

FCC Appendix RF Test Data

FCC ID : 2AX6P-A10

Company : NINGBO YXSOUND CO., LTD

EUT : SPEAKER

Model Number : A10

Report No. : CTA25062100301

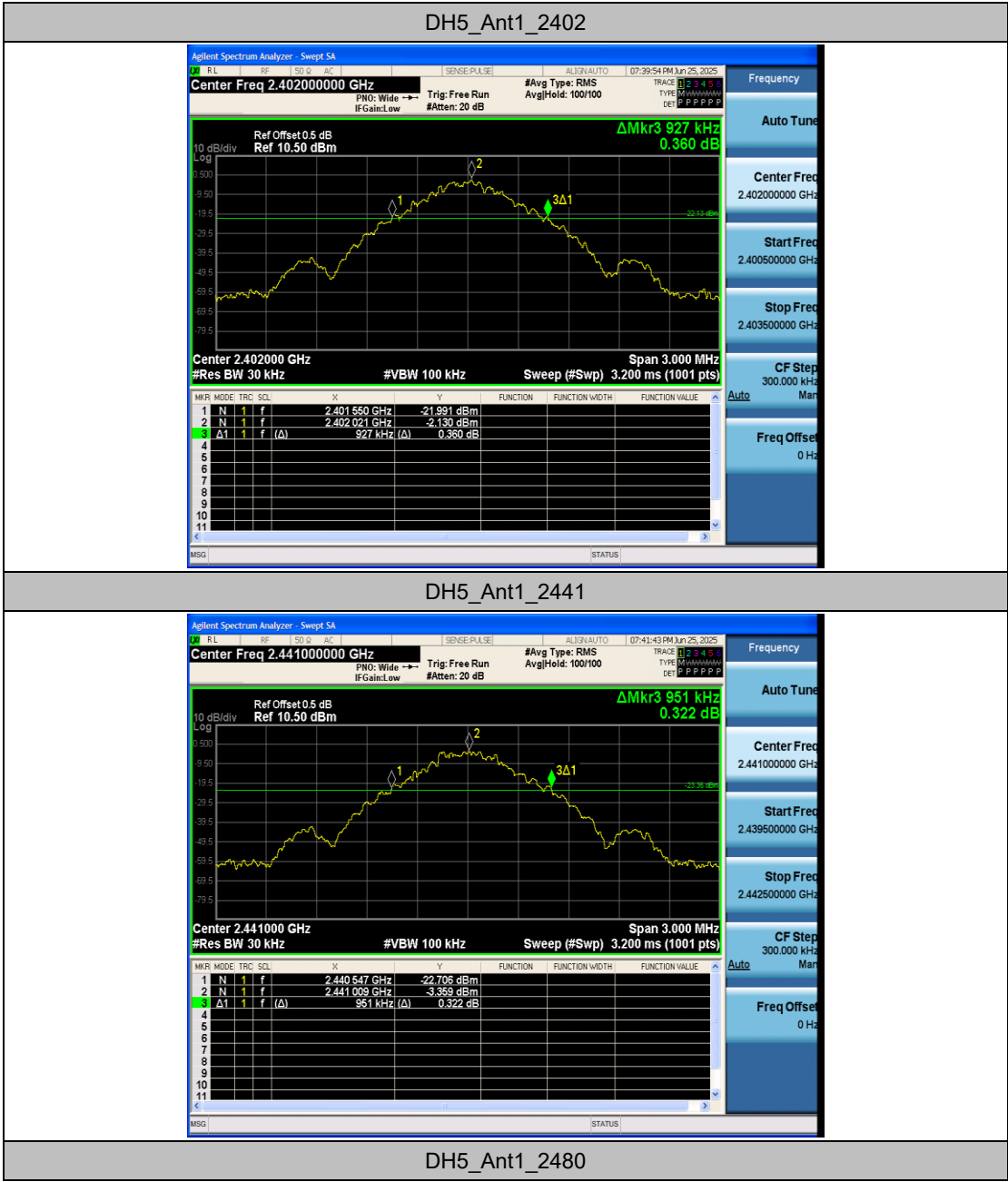
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.927	2401.550	2402.477	---	---
		2441	0.951	2440.547	2441.498	---	---
		2480	0.954	2479.544	2480.498	---	---
2DH5	Ant1	2402	1.317	2401.349	2402.666	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.317	2479.355	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

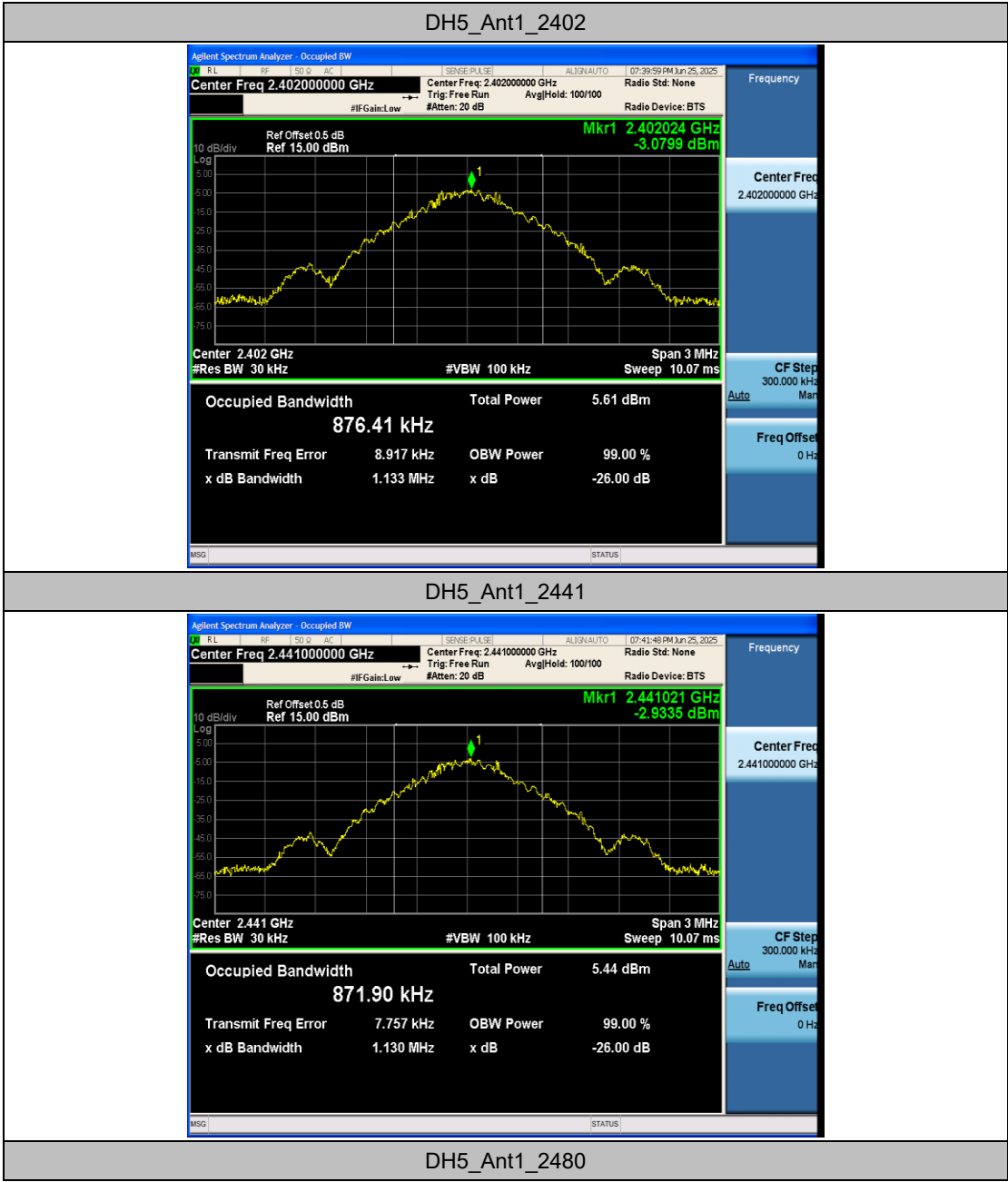


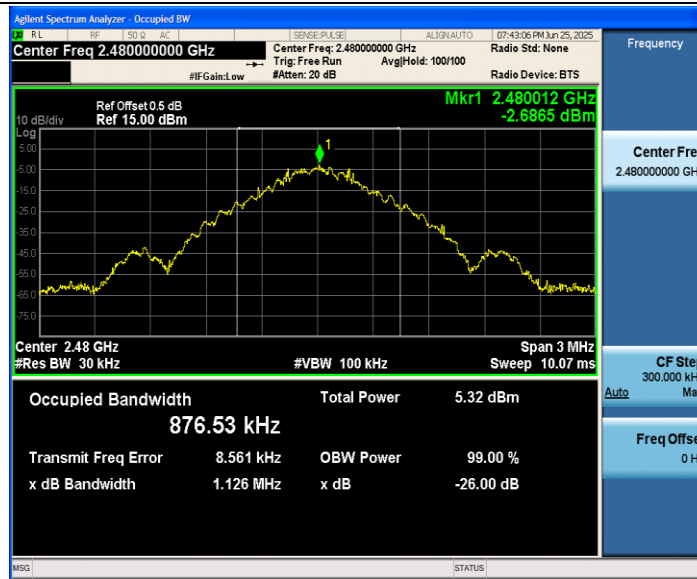
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87641	2401.5707	2402.4471	---	---
		2441	0.87190	2440.5718	2441.4437	---	---
		2480	0.87653	2479.5703	2480.4468	---	---
2DH5	Ant1	2402	1.1876	2401.4156	2402.6032	---	---
		2441	1.1874	2440.4155	2441.6029	---	---
		2480	1.1909	2479.4155	2480.6064	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

