

FCC Appendix RF Test Data for BT

FCC ID : 2ANYC-RF5520

Company : Guangzhou Netum Electronic Technology Co., Ltd.

EUT : Portable Barcode Reader

Model Number : RF5520

Report No. : CTA25112801802

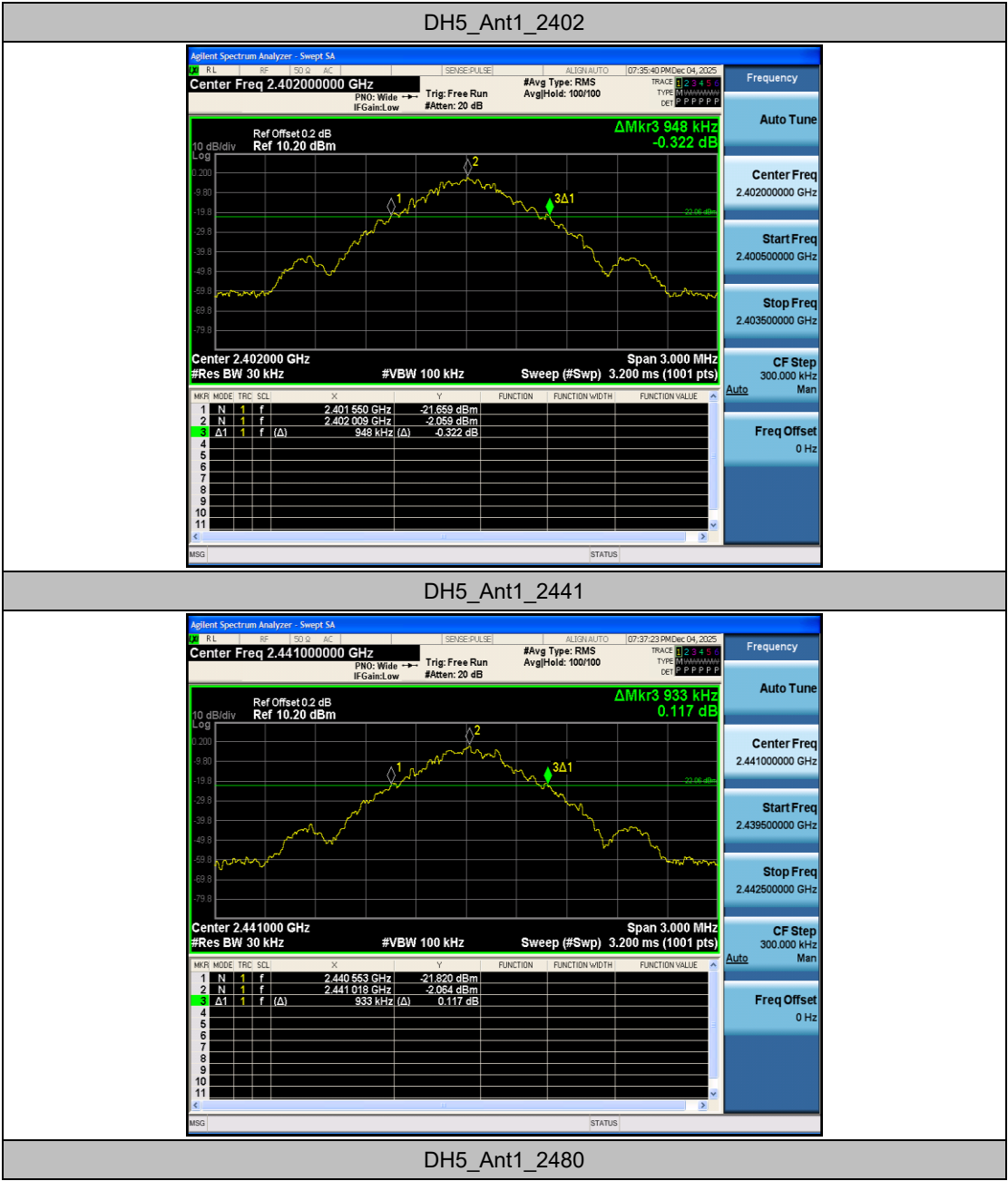
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.550	2402.498	---	---
		2441	0.933	2440.553	2441.486	---	---
		2480	0.942	2479.553	2480.495	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.311	2440.355	2441.666	---	---
		2480	1.284	2479.382	2480.666	---	---
3DH5	Ant1	2402	1.287	2401.367	2402.654	---	---
		2441	1.293	2440.361	2441.654	---	---
		2480	1.287	2479.361	2480.648	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



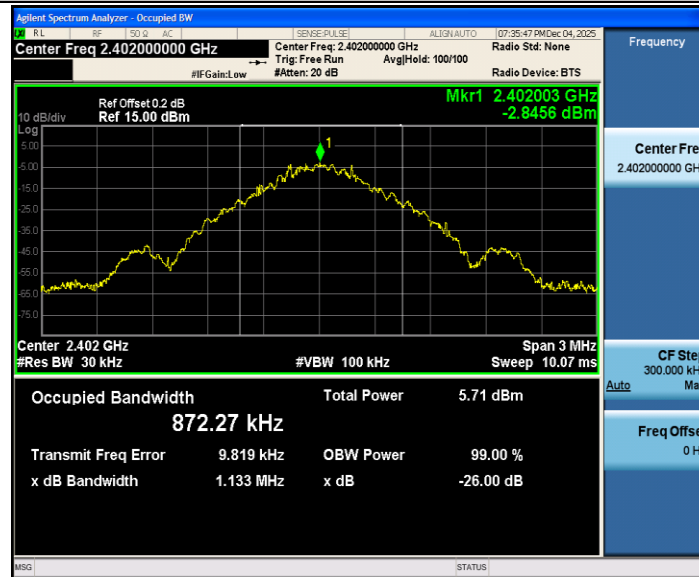
Appendix B: Occupied Channel Bandwidth

Test Result

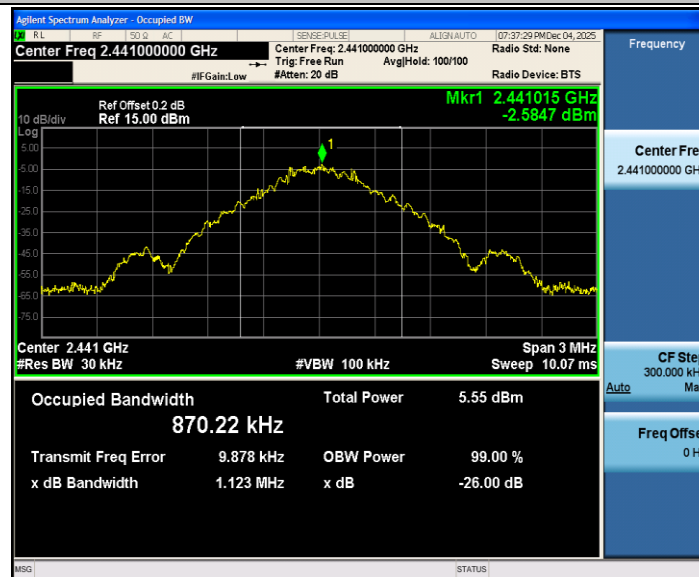
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87227	2401.5737	2402.4460	---	---
		2441	0.87022	2440.5748	2441.4450	---	---
		2480	0.86873	2479.5728	2480.4415	---	---
2DH5	Ant1	2402	1.1886	2401.4171	2402.6057	---	---
		2441	1.1922	2440.4148	2441.6070	---	---
		2480	1.1894	2479.4162	2480.6056	---	---
3DH5	Ant1	2402	1.1890	2401.4160	2402.6050	---	---
		2441	1.1886	2440.4166	2441.6052	---	---
		2480	1.1852	2479.4205	2480.6057	---	---

