

FCC Appendix RF Test Data for BT

FCC ID : 2BXMU-EK1171

Company : NINGBO ELINK IMP&EXP CO.,LTD

EUT : Bluetooth speaker

Model Number : EK1171

Report No. : CTA26072201301

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	0.960	2401.544	2402.504	---	---
		2441	0.951	2440.550	2441.501	---	---
		2480	0.960	2479.544	2480.504	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.284	2479.379	2480.663	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

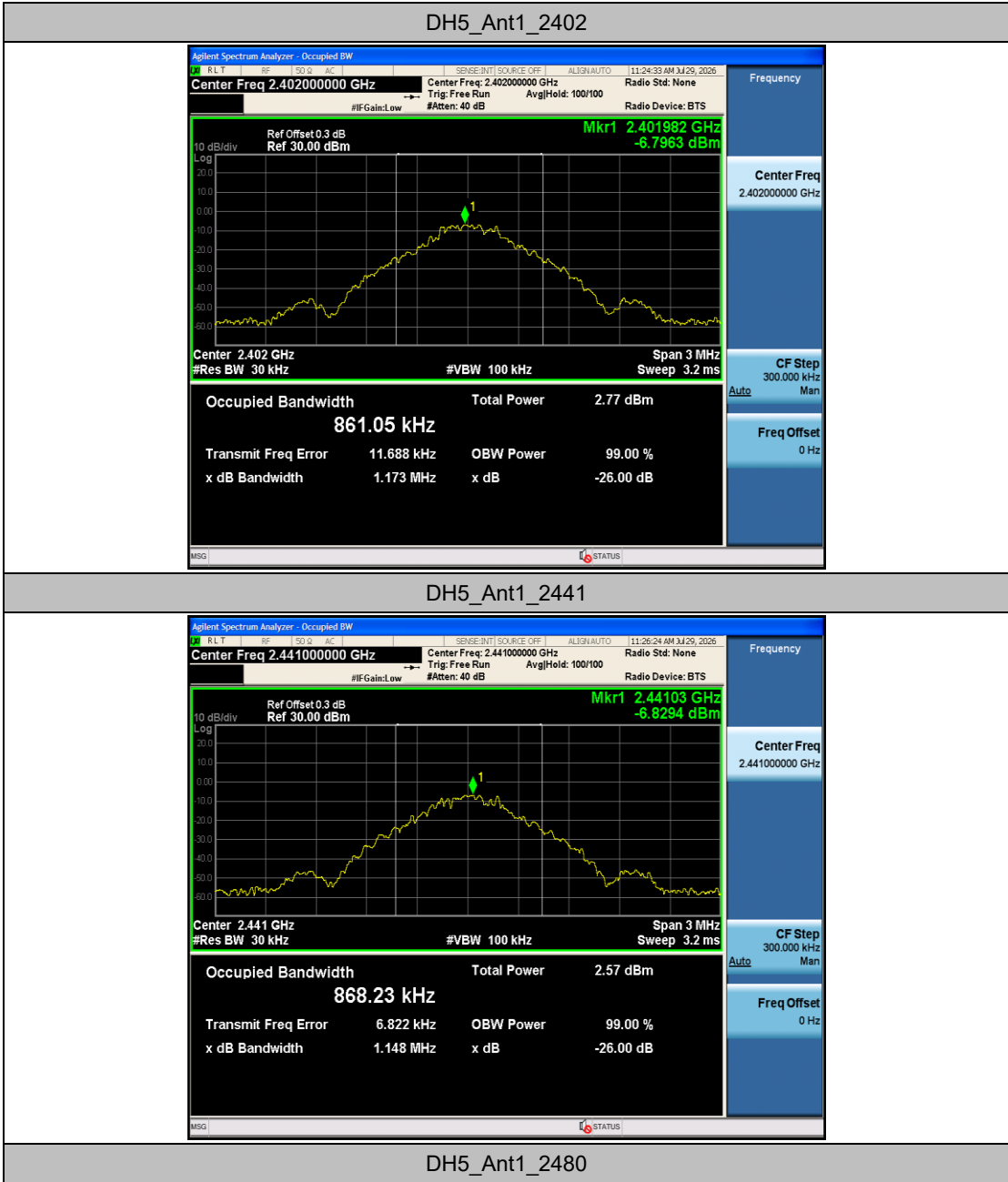


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86105	2401.5812	2402.4422	---	---
		2441	0.86823	2440.5727	2441.4409	---	---
		2480	0.86743	2479.5769	2480.4443	---	---
2DH5	Ant1	2402	1.1937	2401.4142	2402.6079	---	---
		2441	1.1927	2440.4142	2441.6069	---	---
		2480	1.1793	2479.4200	2480.5993	---	---

Test Graphs





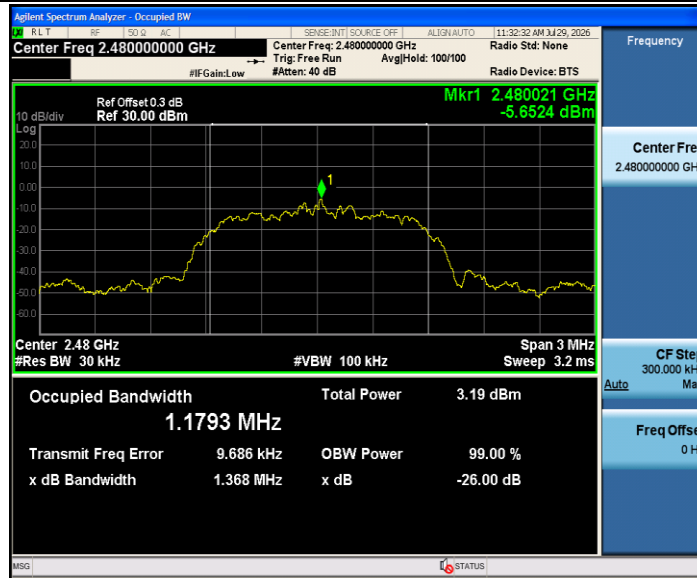
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

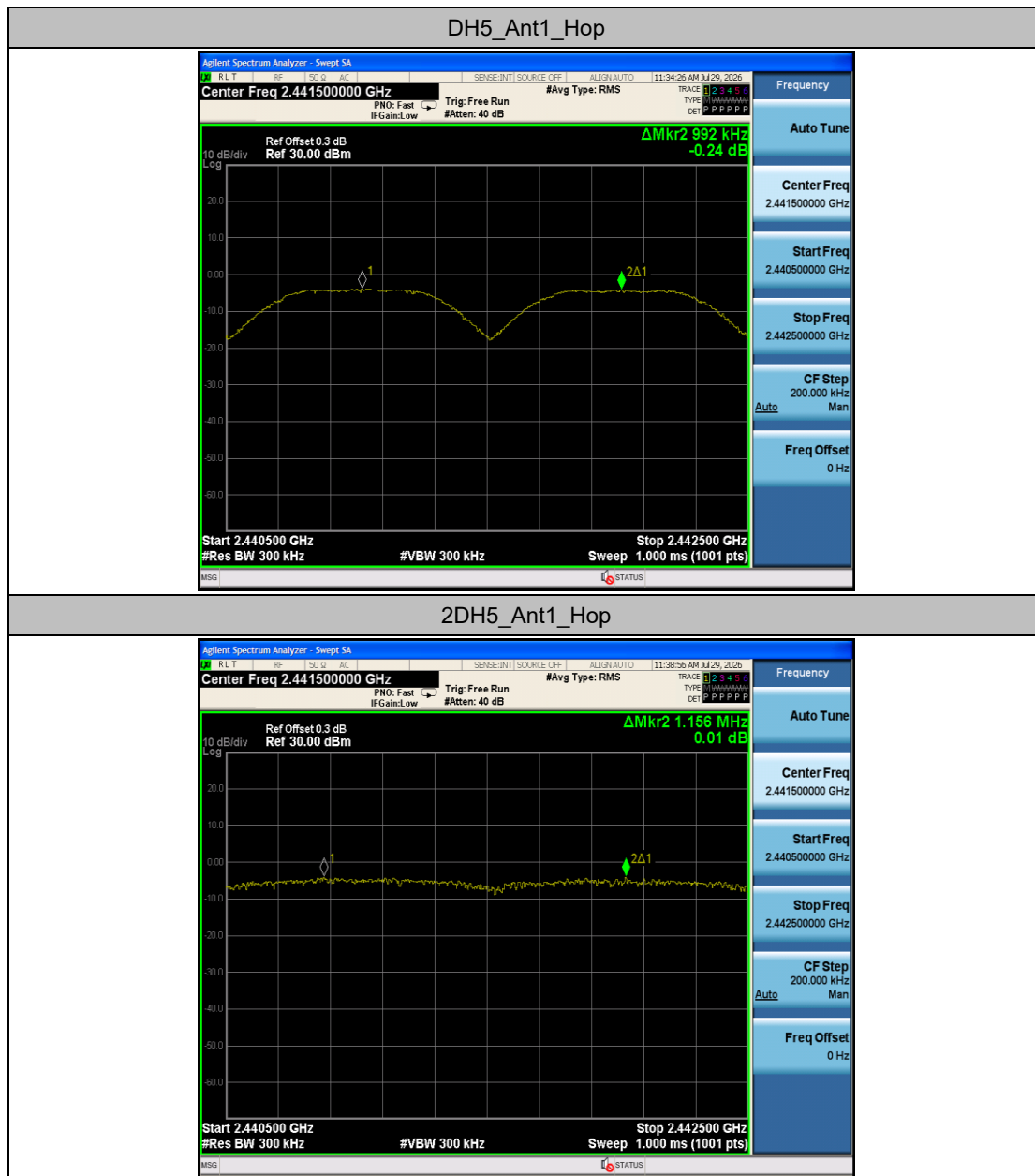
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.50	≤20.97	PASS
		2441	-3.62	≤20.97	PASS
		2480	-3.94	≤20.97	PASS
2DH5	Ant1	2402	-0.82	≤20.97	PASS
		2441	-1.02	≤20.97	PASS
		2480	-1.30	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.960	PASS
2DH5	Ant1	Hop	1.156	≥ 0.856	PASS