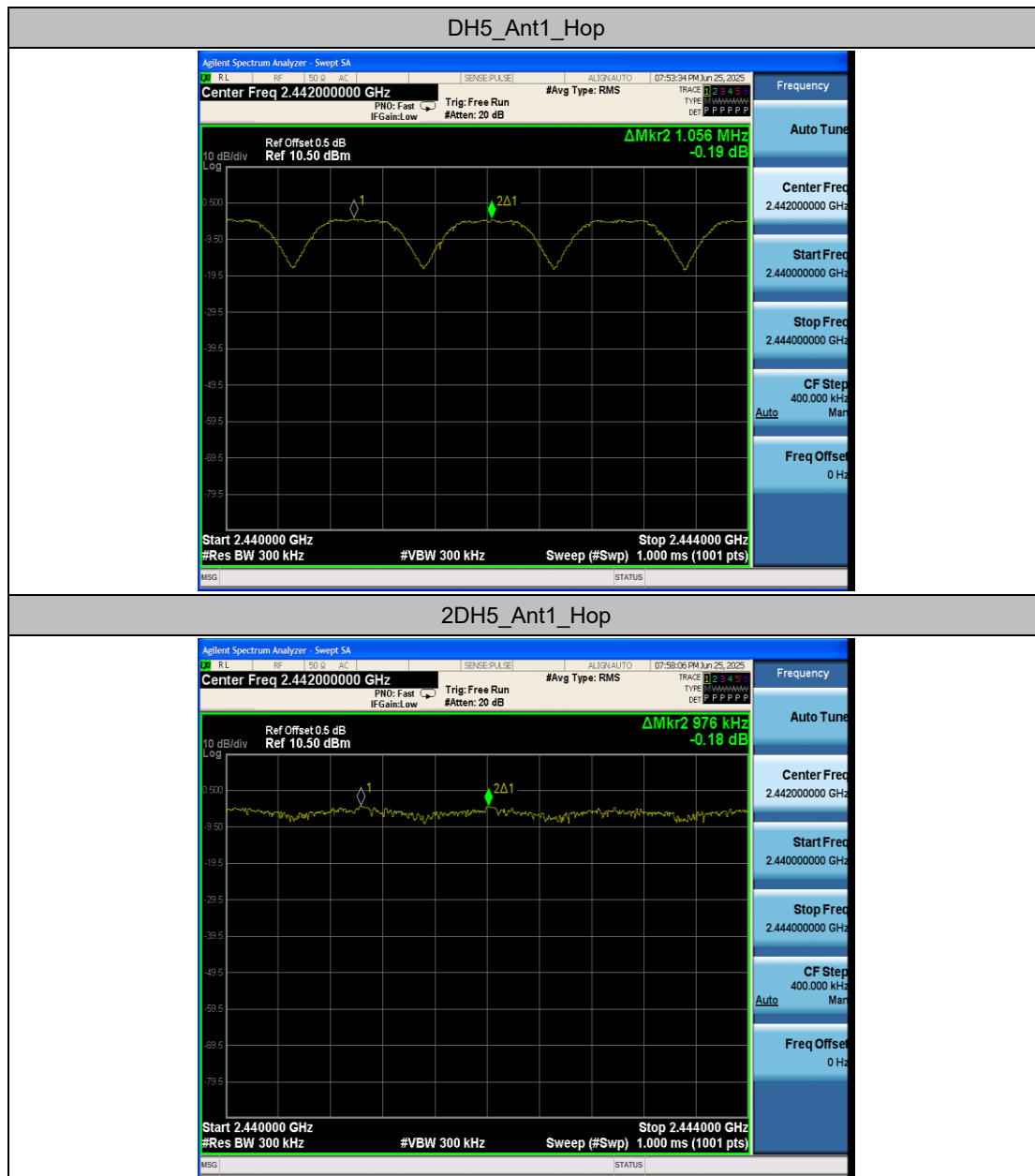
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.19	≤20.97	PASS
		2441	-0.43	≤20.97	PASS
		2480	-0.51	≤20.97	PASS
2DH5	Ant1	2402	-1.03	≤20.97	PASS
		2441	-1.14	≤20.97	PASS
		2480	-1.25	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.056	≥ 0.954	PASS
2DH5	Ant1	Hop	0.976	≥ 0.882	PASS

