

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Microphone

Test Model: R1

Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

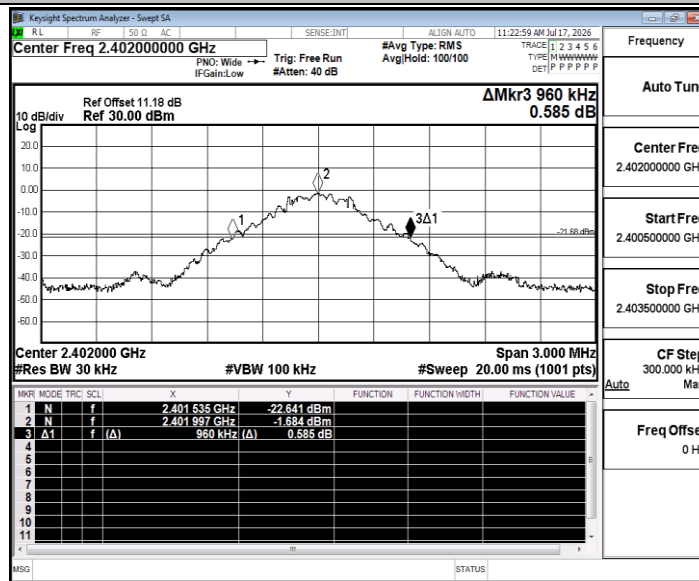
A.1 20dB Emission Bandwidth

Test Result

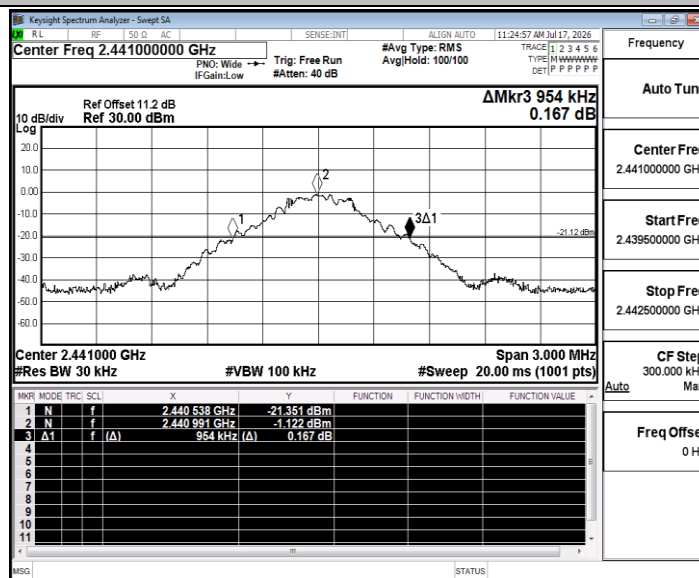
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.535	2402.495	---	---
		2441	0.954	2440.538	2441.492	---	---
		2480	0.966	2479.526	2480.492	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.314	2440.349	2441.663	---	---
		2480	1.314	2479.349	2480.663	---	---
3DH5	Ant1	2402	1.296	2401.358	2402.654	---	---
		2441	1.299	2440.358	2441.657	---	---
		2480	1.299	2479.358	2480.657	---	---

