

FCC Appendix RF Test Data

FCC ID : 2AX6P-VRX812ADSP

Company : NINGBO YXSOUND CO., LTD

EUT : SPEAKER

Model Number : VRX812ADSP

Report No. : CTA25062100201

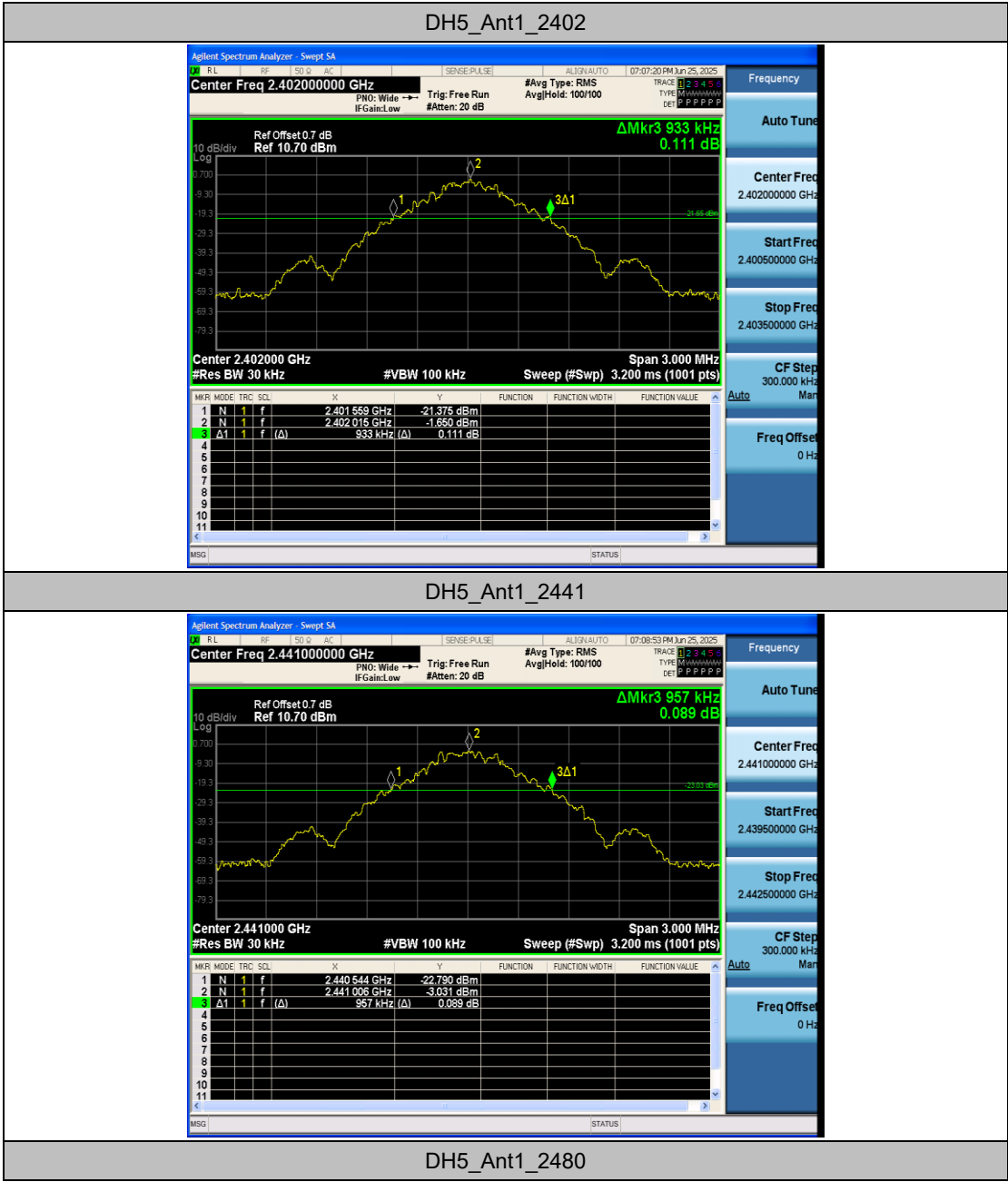
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.933	2401.559	2402.492	---	---
		2441	0.957	2440.544	2441.501	---	---
		2480	0.951	2479.550	2480.501	---	---
2DH5	Ant1	2402	1.311	2401.352	2402.663	---	---
		2441	1.317	2440.349	2441.666	---	---
		2480	1.284	2479.379	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

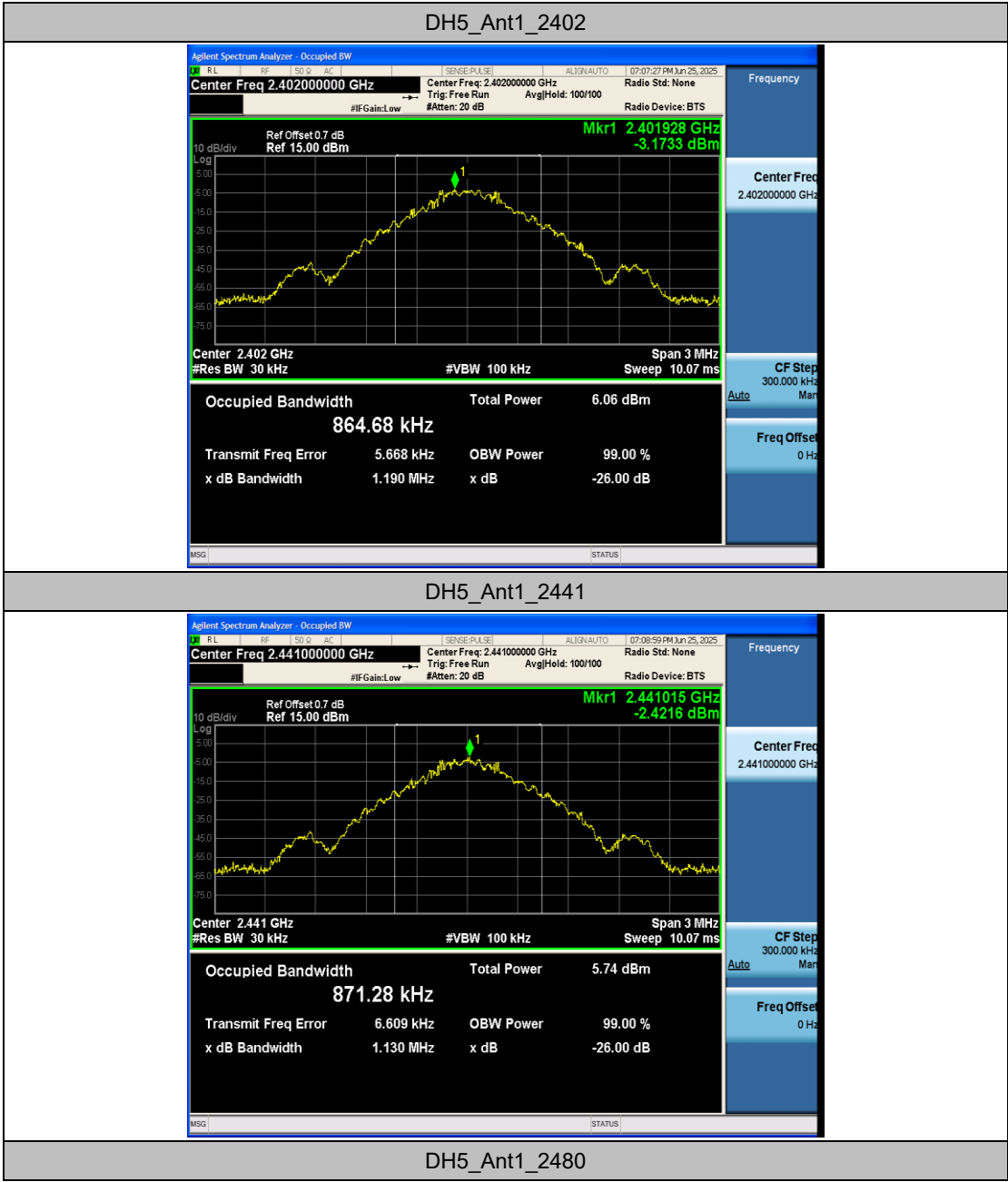


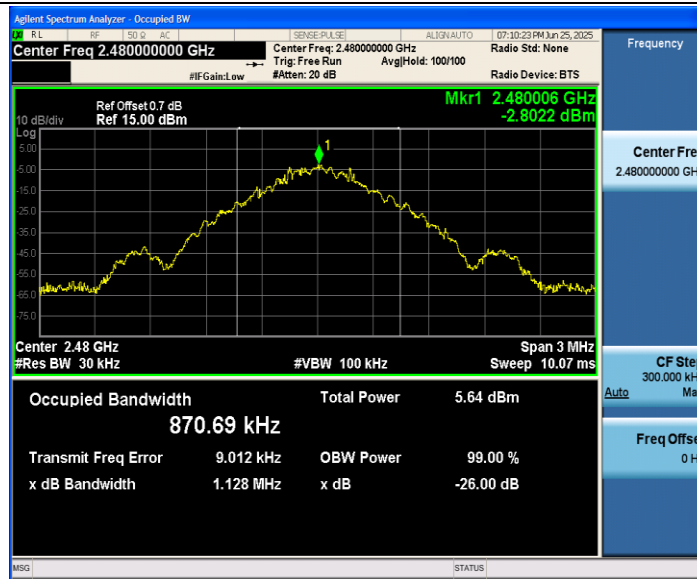
Appendix B: Occupied Channel Bandwidth

Test Result

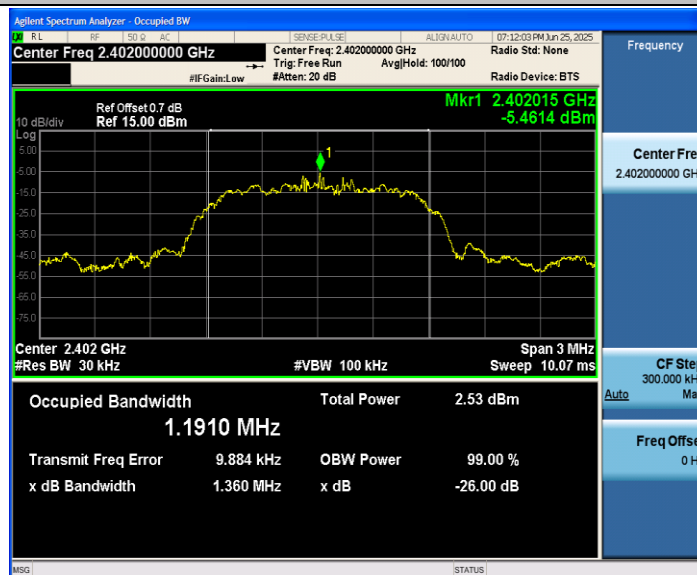
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86468	2401.5733	2402.4380	---	---
		2441	0.87128	2440.5710	2441.4423	---	---
		2480	0.87069	2479.5737	2480.4444	---	---
2DH5	Ant1	2402	1.1910	2401.4144	2402.6054	---	---
		2441	1.1946	2440.4132	2441.6078	---	---
		2480	1.1859	2479.4172	2480.6031	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

