

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: GNSS Receiver

Test Model: Xbase

Environmental Conditions

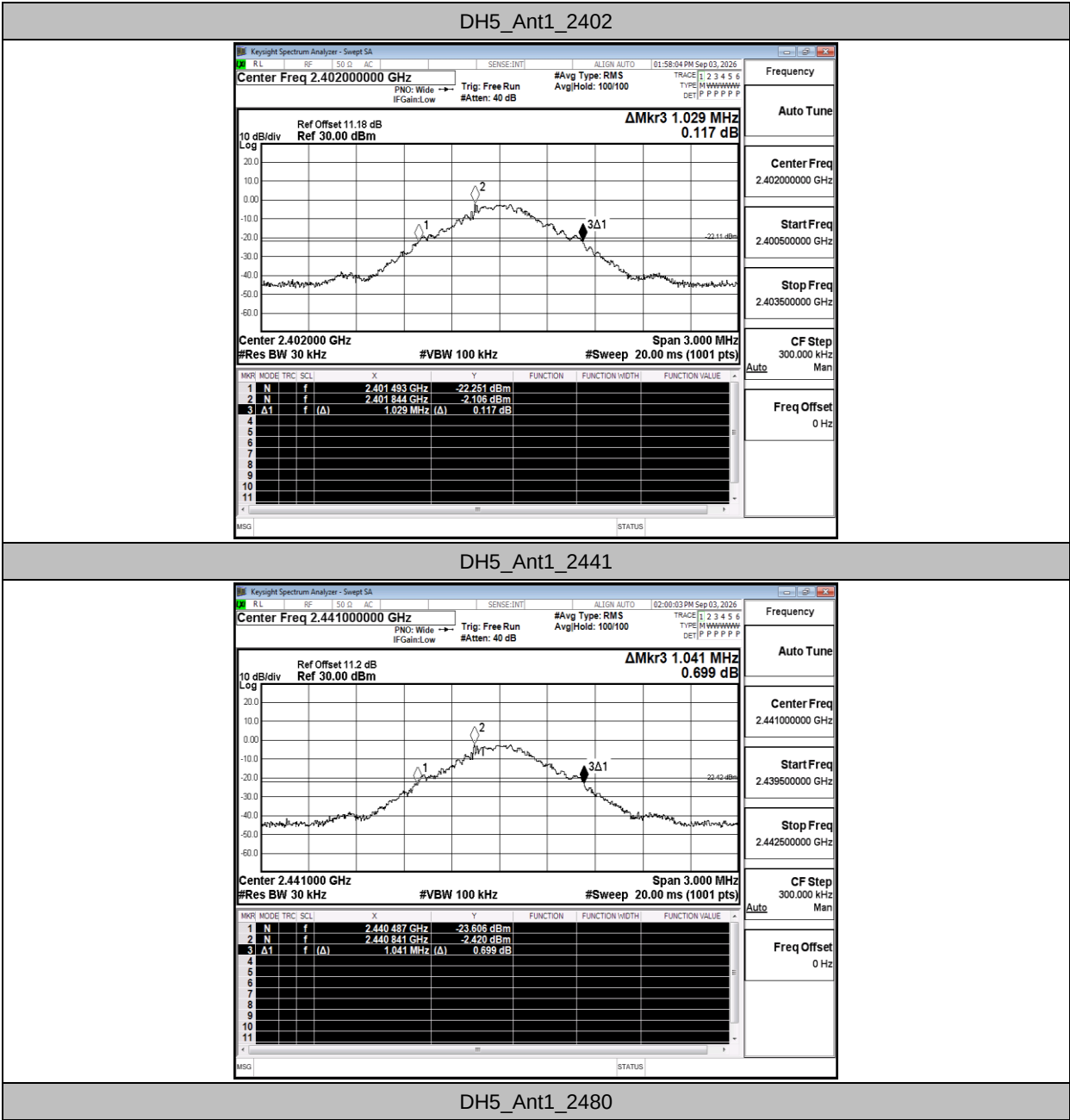
Temperature:	24.3°C
Relative Humidity:	56.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

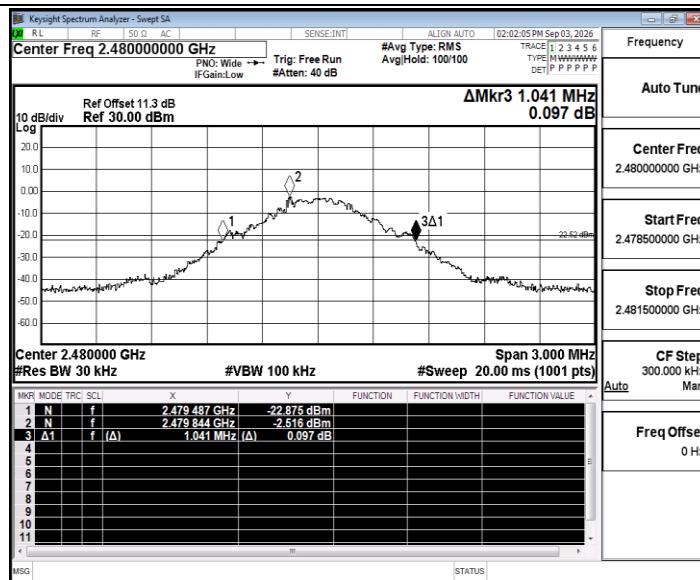
A.1-20dB Bandwidth

Test Result

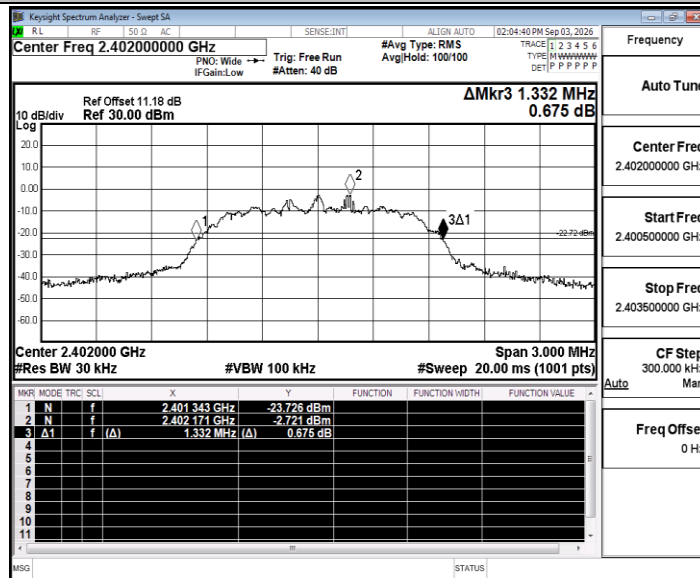
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.029	2401.493	2402.522	---	---
		2441	1.041	2440.487	2441.528	---	---
		2480	1.041	2479.487	2480.528	---	---
2DH5	Ant1	2402	1.332	2401.343	2402.675	---	---
		2441	1.329	2440.352	2441.681	---	---
		2480	1.338	2479.340	2480.678	---	---
3DH5	Ant1	2402	1.296	2401.364	2402.660	---	---
		2441	1.290	2440.364	2441.654	---	---
		2480	1.281	2479.361	2480.642	---	---

