

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Car Radio

Test Model: A5

Environmental Conditions

Temperature:	26.2°C
Relative Humidity:	57.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

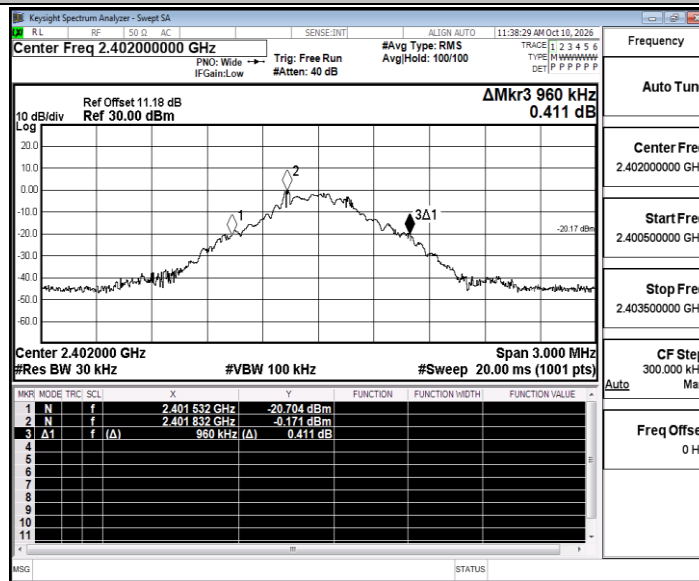
A.1 20dB Emission Bandwidth

Test Result

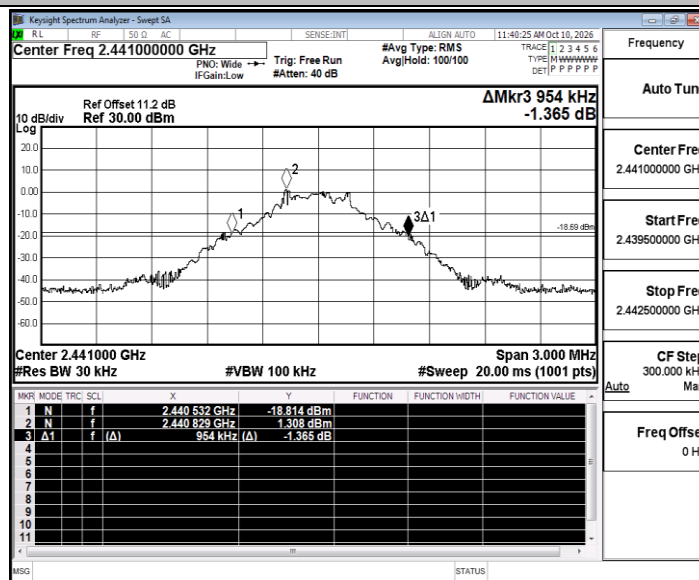
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.960	2401.532	2402.492	---	---
		2441	0.954	2440.532	2441.486	---	---
		2480	0.966	2479.532	2480.498	---	---
2DH5	Ant1	2402	1.293	2401.355	2402.648	---	---
		2441	1.305	2440.340	2441.645	---	---
		2480	1.284	2479.361	2480.645	---	---
3DH5	Ant1	2402	1.299	2401.343	2402.642	---	---
		2441	1.299	2440.343	2441.642	---	---
		2480	1.302	2479.343	2480.645	---	---

