

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: WIRELESS HEADPHONES

Test Model: KC-630

Environmental Conditions

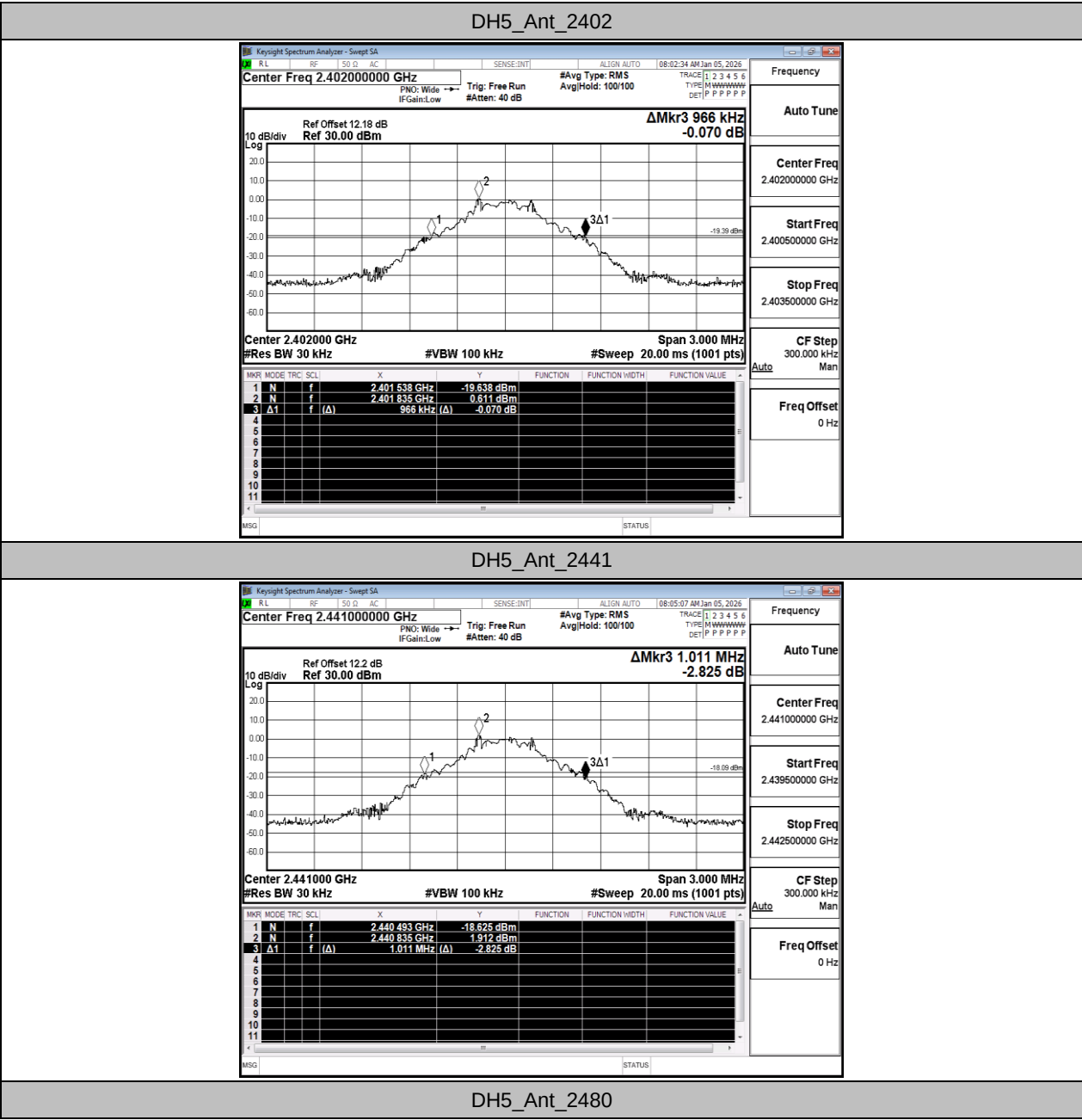
Temperature:	24.6°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

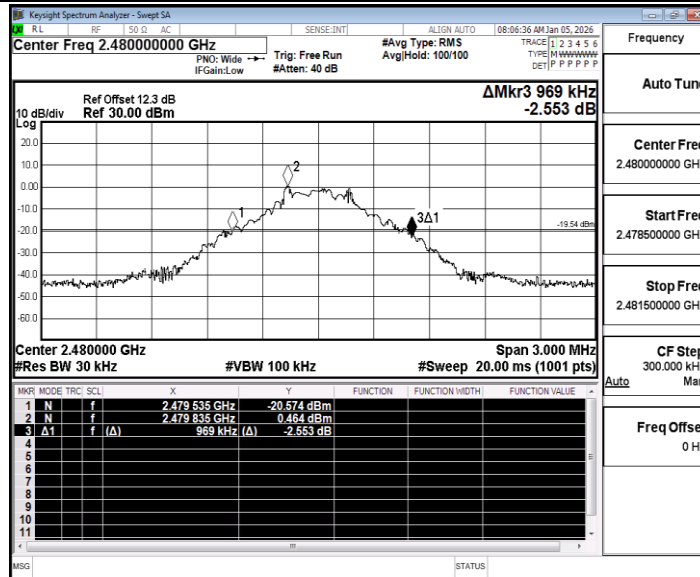
A.1 20dB Emission Bandwidth

Test Result

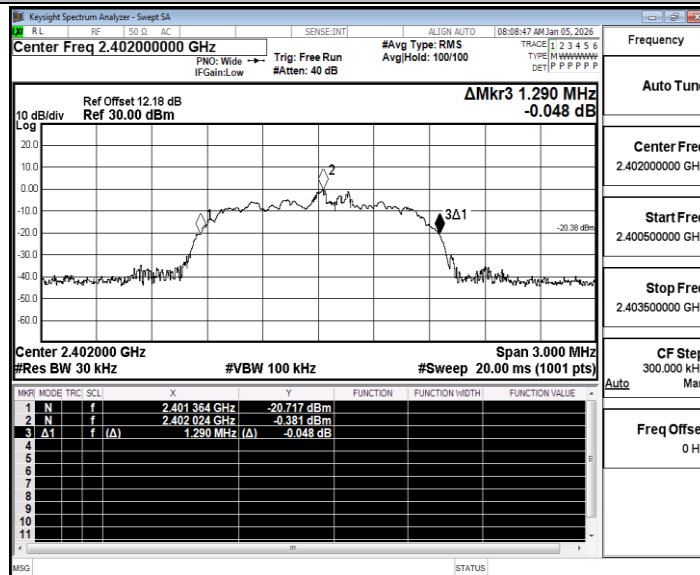
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	0.966	2401.538	2402.504	---	---
		2441	1.011	2440.493	2441.504	---	---
		2480	0.969	2479.535	2480.504	---	---
2DH5	Ant	2402	1.290	2401.364	2402.654	---	---
		2441	1.290	2440.358	2441.648	---	---
		2480	1.287	2479.364	2480.651	---	---
3DH5	Ant	2402	1.299	2401.349	2402.648	---	---
		2441	1.299	2440.349	2441.648	---	---
		2480	1.299	2479.346	2480.645	---	---