Test Graphs

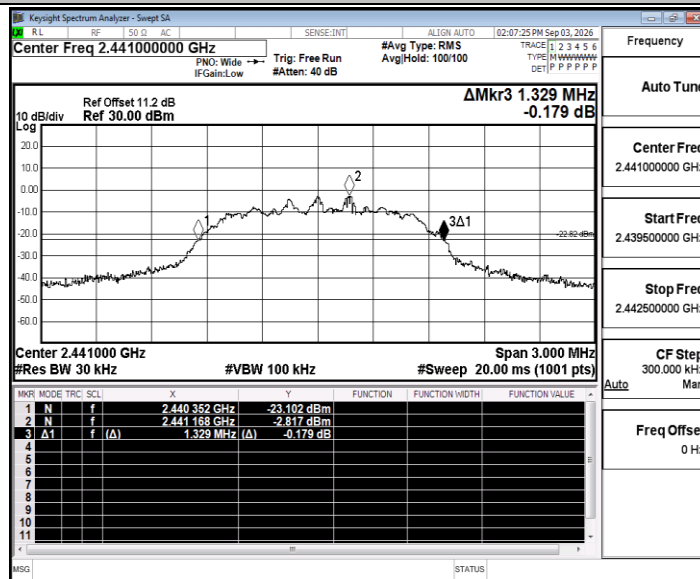




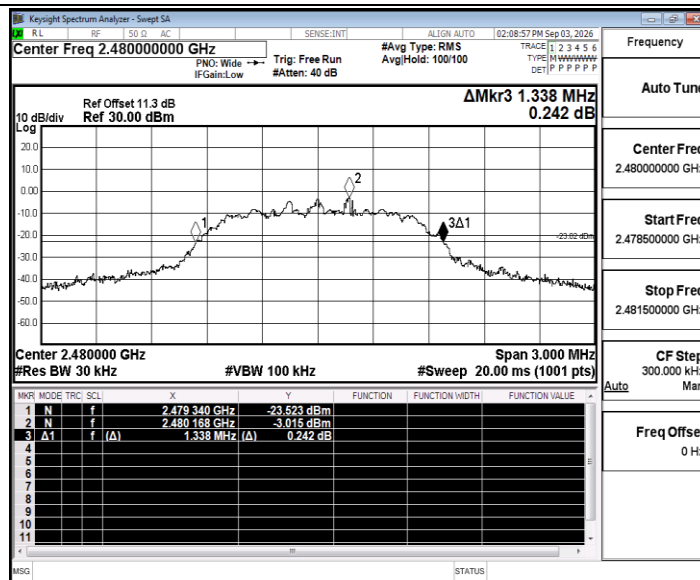
2DH5_Ant1_2402



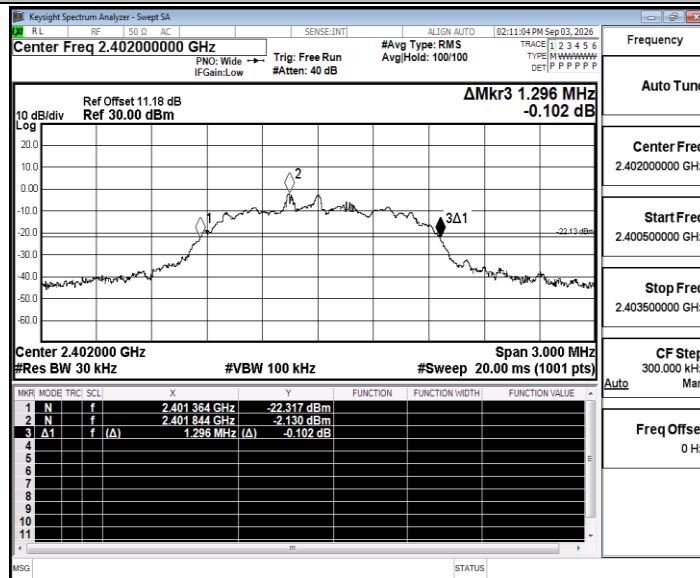
2DH5_Ant1_2441



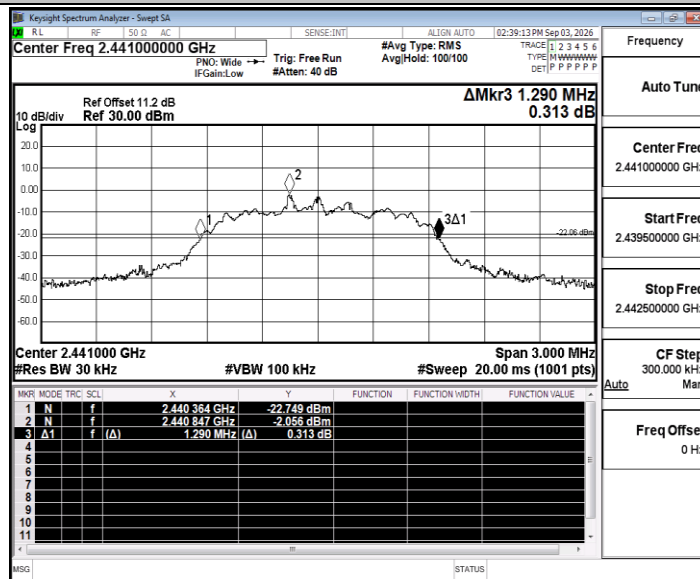
2DH5_Ant1_2480



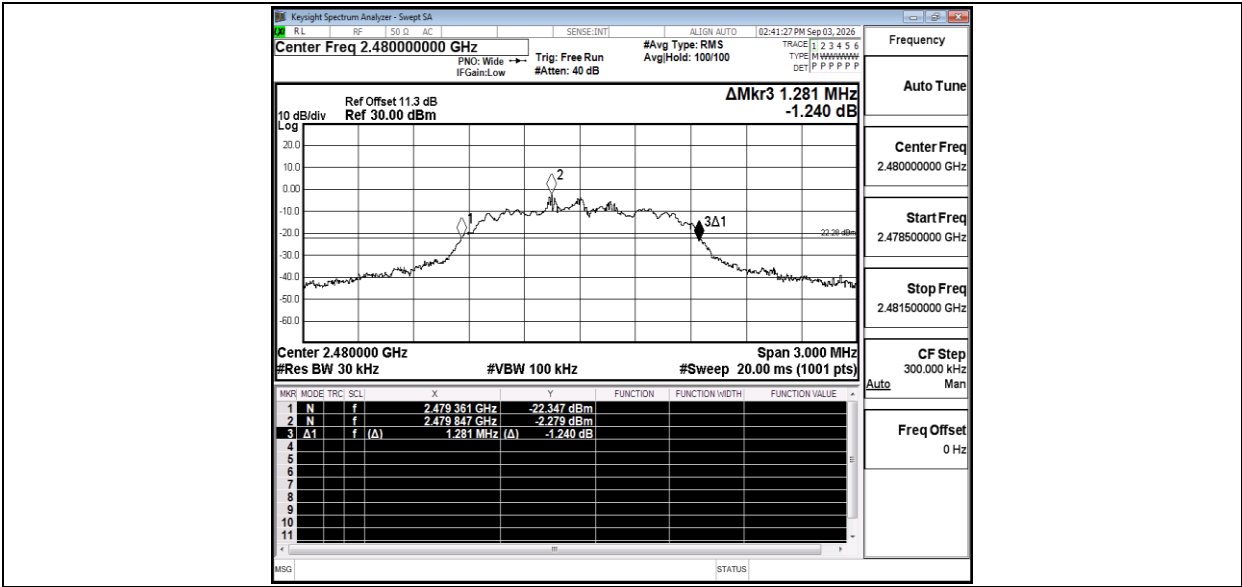
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

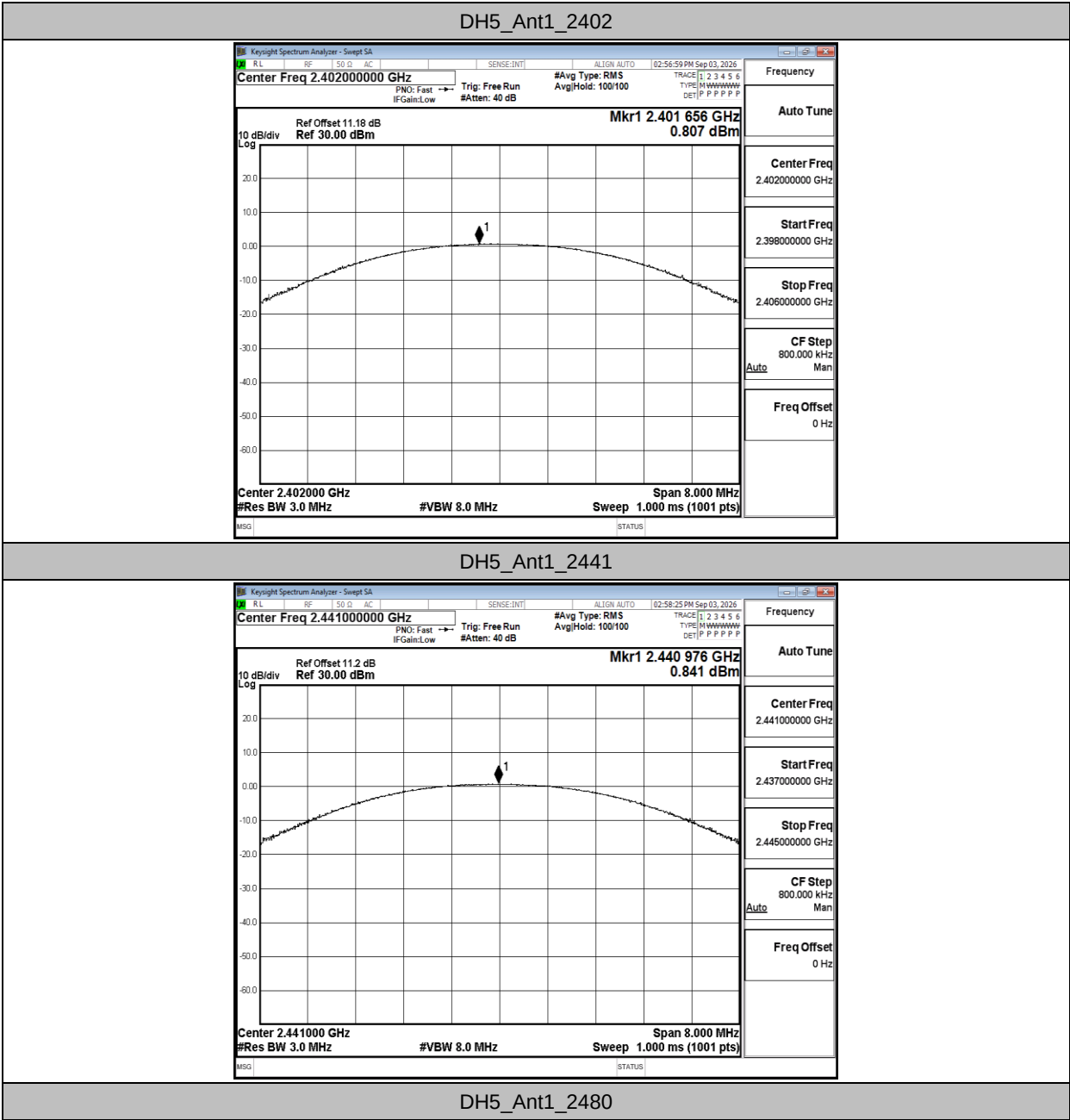


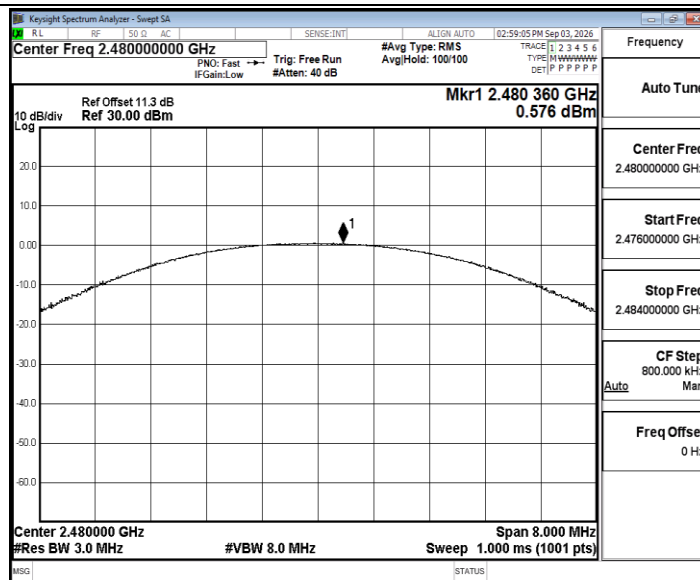
A.2 Maximum Peak Conducted Output Power

Test Result Peak

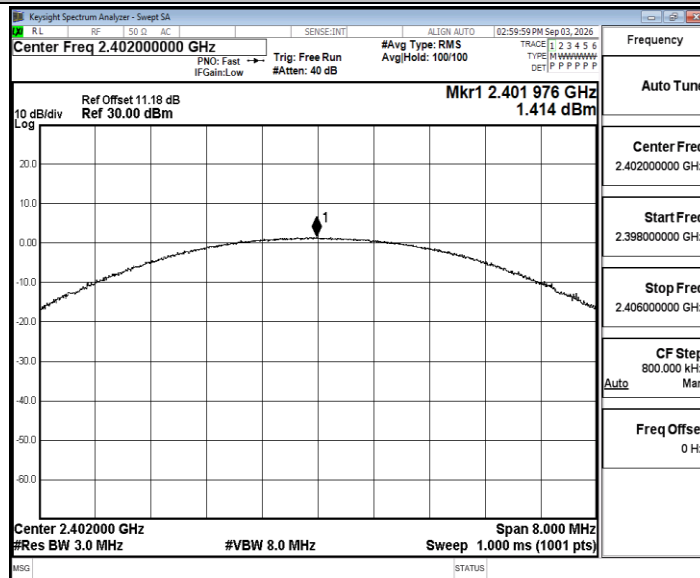
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.81	≤30	PASS
		2441	0.84	≤30	PASS
		2480	0.58	≤30	PASS
2DH5	Ant1	2402	1.41	≤20.97	PASS
		2441	1.45	≤20.97	PASS
		2480	1.29	≤20.97	PASS
3DH5	Ant1	2402	1.71	≤20.97	PASS
		2441	1.78	≤20.97	PASS
		2480	1.56	≤20.97	PASS

