

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wi-Fi Hub

Test Model: GWB03

Environmental Conditions

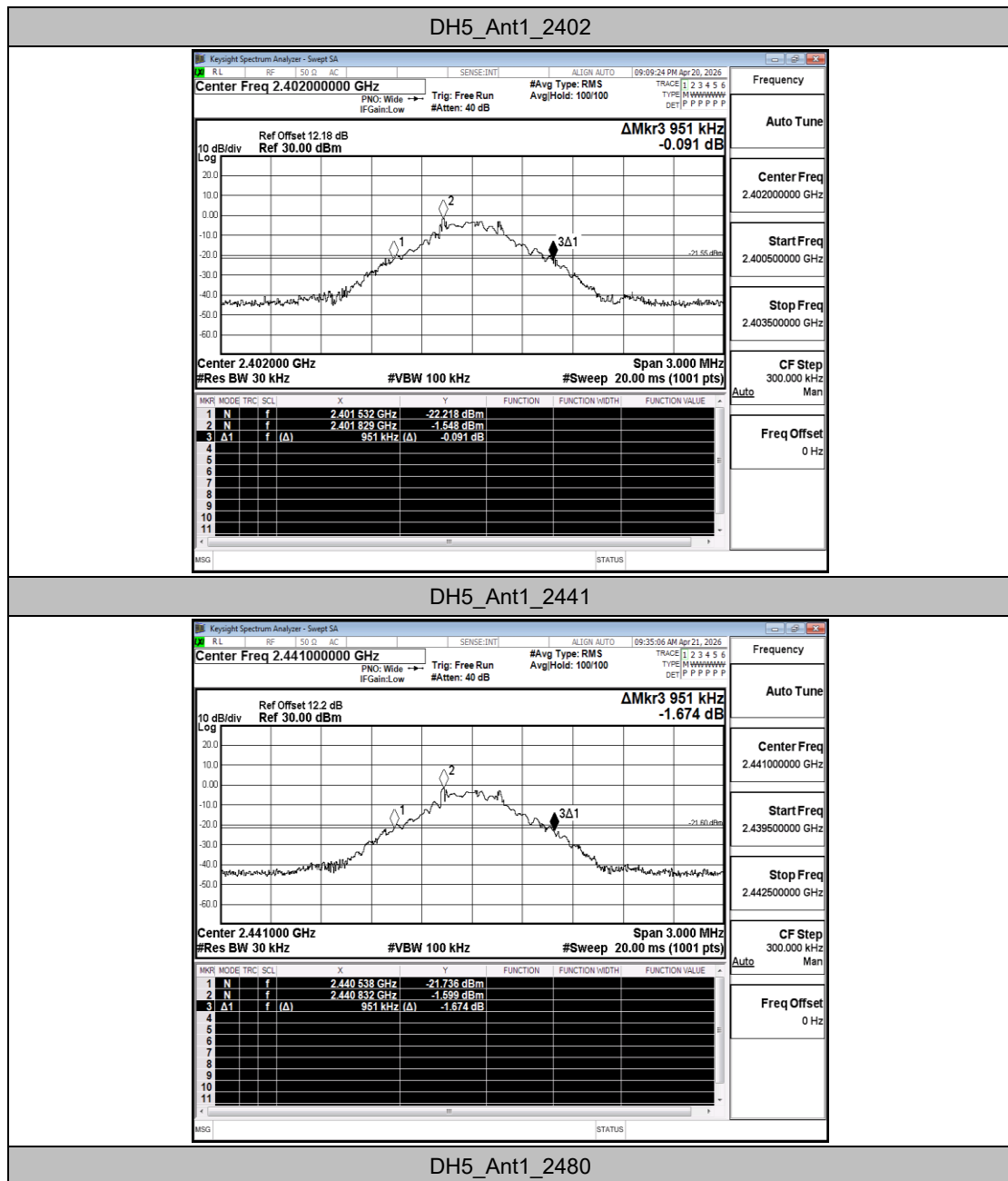
Temperature:	24.3°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

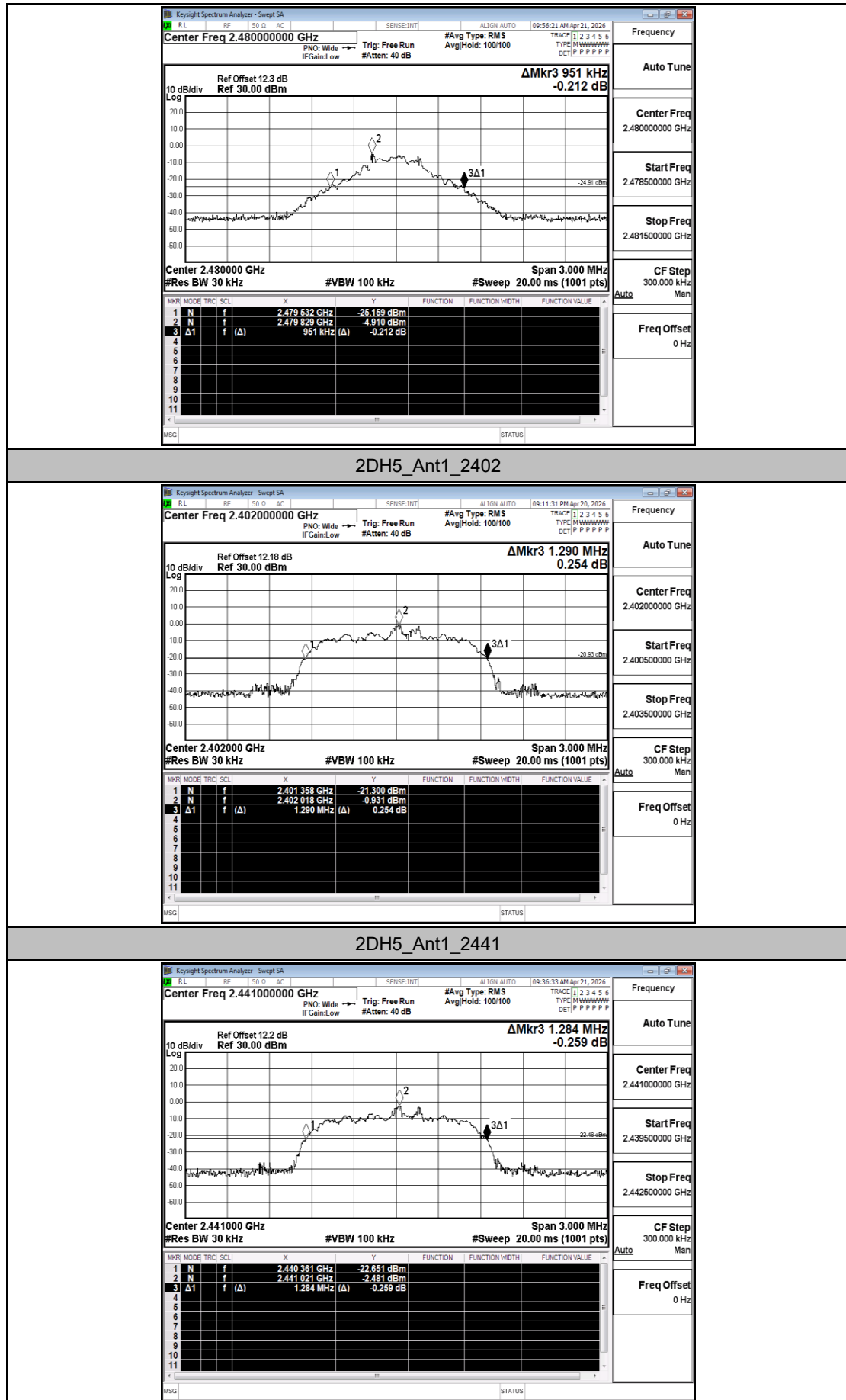
A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.951	2401.532	2402.483	---	---
		2441	0.951	2440.538	2441.489	---	---
		2480	0.951	2479.532	2480.483	---	---
2DH5	Ant1	2402	1.290	2401.358	2402.648	---	---
		2441	1.284	2440.361	2441.645	---	---
		2480	1.296	2479.352	2480.648	---	---
3DH5	Ant1	2402	1.302	2401.343	2402.645	---	---
		2441	1.296	2440.346	2441.642	---	---
		2480	1.299	2479.343	2480.642	---	---

