

FCC Appendix RF Test Data for BT

FCC ID : 2BMF7-NX2

Company : Petrosoft LLC

EUT : POS Terminal

Model Number : NX2

Report No. : CTA26062500401

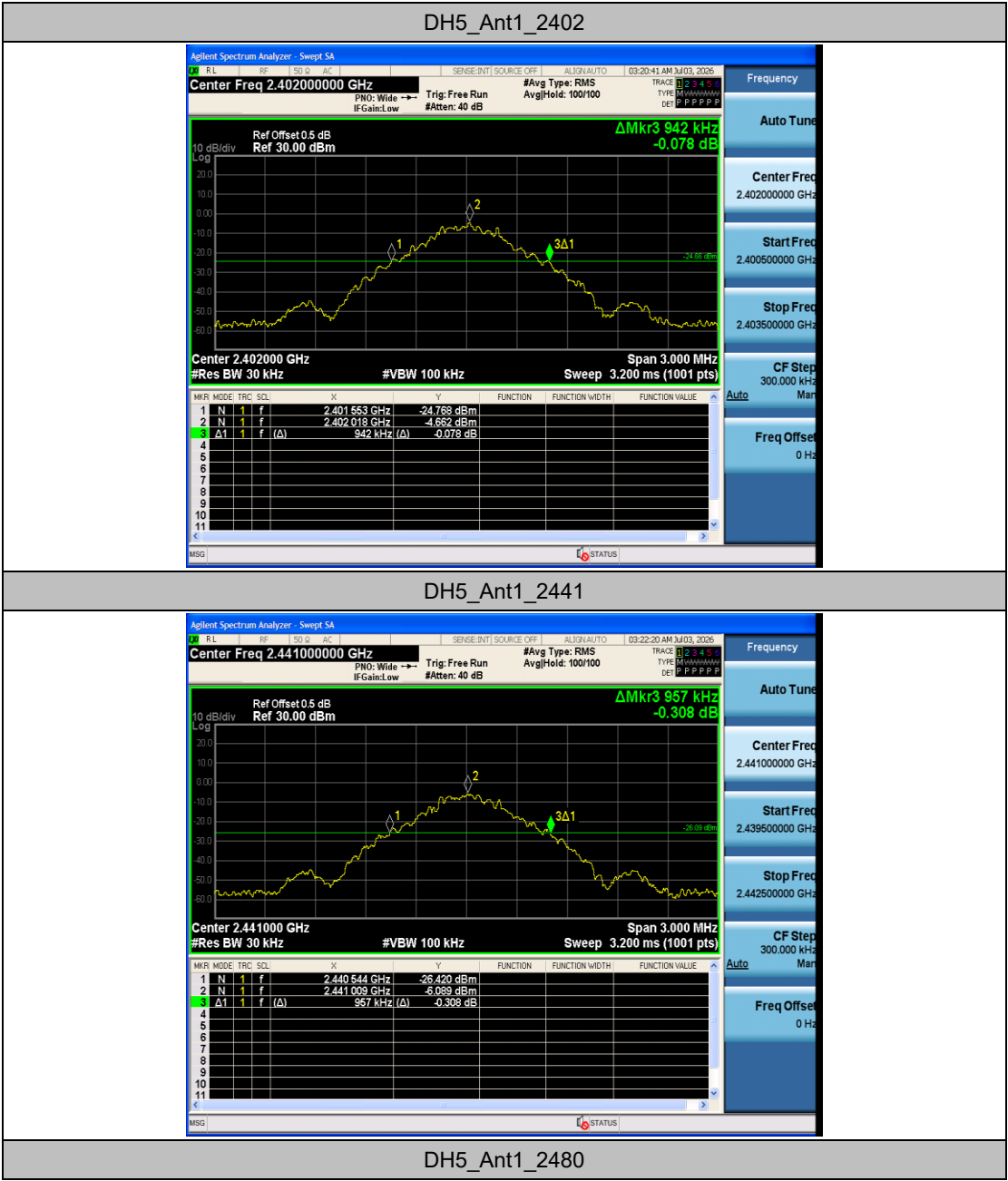
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.553	2402.495	---	---
		2441	0.957	2440.544	2441.501	---	---
		2480	0.942	2479.550	2480.492	---	---
2DH5	Ant1	2402	1.287	2401.376	2402.663	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.284	2479.379	2480.663	---	---
3DH5	Ant1	2402	1.269	2401.364	2402.633	---	---
		2441	1.293	2440.364	2441.657	---	---
		2480	1.287	2479.370	2480.657	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

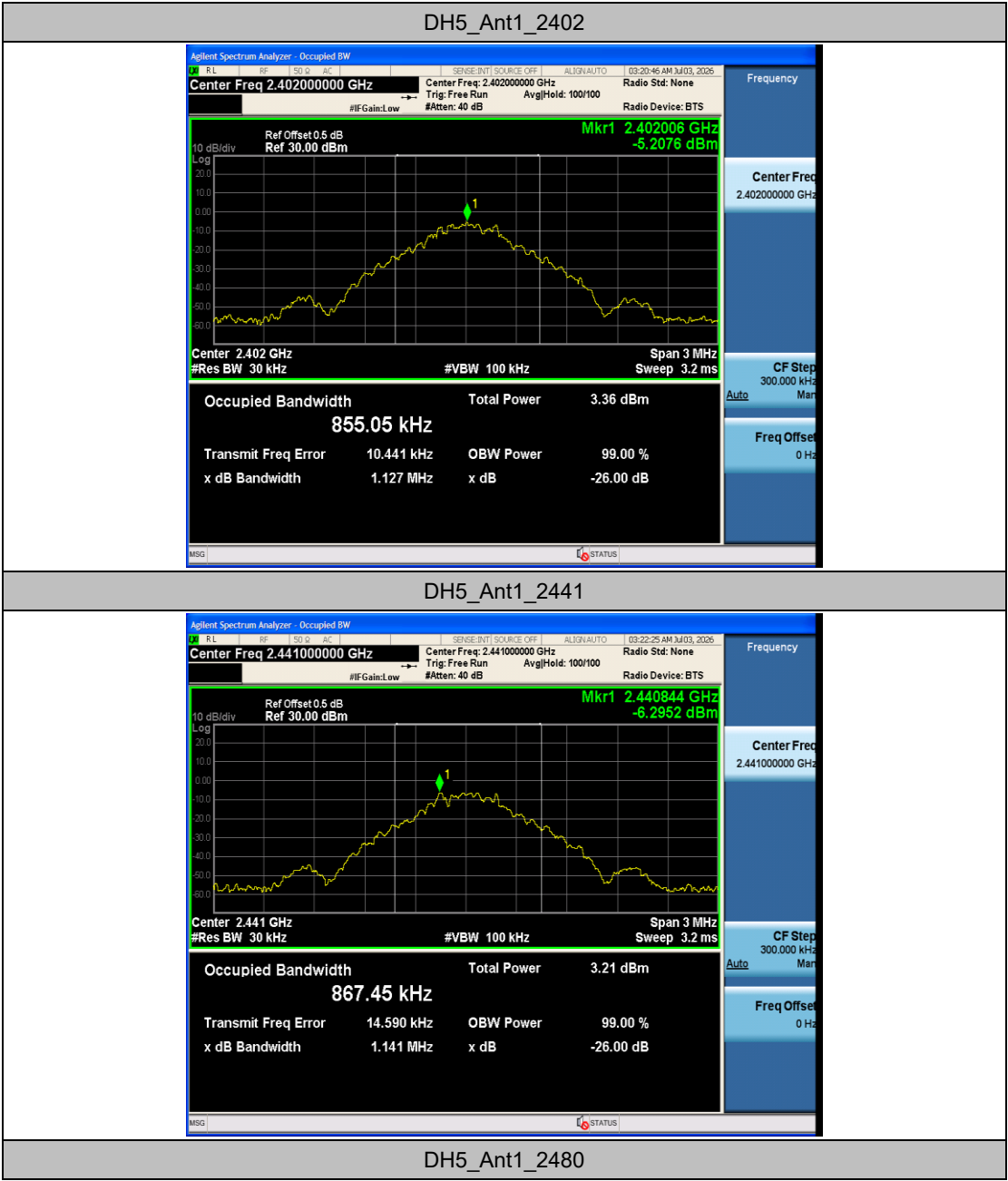


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85505	2401.5829	2402.4380	---	---
		2441	0.86745	2440.5809	2441.4483	---	---
		2480	0.85723	2479.5835	2480.4407	---	---
2DH5	Ant1	2402	1.1815	2401.4201	2402.6016	---	---
		2441	1.1808	2440.4185	2441.5993	---	---
		2480	1.1901	2479.4150	2480.6051	---	---
3DH5	Ant1	2402	1.1903	2401.4195	2402.6098	---	---
		2441	1.1888	2440.4178	2441.6066	---	---
		2480	1.1857	2479.4190	2480.6047	---	---