Test Graphs

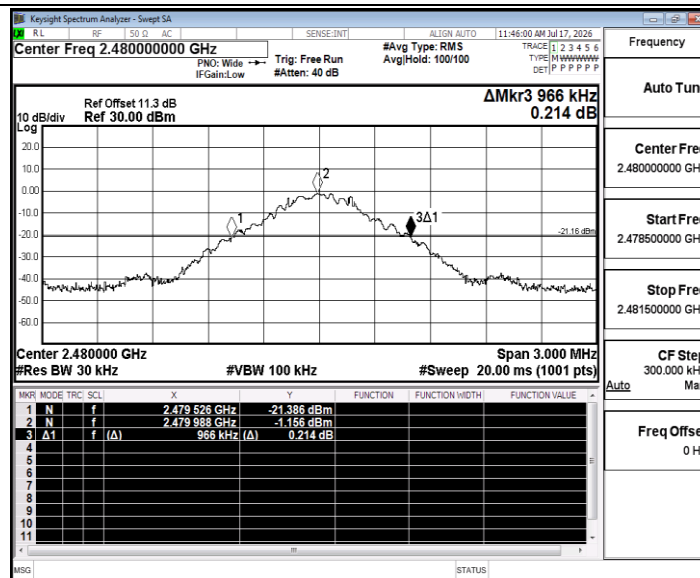
DH5_Ant1_2402



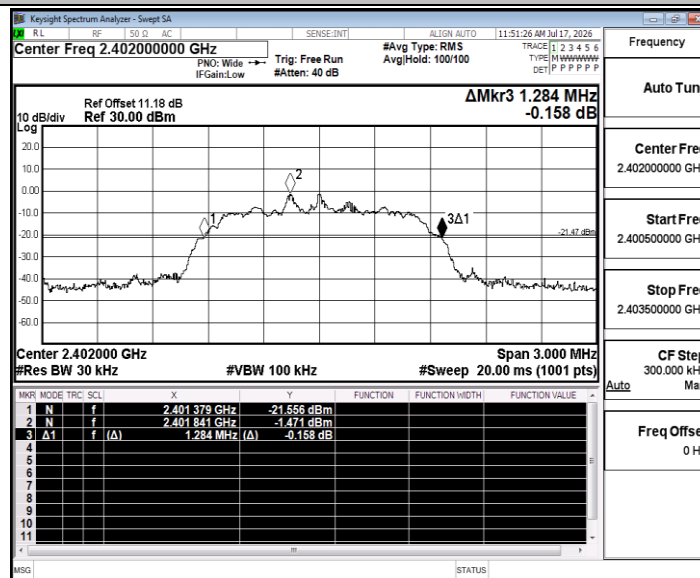
DH5_Ant1_2441



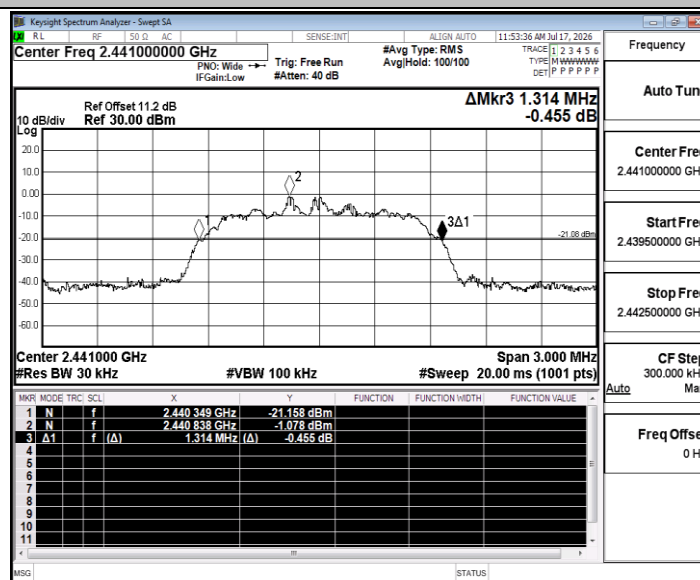
DH5_Ant1_2480



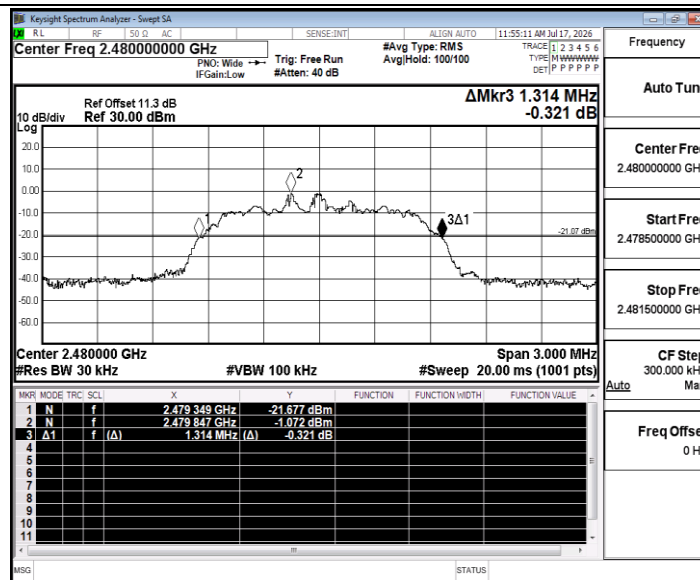
2DH5_Ant1_2402



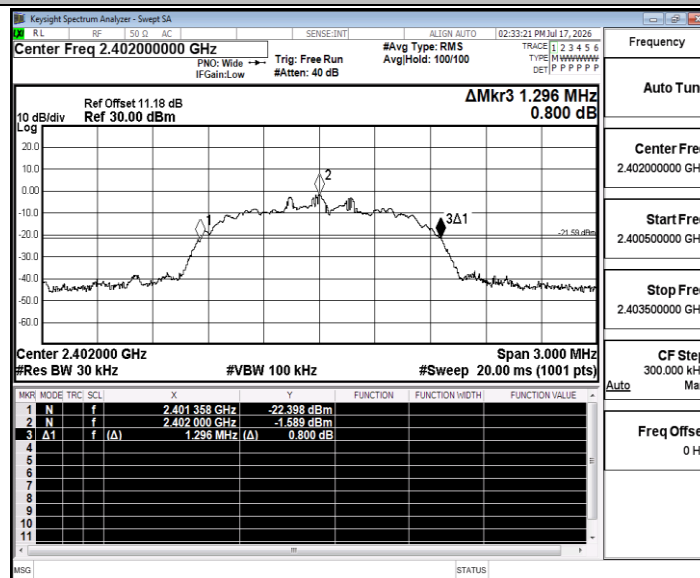
2DH5_Ant1_2441



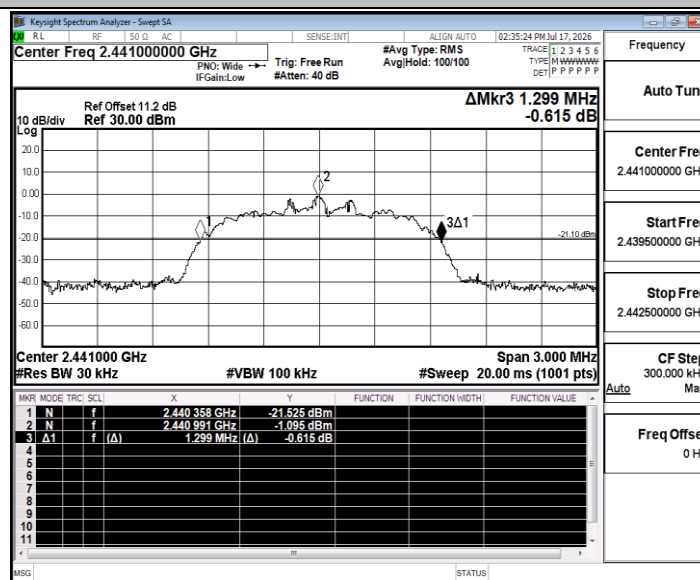
2DH5_Ant1_2480



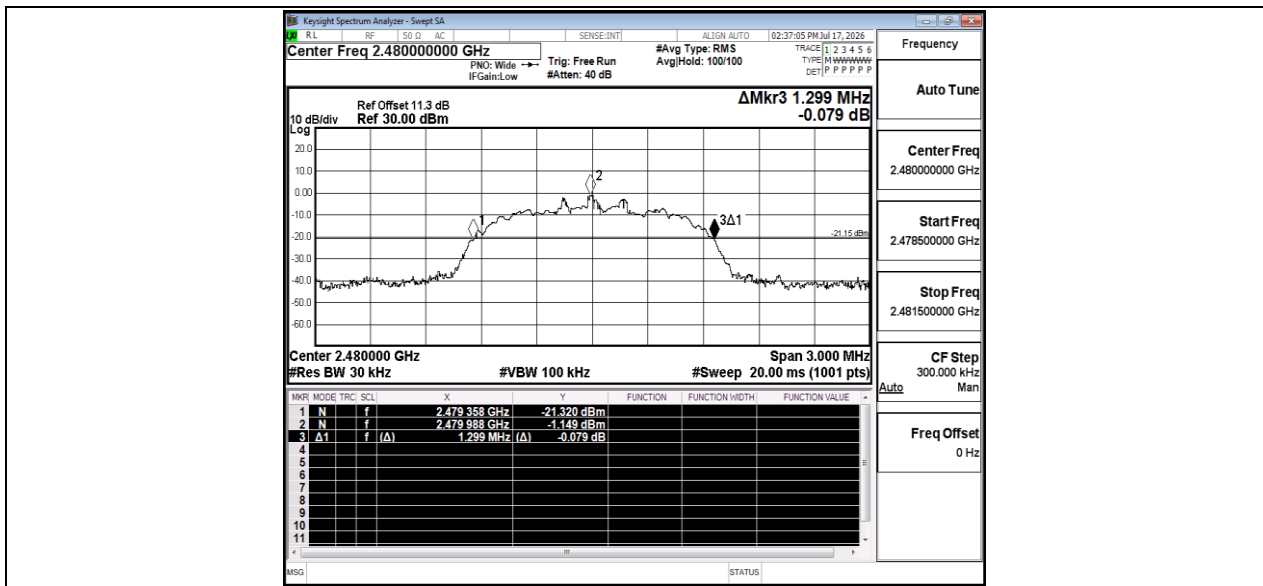
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



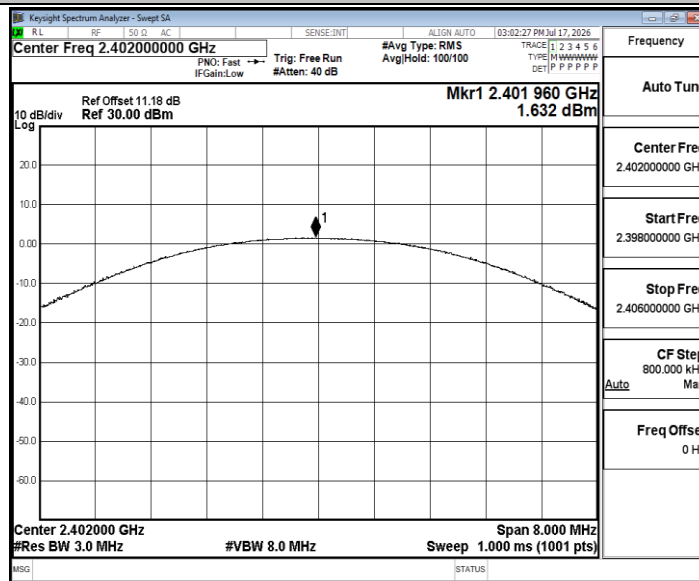
A.2 Maximum Peak conducted output power

Test Result Peak

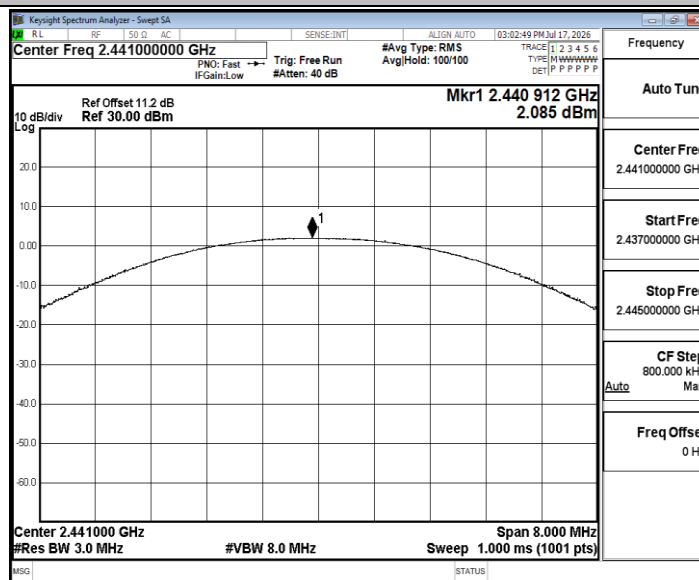
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.63	≤30	PASS
		2441	2.09	≤30	PASS
		2480	2.10	≤30	PASS
2DH5	Ant1	2402	2.23	≤30	PASS
		2441	2.73	≤30	PASS
		2480	2.68	≤30	PASS
3DH5	Ant1	2402	2.52	≤30	PASS
		2441	3.01	≤30	PASS
		2480	2.98	≤30	PASS