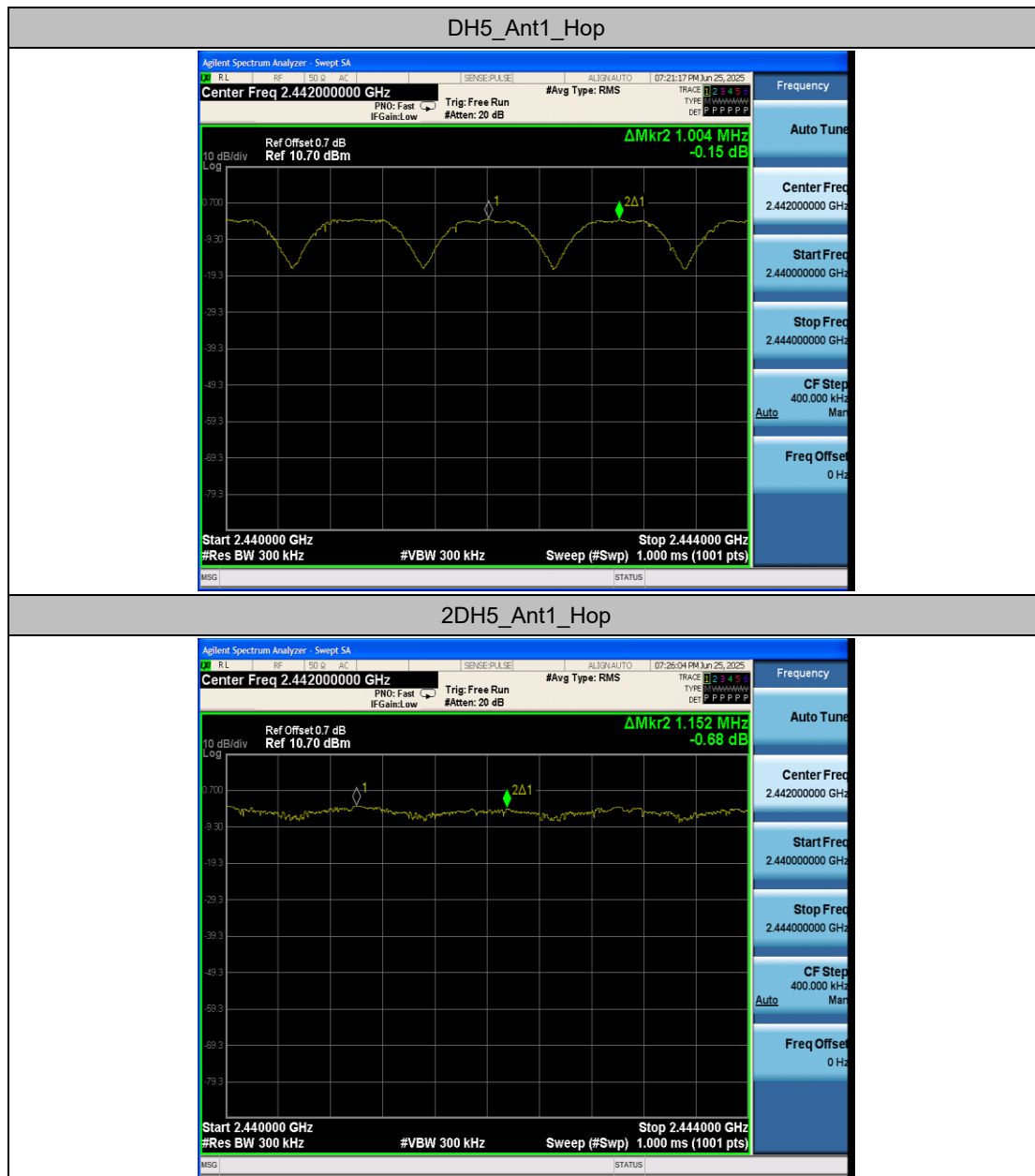
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.03	≤20.97	PASS
		2441	-0.19	≤20.97	PASS
		2480	-0.29	≤20.97	PASS
2DH5	Ant1	2402	-0.82	≤20.97	PASS
		2441	-1.01	≤20.97	PASS
		2480	-1.11	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.957	PASS
2DH5	Ant1	Hop	1.152	≥ 0.878	PASS

