

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless speaker

Test Model: CQS-S666

Environmental Conditions

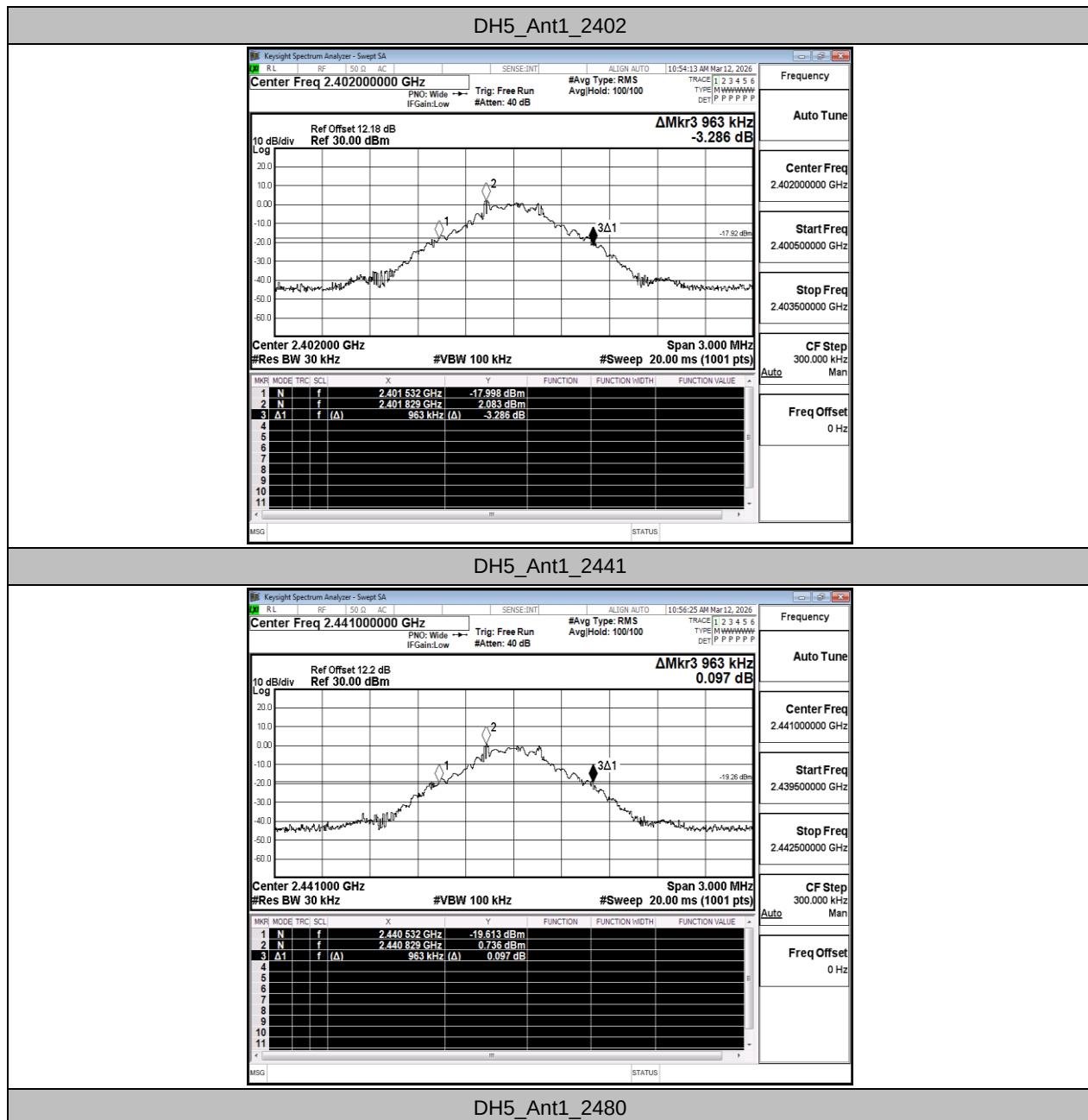
Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao Xing Hai
Supervised by:	Fengliu Tang

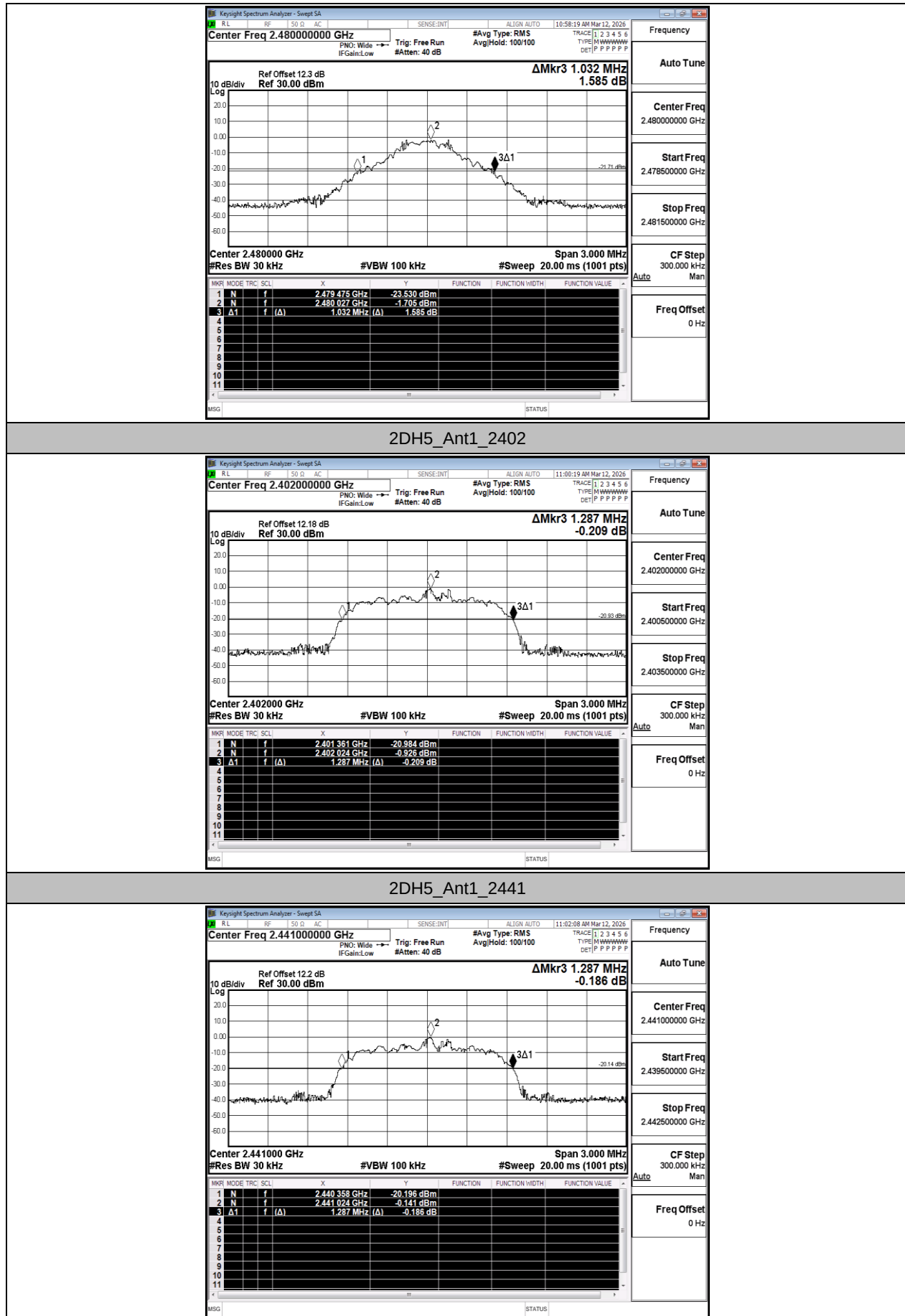
Ap.1 20dB Emission Bandwidth

Test Result

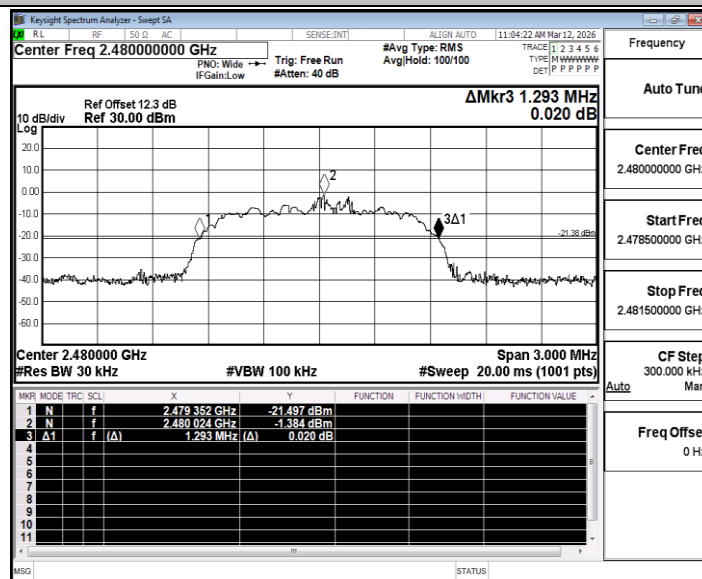
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.532	2402.495	---	---
		2441	0.963	2440.532	2441.495	---	---
		2480	1.032	2479.475	2480.507	---	---
2DH5	Ant1	2402	1.287	2401.361	2402.648	---	---
		2441	1.287	2440.358	2441.645	---	---
		2480	1.293	2479.352	2480.645	---	---
3DH5	Ant1	2402	1.299	2401.346	2402.645	---	---
		2441	1.299	2440.346	2441.645	---	---
		2480	1.302	2479.343	2480.645	---	---

Test Graphs

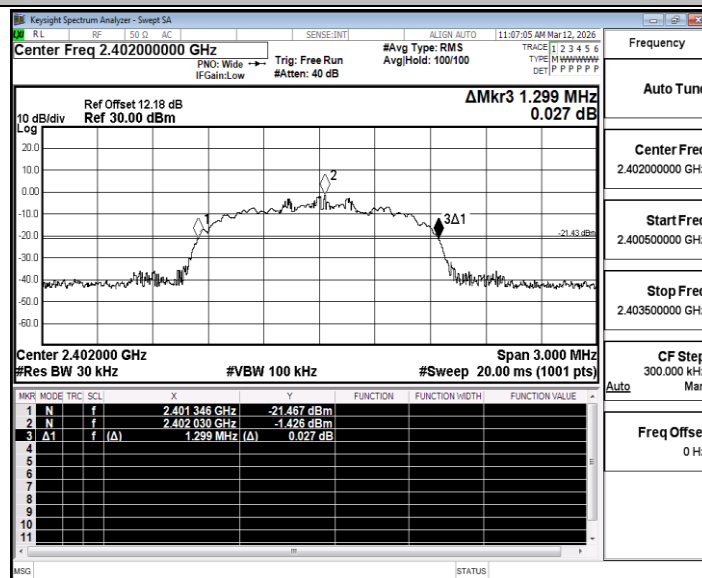




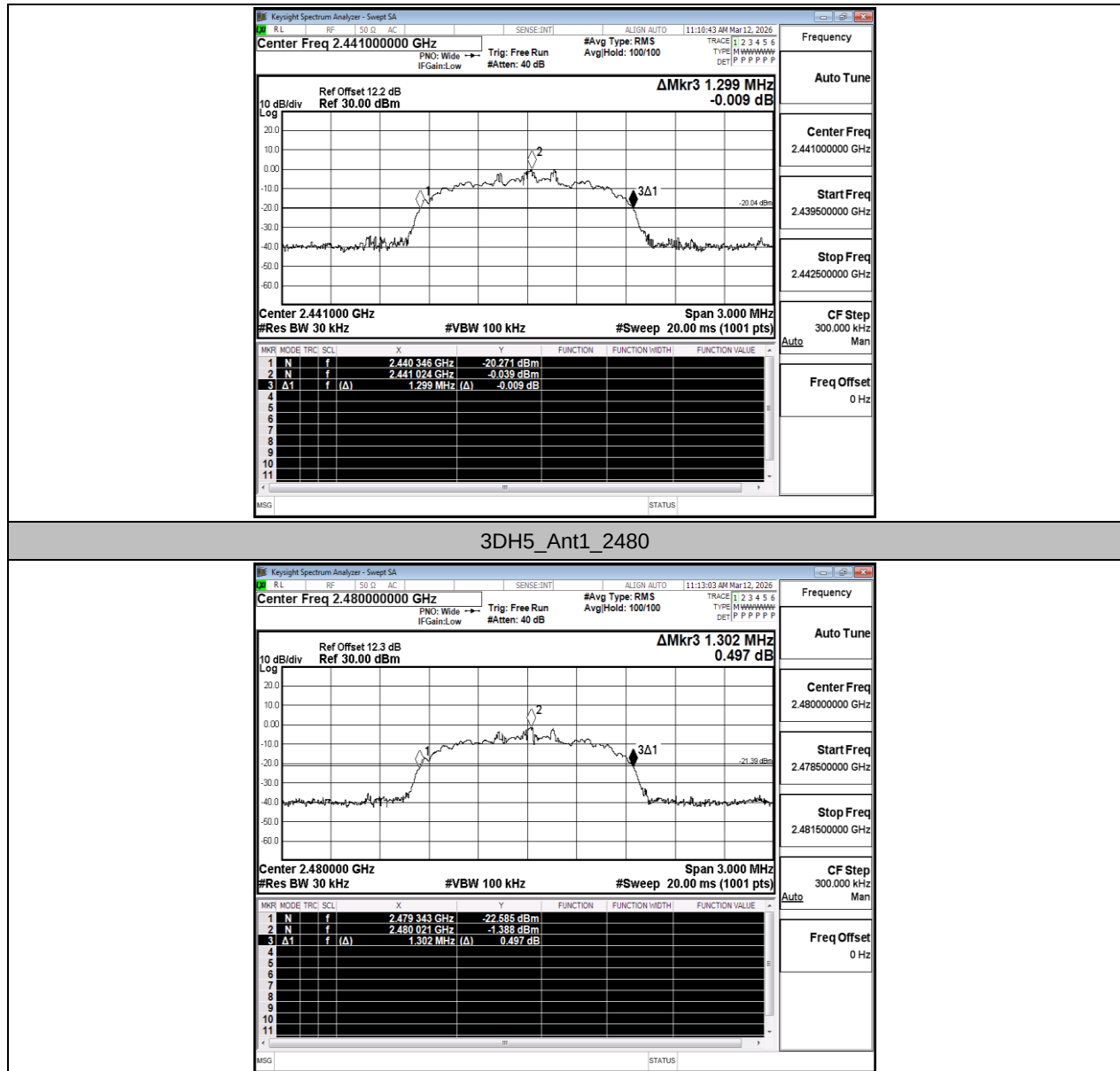
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

