

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: H2O TRI ULTRA PRO

Test Model: H2O TRI ULTRA PRO

Environmental Conditions

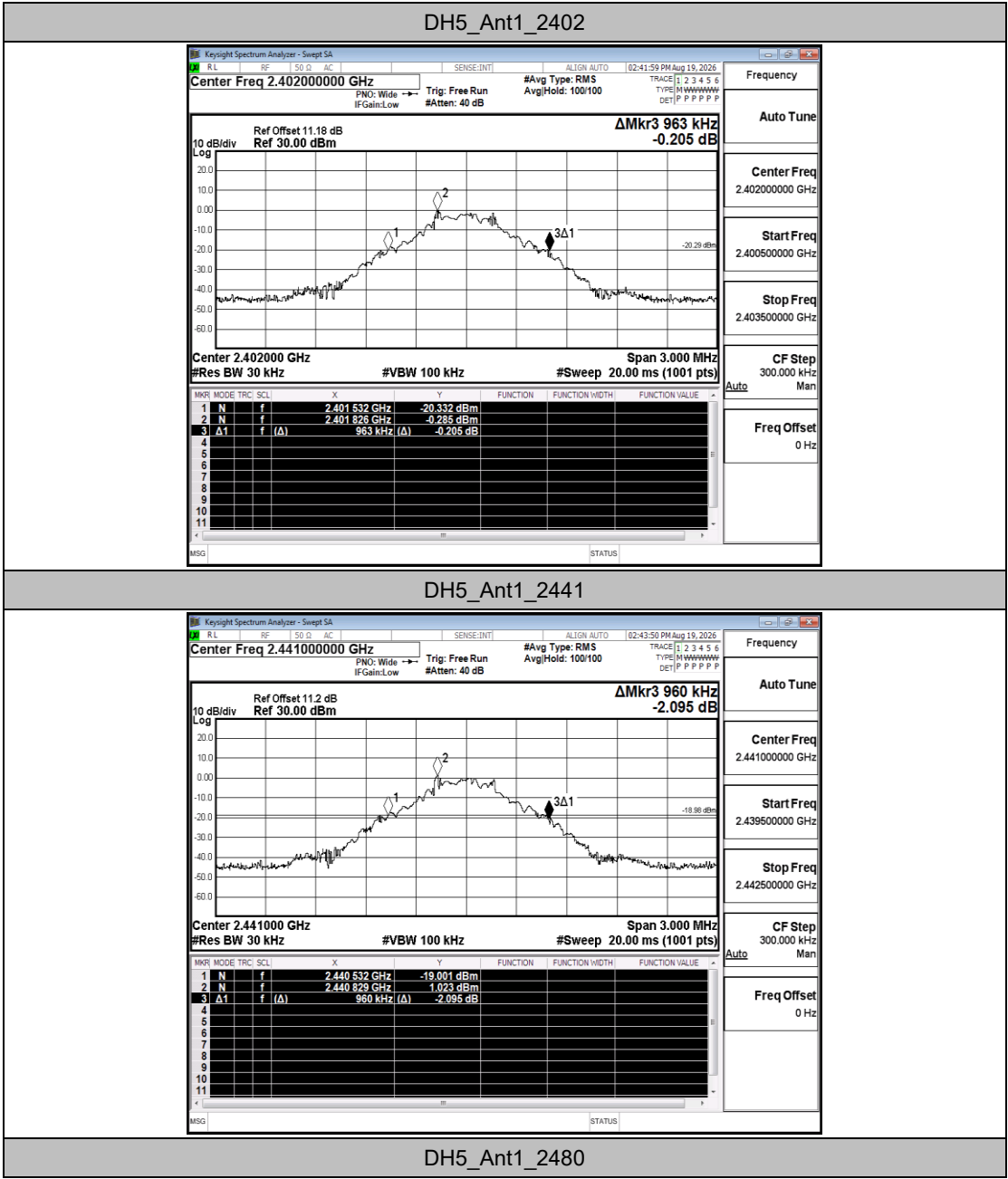
Temperature:	24.5°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

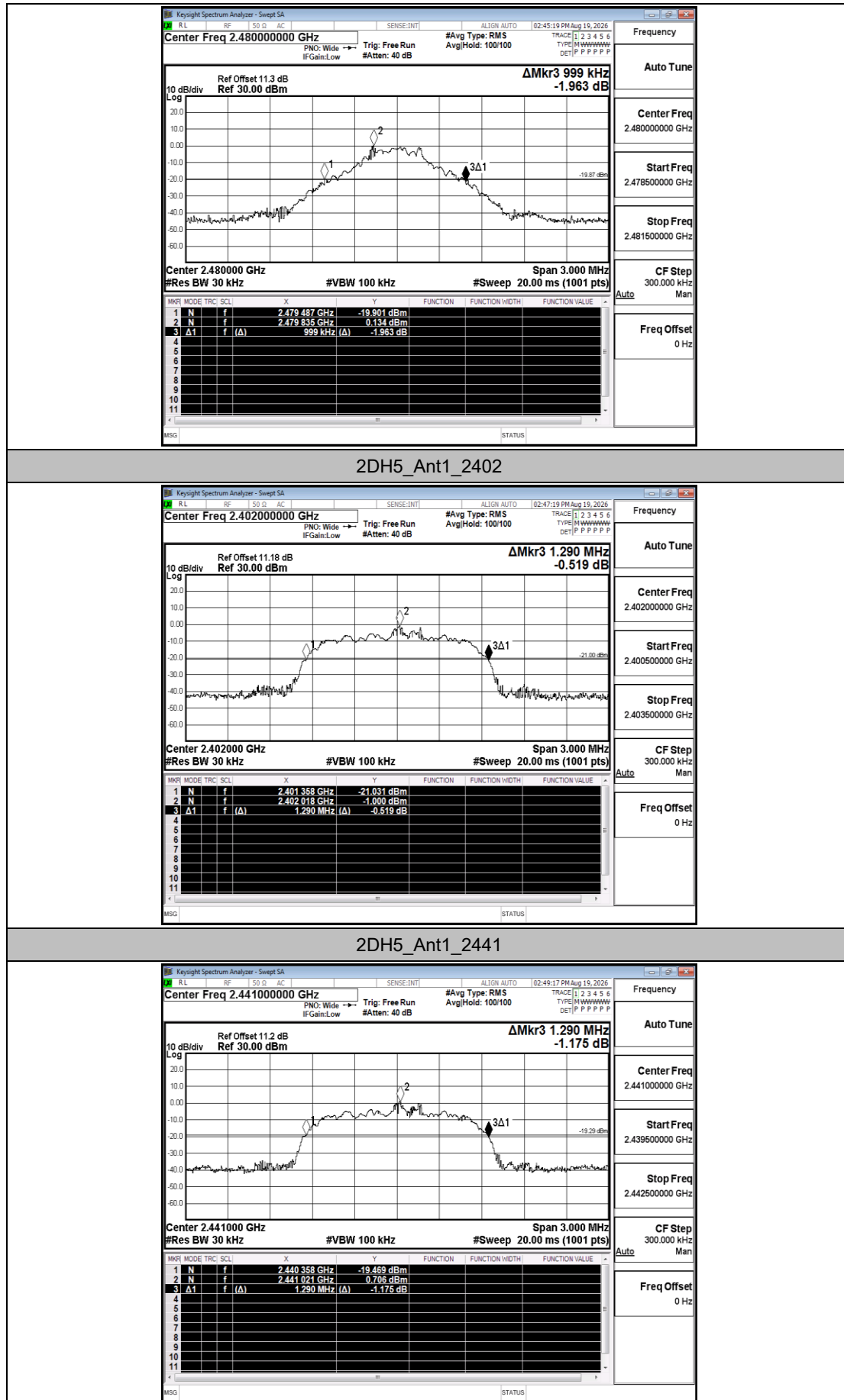
A.1 20dB Emission Bandwidth

Test Result

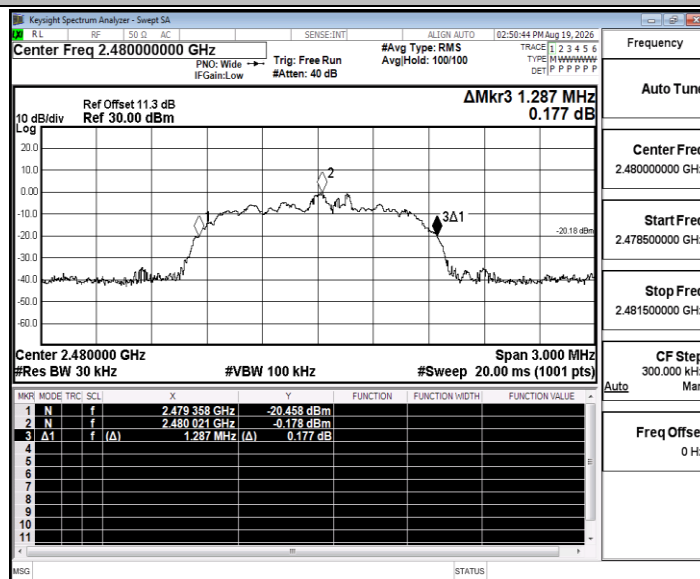
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.963	2401.532	2402.495	---	---
		2441	0.960	2440.532	2441.492	---	---
		2480	0.999	2479.487	2480.486	---	---
2DH5	Ant1	2402	1.290	2401.358	2402.648	---	---
		2441	1.290	2440.358	2441.648	---	---
		2480	1.287	2479.358	2480.645	---	---
3DH5	Ant1	2402	1.299	2401.343	2402.642	---	---
		2441	1.299	2440.343	2441.642	---	---
		2480	1.305	2479.343	2480.648	---	---