Test Graphs

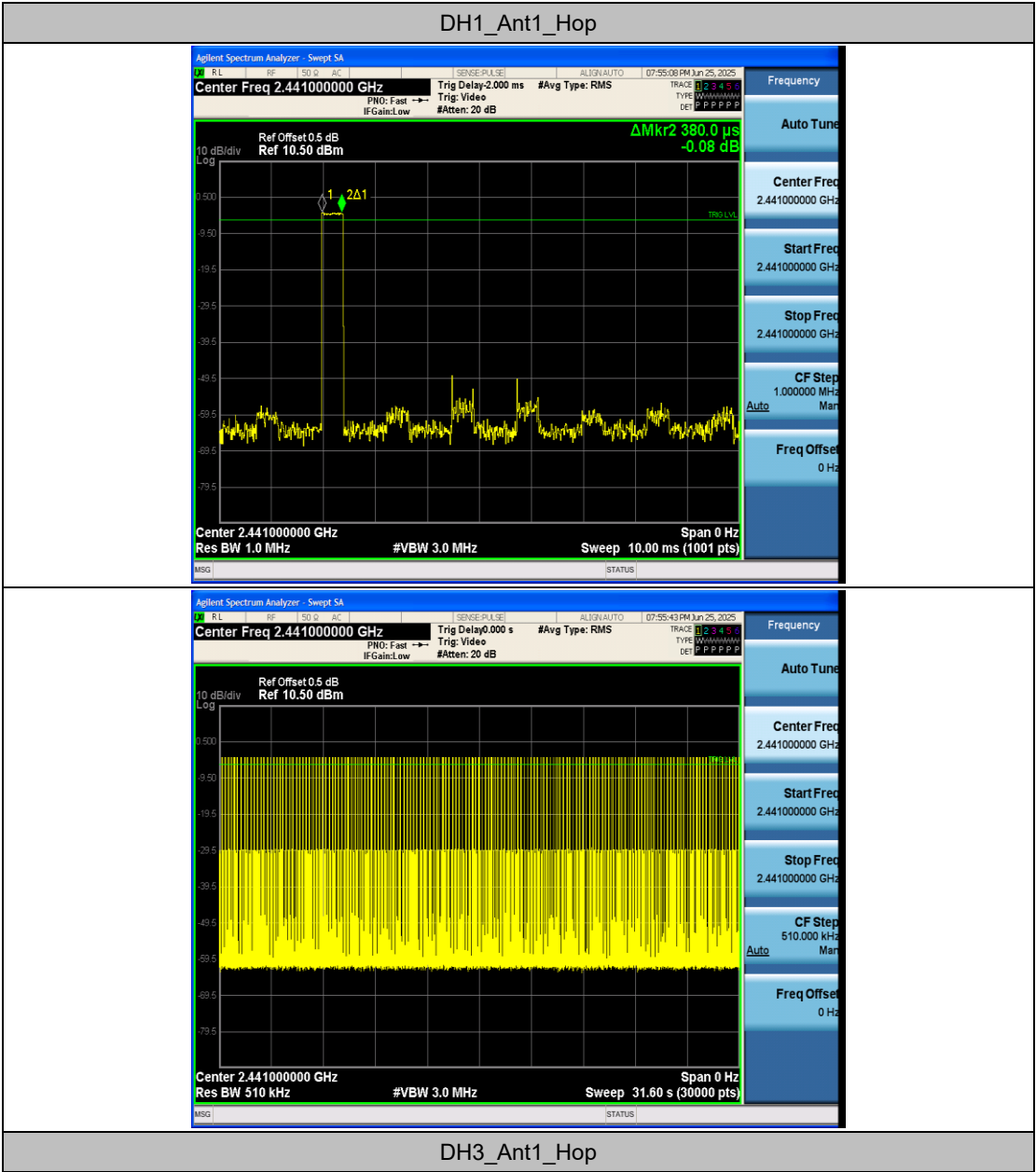


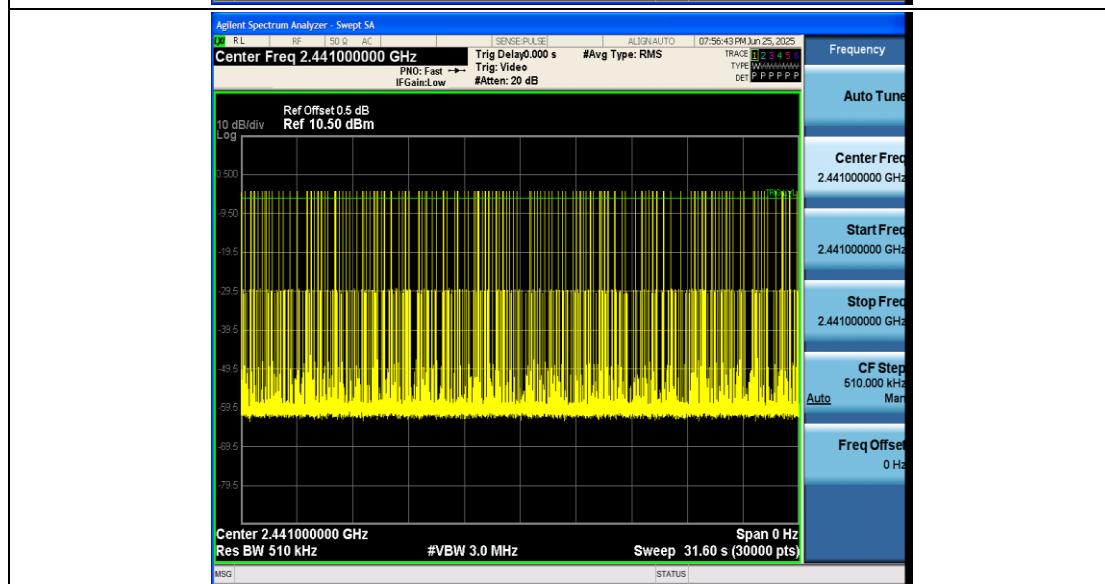
Appendix E: Time of occupancy

Test Result

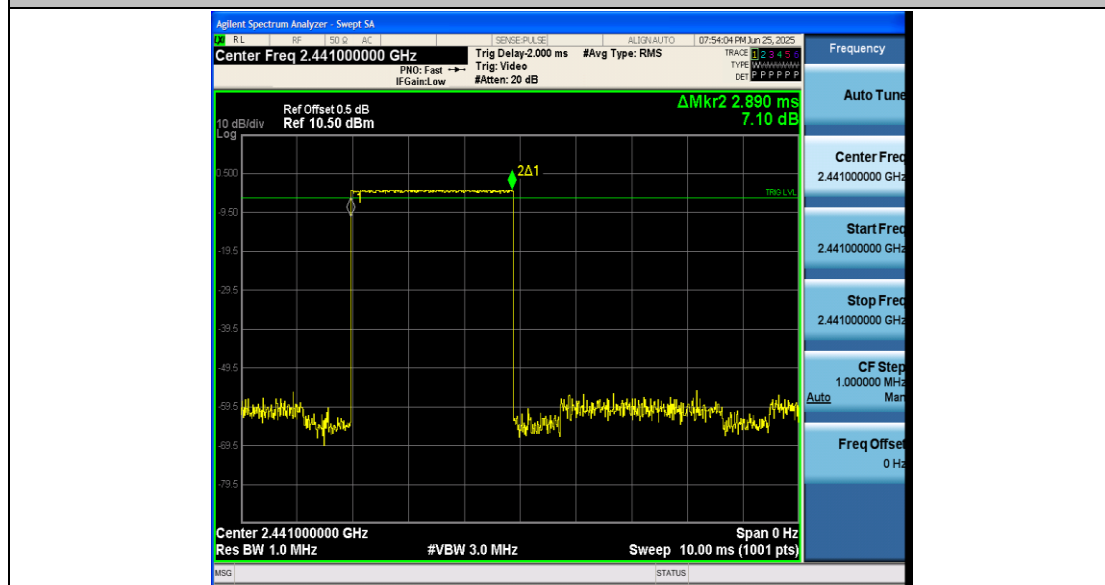
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	318	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.650	158	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.890	105	0.303	≤0.4	PASS
2DH1	Ant1	Hop	0.390	312	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.650	155	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.900	98	0.284	≤0.4	PASS

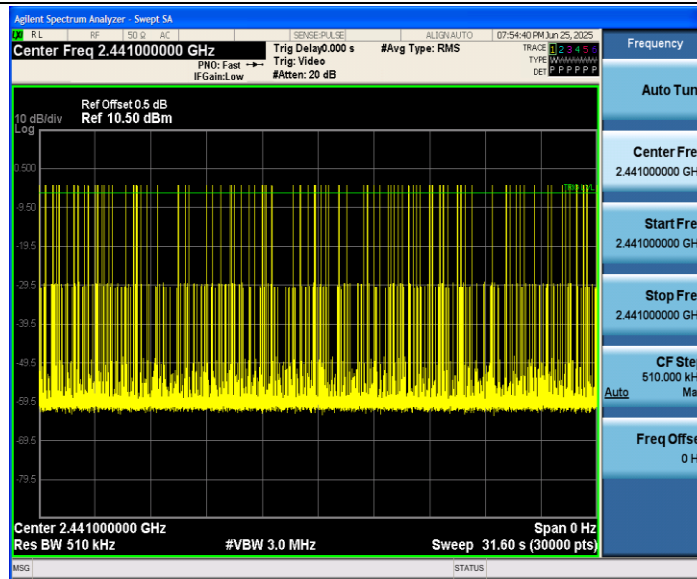
Test Graphs



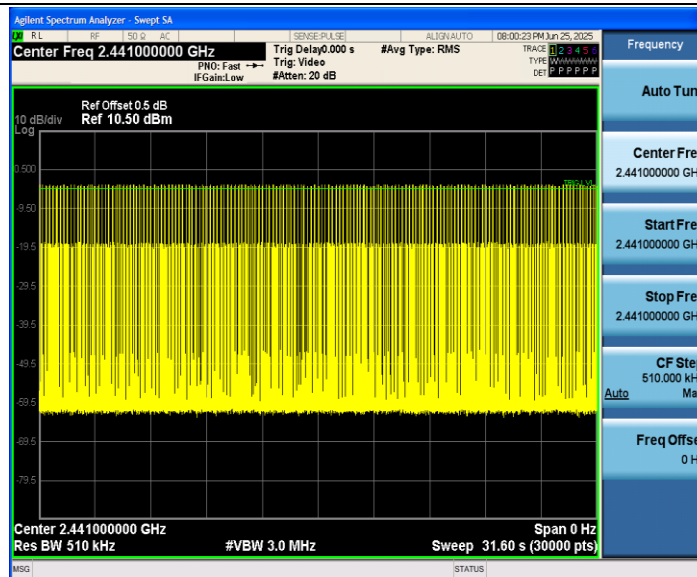
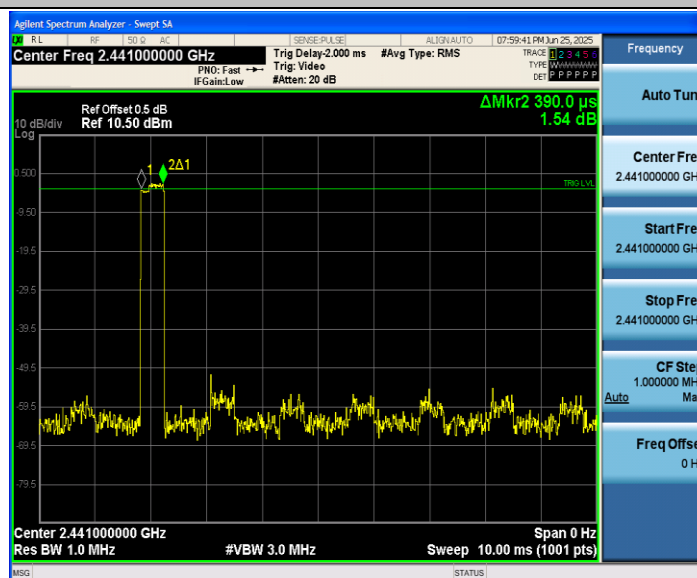