Test Graphs

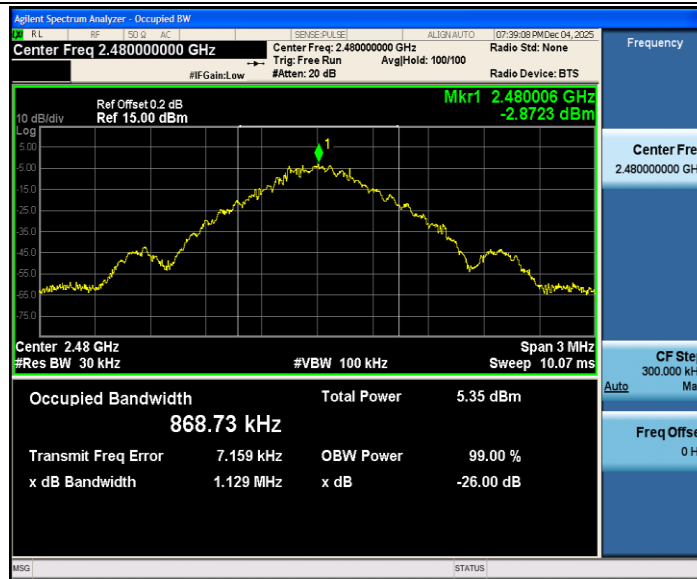
DH5_Ant1_2402



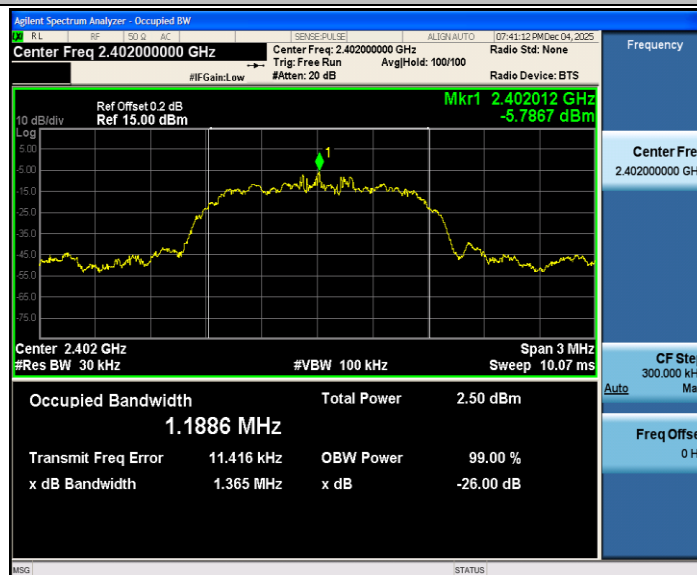
DH5_Ant1_2441



DH5_Ant1_2480



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	-0.19	≤20.97	PASS
		2441	-0.41	≤20.97	PASS
		2480	-0.47	≤20.97	PASS
2DH5	Ant1	2402	-0.99	≤20.97	PASS
		2441	-1.15	≤20.97	PASS
		2480	-1.23	≤20.97	PASS
3DH5	Ant1	2402	-0.58	≤20.97	PASS
		2441	-0.84	≤20.97	PASS
		2480	-0.90	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.948	PASS
2DH5	Ant1	Hop	0.992	≥ 0.874	PASS
3DH5	Ant1	Hop	1.028	≥ 0.862	PASS

Test Graphs



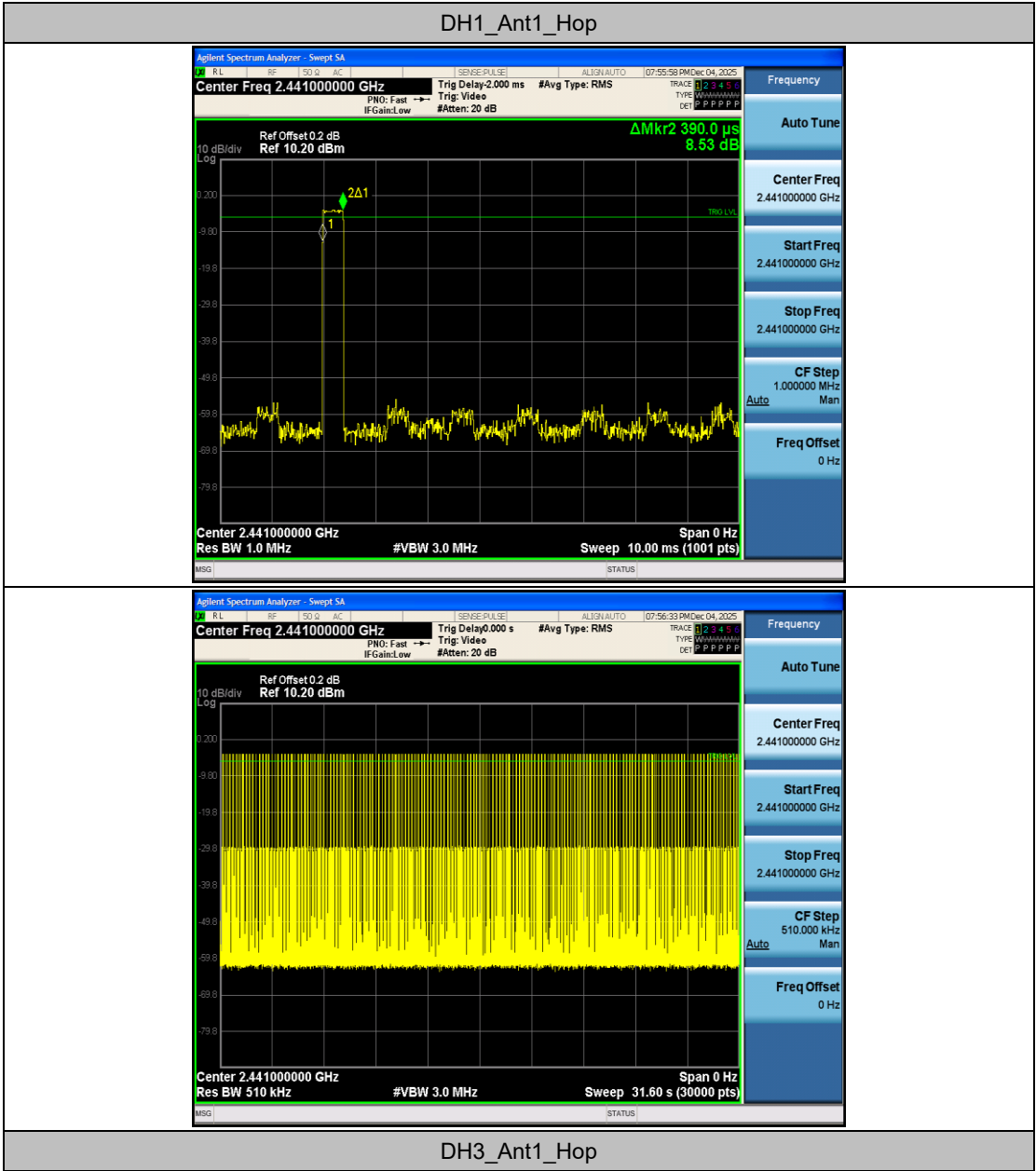


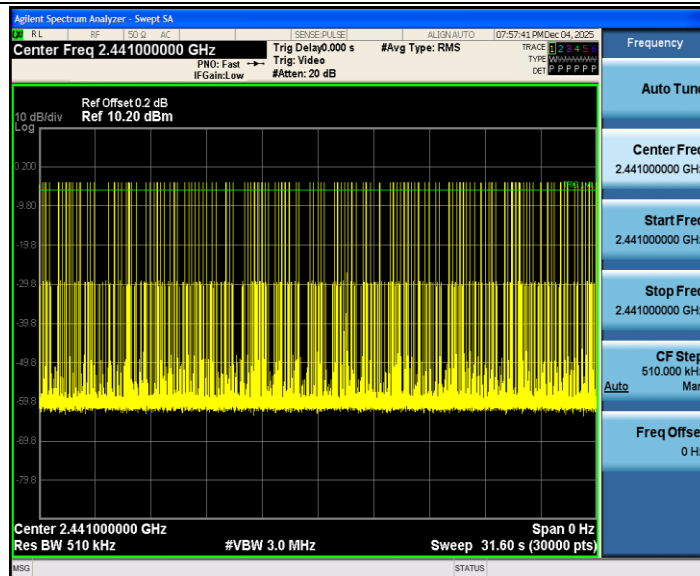
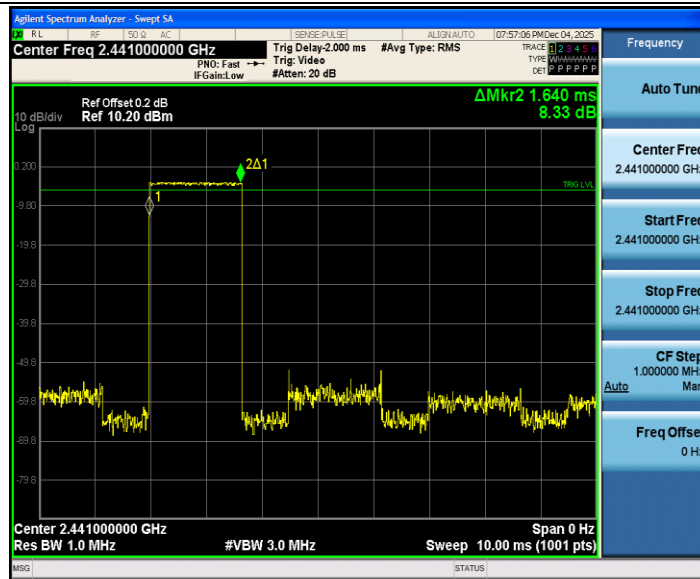
Appendix E: Time of occupancy