Test Graphs

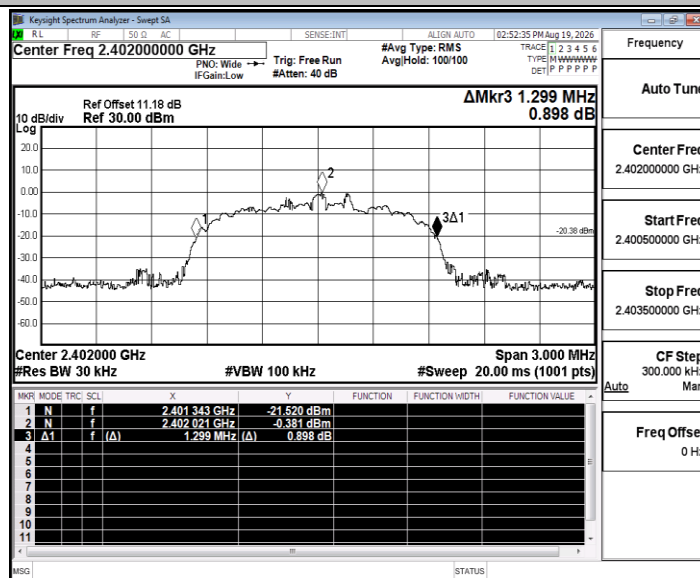




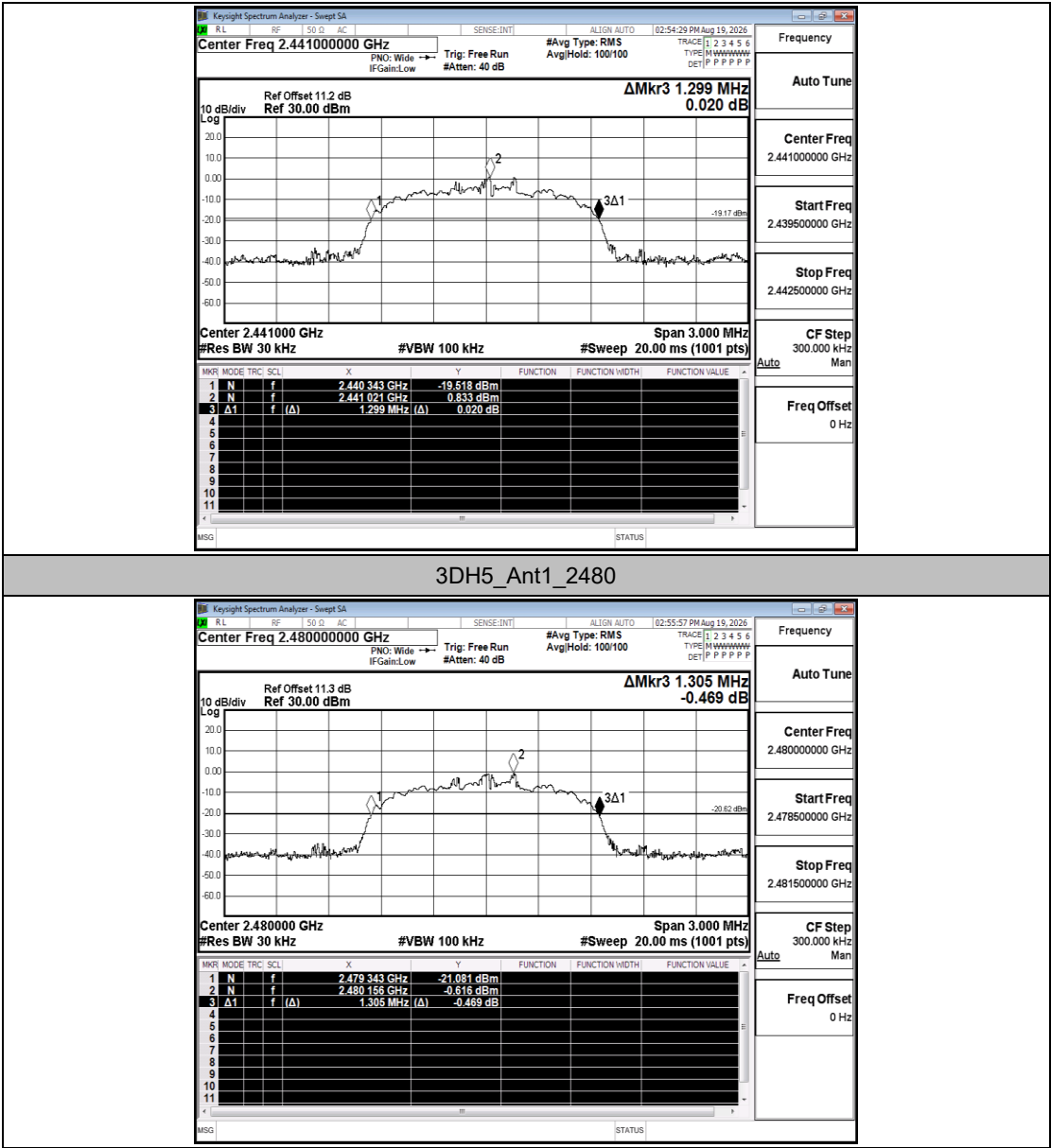
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