Test Graphs

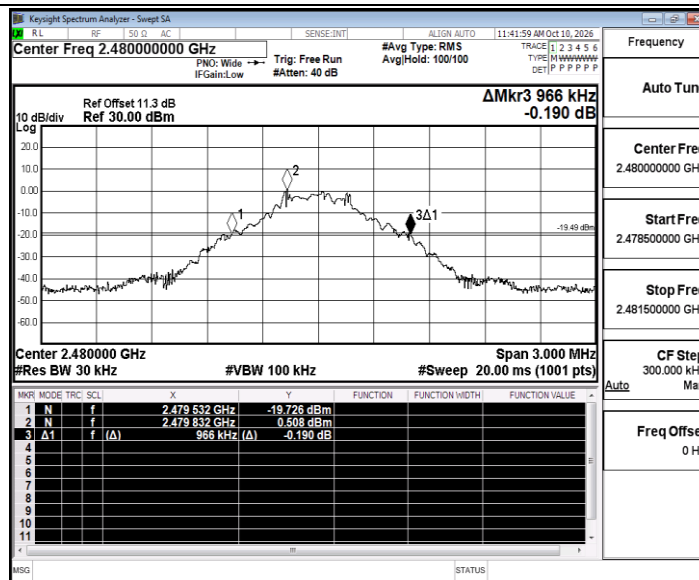
DH5_Ant1_2402



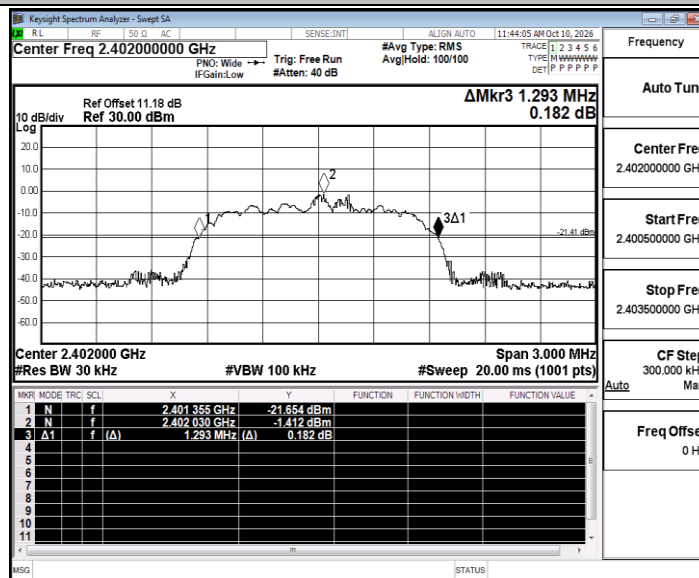
DH5_Ant1_2441



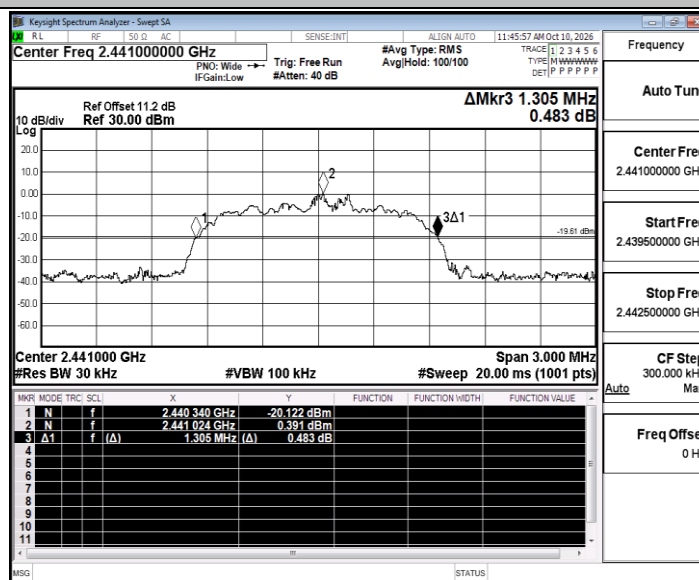
DH5_Ant1_2480



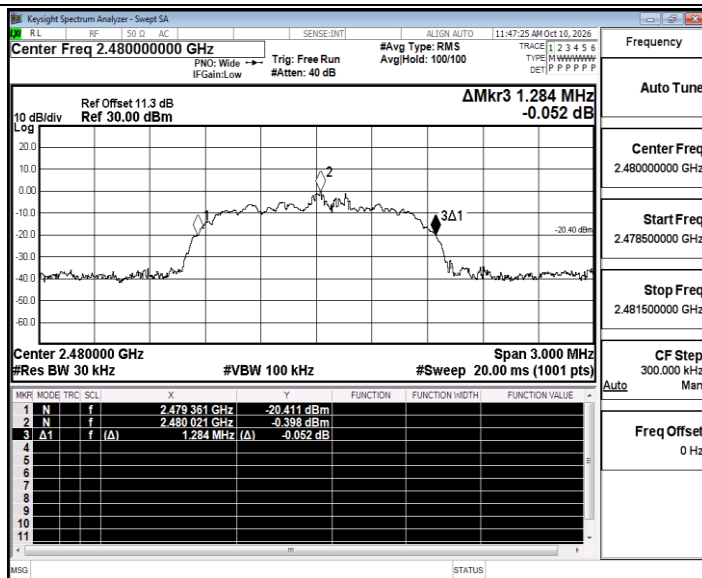
2DH5_Ant1_2402



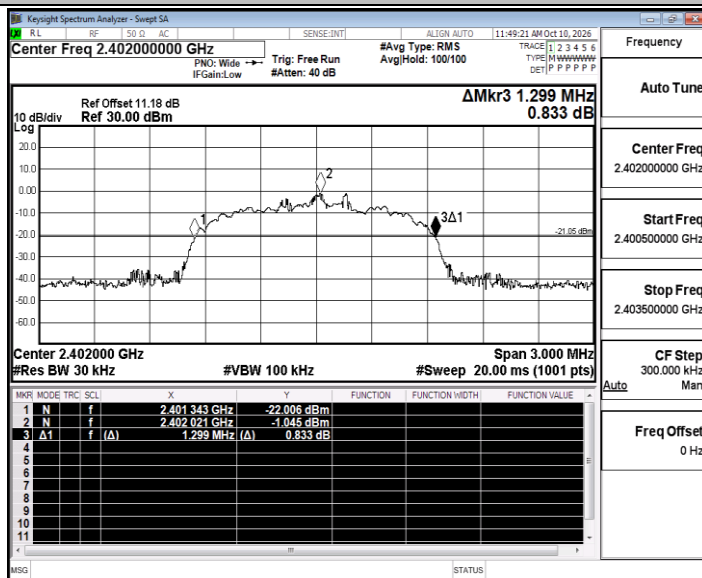
2DH5_Ant1_2441



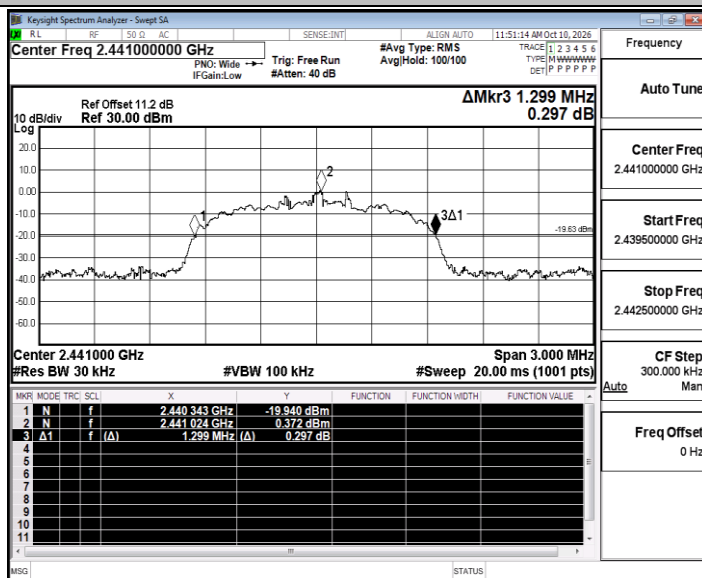
2DH5_Ant1_2480



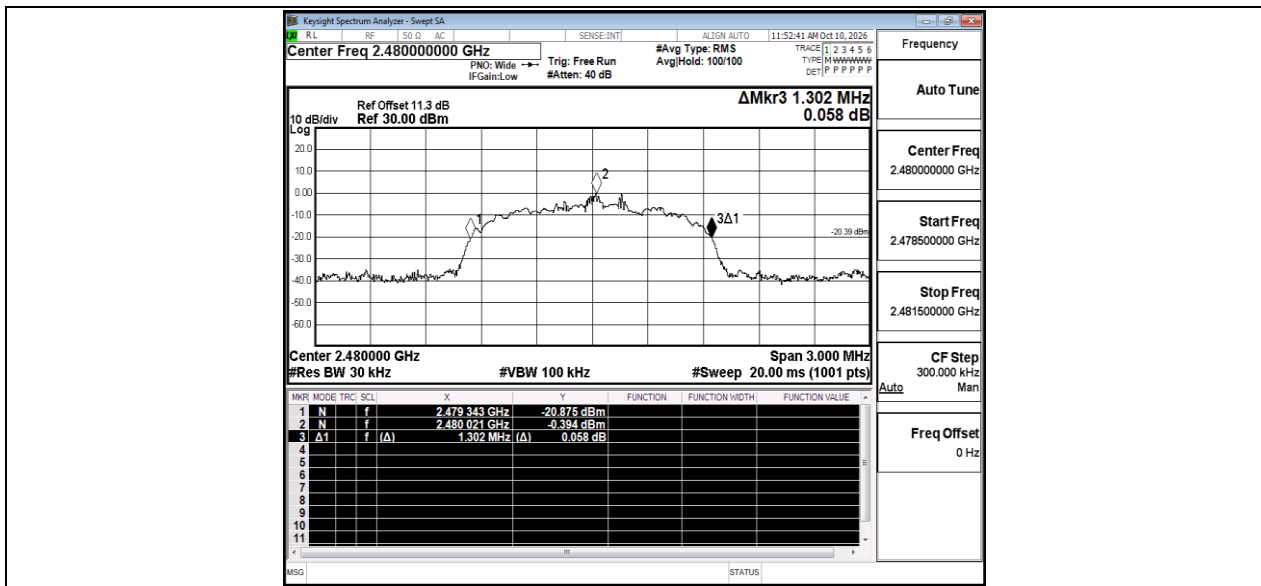
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



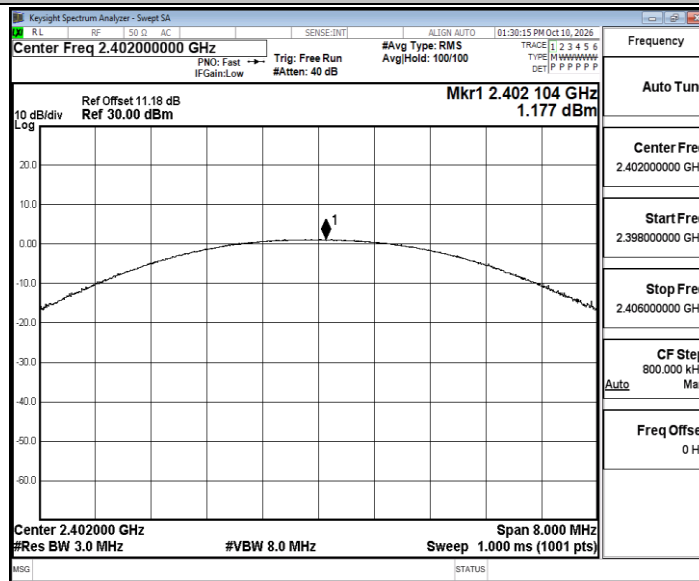
A.2 Maximum Peak conducted output power

Test Result Peak

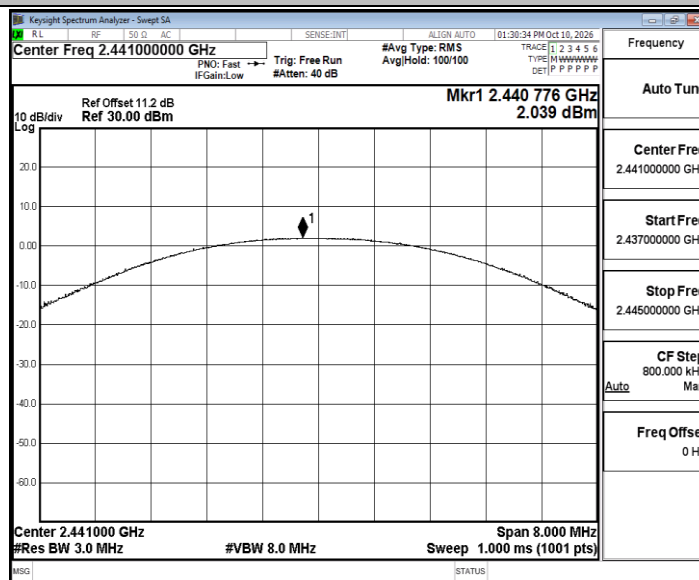
TestMode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.18	≤20.97	PASS
		2441	2.04	≤20.97	PASS
		2480	0.93	≤20.97	PASS
2DH5	Ant1	2402	2.77	≤20.97	PASS
		2441	3.31	≤20.97	PASS
		2480	1.80	≤20.97	PASS
3DH5	Ant1	2402	3.02	≤20.97	PASS
		2441	3.67	≤20.97	PASS
		2480	2.04	≤20.97	PASS