Test Graphs

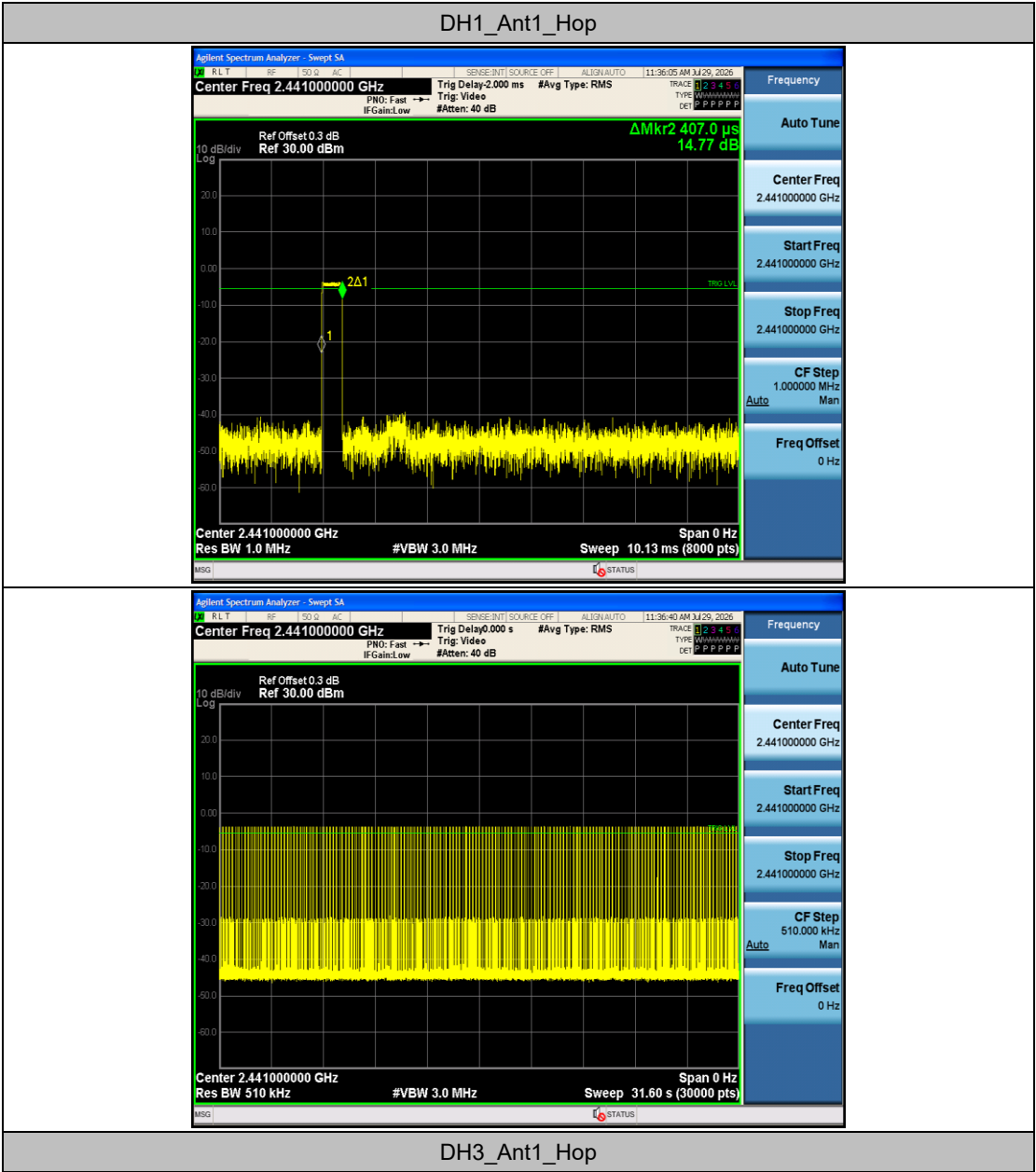


Appendix E: Time of occupancy

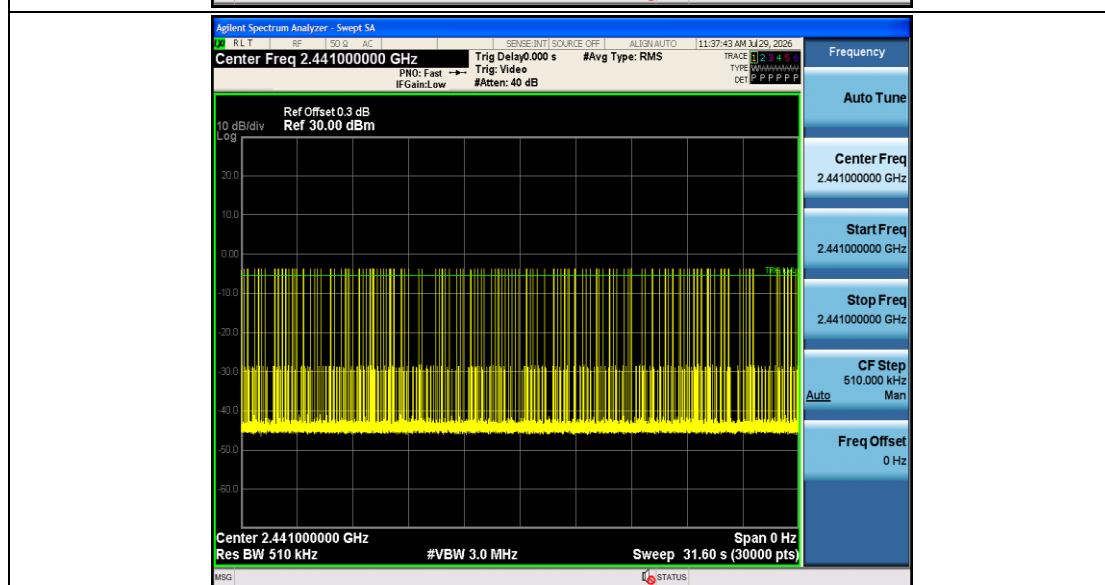
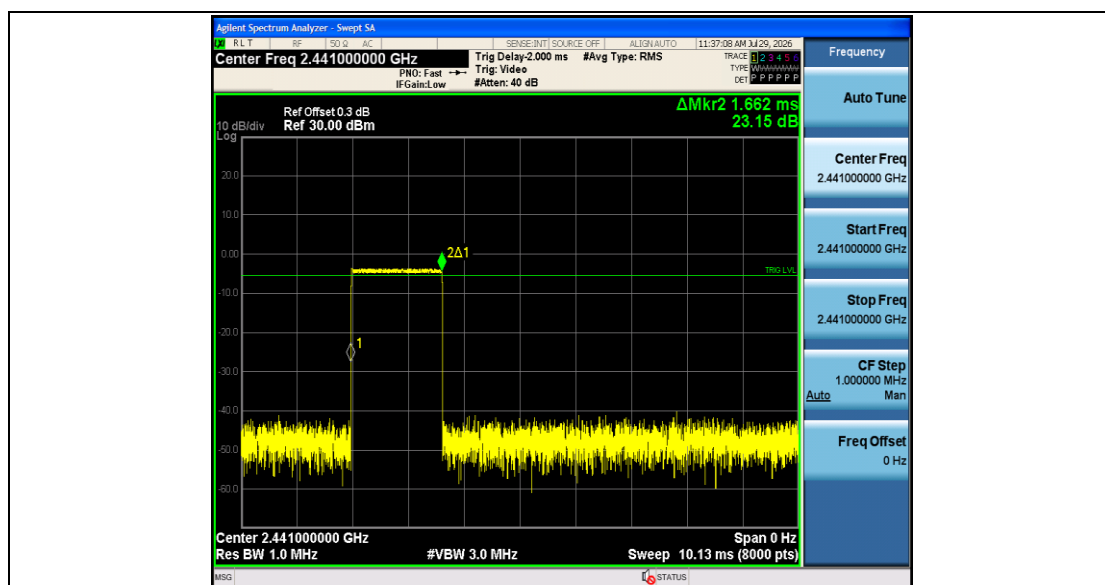
Test Result

