

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: WIRELESS SPEAKER

Test Model: TB-RETS2-WOD

Environmental Conditions

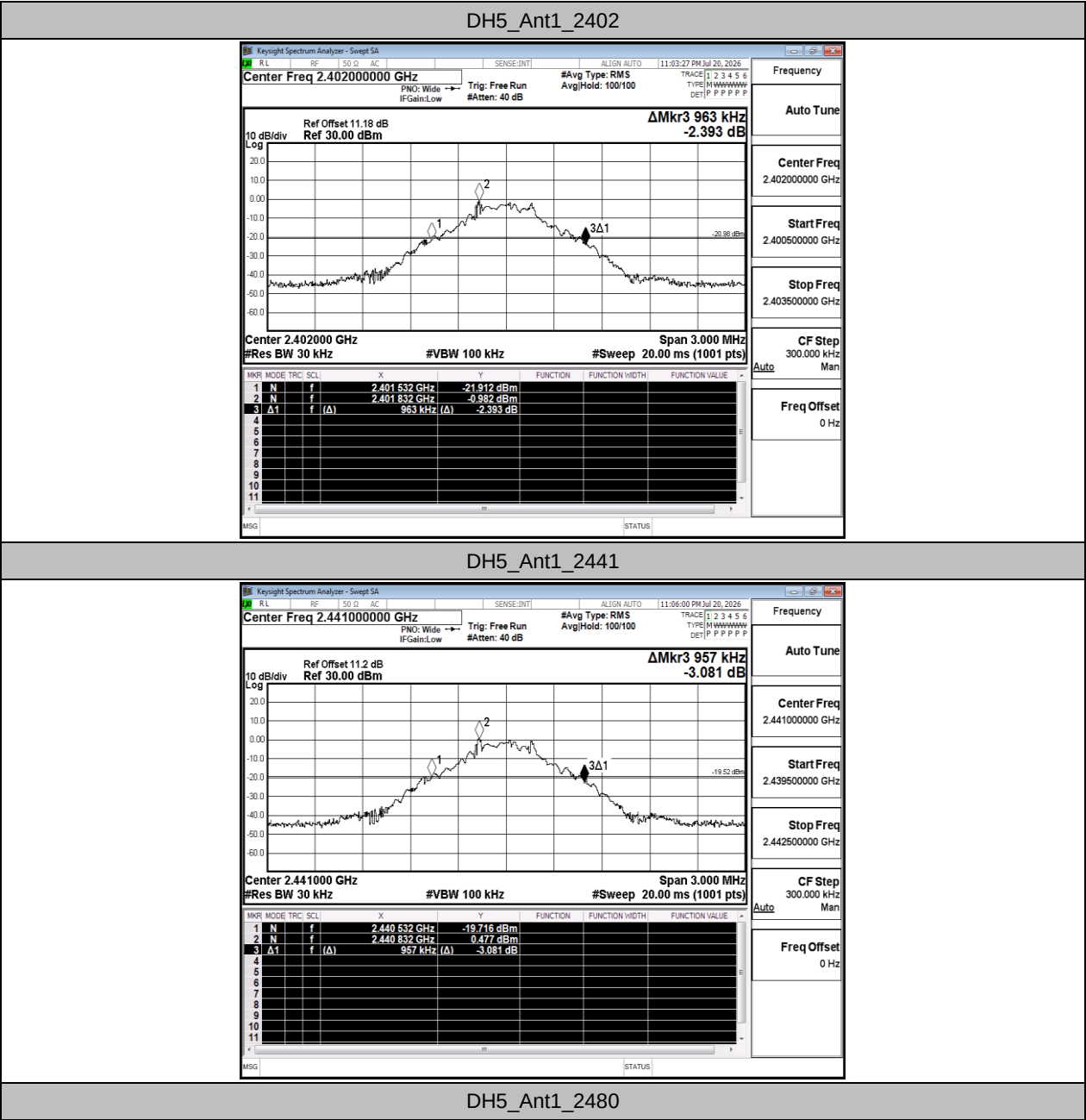
Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

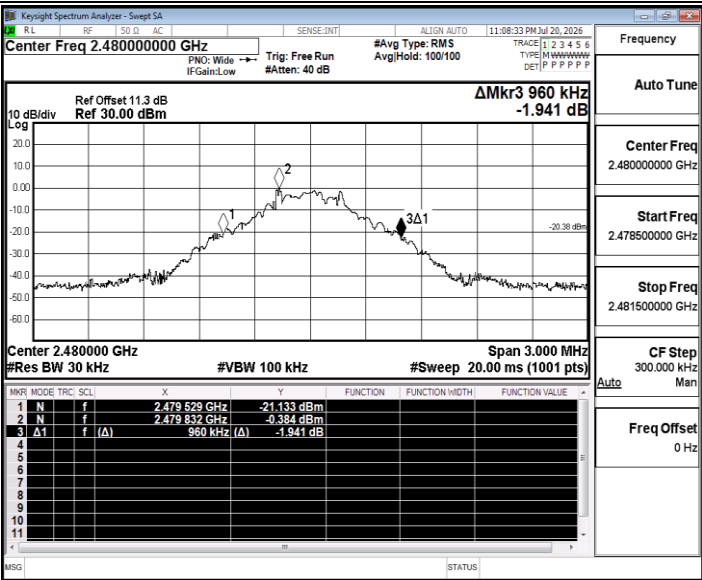
A.1 20dB Emission Bandwidth

Test Result

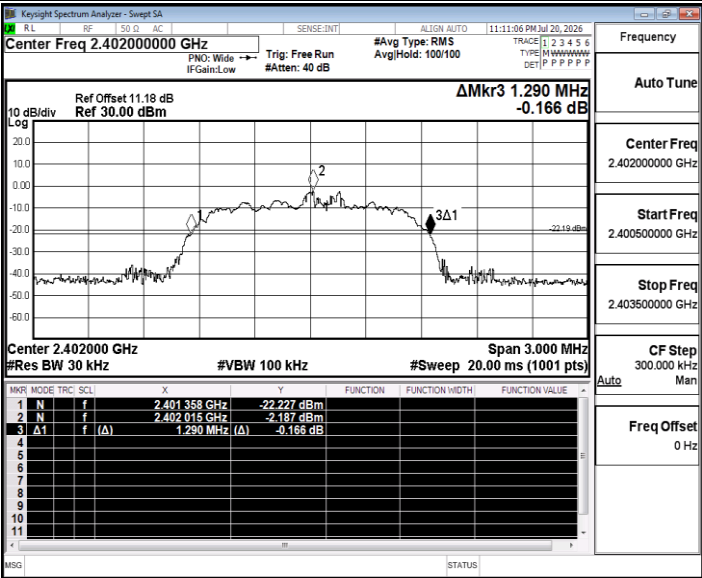
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.532	2402.495	---	---
		2441	0.957	2440.532	2441.489	---	---
		2480	0.960	2479.529	2480.489	---	---
2DH5	Ant1	2402	1.290	2401.358	2402.648	---	---
		2441	1.293	2440.352	2441.645	---	---
		2480	1.287	2479.358	2480.645	---	---
3DH5	Ant1	2402	1.296	2401.346	2402.642	---	---
		2441	1.299	2440.343	2441.642	---	---
		2480	1.299	2479.343	2480.642	---	---