Test Graphs



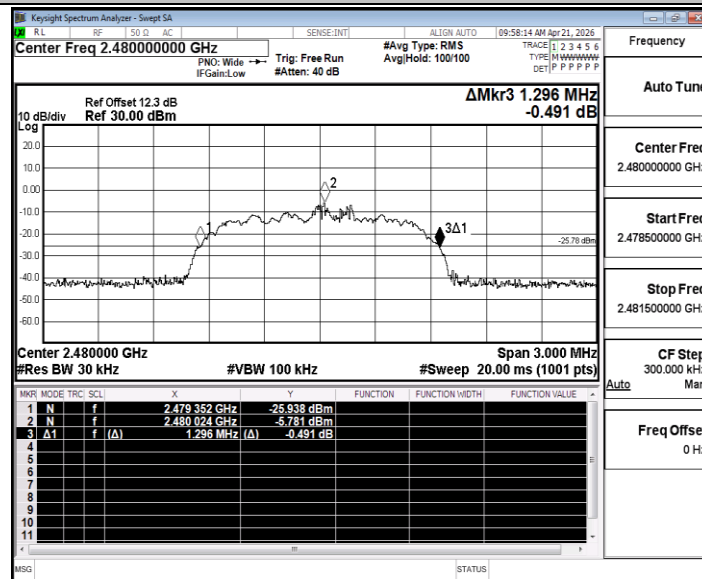


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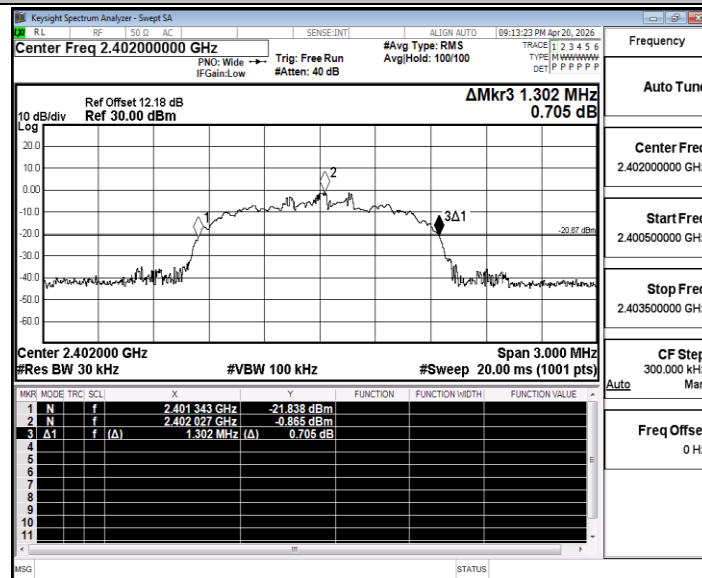
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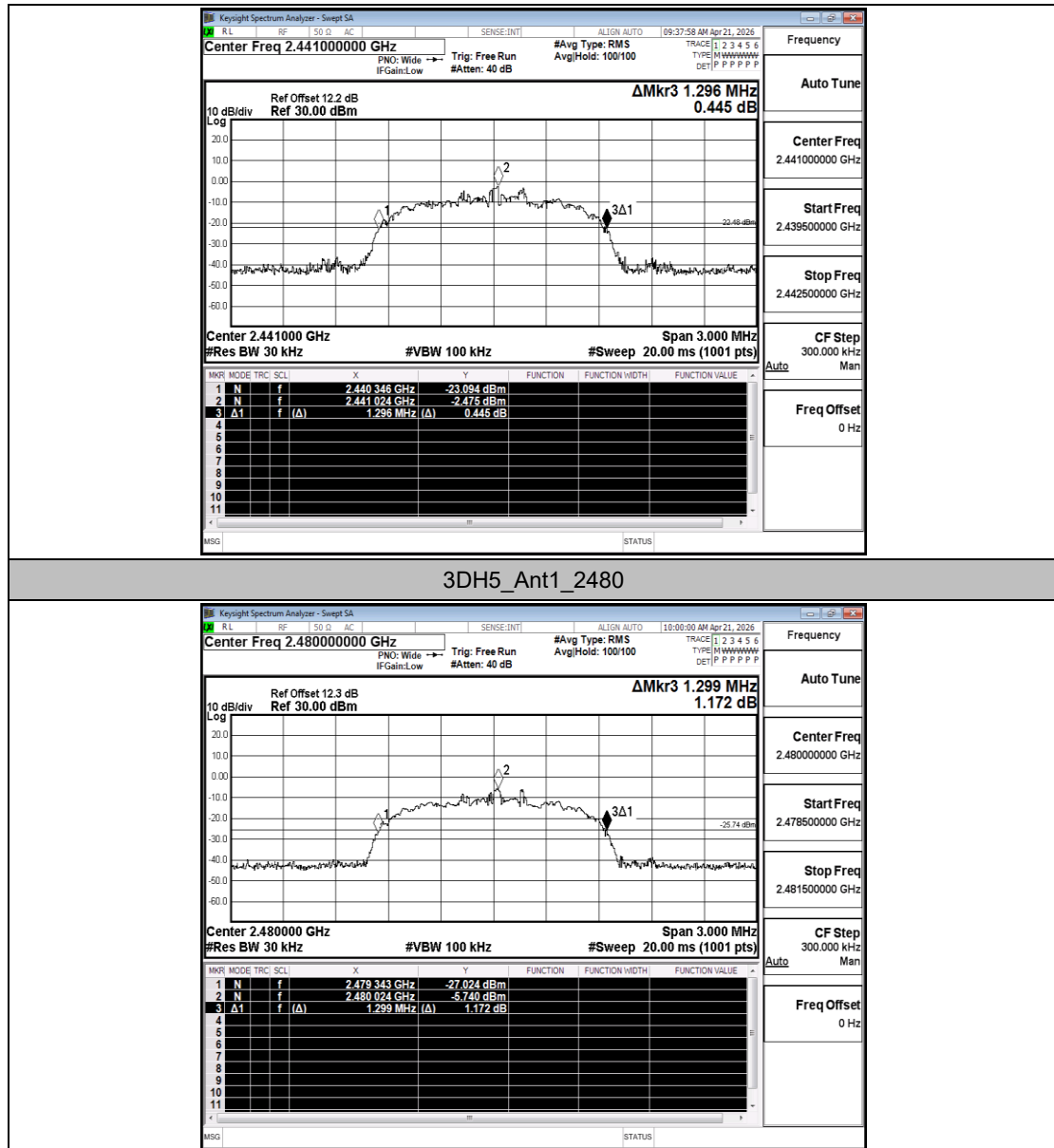
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

