

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Earphone

Test Model: Neo 1a

Environmental Conditions

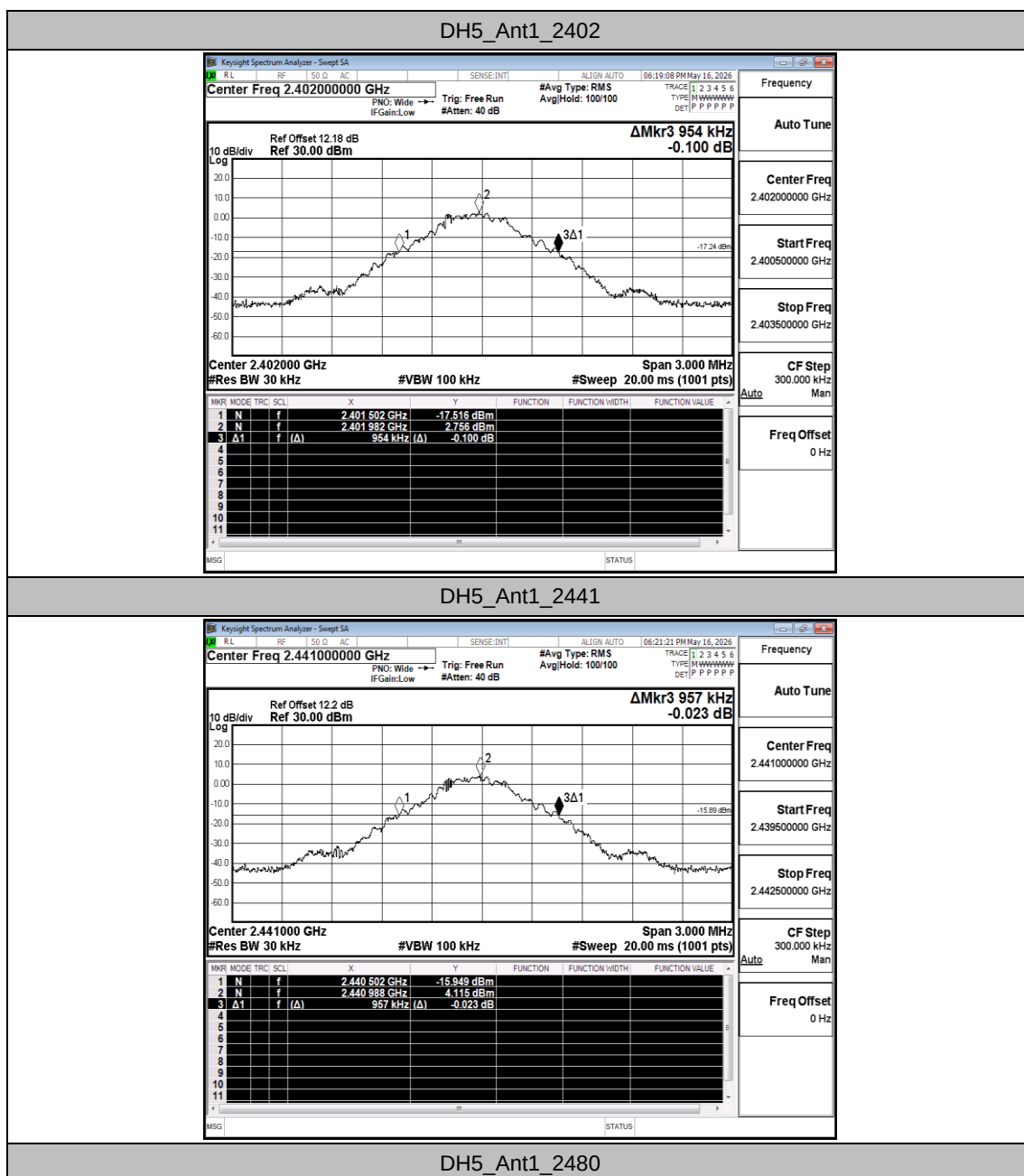
Temperature:	23.5°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