Test Graphs





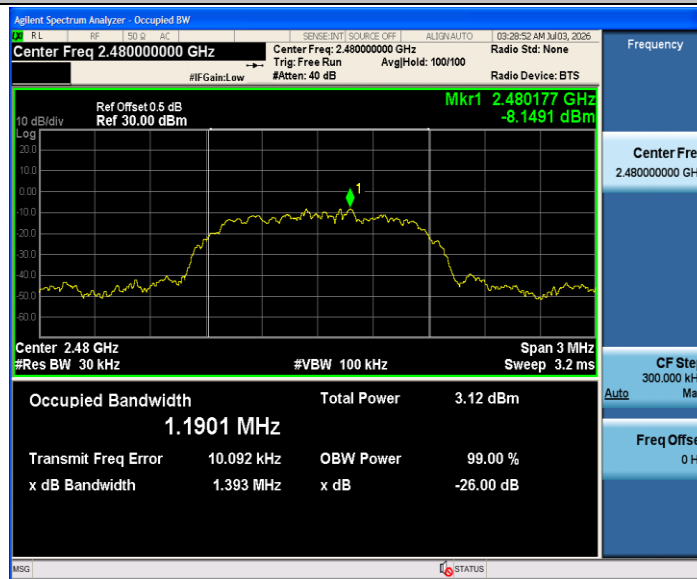
2DH5_Ant1_2402



2DH5_Ant1_2441



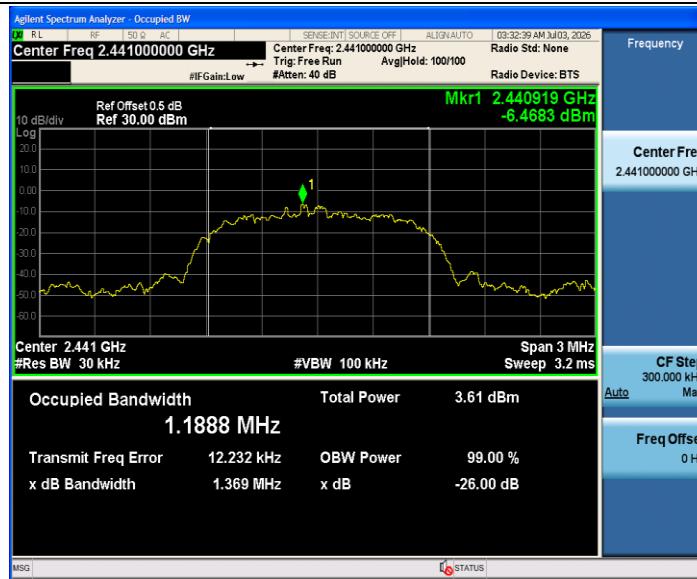
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_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	-3.27	≤20.97	PASS
		2441	-3.19	≤20.97	PASS
		2480	-3.42	≤20.97	PASS
2DH5	Ant1	2402	-0.57	≤20.97	PASS
		2441	-0.62	≤20.97	PASS
		2480	-0.84	≤20.97	PASS
3DH5	Ant1	2402	-0.15	≤20.97	PASS
		2441	-0.27	≤20.97	PASS
		2480	-0.49	≤20.97	PASS

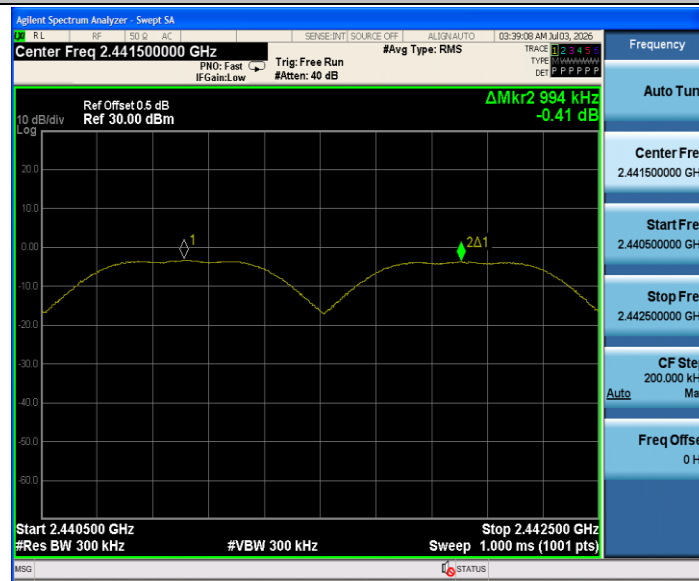
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.957	PASS
2DH5	Ant1	Hop	1.158	≥ 0.858	PASS
3DH5	Ant1	Hop	0.98	≥ 0.862	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

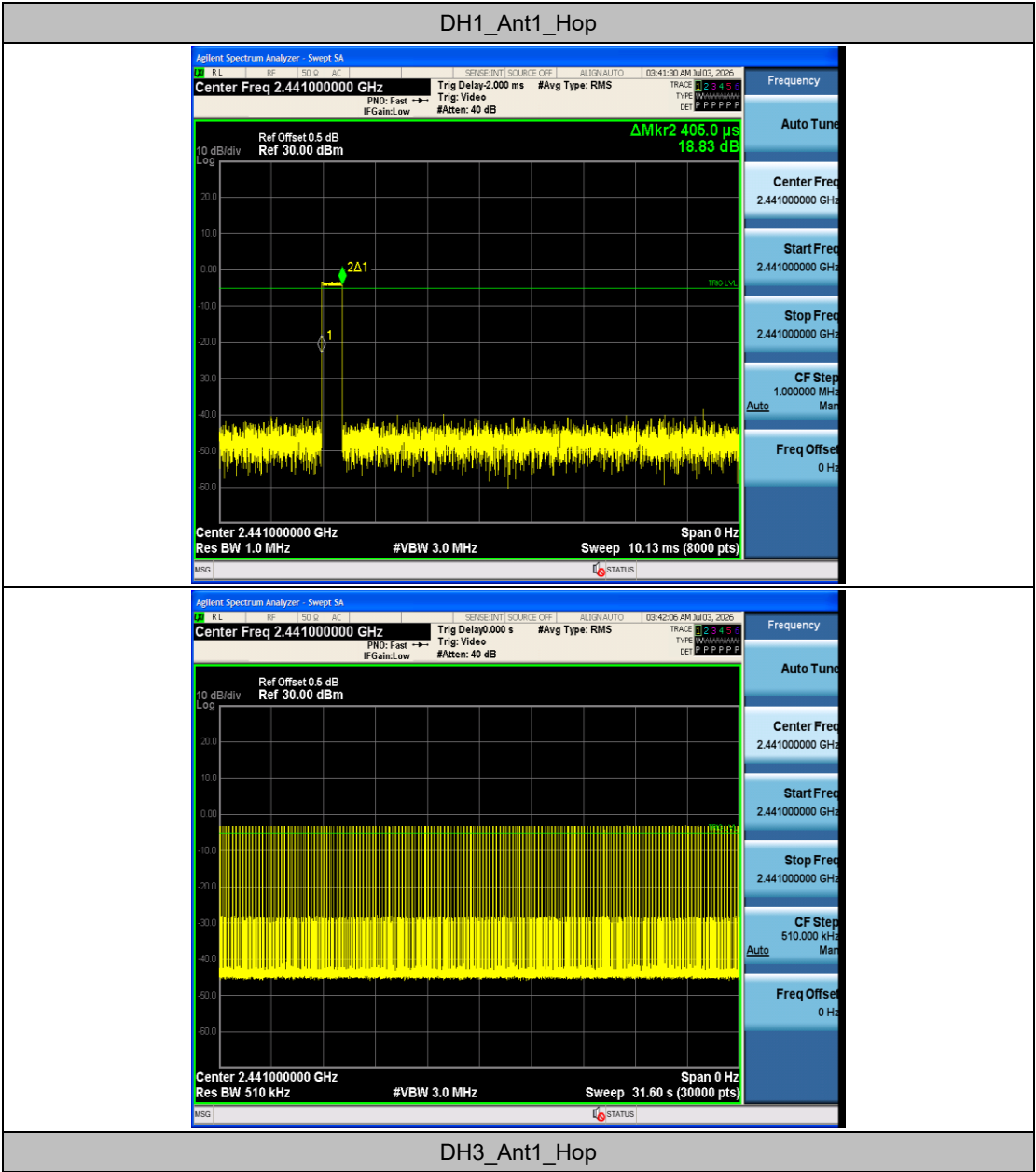


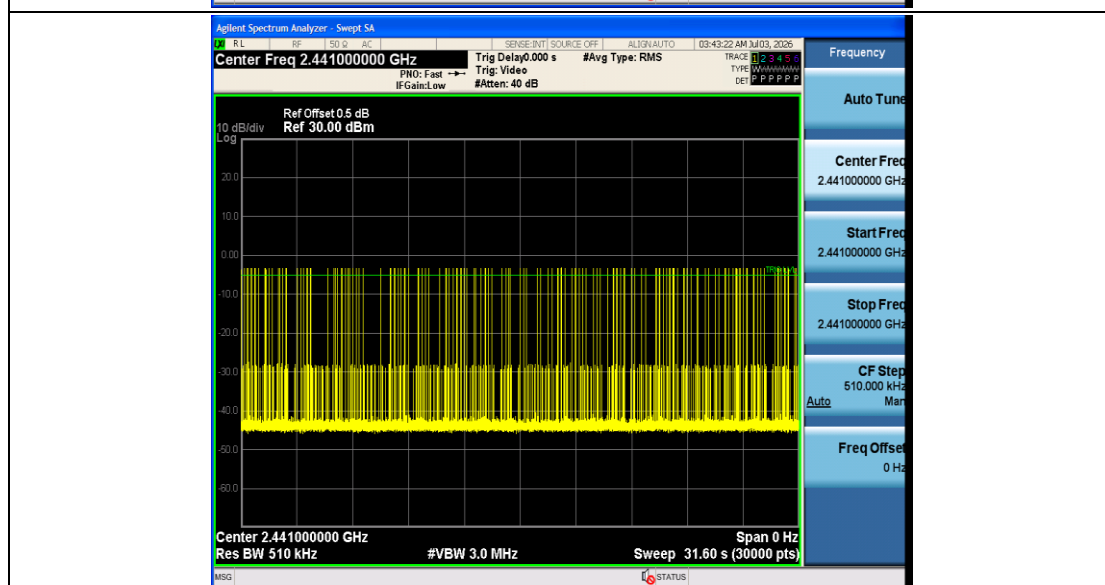
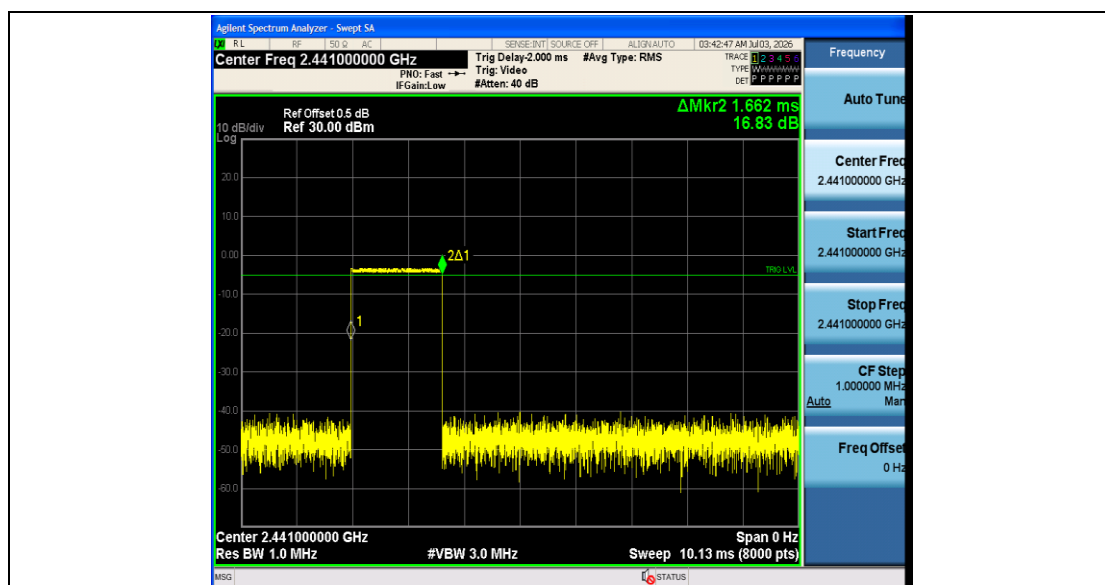
Appendix E: Time of occupancy