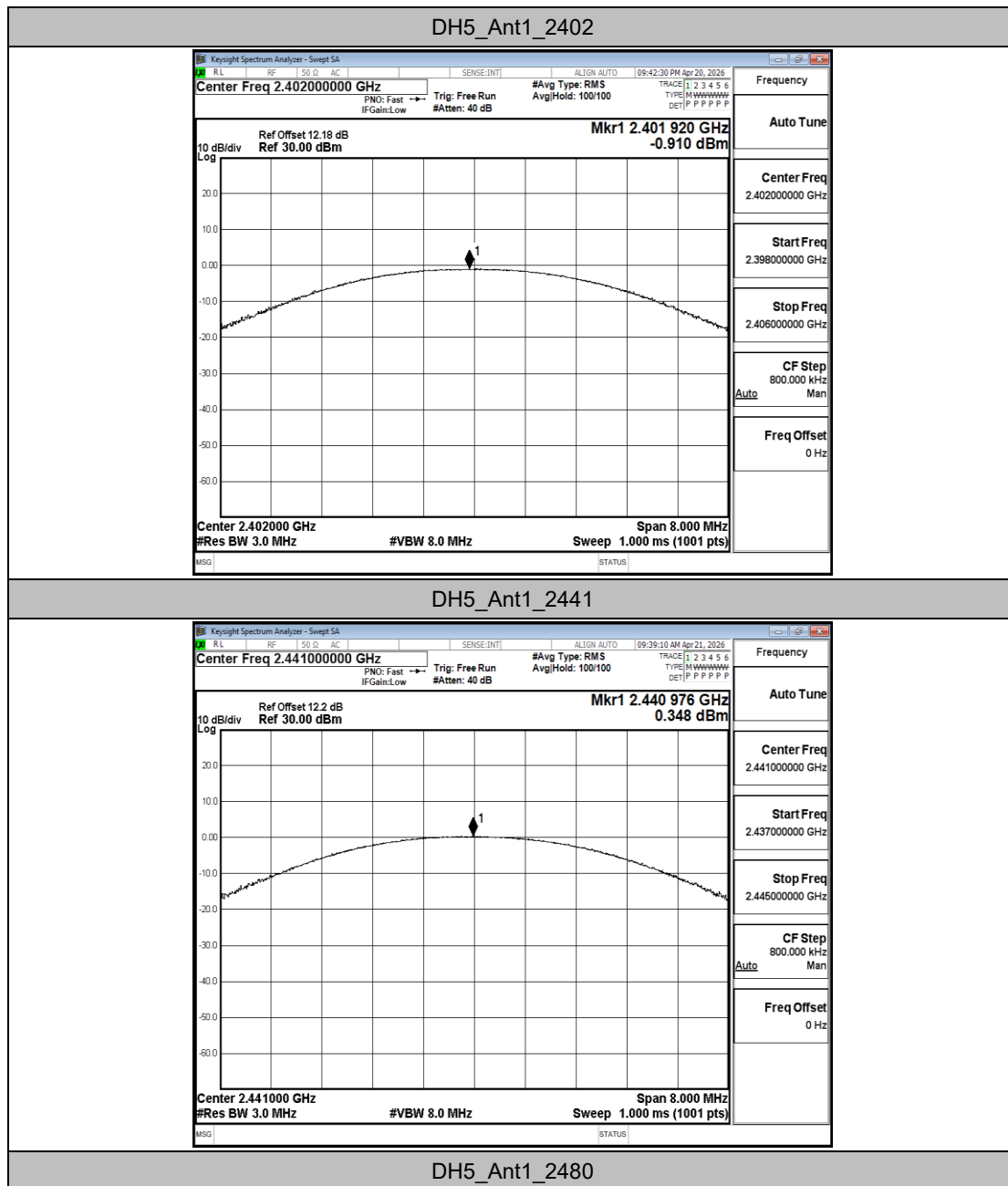


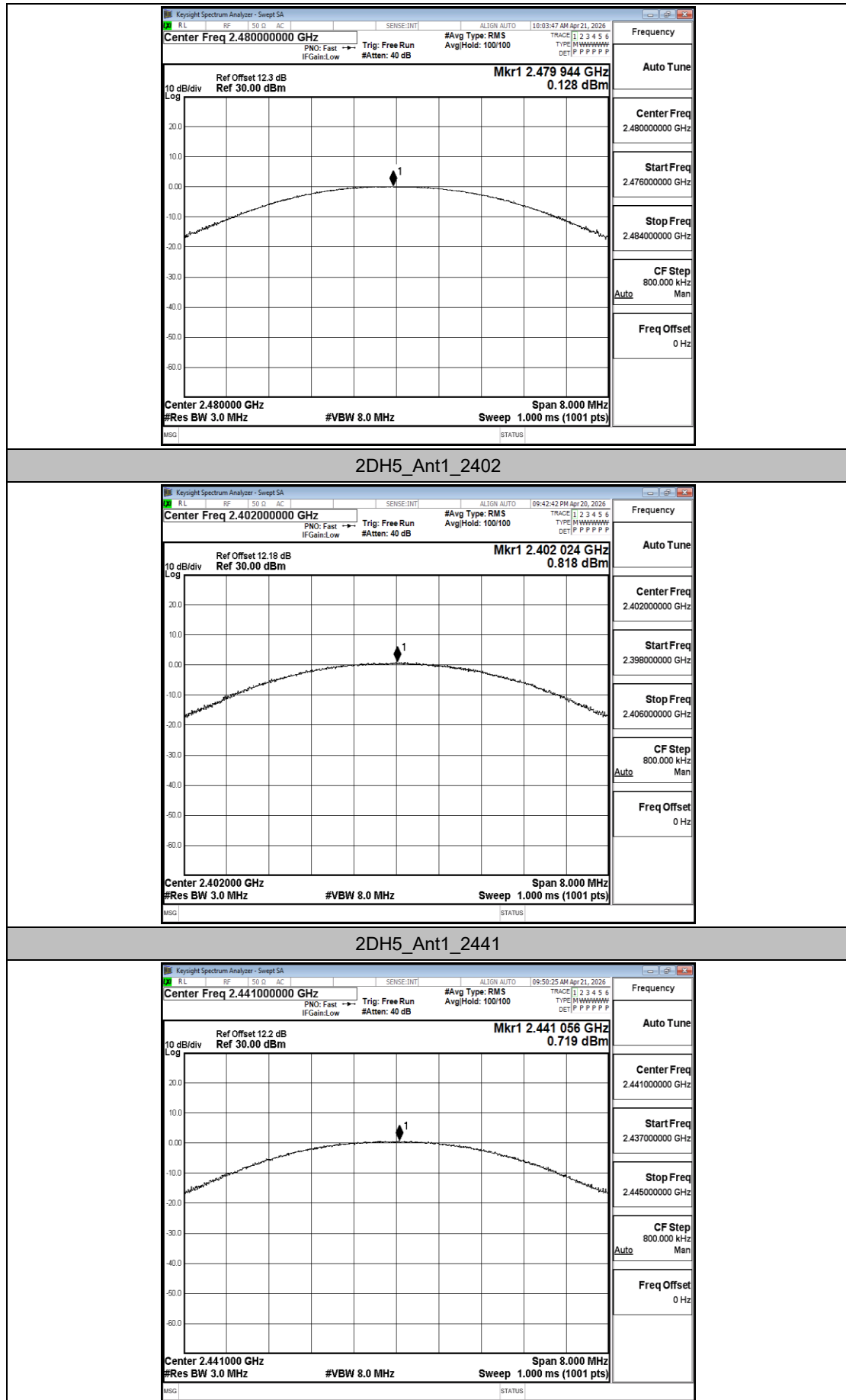
A.2 Maximum Peak conducted output power

Test Result Peak

Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.91	≤30	PASS
		2441	0.35	≤30	PASS
		2480	0.13	≤30	PASS
2DH5	Ant1	2402	0.82	≤30	PASS
		2441	0.72	≤30	PASS
		2480	-1.57	≤30	PASS
3DH5	Ant1	2402	-1.09	≤30	PASS
		2441	0.99	≤30	PASS
		2480	-1.09	≤30	PASS

Test Graphs



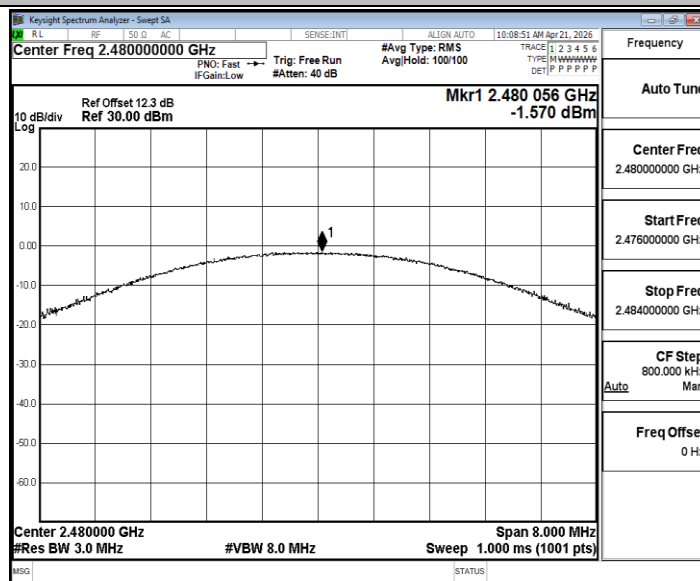


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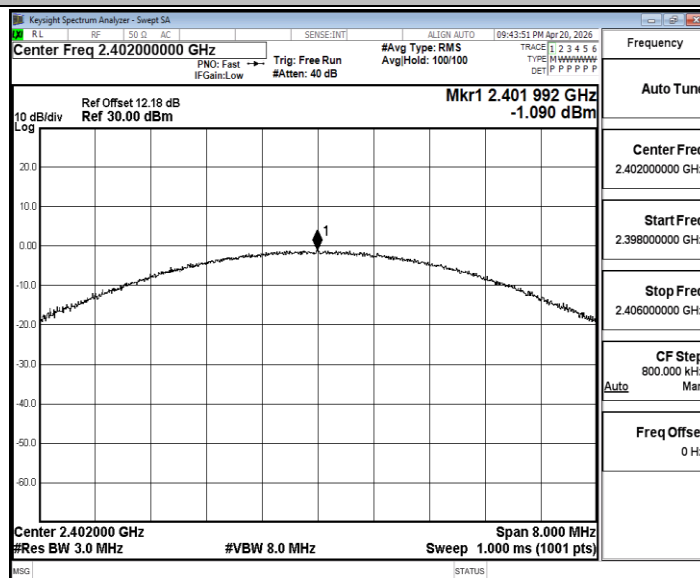
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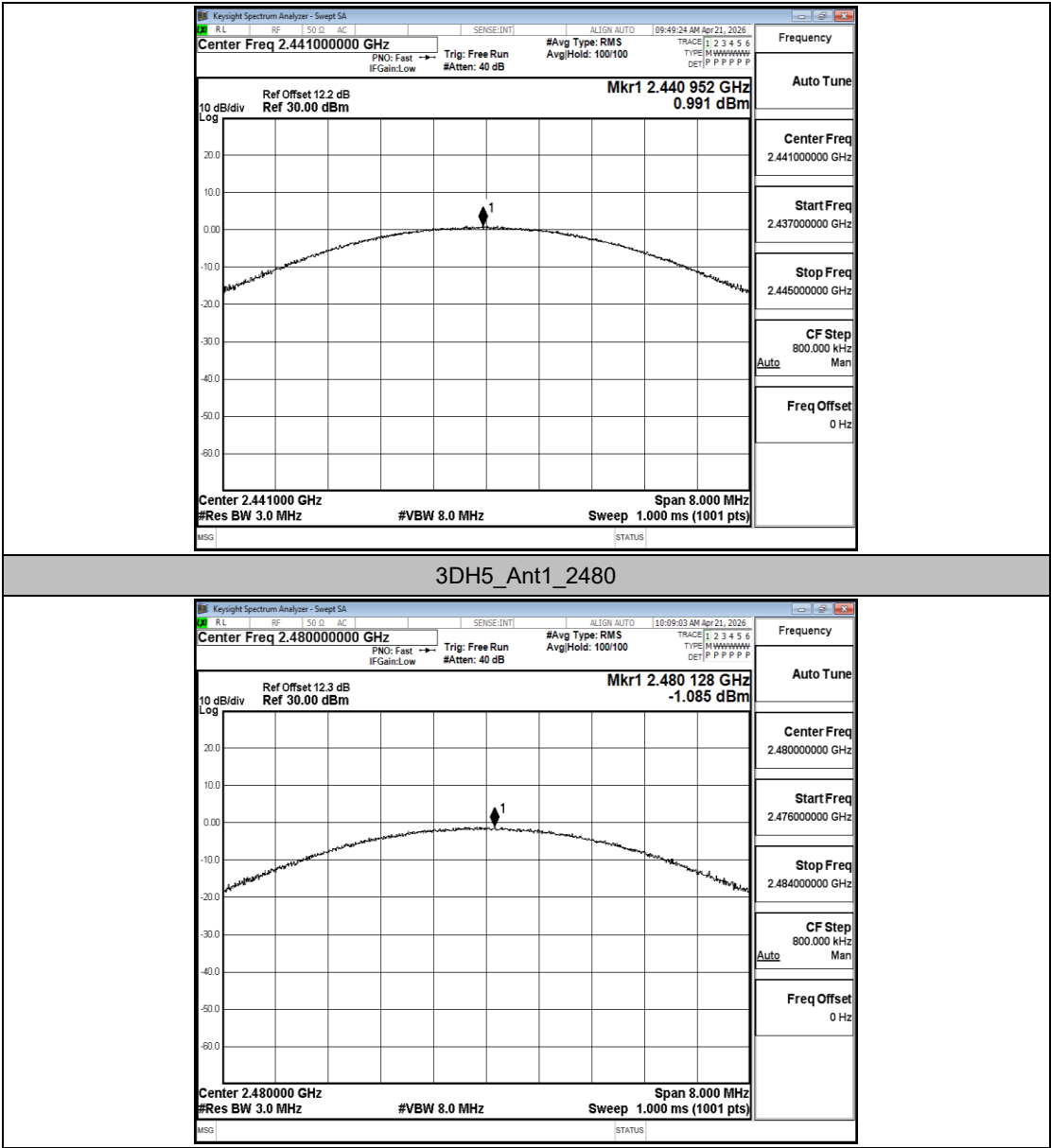
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