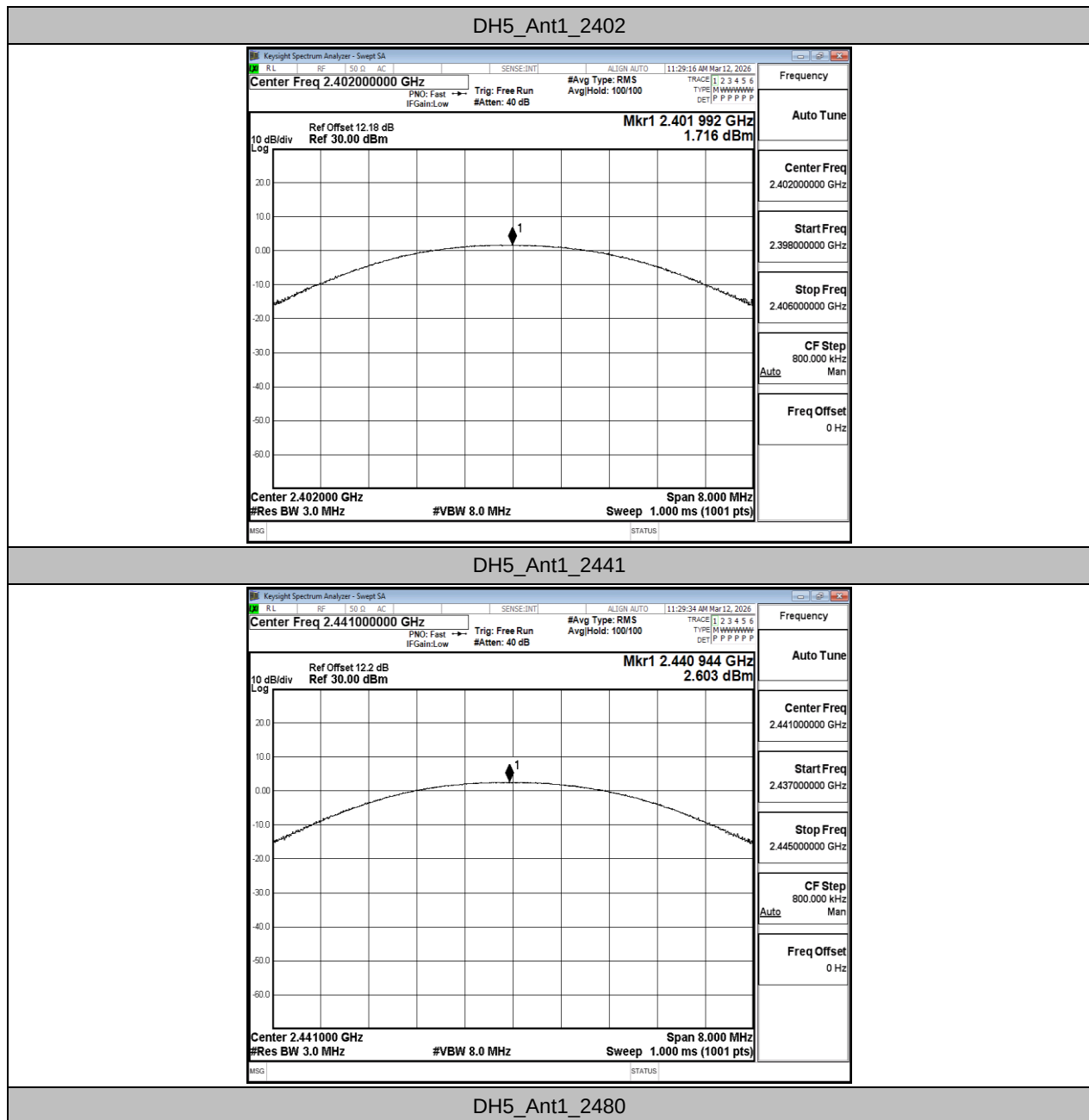


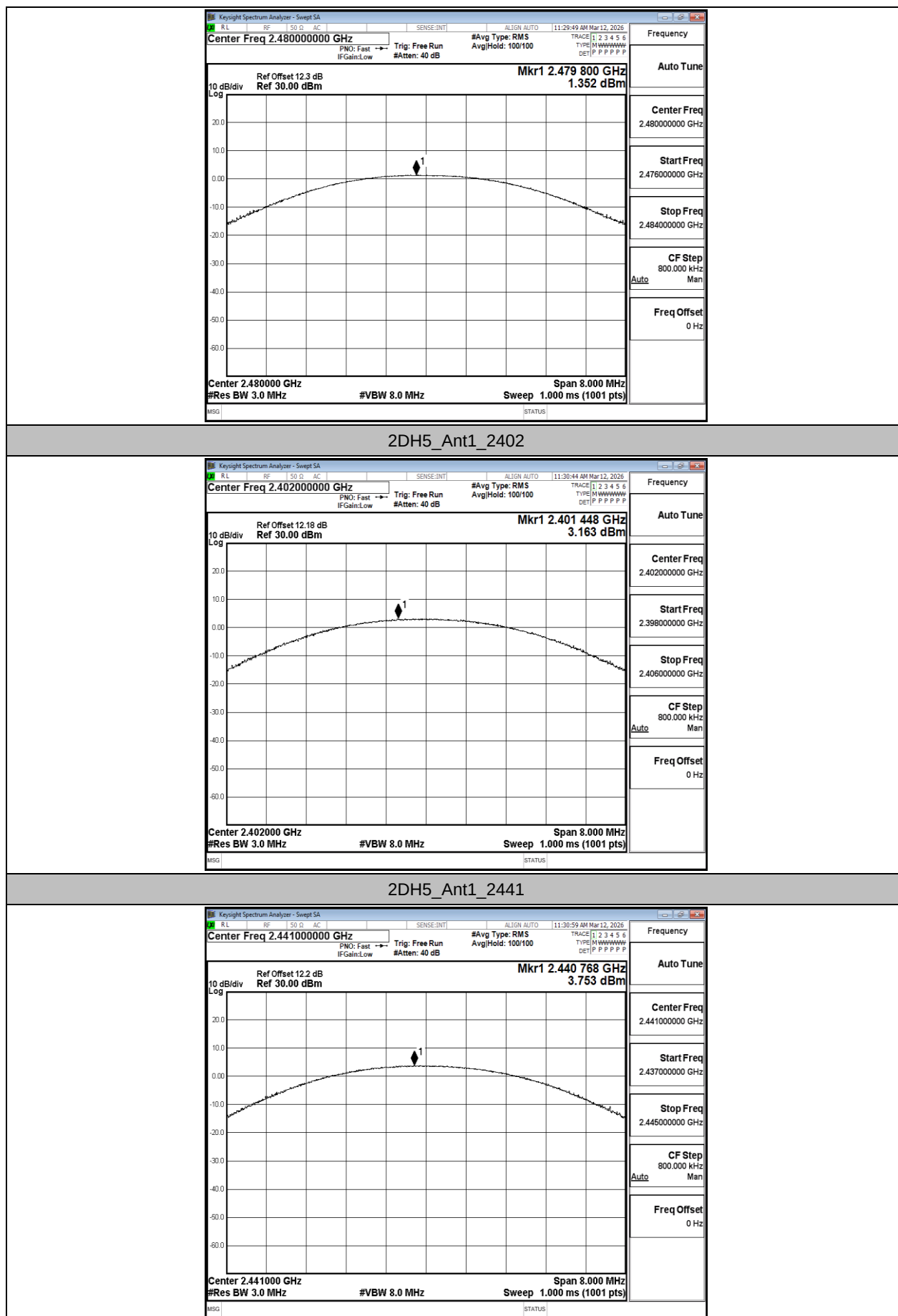
A.2 Maximum Peak conducted output power

Test Result Peak

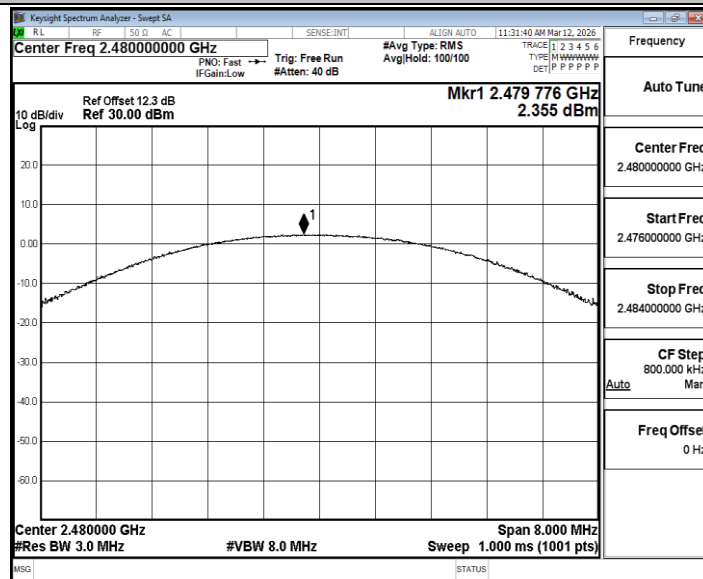
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.72	≤30	PASS
		2441	2.60	≤30	PASS
		2480	1.35	≤30	PASS
2DH5	Ant1	2402	3.16	≤30	PASS
		2441	3.75	≤30	PASS
		2480	2.36	≤30	PASS
3DH5	Ant1	2402	3.41	≤30	PASS
		2441	3.97	≤30	PASS
		2480	2.53	≤30	PASS