Test Result

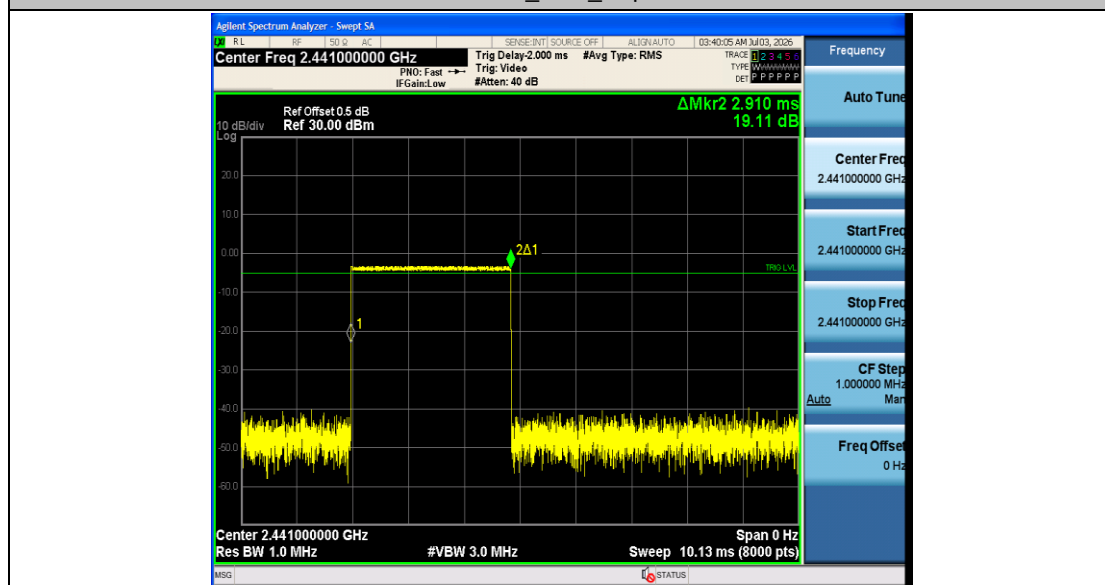
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	317	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.662	156	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.910	103	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.414	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	161	0.268	≤0.4	PASS
2DH5	Ant1	Hop	2.916	108	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	157	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.917	108	0.315	≤0.4	PASS

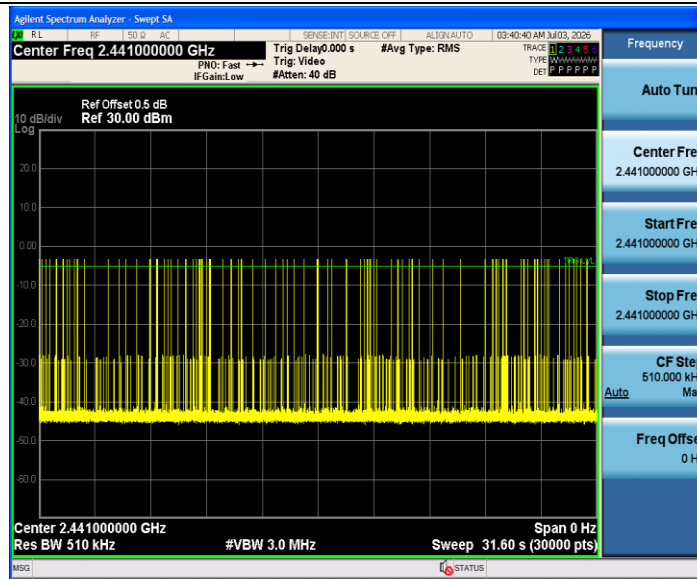
Test Graphs



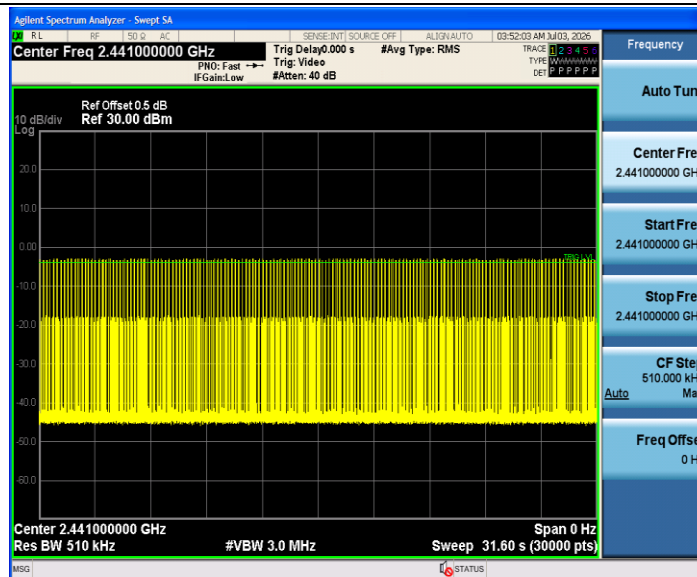
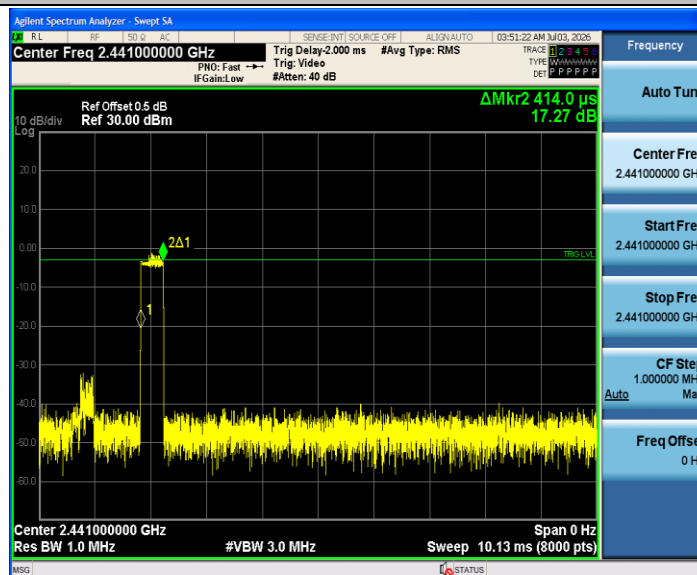


DH5_Ant1_Hop

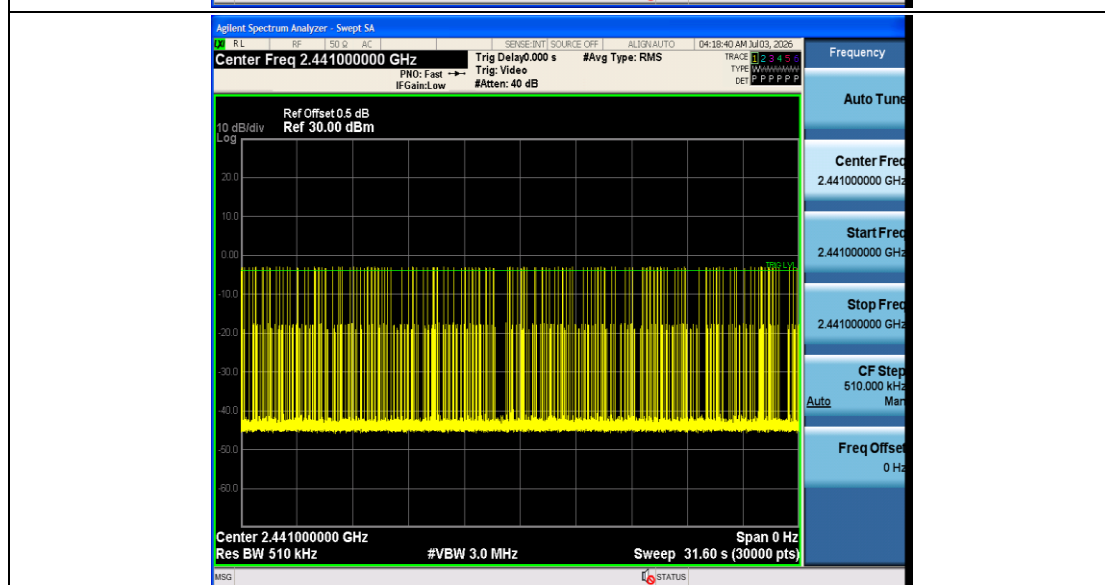
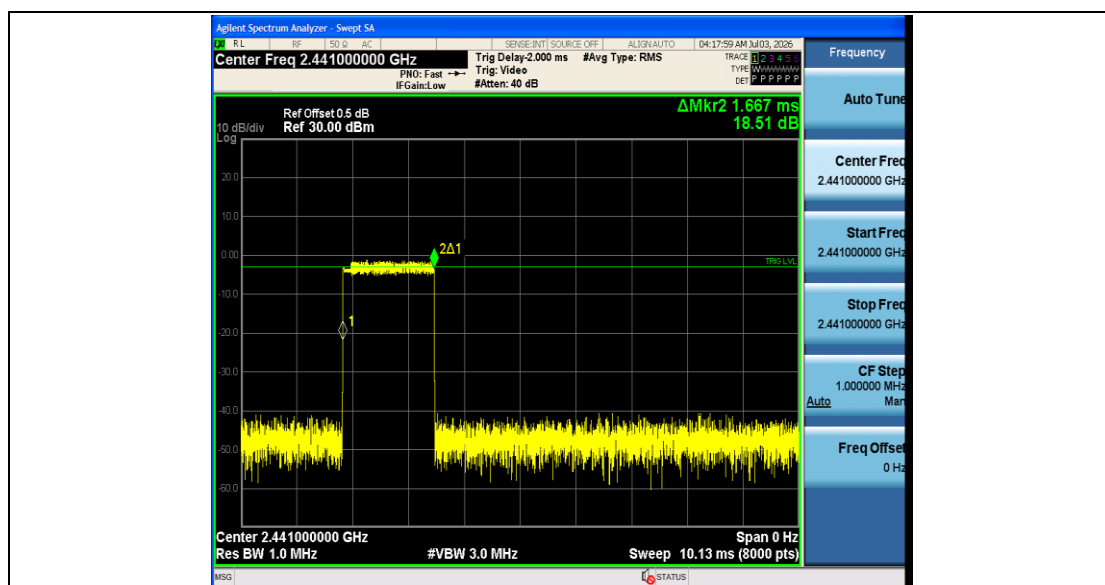




