

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: CRUISER CD PLAYER

Test Model: CR3505A-BK

Environmental Conditions

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

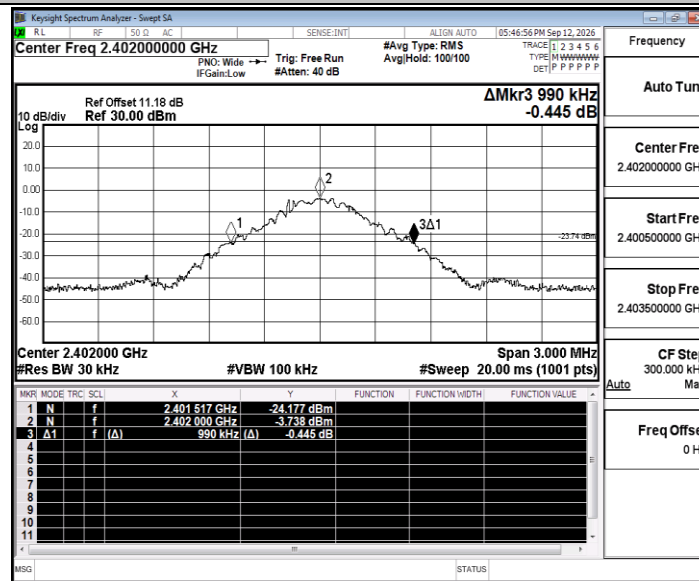
A.1 20dB Emission Bandwidth

Test Result

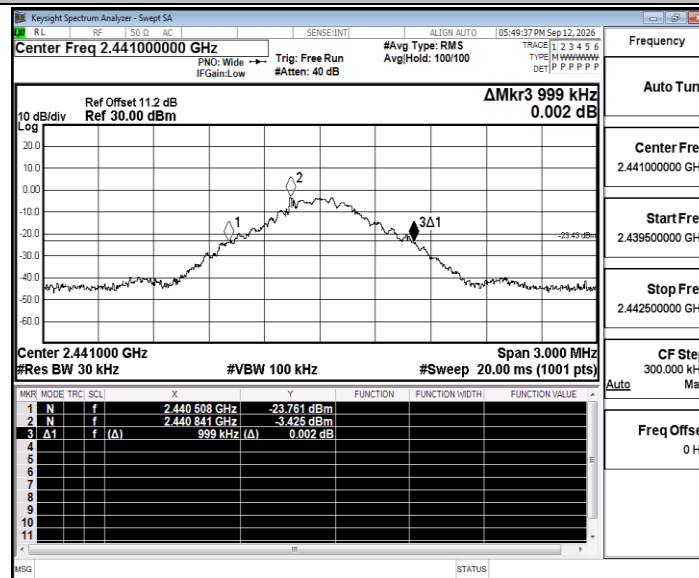
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.990	2401.517	2402.507	---	---
		2441	0.999	2440.508	2441.507	---	---
		2480	1.011	2479.493	2480.504	---	---
2DH5	Ant1	2402	1.317	2401.346	2402.663	---	---
		2441	1.320	2440.346	2441.666	---	---
		2480	1.320	2479.346	2480.666	---	---
3DH5	Ant1	2402	1.293	2401.361	2402.654	---	---
		2441	1.293	2440.361	2441.654	---	---
		2480	1.299	2479.358	2480.657	---	---

Test Graphs

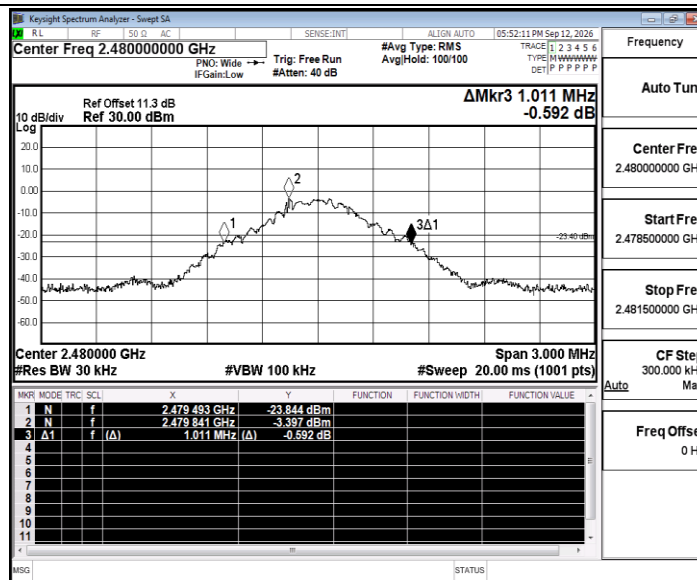
DH5_Ant1_2402



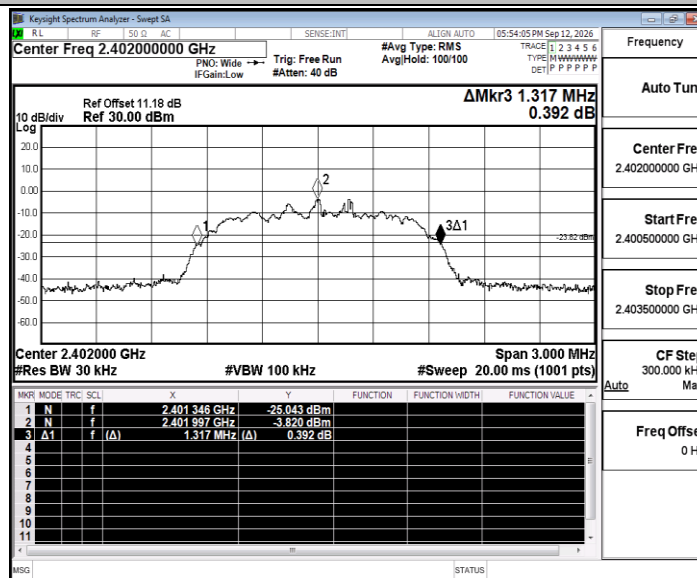
DH5_Ant1_2441



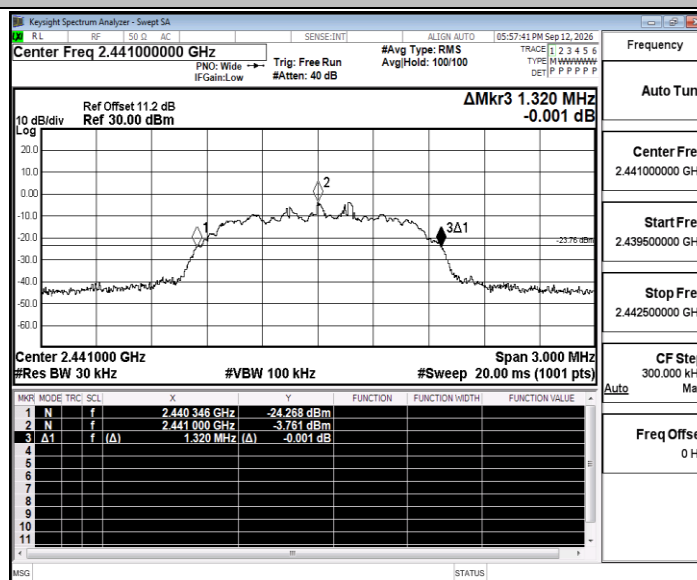
DH5_Ant1_2480



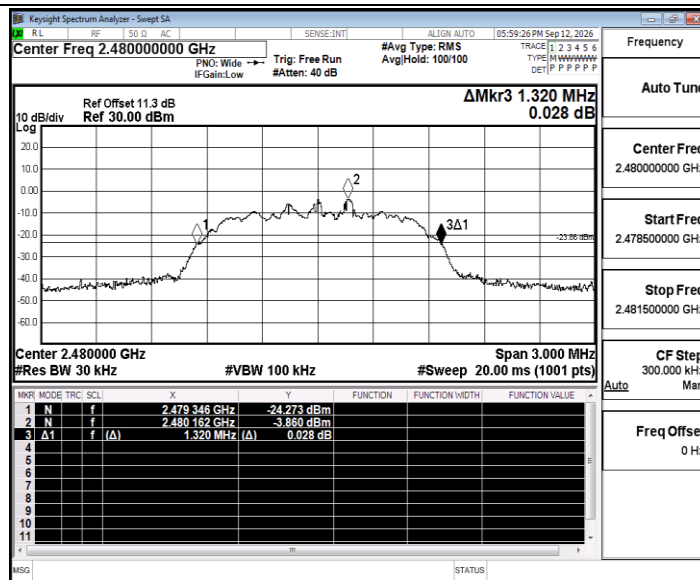
2DH5_Ant1_2402



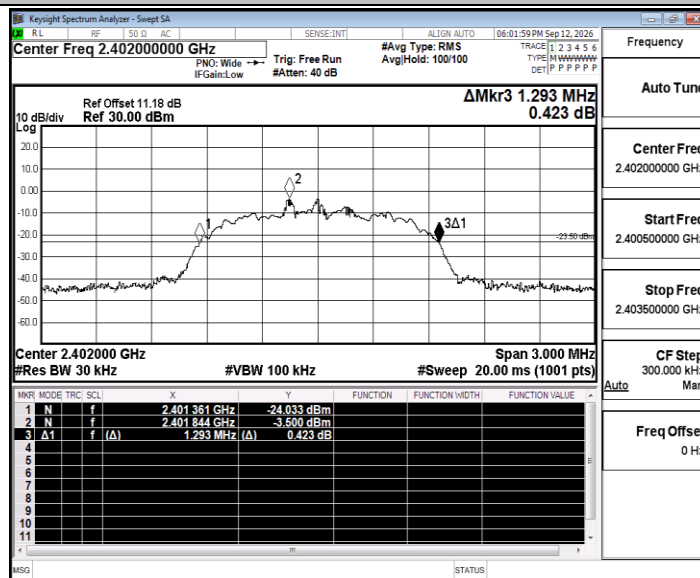
2DH5_Ant1_2441



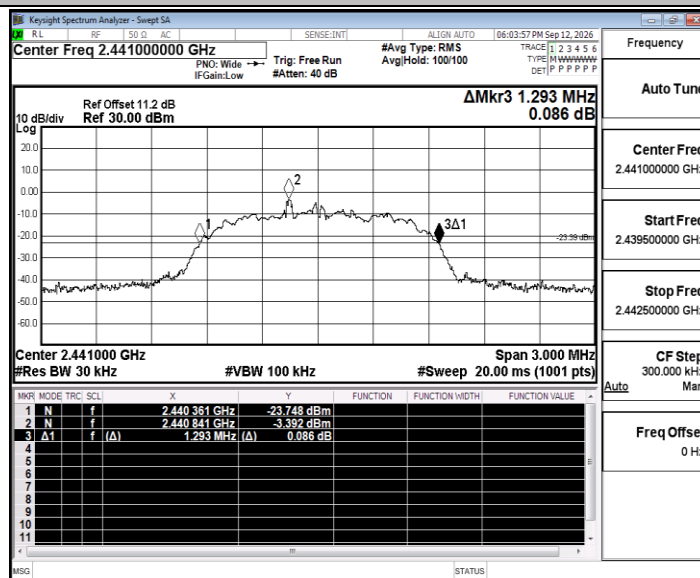
2DH5_Ant1_2480



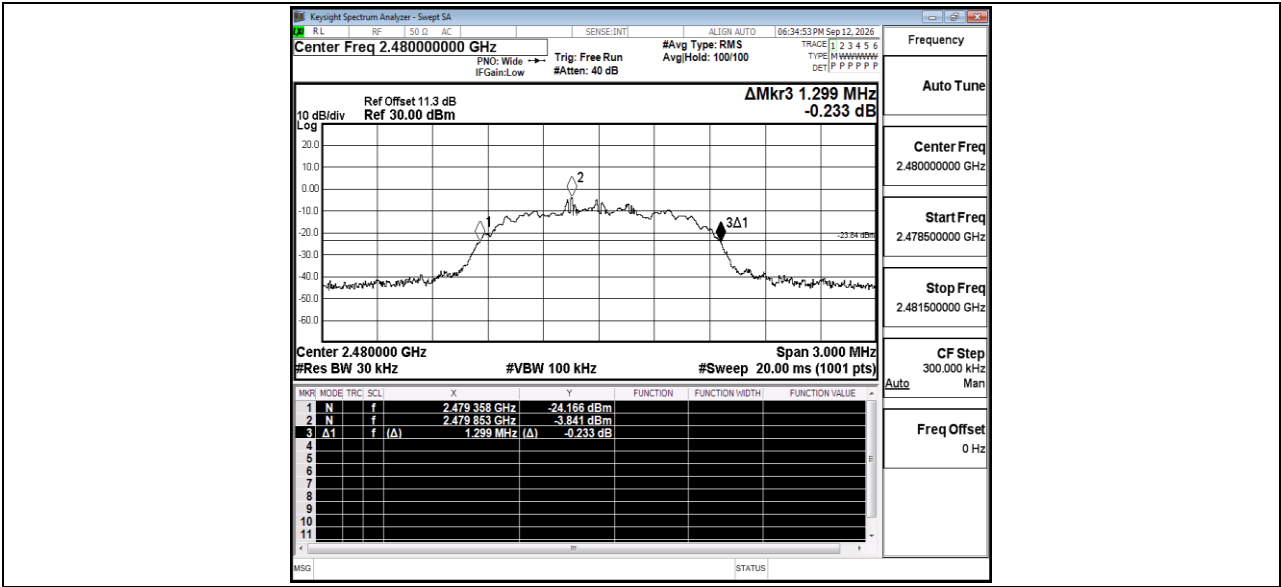
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



