

FCC Appendix RF Test Data for BT

FCC ID : 2BSTG-MW-75

Company : Zhongshan Yiminhui Electronic Technology Co., Ltd.

EUT : Bluetooth Speaker Camping Light

Model Number : MW-75

Report No. : CTA25101501902

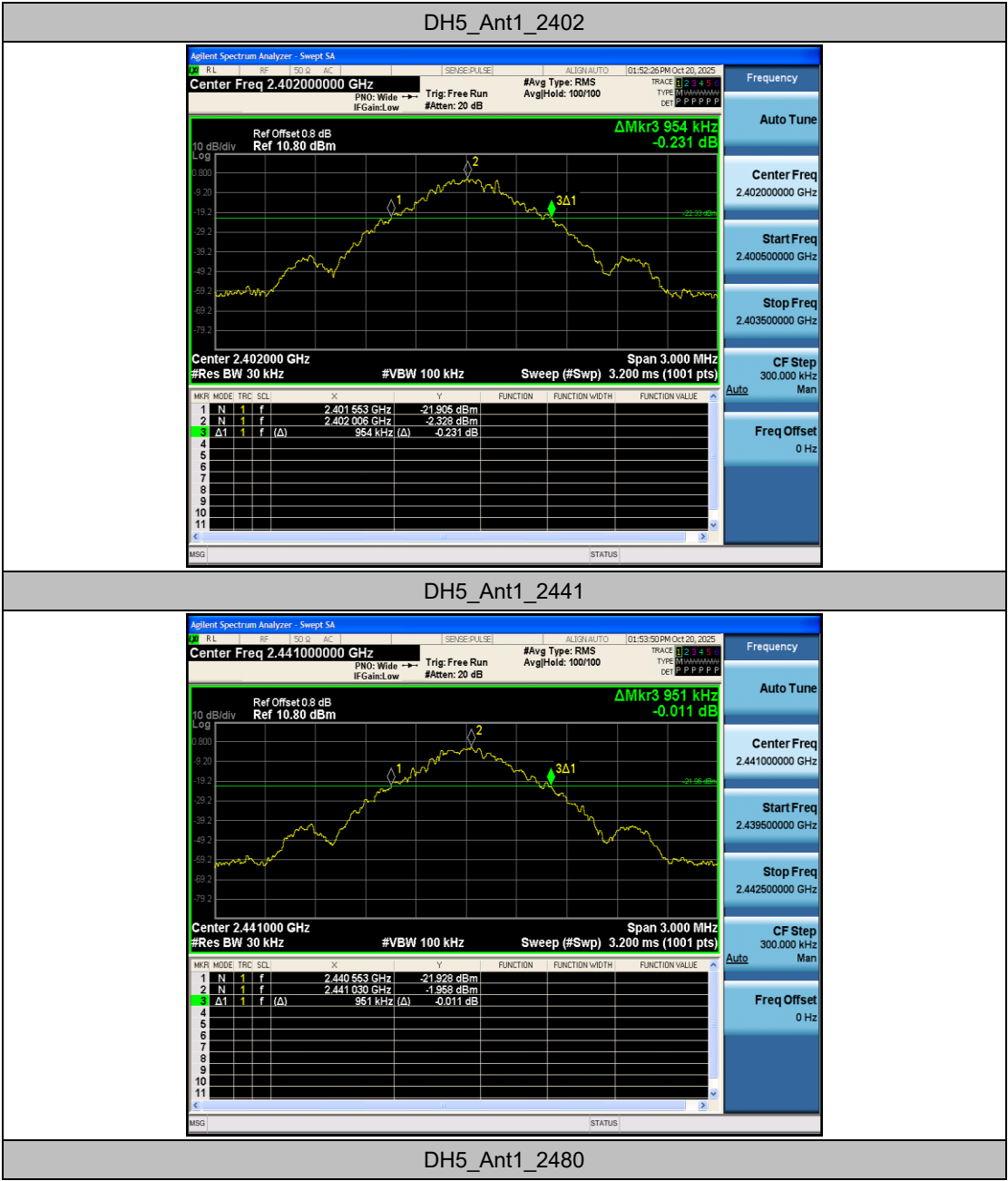
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.553	2402.507	---	---
		2441	0.951	2440.553	2441.504	---	---
		2480	0.957	2479.550	2480.507	---	---
2DH5	Ant1	2402	1.332	2401.346	2402.678	---	---
		2441	1.284	2440.385	2441.669	---	---
		2480	1.278	2479.385	2480.663	---	---
3DH5	Ant1	2402	1.317	2401.364	2402.681	---	---
		2441	1.320	2440.355	2441.675	---	---
		2480	1.338	2479.346	2480.684	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