Test Graphs

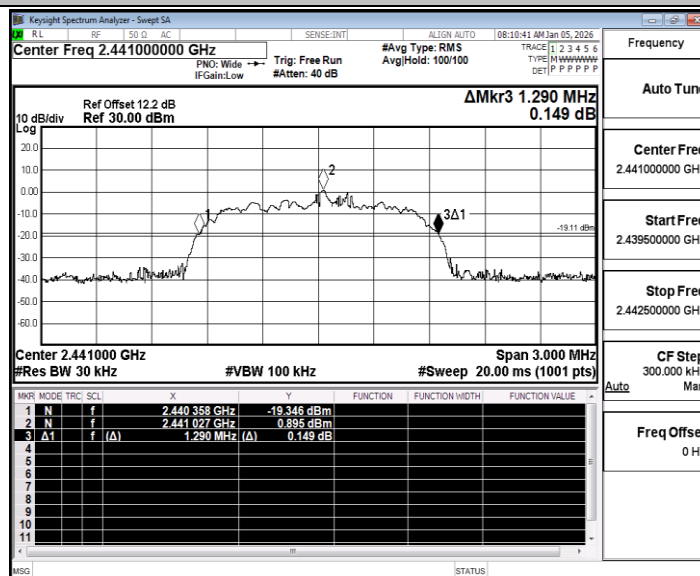




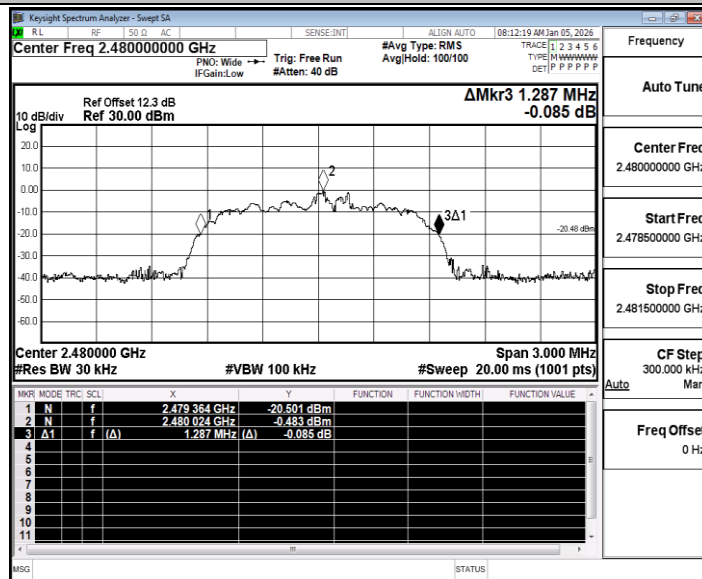
2DH5_Ant_2402



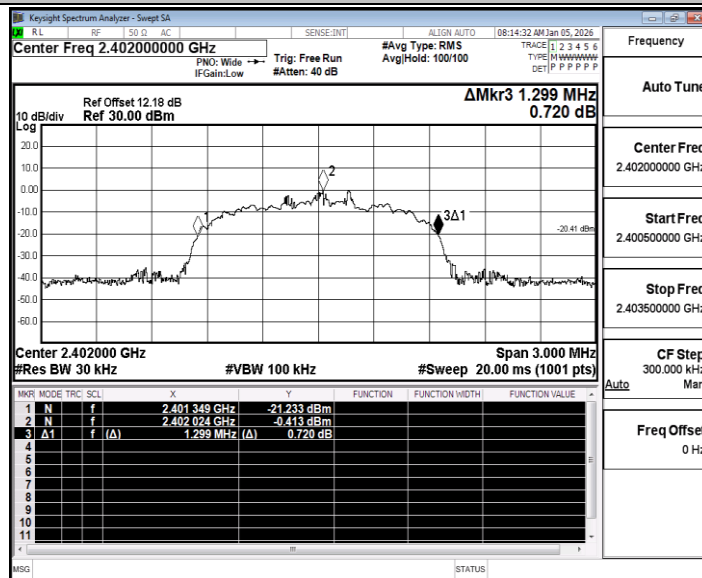
2DH5_Ant_2441



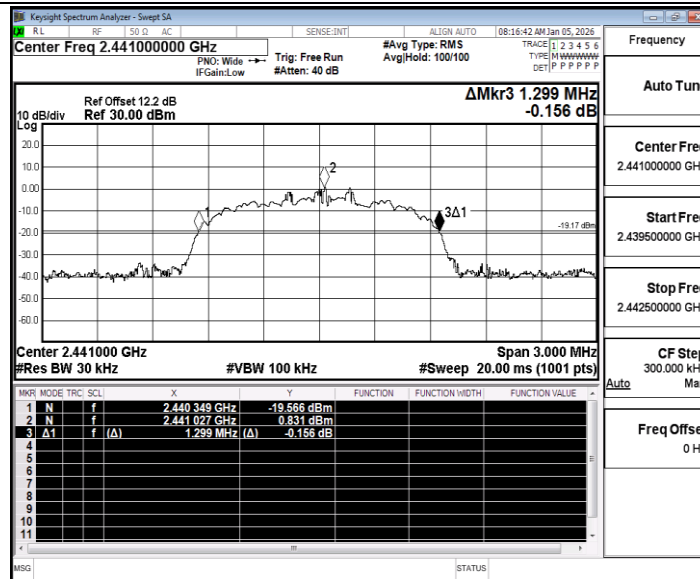
2DH5_Ant_2480



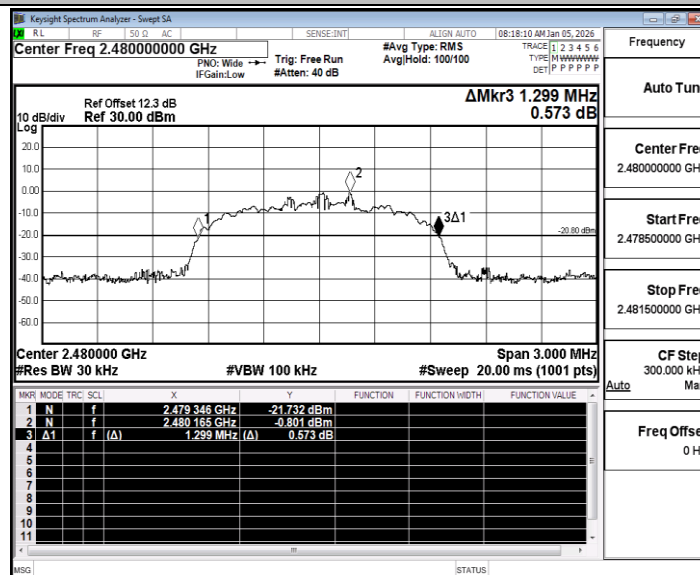
3DH5_Ant_2402



3DH5_Ant_2441



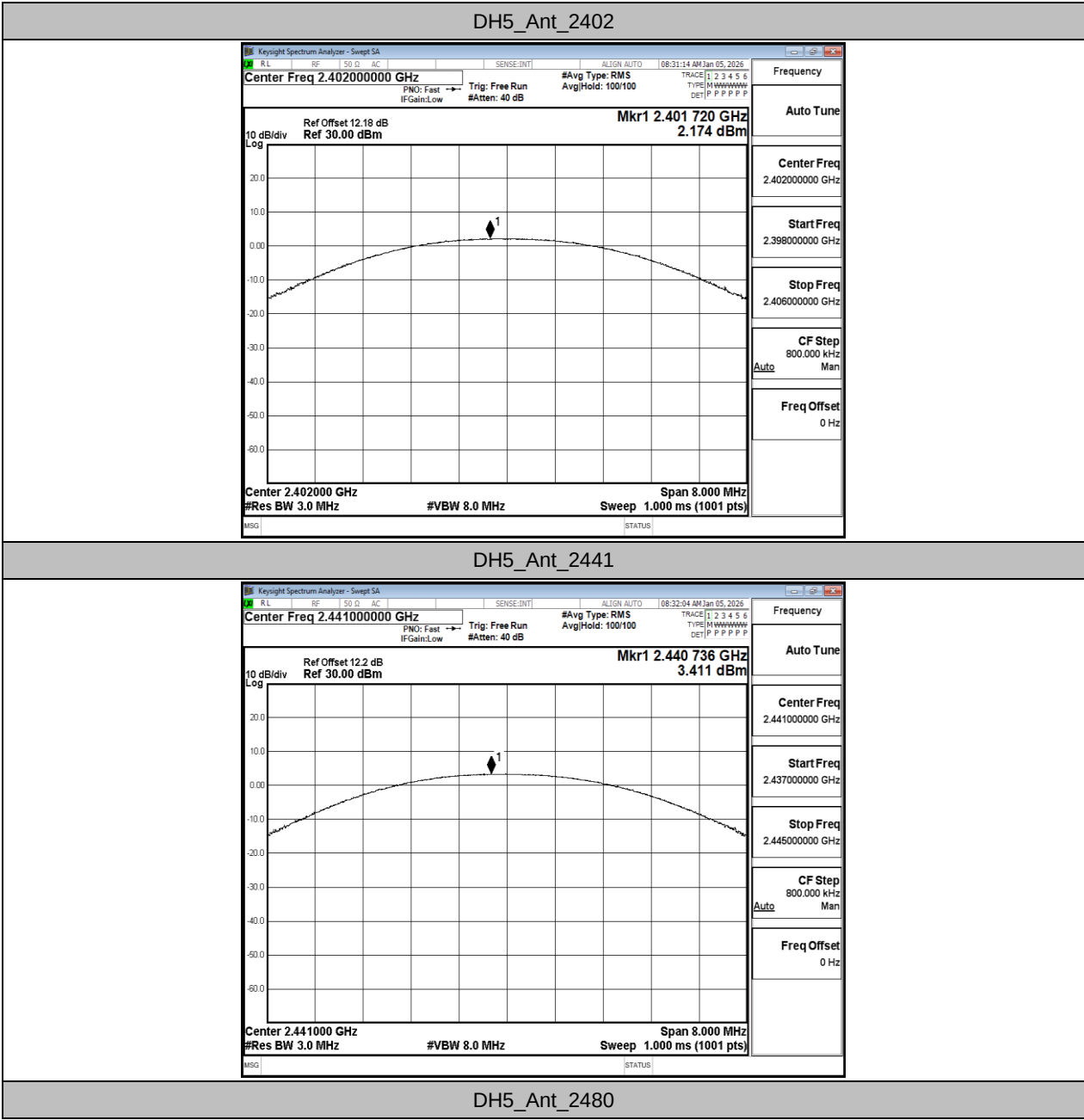
3DH5_Ant_2480

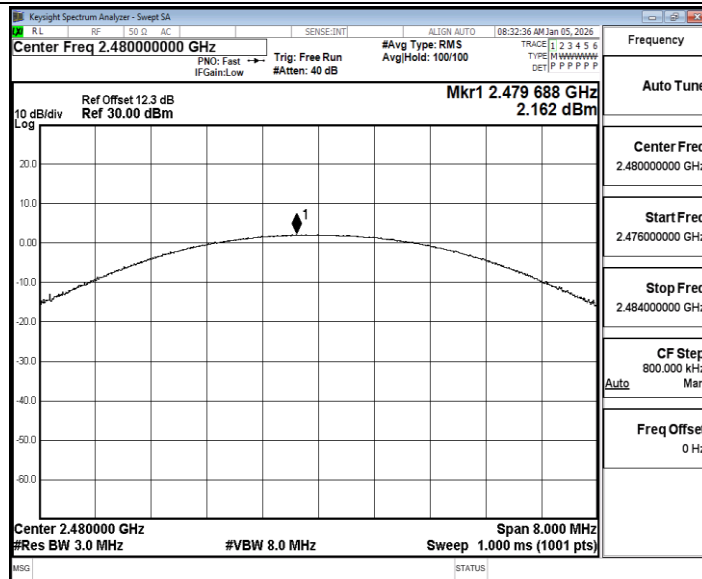


A.2 Maximum Peak Conducted Output Power

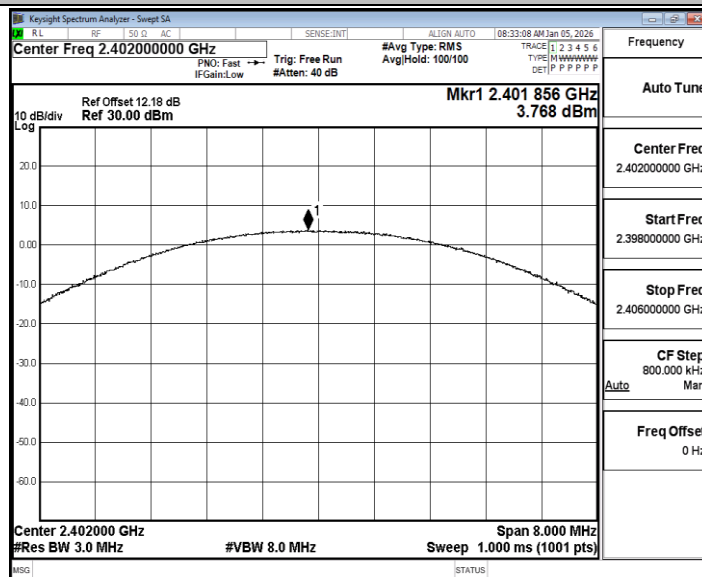
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant	2402	2.17	≤20.97	PASS
		2441	3.41	≤20.97	PASS
		2480	2.16	≤20.97	PASS
2DH5	Ant	2402	3.77	≤20.97	PASS
		2441	4.64	≤20.97	PASS
		2480	3.23	≤20.97	PASS
3DH5	Ant	2402	3.93	≤20.97	PASS
		2441	4.67	≤20.97	PASS
		2480	3.14	≤20.97	PASS