Test Result

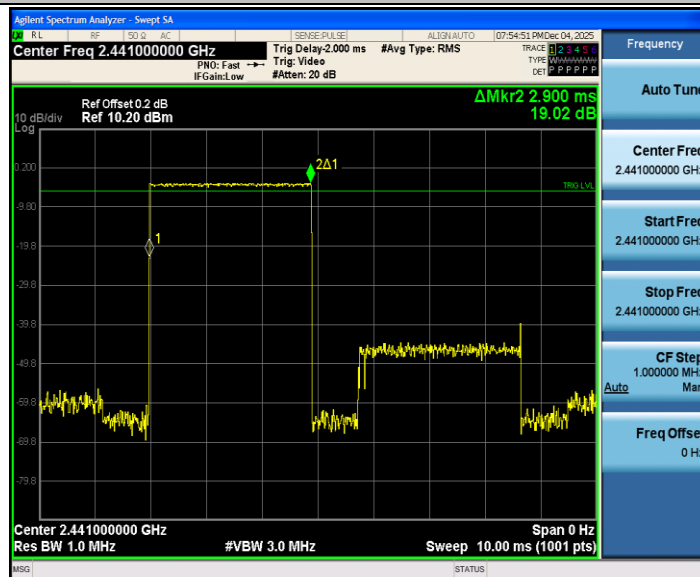
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	314	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.640	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.900	100	0.29	≤0.4	PASS
2DH1	Ant1	Hop	0.400	317	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	152	0.251	≤0.4	PASS
2DH5	Ant1	Hop	2.900	100	0.29	≤0.4	PASS
3DH1	Ant1	Hop	0.400	318	0.127	≤0.4	PASS
3DH3	Ant1	Hop	1.650	158	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.900	108	0.313	≤0.4	PASS

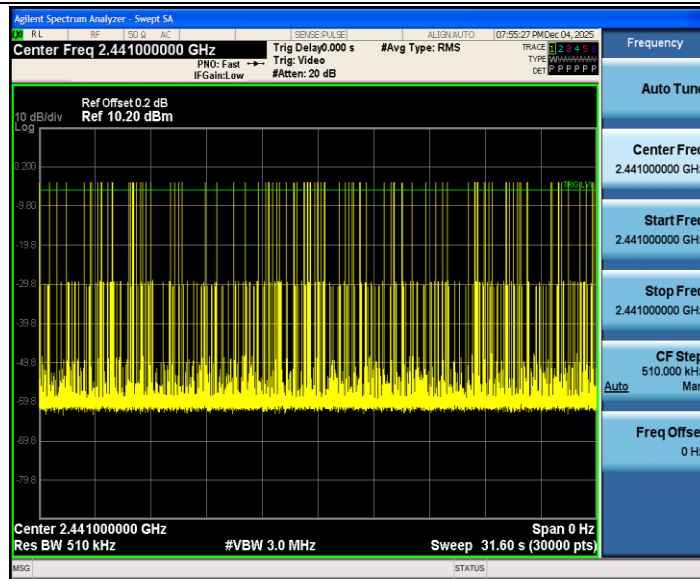
Test Graphs



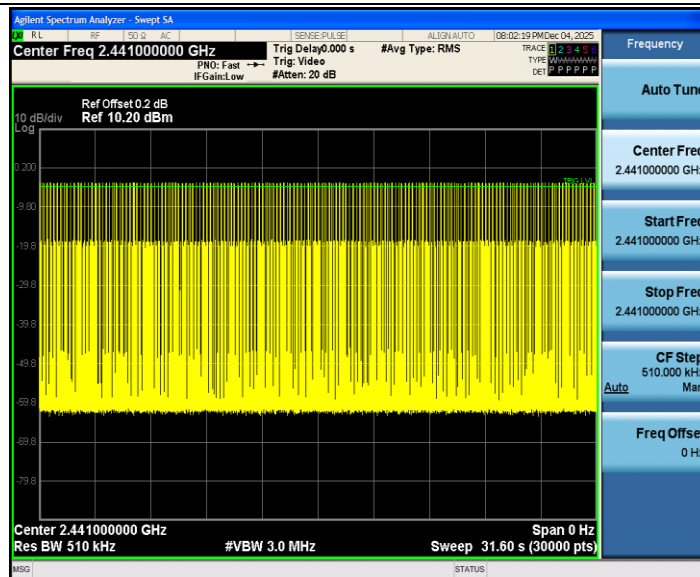
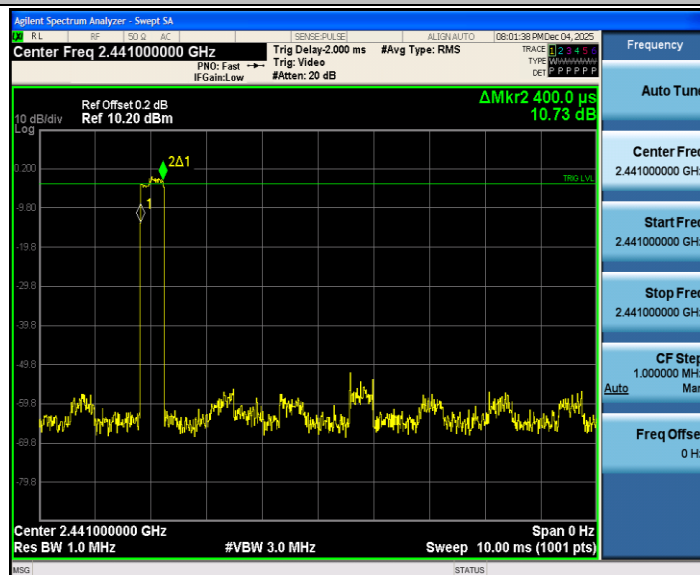


