

FCC Appendix RF Test Data for BT

FCC ID : 2AUVB-113

Company : Shenzhen Yuzhuo Technology Co., LTD

EUT : Wireless speakers

Model Number : 113

Report No. : CTA26090700101

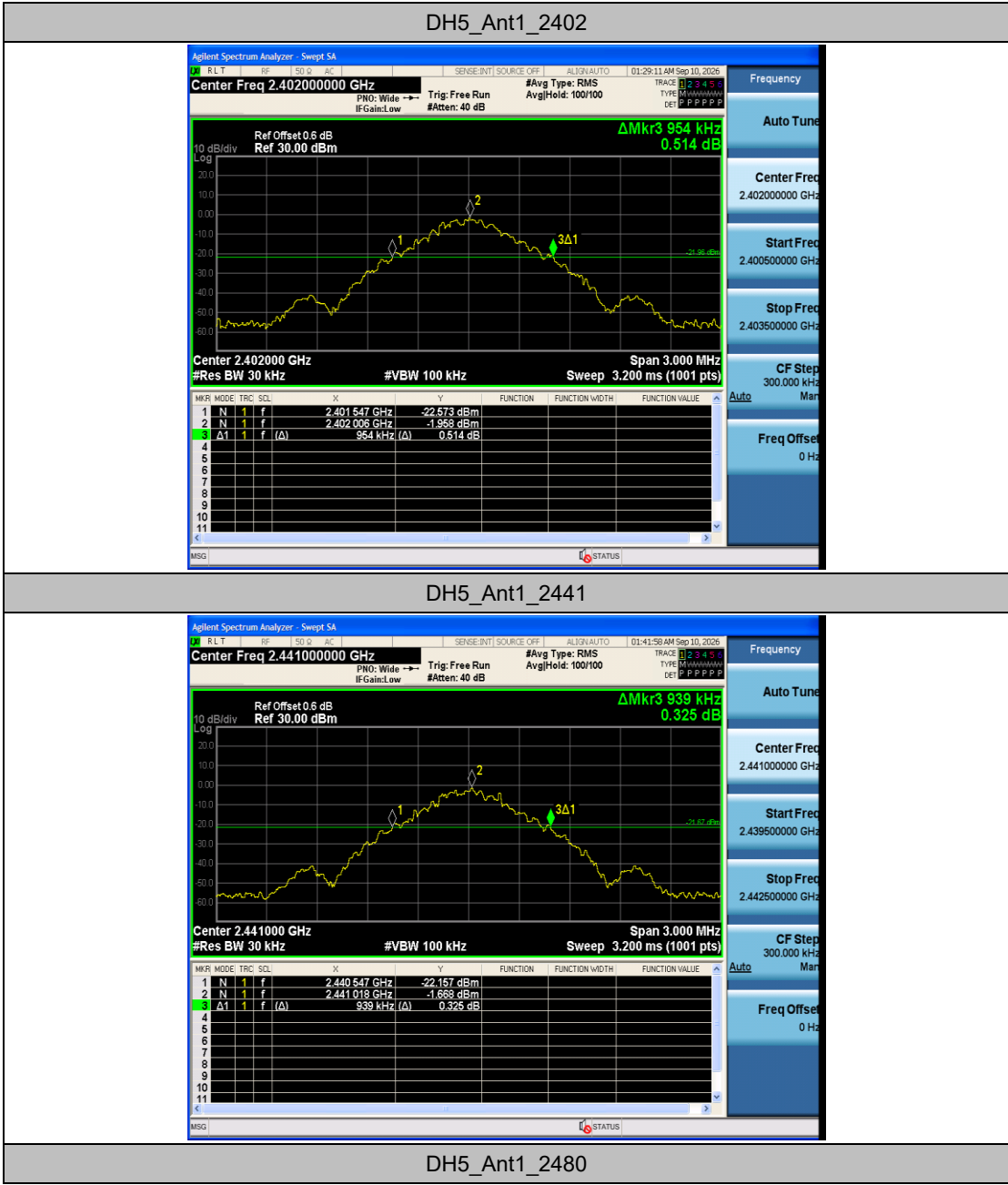
Reviewed By : Eric Wang

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	0.939	2440.547	2441.486	---	---
		2480	0.945	2479.547	2480.492	---	---
2DH5	Ant1	2402	1.338	2401.340	2402.678	---	---
		2441	1.323	2440.352	2441.675	---	---
		2480	1.287	2479.379	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

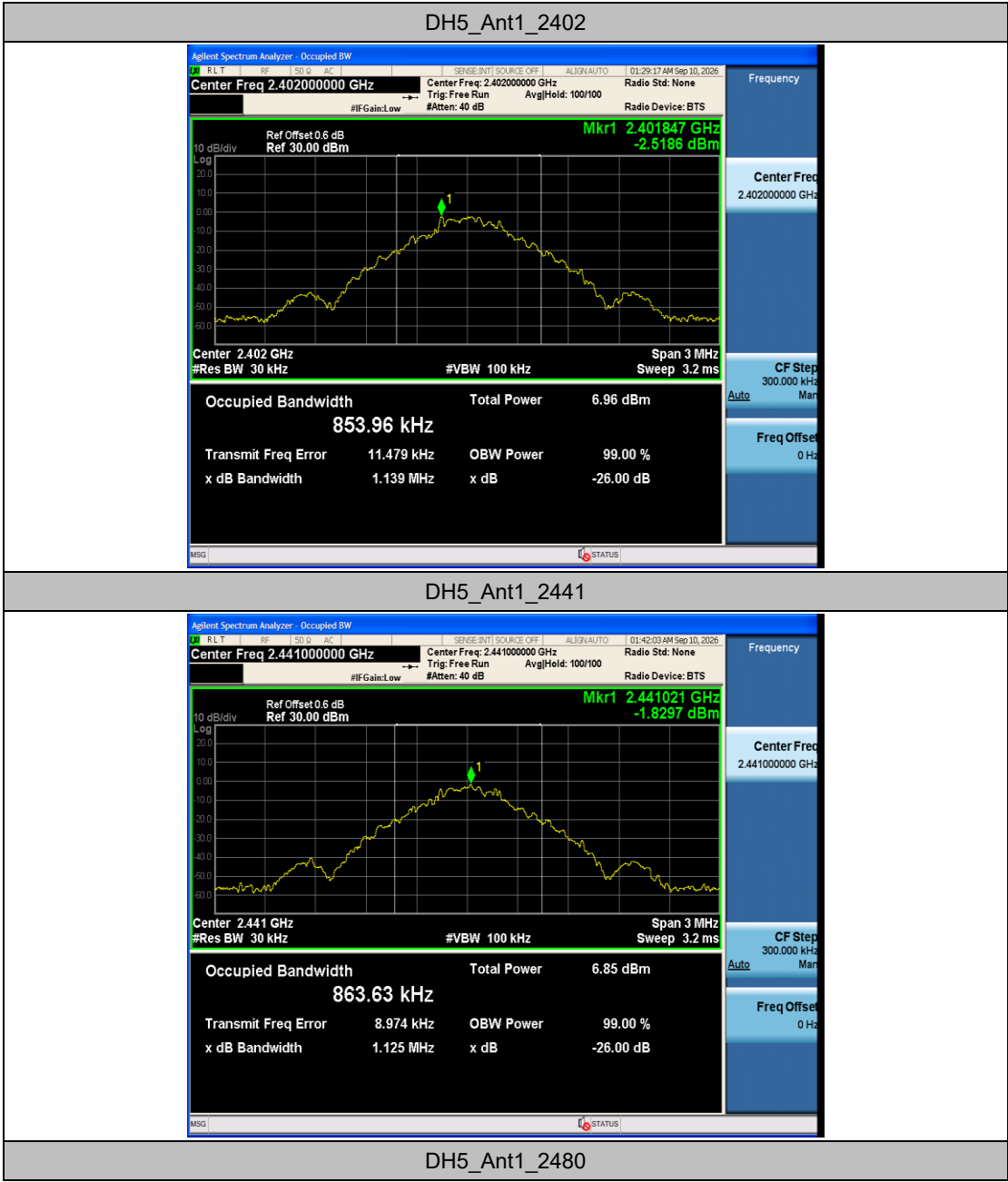


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85396	2401.5845	2402.4385	---	---
		2441	0.86363	2440.5772	2441.4408	---	---
		2480	0.85675	2479.5803	2480.4371	---	---
2DH5	Ant1	2402	1.1886	2401.4166	2402.6052	---	---
		2441	1.1865	2440.4205	2441.6070	---	---
		2480	1.1964	2479.4130	2480.6094	---	---

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	0.34	≤20.97	PASS
		2441	0.17	≤20.97	PASS
		2480	-0.08	≤20.97	PASS
2DH5	Ant1	2402	3.01	≤20.97	PASS
		2441	2.86	≤20.97	PASS
		2480	2.57	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	≥ 0.954	PASS
2DH5	Ant1	Hop	0.968	≥ 0.892	PASS

