

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: CRUISER LED CD PLAYER

Test Model: CR3505B-BK

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

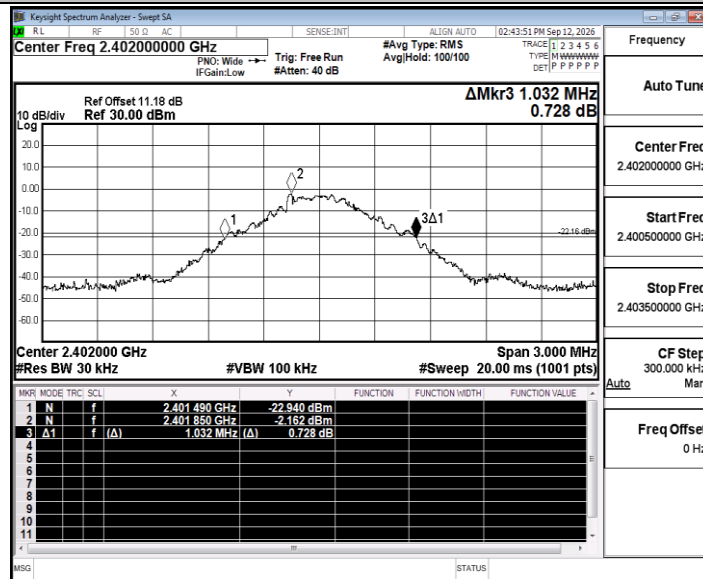
A.1 20dB Emission Bandwidth

Test Result

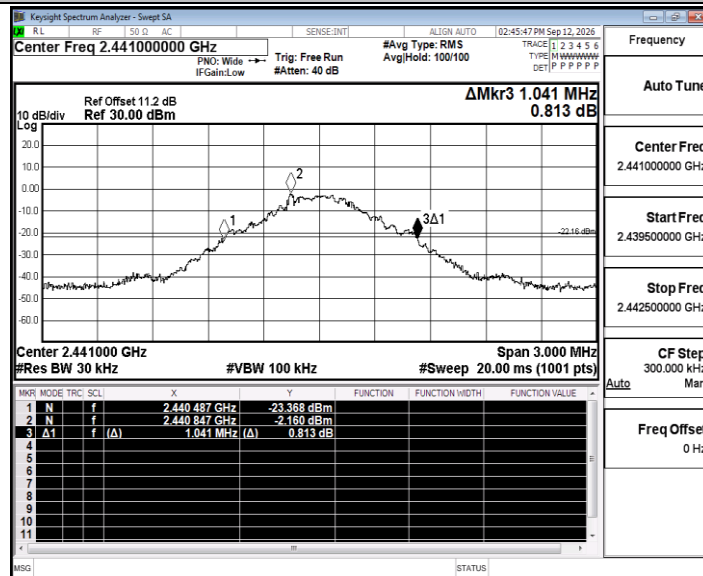
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.032	2401.490	2402.522	---	---
		2441	1.041	2440.487	2441.528	---	---
		2480	1.047	2479.484	2480.531	---	---
2DH5	Ant1	2402	1.329	2401.346	2402.675	---	---
		2441	1.332	2440.346	2441.678	---	---
		2480	1.338	2479.343	2480.681	---	---
3DH5	Ant1	2402	1.299	2401.361	2402.660	---	---
		2441	1.296	2440.361	2441.657	---	---
		2480	1.293	2479.358	2480.651	---	---

