

FCC Appendix RF Test Data

FCC ID : 2BQUY-BR01

Company : Shenzhen Yiteng Technology Co., Ltd.

EUT : BR01 Bluetooth Audio Converter

Model Number : BR01

Report No. : CTA25062300101

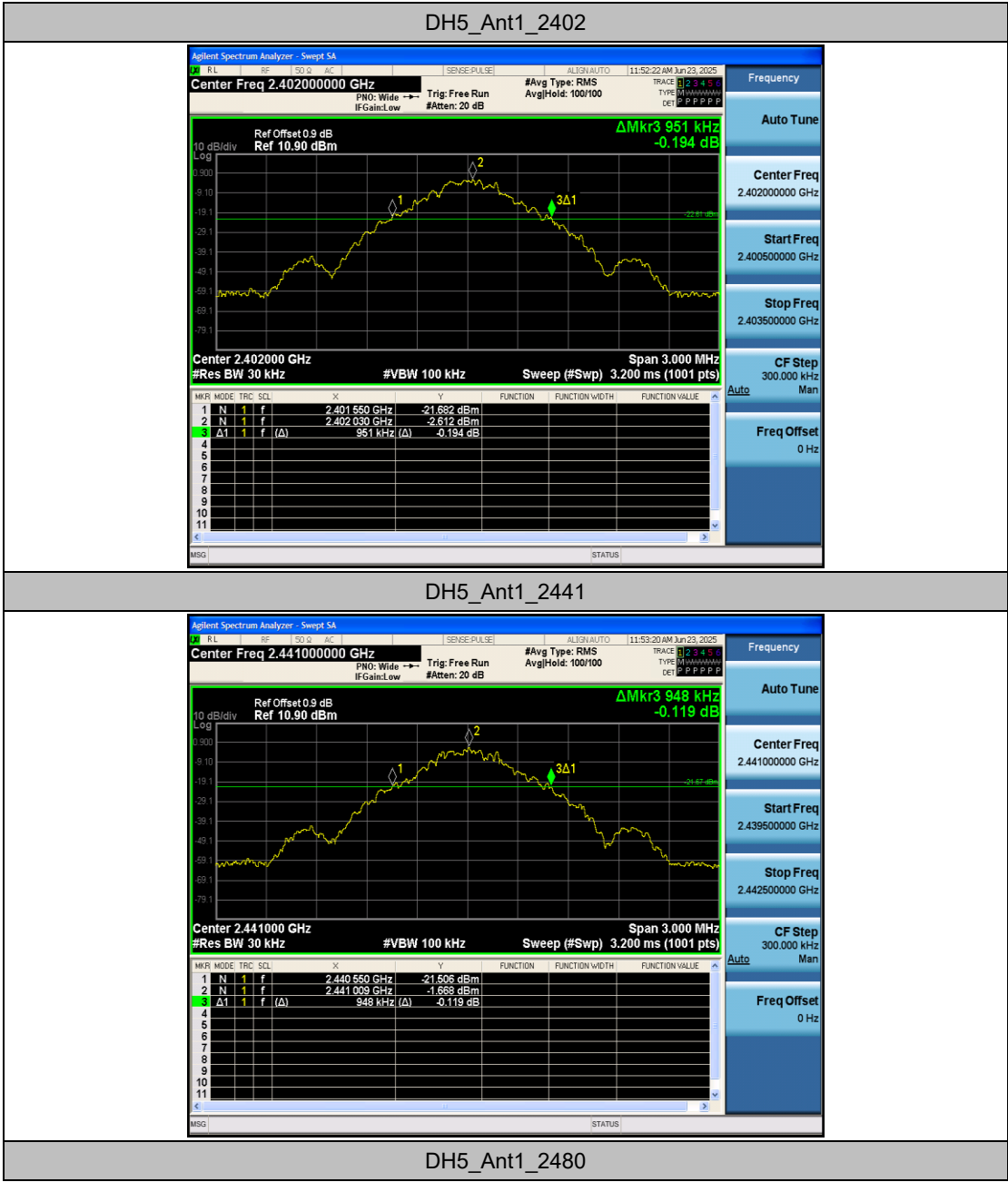
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.550	2402.501	---	---
		2441	0.948	2440.550	2441.498	---	---
		2480	0.927	2479.550	2480.477	---	---
2DH5	Ant1	2402	1.320	2401.346	2402.666	---	---
		2441	1.323	2440.349	2441.672	---	---
		2480	1.284	2479.379	2480.663	---	---
3DH5	Ant1	2402	1.281	2401.364	2402.645	---	---
		2441	1.308	2440.364	2441.672	---	---
		2480	1.305	2479.361	2480.666	---	---

Test Graphs





2DHS_Ant1_2402



2DHS_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

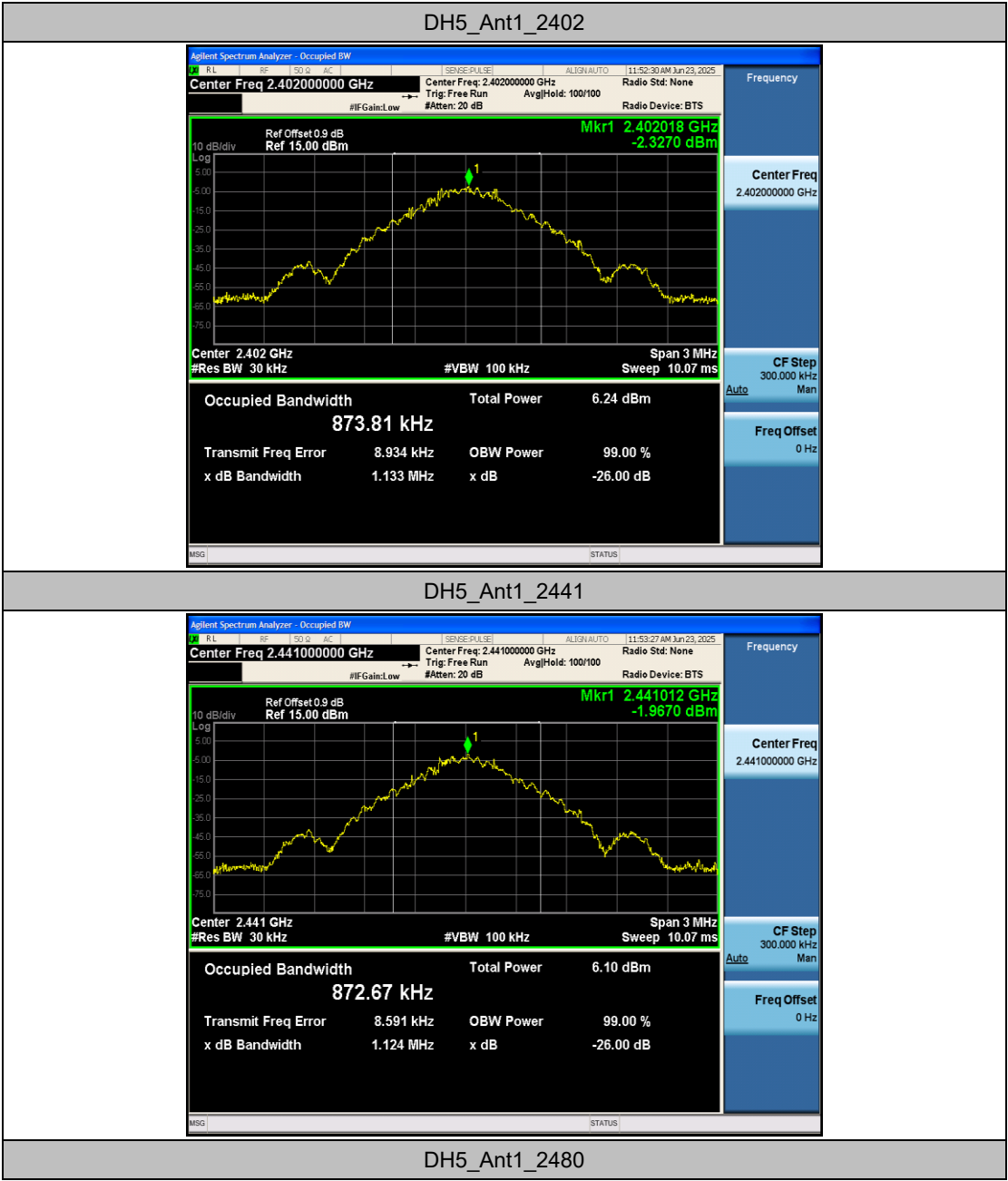


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87381	2401.5720	2402.4458	---	---
		2441	0.87267	2440.5723	2441.4449	---	---
		2480	0.86735	2479.5742	2480.4415	---	---
2DH5	Ant1	2402	1.1870	2401.4158	2402.6028	---	---
		2441	1.1890	2440.4152	2441.6042	---	---
		2480	1.1925	2479.4146	2480.6071	---	---
3DH5	Ant1	2402	1.1881	2401.4156	2402.6037	---	---
		2441	1.1839	2440.4202	2441.6041	---	---
		2480	1.1851	2479.4186	2480.6037	---	---