Test Graphs

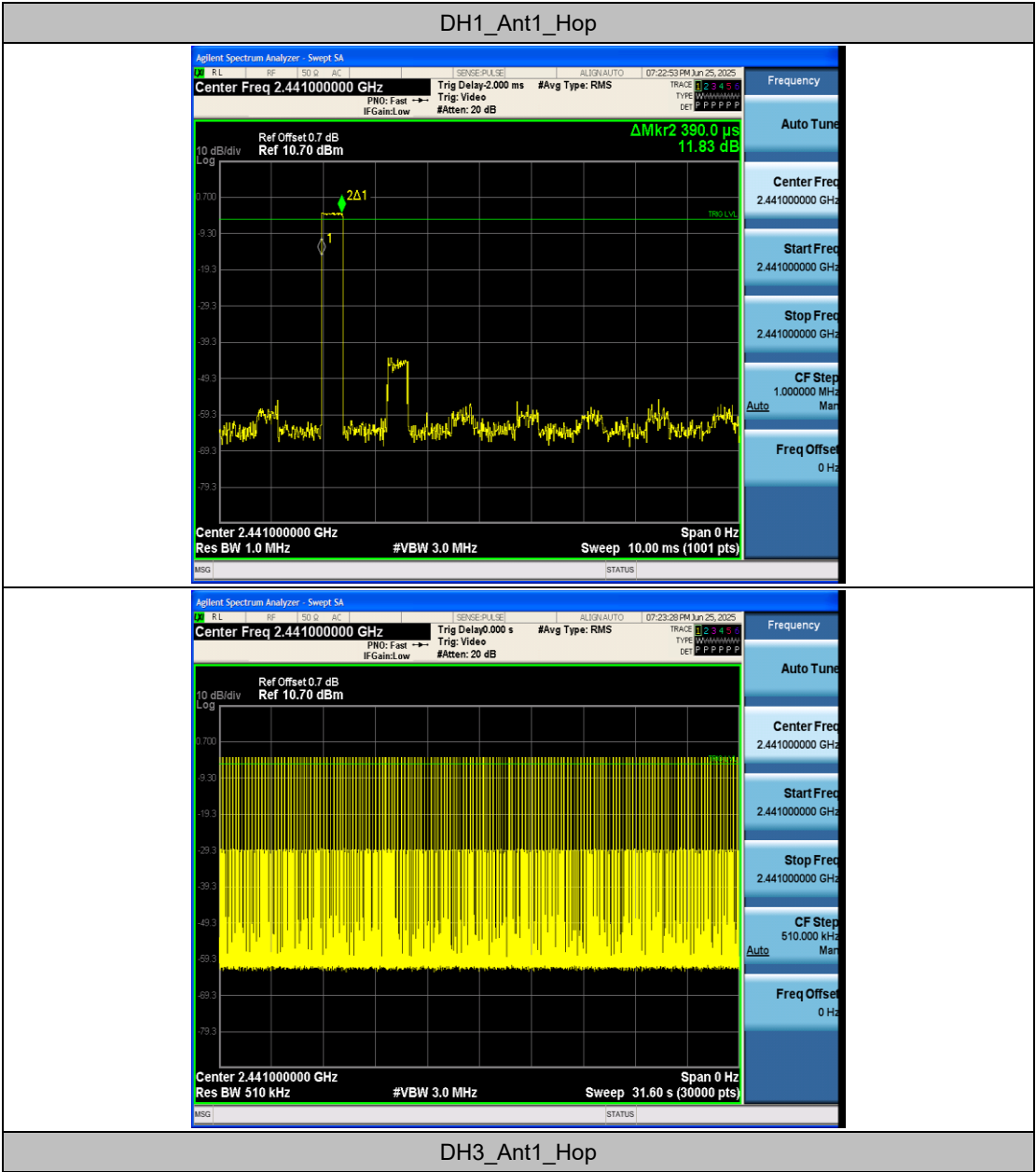


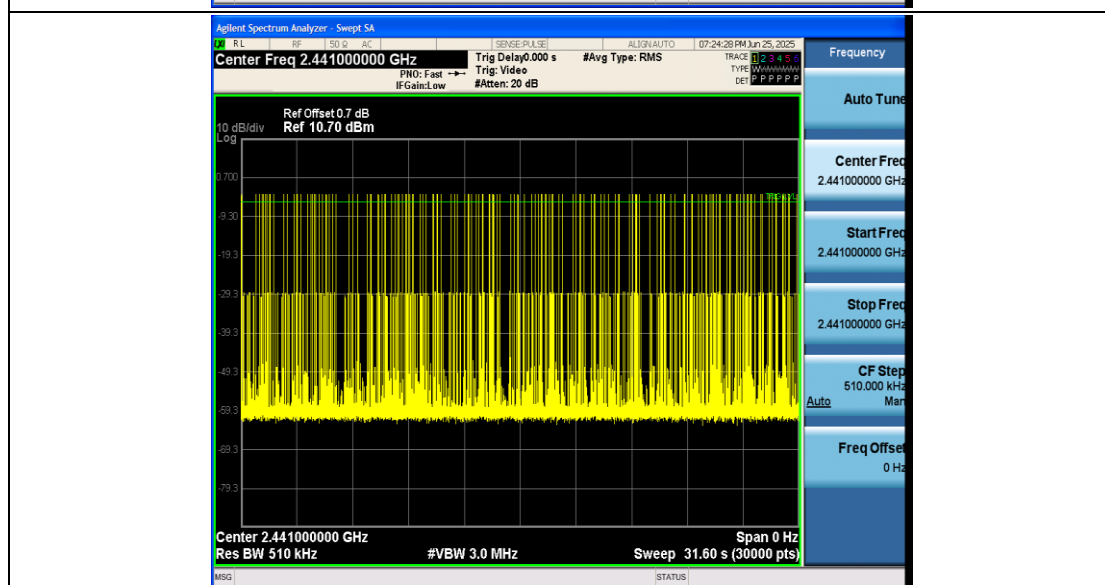
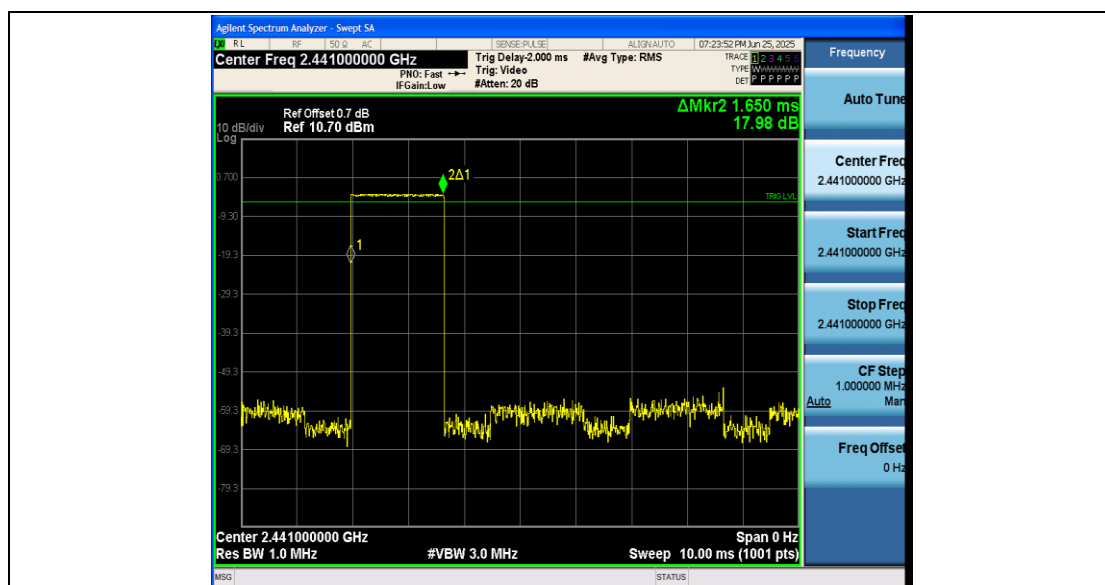
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
DH3	Ant1	Hop	1.650	155	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.890	101	0.292	≤0.4	PASS
2DH1	Ant1	Hop	0.400	317	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	158	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.900	109	0.316	≤0.4	PASS

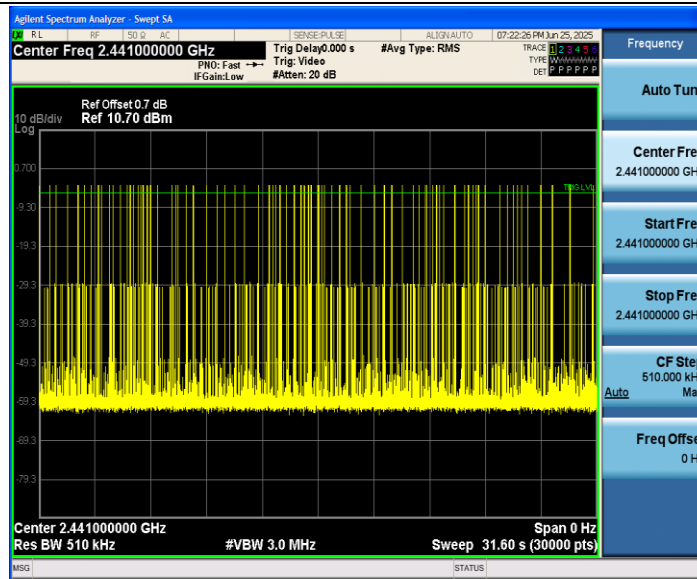
Test Graphs



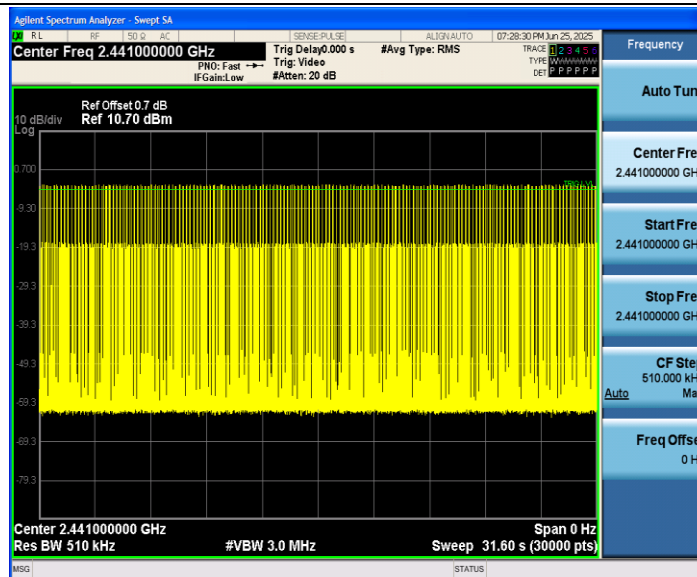
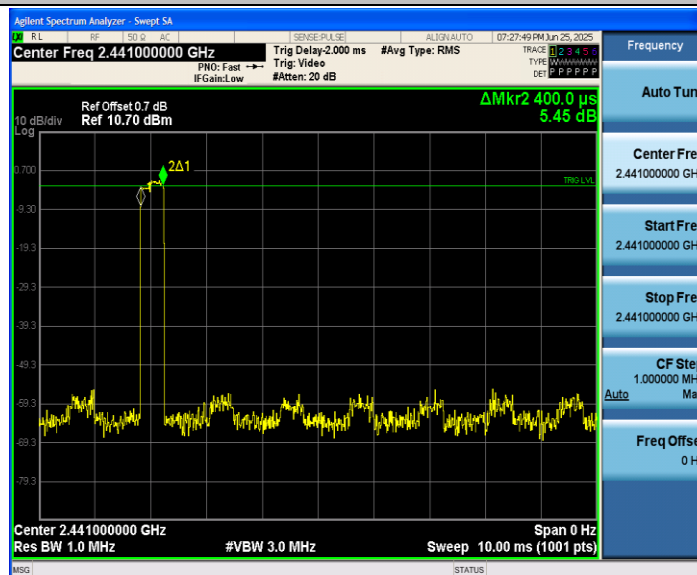