Test Graphs

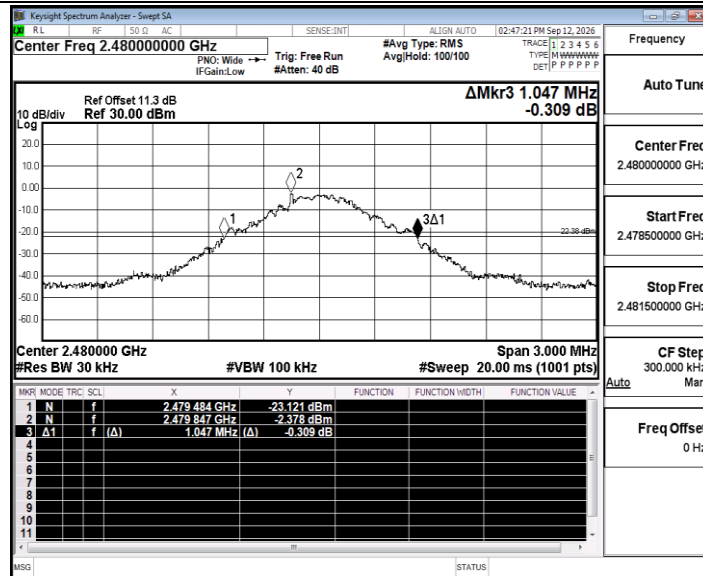
DH5_Ant1_2402



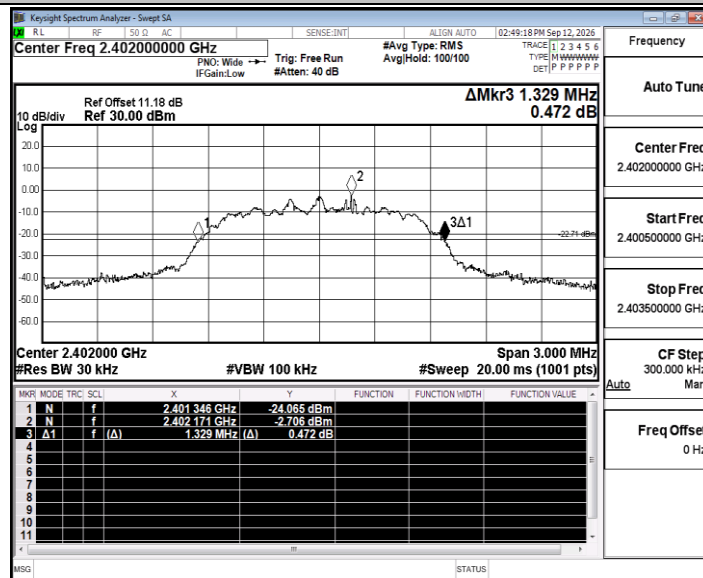
DH5_Ant1_2441



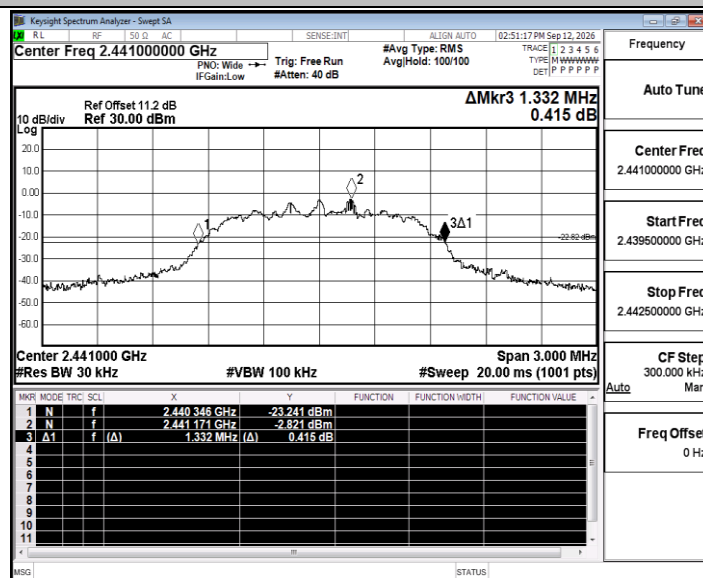
DH5_Ant1_2480



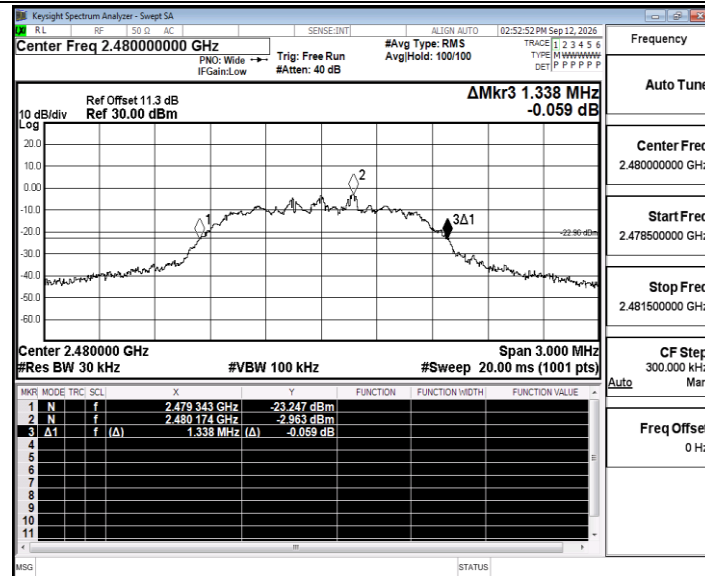
2DH5_Ant1_2402



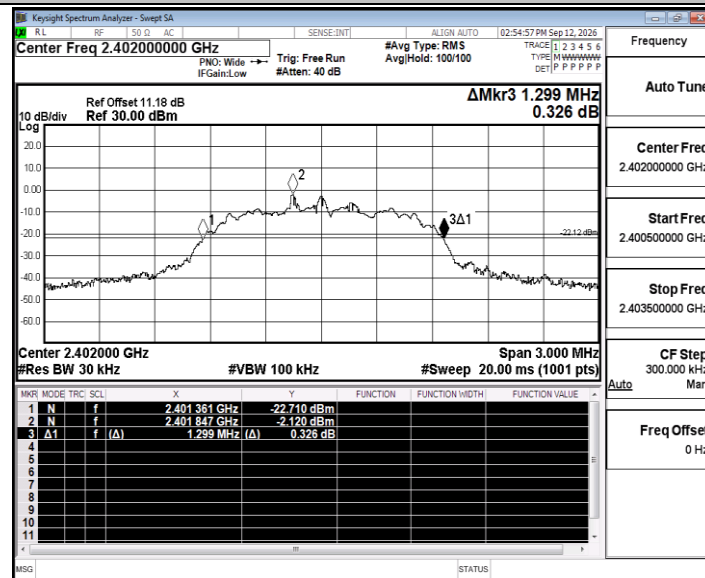
2DH5_Ant1_2441



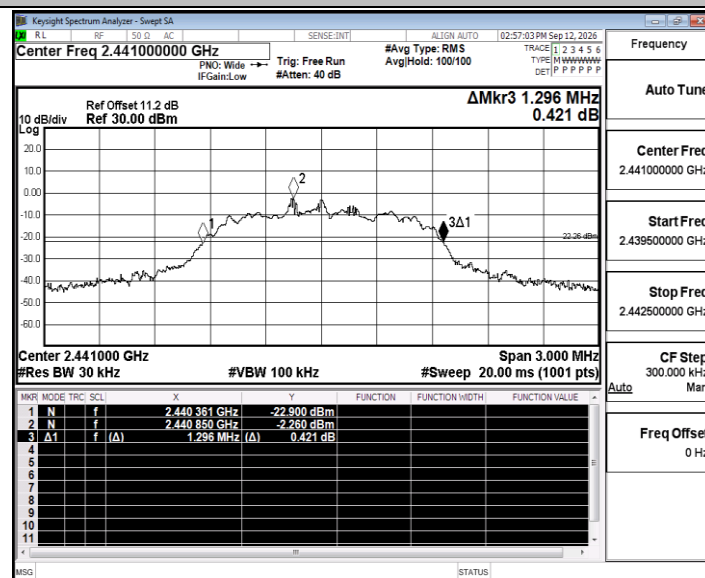
2DH5_Ant1_2480



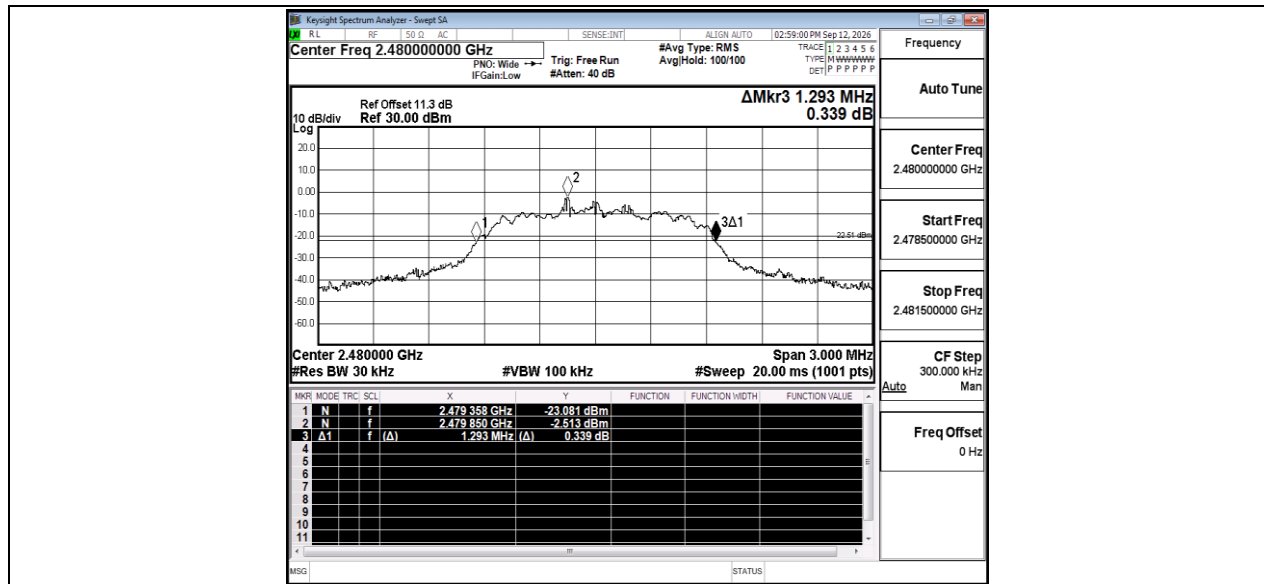
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



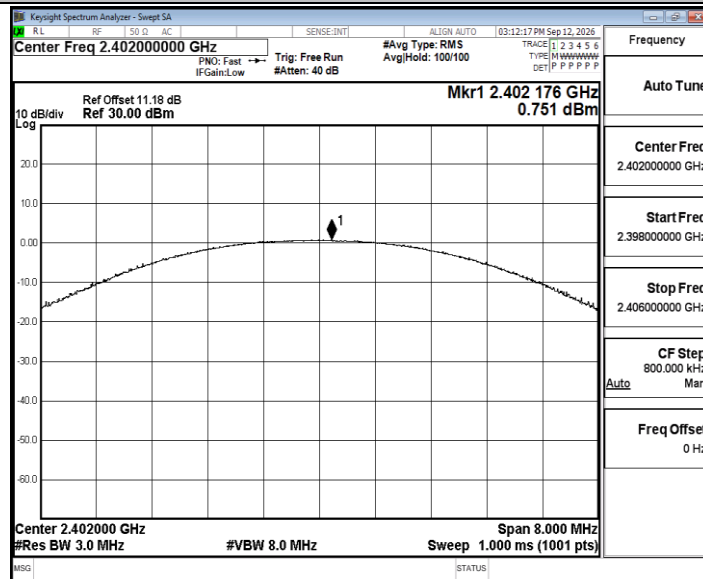
A.2 Maximum Peak conducted output power

Test Result Peak

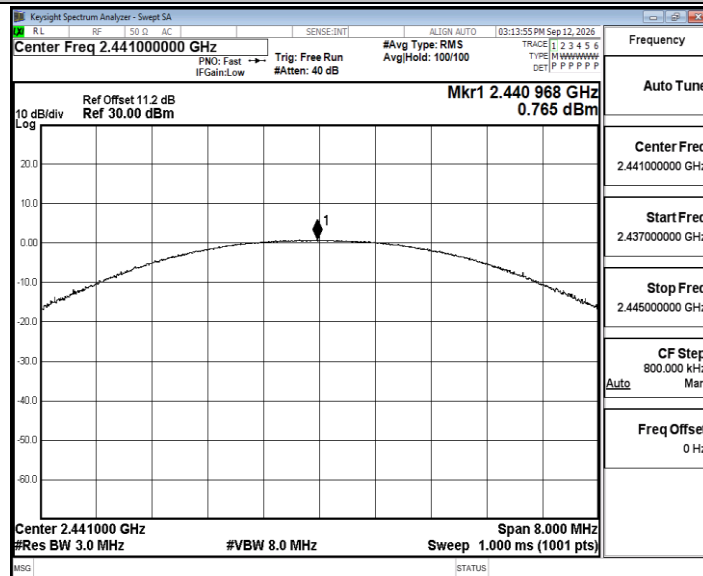
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.75	≤ 20.97	PASS
		2441	0.77	≤ 20.97	PASS
		2480	0.58	≤ 20.97	PASS
2DH5	Ant1	2402	1.37	≤ 20.97	PASS
		2441	1.41	≤ 20.97	PASS
		2480	1.08	≤ 20.97	PASS
3DH5	Ant1	2402	1.73	≤ 20.97	PASS
		2441	1.65	≤ 20.97	PASS
		2480	1.59	≤ 20.97	PASS