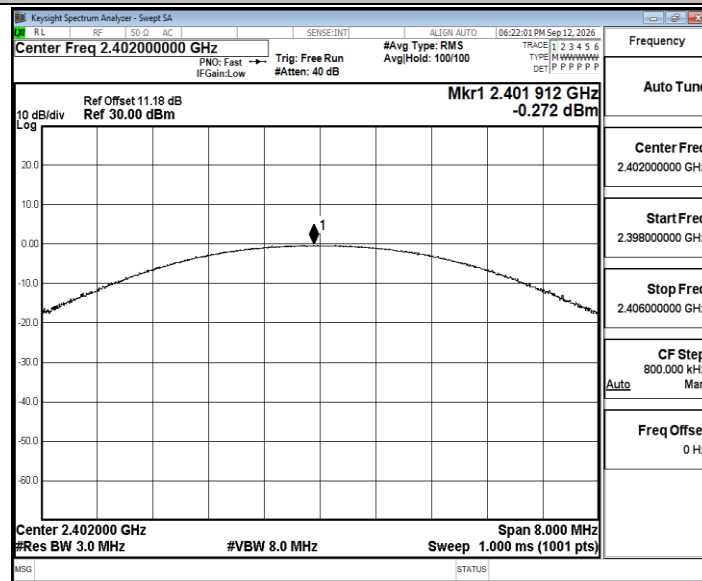
A.2 Maximum Peak conducted output power

Test Result Peak

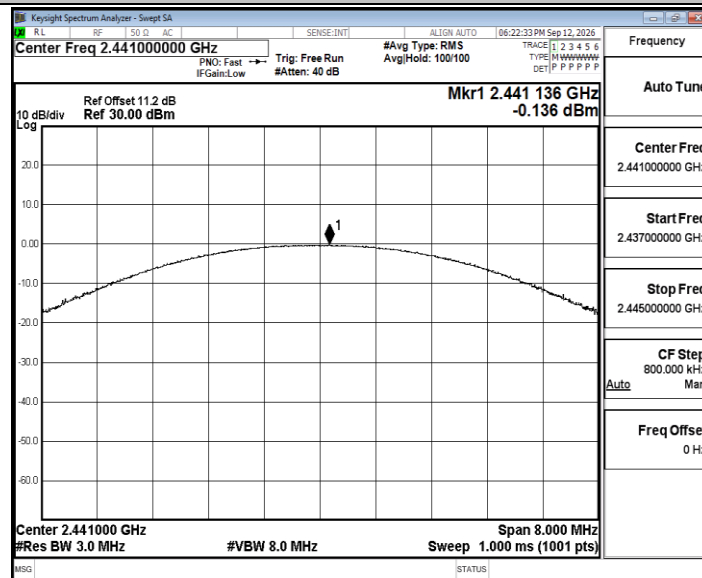
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.27	≤20.97	PASS
		2441	-0.14	≤20.97	PASS
		2480	-0.20	≤20.97	PASS
2DH5	Ant1	2402	0.41	≤20.97	PASS
		2441	0.36	≤20.97	PASS
		2480	0.47	≤20.97	PASS
3DH5	Ant1	2402	0.70	≤30	PASS
		2441	0.69	≤30	PASS
		2480	0.58	≤30	PASS