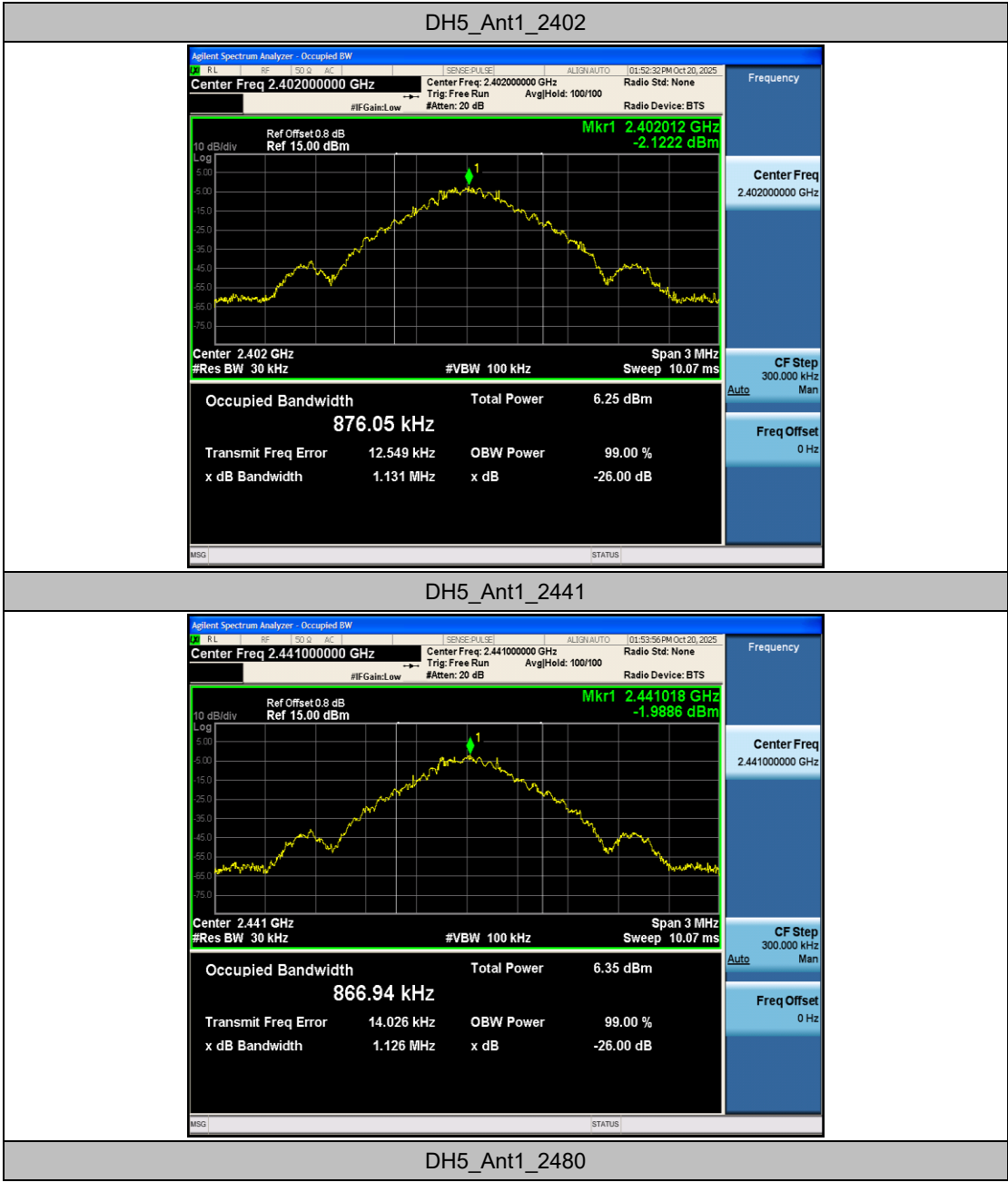


Appendix B: Occupied Channel Bandwidth

Test Result

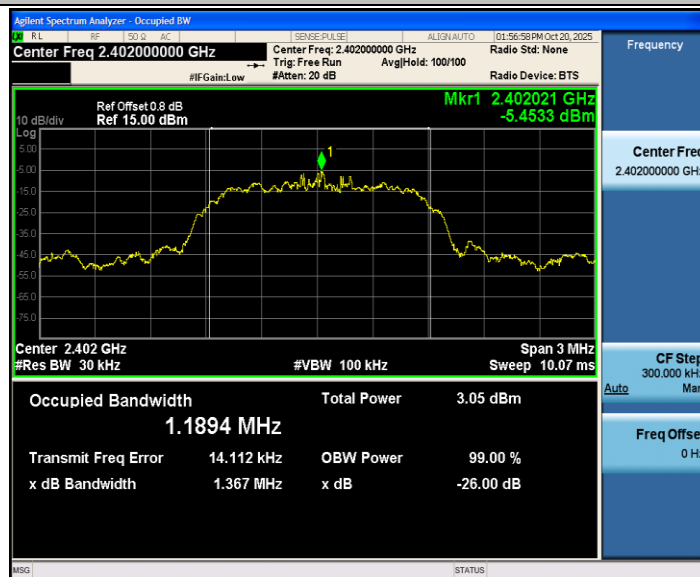
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87605	2401.5745	2402.4506	---	---
		2441	0.86694	2440.5806	2441.4475	---	---
		2480	0.86958	2479.5777	2480.4473	---	---
2DH5	Ant1	2402	1.1894	2401.4194	2402.6088	---	---
		2441	1.1829	2440.4226	2441.6055	---	---
		2480	1.1909	2479.4207	2480.6116	---	---
3DH5	Ant1	2402	1.1937	2401.4183	2402.6120	---	---
		2441	1.1803	2440.4225	2441.6028	---	---
		2480	1.1884	2479.4218	2480.6102	---	---

Test Graphs

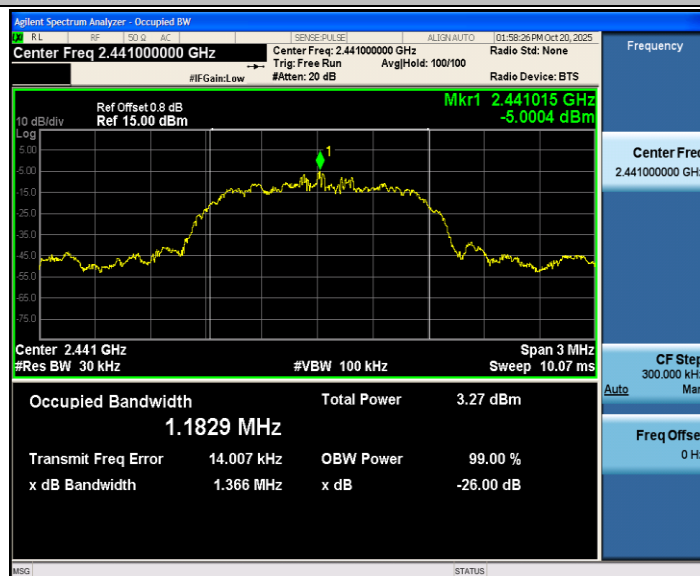




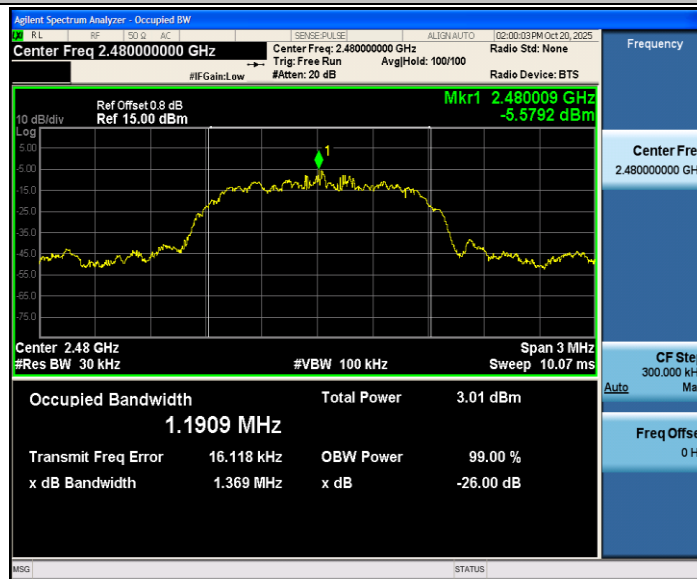
2DH5_Ant1_2402



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	0.45	≤20.97	PASS
		2441	0.38	≤20.97	PASS
		2480	0.43	≤20.97	PASS
2DH5	Ant1	2402	-0.35	≤20.97	PASS
		2441	-0.42	≤20.97	PASS
		2480	-0.35	≤20.97	PASS
3DH5	Ant1	2402	-0.31	≤20.97	PASS
		2441	-0.43	≤20.97	PASS
		2480	-0.41	≤20.97	PASS

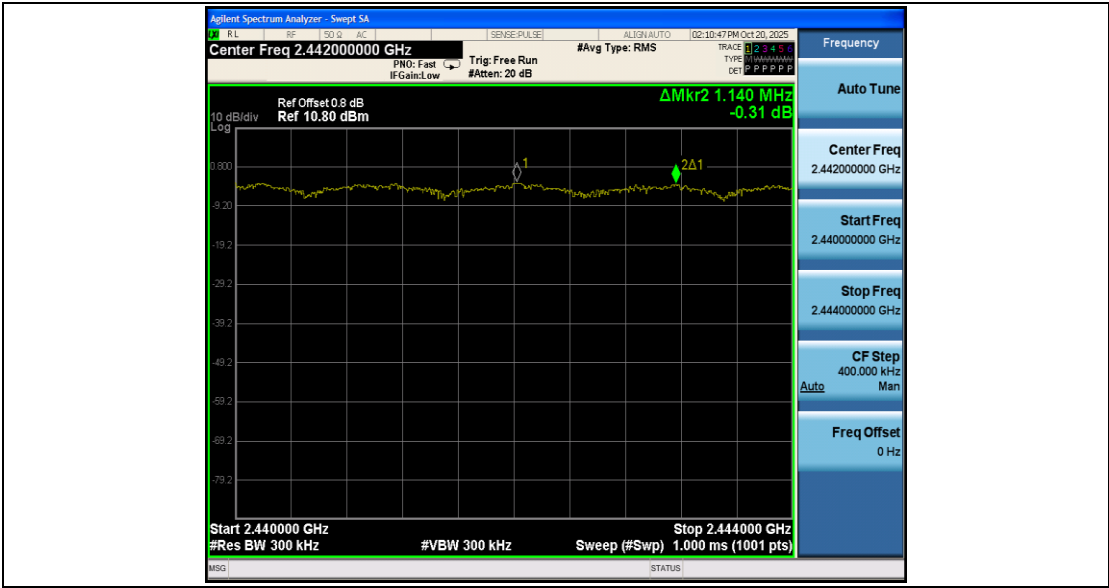
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.98	≥ 0.957	PASS
2DH5	Ant1	Hop	1.128	≥ 0.888	PASS
3DH5	Ant1	Hop	1.14	≥ 0.892	PASS

