

FCC Appendix RF Test Data for BT

FCC ID : 2BRR7-MPAK100

Company : ICAD Holdings LLC

EUT : Bluetooth Party Speaker

Model Number : YM17

Report No. : CTA26070600802

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	0.966	2401.541	2402.507	---	---
		2441	0.945	2440.550	2441.495	---	---
		2480	0.954	2479.544	2480.498	---	---
2DH5	Ant1	2402	1.287	2401.376	2402.663	---	---
		2441	1.317	2440.349	2441.666	---	---
		2480	1.317	2479.355	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

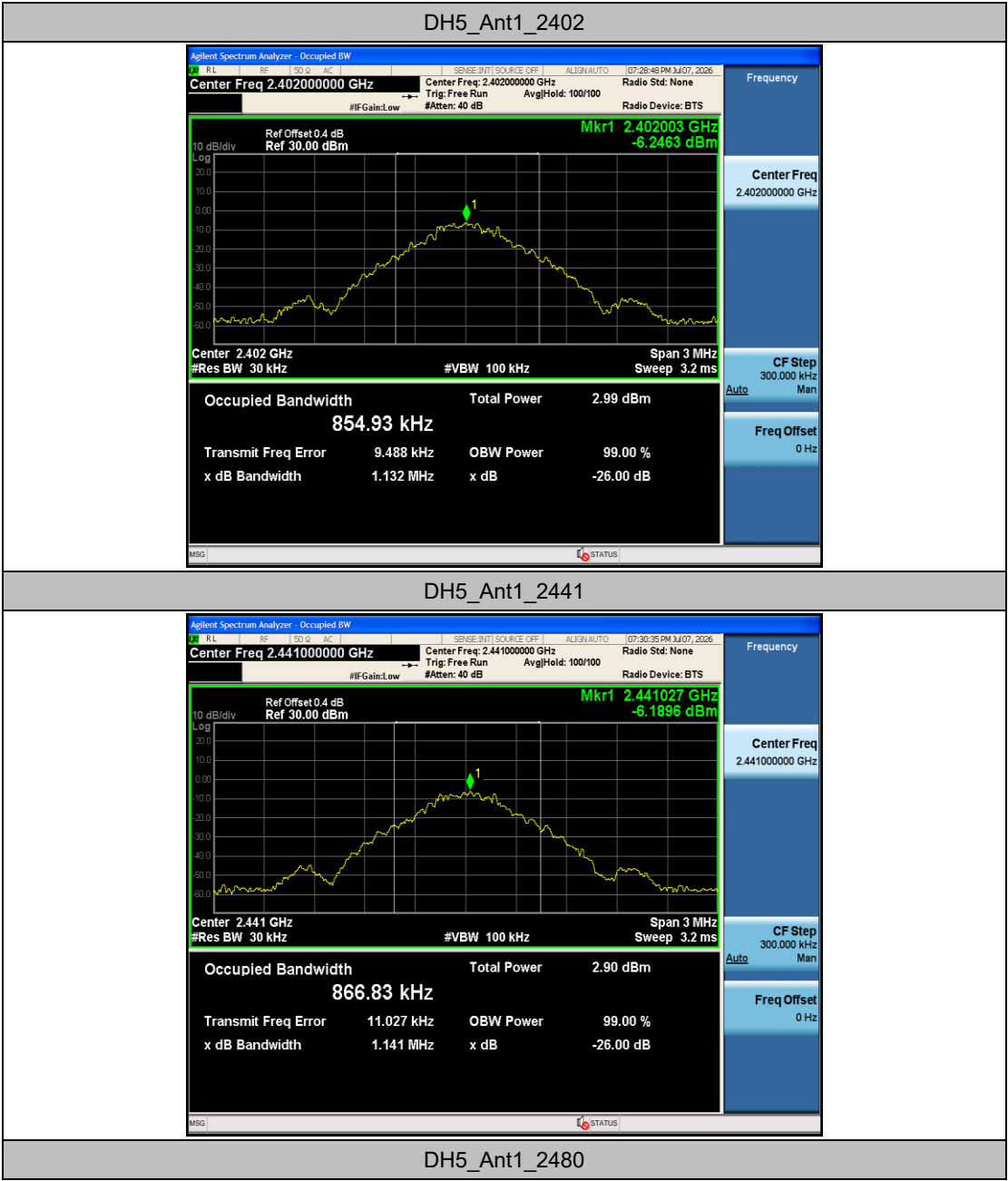


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85493	2401.5820	2402.4370	---	---
		2441	0.86683	2440.5776	2441.4444	---	---
		2480	0.87186	2479.5753	2480.4471	---	---
2DH5	Ant1	2402	1.1928	2401.4131	2402.6059	---	---
		2441	1.1855	2440.4167	2441.6022	---	---
		2480	1.1872	2479.4164	2480.6036	---	---

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	-3.44	≤20.97	PASS
		2441	-3.50	≤20.97	PASS
		2480	-3.84	≤20.97	PASS
2DH5	Ant1	2402	-0.92	≤20.97	PASS
		2441	-0.86	≤20.97	PASS
		2480	-1.31	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥ 0.966	PASS
2DH5	Ant1	Hop	1.024	≥ 0.878	PASS