Test Graphs

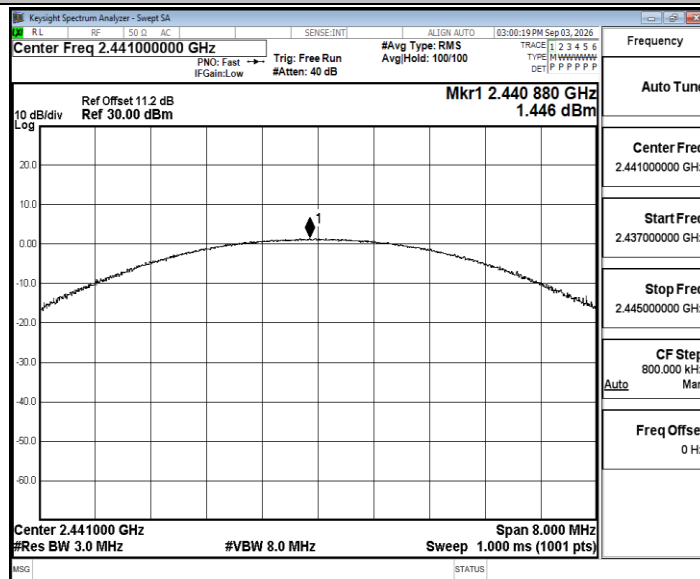




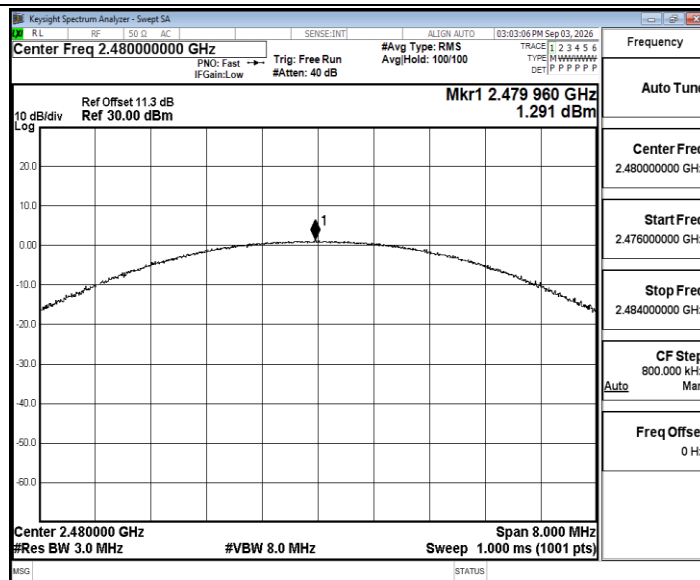
2DH5_Ant1_2402



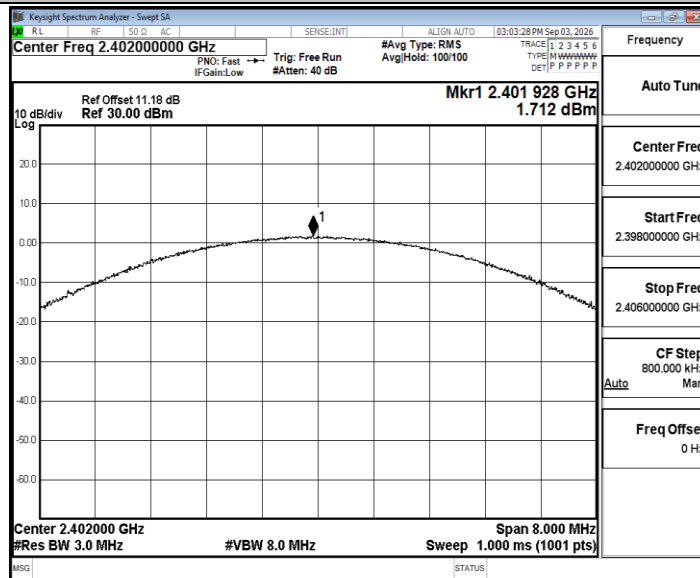
2DH5_Ant1_2441



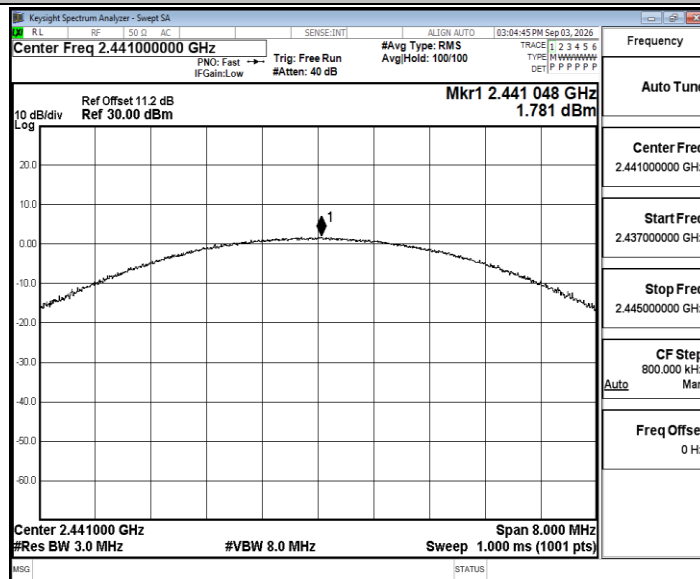
2DH5_Ant1_2480



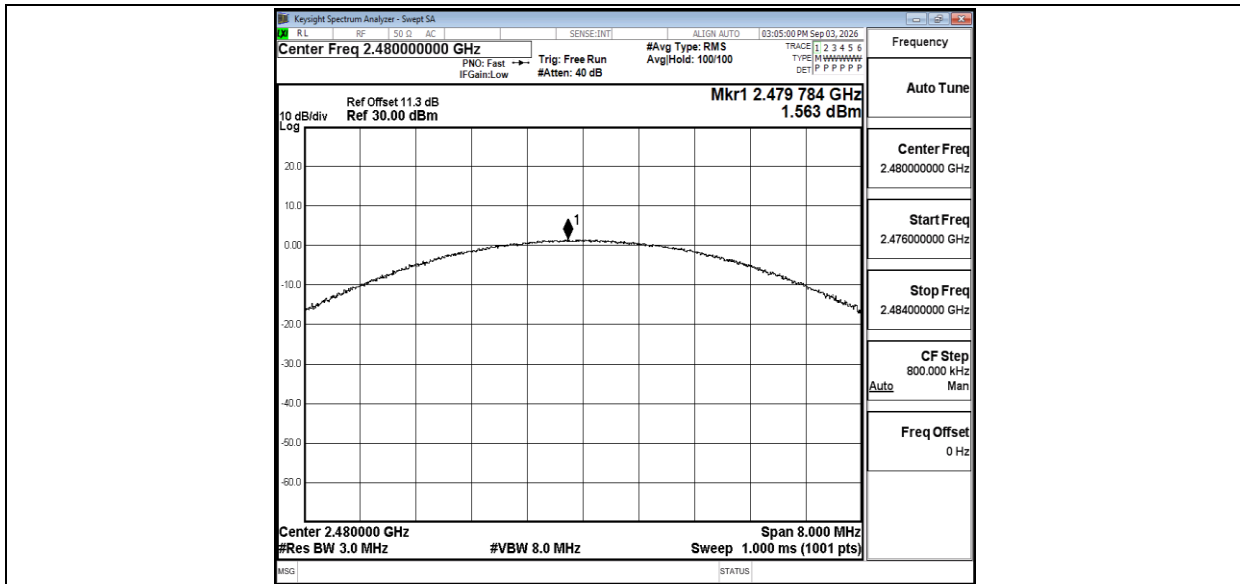
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



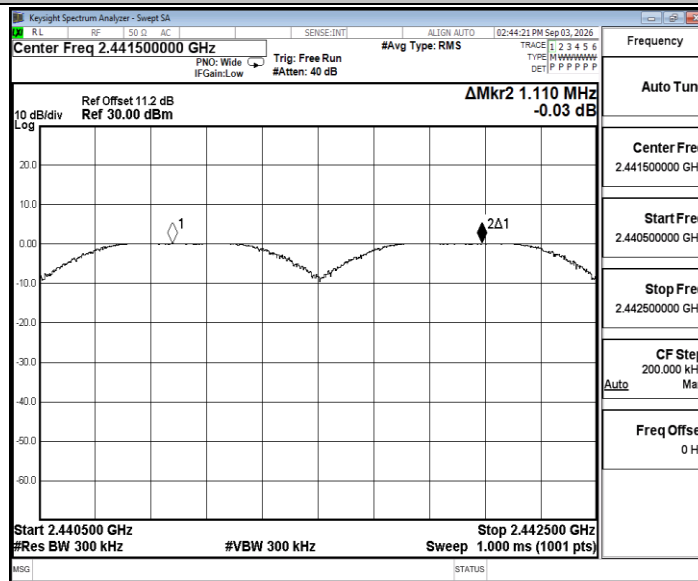
A.3 Carrier Frequencies Separation

Test Result

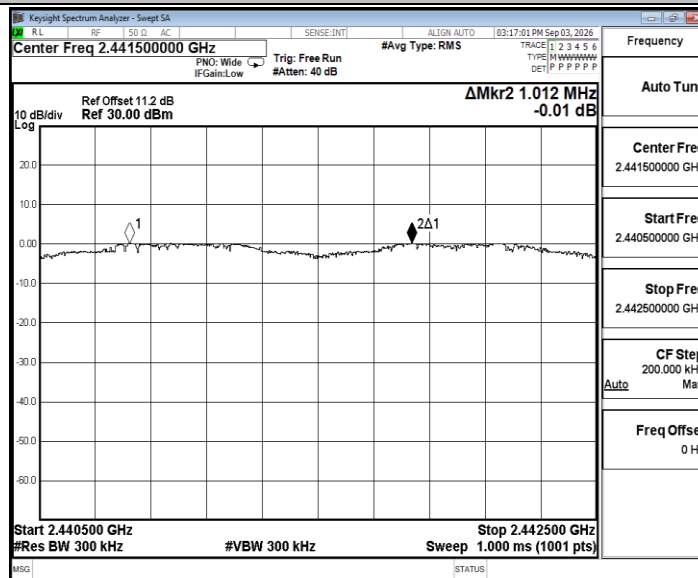
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.11	≥ 0.694	PASS
2DH5	Ant1	Hop	1.012	≥ 0.892	PASS
3DH5	Ant1	Hop	0.972	≥ 0.864	PASS

Test Graphs

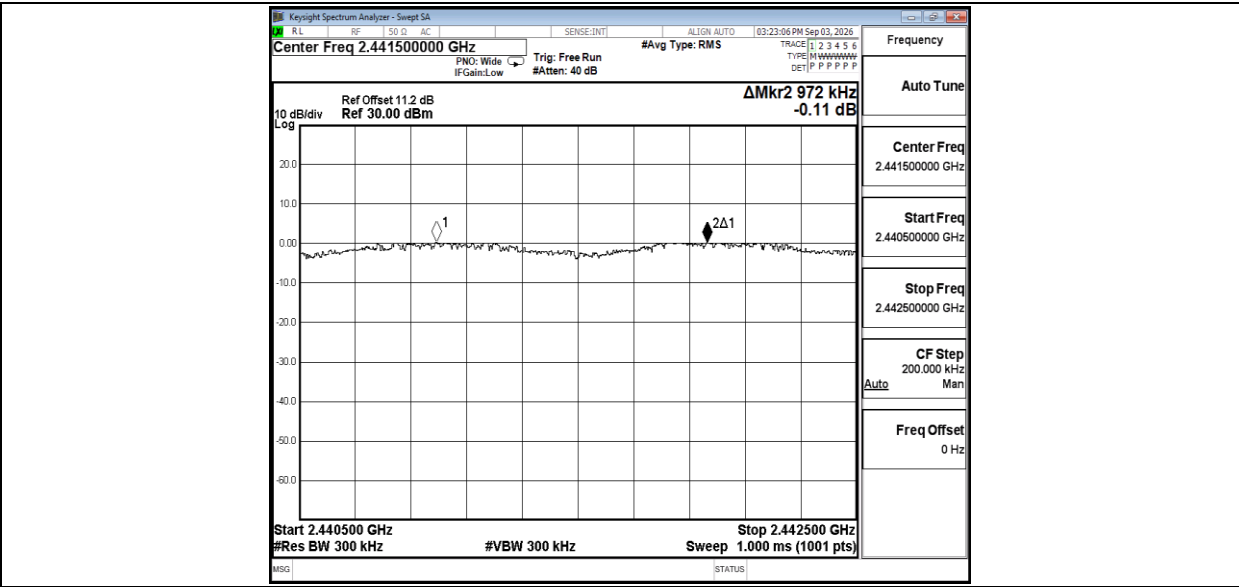
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