Test Graphs

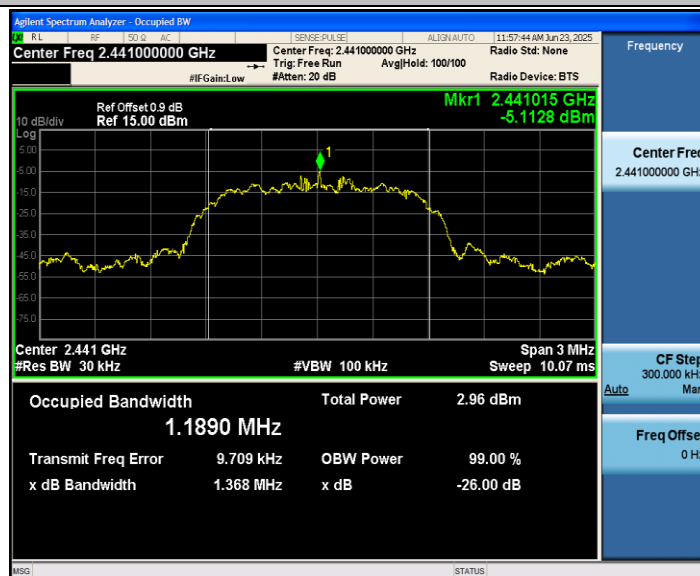




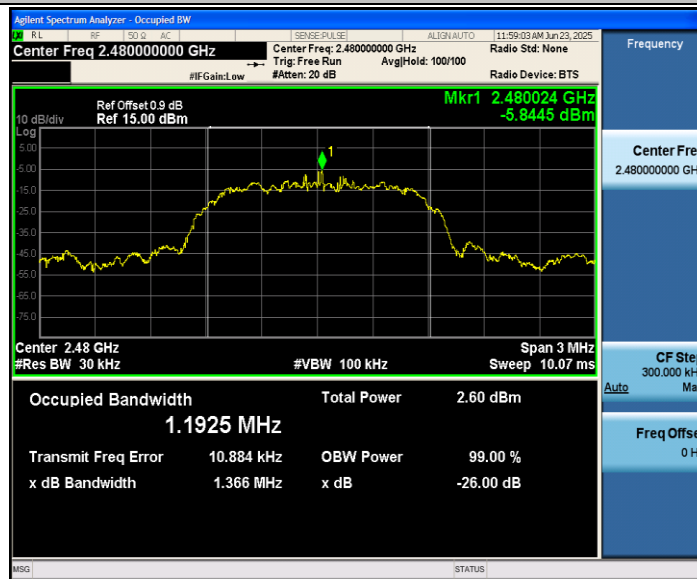
2DH5_Ant1_2402



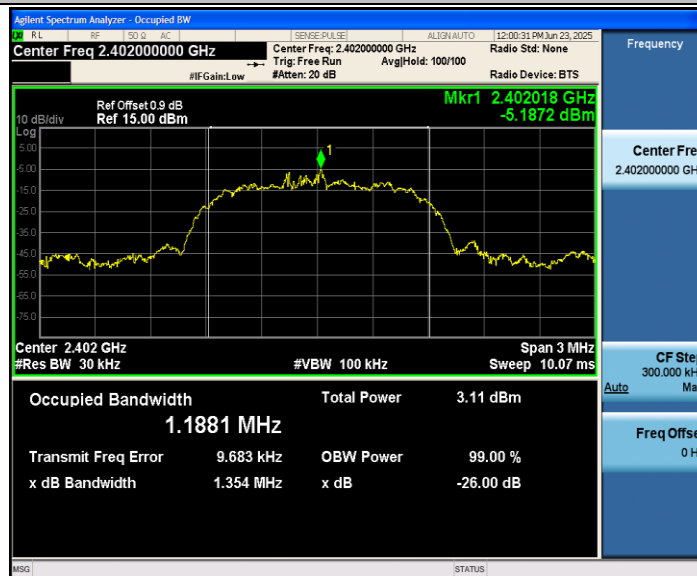
2DH5_Ant1_2441



2DH5_Ant1_2480



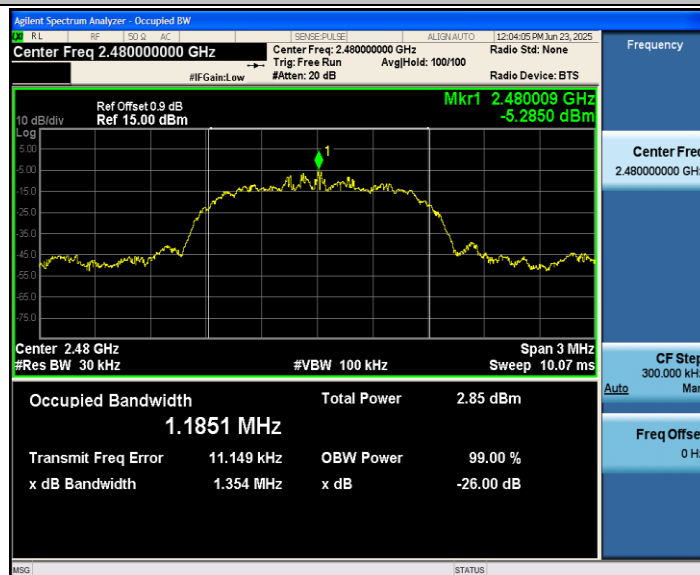
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

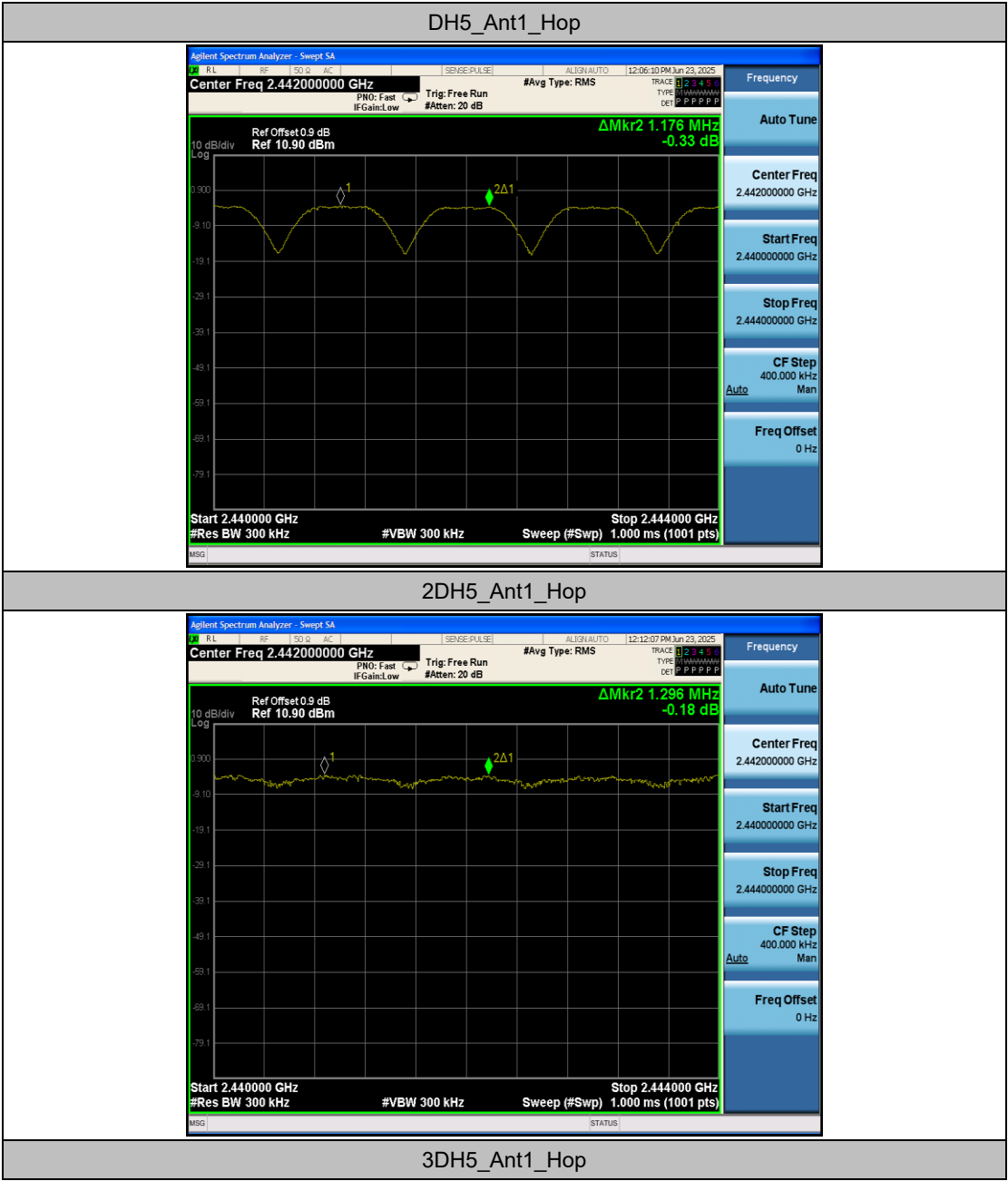
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.43	≤20.97	PASS
		2441	0.24	≤20.97	PASS
		2480	0.16	≤20.97	PASS
2DH5	Ant1	2402	-0.41	≤20.97	PASS
		2441	-0.58	≤20.97	PASS
		2480	-0.65	≤20.97	PASS
3DH5	Ant1	2402	-0.05	≤20.97	PASS
		2441	-0.23	≤20.97	PASS
		2480	-0.28	≤20.97	PASS