DH5_Ant1_Hop

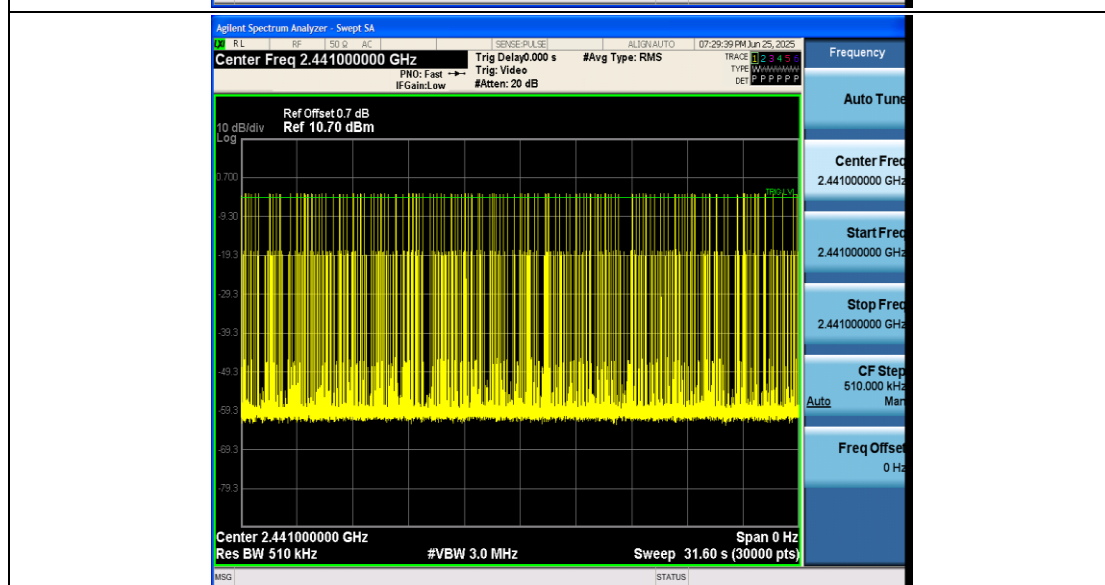




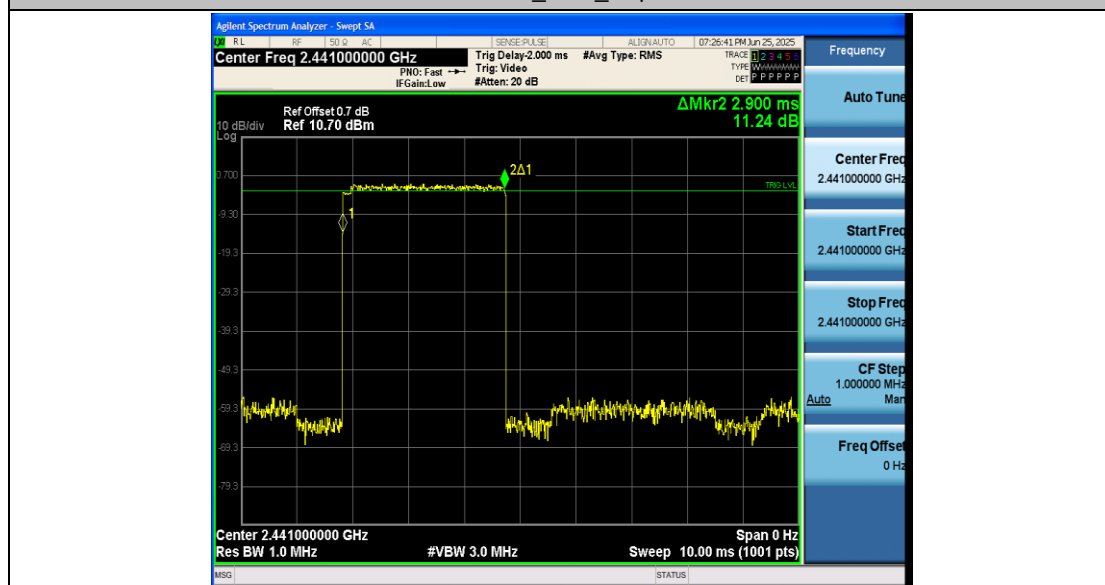
2DH1_Ant1_Hop

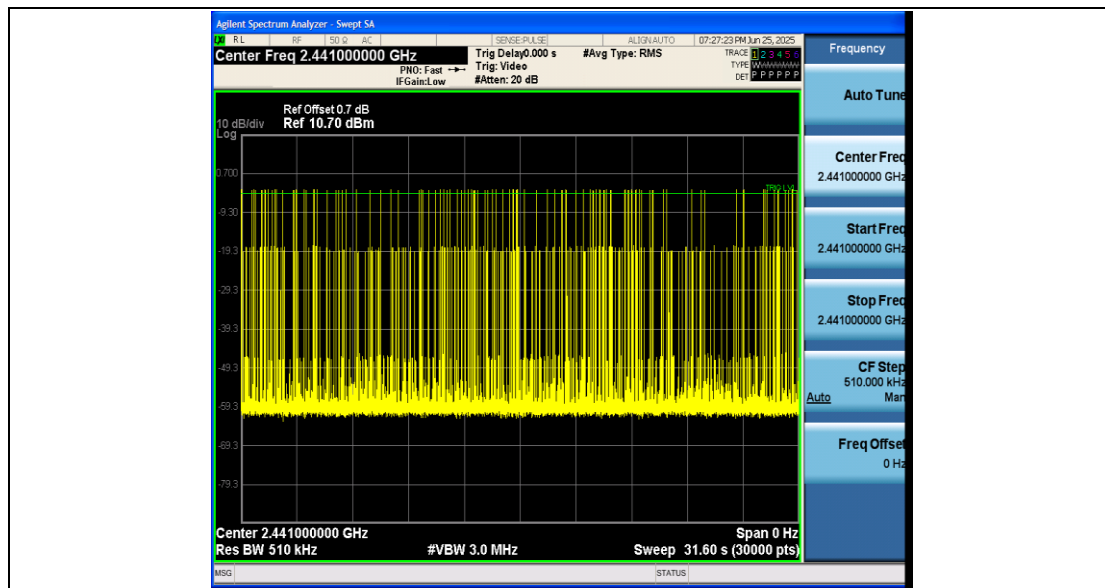


2DH3_Ant1_Hop



2DH5_Ant1_Hop





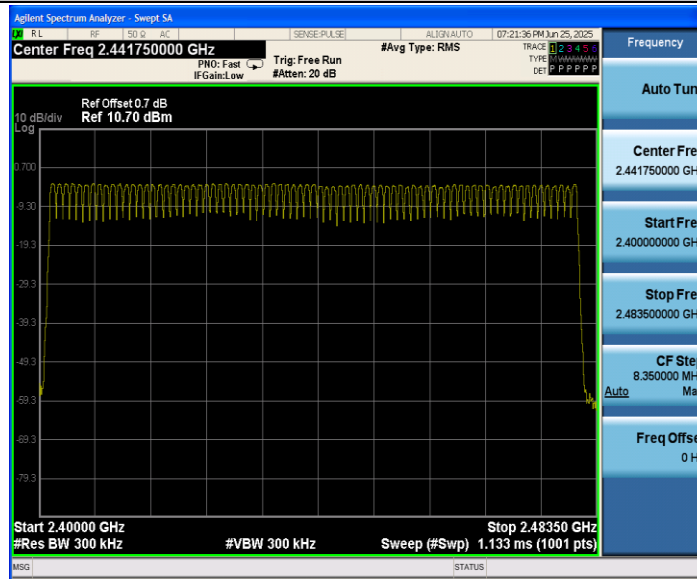
Appendix F: Number of hopping channels

Test Result

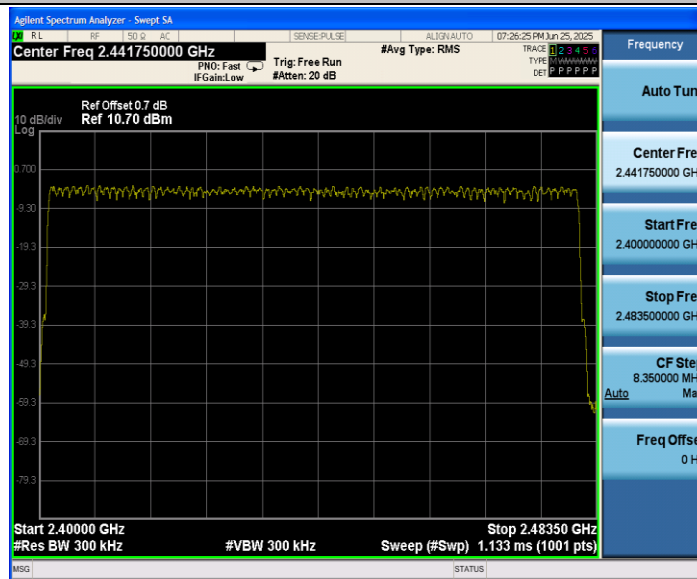
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



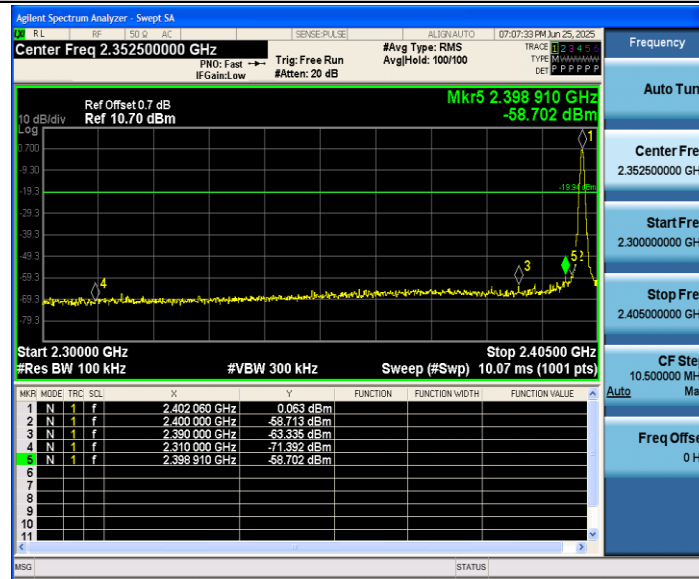
Appendix G: Band edge measurements

Test Result

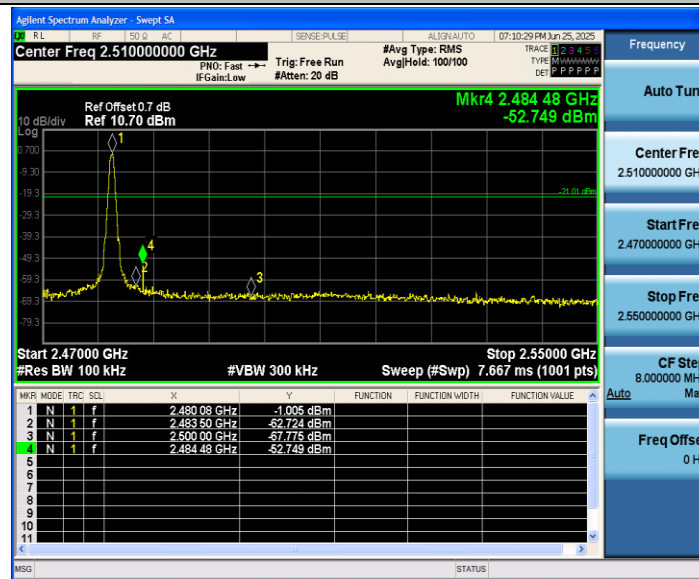
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.06	-58.7	≤-19.94	PASS
		High	2480	-1.01	-52.75	≤-21.01	PASS
		Low	Hop_2402	-4.41	-60.58	≤-24.41	PASS
		High	Hop_2480	-4.74	-63.54	≤-24.74	PASS
2DH5	Ant1	Low	2402	-3.44	-59.19	≤-23.44	PASS
		High	2480	-3.96	-63.14	≤-23.96	PASS
		Low	Hop_2402	-4.85	-56.29	≤-24.85	PASS
		High	Hop_2480	-5.38	-59.49	≤-25.38	PASS