DH5_Ant1_Hop

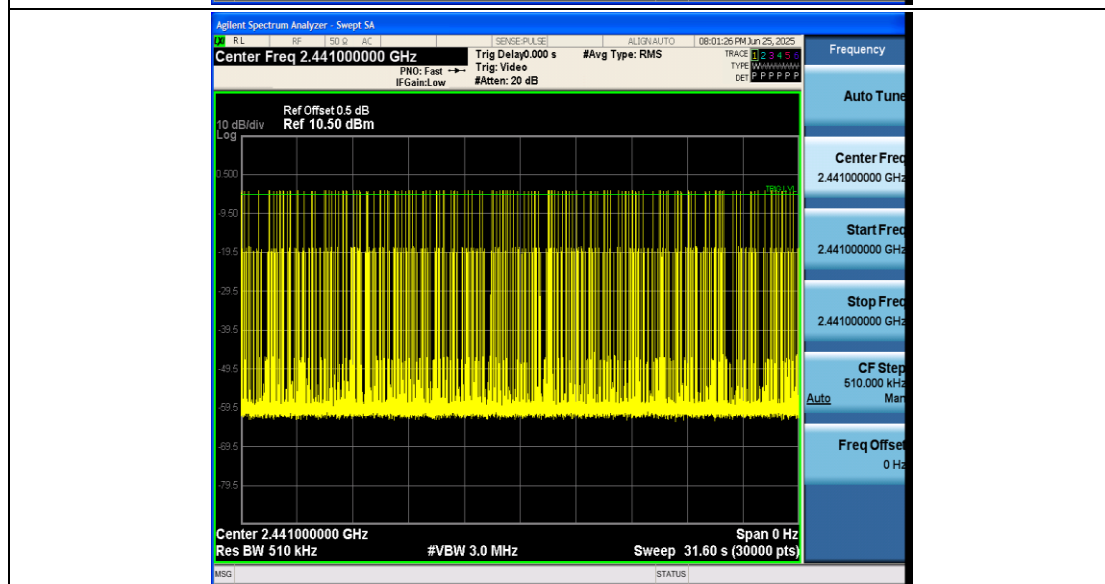




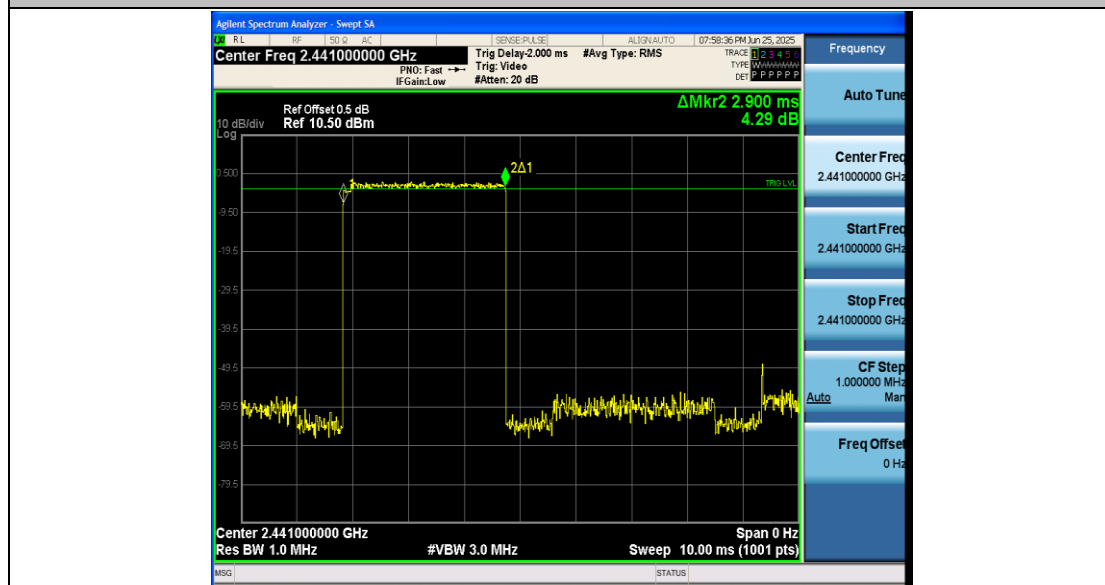
2DH1_Ant1_Hop

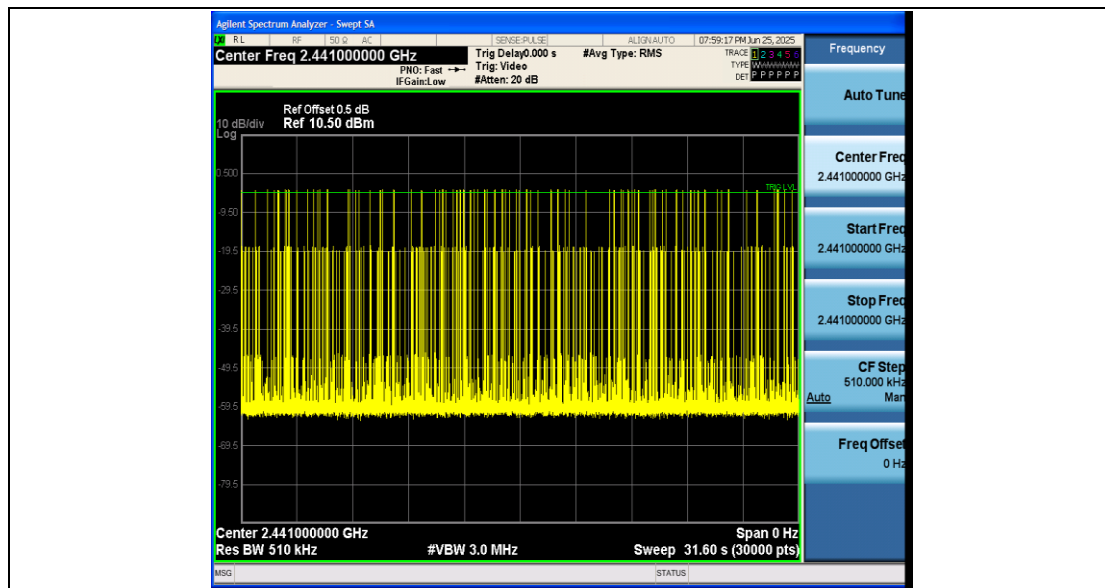


2DH3_Ant1_Hop



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



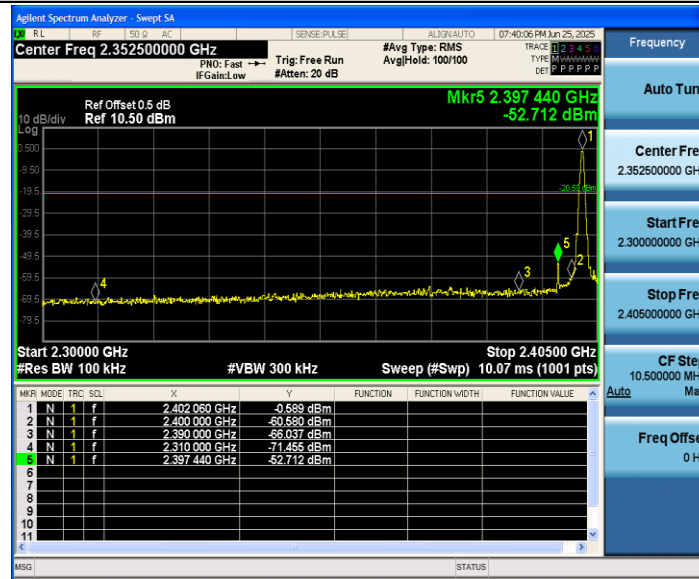
Appendix G: Band edge measurements

Test Result

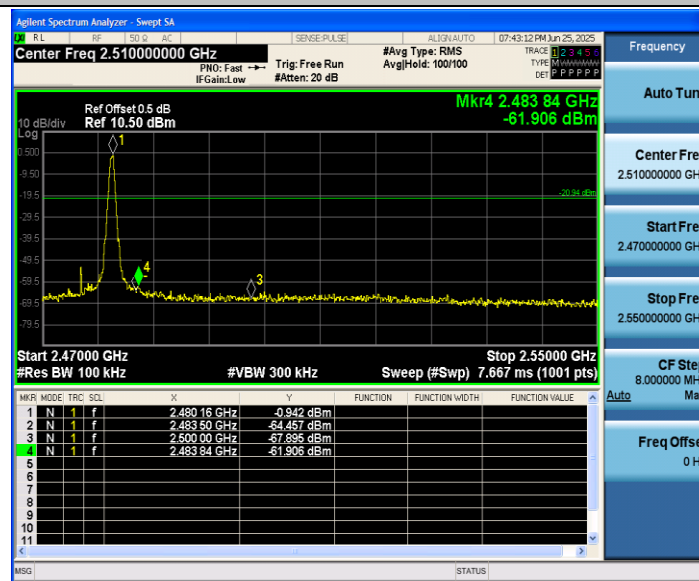
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.59	-52.71	≤-20.59	PASS
		High	2480	-0.94	-61.91	≤-20.94	PASS
		Low	Hop_2402	-4.40	-63.78	≤-24.4	PASS
		High	Hop_2480	-4.24	-64.43	≤-24.24	PASS
2DH5	Ant1	Low	2402	-4.15	-59	≤-24.15	PASS
		High	2480	-5.71	-63.97	≤-25.71	PASS
		Low	Hop_2402	-6.50	-62.61	≤-26.5	PASS
		High	Hop_2480	-4.76	-63.15	≤-24.76	PASS