Test Graphs

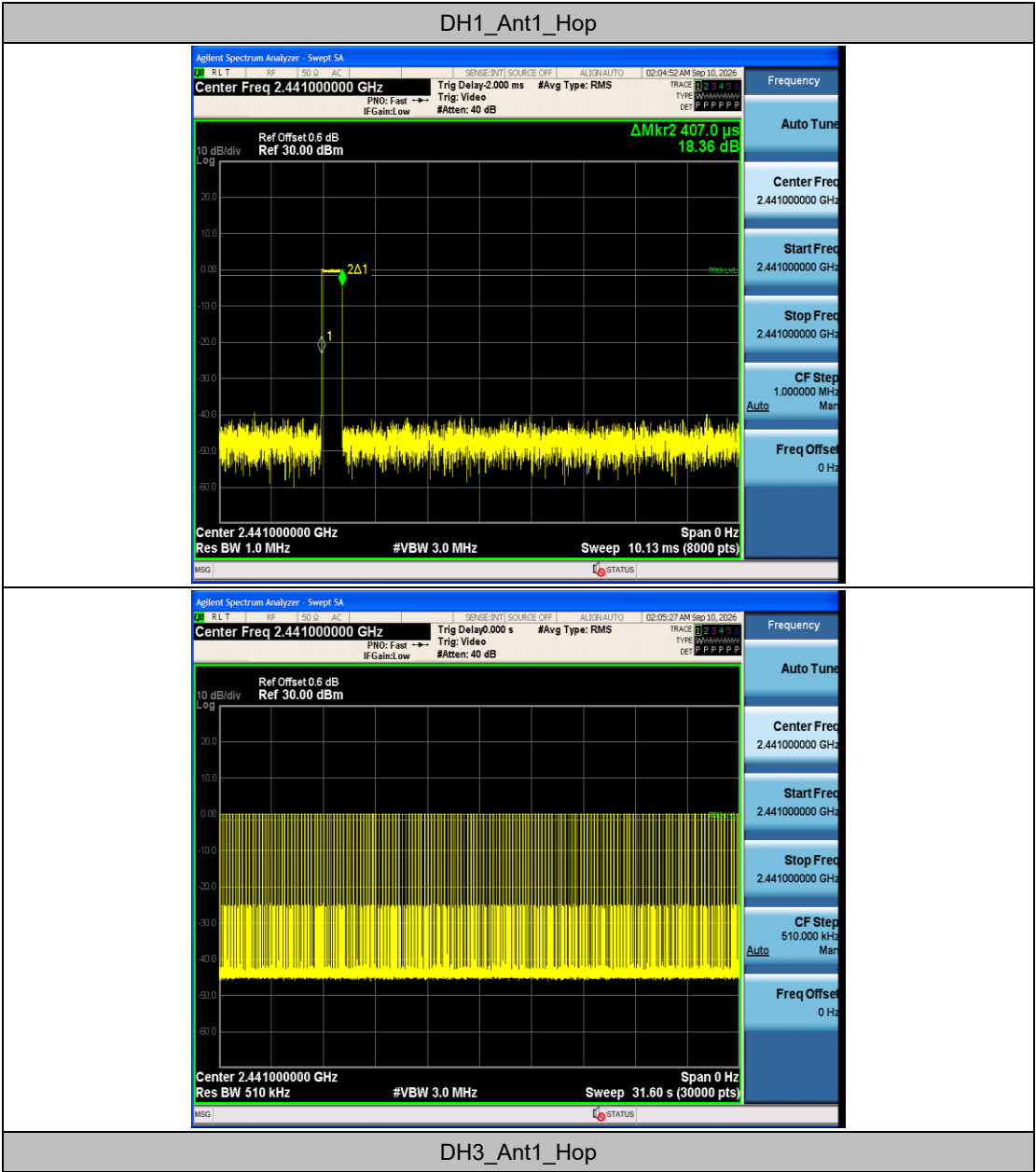


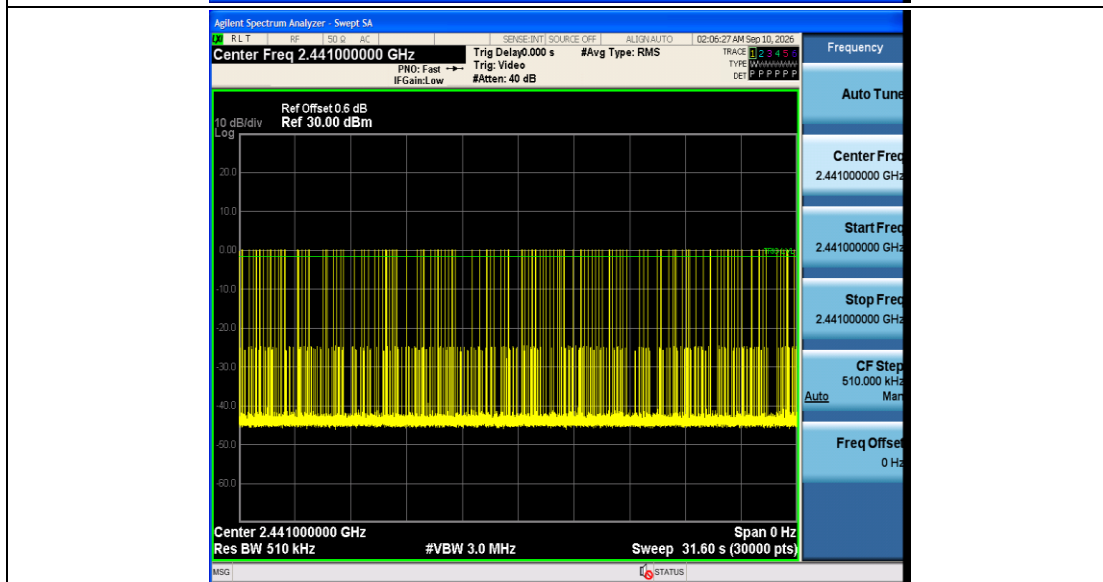
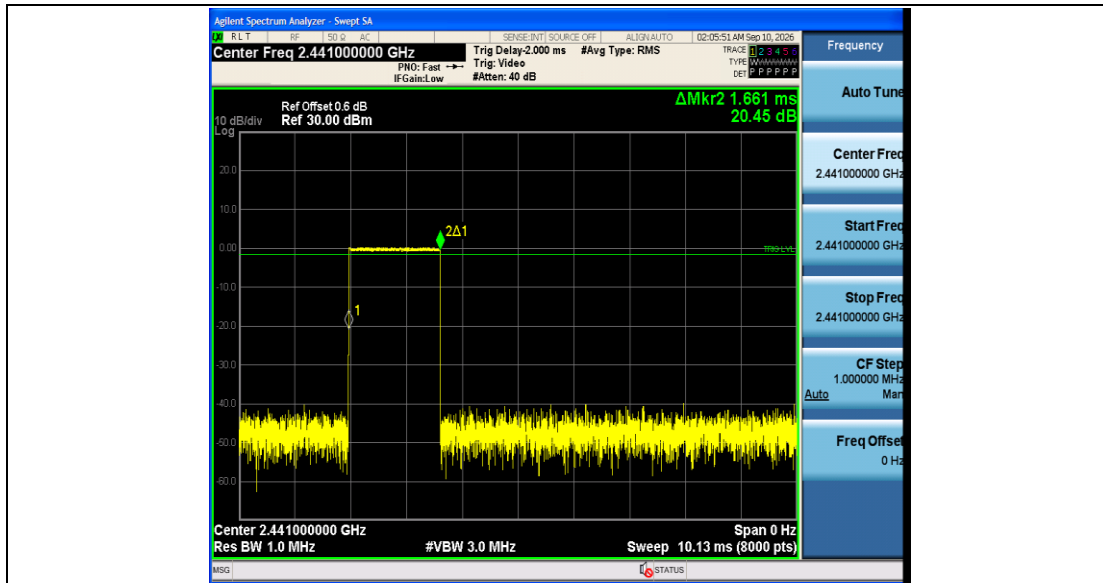
Appendix E: Time of occupancy