Test Graphs

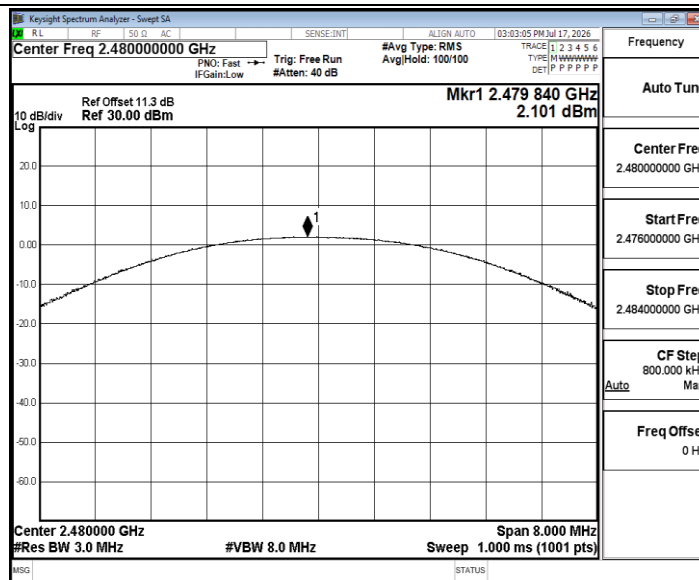
DH5_Ant1_2402



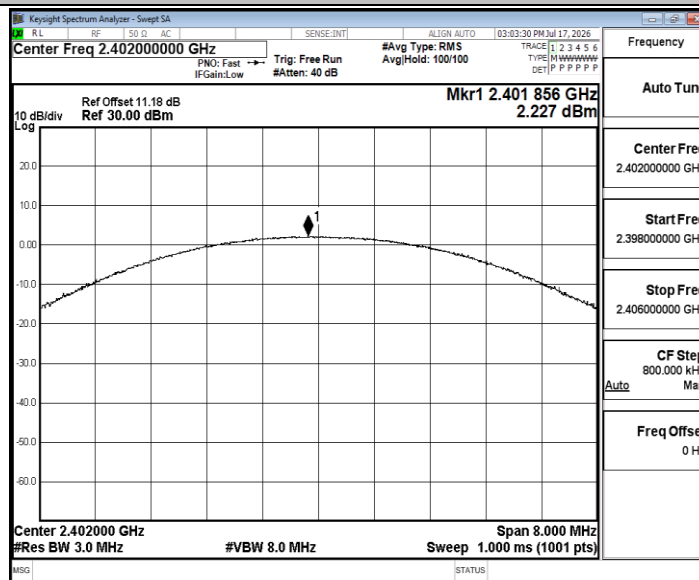
DH5_Ant1_2441



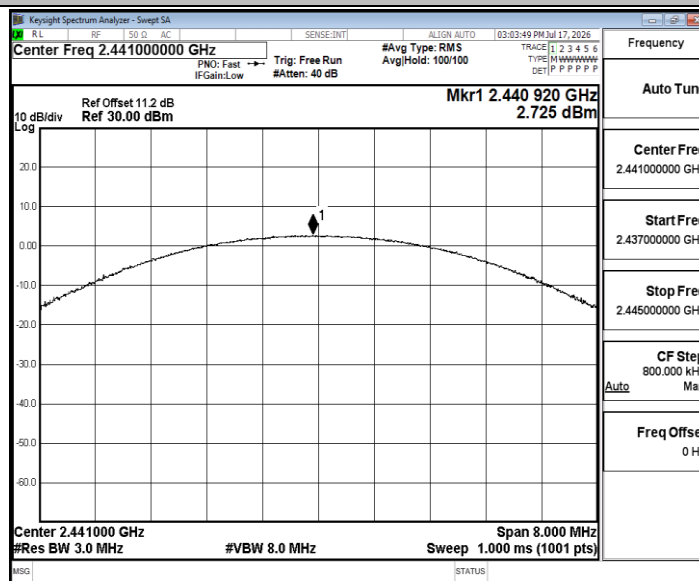
DH5_Ant1_2480



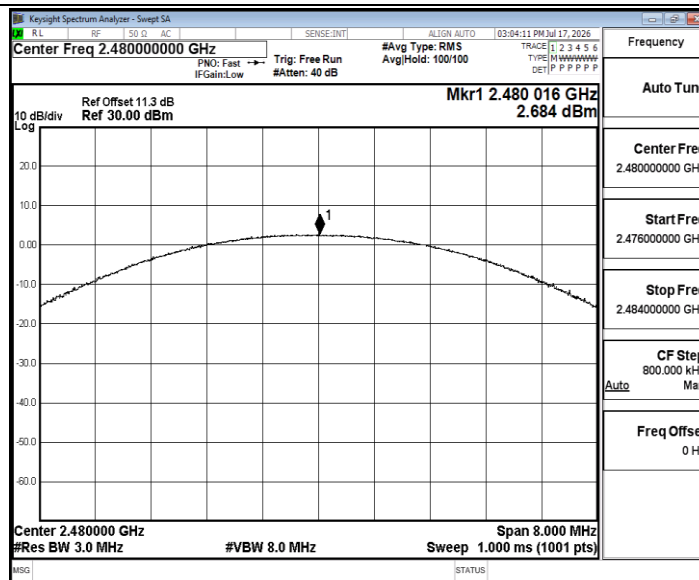
2DH5_Ant1_2402



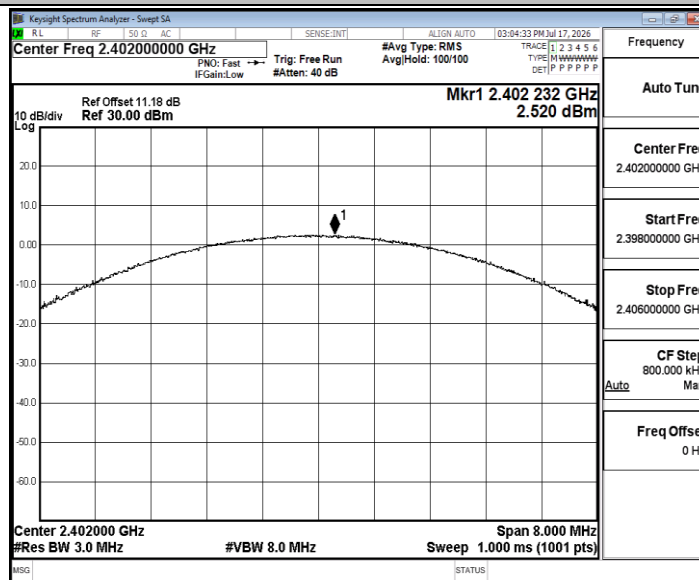
2DH5_Ant1_2441



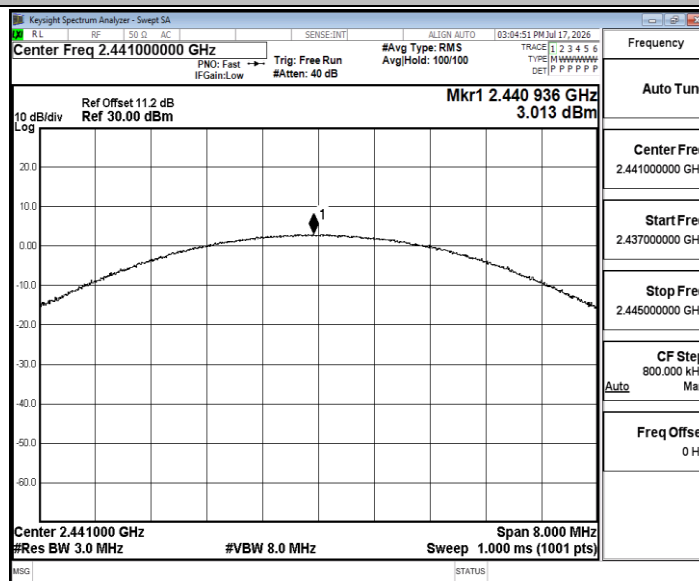
2DH5_Ant1_2480



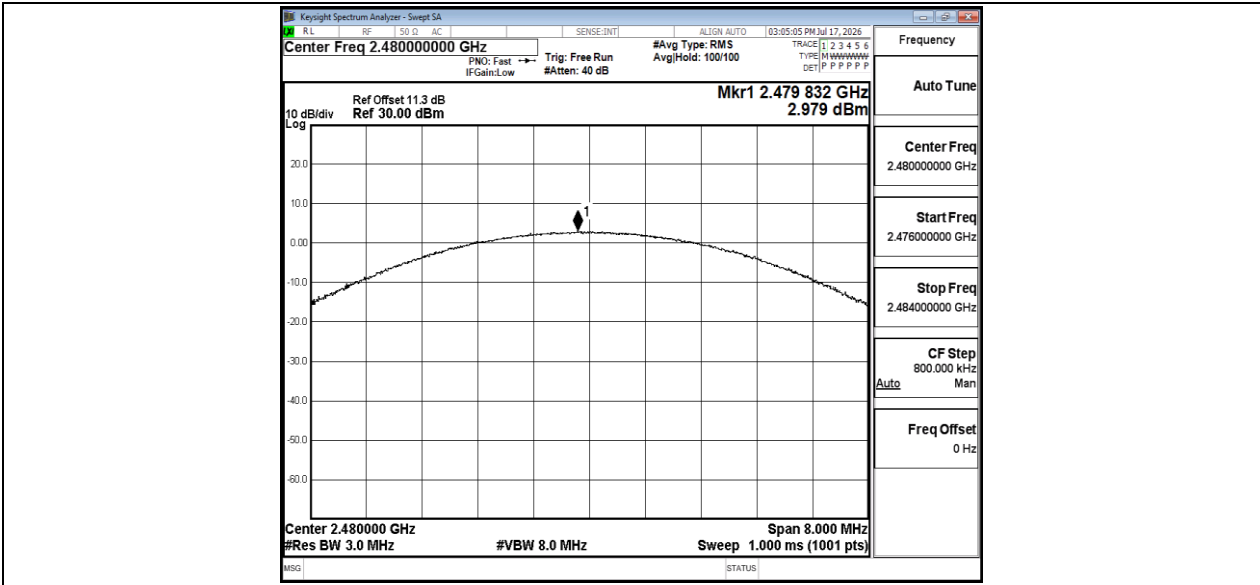
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