Test Graphs

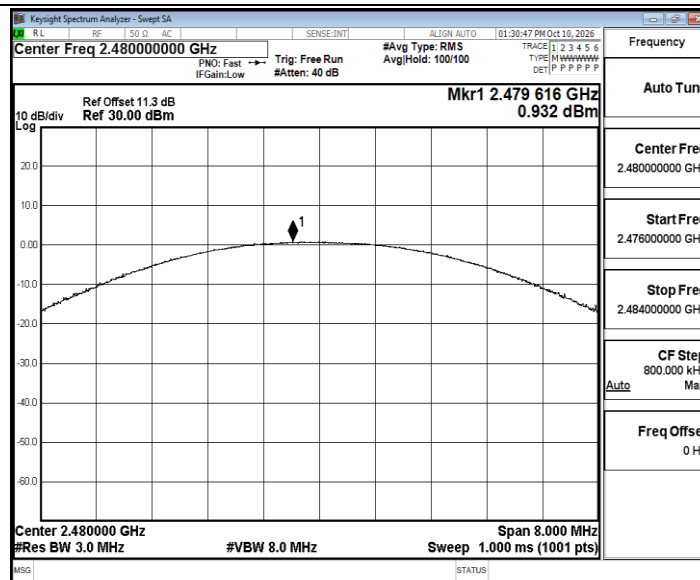
DH5_Ant1_2402



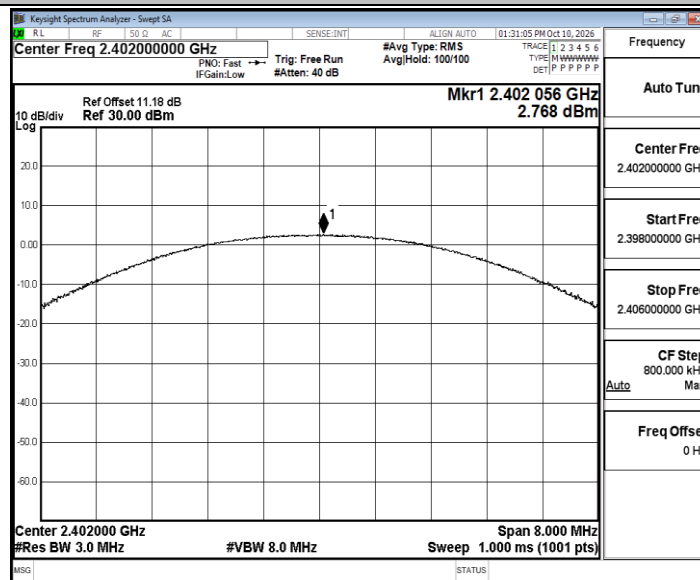
DH5_Ant1_2441



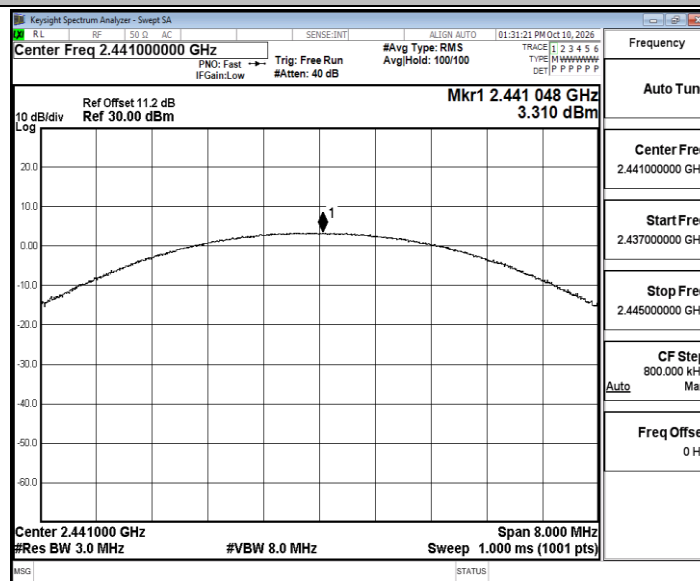
DH5_Ant1_2480



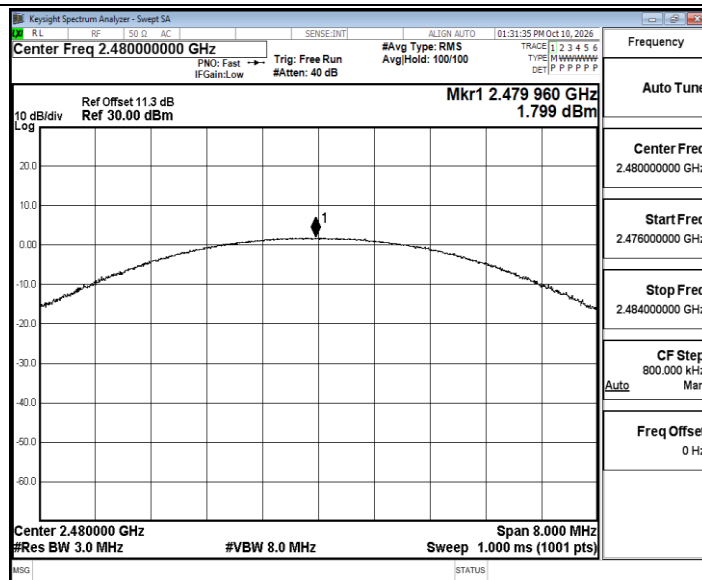
2DH5_Ant1_2402



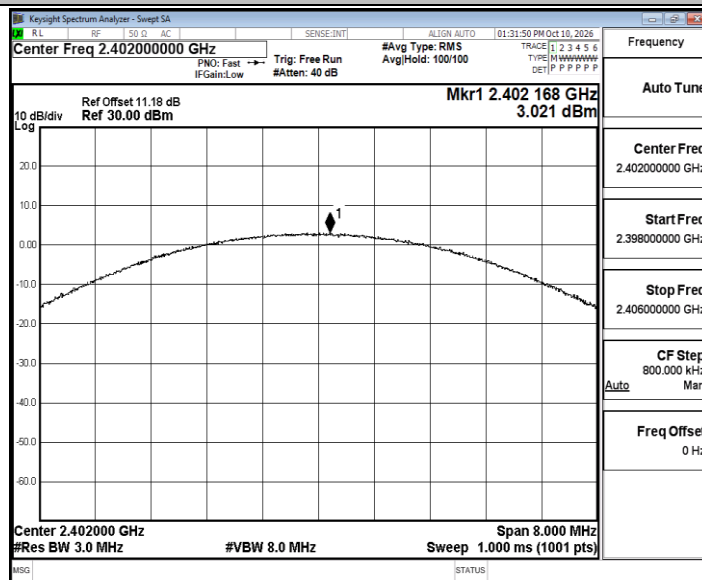
2DH5_Ant1_2441



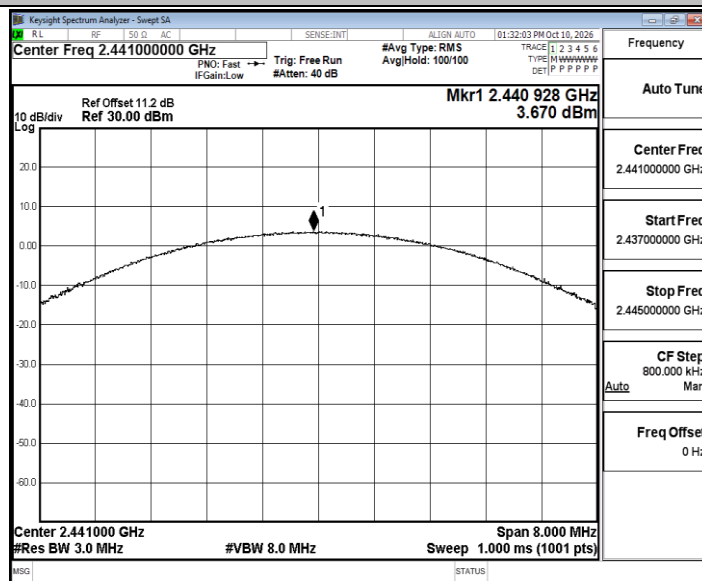
2DH5_Ant1_2480



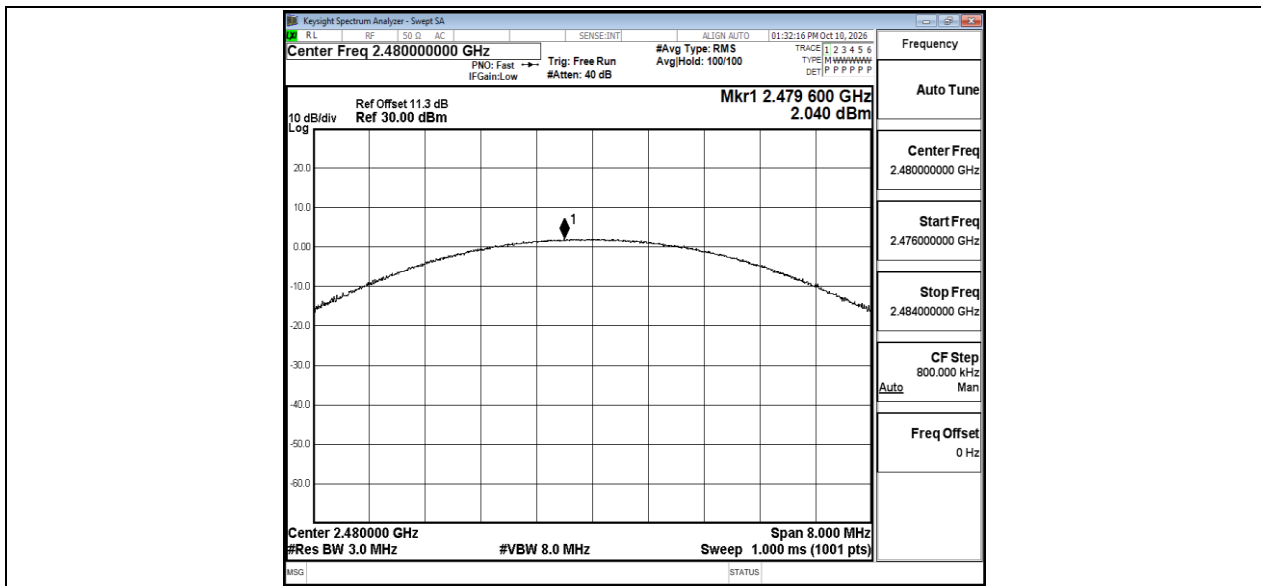
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