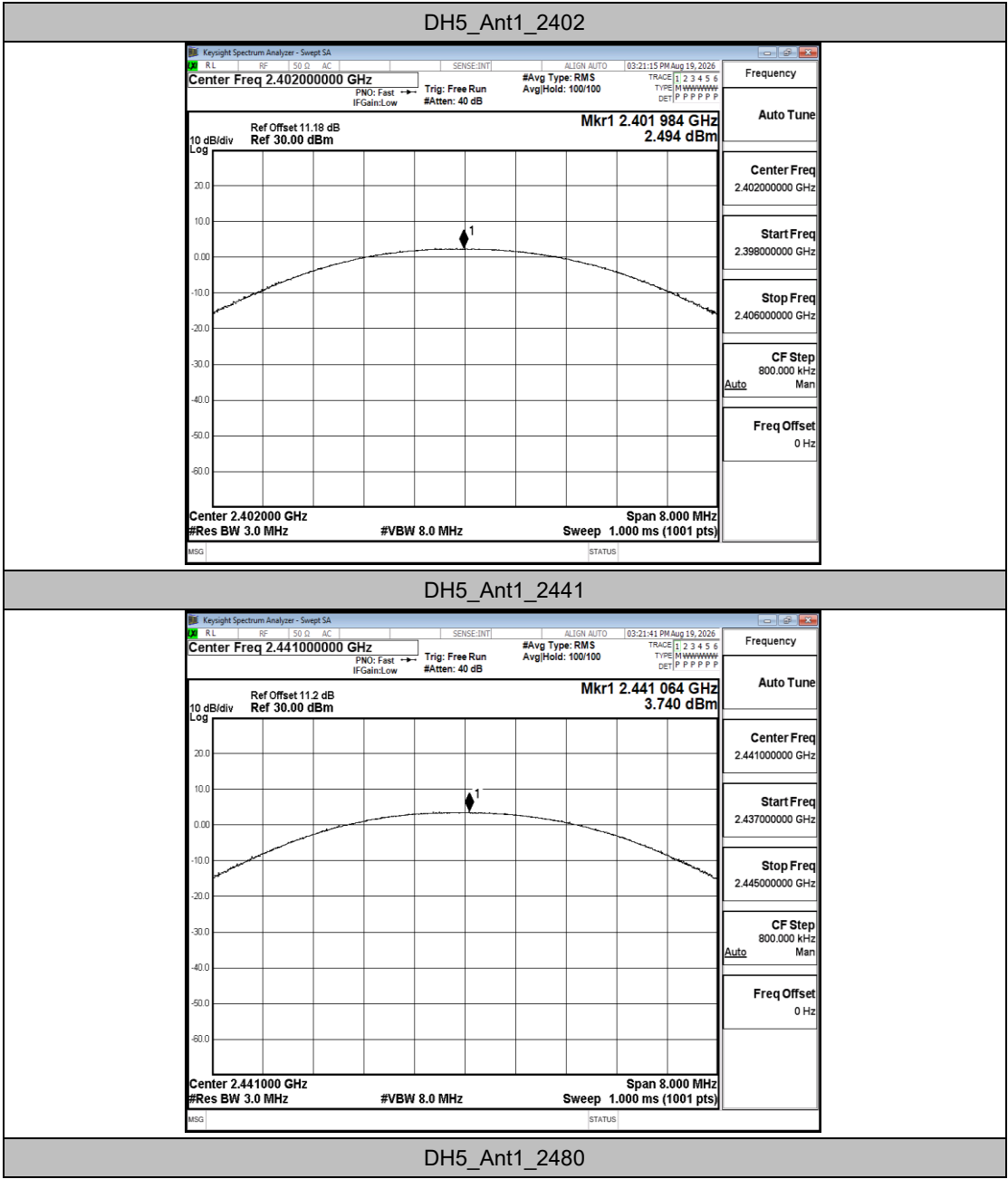


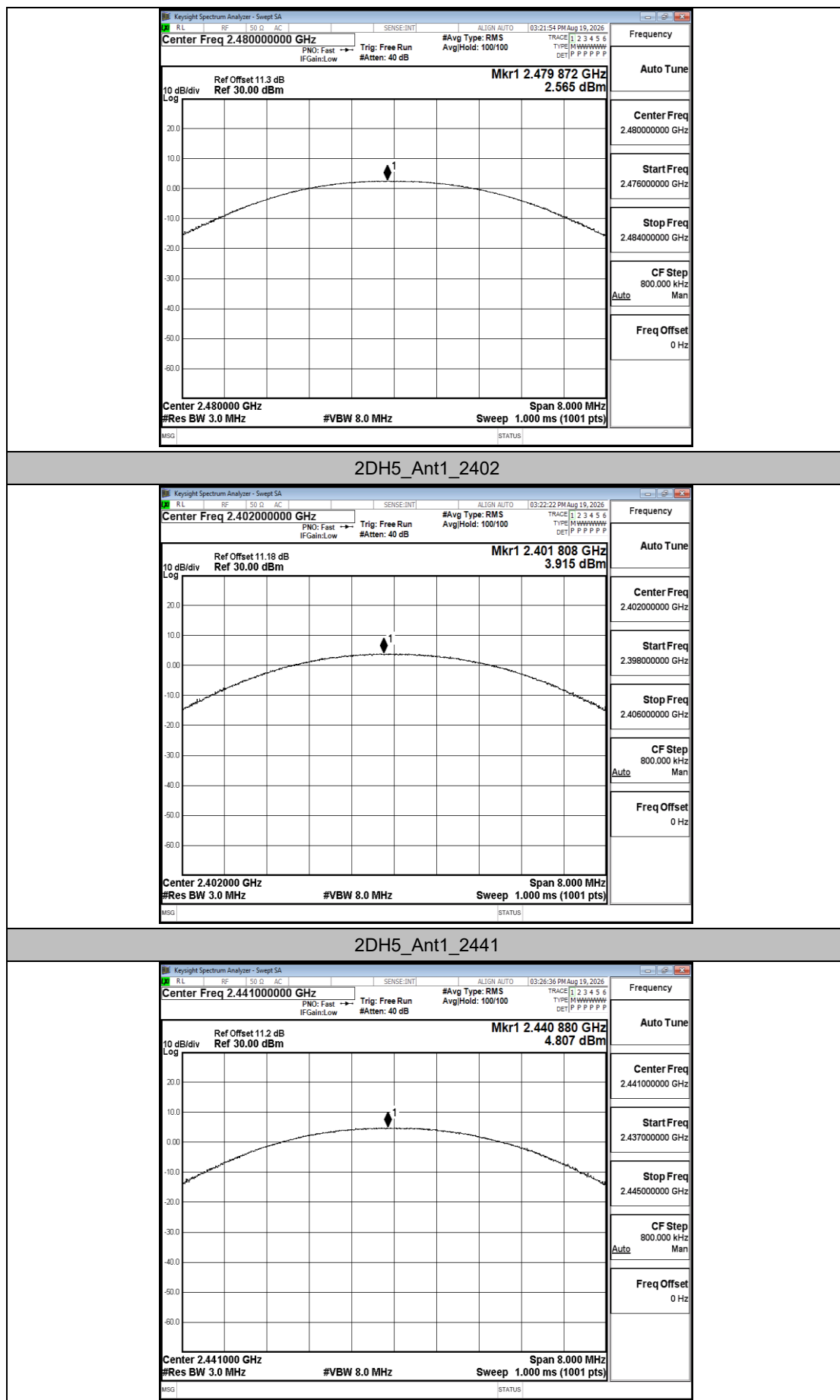
A.2 Maximum Peak conducted output power

Test Result Peak

TestMode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.49	≤20.97	PASS
		2441	3.74	≤20.97	PASS
		2480	2.57	≤20.97	PASS
2DH5	Ant1	2402	3.92	≤20.97	PASS
		2441	4.81	≤20.97	PASS
		2480	3.32	≤20.97	PASS
3DH5	Ant1	2402	3.76	≤30	PASS
		2441	4.77	≤30	PASS
		2480	3.85	≤30	PASS