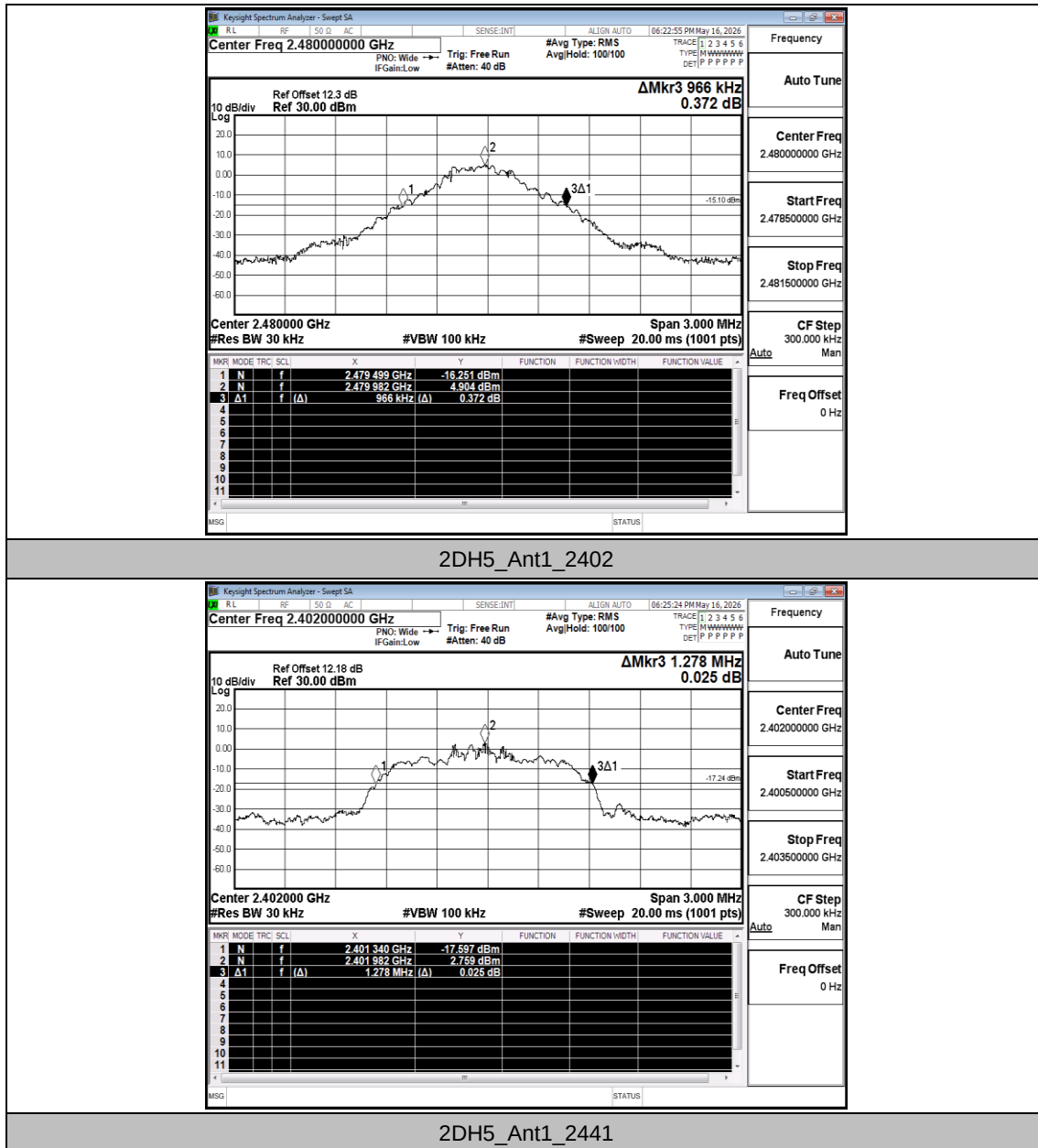
A.1 20dB Emission Bandwidth

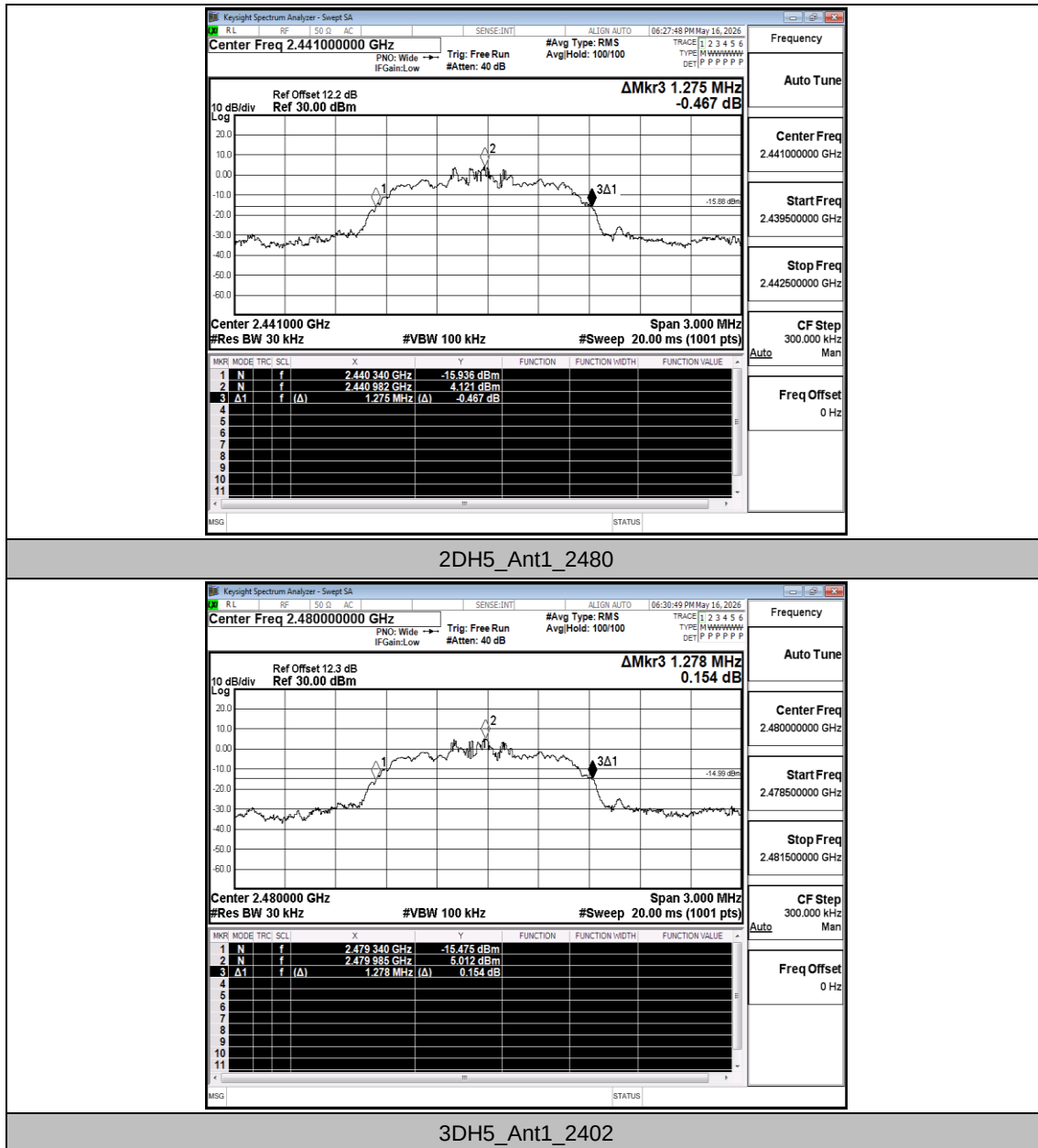
Test Result

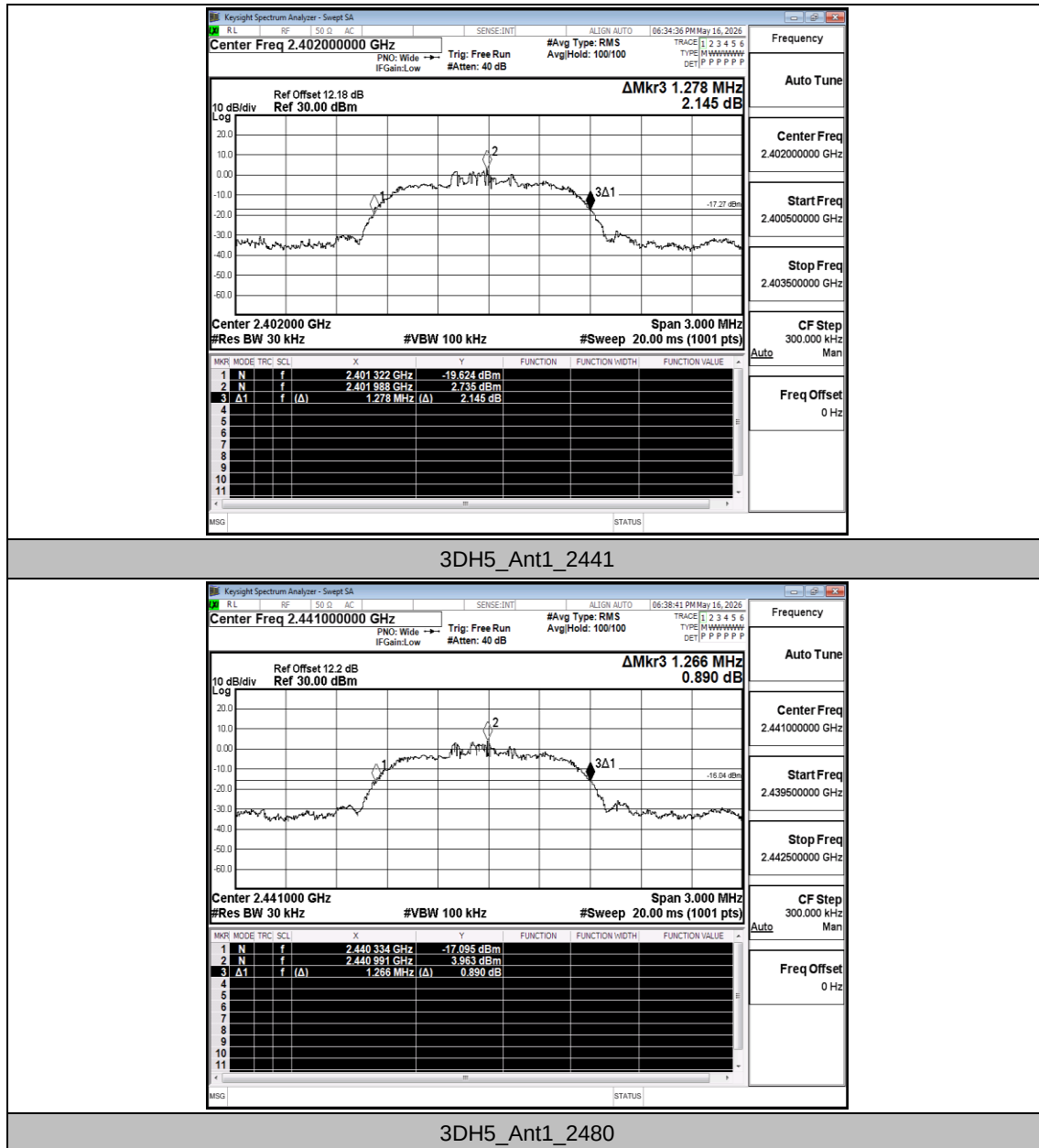
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.502	2402.456	---	---
		2441	0.957	2440.502	2441.459	---	---
		2480	0.966	2479.499	2480.465	---	---
2DH5	Ant1	2402	1.278	2401.340	2402.618	---	---
		2441	1.275	2440.340	2441.615	---	---
		2480	1.278	2479.340	2480.618	---	---
3DH5	Ant1	2402	1.278	2401.322	2402.600	---	---
		2441	1.266	2440.334	2441.600	---	---
		2480	1.275	2479.322	2480.597	---	---