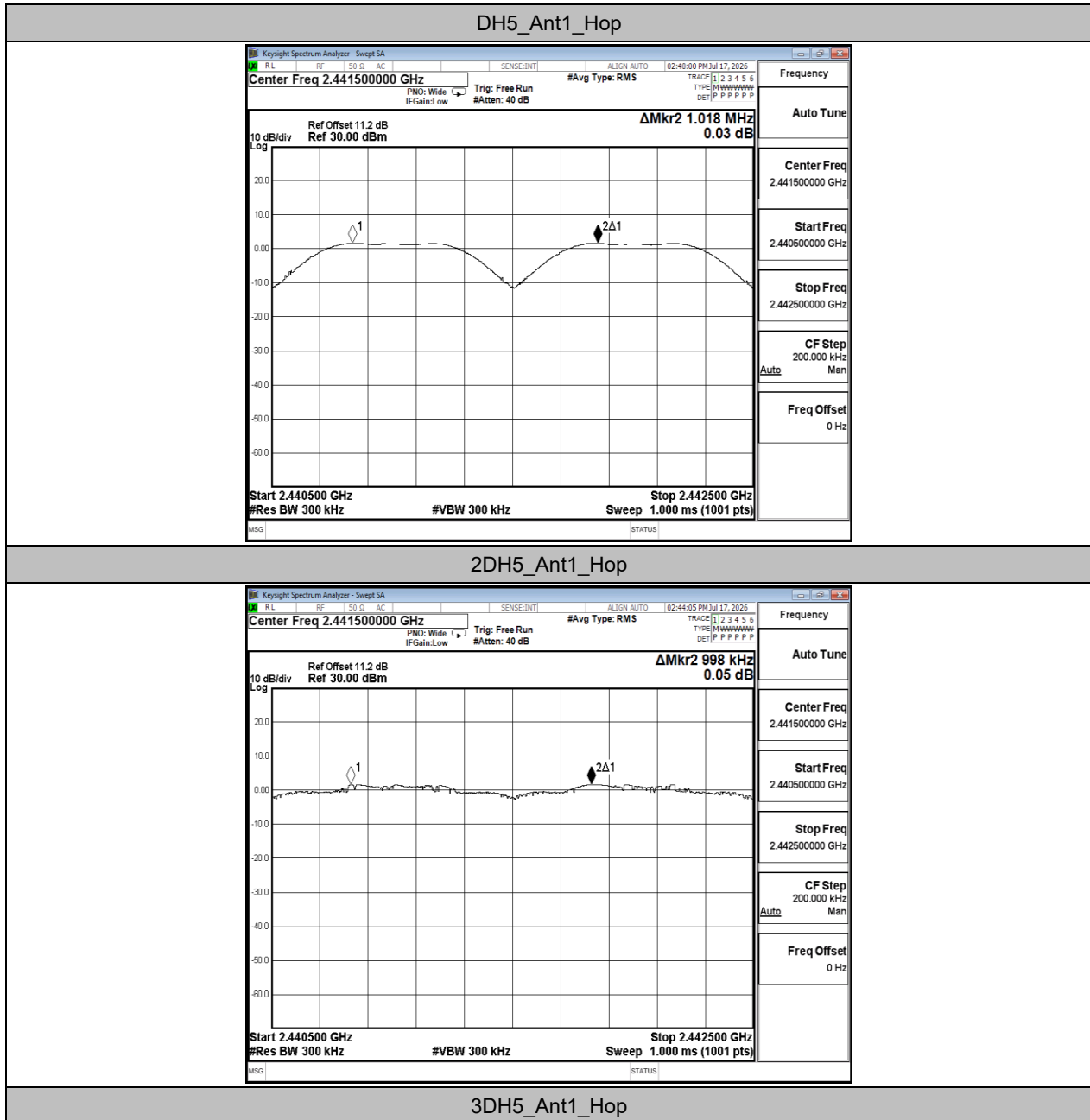


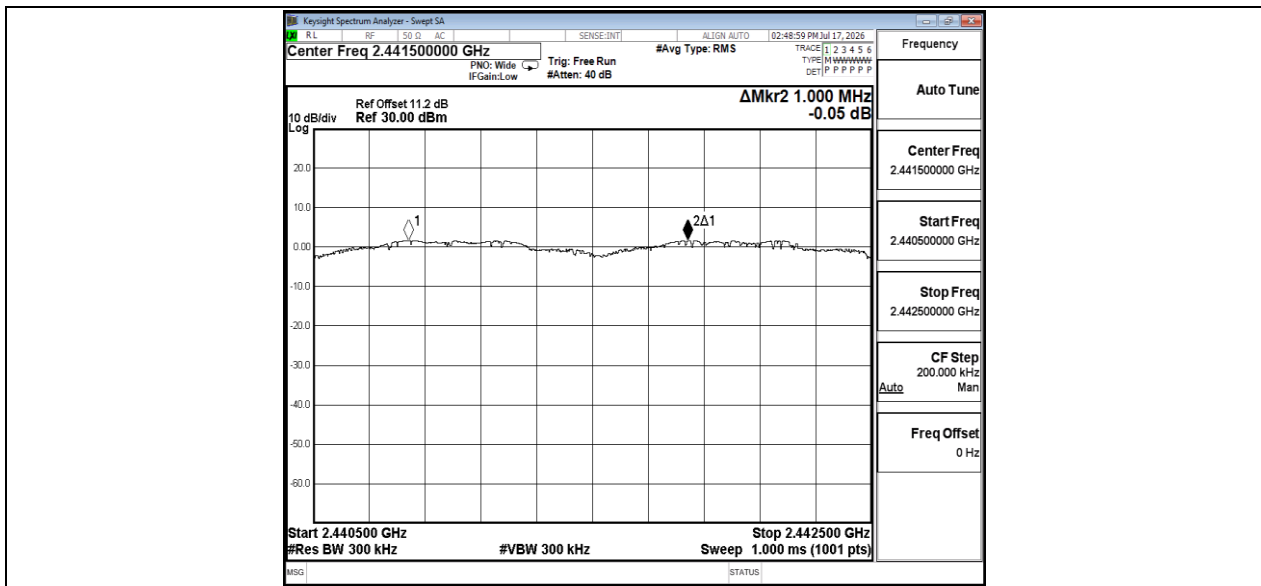
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.018	≥ 0.644	PASS
2DH5	Ant1	Hop	0.998	≥ 0.876	PASS
3DH5	Ant1	Hop	1	≥ 0.866	PASS

Test Graphs



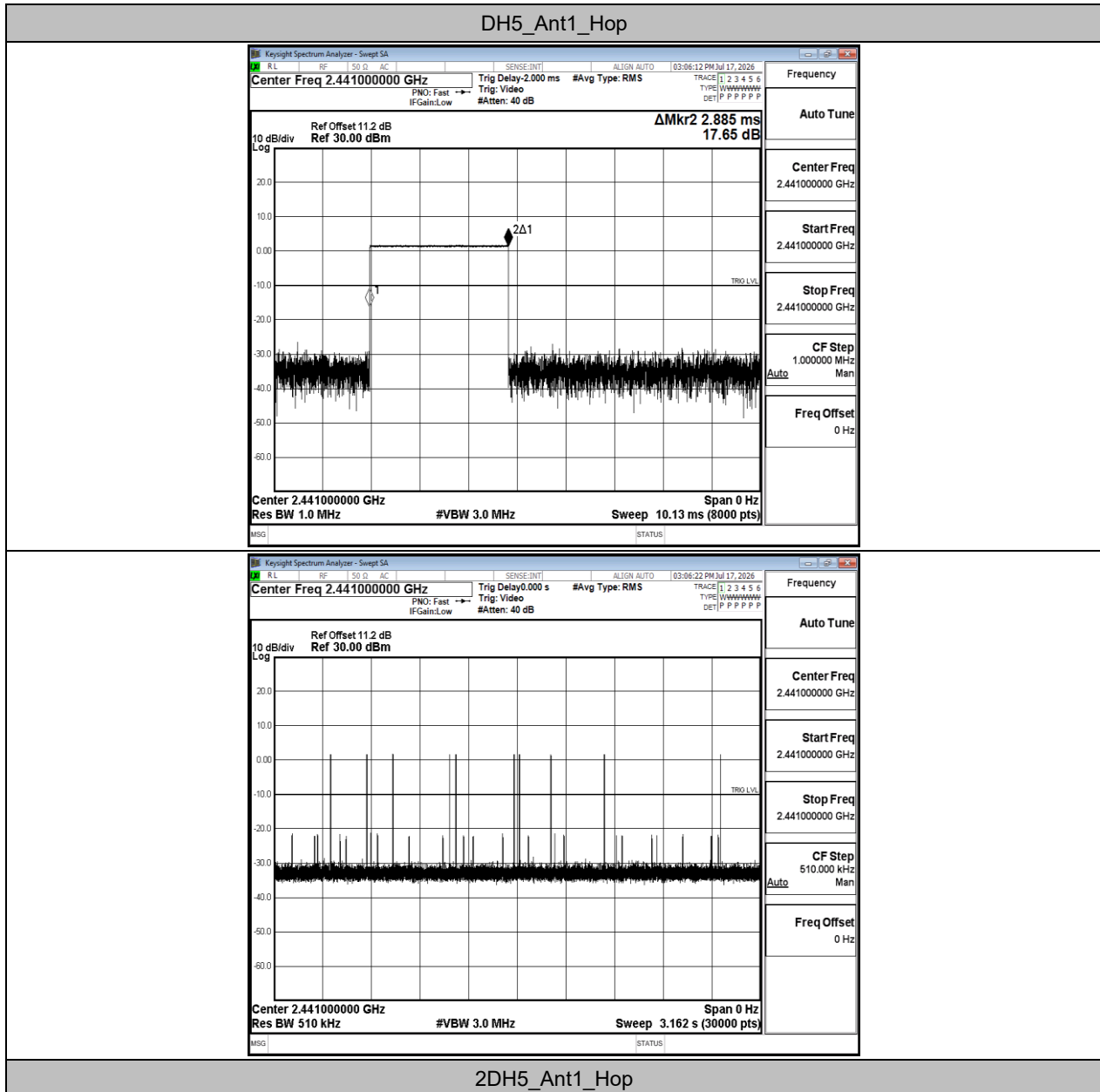


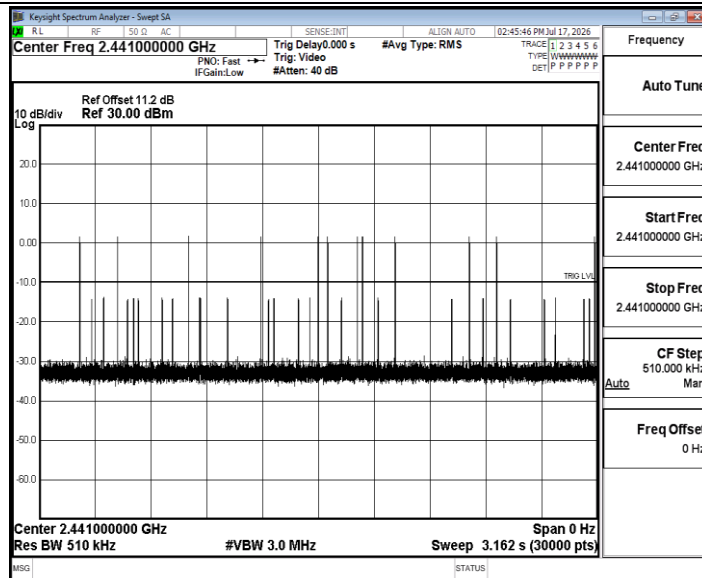
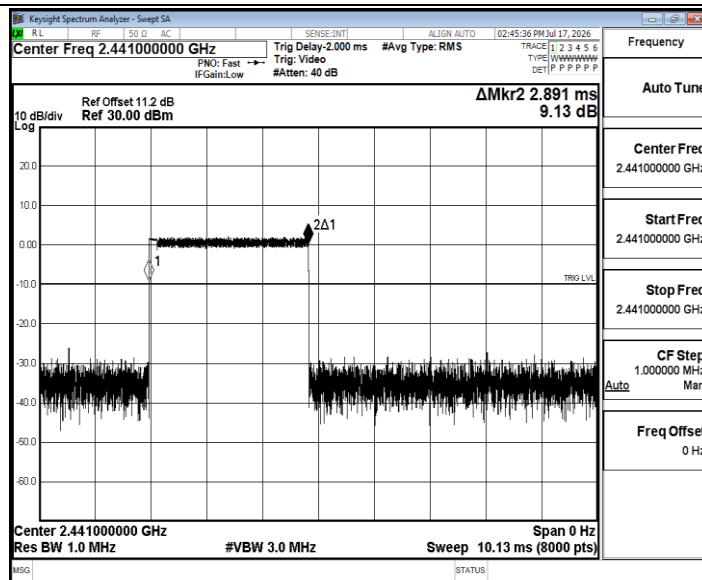
A4 Time of occupancy