Test Graphs



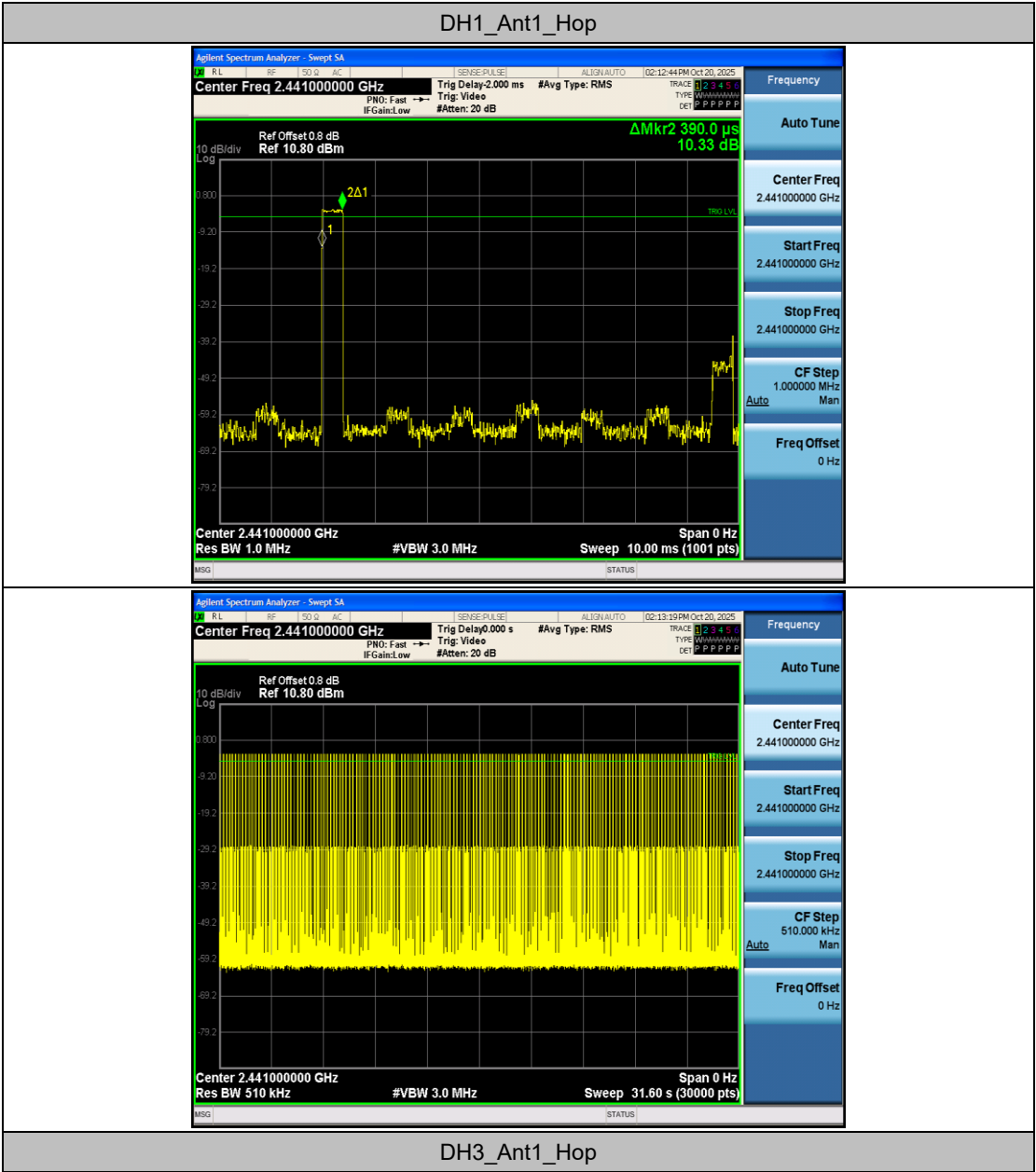


Appendix E: Time of occupancy

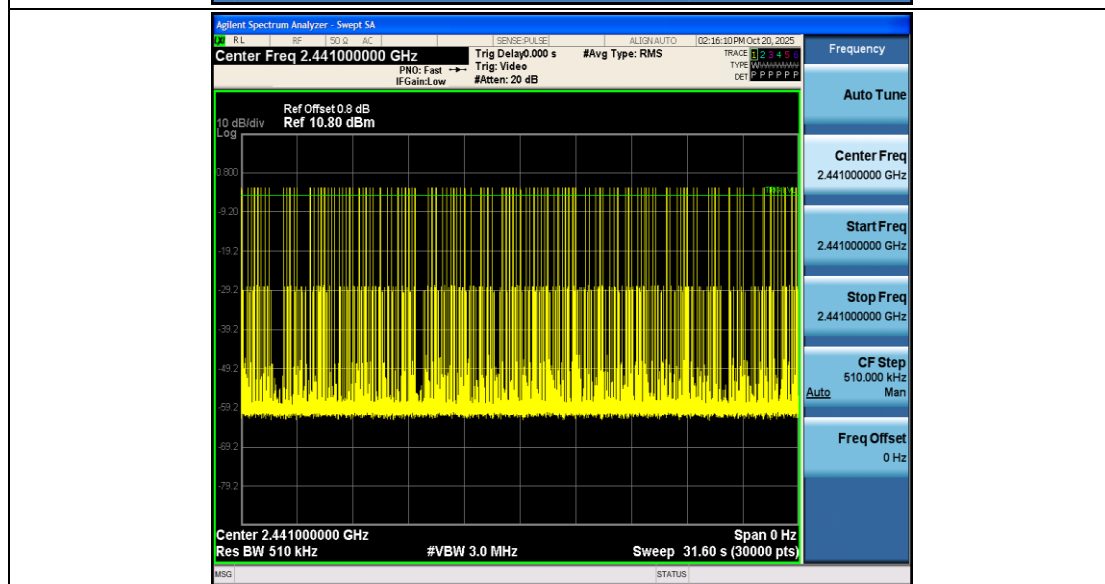
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	157	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.890	103	0.298	≤0.4	PASS
2DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.650	162	0.267	≤0.4	PASS
2DH5	Ant1	Hop	2.900	97	0.281	≤0.4	PASS
3DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.650	164	0.271	≤0.4	PASS
3DH5	Ant1	Hop	2.890	108	0.312	≤0.4	PASS