Test Graphs

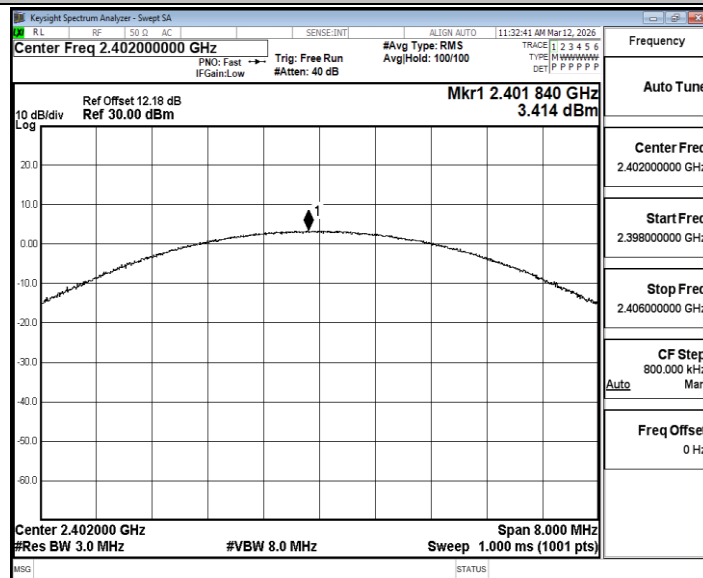




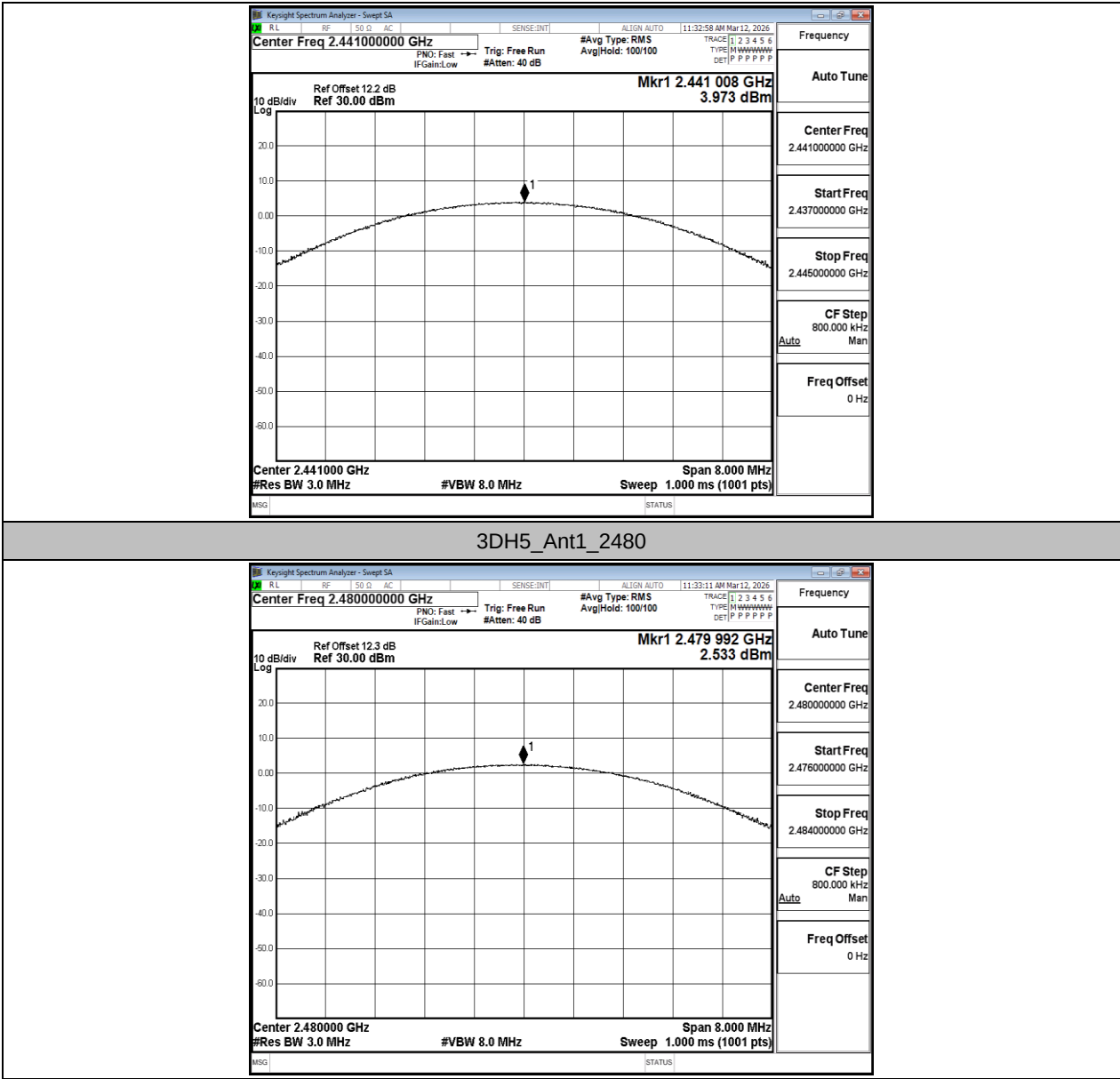
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

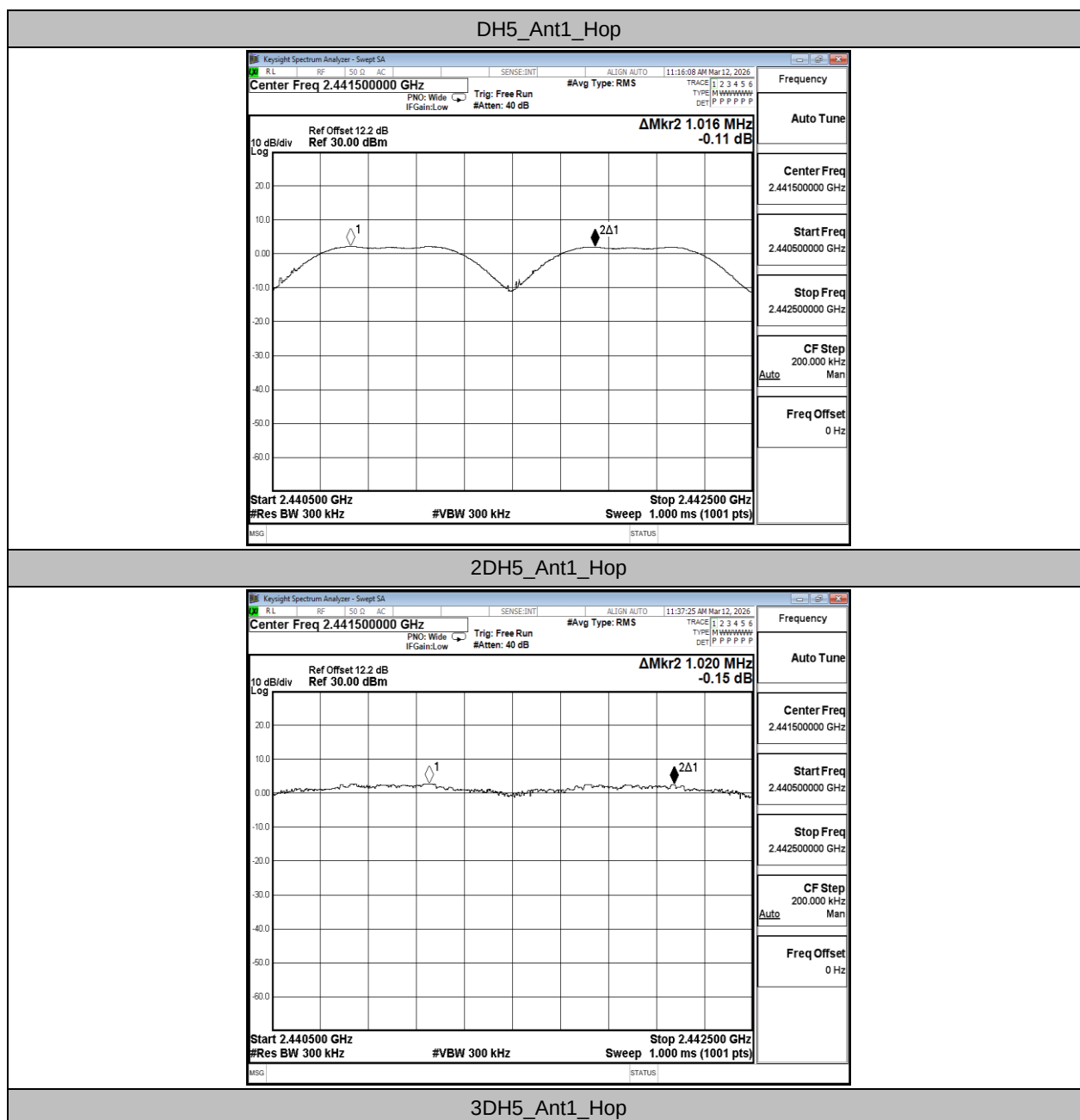


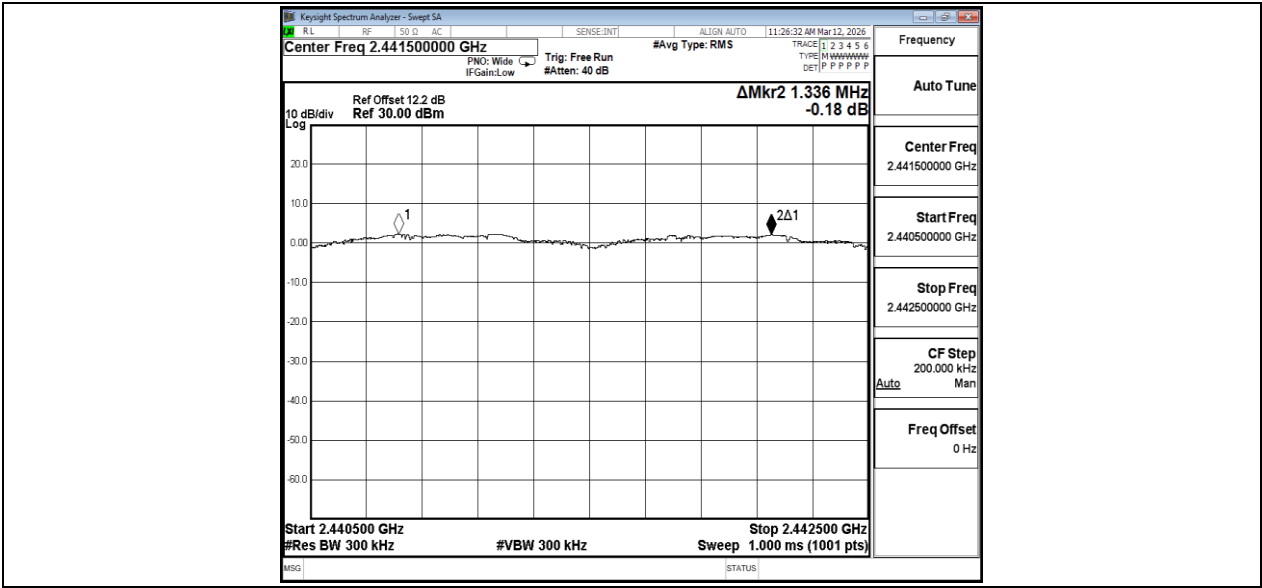
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.016	≥ 0.688	PASS
2DH5	Ant1	Hop	1.02	≥ 0.862	PASS
3DH5	Ant1	Hop	1.336	≥ 0.868	PASS