Test Result

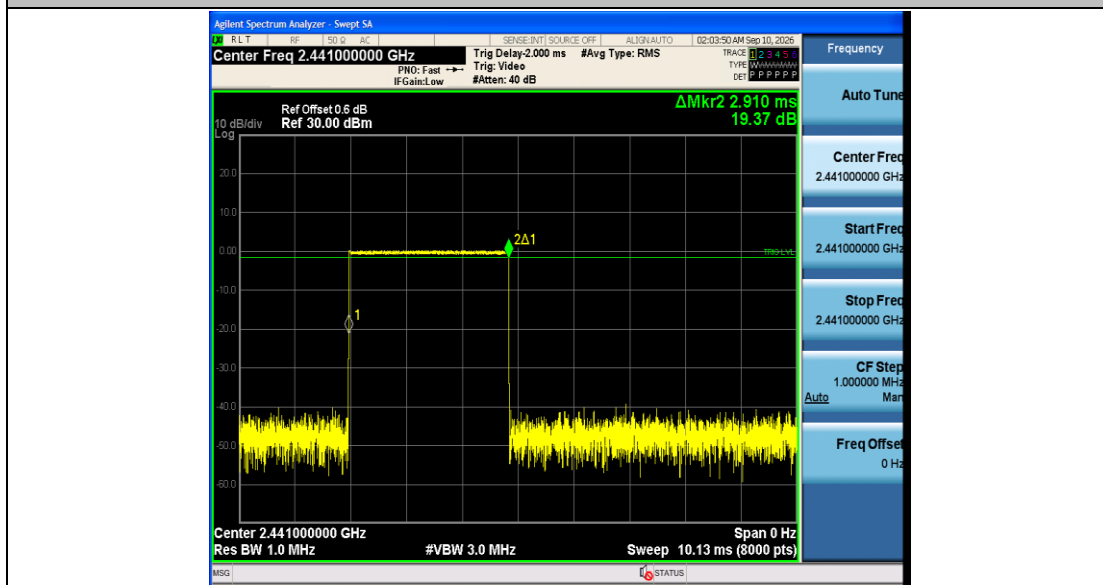
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	317	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.661	146	0.243	≤0.4	PASS
DH5	Ant1	Hop	2.910	114	0.332	≤0.4	PASS
2DH1	Ant1	Hop	0.415	310	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.667	161	0.268	≤0.4	PASS
2DH5	Ant1	Hop	2.915	116	0.338	≤0.4	PASS

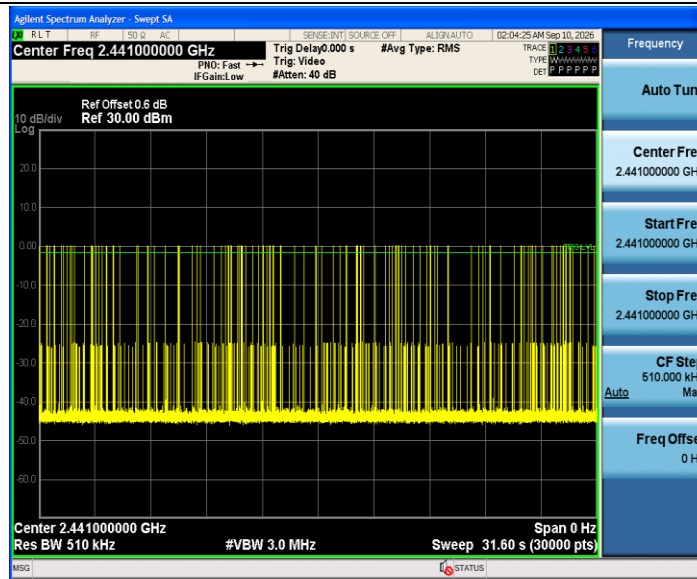
Test Graphs



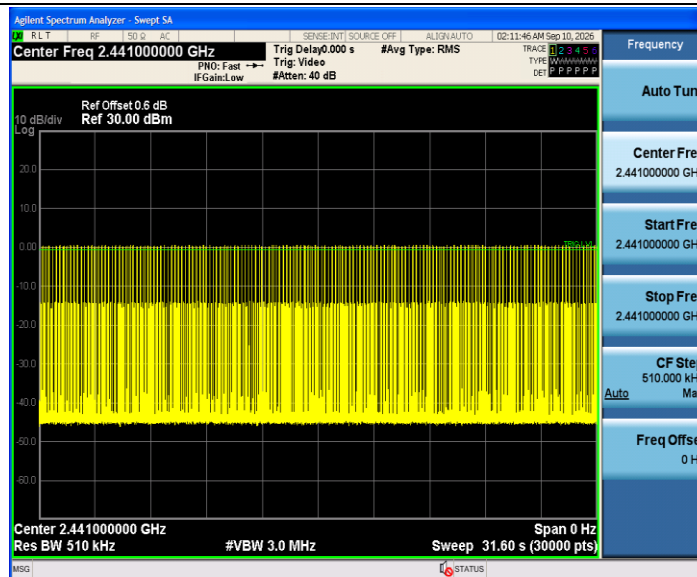
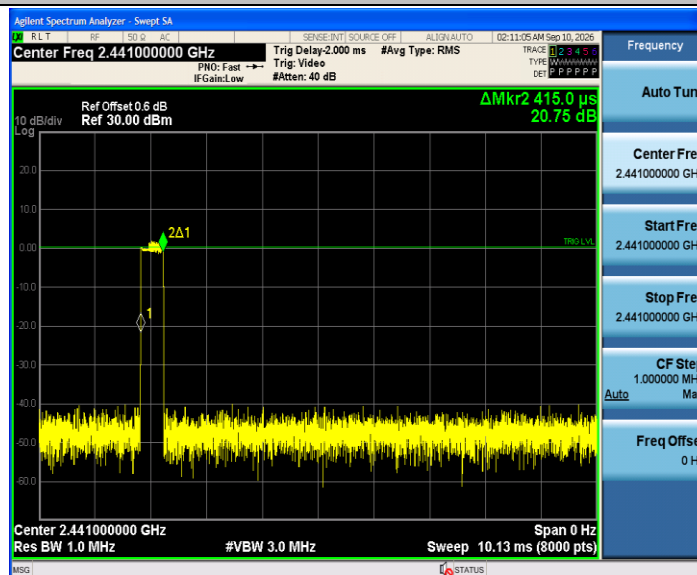


DH5_Ant1_Hop

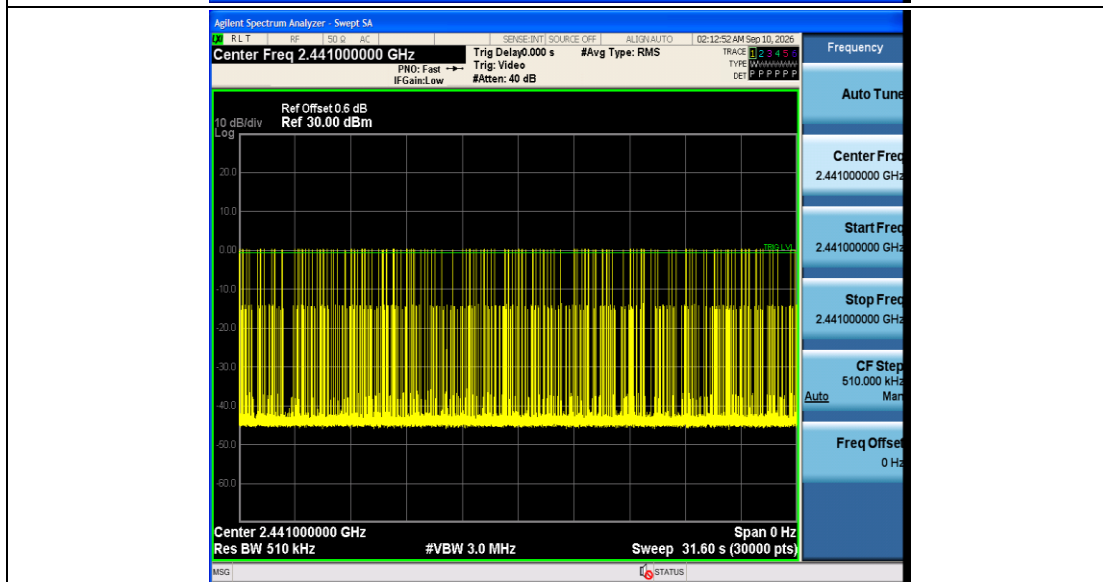
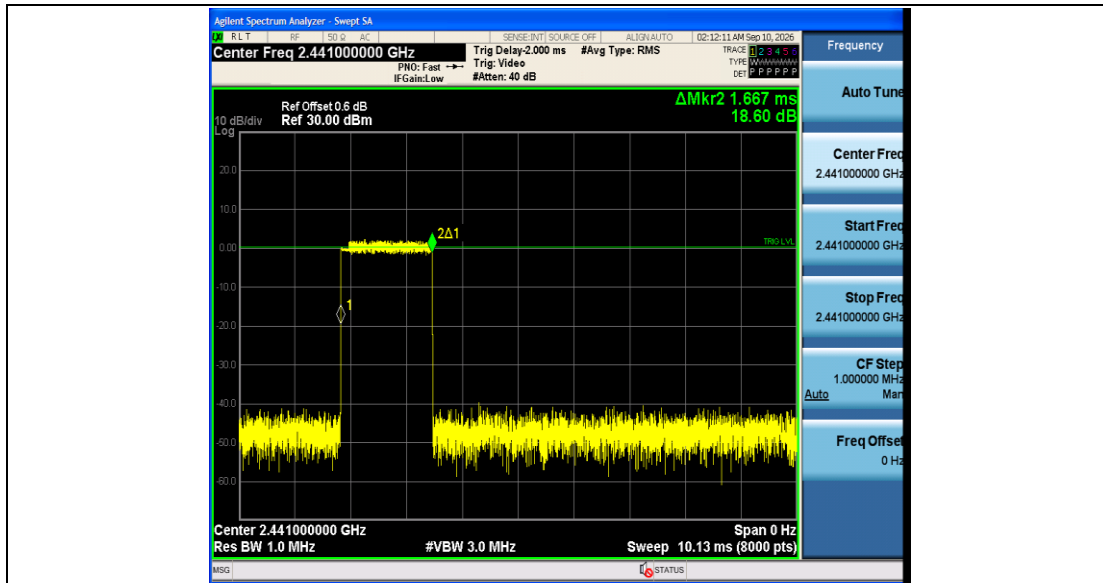