Test Graphs

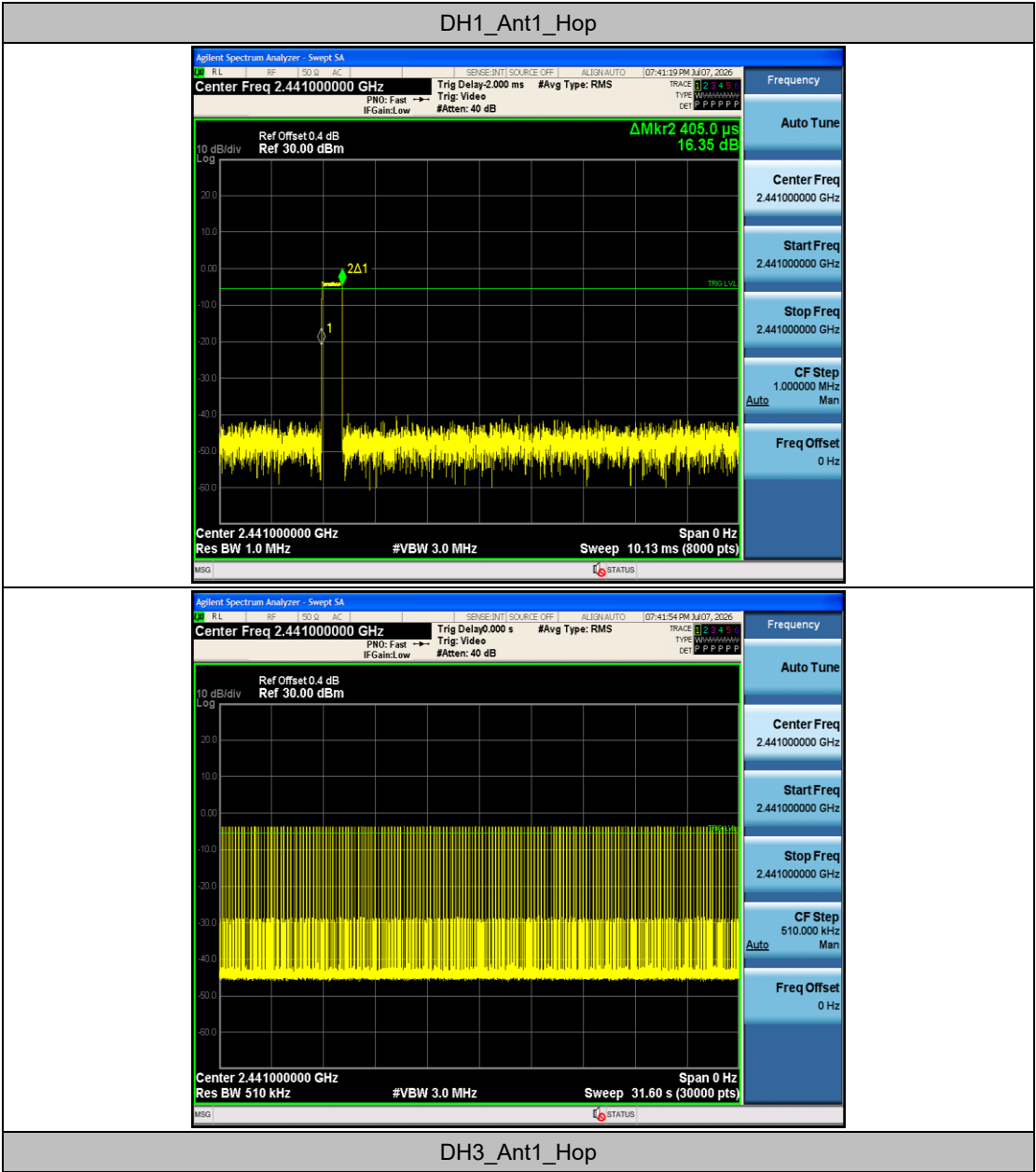


Appendix E: Time of occupancy

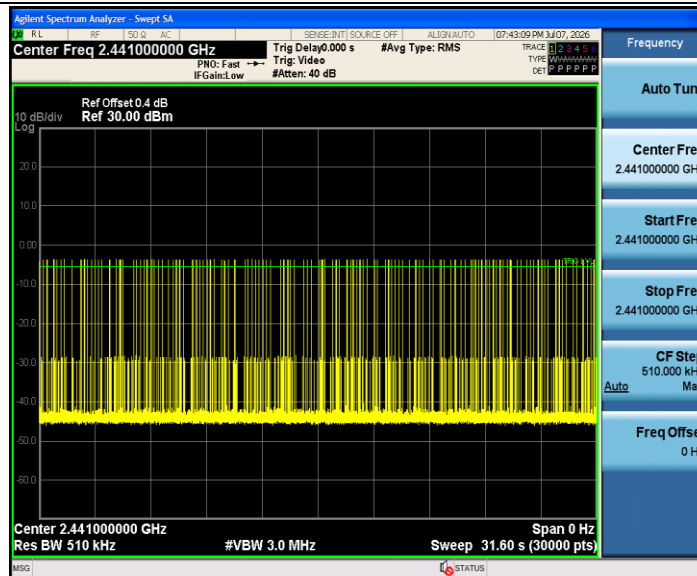
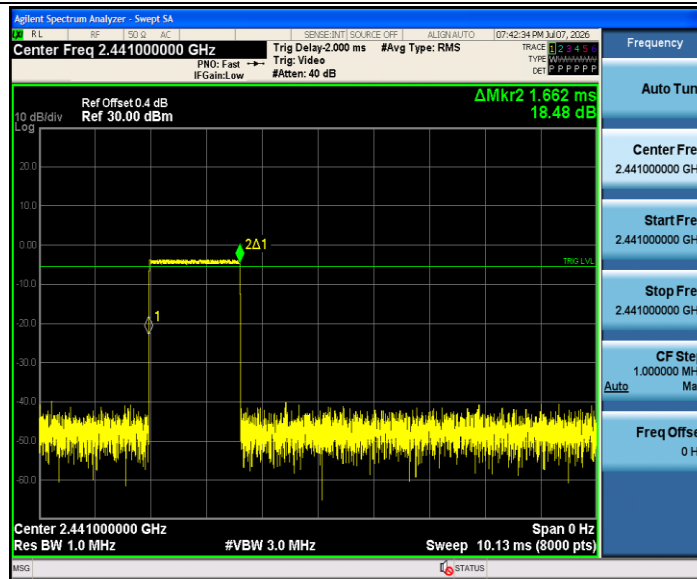
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	316	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.662	164	0.273	≤0.4	PASS
DH5	Ant1	Hop	2.910	97	0.282	≤0.4	PASS
2DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	162	0.27	≤0.4	PASS
2DH5	Ant1	Hop	2.915	98	0.286	≤0.4	PASS

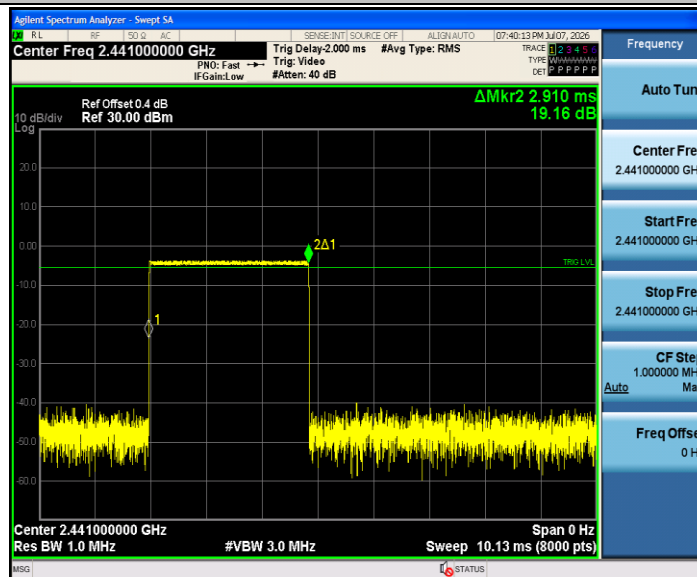
Test Graphs

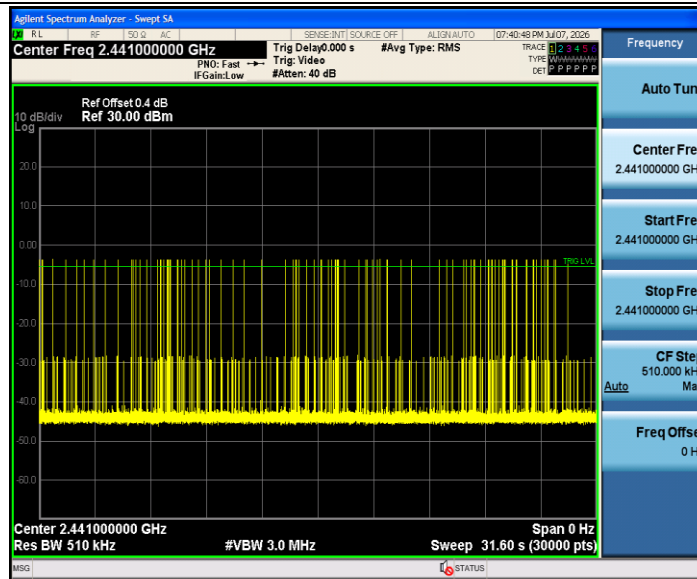


DH3_Ant1_Hop

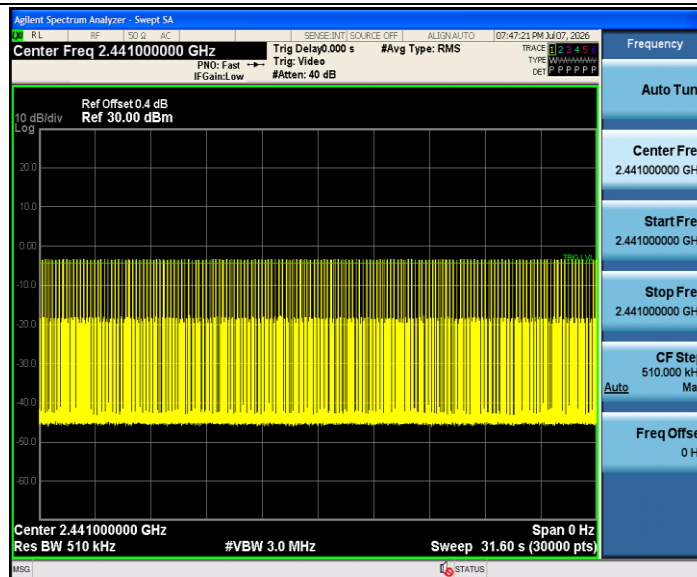
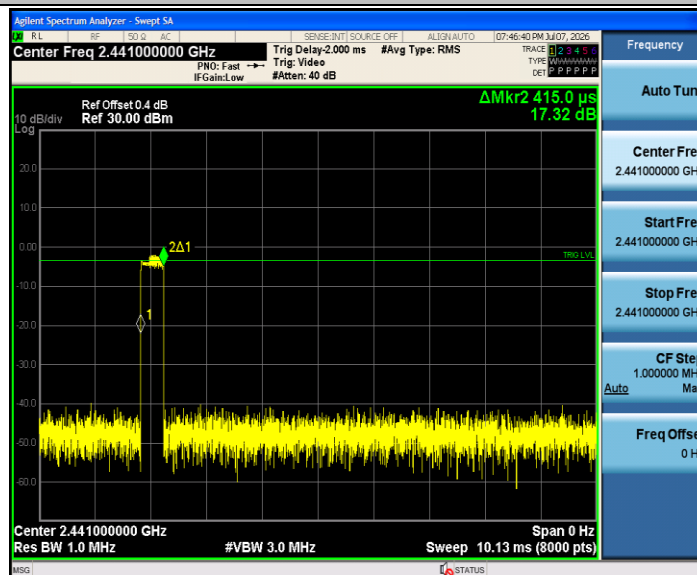