Test Graphs



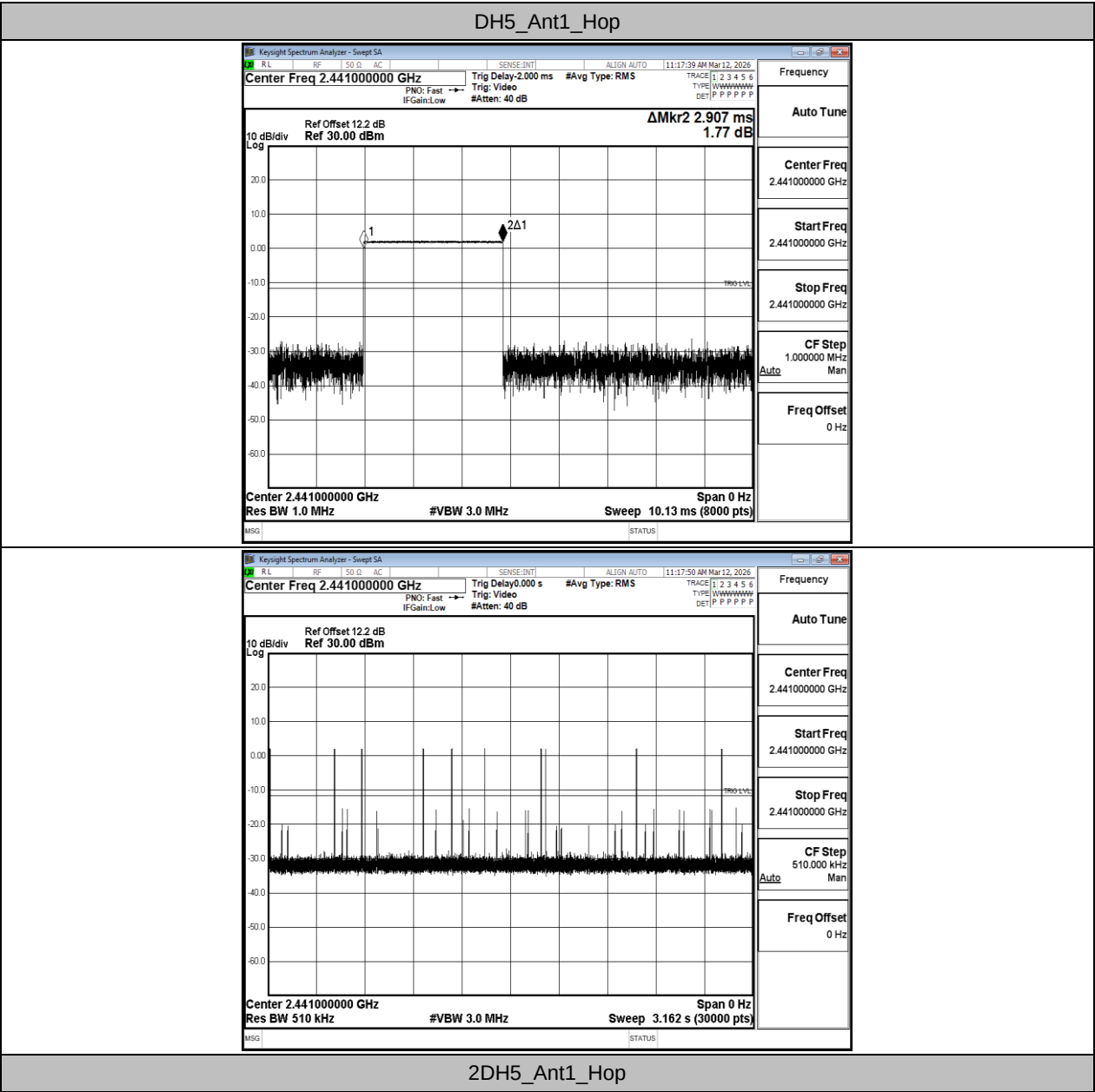


A.4 Time of occupancy

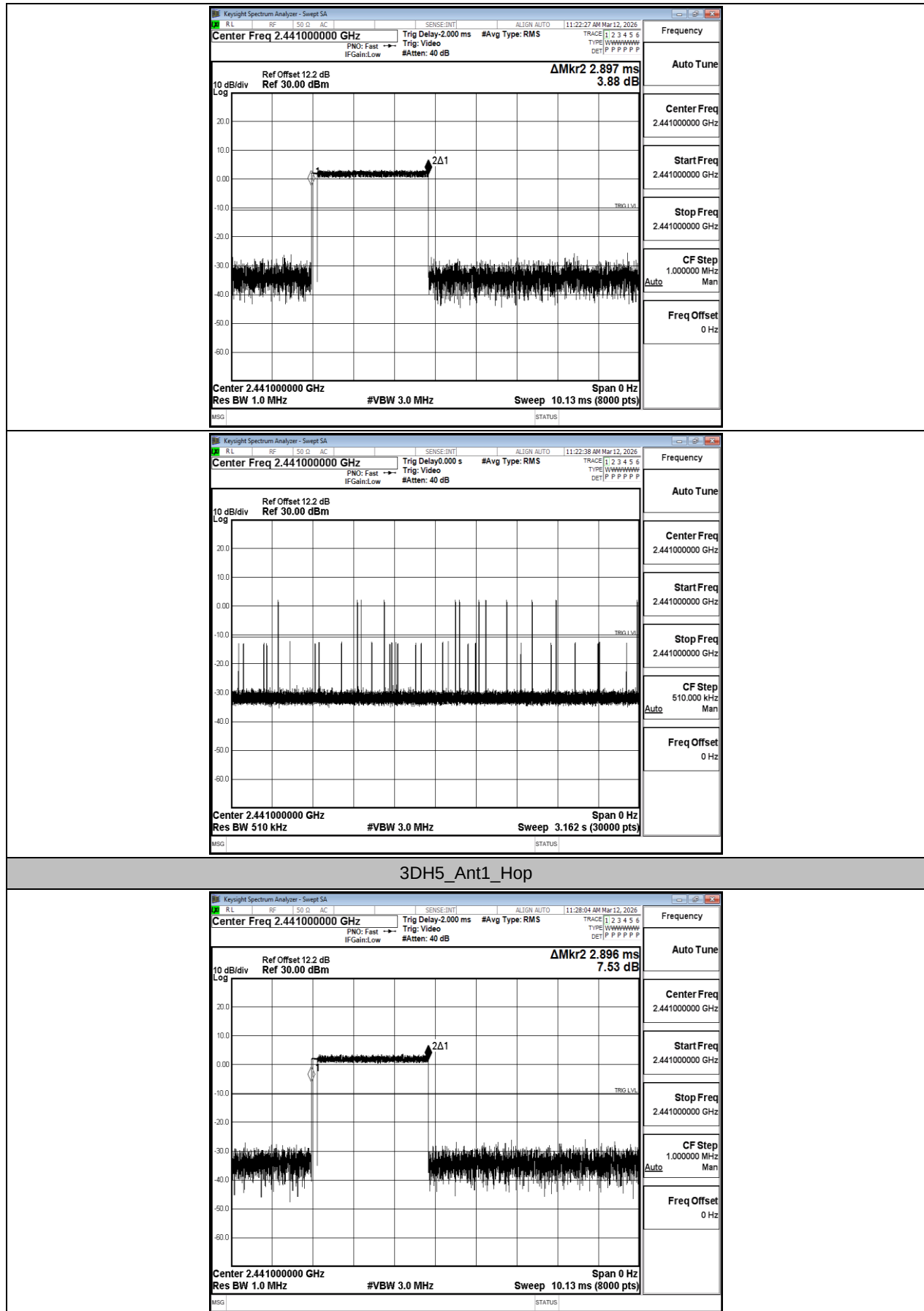
Test Result

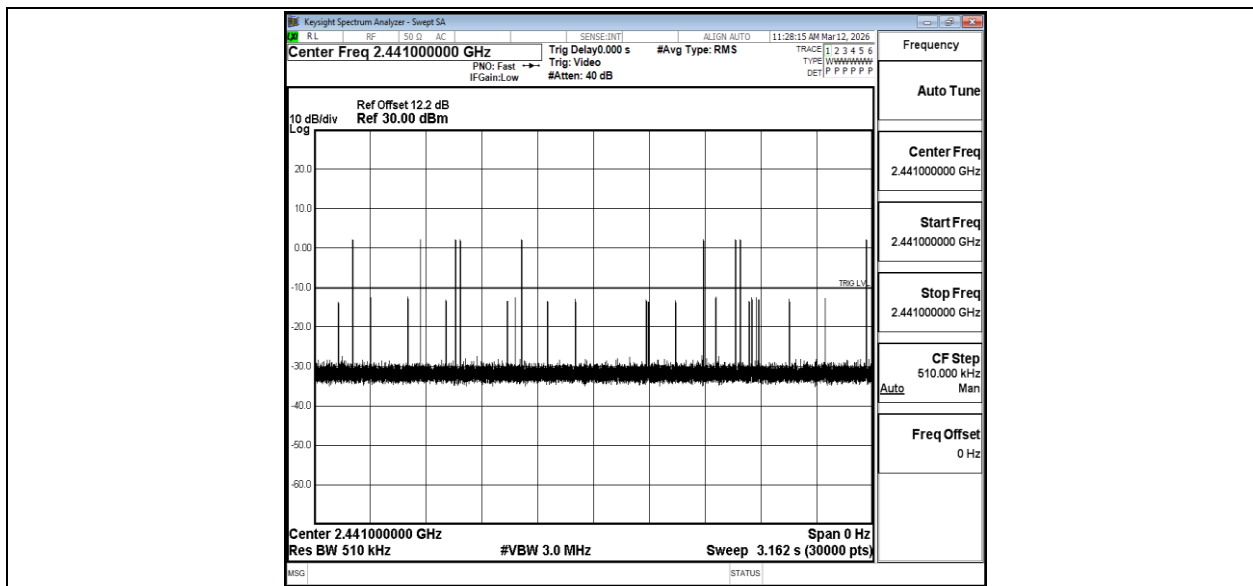
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.897	130	0.377	≤0.4	PASS
3DH5	Ant1	Hop	2.896	100	0.29	≤0.4	PASS