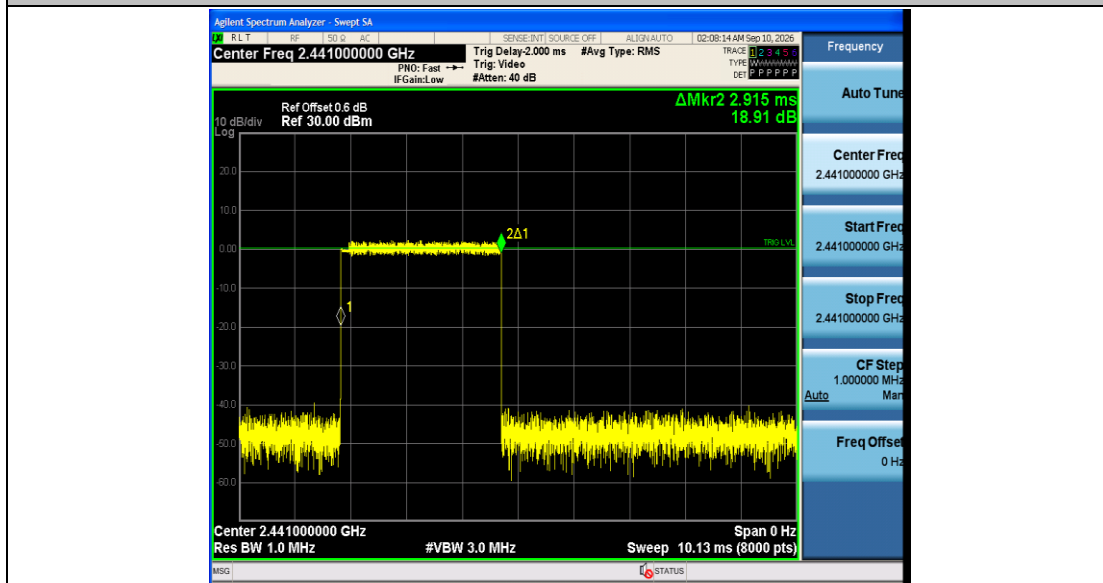
2DH1_Ant1_Hop

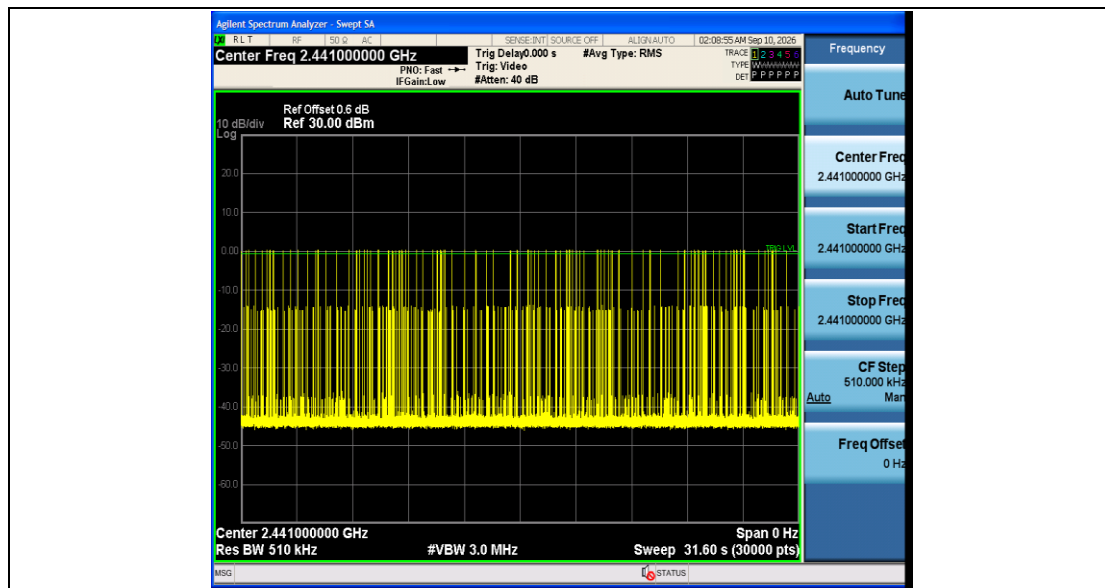


2DH3_Ant1_Hop



2DH5_Ant1_Hop



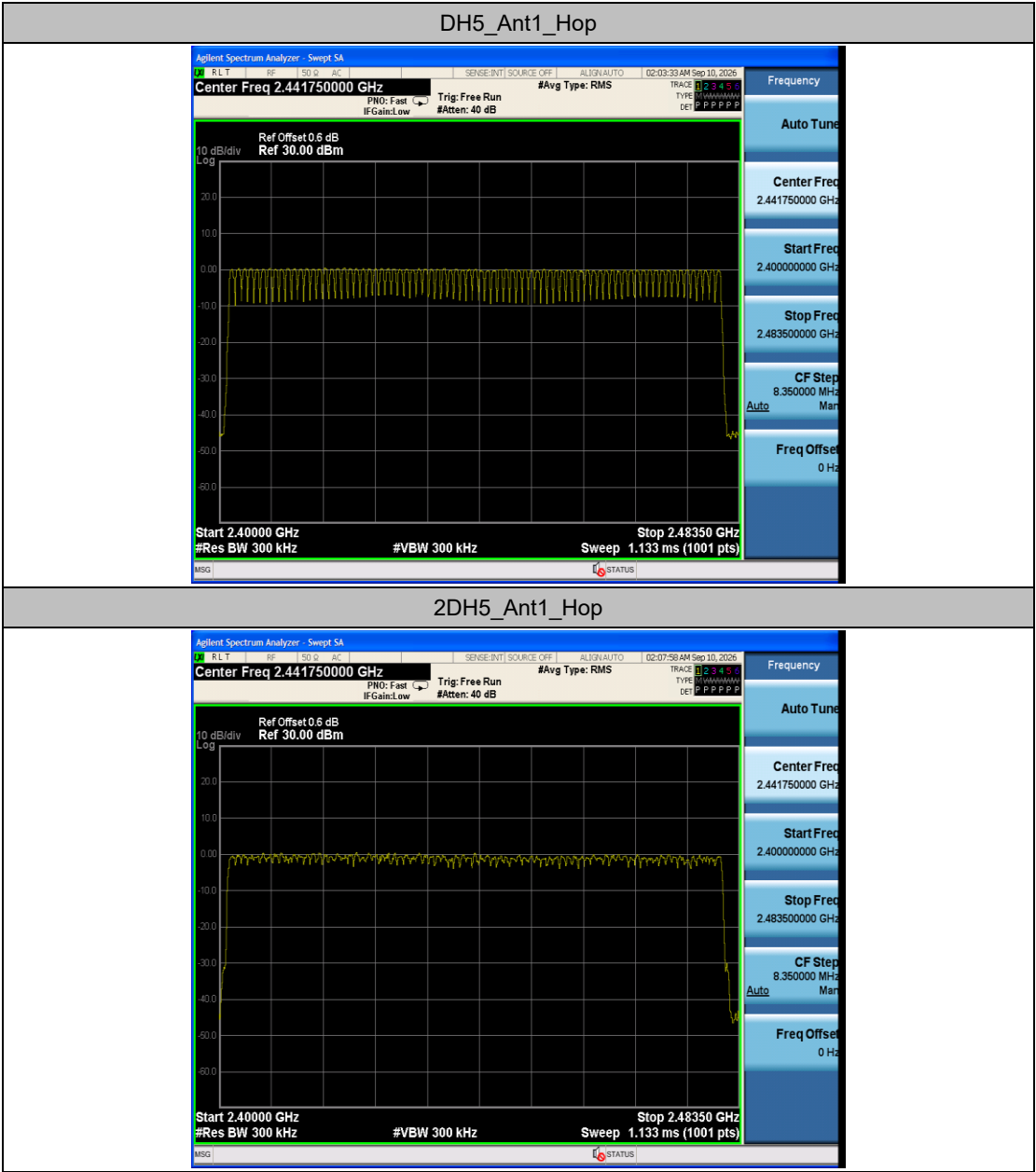


Appendix F: Number of hopping channels

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

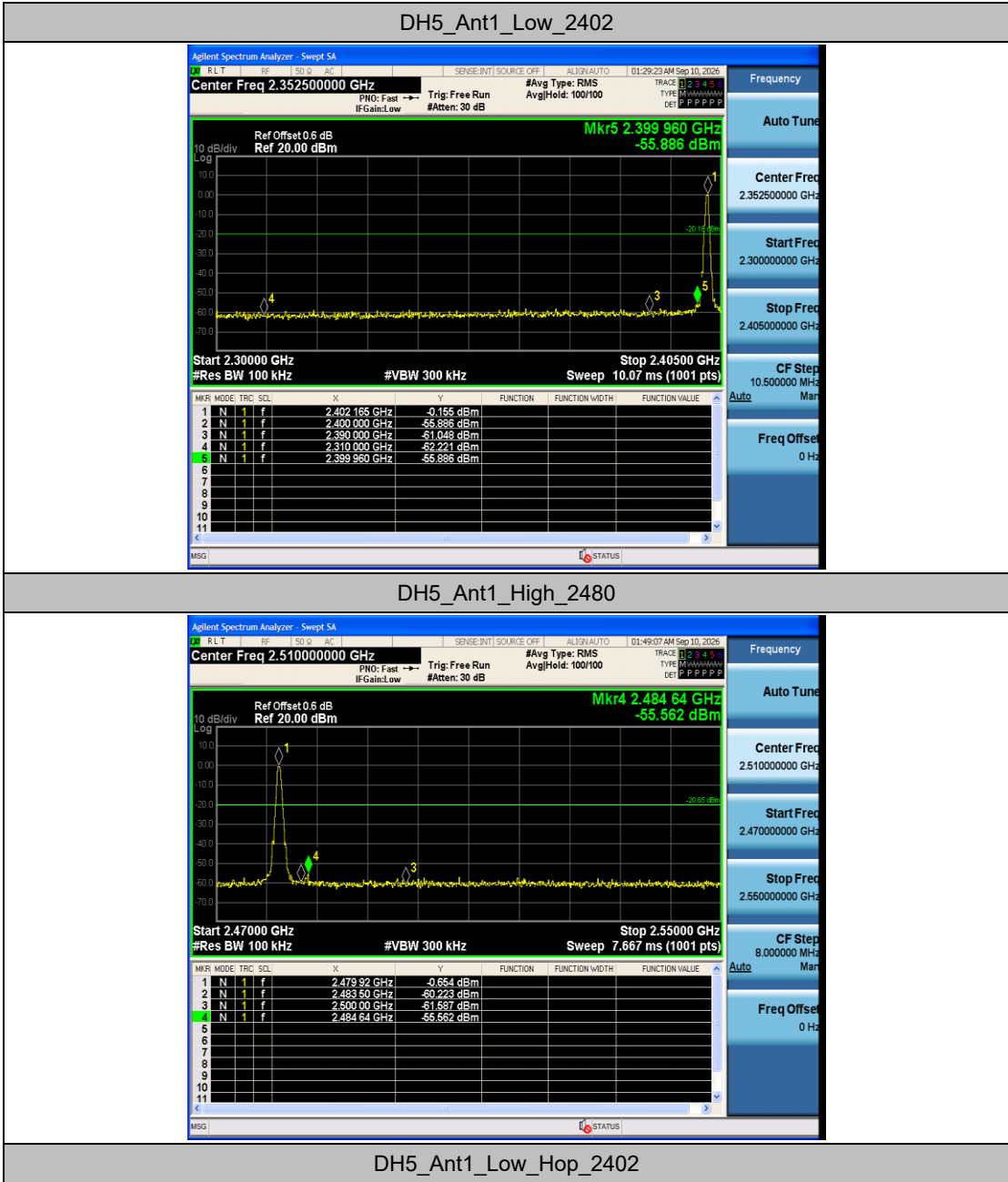


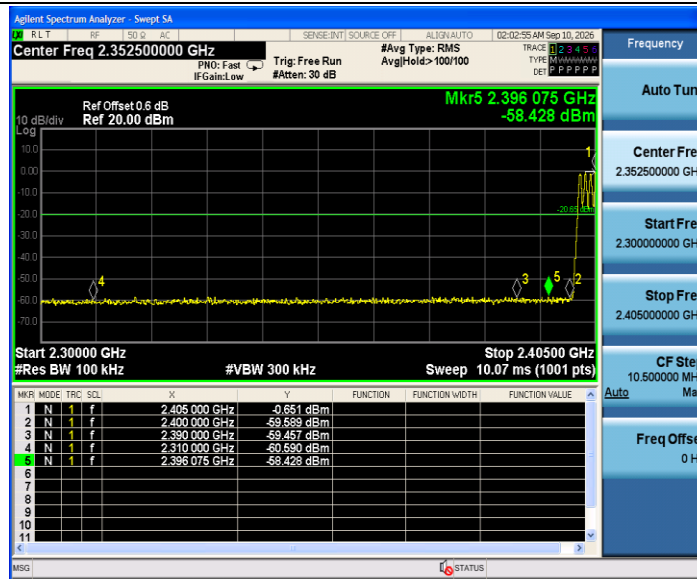
Appendix G: Band edge measurements

Test Result