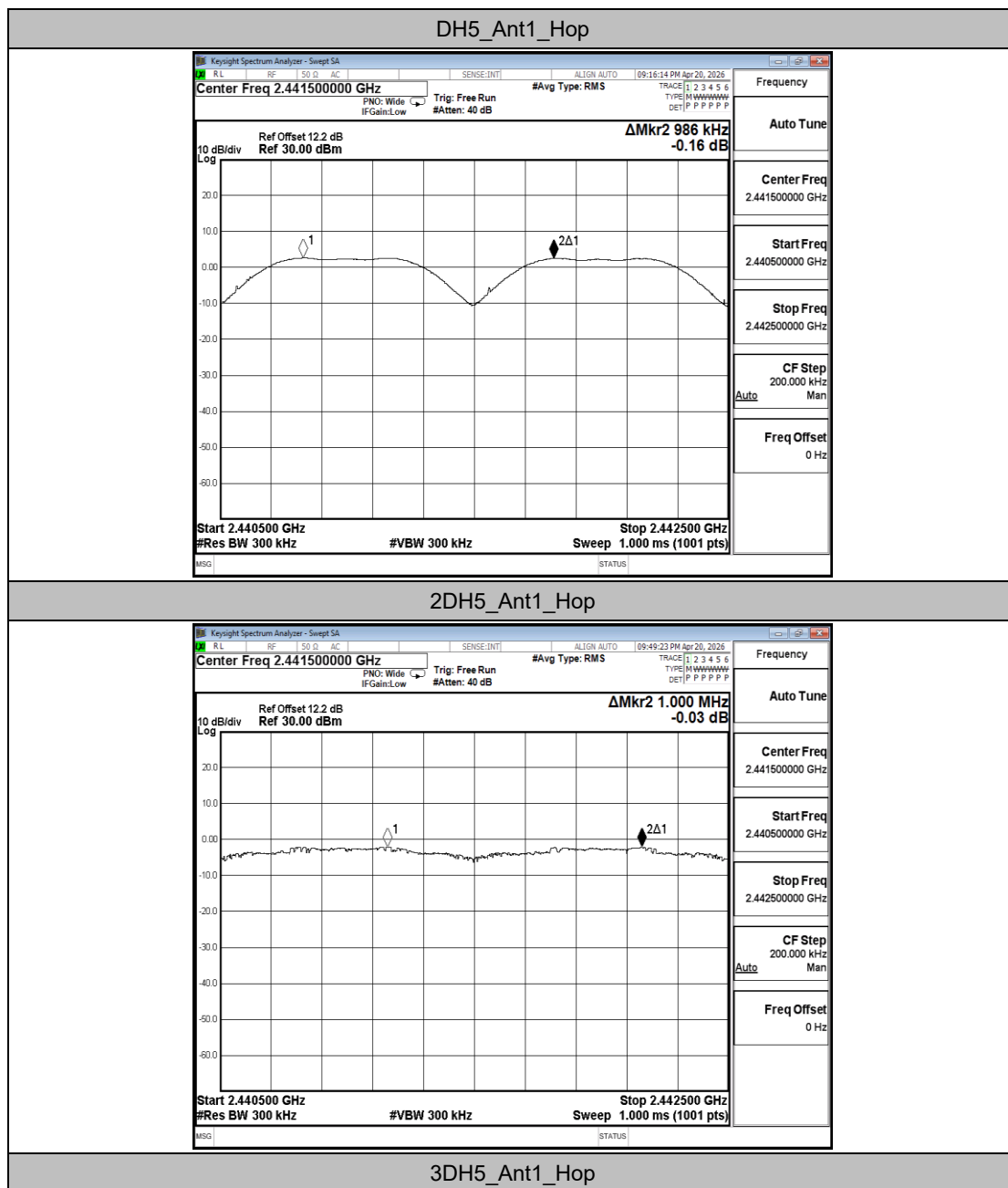


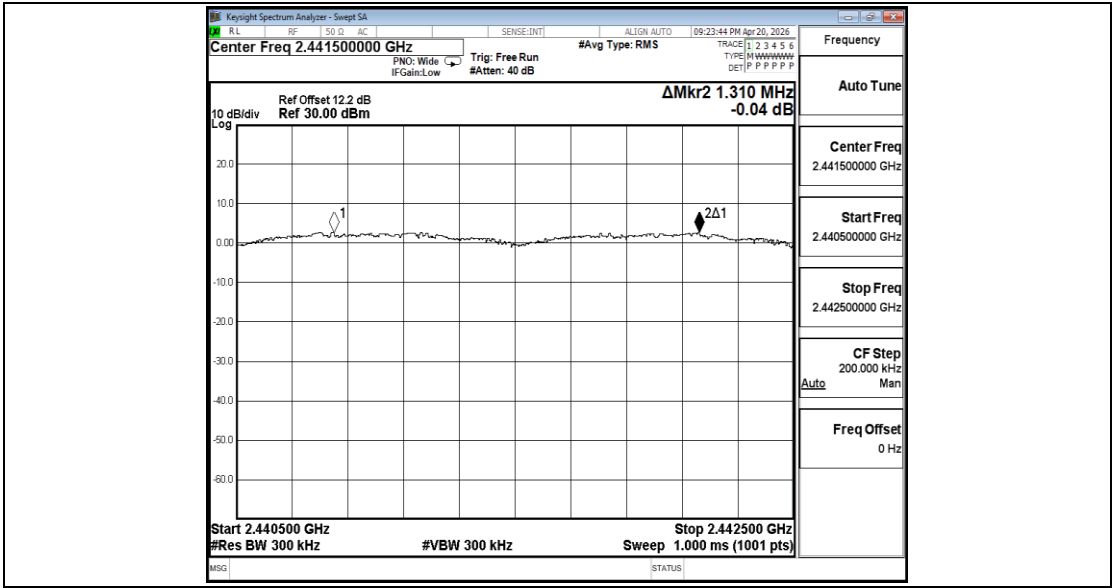
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.986	≥0.951	PASS
2DH5	Ant1	Hop	1	≥0.860	PASS
3DH5	Ant1	Hop	1.31	≥1.302	PASS