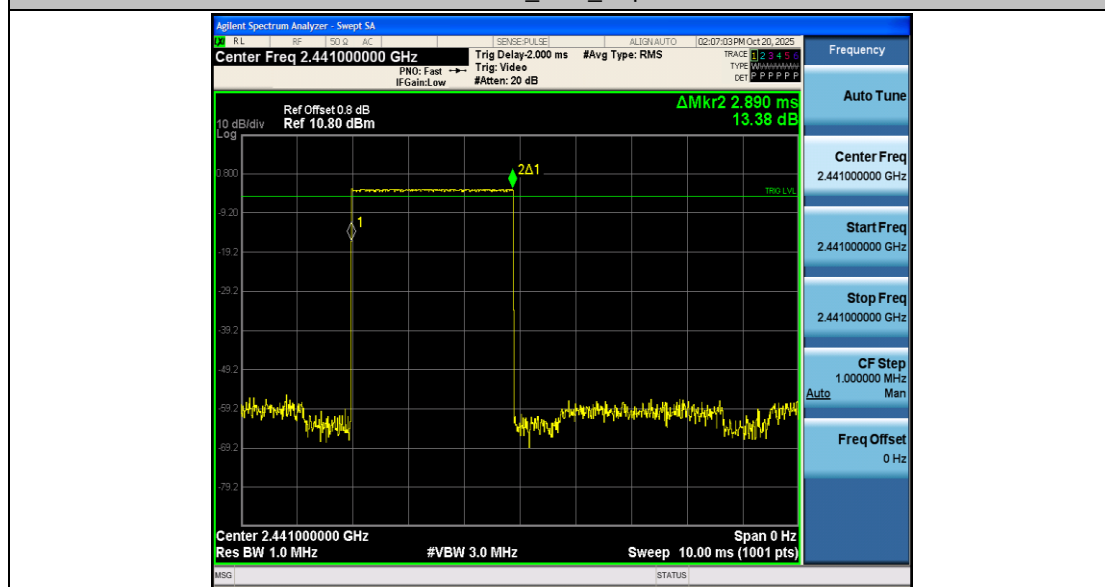
Test Graphs

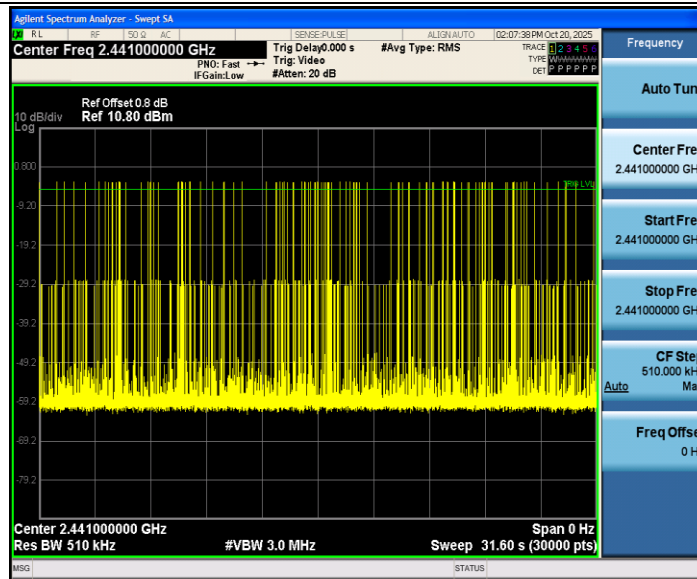


DH3_Ant1_Hop

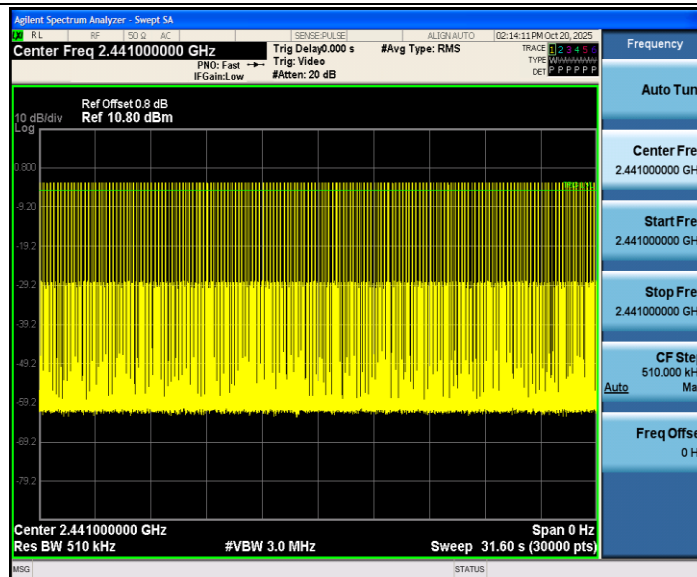
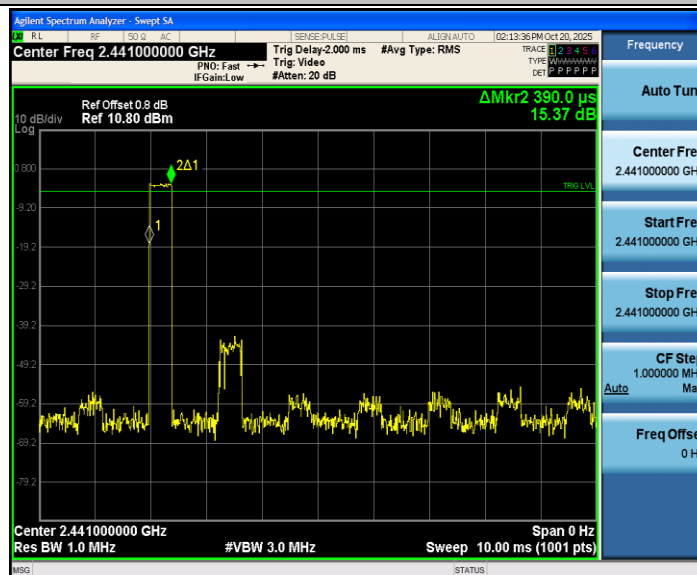


DH5_Ant1_Hop

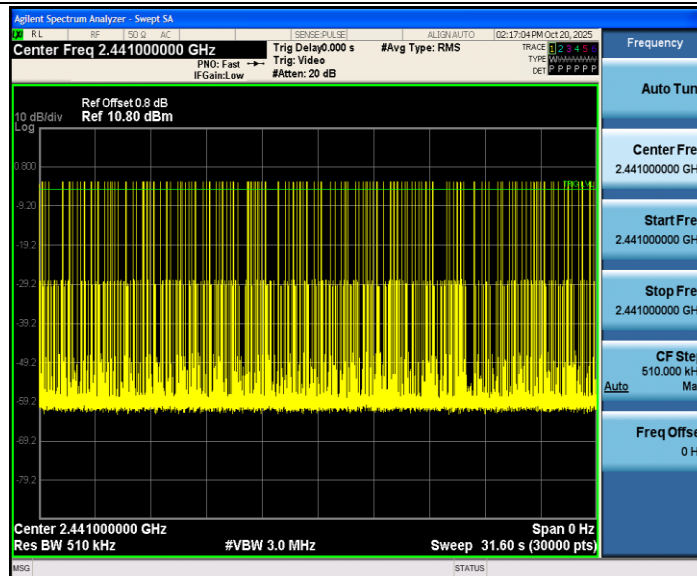
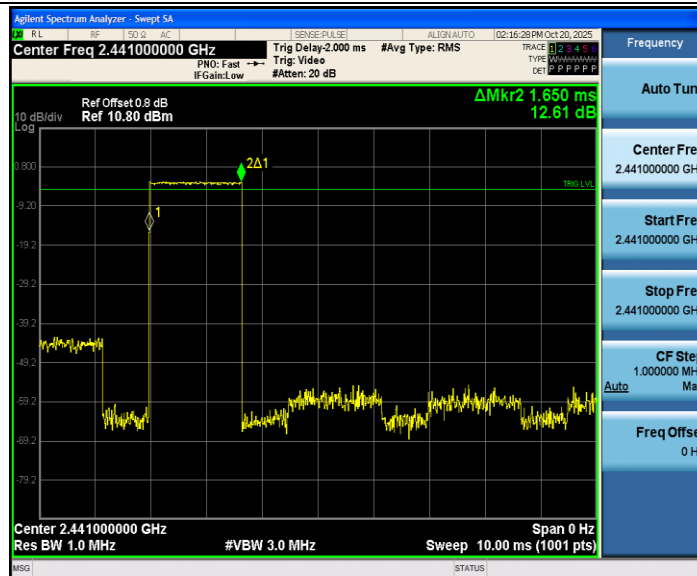