Test Graphs

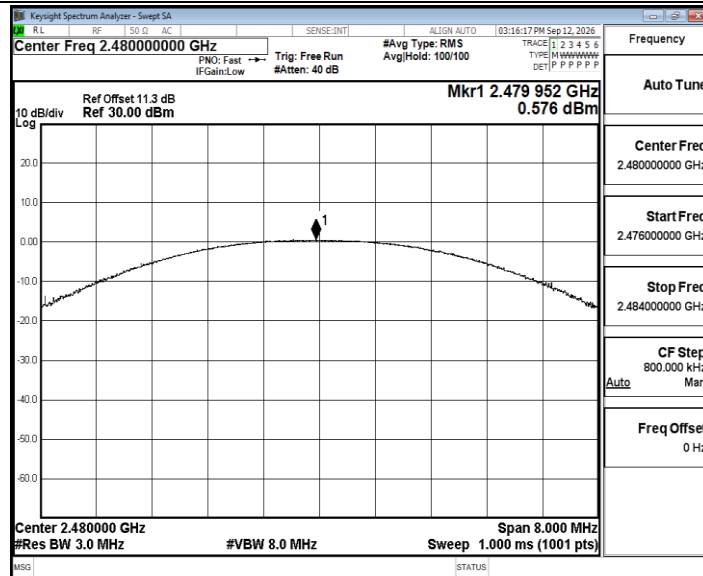
DH5_Ant1_2402



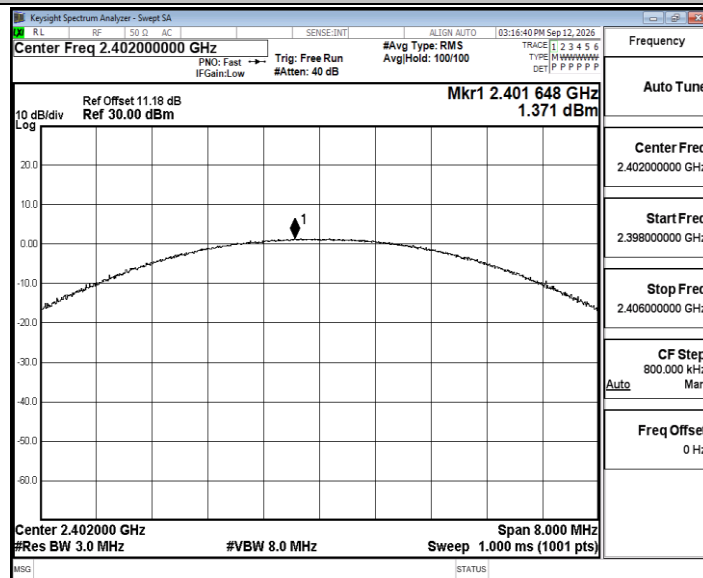
DH5_Ant1_2441



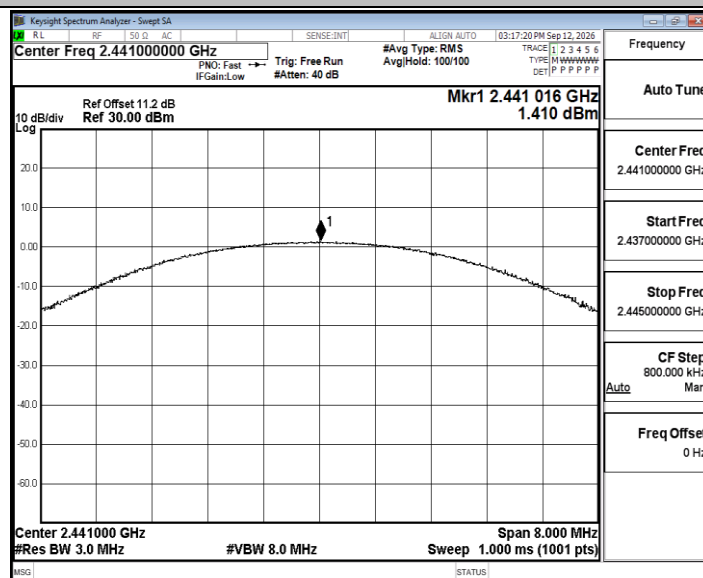
DH5_Ant1_2480



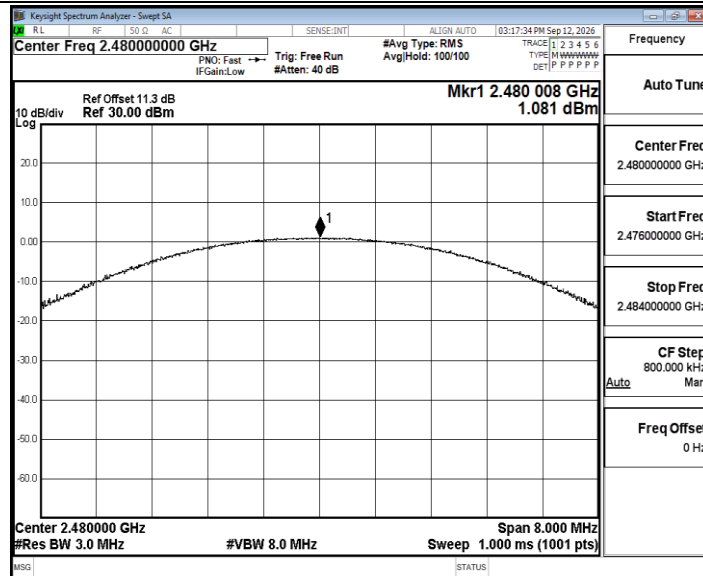
2DH5_Ant1_2402



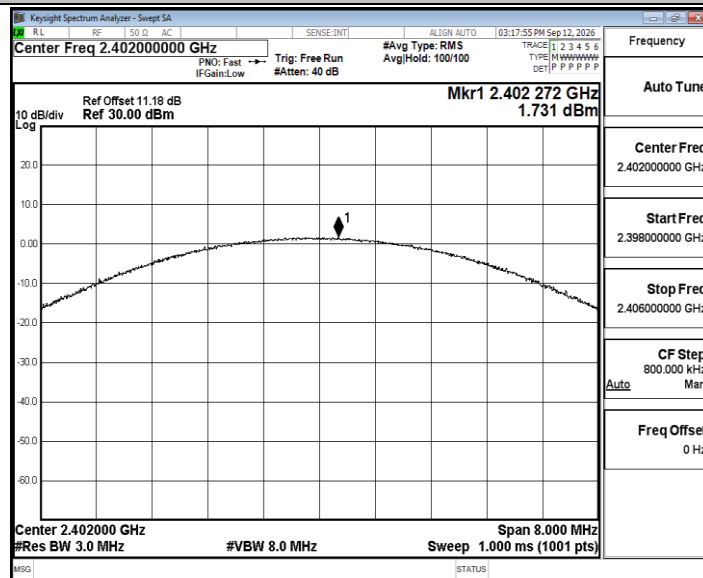
2DH5_Ant1_2441



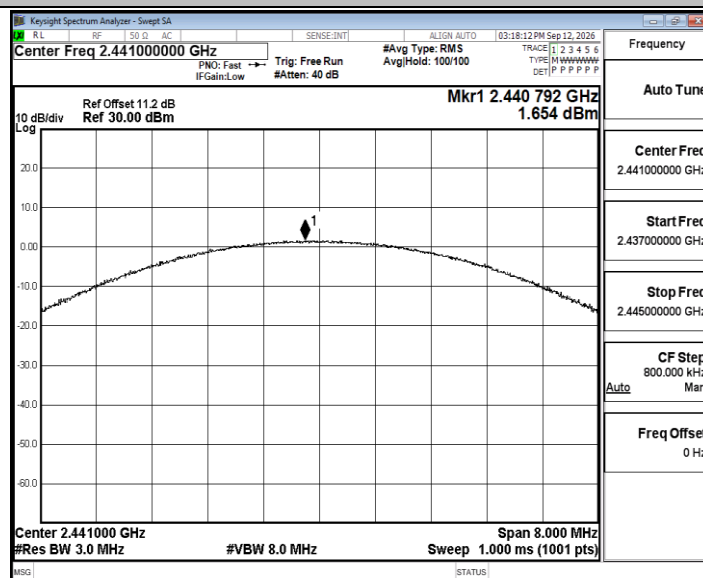
2DH5_Ant1_2480



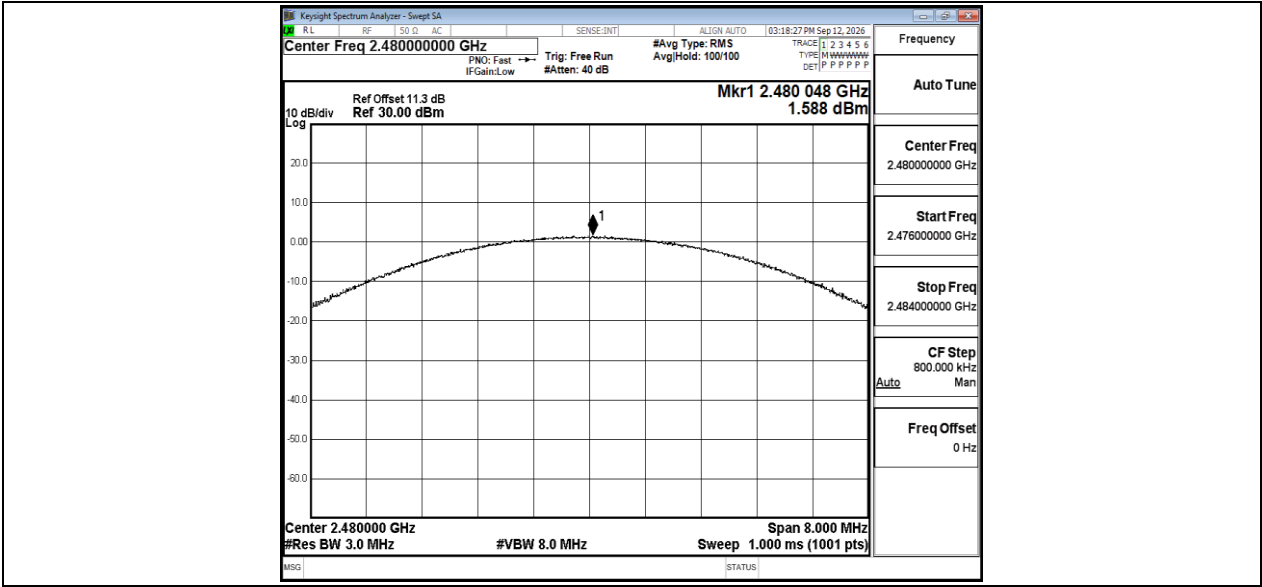
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

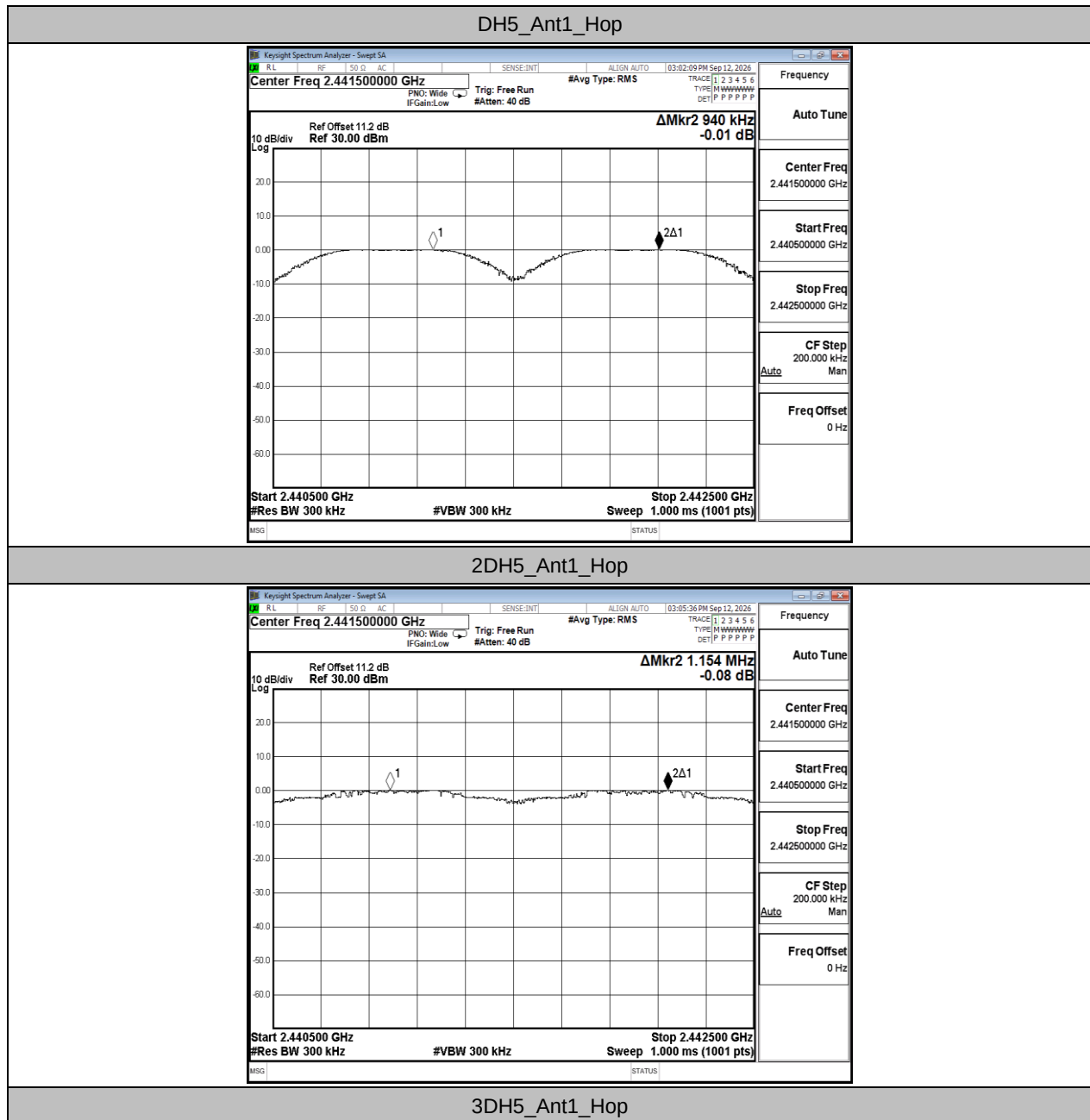


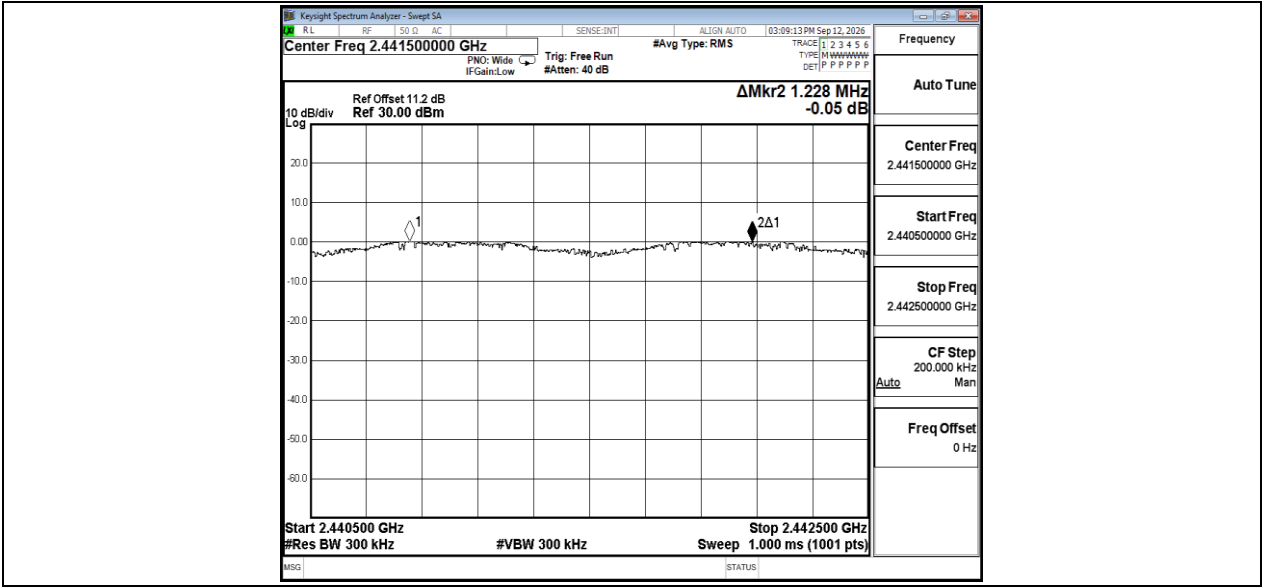
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.94	≥0.698	PASS
2DH5	Ant1	Hop	1.154	≥0.892	PASS
3DH5	Ant1	Hop	1.228	≥0.866	PASS