DH5_Ant1_Hop

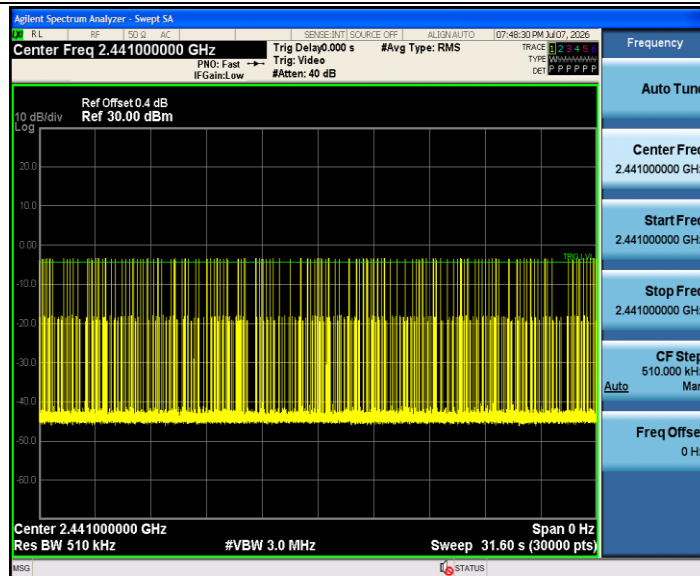
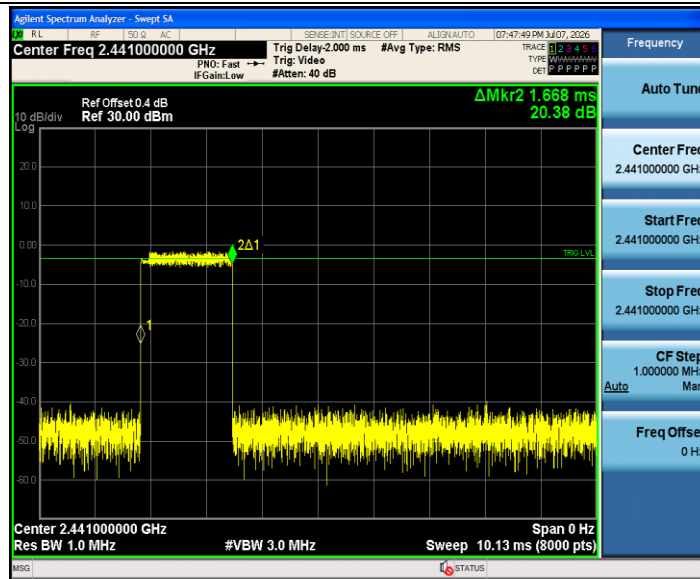