Test Graphs

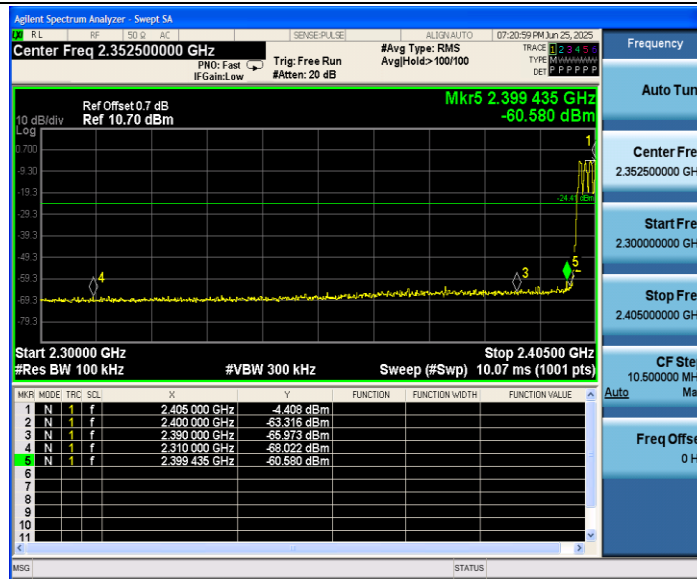
DH5_Ant1_Low_2402



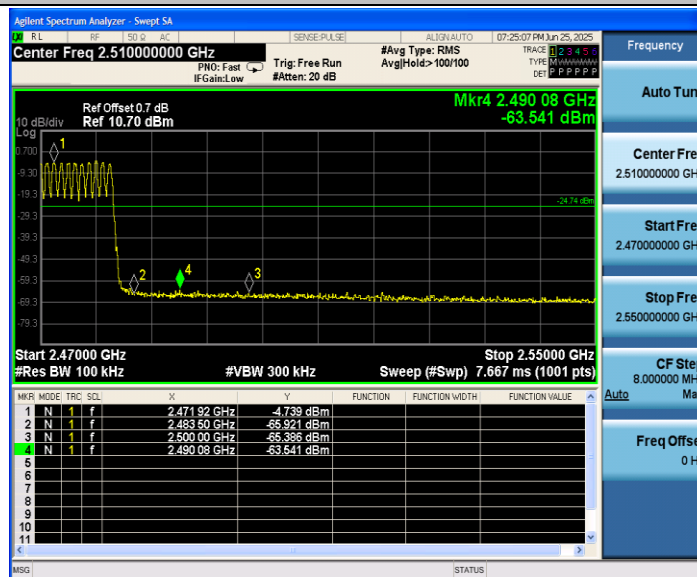
DH5_Ant1_High_2480



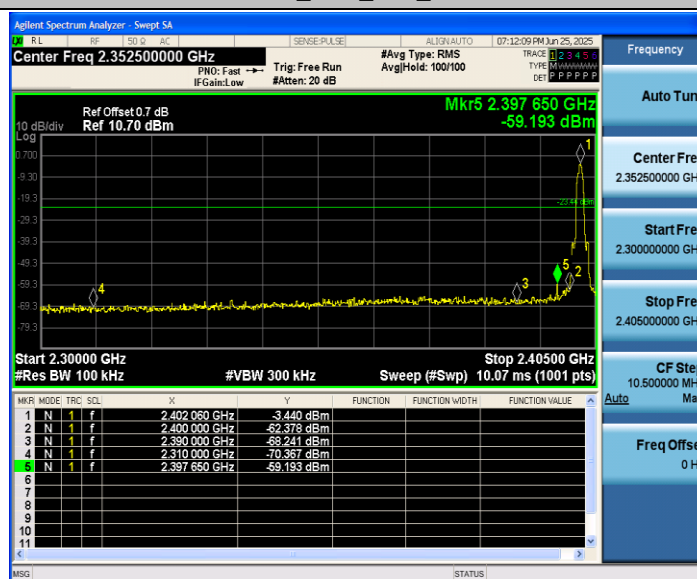
DH5_Ant1_Low_Hop_2402



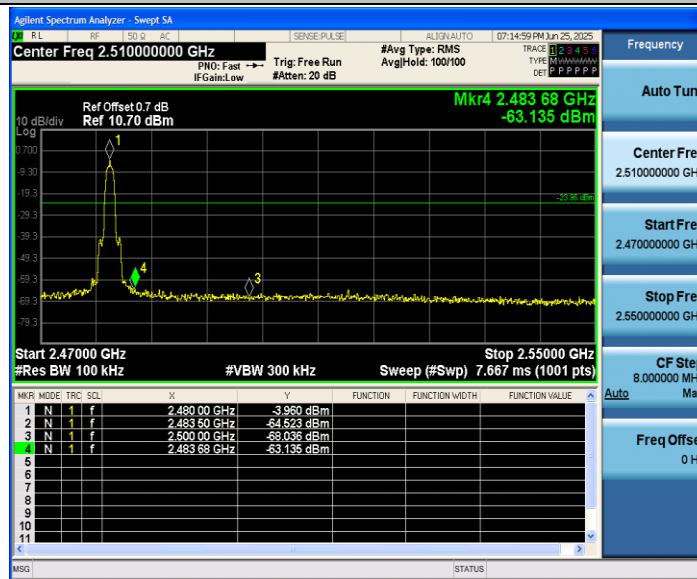
DH5_Ant1_High_Hop_2480



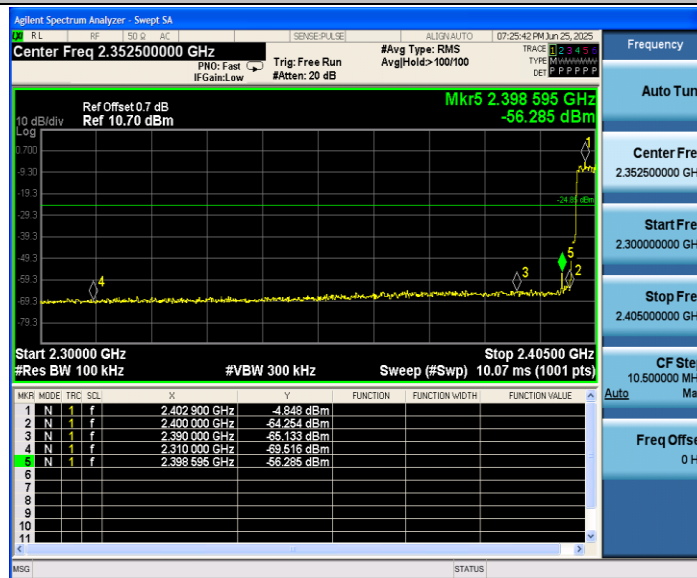
2DH5_Ant1_Low_2402



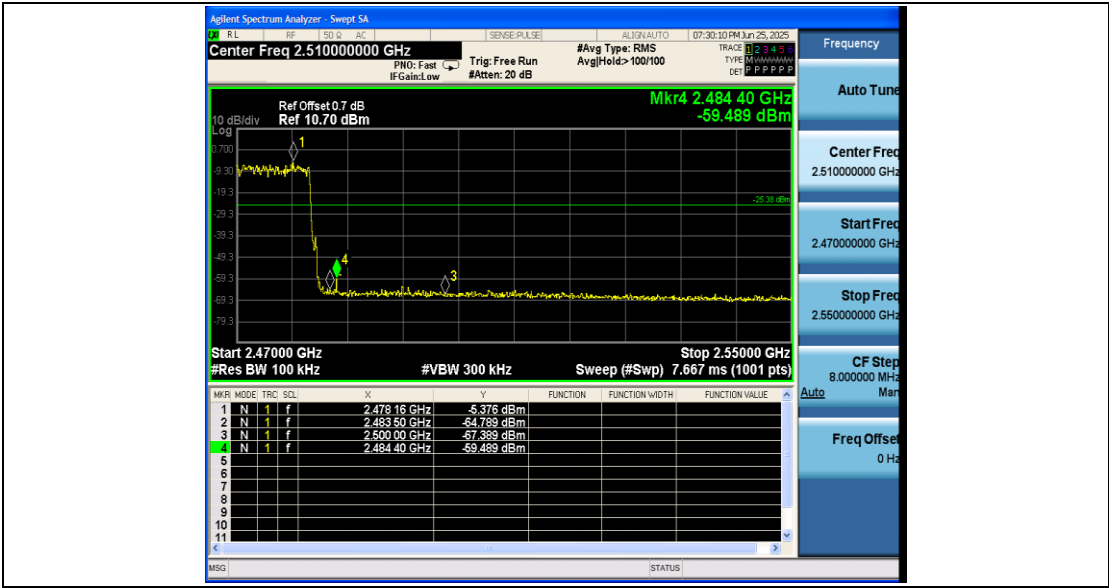
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