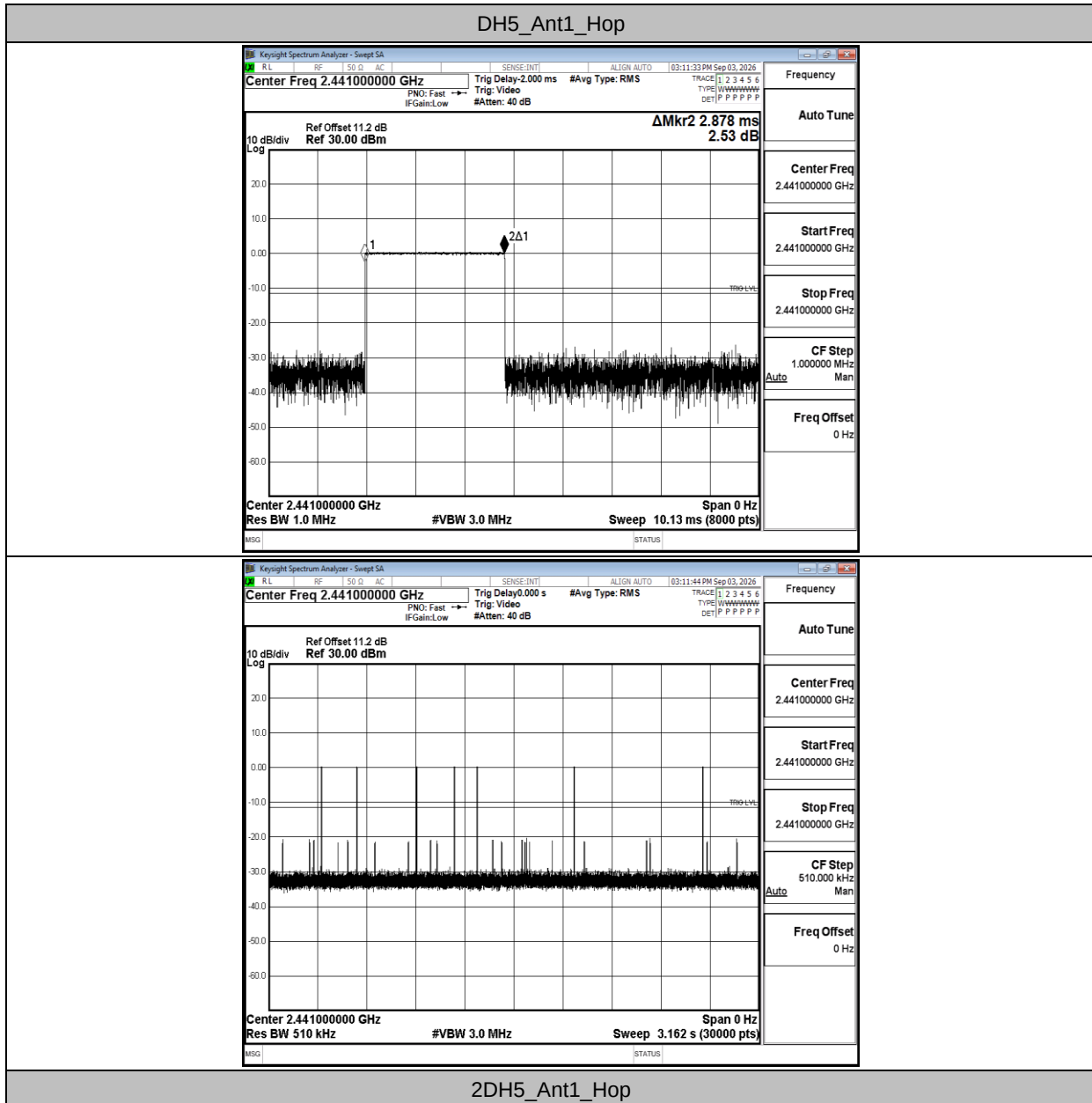


A.4 Dwell Time

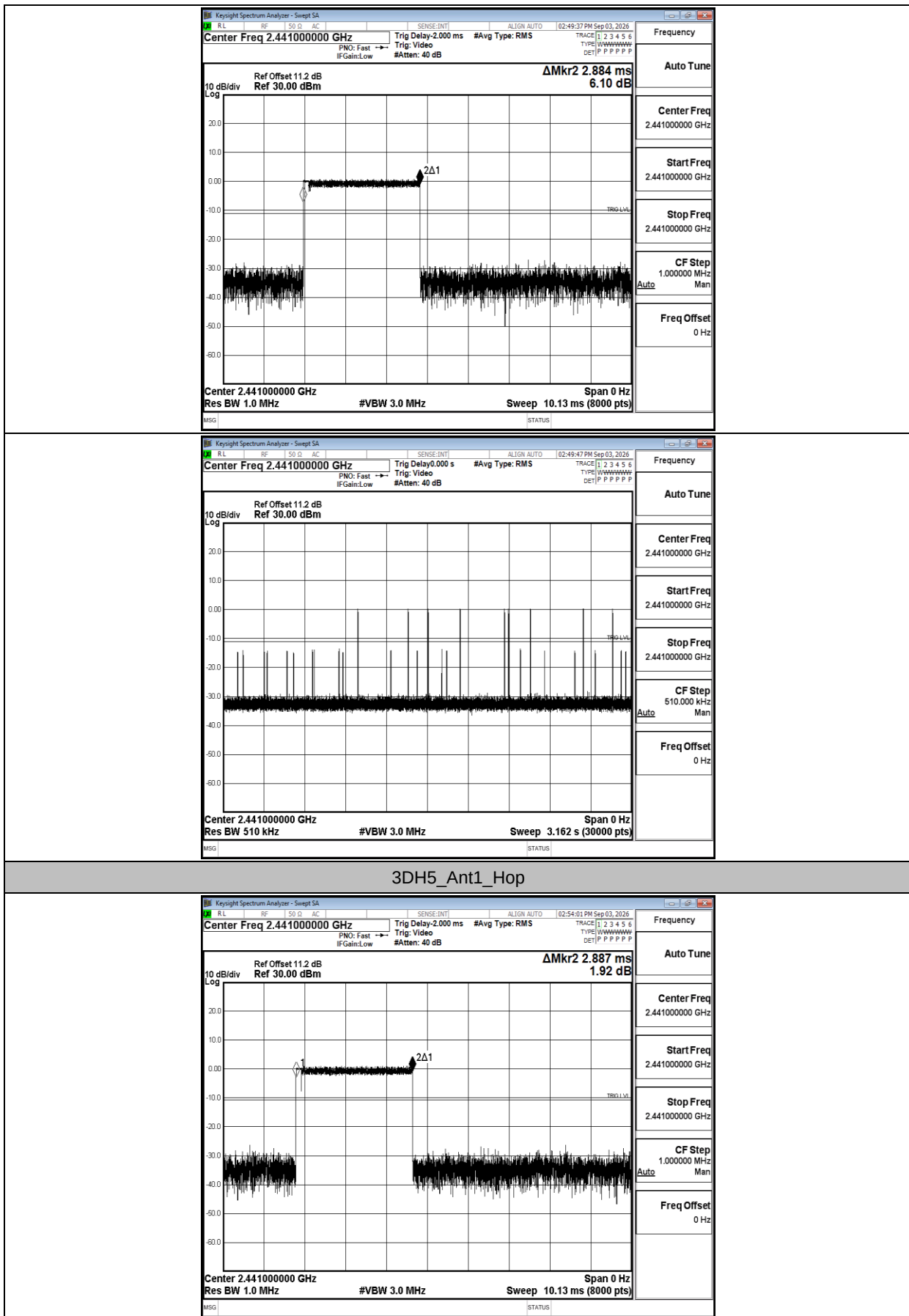
Test Result

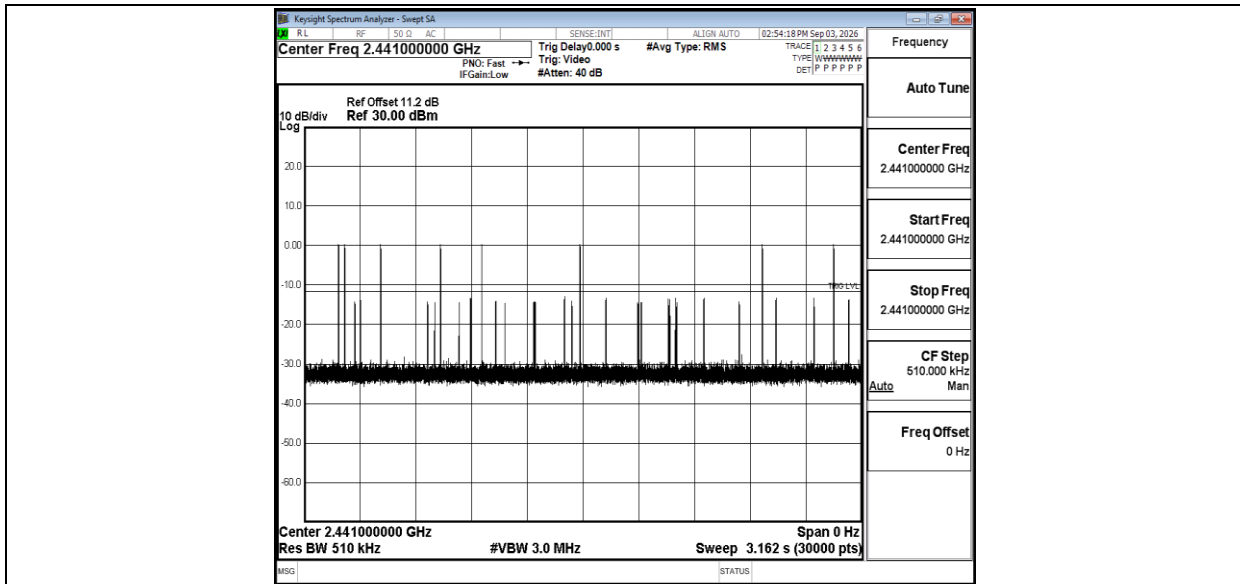
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.878	80	0.23	≤0.4	PASS
2DH5	Ant1	Hop	2.884	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.887	90	0.26	≤0.4	PASS