Test Graphs

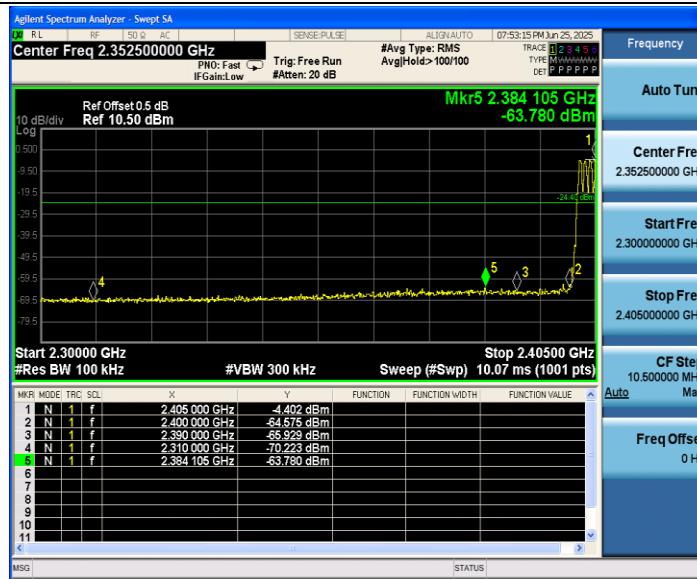
DH5_Ant1_Low_2402



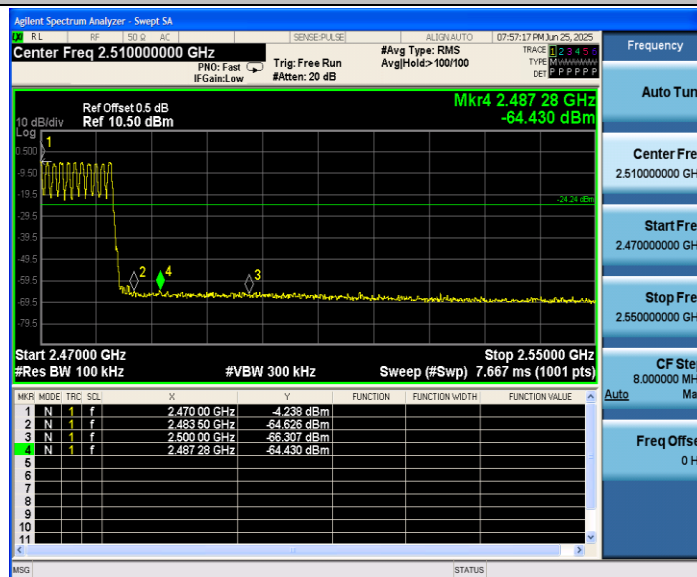
DH5_Ant1_High_2480



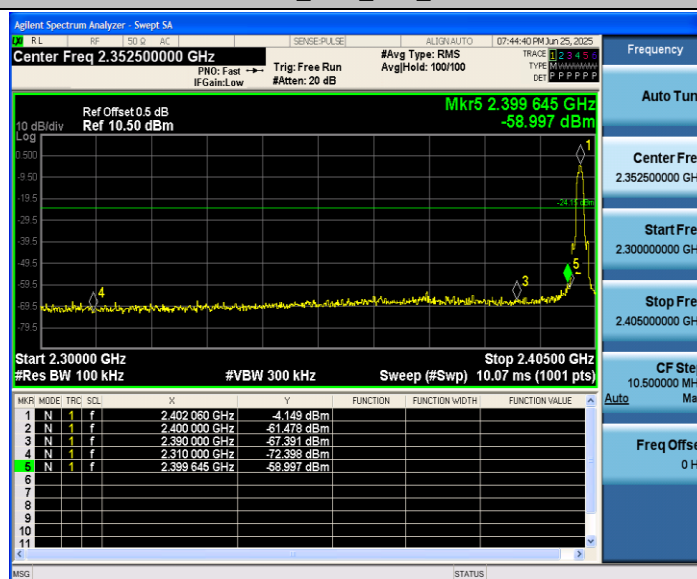
DH5_Ant1_Low_Hop_2402



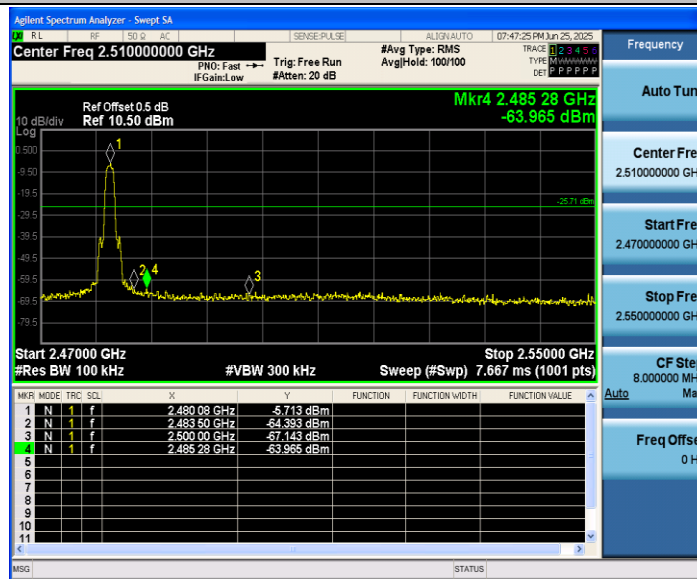
DH5_Ant1_High_Hop_2480



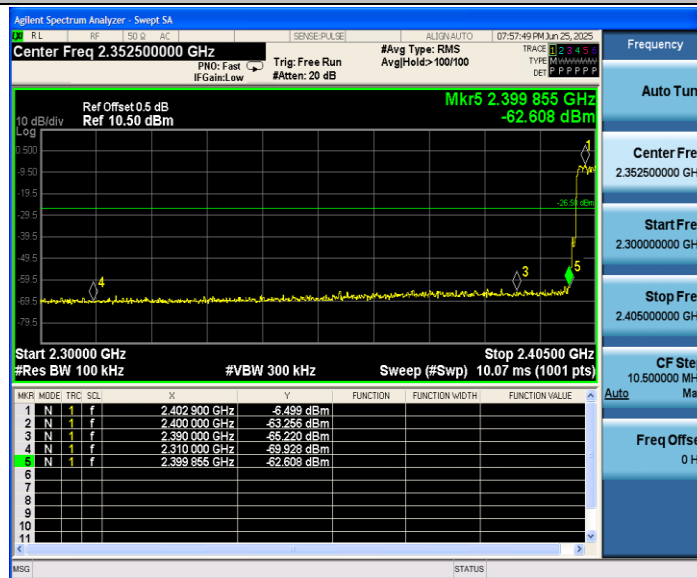
2DH5_Ant1_Low_2402



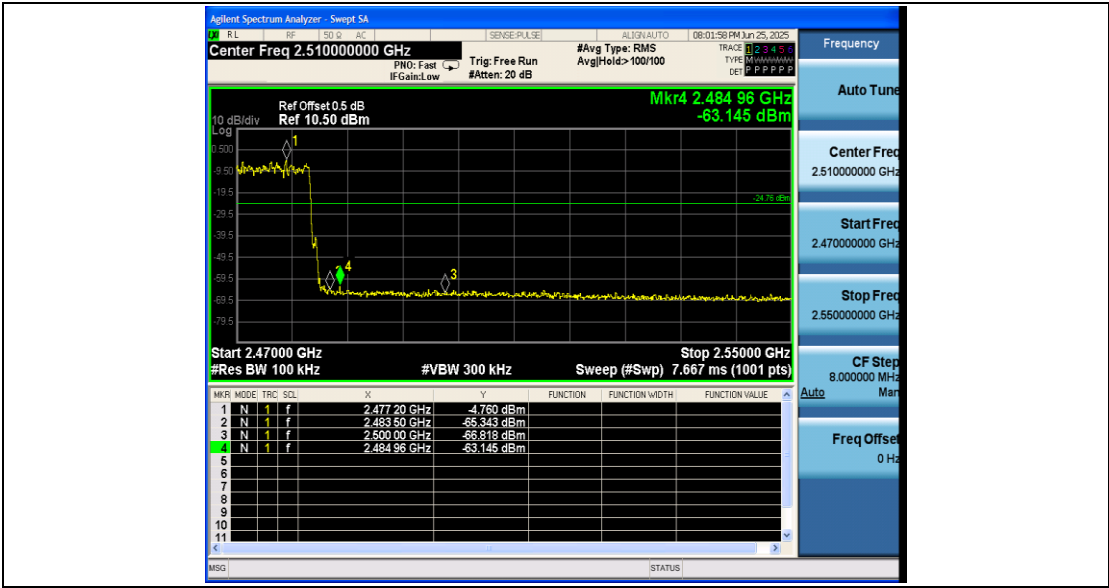
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