Test Graphs

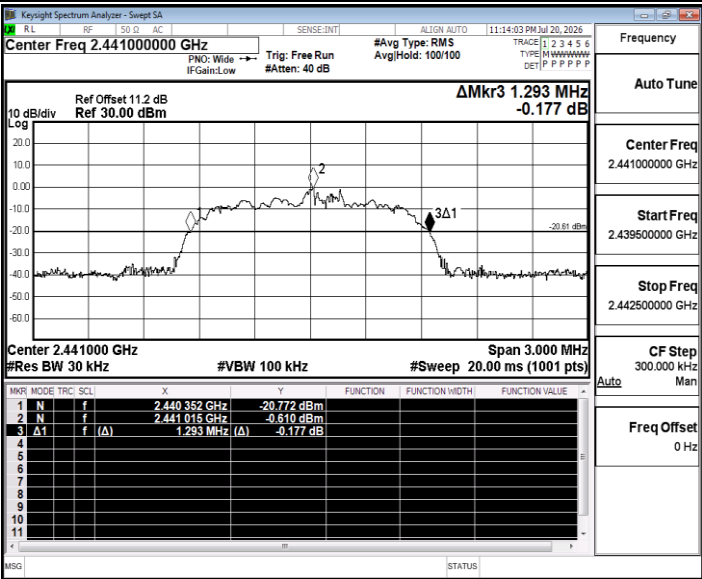




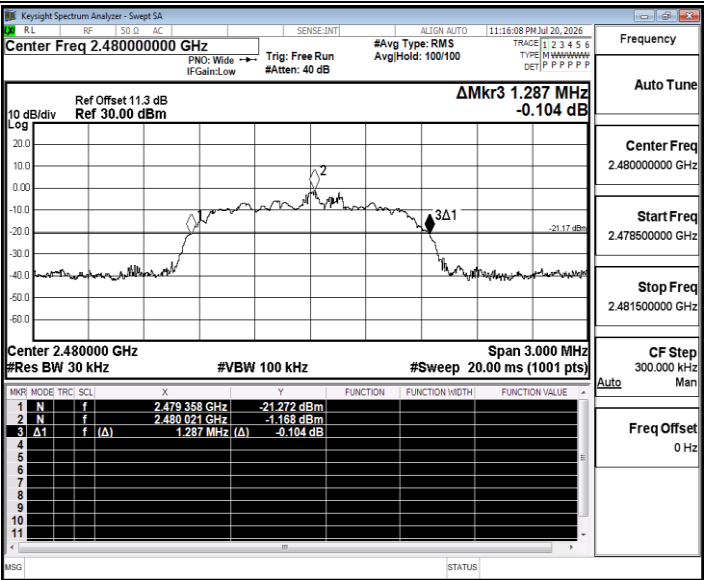
2DH5_Ant1_2402



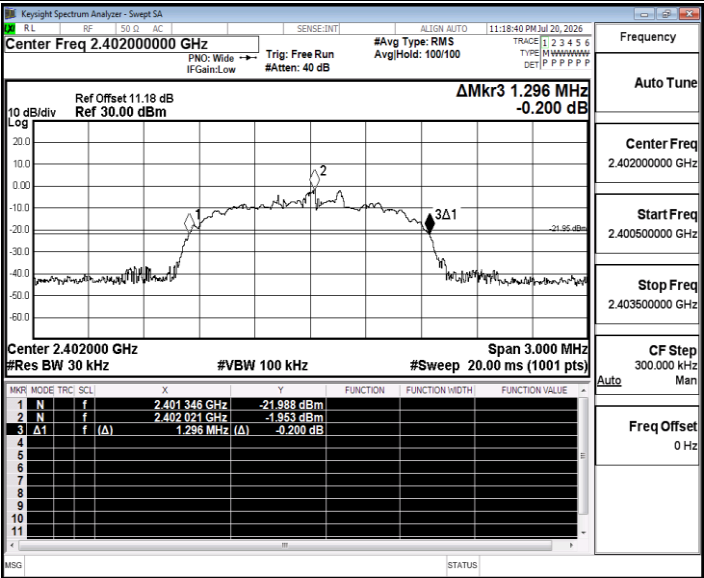
2DH5_Ant1_2441



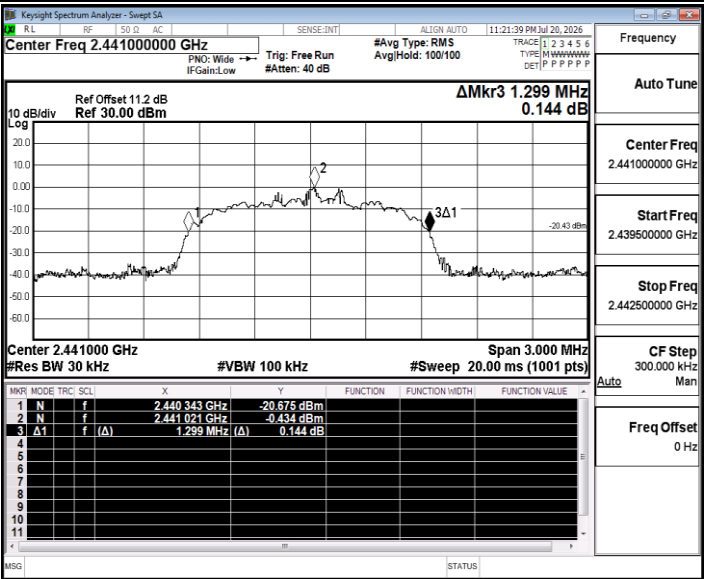
2DH5_Ant1_2480



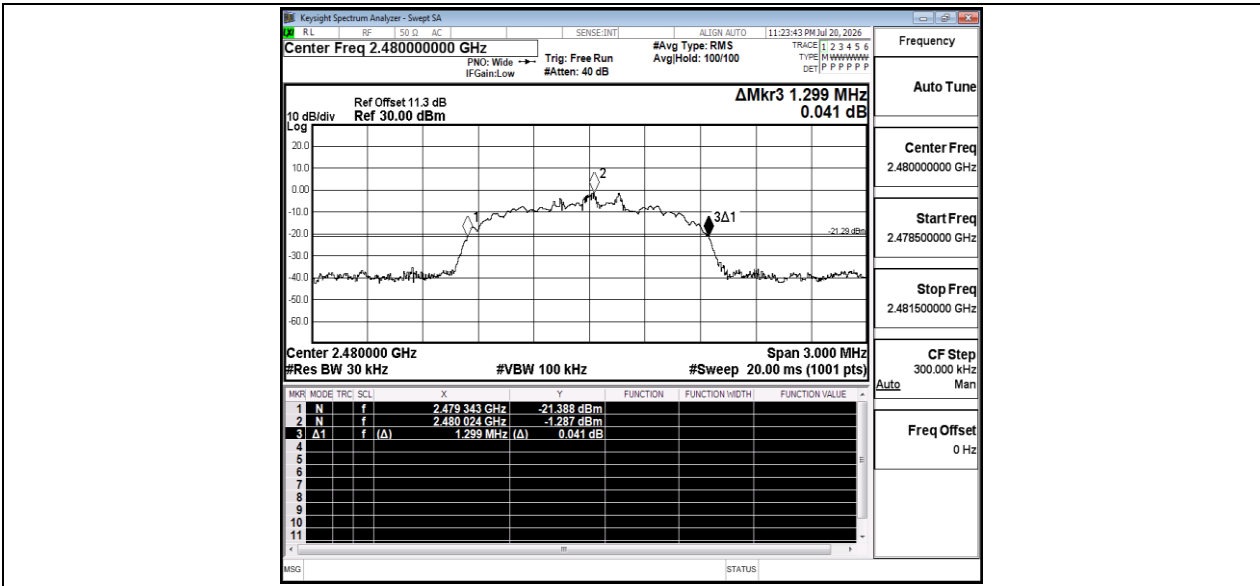
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

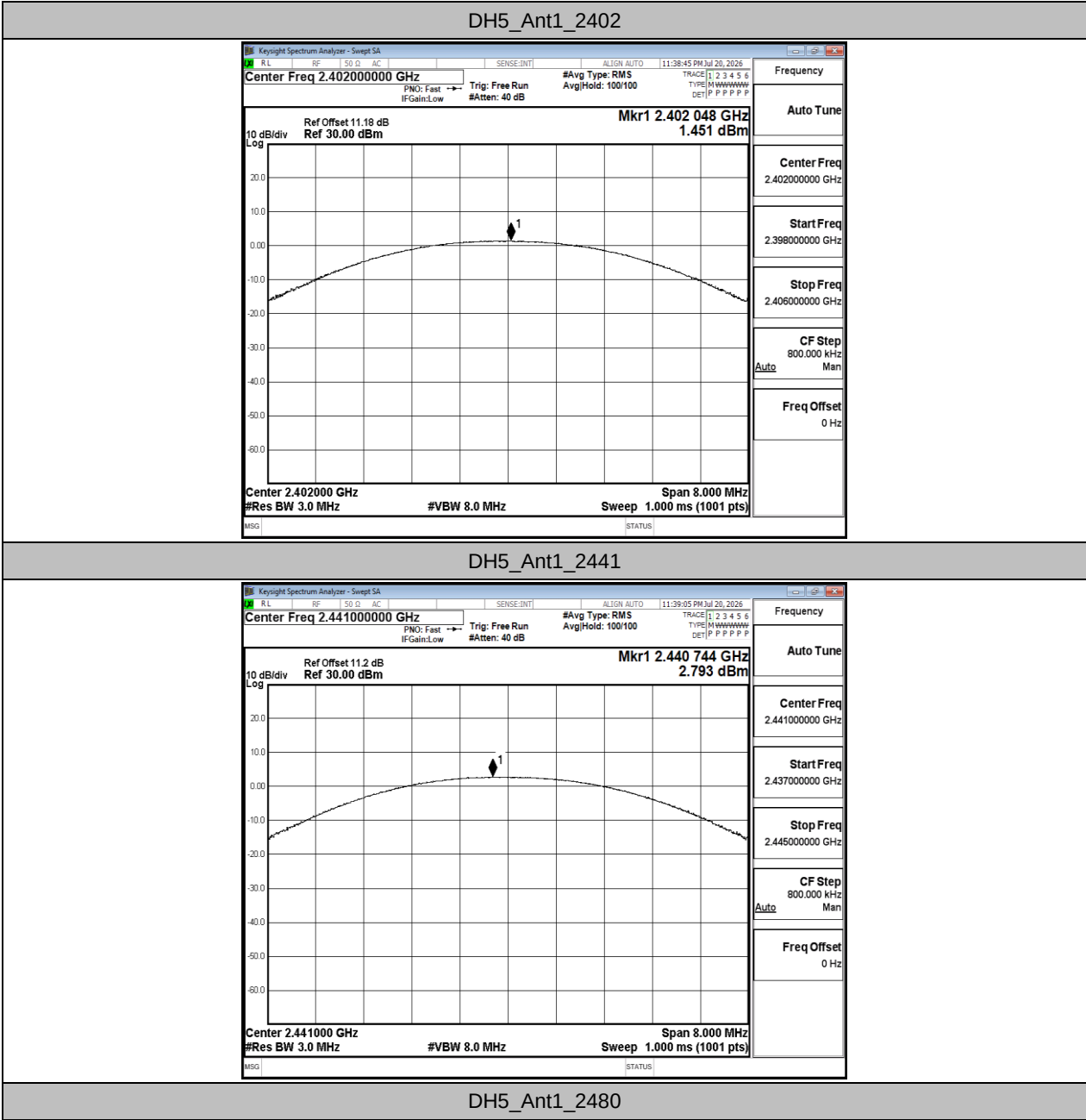


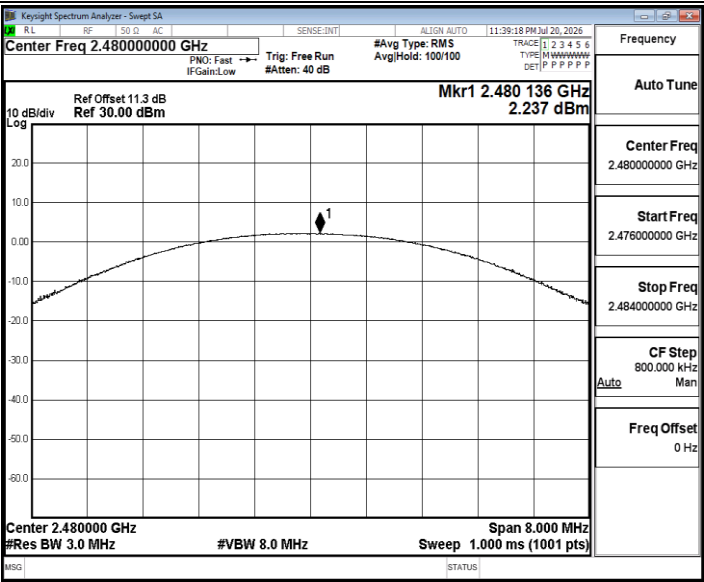
A.2 Maximum Peak conducted output power

Test Result Peak

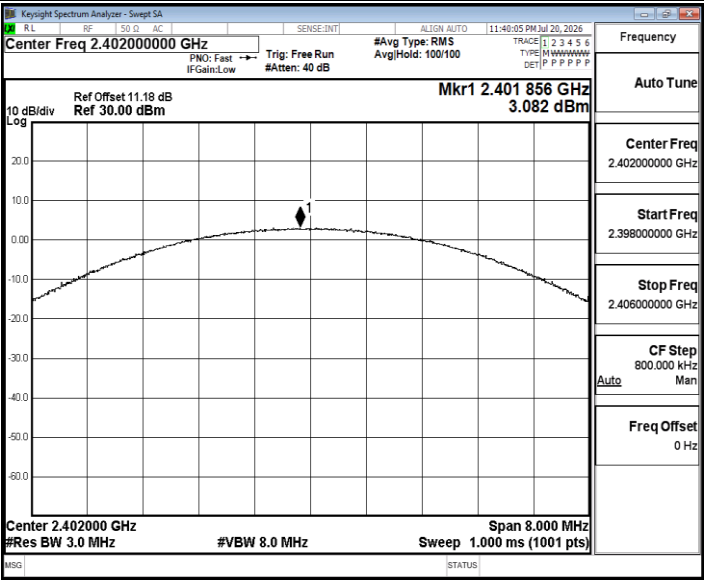
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.45	≤30	PASS
		2441	2.79	≤30	PASS
		2480	2.24	≤30	PASS
2DH5	Ant1	2402	3.08	≤30	PASS
		2441	-0.65	≤30	PASS
		2480	3.35	≤30	PASS
3DH5	Ant1	2402	3.37	≤30	PASS
		2441	2.06	≤30	PASS
		2480	3.41	≤30	PASS