Test Graphs



2DH5_Ant1_Hop



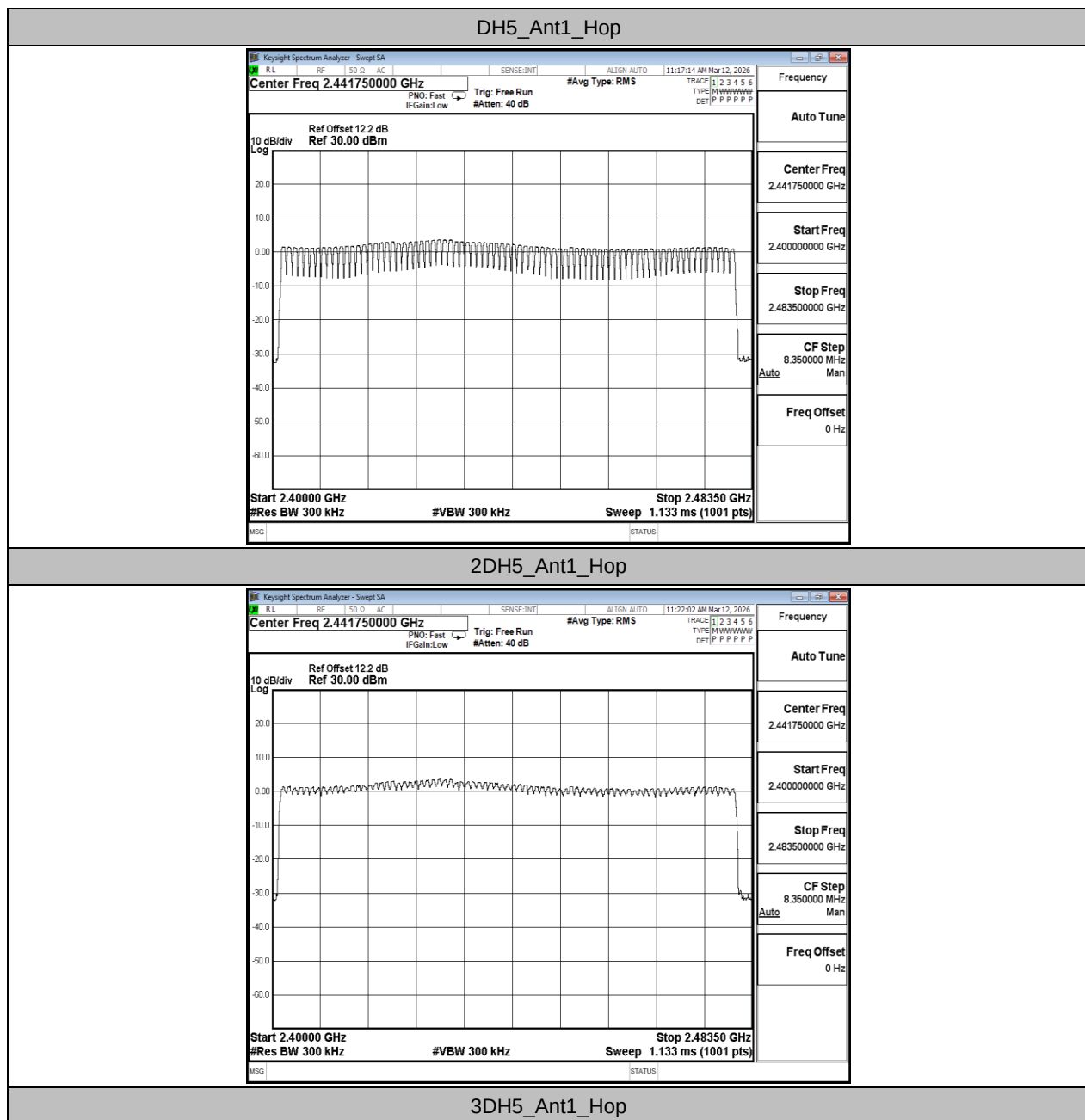


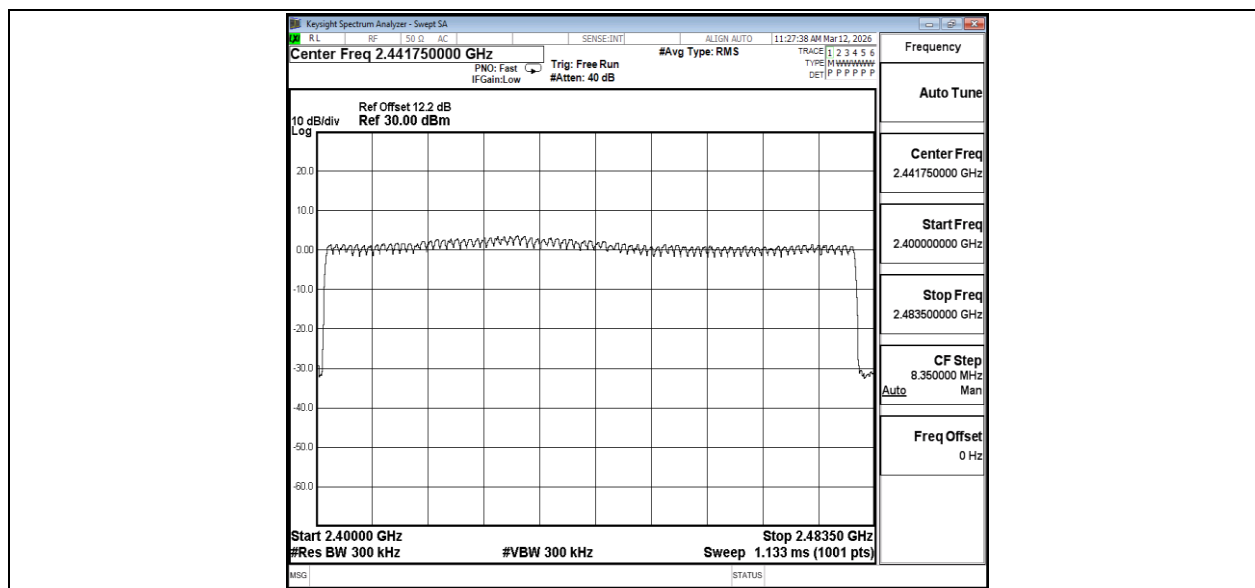
A.5 Number of hopping channels

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



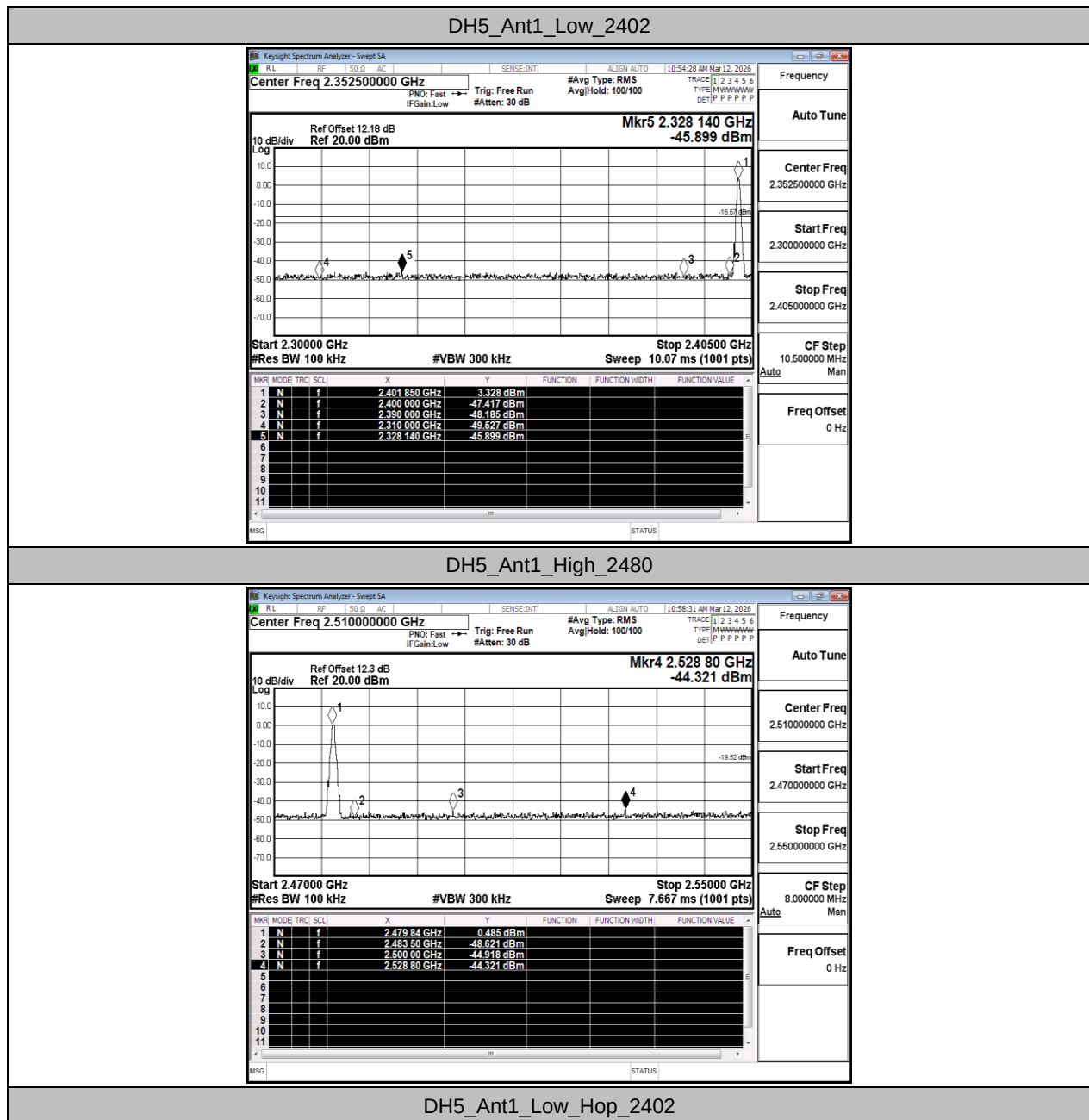


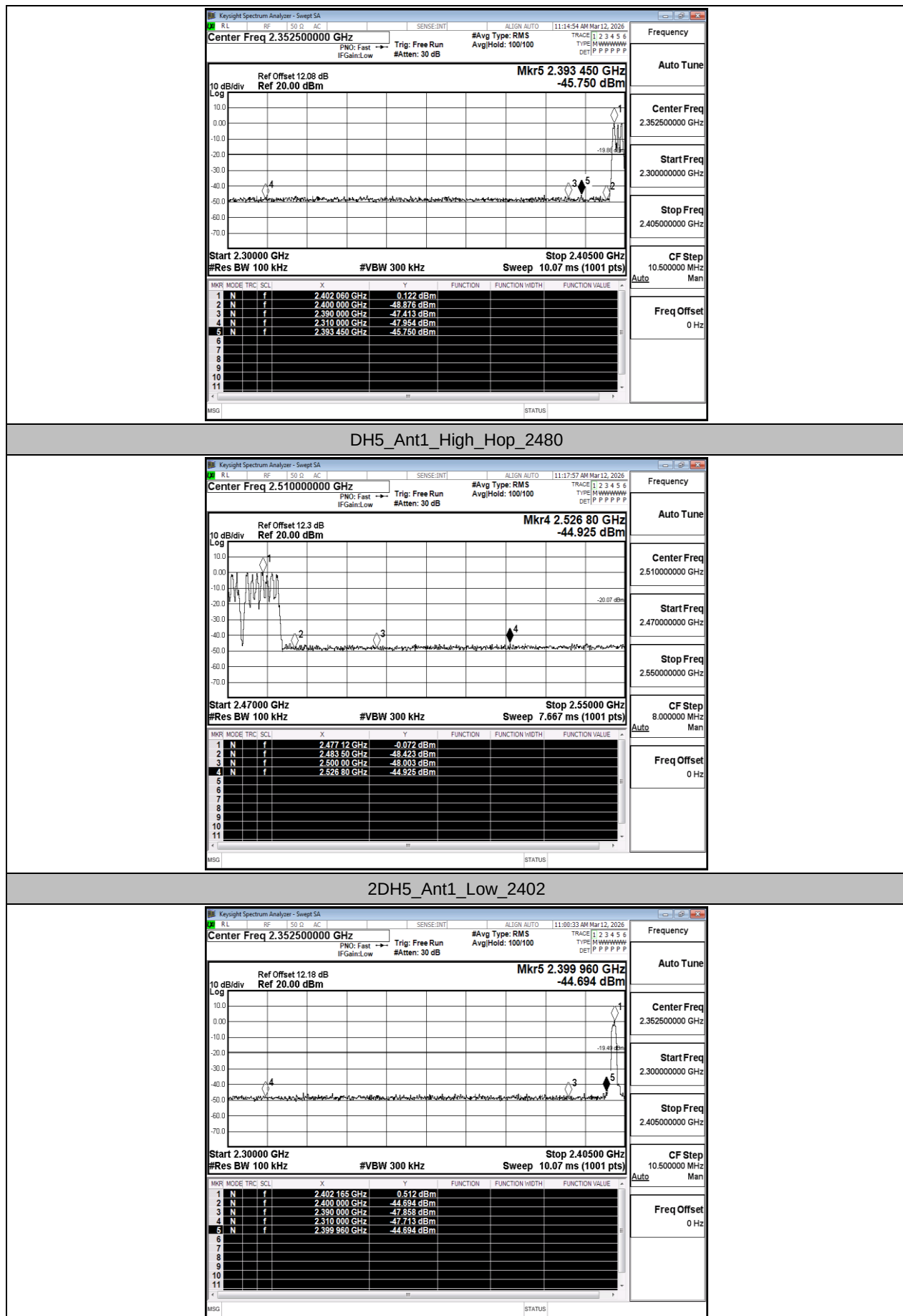
A.6 Band edge measurements

Test Result

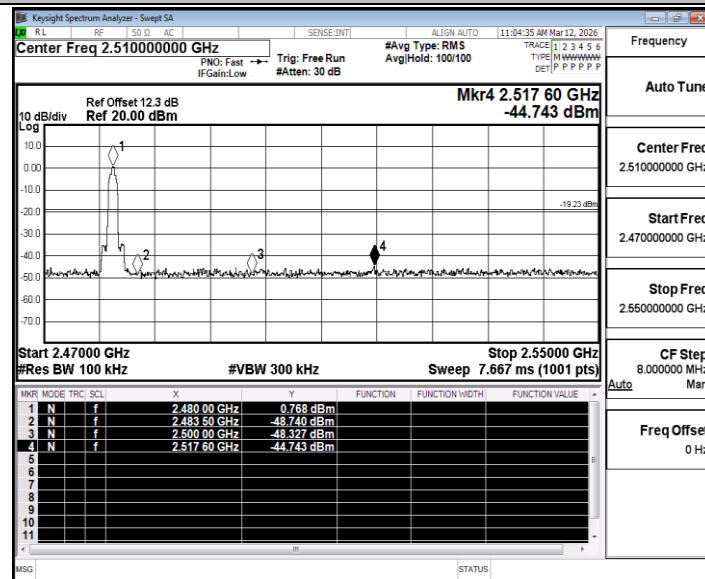
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.33	-45.9	≤-16.67	PASS
		High	2480	0.49	-44.32	≤-19.52	PASS
		Low	Hop_2402	0.12	-45.75	≤-19.88	PASS
		High	Hop_2480	-0.07	-44.93	≤-20.07	PASS
2DH5	Ant1	Low	2402	0.51	-44.69	≤-19.49	PASS
		High	2480	0.77	-44.74	≤-19.23	PASS
		Low	Hop_2402	-3.94	-45.76	≤-23.94	PASS
		High	Hop_2480	-0.05	-44.86	≤-20.05	PASS
3DH5	Ant1	Low	2402	0.98	-45.25	≤-19.02	PASS
		High	2480	-1.19	-43.76	≤-21.19	PASS
		Low	Hop_2402	0.93	-46.12	≤-19.07	PASS
		High	Hop_2480	-1.19	-45.22	≤-21.19	PASS