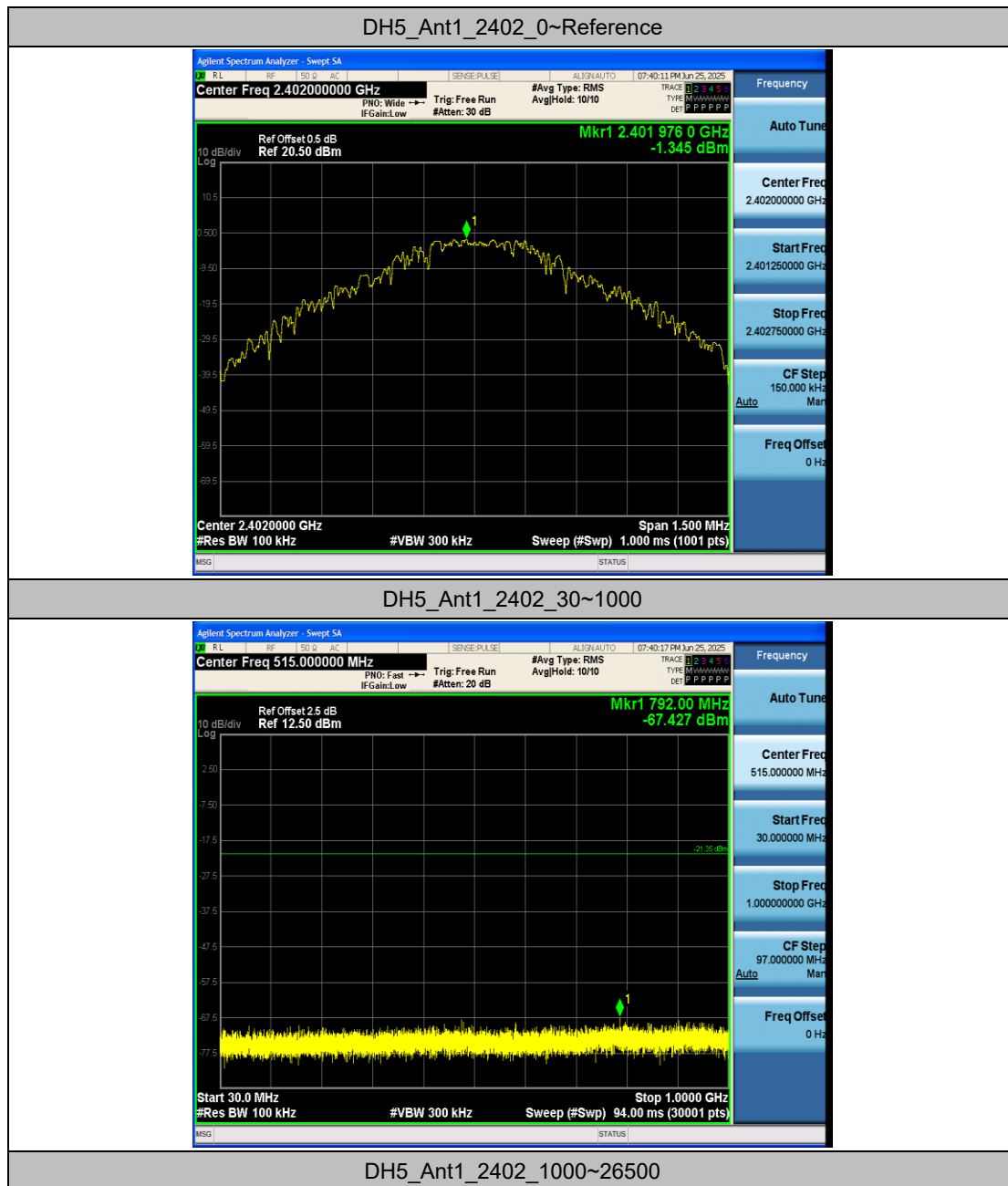


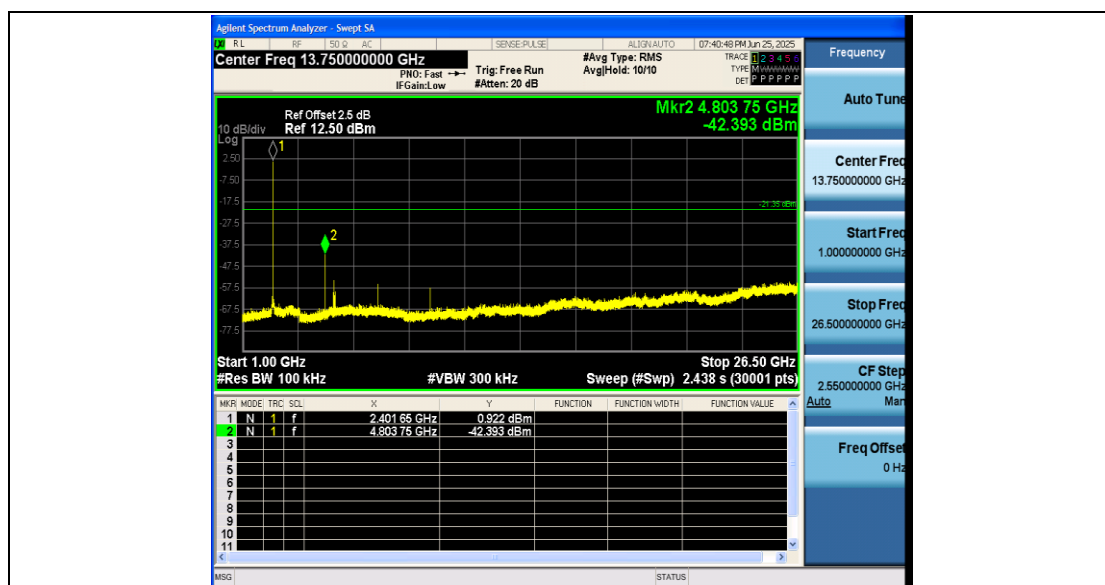
Appendix H: Conducted Spurious Emission

Test Result

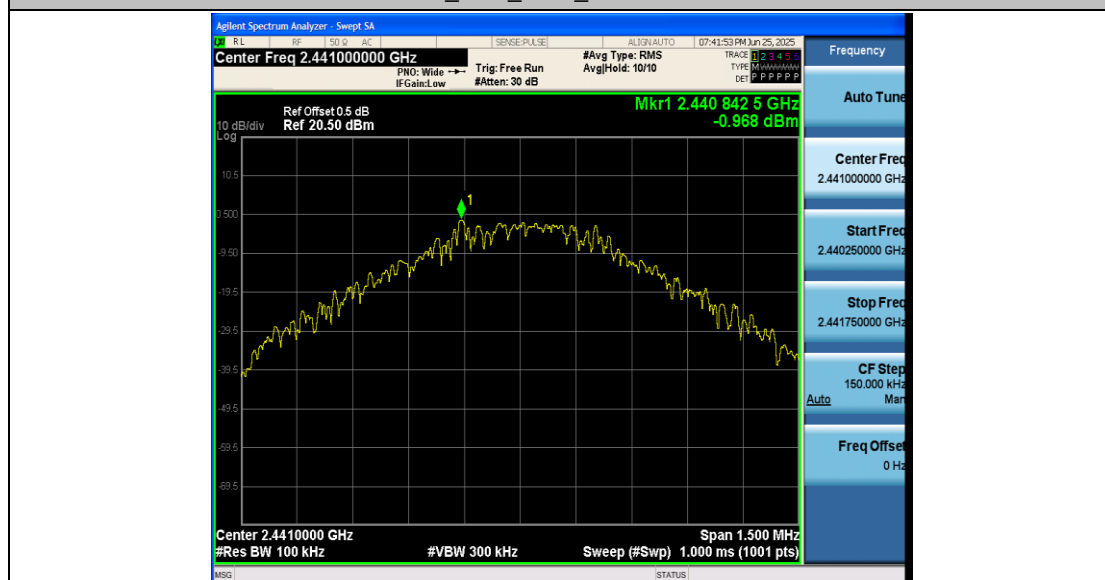
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-67.43	≤-21.35	PASS
			1000~26500	-1.35	-42.39	≤-21.35	PASS
		2441	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-67.98	≤-20.97	PASS
			1000~26500	-0.97	-43.7	≤-20.97	PASS
		2480	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-67.7	≤-21.37	PASS
			1000~26500	-1.37	-44.32	≤-21.37	PASS
2DH5	Ant1	2402	Reference	-6.52	-6.52	---	PASS
			30~1000	-6.52	-68.1	≤-26.52	PASS
			1000~26500	-6.52	-47.27	≤-26.52	PASS
		2441	Reference	-6.58	-6.58	---	PASS
			30~1000	-6.58	-67.59	≤-26.58	PASS
			1000~26500	-6.58	-48.16	≤-26.58	PASS
		2480	Reference	-6.62	-6.62	---	PASS
			30~1000	-6.62	-68.04	≤-26.62	PASS
			1000~26500	-6.62	-48.55	≤-26.62	PASS

Test Graphs

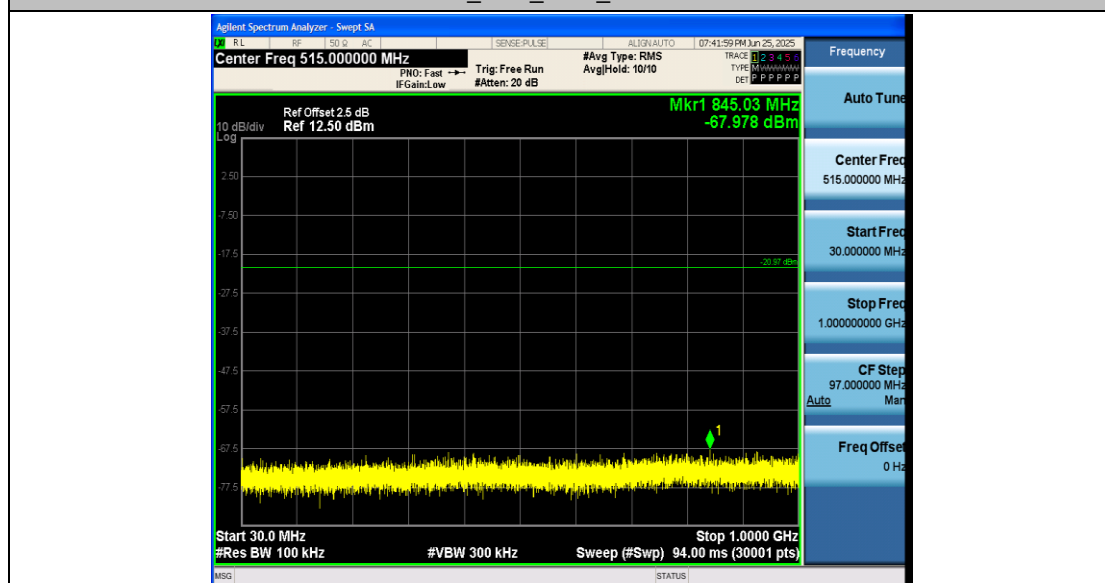




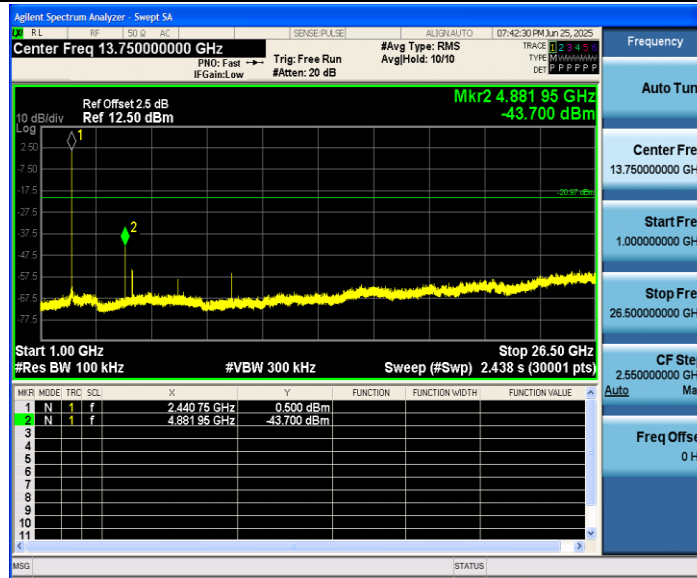
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