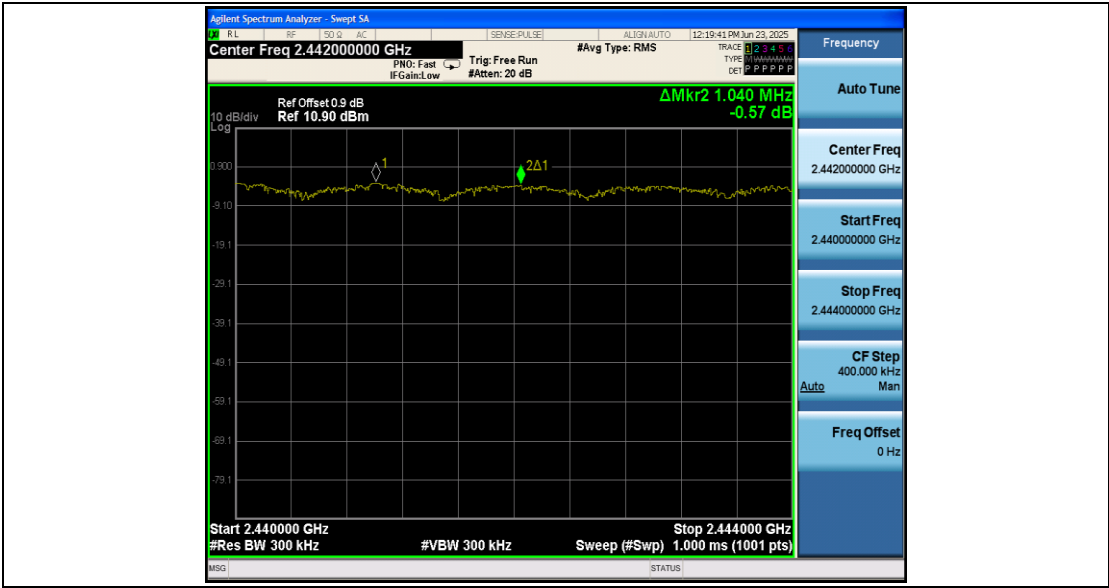
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.176	≥ 0.951	PASS
2DH5	Ant1	Hop	1.296	≥ 0.882	PASS
3DH5	Ant1	Hop	1.04	≥ 0.872	PASS

Test Graphs



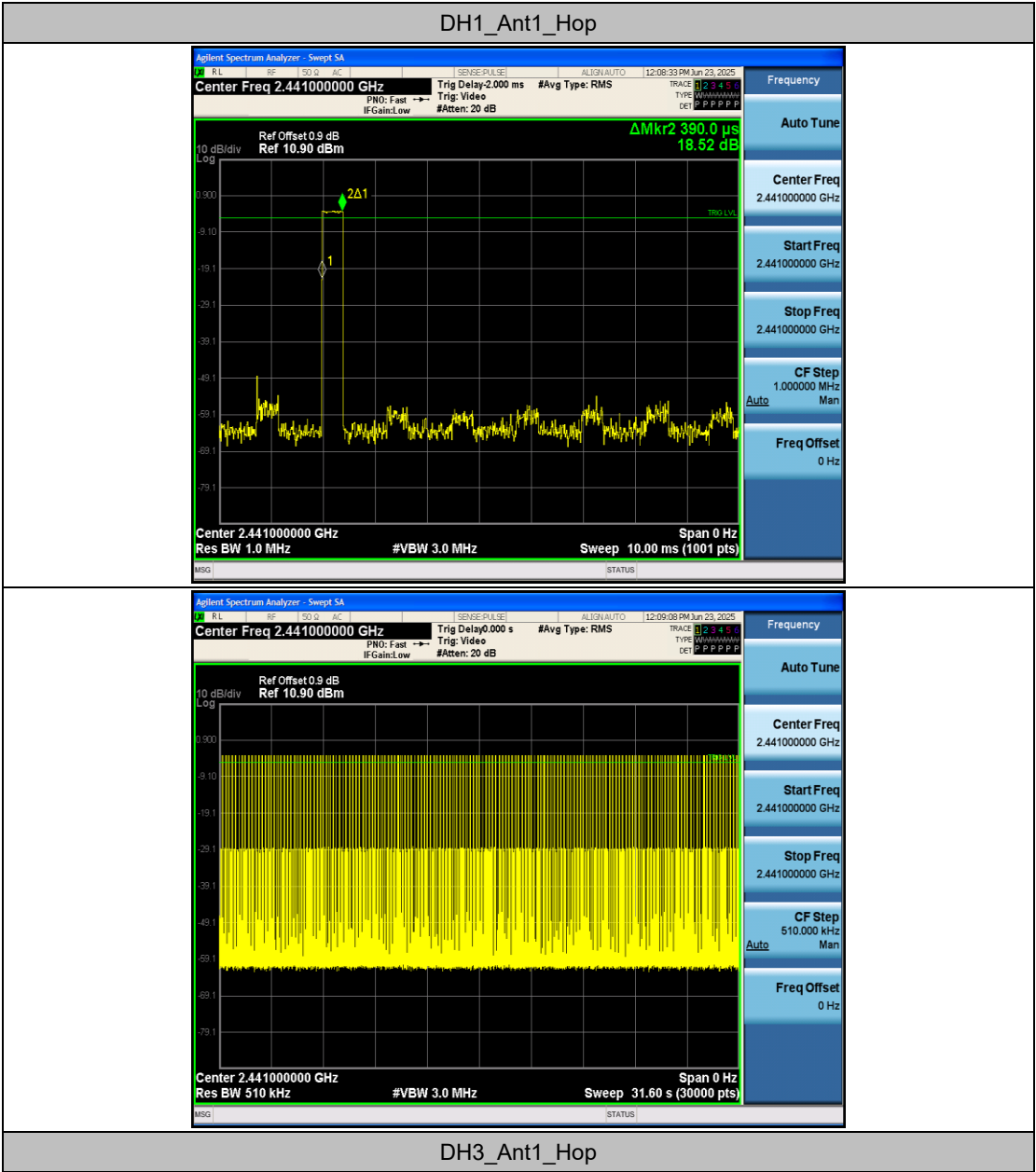


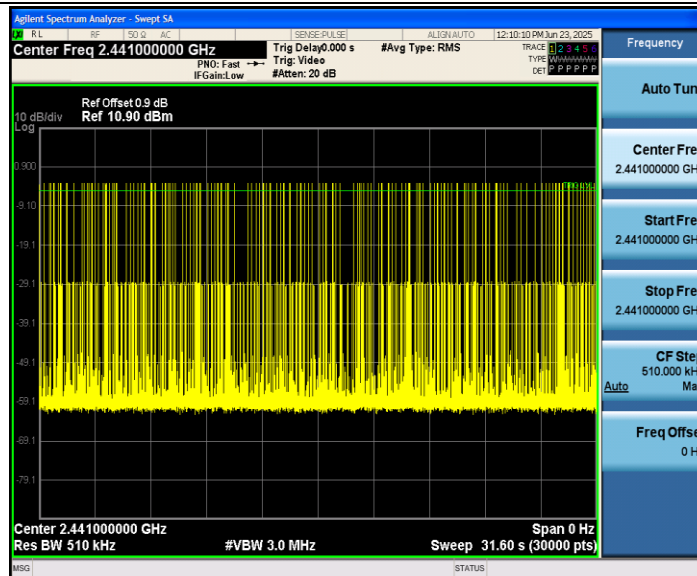
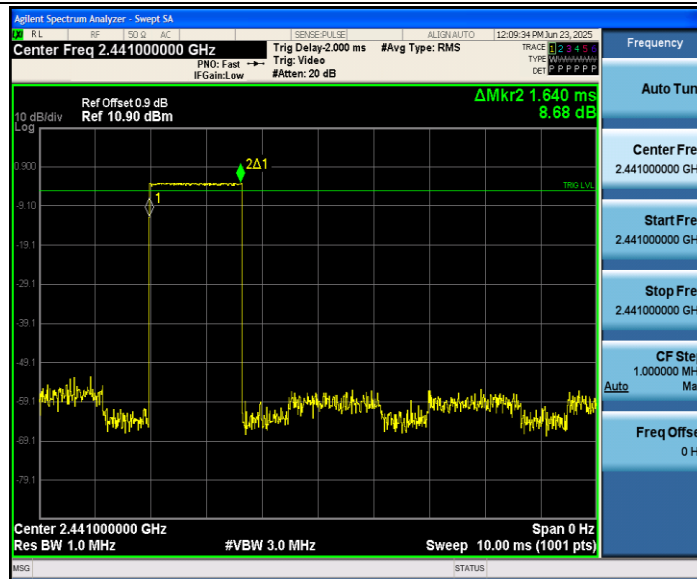
Appendix E: Time of occupancy

Test Result

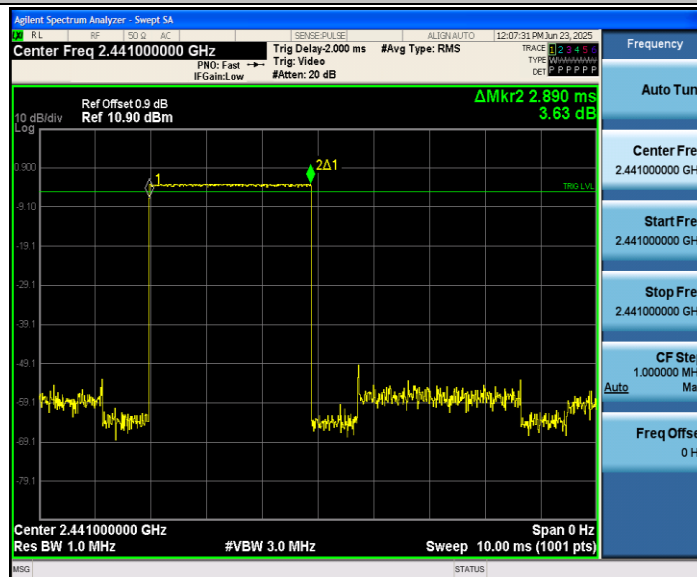
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	162	0.266	≤0.4	PASS
DH5	Ant1	Hop	2.890	118	0.341	≤0.4	PASS
2DH1	Ant1	Hop	0.400	318	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	155	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.900	120	0.348	≤0.4	PASS
3DH1	Ant1	Hop	0.400	320	0.128	≤0.4	PASS
3DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
3DH5	Ant1	Hop	2.900	94	0.273	≤0.4	PASS