Test Graphs



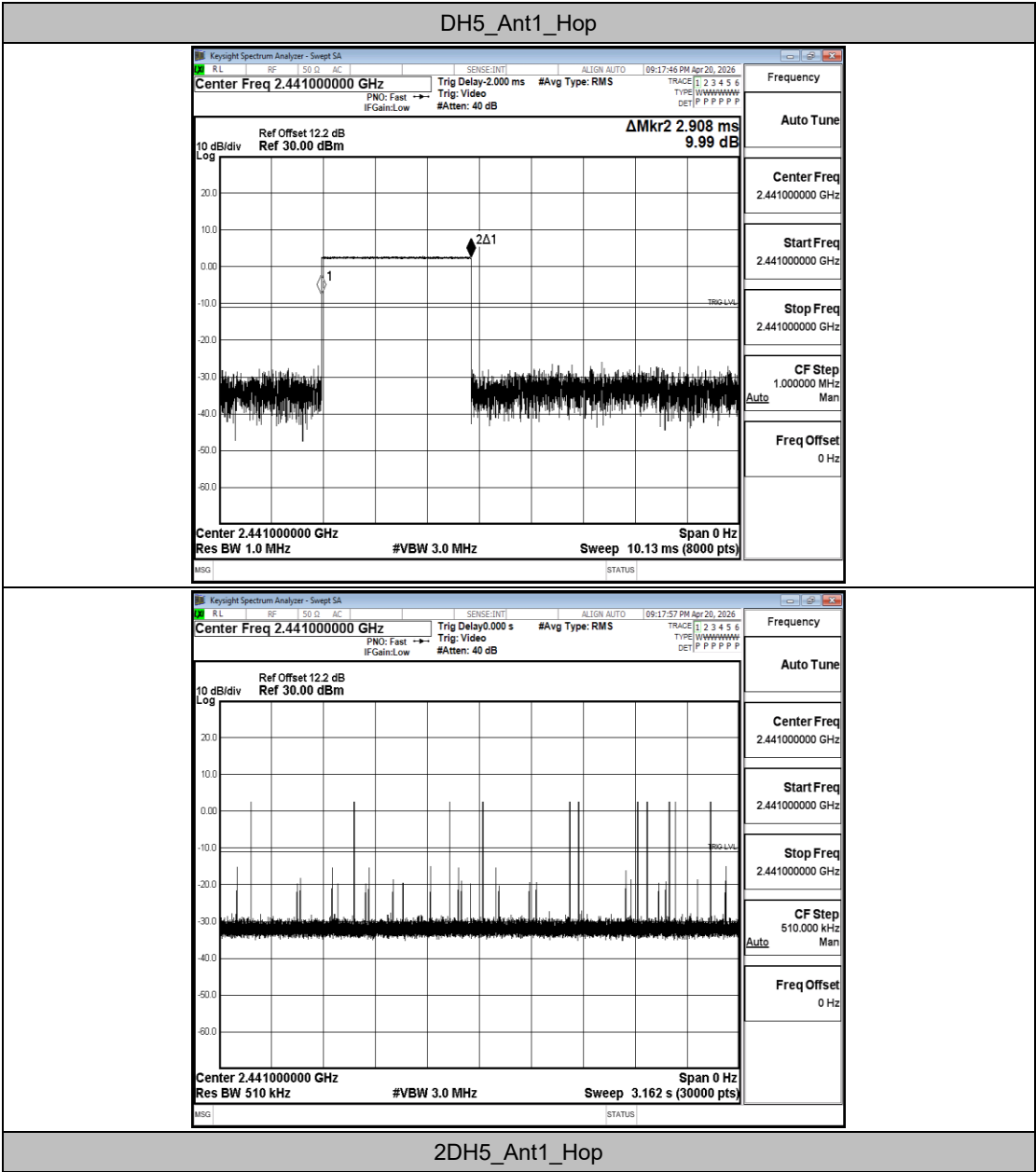


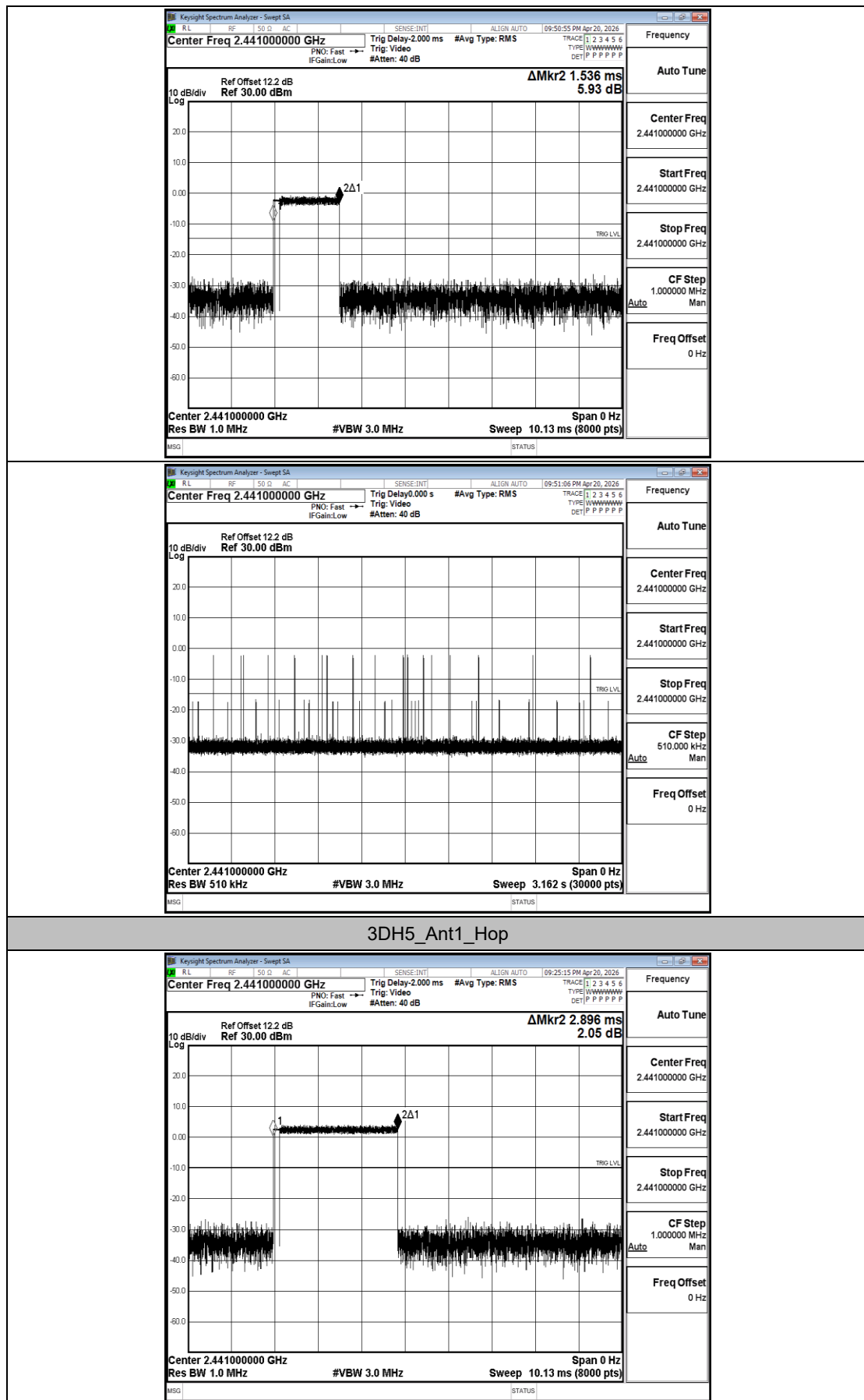
A.4 Time of occupancy

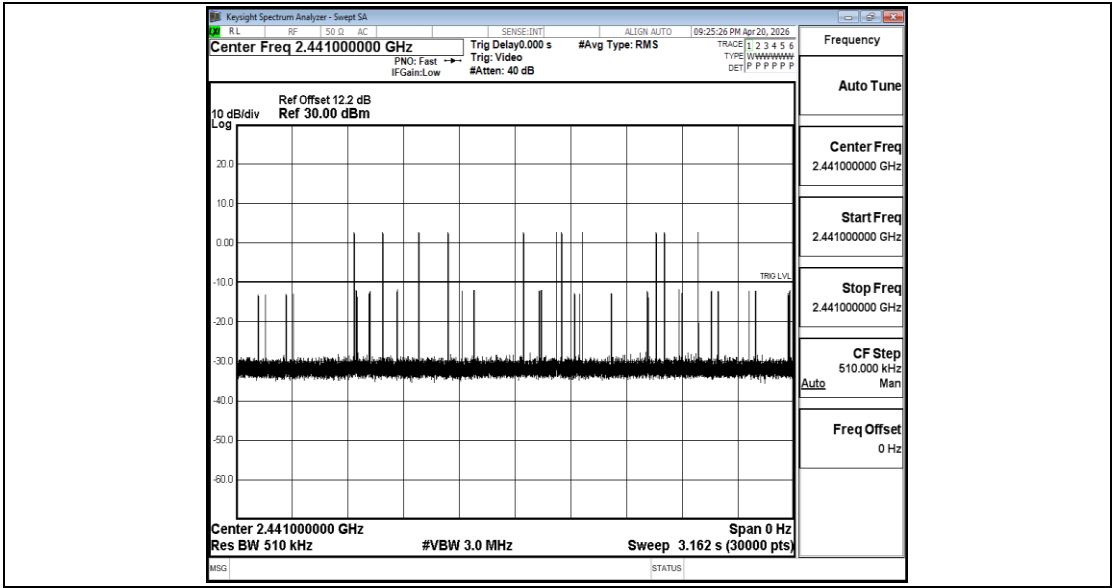
Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	120	0.349	≤0.4	PASS
2DH5	Ant1	Hop	1.536	180	0.276	≤0.4	PASS
3DH5	Ant1	Hop	2.896	130	0.376	≤0.4	PASS