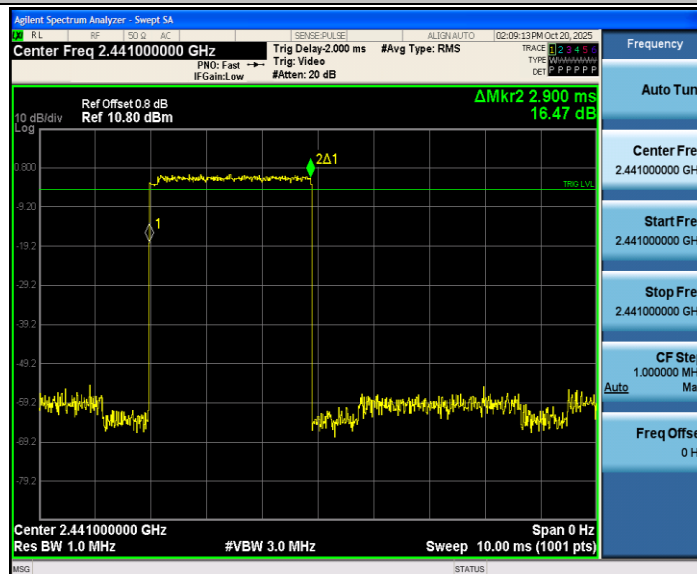
2DH1_Ant1_Hop

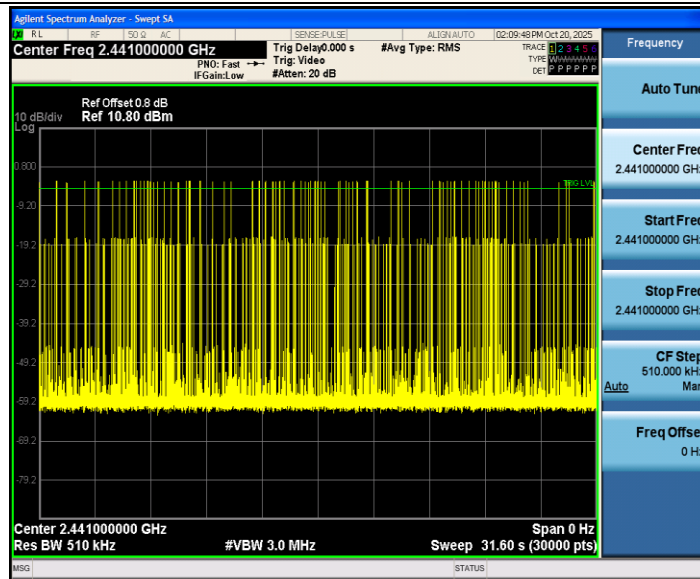


2DH3_Ant1_Hop

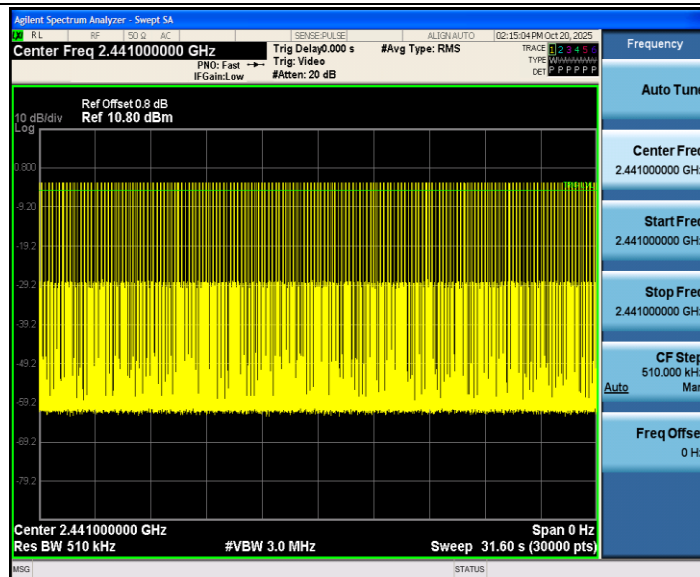
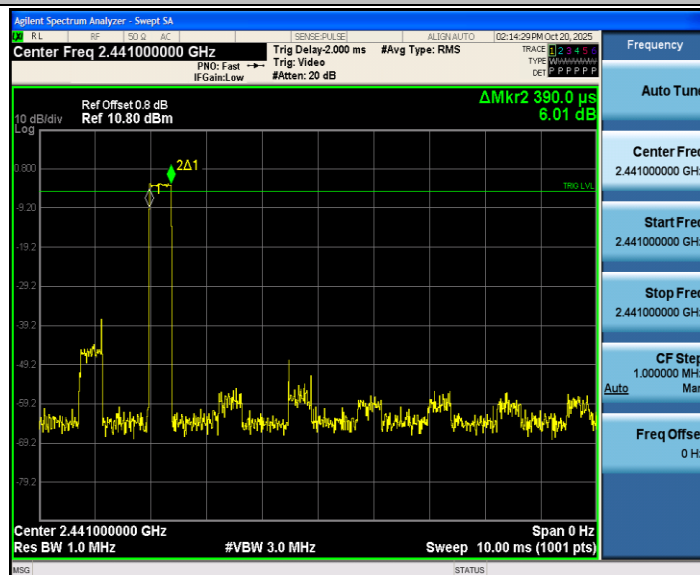