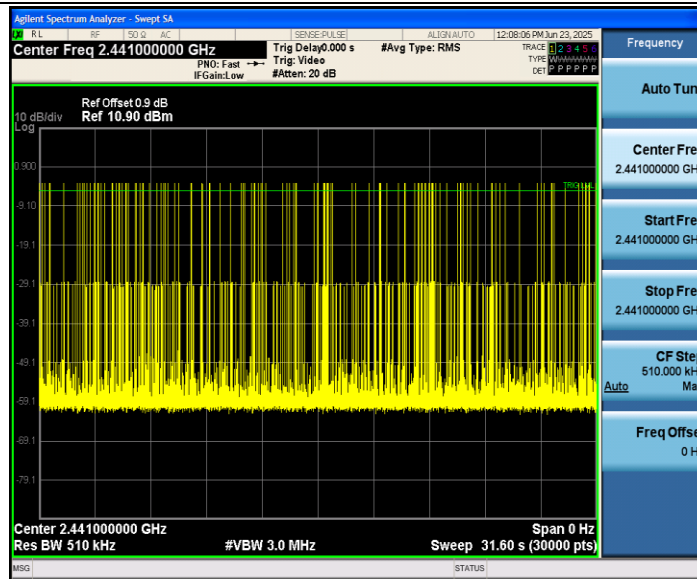
Test Graphs



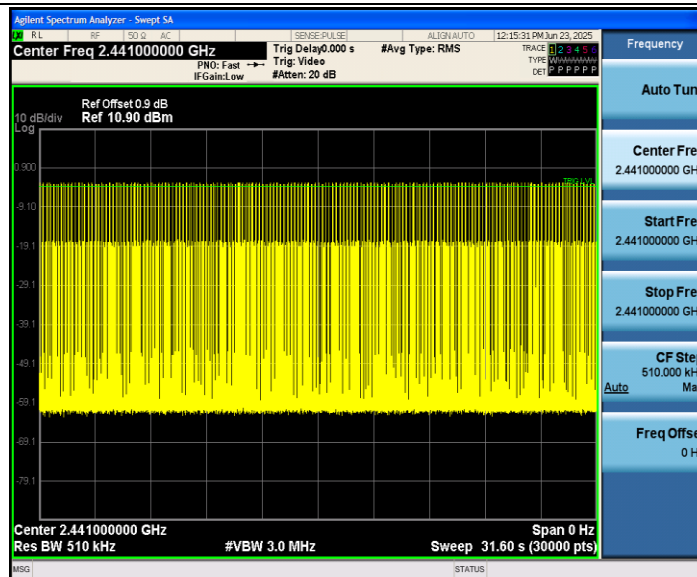
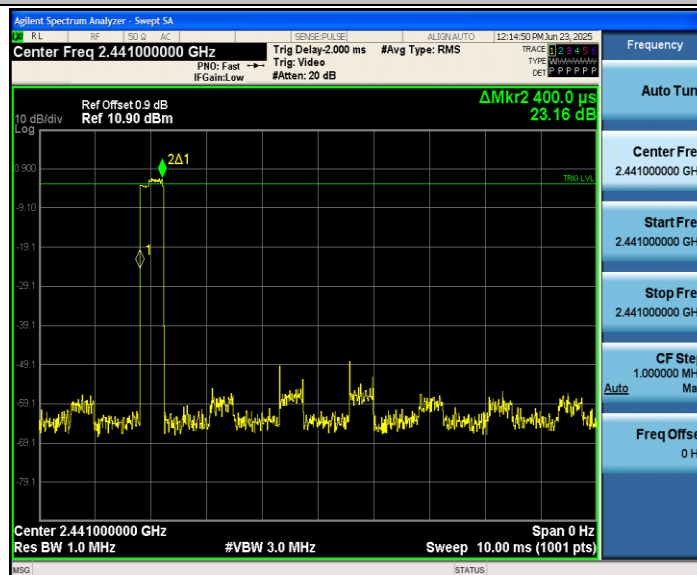


DH5_Ant1_Hop

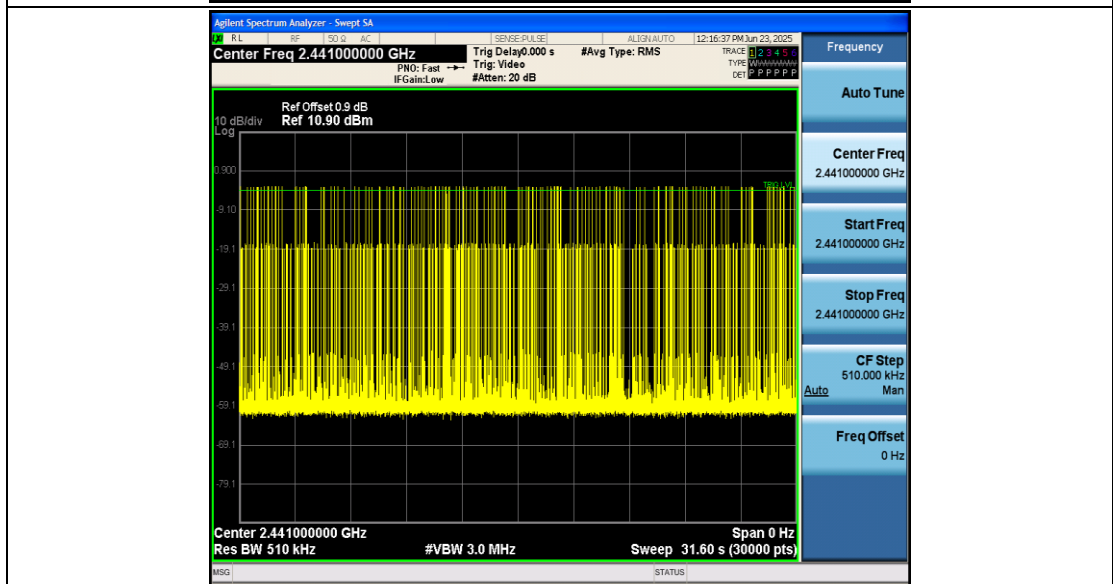
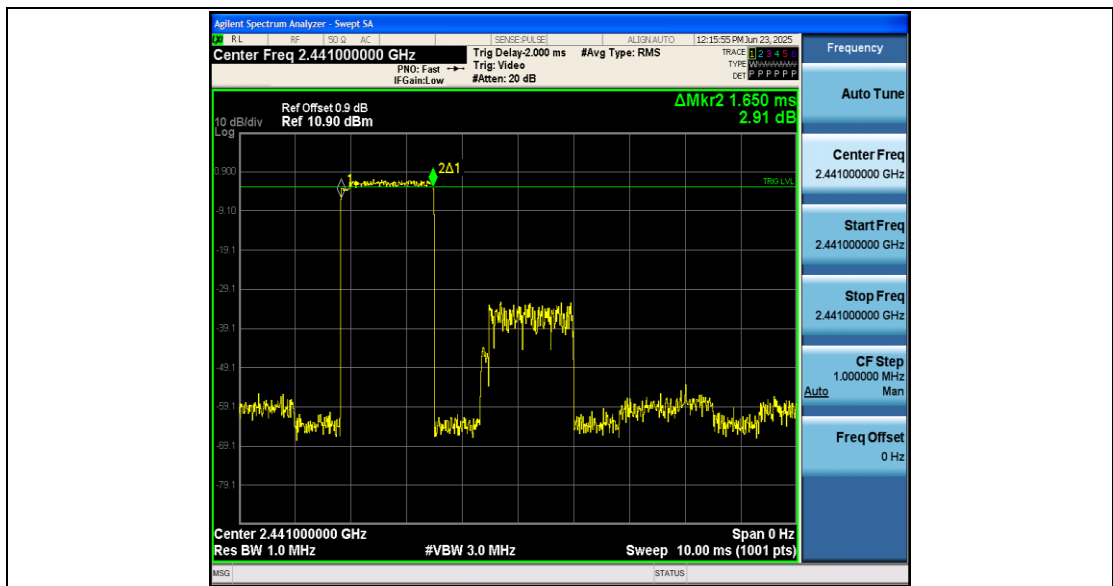