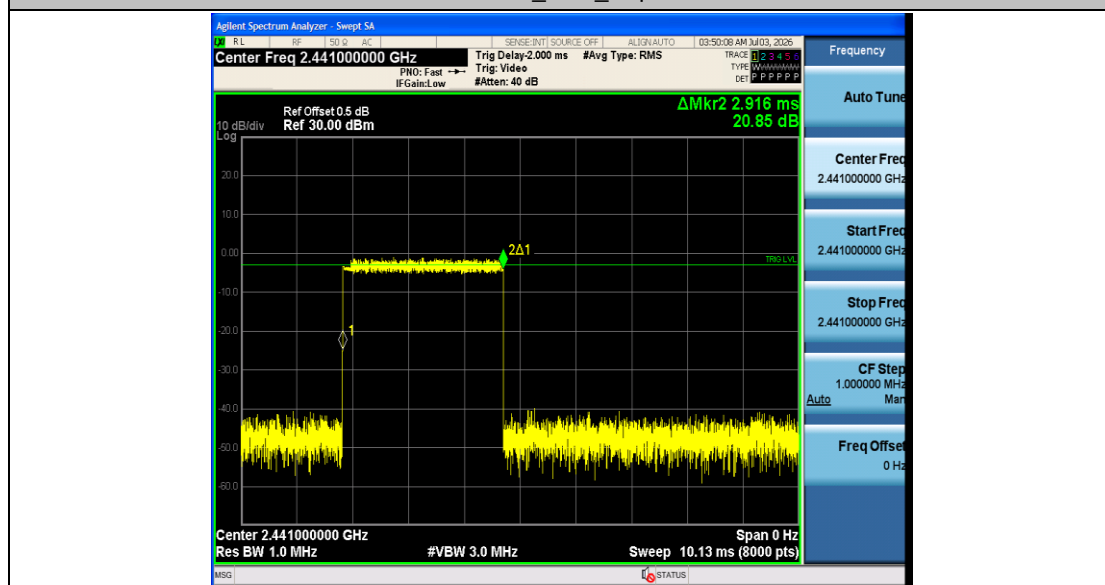
2DH1_Ant1_Hop

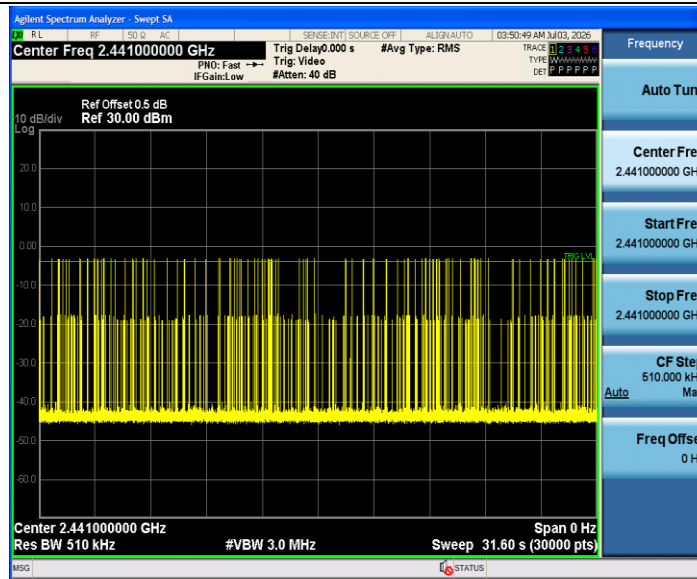


2DH3_Ant1_Hop

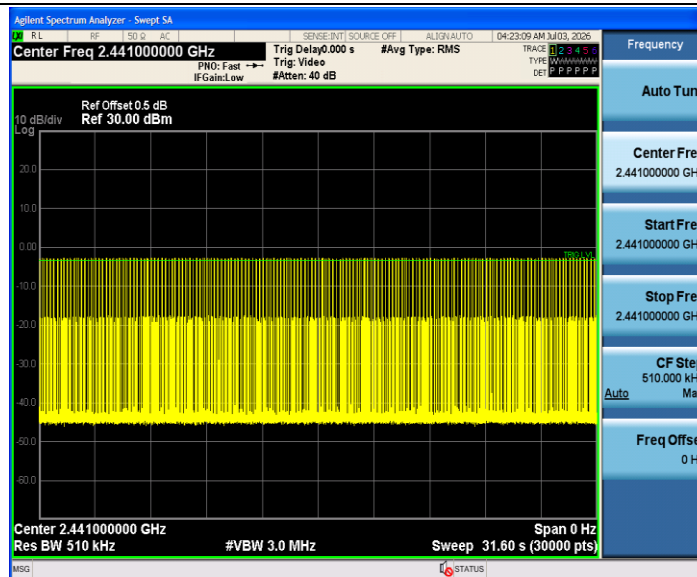
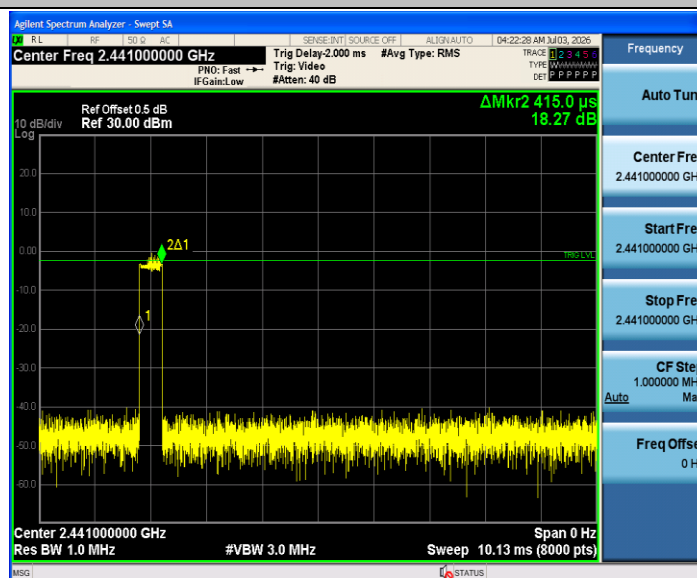


2DH5_Ant1_Hop

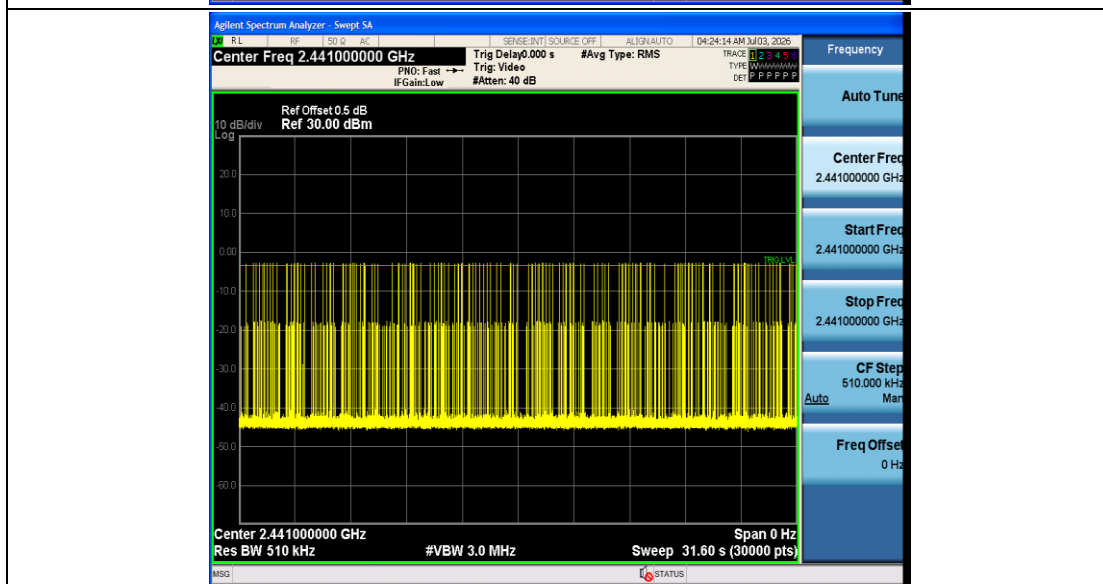
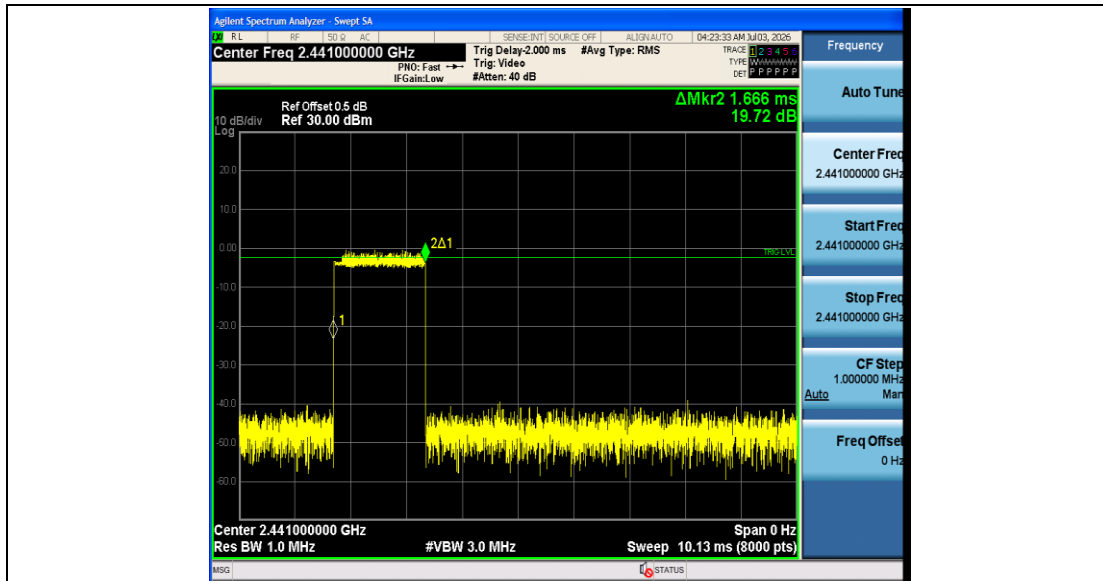