DH5_Ant1_Hop

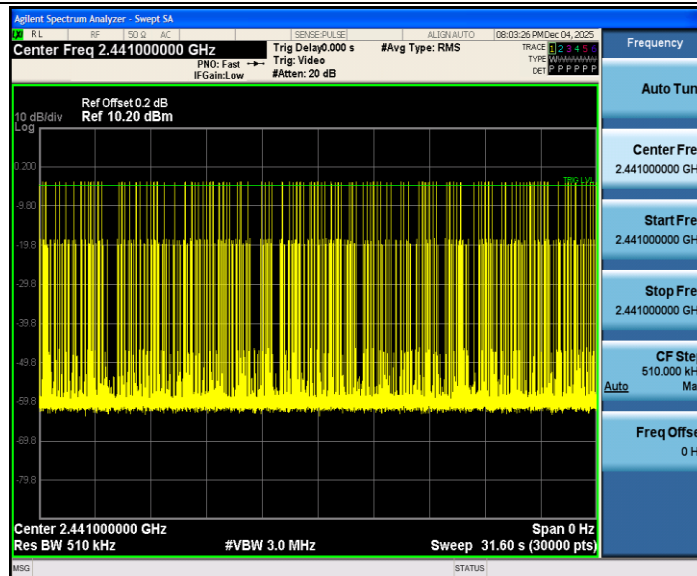
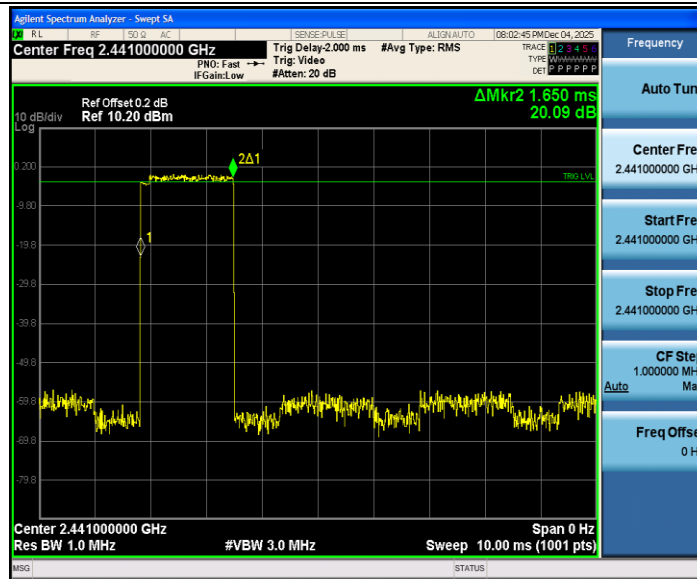




2DH1_Ant1_Hop

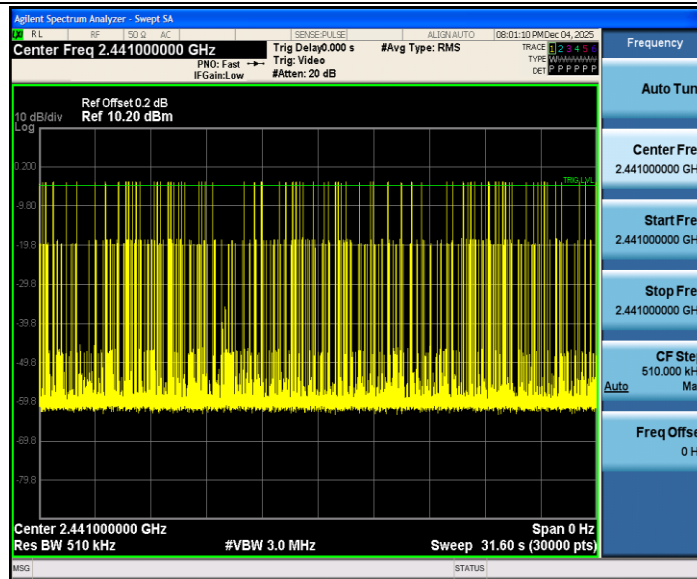


2DH3_Ant1_Hop

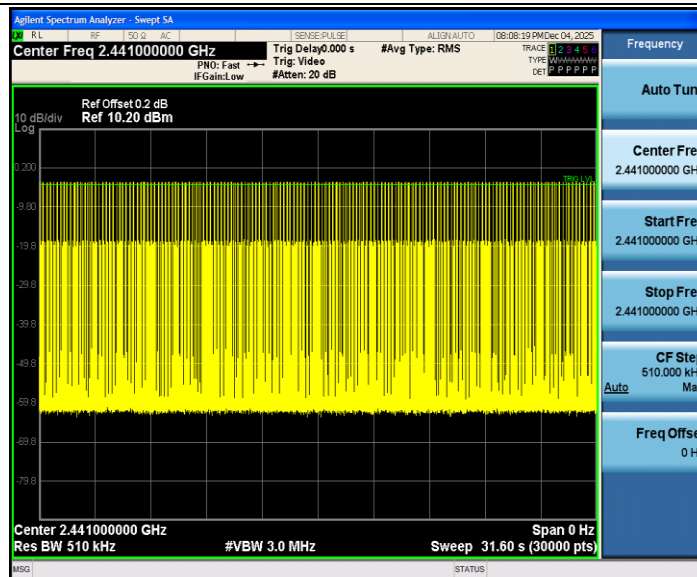
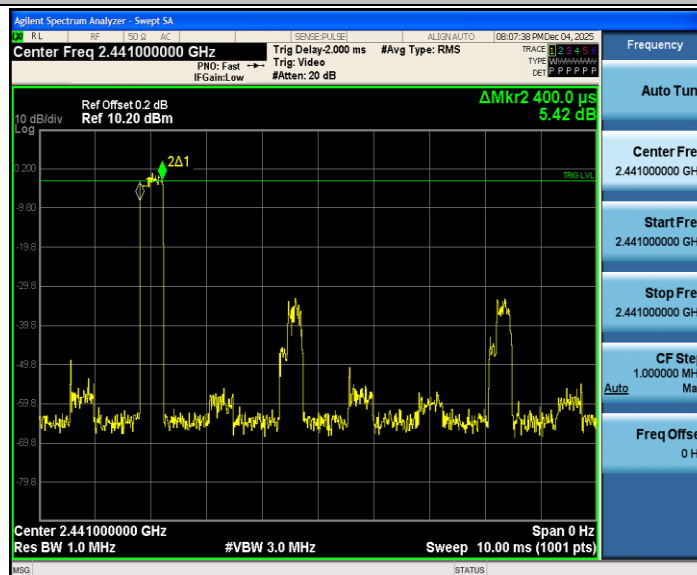