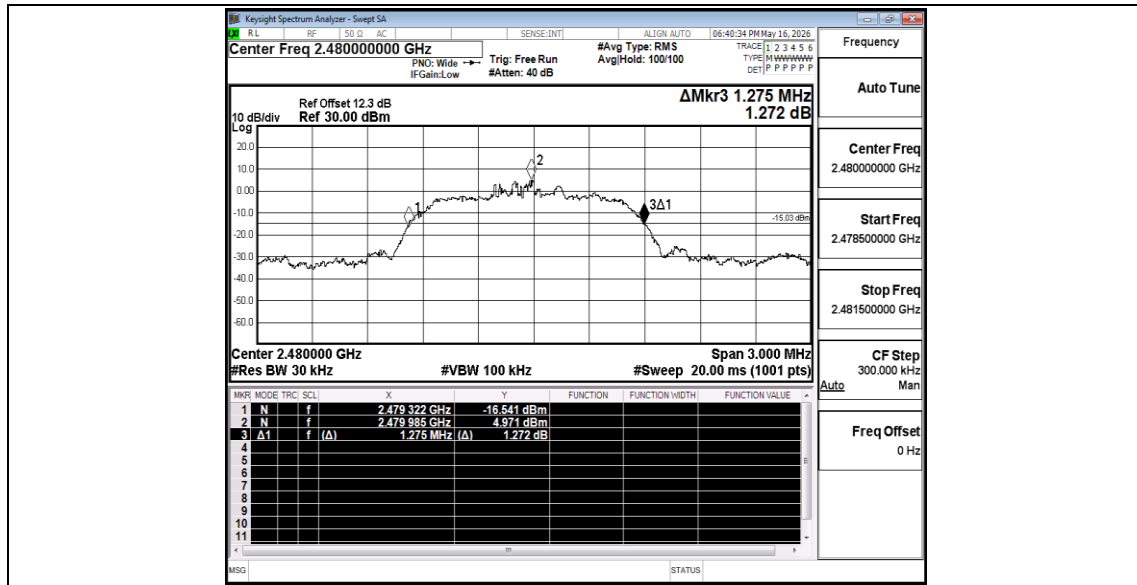
Test Graphs









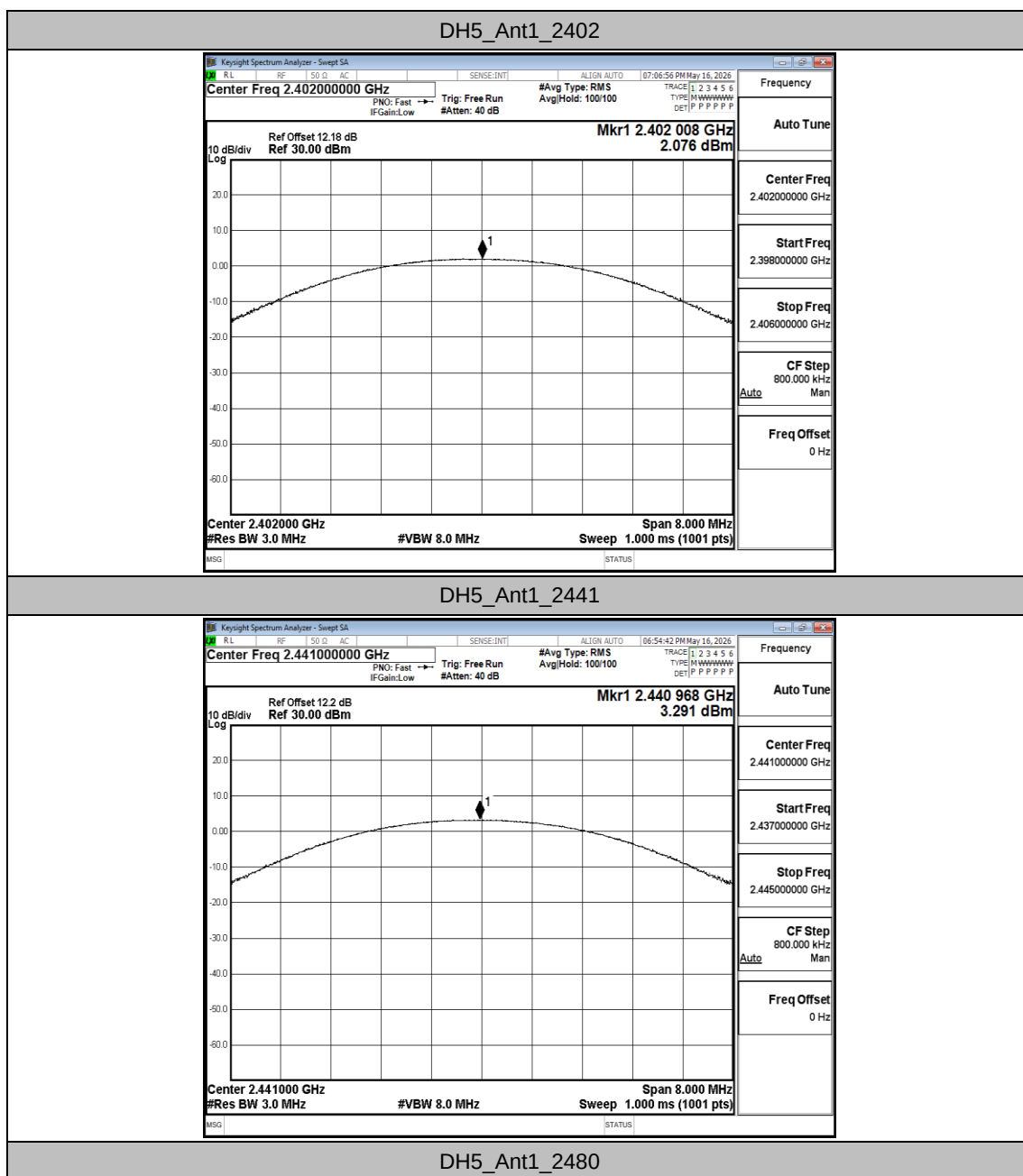


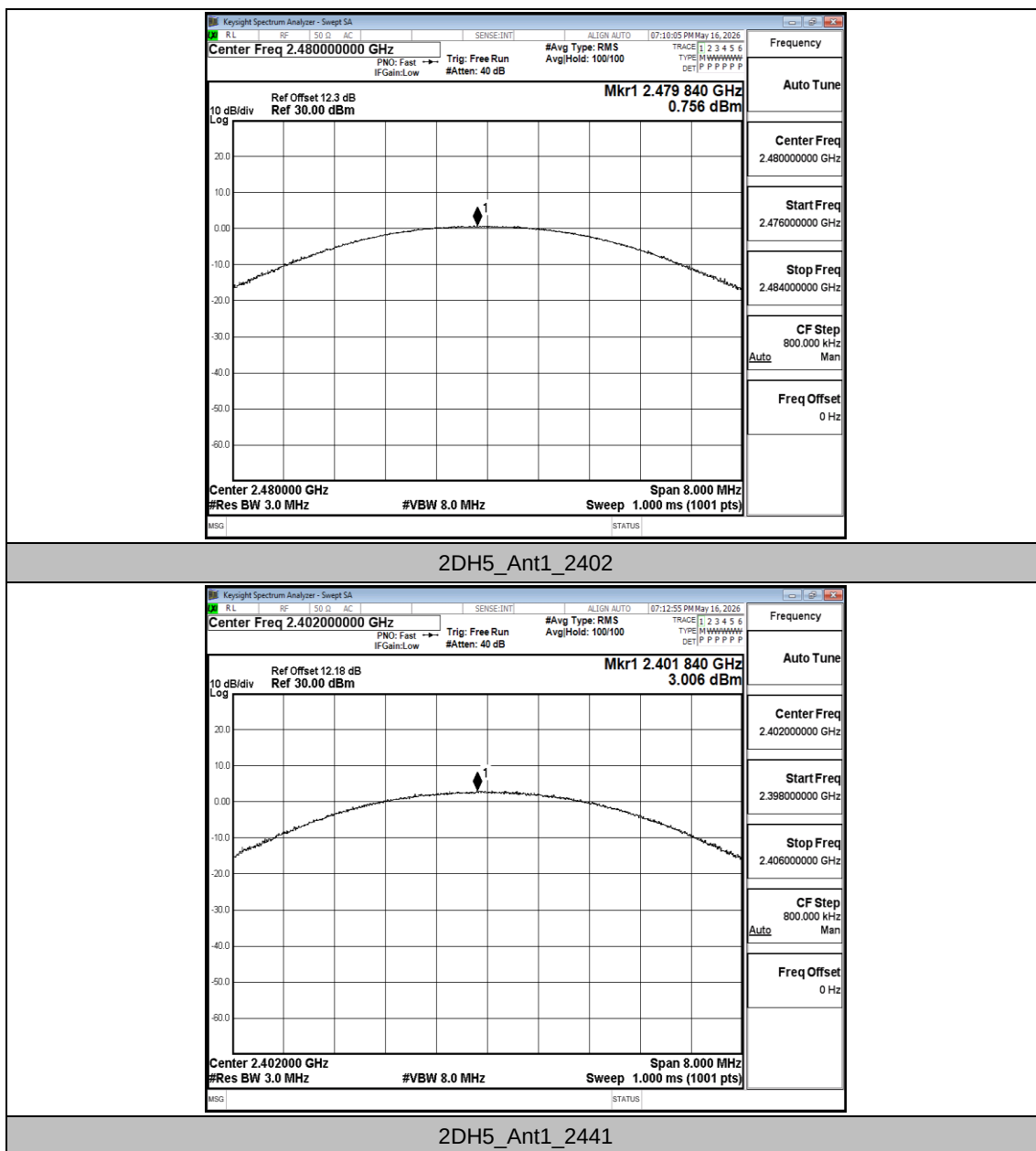
A.2 Maximum Peak conducted output power

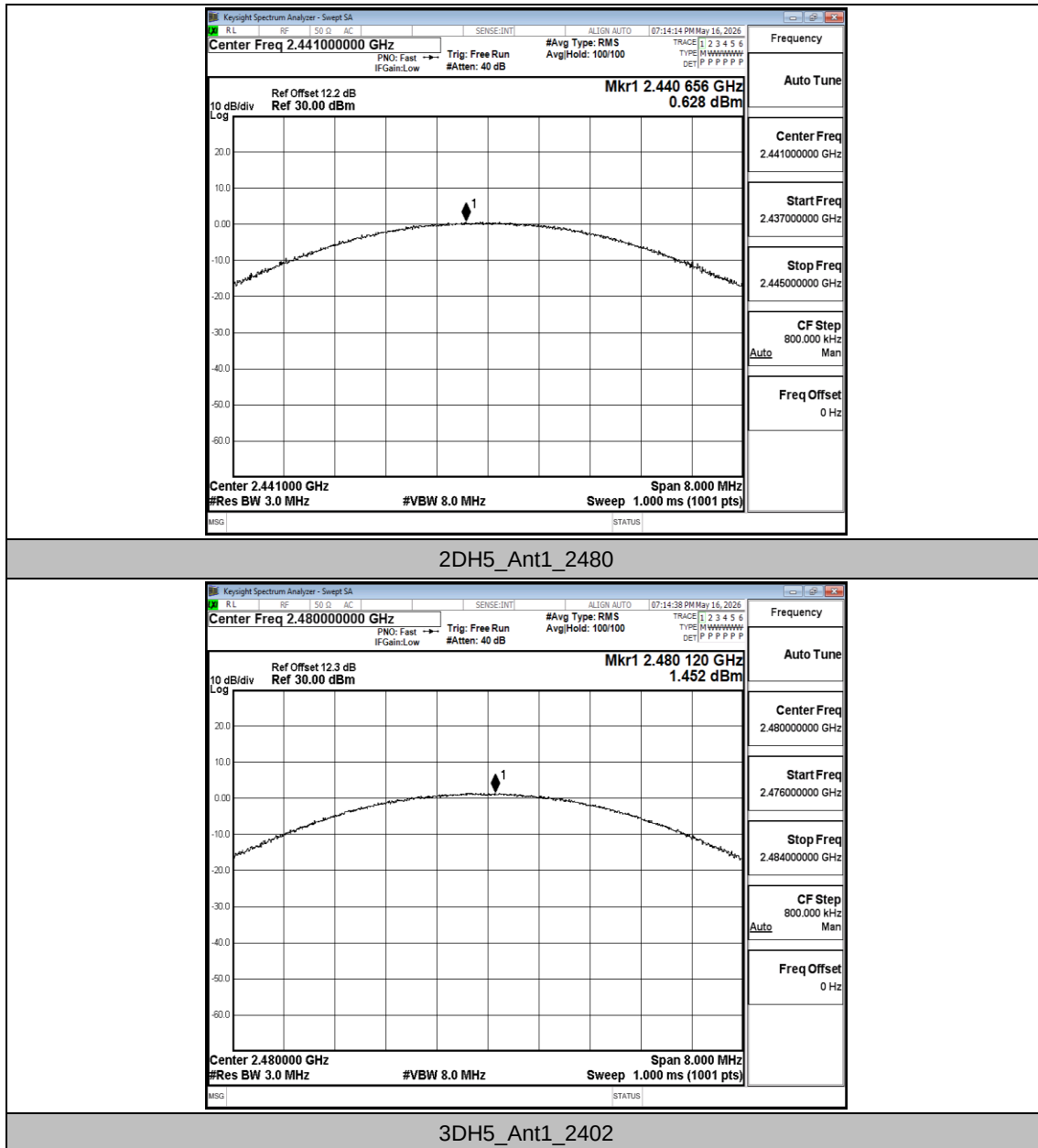
Test Result Peak

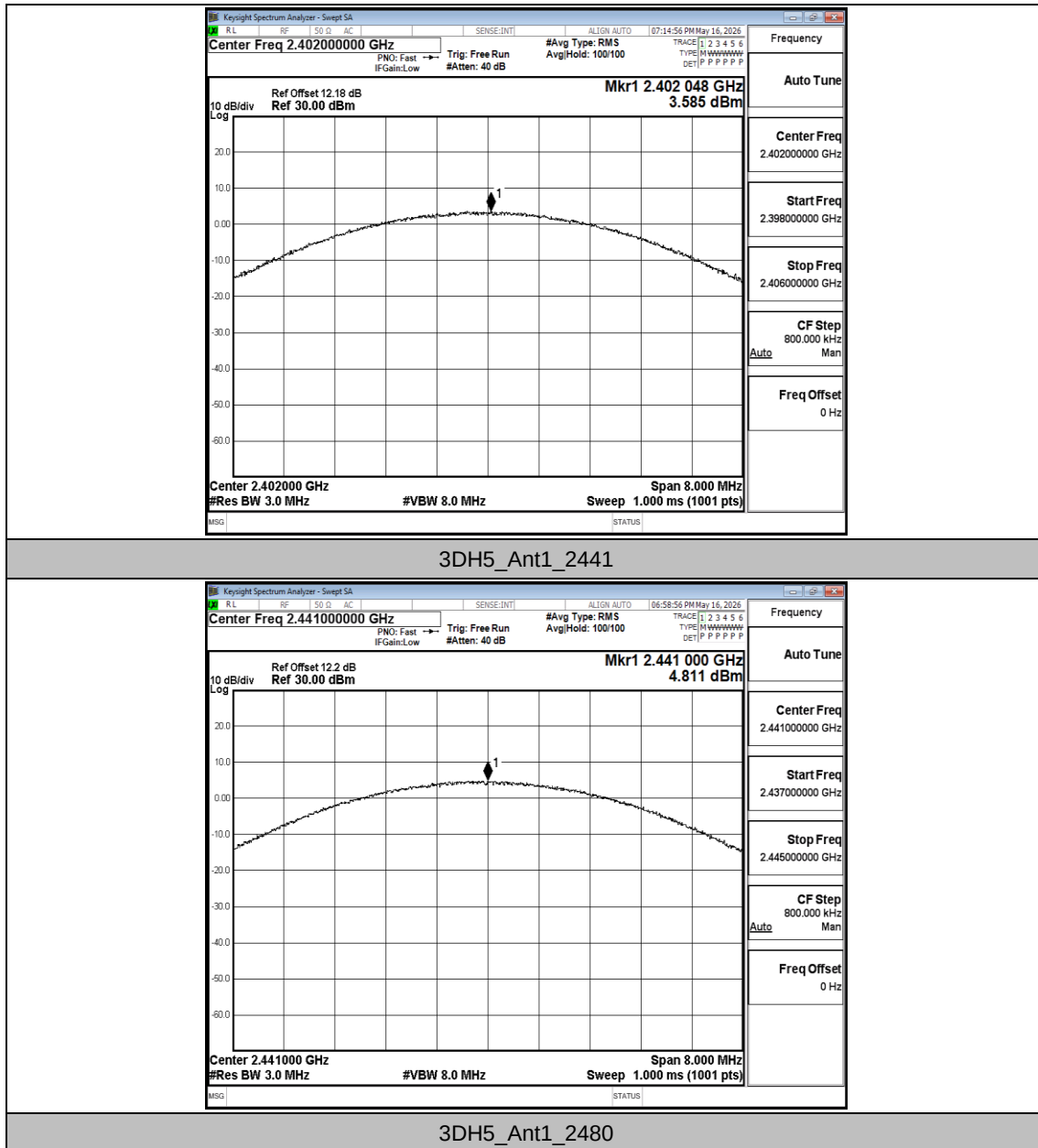
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.08	≤21	PASS
		2441	3.29	≤21	PASS
		2480	0.76	≤21	PASS
2DH5	Ant1	2402	3.01	≤21	PASS
		2441	0.63	≤21	PASS
		2480	1.45	≤21	PASS
3DH5	Ant1	2402	3.59	≤21	PASS
		2441	4.81	≤21	PASS
		2480	1.91	≤21	PASS