Test Graphs

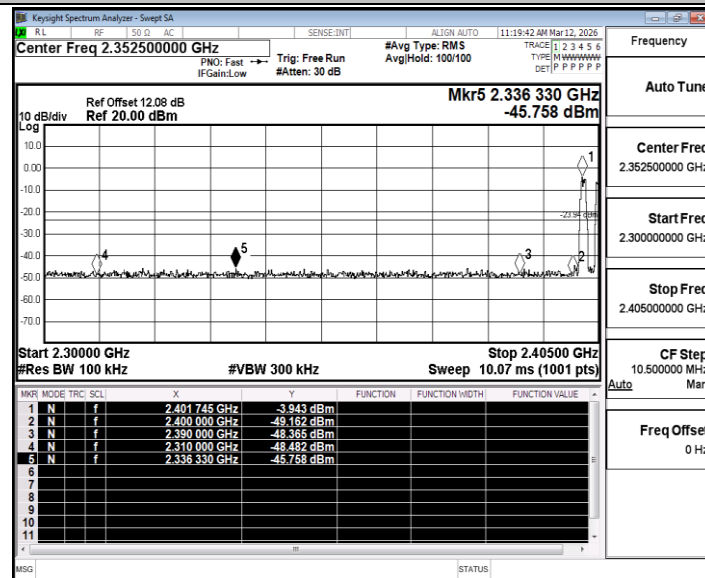




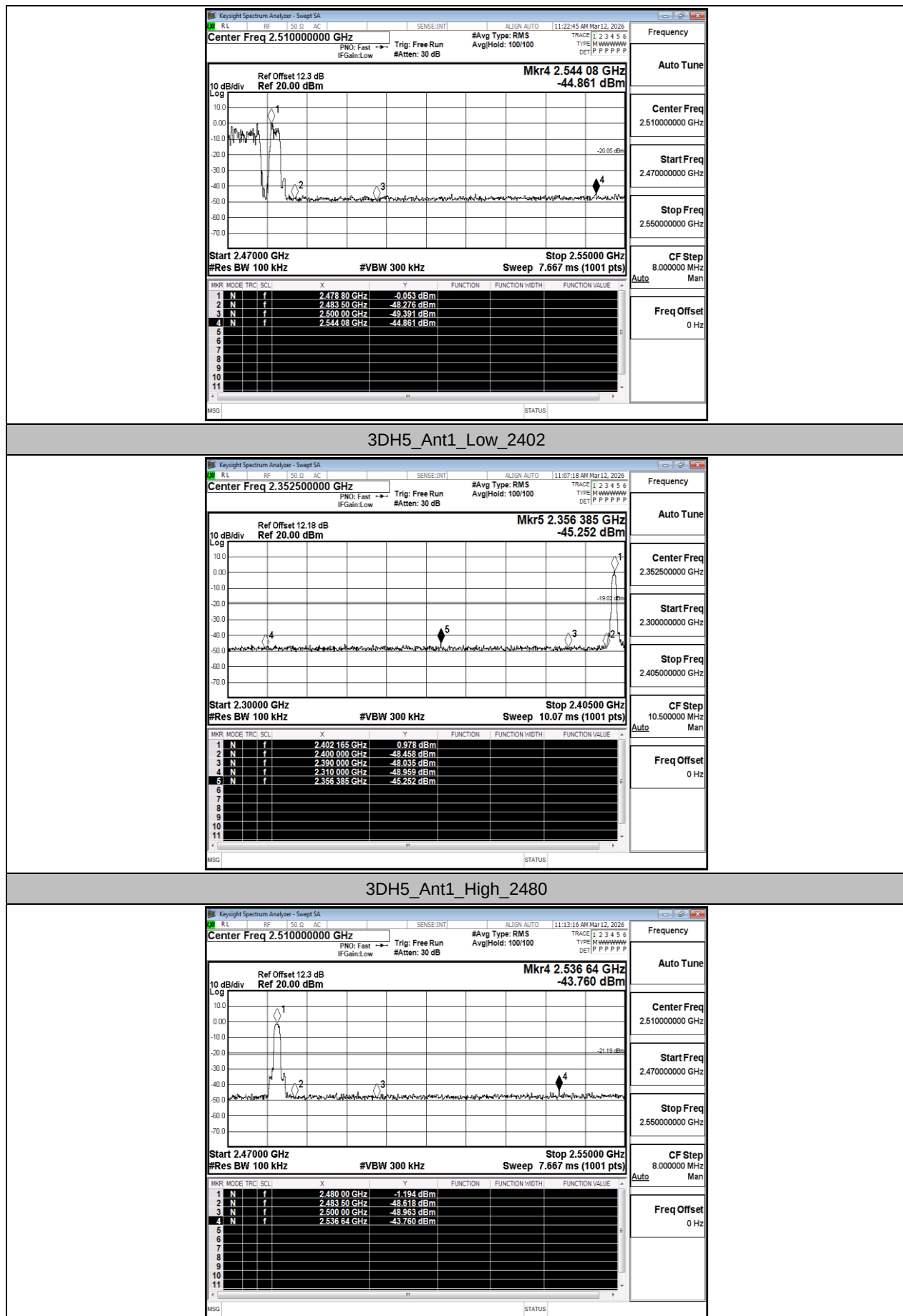
2DH5_Ant1_High_2480



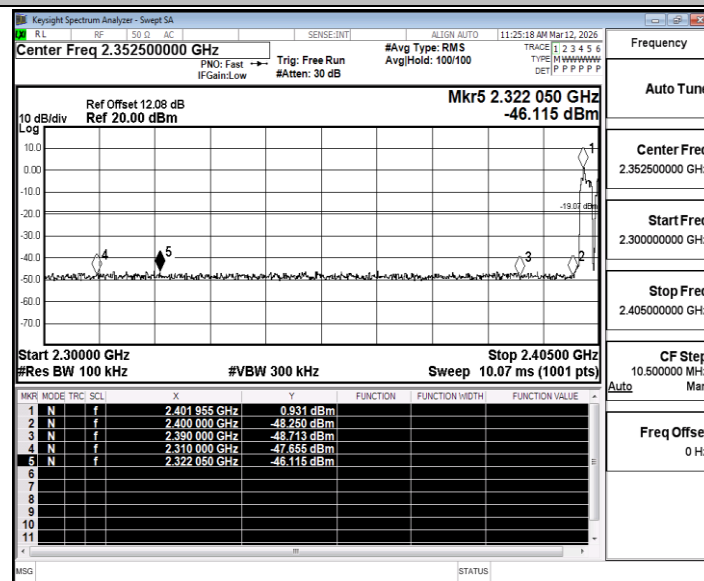
2DH5_Ant1_Low_Hop_2402



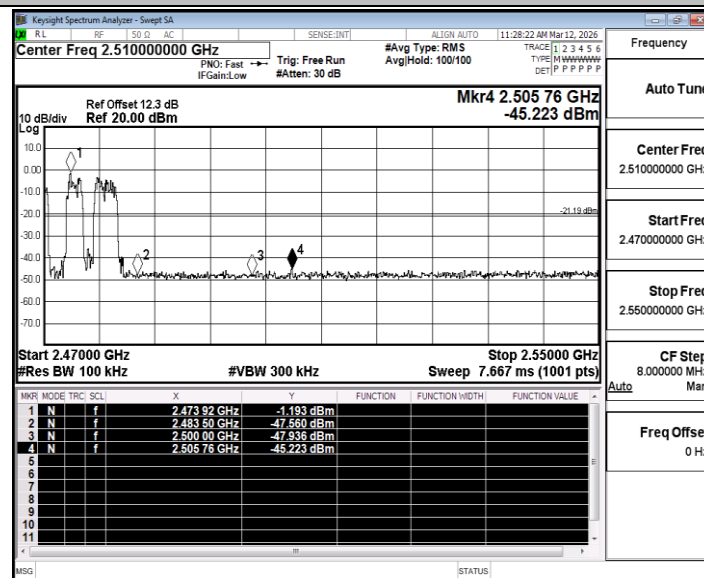
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

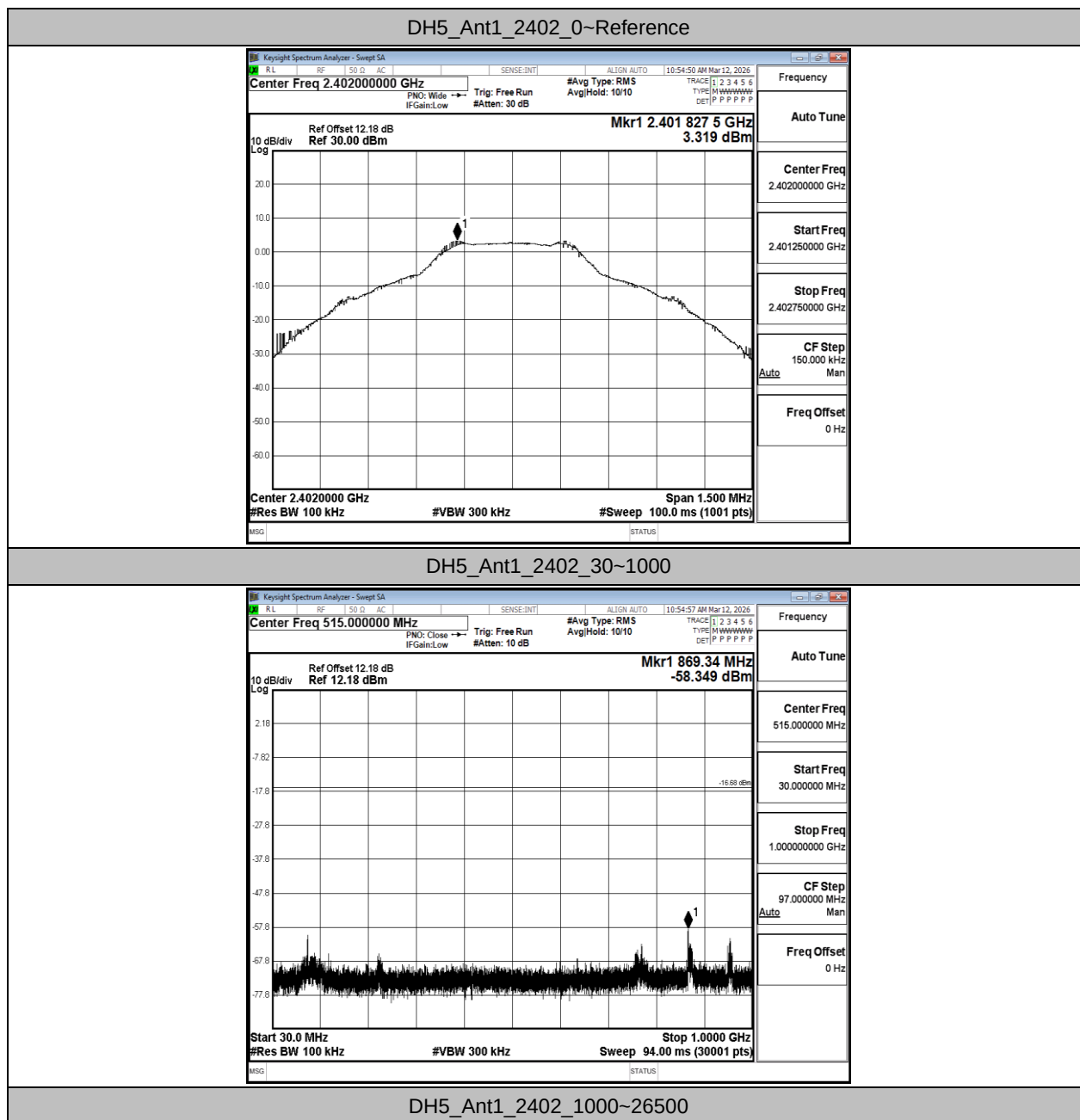


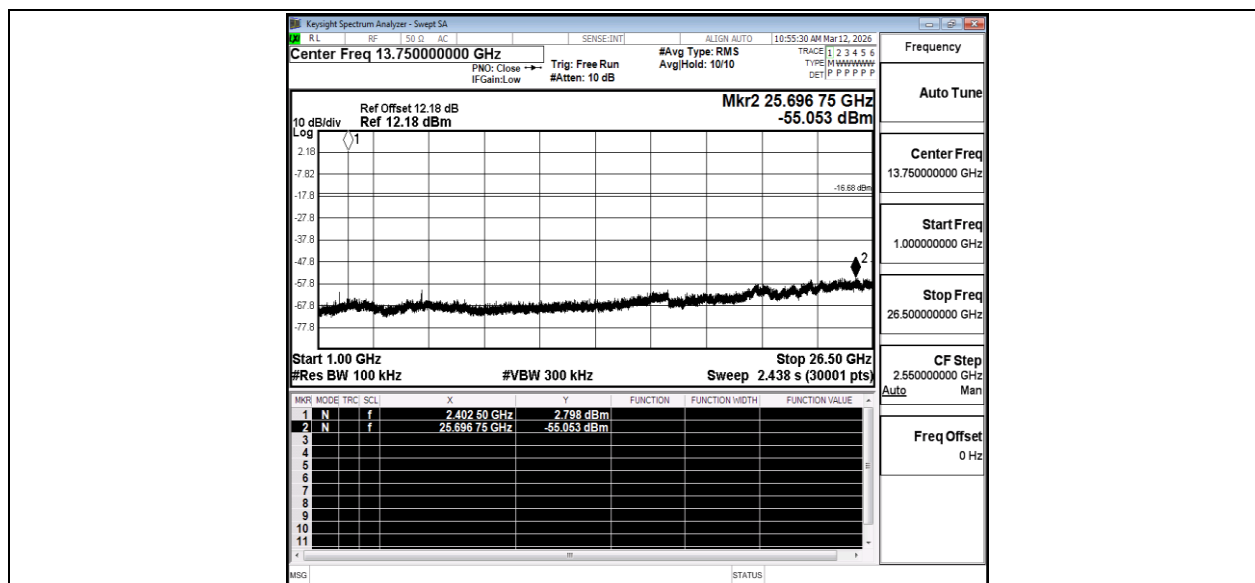
A.7 Conducted Spurious Emission

Test Result

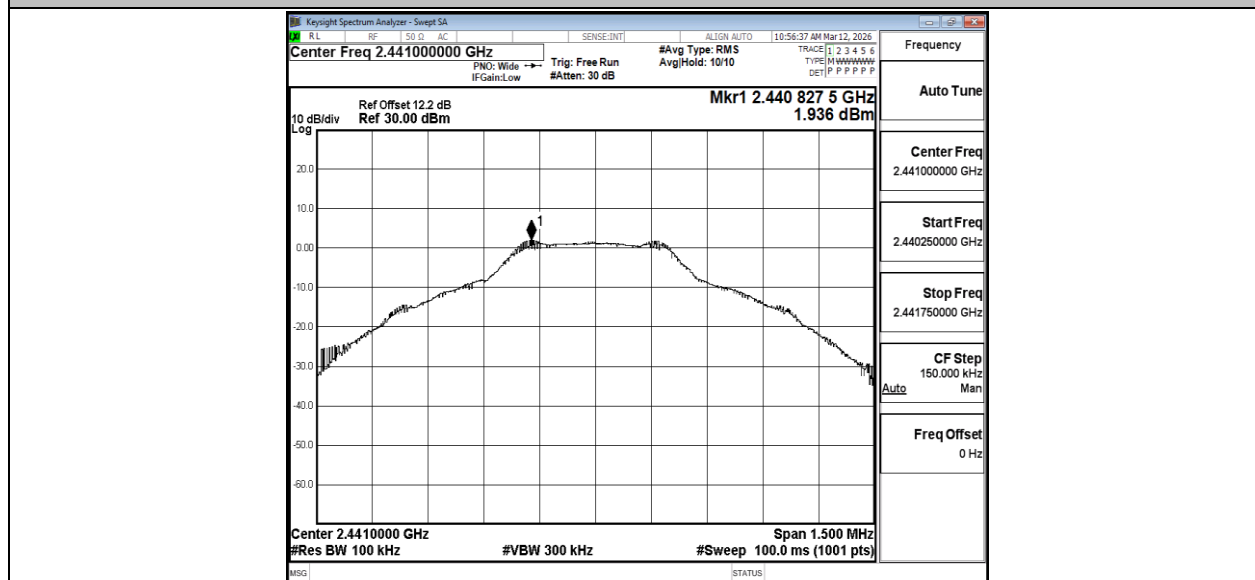
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-58.35	≤-16.68	PASS
			1000~26500	3.32	-55.05	≤-16.68	PASS
		2441	Reference	1.94	1.94	---	PASS
			30~1000	1.94	-60.42	≤-18.06	PASS
			1000~26500	1.94	-54.52	≤-18.06	PASS
		2480	Reference	0.69	0.69	---	PASS
			30~1000	0.69	-59.65	≤-19.31	PASS
			1000~26500	0.69	-54.48	≤-19.31	PASS
2DH5	Ant1	2402	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-60.18	≤-18.97	PASS
			1000~26500	1.03	-53.78	≤-18.97	PASS
		2441	Reference	1.82	1.82	---	PASS
			30~1000	1.82	-59.24	≤-18.18	PASS
			1000~26500	1.82	-50.23	≤-18.18	PASS
		2480	Reference	0.60	0.60	---	PASS
			30~1000	0.60	-60.19	≤-19.4	PASS
			1000~26500	0.60	-53.81	≤-19.4	PASS
3DH5	Ant1	2402	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-60.51	≤-18.75	PASS
			1000~26500	1.25	-54.93	≤-18.75	PASS
		2441	Reference	2.07	2.07	---	PASS
			30~1000	2.07	-61.87	≤-17.93	PASS
			1000~26500	2.07	-54.41	≤-17.93	PASS
		2480	Reference	0.84	0.84	---	PASS
			30~1000	0.84	-59.81	≤-19.16	PASS
			1000~26500	0.84	-54.39	≤-19.16	PASS