Test Result

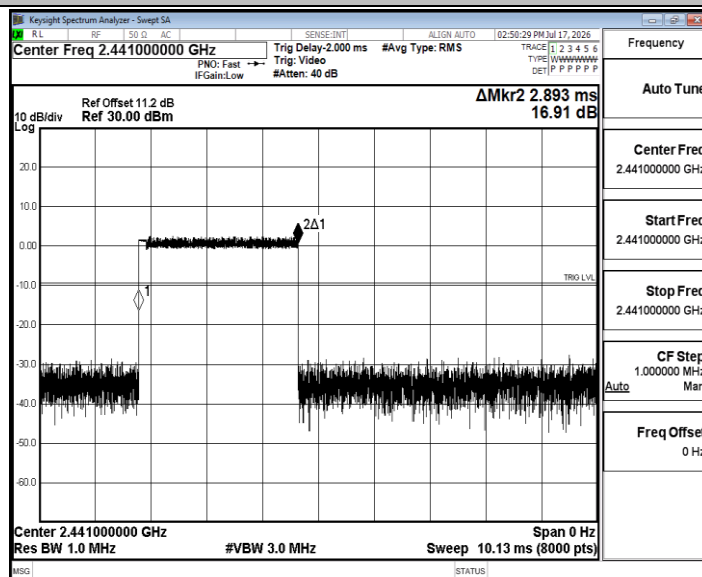
TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.891	130	0.376	≤0.4	PASS
3DH5	Ant1	Hop	2.893	70	0.203	≤0.4	PASS