Test Graphs



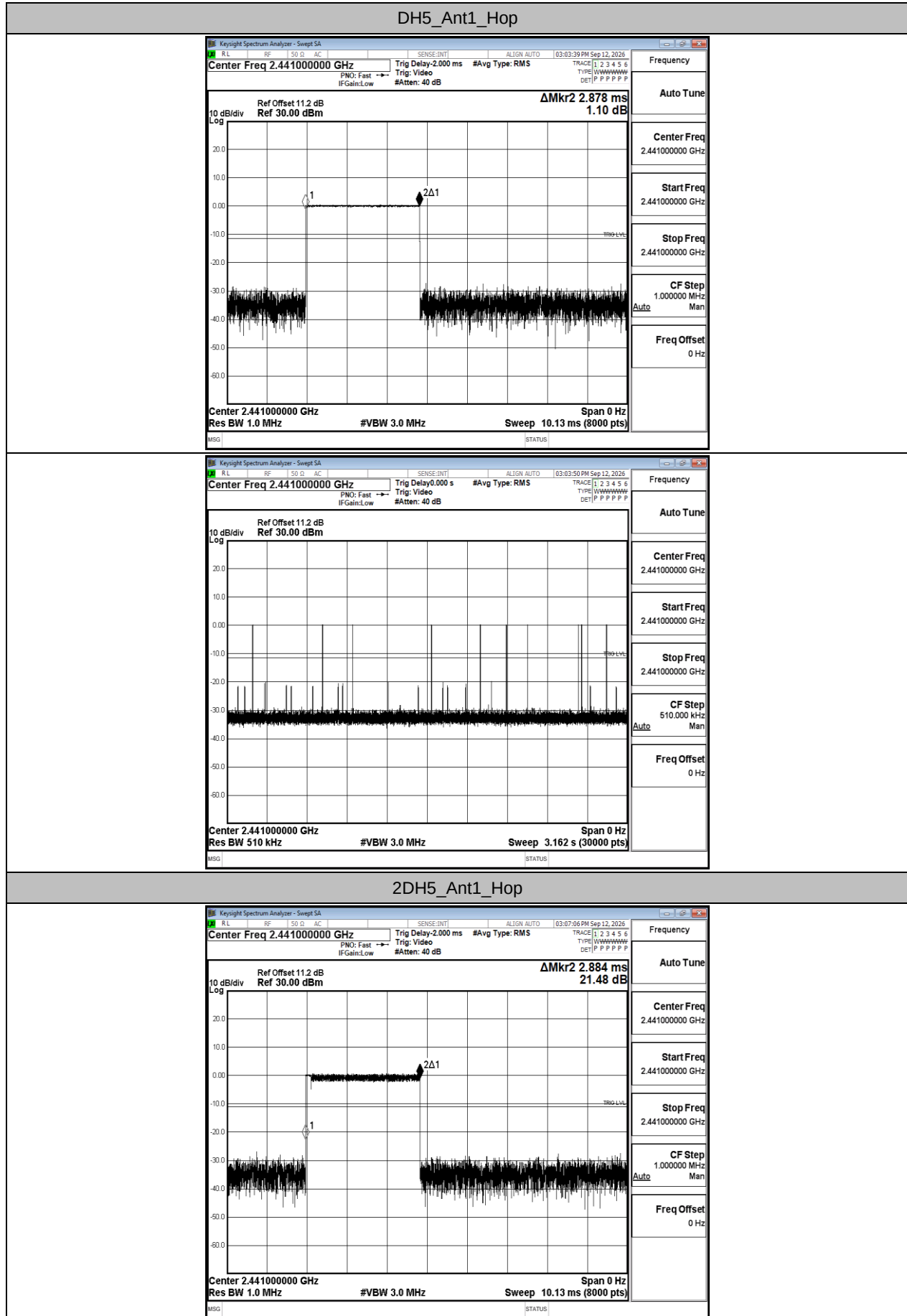


A.4 Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.878	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.884	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.887	130	0.375	≤0.4	PASS

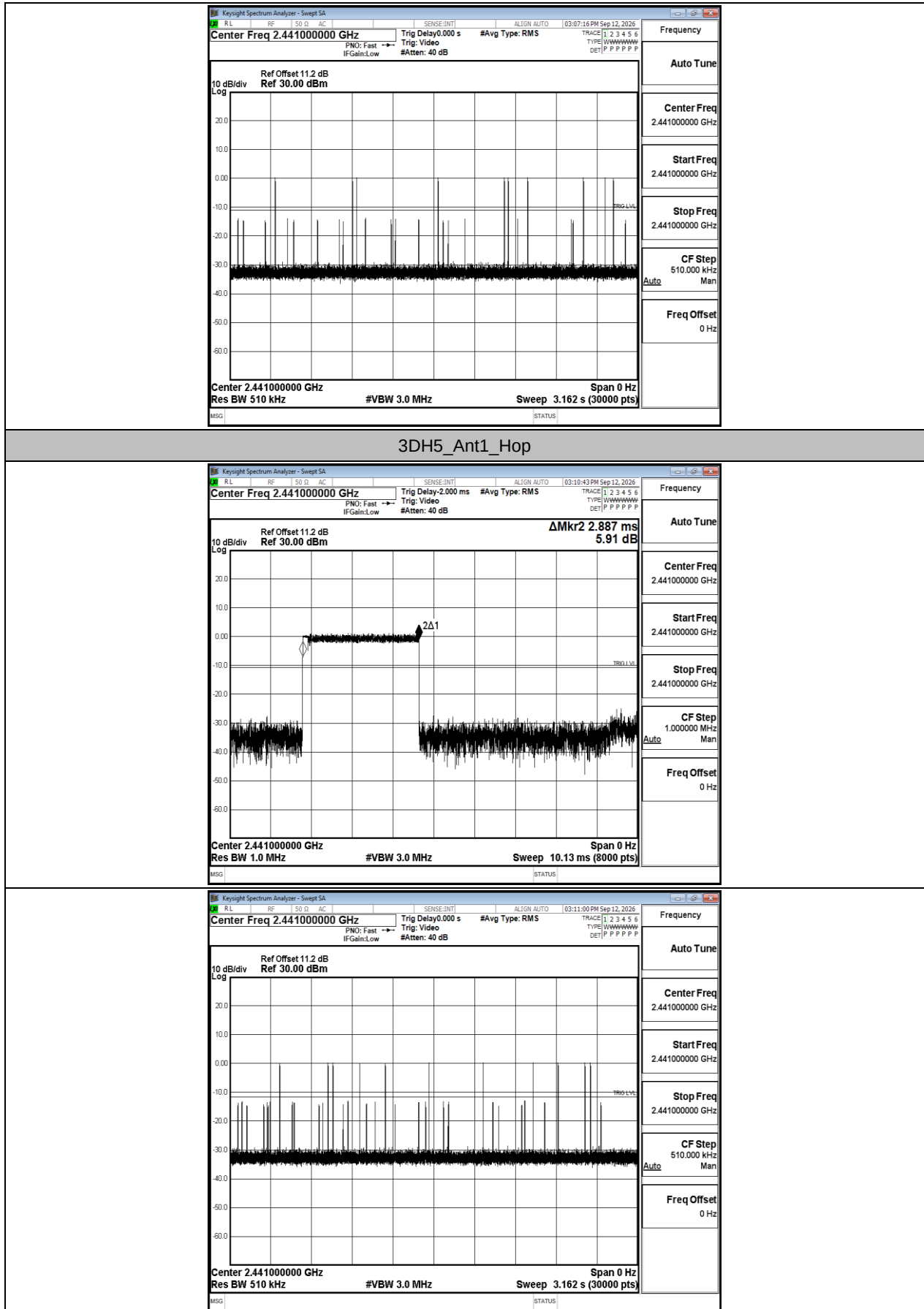
Test Graphs



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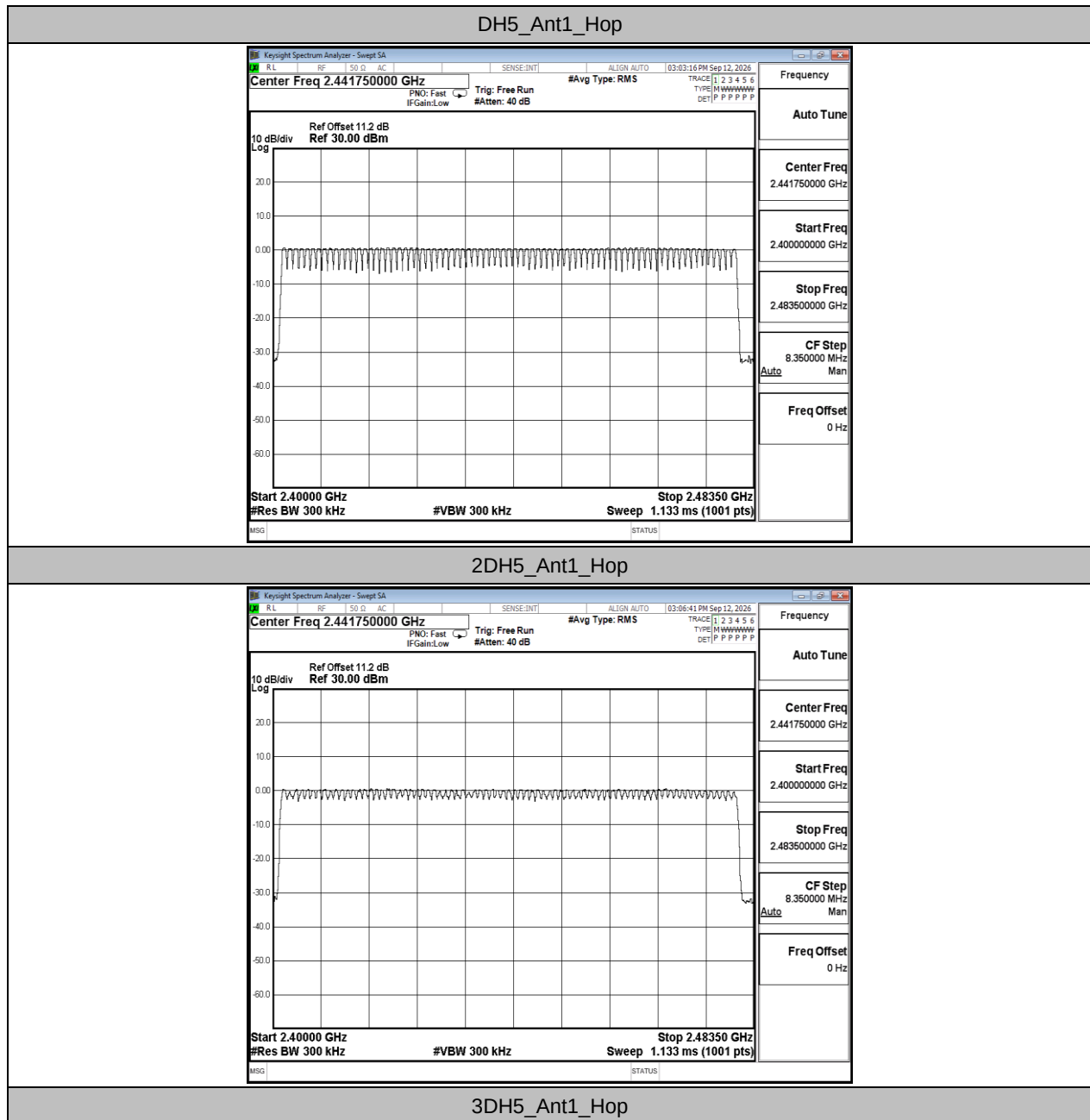