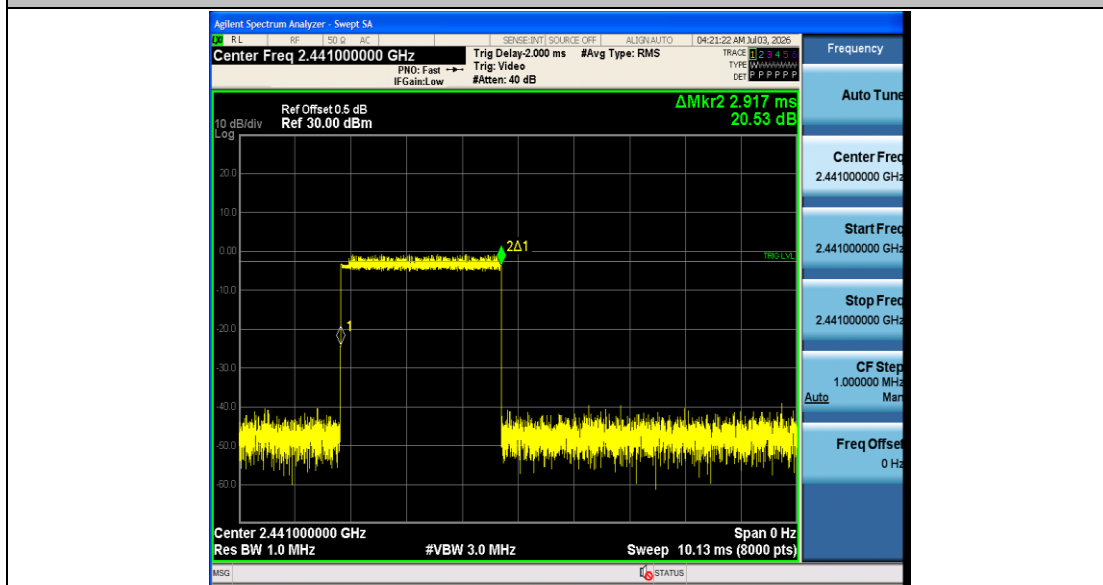
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

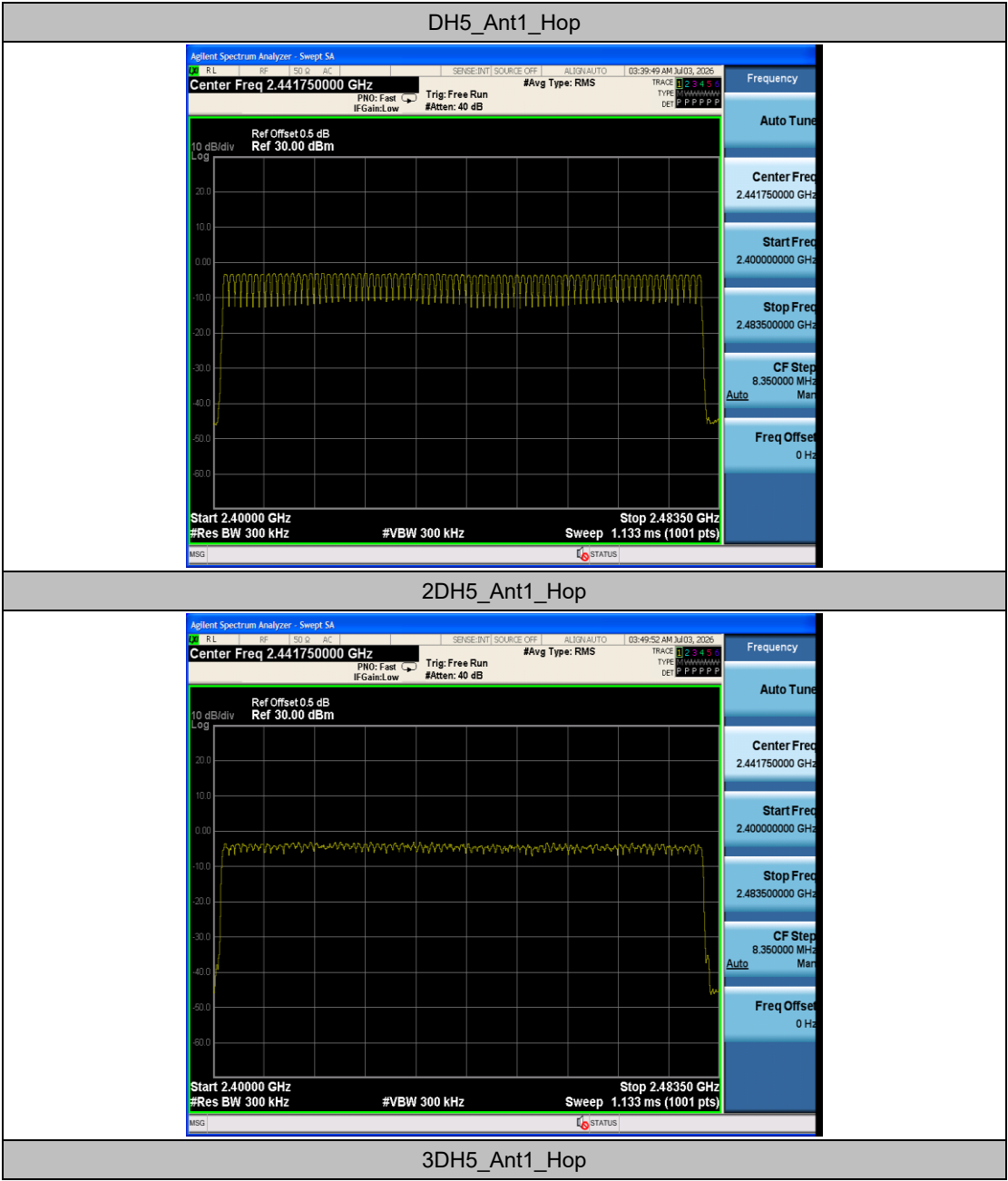


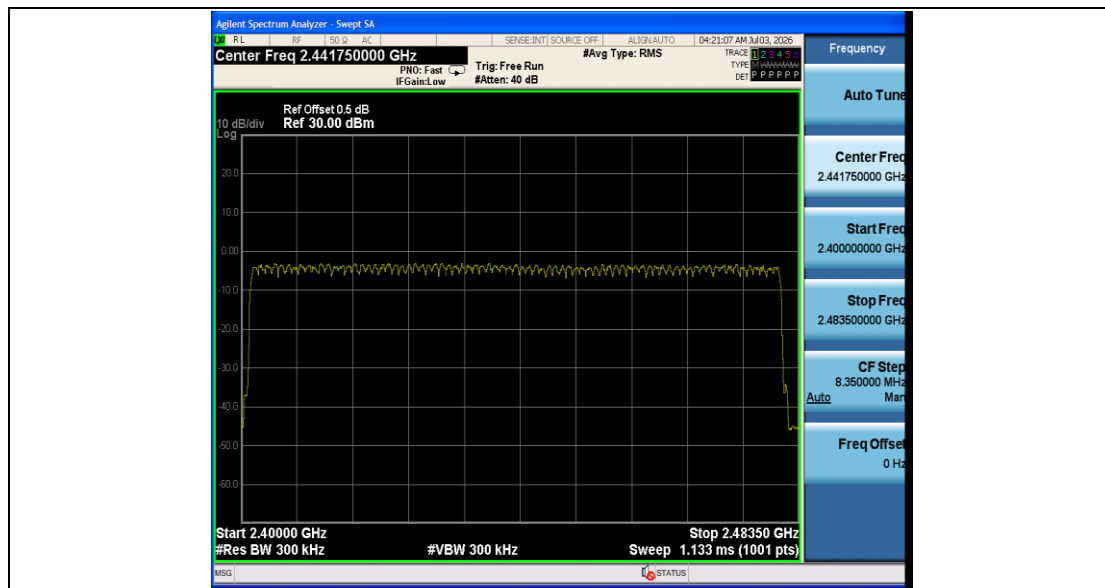
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs





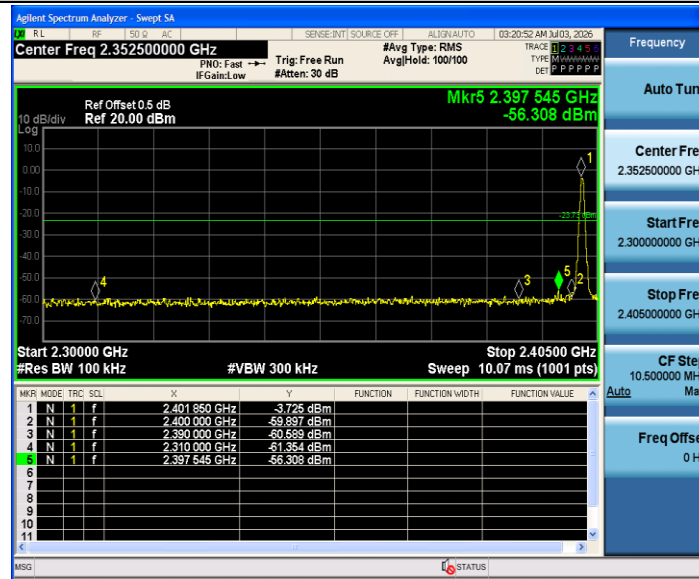
Appendix G: Band edge measurements

Test Result

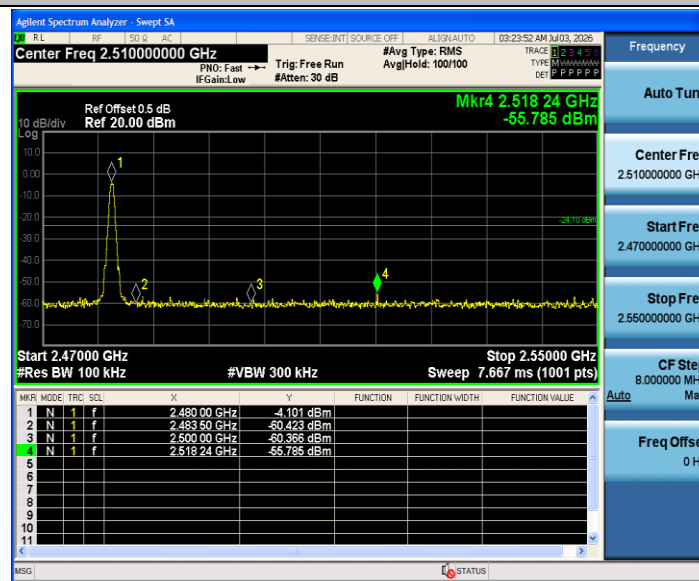
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.73	-56.31	≤ -23.73	PASS
		High	2480	-4.10	-55.79	≤ -24.1	PASS
		Low	Hop_2402	-4.29	-57.79	≤ -24.29	PASS
		High	Hop_2480	-4.47	-58.1	≤ -24.47	PASS
2DH5	Ant1	Low	2402	-4.16	-56.53	≤ -24.16	PASS
		High	2480	-4.75	-57.48	≤ -24.75	PASS
		Low	Hop_2402	-3.37	-57.09	≤ -23.37	PASS
		High	Hop_2480	-6.17	-56.25	≤ -26.17	PASS
3DH5	Ant1	Low	2402	-4.19	-57.83	≤ -24.19	PASS
		High	2480	-3.74	-56.07	≤ -23.74	PASS
		Low	Hop_2402	-4.51	-57.91	≤ -24.51	PASS
		High	Hop_2480	-4.84	-57.42	≤ -24.84	PASS