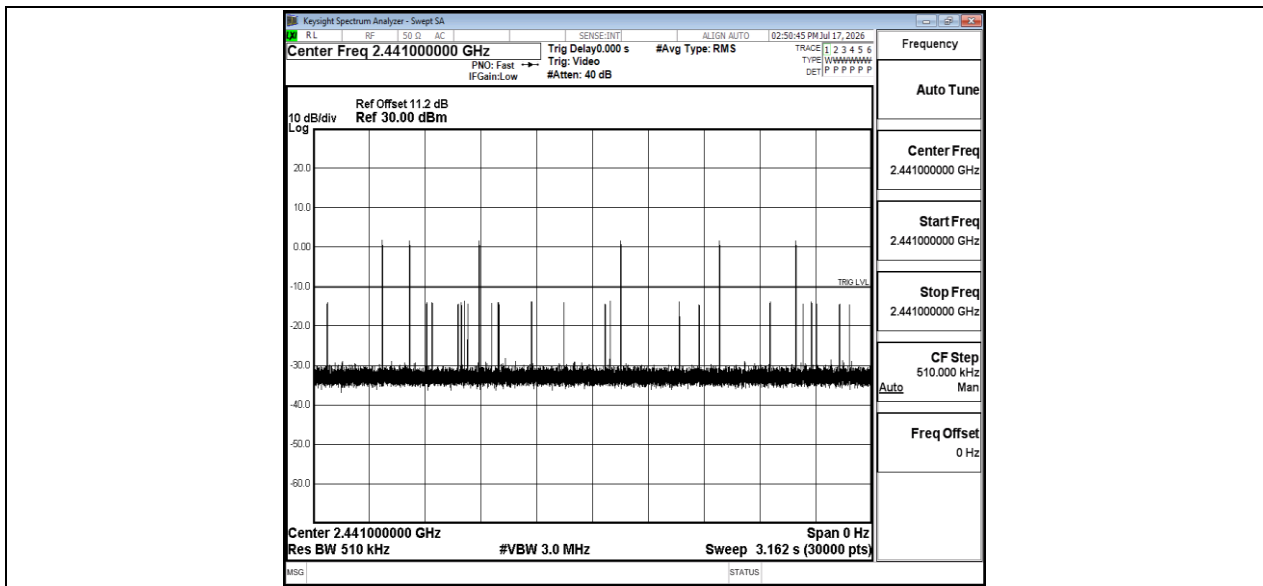
Test Graphs





3DH5_Ant1_Hop



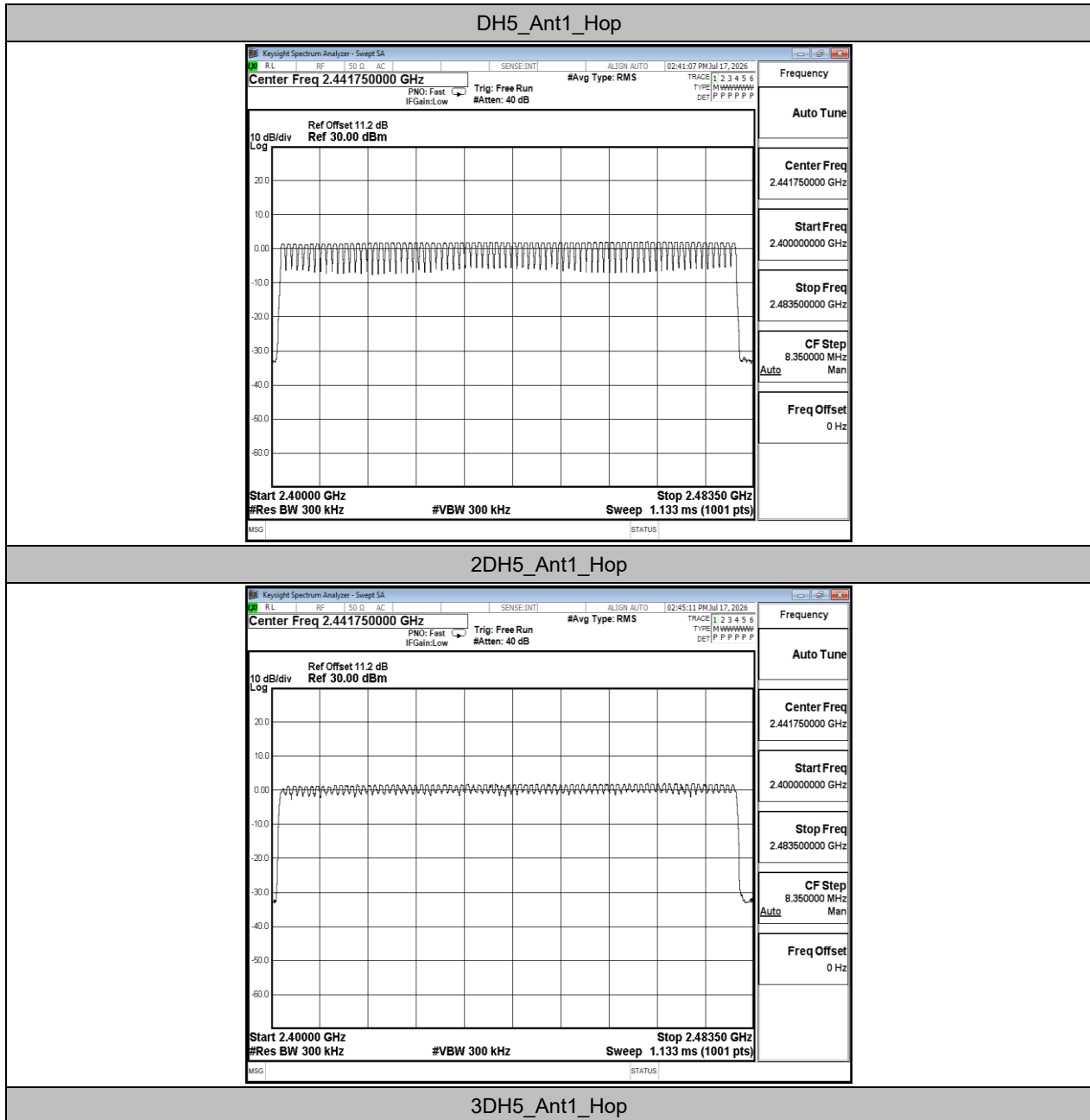


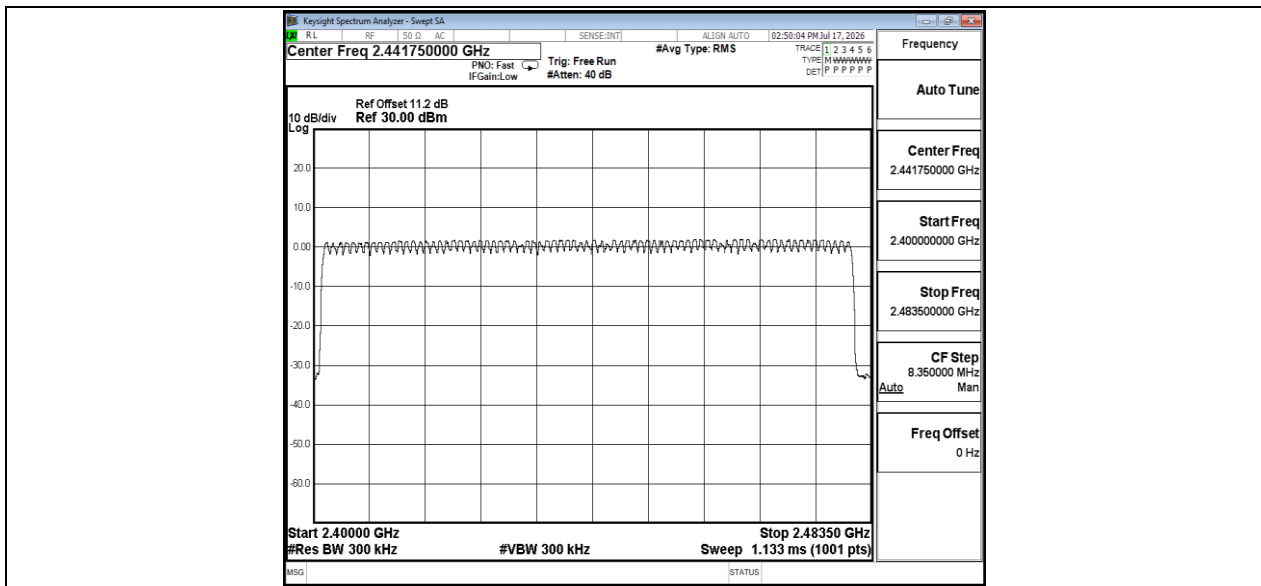
A.5 Number of hopping channels

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





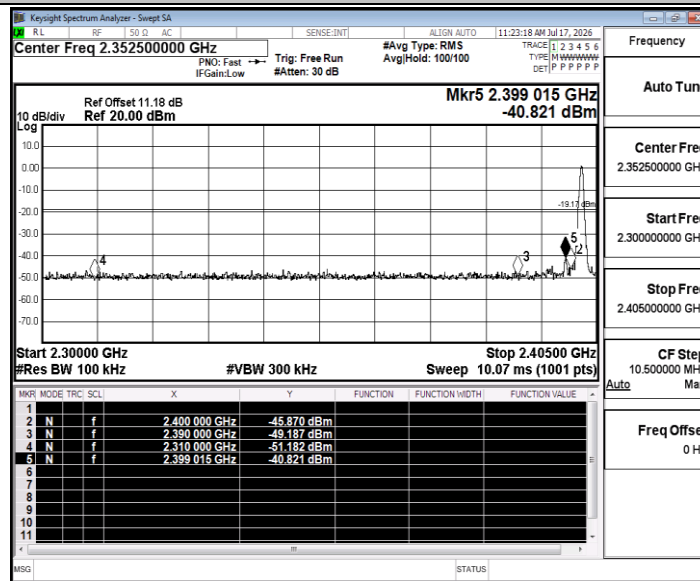
A.6 Band edge measurements

Test Result

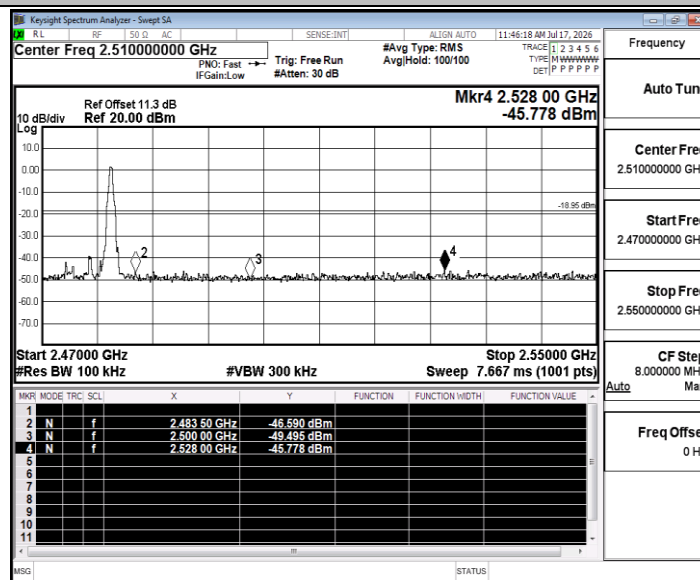
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.83	-40.82	≤-19.17	PASS
		High	2480	1.05	-45.78	≤-18.95	PASS
		Low	Hop_2402	-0.18	-42.69	≤-20.18	PASS
		High	Hop_2480	1.40	-46.16	≤-18.6	PASS
2DH5	Ant1	Low	2402	0.88	-41.66	≤-19.12	PASS
		High	2480	1.26	-44.9	≤-18.74	PASS
		Low	Hop_2402	-3.92	-46.45	≤-23.92	PASS
		High	Hop_2480	-1.12	-45.93	≤-21.12	PASS
3DH5	Ant1	Low	2402	0.54	-40.97	≤-19.46	PASS
		High	2480	1.31	-46.15	≤-18.69	PASS
		Low	Hop_2402	-3.06	-44.74	≤-23.06	PASS
		High	Hop_2480	-2.48	-45.85	≤-22.48	PASS