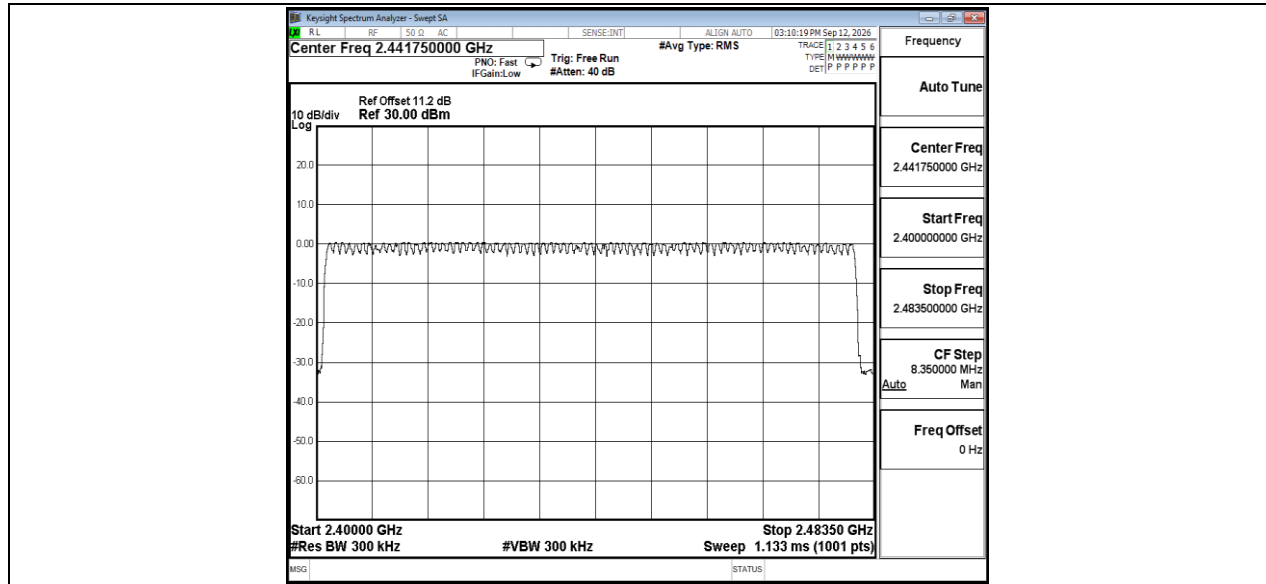
A.5 Number of hopping channels

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





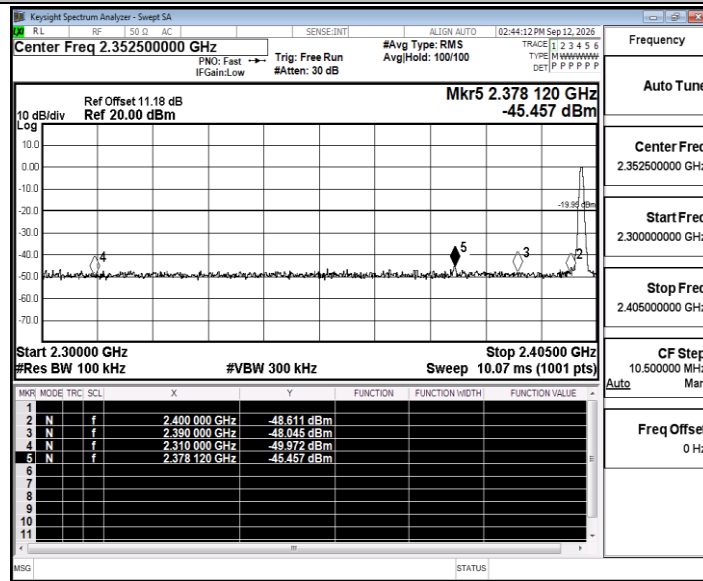
A.6 Band edge measurements

Test Result

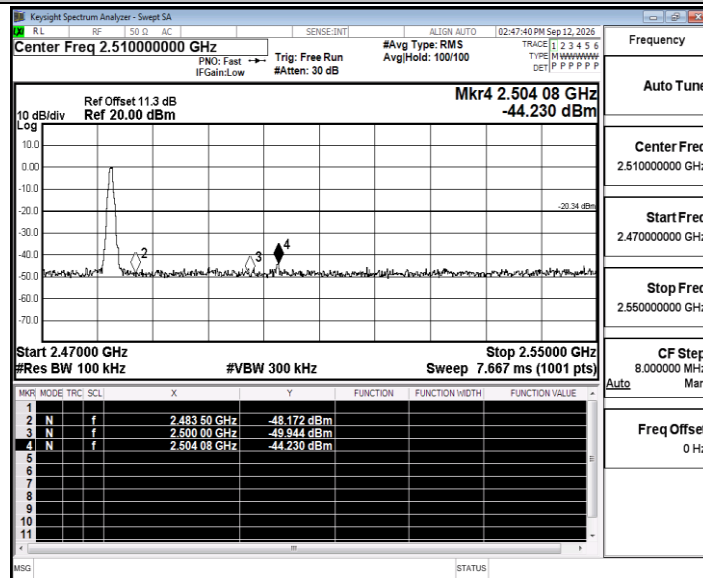
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.05	-45.46	≤ -19.95	PASS
		High	2480	-0.34	-44.23	≤ -20.34	PASS
		Low	Hop_2402	-0.96	-44.32	≤ -20.96	PASS
		High	Hop_2480	-0.68	-44.57	≤ -20.68	PASS
2DH5	Ant1	Low	2402	0.08	-45.66	≤ -19.92	PASS
		High	2480	-0.28	-44.71	≤ -20.28	PASS
		Low	Hop_2402	-4.88	-45.92	≤ -24.88	PASS
		High	Hop_2480	-2.78	-45.78	≤ -22.78	PASS
3DH5	Ant1	Low	2402	0.04	-44.98	≤ -19.96	PASS
		High	2480	-0.89	-45.87	≤ -20.89	PASS
		Low	Hop_2402	-4.69	-46.1	≤ -24.69	PASS
		High	Hop_2480	-5.36	-46.38	≤ -25.36	PASS