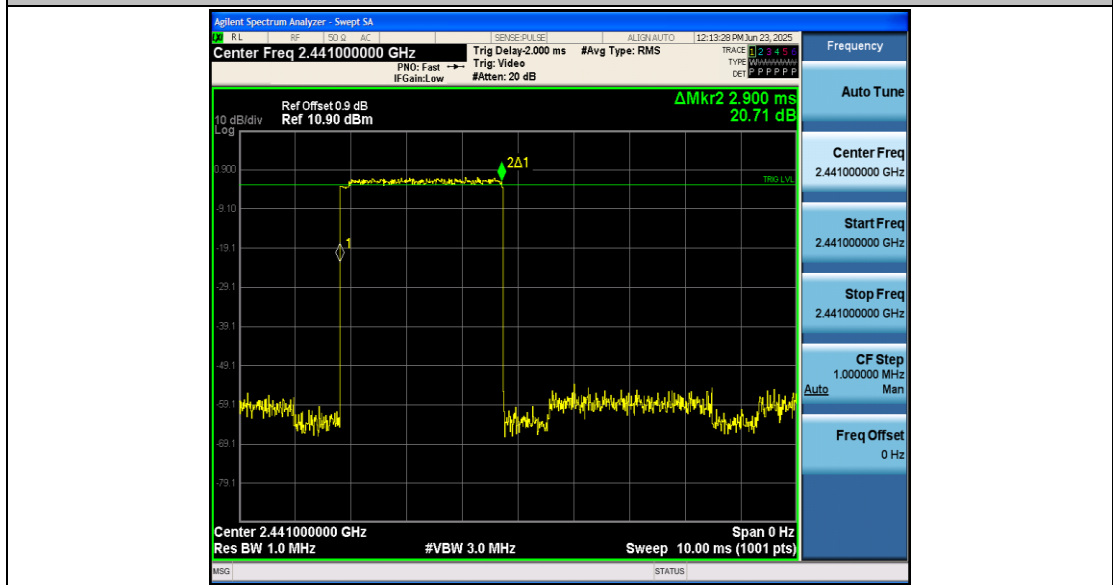
2DH1_Ant1_Hop

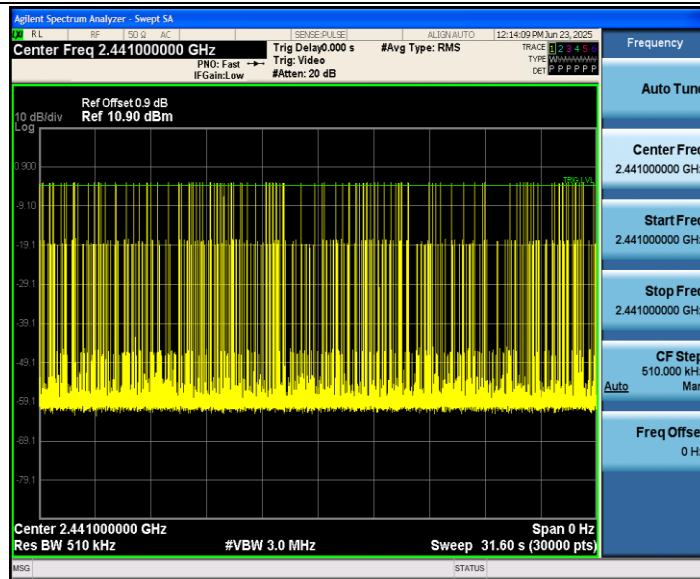


2DH3_Ant1_Hop

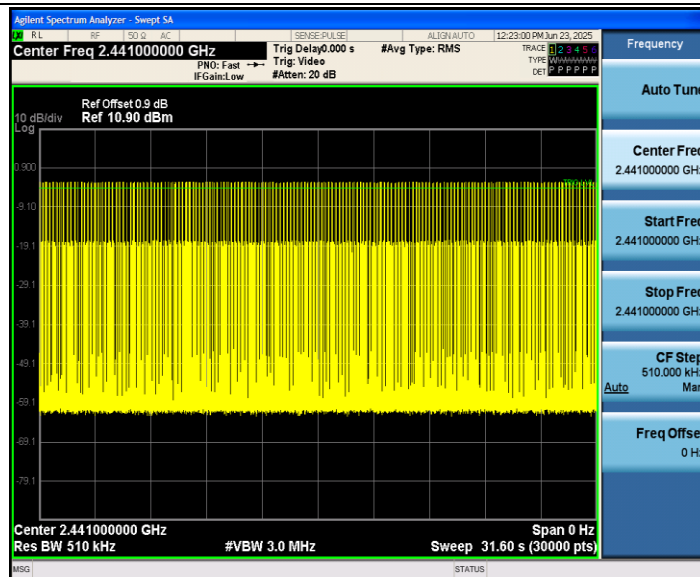
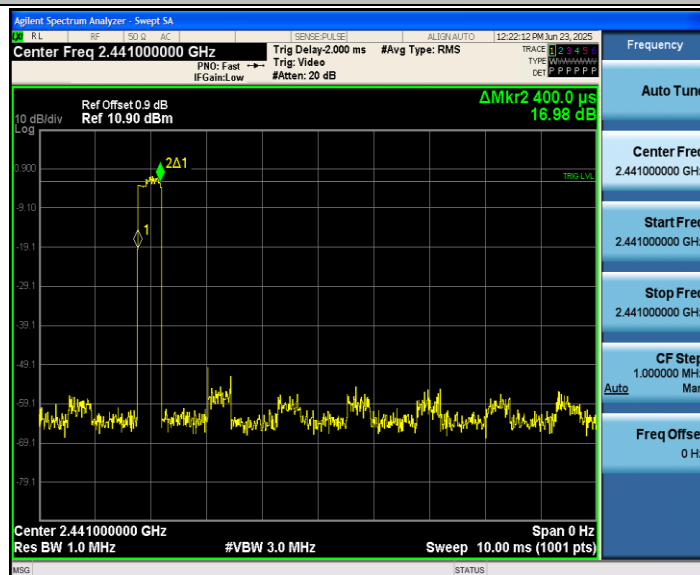