Test Graphs



2DH5_Ant1_Hop



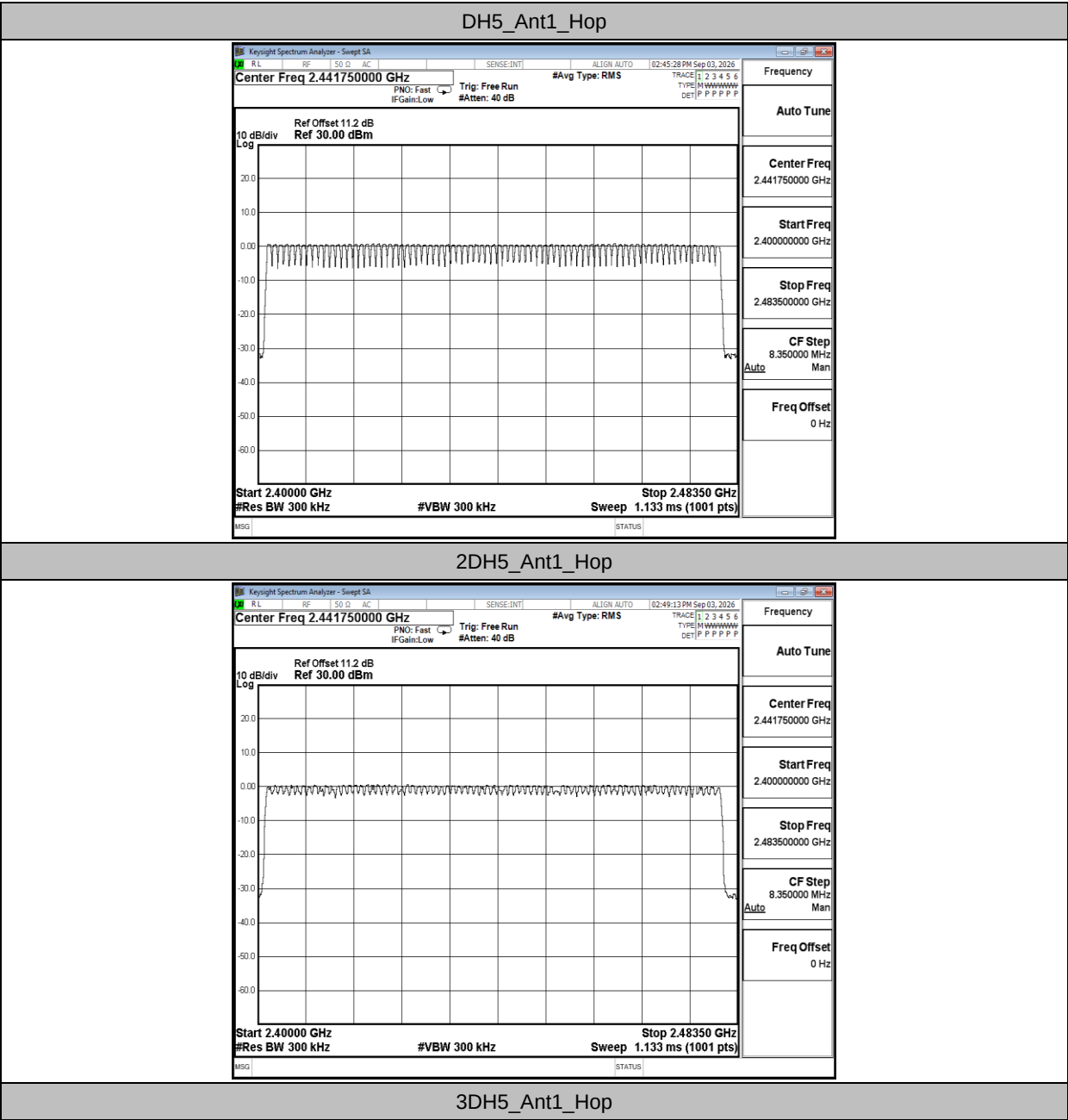


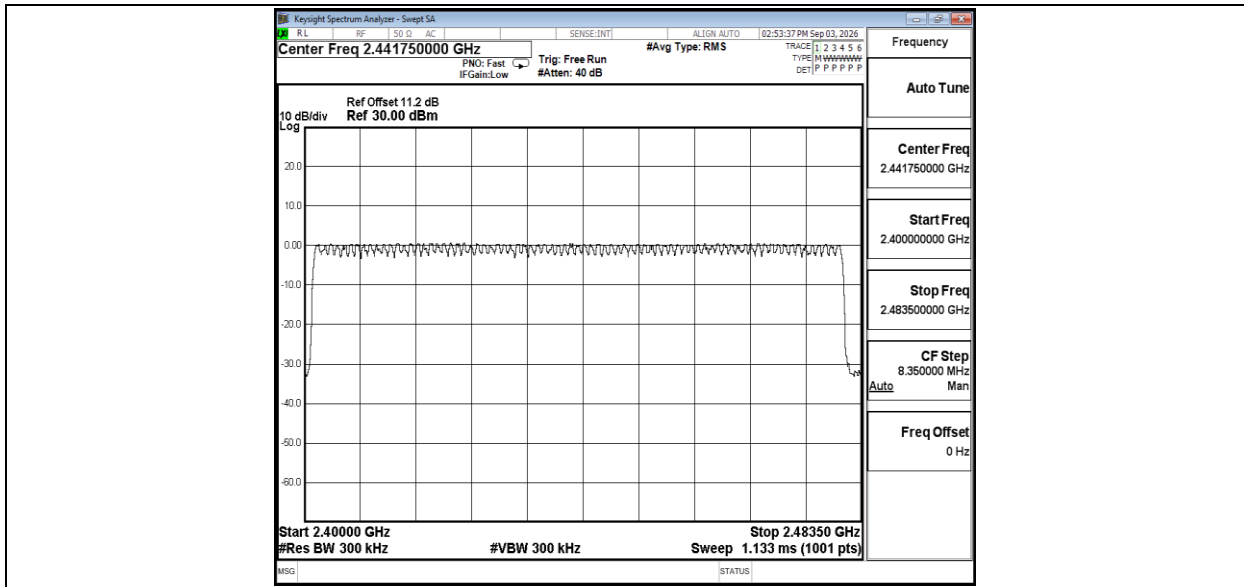
A.5 Number of Hopping Channel

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





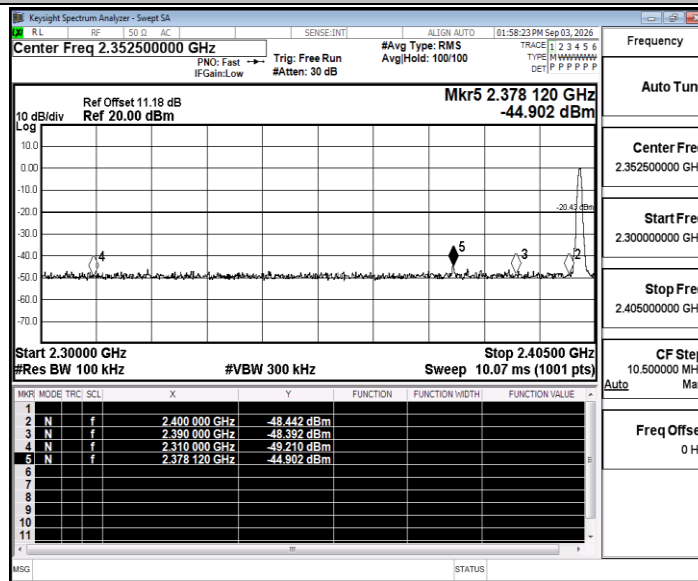
A.6 Band Edge

Test Result

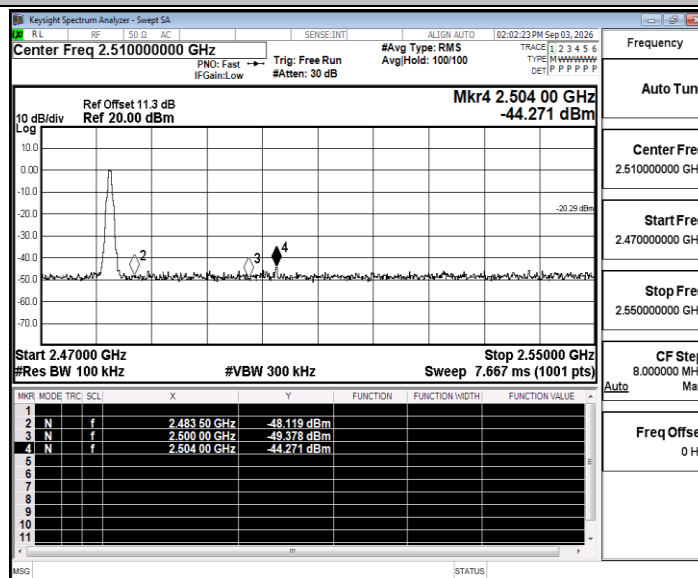
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.43	-44.9	≤ -20.43	PASS
		High	2480	-0.29	-44.27	≤ -20.29	PASS
		Low	Hop_2402	-3.18	-44.19	≤ -23.18	PASS
		High	Hop_2480	-0.21	-45.62	≤ -20.21	PASS
2DH5	Ant1	Low	2402	-0.32	-45.82	≤ -20.32	PASS
		High	2480	-0.85	-44.73	≤ -20.85	PASS
		Low	Hop_2402	-4.96	-45.98	≤ -24.96	PASS
		High	Hop_2480	-4.10	-45.46	≤ -24.1	PASS
3DH5	Ant1	Low	2402	-2.36	-45.48	≤ -22.36	PASS
		High	2480	-0.83	-45.48	≤ -20.83	PASS
		Low	Hop_2402	-1.04	-45.34	≤ -21.04	PASS
		High	Hop_2480	-1.64	-45.17	≤ -21.64	PASS