Test Graphs

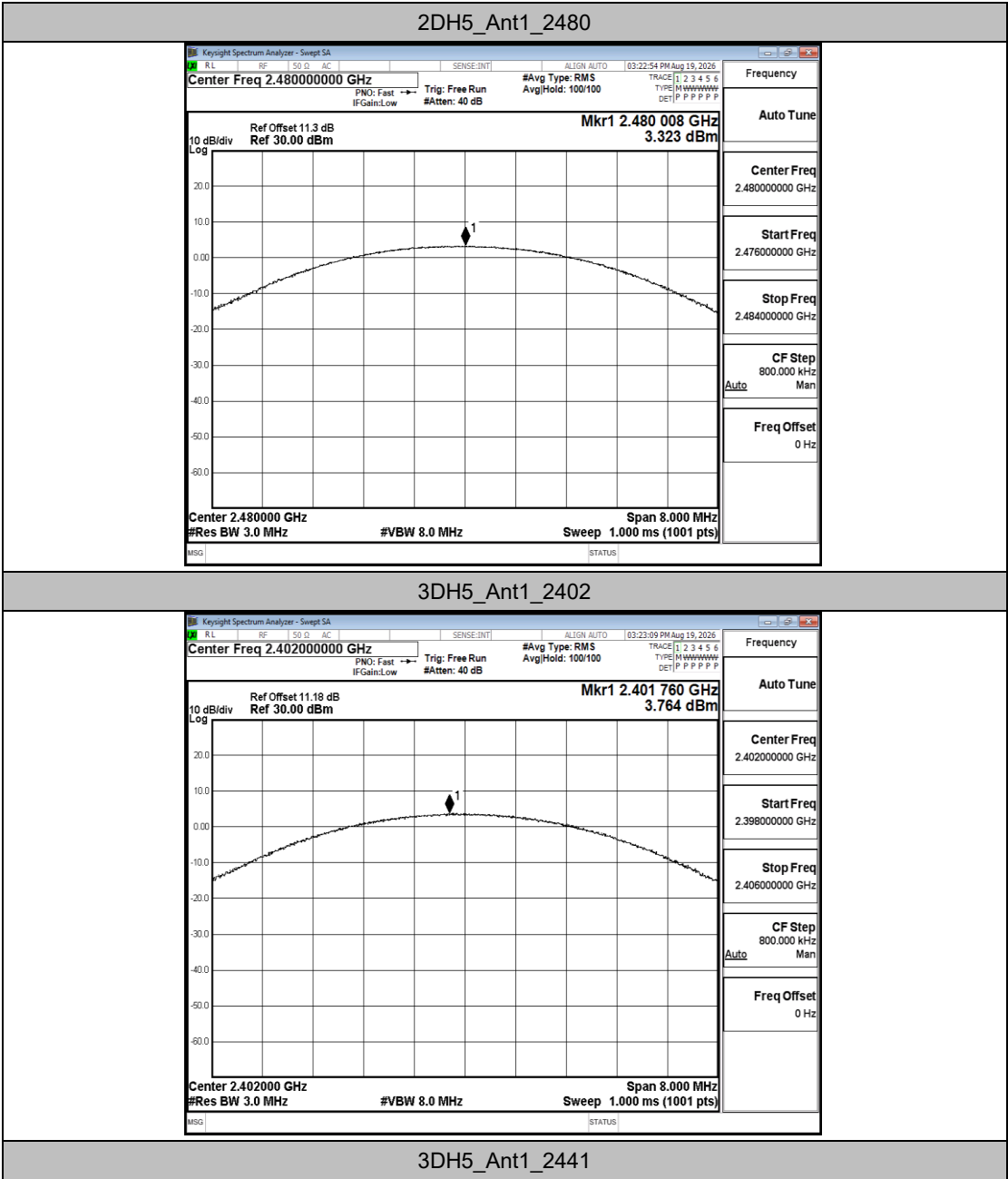


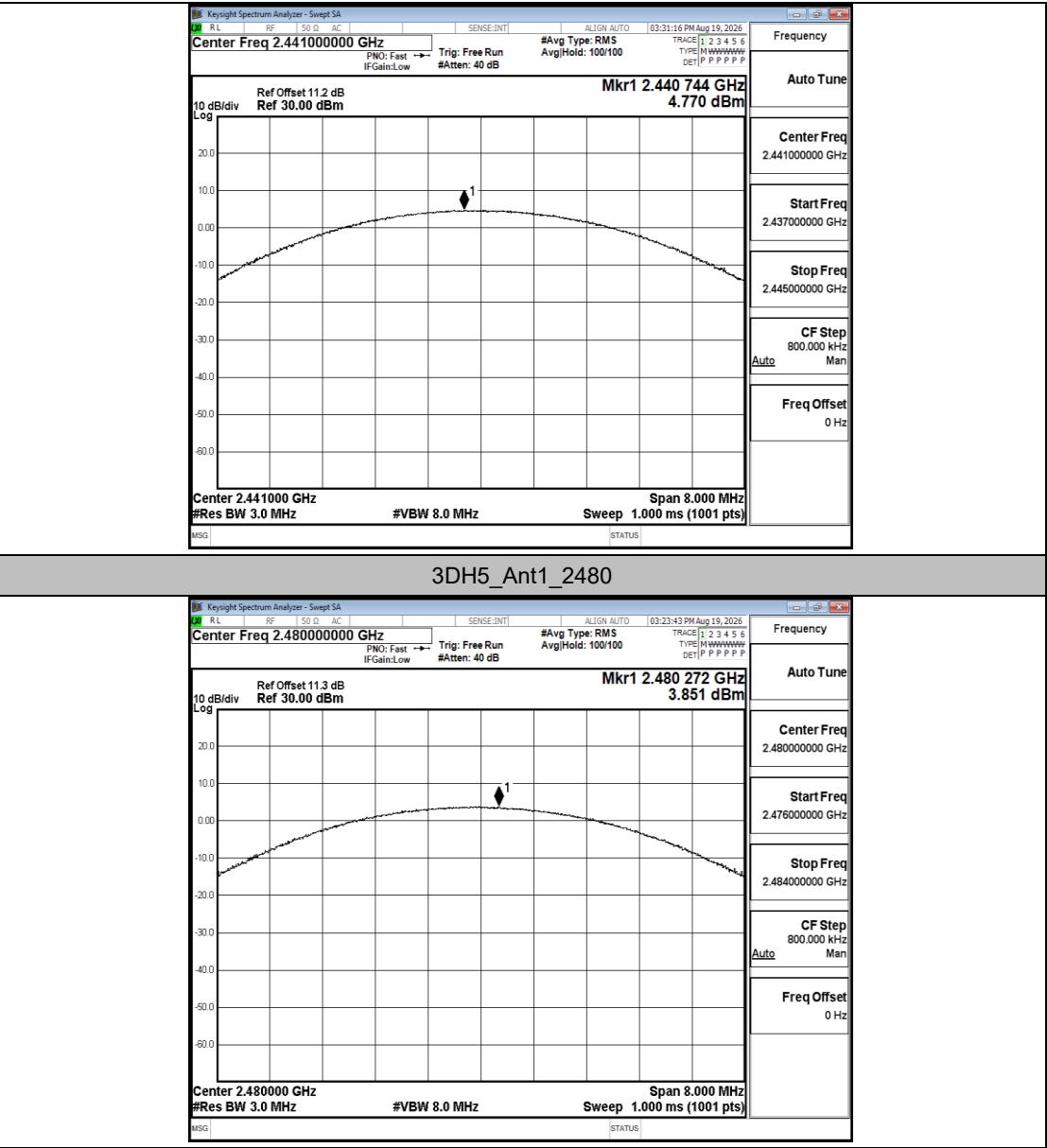


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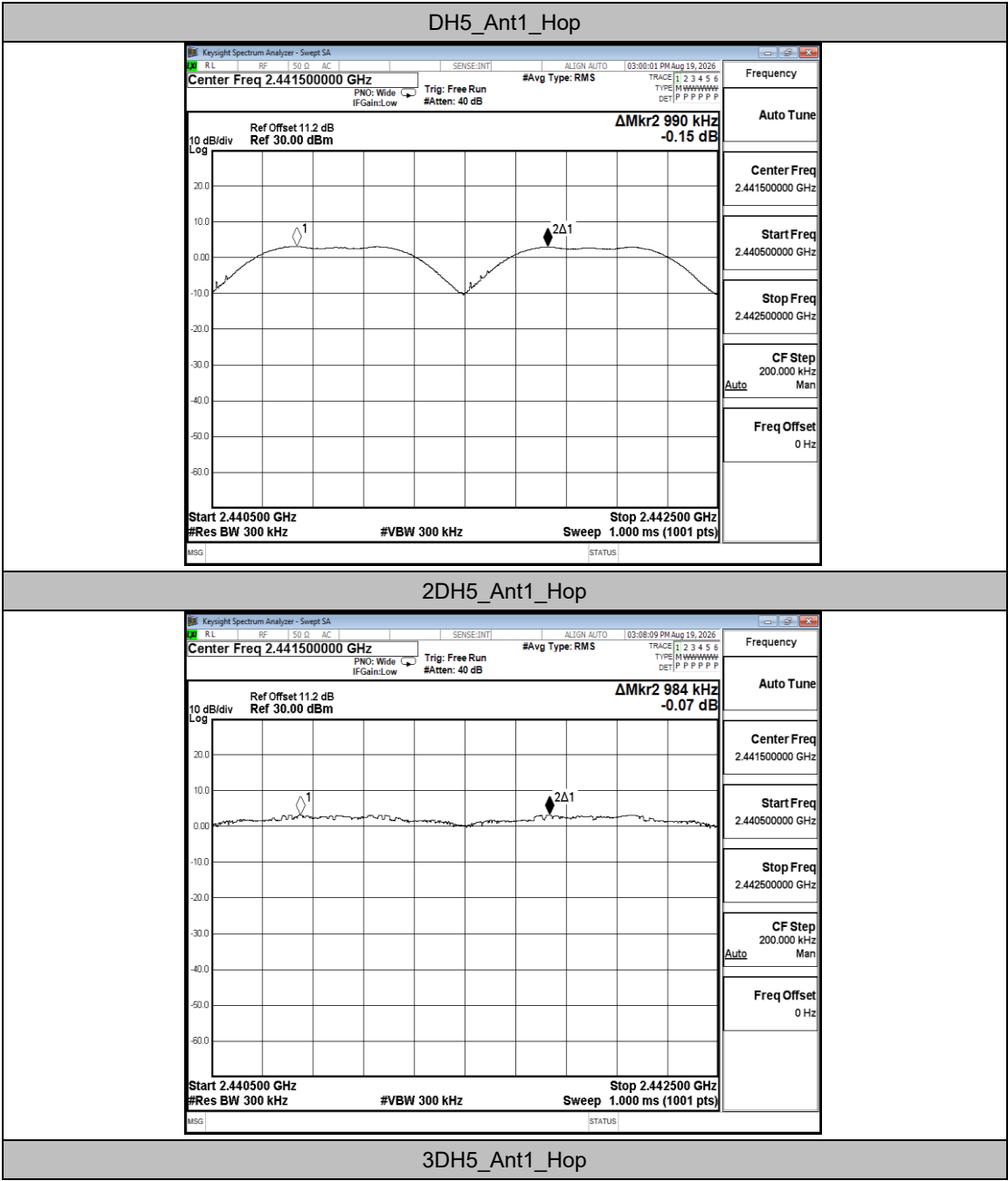


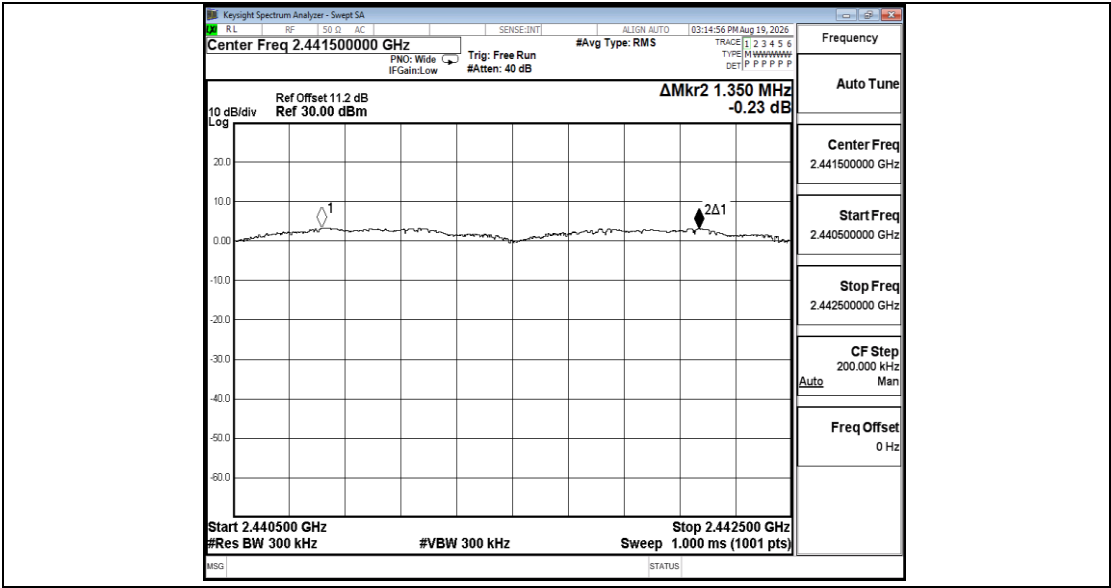
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.99	≥0.666	PASS
2DH5	Ant1	Hop	0.984	≥0.860	PASS
3DH5	Ant1	Hop	1.35	≥1.305	PASS