Test Graphs

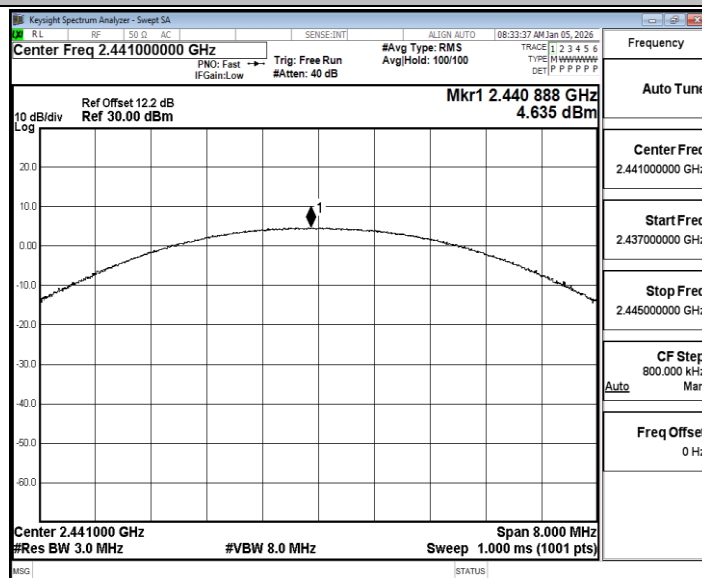




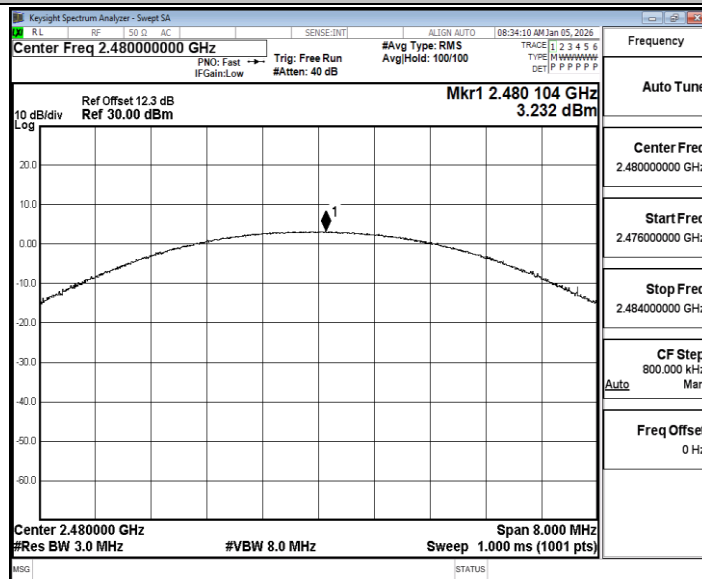
2DH5_Ant_2402



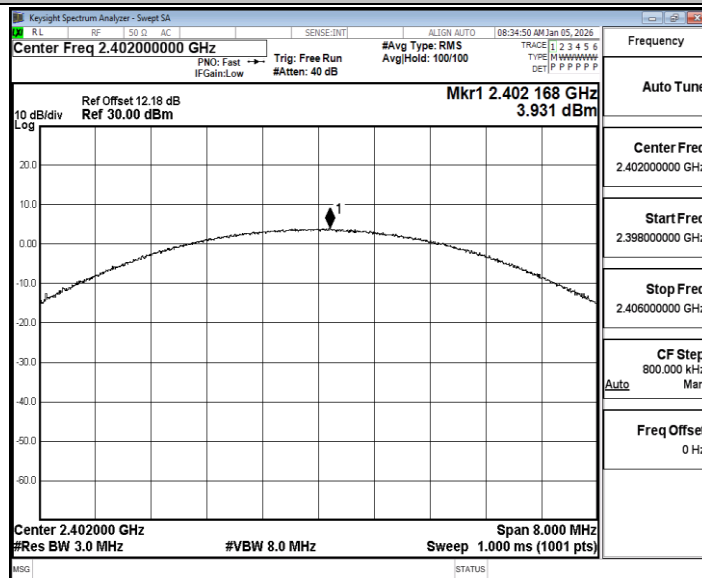
2DH5_Ant_2441



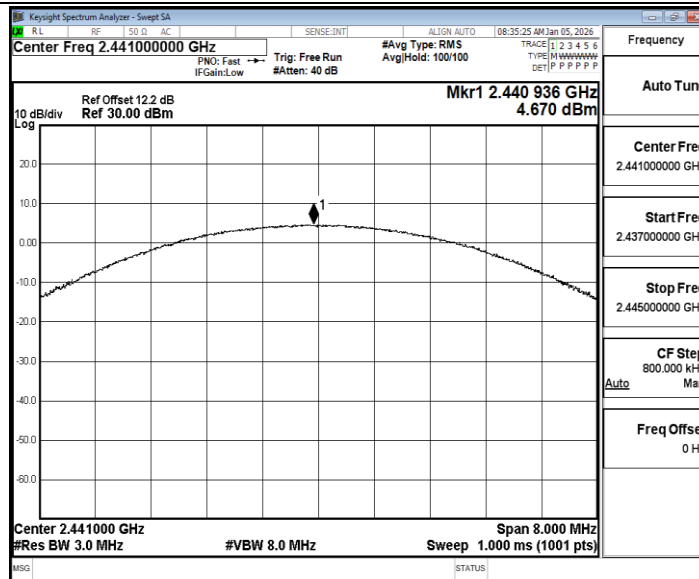
2DH5_Ant_2480



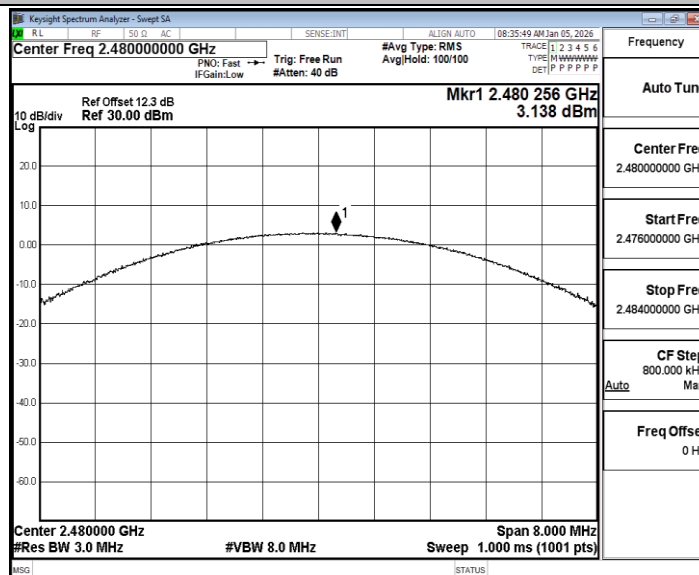
3DH5_Ant_2402



3DH5_Ant_2441



3DH5_Ant_2480

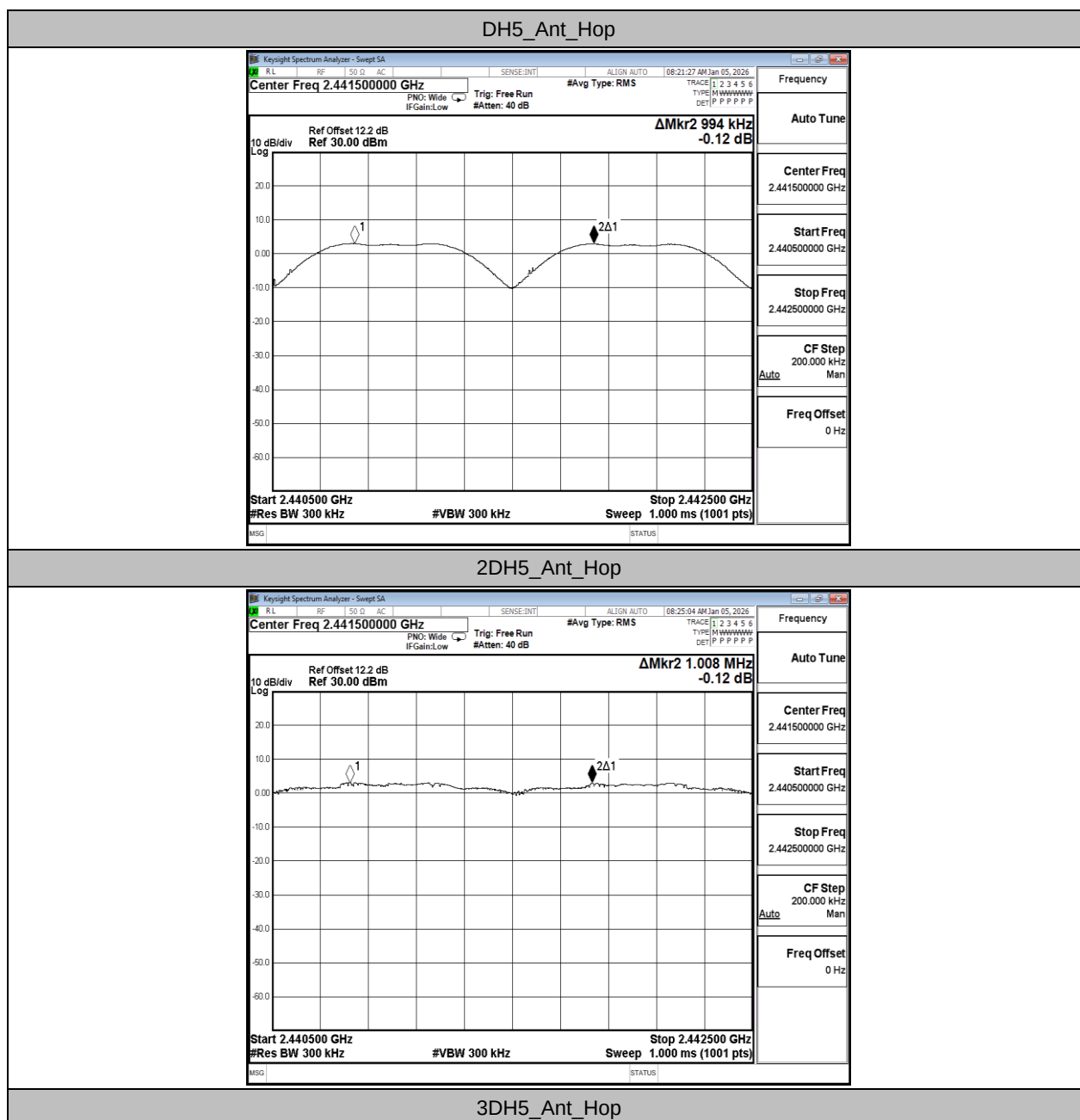


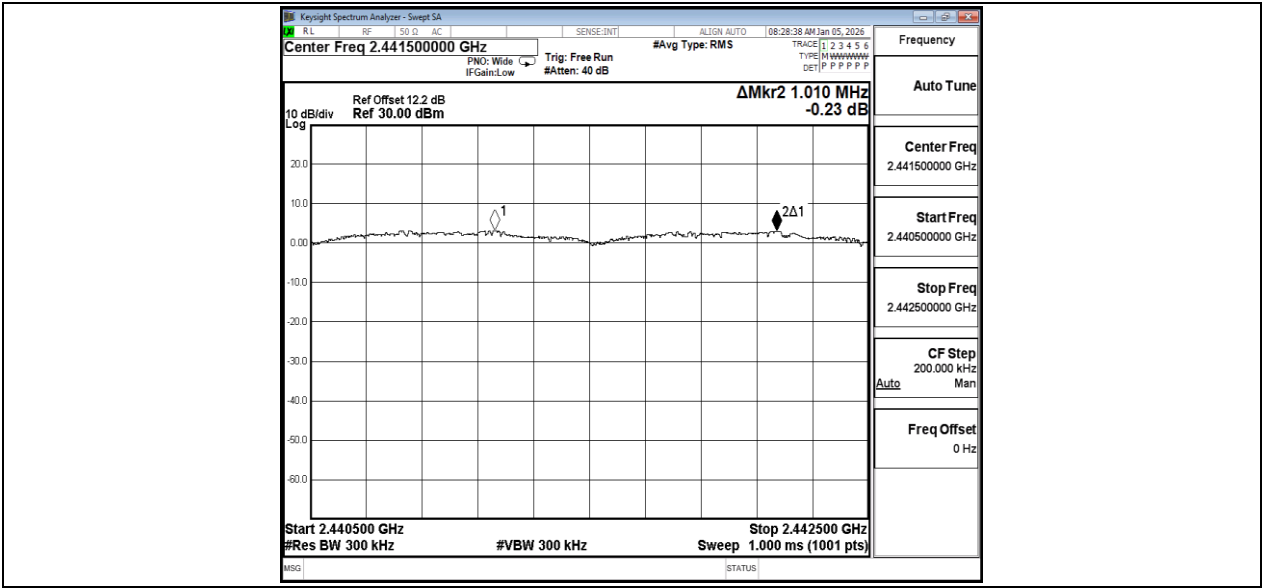
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	0.994	≥ 0.674	PASS
2DH5	Ant	Hop	1.008	≥ 0.860	PASS
3DH5	Ant	Hop	1.01	≥ 0.866	PASS