Test Graphs

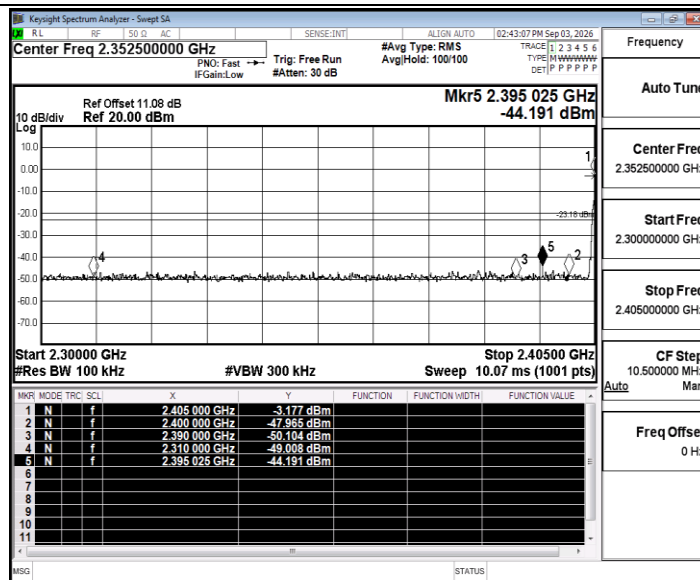
DH5_Ant1_Low_2402



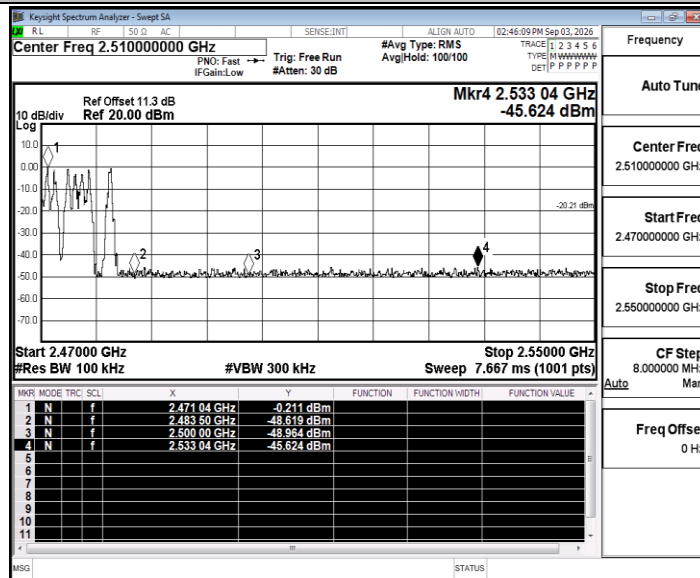
DH5_Ant1_High_2480



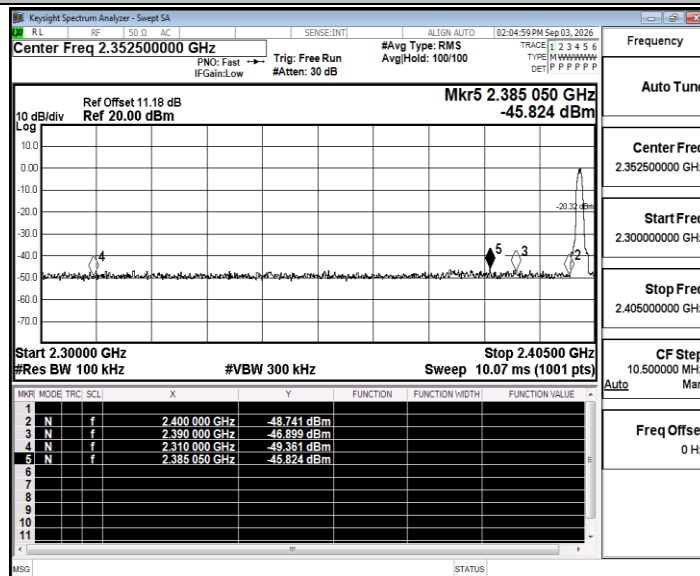
DH5_Ant1_Low_Hop_2402



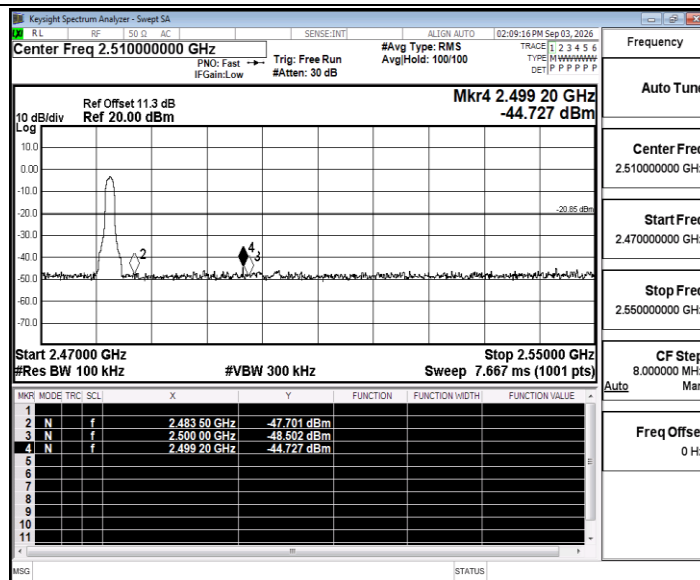
DH5_Ant1_High_Hop_2480



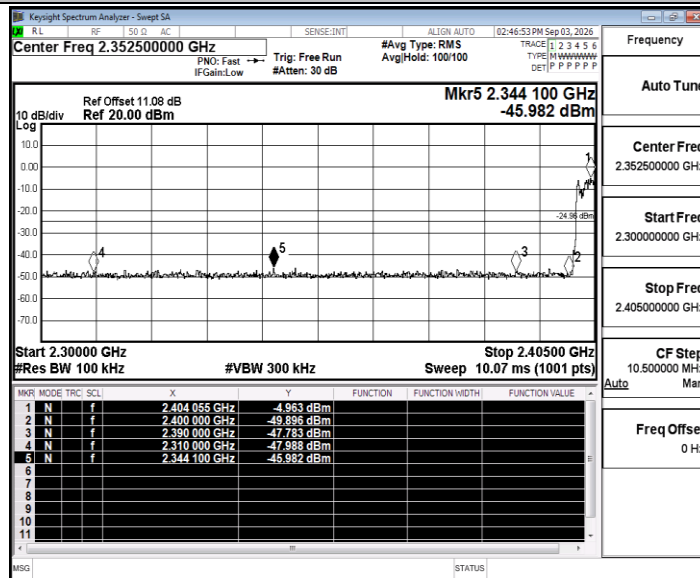
2DH5_Ant1_Low_2402



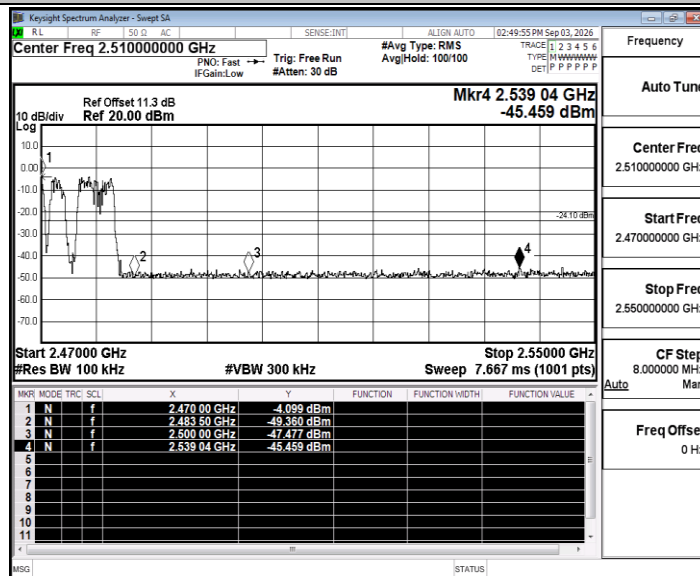
2DH5_Ant1_High_2480



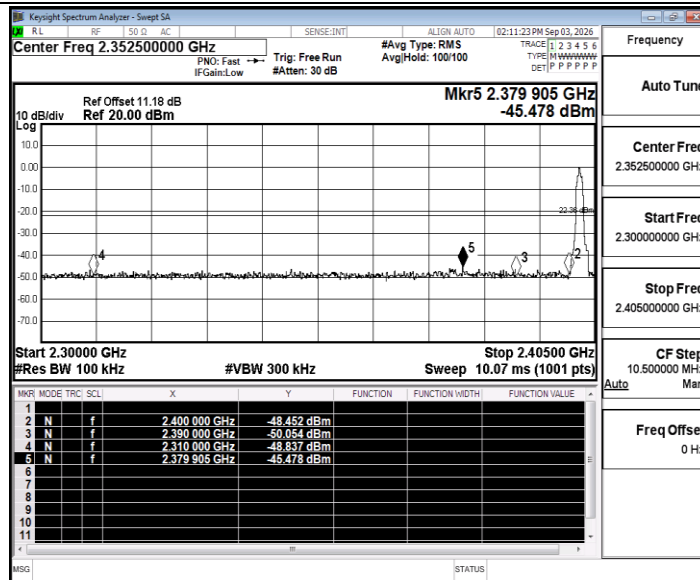
2DH5_Ant1_Low_Hop_2402



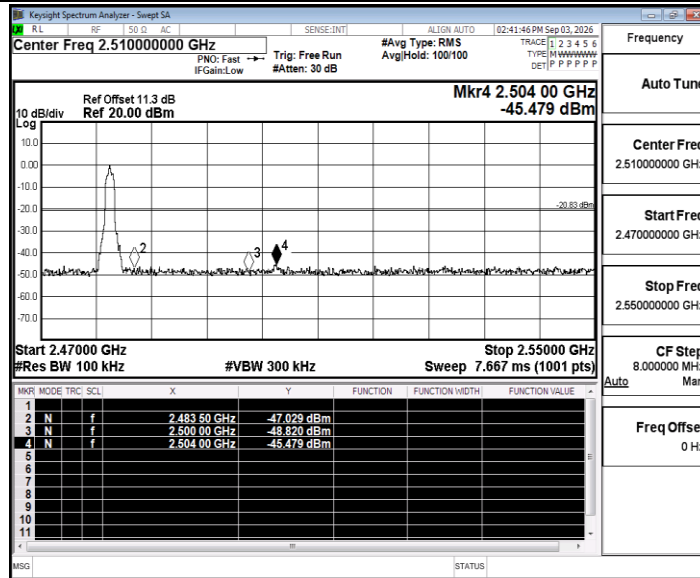
2DH5_Ant1_High_Hop_2480



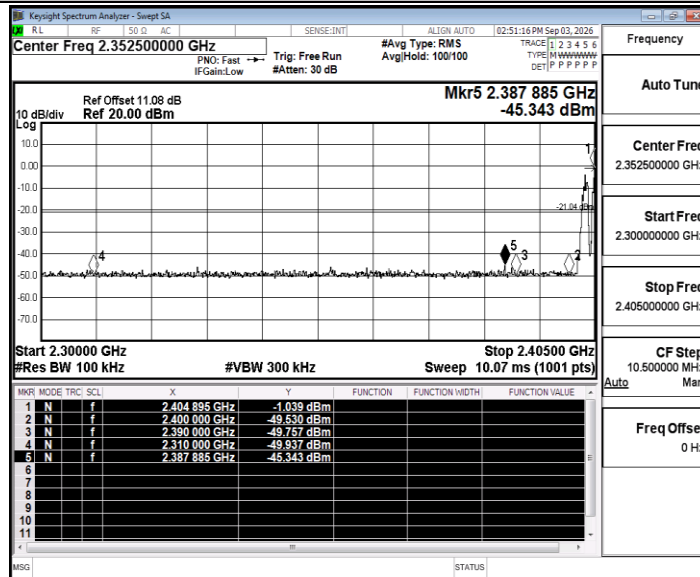
3DH5_Ant1_Low_2402



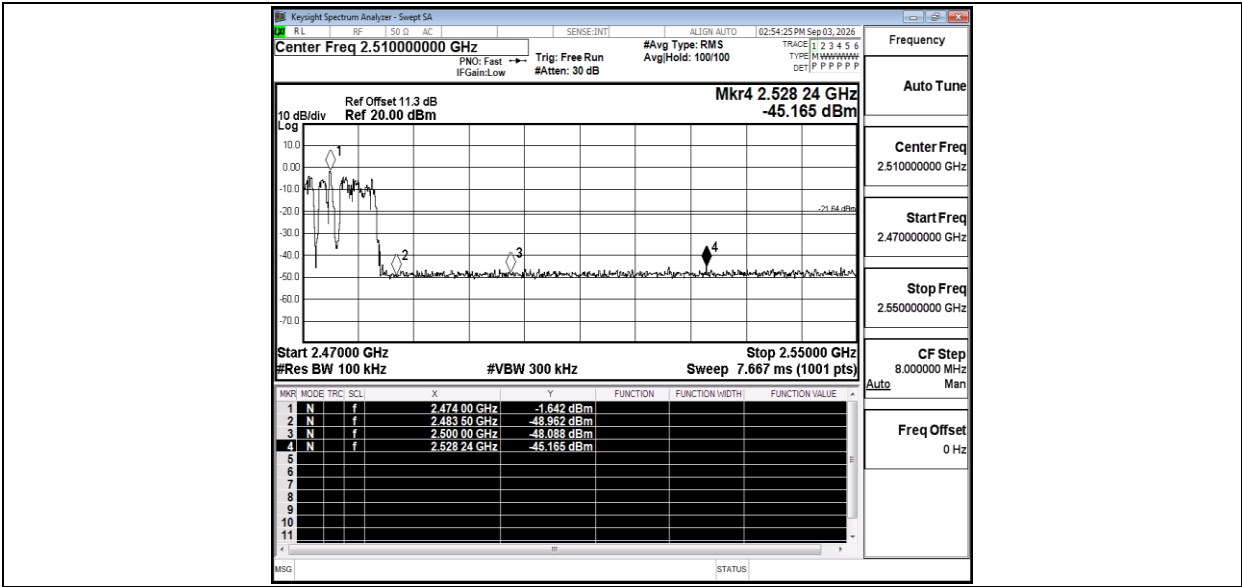
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