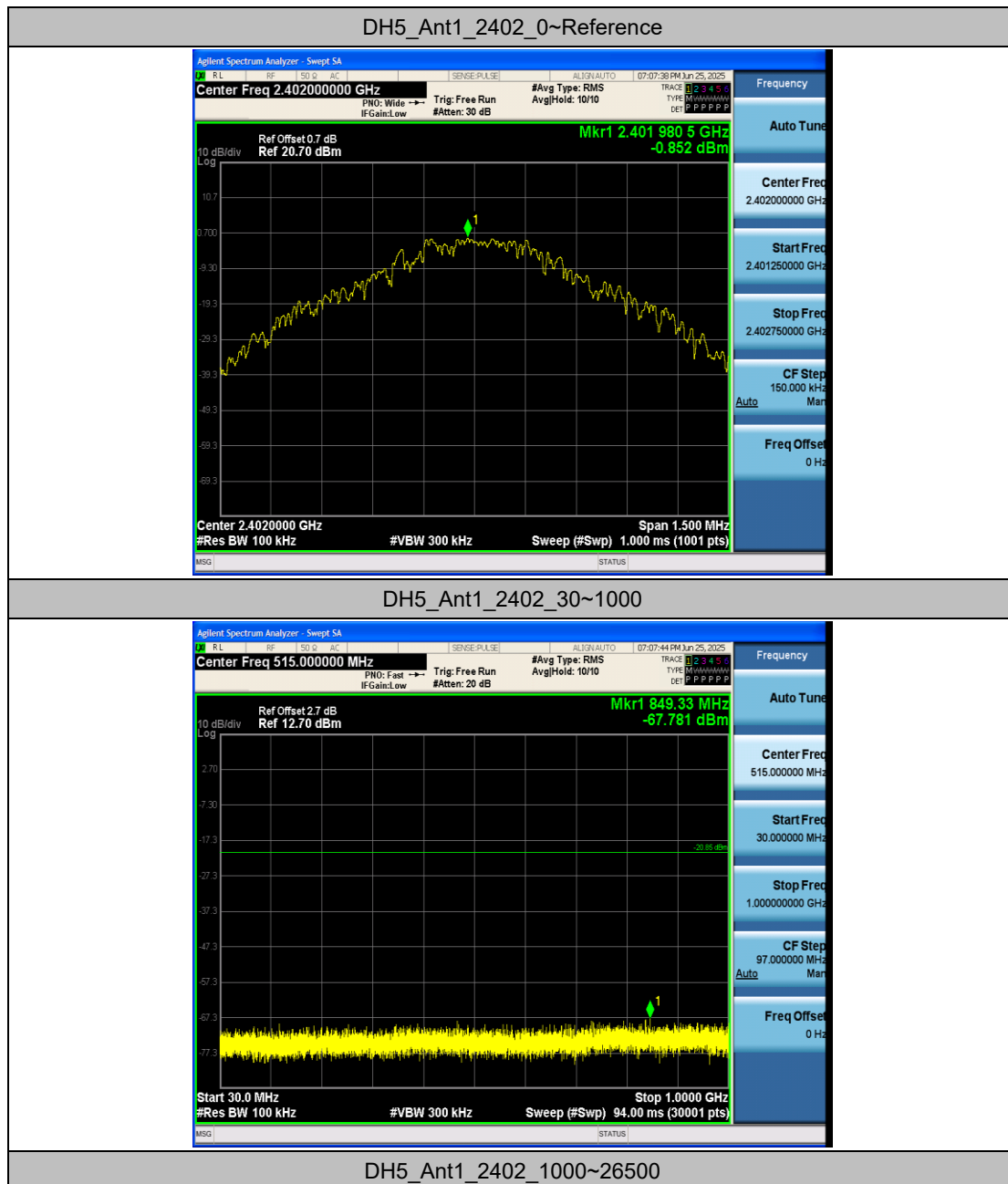


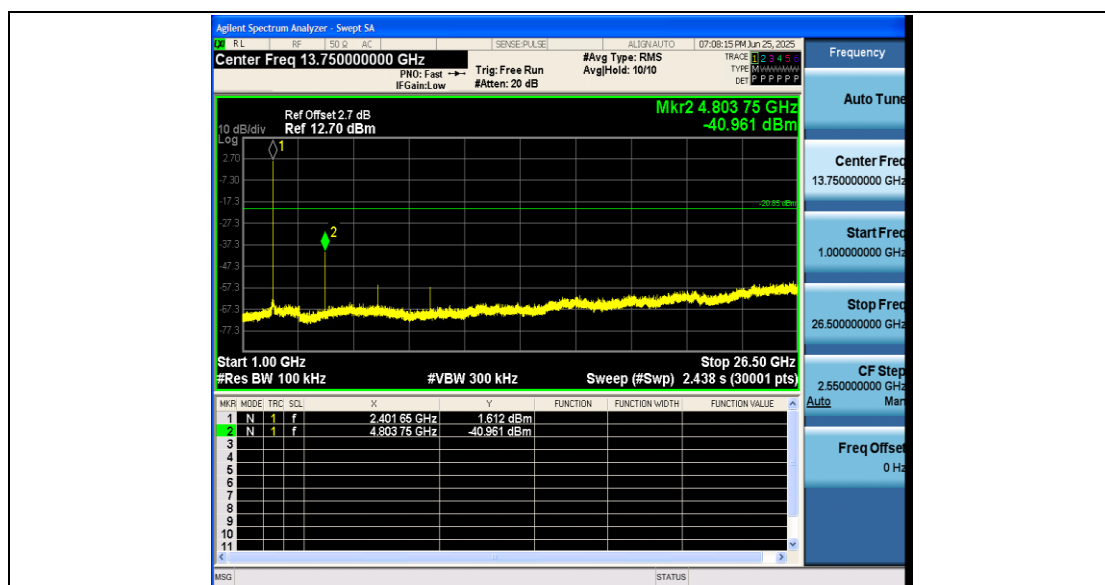
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-67.78	≤-20.85	PASS
			1000~26500	-0.85	-40.96	≤-20.85	PASS
		2441	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-67.24	≤-21.21	PASS
			1000~26500	-1.21	-41.65	≤-21.21	PASS
		2480	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-67.89	≤-21.32	PASS
			1000~26500	-1.32	-43.95	≤-21.32	PASS
2DH5	Ant1	2402	Reference	-6.43	-6.43	---	PASS
			30~1000	-6.43	-67.18	≤-26.43	PASS
			1000~26500	-6.43	-50.21	≤-26.43	PASS
		2441	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-67.26	≤-25.47	PASS
			1000~26500	-5.47	-48.02	≤-25.47	PASS
		2480	Reference	-3.85	-3.85	---	PASS
			30~1000	-3.85	-67.87	≤-23.85	PASS
			1000~26500	-3.85	-48.47	≤-23.85	PASS

Test Graphs

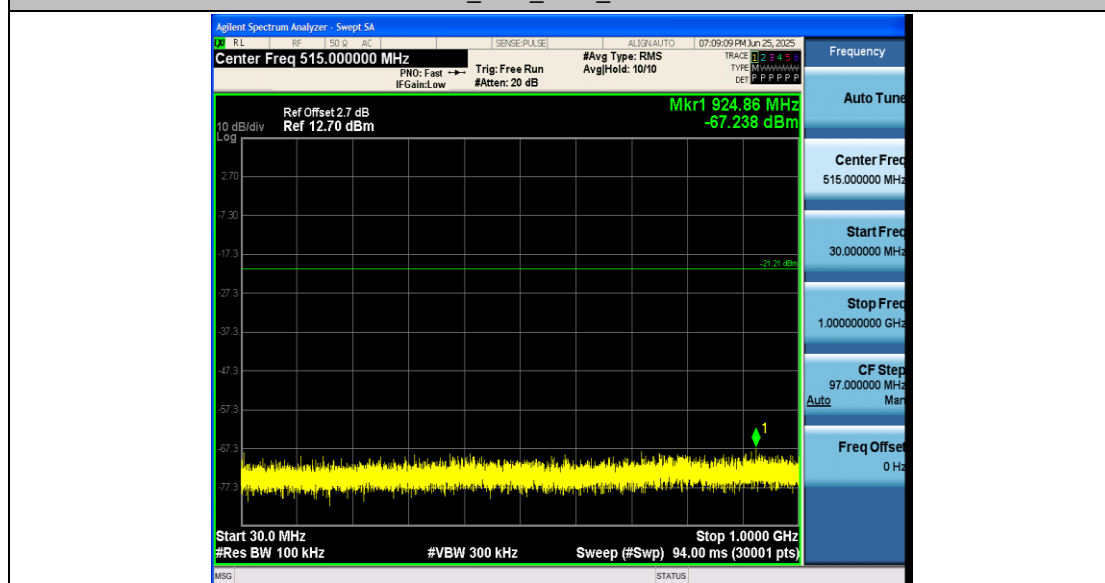




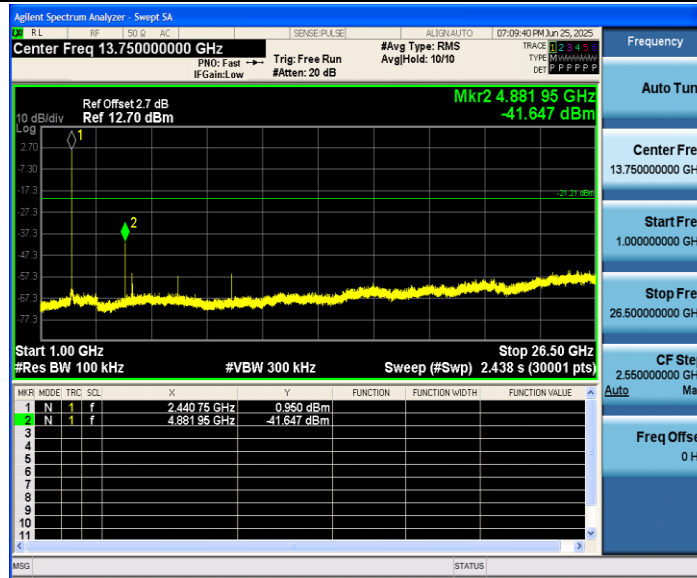
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