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	1.662	164	0.273	≤0.4	PASS
DH5	Ant1	Hop	2.910	102	0.297	≤0.4	PASS
2DH1	Ant1	Hop	0.415	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.668	167	0.279	≤0.4	PASS
2DH5	Ant1	Hop	2.915	99	0.289	≤0.4	PASS

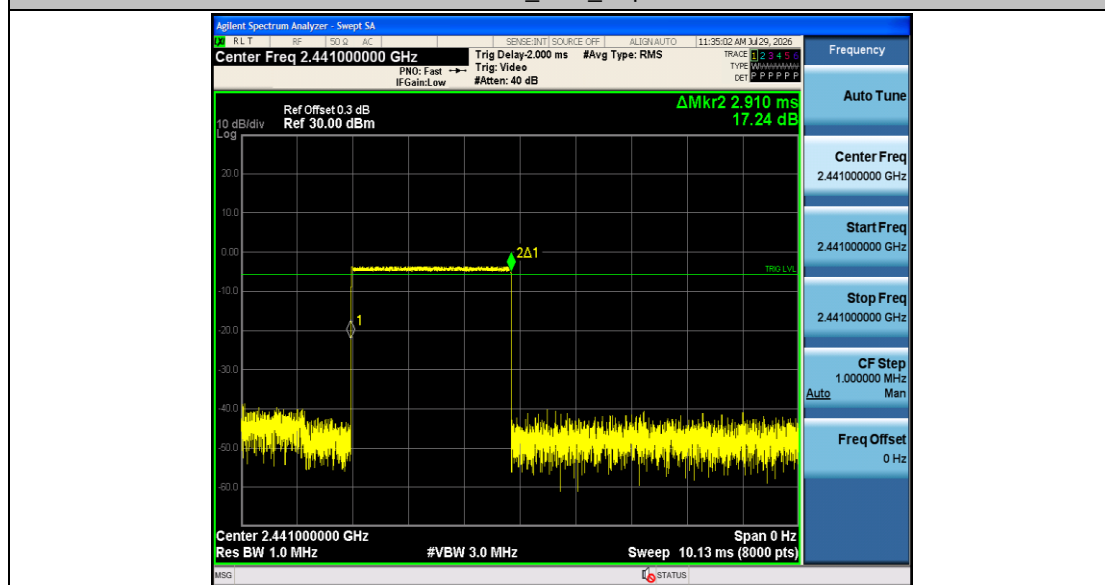
Test Graphs

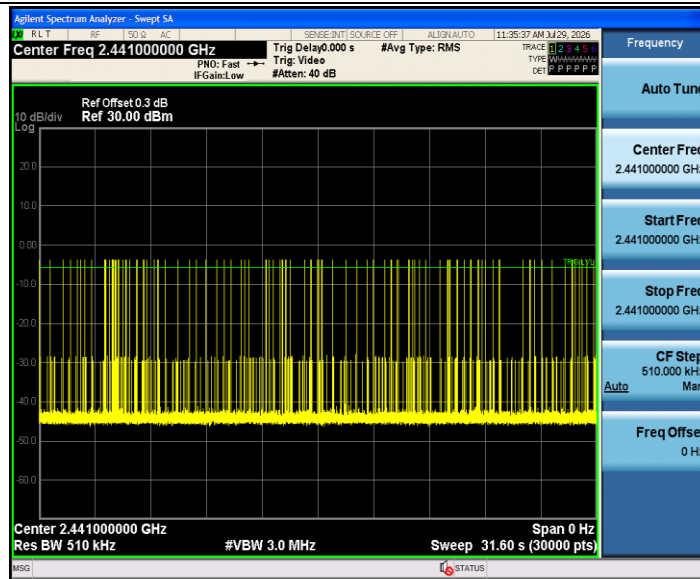


DH3_Ant1_Hop

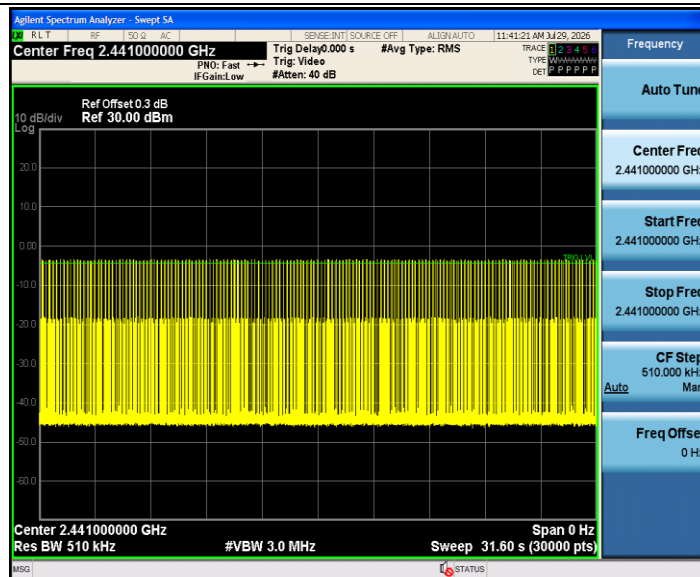
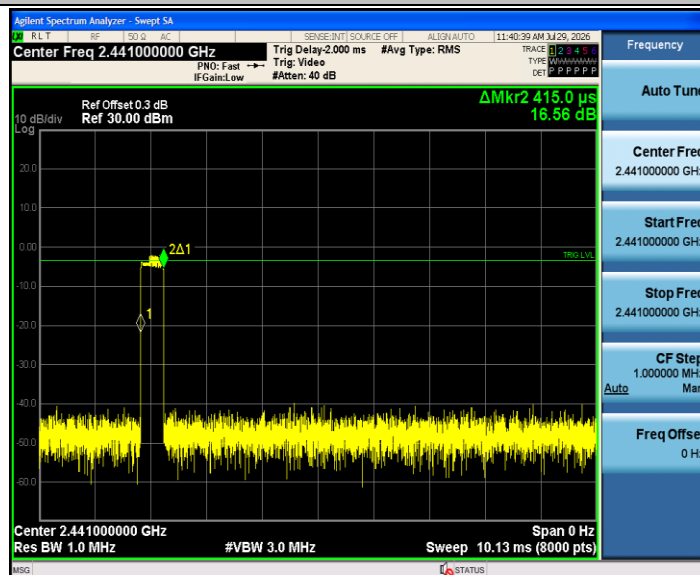


DH5_Ant1_Hop

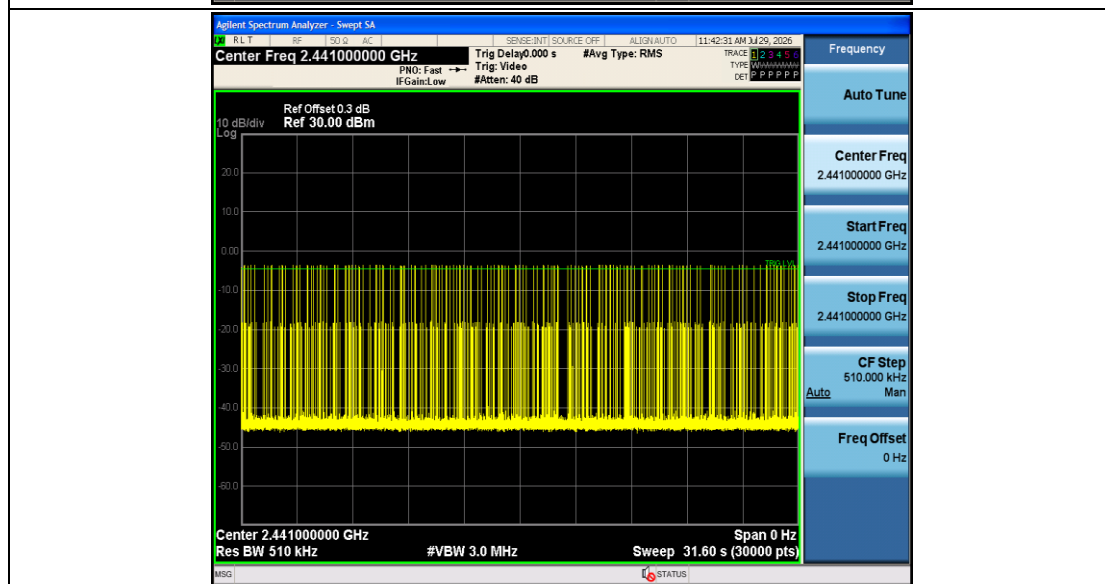
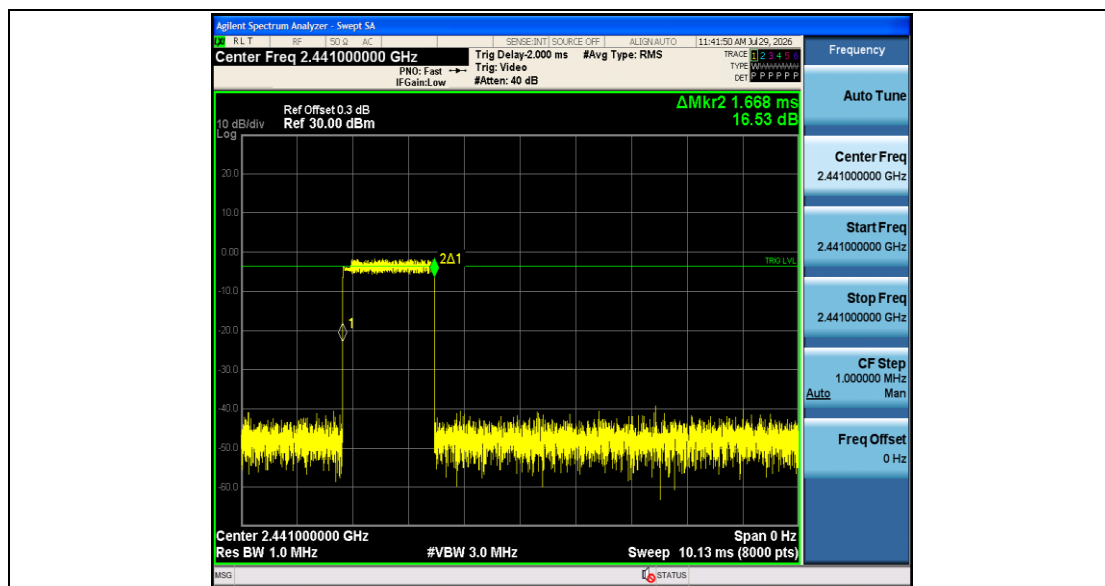