Test Graphs



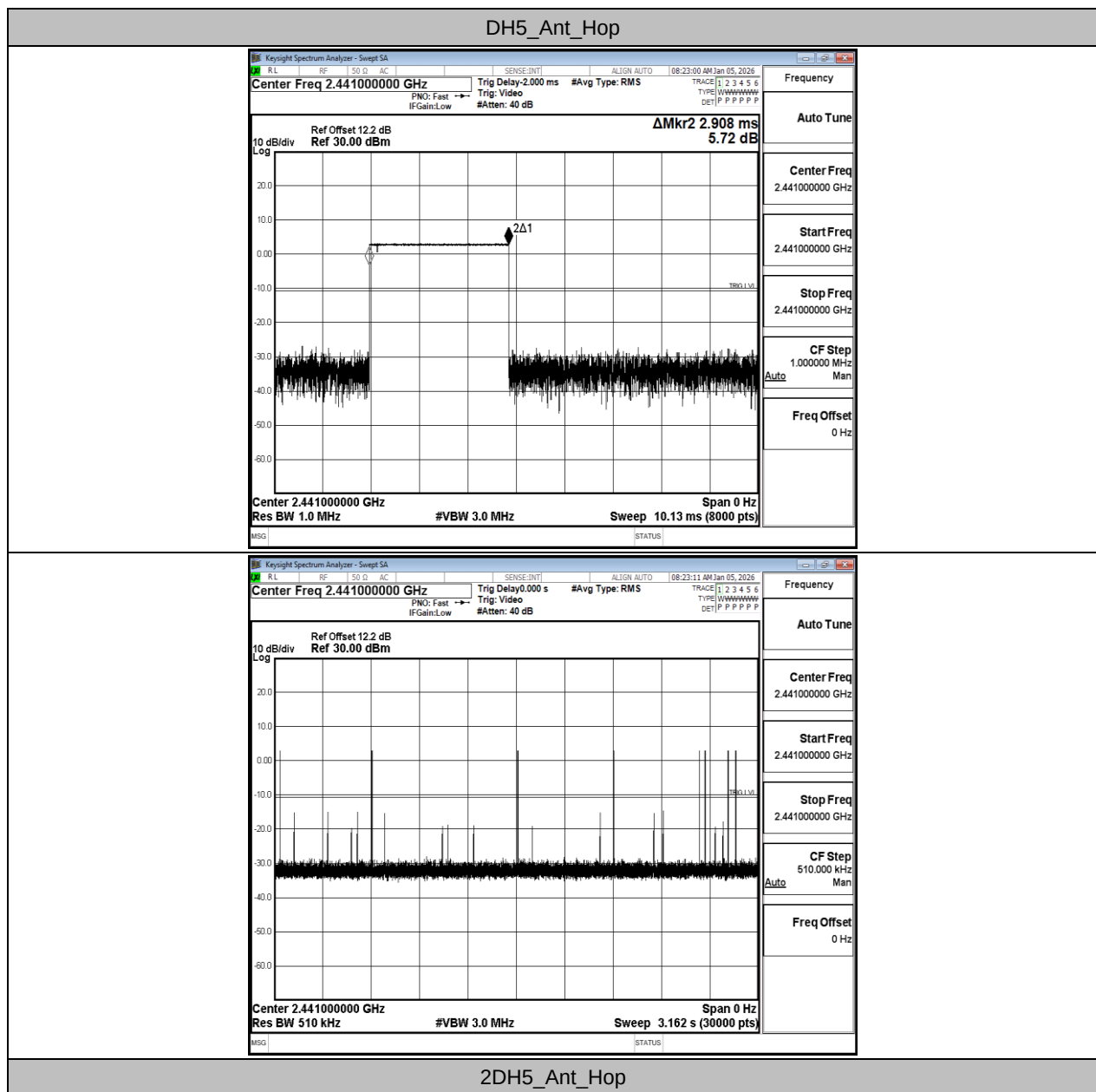


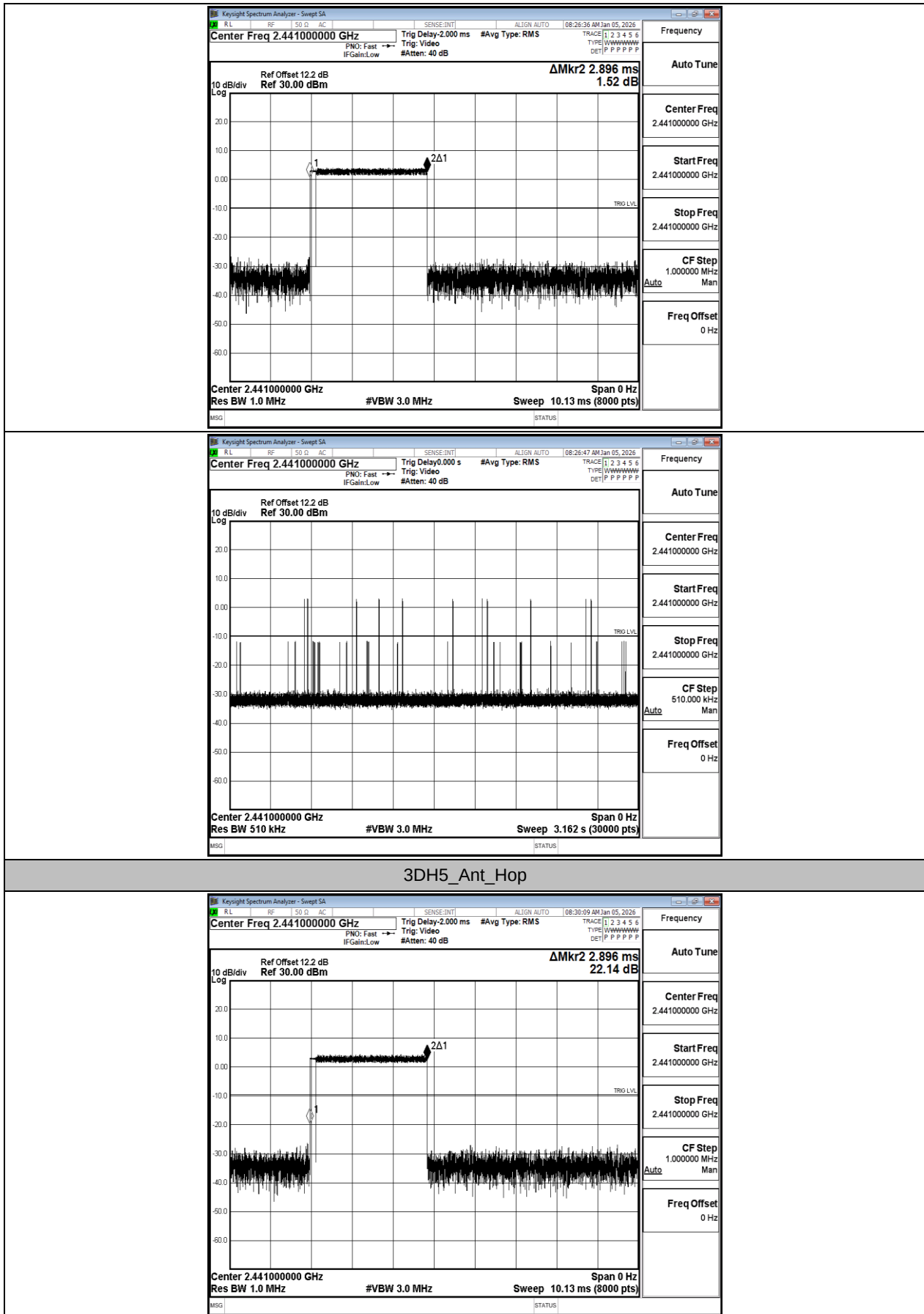
A.4 Time of occupancy

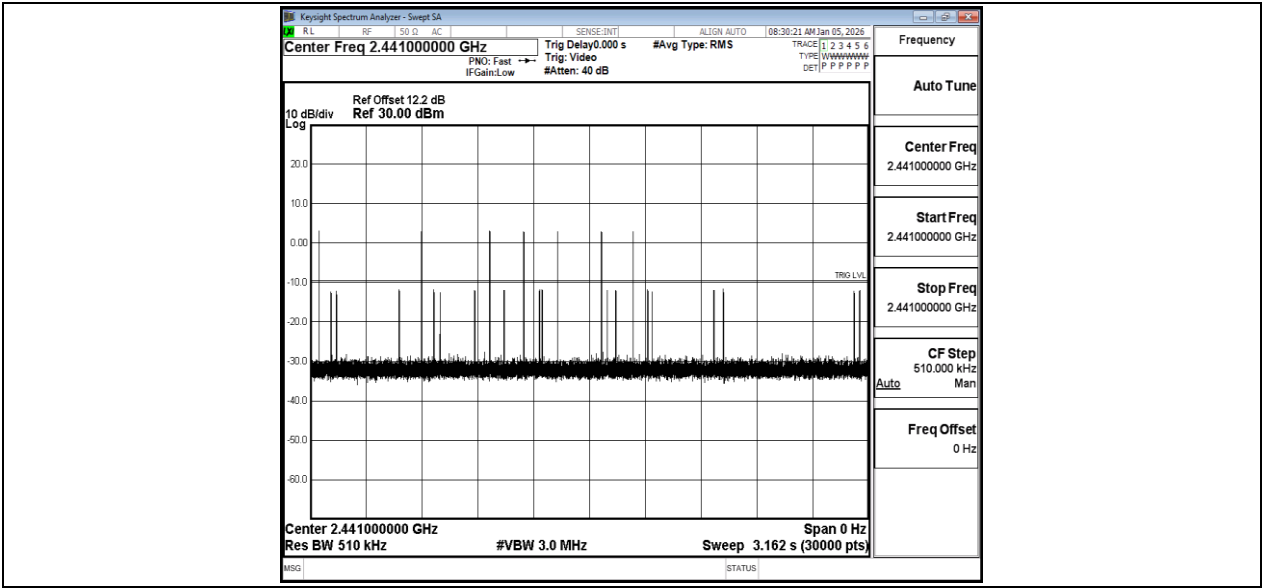
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.908	90	0.262	≤0.4	PASS
2DH5	Ant	Hop	2.896	120	0.348	≤0.4	PASS
3DH5	Ant	Hop	2.896	90	0.261	≤0.4	PASS

Test Graphs







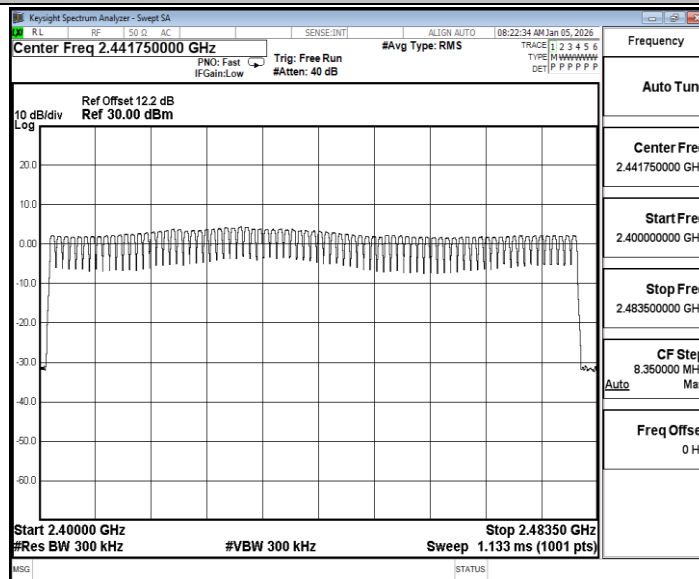
A.5 Number of hopping channels

Test Result

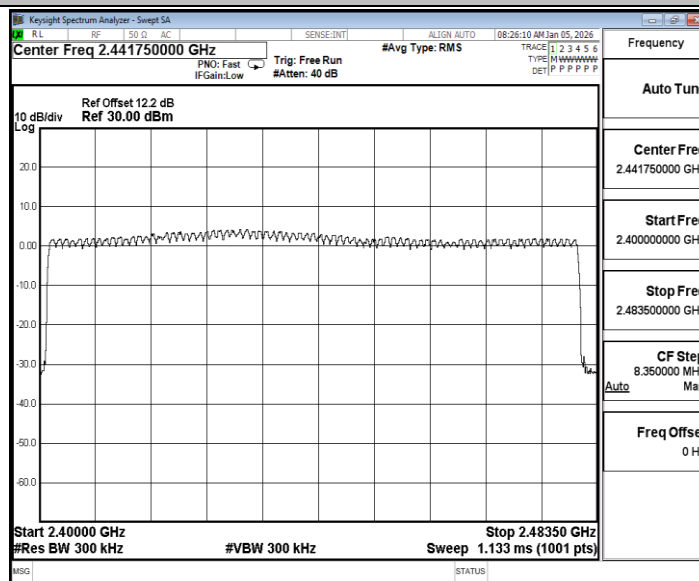
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant	Hop	79	≥ 15	PASS
2DH5	Ant	Hop	79	≥ 15	PASS
3DH5	Ant	Hop	79	≥ 15	PASS