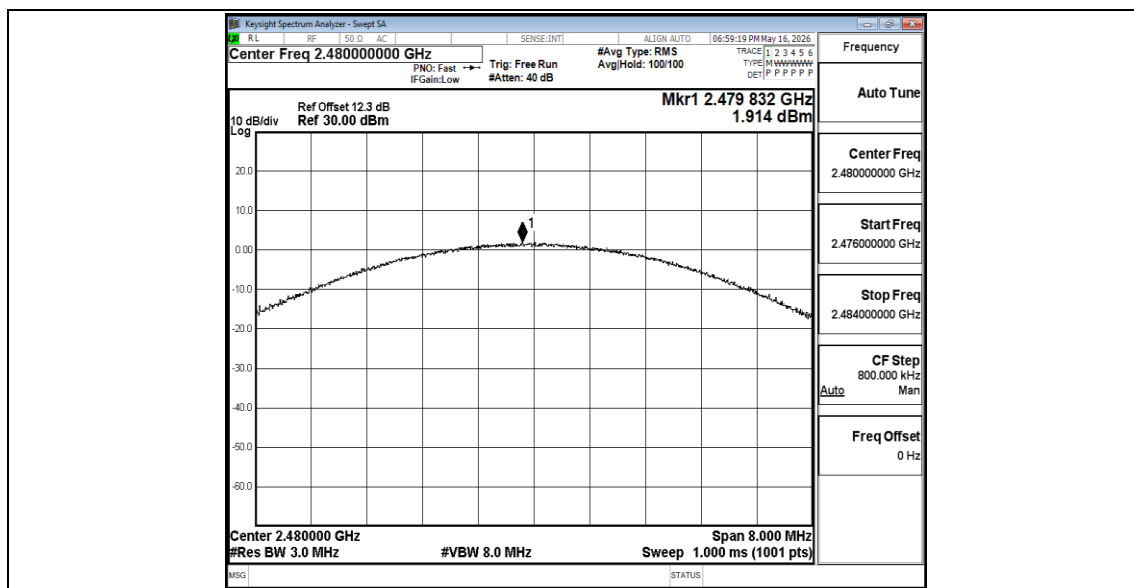
Test Graphs









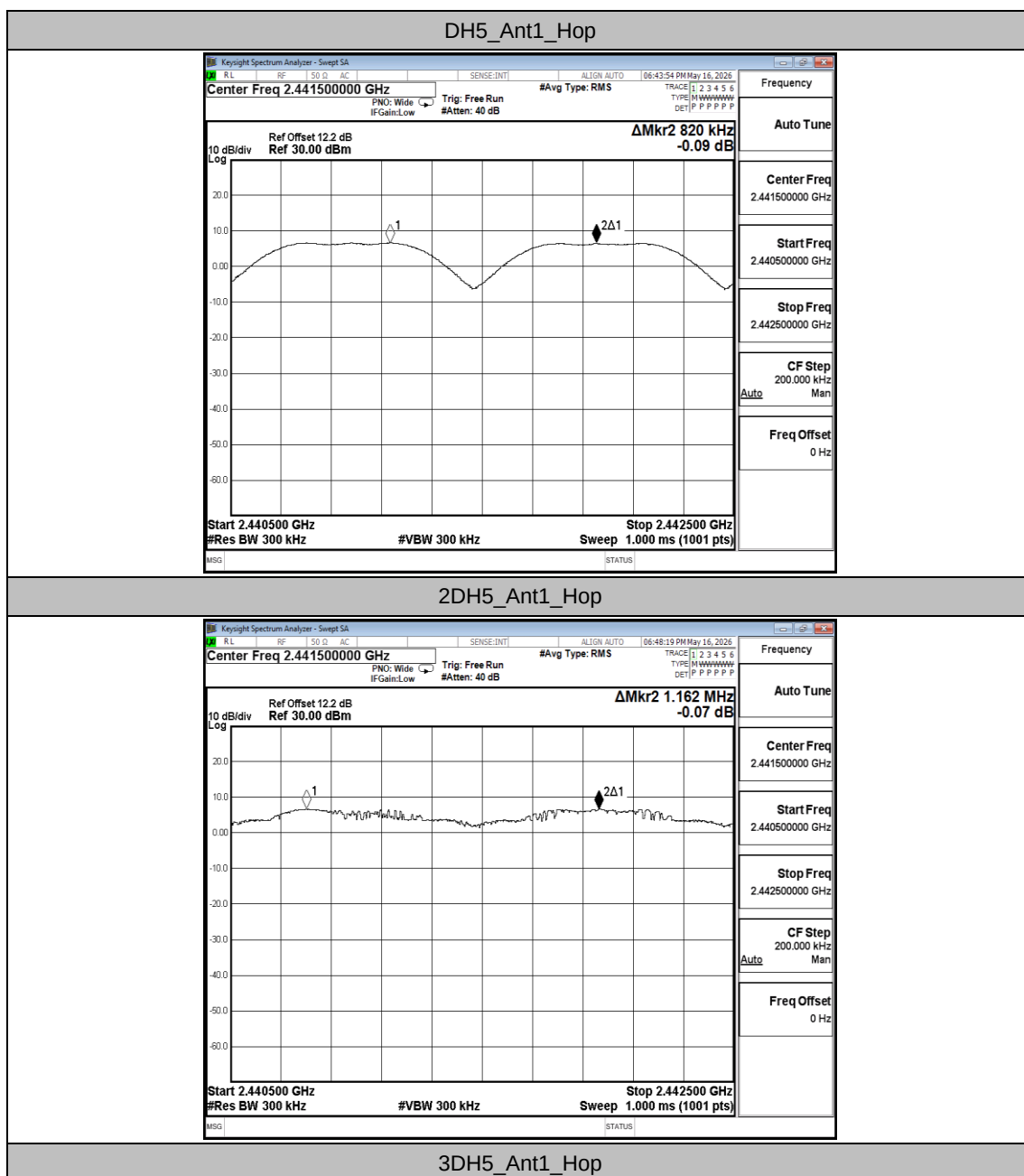


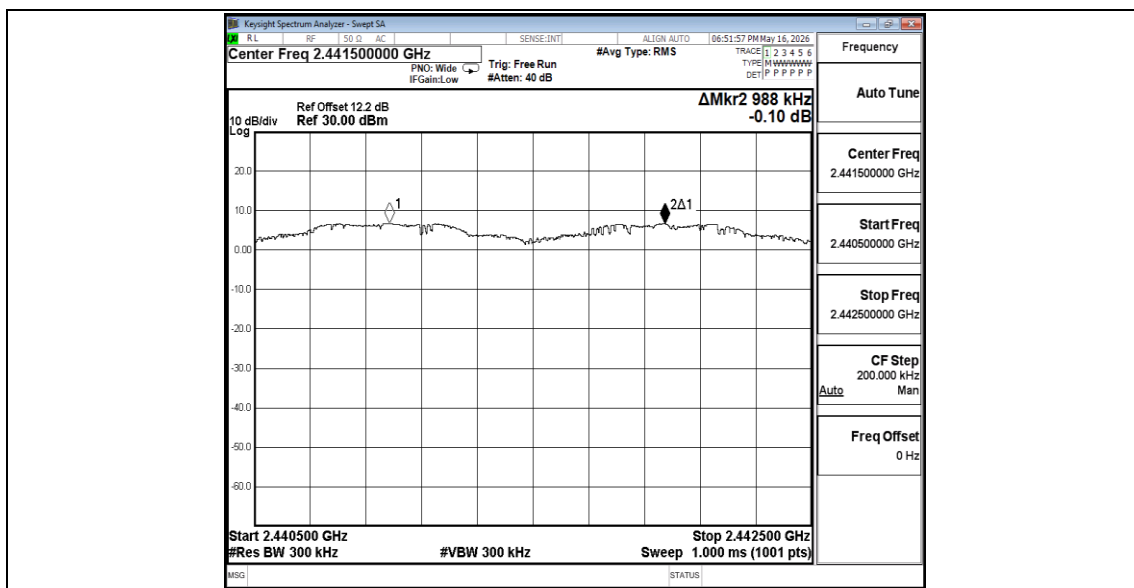
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.82	≥0.644	PASS
2DH5	Ant1	Hop	1.162	≥0.852	PASS
3DH5	Ant1	Hop	0.988	≥0.852	PASS