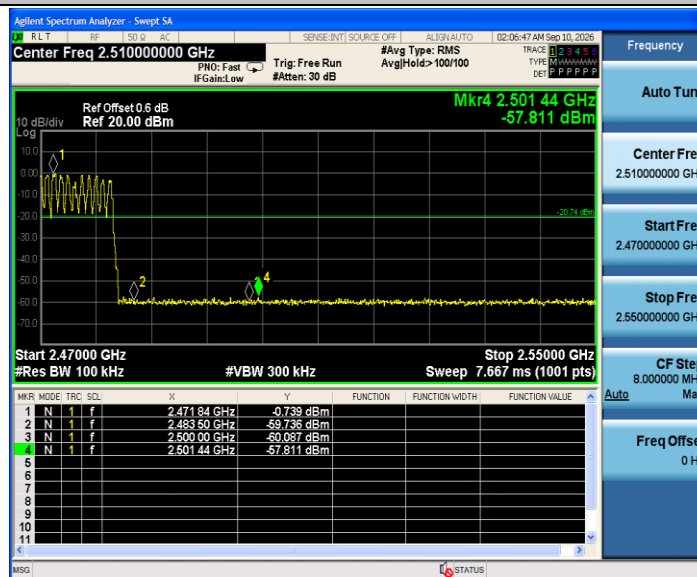
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.16	-55.89	≤-20.16	PASS
		High	2480	-0.65	-55.56	≤-20.65	PASS
		Low	Hop_2402	-0.65	-58.43	≤-20.65	PASS
		High	Hop_2480	-0.74	-57.81	≤-20.74	PASS
2DH5	Ant1	Low	2402	-0.47	-49.86	≤-20.47	PASS
		High	2480	-1.65	-57.54	≤-21.65	PASS
		Low	Hop_2402	-2.61	-50.52	≤-22.61	PASS
		High	Hop_2480	-0.14	-57.01	≤-20.14	PASS