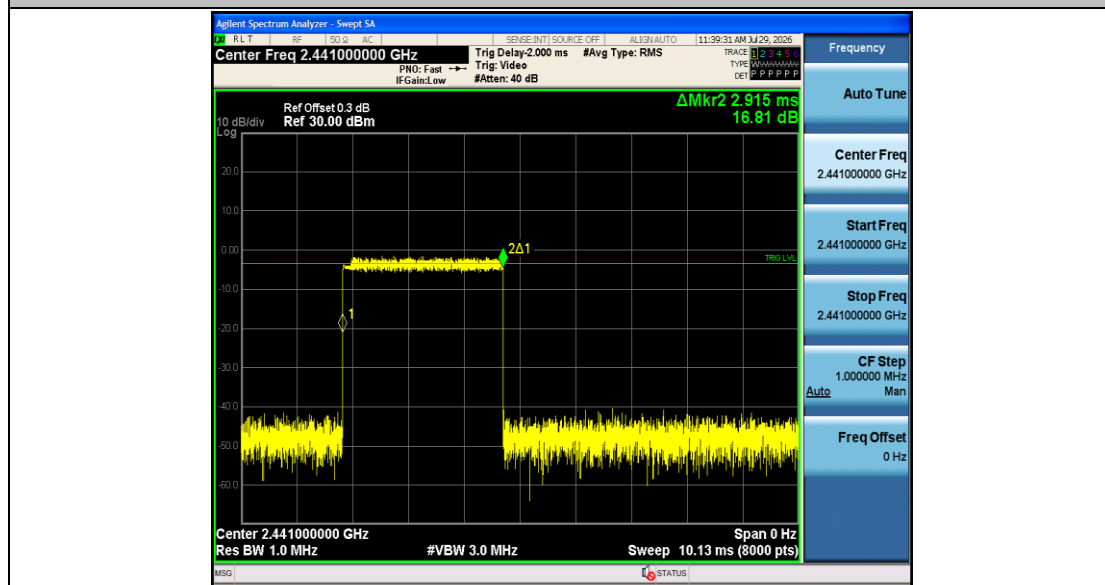
2DH1_Ant1_Hop

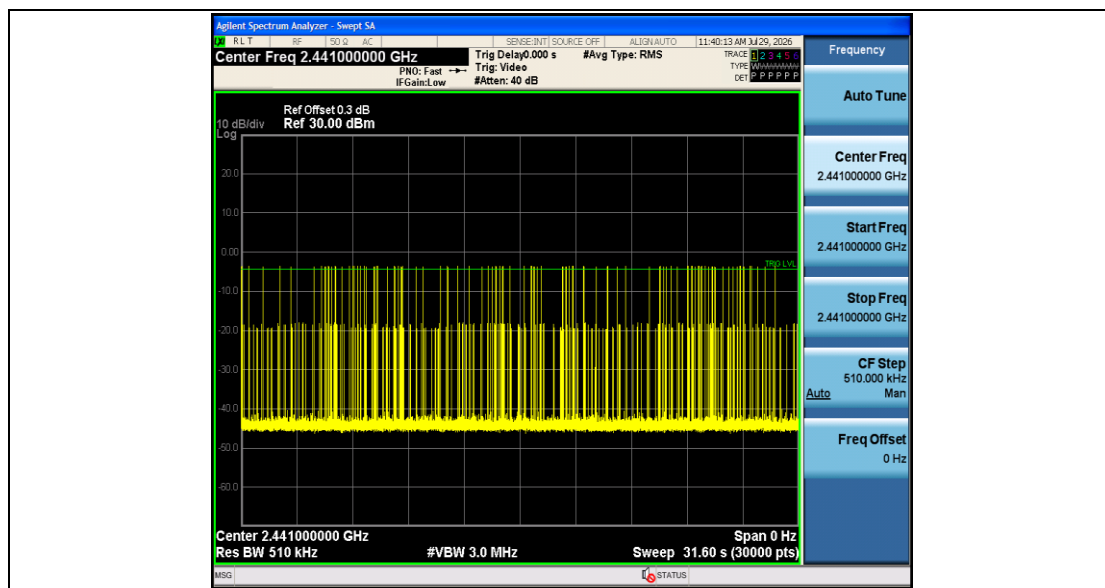


2DH3_Ant1_Hop



2DH5_Ant1_Hop



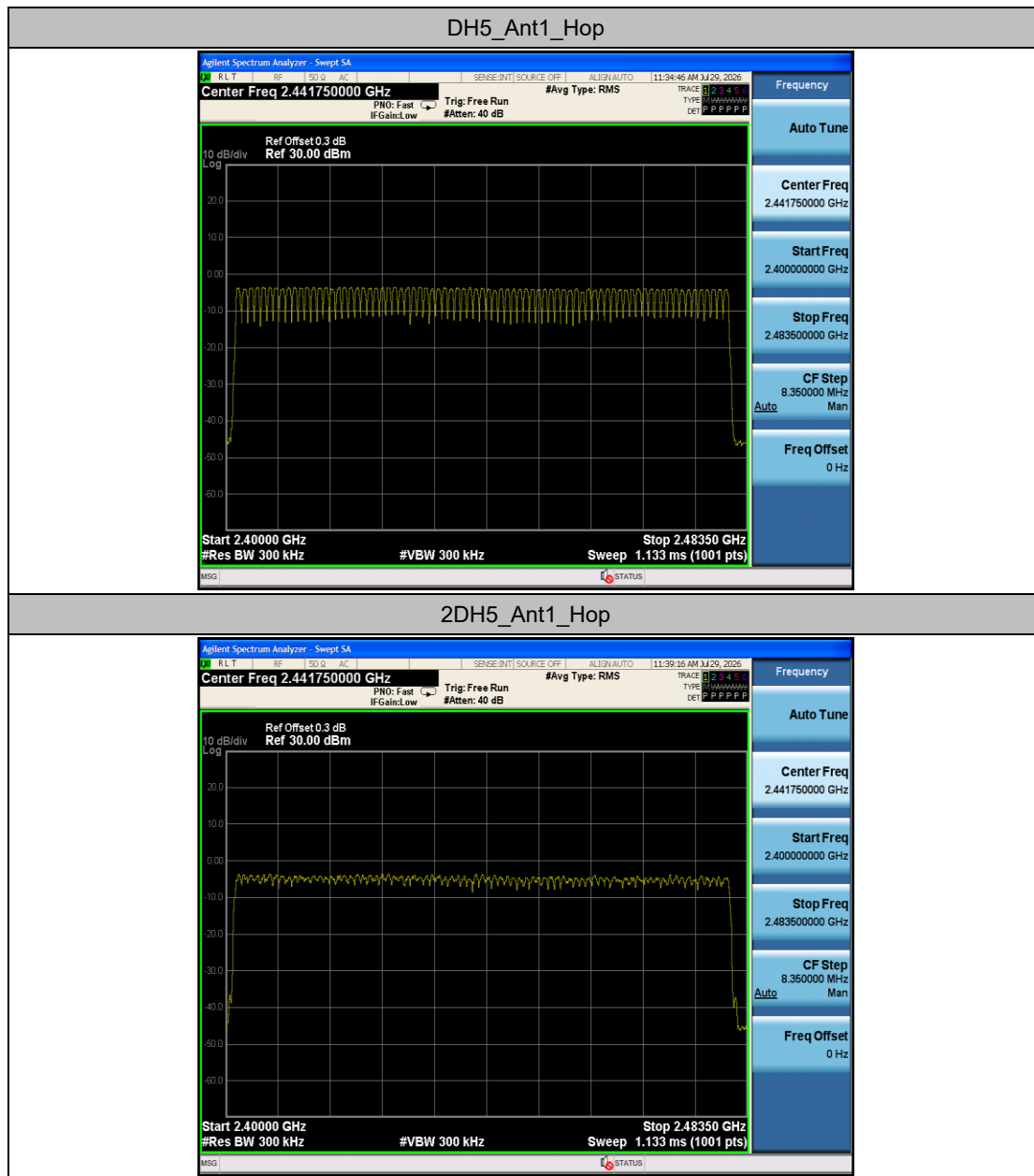


Appendix F: Number of hopping channels

Test Result

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

Test Graphs



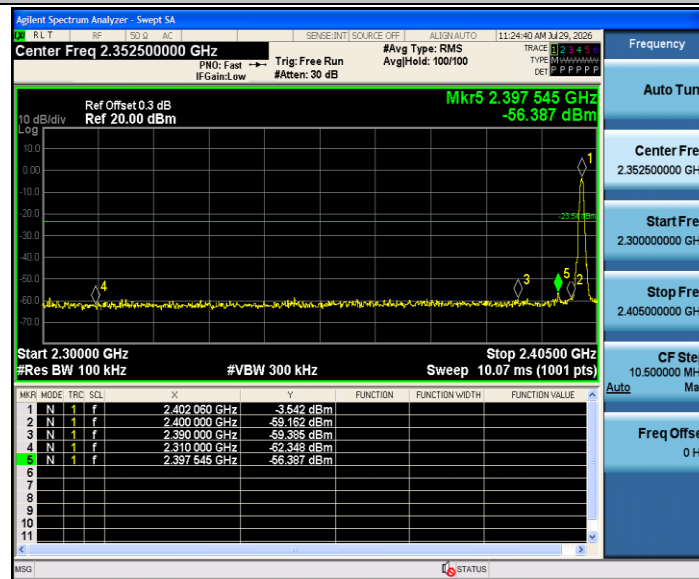
Appendix G: Band edge measurements

Test Result

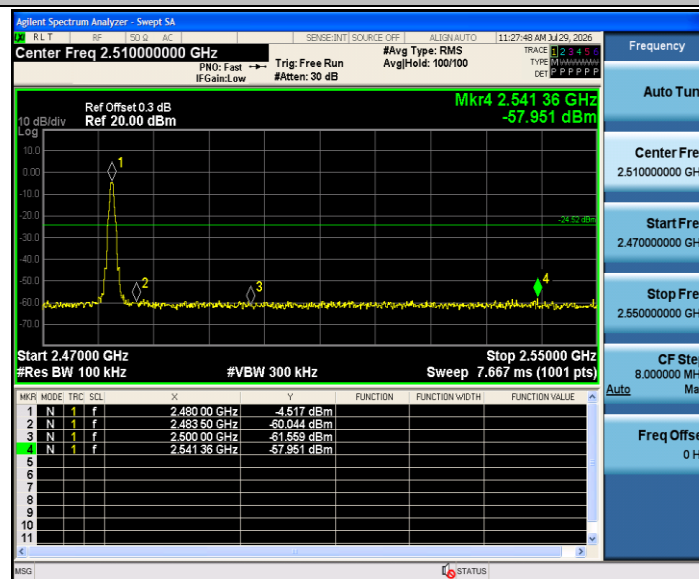
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.54	-56.39	≤-23.54	PASS
		High	2480	-4.52	-57.95	≤-24.52	PASS
		Low	Hop_2402	-4.86	-58.2	≤-24.86	PASS
		High	Hop_2480	-4.17	-56.91	≤-24.17	PASS
2DH5	Ant1	Low	2402	-3.56	-54.46	≤-23.56	PASS
		High	2480	-5.21	-57.67	≤-25.21	PASS
		Low	Hop_2402	-4.45	-58.08	≤-24.45	PASS
		High	Hop_2480	-7.30	-58.28	≤-27.3	PASS