Test Graphs



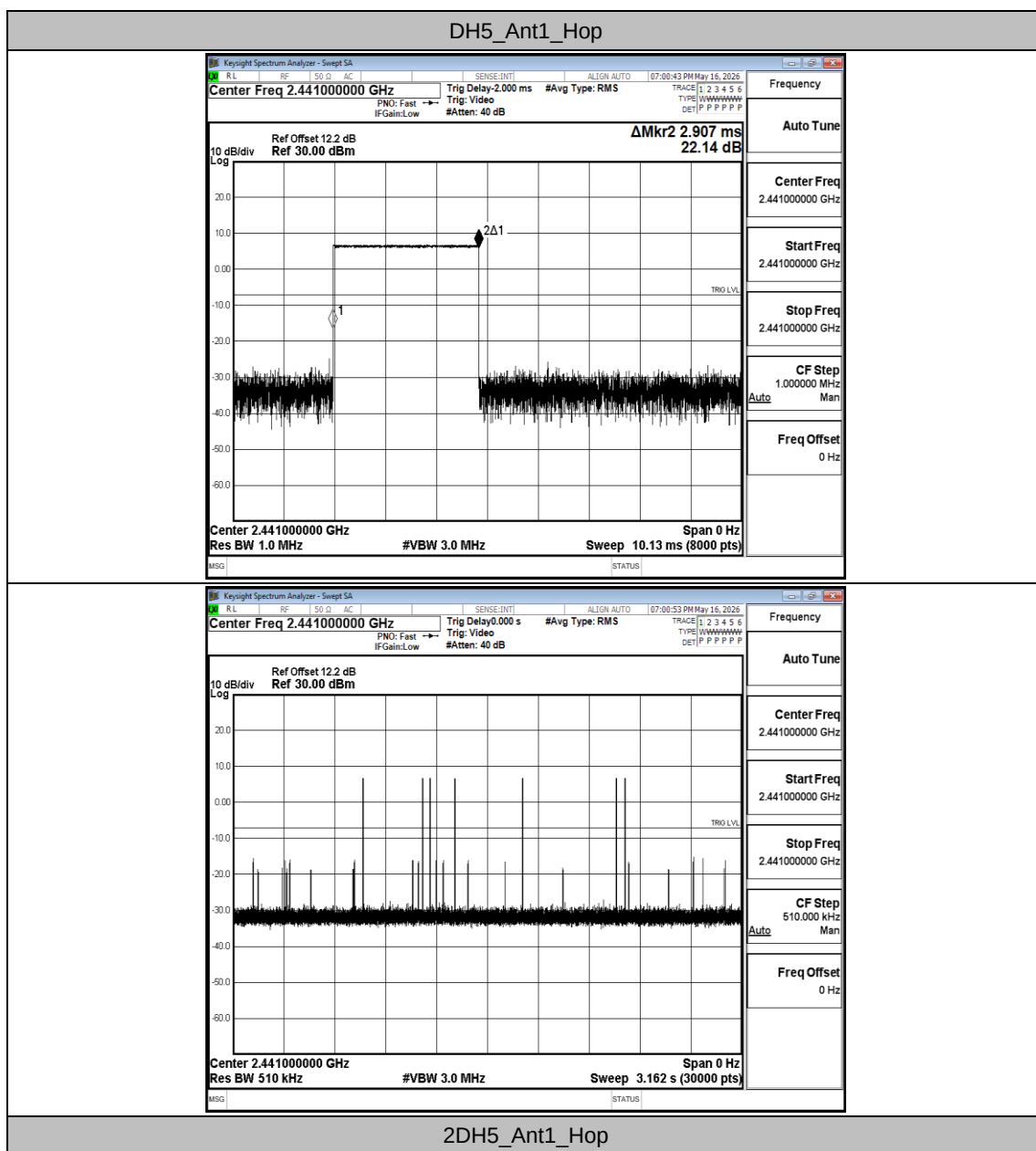


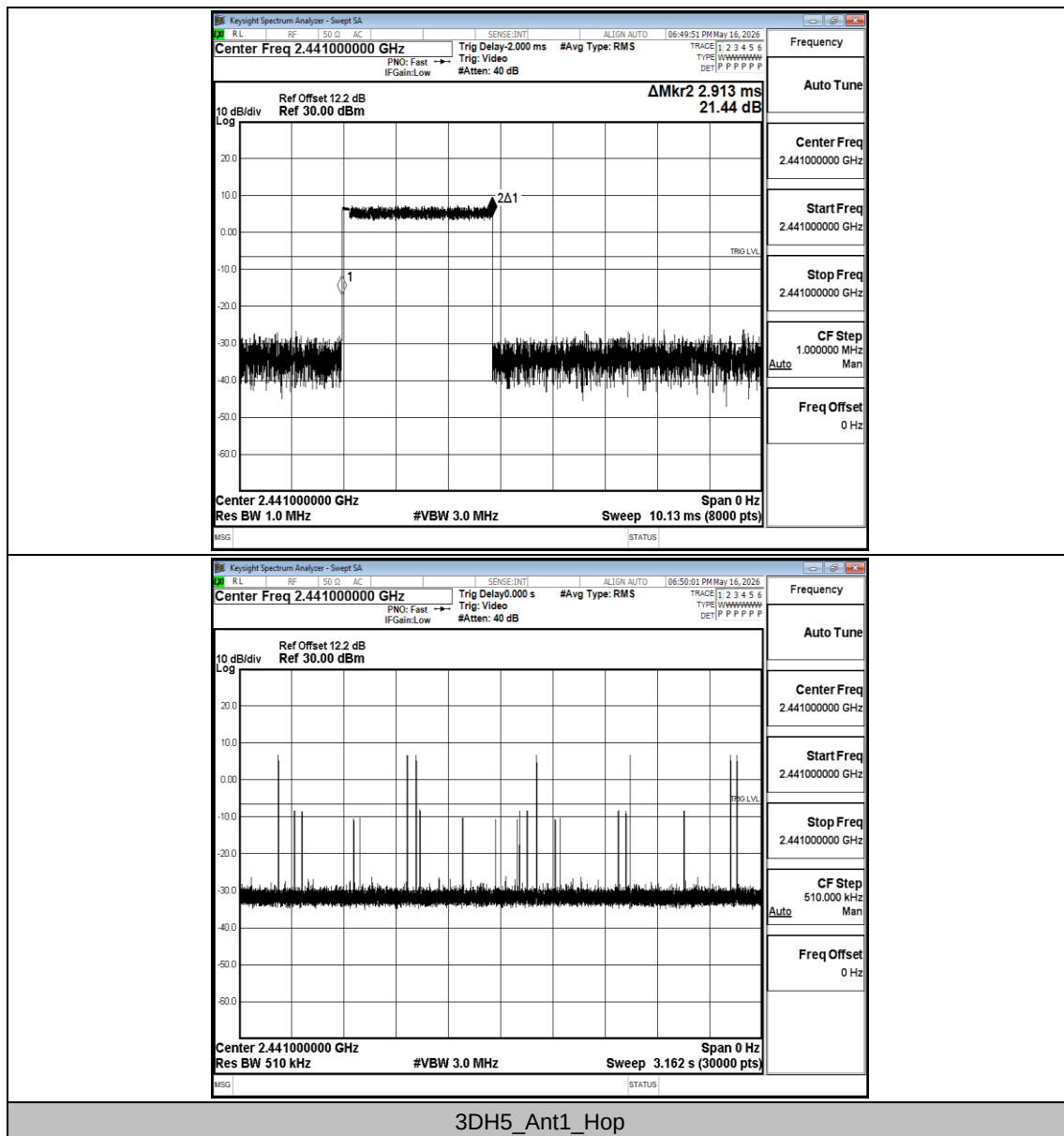
A.4 Time of occupancy

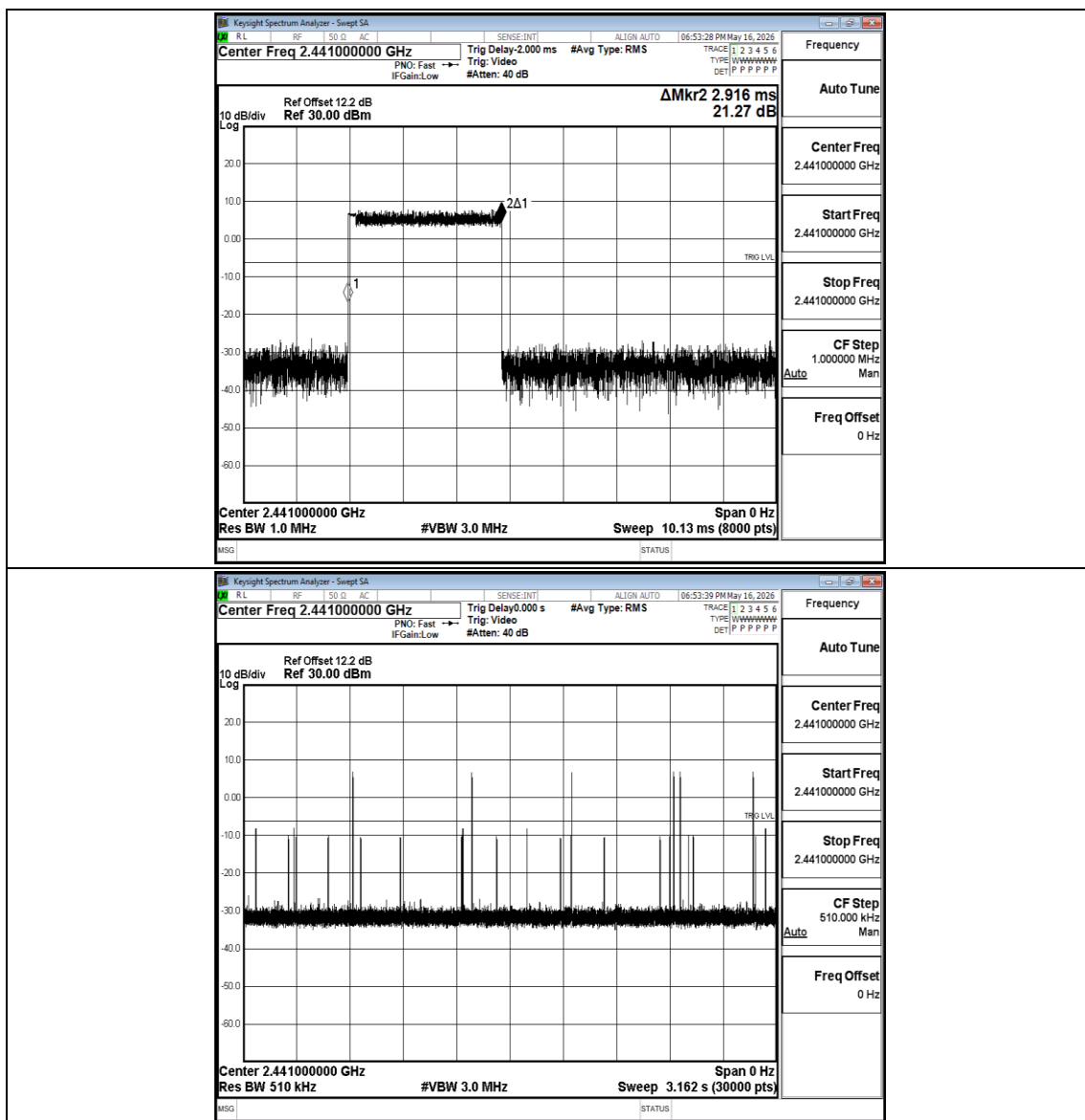
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	80	0.233	≤0.4	PASS
2DH5	Ant1	Hop	2.913	80	0.233	≤0.4	PASS
3DH5	Ant1	Hop	2.916	70	0.204	≤0.4	PASS