Test Graphs

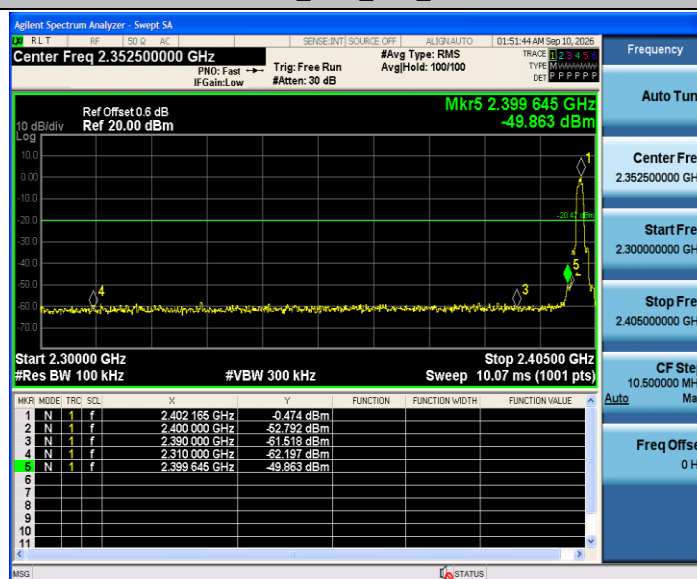




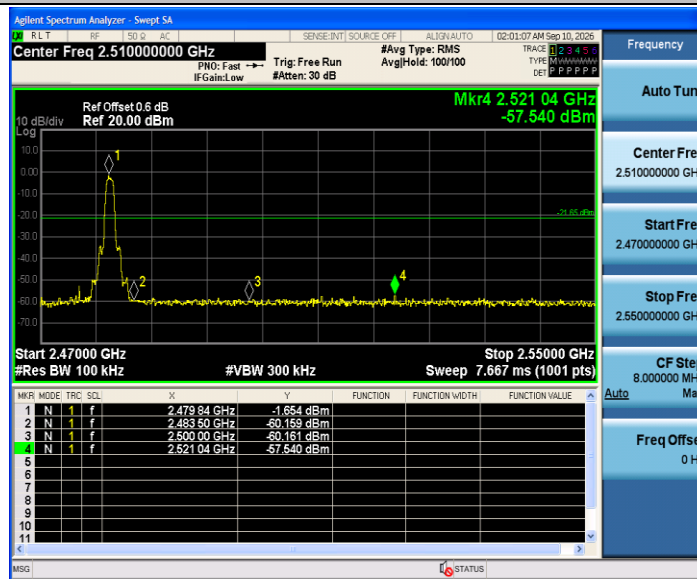
DH5_Ant1_High_Hop_2480



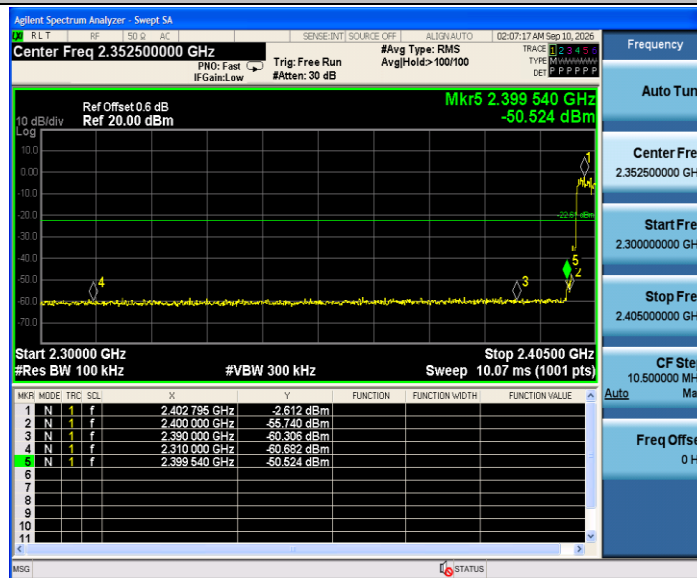
2DH5_Ant1_Low_2402



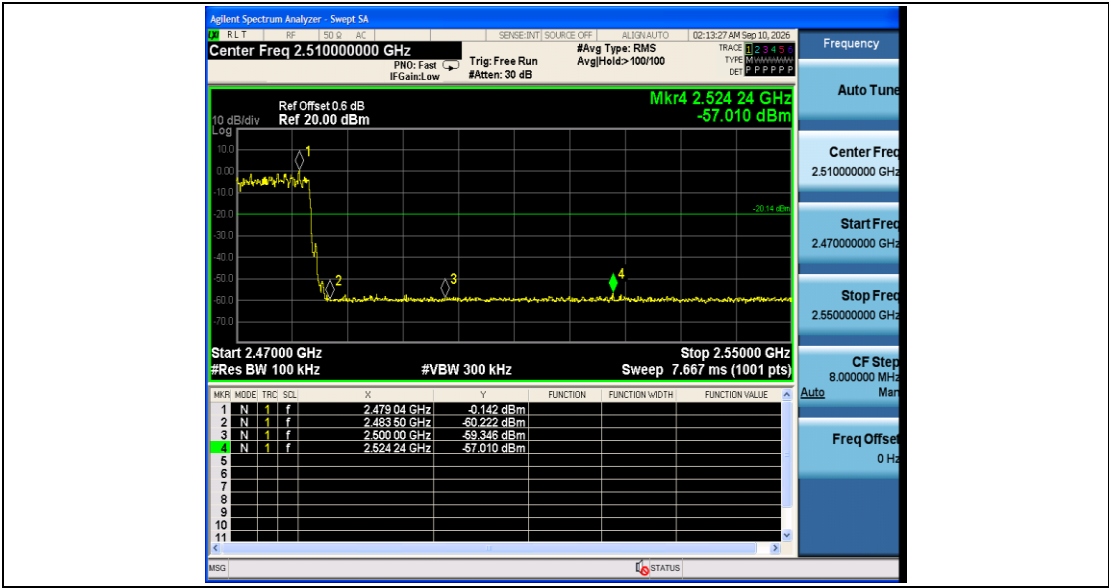
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

