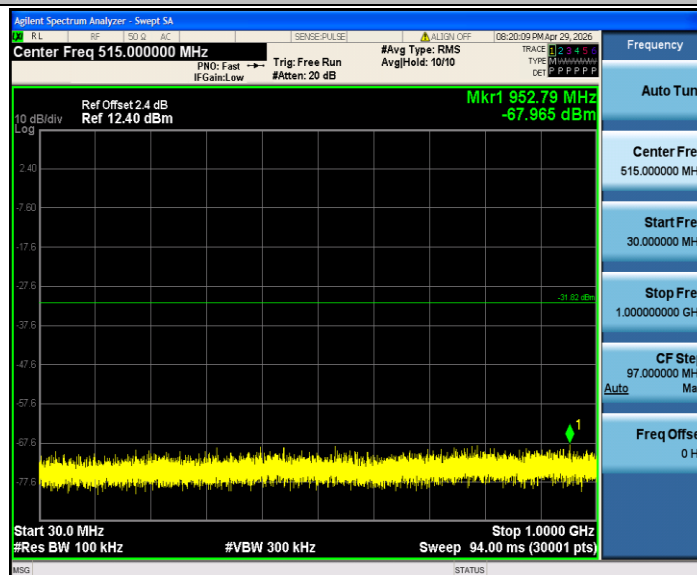
2DH5_Ant1_2402_1000~26500



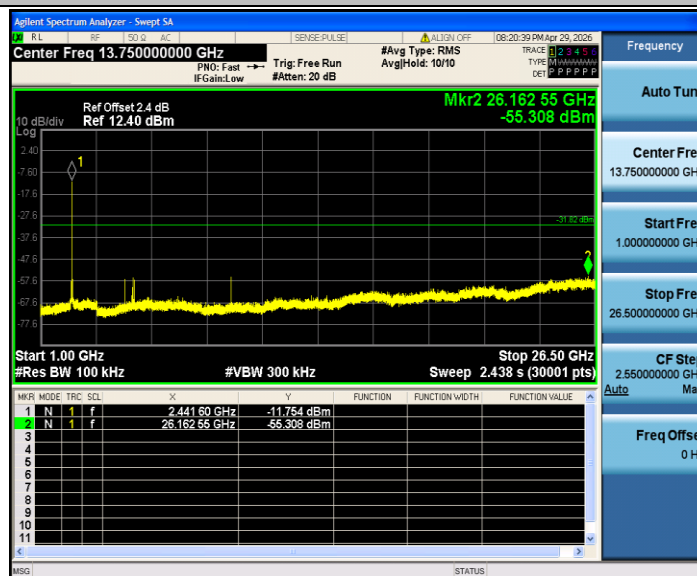
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



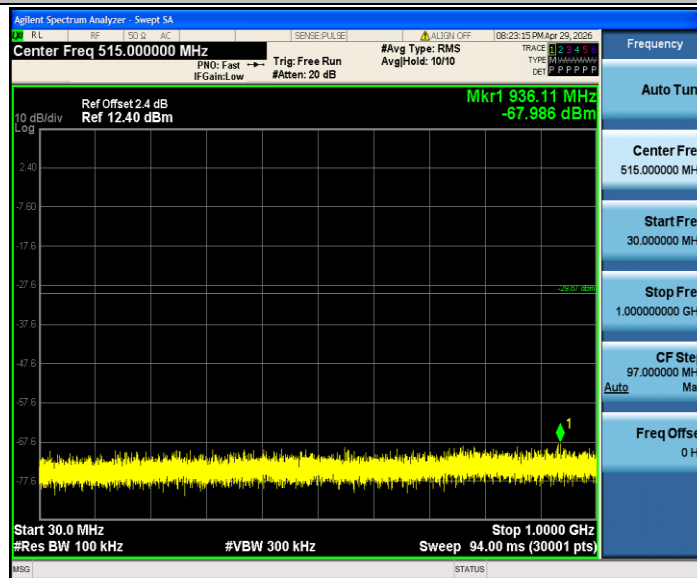
2DH5_Ant1_2441_1000~26500



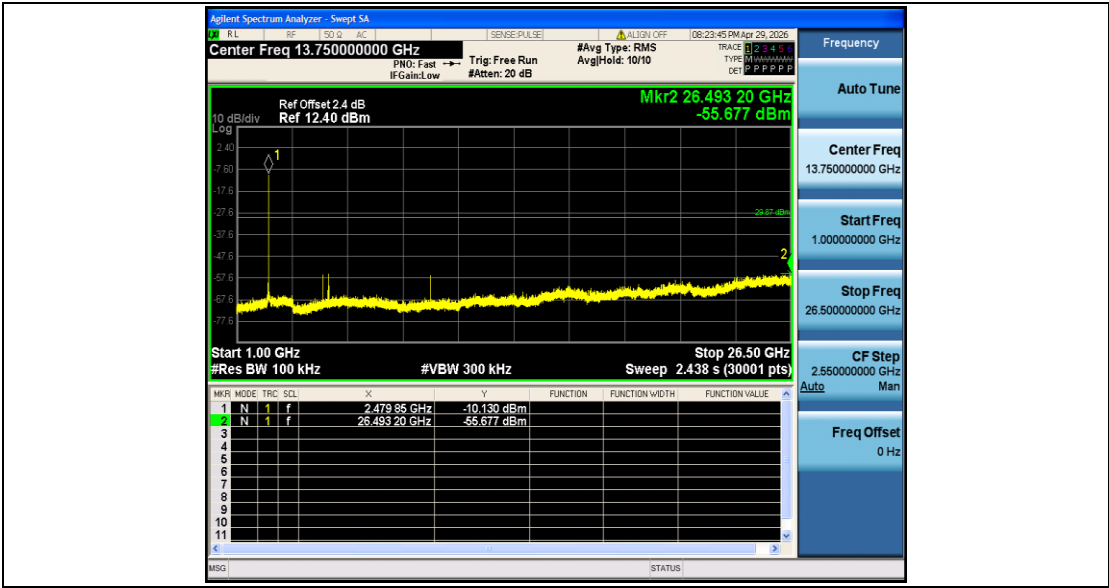
2DH5_Ant1_2480_0~Reference



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	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.76	77.66	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---