Test Graphs





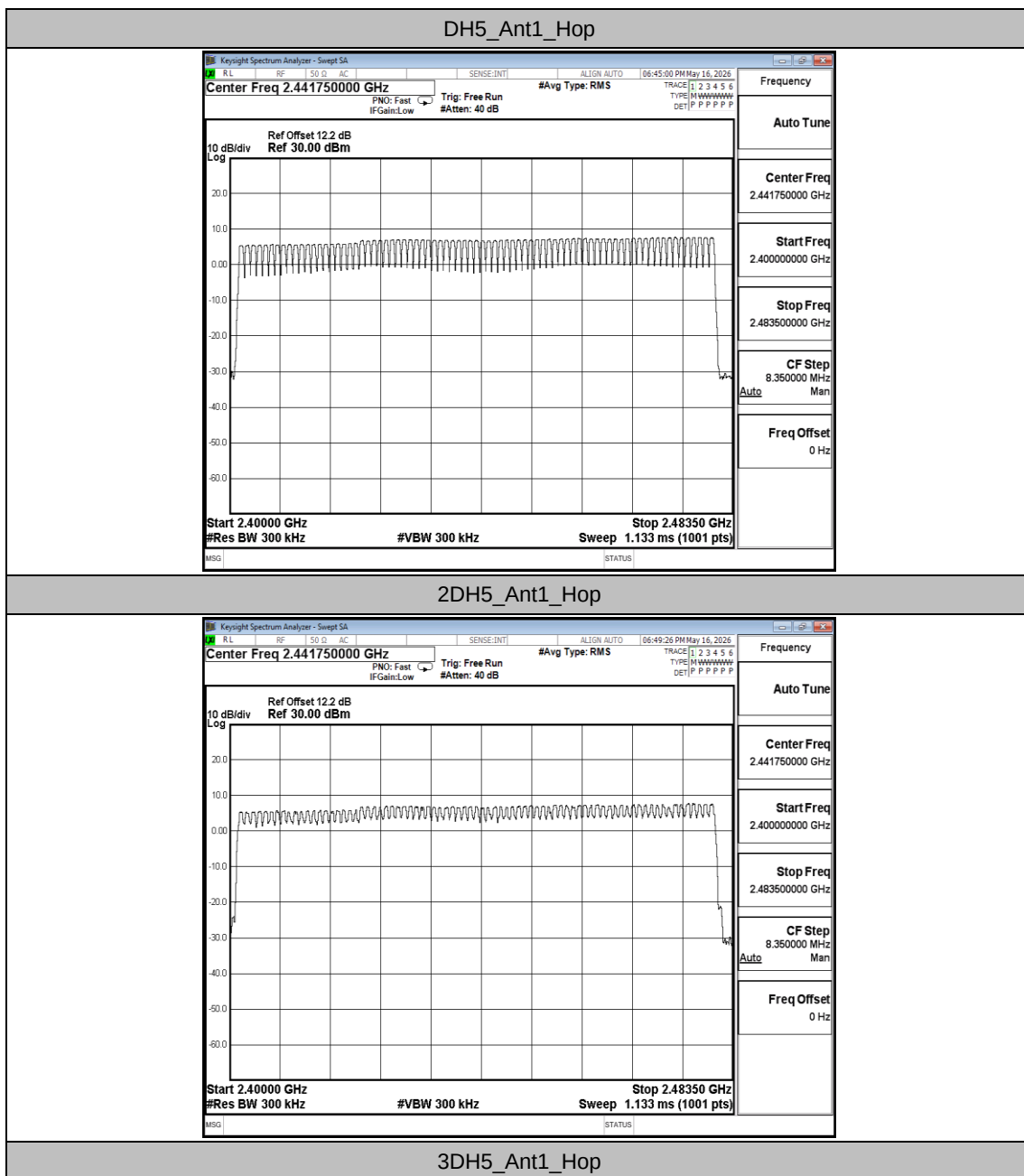


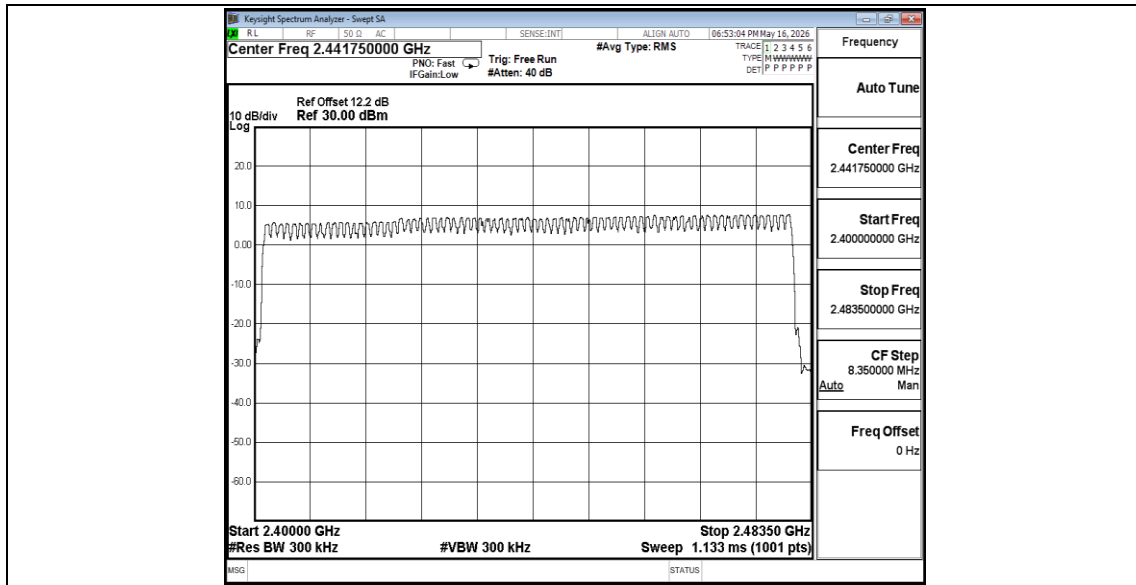
A.5 Number of hopping channels

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



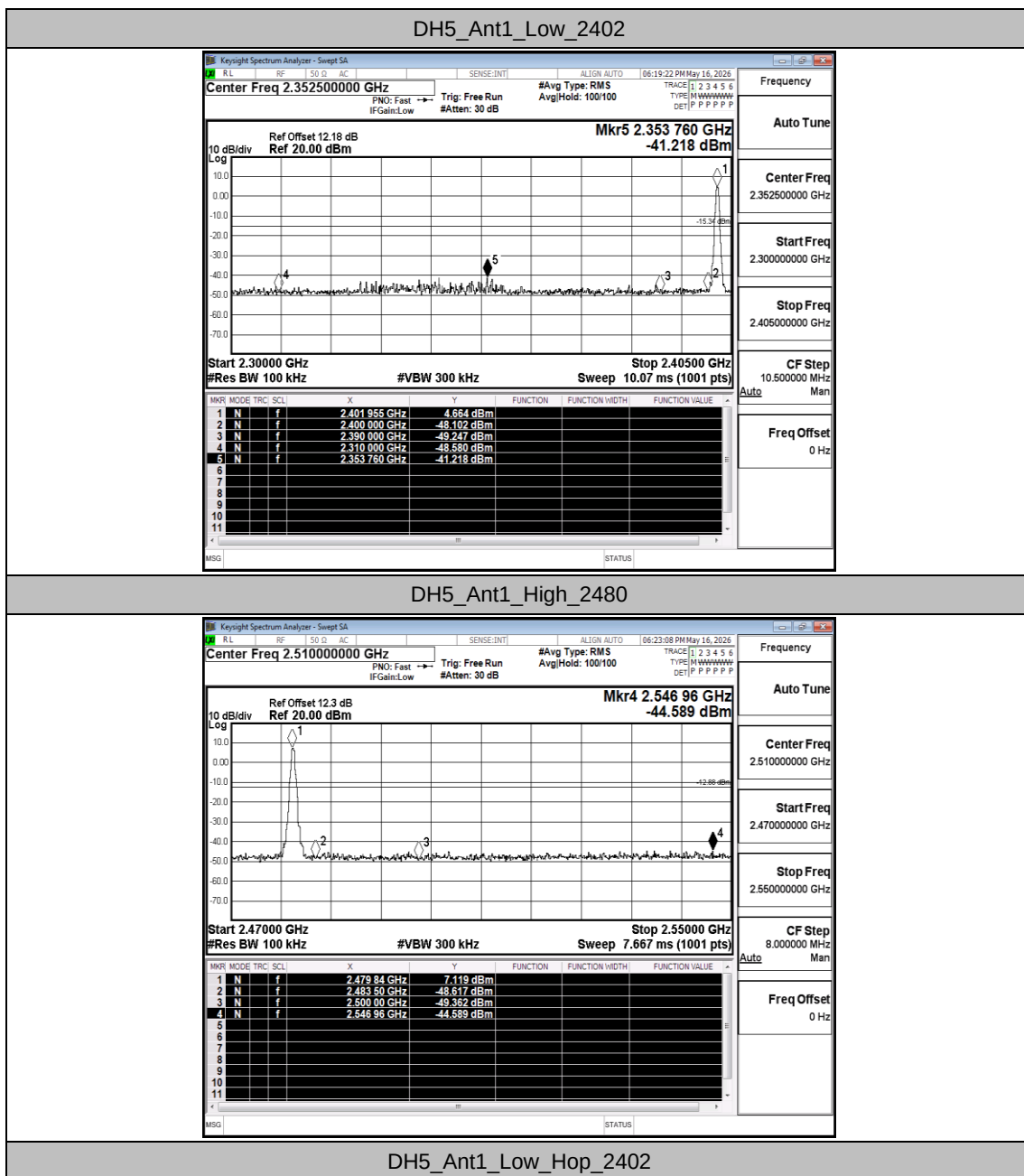


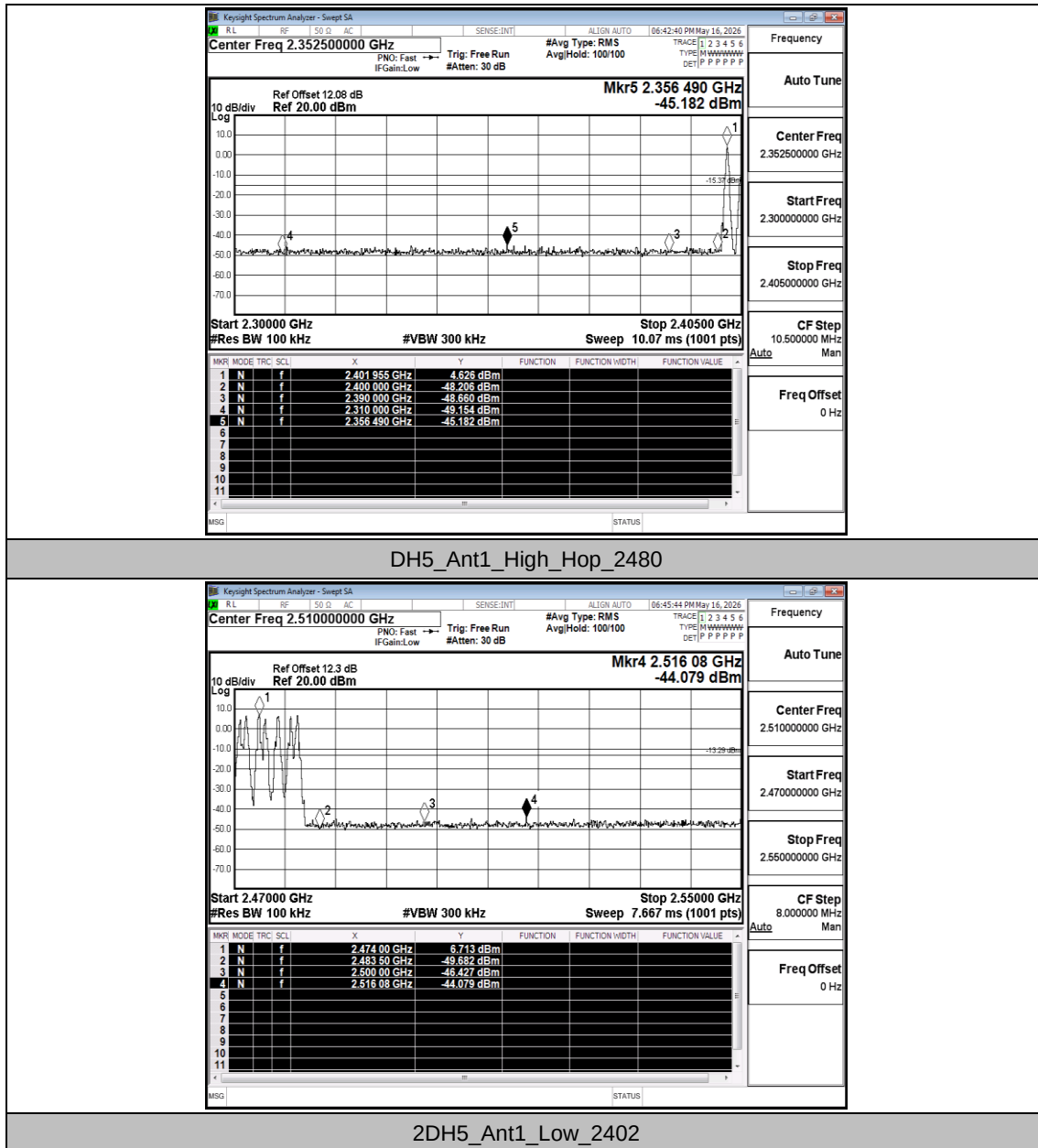
A.6 Band edge measurements

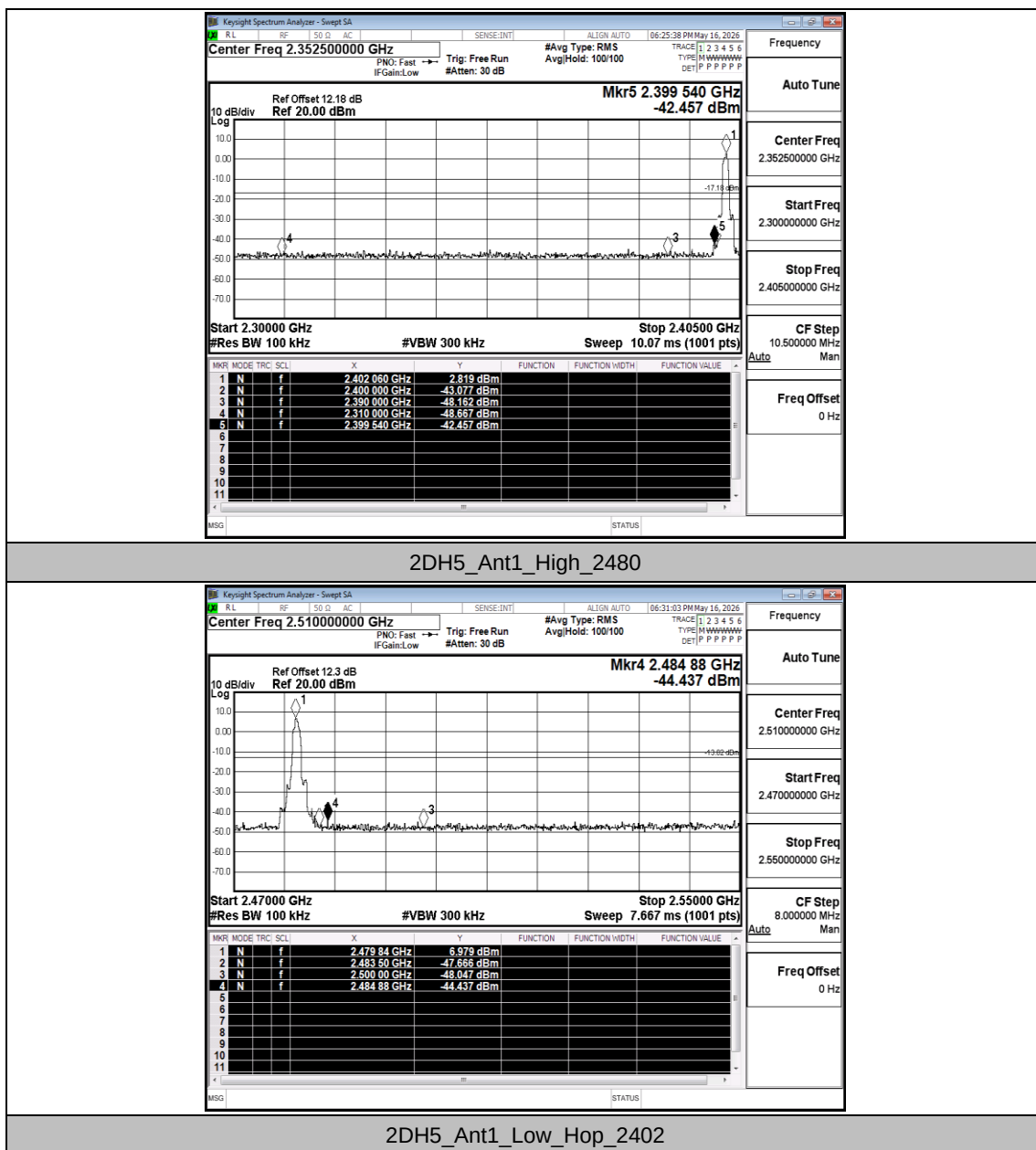
Test Result

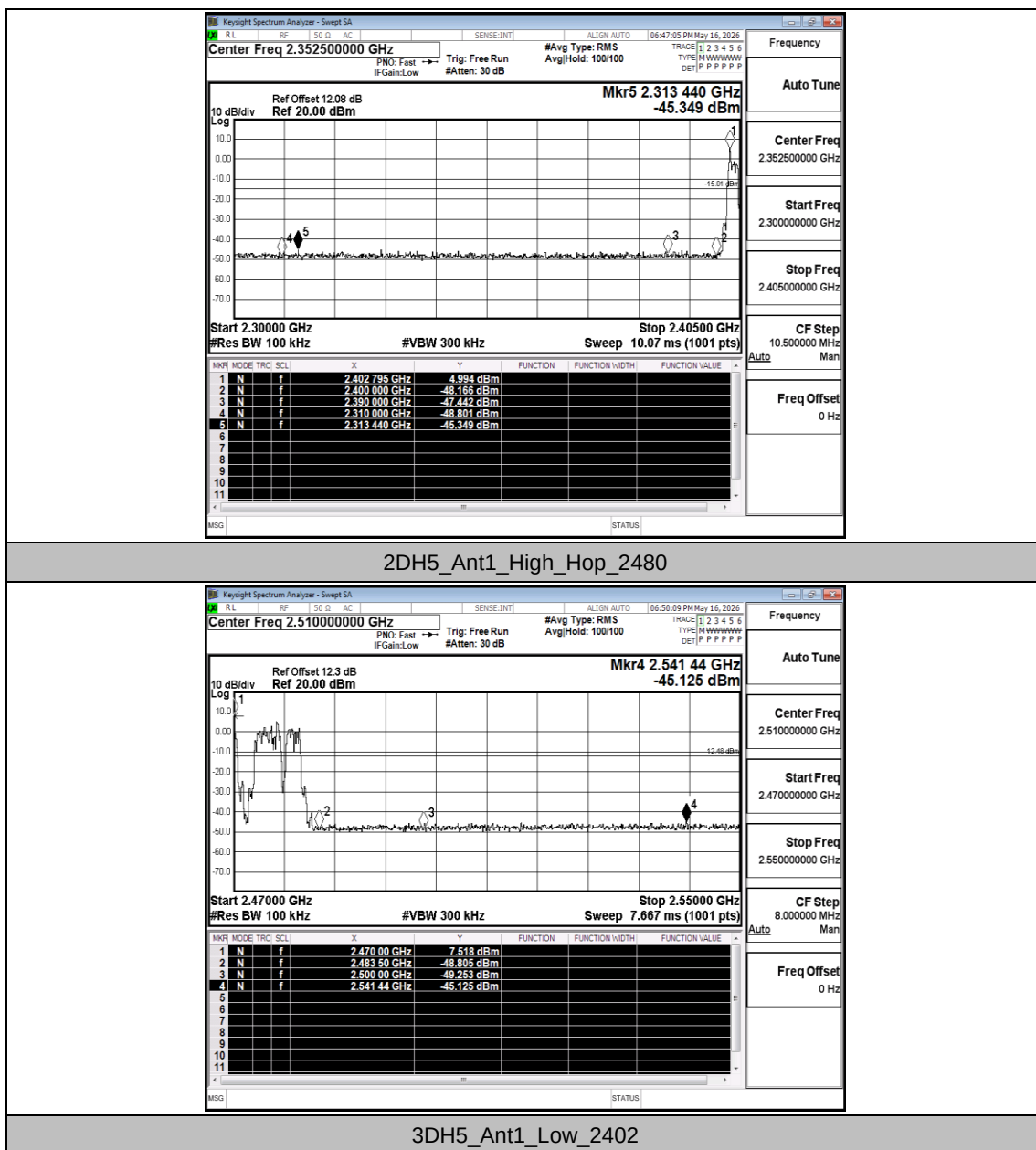
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.66	-41.22	≤ -15.34	PASS
		High	2480	7.12	-44.59	≤ -12.88	PASS
		Low	Hop_2402	4.63	-45.18	≤ -15.37	PASS
		High	Hop_2480	6.71	-44.08	≤ -13.29	PASS
2DH5	Ant1	Low	2402	2.82	-42.46	≤ -17.18	PASS
		High	2480	6.98	-44.44	≤ -13.02	PASS
		Low	Hop_2402	4.99	-45.35	≤ -15.01	PASS
		High	Hop_2480	7.52	-45.13	≤ -12.48	PASS
3DH5	Ant1	Low	2402	4.52	-43.77	≤ -15.48	PASS
		High	2480	6.71	-42.9	≤ -13.29	PASS
		Low	Hop_2402	-0.82	-45.35	≤ -20.82	PASS
		High	Hop_2480	2.76	-44.48	≤ -17.24	PASS