Test Graphs





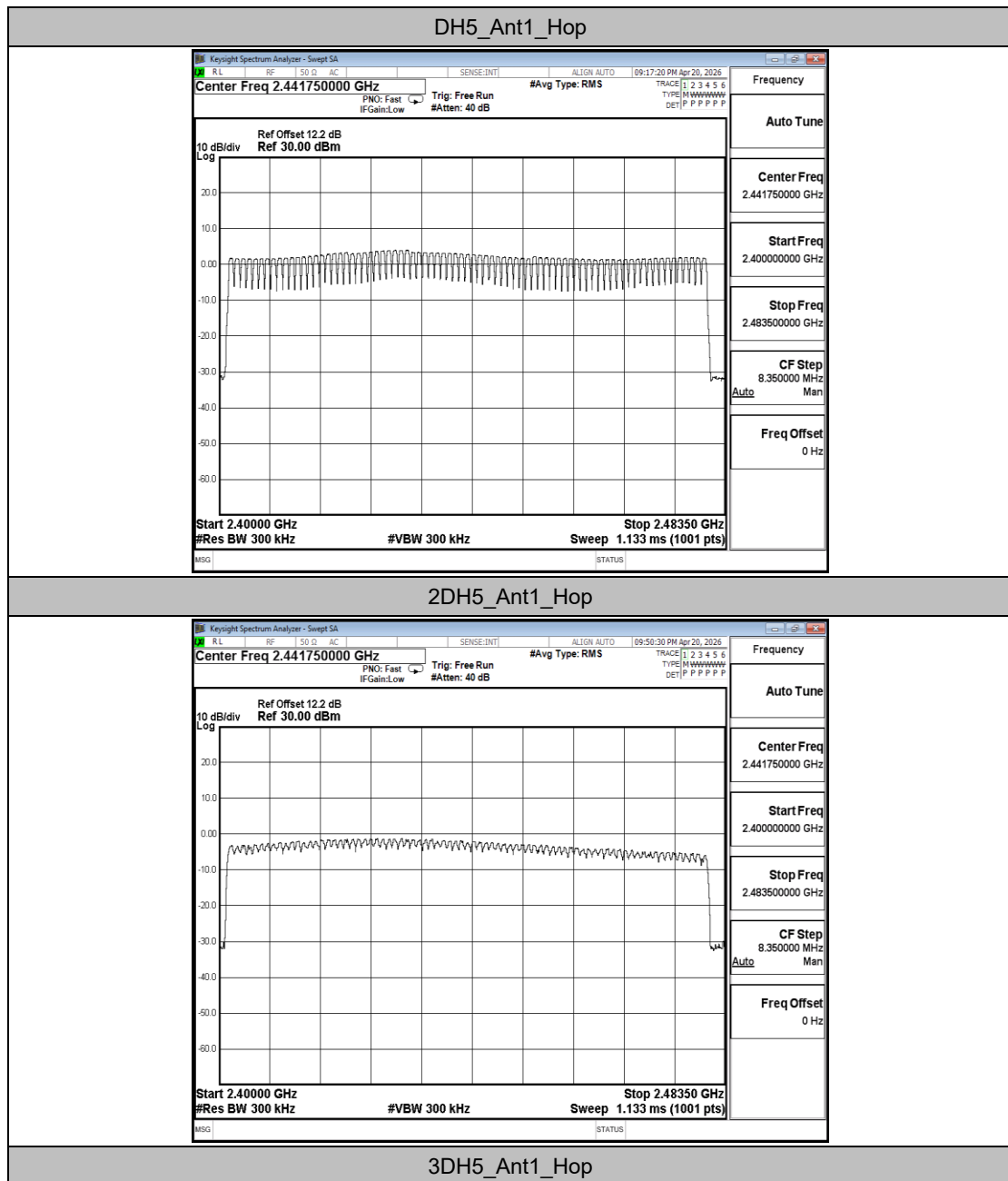


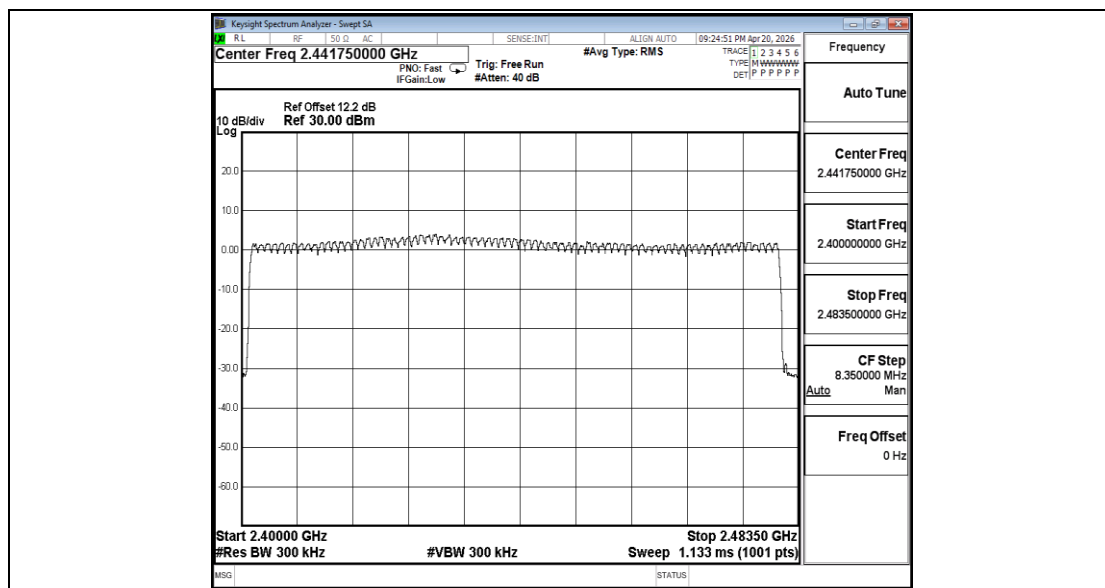
A.5 Number of hopping channels

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



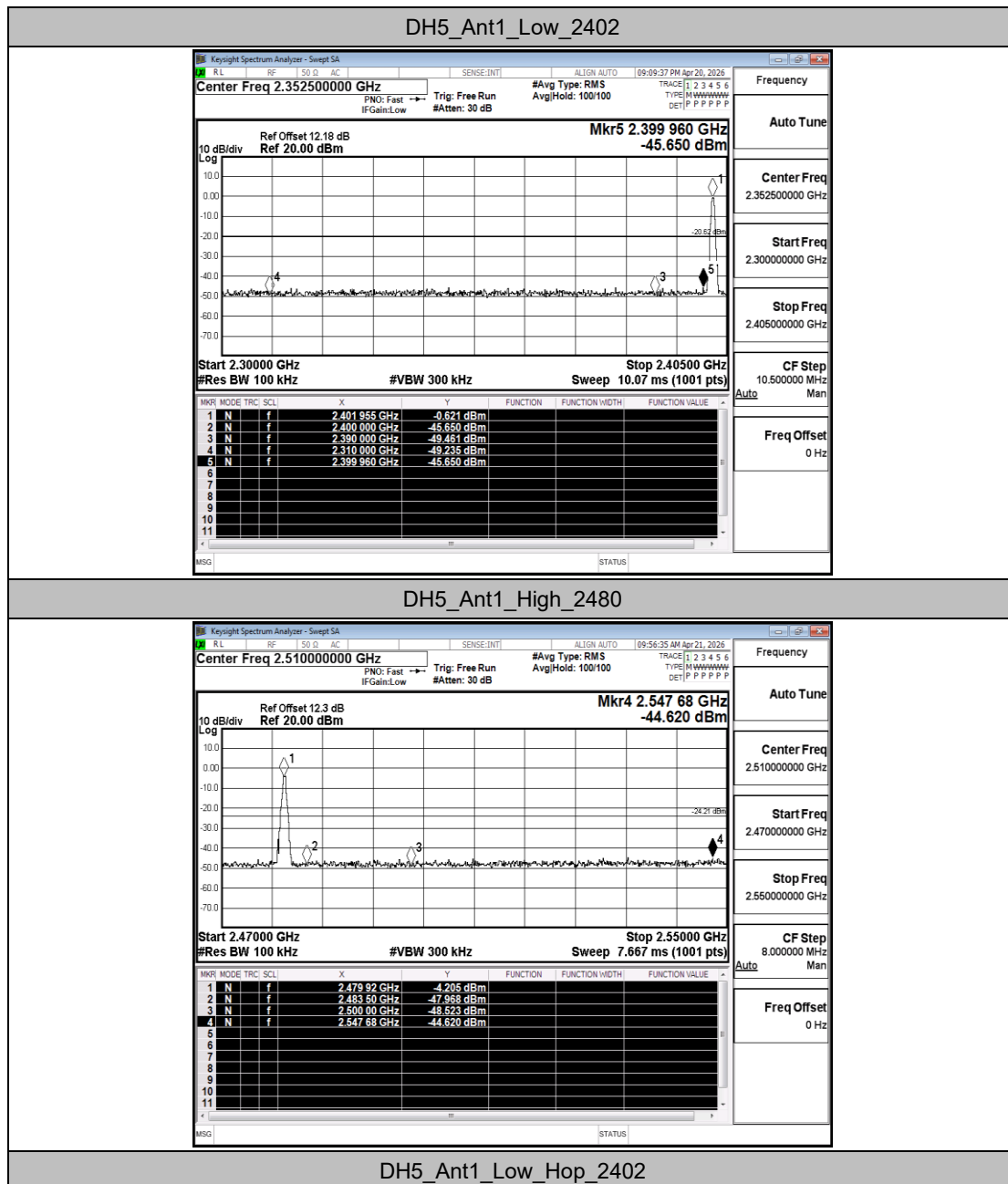


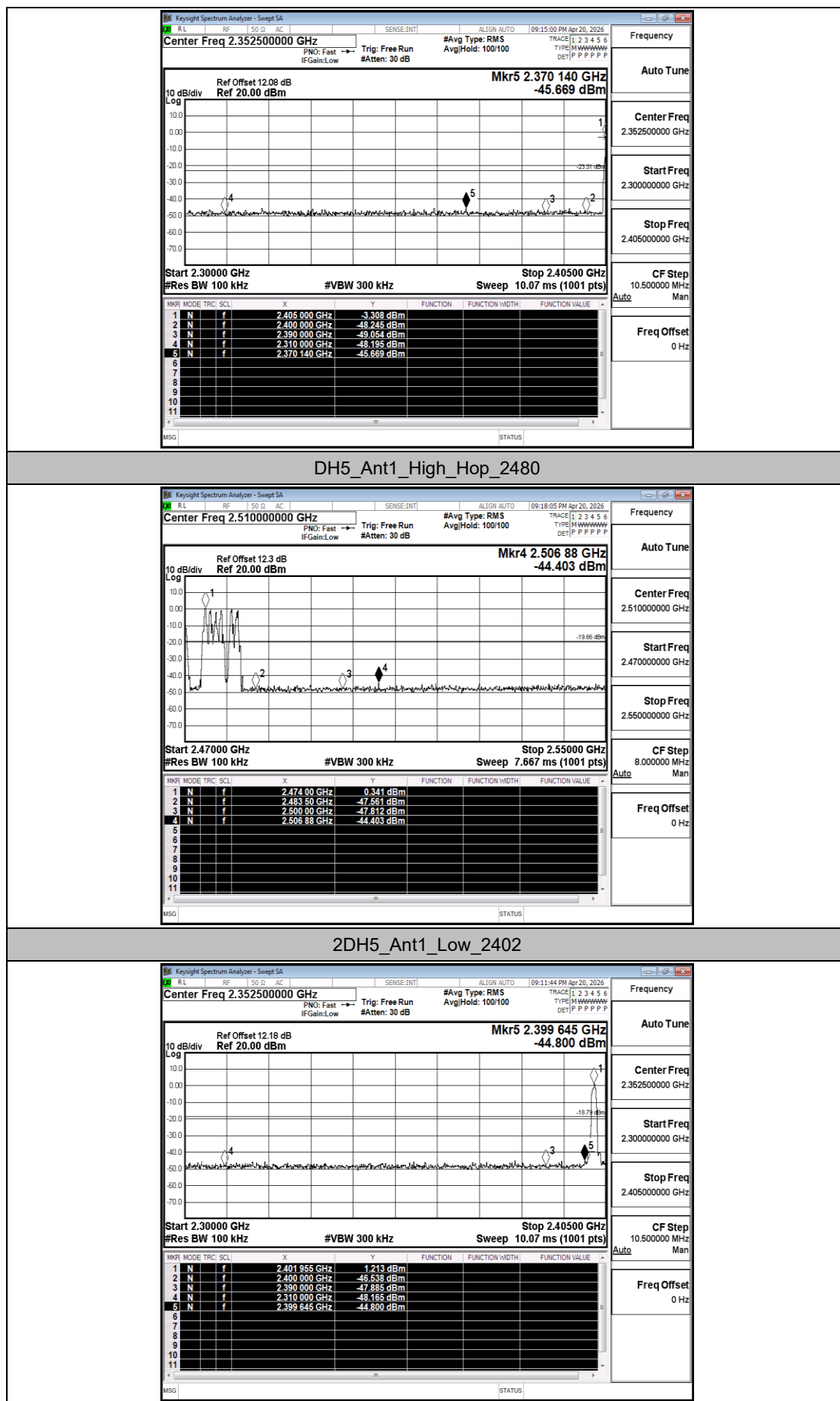
A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.62	-45.65	≤-20.62	PASS
		High	2480	-4.21	-44.62	≤-24.21	PASS
		Low	Hop_2402	-3.31	-45.67	≤-23.31	PASS
		High	Hop_2480	0.34	-44.4	≤-19.66	PASS
2DH5	Ant1	Low	2402	1.21	-44.8	≤-18.79	PASS
		High	2480	-6.64	-44.44	≤-26.64	PASS
		Low	Hop_2402	-8.22	-44.94	≤-28.22	PASS
		High	Hop_2480	-10.01	-44.58	≤-30.01	PASS
3DH5	Ant1	Low	2402	1.33	-44.81	≤-18.67	PASS
		High	2480	-3.84	-44.15	≤-23.84	PASS
		Low	Hop_2402	-2.38	-45.32	≤-22.38	PASS
		High	Hop_2480	-0.97	-44.51	≤-20.97	PASS