2DH5_Ant1_Hop

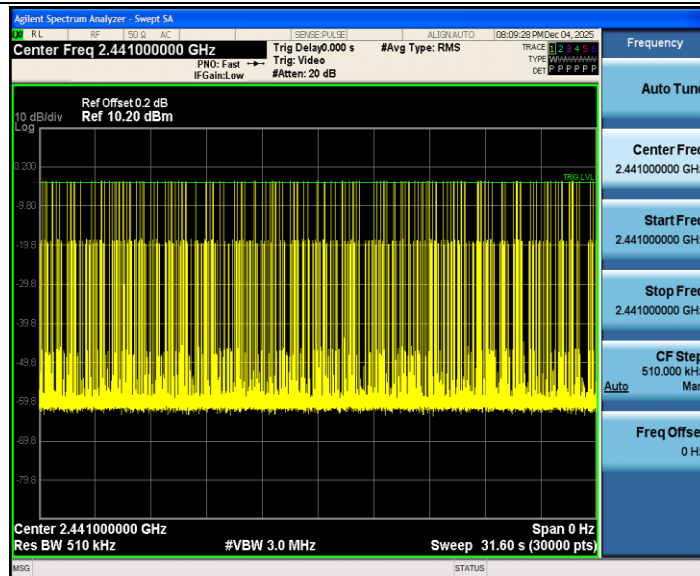




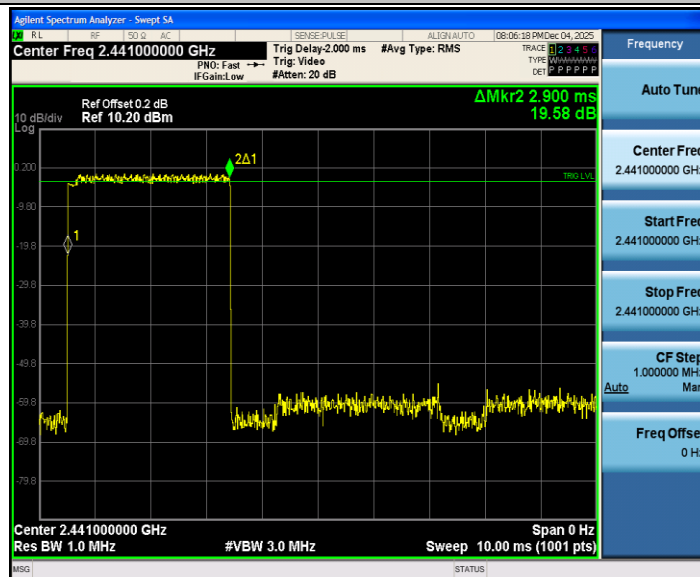
3DH1_Ant1_Hop

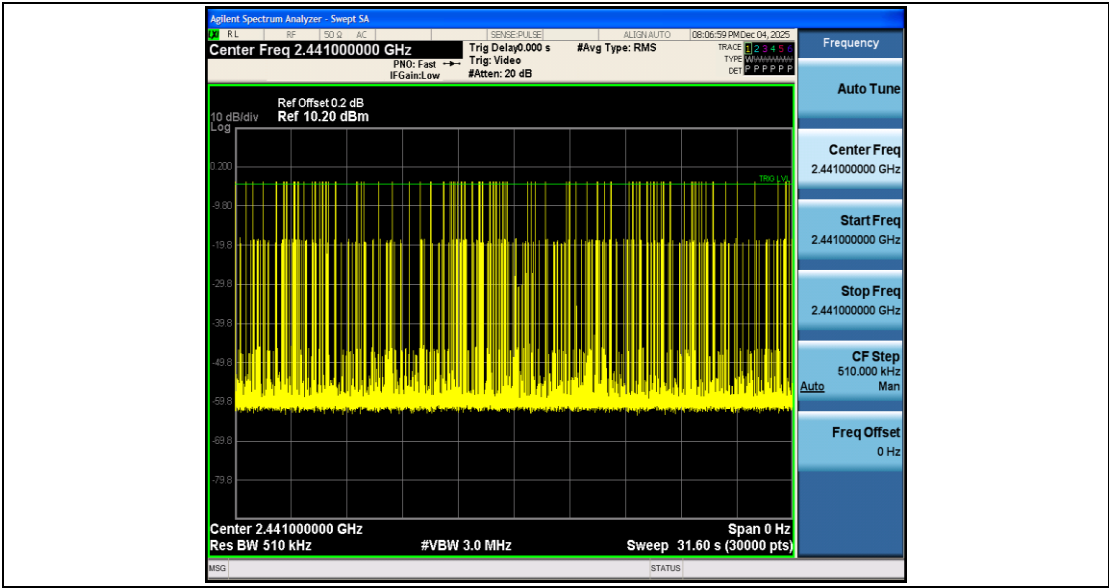


3DH3_Ant1_Hop



3DH5_Ant1_Hop



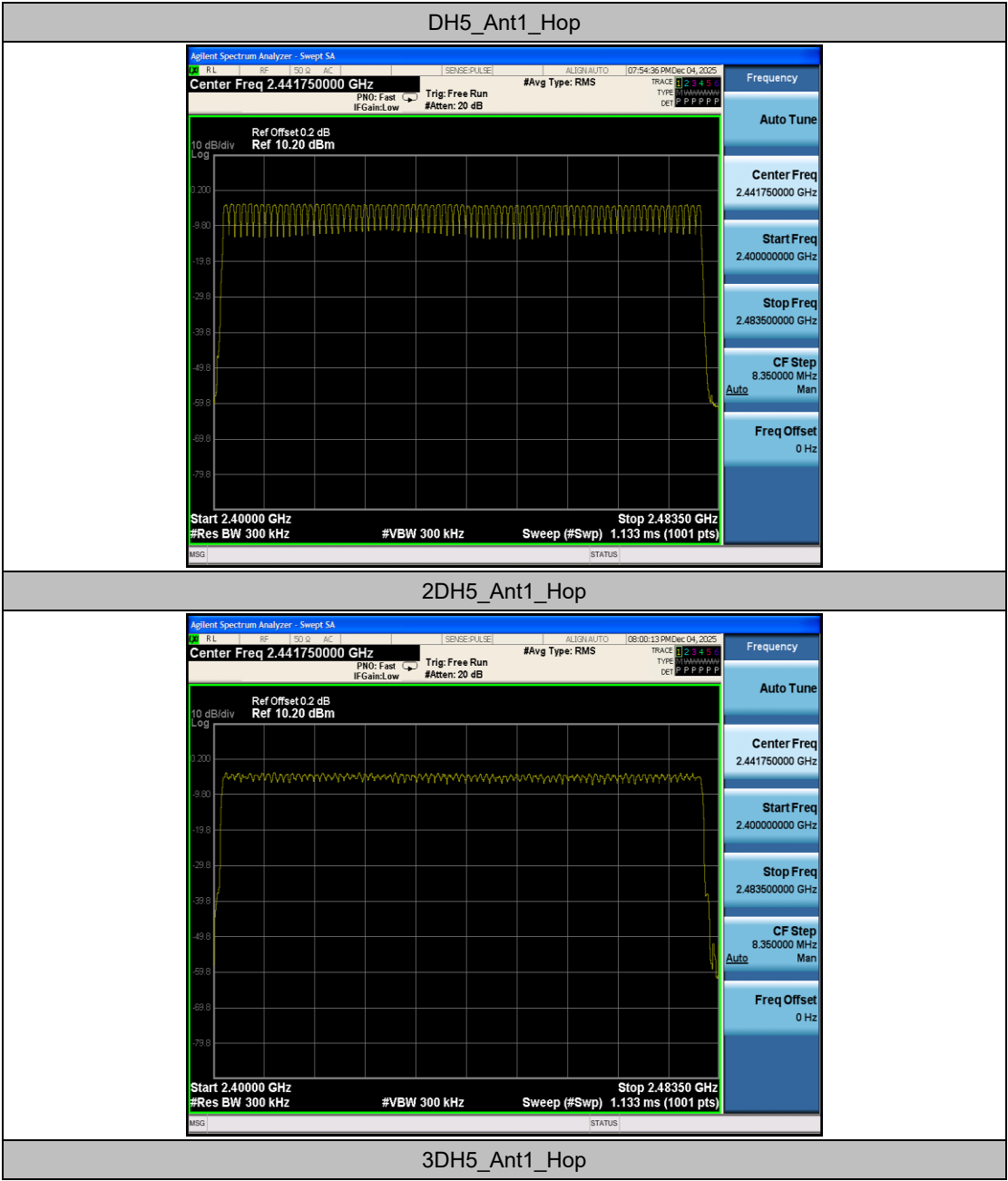


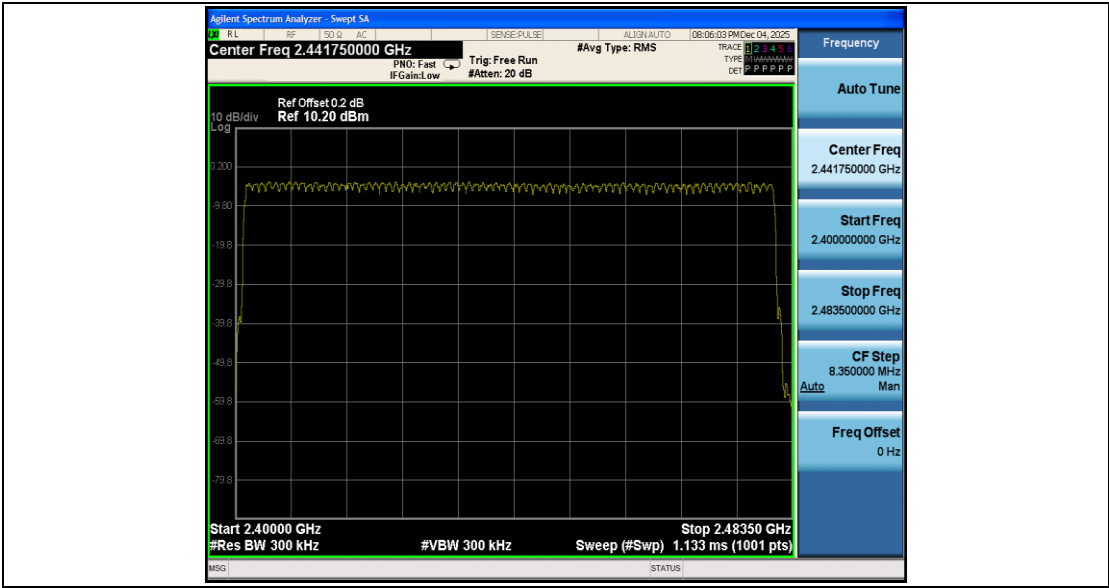
Appendix F: Number of hopping channels

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



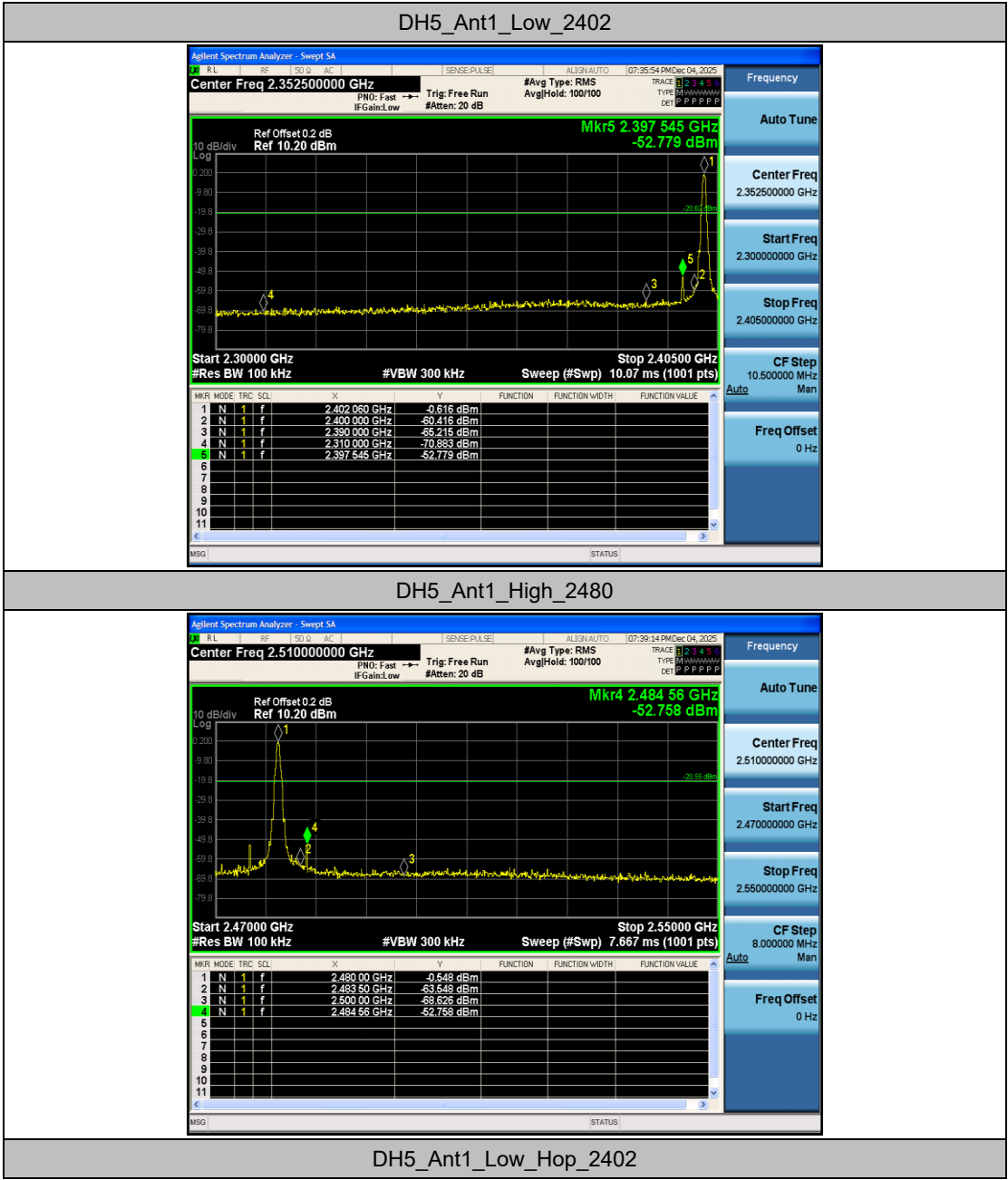


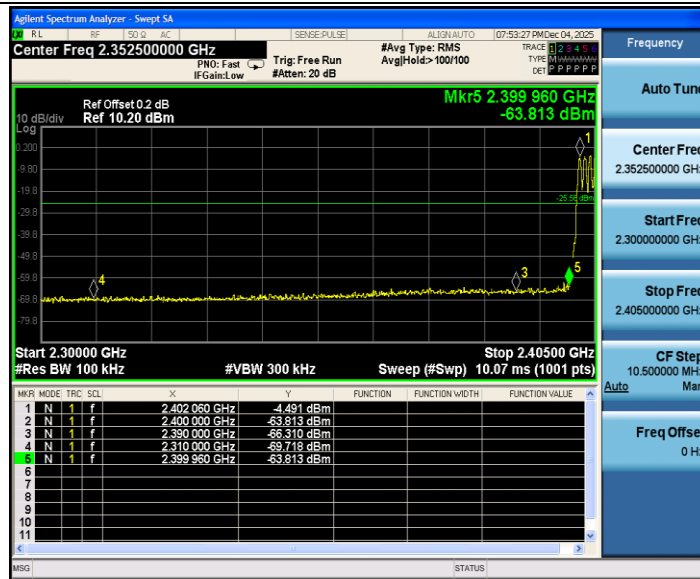
Appendix G: Band edge measurements

Test Result

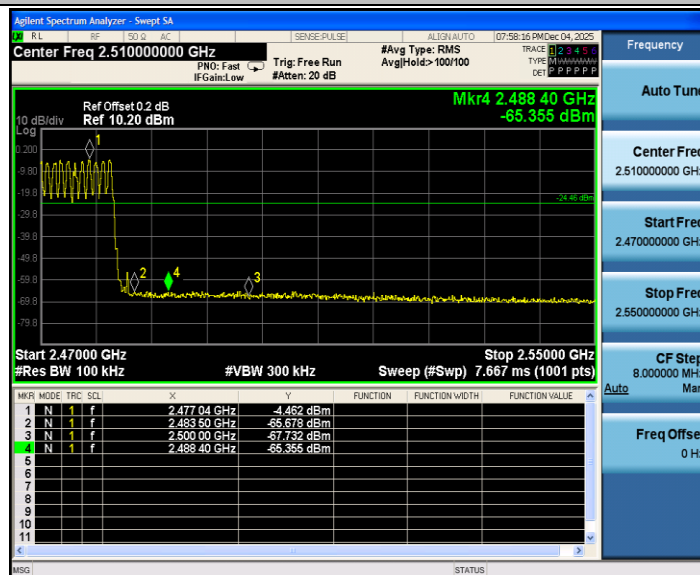
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.62	-52.78	≤-20.62	PASS
		High	2480	-0.55	-52.76	≤-20.55	PASS
		Low	Hop_2402	-5.56	-63.81	≤-25.56	PASS
		High	Hop_2480	-4.46	-65.36	≤-24.46	PASS
2DH5	Ant1	Low	2402	-6.48	-60.34	≤-26.48	PASS
		High	2480	-4.13	-63.7	≤-24.13	PASS
		Low	Hop_2402	-3.77	-62.23	≤-23.77	PASS
		High	Hop_2480	-4.30	-64.56	≤-24.3	PASS
3DH5	Ant1	Low	2402	-3.79	-59.62	≤-23.79	PASS
		High	2480	-5.11	-64.09	≤-25.11	PASS
		Low	Hop_2402	-6.18	-60.59	≤-26.18	PASS
		High	Hop_2480	-5.90	-65.4	≤-25.9	PASS