Test Graphs

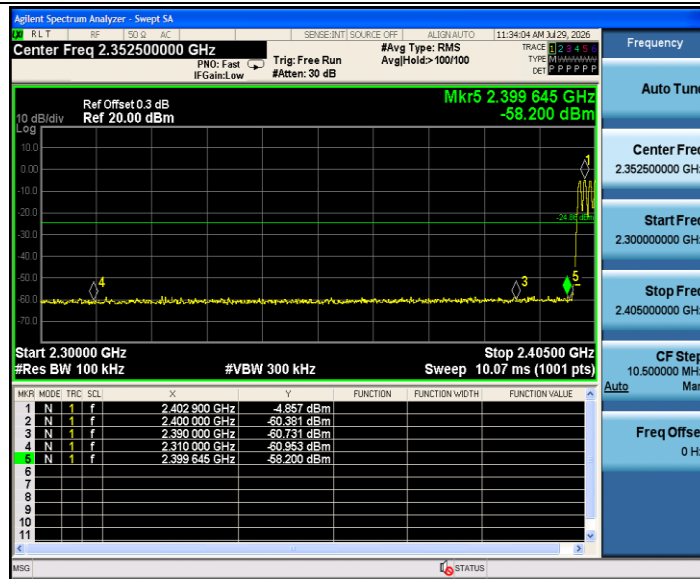
DH5_Ant1_Low_2402



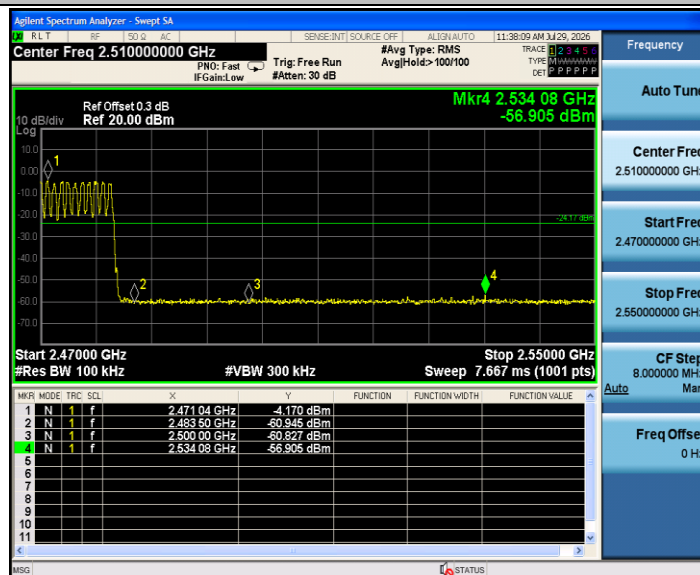
DH5_Ant1_High_2480



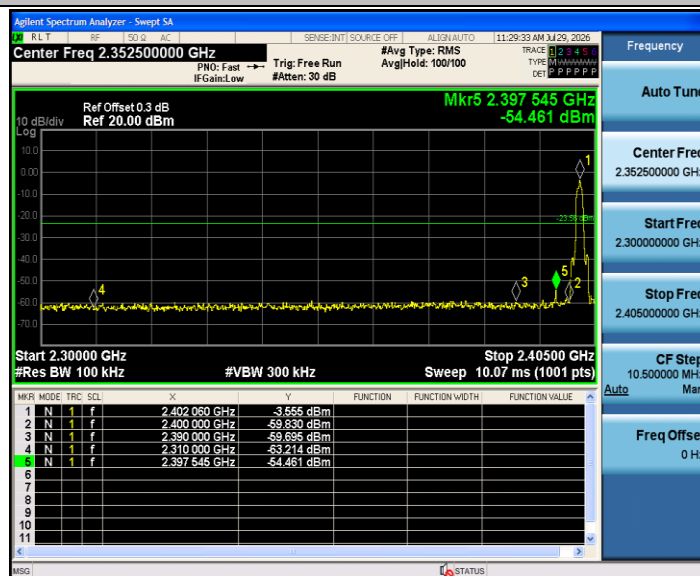
DH5_Ant1_Low_Hop_2402



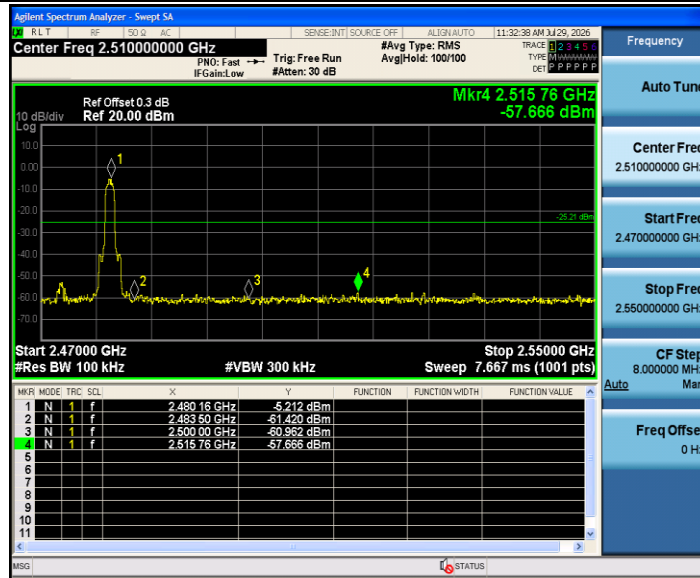
DH5_Ant1_High_Hop_2480



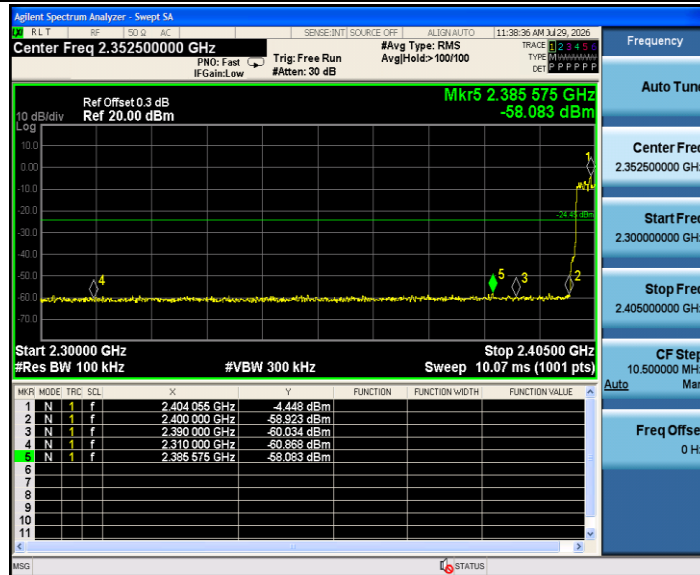
2DH5_Ant1_Low_2402



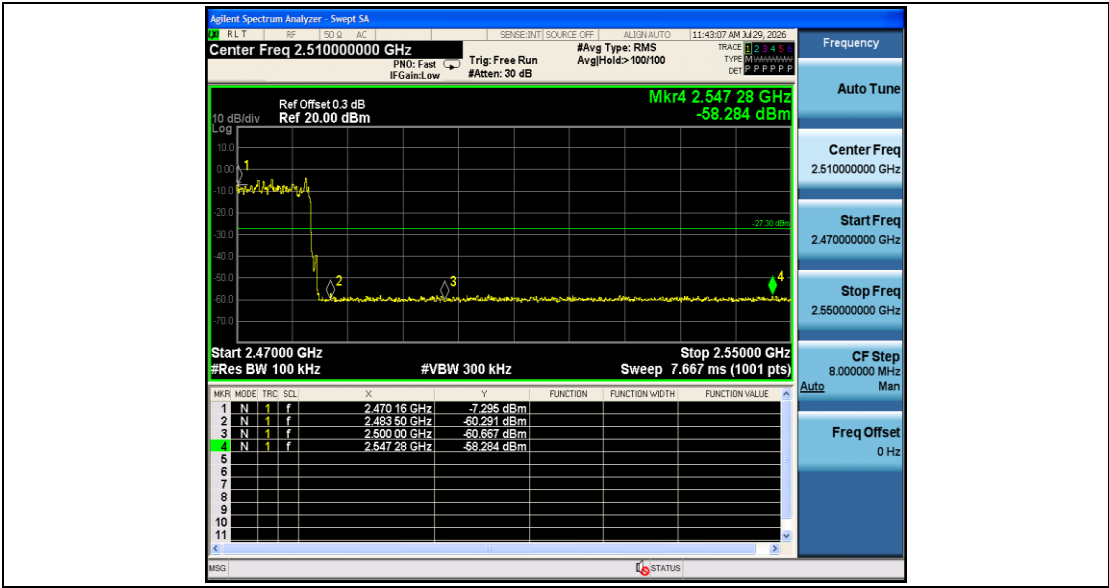
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