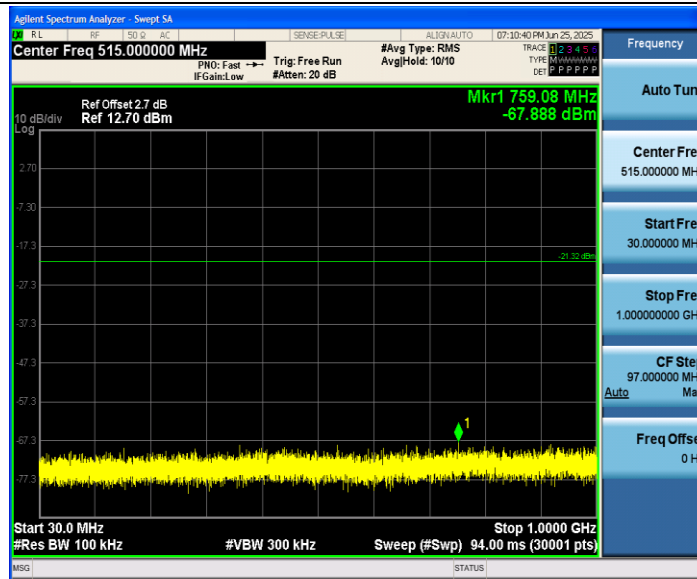
DH5_Ant1_2441_1000~26500



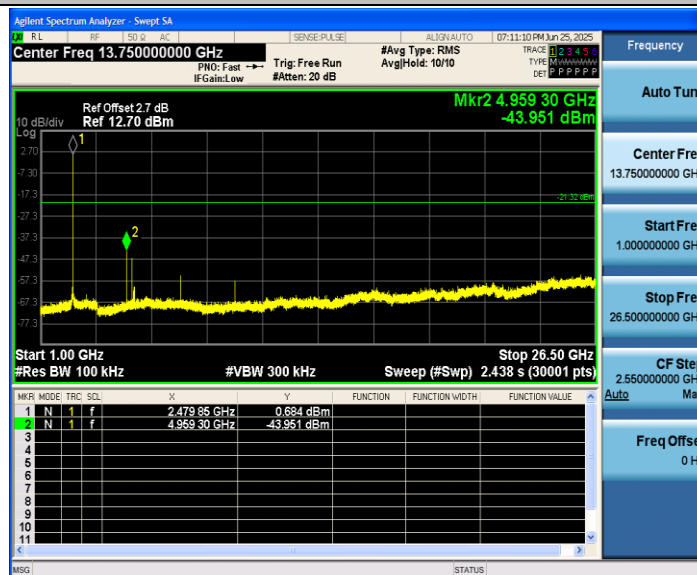
DH5_Ant1_2480_0~Reference



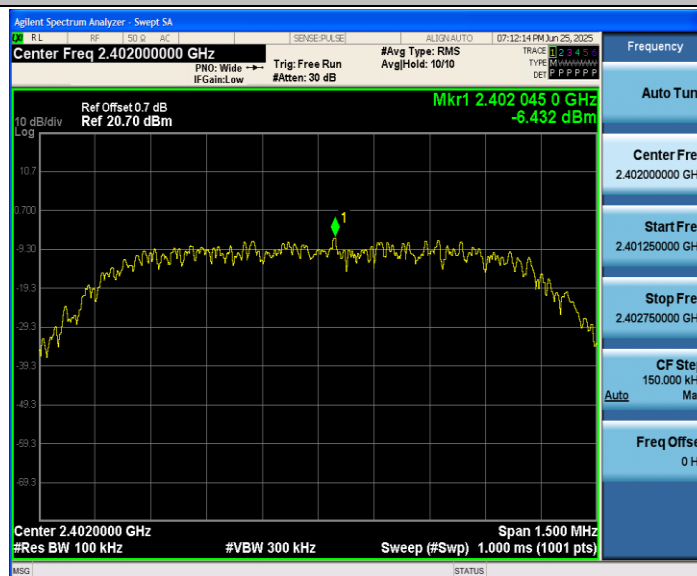
DH5_Ant1_2480_30~1000



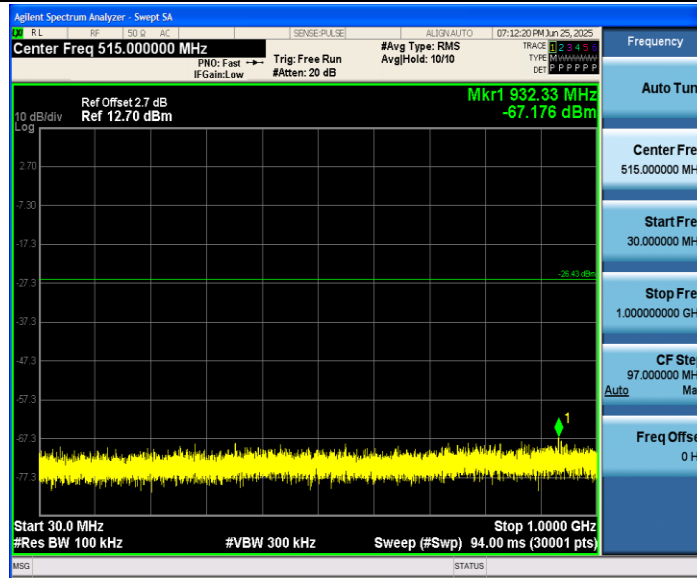
DH5_Ant1_2480_1000~26500



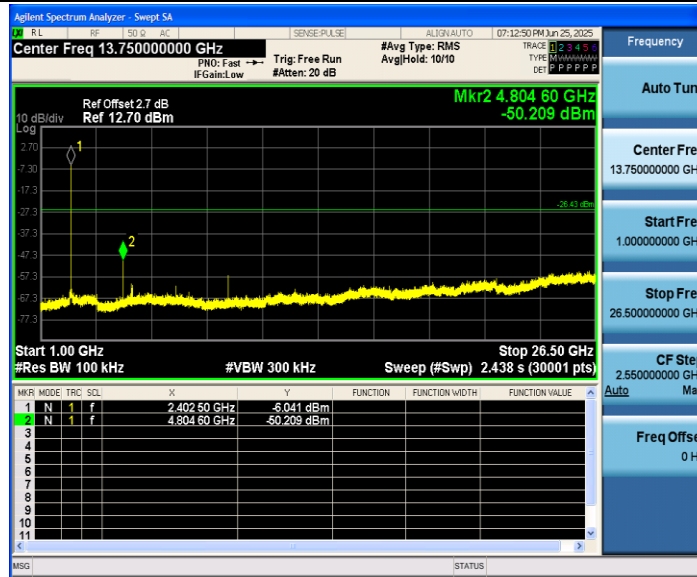
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



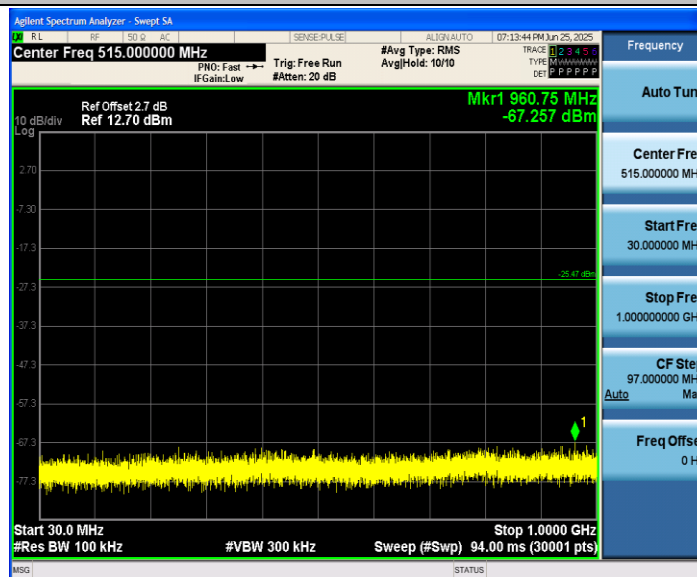
2DH5_Ant1_2402_1000~26500



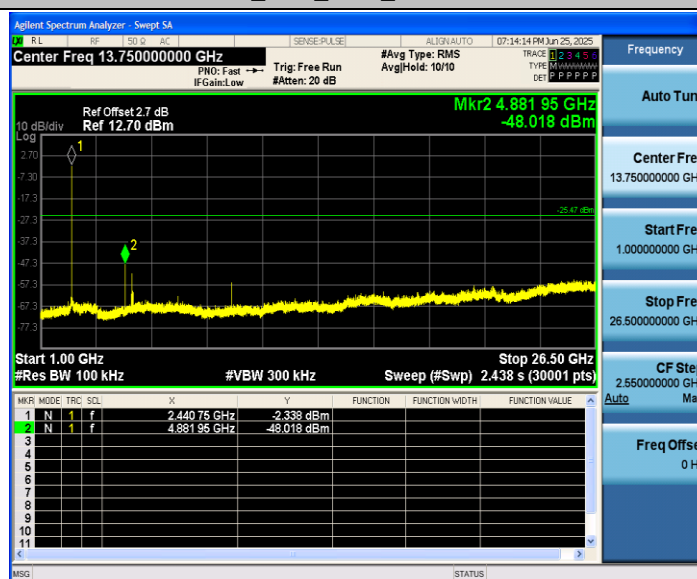
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