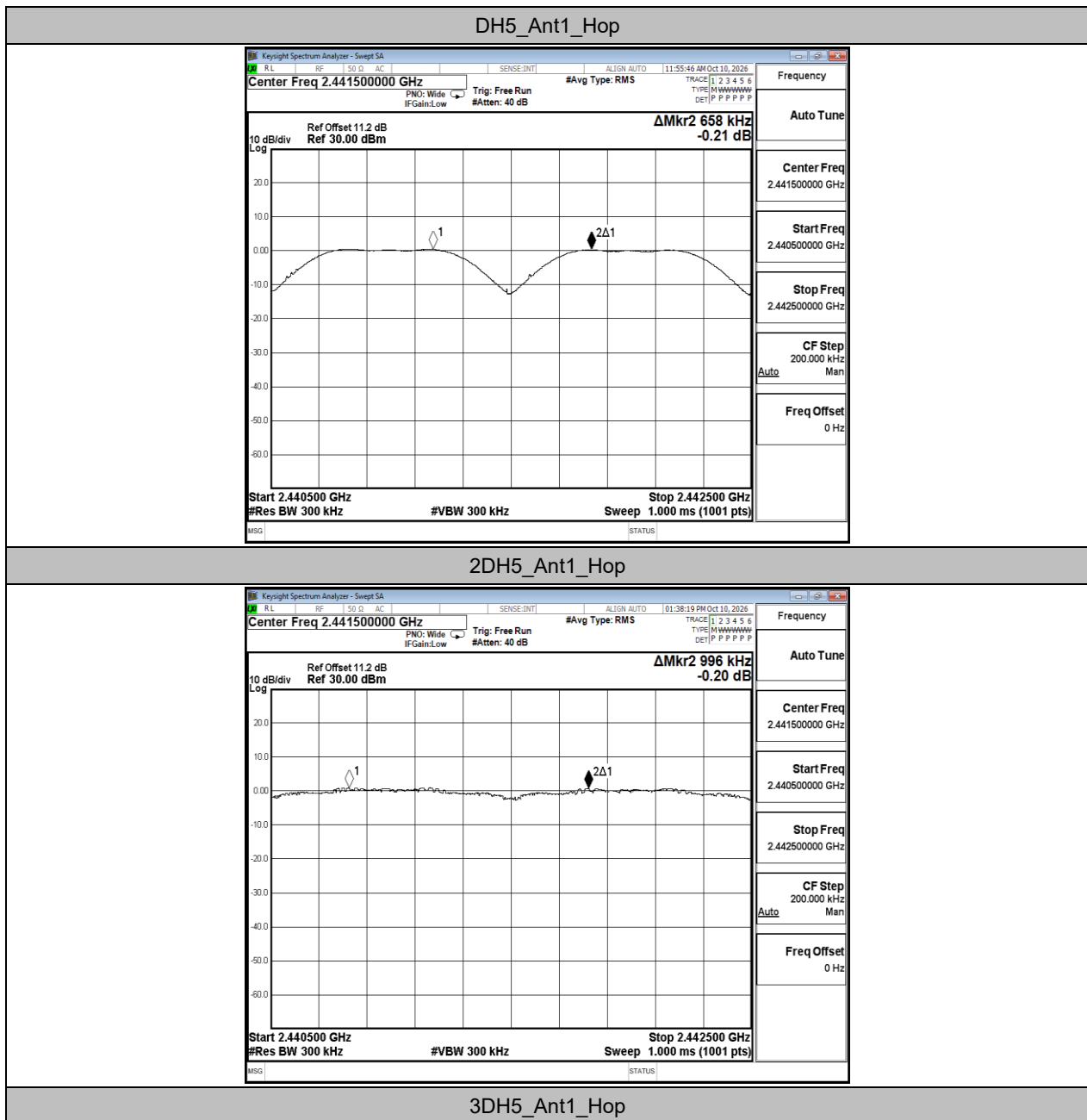


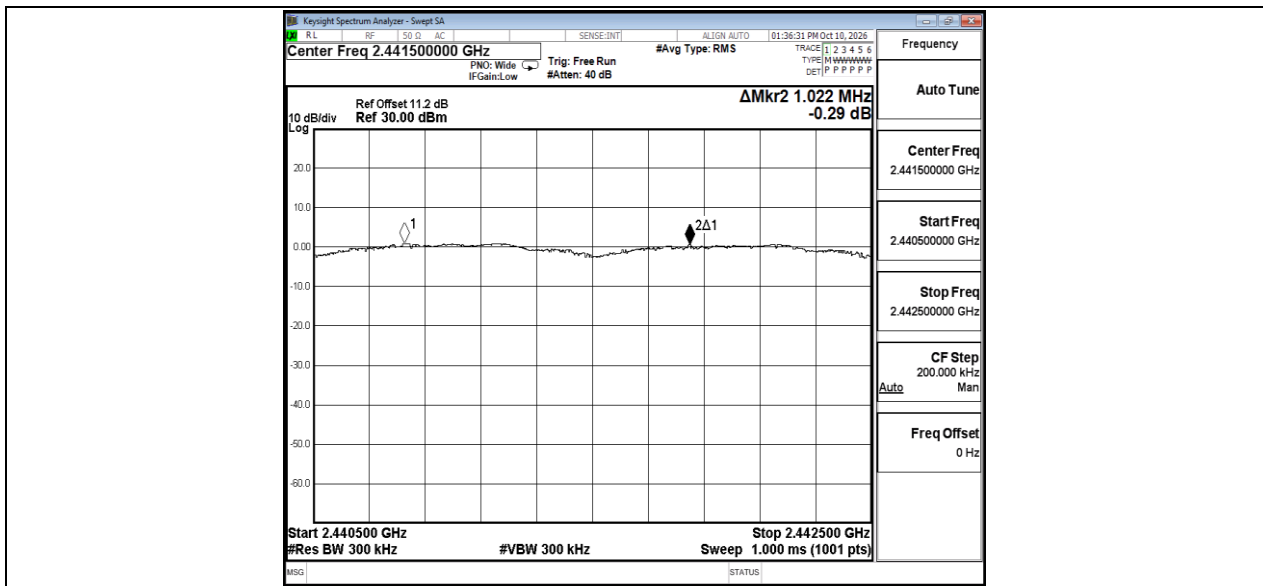
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.658	≥ 0.644	PASS
2DH5	Ant1	Hop	0.996	≥ 0.870	PASS
3DH5	Ant1	Hop	1.022	≥ 0.868	PASS