Test Graphs

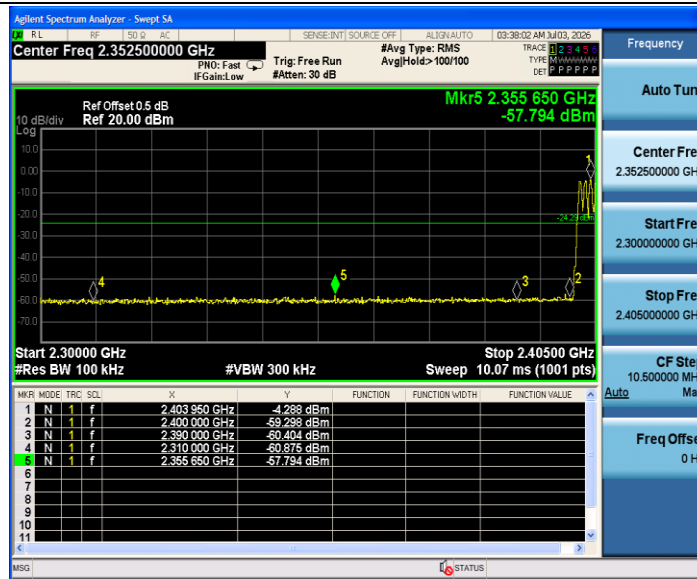
DH5_Ant1_Low_2402



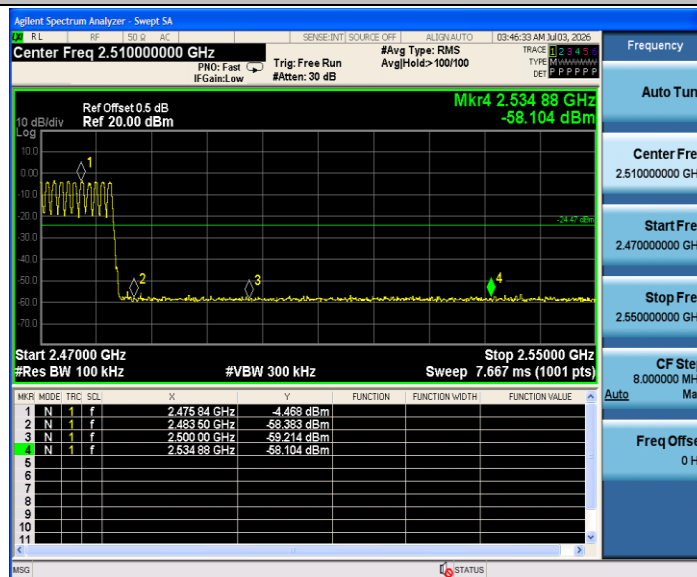
DH5_Ant1_High_2480



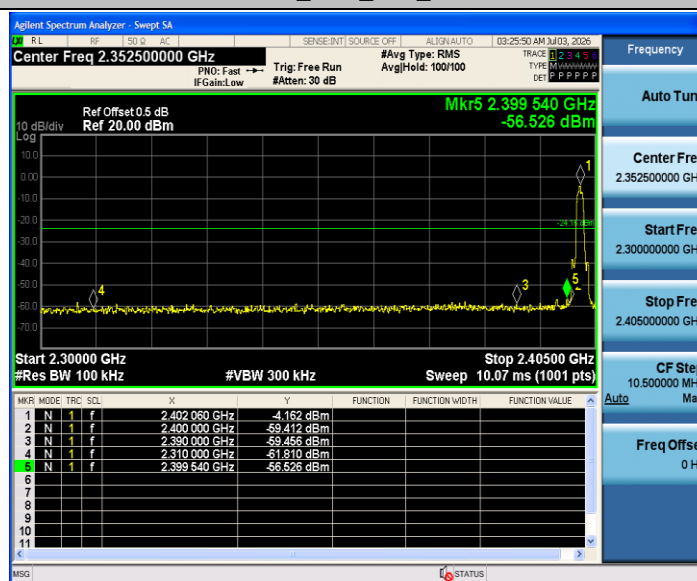
DH5_Ant1_Low_Hop_2402



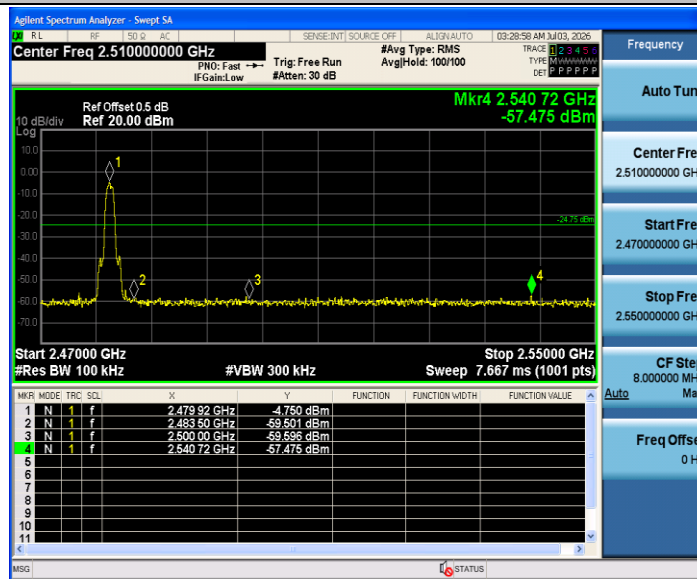
DH5_Ant1_High_Hop_2480



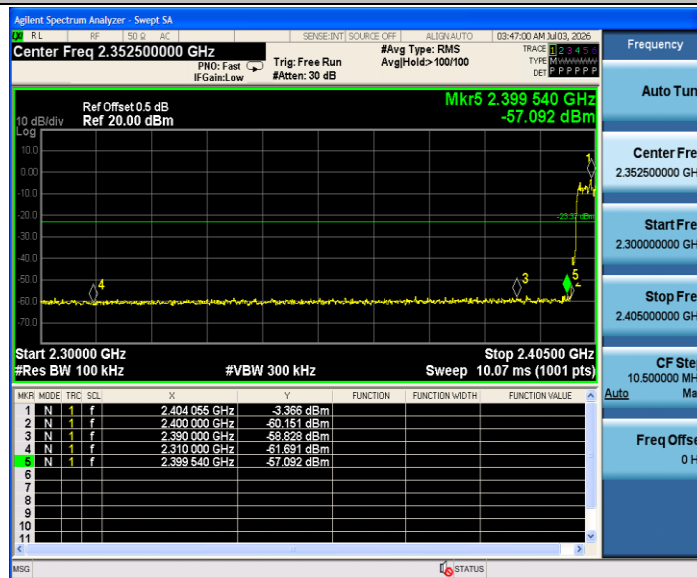
2DH5_Ant1_Low_2402



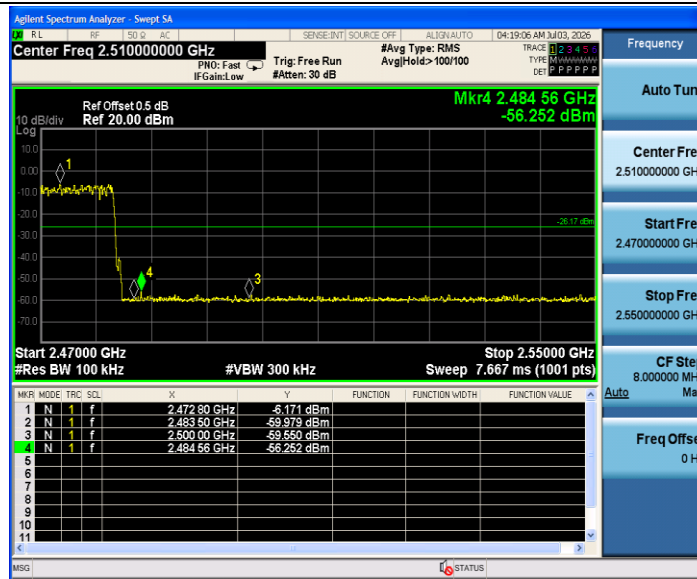
2DH5_Ant1_High_2480



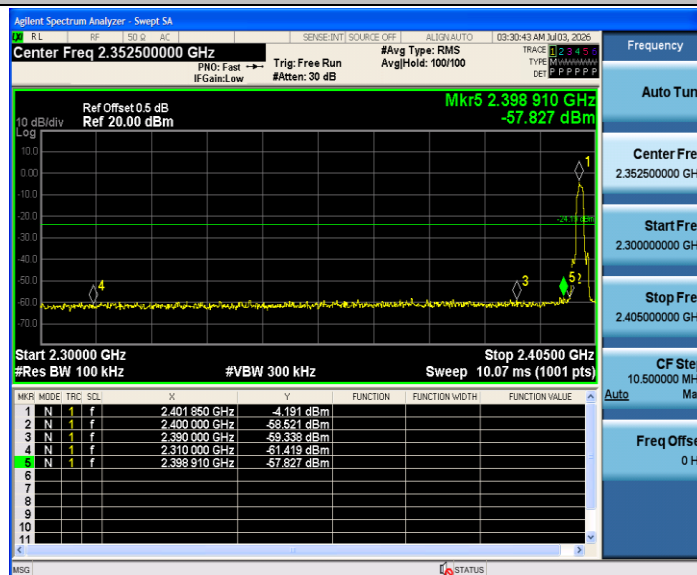
2DH5_Ant1_Low_Hop_2402



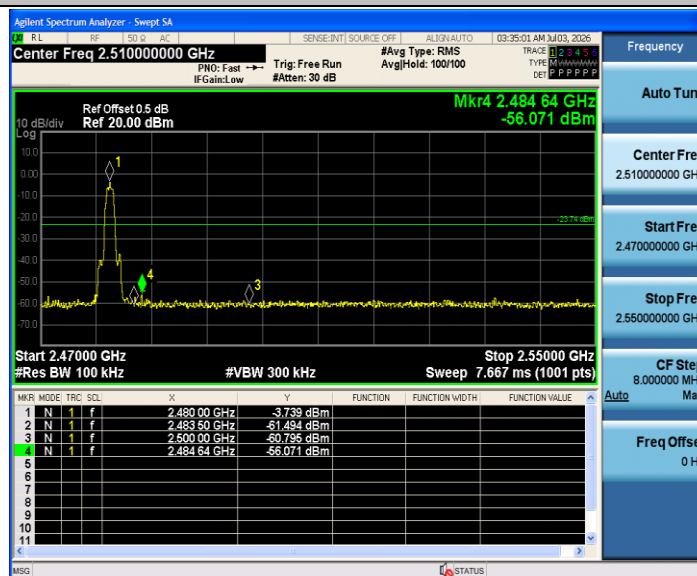
2DH5_Ant1_High_Hop_2480



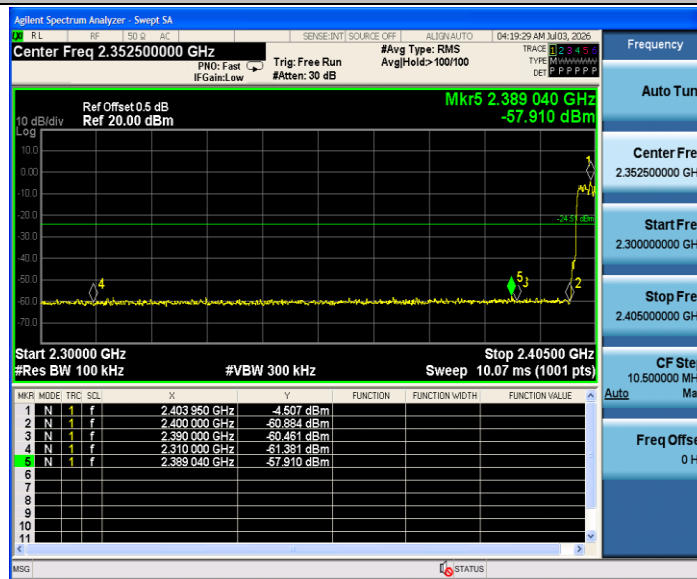
3DH5_Ant1_Low_2402



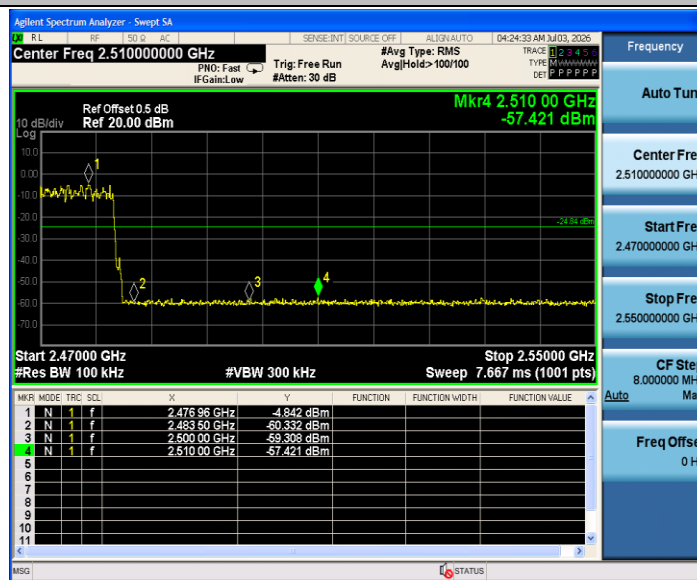
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

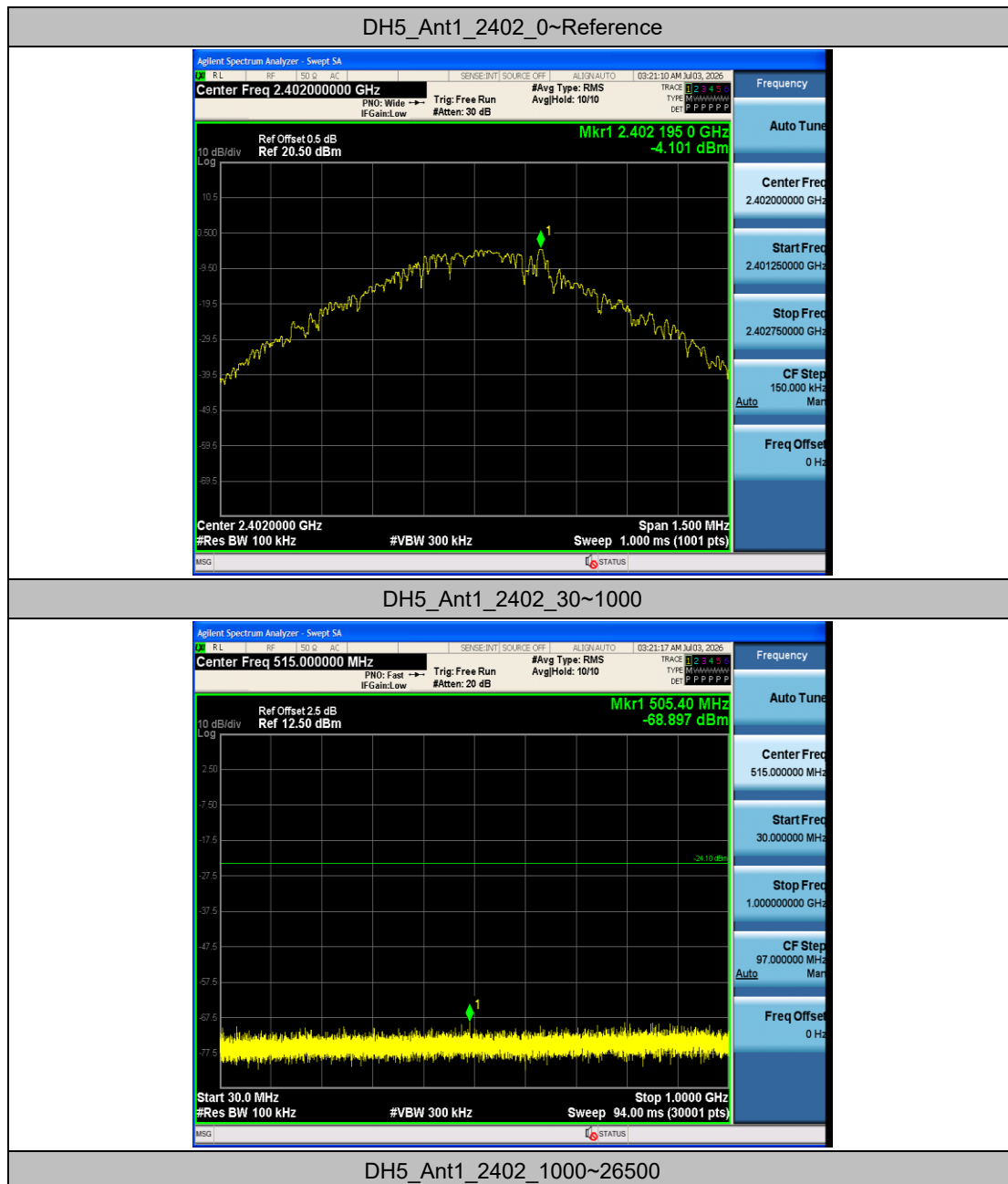


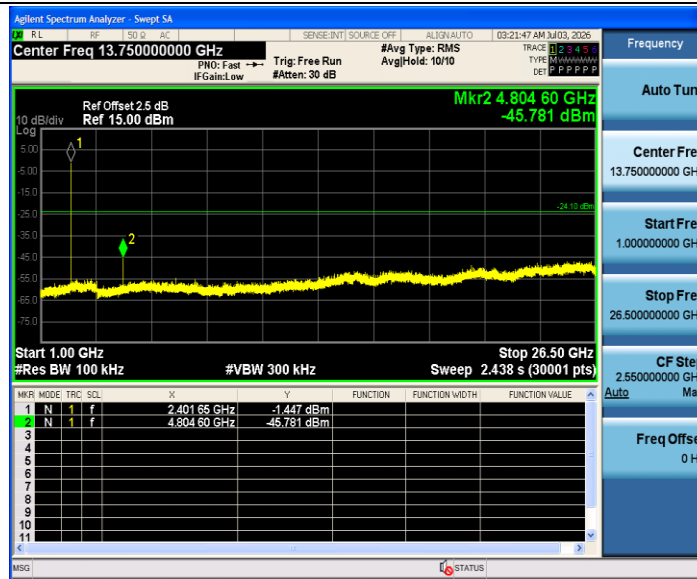
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.10	-4.10	---	PASS
			30~1000	-4.10	-68.9	≤-24.1	PASS
			1000~26500	-4.10	-45.78	≤-24.1	PASS
		2441	Reference	-4.70	-4.70	---	PASS
			30~1000	-4.70	-68.6	≤-24.7	PASS
			1000~26500	-4.70	-45.7	≤-24.7	PASS
		2480	Reference	-4.02	-4.02	---	PASS
			30~1000	-4.02	-68.72	≤-24.02	PASS
			1000~26500	-4.02	-46.71	≤-24.02	PASS
2DH5	Ant1	2402	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-68.79	≤-25.11	PASS
			1000~26500	-5.11	-46.31	≤-25.11	PASS
		2441	Reference	-4.18	-4.18	---	PASS
			30~1000	-4.18	-68.47	≤-24.18	PASS
			1000~26500	-4.18	-46.63	≤-24.18	PASS
		2480	Reference	-7.20	-7.20	---	PASS
			30~1000	-7.20	-68.79	≤-27.2	PASS
			1000~26500	-7.20	-46.58	≤-27.2	PASS
3DH5	Ant1	2402	Reference	-4.59	-4.59	---	PASS
			30~1000	-4.59	-69.58	≤-24.59	PASS
			1000~26500	-4.59	-46.61	≤-24.59	PASS
		2441	Reference	-5.71	-5.71	---	PASS
			30~1000	-5.71	-68.84	≤-25.71	PASS
			1000~26500	-5.71	-46.58	≤-25.71	PASS
		2480	Reference	-6.26	-6.26	---	PASS
			30~1000	-6.26	-68.91	≤-26.26	PASS
			1000~26500	-6.26	-46.77	≤-26.26	PASS