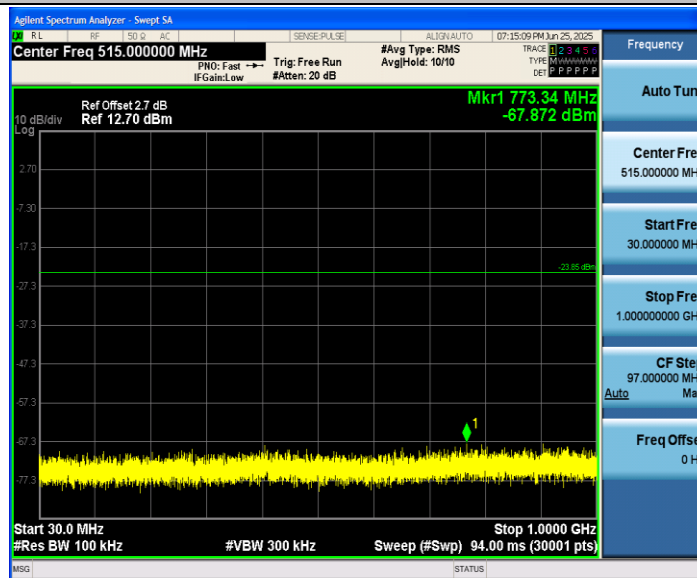
2DH5_Ant1_2441_1000~26500



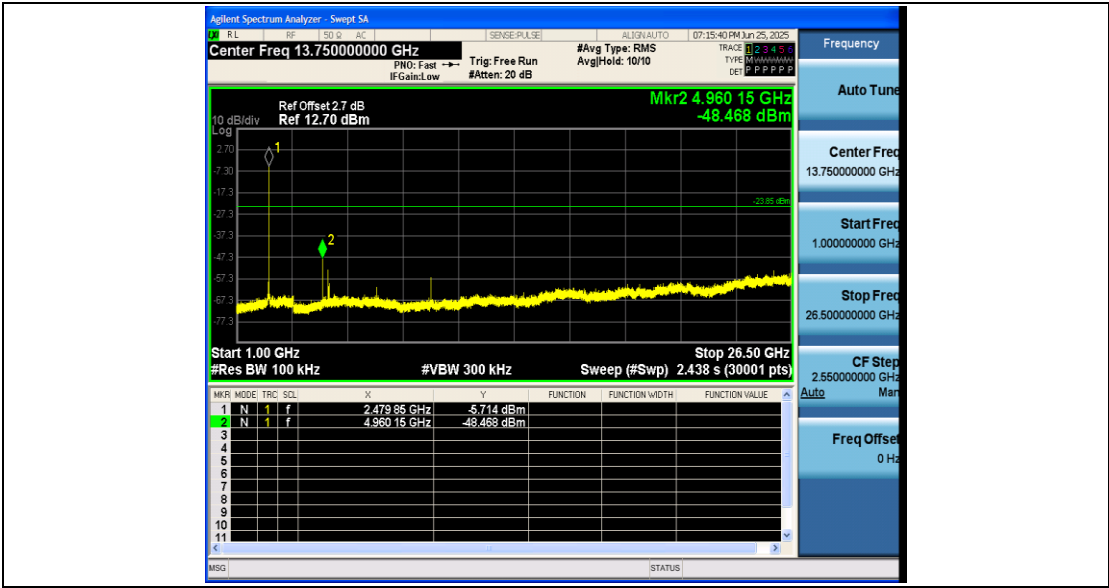
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

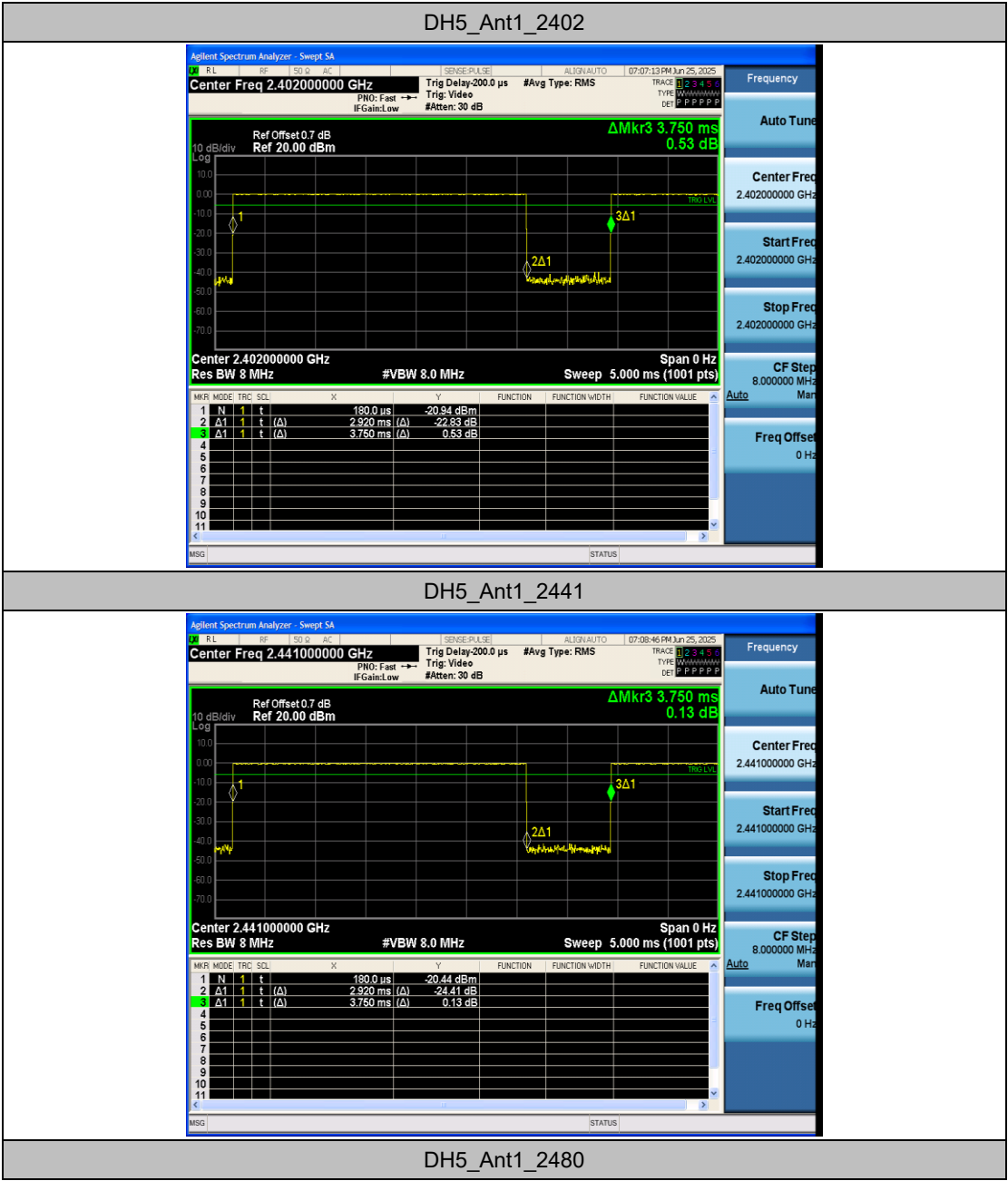


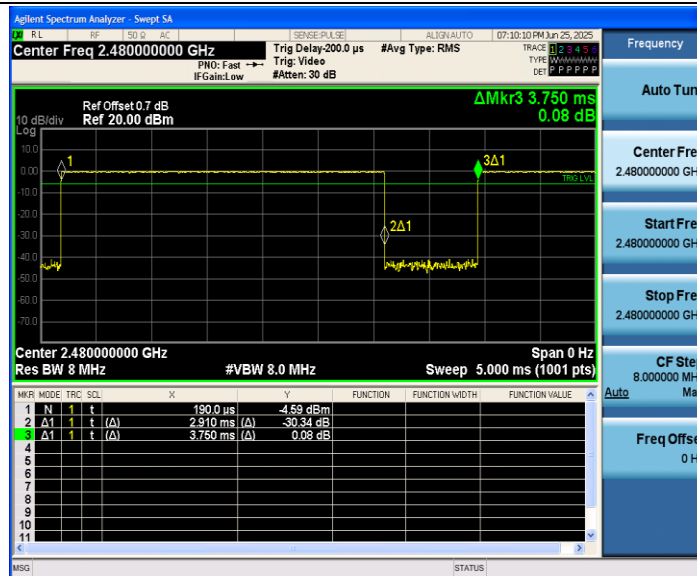
Appendix I: Duty Cycle

Test Result

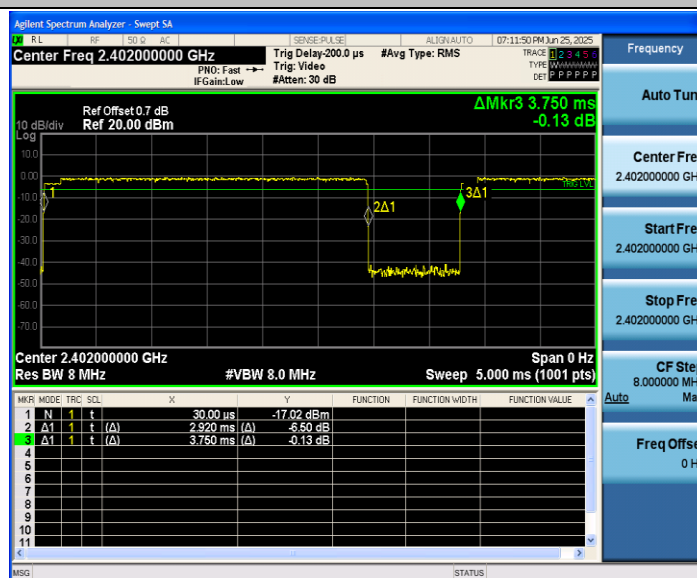
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10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

Test Graphs

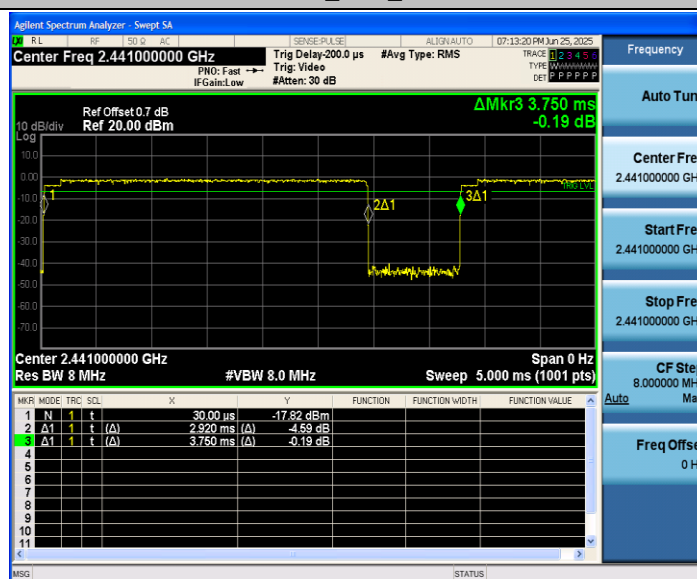




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