Test Graphs

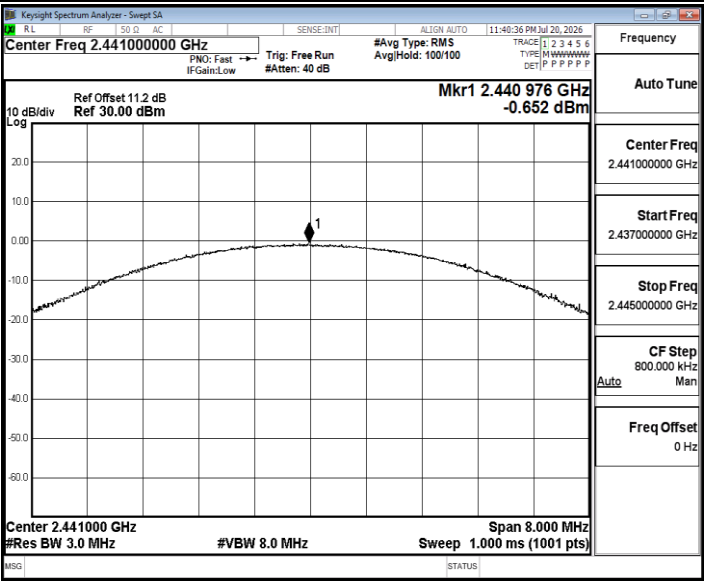




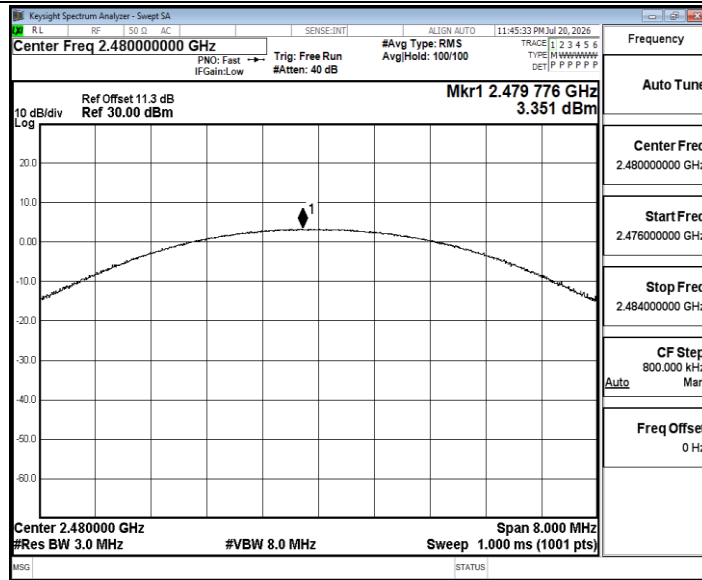
2DH5_Ant1_2402



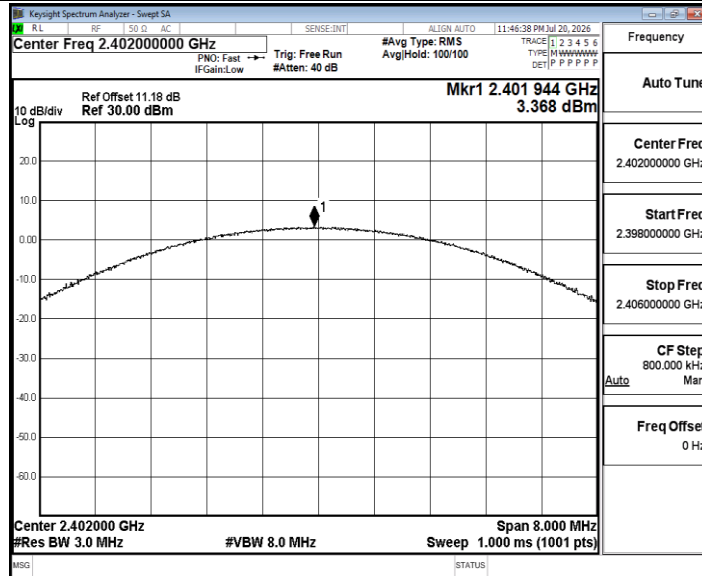
2DH5_Ant1_2441



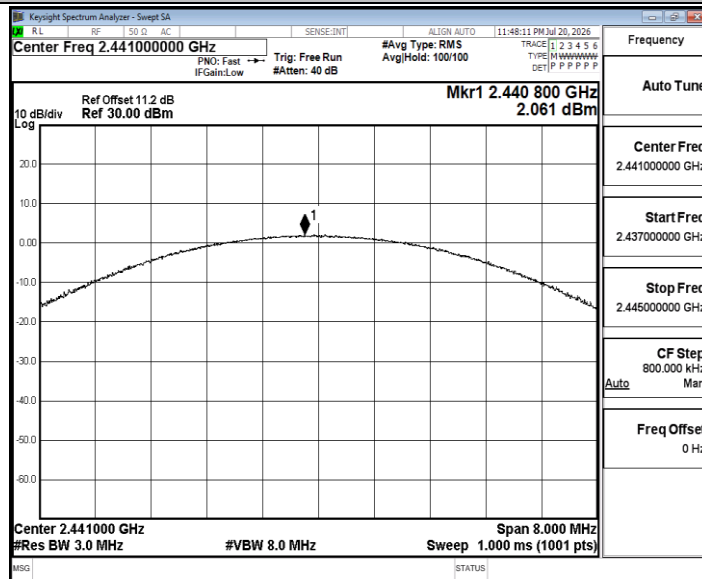
2DH5_Ant1_2480



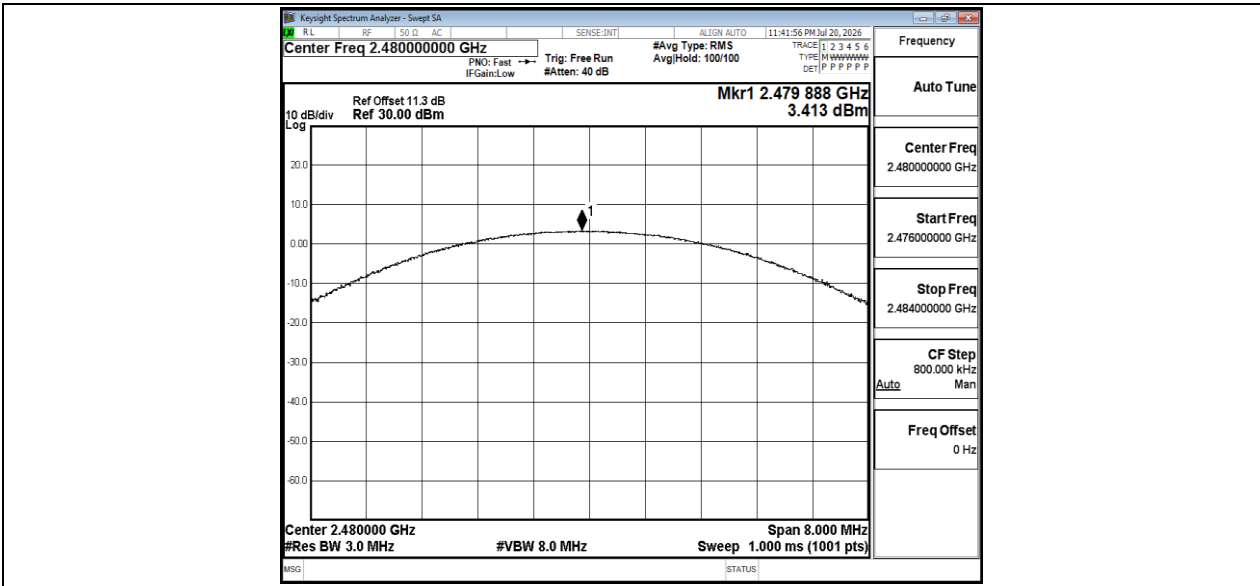
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



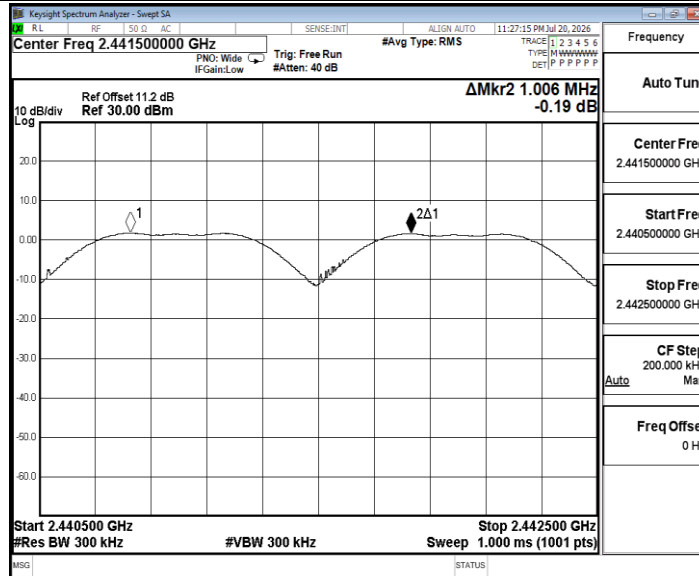
A.3 Carrier frequency separation

Test Result

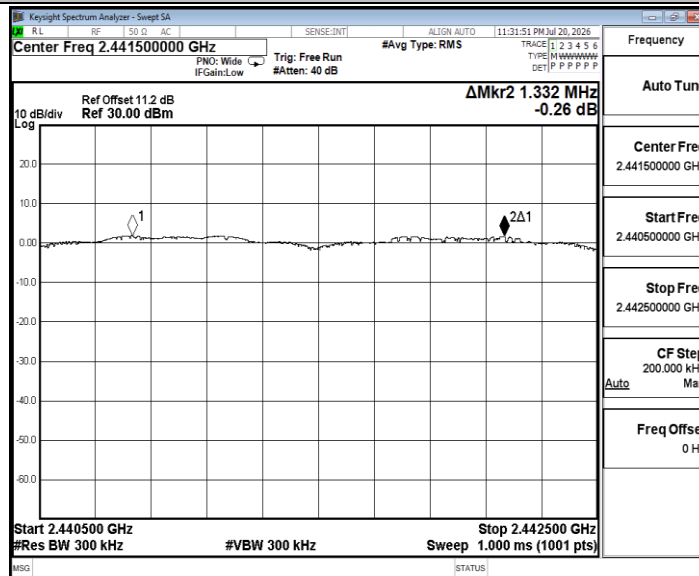
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	0.642	PASS
2DH5	Ant1	Hop	1.332	0.862	PASS
3DH5	Ant1	Hop	0.986	0.866	PASS

Test Graphs

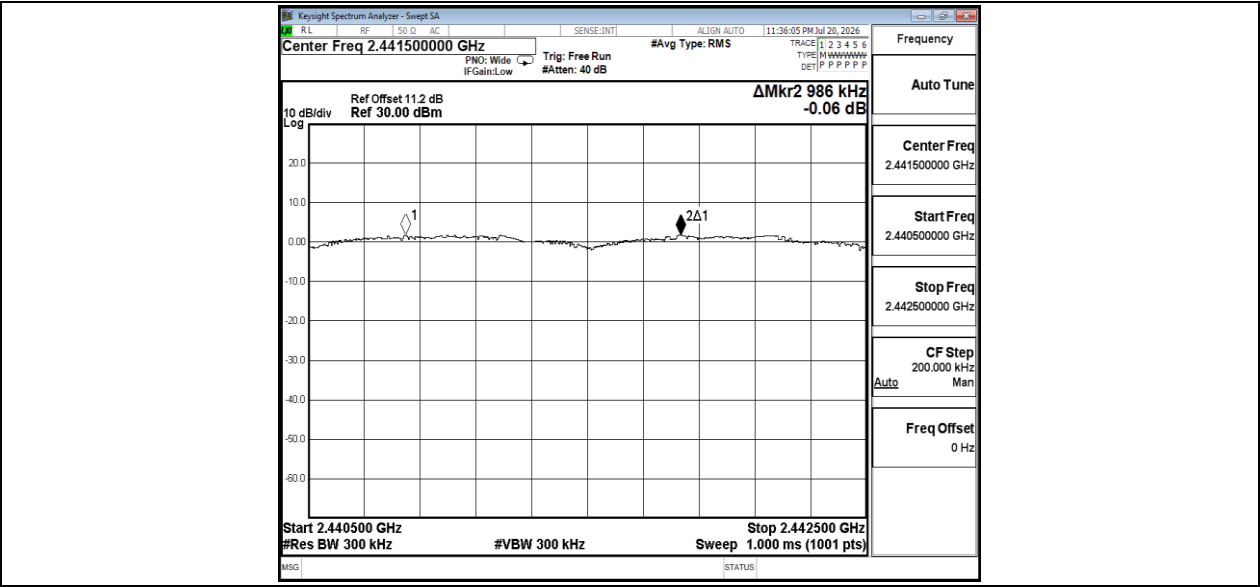
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