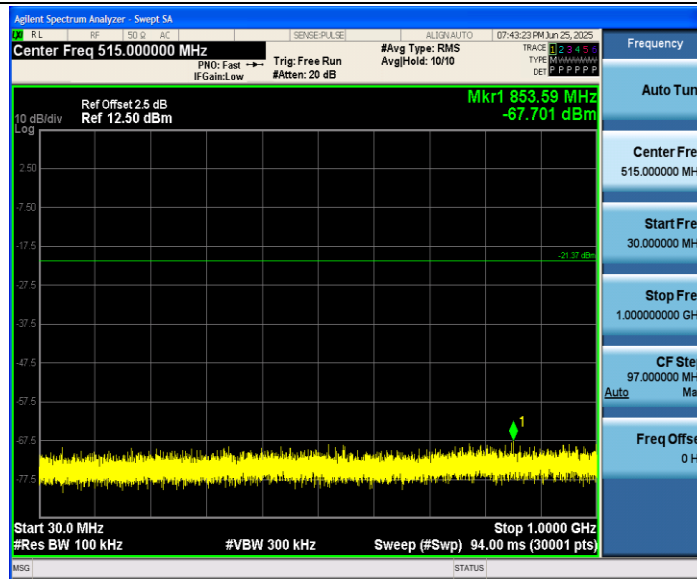
DH5_Ant1_2441_1000~26500



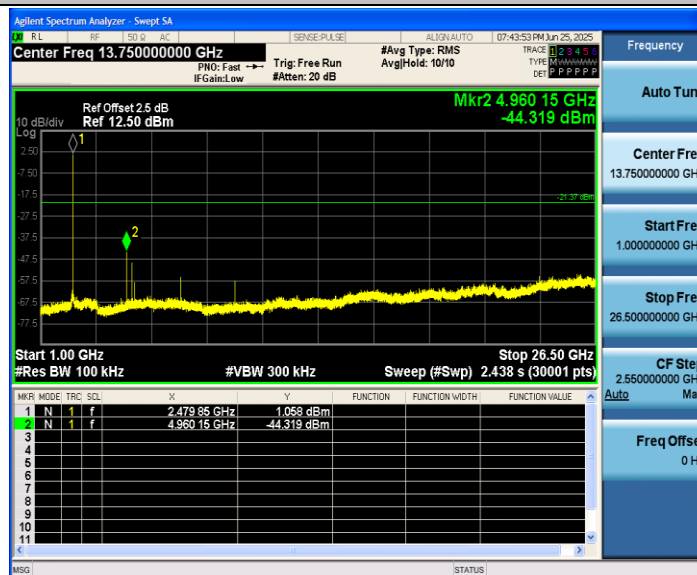
DH5_Ant1_2480_0~Reference



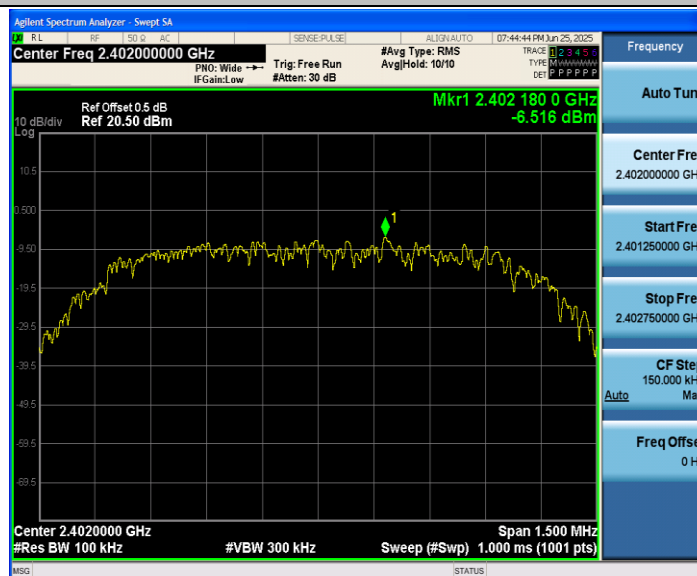
DH5_Ant1_2480_30~1000



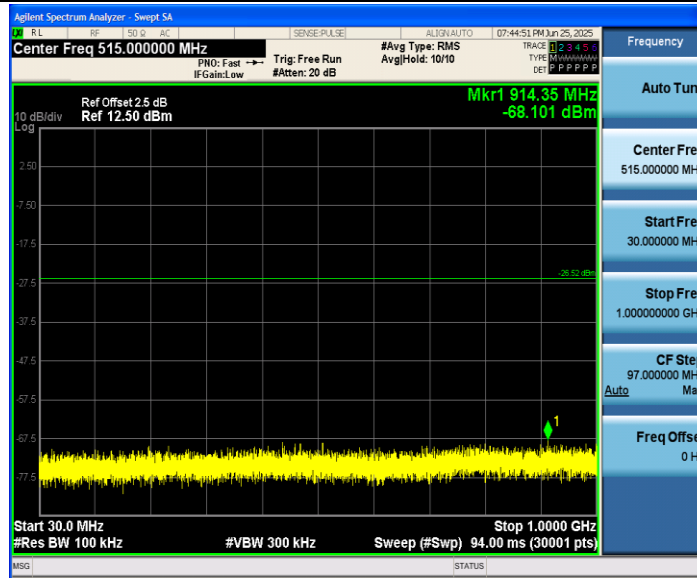
DH5_Ant1_2480_1000~26500



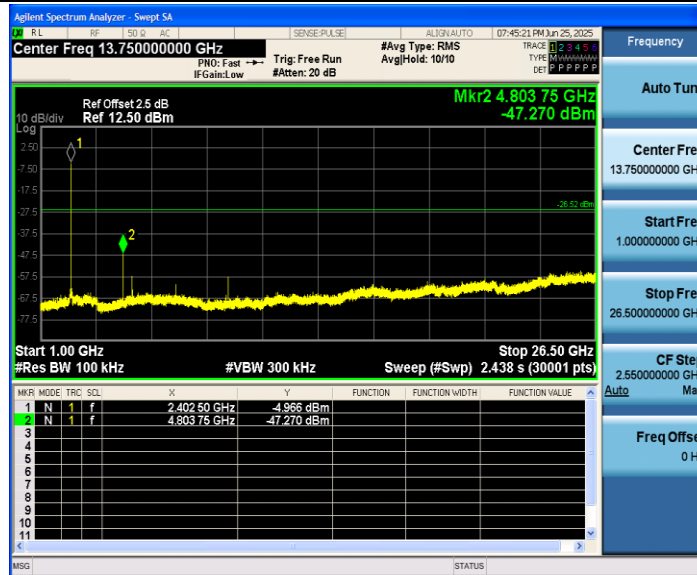
2DH5_Ant1_2402_0~Reference



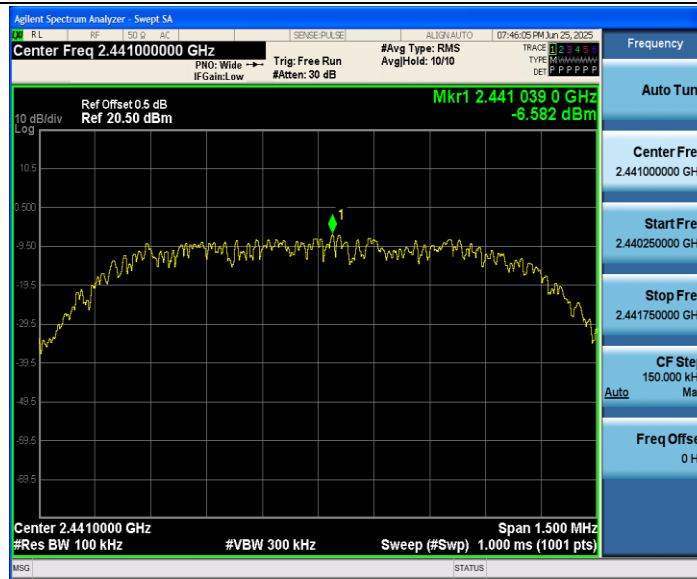
2DH5_Ant1_2402_30~1000



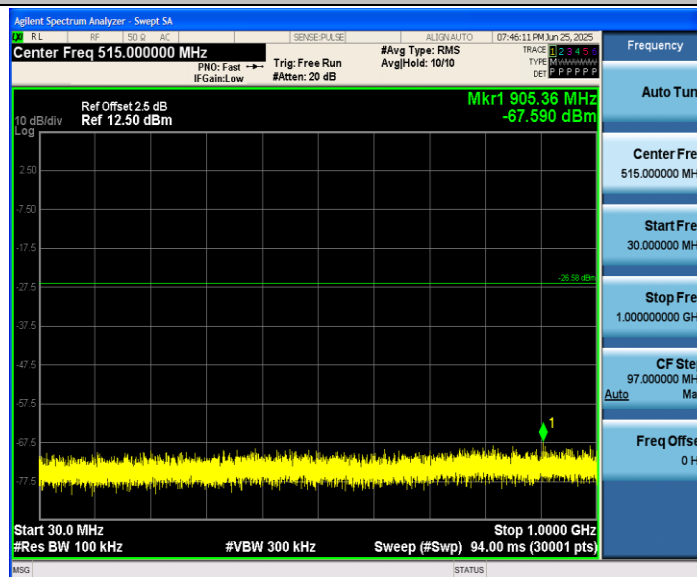
2DH5_Ant1_2402_1000~26500



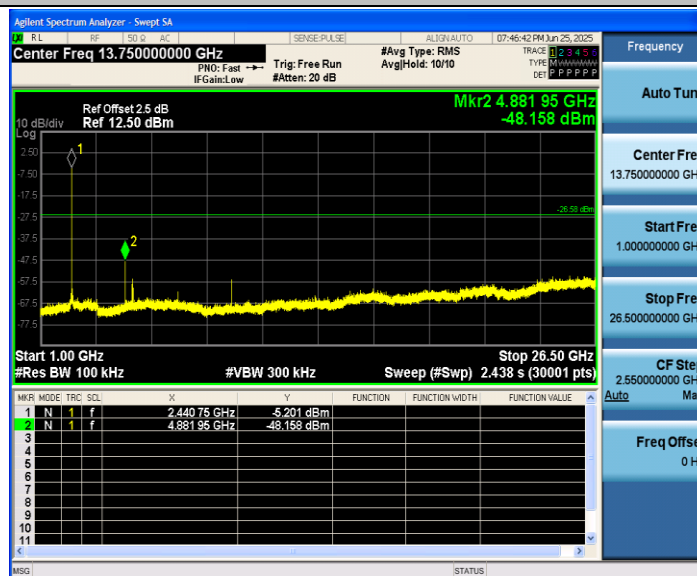
2DH5_Ant1_2441_0~Reference