Test Graphs



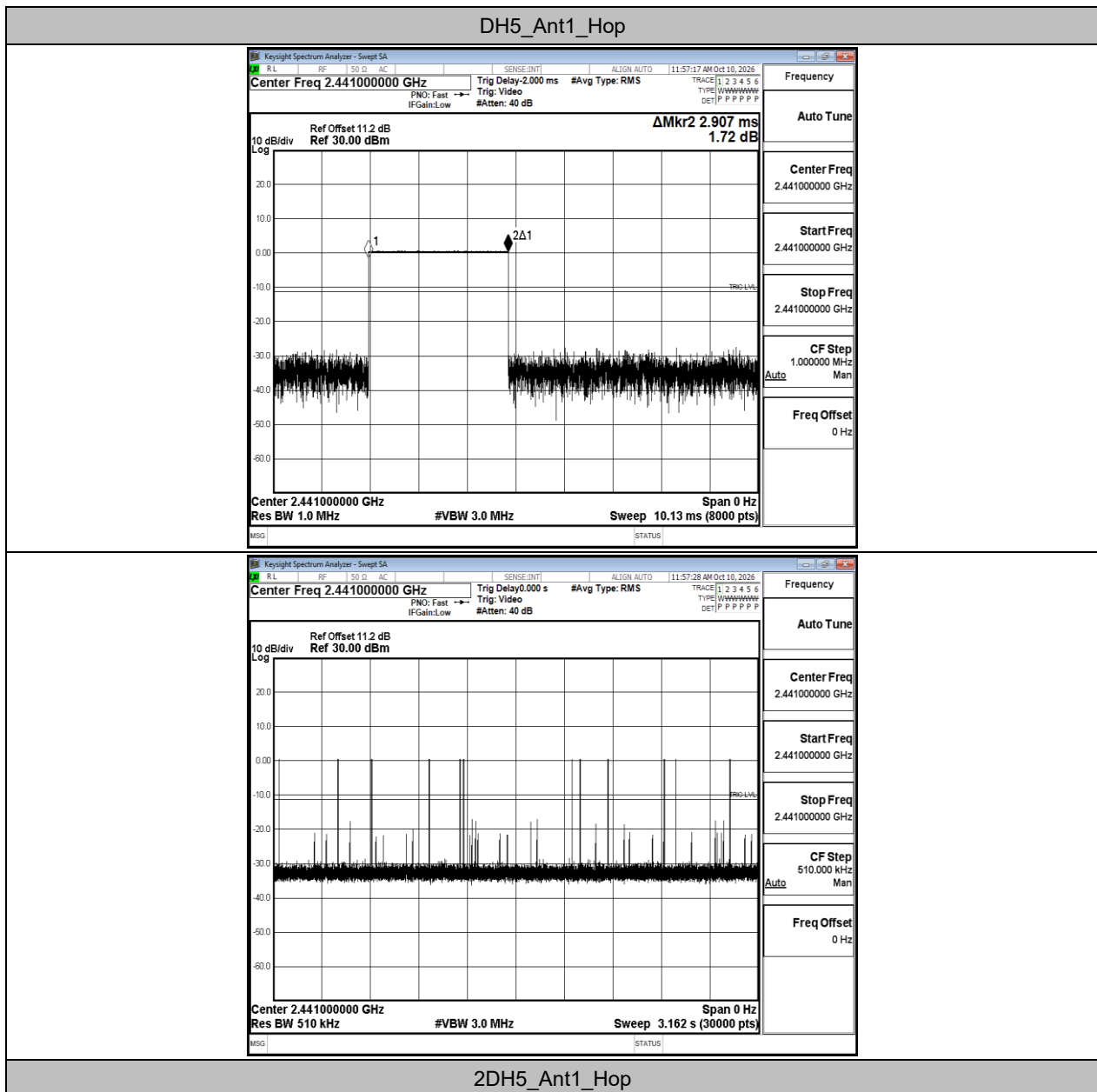


A4 Time of occupancy

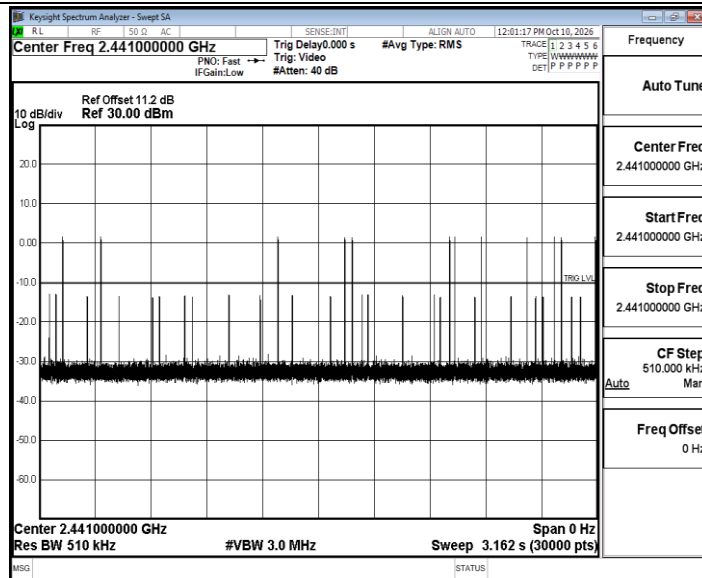
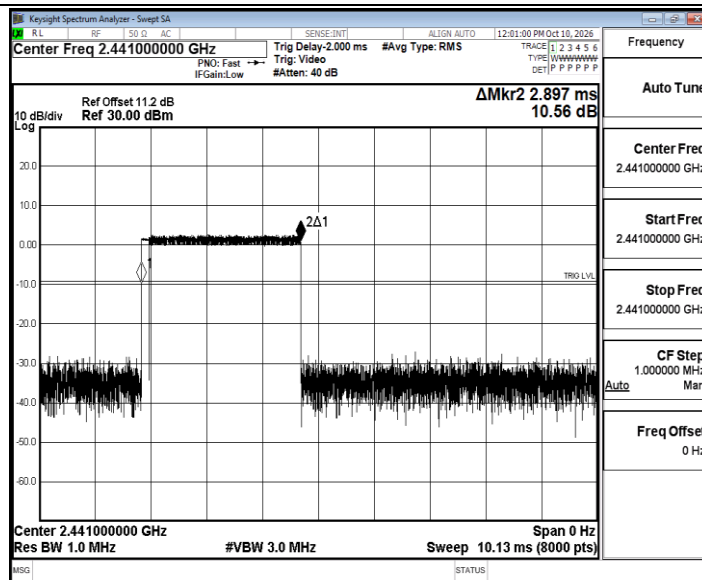
Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	130	0.378	≤0.4	PASS
2DH5	Ant1	Hop	2.897	130	0.377	≤0.4	PASS
3DH5	Ant1	Hop	2.896	100	0.29	≤0.4	PASS