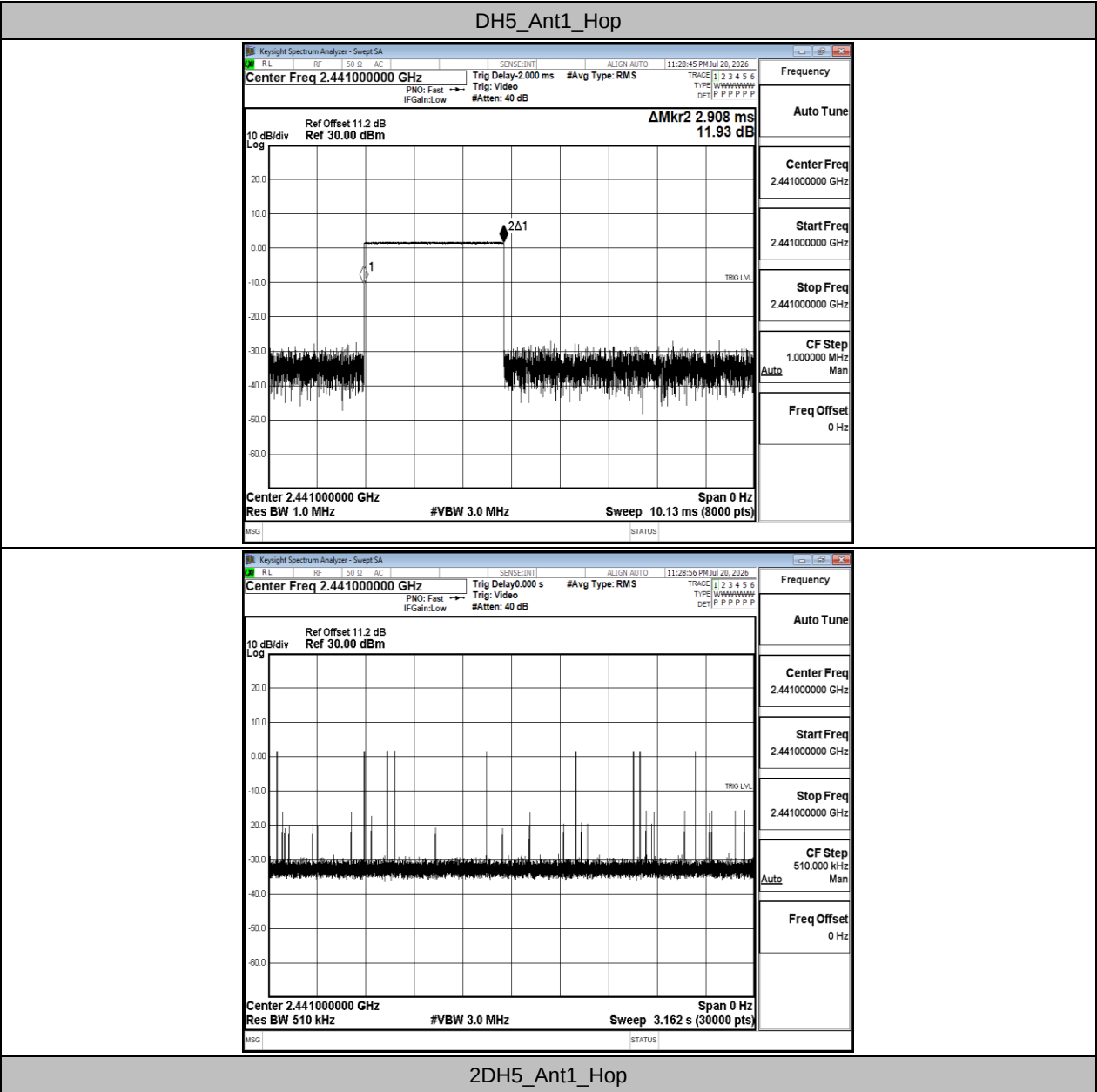


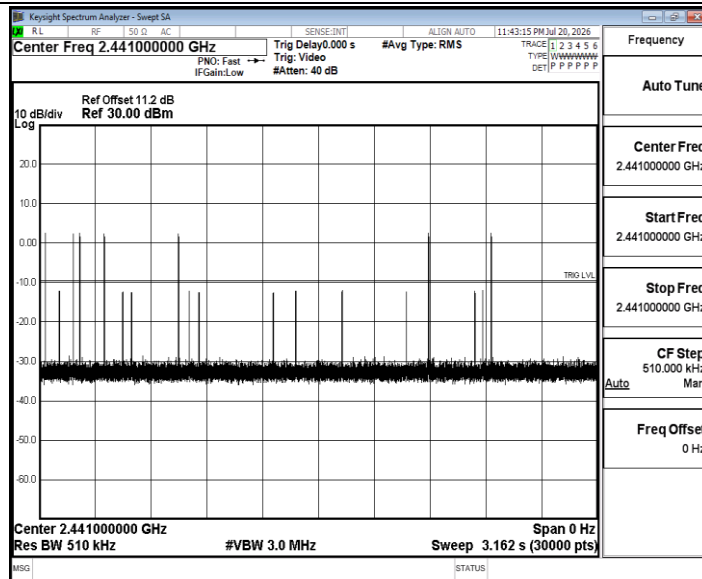
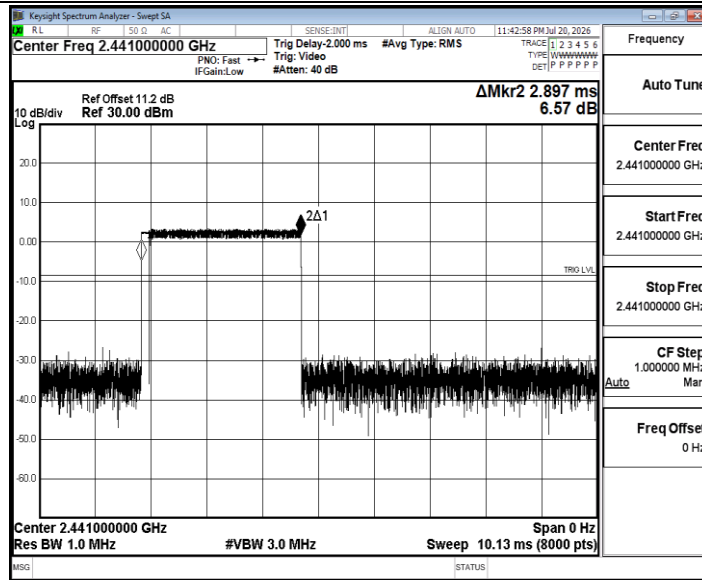
A.4 Time of occupancy

Test Result

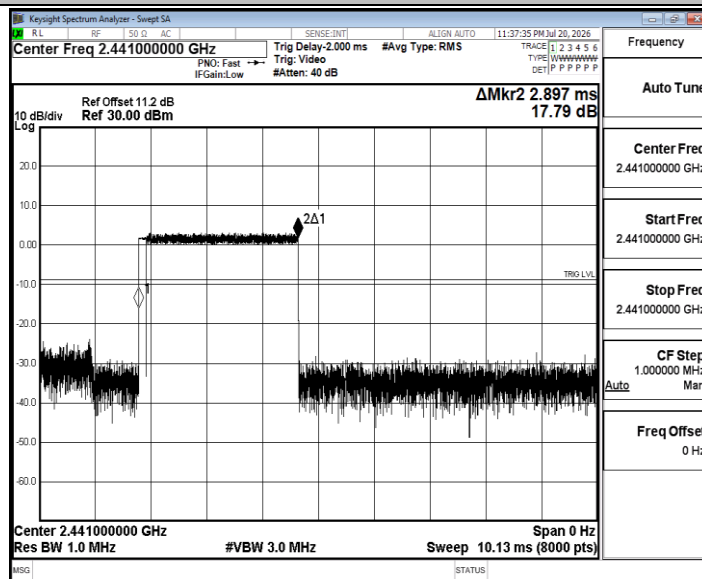
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	100	0.291	≤0.4	PASS
2DH5	Ant1	Hop	2.897	80	0.232	≤0.4	PASS
3DH5	Ant1	Hop	2.897	70	0.203	≤0.4	PASS

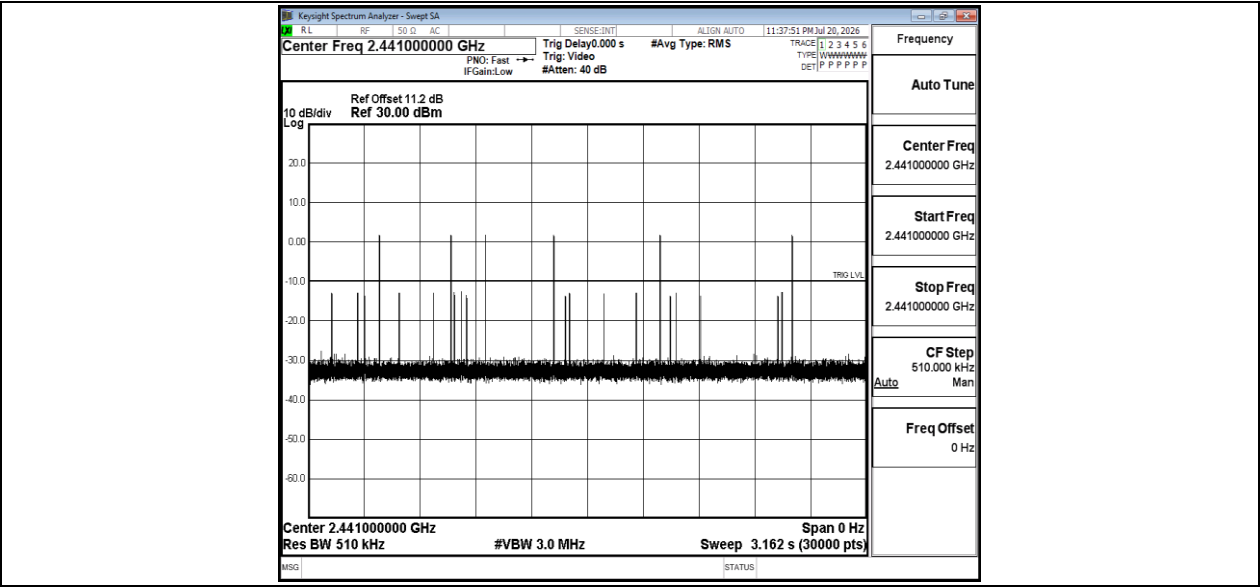
Test Graphs





3DH5_Ant1_Hop





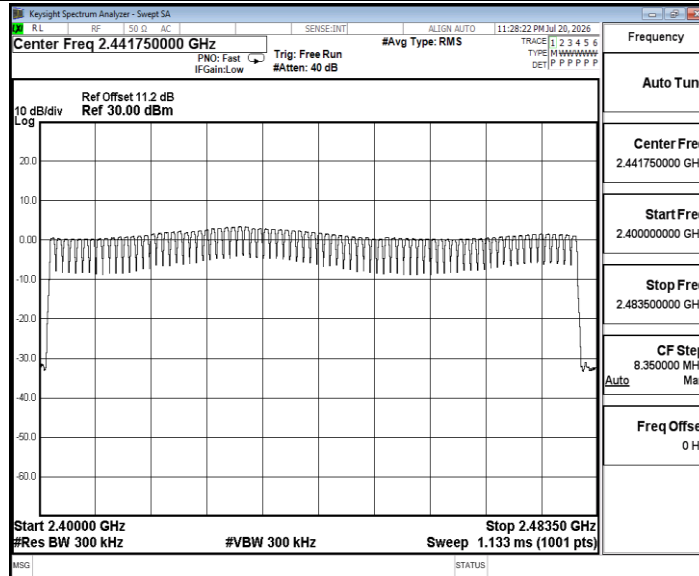
A.5 Number of hopping channels

Test Result

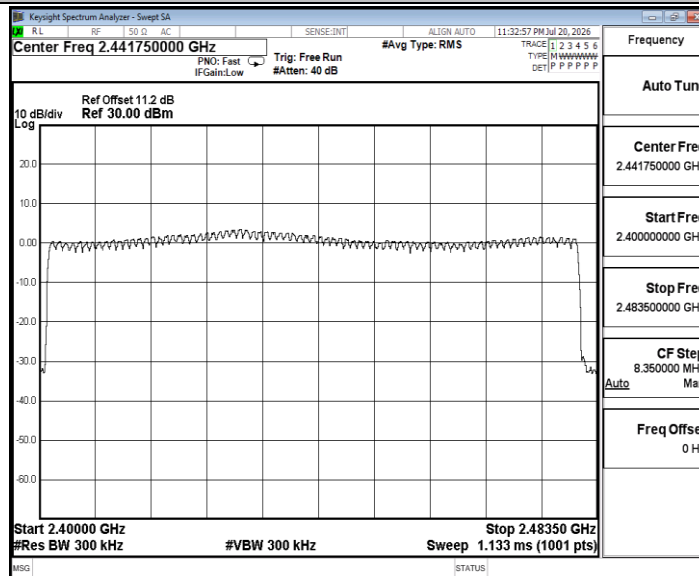
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