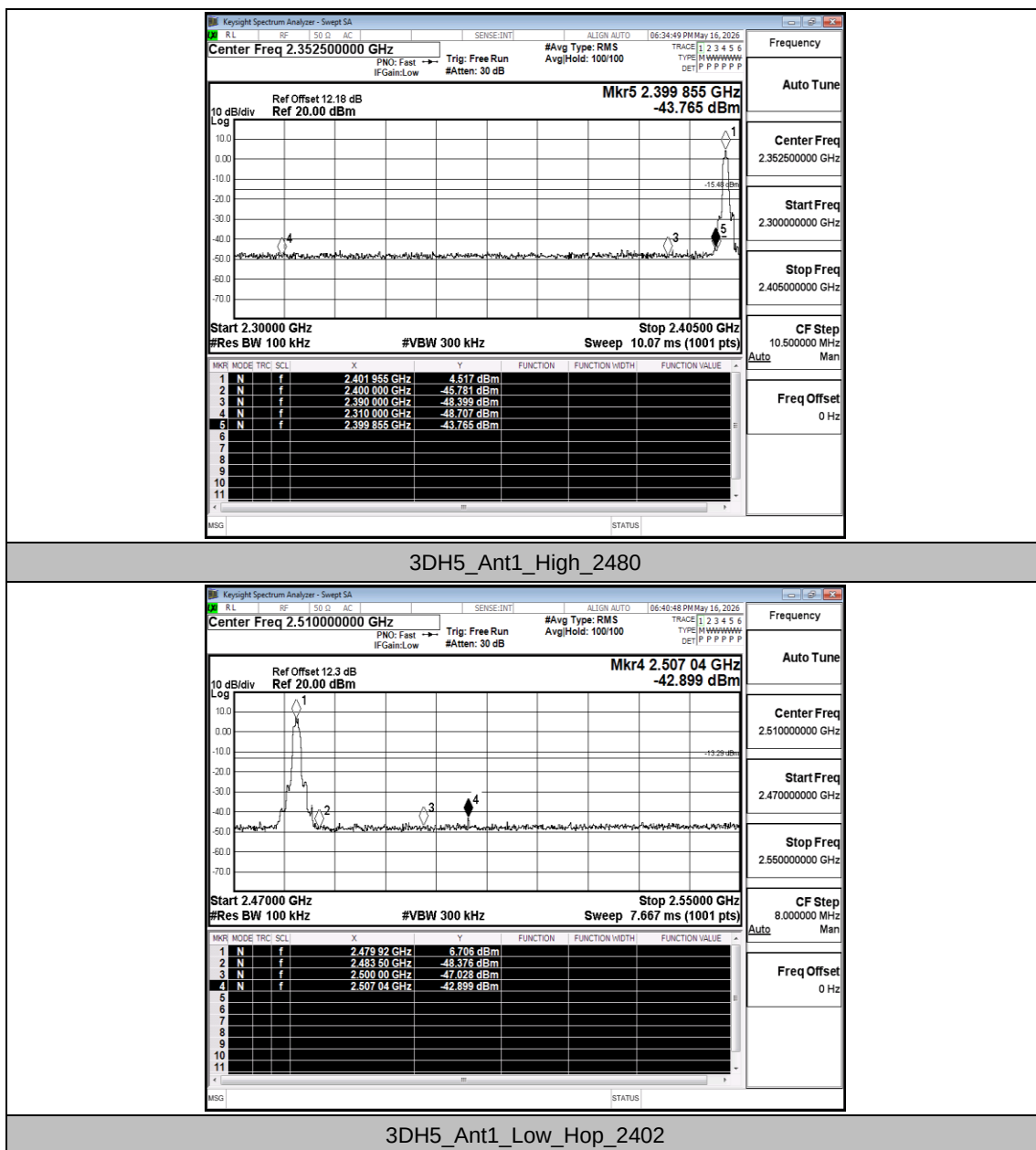
Test Graphs

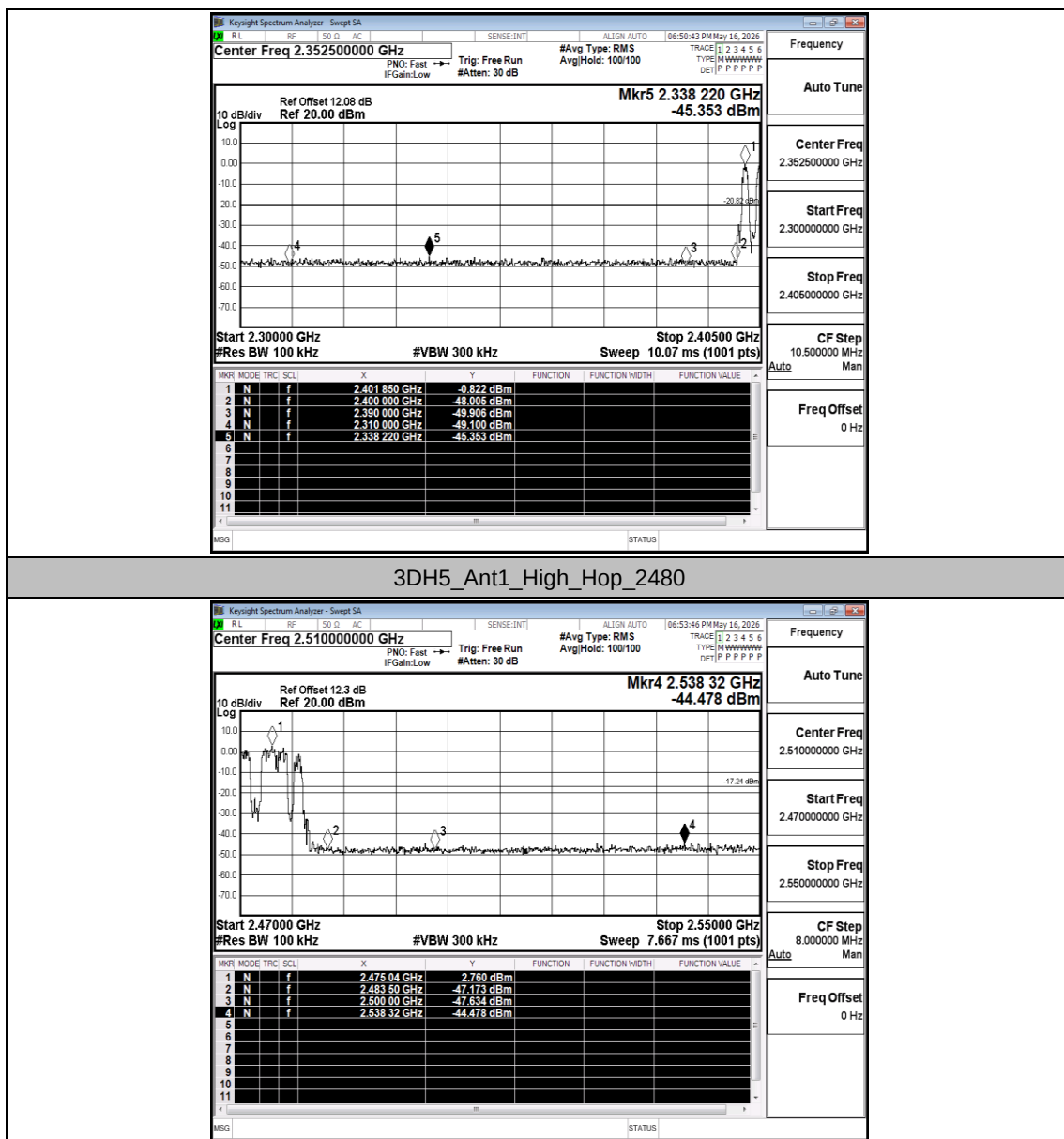












A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.07	5.07	---	PASS
			30~1000	5.07	-66.22	≤-14.93	PASS
			1000~26500	5.07	-45.29	≤-14.93	PASS
		2441	Reference	6.43	6.43	---	PASS
			30~1000	6.43	-66.35	≤-13.57	PASS
			1000~26500	6.43	-43.72	≤-13.57	PASS
		2480	Reference	7.33	7.33	---	PASS
			30~1000	7.33	-65.69	≤-12.67	PASS
			1000~26500	7.33	-40.62	≤-12.67	PASS
2DH5	Ant1	2402	Reference	5.21	5.21	---	PASS
			30~1000	5.21	-64.91	≤-14.79	PASS
			1000~26500	5.21	-50.33	≤-14.79	PASS
		2441	Reference	6.49	6.49	---	PASS
			30~1000	6.49	-65.38	≤-13.51	PASS
			1000~26500	6.49	-44.42	≤-13.51	PASS
		2480	Reference	7.46	7.46	---	PASS
			30~1000	7.46	-64.21	≤-12.54	PASS
			1000~26500	7.46	-45.4	≤-12.54	PASS
3DH5	Ant1	2402	Reference	5.20	5.20	---	PASS
			30~1000	5.20	-64.94	≤-14.8	PASS
			1000~26500	5.20	-45.87	≤-14.8	PASS
		2441	Reference	6.51	6.51	---	PASS
			30~1000	6.51	-66.66	≤-13.49	PASS
			1000~26500	6.51	-44.93	≤-13.49	PASS
		2480	Reference	7.38	7.38	---	PASS
			30~1000	7.38	-63.52	≤-12.62	PASS
			1000~26500	7.38	-40.75	≤-12.62	PASS

Test Graphs