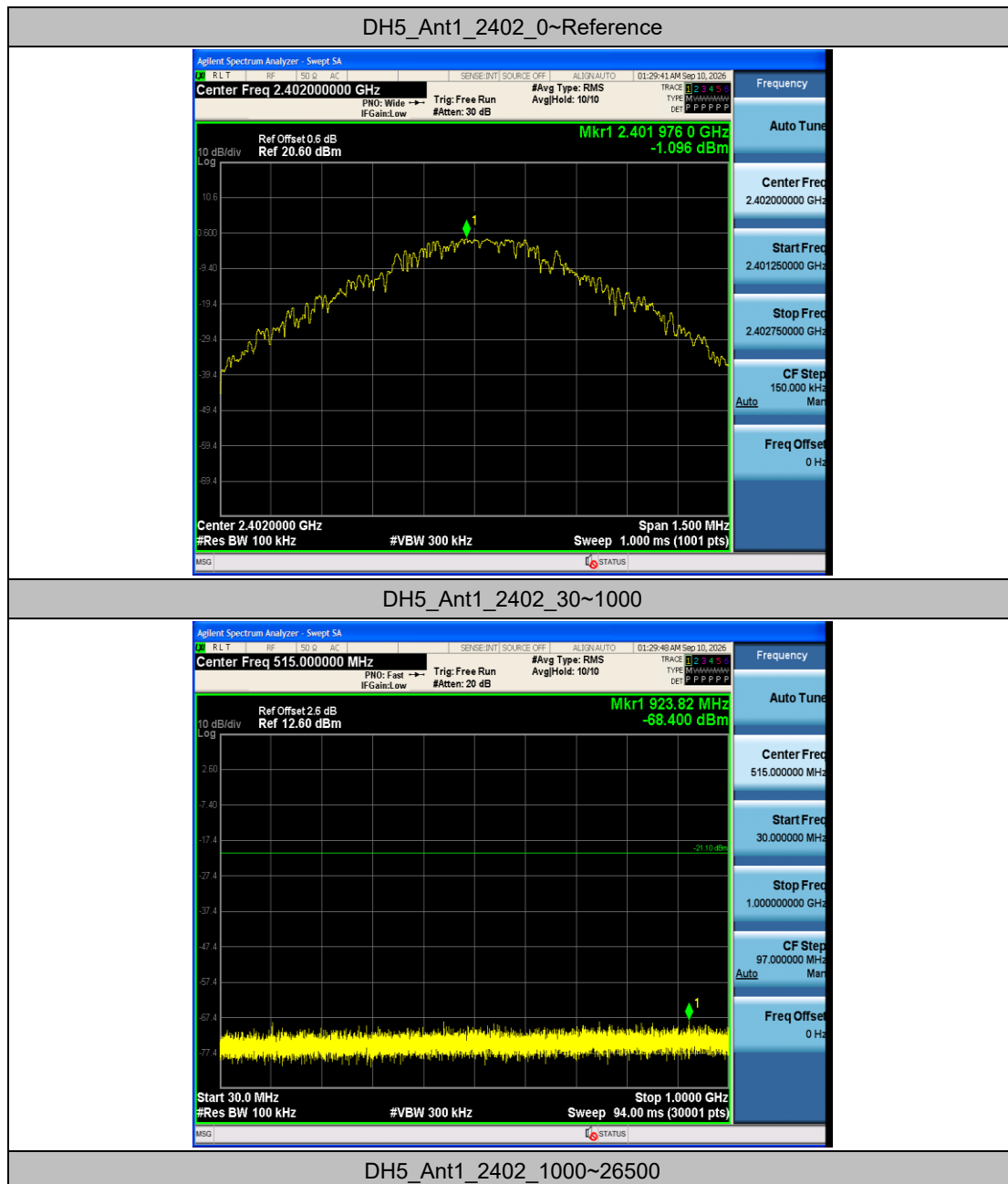


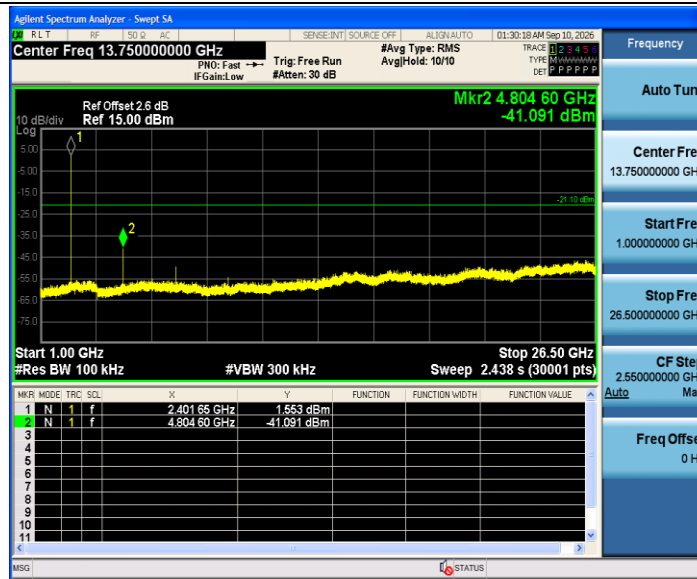
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-68.4	≤-21.1	PASS
			1000~26500	-1.10	-41.09	≤-21.1	PASS
		2441	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-68.55	≤-21.12	PASS
			1000~26500	-1.12	-41.31	≤-21.12	PASS
		2480	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-68.27	≤-21.02	PASS
			1000~26500	-1.02	-41.05	≤-21.02	PASS
2DH5	Ant1	2402	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-68.3	≤-21.91	PASS
			1000~26500	-1.91	-42.67	≤-21.91	PASS
		2441	Reference	-2.98	-2.98	---	PASS
			30~1000	-2.98	-67.91	≤-22.98	PASS
			1000~26500	-2.98	-44.6	≤-22.98	PASS
		2480	Reference	-2.29	-2.29	---	PASS
			30~1000	-2.29	-67.84	≤-22.29	PASS
			1000~26500	-2.29	-43.32	≤-22.29	PASS

Test Graphs

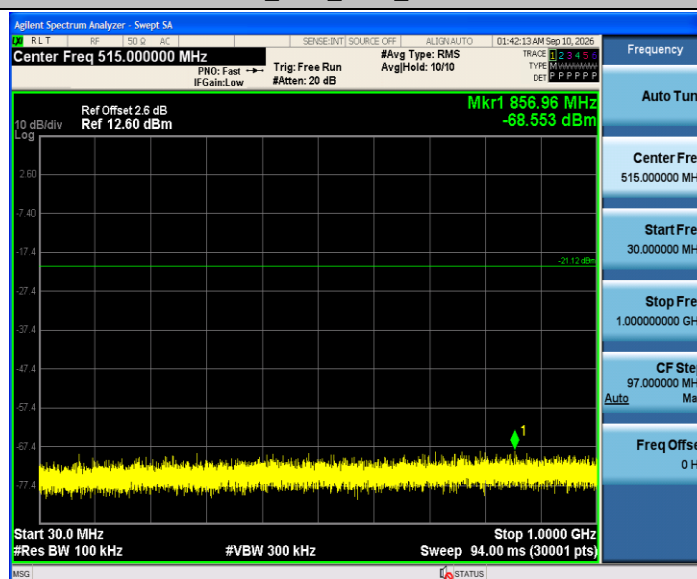




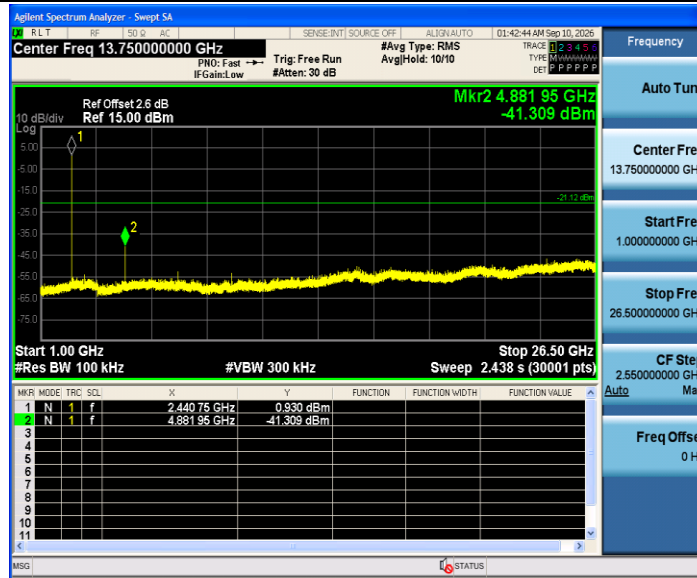
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