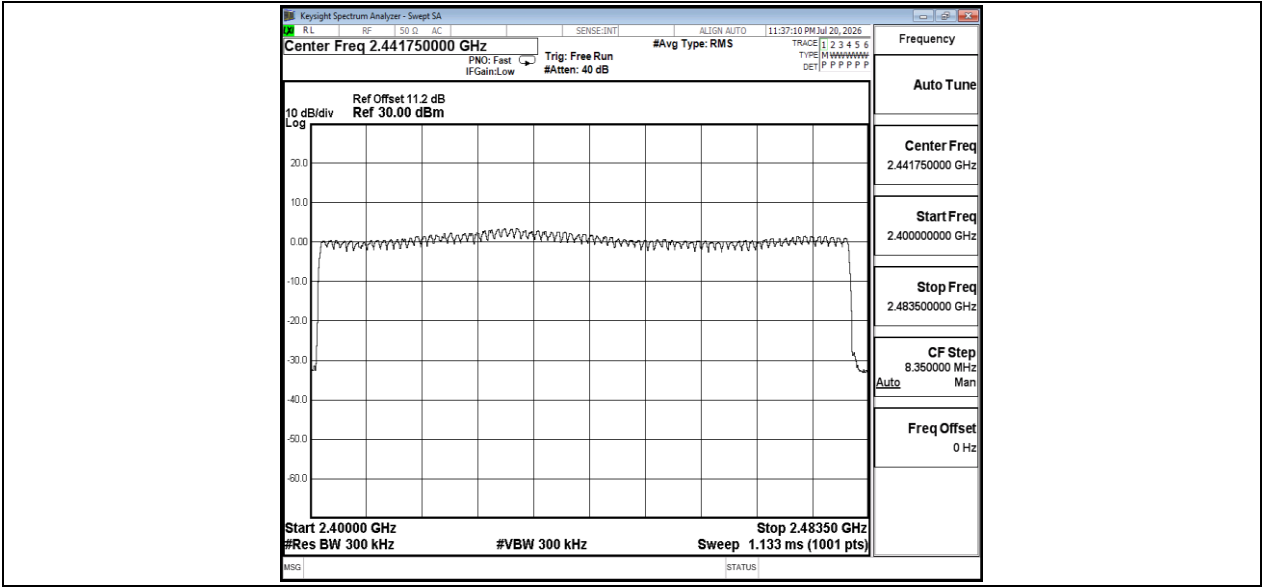
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

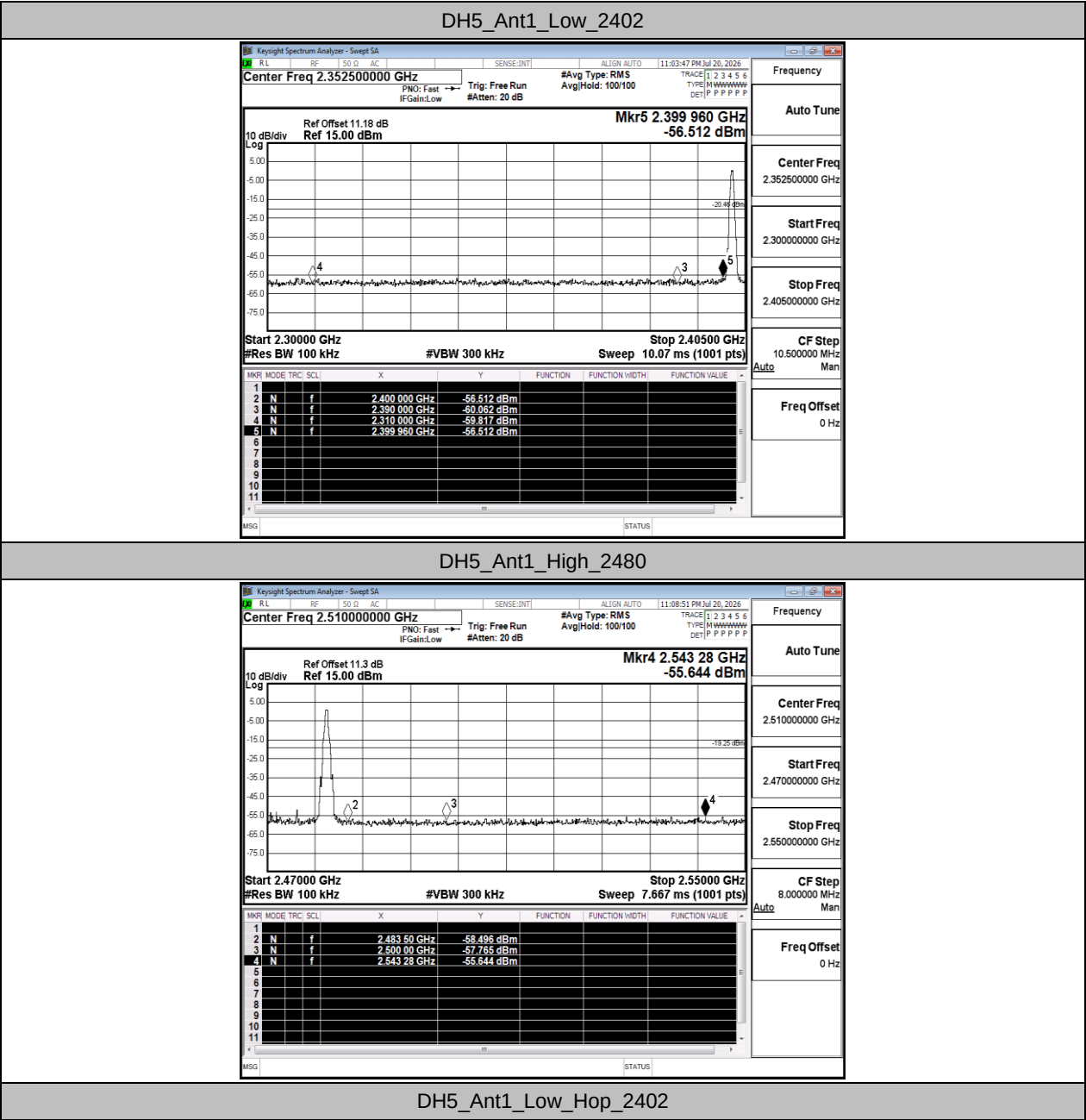


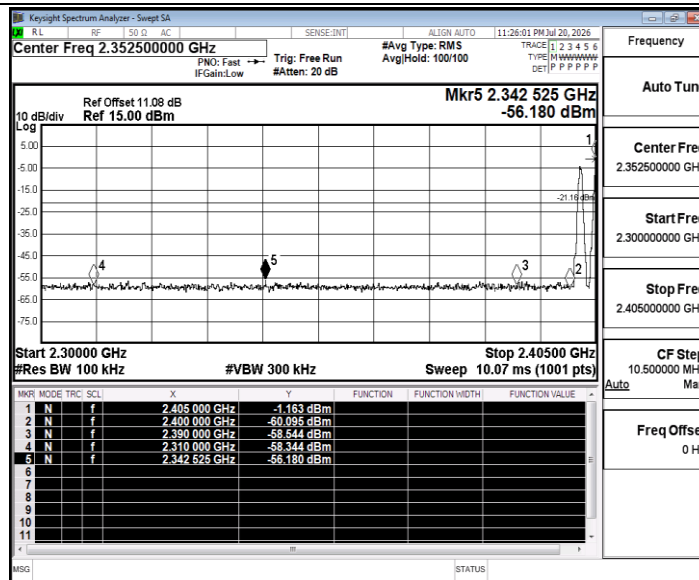
A.6 Band edge measurements

Test Result

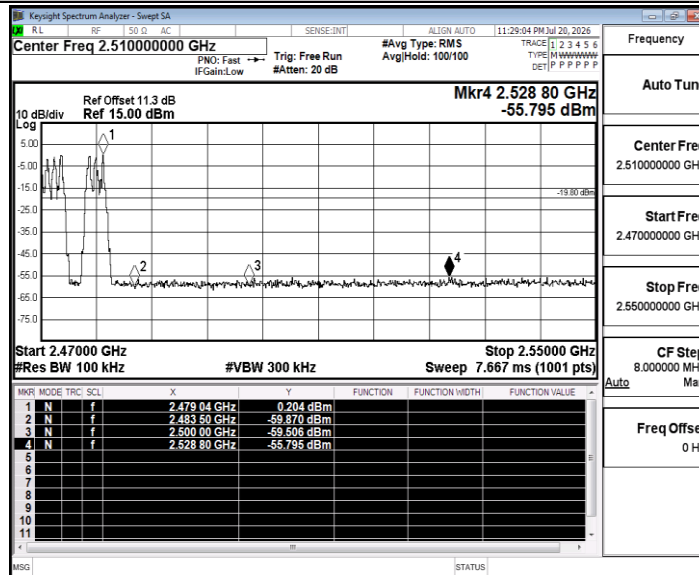
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.46	-56.51	≤ -20.46	PASS
		High	2480	0.75	-55.64	≤ -19.25	PASS
		Low	Hop_2402	-1.16	-56.18	≤ -21.16	PASS
		High	Hop_2480	0.20	-55.8	≤ -19.8	PASS
2DH5	Ant1	Low	2402	-0.71	-52.68	≤ -20.71	PASS
		High	2480	0.73	-55.67	≤ -19.27	PASS
		Low	Hop_2402	-3.84	-55.54	≤ -23.84	PASS
		High	Hop_2480	-3.54	-54.91	≤ -23.54	PASS
3DH5	Ant1	Low	2402	0.22	-49.86	≤ -19.78	PASS
		High	2480	1.02	-54.8	≤ -18.98	PASS
		Low	Hop_2402	-4.49	-51.28	≤ -24.49	PASS
		High	Hop_2480	-2.61	-55.36	≤ -22.61	PASS