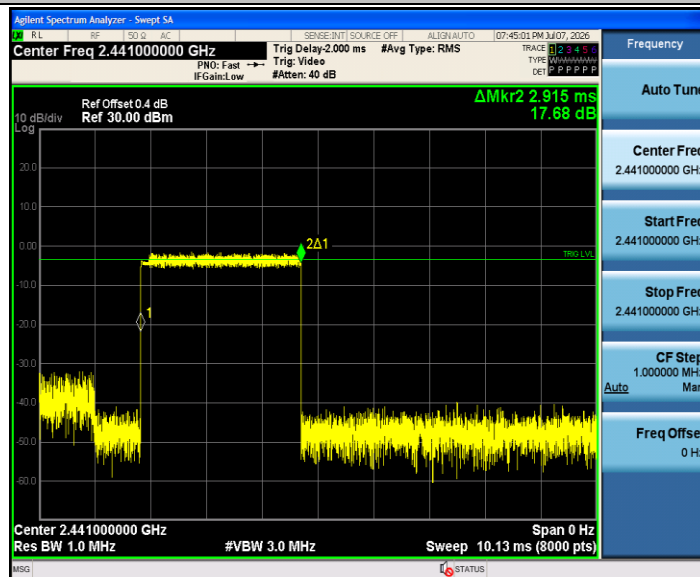
2DH1_Ant1_Hop

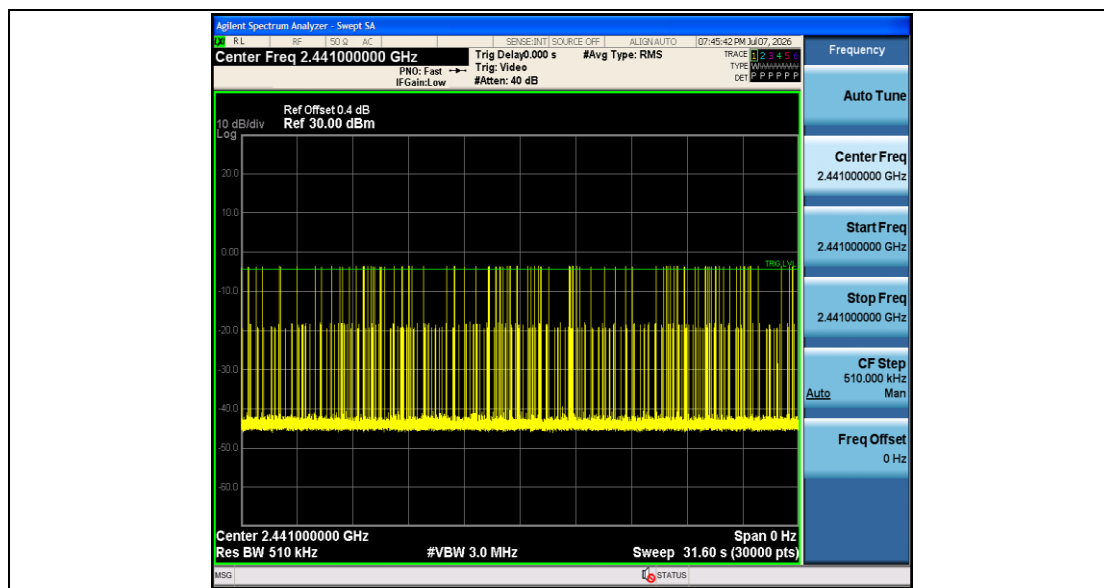


2DH3_Ant1_Hop



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

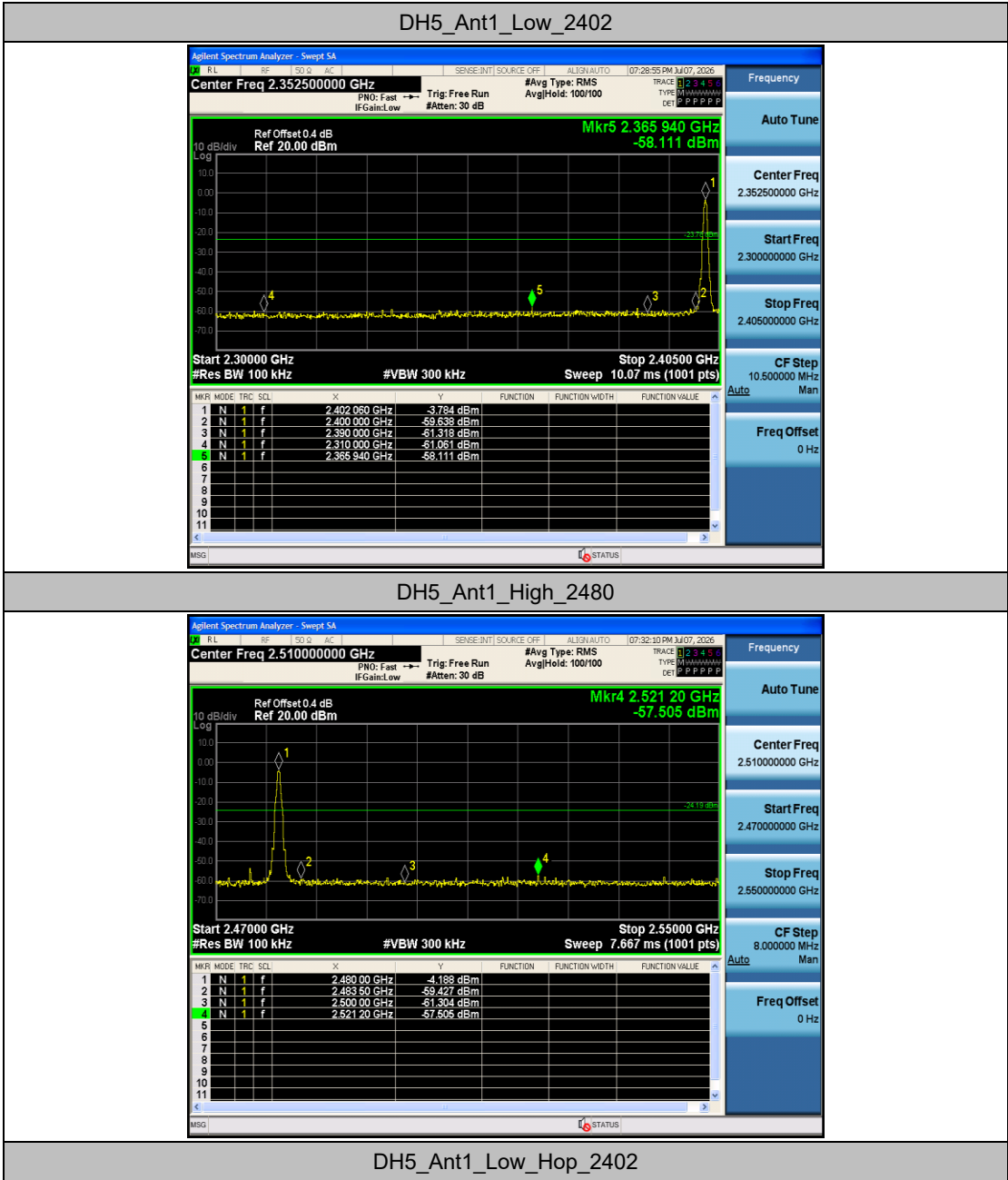


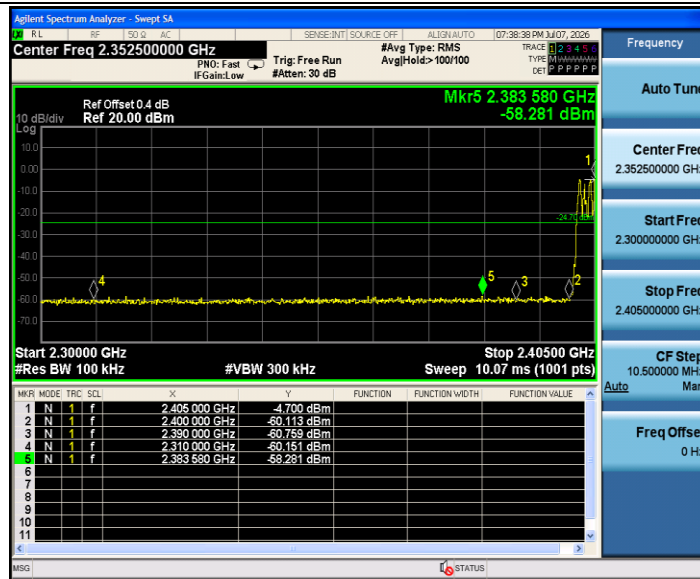
Appendix G: Band edge measurements

Test Result

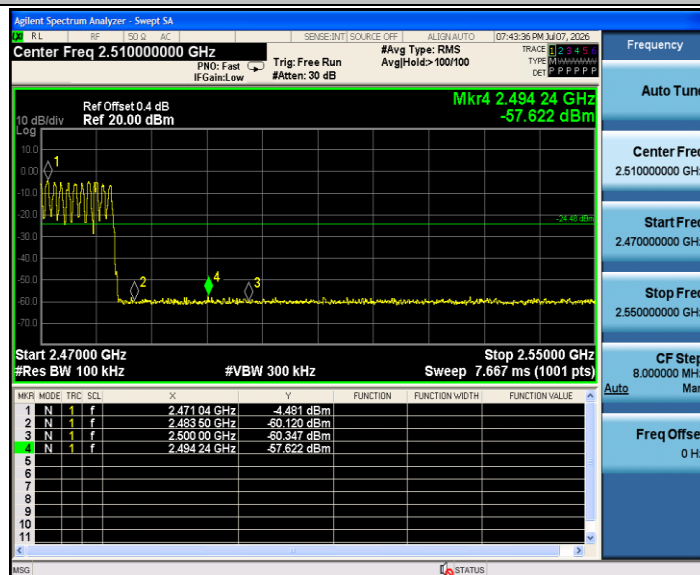
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.78	-58.11	≤ -23.78	PASS
		High	2480	-4.19	-57.51	≤ -24.19	PASS
		Low	Hop_2402	-4.70	-58.28	≤ -24.7	PASS
		High	Hop_2480	-4.48	-57.62	≤ -24.48	PASS
2DH5	Ant1	Low	2402	-4.96	-58.03	≤ -24.96	PASS
		High	2480	-4.08	-56.61	≤ -24.08	PASS
		Low	Hop_2402	-6.43	-58.23	≤ -26.43	PASS
		High	Hop_2480	-4.87	-57.75	≤ -24.87	PASS