Test Graphs

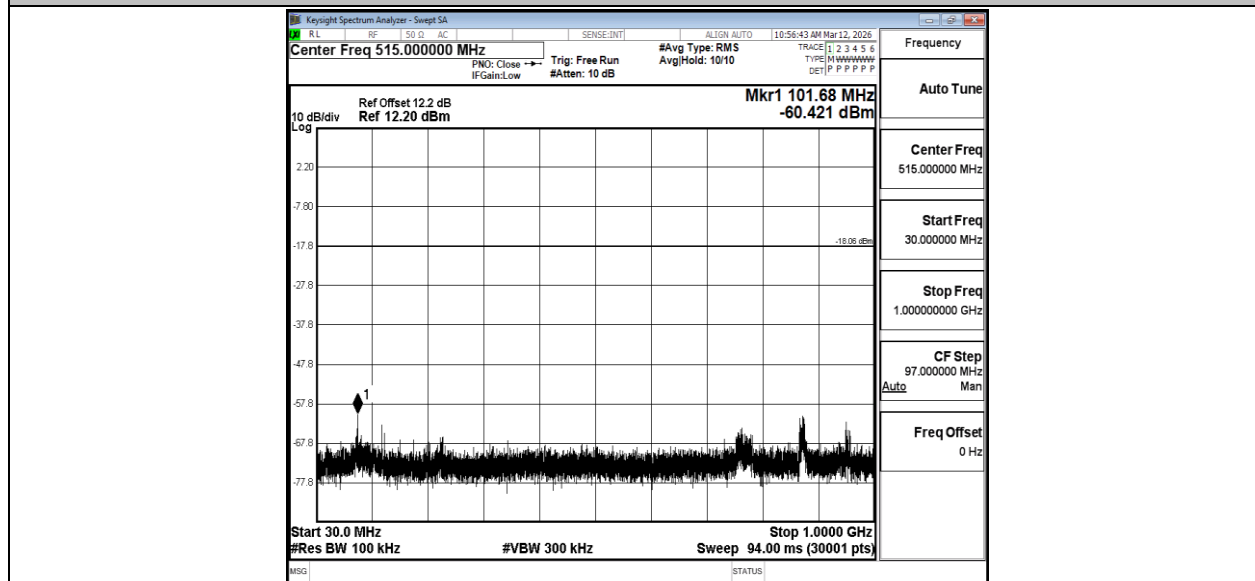




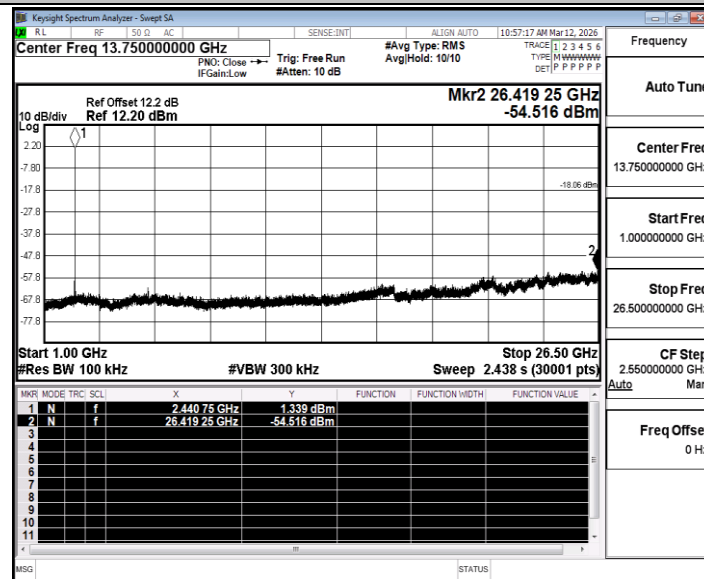
DH5_Ant1_2441_0~Reference



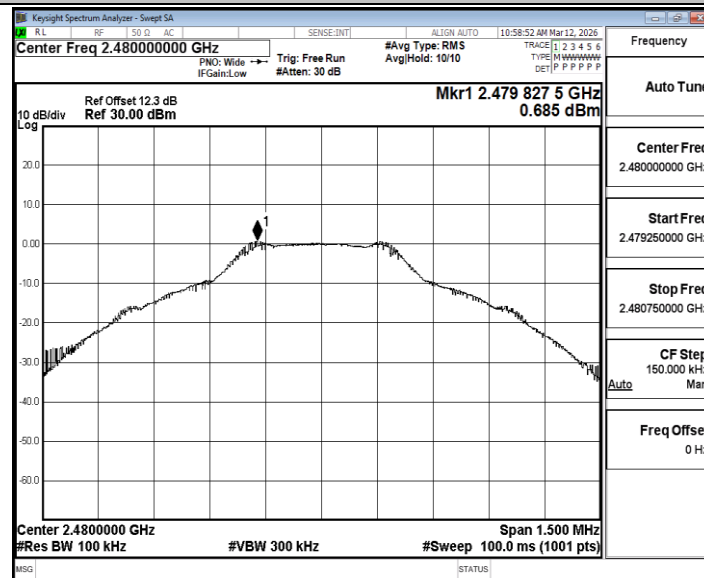
DH5_Ant1_2441_30~1000



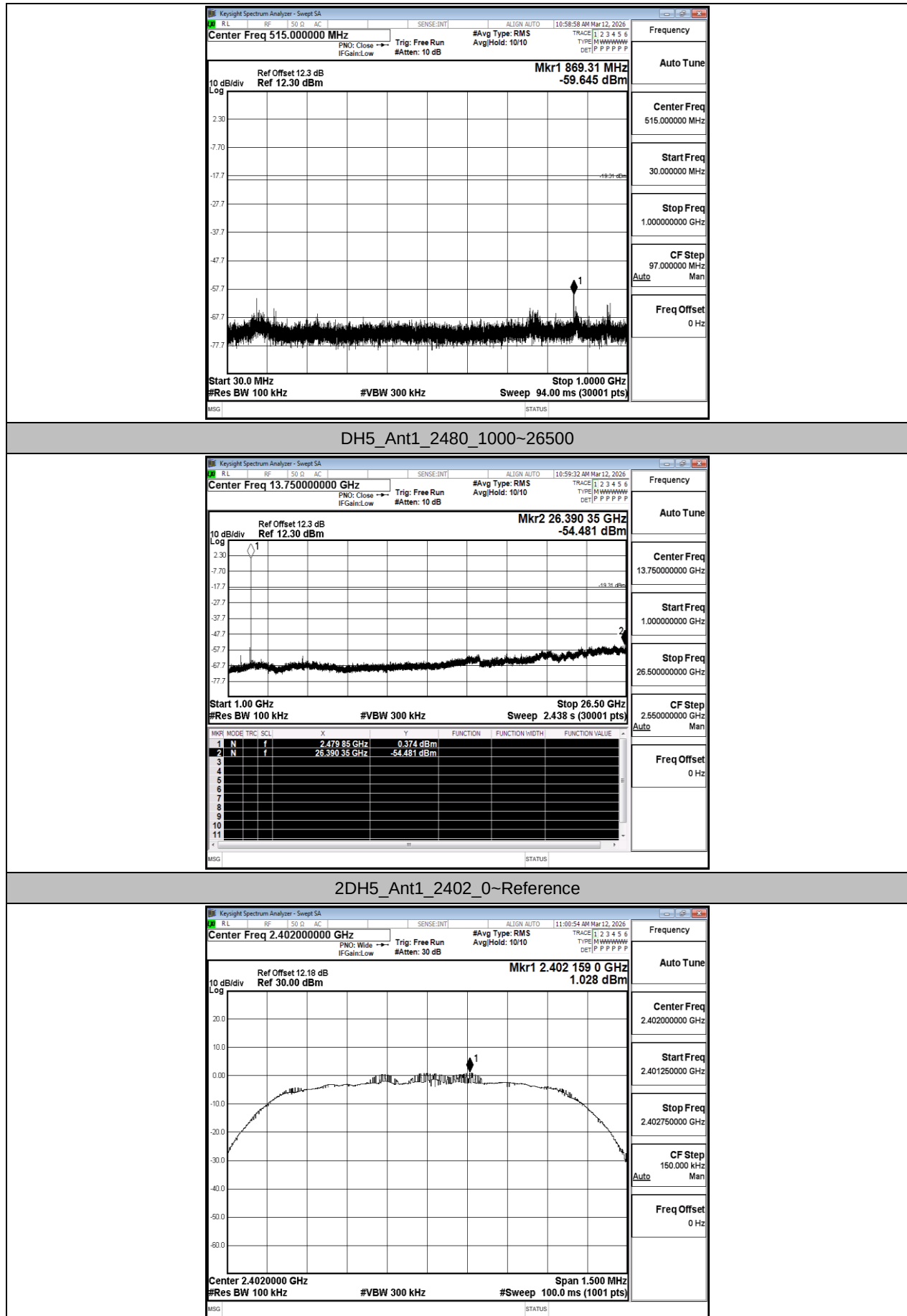
DH5_Ant1_2441_1000~26500



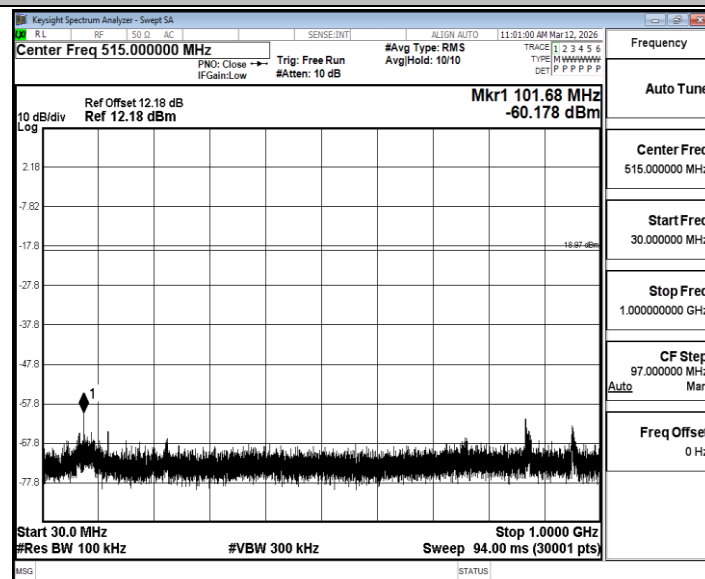
DH5_Ant1_2480_0~Reference



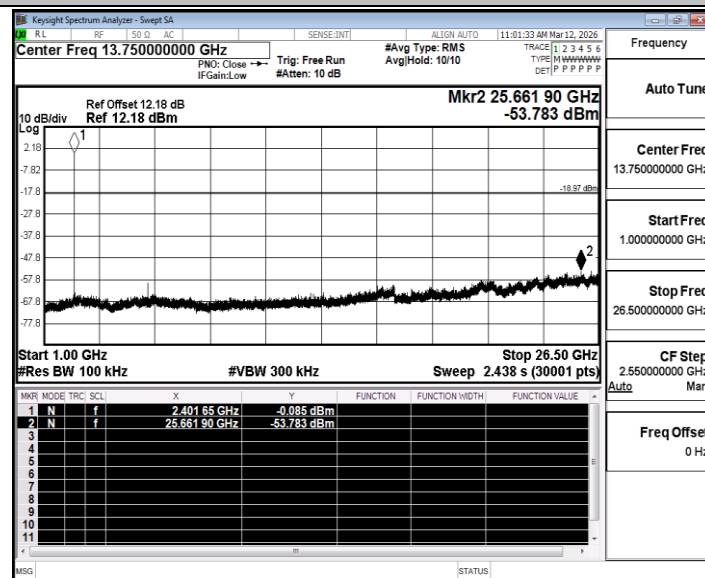
DH5_Ant1_2480_30~1000



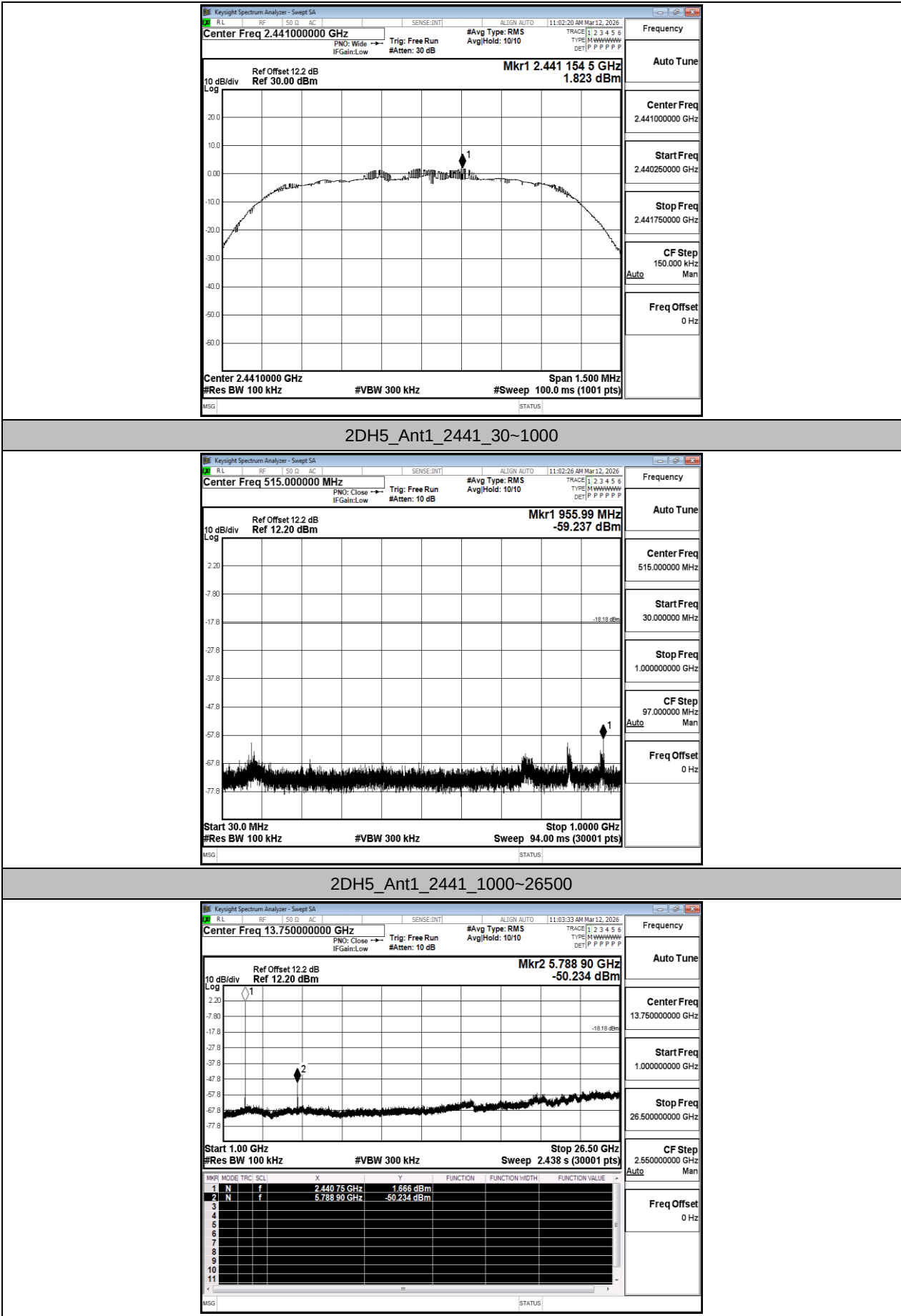