Test Graphs

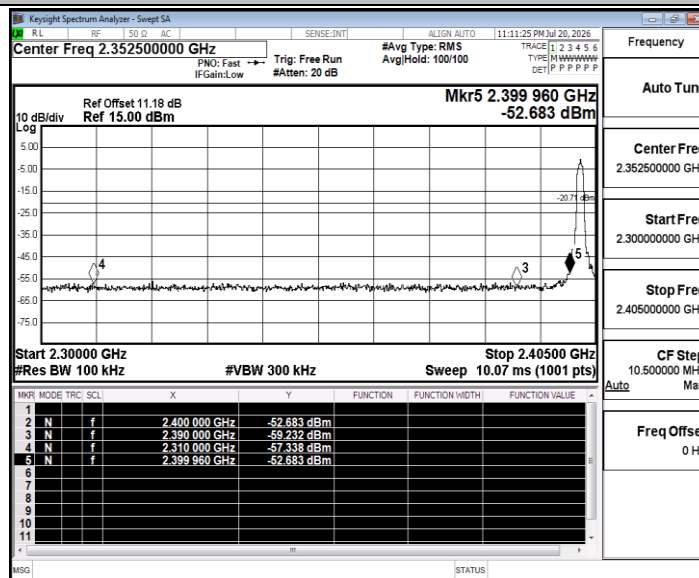




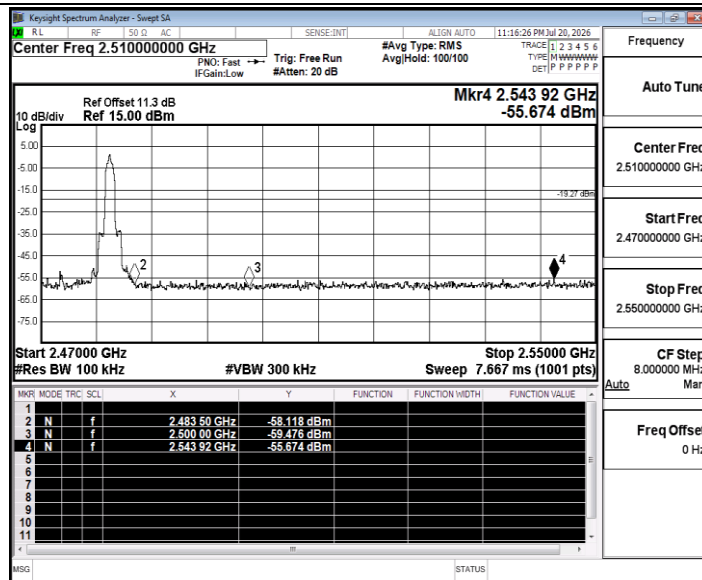
DH5_Ant1_High_Hop_2480



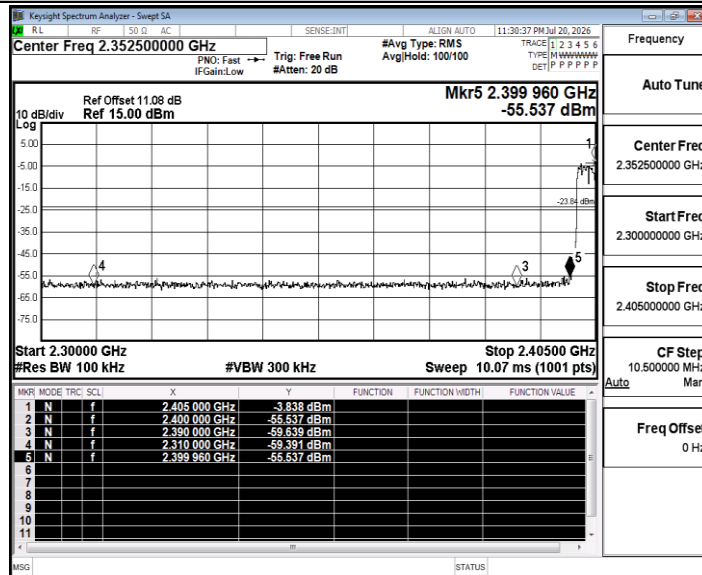
2DH5_Ant1_Low_2402



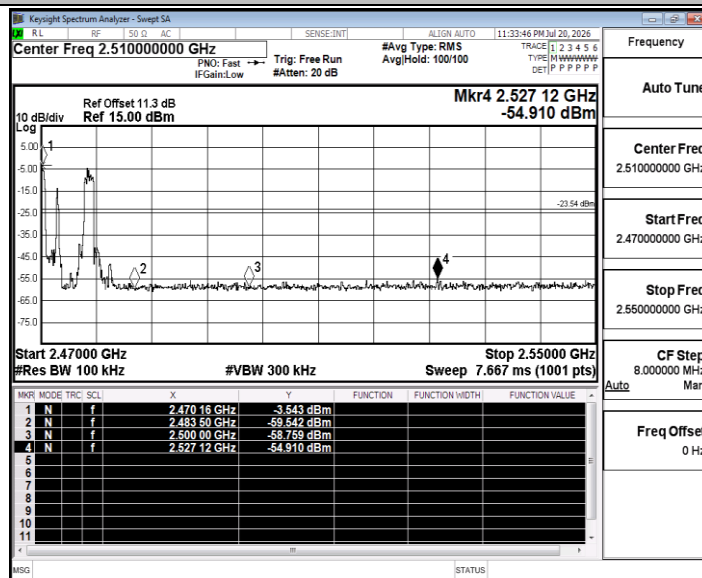
2DH5_Ant1_High_2480



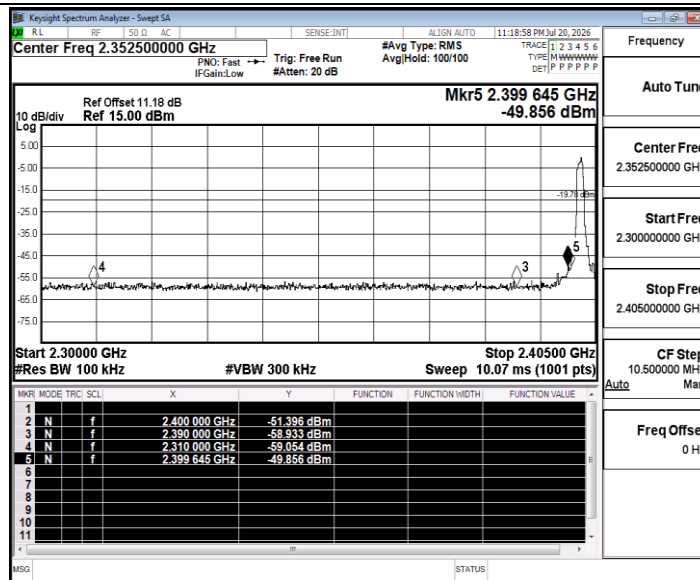
2DH5_Ant1_Low_Hop_2402



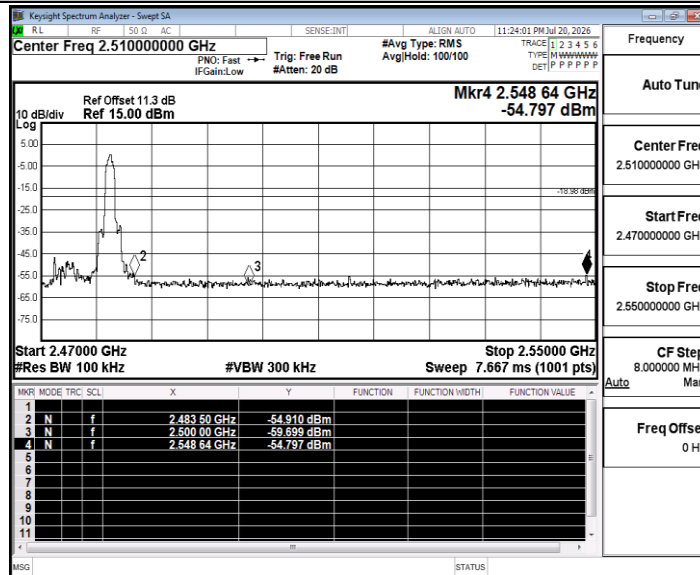
2DH5_Ant1_High_Hop_2480



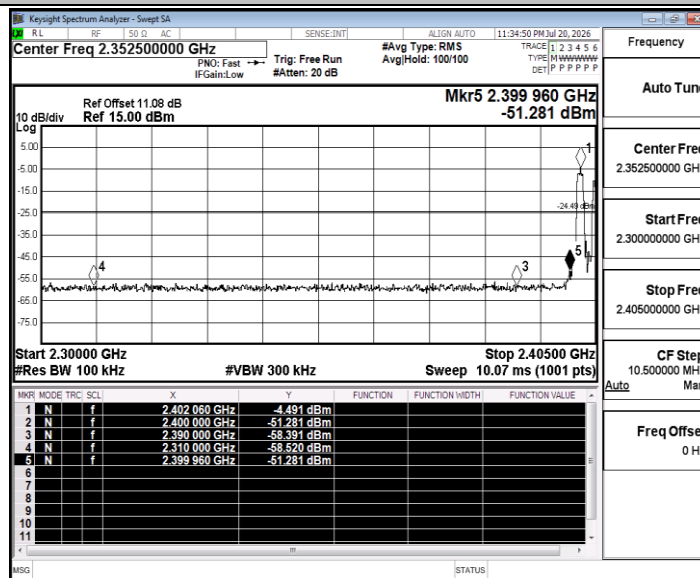
3DH5_Ant1_Low_2402



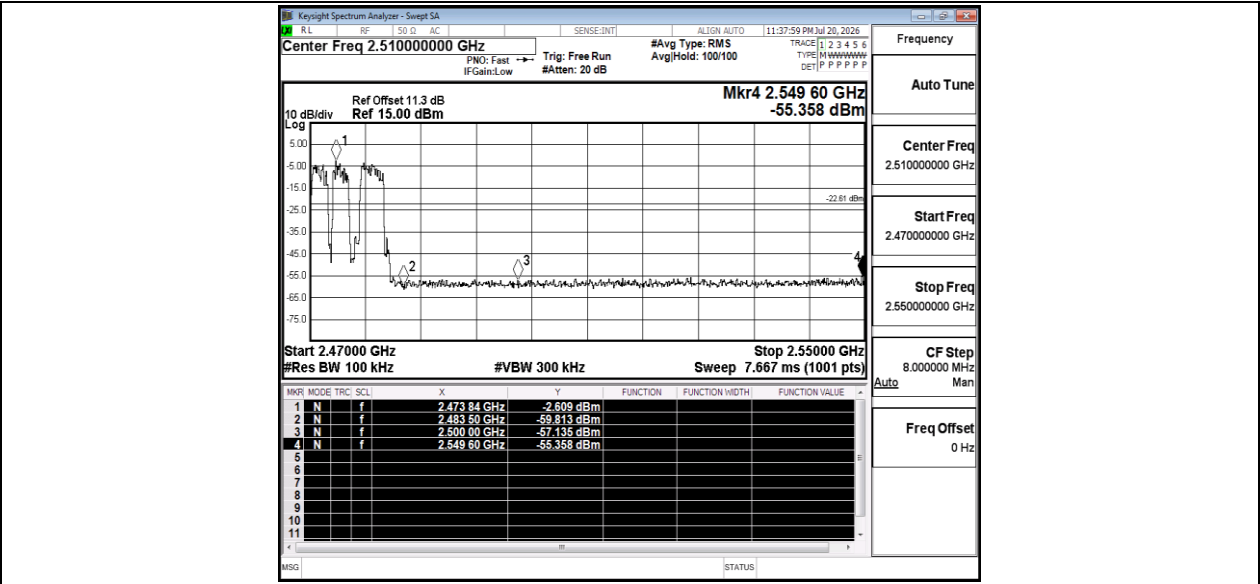
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



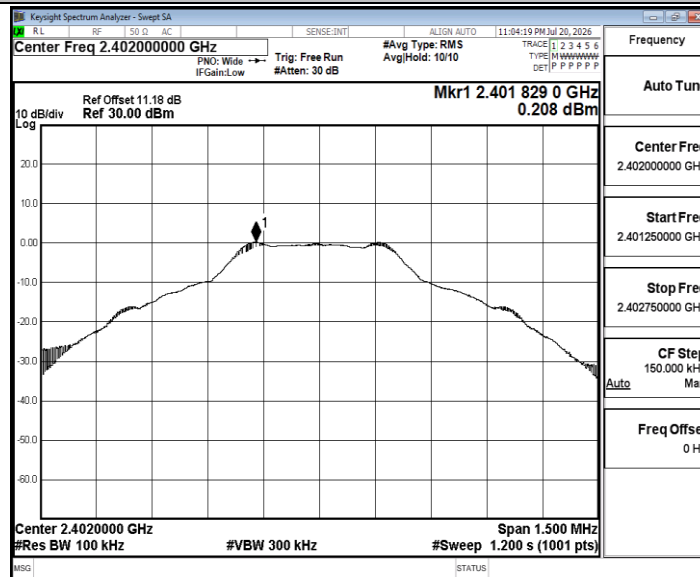
A.7 Conducted Spurious Emission

Test Result

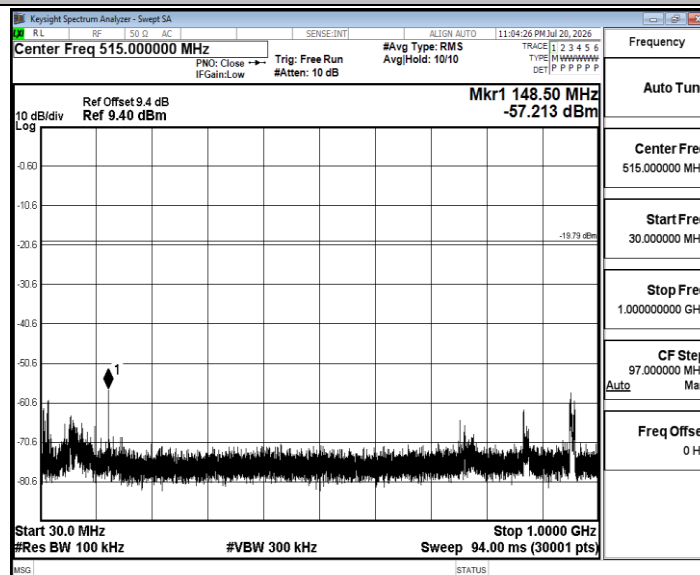
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-57.21	≤-19.79	PASS
			1000~26500	0.21	-44.14	≤-19.79	PASS
		2441	Reference	1.67	1.67	---	PASS
			30~1000	1.67	-53.1	≤-18.33	PASS
			1000~26500	1.67	-44.72	≤-18.33	PASS
		2480	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-57.19	≤-19.02	PASS
			1000~26500	0.98	-44.06	≤-19.02	PASS
2DH5	Ant1	2402	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-56.55	≤-19.86	PASS
			1000~26500	0.14	-44.3	≤-19.86	PASS
		2441	Reference	1.53	1.53	---	PASS
			30~1000	1.53	-56.8	≤-18.47	PASS
			1000~26500	1.53	-44.27	≤-18.47	PASS
		2480	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-52.98	≤-19.15	PASS
			1000~26500	0.85	-44.64	≤-19.15	PASS
3DH5	Ant1	2402	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-56.39	≤-19.72	PASS
			1000~26500	0.28	-42.67	≤-19.72	PASS
		2441	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-51.31	≤-18.27	PASS
			1000~26500	1.73	-43.42	≤-18.27	PASS
		2480	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-57.28	≤-18.96	PASS
			1000~26500	1.04	-44.19	≤-18.96	PASS