Test Graphs

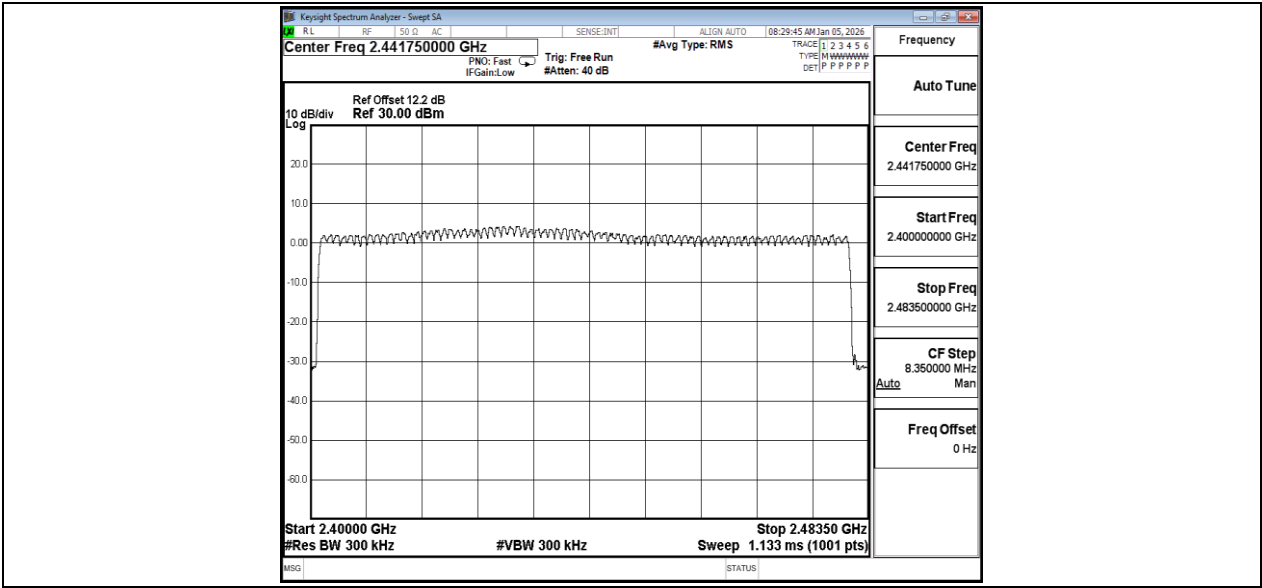
DH5_Ant_Hop



2DH5_Ant_Hop



3DH5_Ant_Hop



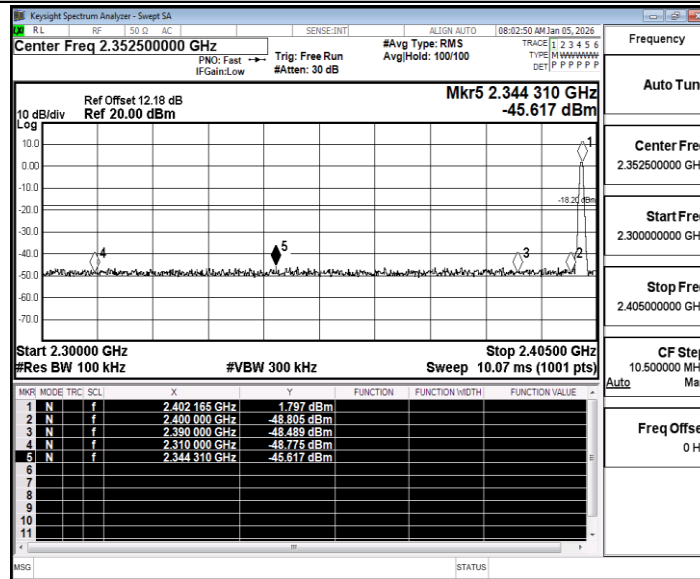
A.6 Band edge measurements

Test Result

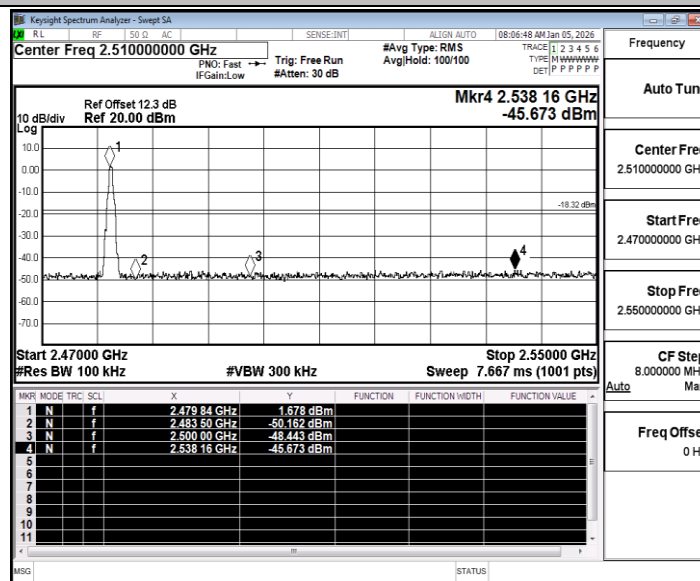
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	1.80	-45.62	≤ -18.2	PASS
		High	2480	1.68	-45.67	≤ -18.32	PASS
		Low	Hop_2402	0.79	-45.28	≤ -19.21	PASS
		High	Hop_2480	1.49	-45.21	≤ -18.52	PASS
2DH5	Ant	Low	2402	1.61	-45.35	≤ -18.39	PASS
		High	2480	0.99	-43.38	≤ -19.01	PASS
		Low	Hop_2402	-1.48	-46.06	≤ -21.48	PASS
		High	Hop_2480	-2.01	-44.43	≤ -22.01	PASS
3DH5	Ant	Low	2402	1.84	-45.15	≤ -18.16	PASS
		High	2480	1.64	-45.26	≤ -18.36	PASS
		Low	Hop_2402	-1.61	-45.21	≤ -21.61	PASS
		High	Hop_2480	-0.80	-44.74	≤ -20.8	PASS