Test Graphs

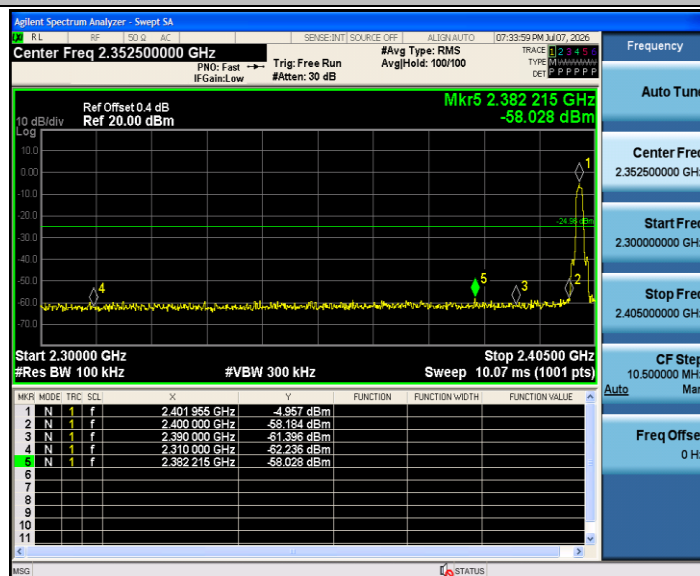




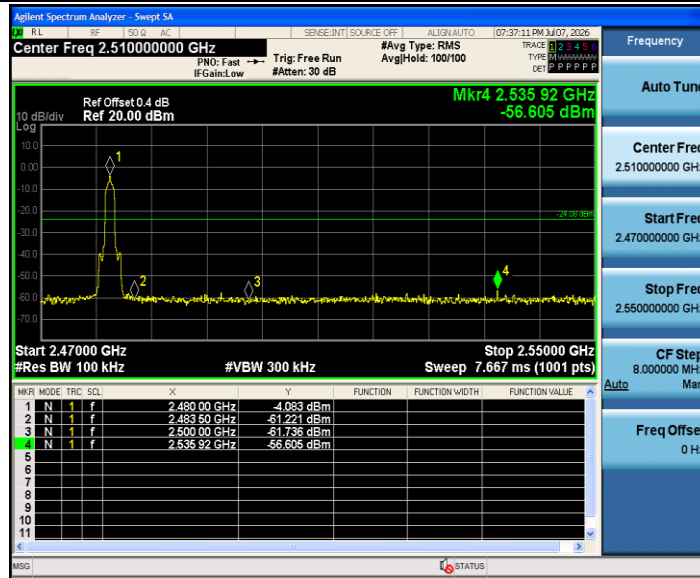
DH5_Ant1_High_Hop_2480



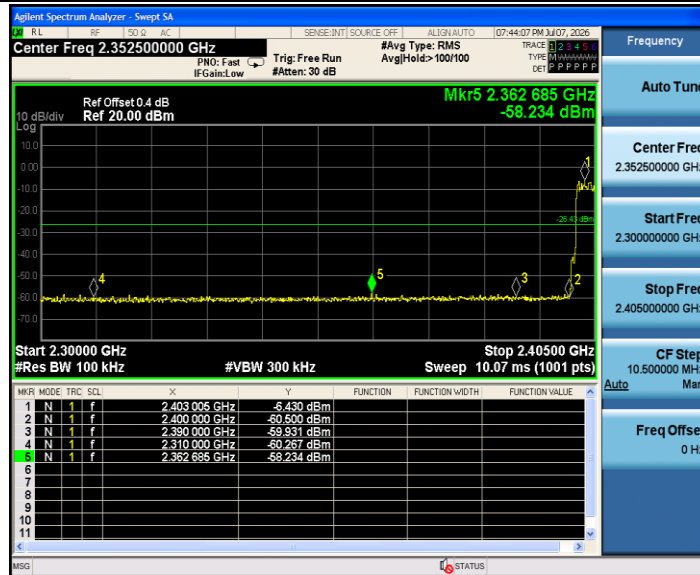
2DH5_Ant1_Low_2402



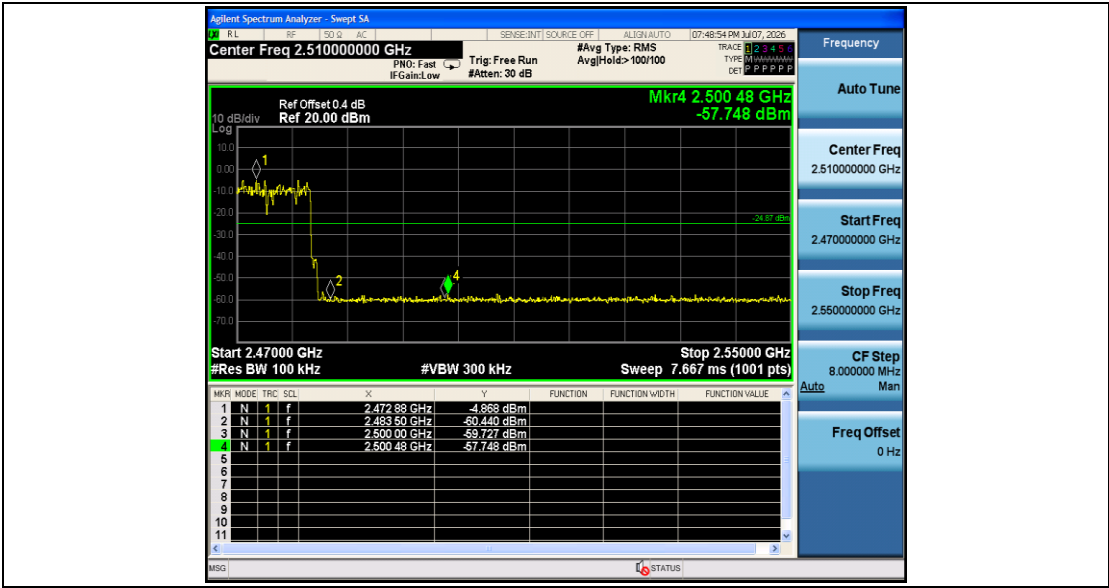
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

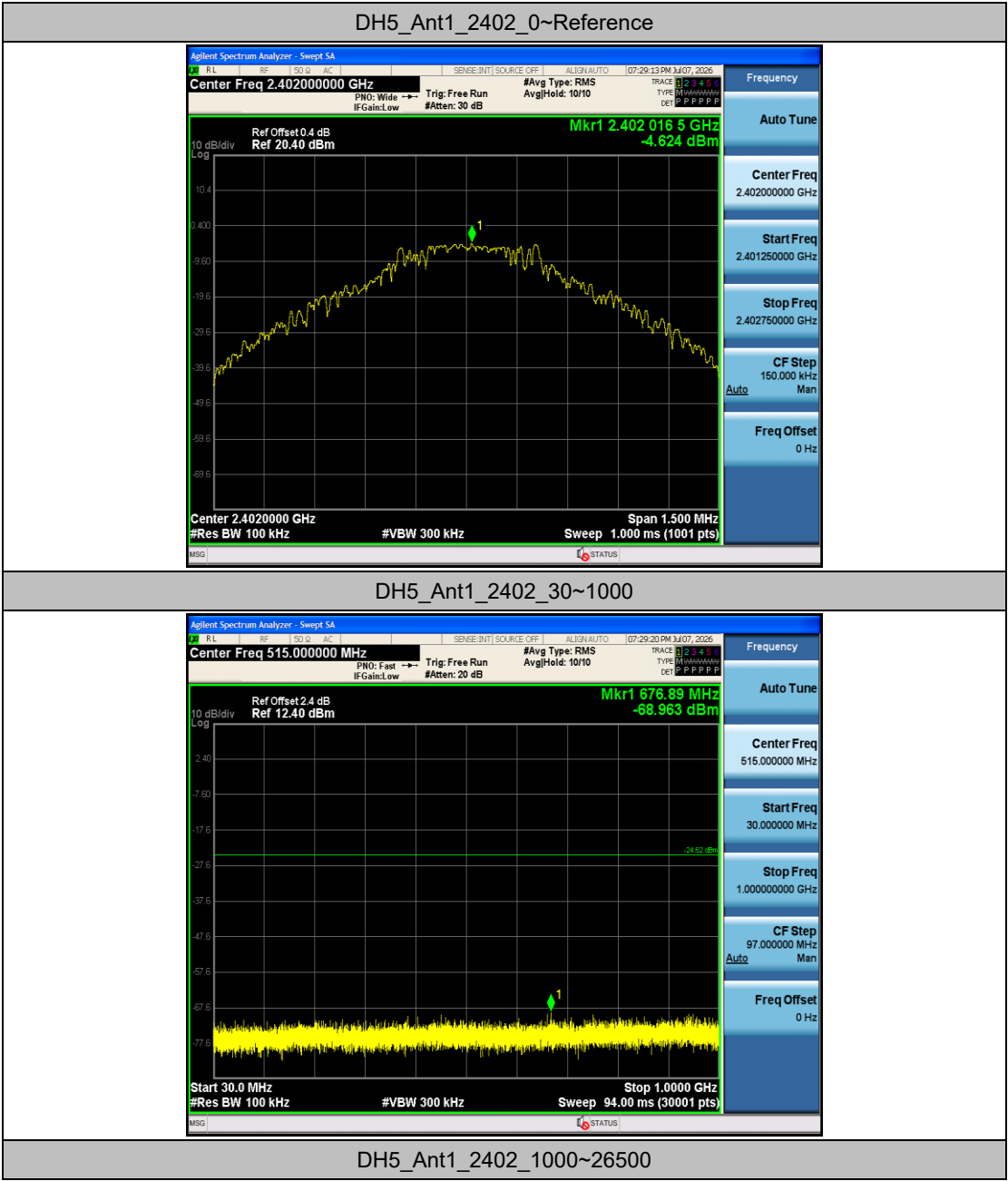


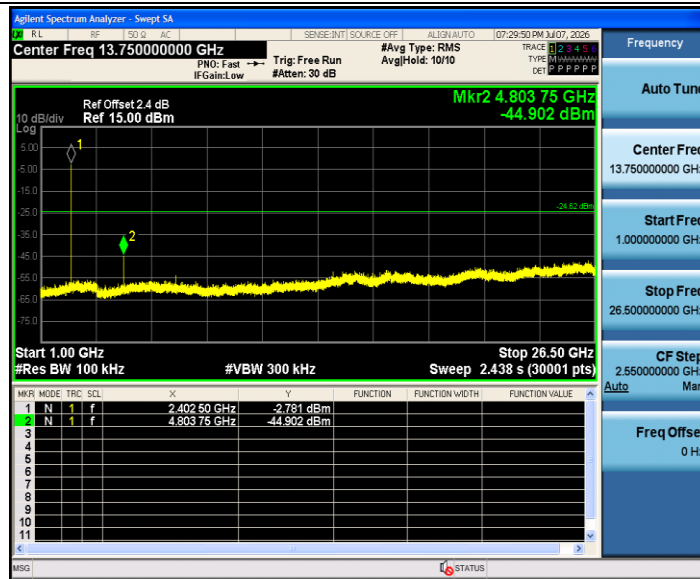
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.62	-4.62	---	PASS
			30~1000	-4.62	-68.96	≤-24.62	PASS
			1000~26500	-4.62	-44.9	≤-24.62	PASS
		2441	Reference	-3.75	-3.75	---	PASS
			30~1000	-3.75	-69.37	≤-23.75	PASS
			1000~26500	-3.75	-47.04	≤-23.75	PASS
		2480	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-69.06	≤-25.2	PASS
			1000~26500	-5.20	-47.32	≤-25.2	PASS
2DH5	Ant1	2402	Reference	-6.09	-6.09	---	PASS
			30~1000	-6.09	-69.78	≤-26.09	PASS
			1000~26500	-6.09	-45.86	≤-26.09	PASS
		2441	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-68.9	≤-25.16	PASS
			1000~26500	-5.16	-46.04	≤-25.16	PASS
		2480	Reference	-5.31	-5.31	---	PASS
			30~1000	-5.31	-68.49	≤-25.31	PASS
			1000~26500	-5.31	-47.36	≤-25.31	PASS