Test Graphs



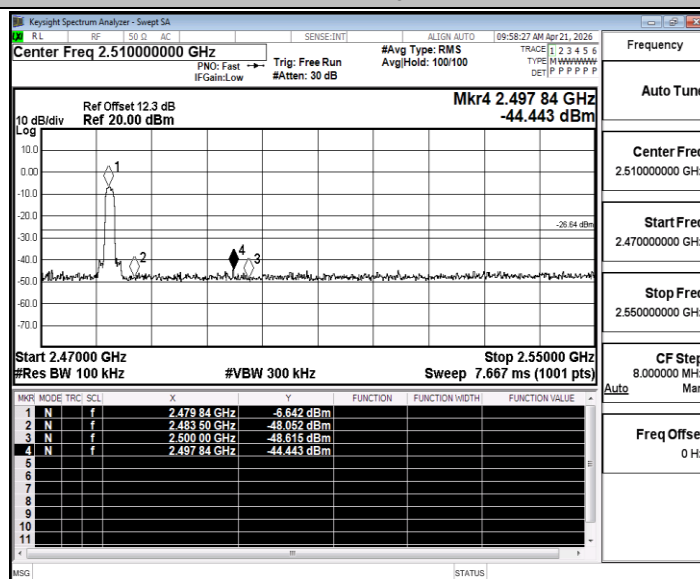


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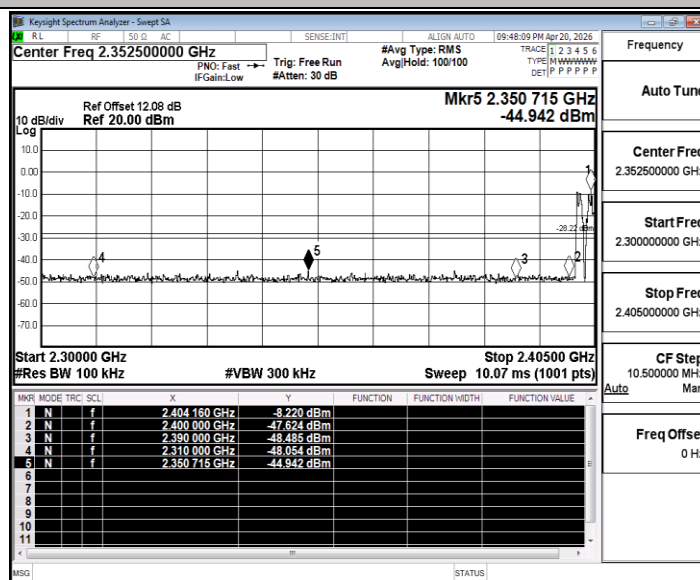
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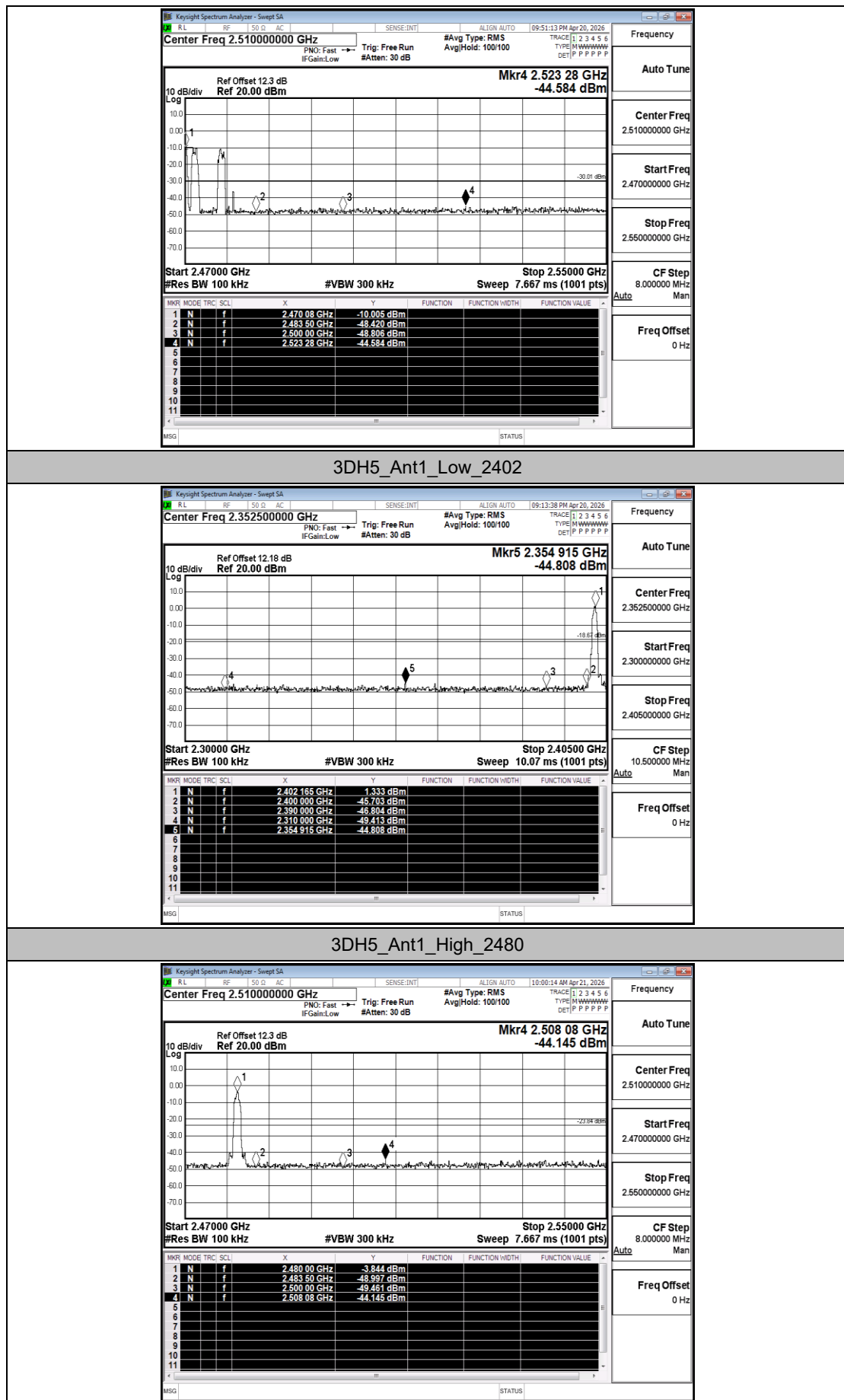
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