Test Graphs

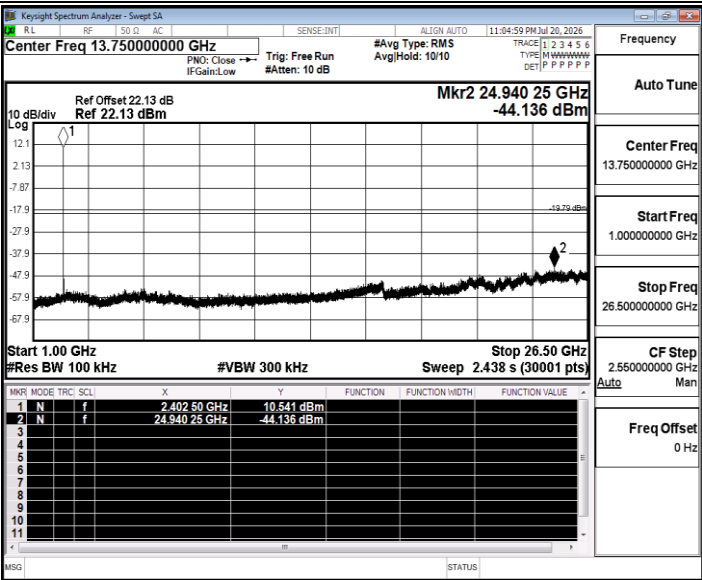
DH5_Ant1_2402_0~Reference



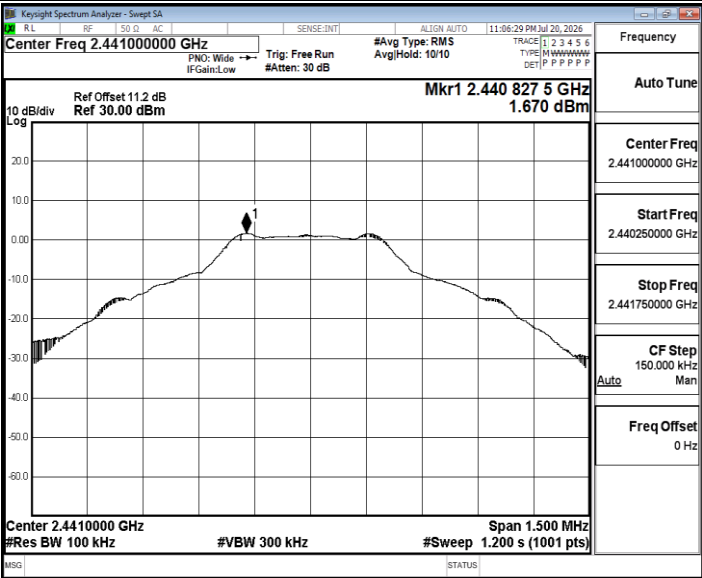
DH5_Ant1_2402_30~1000



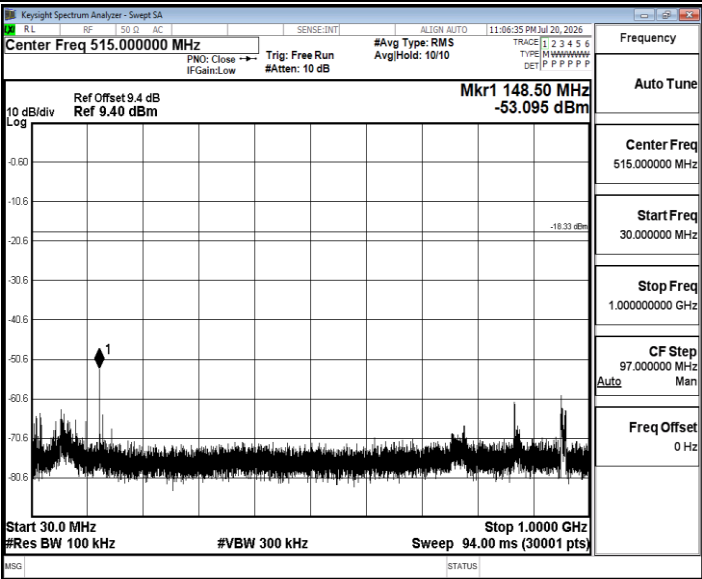
DH5_Ant1_2402_1000~26500



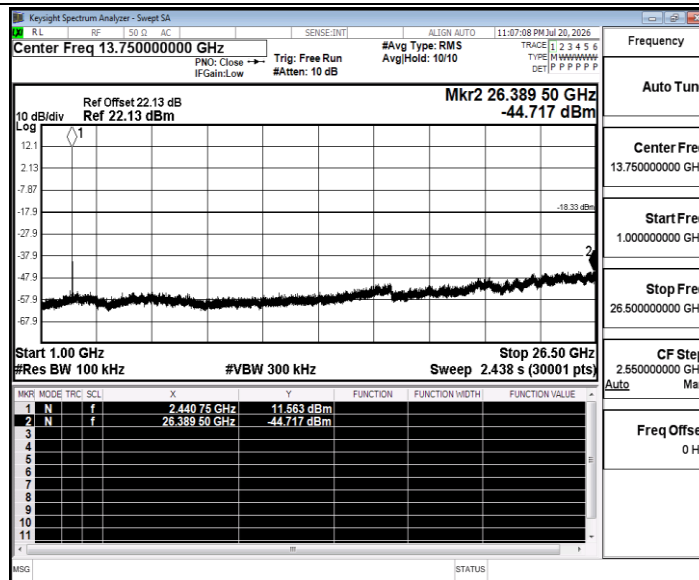
DH5_Ant1_2441_0~Reference



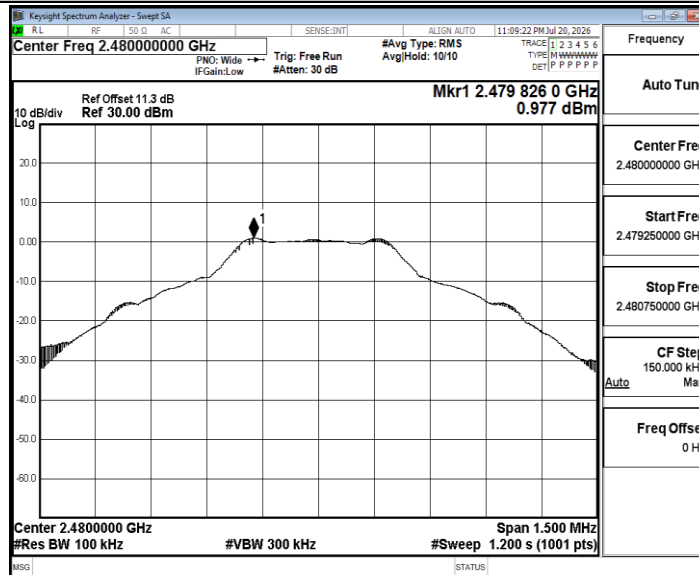
DH5_Ant1_2441_30~1000



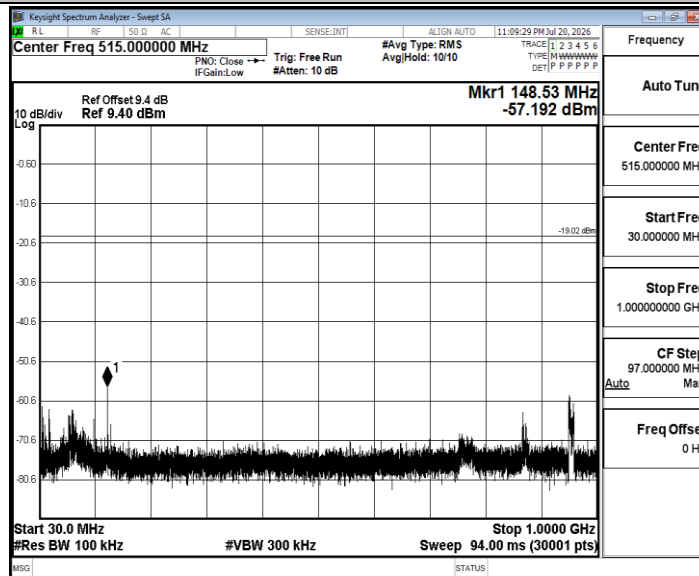
DH5_Ant1_2441_1000~26500



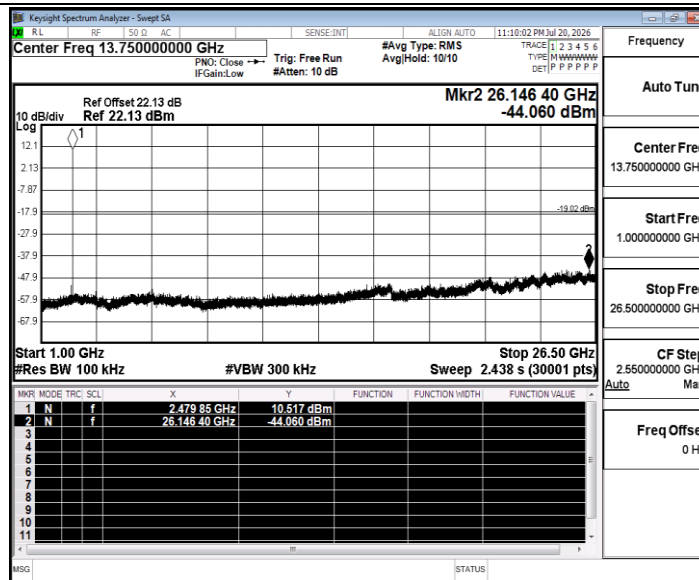
DH5_Ant1_2480_0~Reference



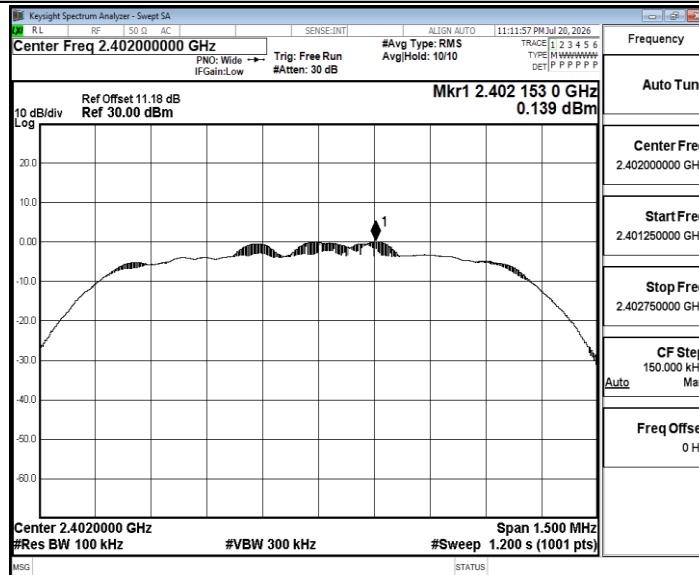
DH5_Ant1_2480_30~1000



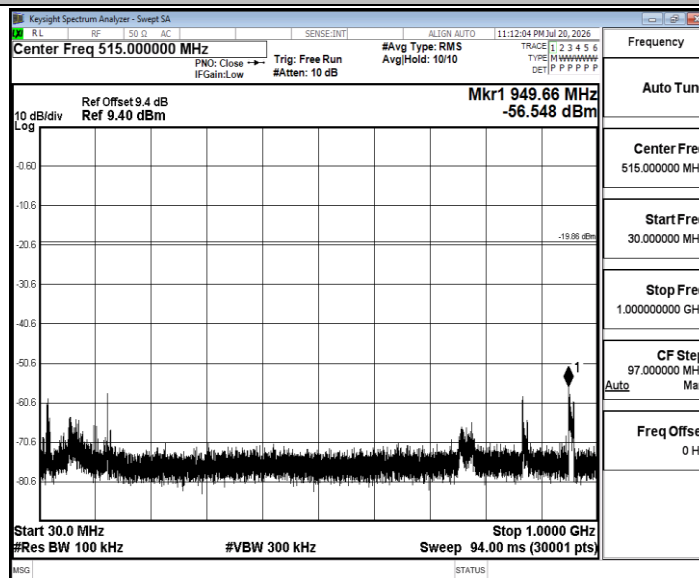
DH5_Ant1_2480_1000~26500