Test Graphs

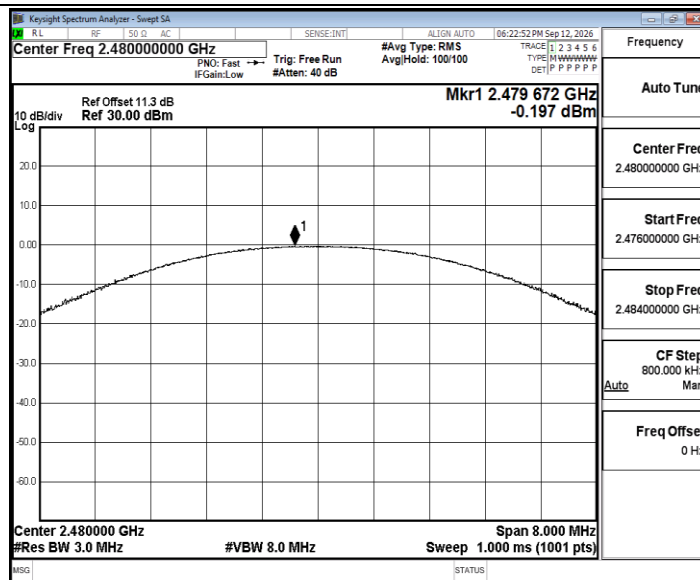
DH5_Ant1_2402



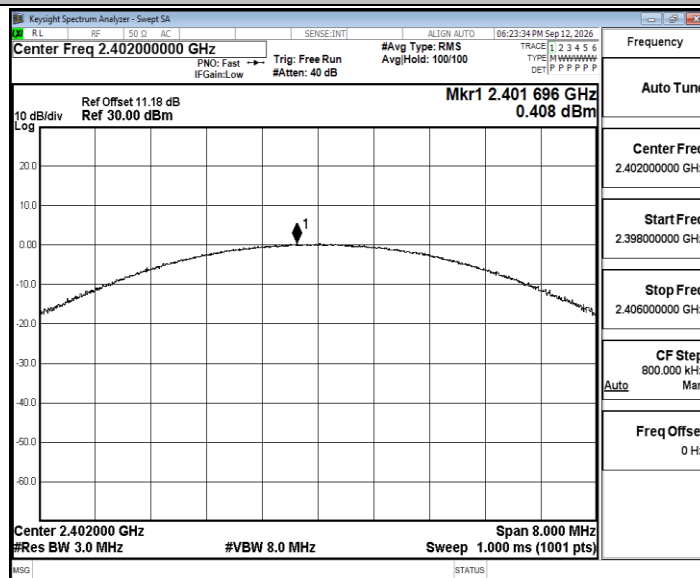
DH5_Ant1_2441



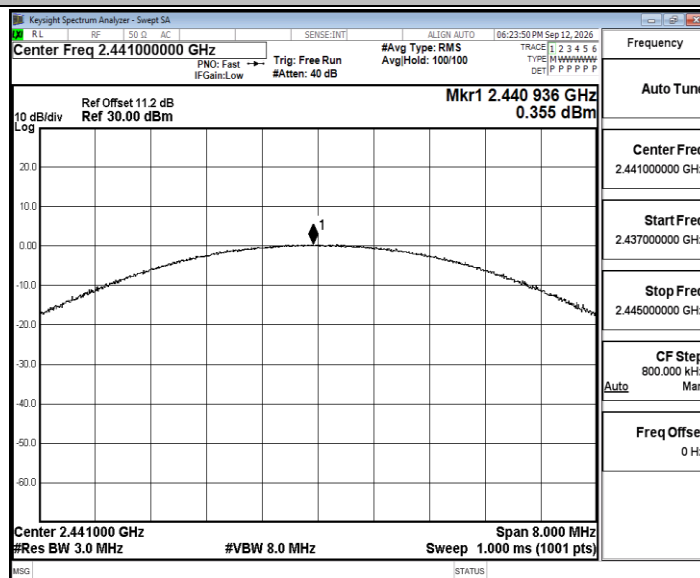
DH5_Ant1_2480



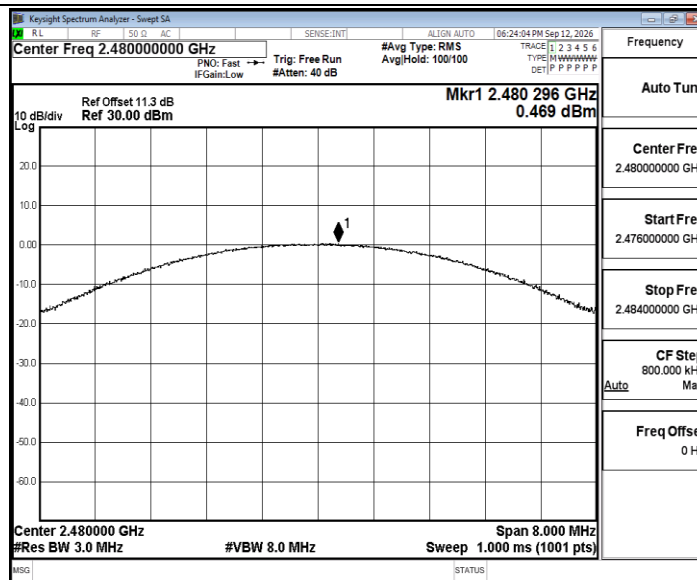
2DH5_Ant1_2402



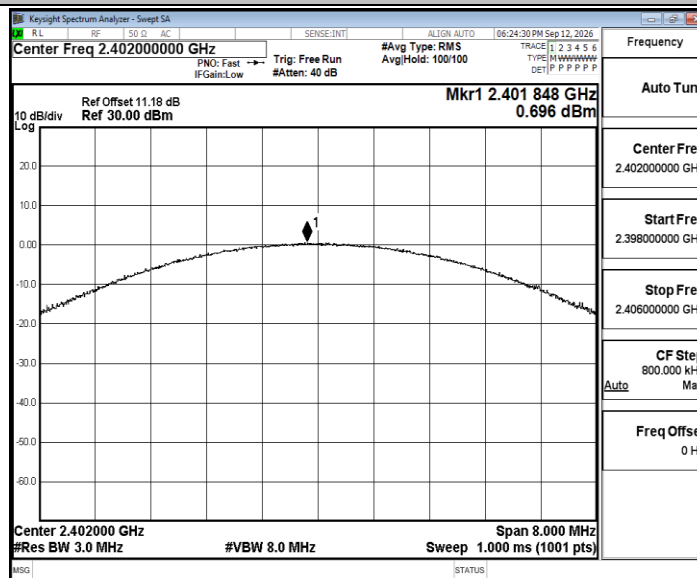
2DH5_Ant1_2441



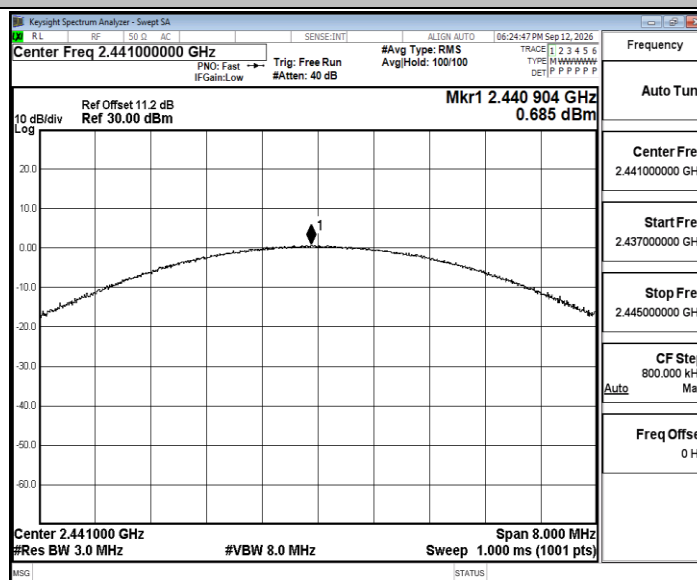
2DH5_Ant1_2480



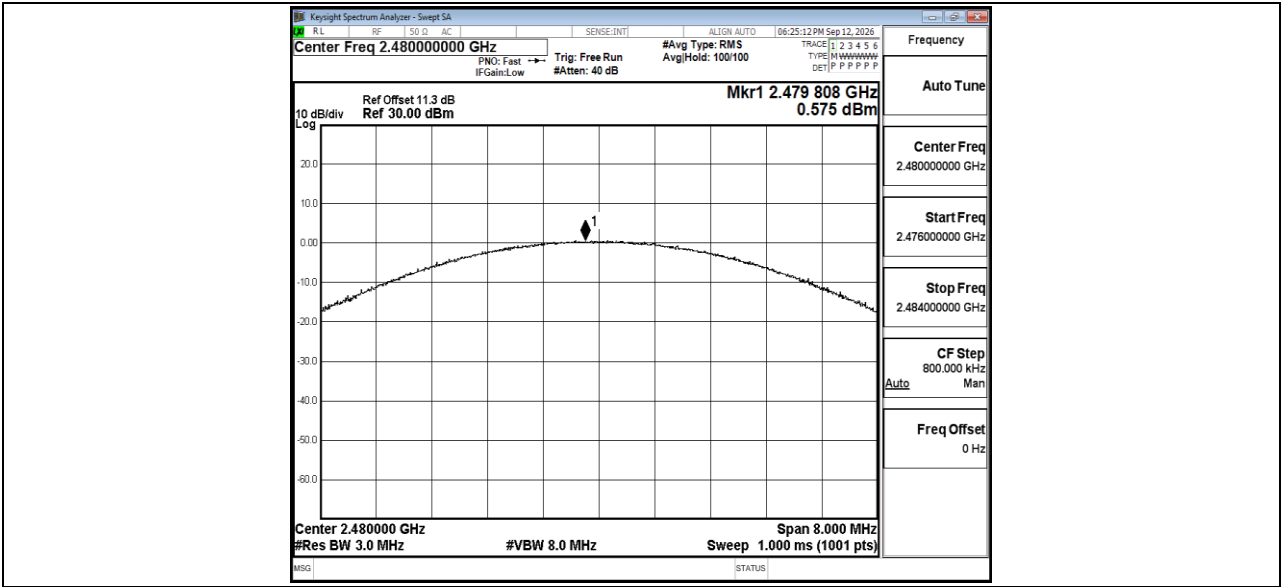
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



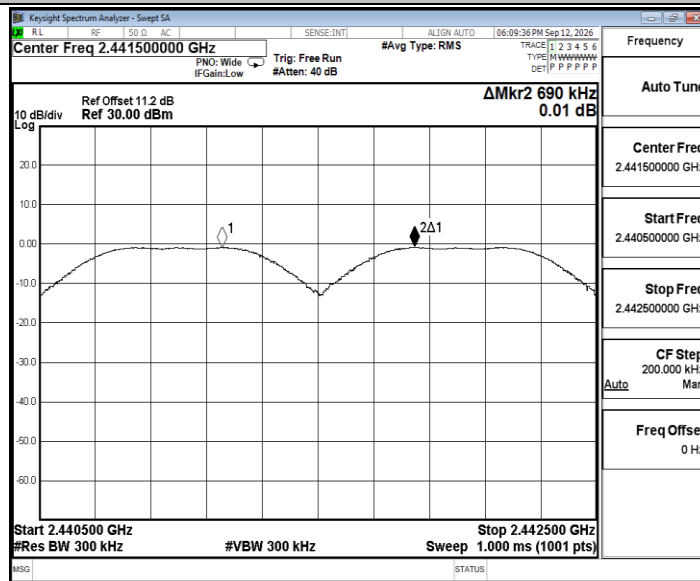
A.3 Carrier frequency separation

Test Result

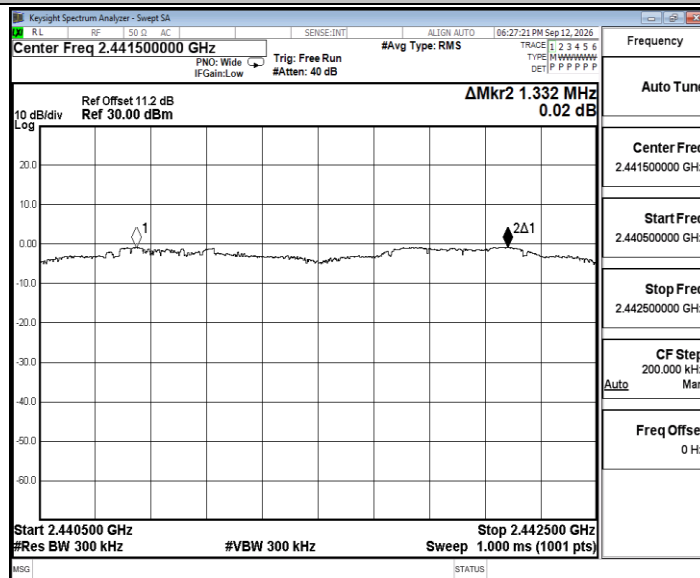
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.69	≥ 0.674	PASS
2DH5	Ant1	Hop	1.332	≥ 0.880	PASS
3DH5	Ant1	Hop	1.302	≥ 0.866	PASS

Test Graphs

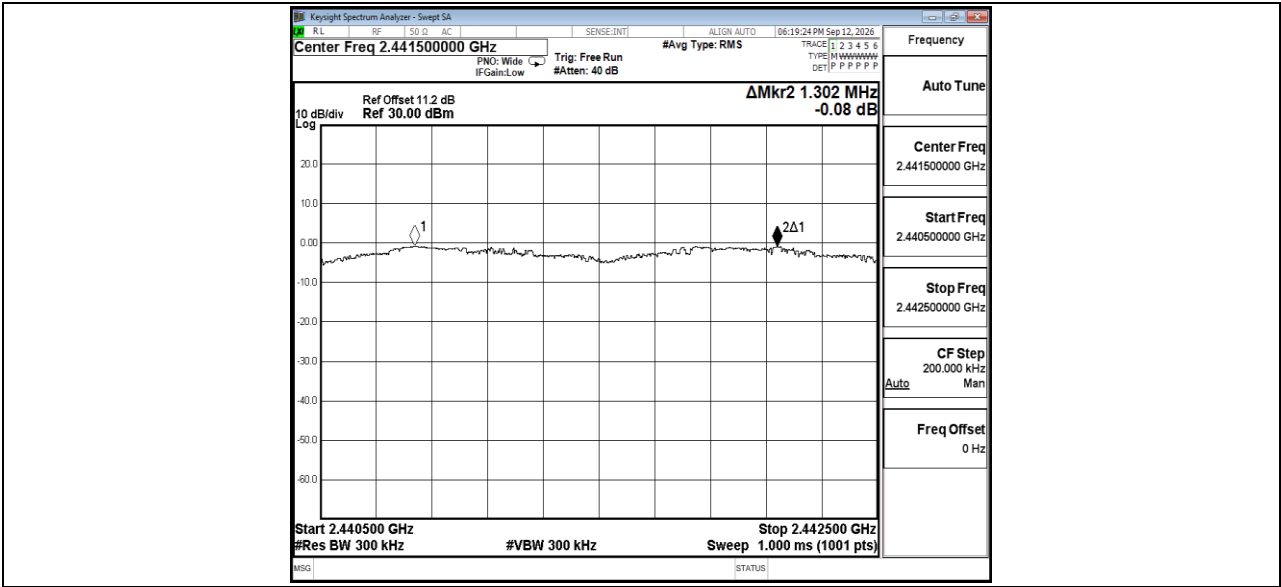
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