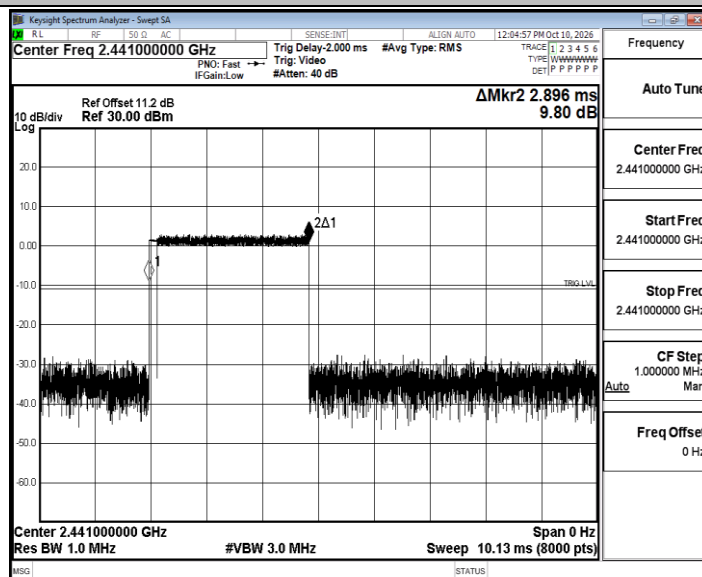
Test Graphs

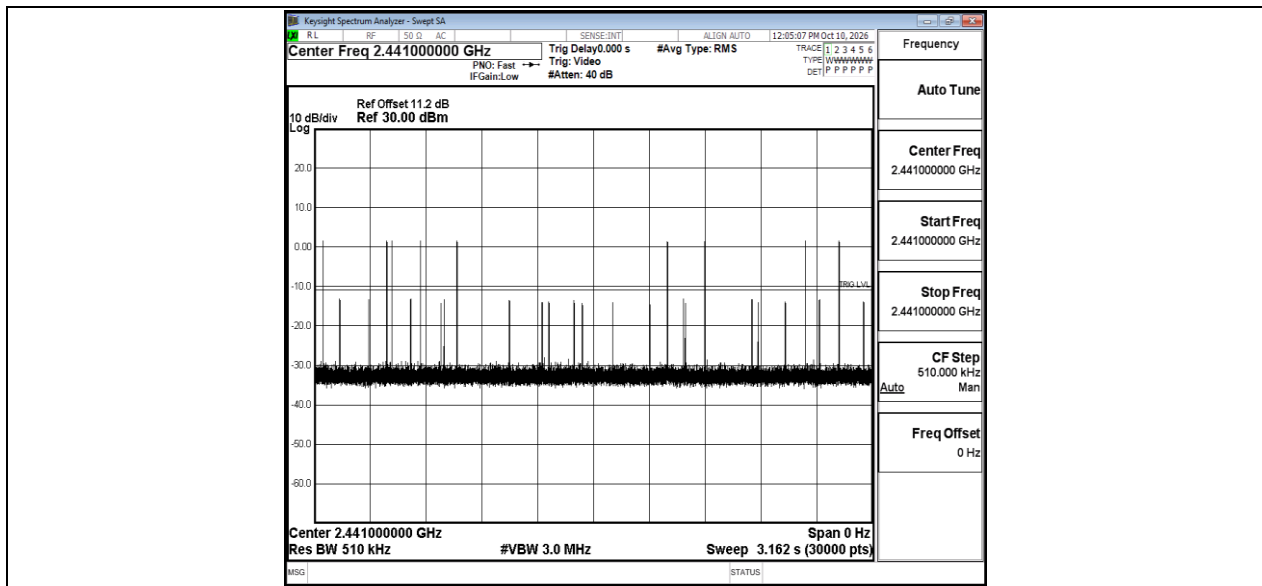


2DH5_Ant1_Hop



3DH5_Ant1_Hop



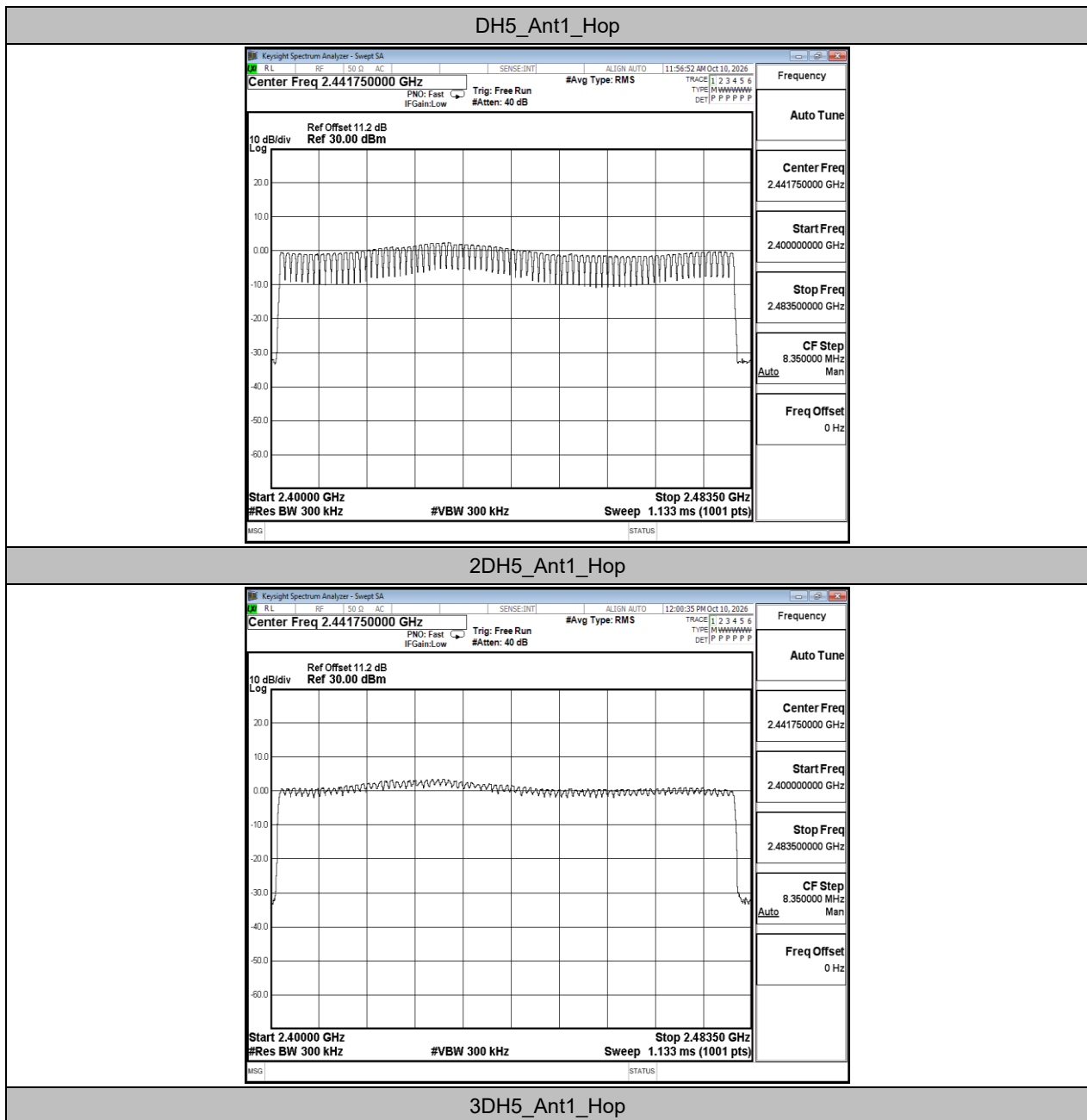


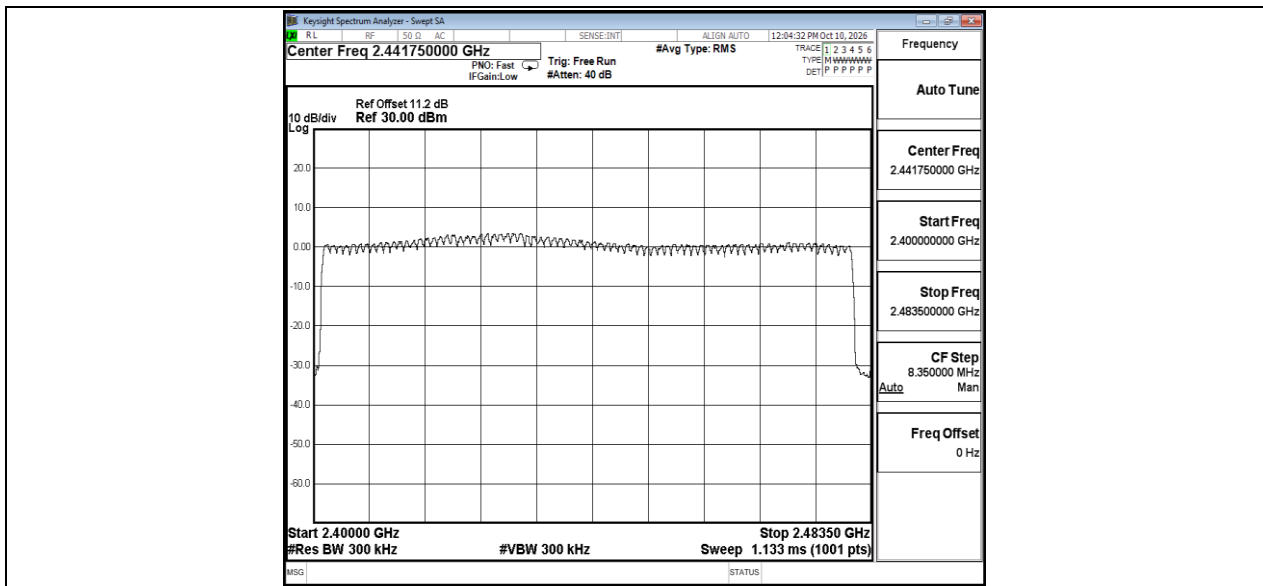
A.5 Number of hopping channels

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





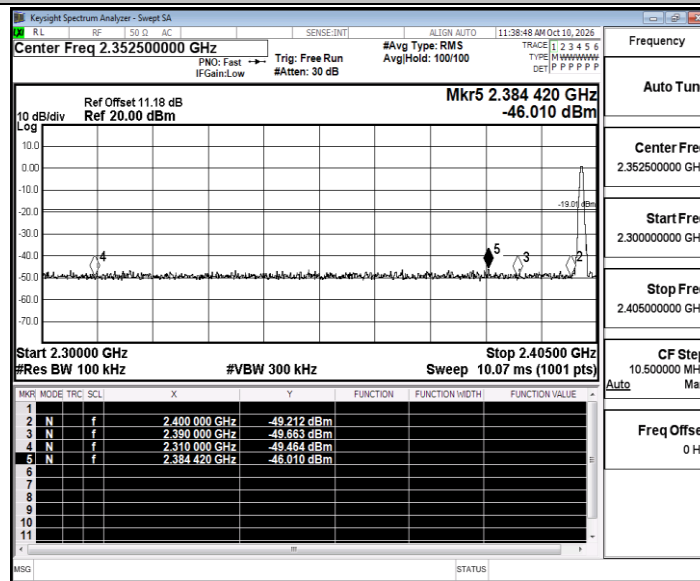
A.6 Band edge measurements

Test Result

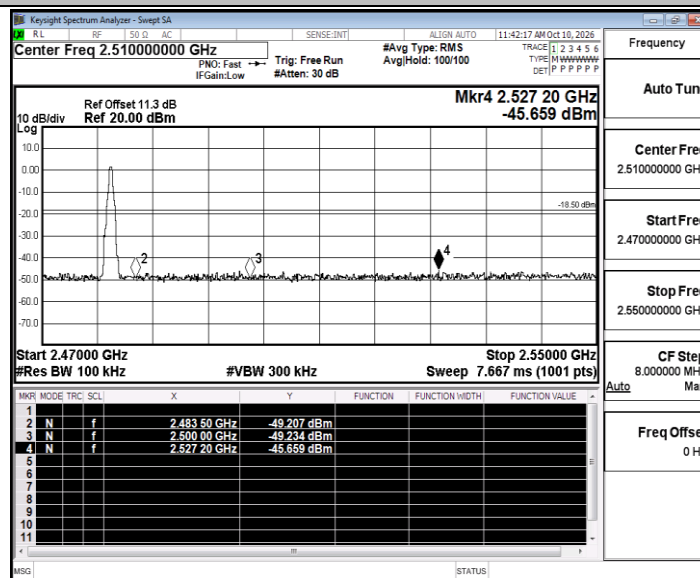
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.99	-46.01	≤ -19.01	PASS
		High	2480	1.50	-45.66	≤ -18.5	PASS
		Low	Hop_2402	-1.70	-45.79	≤ -21.7	PASS
		High	Hop_2480	-0.47	-44.2	≤ -20.47	PASS
2DH5	Ant1	Low	2402	0.35	-45.93	≤ -19.65	PASS
		High	2480	1.58	-44.61	≤ -18.42	PASS
		Low	Hop_2402	0.02	-45.38	≤ -19.98	PASS
		High	Hop_2480	-2.37	-44.44	≤ -22.37	PASS
3DH5	Ant1	Low	2402	1.11	-46.08	≤ -18.89	PASS
		High	2480	1.55	-46.06	≤ -18.45	PASS
		Low	Hop_2402	0.42	-46.01	≤ -19.58	PASS
		High	Hop_2480	-0.12	-45.4	≤ -20.12	PASS