Test Graphs



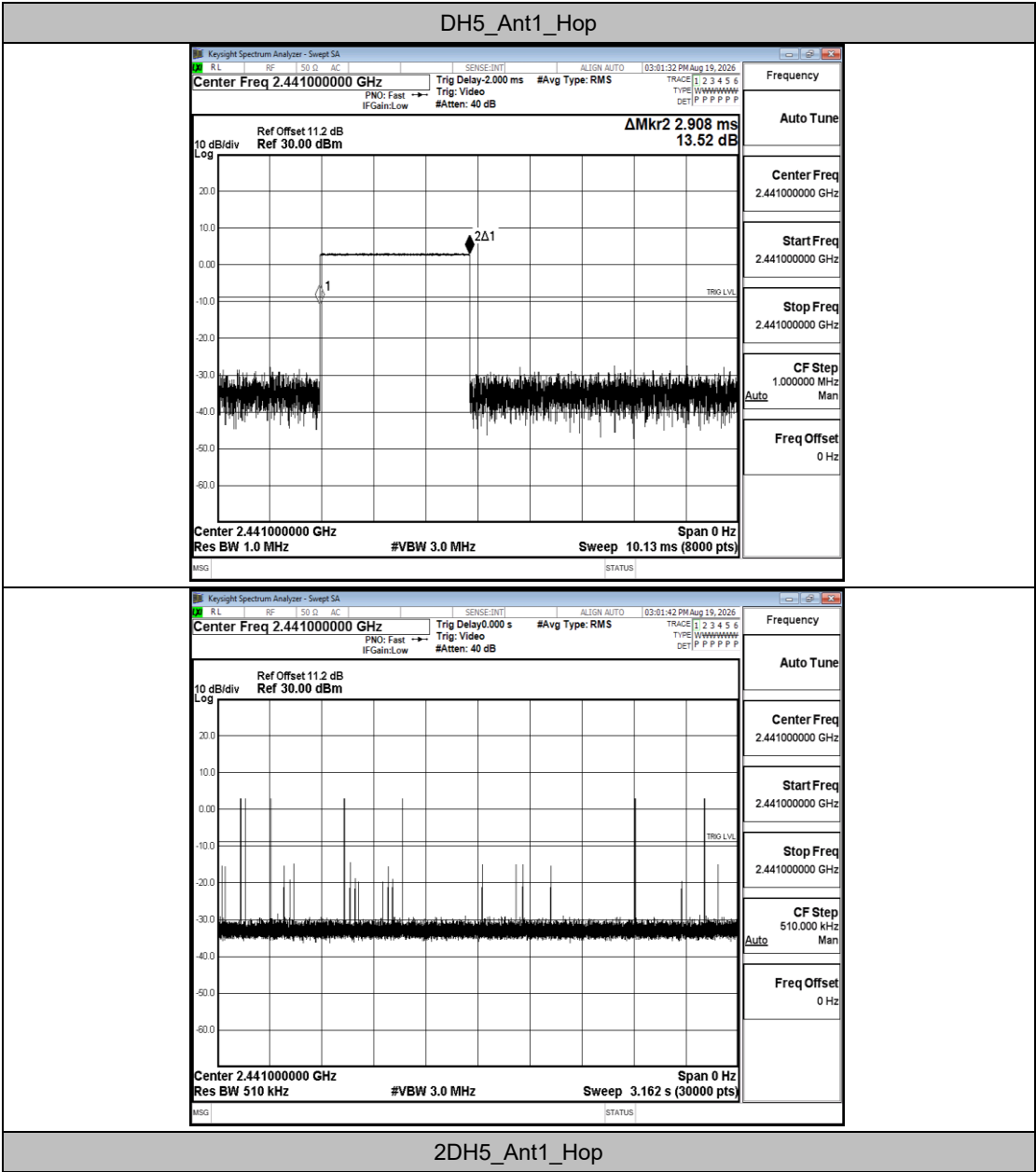


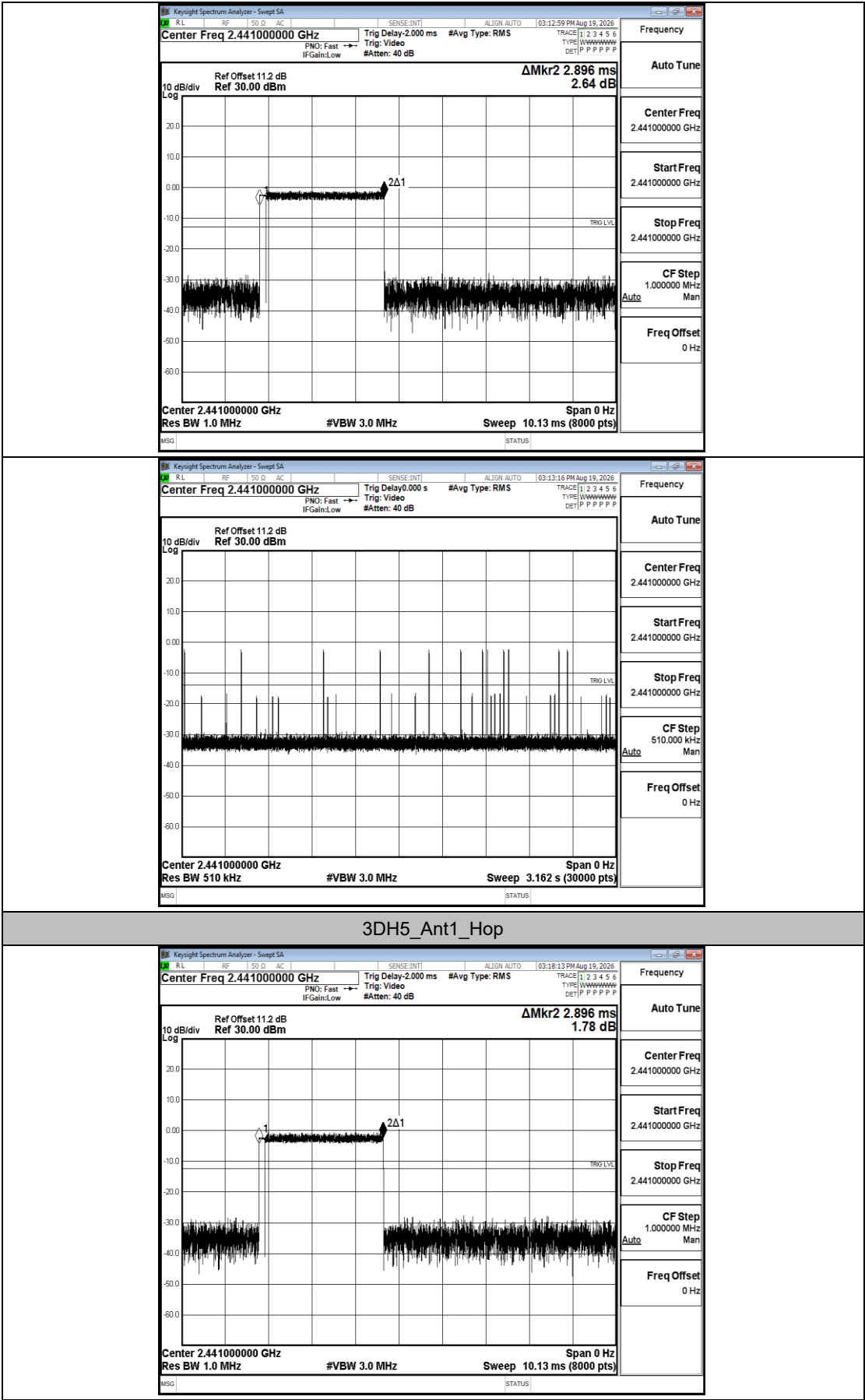
A.4 Time of occupancy

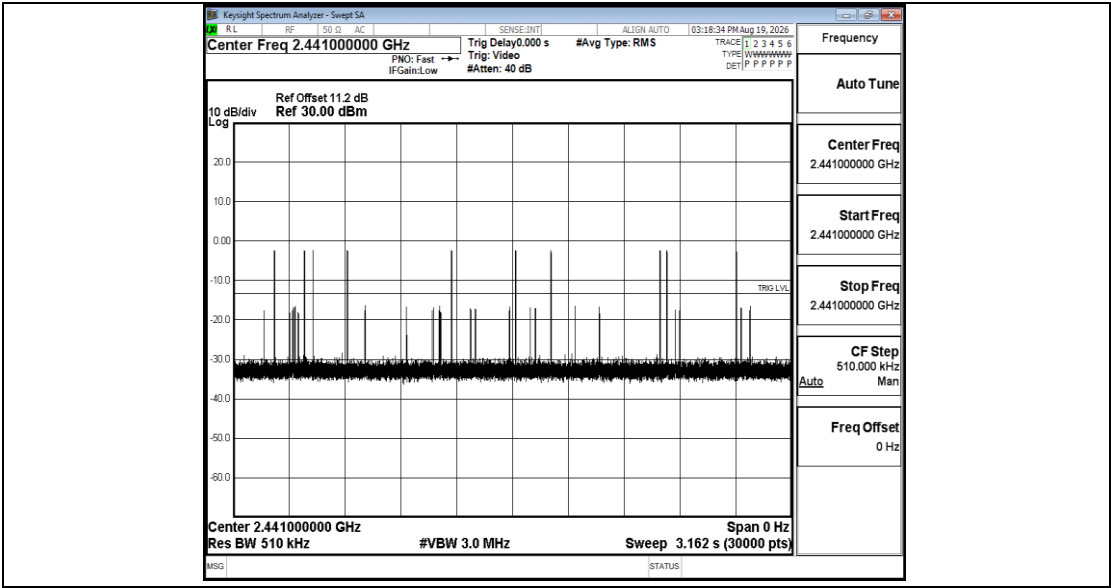
Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	80	0.233	≤0.4	PASS
2DH5	Ant1	Hop	2.896	130	0.376	≤0.4	PASS
3DH5	Ant1	Hop	2.896	110	0.319	≤0.4	PASS