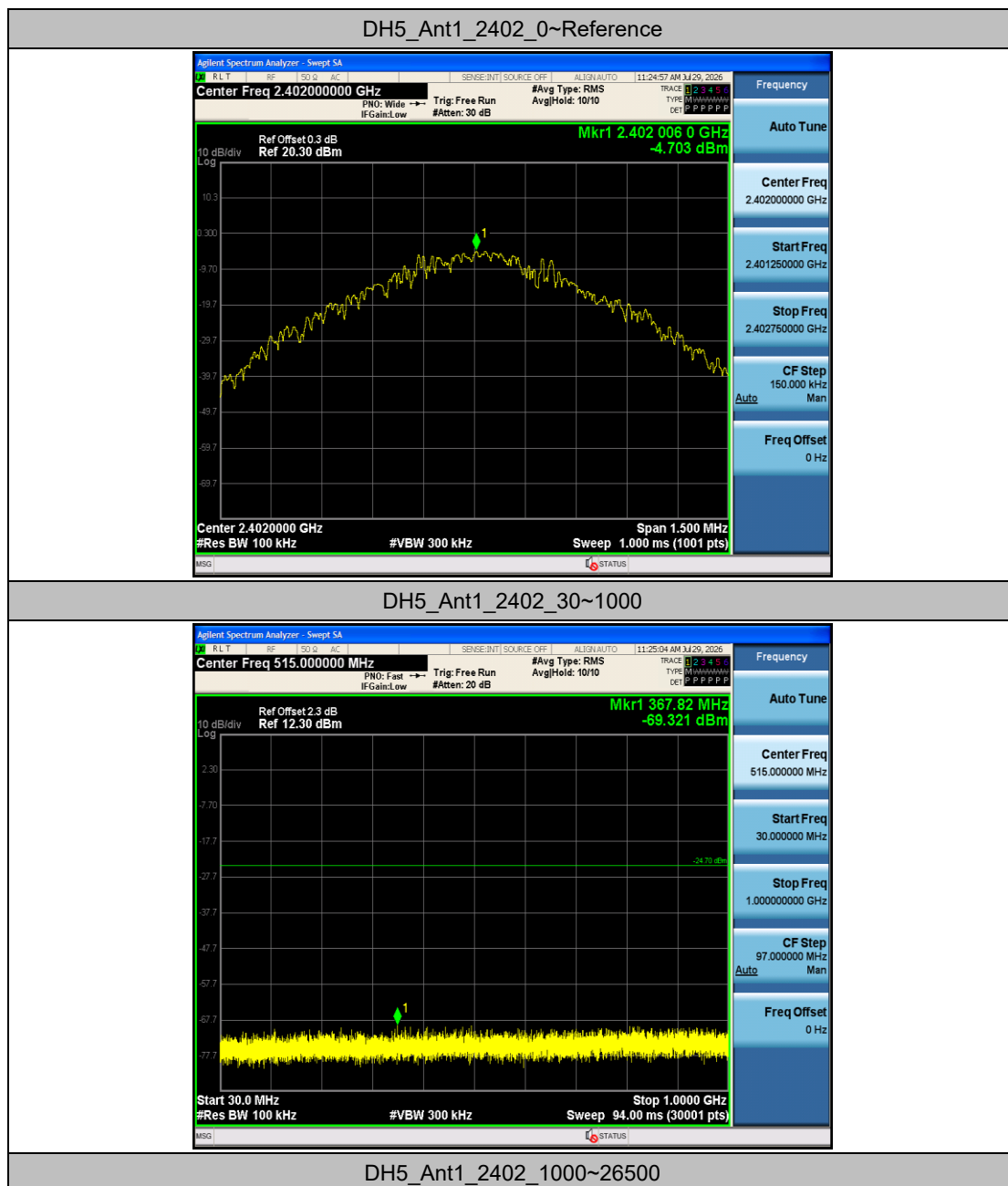


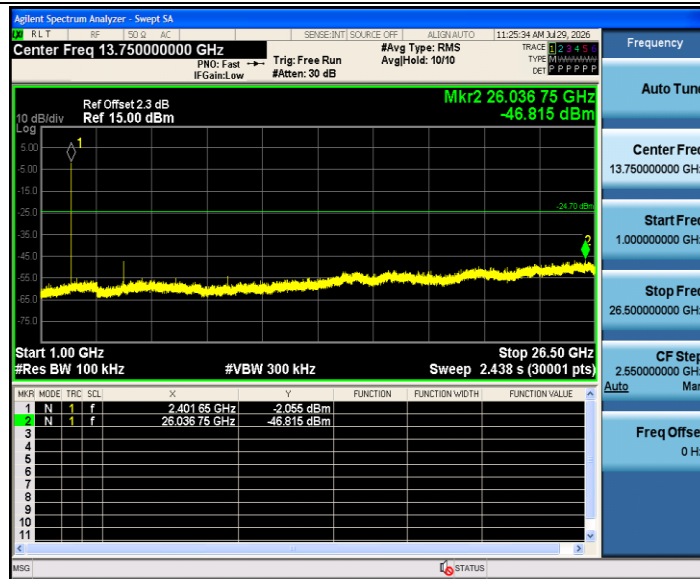
Appendix H: Conducted Spurious Emission

Test Result

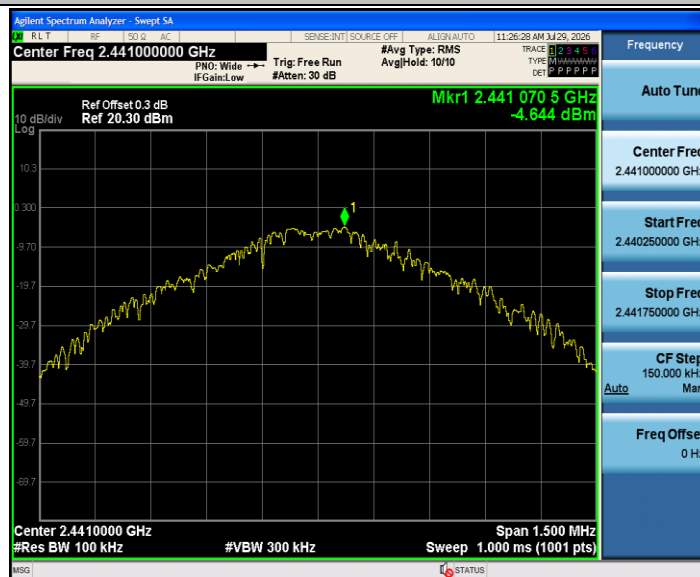
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.70	-4.70	---	PASS
			30~1000	-4.70	-69.32	≤-24.7	PASS
			1000~26500	-4.70	-46.82	≤-24.7	PASS
		2441	Reference	-4.64	-4.64	---	PASS
			30~1000	-4.64	-68.66	≤-24.64	PASS
			1000~26500	-4.64	-47	≤-24.64	PASS
		2480	Reference	-4.09	-4.09	---	PASS
			30~1000	-4.09	-68.18	≤-24.09	PASS
			1000~26500	-4.09	-45.7	≤-24.09	PASS
2DH5	Ant1	2402	Reference	-5.63	-5.63	---	PASS
			30~1000	-5.63	-68.75	≤-25.63	PASS
			1000~26500	-5.63	-46.96	≤-25.63	PASS
		2441	Reference	-3.78	-3.78	---	PASS
			30~1000	-3.78	-68.79	≤-23.78	PASS
			1000~26500	-3.78	-46.34	≤-23.78	PASS
		2480	Reference	-6.61	-6.61	---	PASS
			30~1000	-6.61	-68.28	≤-26.61	PASS
			1000~26500	-6.61	-46.04	≤-26.61	PASS

Test Graphs

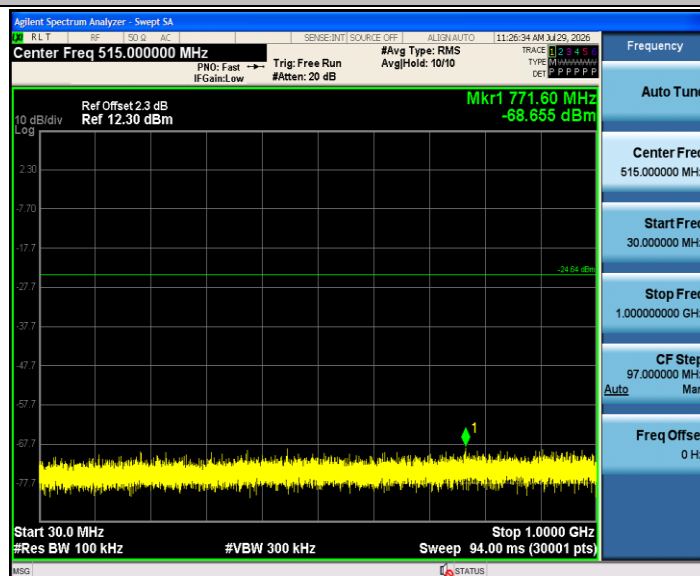




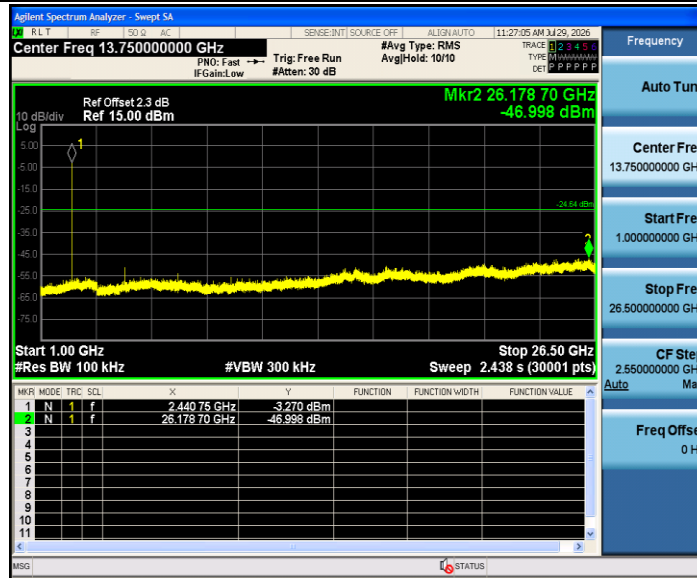
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