Test Graphs

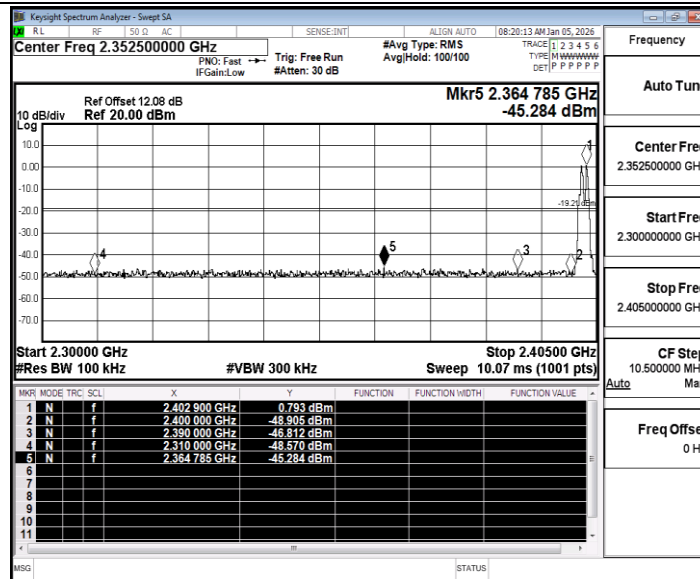
DH5_Ant_Low_2402



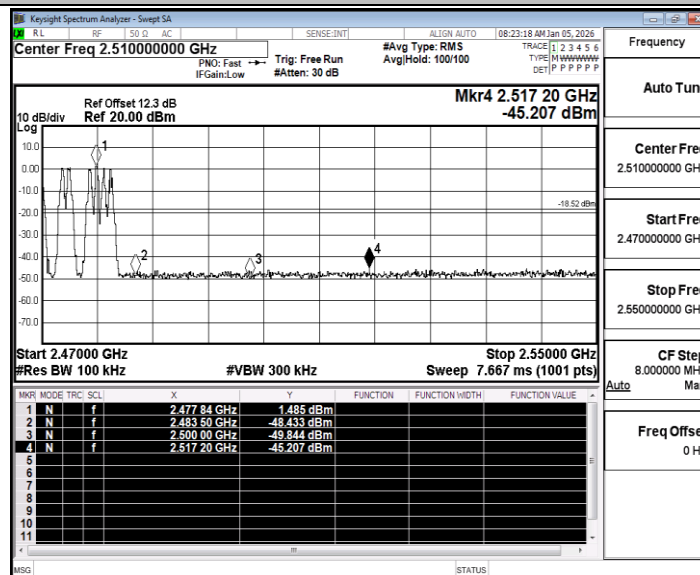
DH5_Ant_High_2480



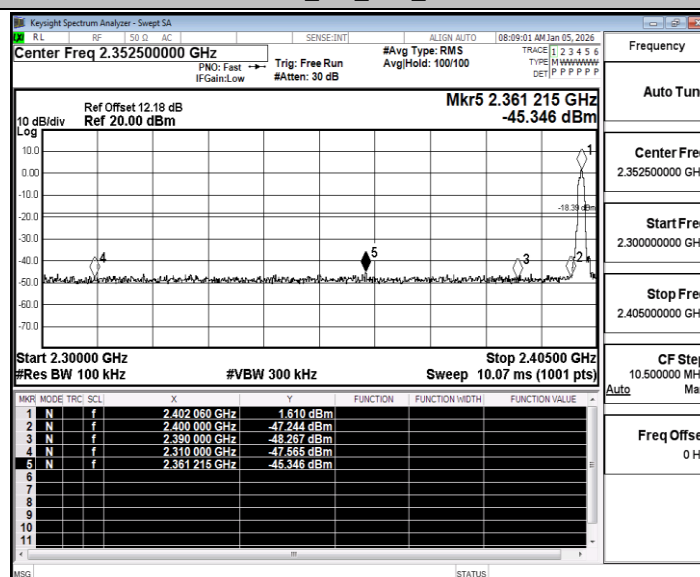
DH5_Ant_Low_Hop_2402



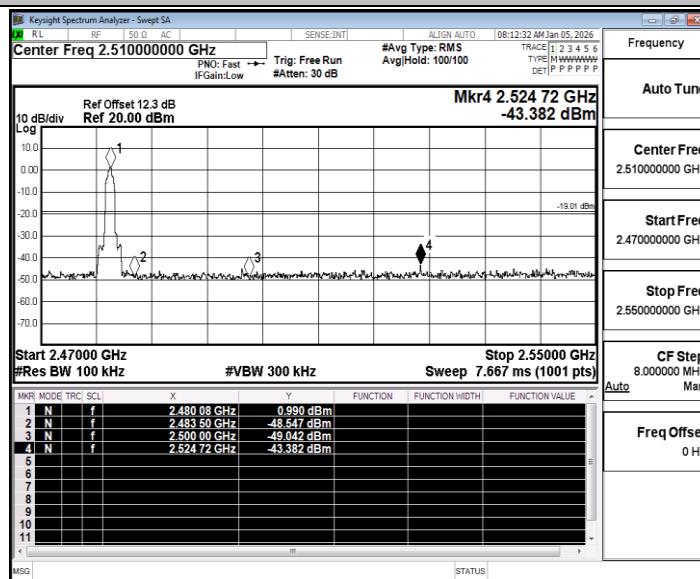
DH5_Ant_High_Hop_2480



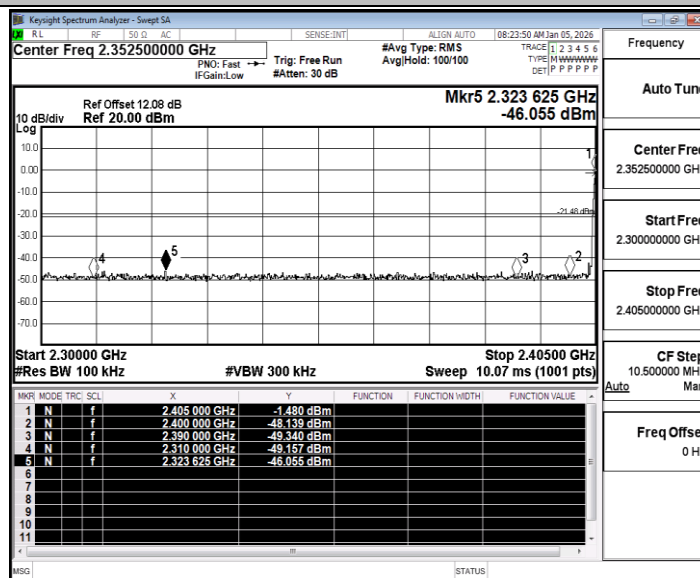
2DH5_Ant_Low_2402



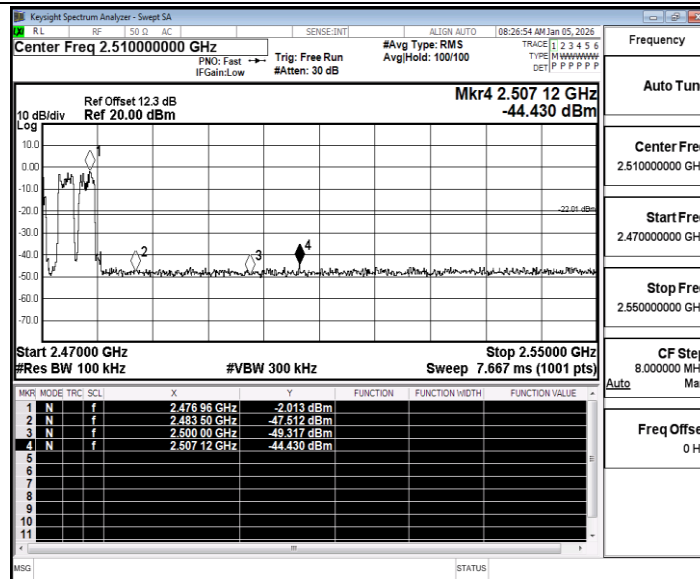
2DH5_Ant_High_2480



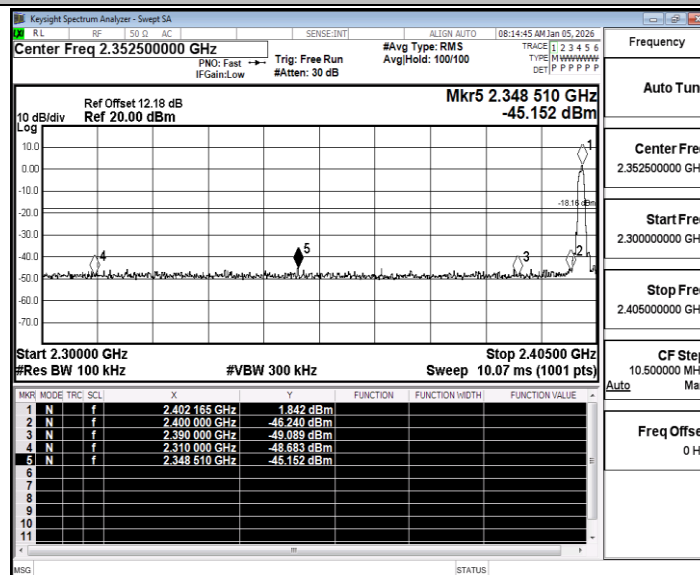
2DH5_Ant_Low_Hop_2402



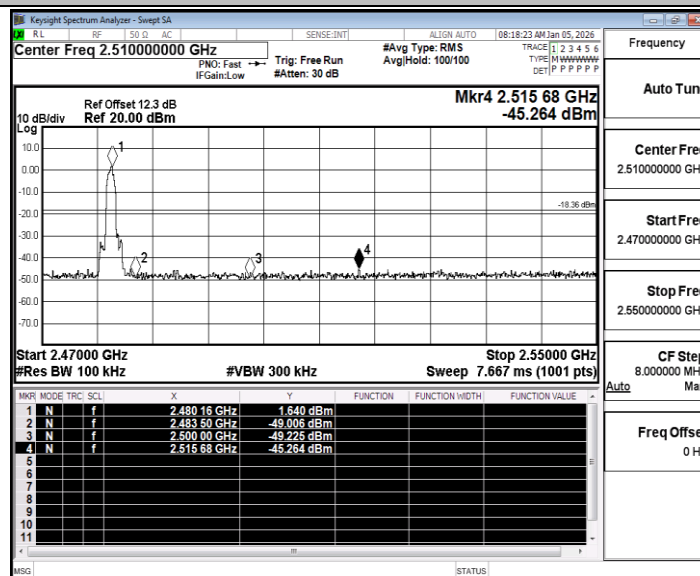
2DH5_Ant_High_Hop_2480



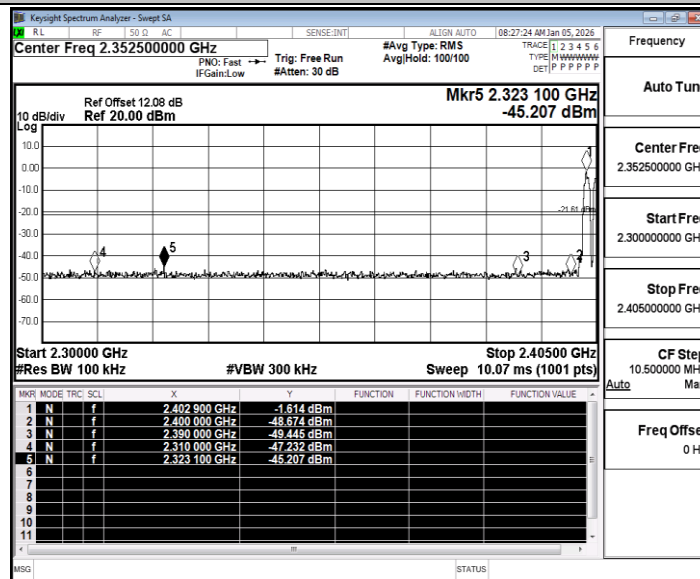
3DH5_Ant_Low_2402



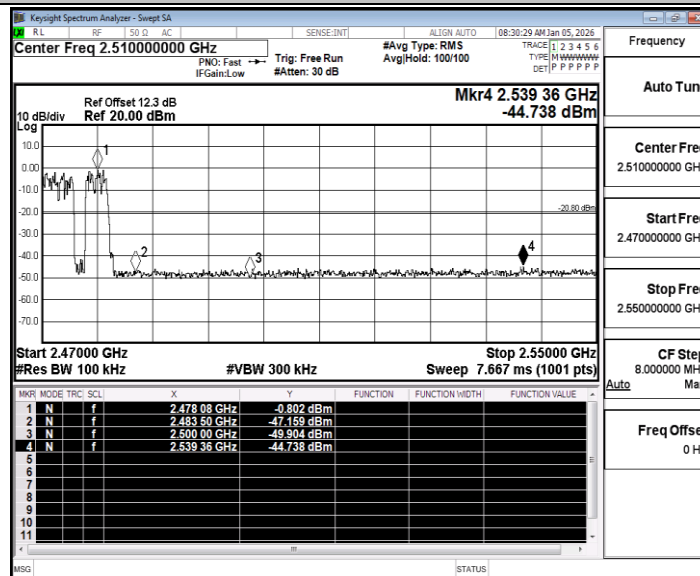
3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402



3DH5_Ant_High_Hop_2480



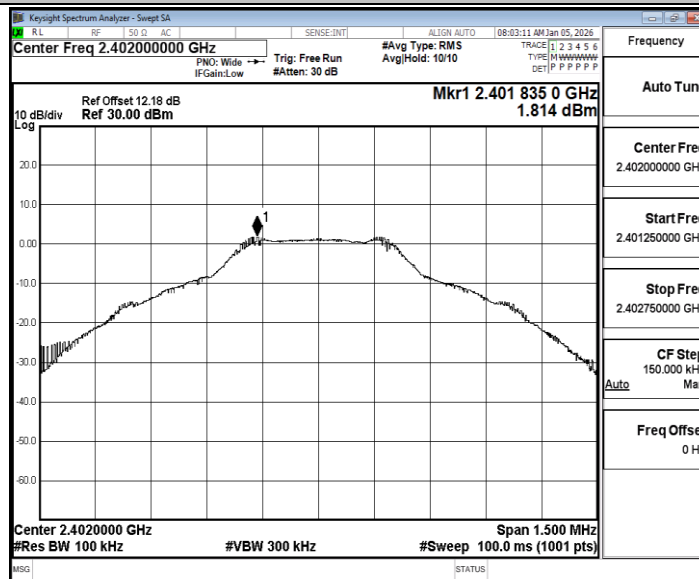
A.7 Conducted Spurious Emission

Test Result

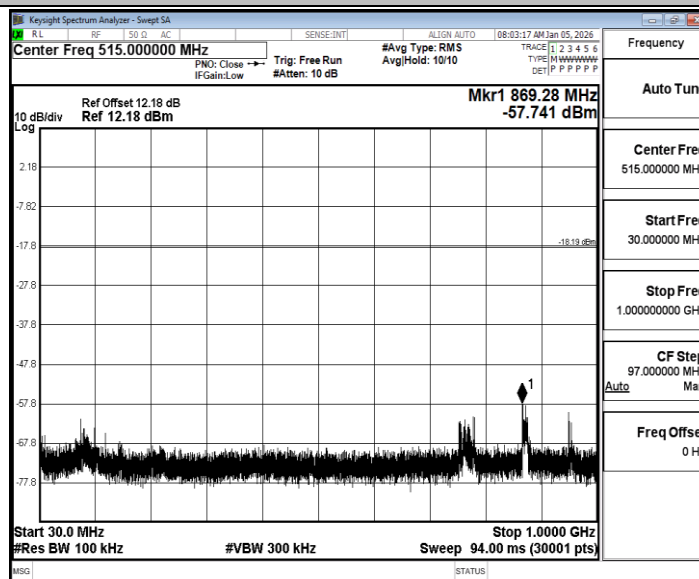
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-57.74	≤-18.19	PASS
			1000~26500	1.81	-55.38	≤-18.19	PASS
		2441	Reference	3.10	3.10	---	PASS
			30~1000	3.10	-57.36	≤-16.9	PASS
			1000~26500	3.10	-55.12	≤-16.9	PASS
		2480	Reference	1.69	1.69	---	PASS
			30~1000	1.69	-58.47	≤-18.31	PASS
			1000~26500	1.69	-55.13	≤-18.31	PASS
2DH5	Ant	2402	Reference	1.67	1.67	---	PASS
			30~1000	1.67	-58.36	≤-18.33	PASS
			1000~26500	1.67	-55.19	≤-18.33	PASS
		2441	Reference	2.82	2.82	---	PASS
			30~1000	2.82	-57.55	≤-17.18	PASS
			1000~26500	2.82	-55.11	≤-17.18	PASS
		2480	Reference	1.54	1.54	---	PASS
			30~1000	1.54	-60.25	≤-18.46	PASS
			1000~26500	1.54	-55.52	≤-18.46	PASS
3DH5	Ant	2402	Reference	1.76	1.76	---	PASS
			30~1000	1.76	-59.2	≤-18.24	PASS
			1000~26500	1.76	-55.45	≤-18.24	PASS
		2441	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-57.27	≤-17.06	PASS
			1000~26500	2.94	-49.81	≤-17.06	PASS
		2480	Reference	1.67	1.67	---	PASS
			30~1000	1.67	-59.6	≤-18.33	PASS
			1000~26500	1.67	-55.11	≤-18.33	PASS