2DH5_Ant1_Hop

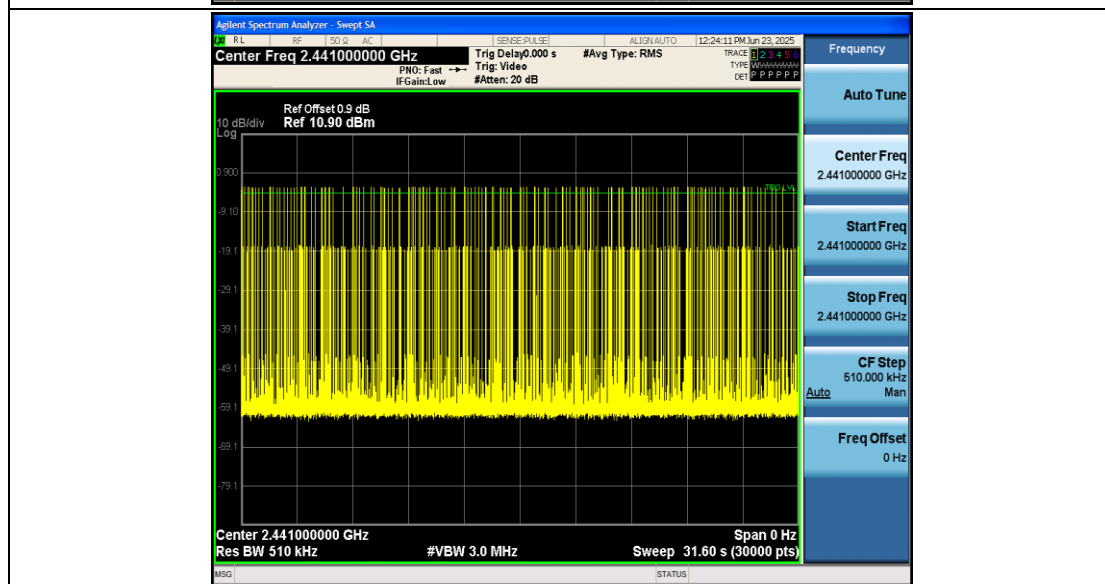




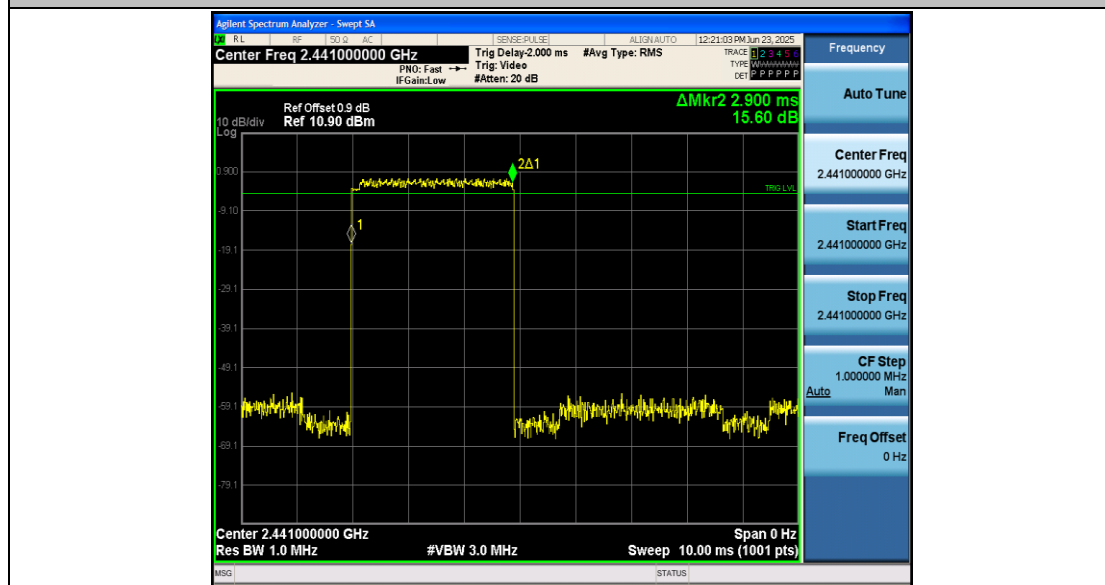
3DH1_Ant1_Hop

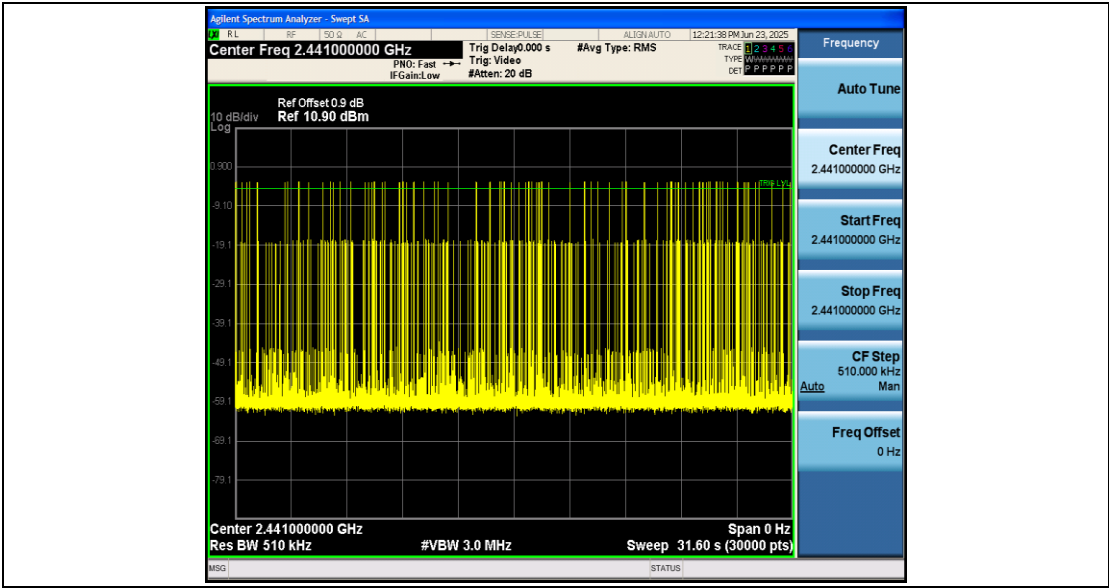


3DH3_Ant1_Hop



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

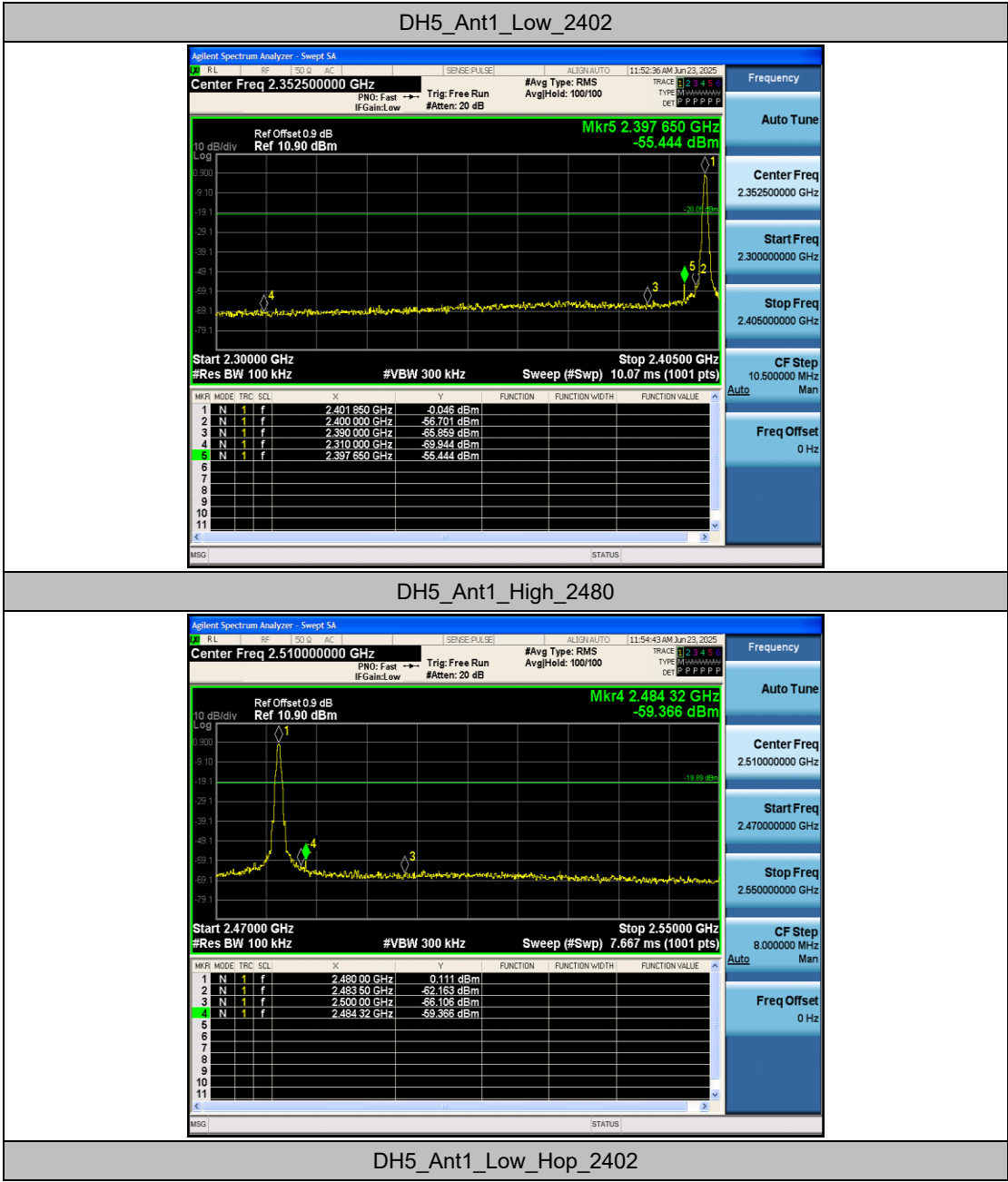


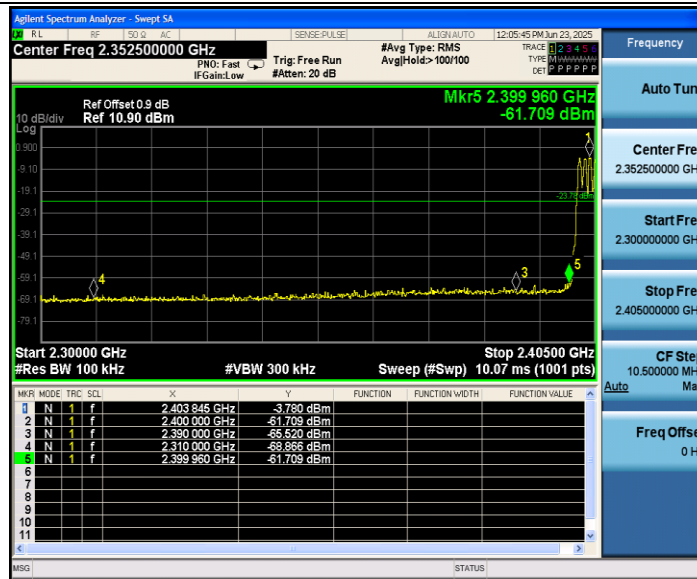
Appendix G: Band edge measurements

Test Result

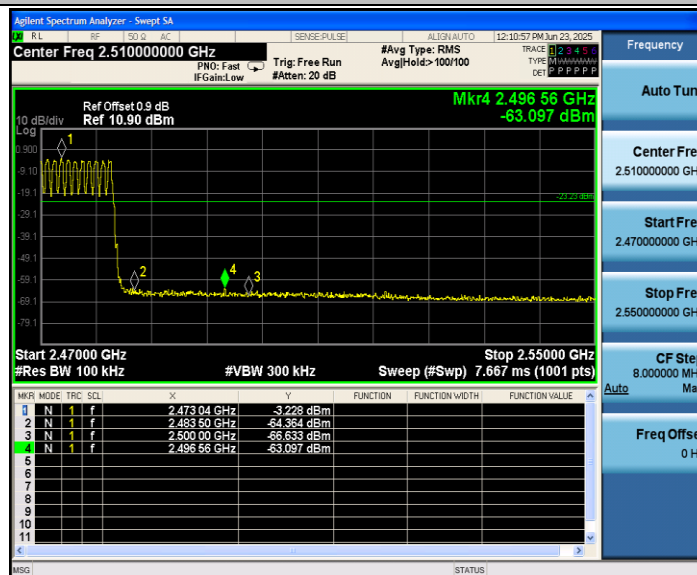
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.05	-55.44	≤-20.05	PASS
		High	2480	0.11	-59.37	≤-19.89	PASS
		Low	Hop_2402	-3.78	-61.71	≤-23.78	PASS
		High	Hop_2480	-3.23	-63.1	≤-23.23	PASS
2DH5	Ant1	Low	2402	-4.08	-58.43	≤-24.08	PASS
		High	2480	-4.16	-64.07	≤-24.16	PASS
		Low	Hop_2402	-3.83	-55.1	≤-23.83	PASS
		High	Hop_2480	-3.36	-57.82	≤-23.36	PASS
3DH5	Ant1	Low	2402	-3.10	-59.87	≤-23.1	PASS
		High	2480	-3.86	-63.99	≤-23.86	PASS
		Low	Hop_2402	-3.23	-60.35	≤-23.23	PASS
		High	Hop_2480	-3.39	-59.27	≤-23.39	PASS