Test Graphs

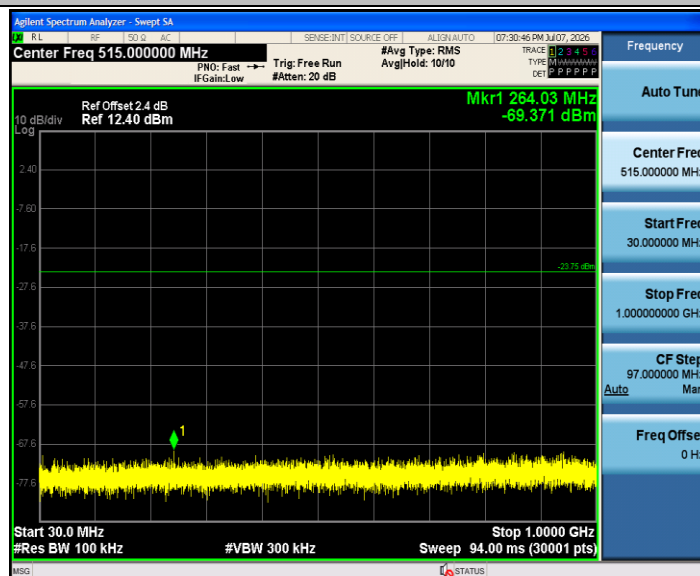




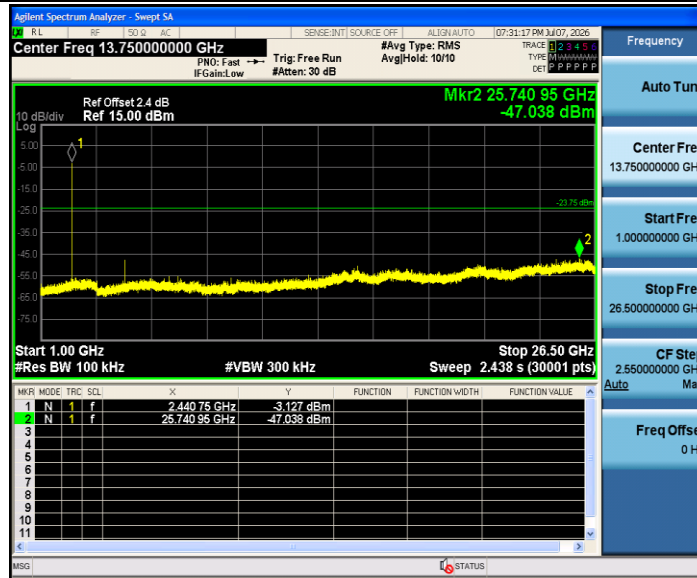
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