Test Graphs

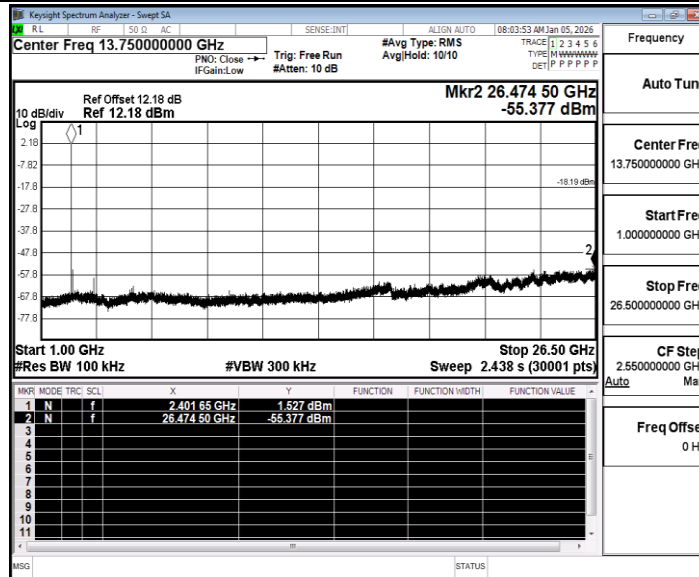
DH5_Ant_2402_0~Reference



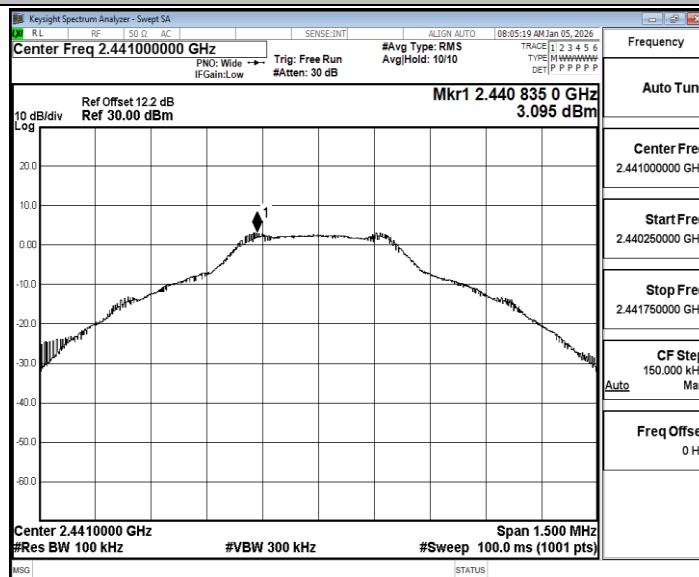
DH5_Ant_2402_30~1000



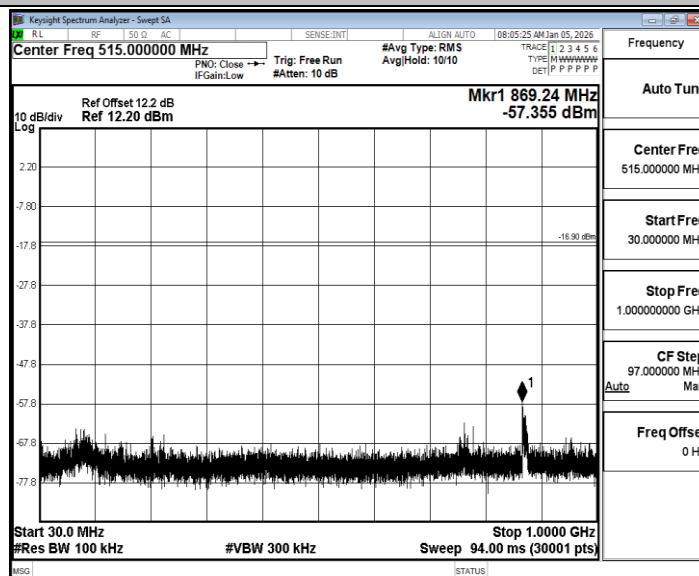
DH5_Ant_2402_1000~26500

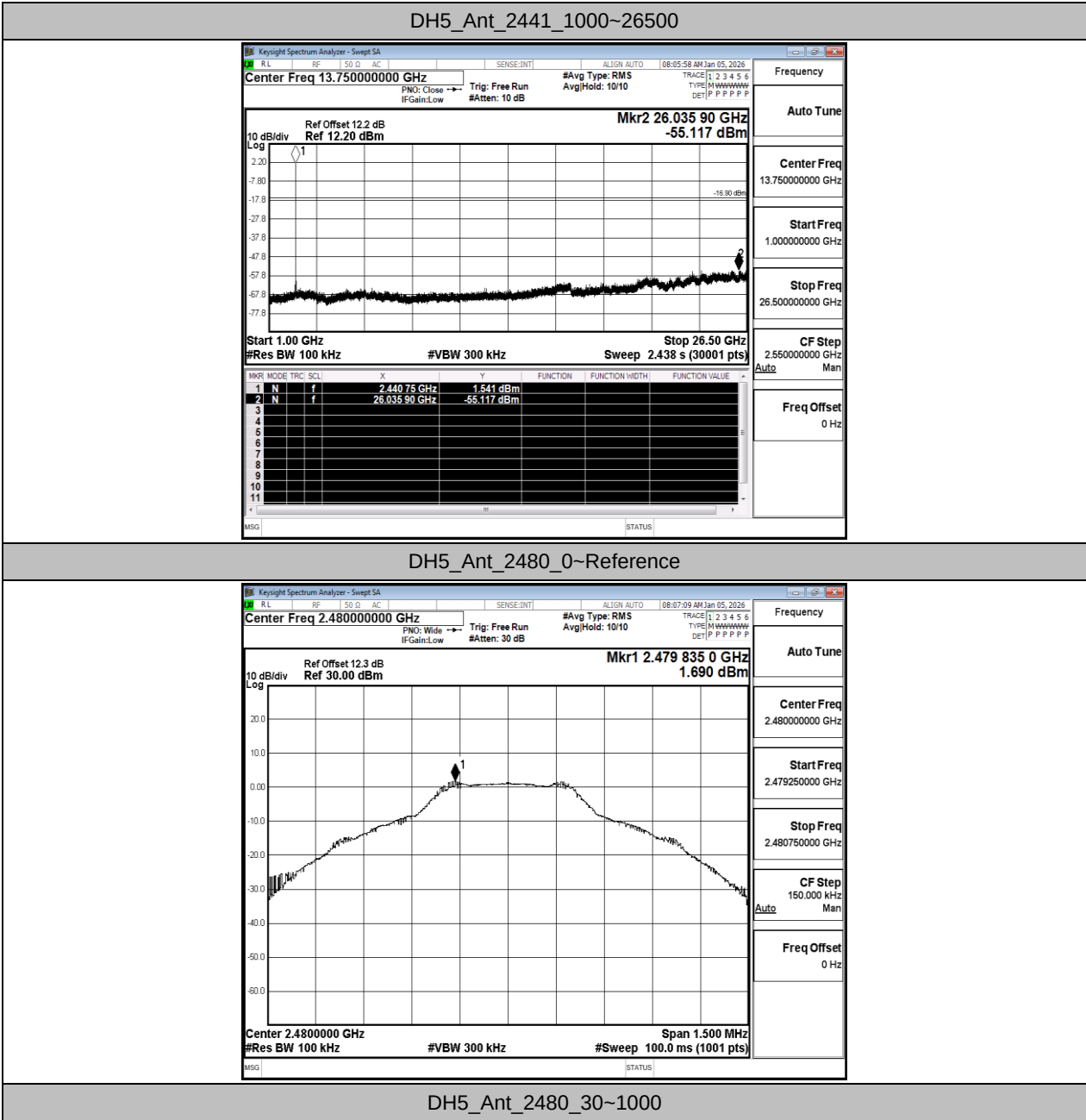


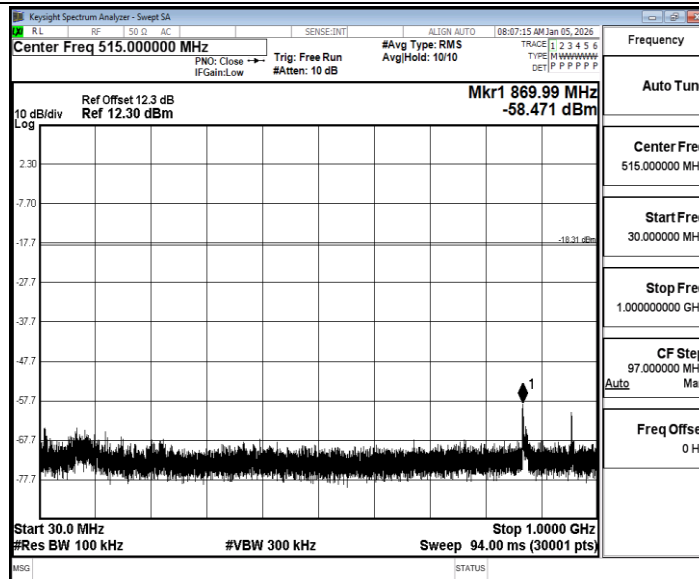
DH5_Ant_2441_0-Reference



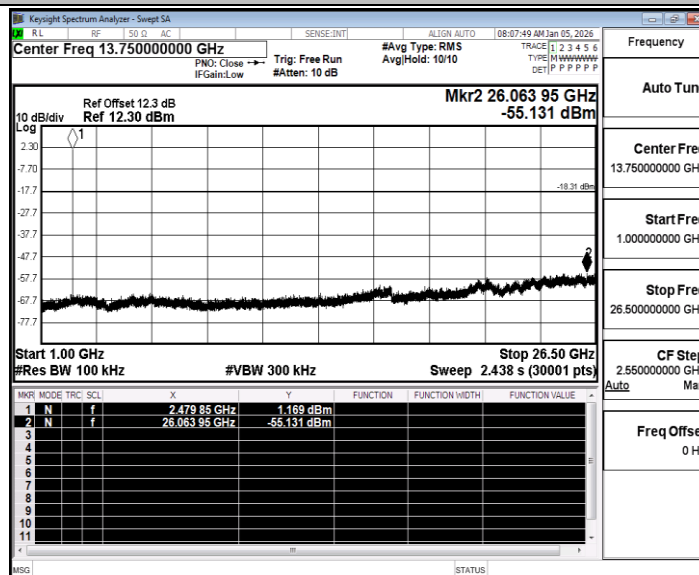
DH5_Ant_2441_30~1000



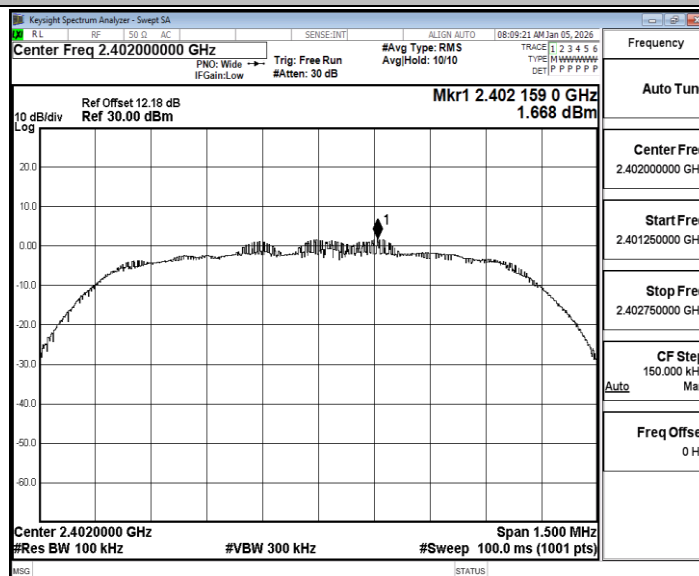


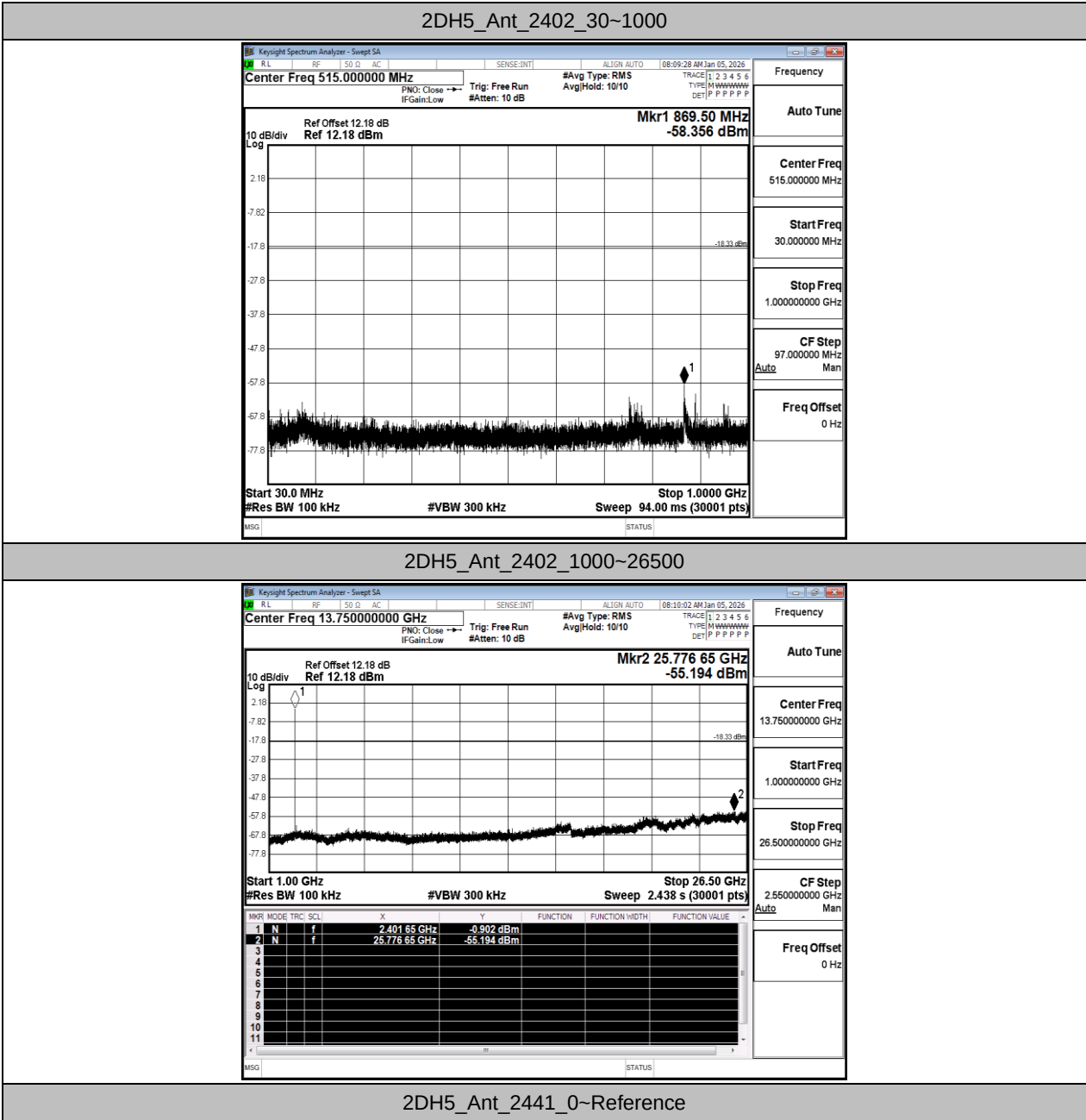


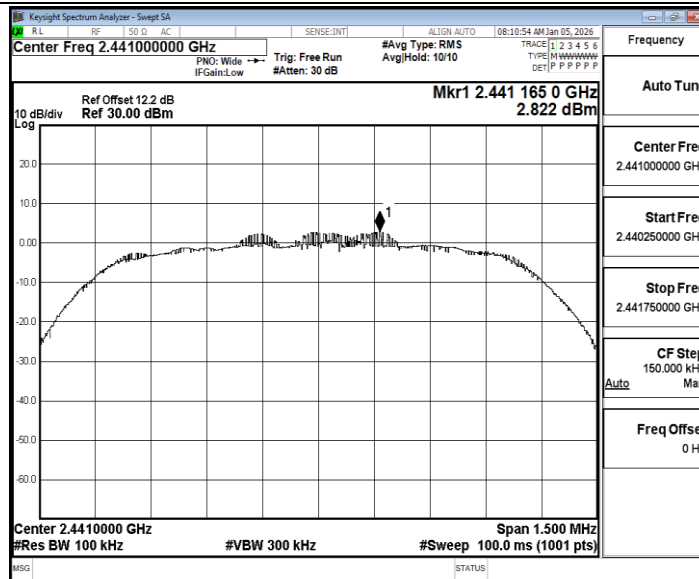