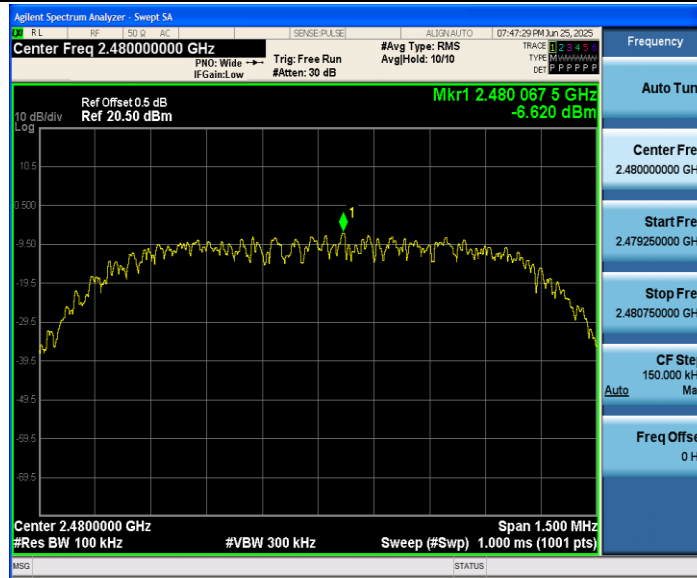
2DH5_Ant1_2441_30~1000



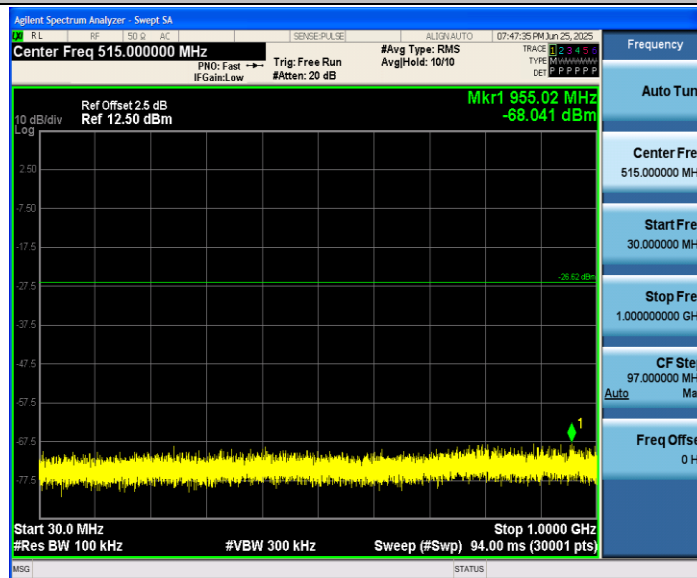
2DH5_Ant1_2441_1000~26500



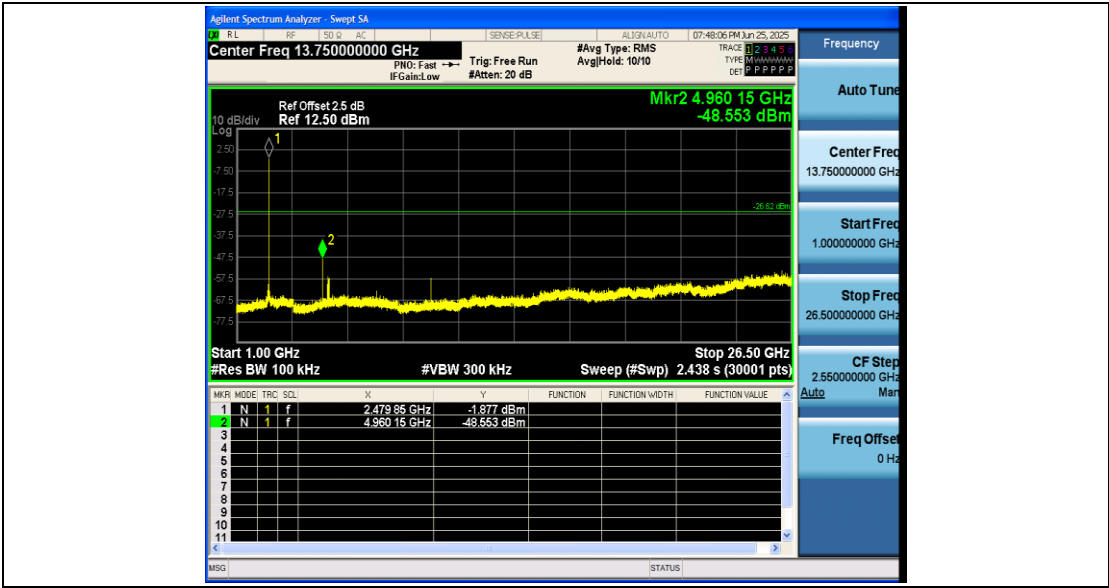
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

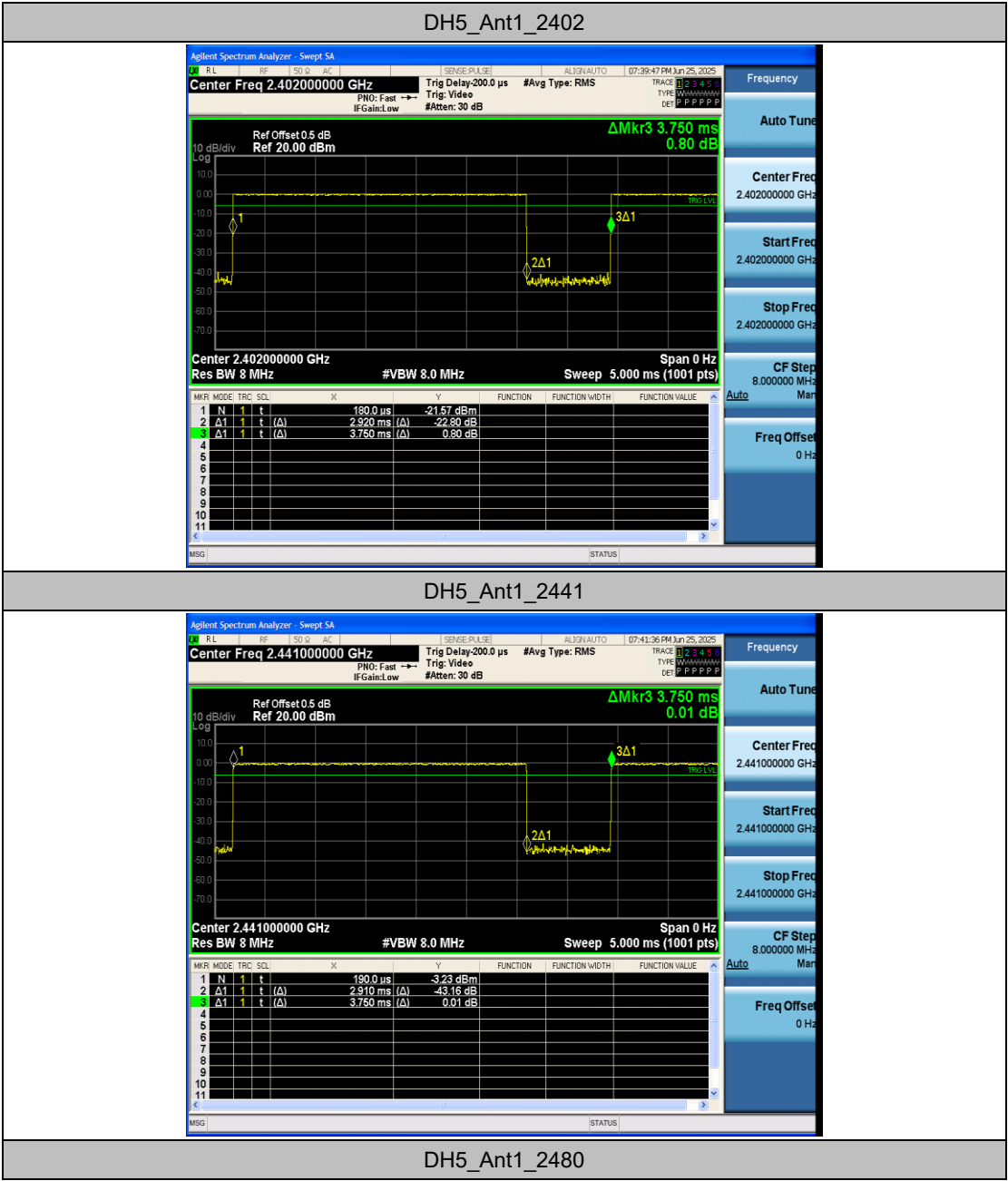


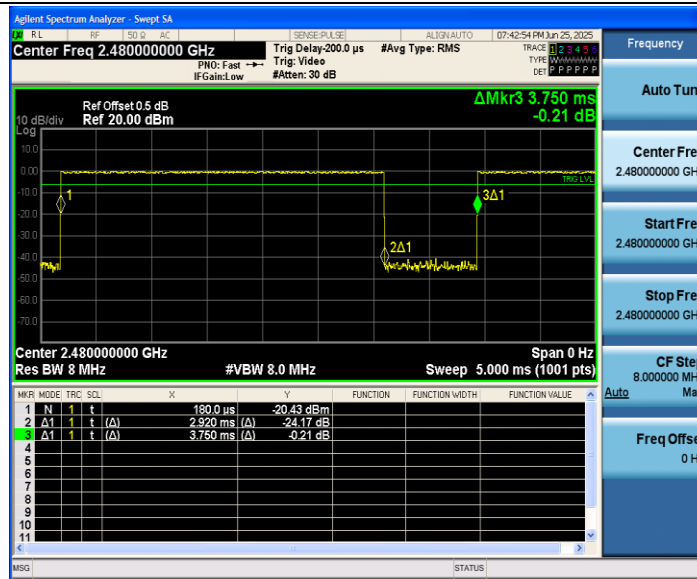
Appendix I: Duty Cycle

Test Result

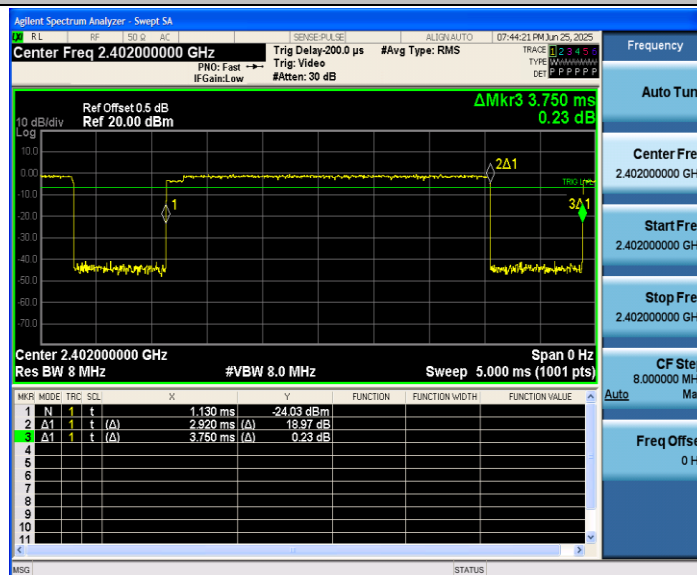
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---

Test Graphs

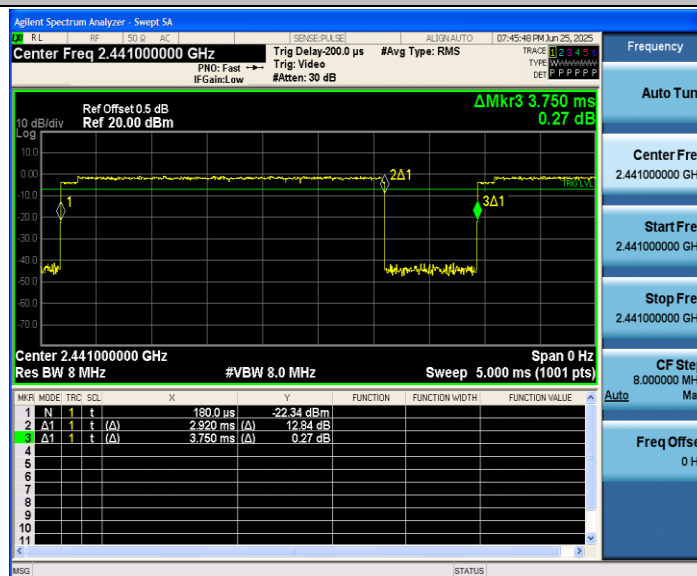




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