Test Graphs

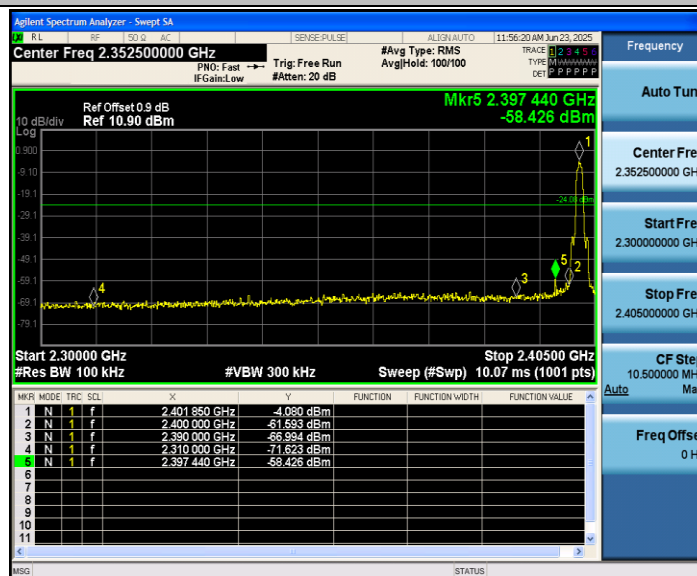




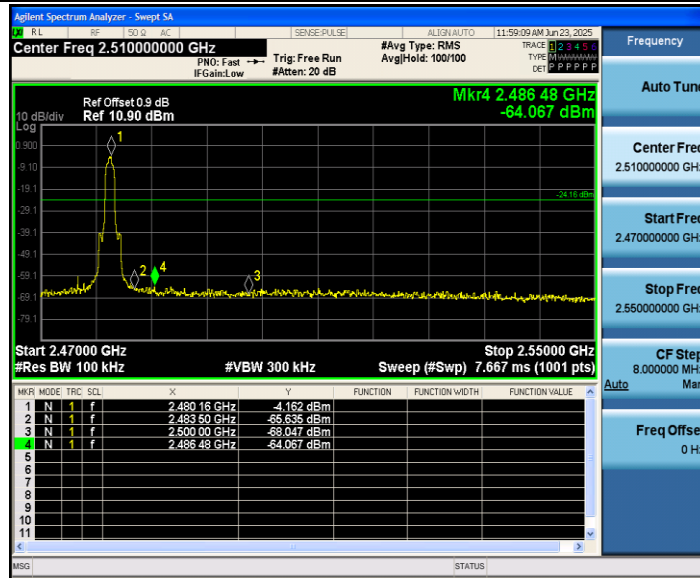
DH5_Ant1_High_Hop_2480



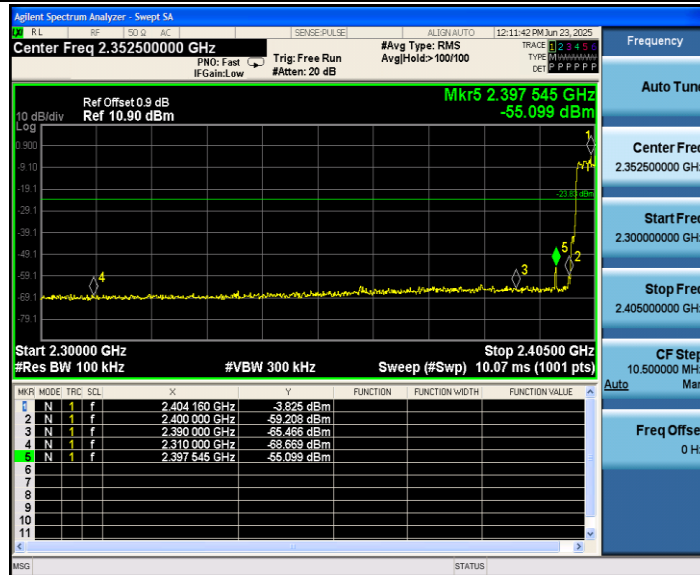
2DH5_Ant1_Low_2402



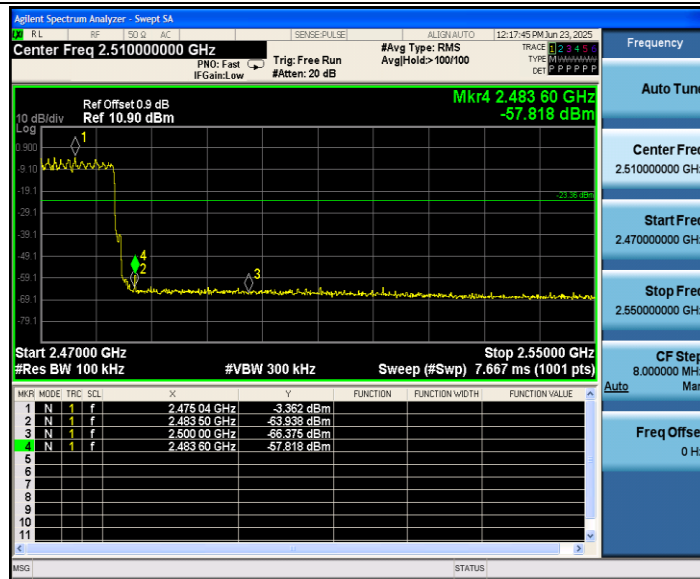
2DH5_Ant1_High_2480



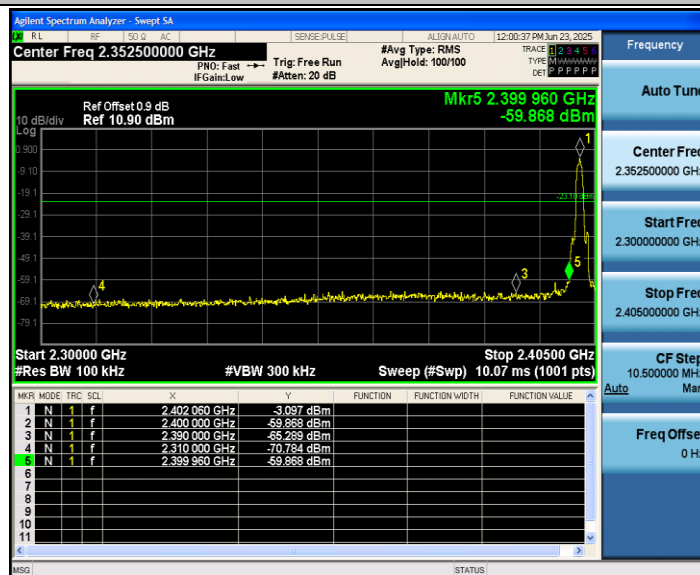
2DH5_Ant1_Low_Hop_2402



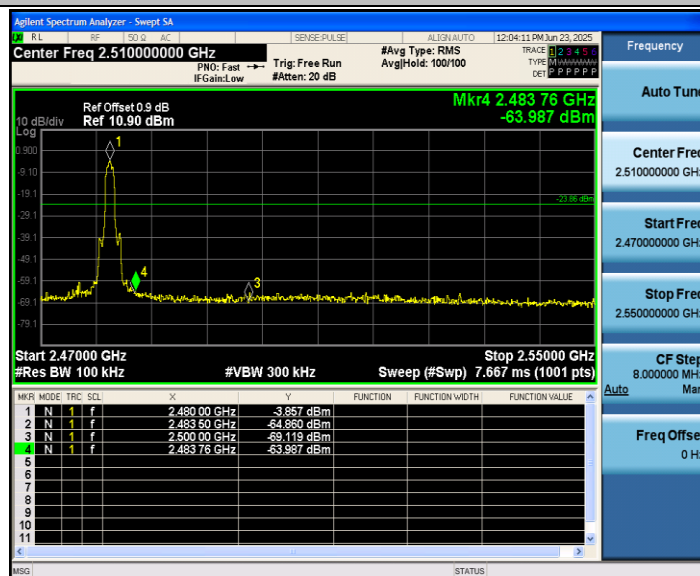
2DH5_Ant1_High_Hop_2480



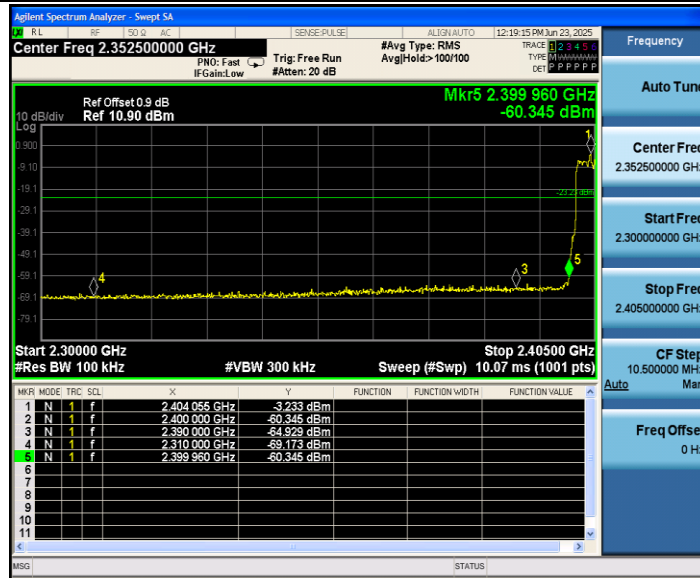
3DH5_Ant1_Low_2402



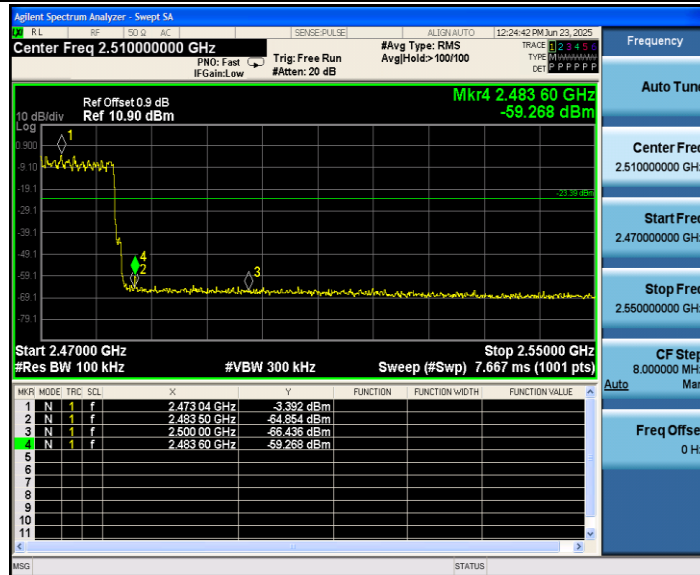
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