DH5_Ant_2480_1000~26500



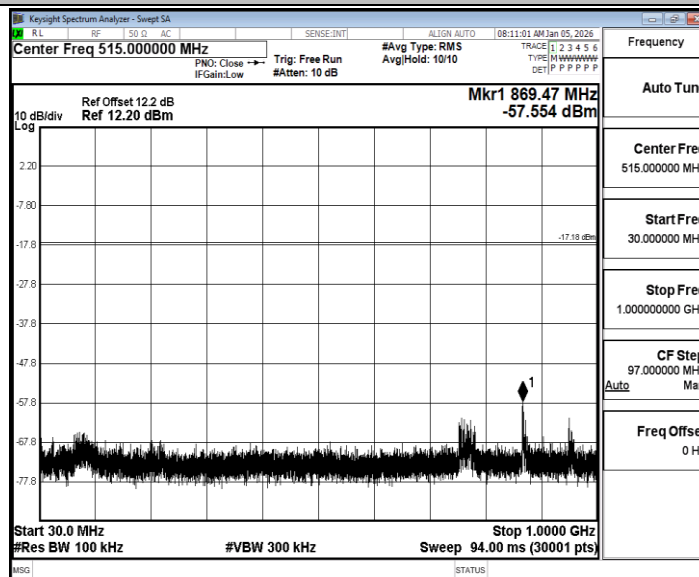
2DH5_Ant_2402_0~Reference



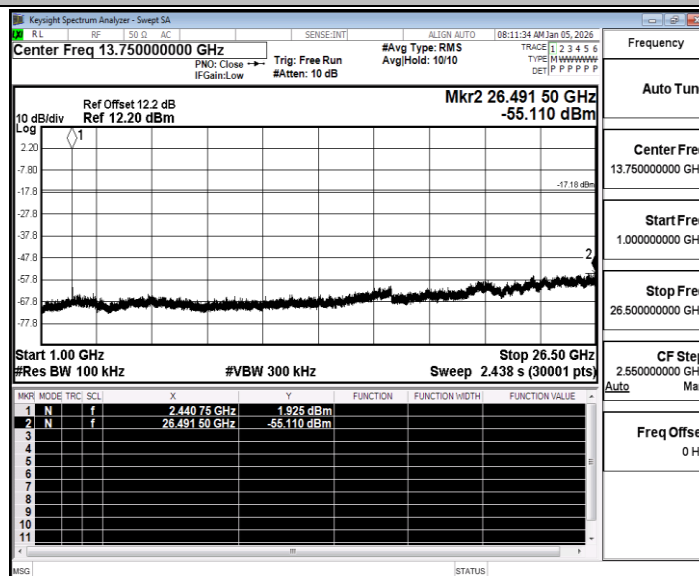




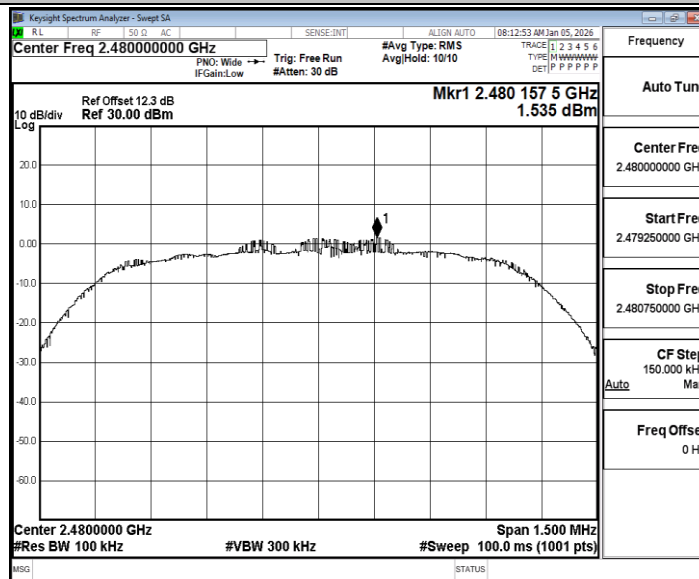
2DH5_Ant_2441_30~1000



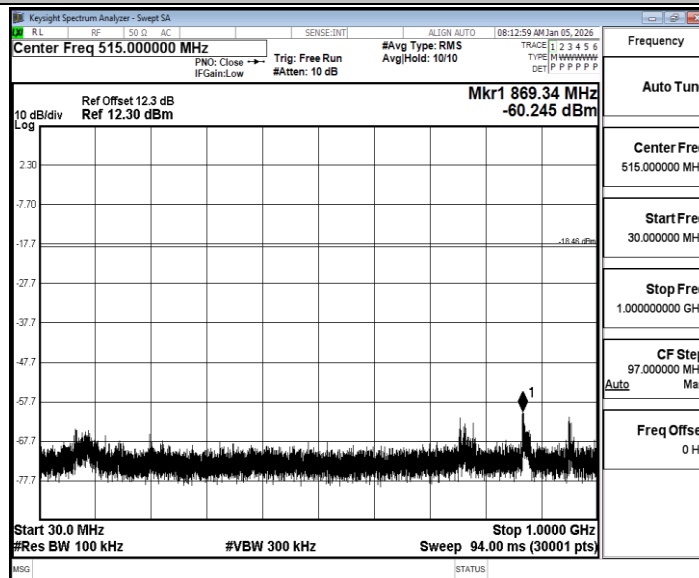
2DH5_Ant_2441_1000~26500



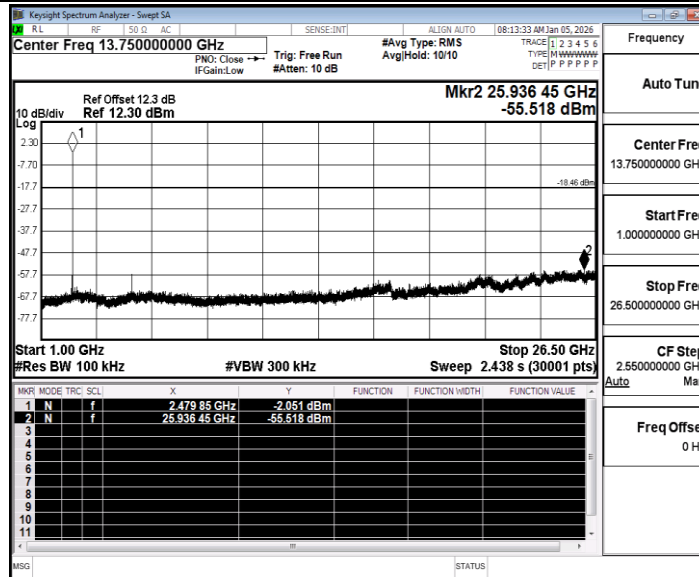
2DH5_Ant_2480_0~Reference



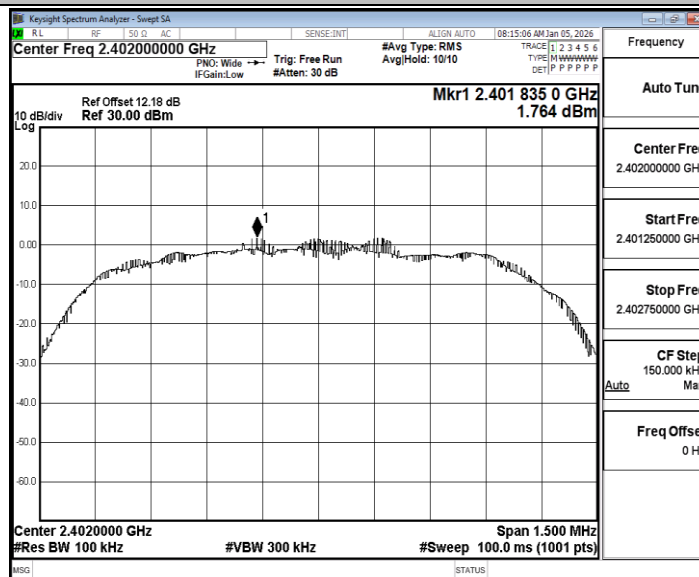
2DH5_Ant_2480_30~1000



2DH5_Ant_2480_1000~26500



3DH5_Ant_2402_0~Reference



3DH5_Ant_2402_30~1000