Test Graphs





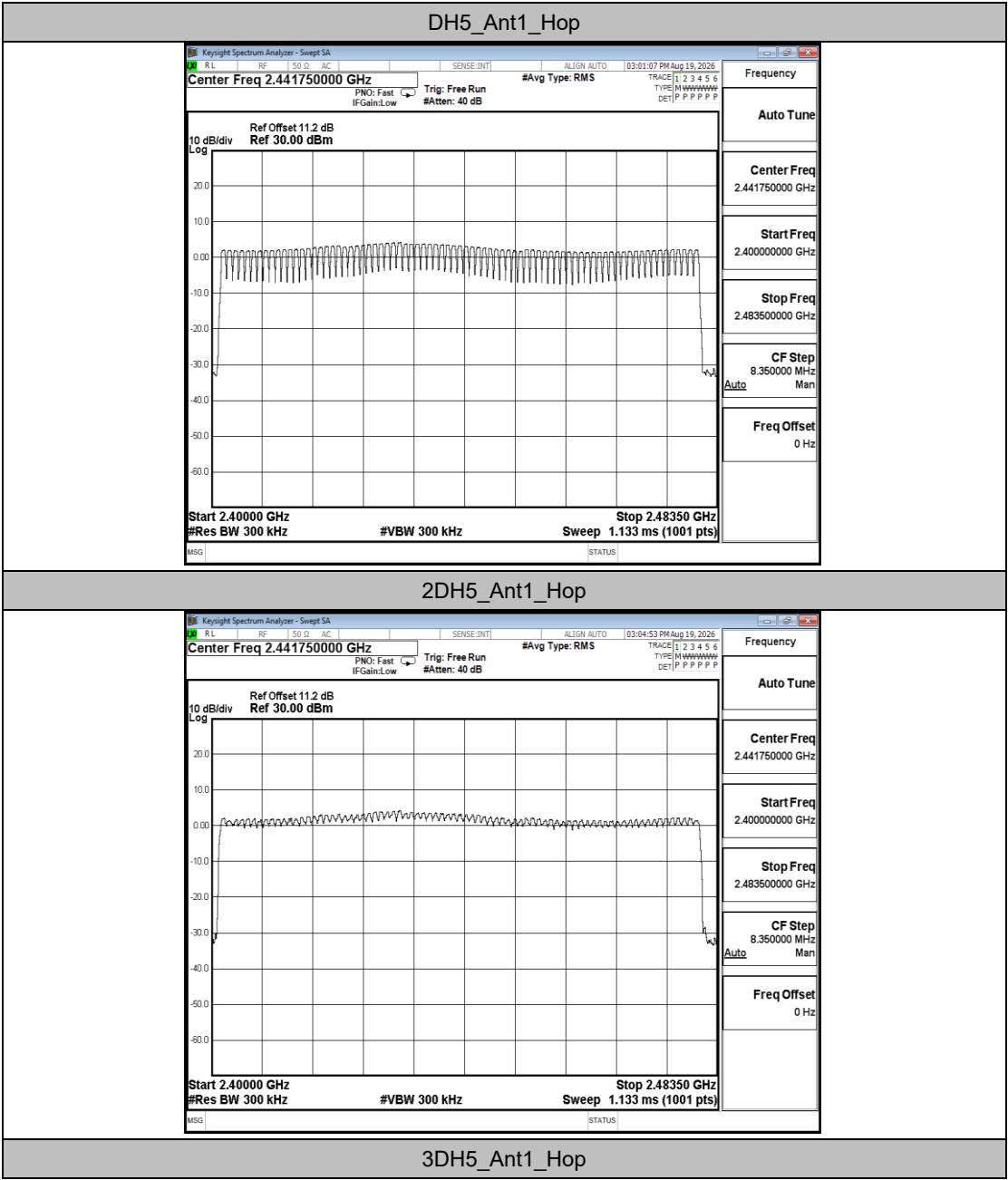


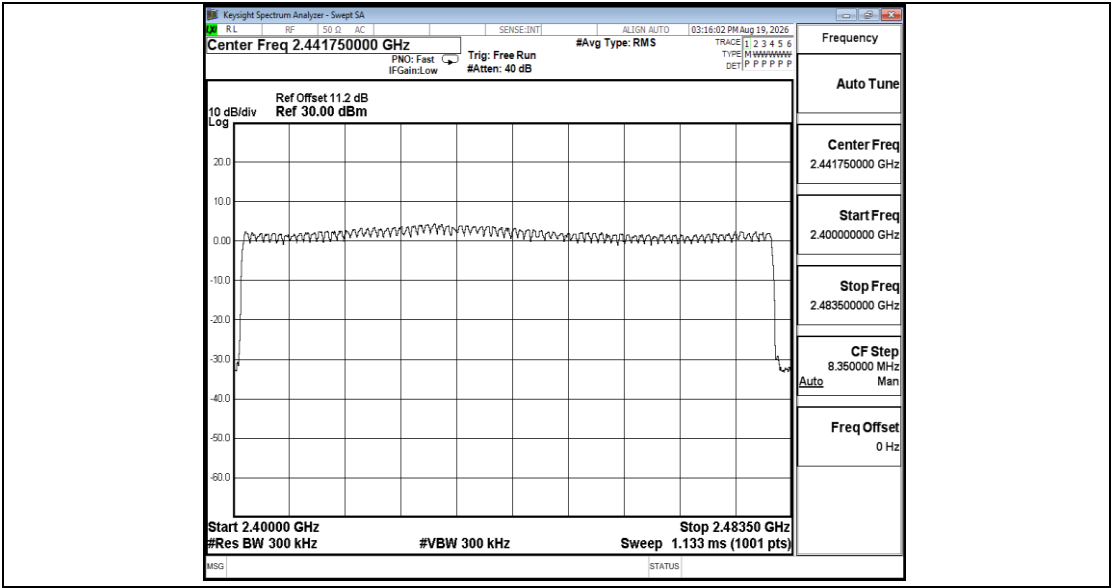
A.5 Number of hopping channels

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



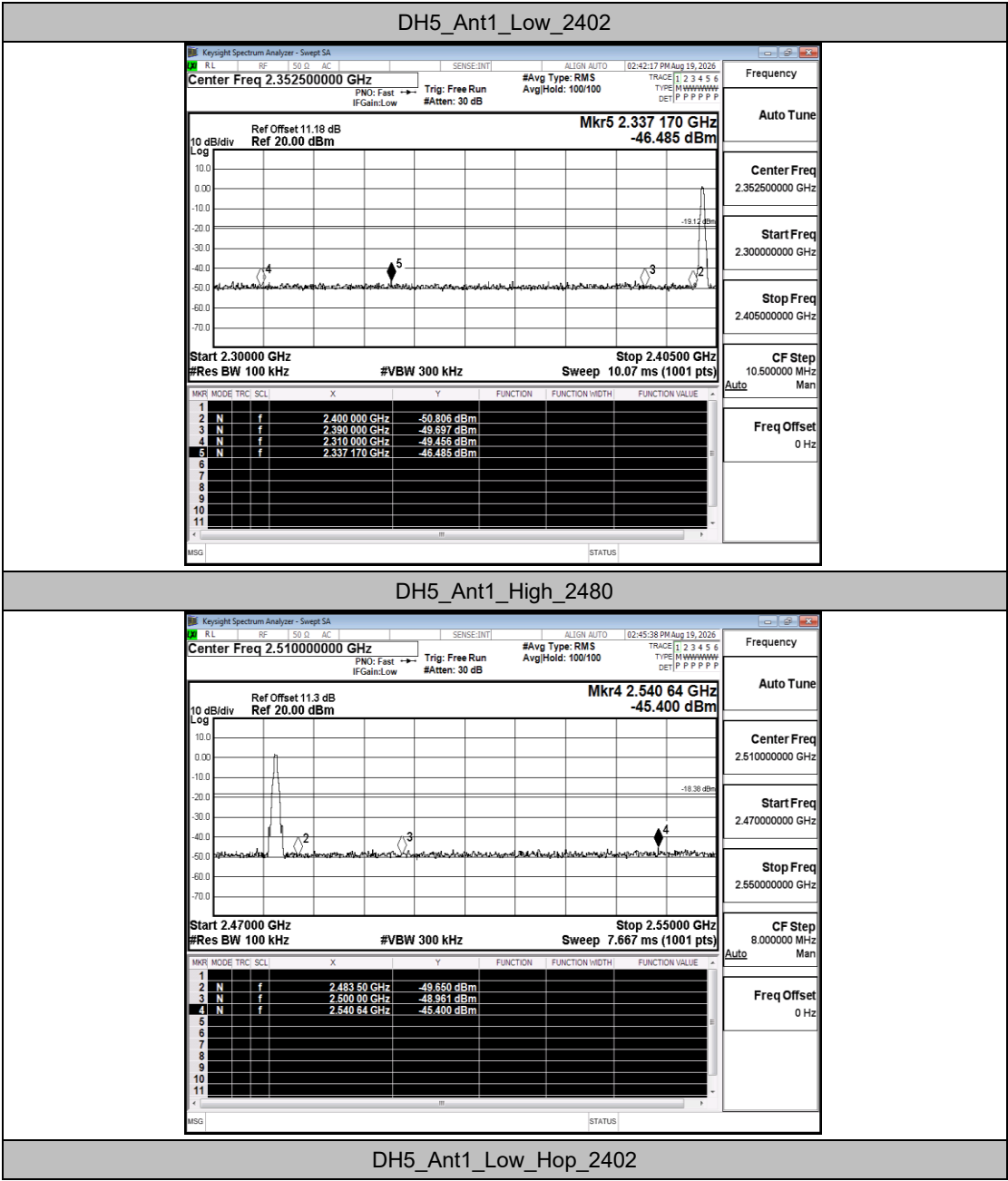


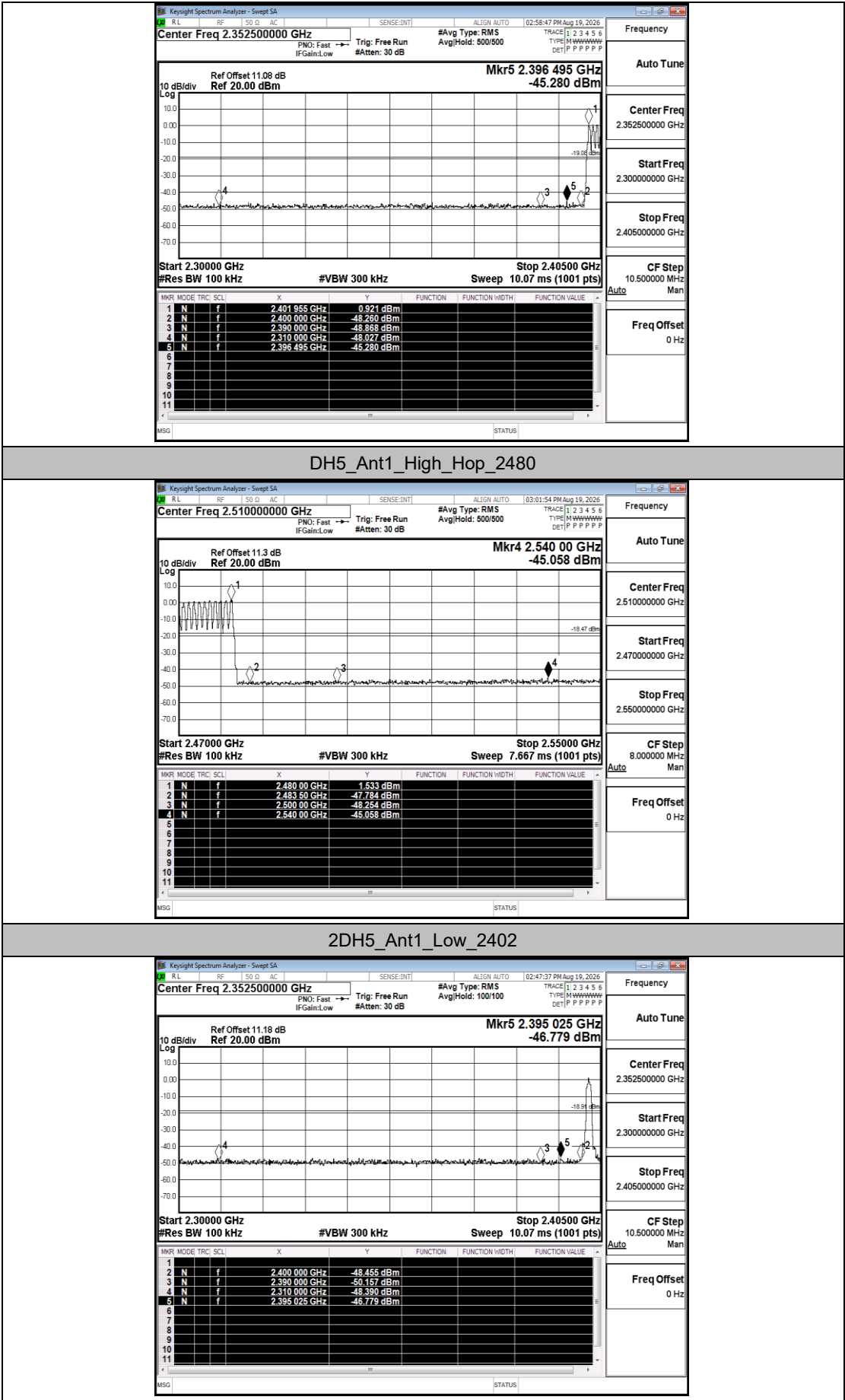
A.6 Band edge measurements

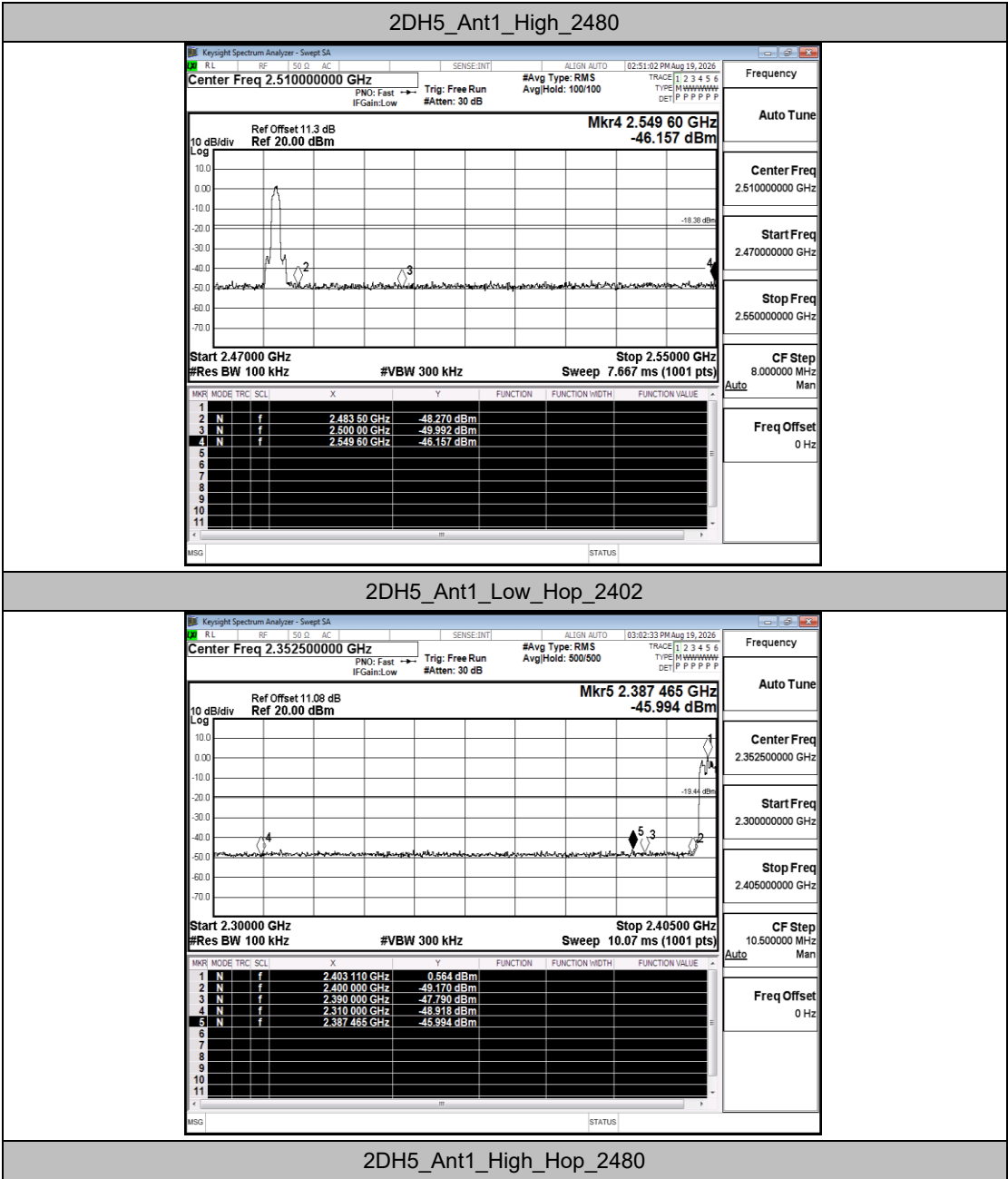
Test Result

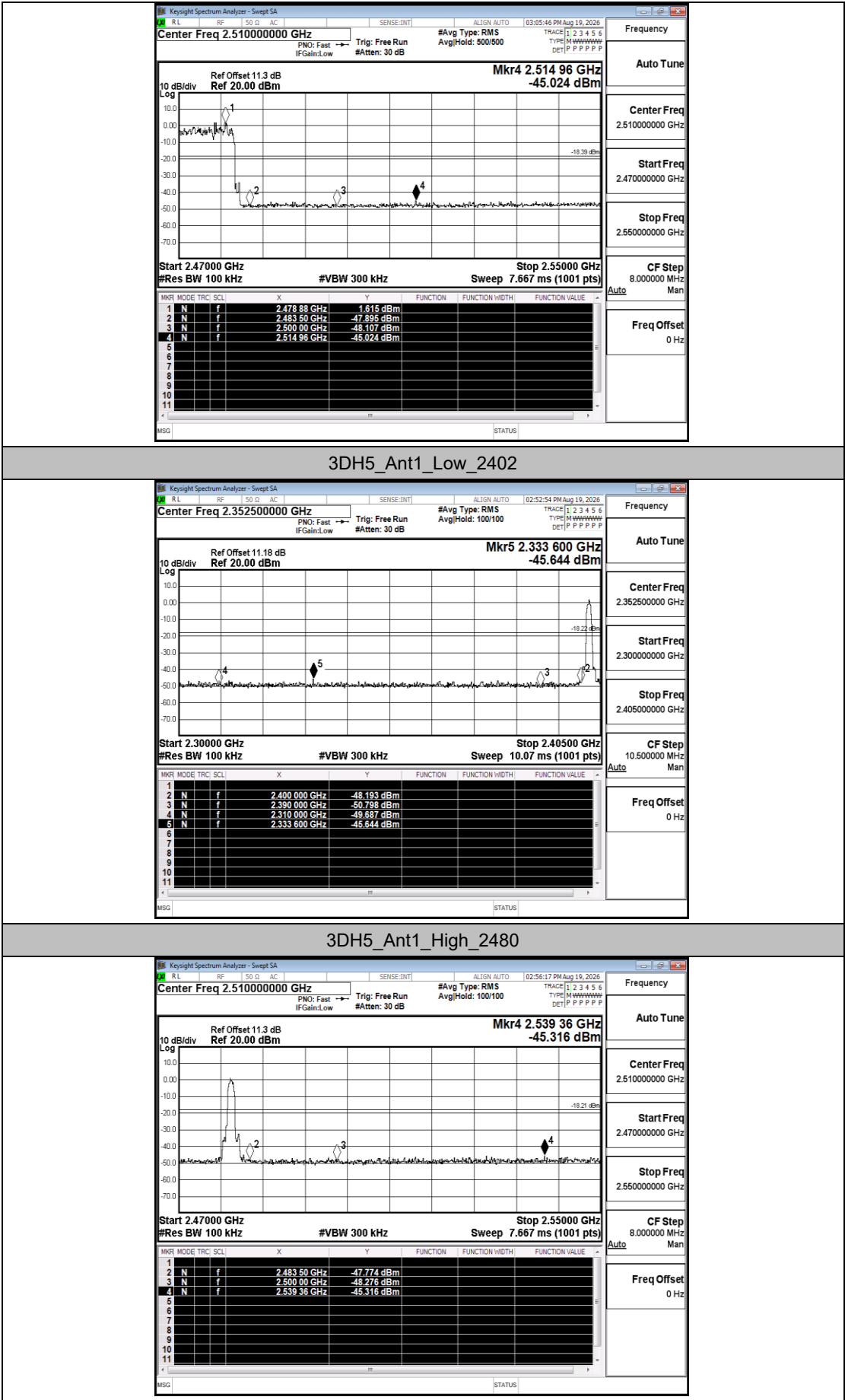
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.88	-46.49	≤-19.12	PASS
		High	2480	1.62	-45.4	≤-18.38	PASS
		Low	Hop_2402	0.92	-45.28	≤-19.08	PASS
		High	Hop_2480	1.53	-45.06	≤-18.47	PASS
2DH5	Ant1	Low	2402	1.09	-46.78	≤-18.91	PASS
		High	2480	1.62	-46.16	≤-18.38	PASS