Test Graphs

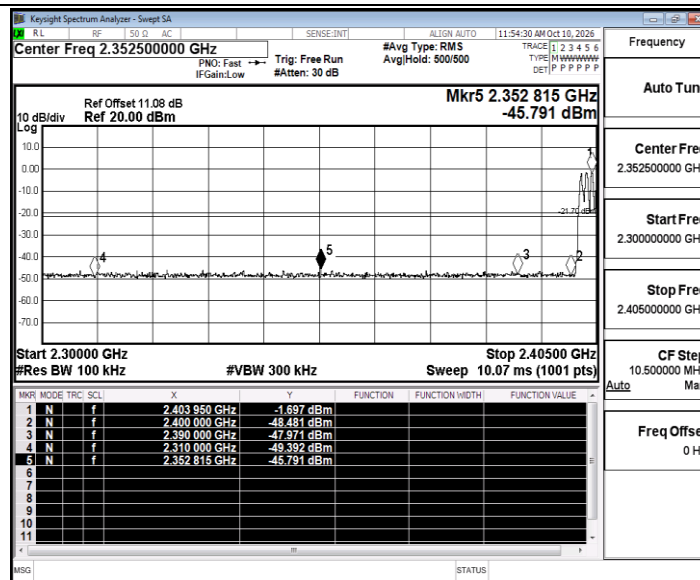
DH5_Ant1_Low_2402



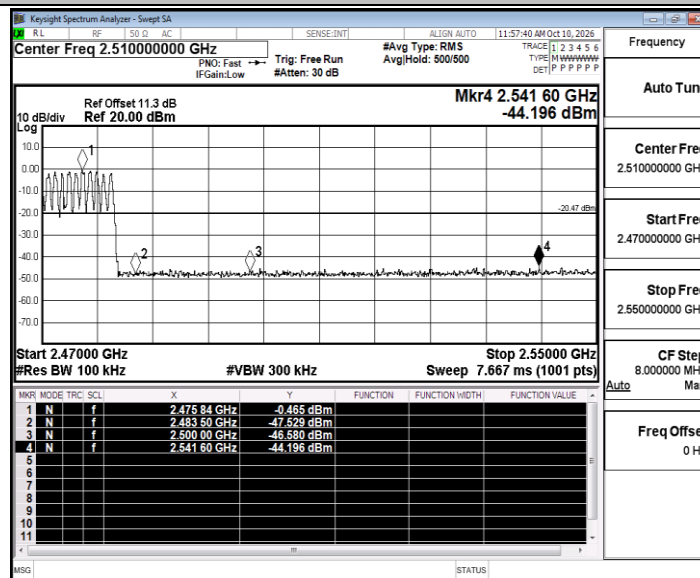
DH5_Ant1_High_2480



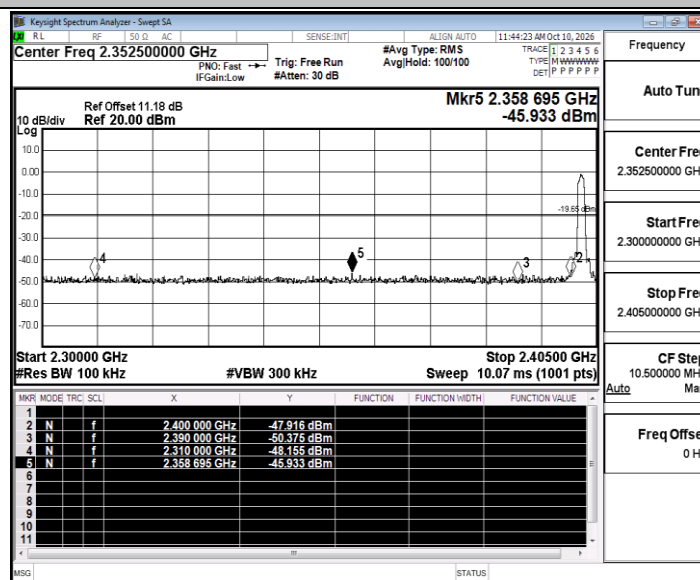
DH5_Ant1_Low_Hop_2402



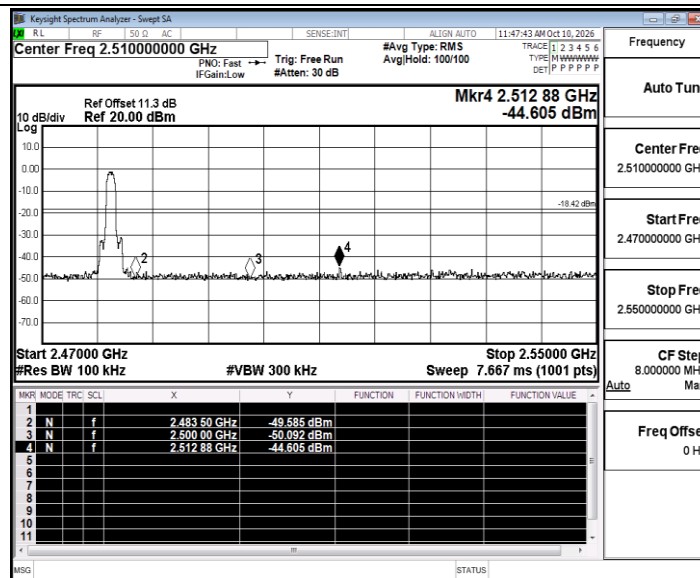
DH5_Ant1_High_Hop_2480



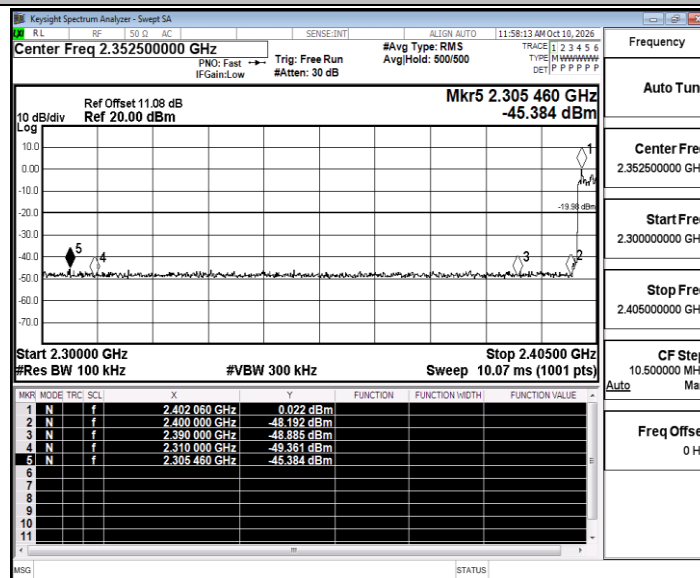
2DH5_Ant1_Low_2402



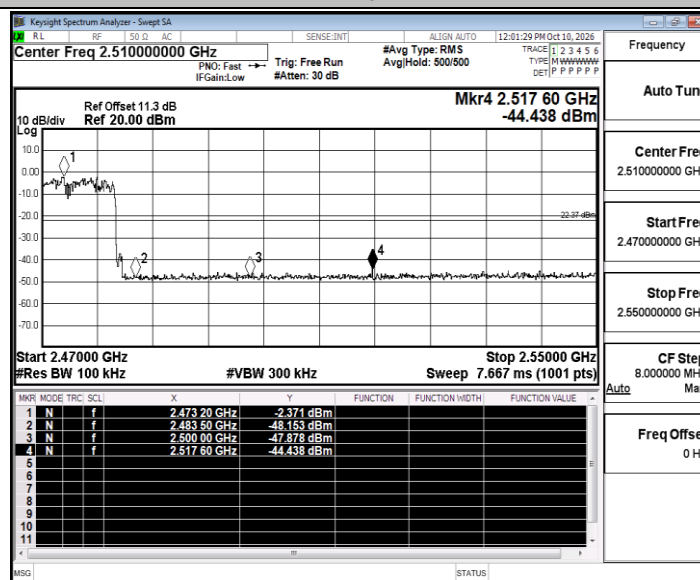
2DH5_Ant1_High_2480



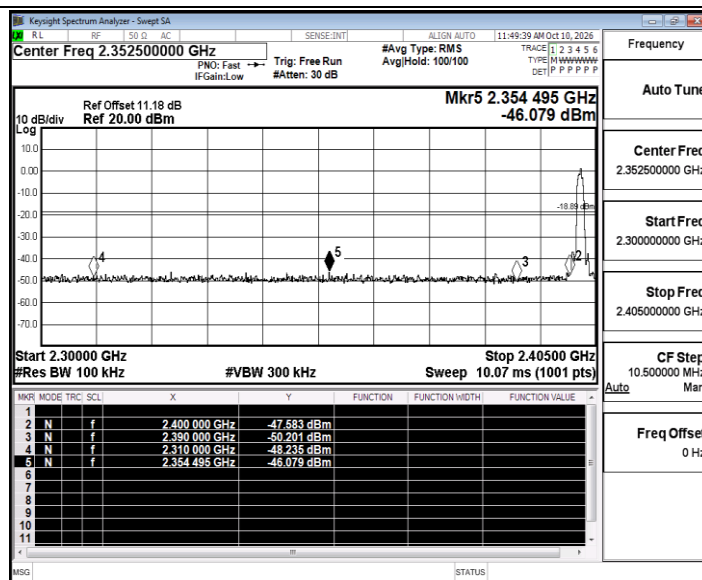
2DH5_Ant1_Low_Hop_2402



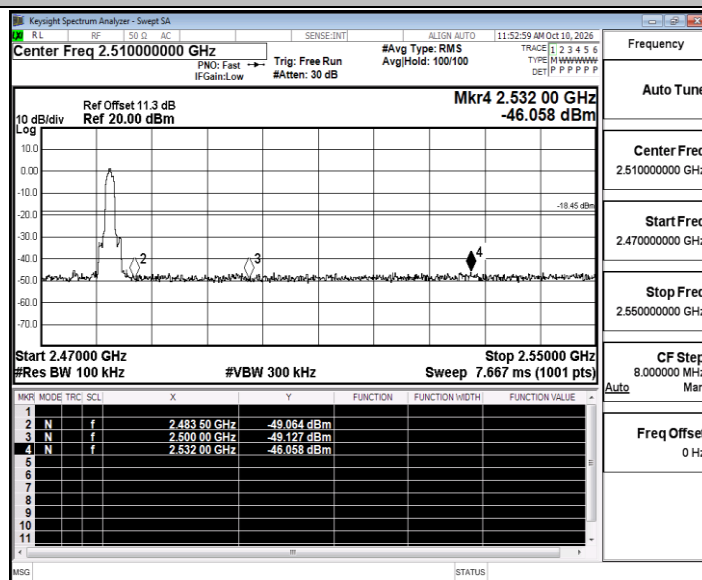
2DH5_Ant1_High_Hop_2480



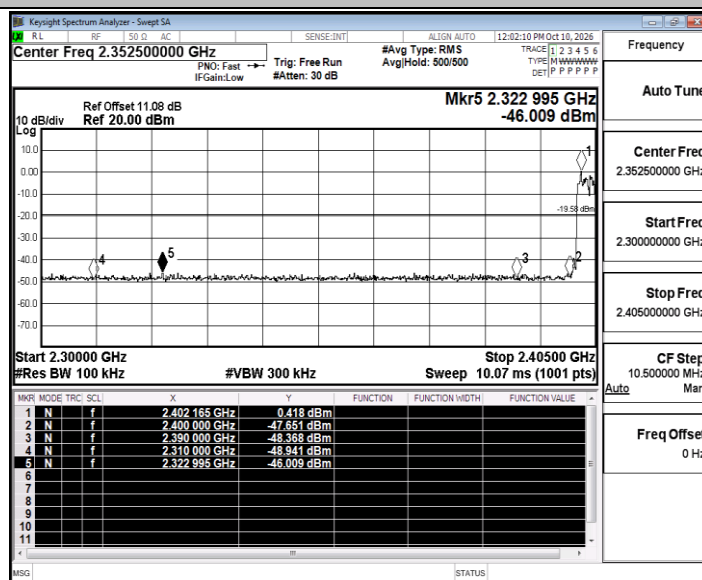
3DH5_Ant1_Low_2402



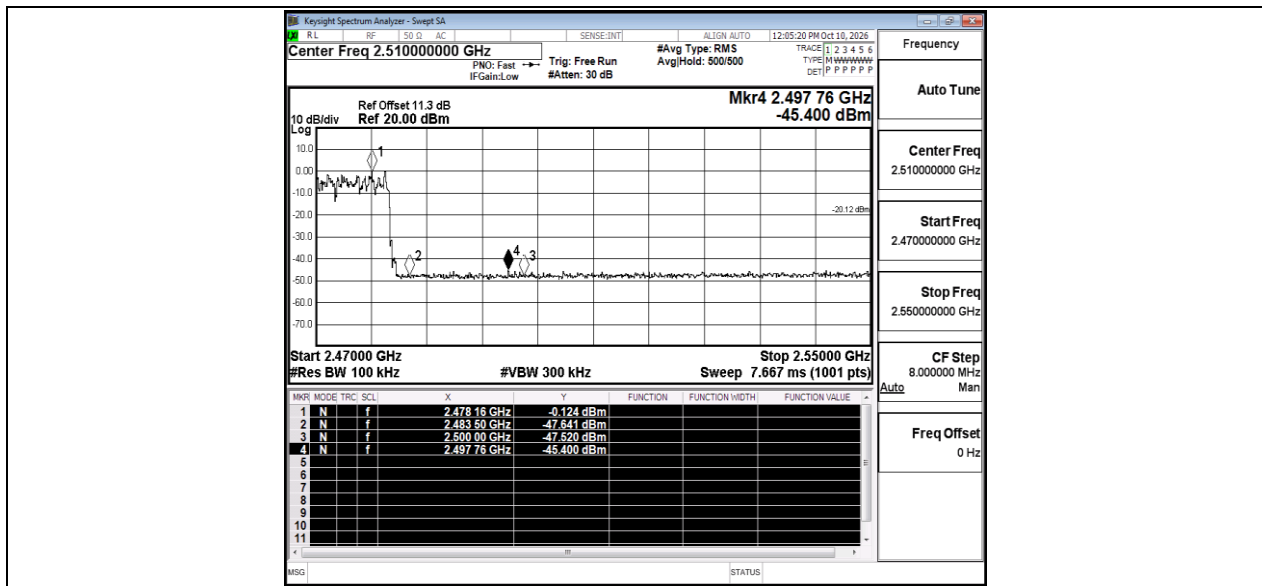
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



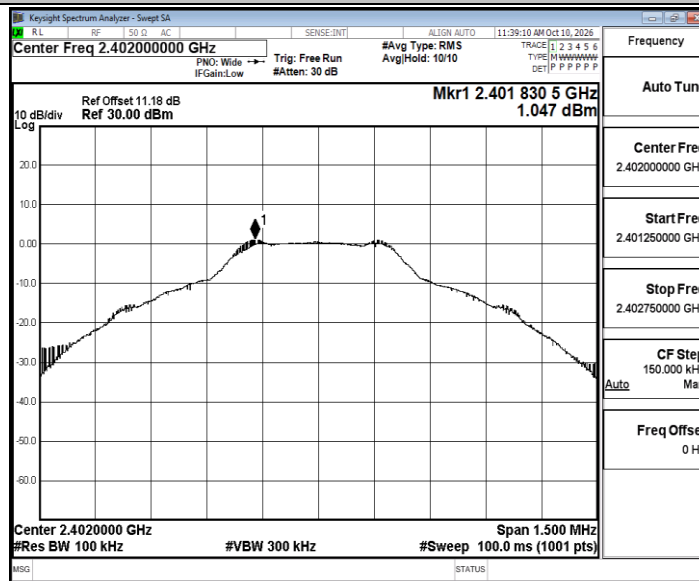
A.7 Conducted Spurious Emission

Test Result

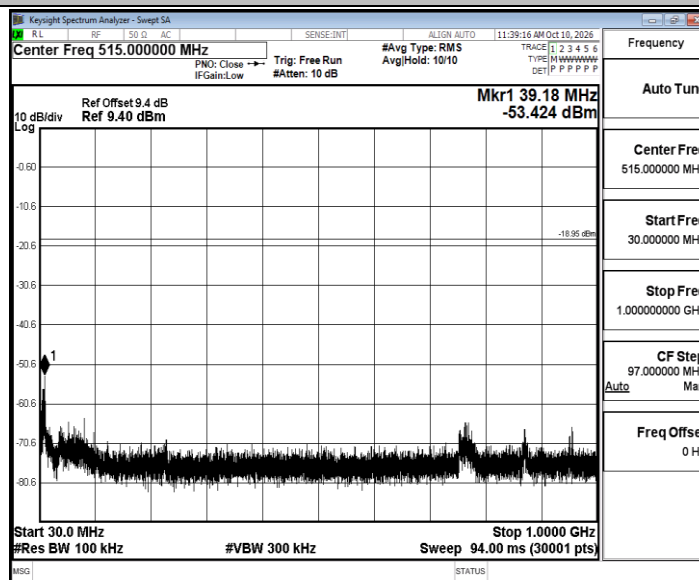
TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.05	1.05	---	PASS
			30~1000	1.05	-53.42	≤-18.95	PASS
			1000~26500	1.05	-44.76	≤-18.95	PASS
		2441	Reference	2.48	2.48	---	PASS
			30~1000	2.48	-58.8	≤-17.52	PASS
			1000~26500	2.48	-43.7	≤-17.52	PASS