Test Graphs

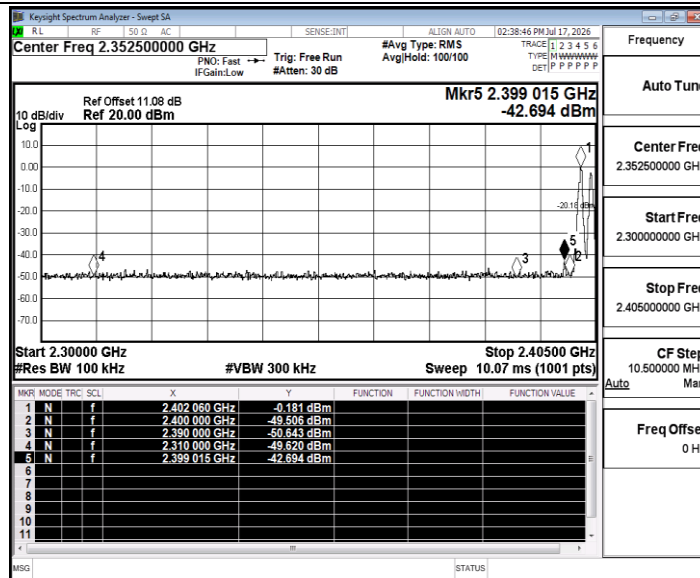
DH5_Ant1_Low_2402



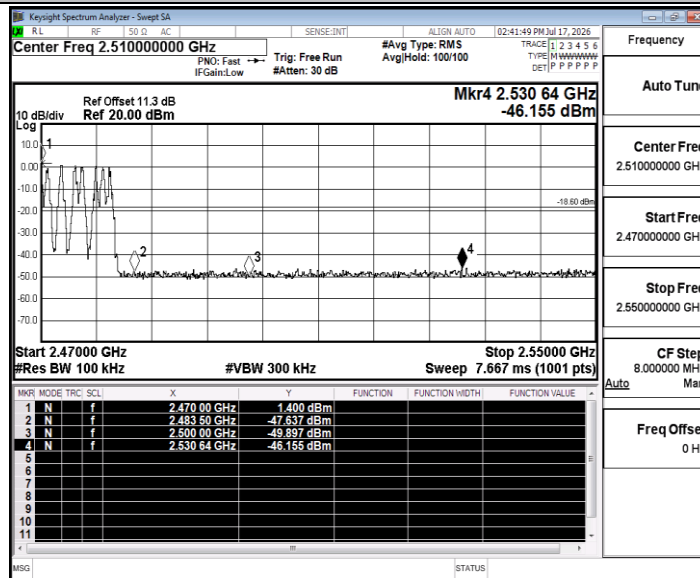
DH5_Ant1_High_2480



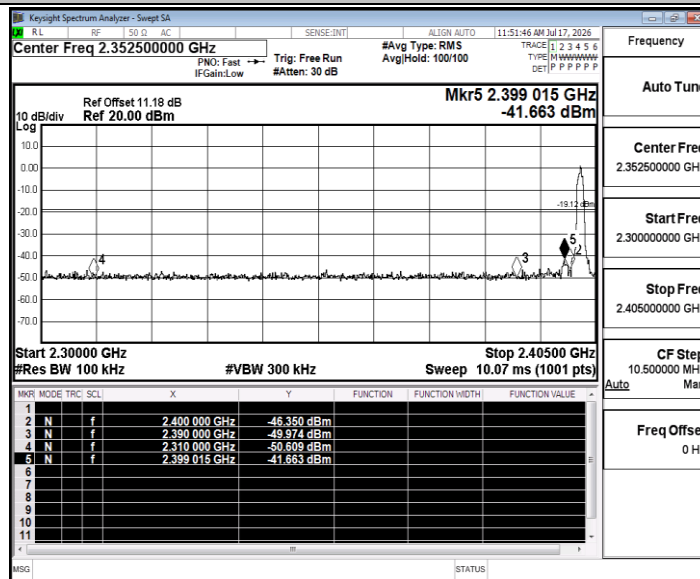
DH5_Ant1_Low_Hop_2402



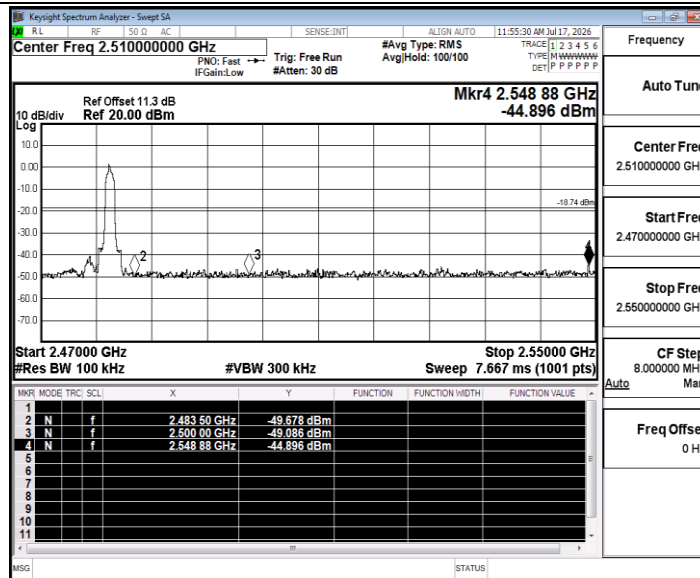
DH5_Ant1_High_Hop_2480



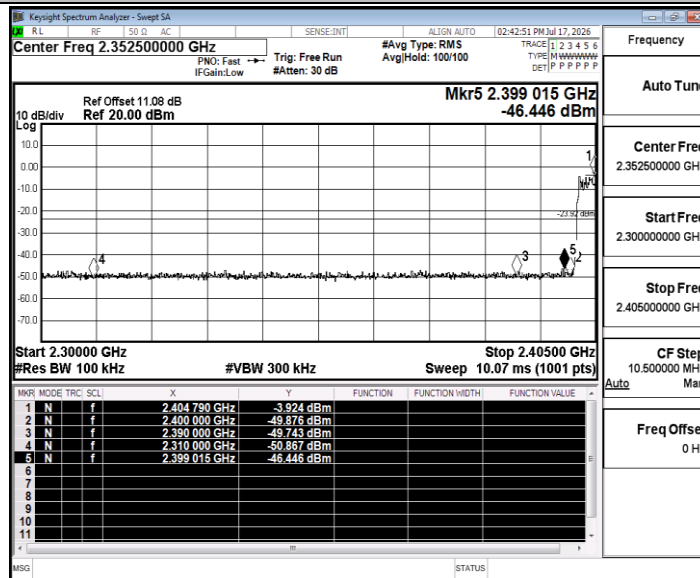
2DH5_Ant1_Low_2402



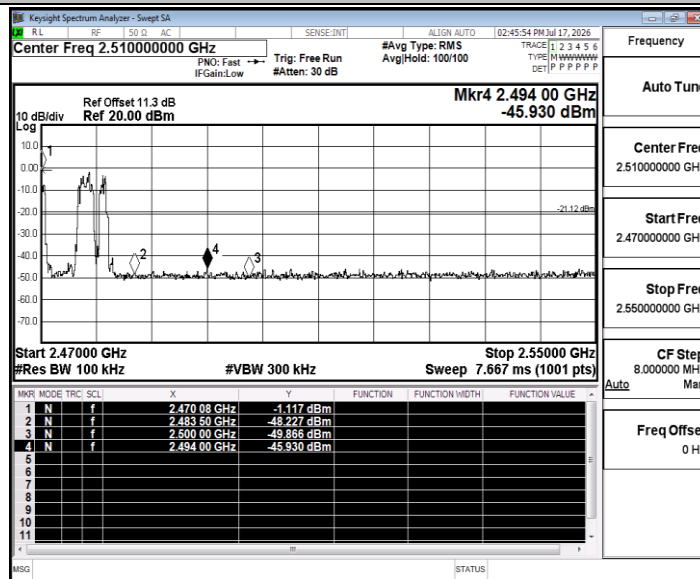
2DH5_Ant1_High_2480



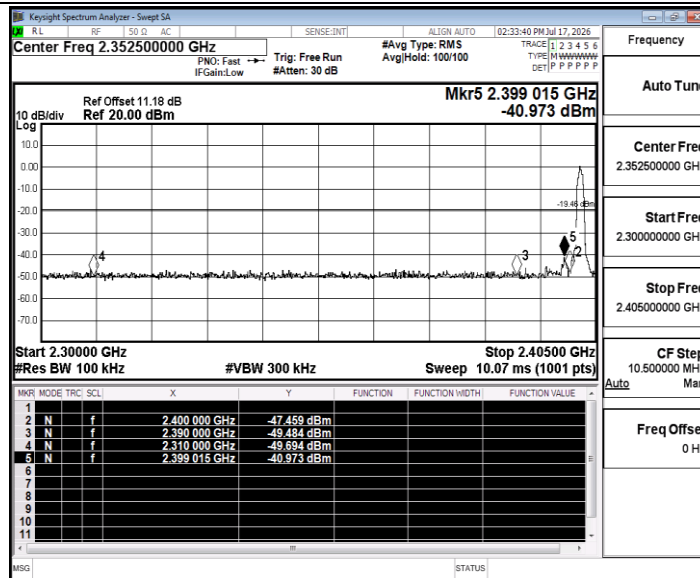
2DH5_Ant1_Low_Hop_2402



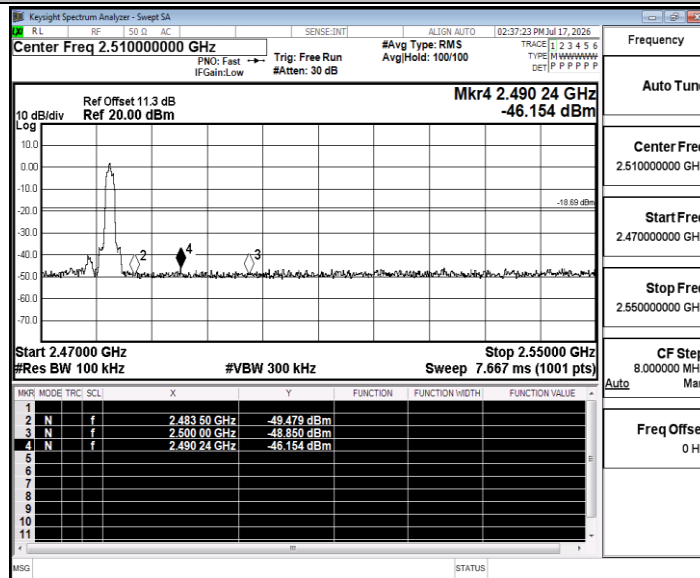
2DH5_Ant1_High_Hop_2480



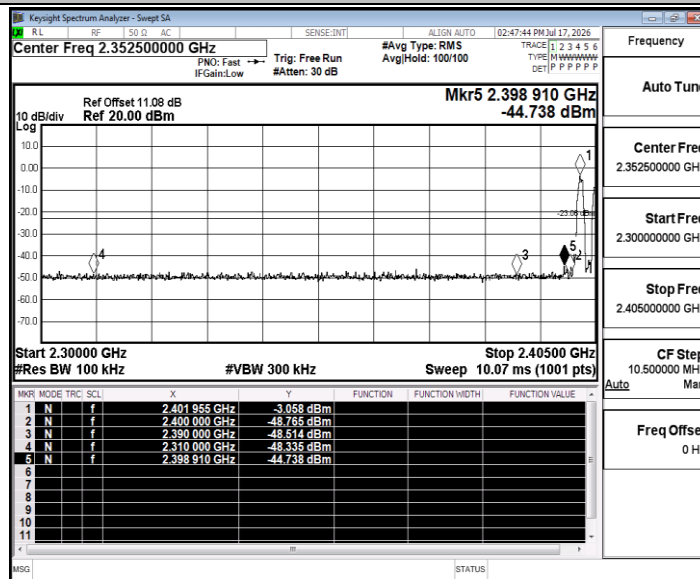
3DH5_Ant1_Low_2402



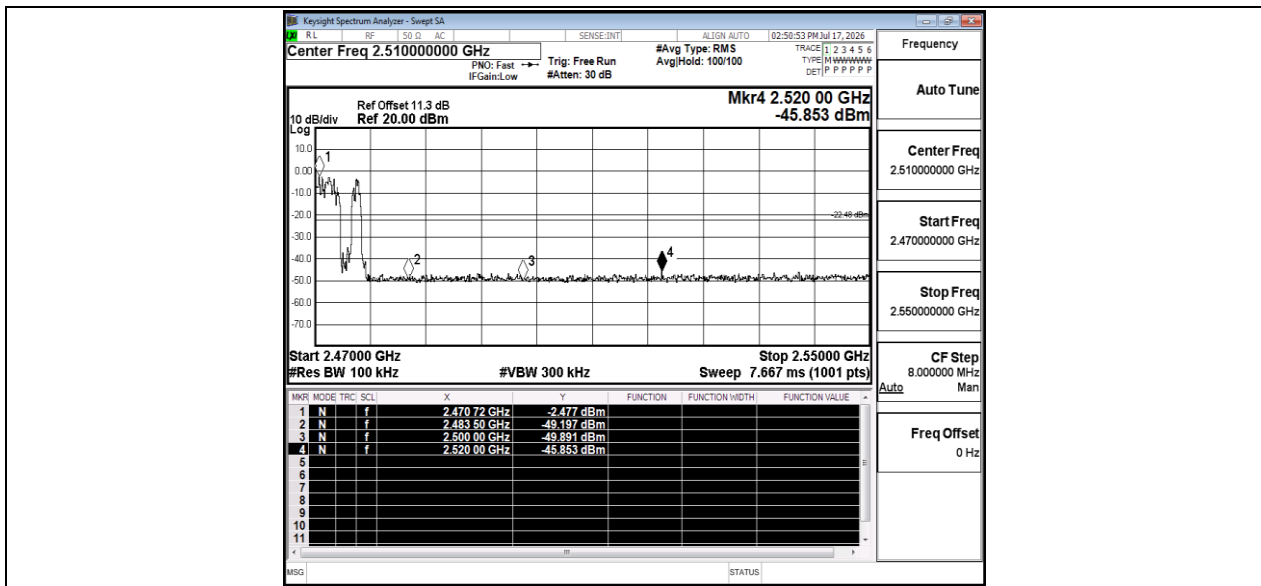
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