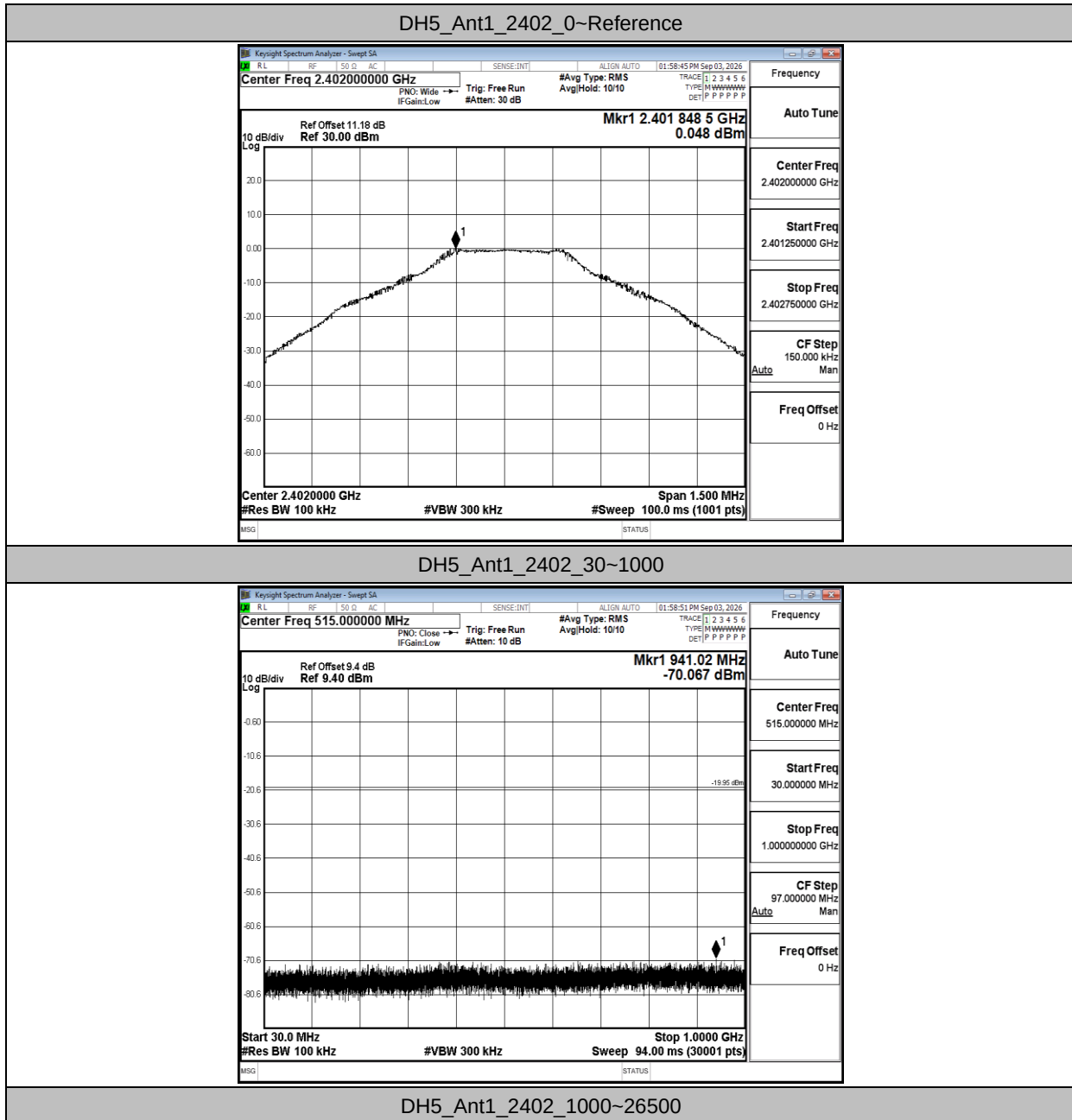


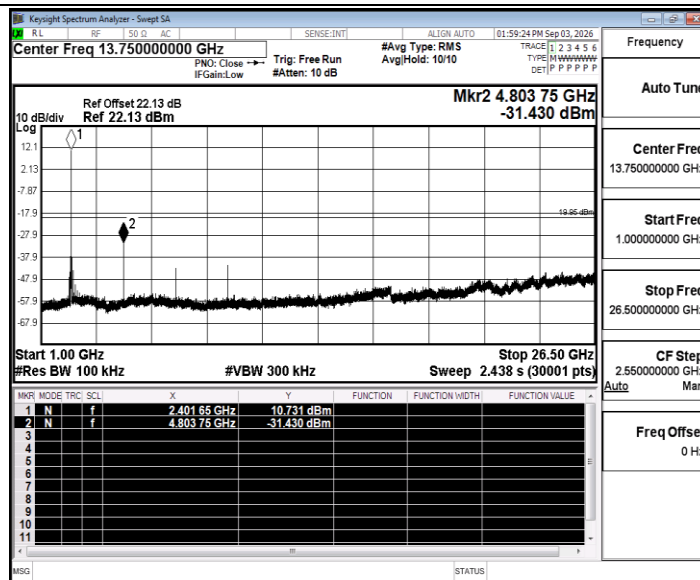
A.7 Conducted RF Spurious Emission

Test Result

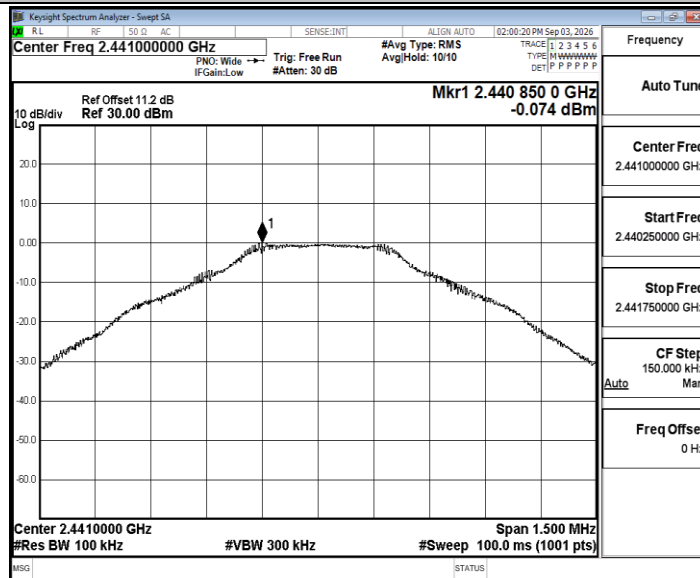
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-70.07	≤-19.95	PASS
			1000~26500	0.05	-31.43	≤-19.95	PASS
		2441	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-70.01	≤-20.07	PASS
			1000~26500	-0.07	-31.83	≤-20.07	PASS
		2480	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-70.1	≤-20.24	PASS
			1000~26500	-0.24	-29.63	≤-20.24	PASS
2DH5	Ant1	2402	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-69.74	≤-19.96	PASS
			1000~26500	0.04	-35.31	≤-19.96	PASS
		2441	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-69.81	≤-20.07	PASS
			1000~26500	-0.07	-35.51	≤-20.07	PASS
		2480	Reference	-0.26	-0.26	---	PASS
			30~1000	-0.26	-69.6	≤-20.26	PASS
			1000~26500	-0.26	-32.48	≤-20.26	PASS
3DH5	Ant1	2402	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-69.56	≤-19.94	PASS
			1000~26500	0.06	-36.24	≤-19.94	PASS
		2441	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-70.13	≤-20.05	PASS
			1000~26500	-0.05	-33.19	≤-20.05	PASS
		2480	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-68.64	≤-20.25	PASS
			1000~26500	-0.25	-33.88	≤-20.25	PASS