		Low	Hop_2402	0.56	-45.99	≤-19.44	PASS
		High	Hop_2480	1.62	-45.02	≤-18.39	PASS
3DH5	Ant1	Low	2402	1.78	-45.64	≤-18.22	PASS
		High	2480	1.79	-45.32	≤-18.21	PASS
		Low	Hop_2402	0.68	-46.21	≤-19.33	PASS
		High	Hop_2480	0.76	-45.06	≤-19.24	PASS

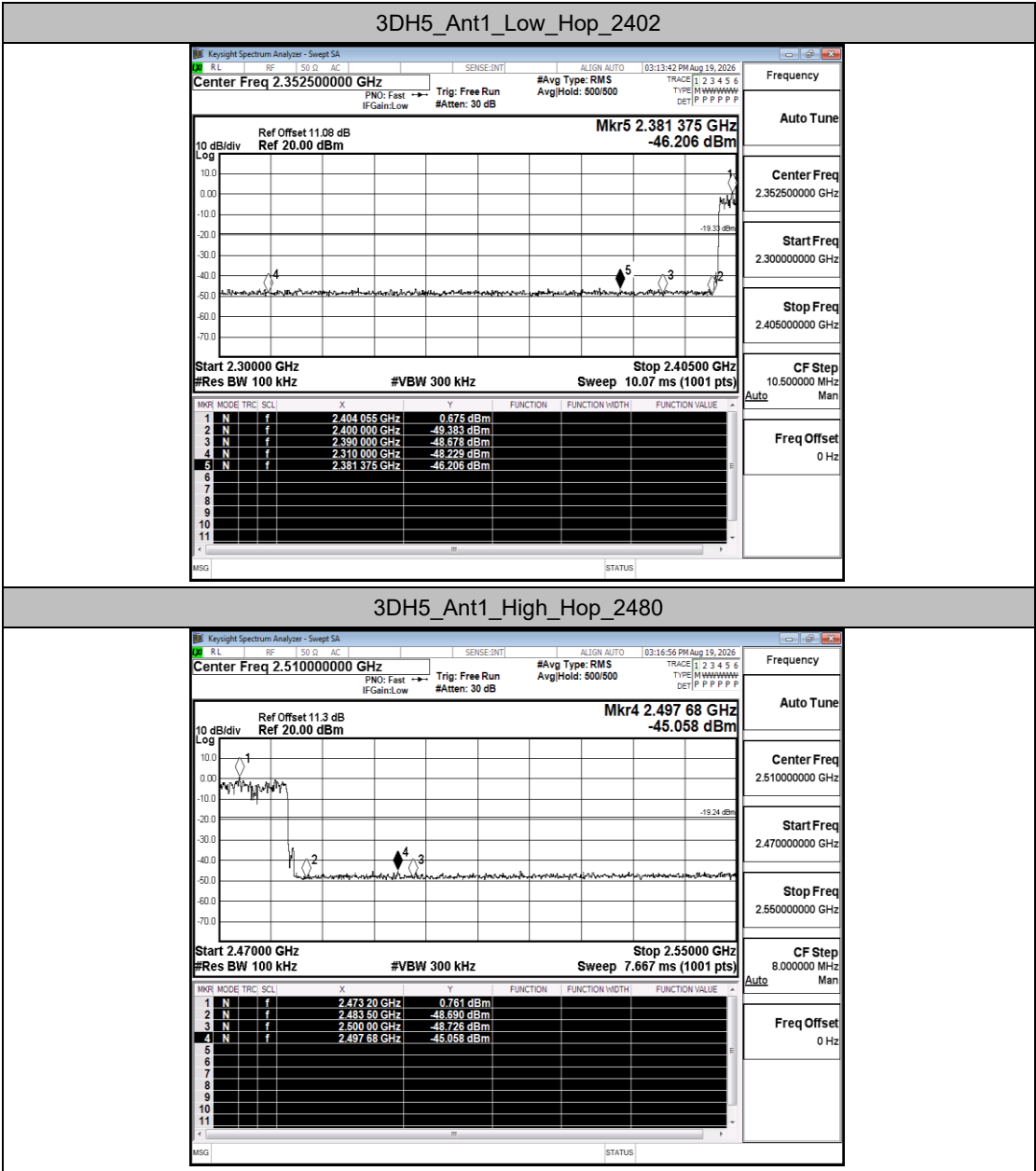
Test Graphs











A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.90	0.90	---	PASS
			30~1000	0.90	-53	≤-19.1	PASS
			1000~26500	0.90	-44.78	≤-19.1	PASS
		2441	Reference	2.20	2.20	---	PASS
			30~1000	2.20	-55.59	≤-17.8	PASS
			1000~26500	2.20	-44.39	≤-17.8	PASS
		2480	Reference	1.62	1.62	---	PASS
			30~1000	1.62	-56.55	≤-18.38	PASS
			1000~26500	1.62	-43.06	≤-18.38	PASS
2DH5	Ant1	2402	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-56.7	≤-18.88	PASS
			1000~26500	1.12	-44.51	≤-18.88	PASS
		2441	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-56.72	≤-17.32	PASS
			1000~26500	2.68	-43.58	≤-17.32	PASS
		2480	Reference	1.76	1.76	---	PASS
			30~1000	1.76	-44.11	≤-18.24	PASS
			1000~26500	1.76	-44.38	≤-18.24	PASS
3DH5	Ant1	2402	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-56.1	≤-18.16	PASS
			1000~26500	1.84	-44.52	≤-18.16	PASS
		2441	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-47.15	≤-17.04	PASS
			1000~26500	2.96	-43.65	≤-17.04	PASS
		2480	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-42.11	≤-18.1	PASS
			1000~26500	1.90	-44.47	≤-18.1	PASS

Test Graphs