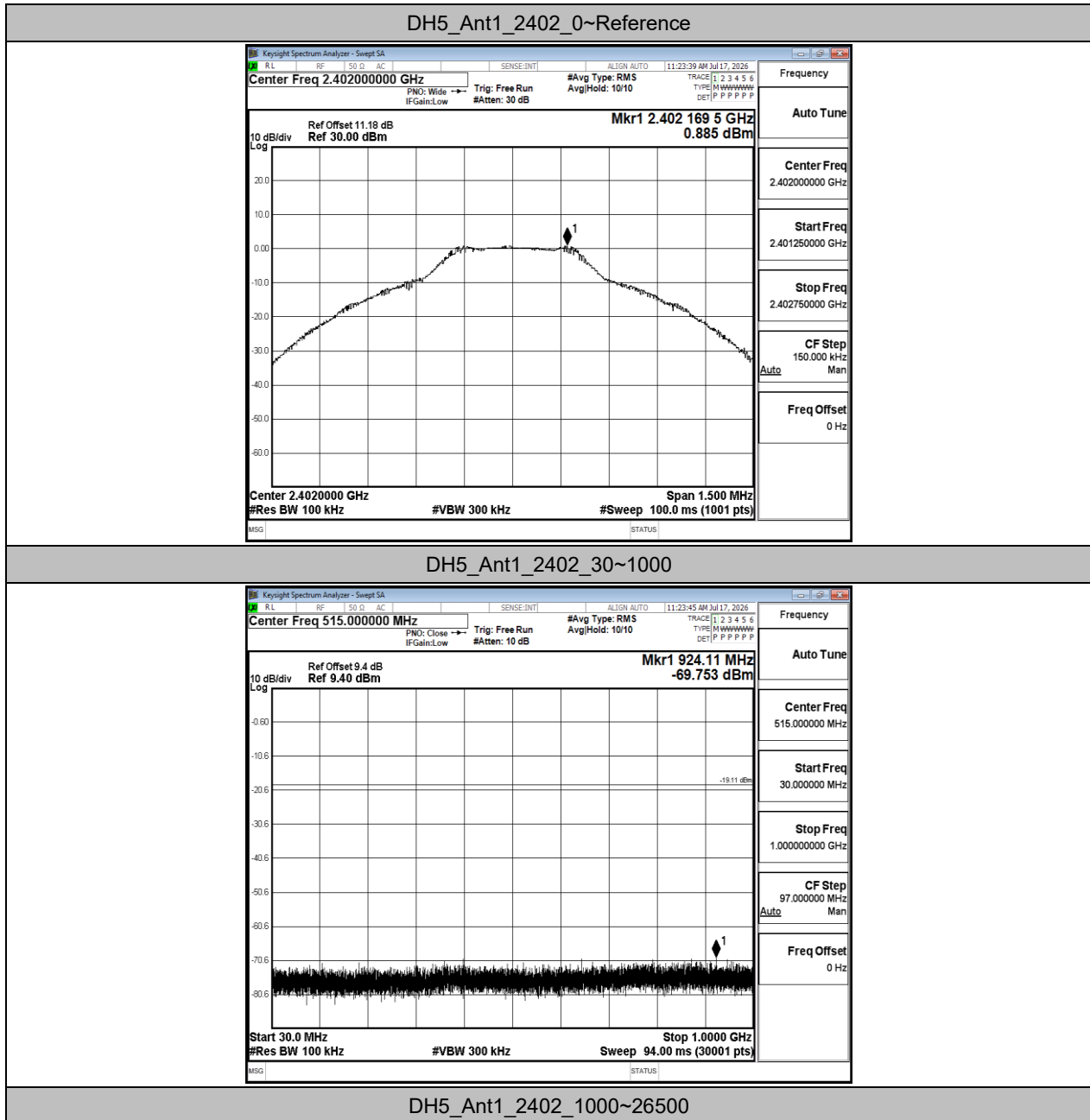


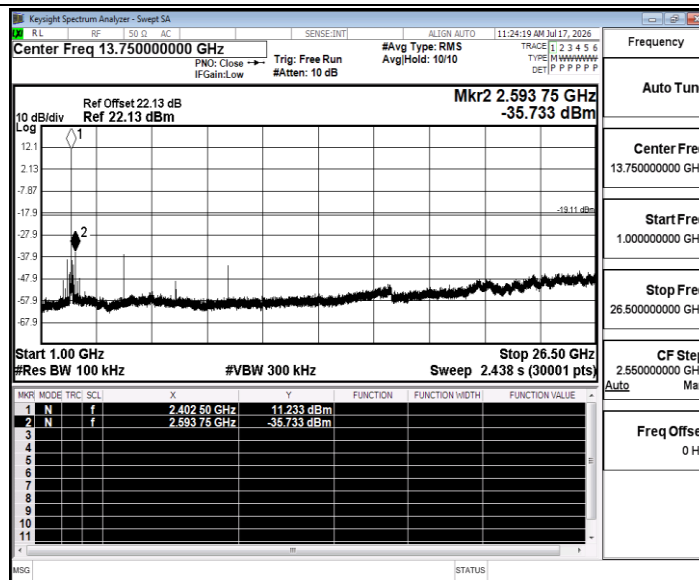
A.7 Conducted Spurious Emission

Test Result

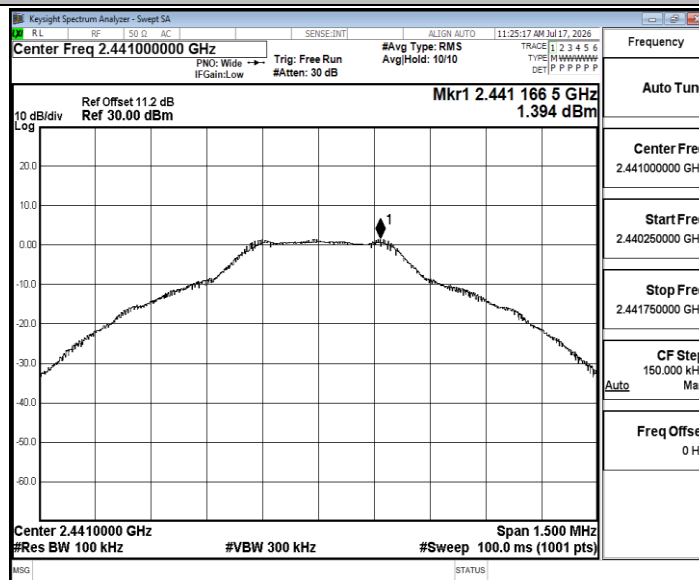
TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-69.75	≤-19.11	PASS
			1000~26500	0.89	-35.73	≤-19.11	PASS
		2441	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-70.17	≤-18.61	PASS
			1000~26500	1.39	-37.16	≤-18.61	PASS
		2480	Reference	1.46	1.46	---	PASS
			30~1000	1.46	-67.92	≤-18.54	PASS
			1000~26500	1.46	-36.52	≤-18.54	PASS
2DH5	Ant1	2402	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-69.85	≤-19.02	PASS
			1000~26500	0.98	-38.01	≤-19.02	PASS
		2441	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-69.41	≤-18.53	PASS
			1000~26500	1.47	-37.82	≤-18.53	PASS
		2480	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-70.46	≤-18.49	PASS
			1000~26500	1.51	-39.97	≤-18.49	PASS
3DH5	Ant1	2402	Reference	0.91	0.91	---	PASS
			30~1000	0.91	-69.94	≤-19.09	PASS
			1000~26500	0.91	-38.89	≤-19.09	PASS
		2441	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-70.2	≤-18.61	PASS
			1000~26500	1.39	-34.89	≤-18.61	PASS
		2480	Reference	1.48	1.48	---	PASS
			30~1000	1.48	-70.33	≤-18.52	PASS
			1000~26500	1.48	-37.49	≤-18.52	PASS

Test Graphs

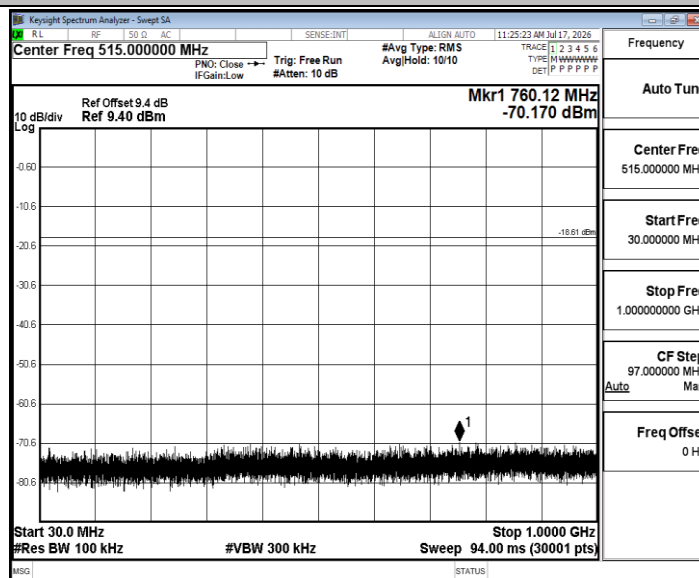




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500