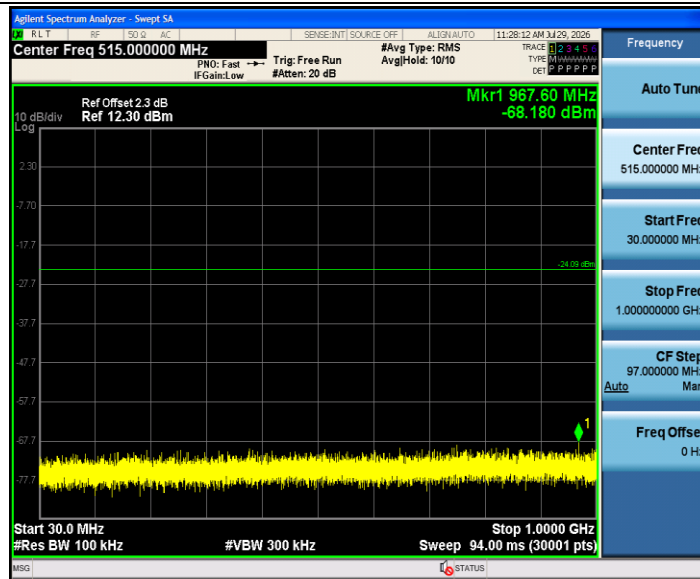
DH5_Ant1_2441_1000~26500



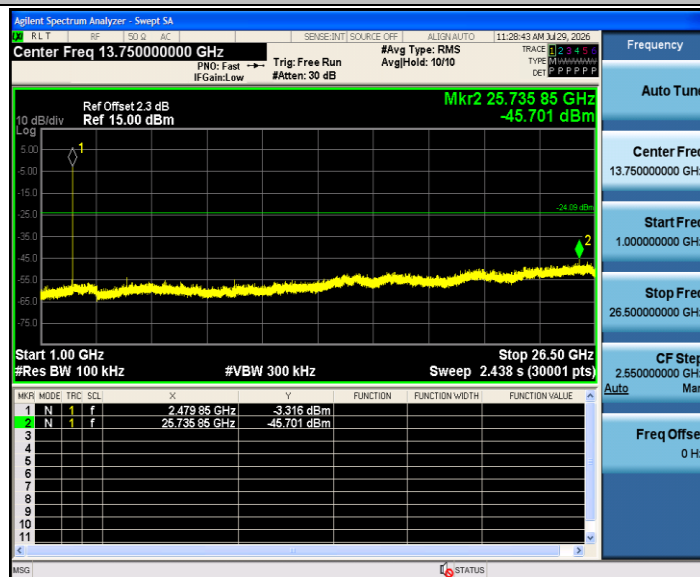
DH5_Ant1_2480_0~Reference



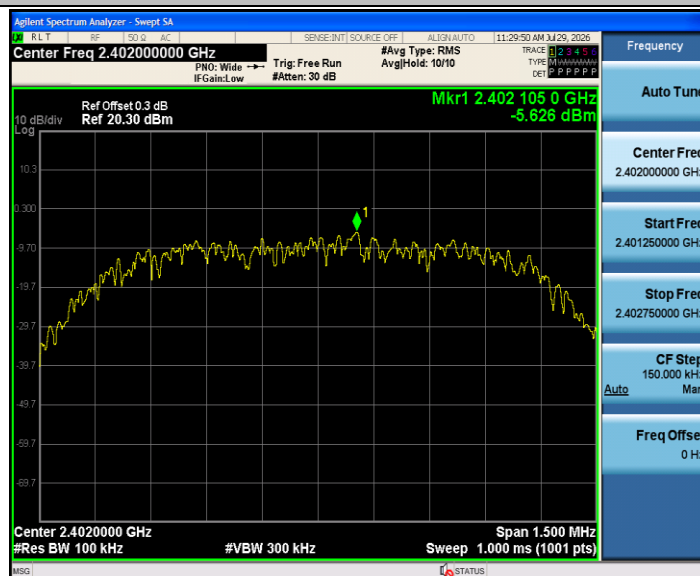
DH5_Ant1_2480_30~1000



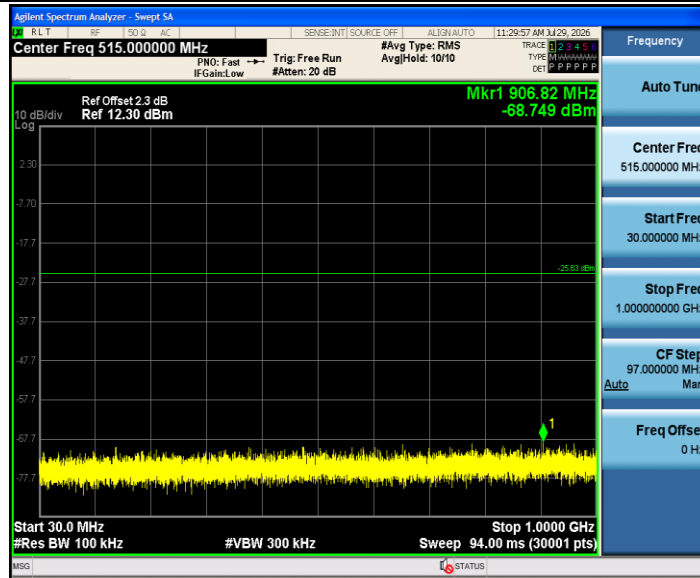
DH5_Ant1_2480_1000~26500



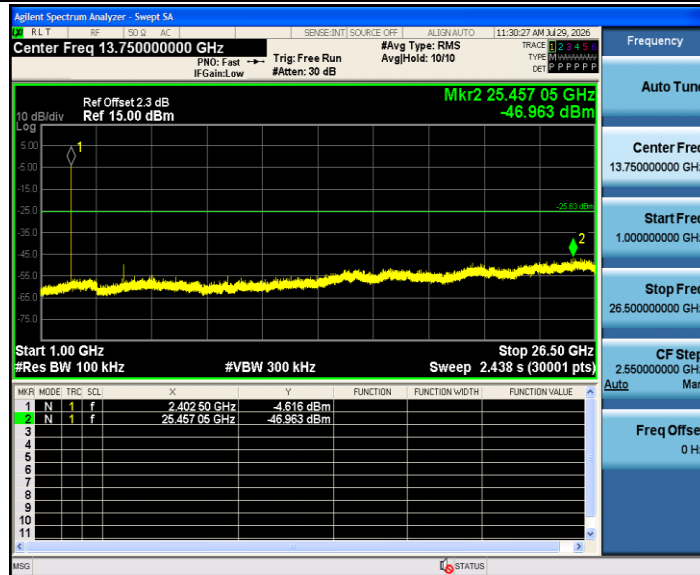
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