2DH5_Ant1_Hop

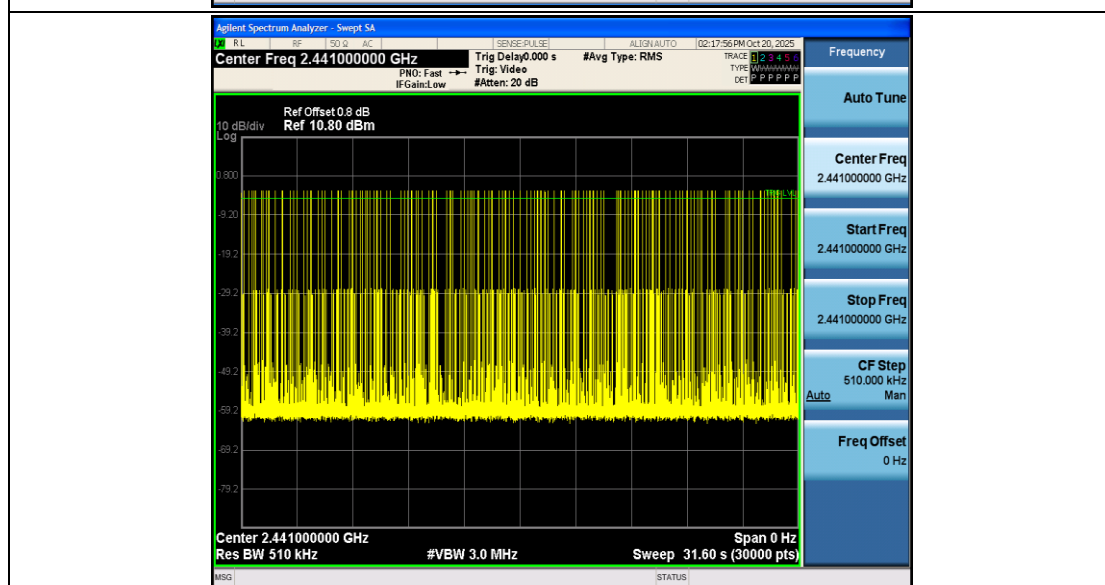




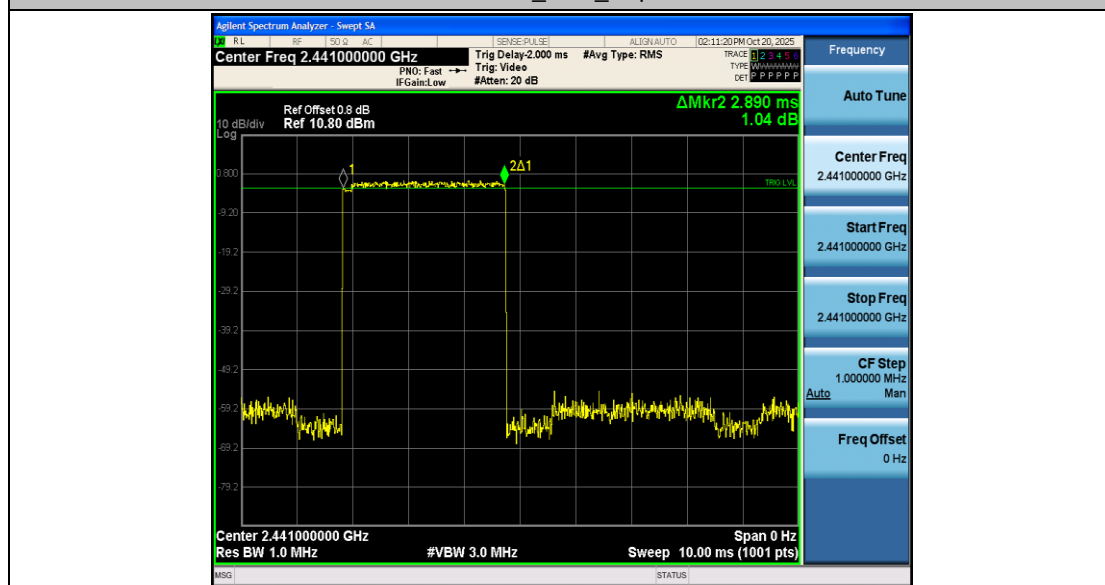
3DH1_Ant1_Hop

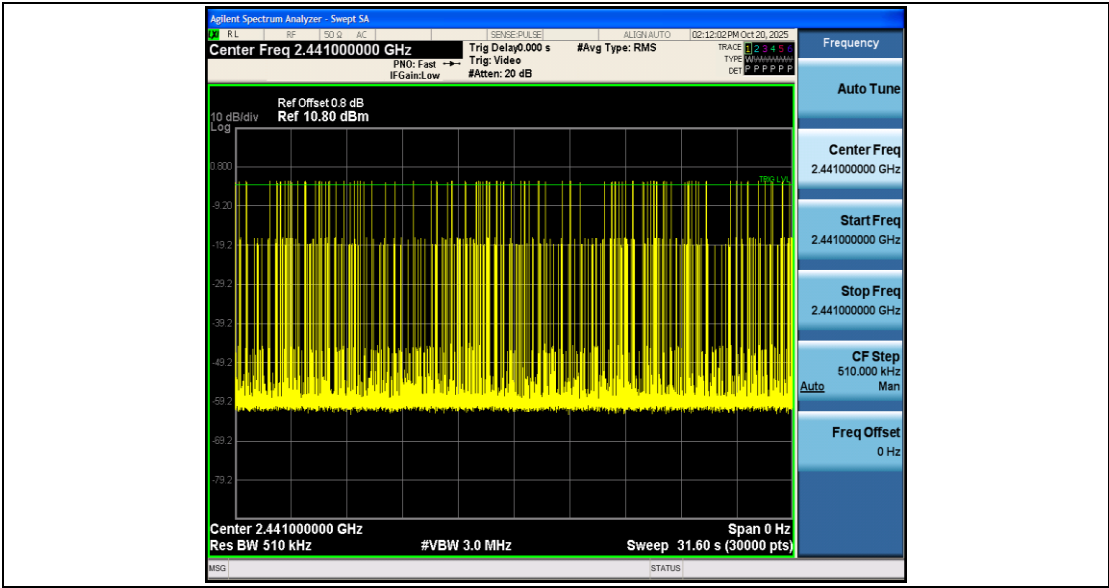


3DH3_Ant1_Hop



3DH5_Ant1_Hop





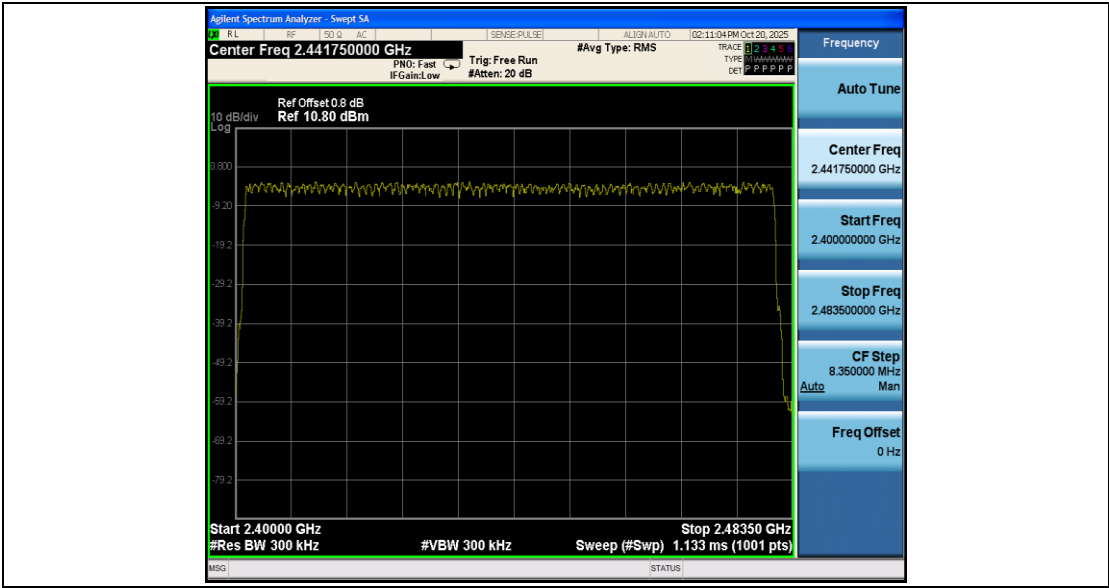
Appendix F: Number of hopping channels

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



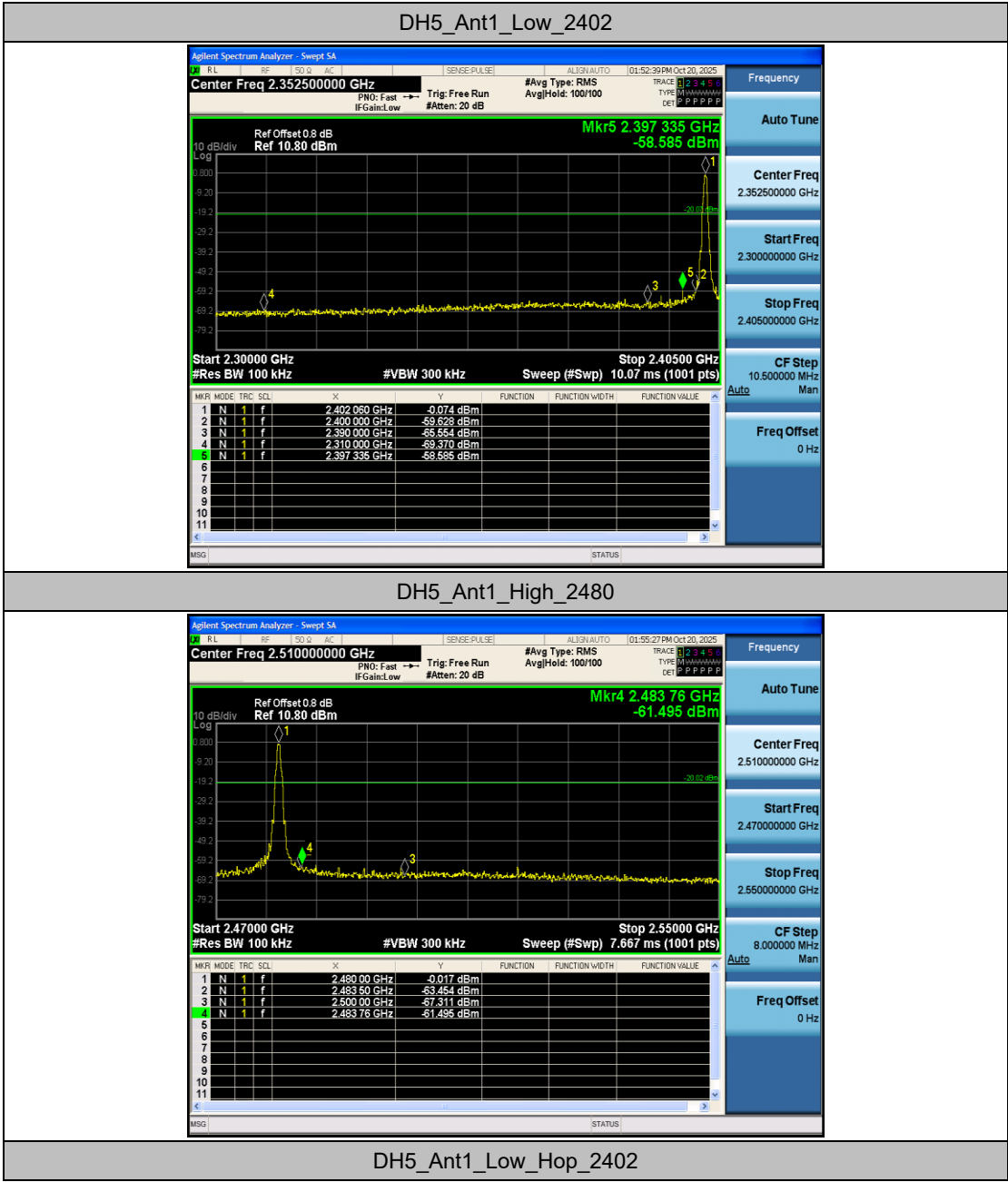


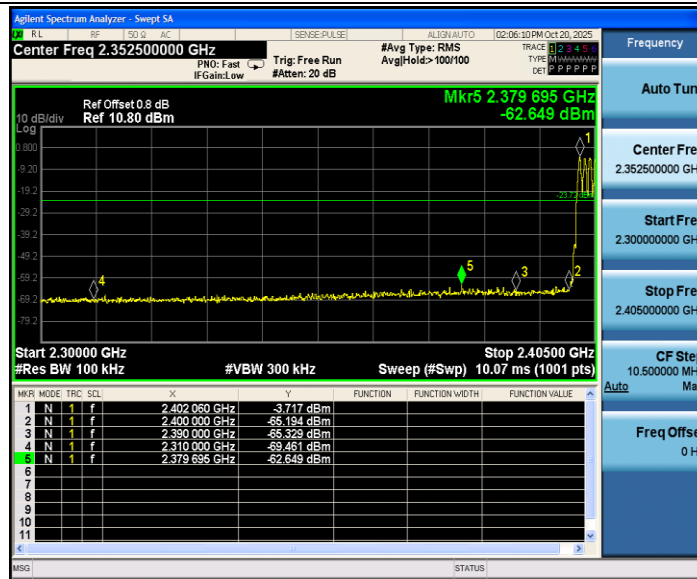
Appendix G: Band edge measurements

Test Result

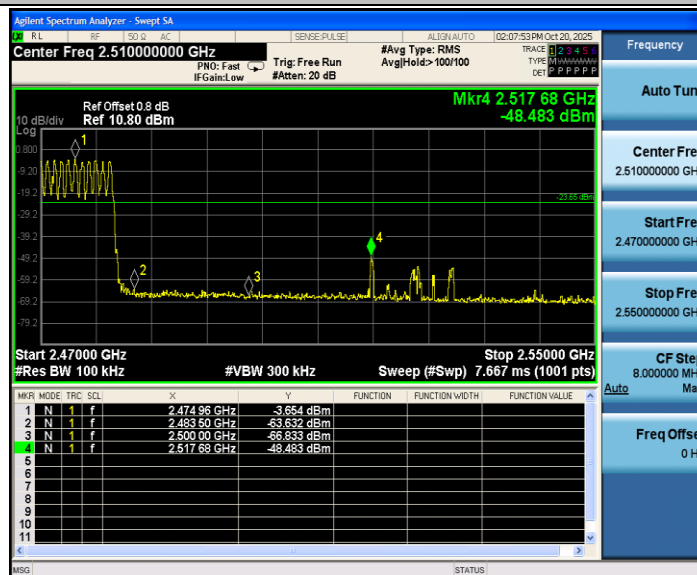
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.07	-58.59	≤-20.07	PASS
		High	2480	-0.02	-61.5	≤-20.02	PASS
		Low	Hop_2402	-3.72	-62.65	≤-23.72	PASS
		High	Hop_2480	-3.65	-48.48	≤-23.65	PASS
2DH5	Ant1	Low	2402	-3.38	-58.71	≤-23.38	PASS
		High	2480	-3.74	-55.4	≤-23.74	PASS
		Low	Hop_2402	-4.58	-59.11	≤-24.58	PASS
		High	Hop_2480	-4.37	-63.51	≤-24.37	PASS
3DH5	Ant1	Low	2402	-4.00	-55.48	≤-24	PASS
		High	2480	-3.10	-57.66	≤-23.1	PASS
		Low	Hop_2402	-6.65	-62.64	≤-26.65	PASS
		High	Hop_2480	-3.81	-62.61	≤-23.81	PASS