2DH5_Ant1_2402_30~1000



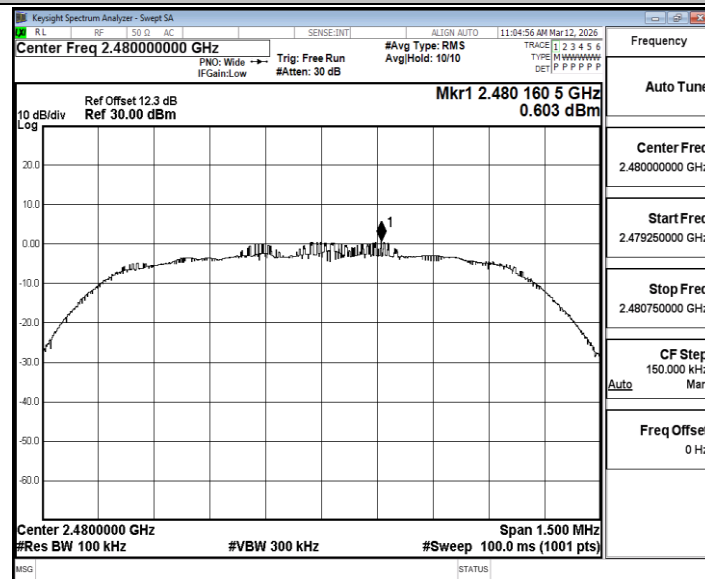
2DH5_Ant1_2402_1000~26500



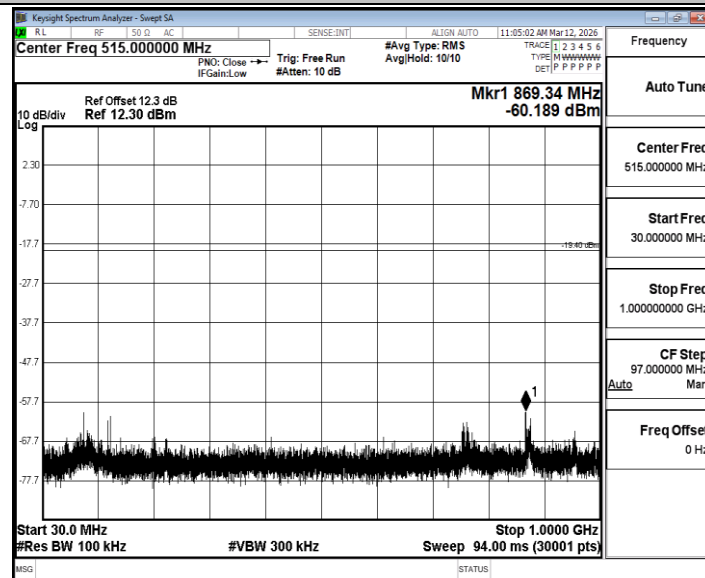
2DH5_Ant1_2441_0~Reference



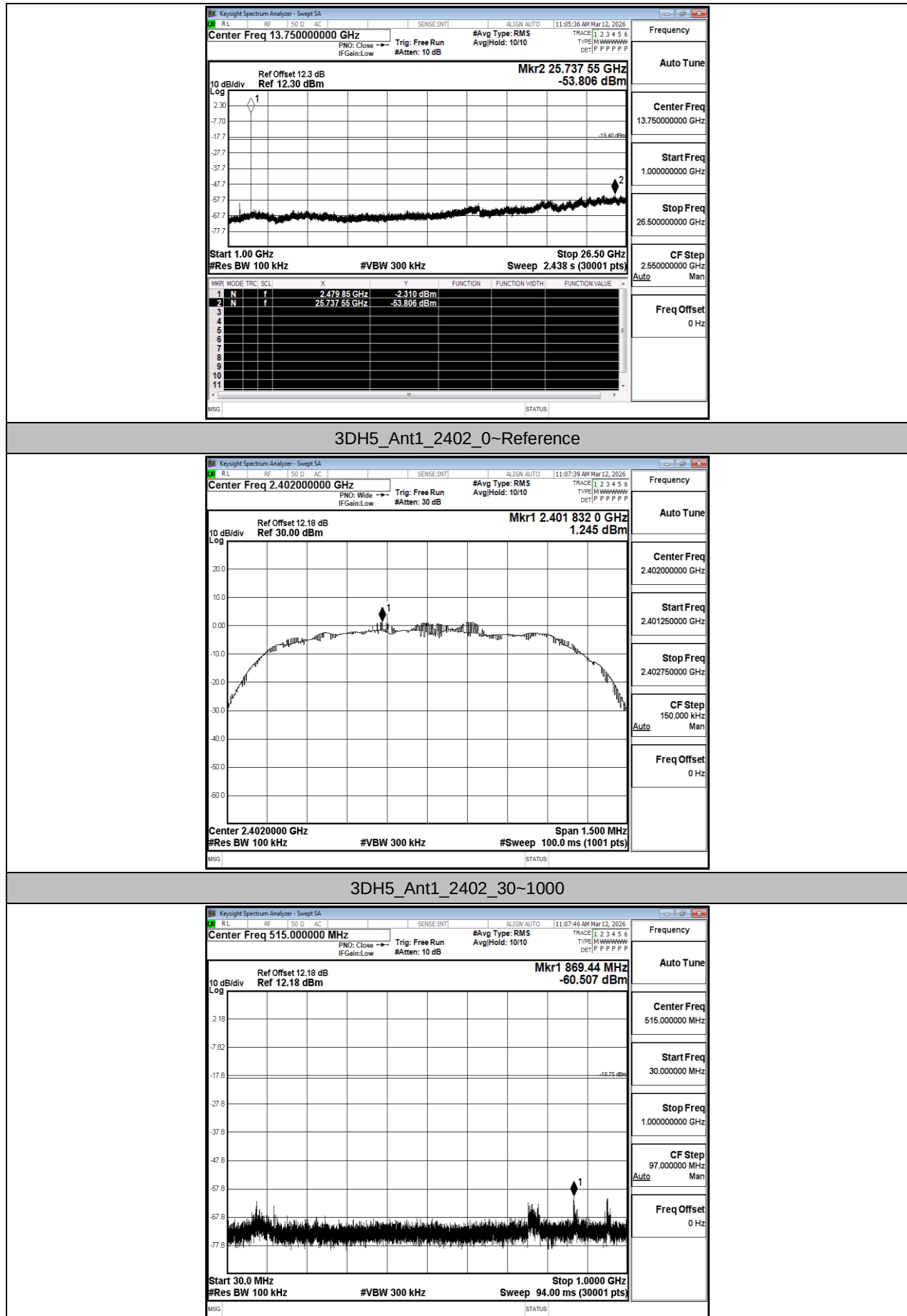
2DH5_Ant1_2480_0~Reference



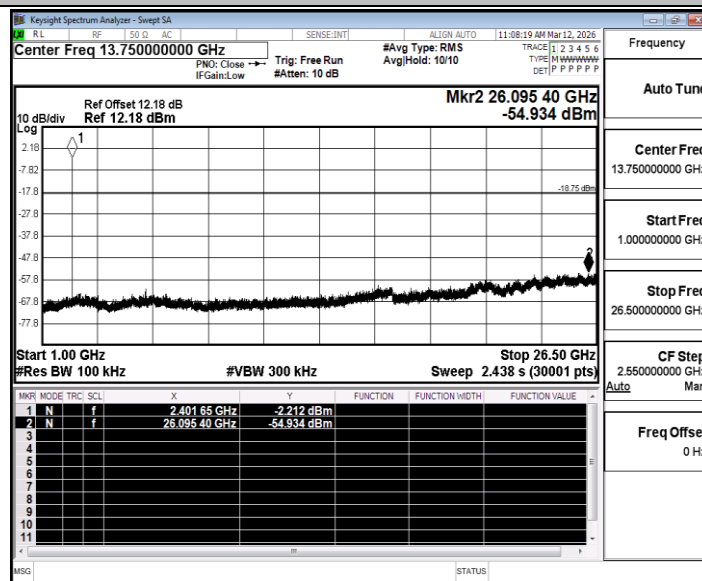
2DH5_Ant1_2480_30~1000



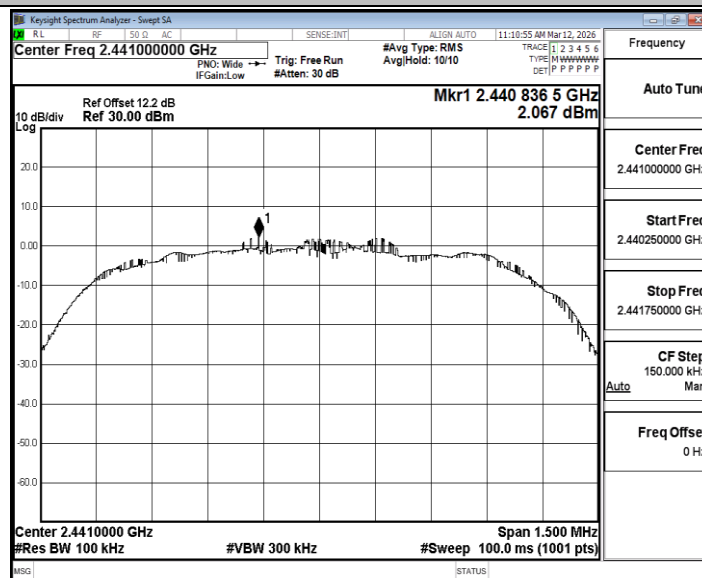
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000