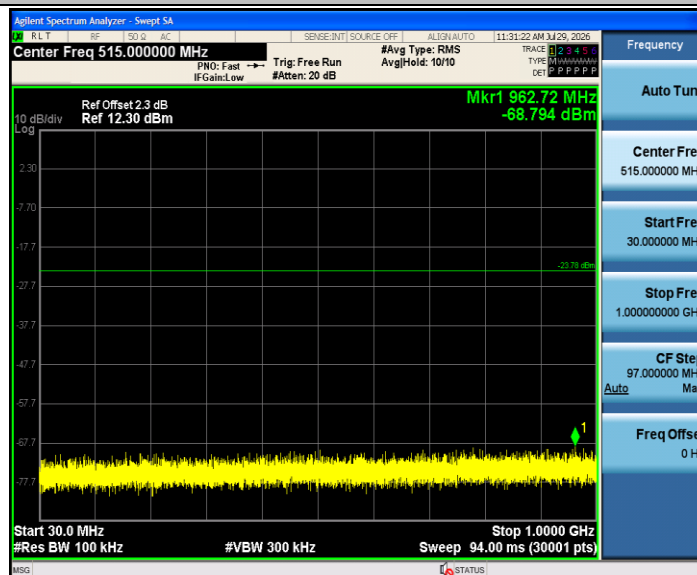
2DH5_Ant1_2402_1000~26500



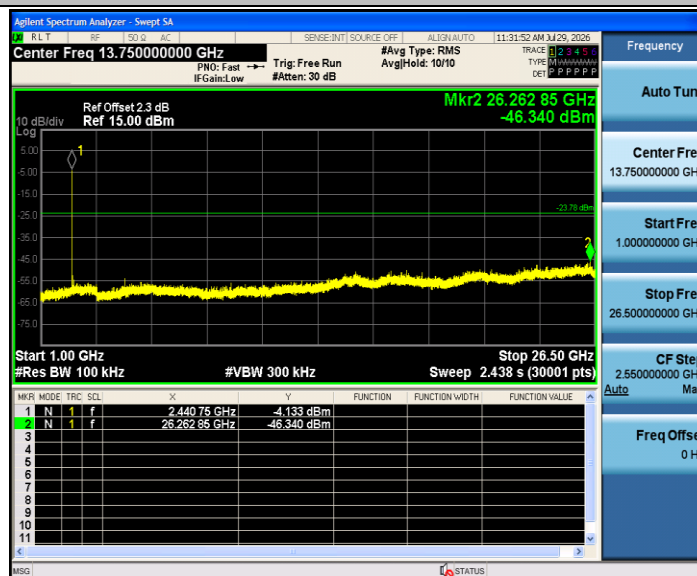
2DH5_Ant1_2441_0~Reference



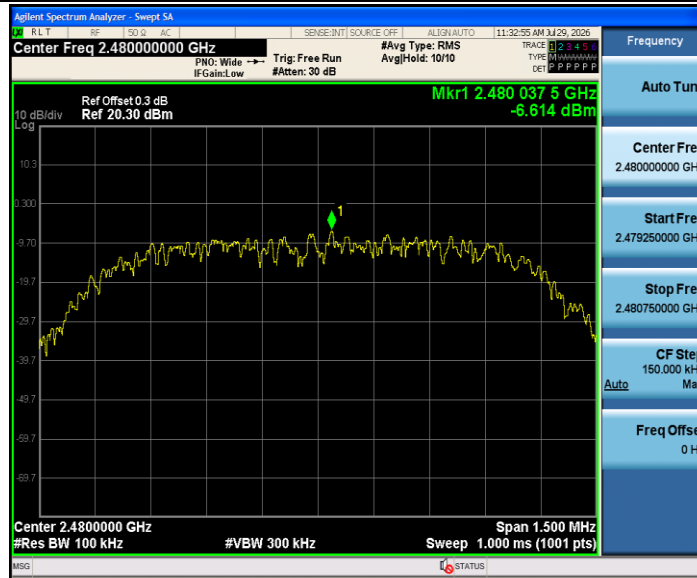
2DH5_Ant1_2441_30~1000



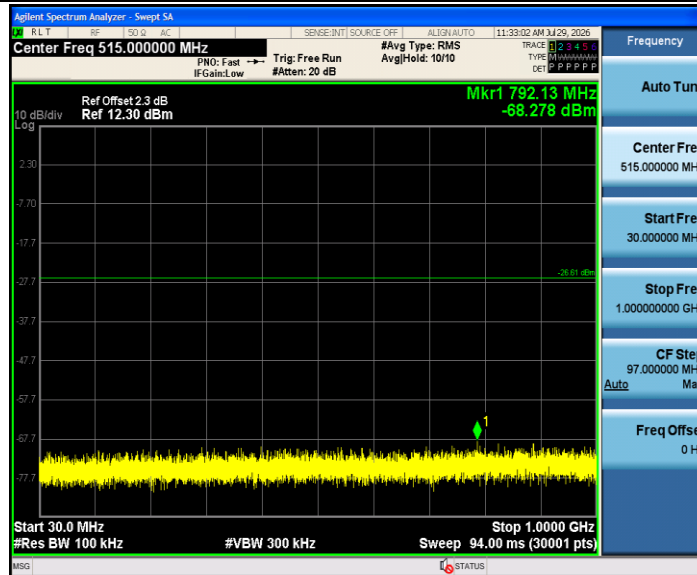
2DH5_Ant1_2441_1000~26500



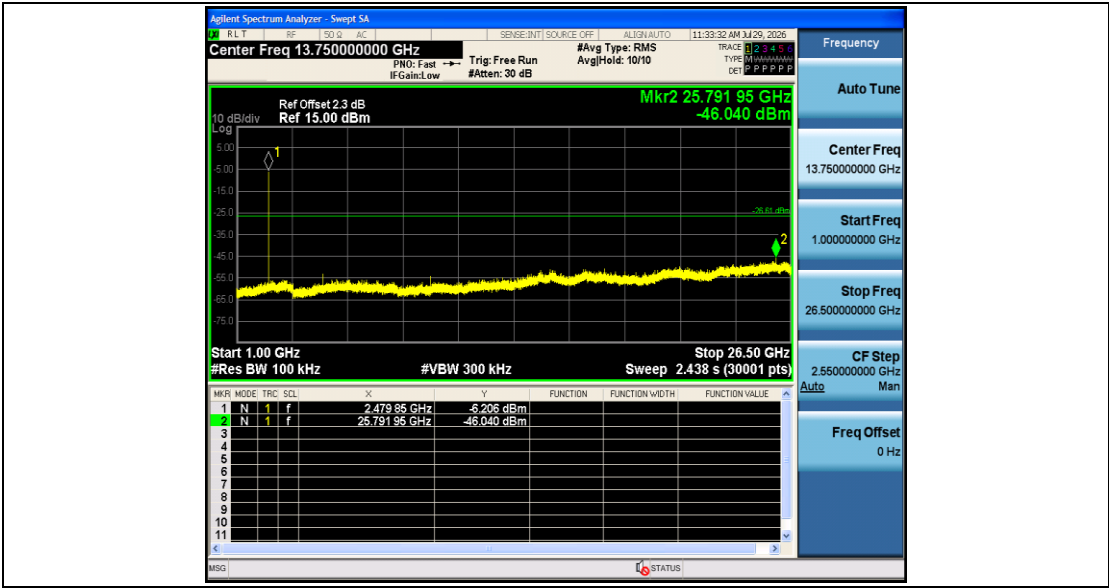
2DH5_Ant1_2480_0~Reference



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