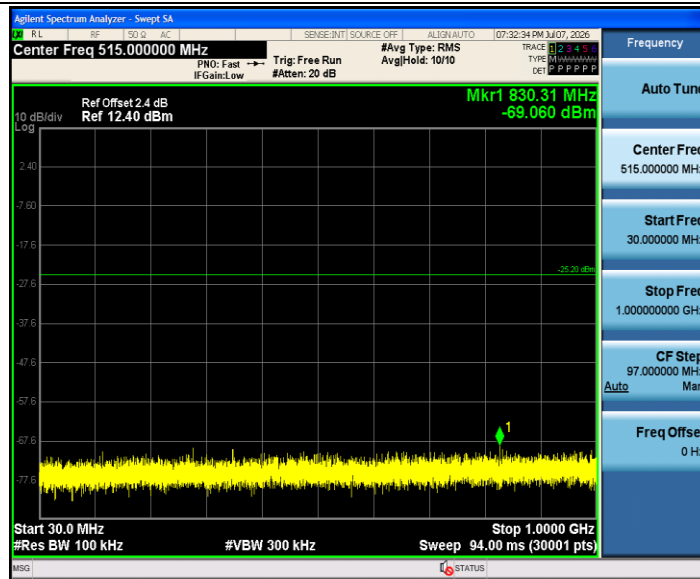
DH5_Ant1_2441_1000~26500



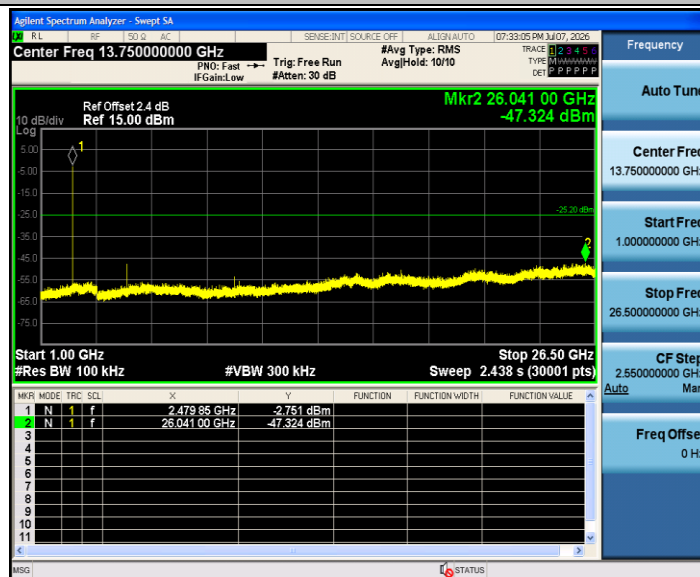
DH5_Ant1_2480_0~Reference



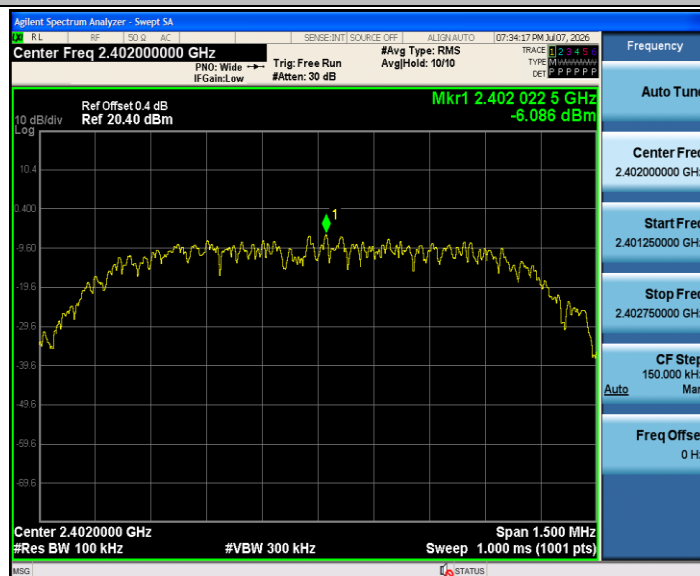
DH5_Ant1_2480_30~1000



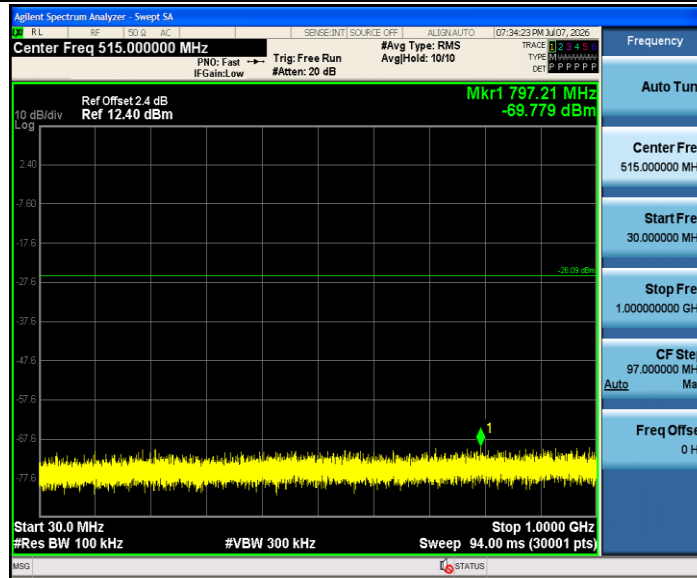
DH5_Ant1_2480_1000~26500



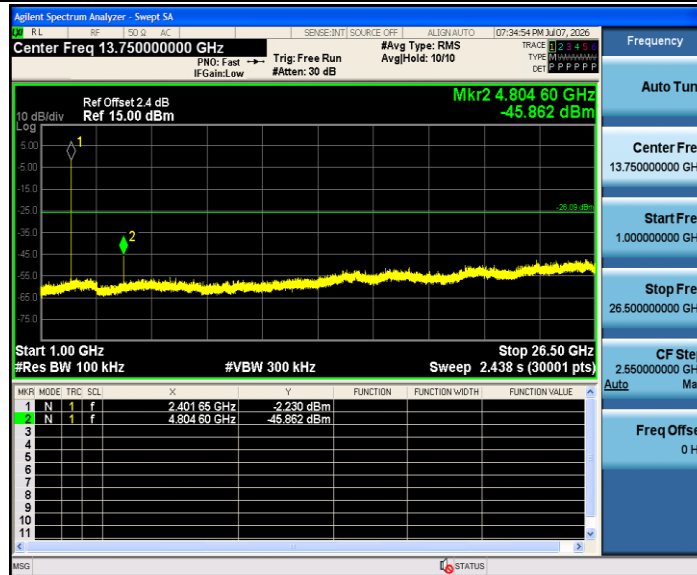
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



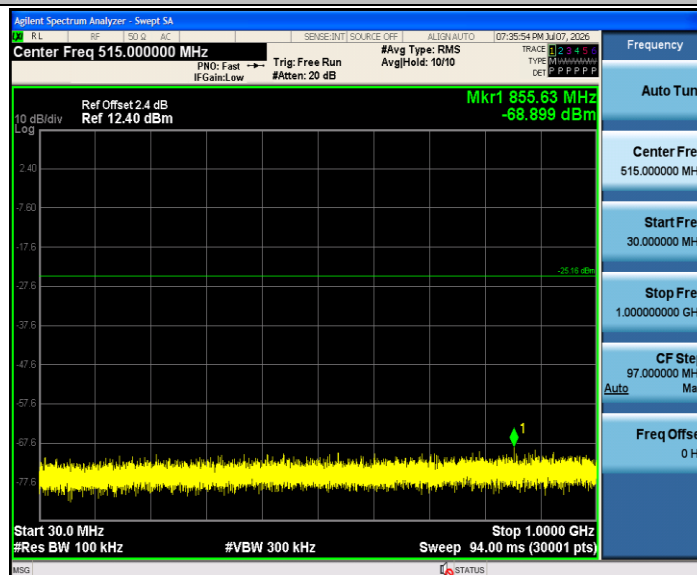
2DH5_Ant1_2402_1000~26500



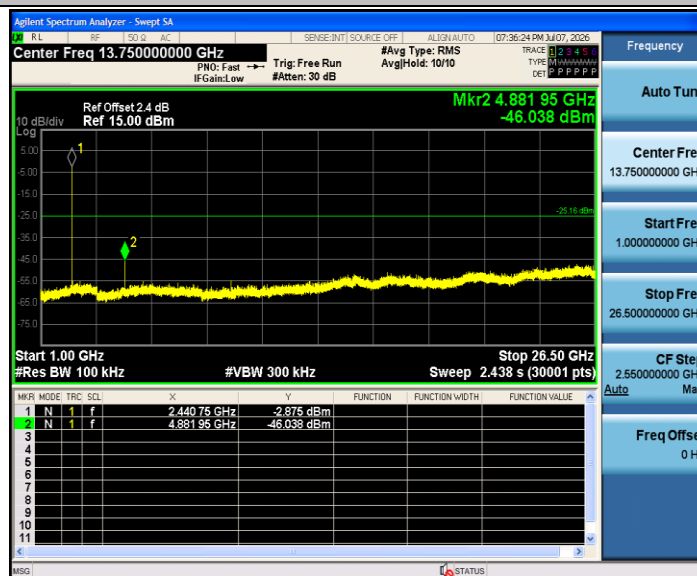
2DH5_Ant1_2441_0~Reference



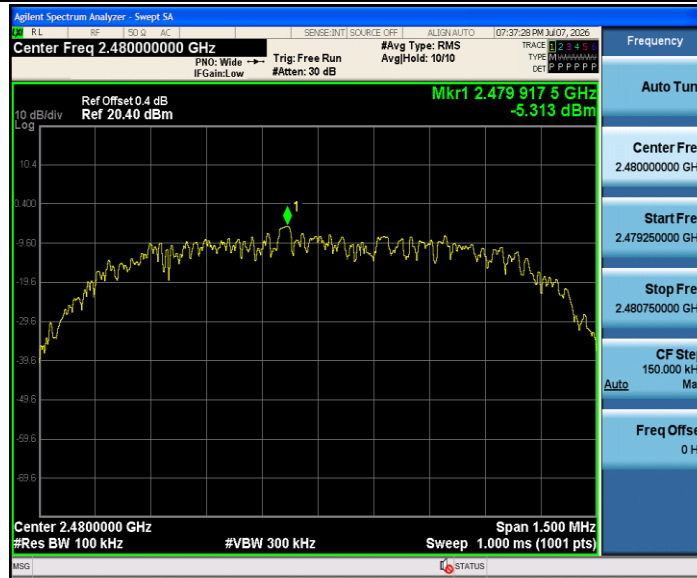
2DH5_Ant1_2441_30~1000



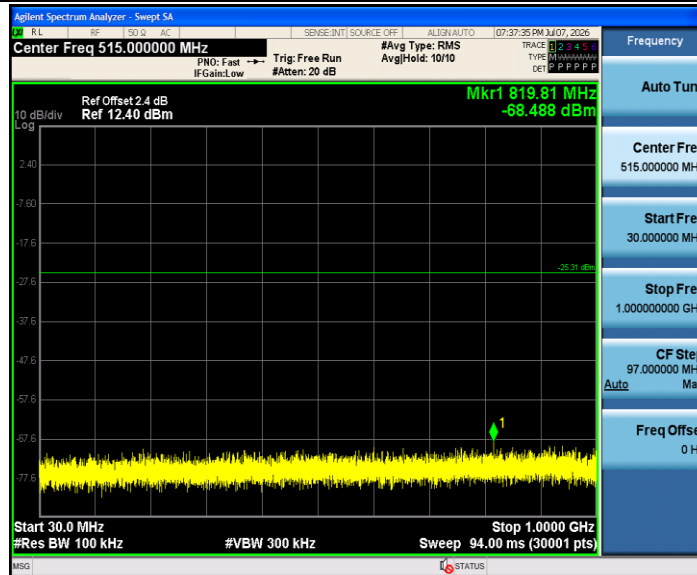
2DH5_Ant1_2441_1000~26500



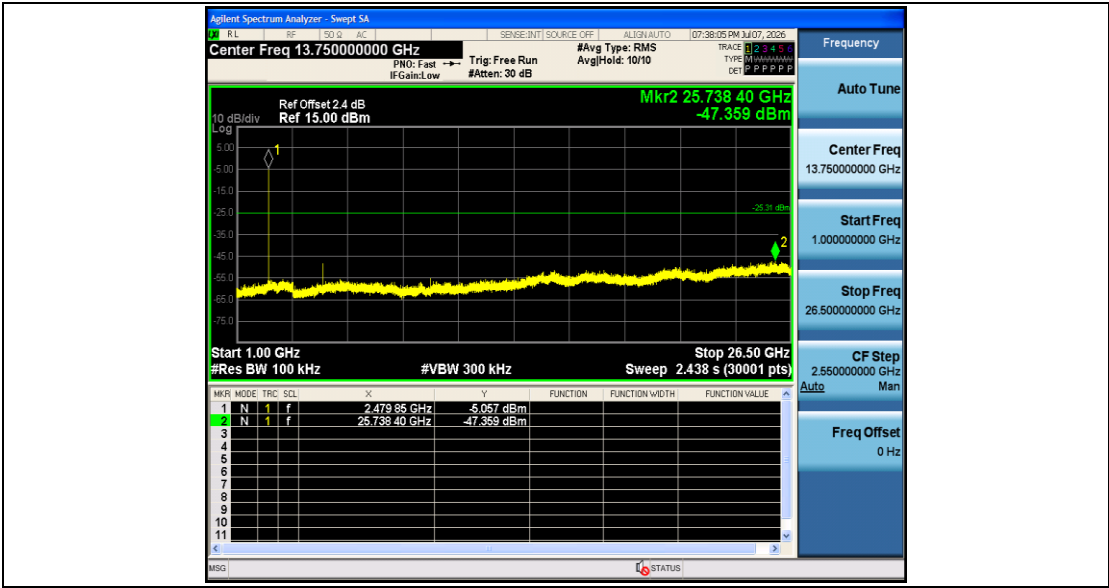
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