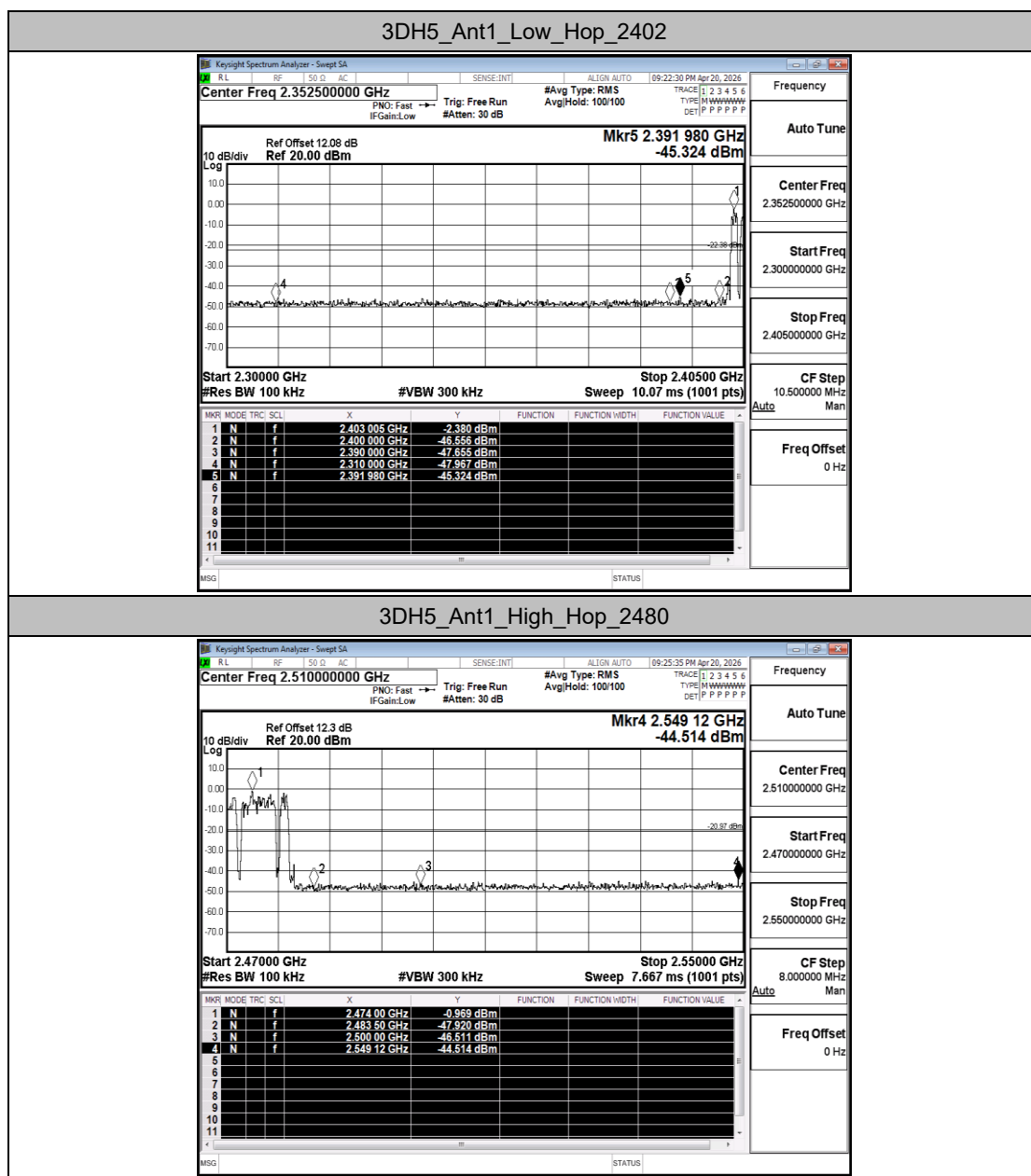
2DH5_Ant1_High_Hop_2480



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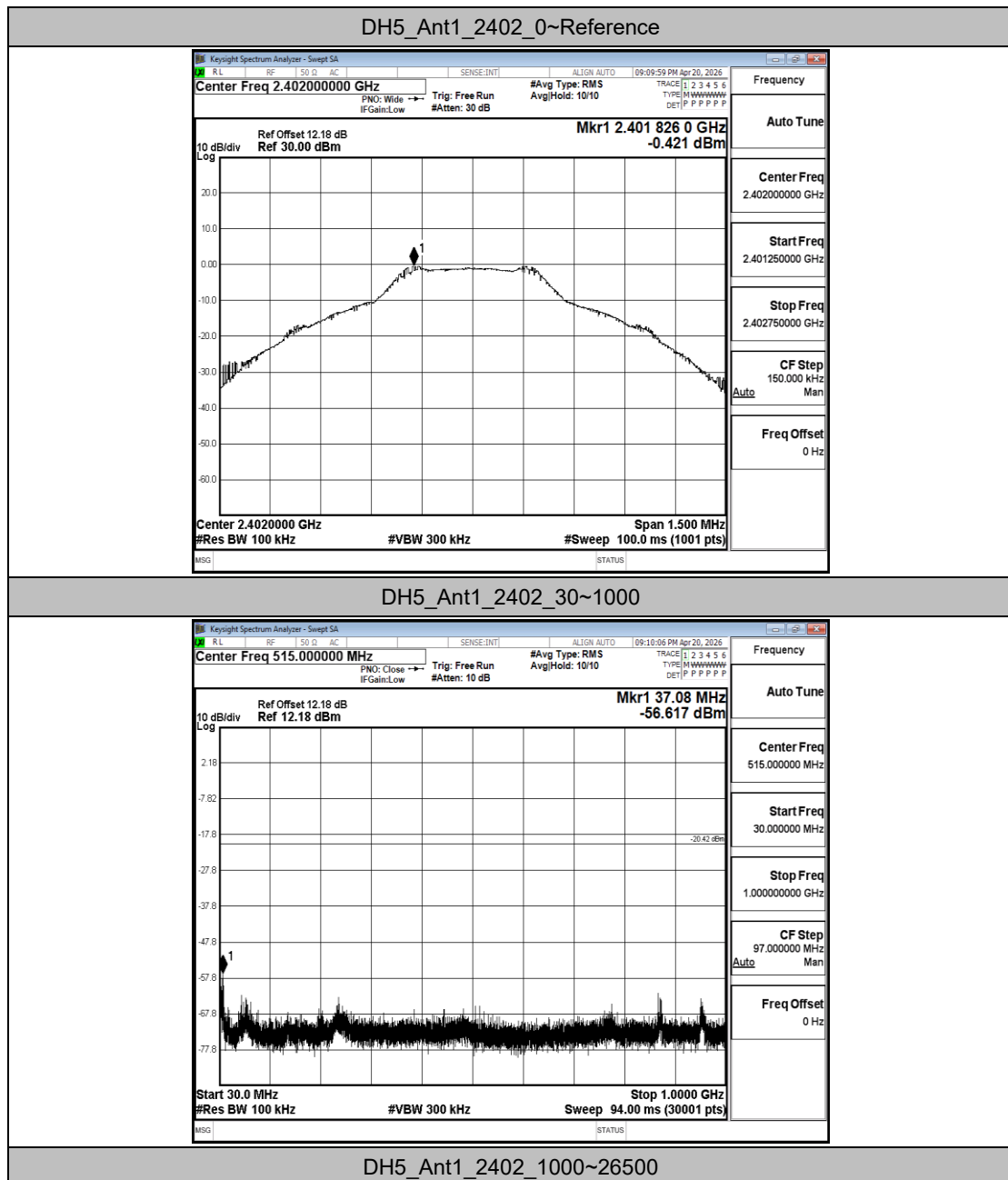


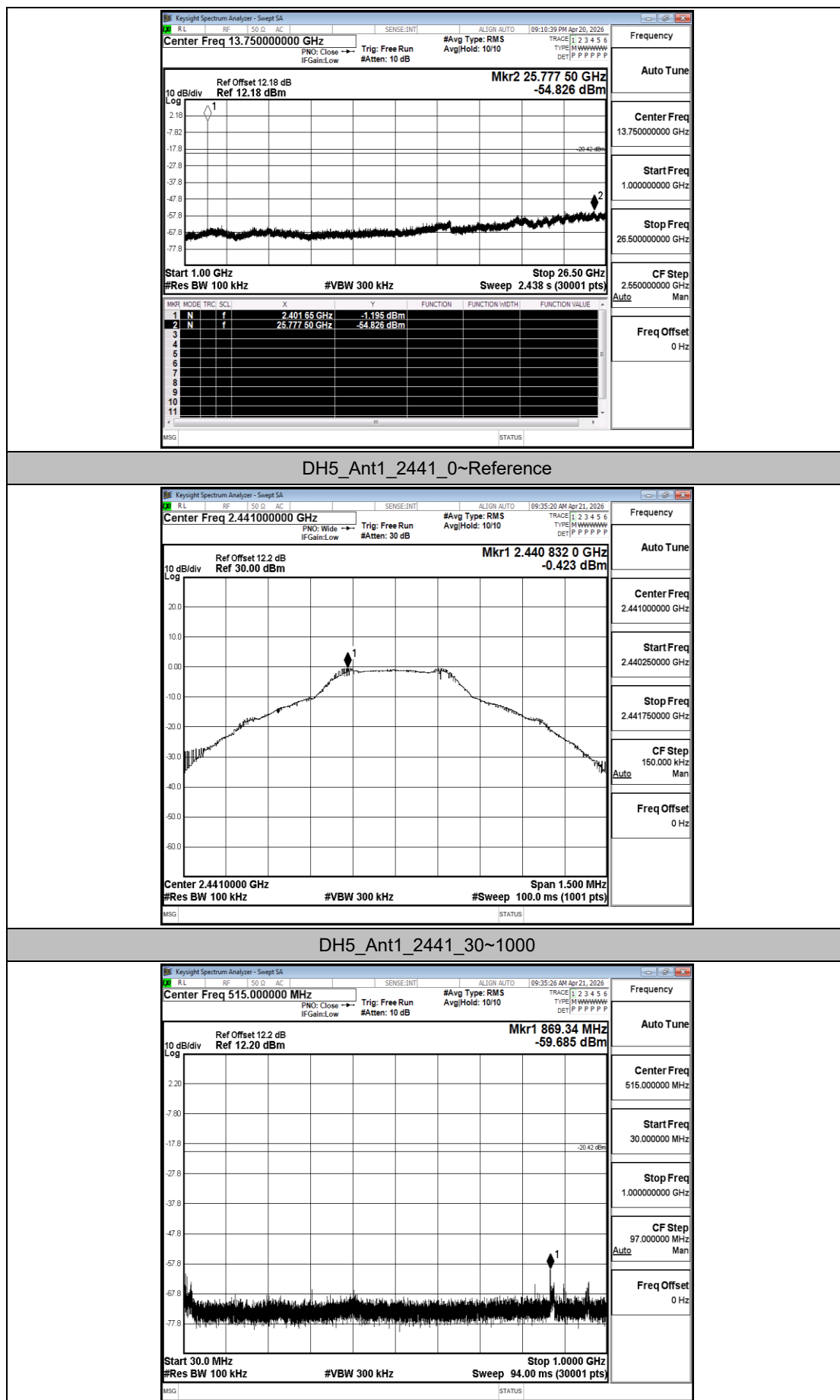
A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-56.62	≤-20.42	PASS
			1000~26500	-0.42	-54.83	≤-20.42	PASS
		2441	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-59.69	≤-20.42	PASS
			1000~26500	-0.42	-55.39	≤-20.42	PASS
		2480	Reference	-3.66	-3.66	---	PASS
			30~1000	-3.66	-59.09	≤-23.66	PASS
			1000~26500	-3.66	-54.36	≤-23.66	PASS
2DH5	Ant1	2402	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-56.53	≤-18.77	PASS
			1000~26500	1.23	-54.81	≤-18.77	PASS
		2441	Reference	-0.52	-0.52	---	PASS
			30~1000	-0.52	-58.42	≤-20.52	PASS
			1000~26500	-0.52	-55.22	≤-20.52	PASS
		2480	Reference	-3.81	-3.81	---	PASS
			30~1000	-3.81	-60.61	≤-23.81	PASS
			1000~26500	-3.81	-54.31	≤-23.81	PASS
3DH5	Ant1	2402	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-57.4	≤-18.58	PASS
			1000~26500	1.42	-54.87	≤-18.58	PASS
		2441	Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-58.11	≤-20.31	PASS
			1000~26500	-0.31	-55.49	≤-20.31	PASS
		2480	Reference	-3.61	-3.61	---	PASS
			30~1000	-3.61	-62.69	≤-23.61	PASS
			1000~26500	-3.61	-45.53	≤-23.61	PASS

Test Graphs





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