Test Graphs

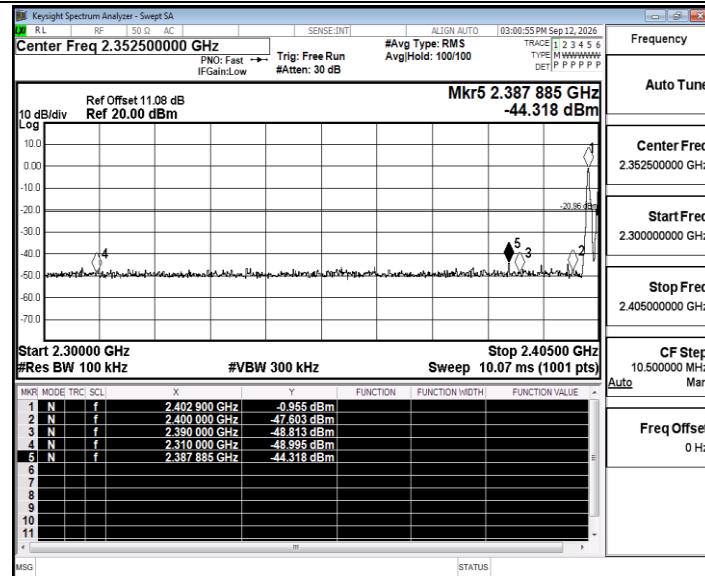
DH5_Ant1_Low_2402



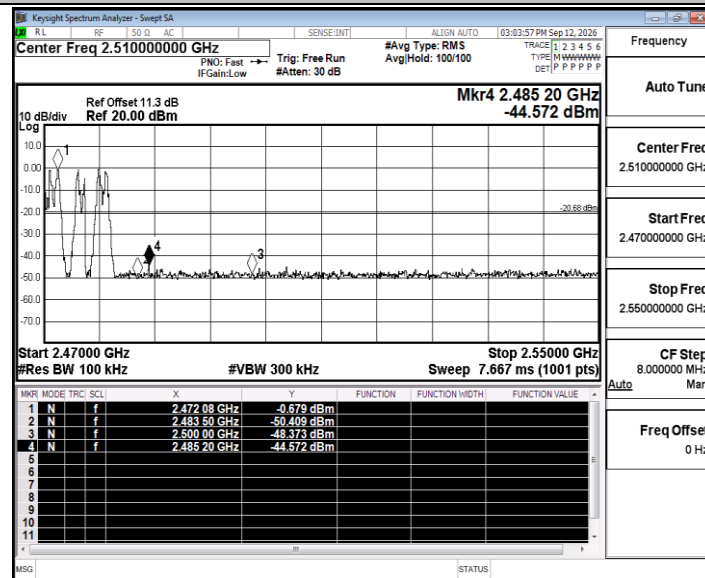
DH5_Ant1_High_2480



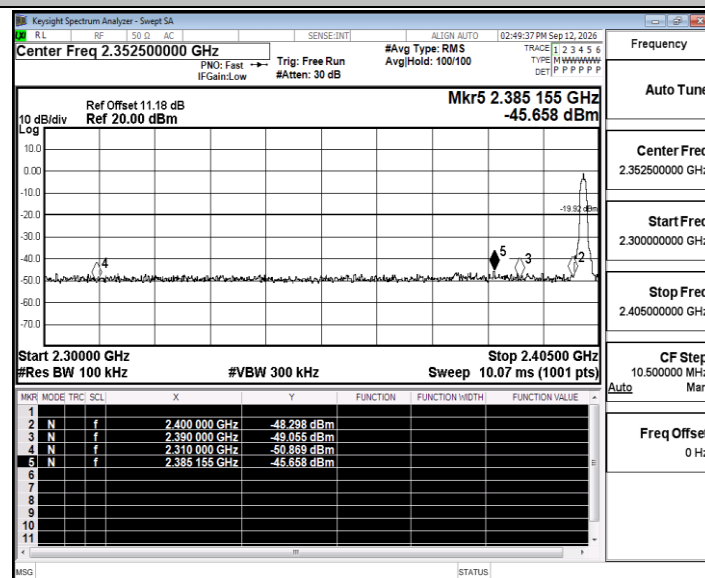
DH5_Ant1_Low_Hop_2402



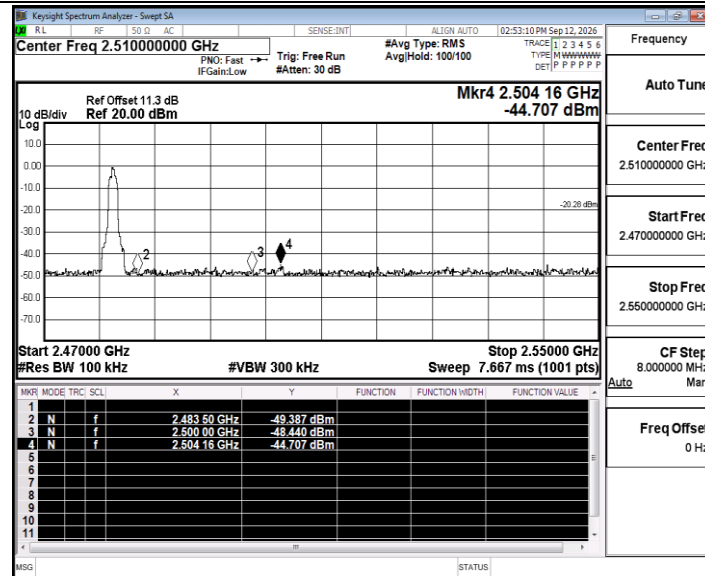
DH5_Ant1_High_Hop_2480



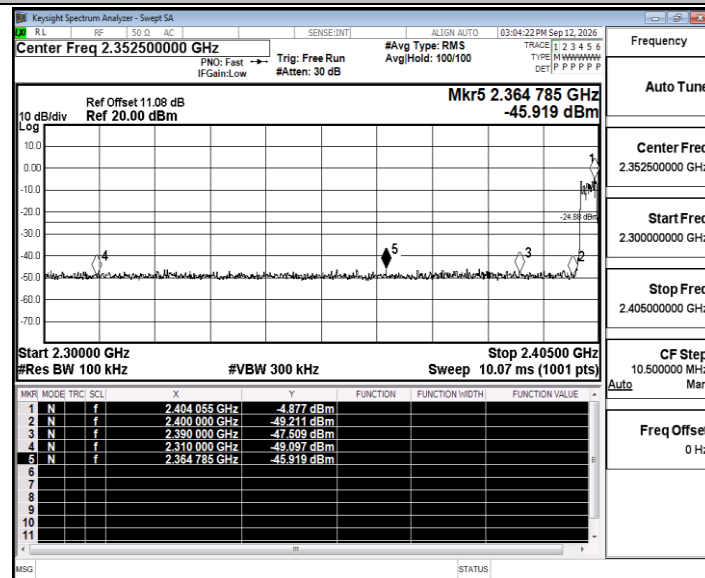
2DH5_Ant1_Low_2402



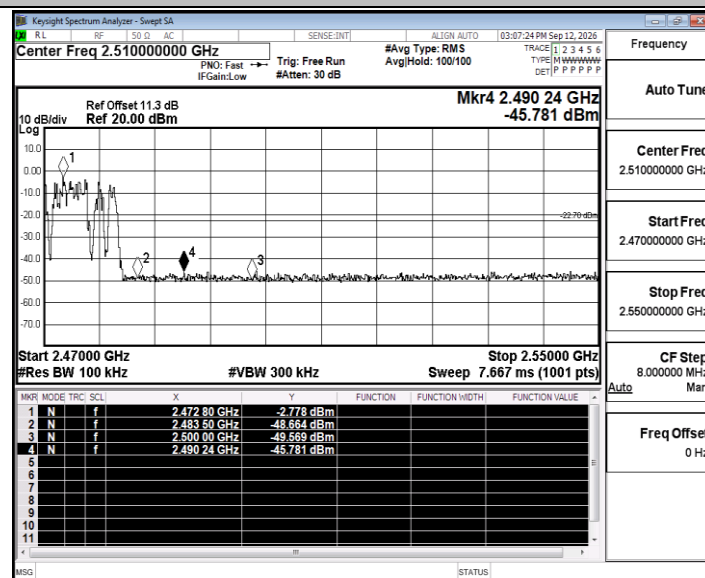
2DH5_Ant1_High_2480



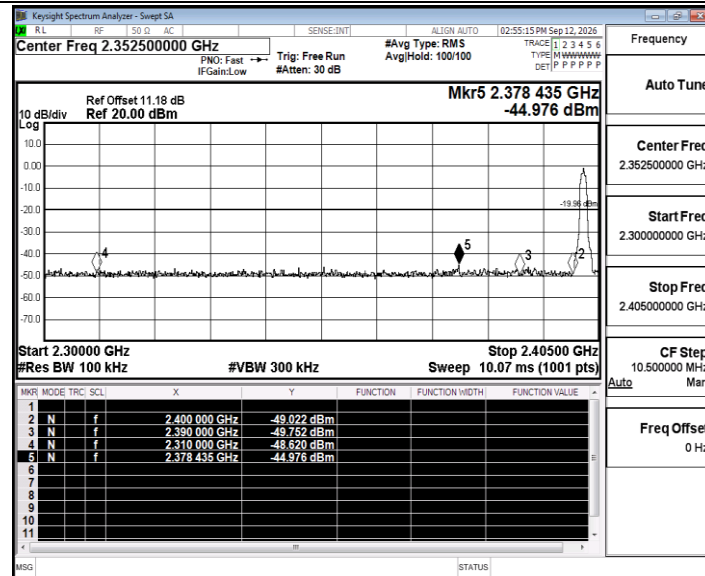
2DH5_Ant1_Low_Hop_2402



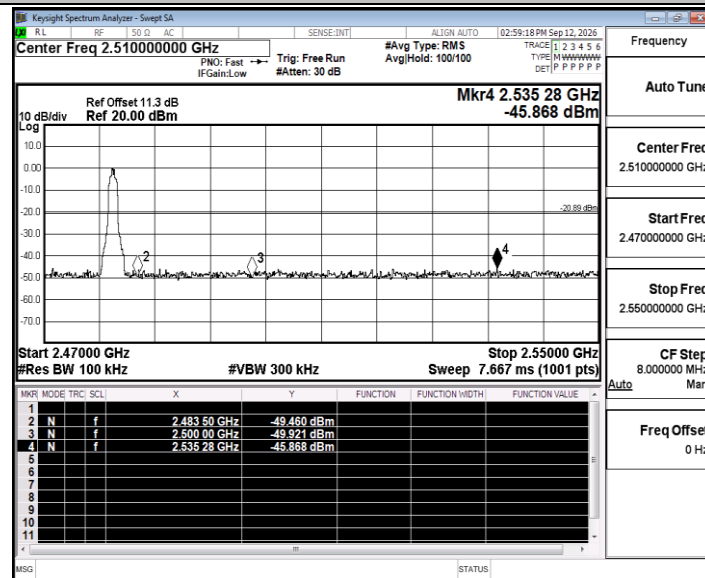
2DH5_Ant1_High_Hop_2480



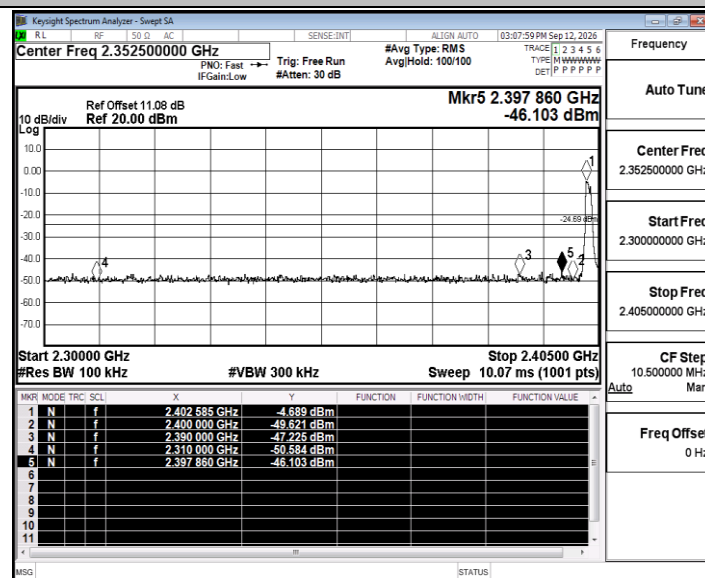
3DH5_Ant1_Low_2402



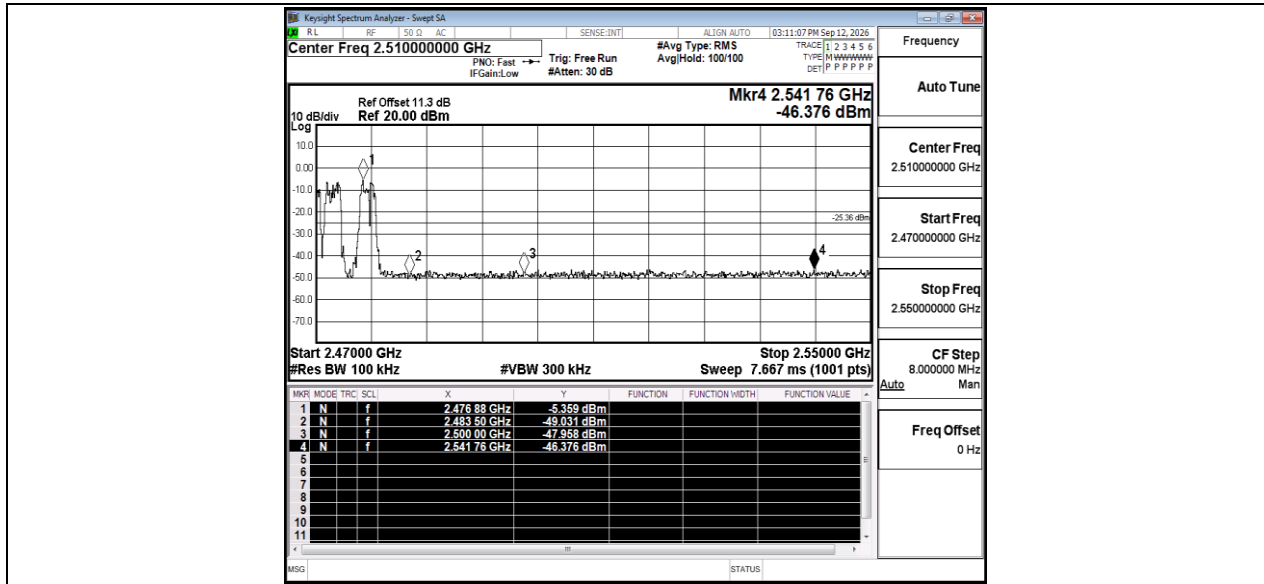
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