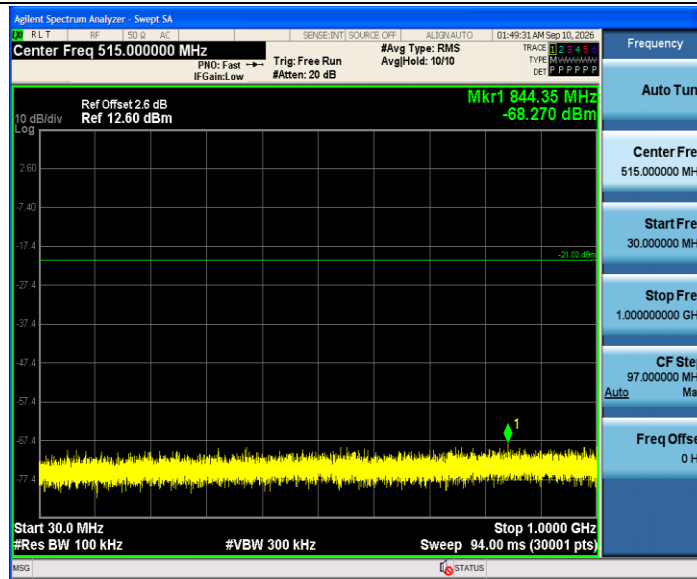
DH5_Ant1_2441_1000~26500



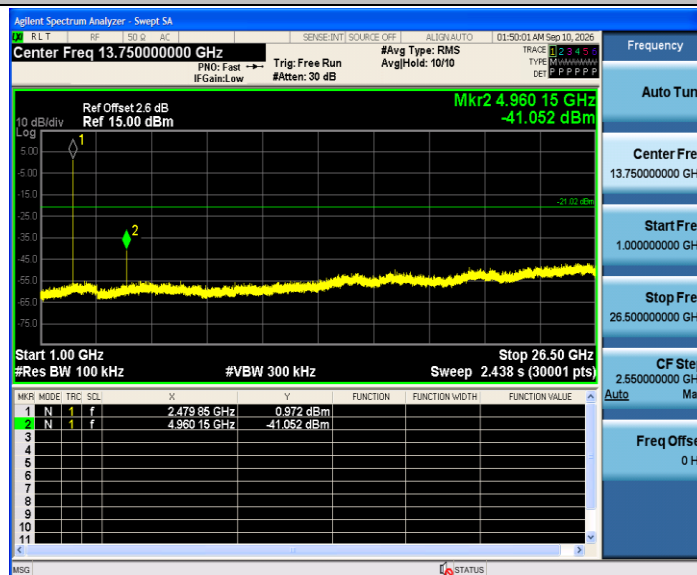
DH5_Ant1_2480_0~Reference



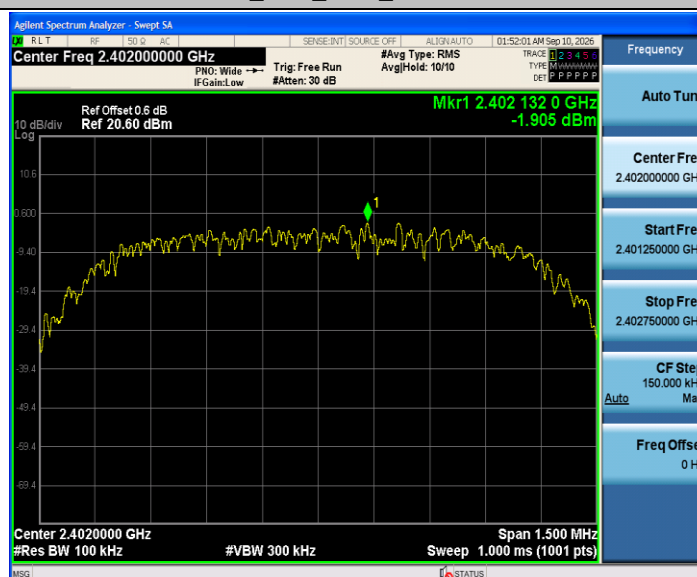
DH5_Ant1_2480_30~1000



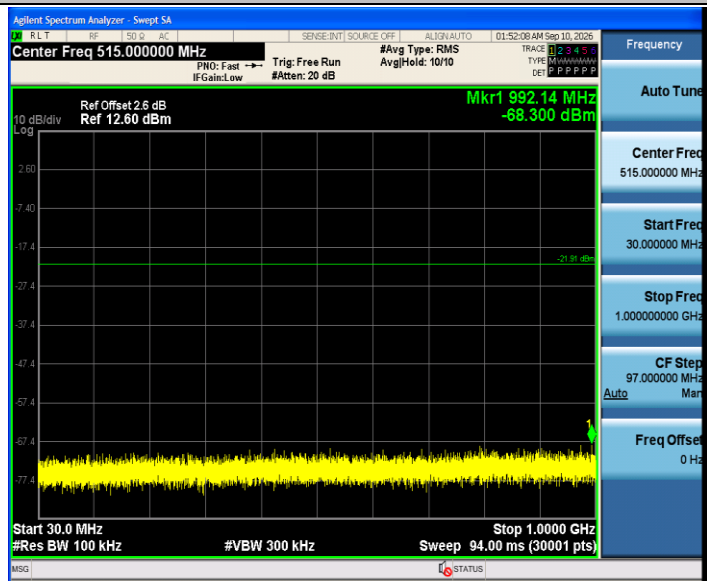
DH5_Ant1_2480_1000~26500



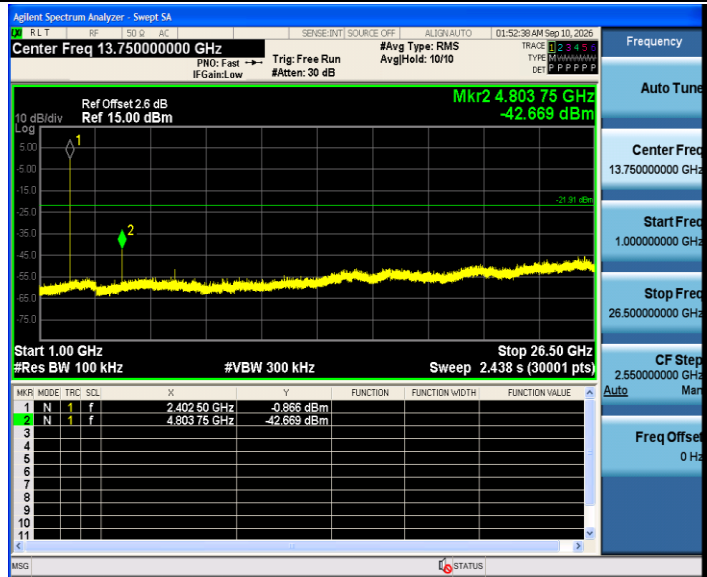
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



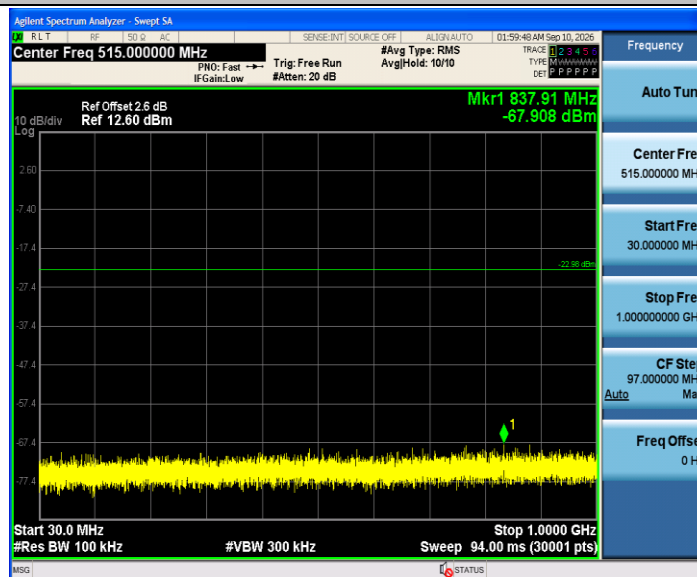
2DH5_Ant1_2402_1000~26500



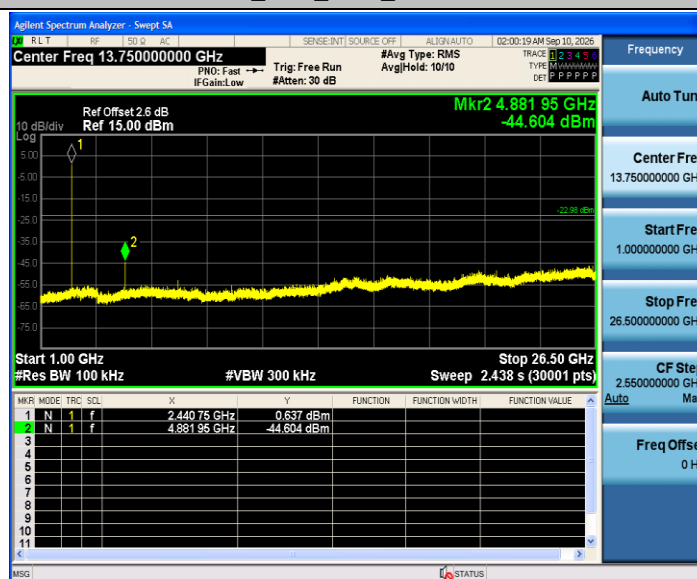
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



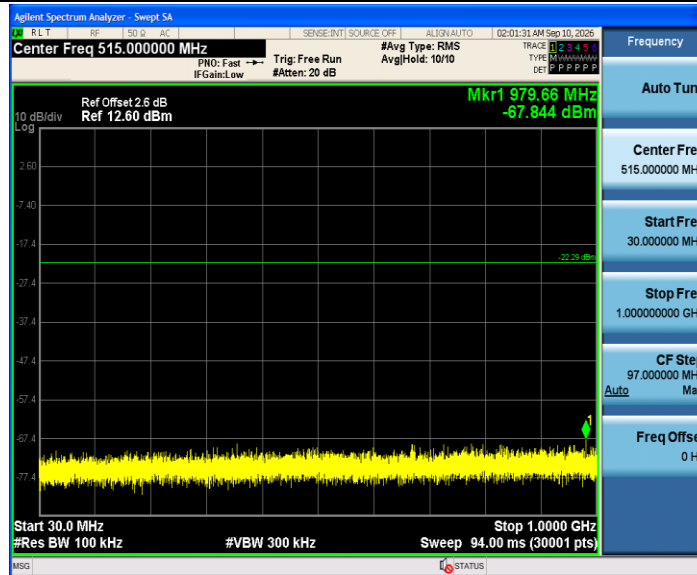
2DH5_Ant1_2441_1000~26500



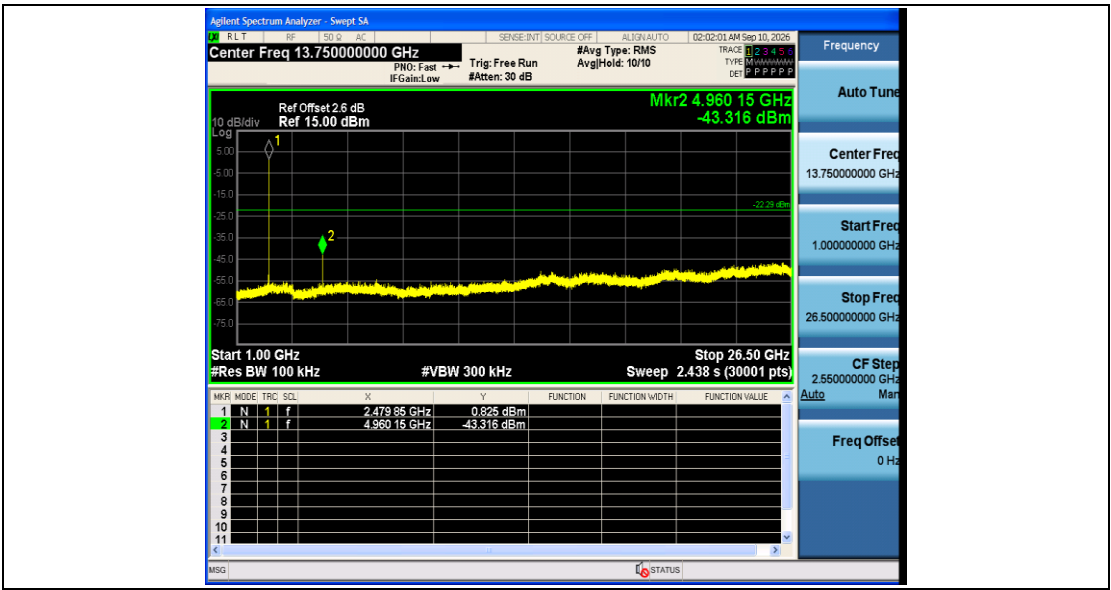
2DH5_Ant1_2480_0~Reference



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