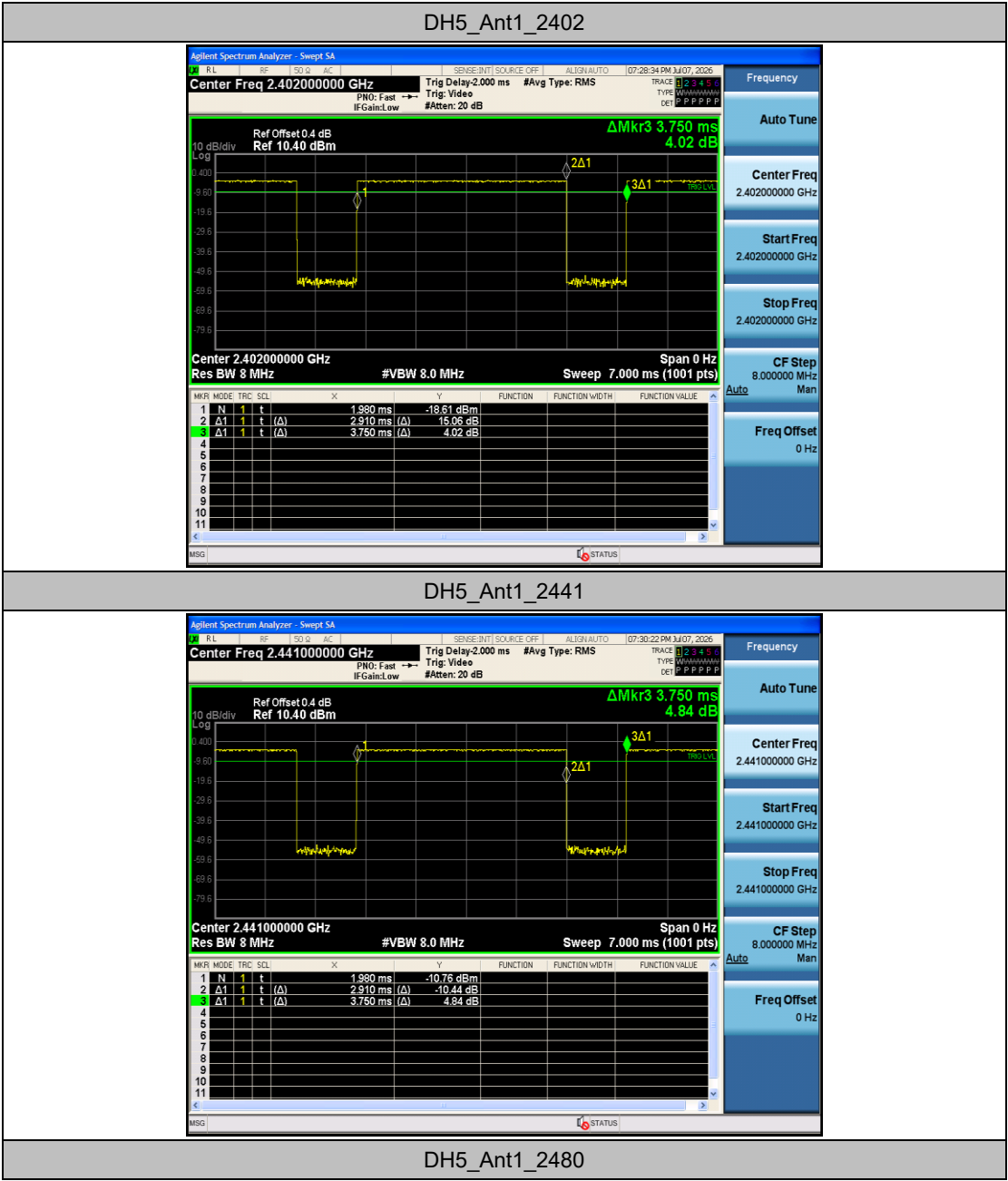


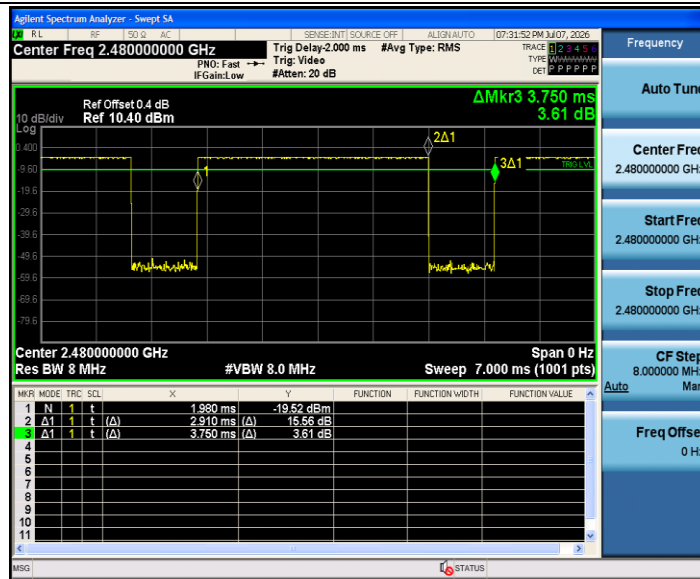
Appendix I: Duty Cycle

Test Result

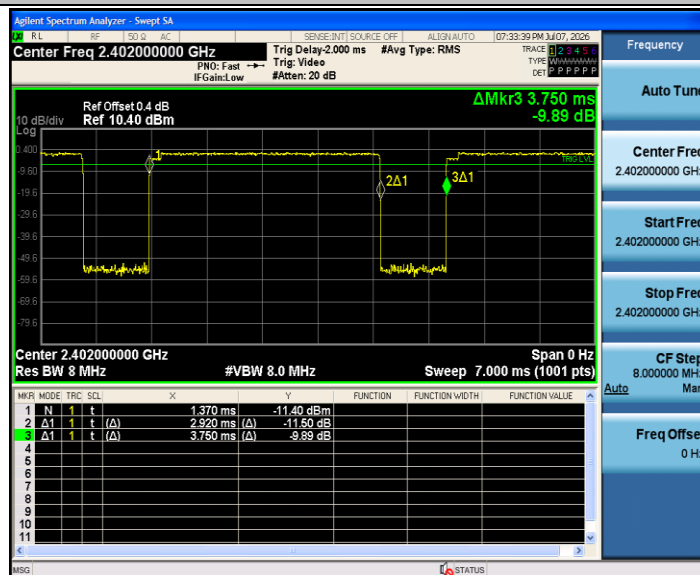
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.74	78.07	1.08	---	---
		2480	2.92	3.75	77.87	1.09	---	---

Test Graphs

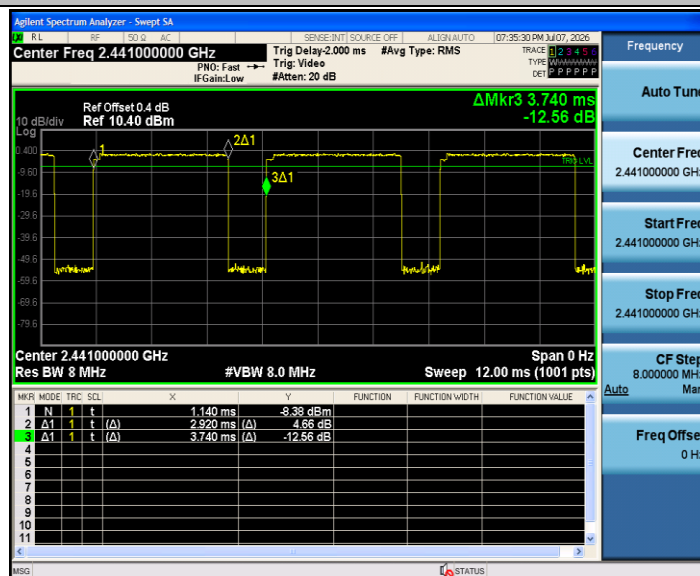




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