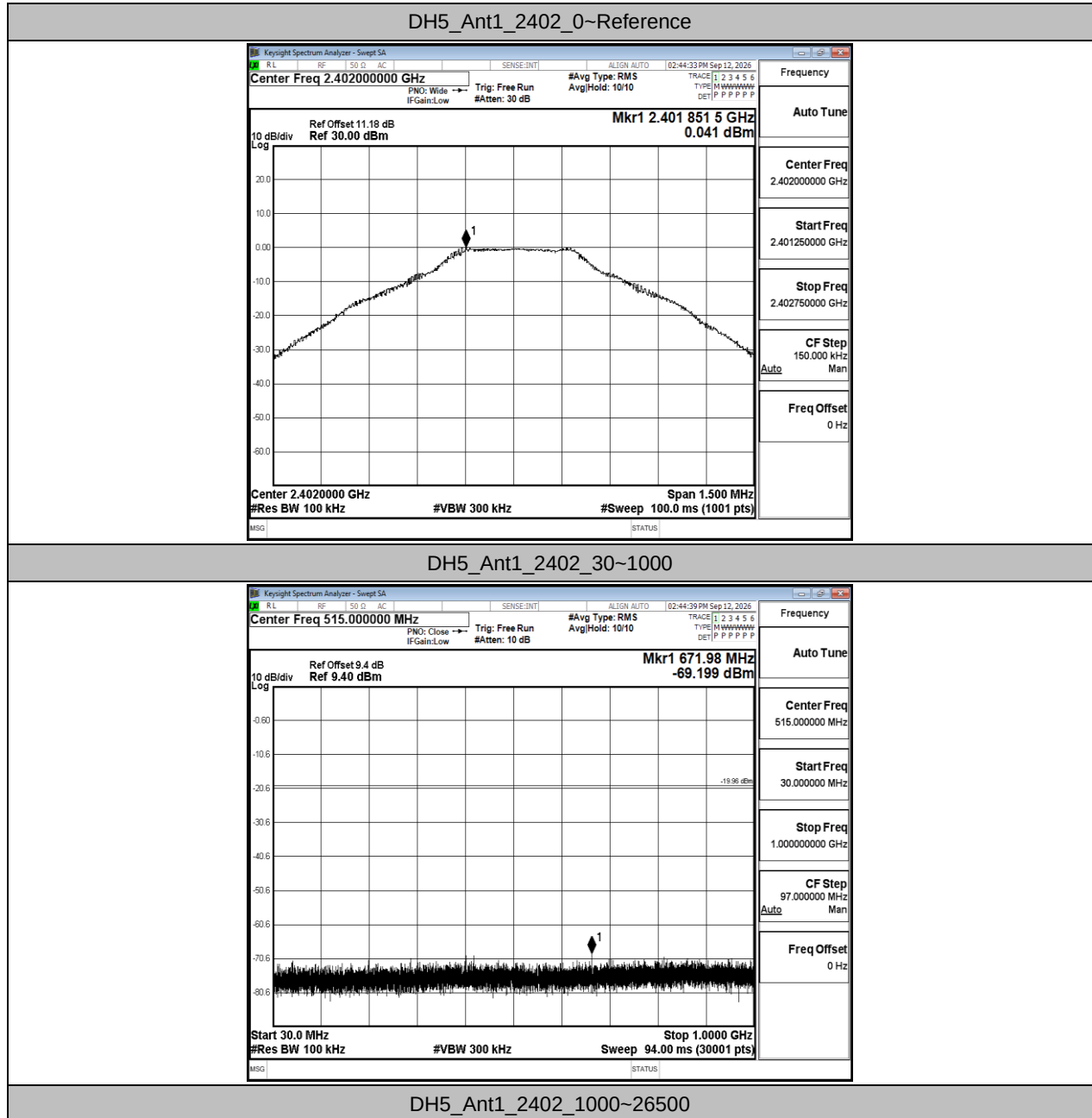


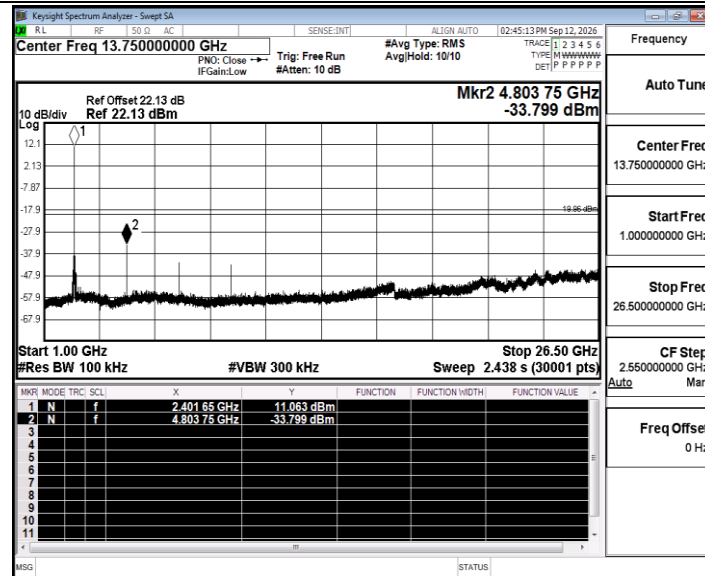
A.7 Conducted Spurious Emission

Test Result

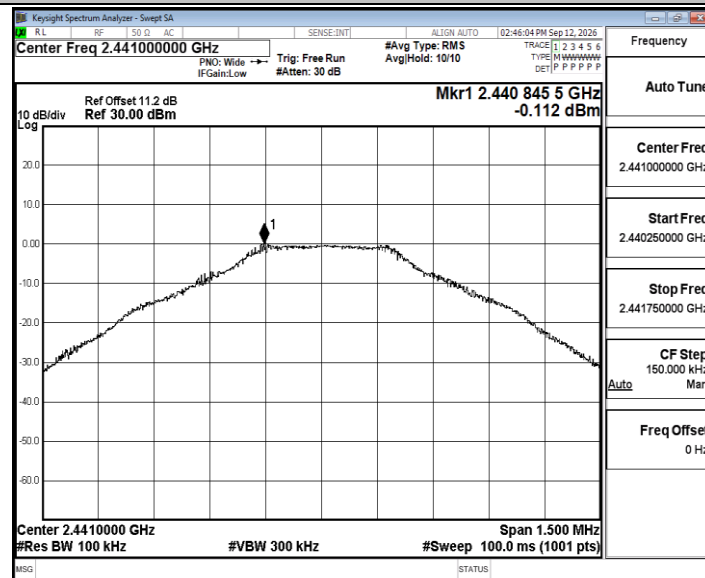
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-69.2	≤-19.96	PASS
			1000~26500	0.04	-33.8	≤-19.96	PASS
		2441	Reference	-0.11	-0.11	---	PASS
			30~1000	-0.11	-68.9	≤-20.11	PASS
			1000~26500	-0.11	-30.99	≤-20.11	PASS
		2480	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-69.99	≤-20.29	PASS
			1000~26500	-0.29	-30.26	≤-20.29	PASS
2DH5	Ant1	2402	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-68.98	≤-19.99	PASS
			1000~26500	0.01	-35.78	≤-19.99	PASS
		2441	Reference	-0.11	-0.11	---	PASS
			30~1000	-0.11	-69.31	≤-20.11	PASS
			1000~26500	-0.11	-31.89	≤-20.11	PASS
		2480	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-70.03	≤-20.23	PASS
			1000~26500	-0.23	-34.69	≤-20.23	PASS
3DH5	Ant1	2402	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-69.73	≤-19.95	PASS
			1000~26500	0.05	-37.67	≤-19.95	PASS
		2441	Reference	-0.10	-0.10	---	PASS
			30~1000	-0.10	-69.81	≤-20.1	PASS
			1000~26500	-0.10	-34.71	≤-20.1	PASS
		2480	Reference	-0.26	-0.26	---	PASS
			30~1000	-0.26	-69.15	≤-20.26	PASS
			1000~26500	-0.26	-31.72	≤-20.26	PASS