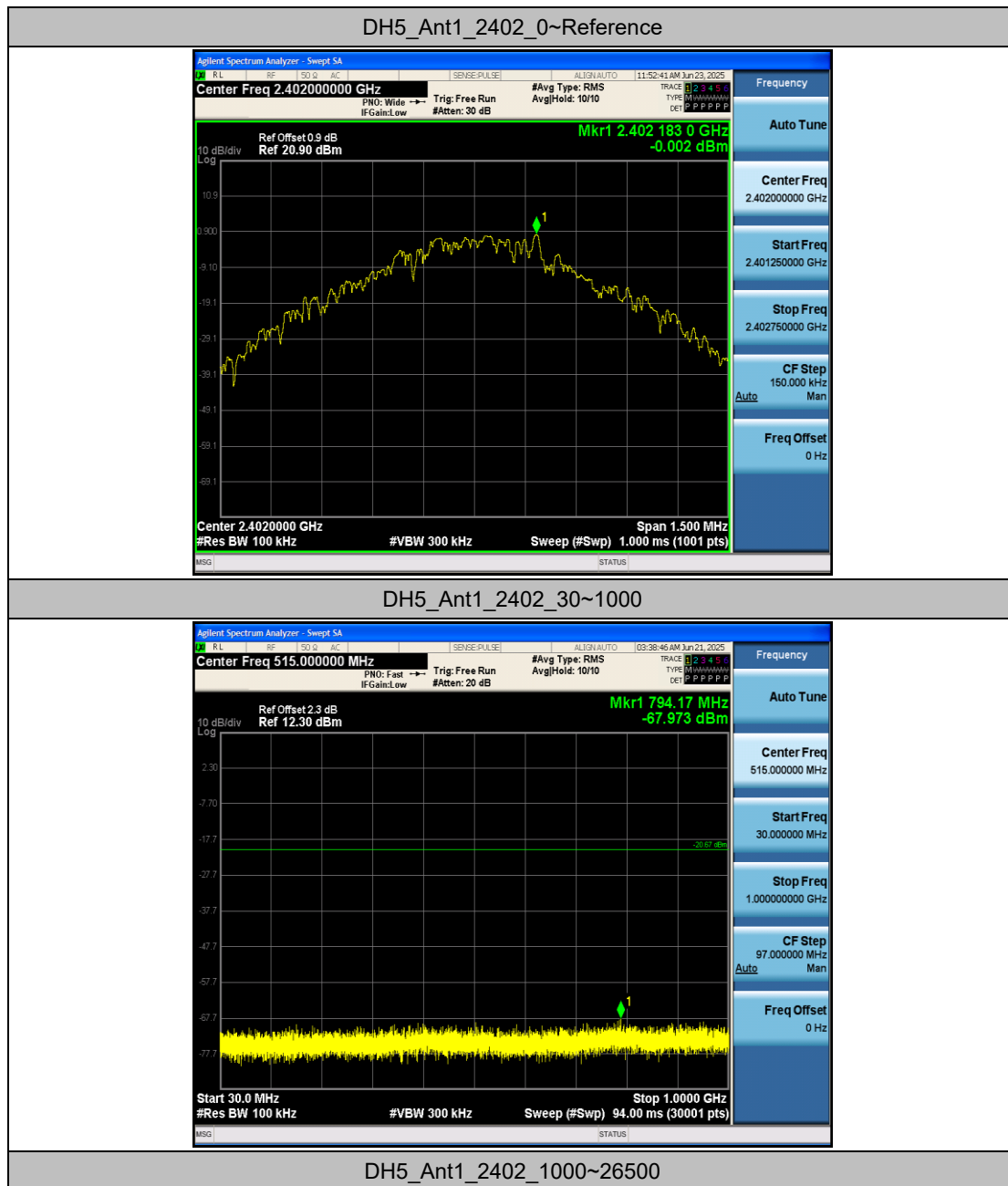


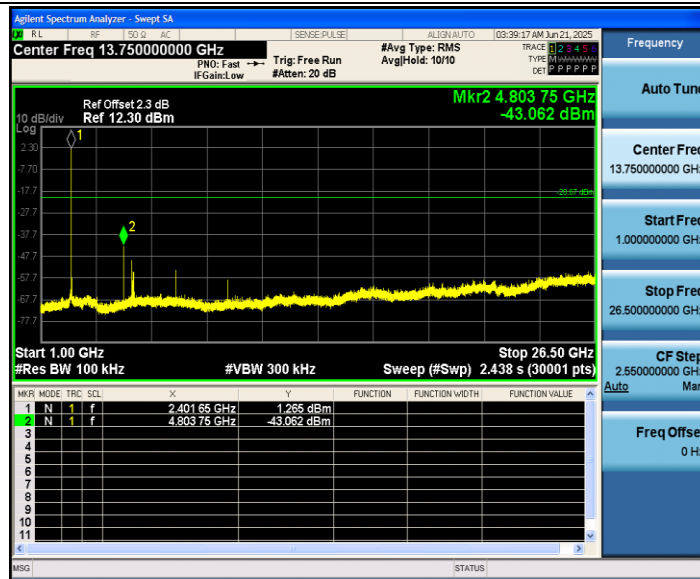
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.00	0.00	---	PASS
			30~1000	-0.67	-67.97	≤-20.67	PASS
			1000~26500	-0.67	-43.06	≤-20.67	PASS
		2441	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.89	-67.77	≤-20.89	PASS
			1000~26500	-0.89	-45.3	≤-20.89	PASS
		2480	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-67.48	≤-20.97	PASS
			1000~26500	-0.97	-41.54	≤-20.97	PASS
2DH5	Ant1	2402	Reference	-5.36	-5.36	---	PASS
			30~1000	-5.36	-67.71	≤-25.36	PASS
			1000~26500	-5.36	-46.04	≤-25.36	PASS
		2441	Reference	-6.61	-6.61	---	PASS
			30~1000	-6.61	-67.48	≤-26.61	PASS
			1000~26500	-6.61	-50.38	≤-26.61	PASS
		2480	Reference	-4.90	-4.90	---	PASS
			30~1000	-4.90	-67.68	≤-24.9	PASS
			1000~26500	-4.90	-49.88	≤-24.9	PASS
3DH5	Ant1	2402	Reference	-6.00	-6.00	---	PASS
			30~1000	-6.00	-67.18	≤-26	PASS
			1000~26500	-6.00	-45.36	≤-26	PASS
		2441	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-67.99	≤-24.85	PASS
			1000~26500	-4.85	-47.25	≤-24.85	PASS
		2480	Reference	-6.05	-6.05	---	PASS
			30~1000	-6.05	-67.7	≤-26.05	PASS
			1000~26500	-6.05	-45.97	≤-26.05	PASS

Test Graphs

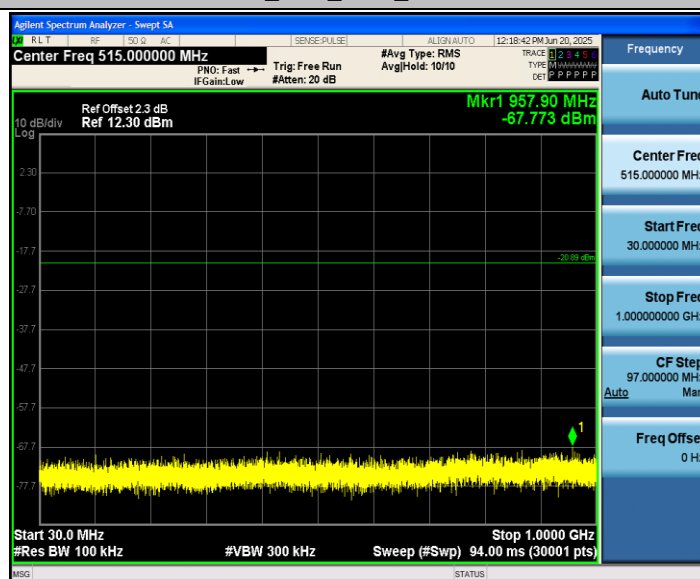




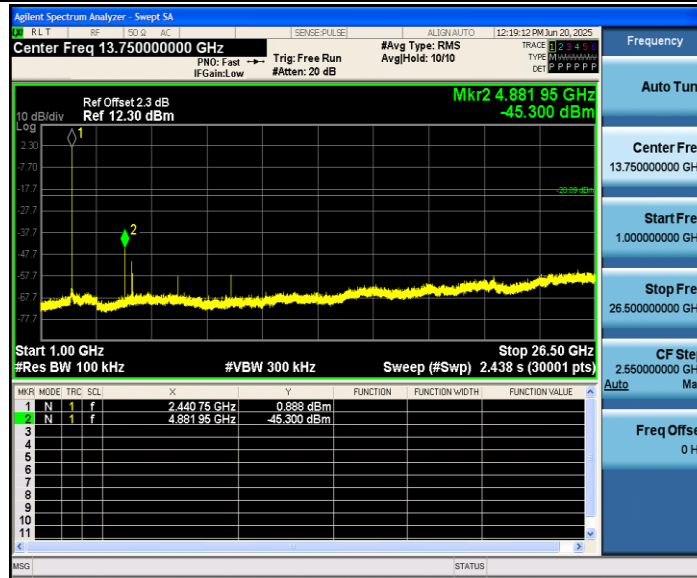
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000