Test Graphs

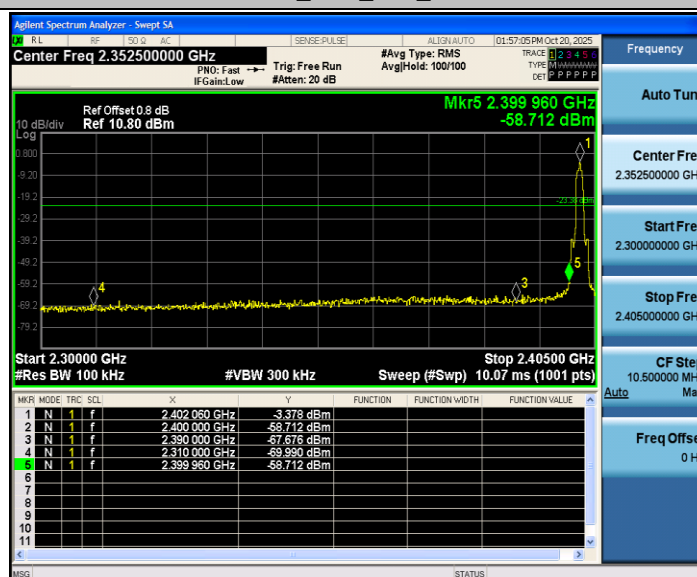




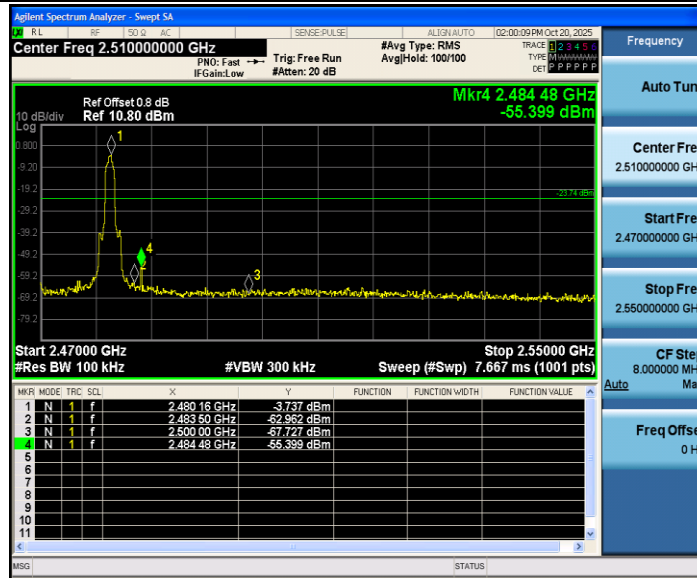
DH5_Ant1_High_Hop_2480



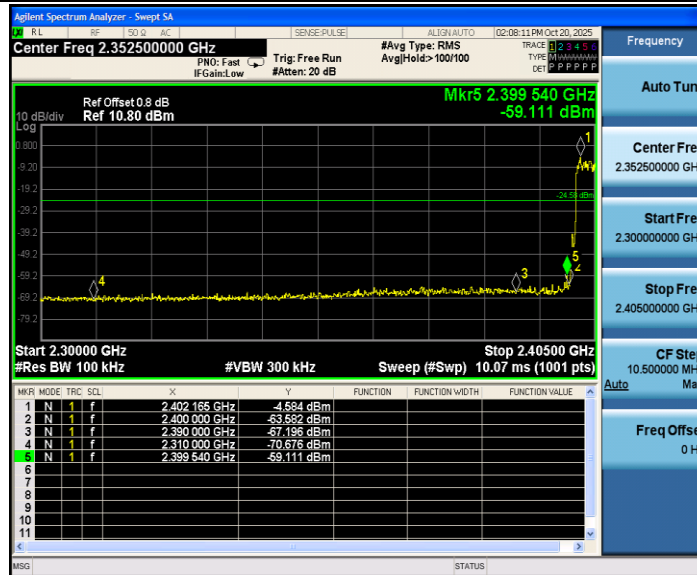
2DH5_Ant1_Low_2402



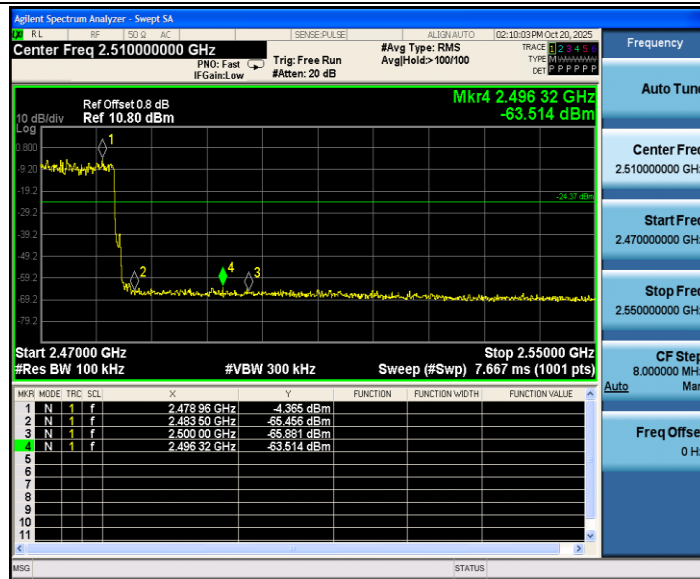
2DH5_Ant1_High_2480



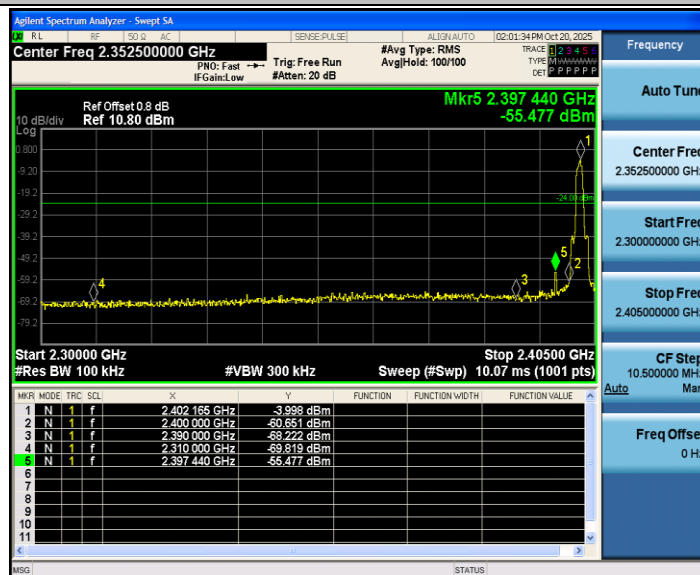
2DH5_Ant1_Low_Hop_2402



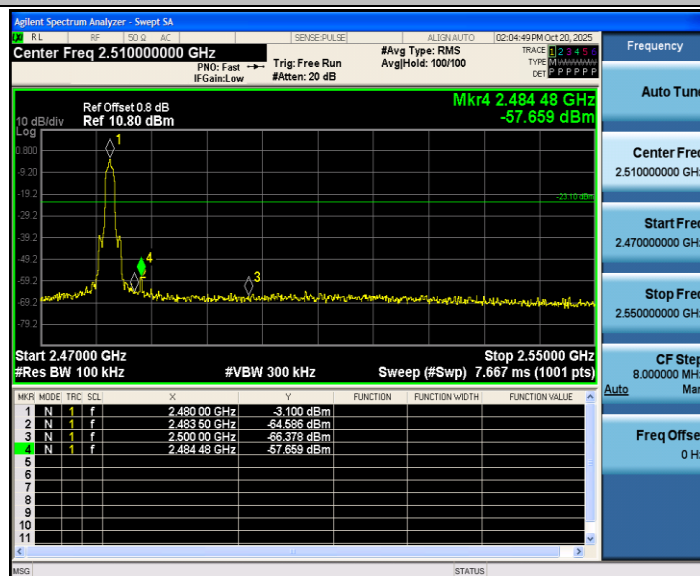
2DH5_Ant1_High_Hop_2480



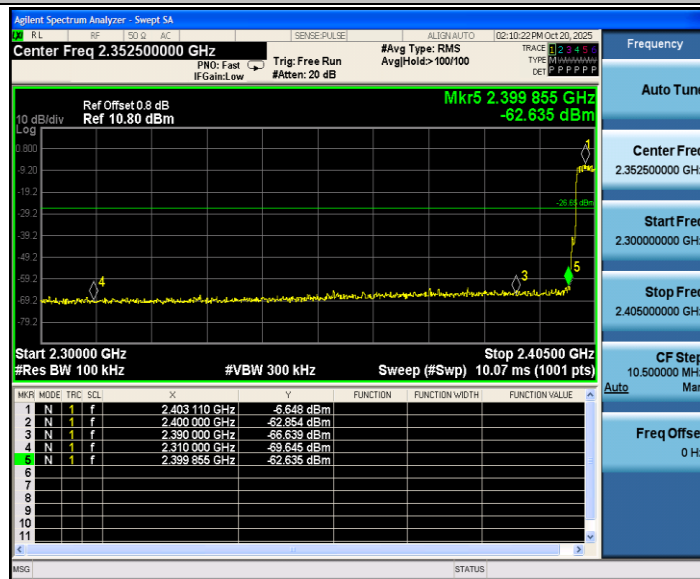
3DH5_Ant1_Low_2402



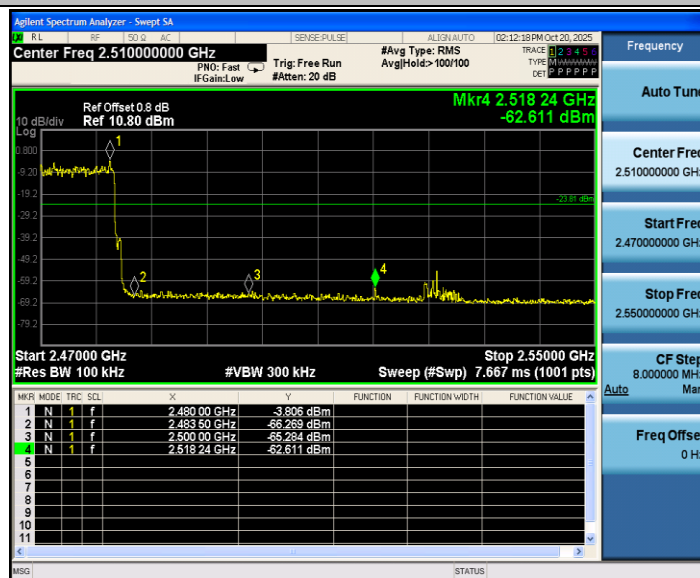
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

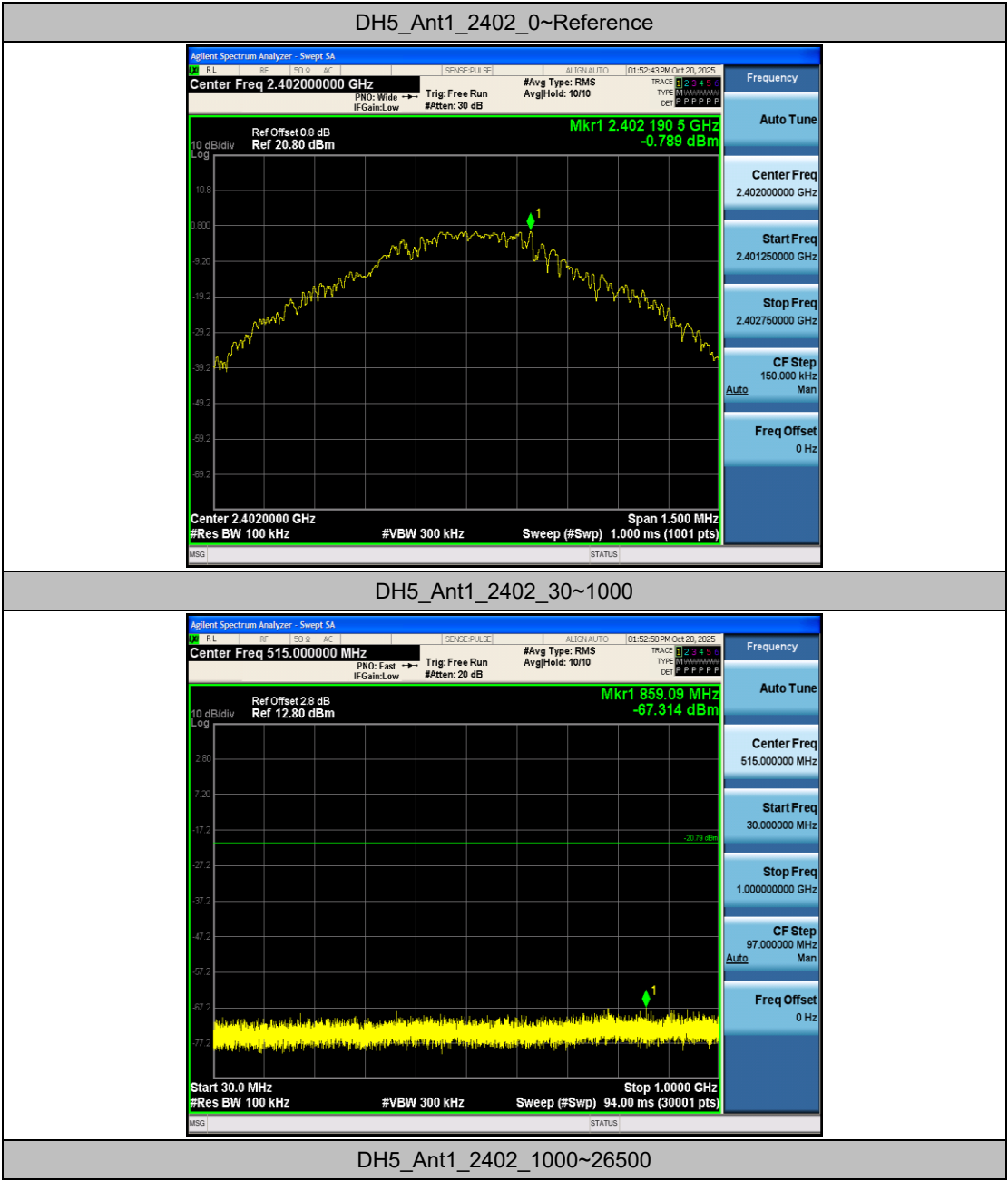


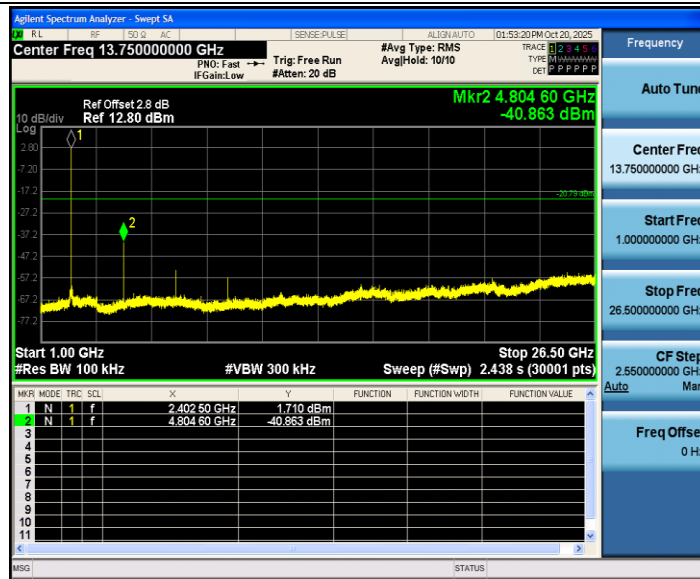
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.79	-0.79	---	PASS
			30~1000	-0.79	-67.31	≤-20.79	PASS
			1000~26500	-0.79	-40.86	≤-20.79	PASS
		2441	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-67.73	≤-20.74	PASS
			1000~26500	-0.74	-41.62	≤-20.74	PASS
		2480	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-66.34	≤-20.55	PASS
			1000~26500	-0.55	-44.39	≤-20.55	PASS
2DH5	Ant1	2402	Reference	-4.59	-4.59	---	PASS
			30~1000	-4.59	-67.67	≤-24.59	PASS
			1000~26500	-4.59	-47.82	≤-24.59	PASS
		2441	Reference	-6.49	-6.49	---	PASS
			30~1000	-6.49	-59.68	≤-26.49	PASS
			1000~26500	-6.49	-49.29	≤-26.49	PASS
		2480	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-67.63	≤-23.95	PASS
			1000~26500	-3.95	-50.44	≤-23.95	PASS
3DH5	Ant1	2402	Reference	-4.67	-4.67	---	PASS
			30~1000	-4.67	-67	≤-24.67	PASS
			1000~26500	-4.67	-47.58	≤-24.67	PASS
		2441	Reference	-6.08	-6.08	---	PASS
			30~1000	-6.08	-67.36	≤-26.08	PASS
			1000~26500	-6.08	-48.86	≤-26.08	PASS
		2480	Reference	-5.27	-5.27	---	PASS
			30~1000	-5.27	-67.69	≤-25.27	PASS
			1000~26500	-5.27	-48.17	≤-25.27	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