Test Graphs

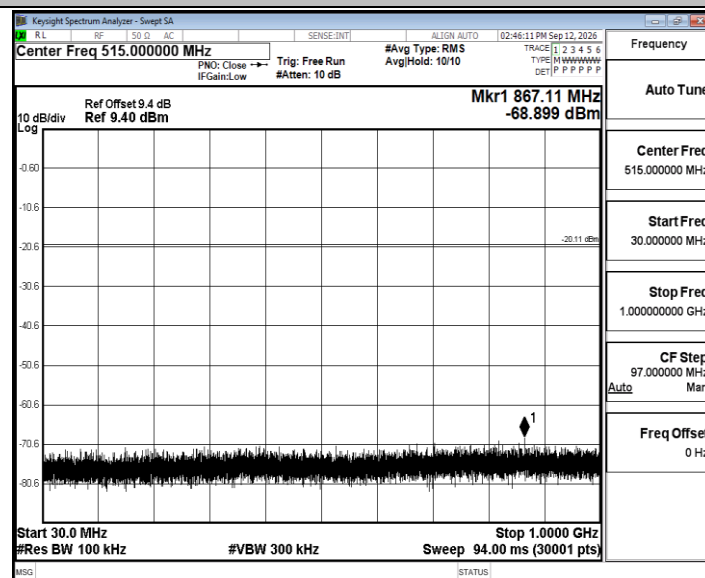




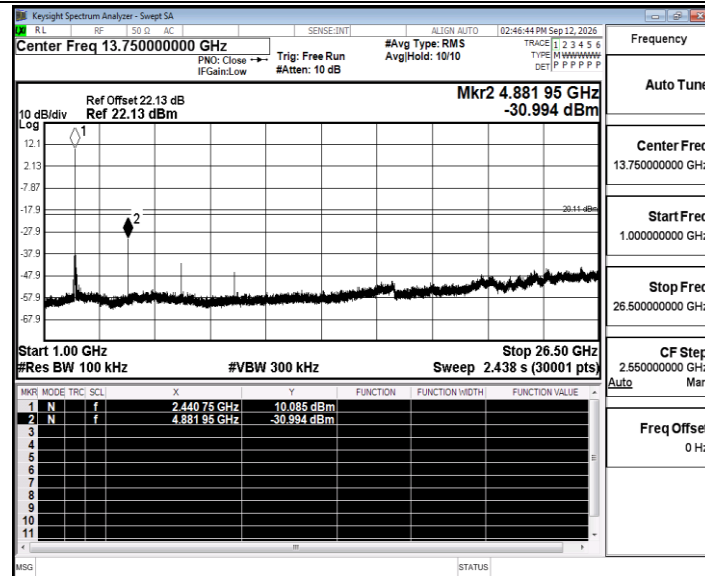
DH5_Ant1_2441_0~Reference



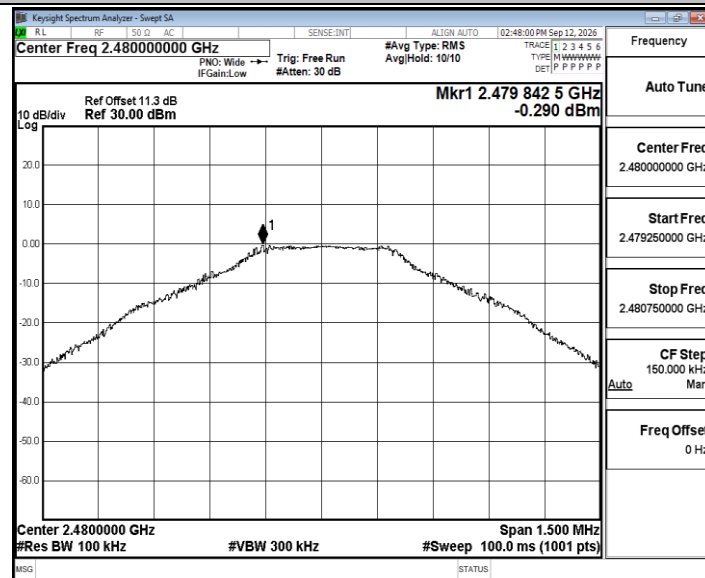
DH5_Ant1_2441_30~1000



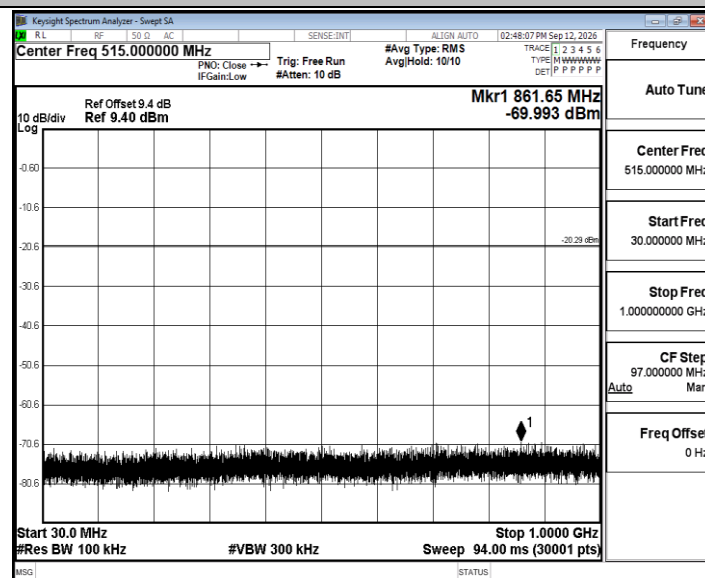
DH5_Ant1_2441_1000~26500



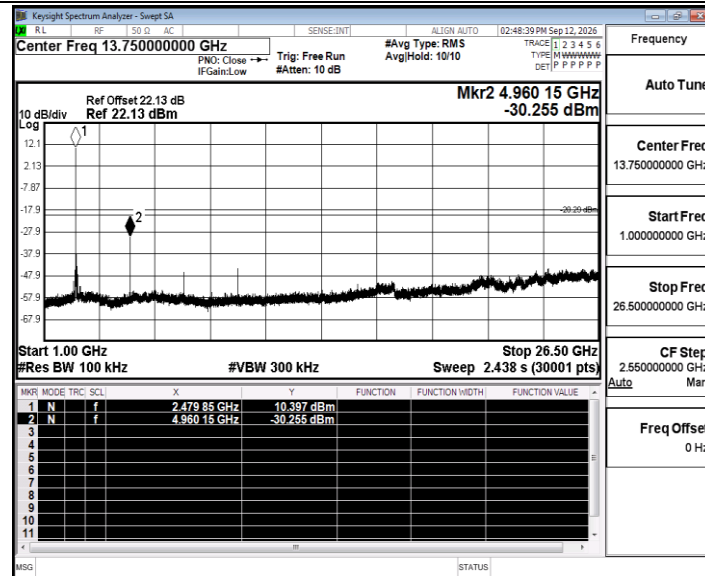
DH5_Ant1_2480_0~Reference



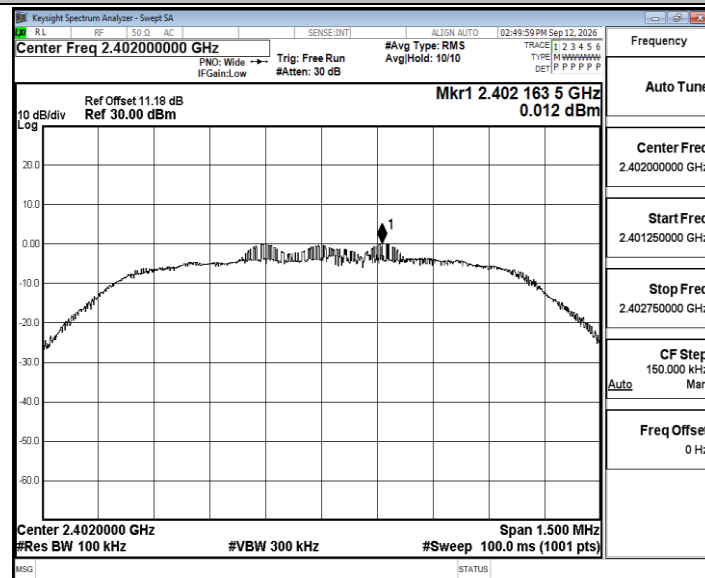
DH5_Ant1_2480_30~1000



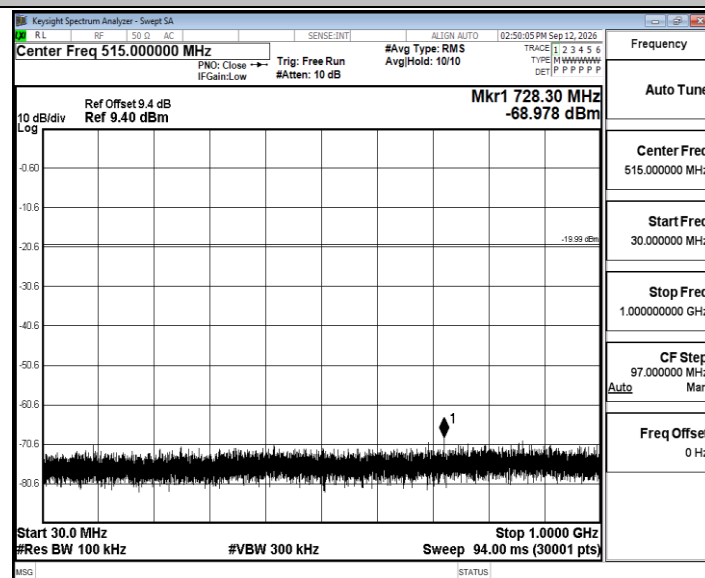
DH5_Ant1_2480_1000~26500



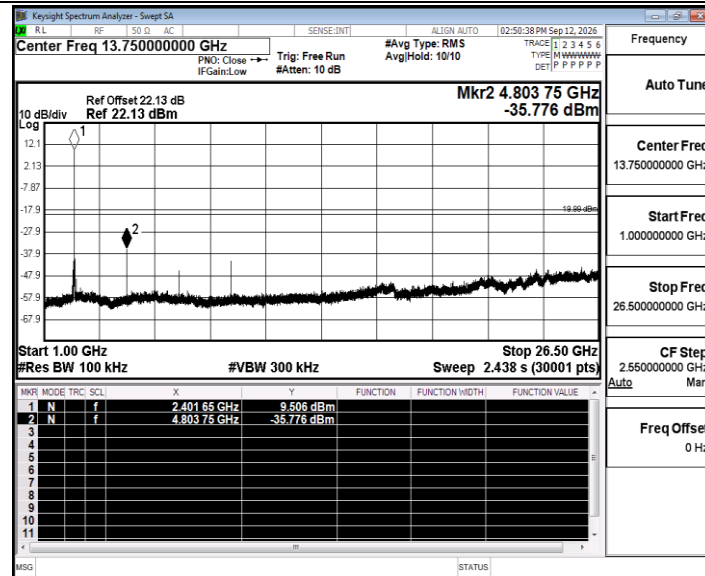
2DH5_Ant1_2402_0~Reference



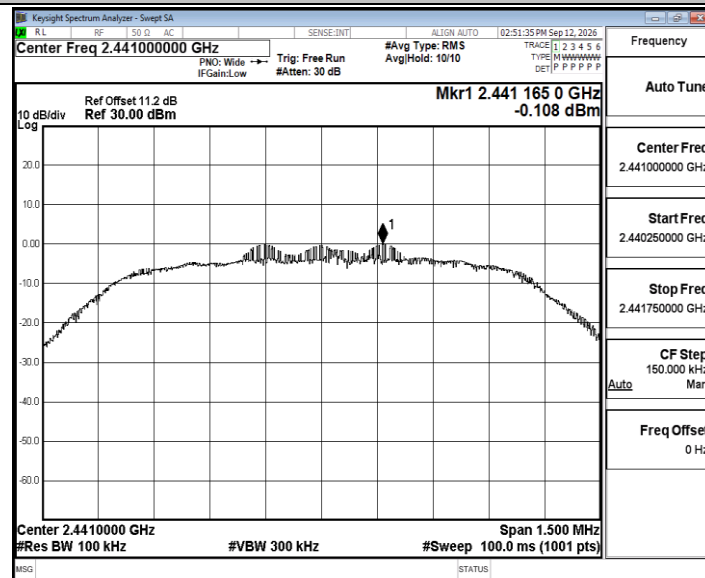
2DH5_Ant1_2402_30~1000



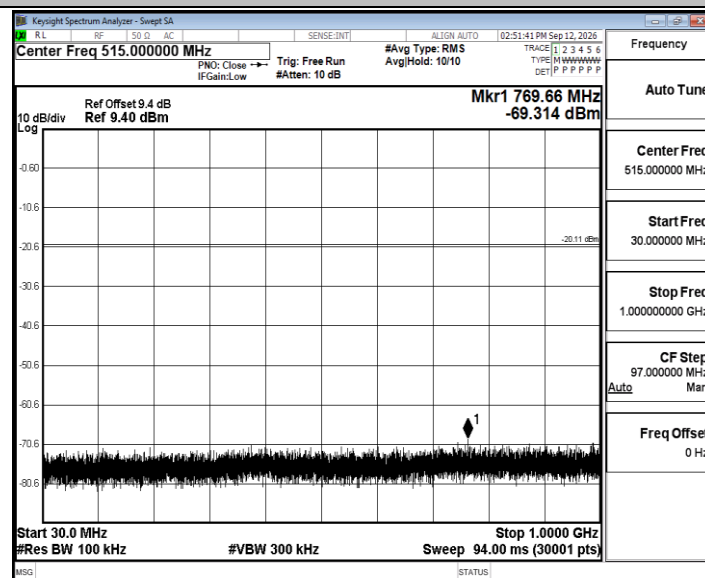
2DH5_Ant1_2402_1000~26500



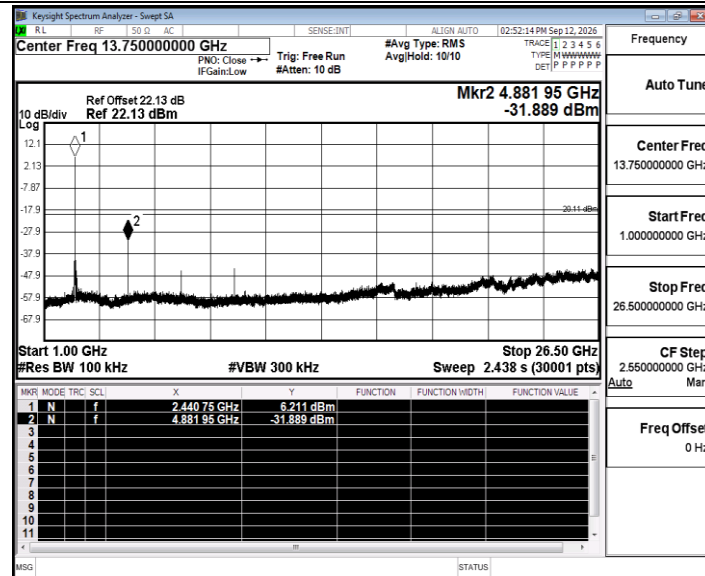
2DH5_Ant1_2441_0~Reference



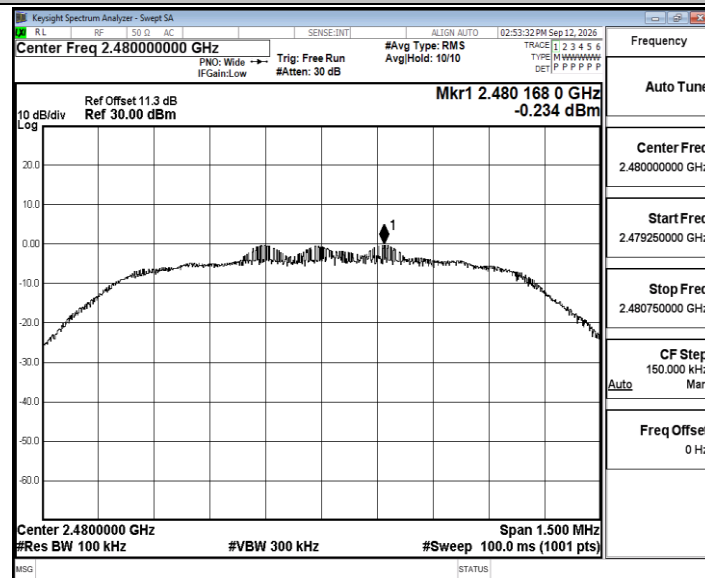
2DH5_Ant1_2441_30~1000



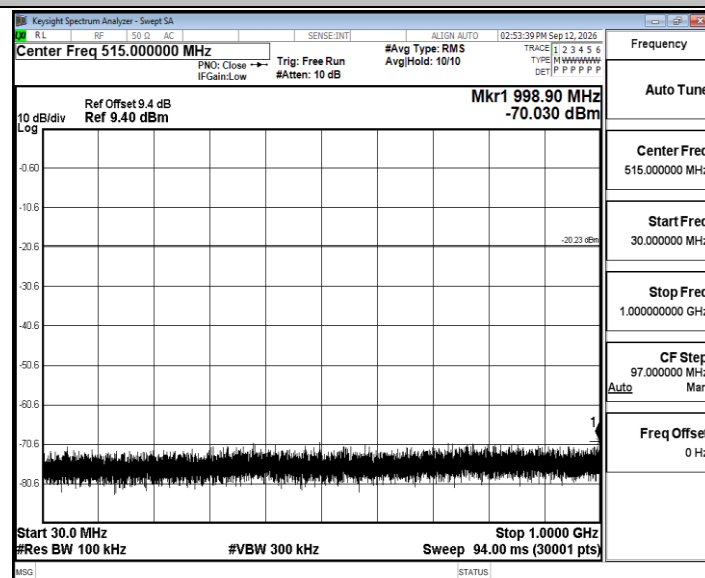
2DH5_Ant1_2441_1000~26500



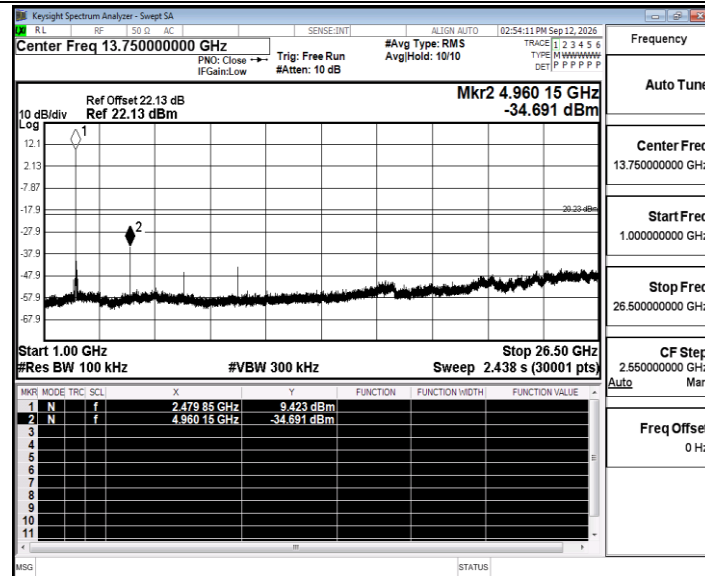
2DH5_Ant1_2480_0~Reference



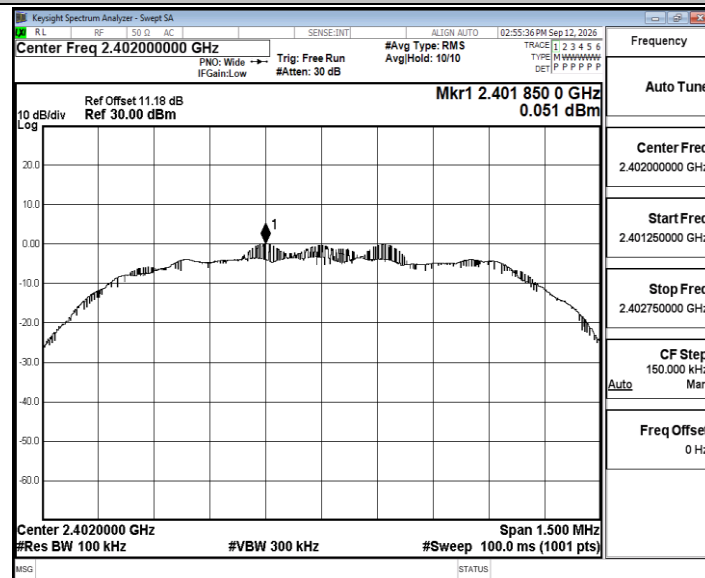
2DH5_Ant1_2480_30~1000



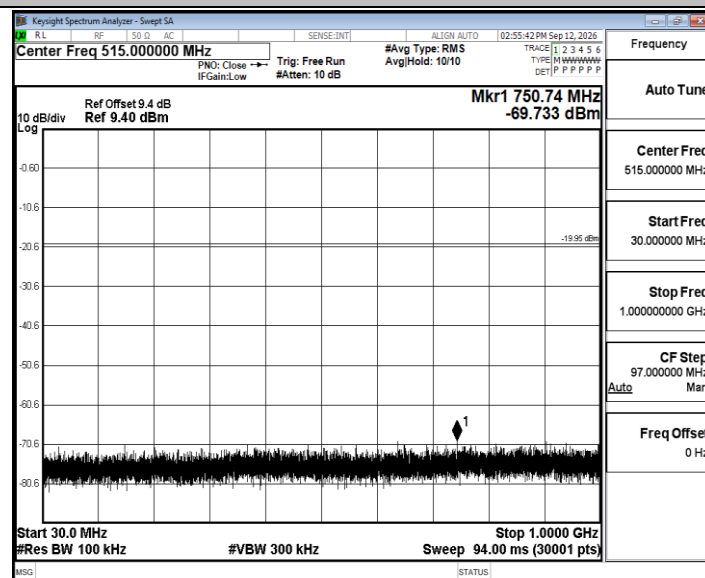
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500