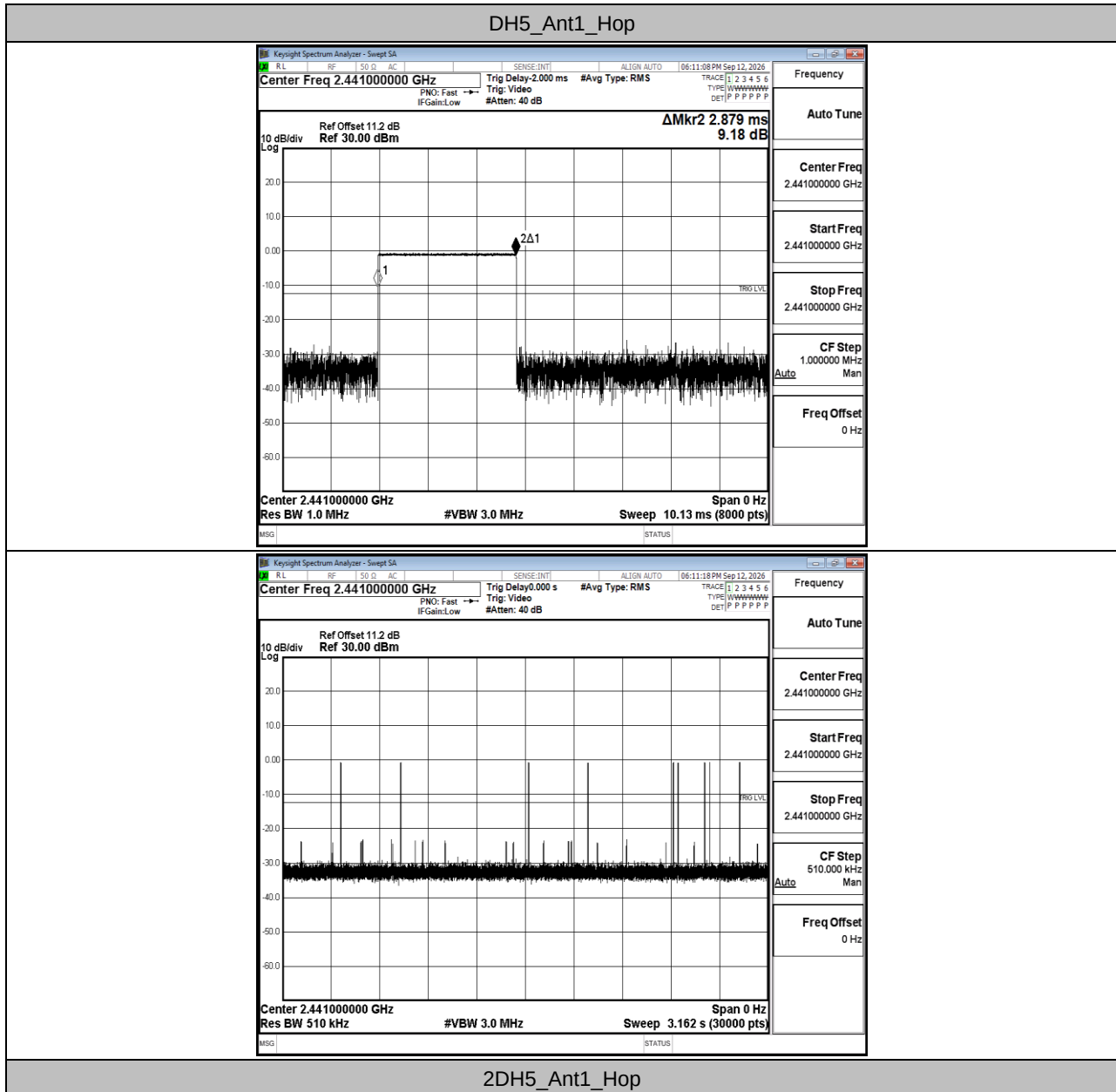


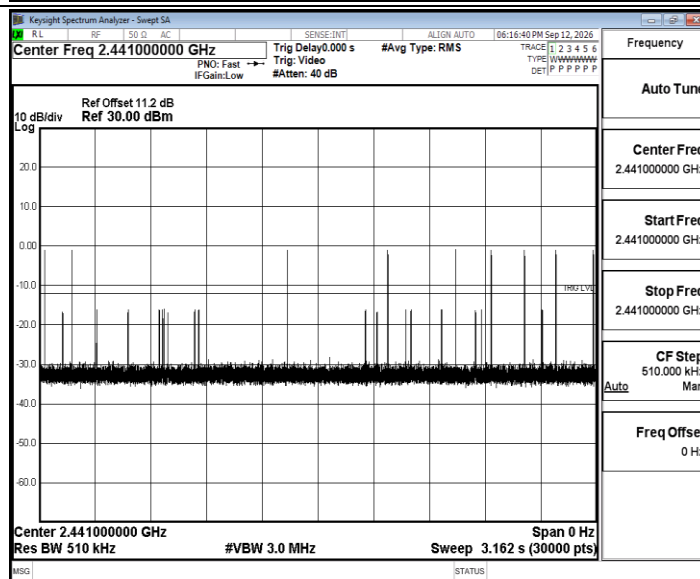
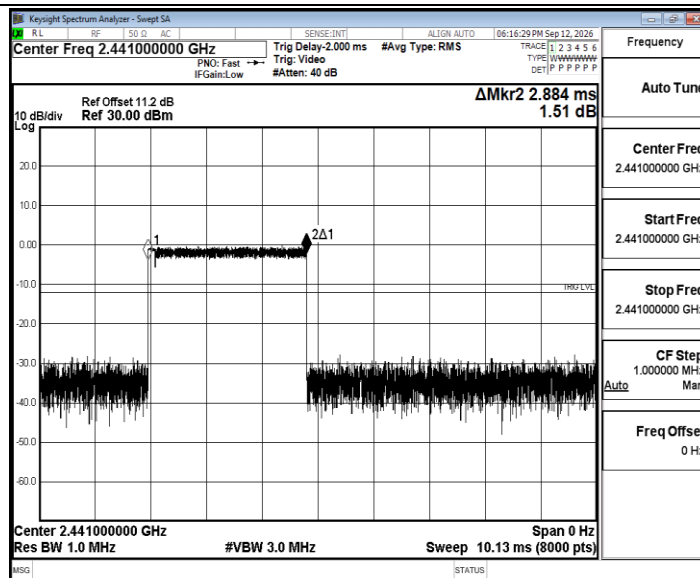
A.4 Time of occupancy

Test Result

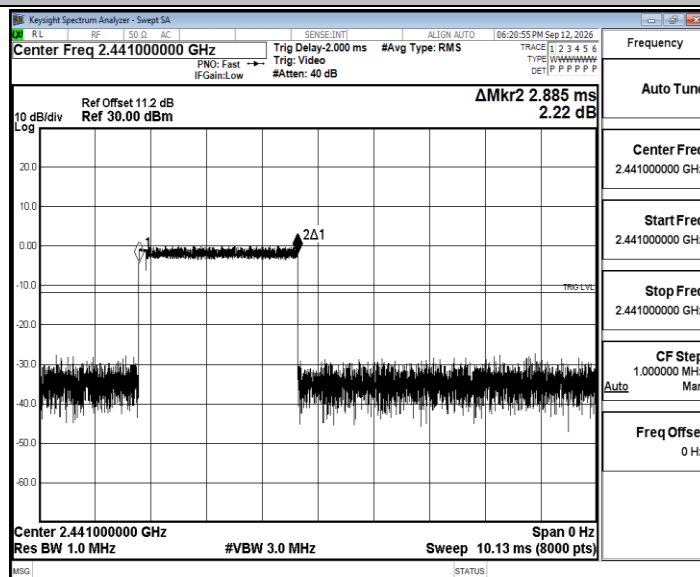
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.879	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.884	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.885	90	0.26	≤0.4	PASS