Test Graphs

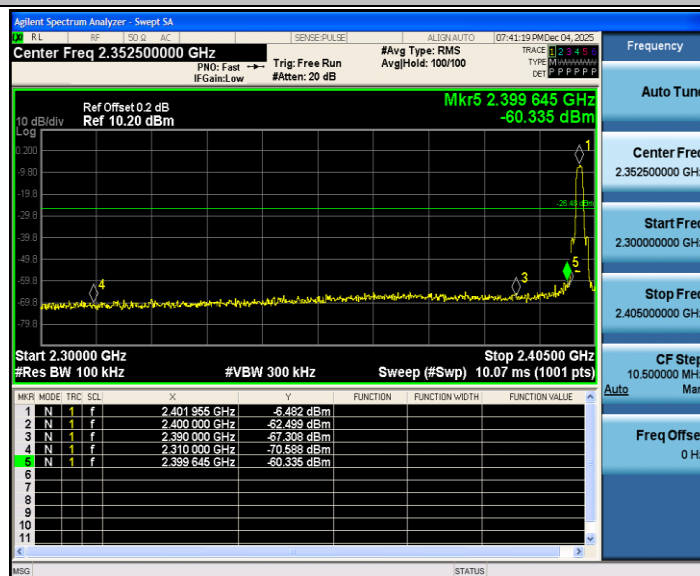




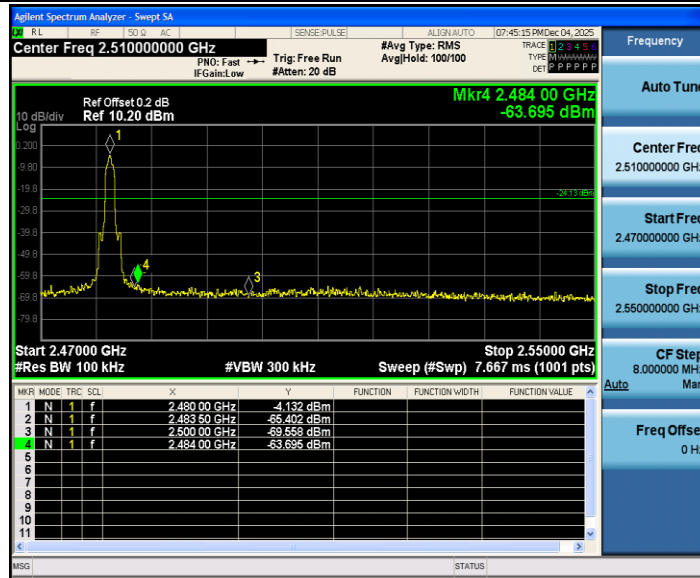
DH5_Ant1_High_Hop_2480



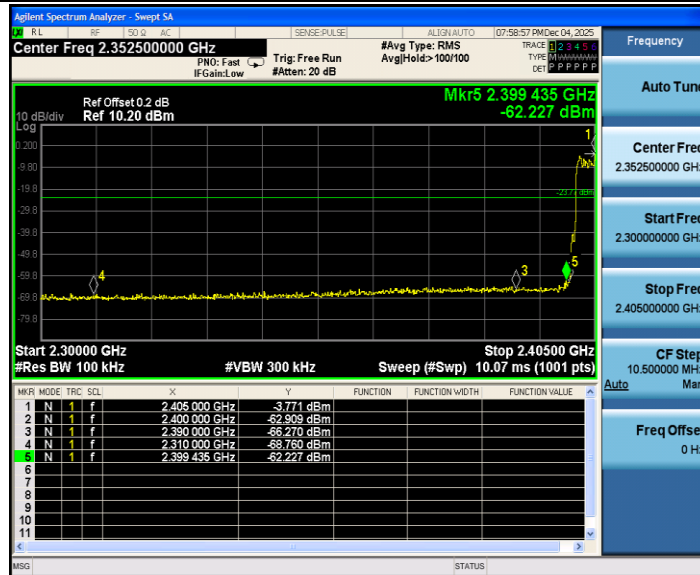
2DH5_Ant1_Low_2402



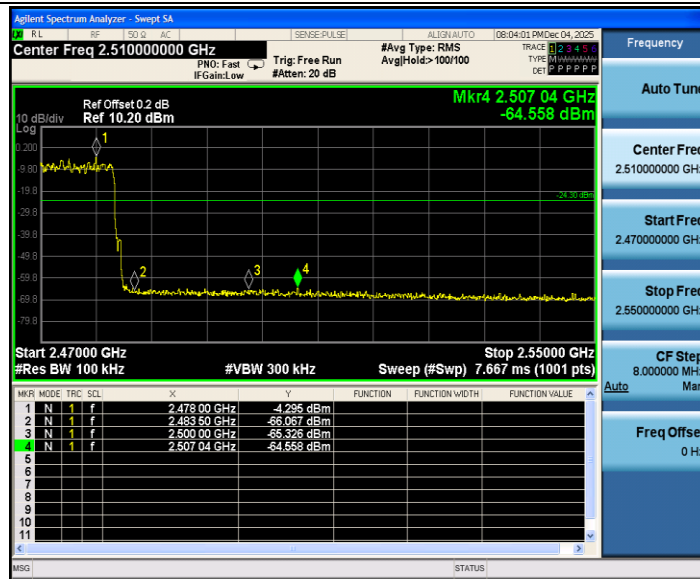
2DH5_Ant1_High_2480



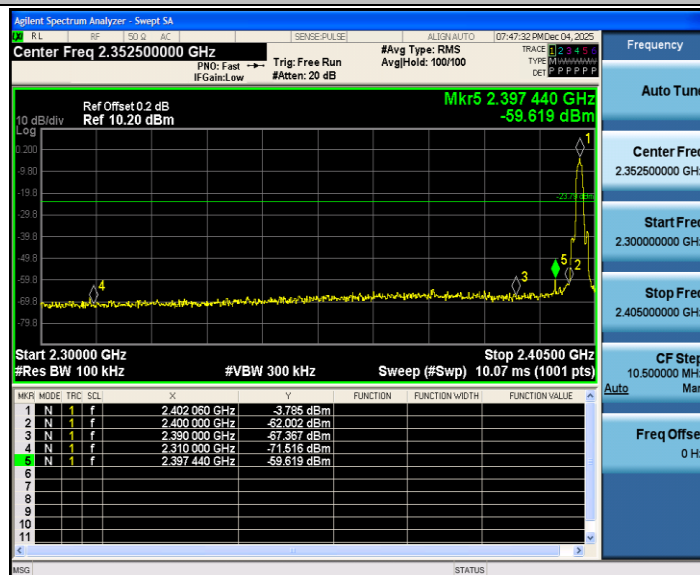
2DH5_Ant1_Low_Hop_2402



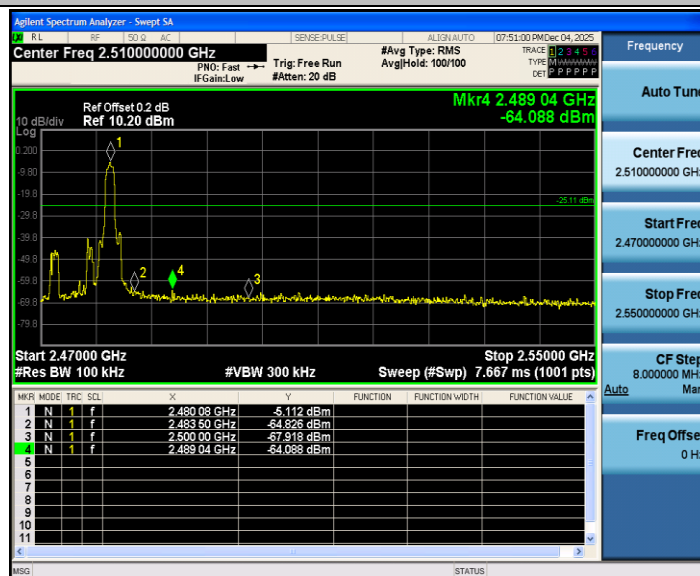
2DH5_Ant1_High_Hop_2480



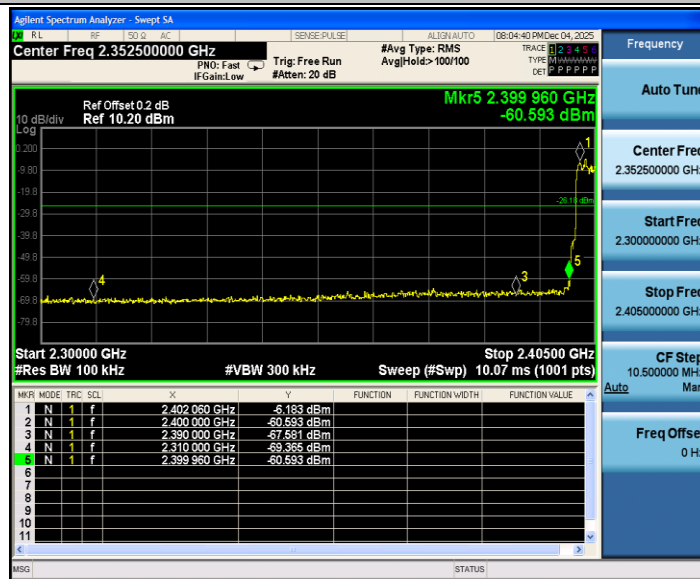
3DH5_Ant1_Low_2402



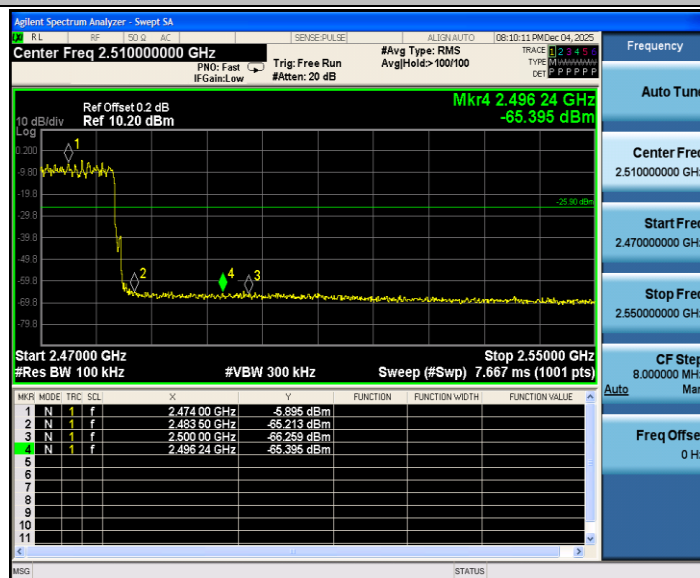
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

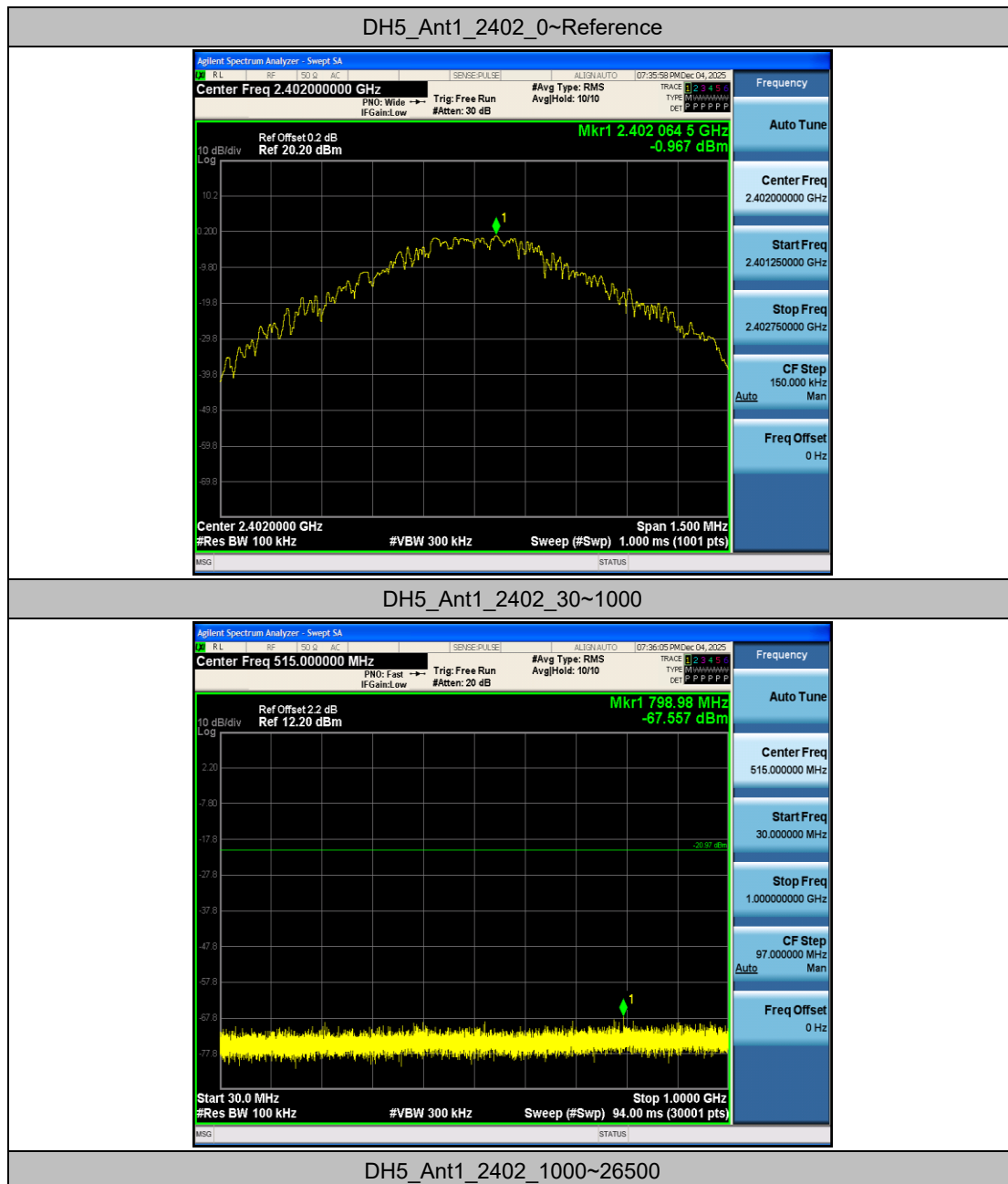


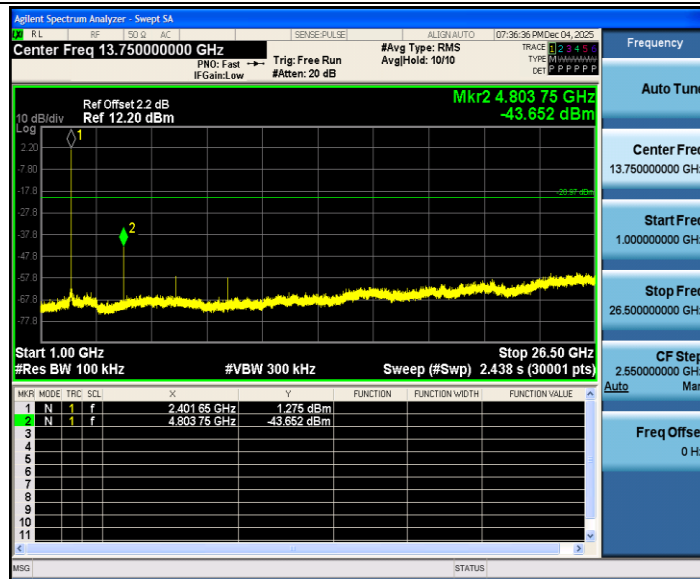
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-67.56	≤-20.97	PASS
			1000~26500	-0.97	-43.65	≤-20.97	PASS
		2441	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-68.2	≤-21.33	PASS
			1000~26500	-1.33	-44.37	≤-21.33	PASS
		2480	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-63.02	≤-21.64	PASS
			1000~26500	-1.64	-43.46	≤-21.64	PASS
2DH5	Ant1	2402	Reference	-5.21	-5.21	---	PASS
			30~1000	-5.21	-53.72	≤-25.21	PASS
			1000~26500	-5.21	-48.39	≤-25.21	PASS
		2441	Reference	-7.22	-7.22	---	PASS
			30~1000	-7.22	-68.36	≤-27.22	PASS
			1000~26500	-7.22	-48.46	≤-27.22	PASS
		2480	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-54.44	≤-25.03	PASS
			1000~26500	-5.03	-48.16	≤-25.03	PASS
3DH5	Ant1	2402	Reference	-4.76	-4.76	---	PASS
			30~1000	-4.76	-67.62	≤-24.76	PASS
			1000~26500	-4.76	-27.84	≤-24.76	PASS
		2441	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-68.15	≤-24.61	PASS
			1000~26500	-4.61	-46.21	≤-24.61	PASS
		2480	Reference	-5.79	-5.79	---	PASS
			30~1000	-5.79	-68.3	≤-25.79	PASS
			1000~26500	-5.79	-46.17	≤-25.79	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