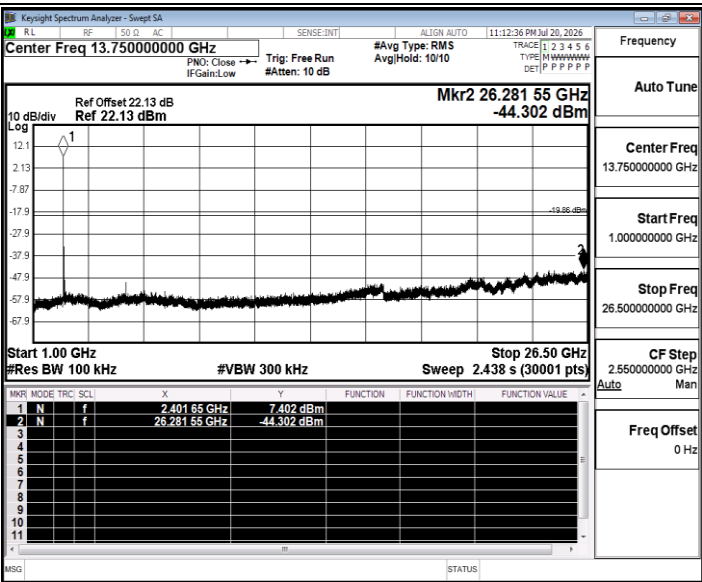
2DH5_Ant1_2402_0~Reference



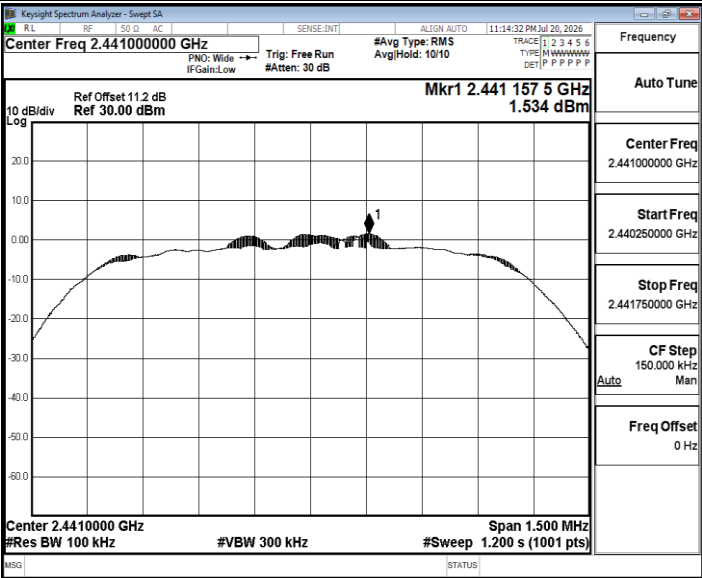
2DH5_Ant1_2402_30~1000



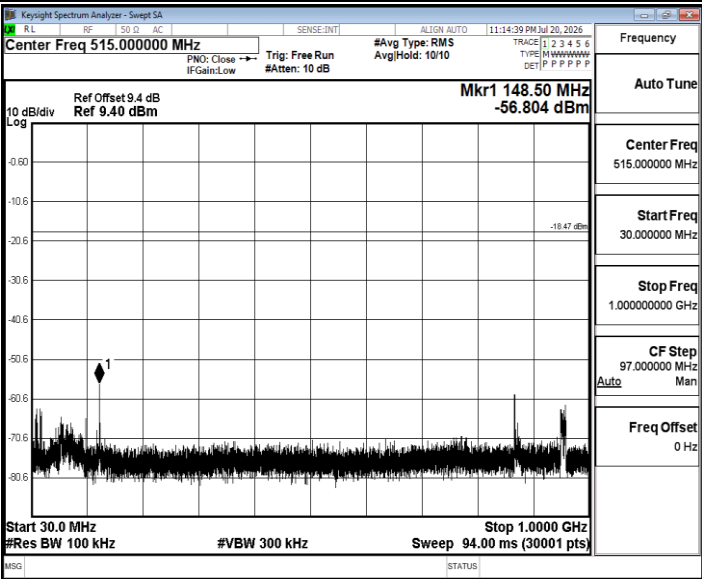
2DH5_Ant1_2402_1000~26500



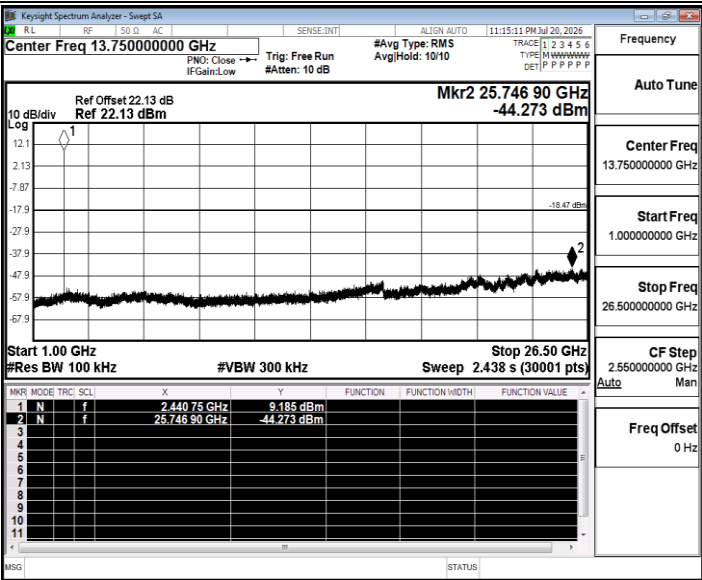
2DH5_Ant1_2441_0~Reference



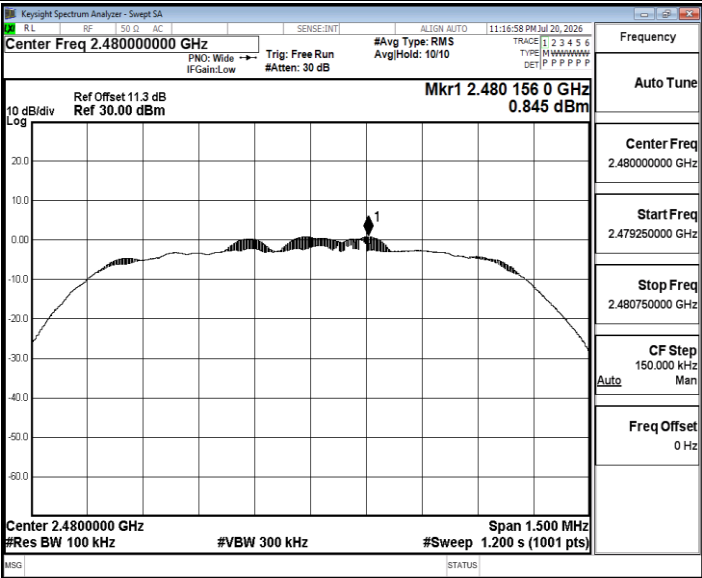
2DH5_Ant1_2441_30~1000



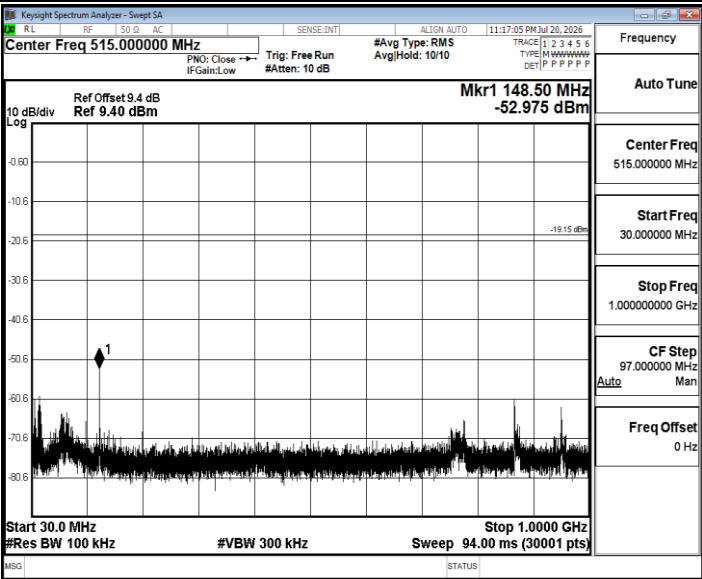
2DH5_Ant1_2441_1000~26500



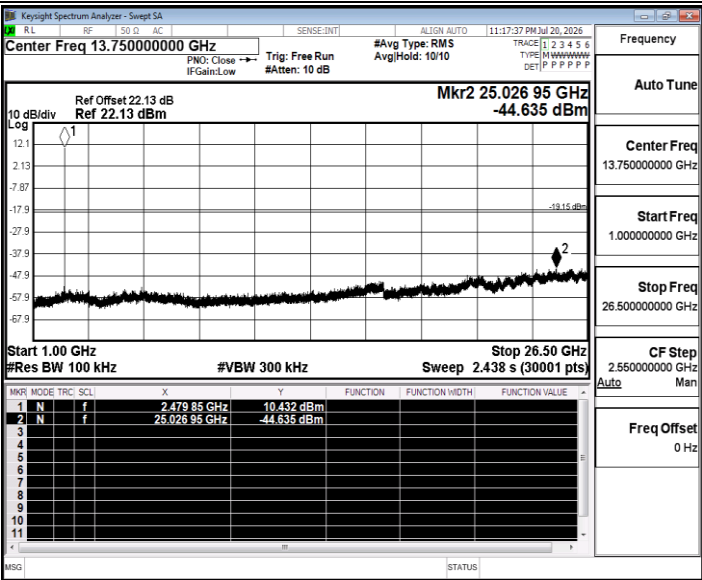
2DH5_Ant1_2480_0~Reference



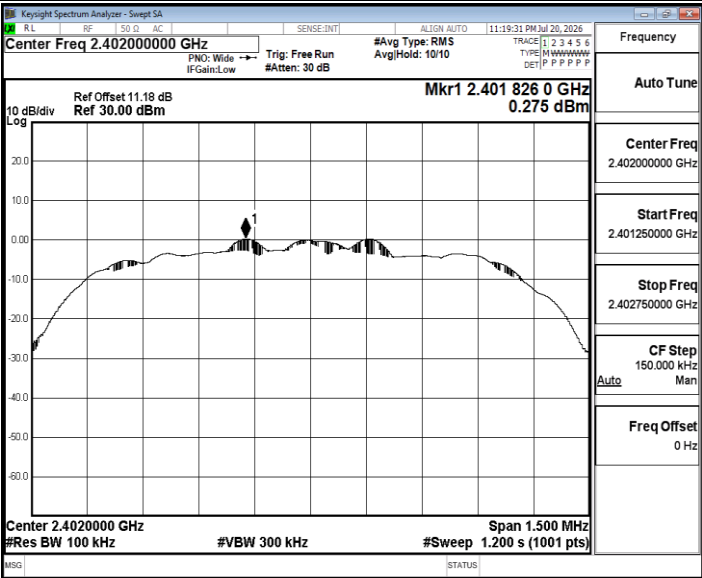
2DH5_Ant1_2480_30~1000



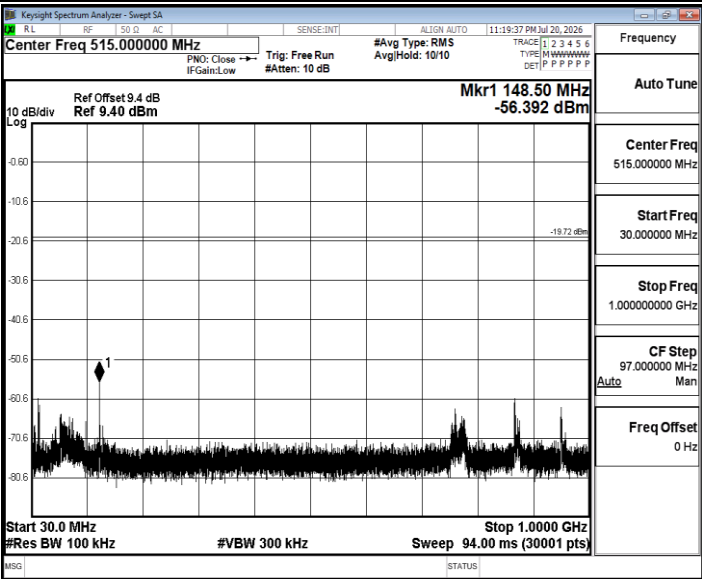
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500