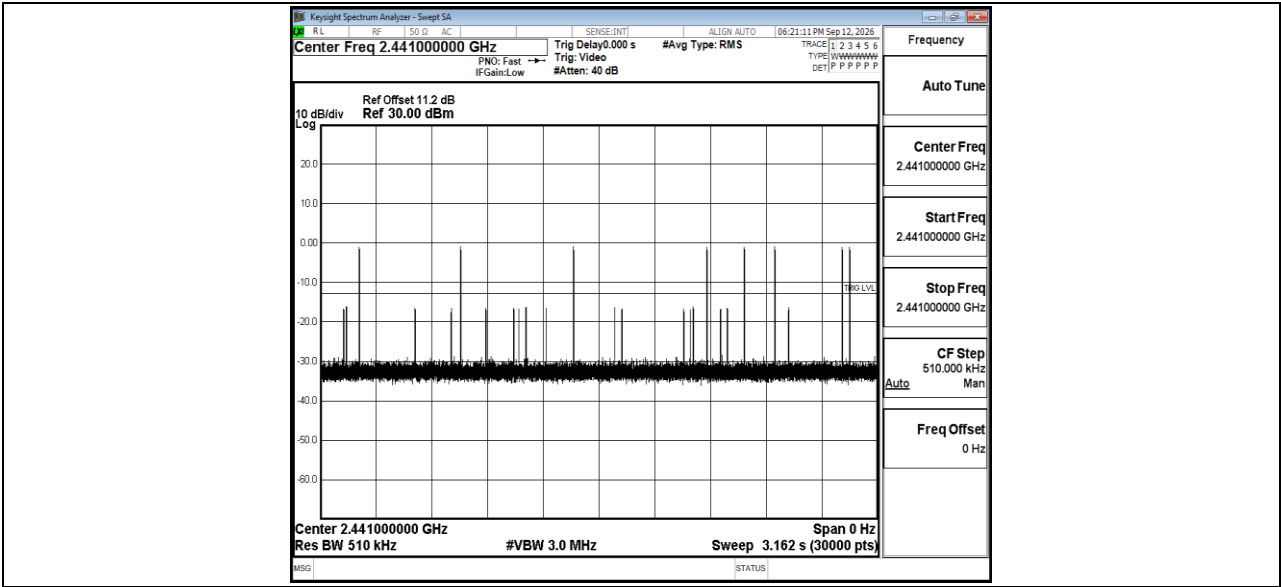
Test Graphs





3DH5_Ant1_Hop



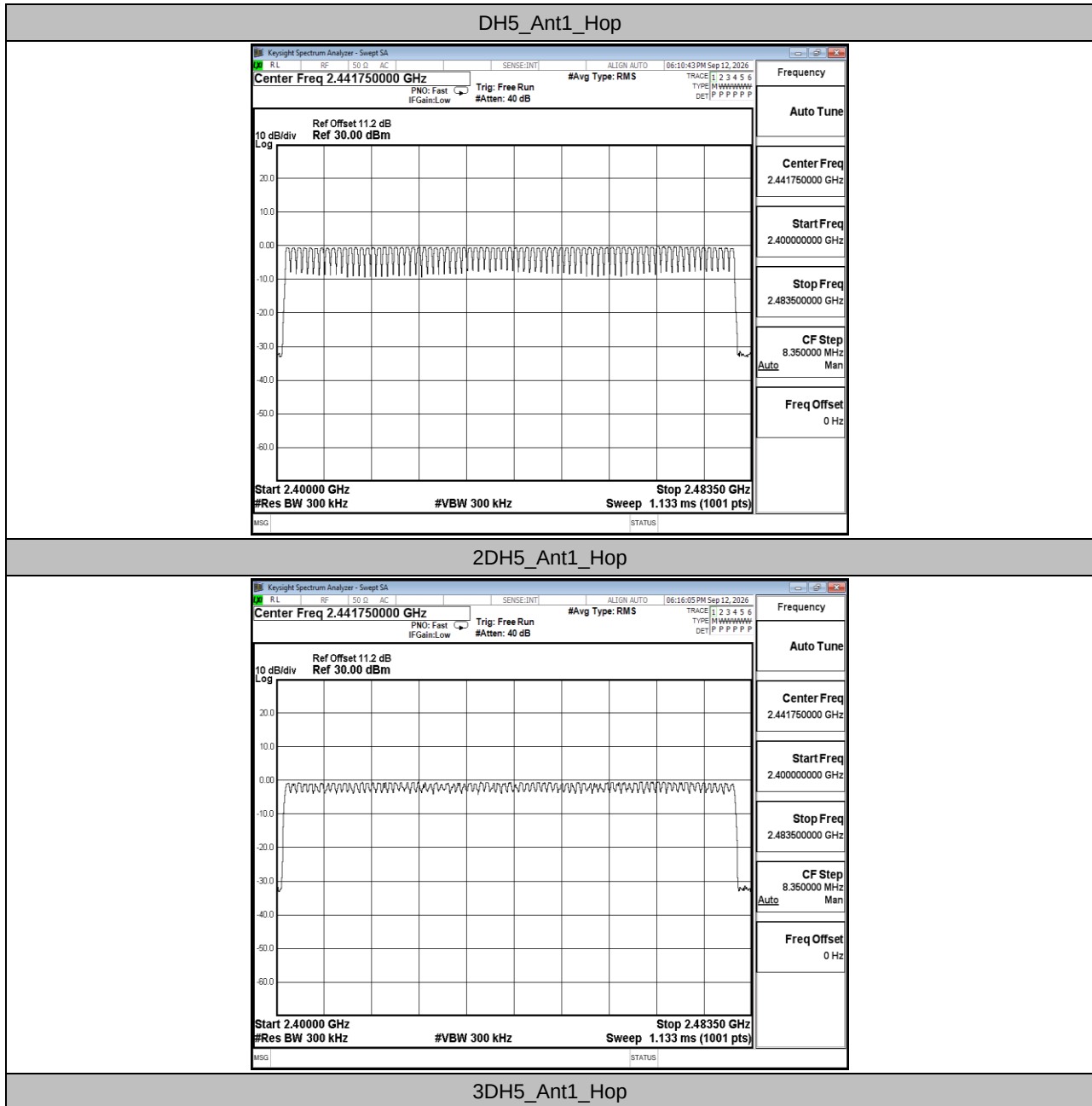


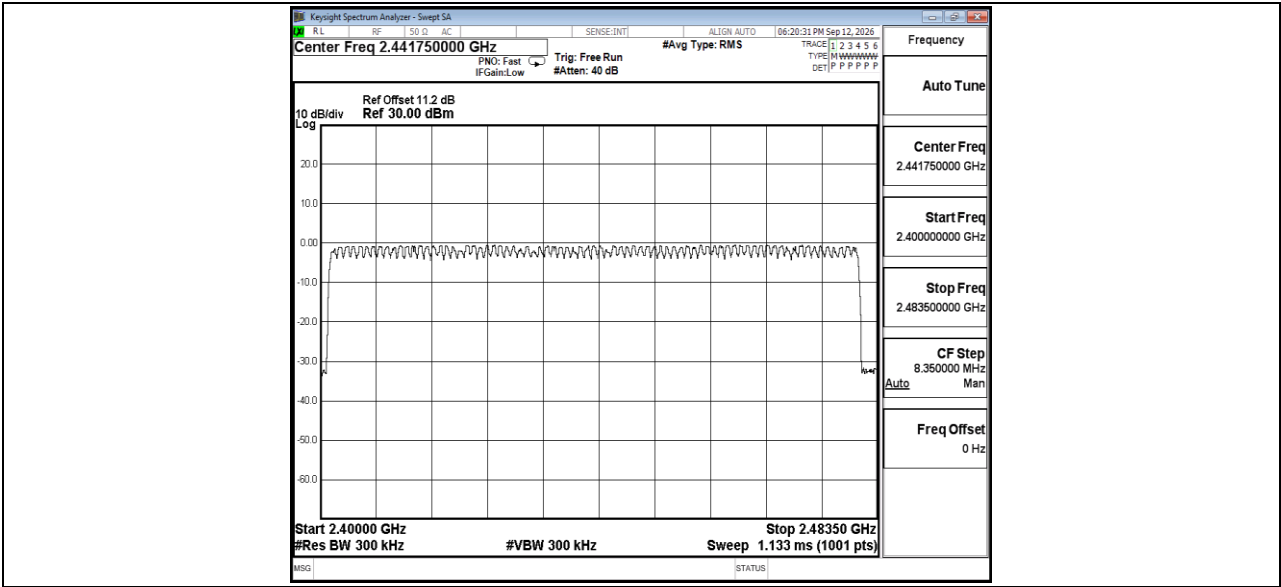
A.5 Number of hopping channels

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





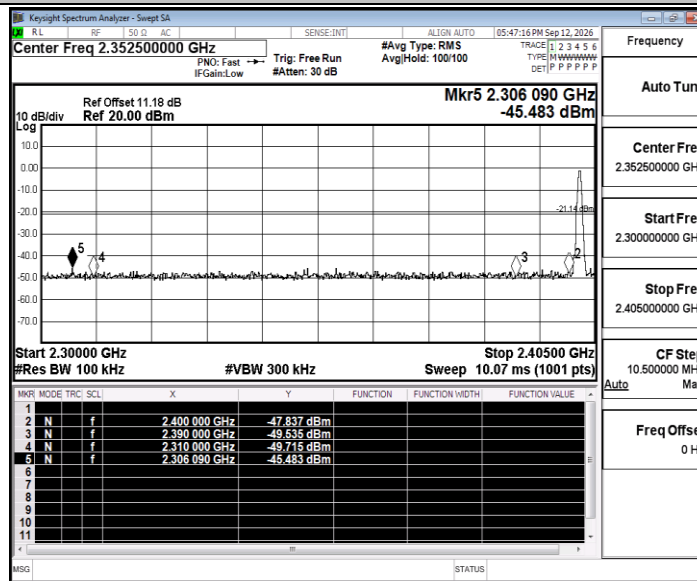
A.6 Band edge measurements

Test Result

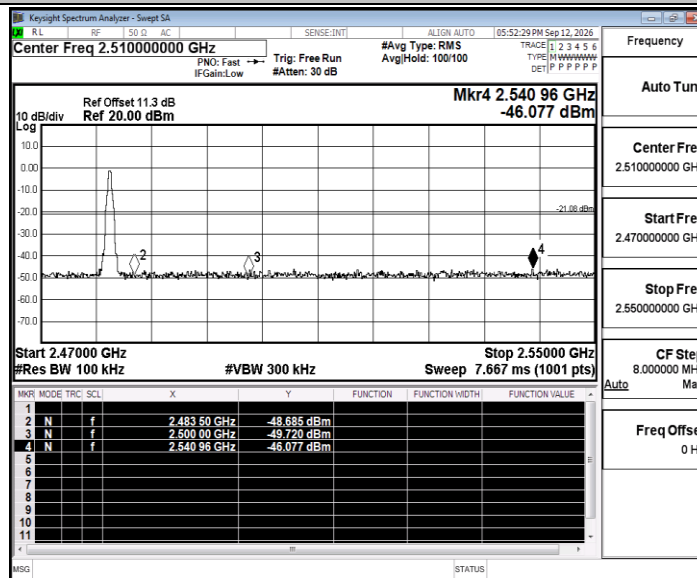
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.14	-45.48	≤-21.14	PASS
		High	2480	-1.08	-46.08	≤-21.08	PASS
		Low	Hop_2402	-1.24	-46.51	≤-21.24	PASS
		High	Hop_2480	-1.39	-44.53	≤-21.39	PASS
2DH5	Ant1	Low	2402	-1.11	-45.59	≤-21.11	PASS
		High	2480	-1.19	-45.85	≤-21.19	PASS
		Low	Hop_2402	-5.88	-46.57	≤-25.88	PASS
		High	Hop_2480	-4.55	-45.75	≤-24.55	PASS
3DH5	Ant1	Low	2402	-1.57	-45.21	≤-21.57	PASS
		High	2480	-1.24	-45.35	≤-21.24	PASS
		Low	Hop_2402	-6.82	-46.26	≤-26.82	PASS
		High	Hop_2480	-0.97	-44.4	≤-20.97	PASS

Test Graphs

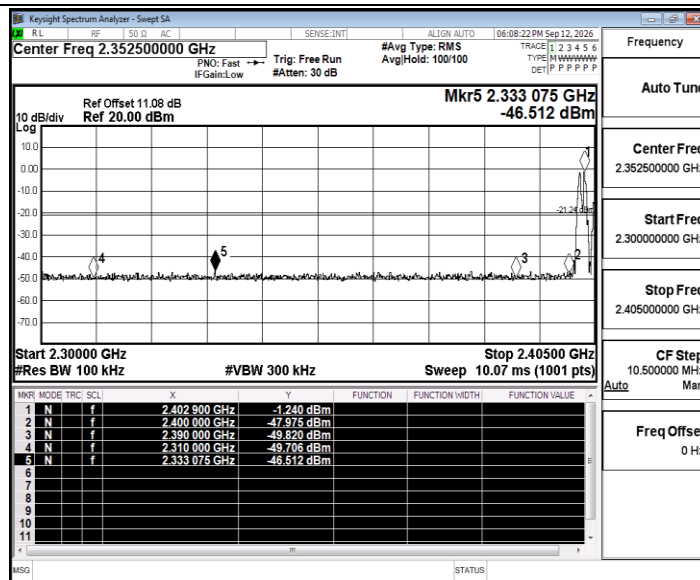
DH5_Ant1_Low_2402



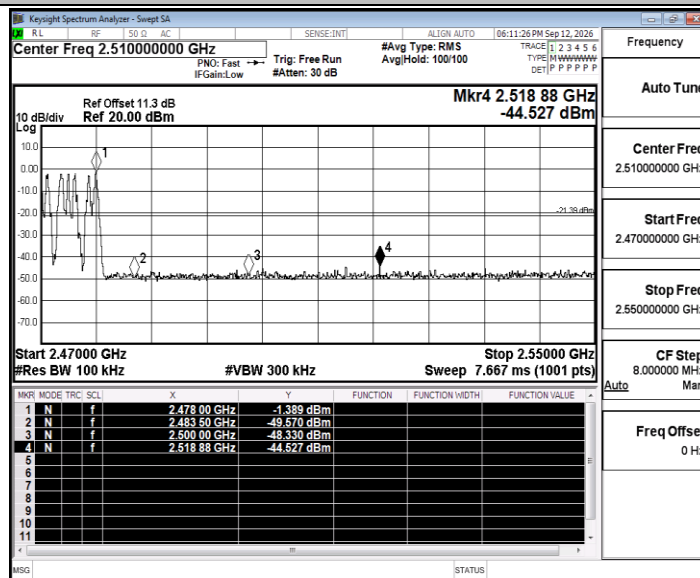
DH5_Ant1_High_2480



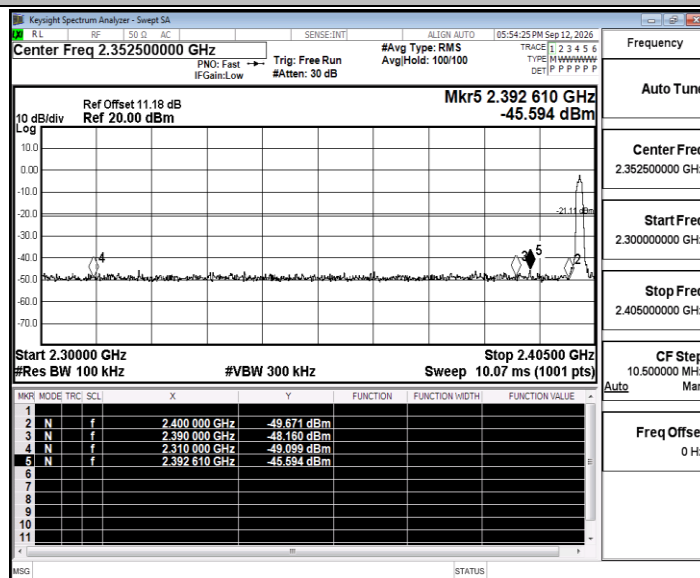
DH5_Ant1_Low_Hop_2402



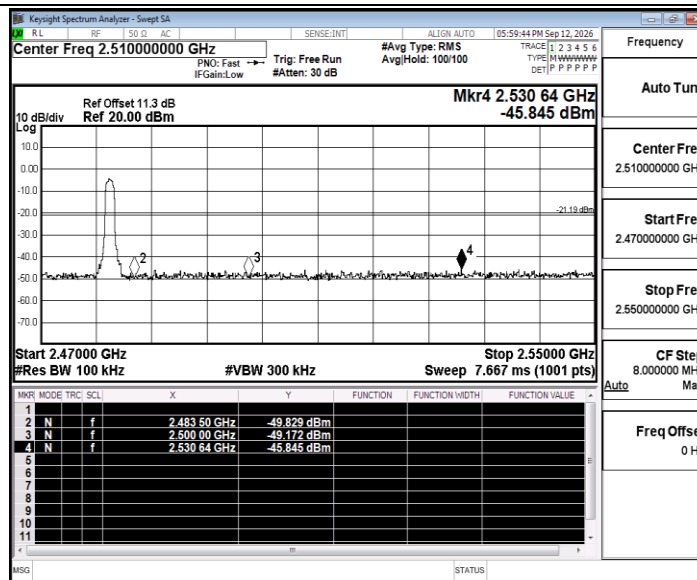
DH5_Ant1_High_Hop_2480



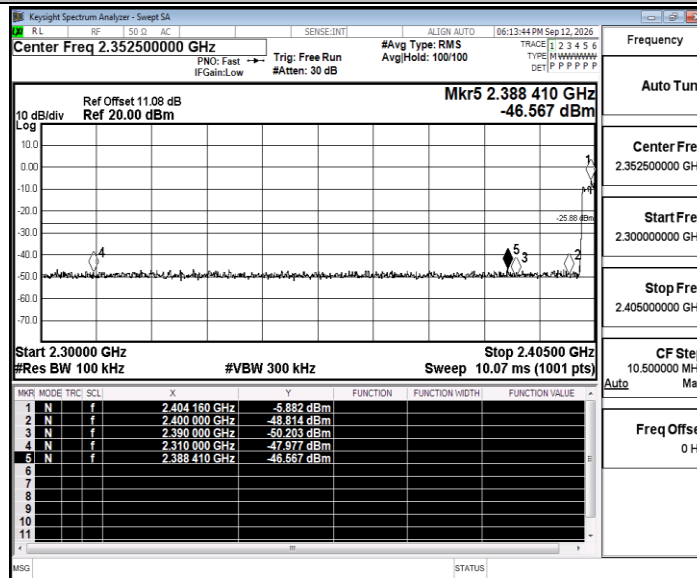
2DH5_Ant1_Low_2402



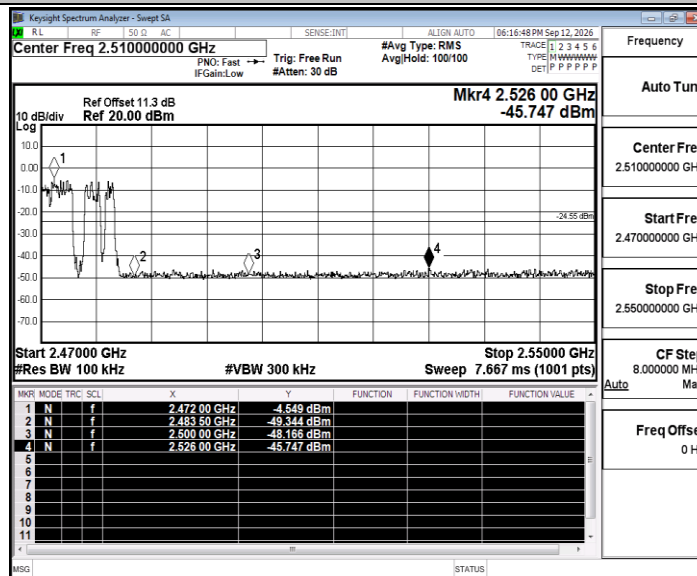
2DH5_Ant1_High_2480



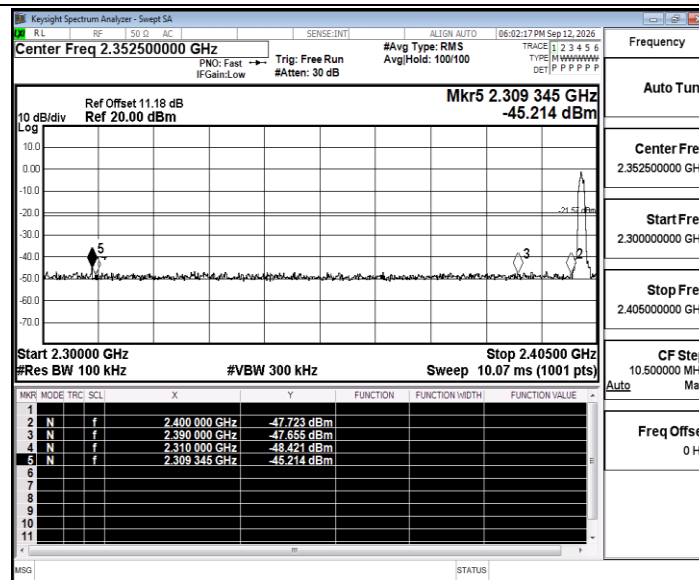
2DH5_Ant1_Low_Hop_2402



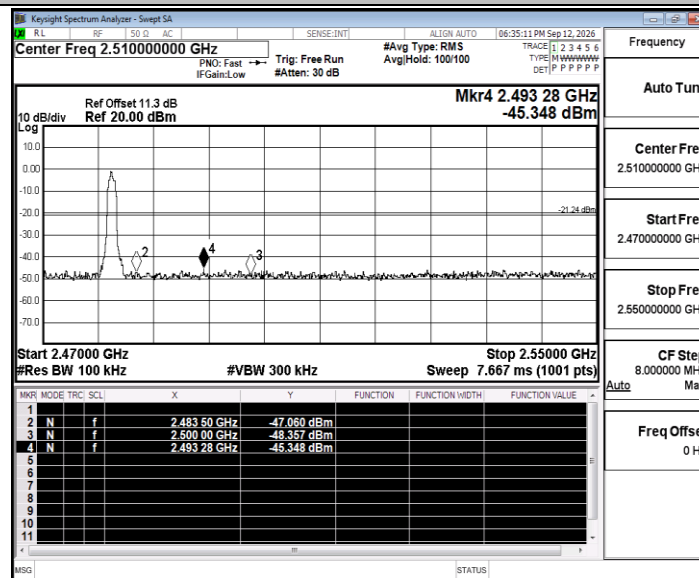
2DH5_Ant1_High_Hop_2480



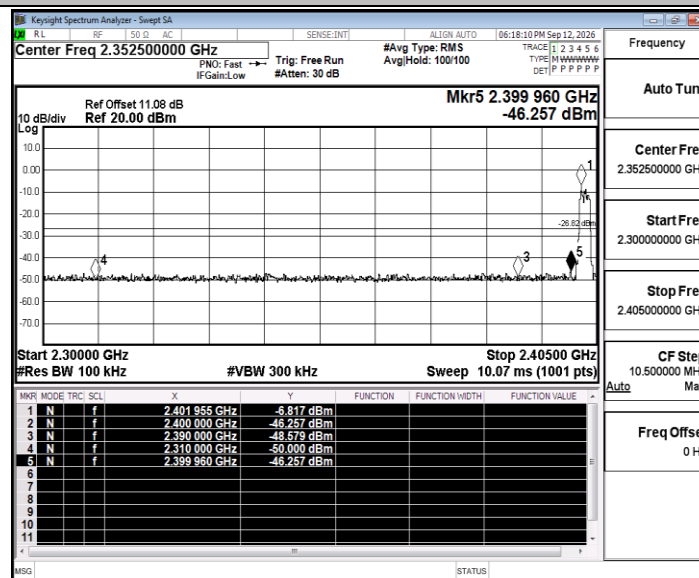
3DH5_Ant1_Low_2402



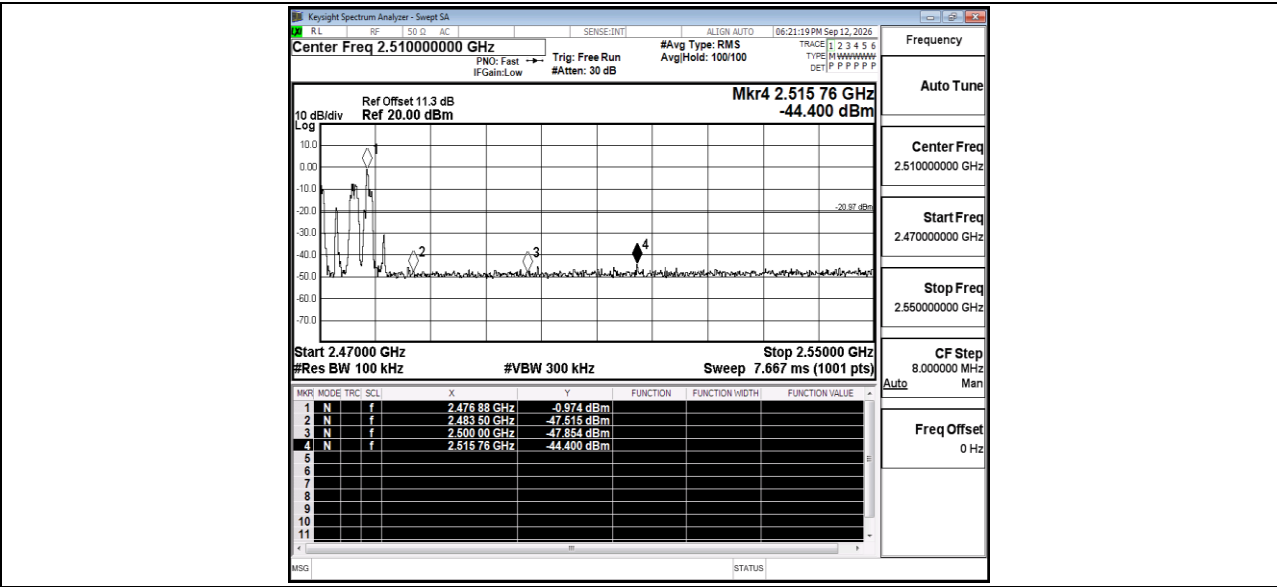
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

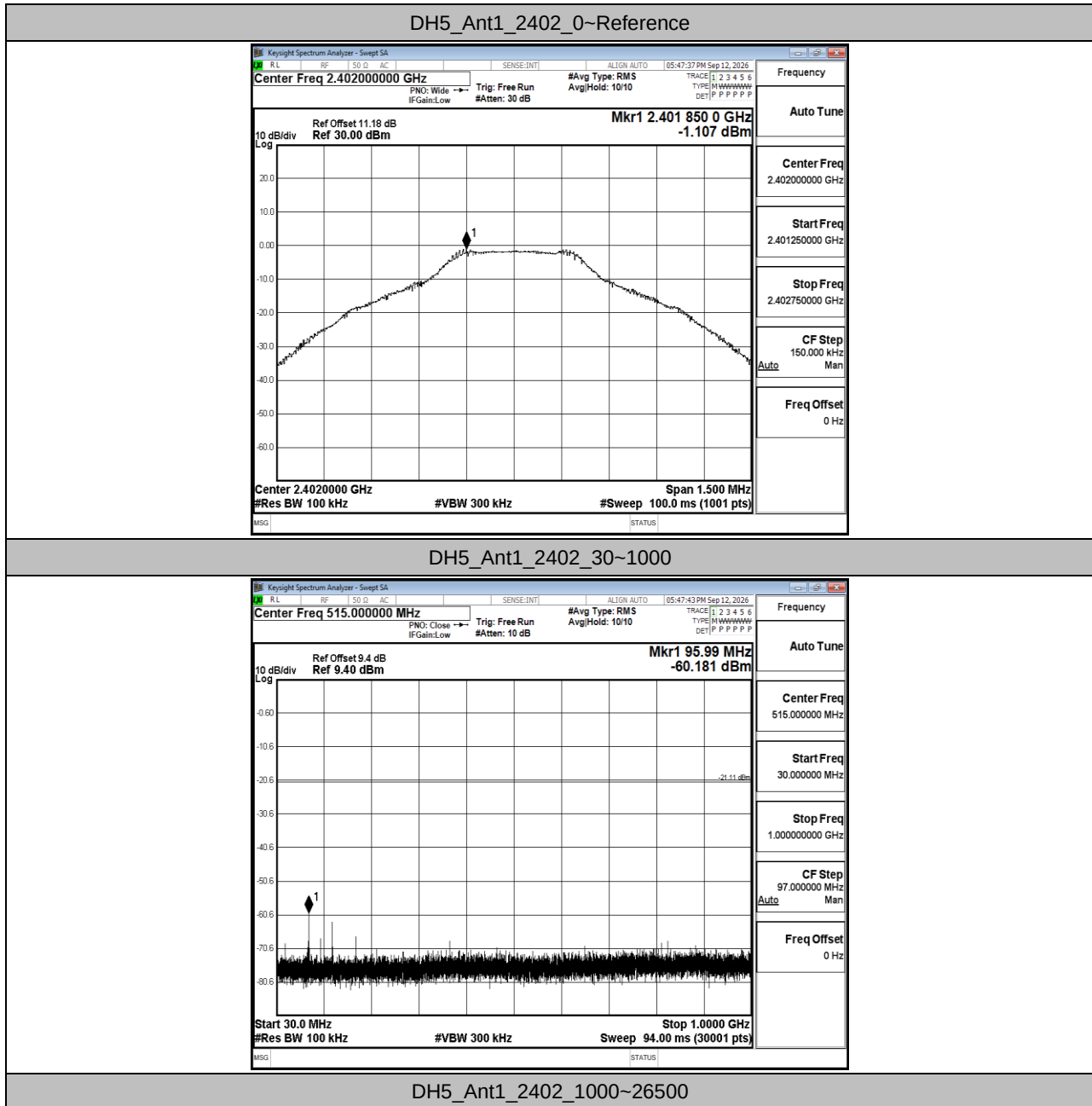


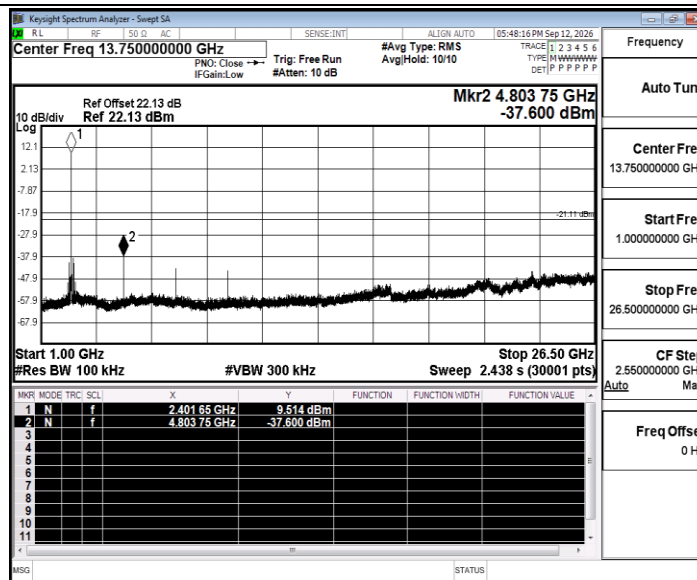
A.7 Conducted Spurious Emission

Test Result

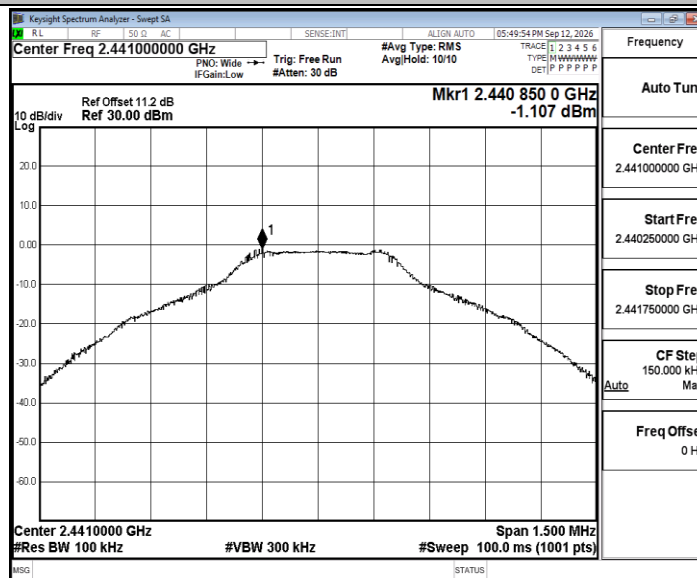
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-60.18	≤-21.11	PASS
			1000~26500	-1.11	-37.6	≤-21.11	PASS
		2441	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-60.72	≤-21.11	PASS
			1000~26500	-1.11	-37.73	≤-21.11	PASS
		2480	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-44.77	≤-21.06	PASS
			1000~26500	-1.06	-37.79	≤-21.06	PASS
2DH5	Ant1	2402	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-59.35	≤-21.09	PASS
			1000~26500	-1.09	-41.75	≤-21.09	PASS
		2441	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-60.98	≤-21.05	PASS
			1000~26500	-1.05	-40.01	≤-21.05	PASS
		2480	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-61.09	≤-21.04	PASS
			1000~26500	-1.04	-41.26	≤-21.04	PASS
3DH5	Ant1	2402	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-44.8	≤-21.1	PASS
			1000~26500	-1.10	-41.01	≤-21.1	PASS
		2441	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-61.48	≤-21.04	PASS
			1000~26500	-1.04	-37.1	≤-21.04	PASS
		2480	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-61.36	≤-21.08	PASS
			1000~26500	-1.08	-39.07	≤-21.08	PASS

Test Graphs

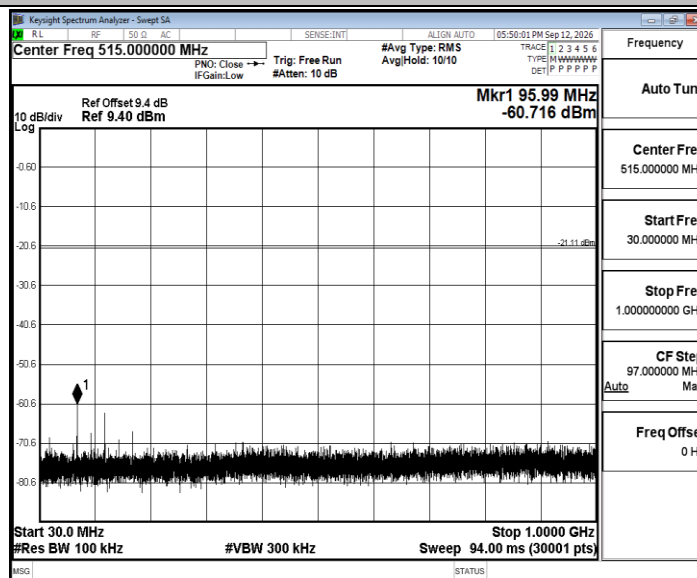




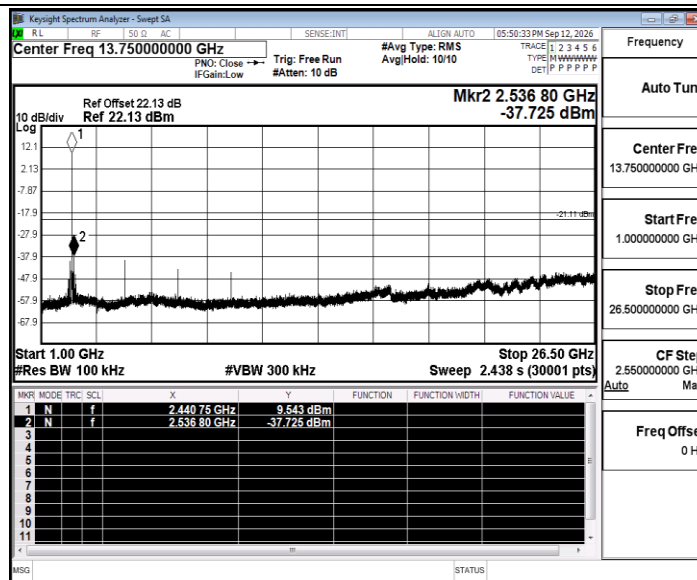
DH5_Ant1_2441_0~Reference



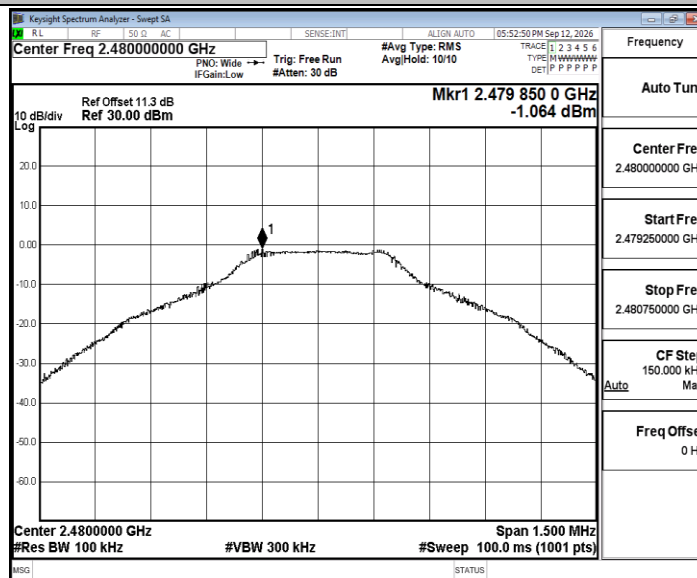
DH5_Ant1_2441_30~1000



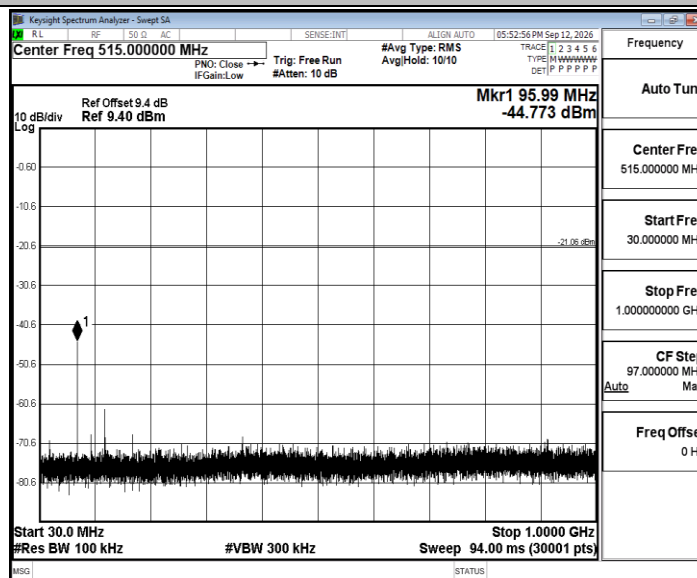
DH5_Ant1_2441_1000~26500



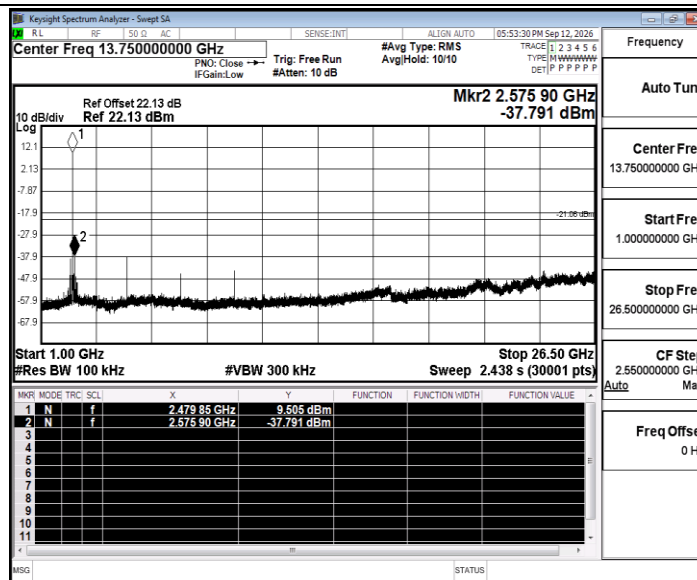
DH5_Ant1_2480_0-Reference



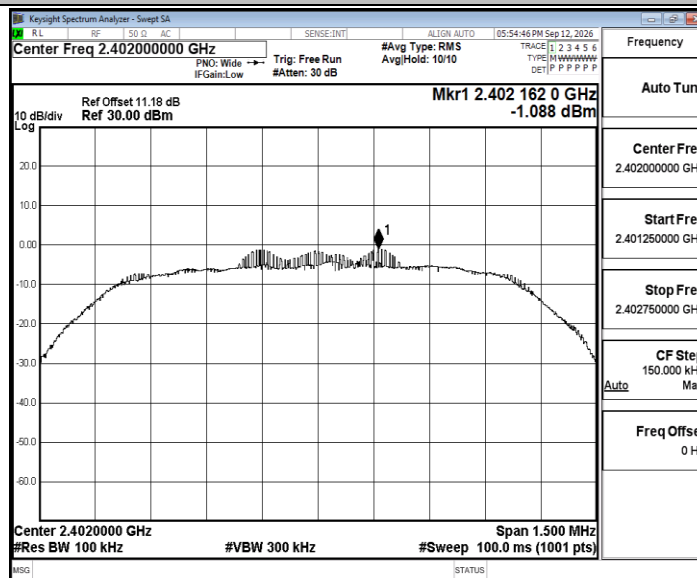
DH5_Ant1_2480_30~1000



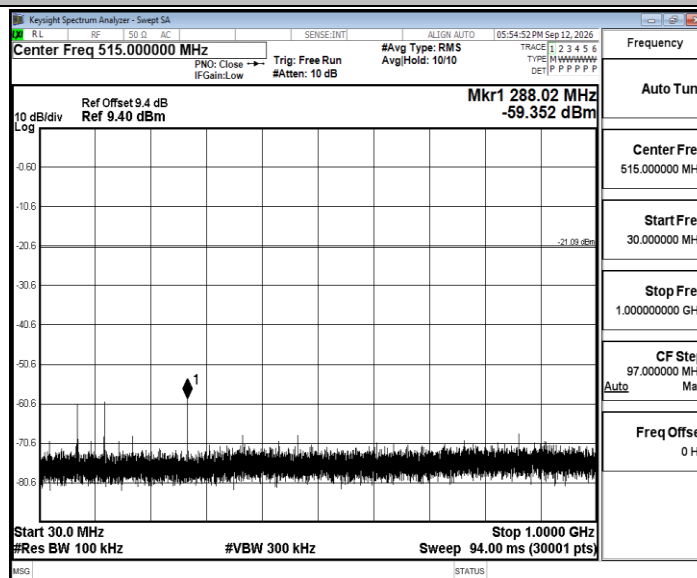
DH5_Ant1_2480_1000~26500



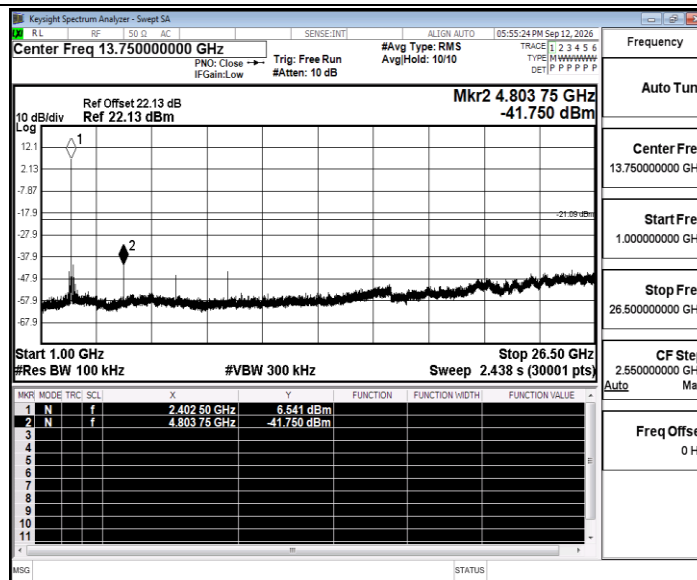
2DH5_Ant1_2402_0~Reference



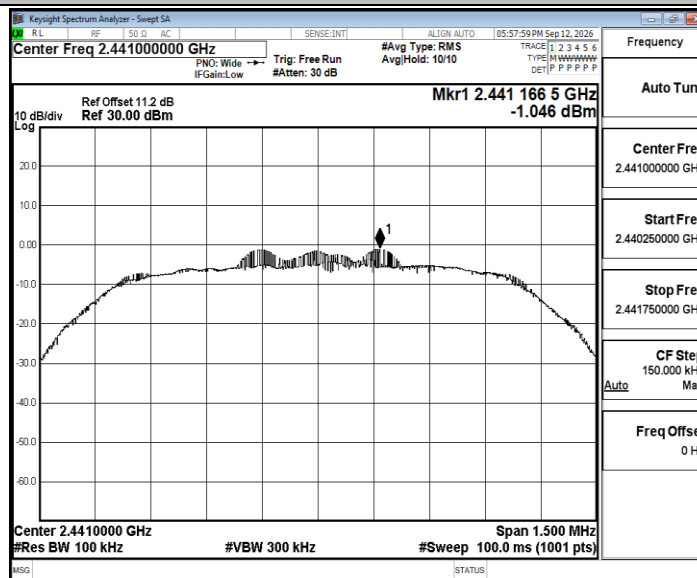
2DH5_Ant1_2402_30~1000



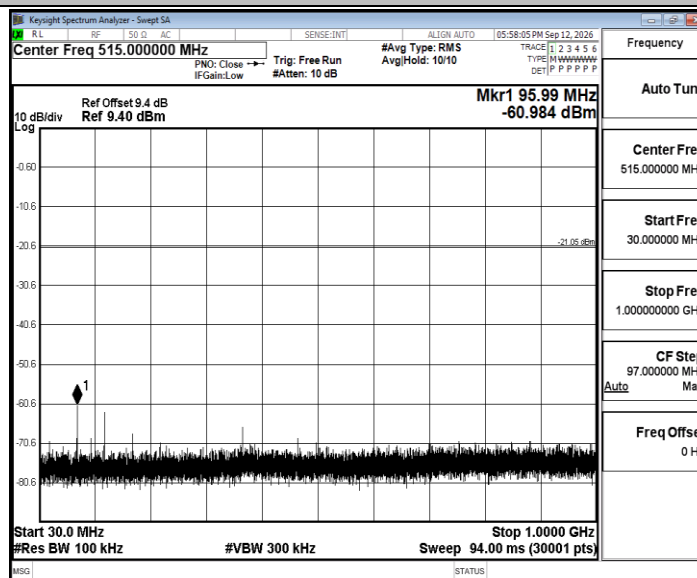
2DH5_Ant1_2402_1000~26500



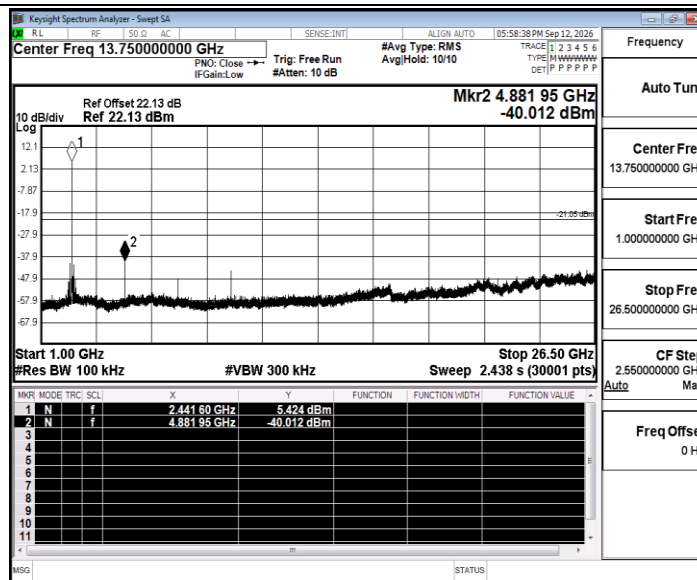
2DH5_Ant1_2441_0~Reference



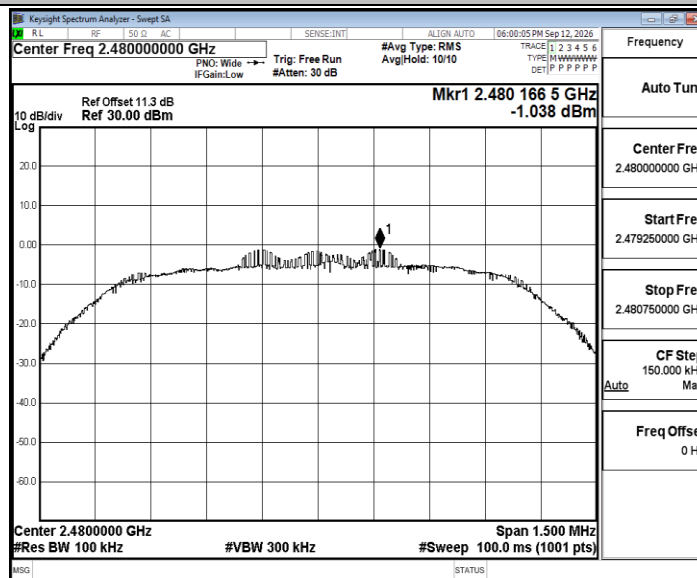
2DH5_Ant1_2441_30~1000



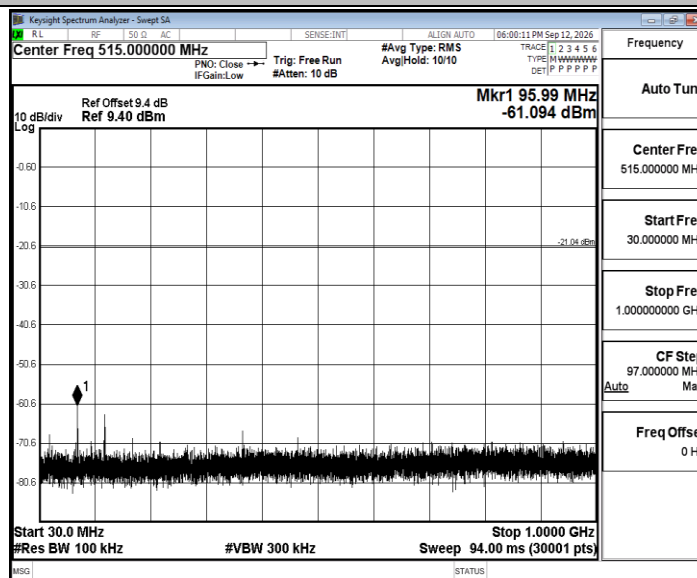
2DH5_Ant1_2441_1000~26500



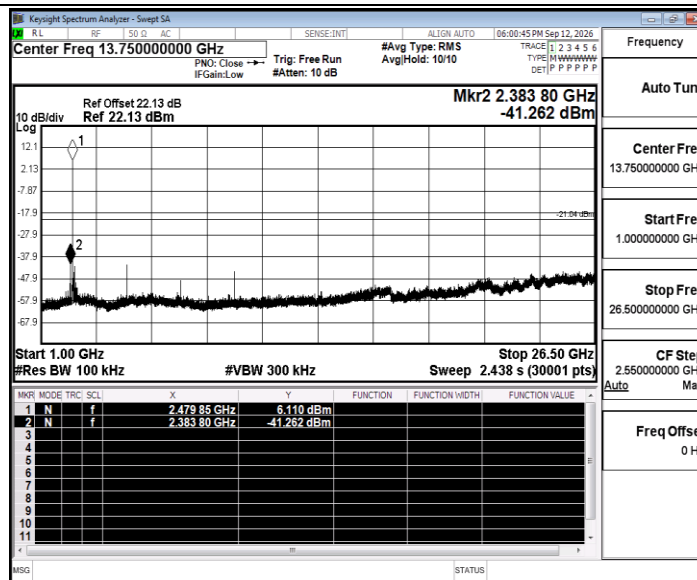
2DH5_Ant1_2480_0~Reference



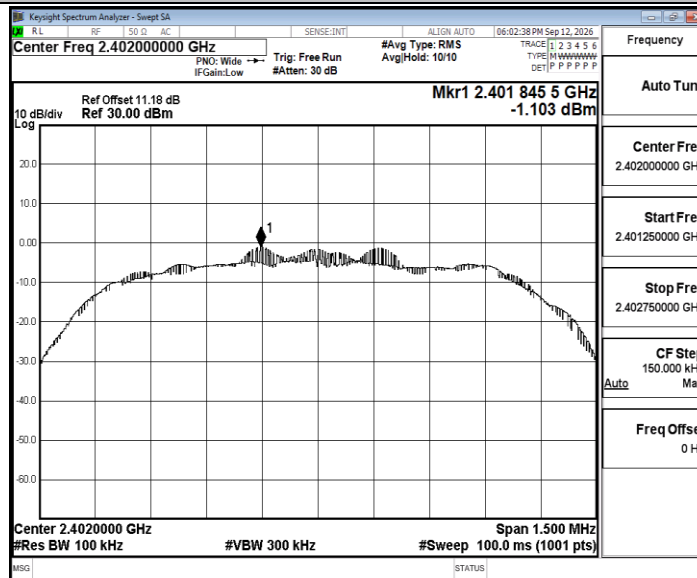
2DH5_Ant1_2480_30~1000



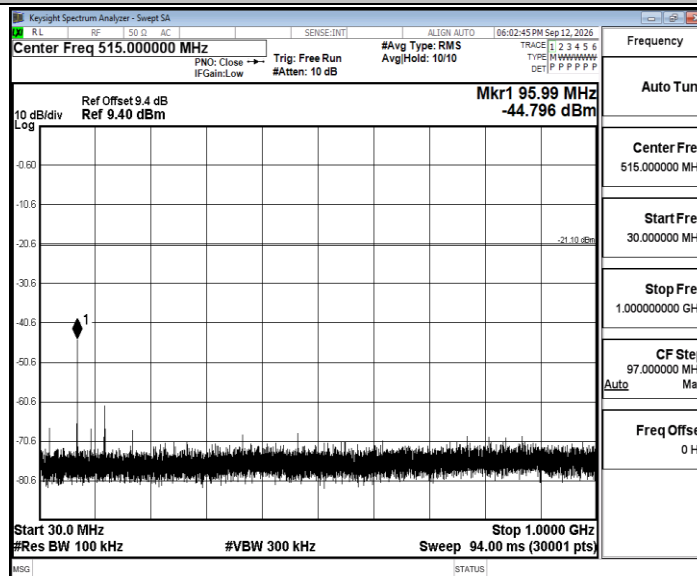
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500