Test Graphs

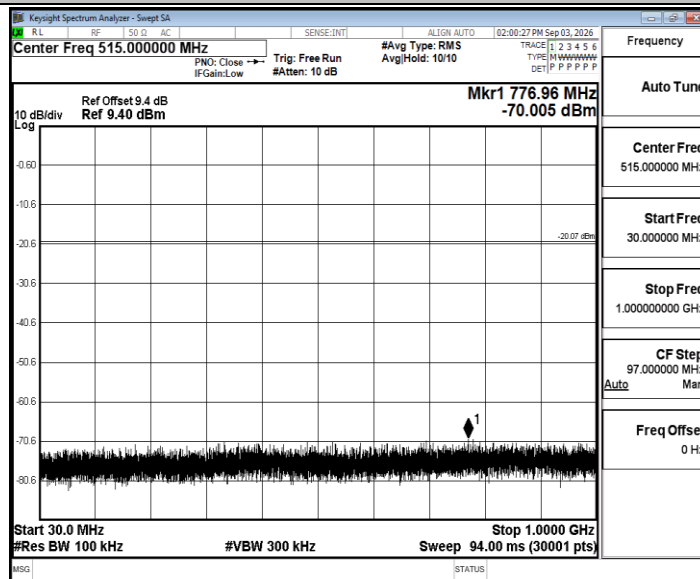




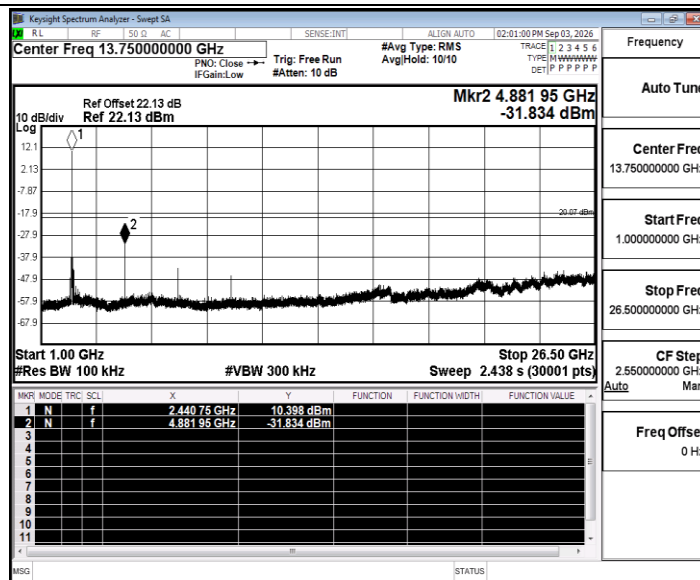
DH5_Ant1_2441_0~Reference



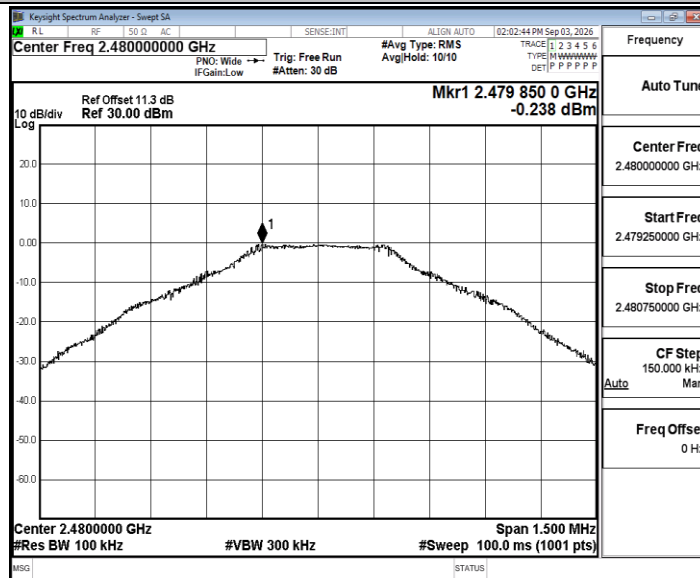
DH5_Ant1_2441_30~1000



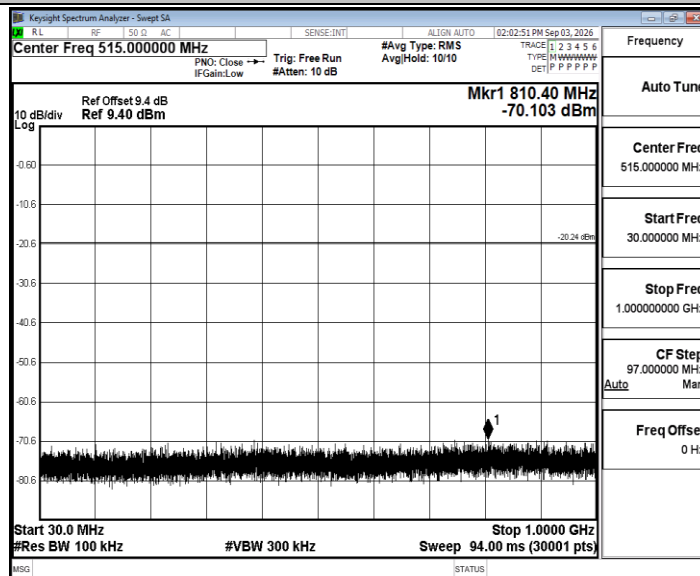
DH5_Ant1_2441_1000~26500



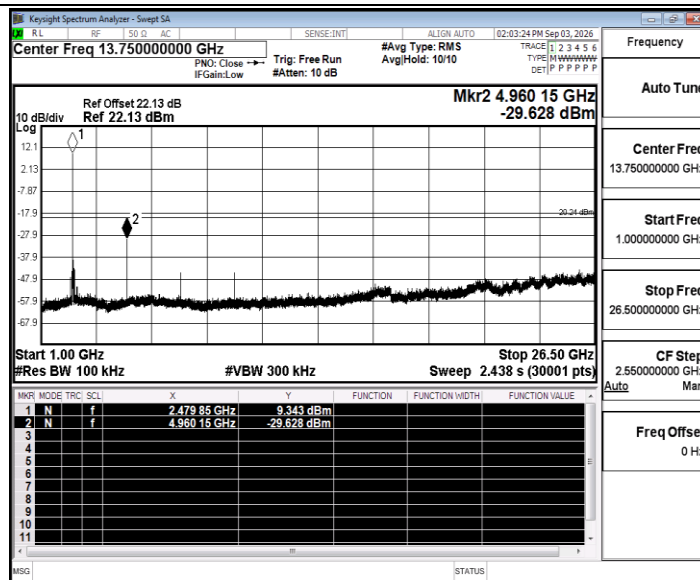
DH5_Ant1_2480_0~Reference



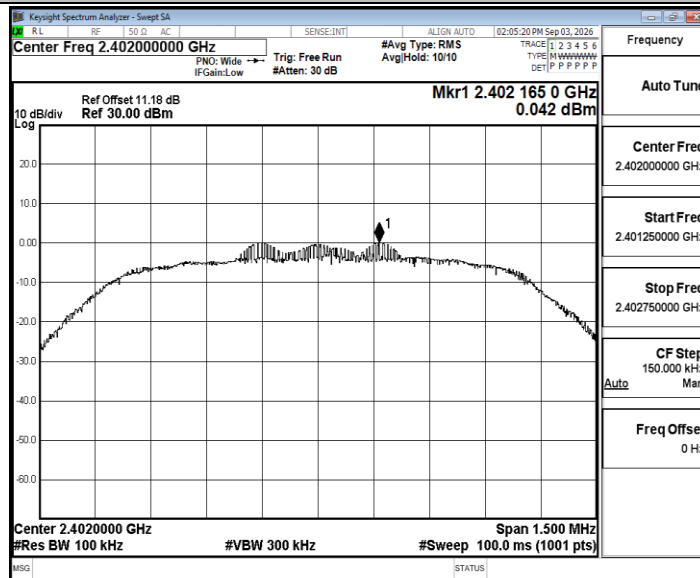
DH5_Ant1_2480_30~1000



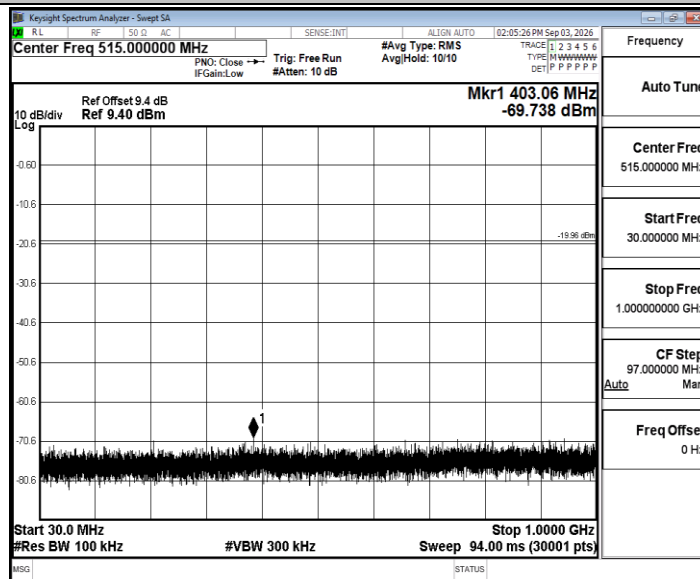
DH5_Ant1_2480_1000~26500



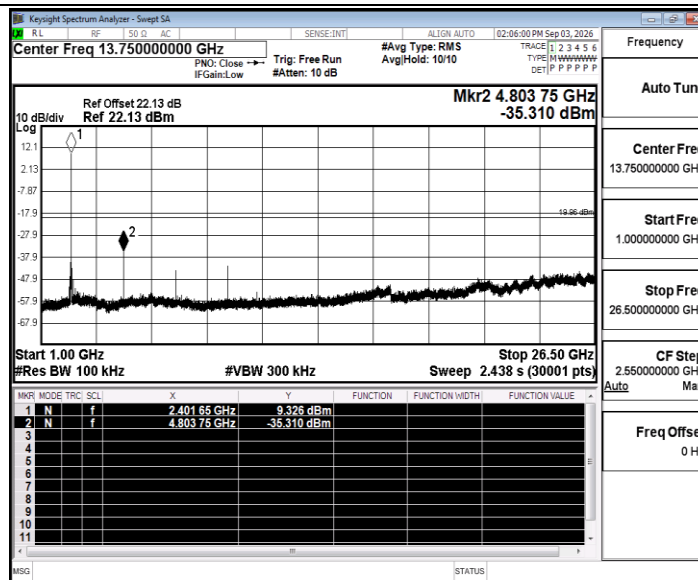
2DH5_Ant1_2402_0~Reference



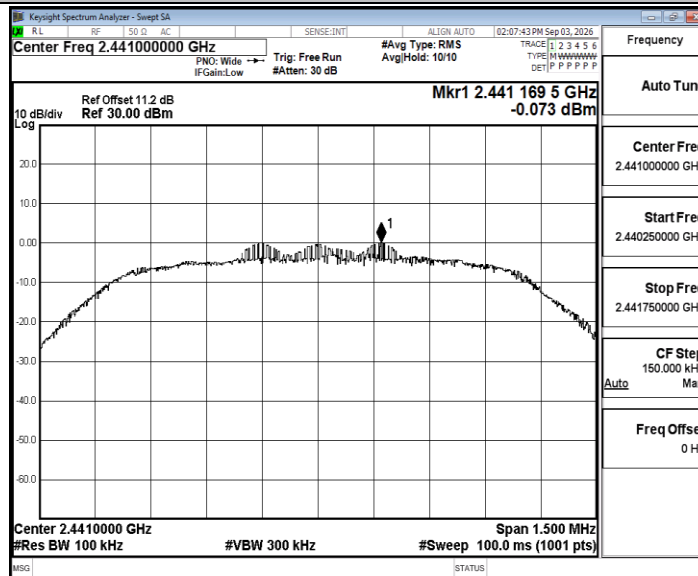
2DH5_Ant1_2402_30~1000



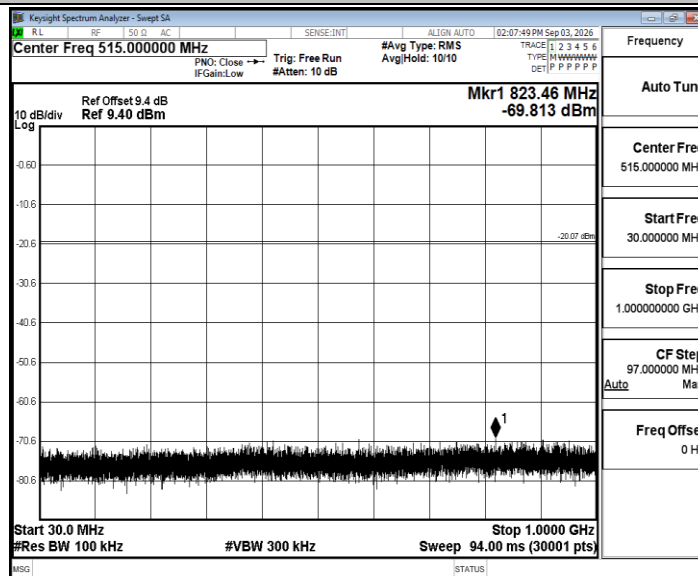
2DH5_Ant1_2402_1000~26500



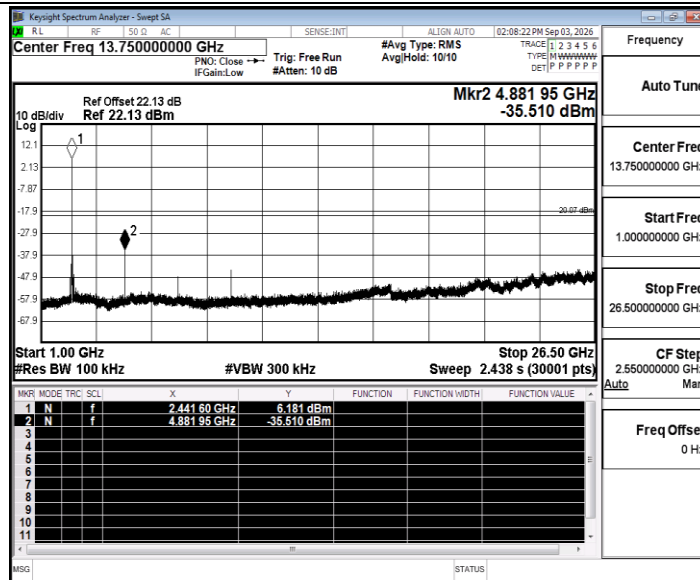
2DH5_Ant1_2441_0~Reference



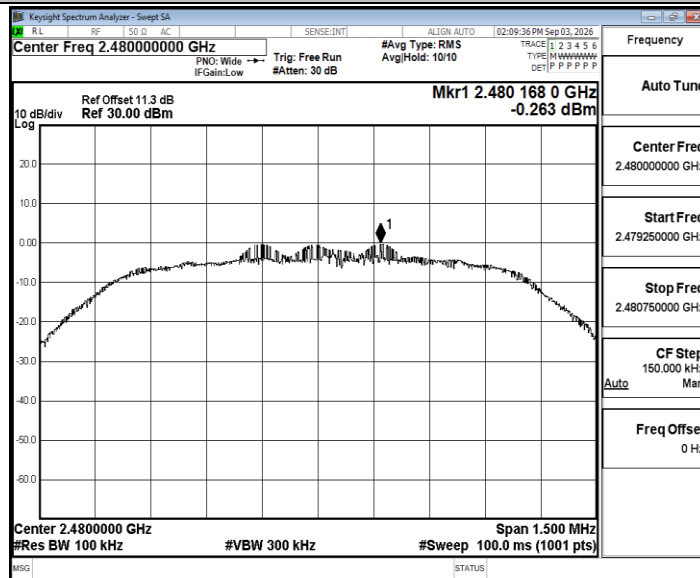
2DH5_Ant1_2441_30~1000



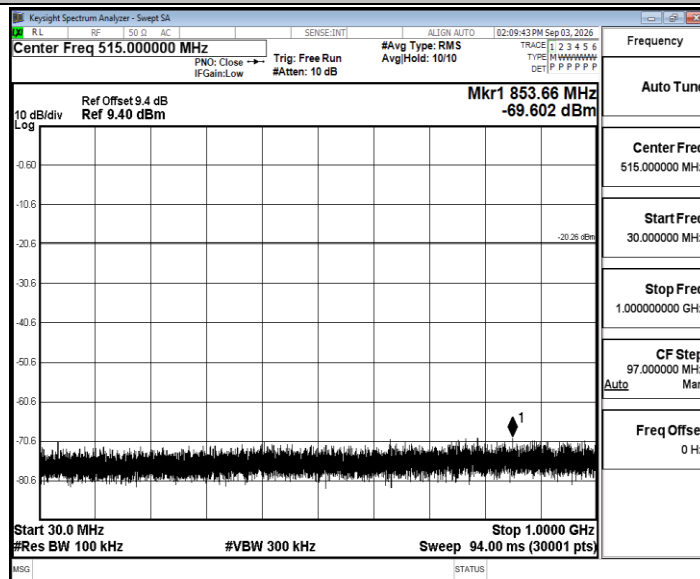
2DH5_Ant1_2441_1000~26500



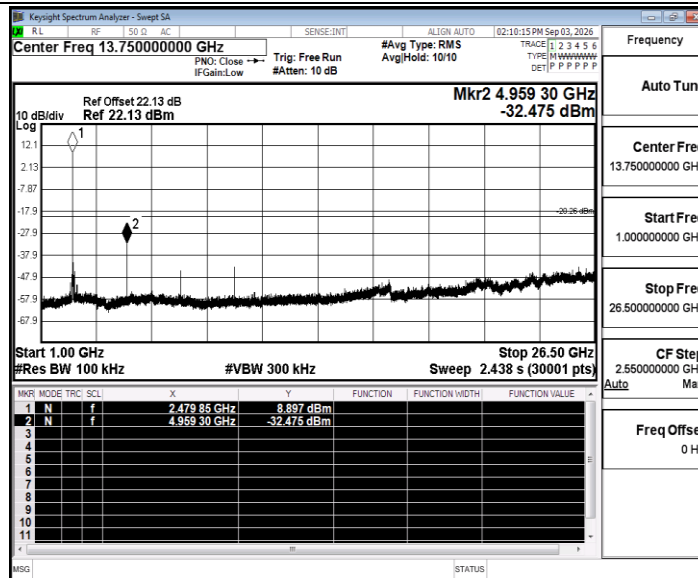
2DH5_Ant1_2480_0~Reference



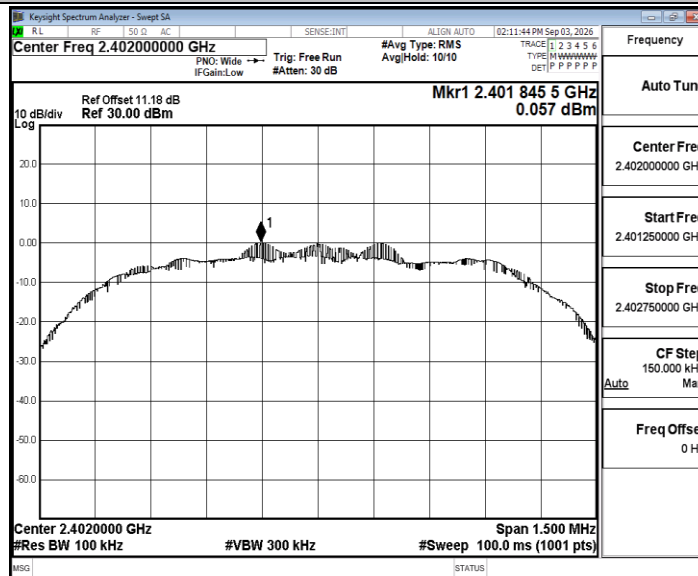
2DH5_Ant1_2480_30~1000



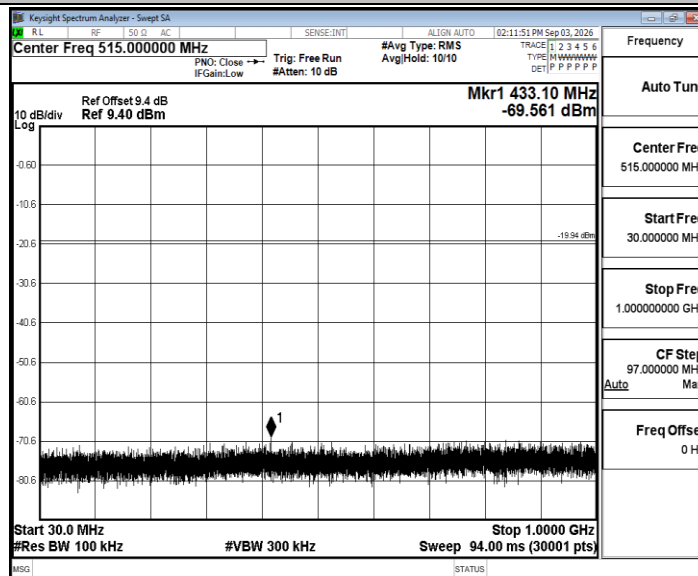
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