		2480	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-56.11	≤-18.29	PASS
			1000~26500	1.71	-44.32	≤-18.29	PASS
2DH5	Ant1	2402	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-55.88	≤-19.06	PASS
			1000~26500	0.94	-44.63	≤-19.06	PASS
		2441	Reference	2.34	2.34	---	PASS
			30~1000	2.34	-53.26	≤-17.66	PASS
			1000~26500	2.34	-44.5	≤-17.66	PASS
		2480	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-53.62	≤-18.36	PASS
			1000~26500	1.64	-44.05	≤-18.36	PASS
3DH5	Ant1	2402	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-52.88	≤-18.87	PASS
			1000~26500	1.13	-44.54	≤-18.87	PASS
		2441	Reference	2.57	2.57	---	PASS
			30~1000	2.57	-56.58	≤-17.43	PASS
			1000~26500	2.57	-44.54	≤-17.43	PASS
		2480	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-57.34	≤-18.21	PASS
			1000~26500	1.79	-44.83	≤-18.21	PASS

Test Graphs

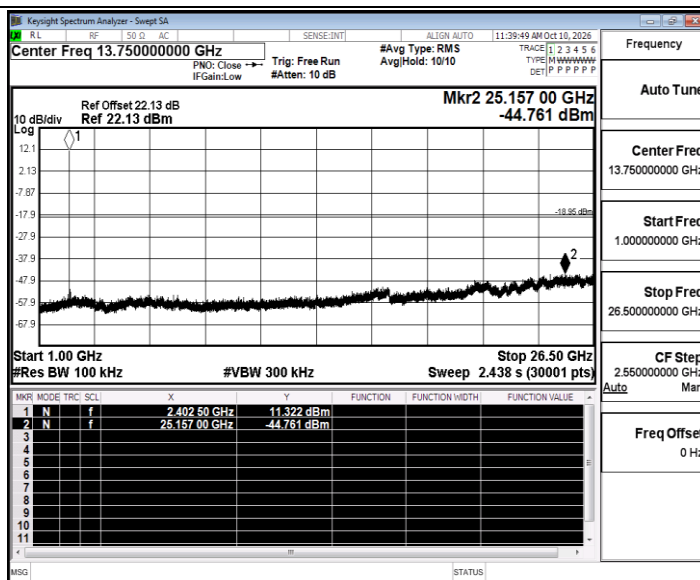
DH5_Ant1_2402_0~Reference



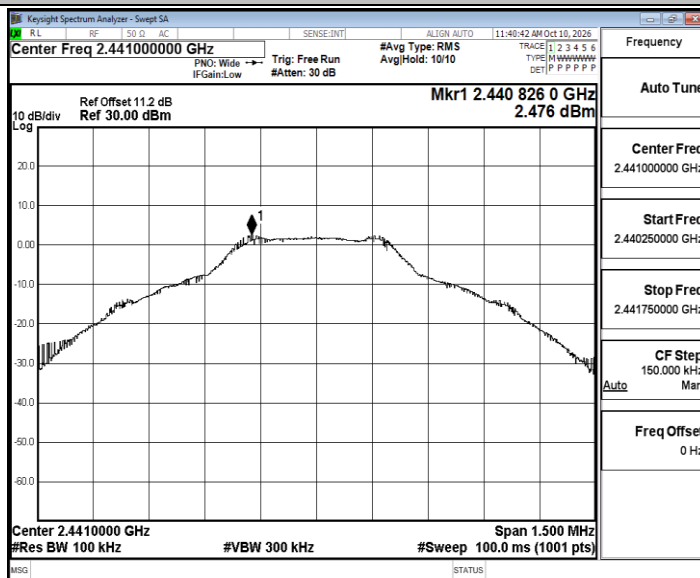
DH5_Ant1_2402_30~1000



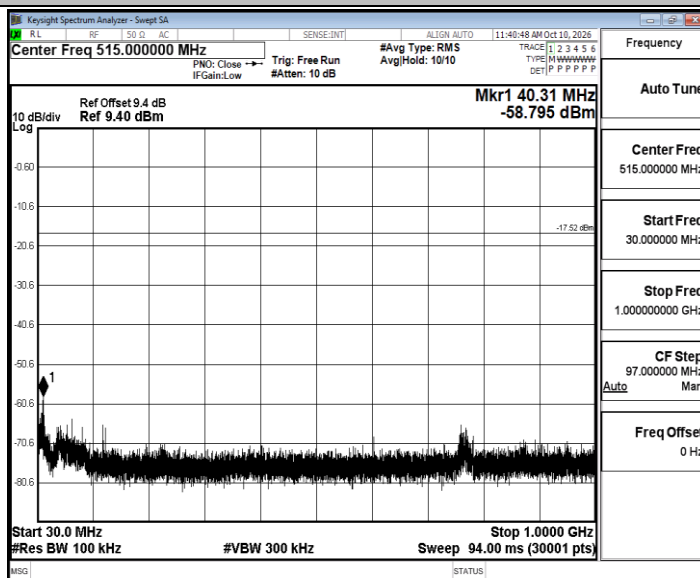
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500