Test Graphs

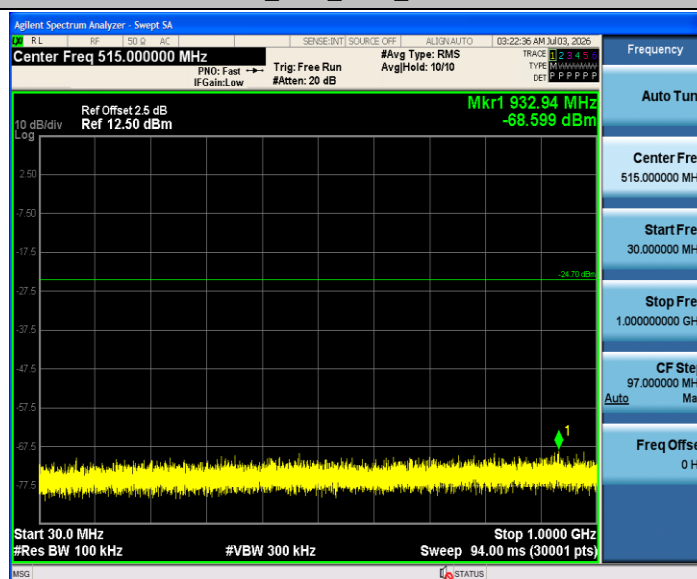




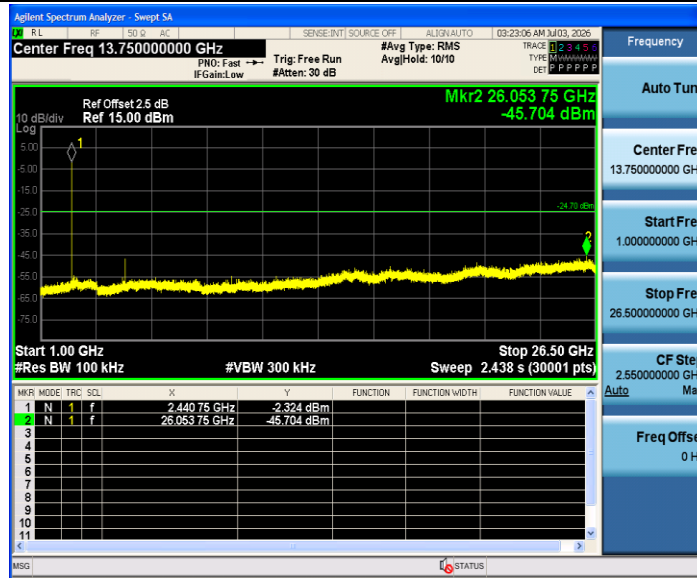
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



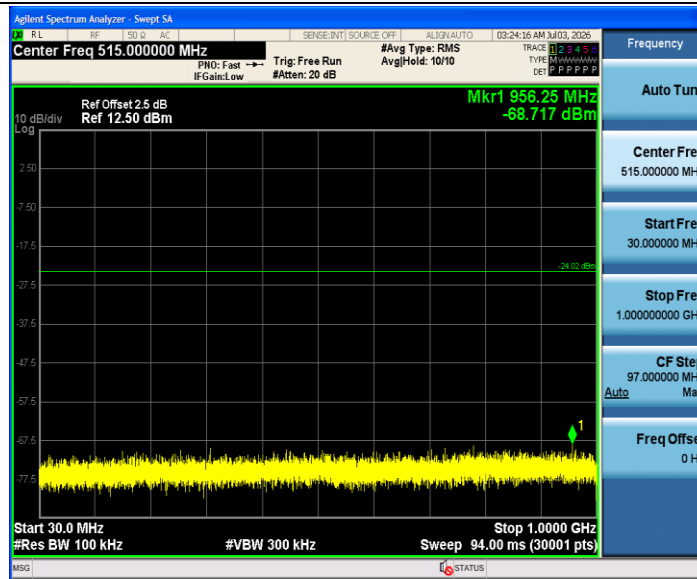
DH5_Ant1_2441_1000~26500



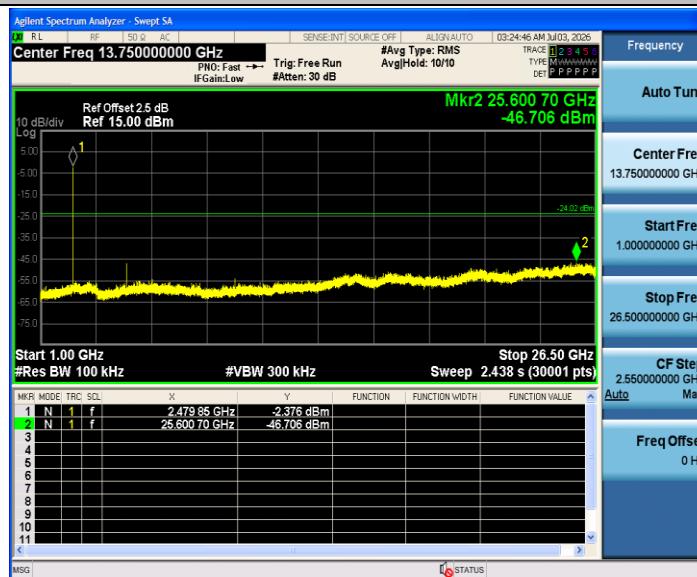
DH5_Ant1_2480_0~Reference



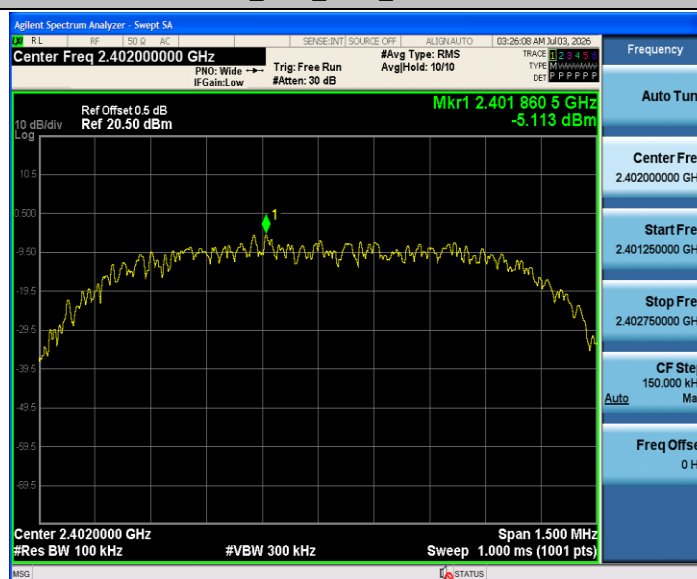
DH5_Ant1_2480_30~1000



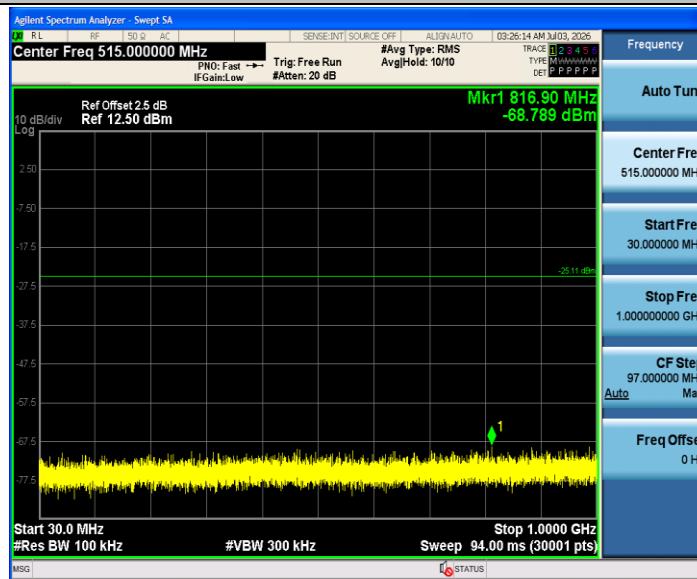
DH5_Ant1_2480_1000~26500



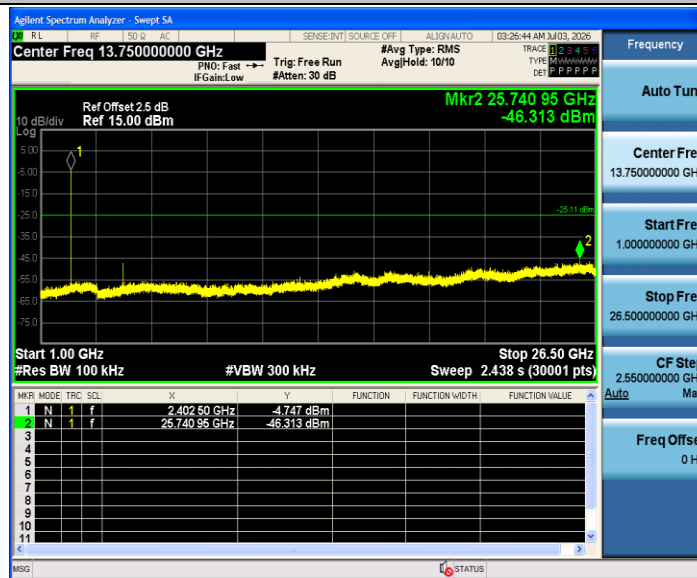
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference