

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Carplay

Test Model: Q1S

Environmental Conditions

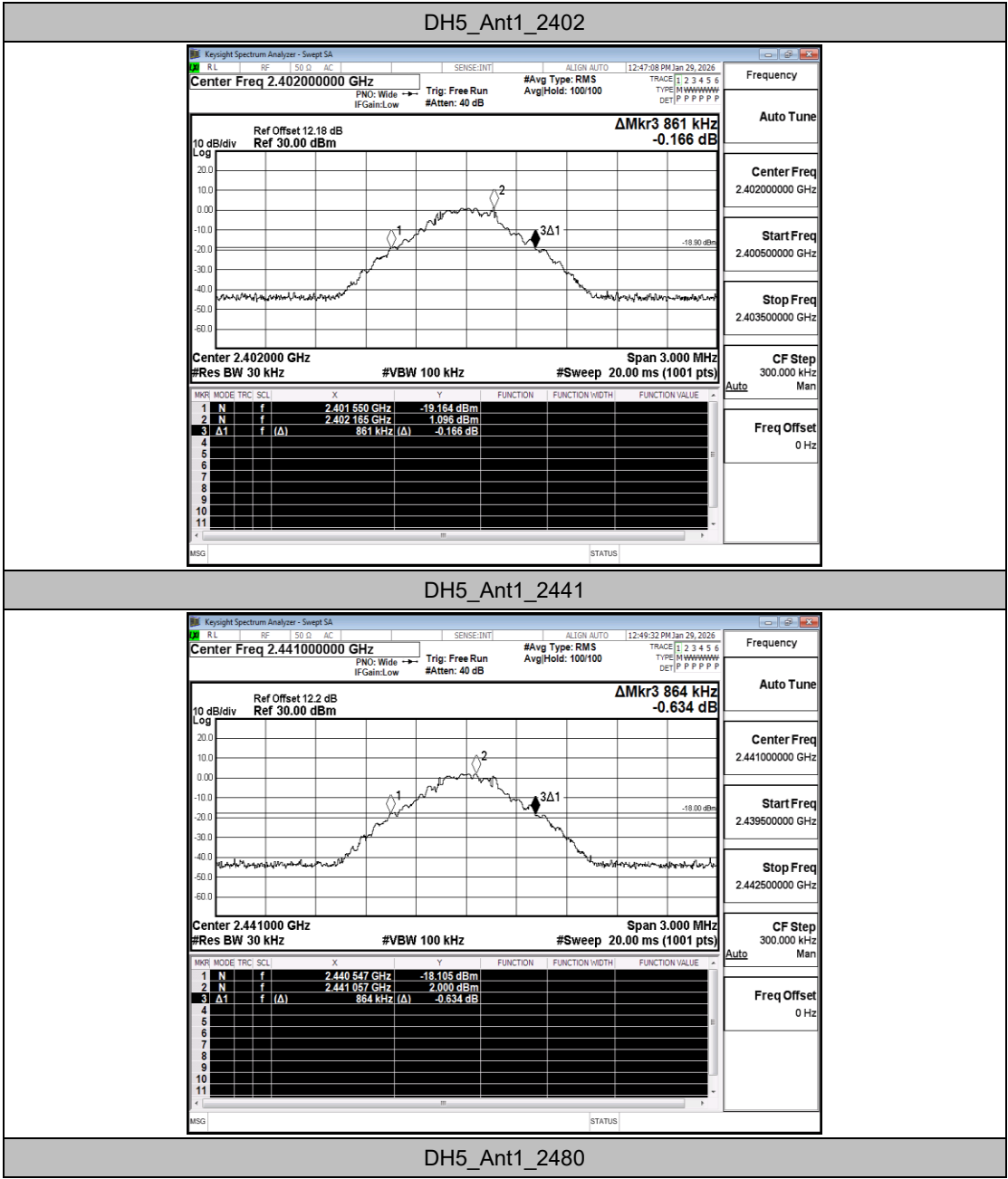
Temperature:	23.7°C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

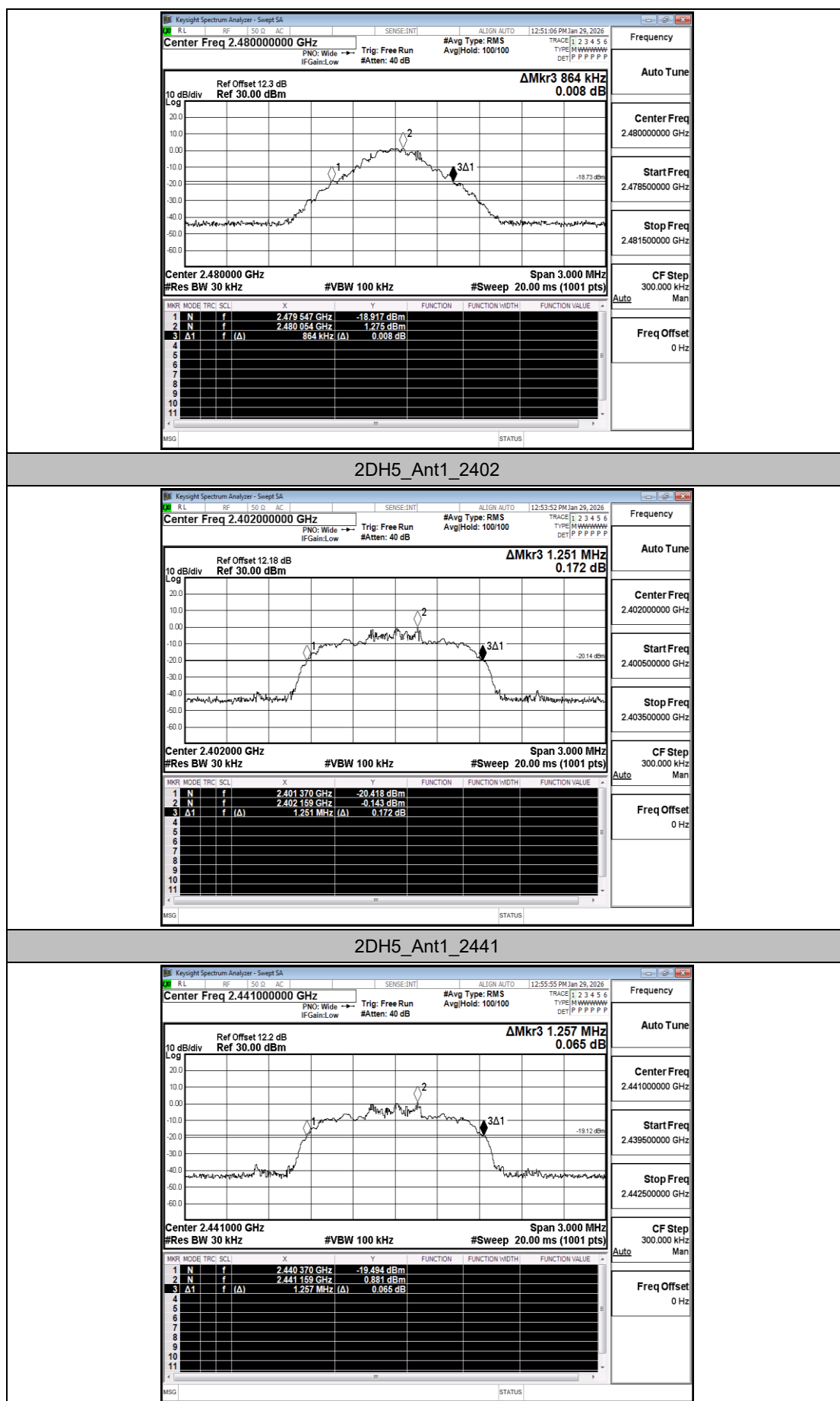
A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.861	2401.550	2402.411	---	---
		2441	0.864	2440.547	2441.411	---	---
		2480	0.864	2479.547	2480.411	---	---
2DH5	Ant1	2402	1.251	2401.370	2402.621	---	---
		2441	1.257	2440.370	2441.627	---	---
		2480	1.254	2479.370	2480.624	---	---
3DH5	Ant1	2402	1.254	2401.364	2402.618	---	---
		2441	1.254	2440.361	2441.615	---	---
		2480	1.254	2479.361	2480.615	---	---

Test Graphs



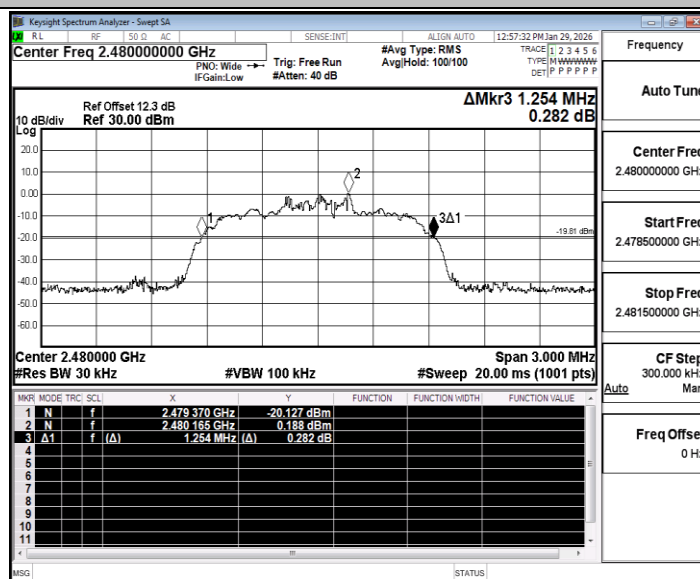


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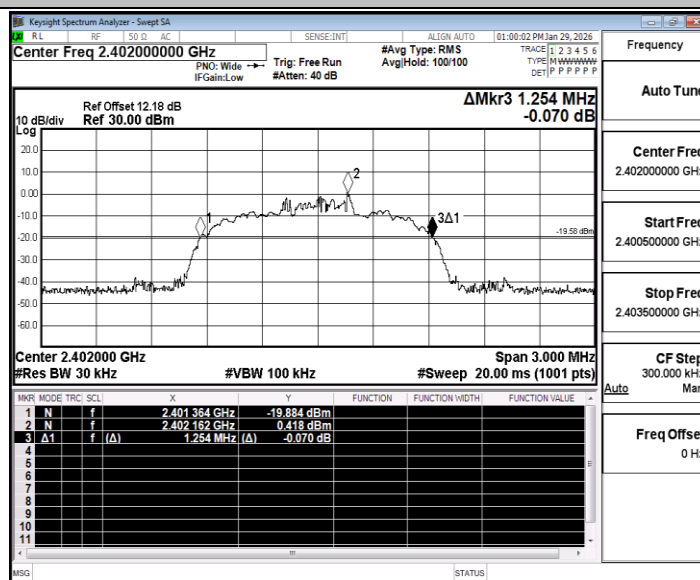
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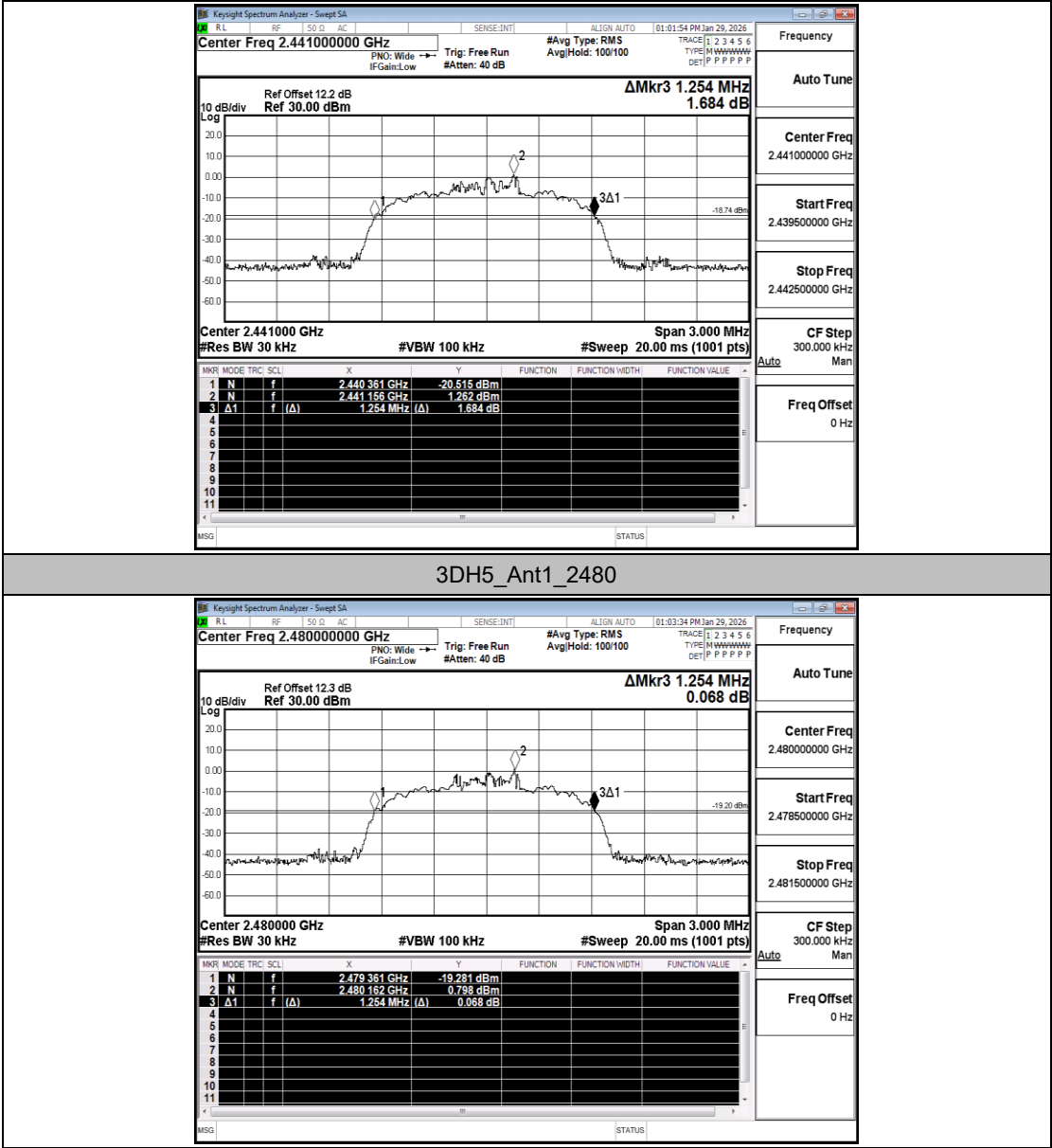
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

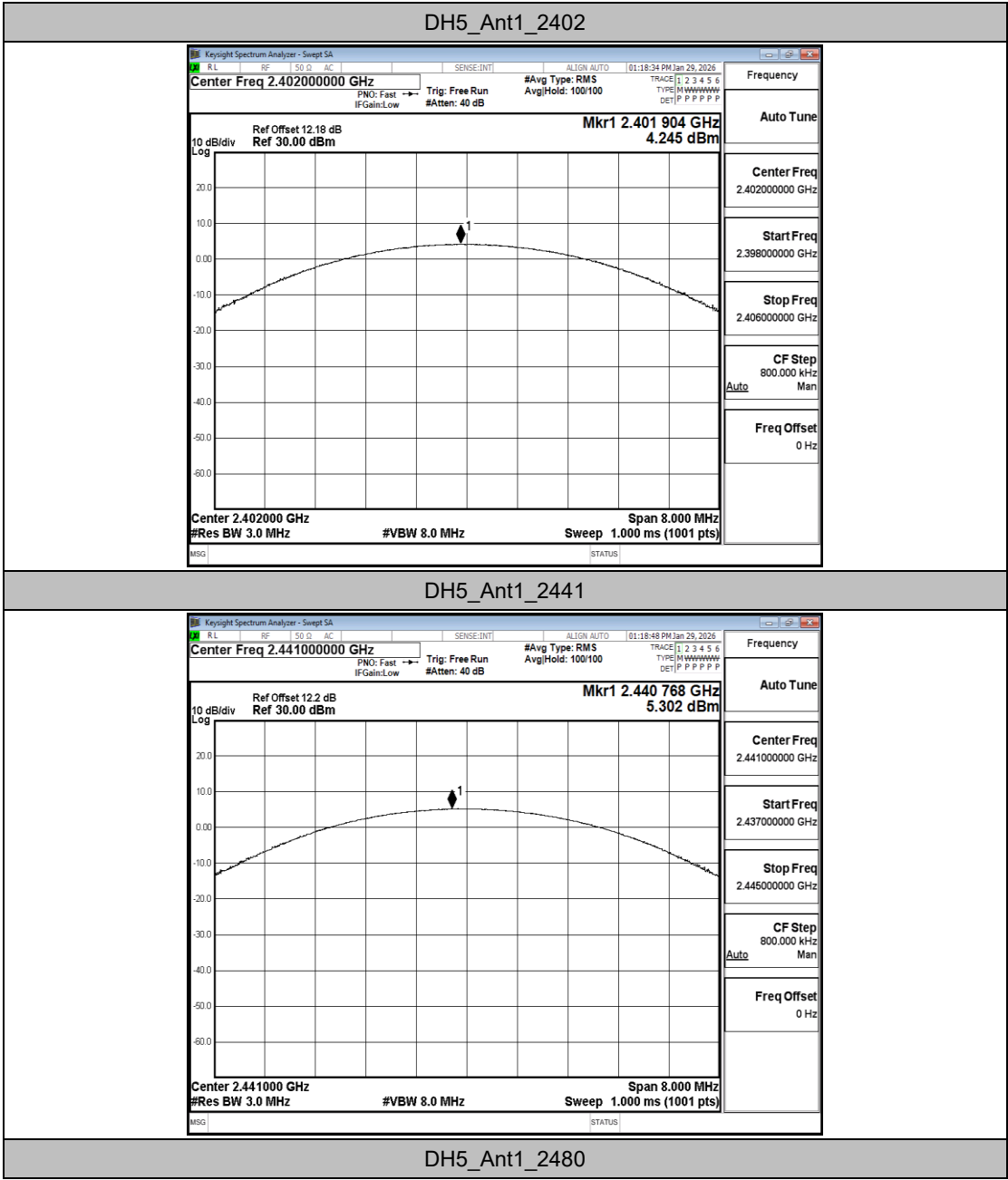


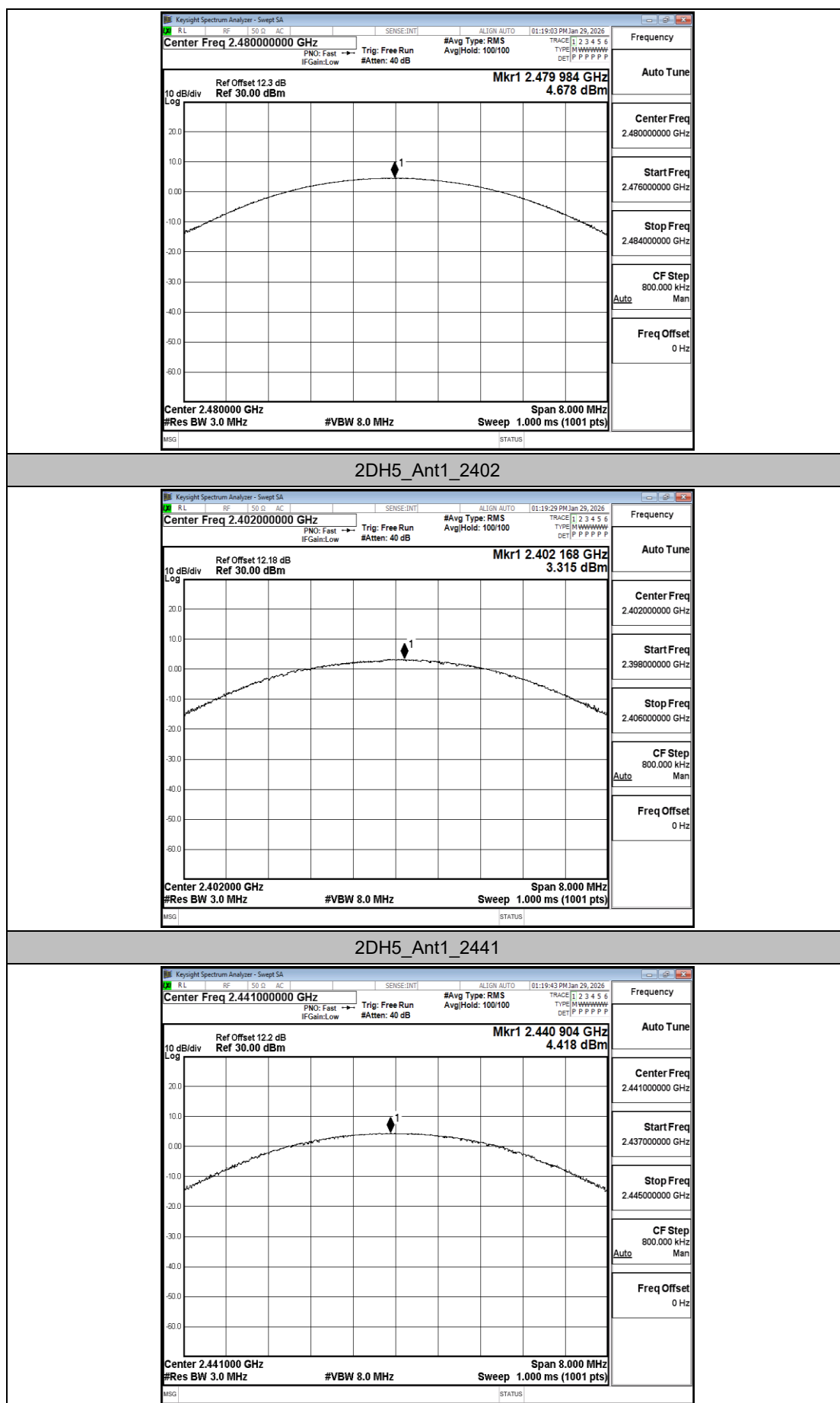
A.2 Maximum Peak conducted output power

Test Result Peak

Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	4.25	21	PASS
		2441	5.30	21	PASS
		2480	4.68	21	PASS
2DH5	Ant1	2402	3.32	21	PASS
		2441	4.42	21	PASS
		2480	3.69	21	PASS
3DH5	Ant1	2402	3.43	21	PASS
		2441	4.37	21	PASS
		2480	3.70	21	PASS

Test Graphs



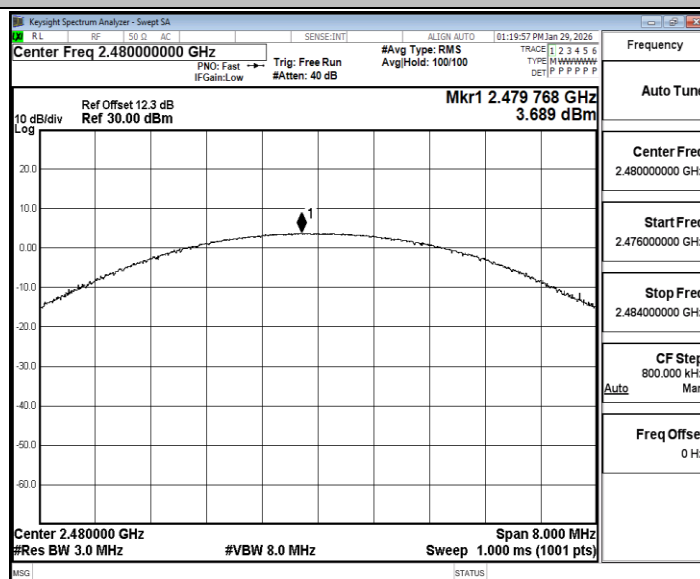


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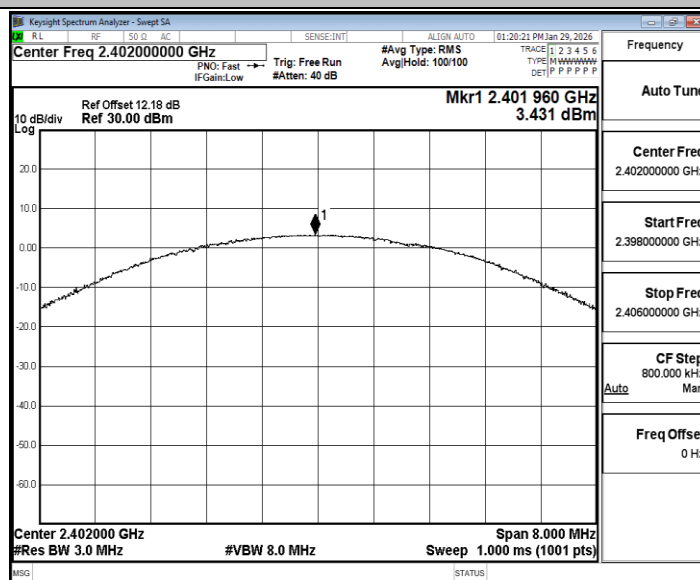
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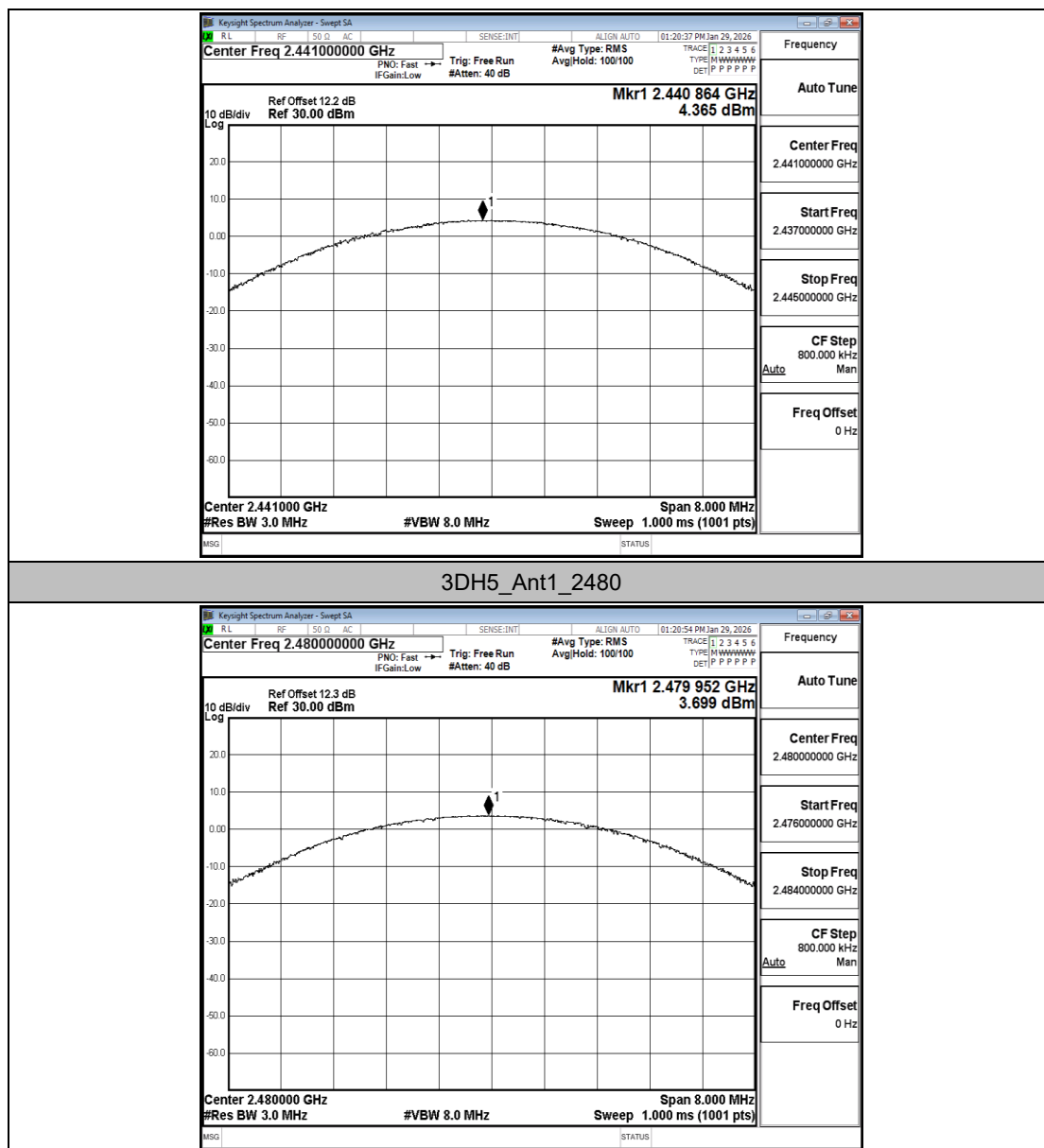
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

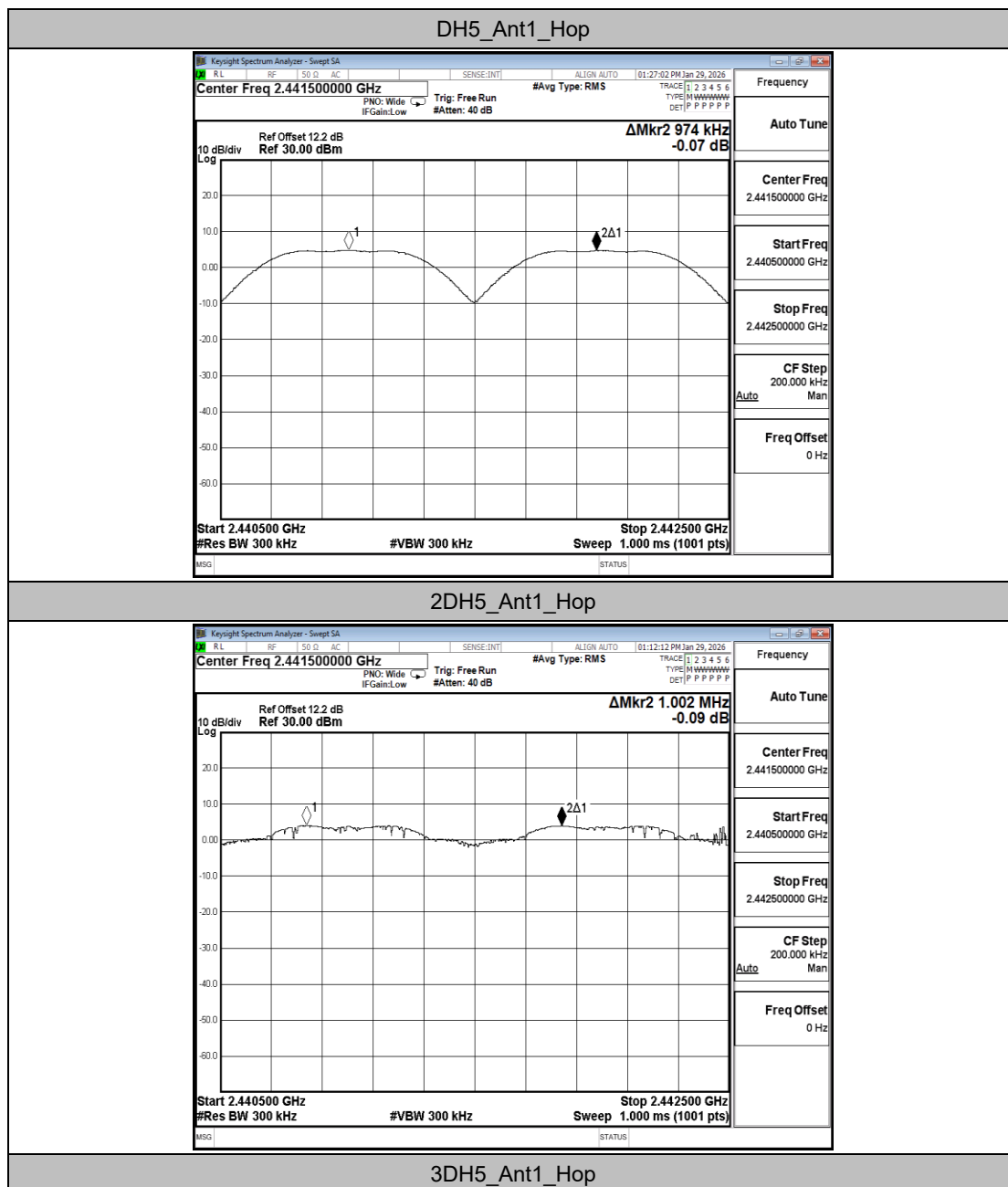


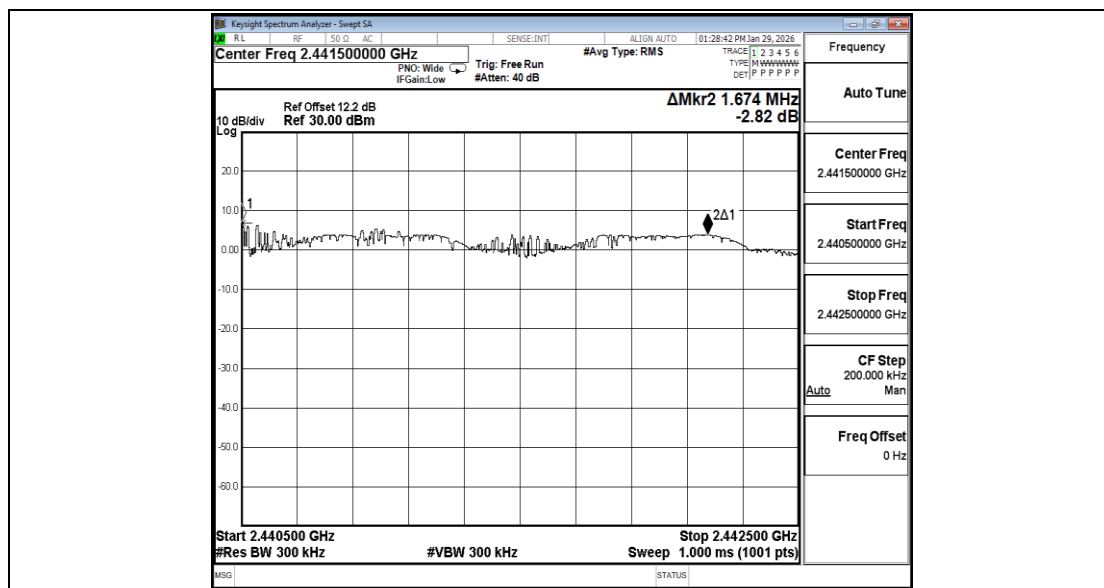
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.974	≥ 0.864	PASS
2DH5	Ant1	Hop	1.002	≥ 0.838	PASS
3DH5	Ant1	Hop	1.674	≥ 1.254	PASS

Test Graphs



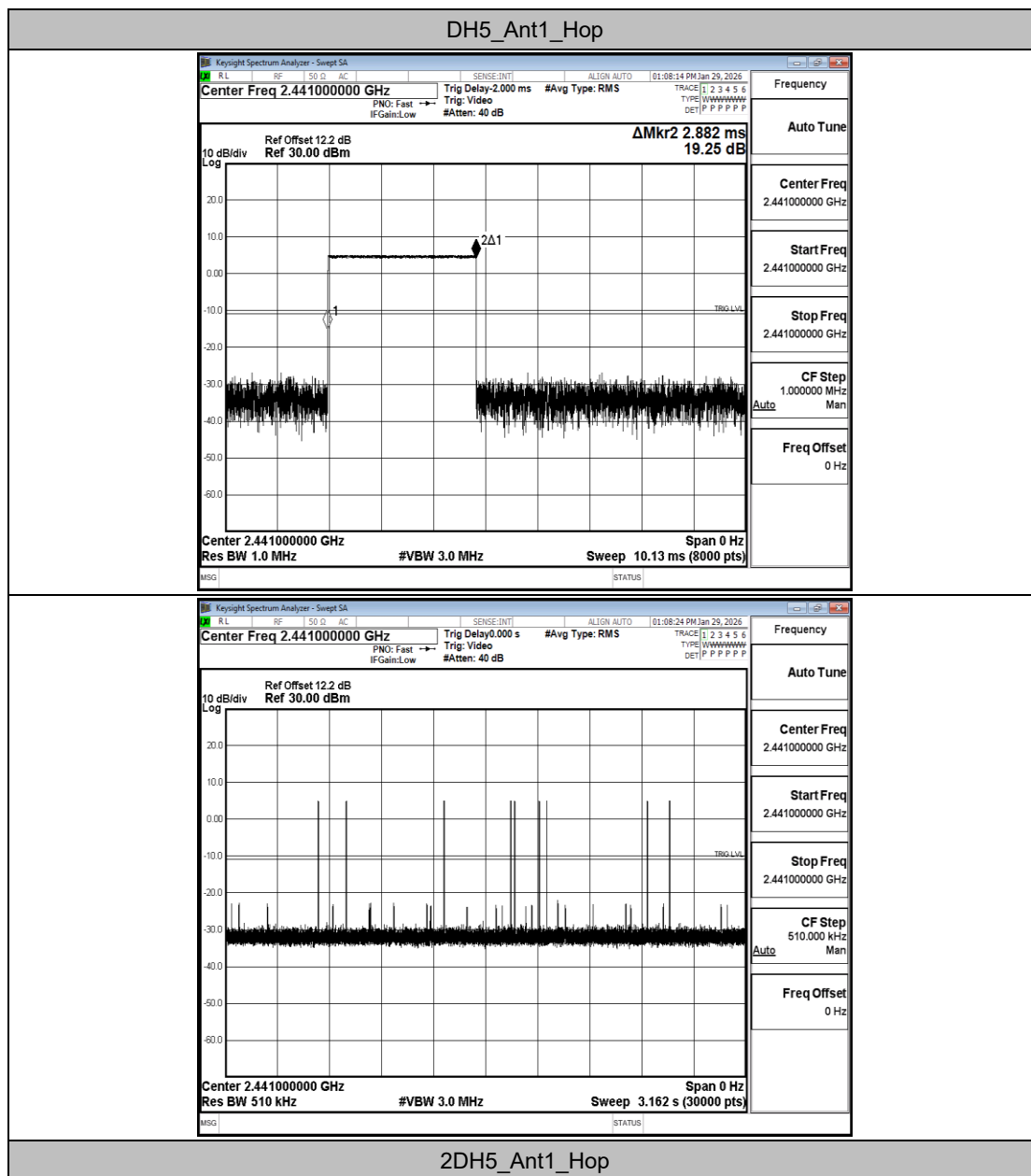


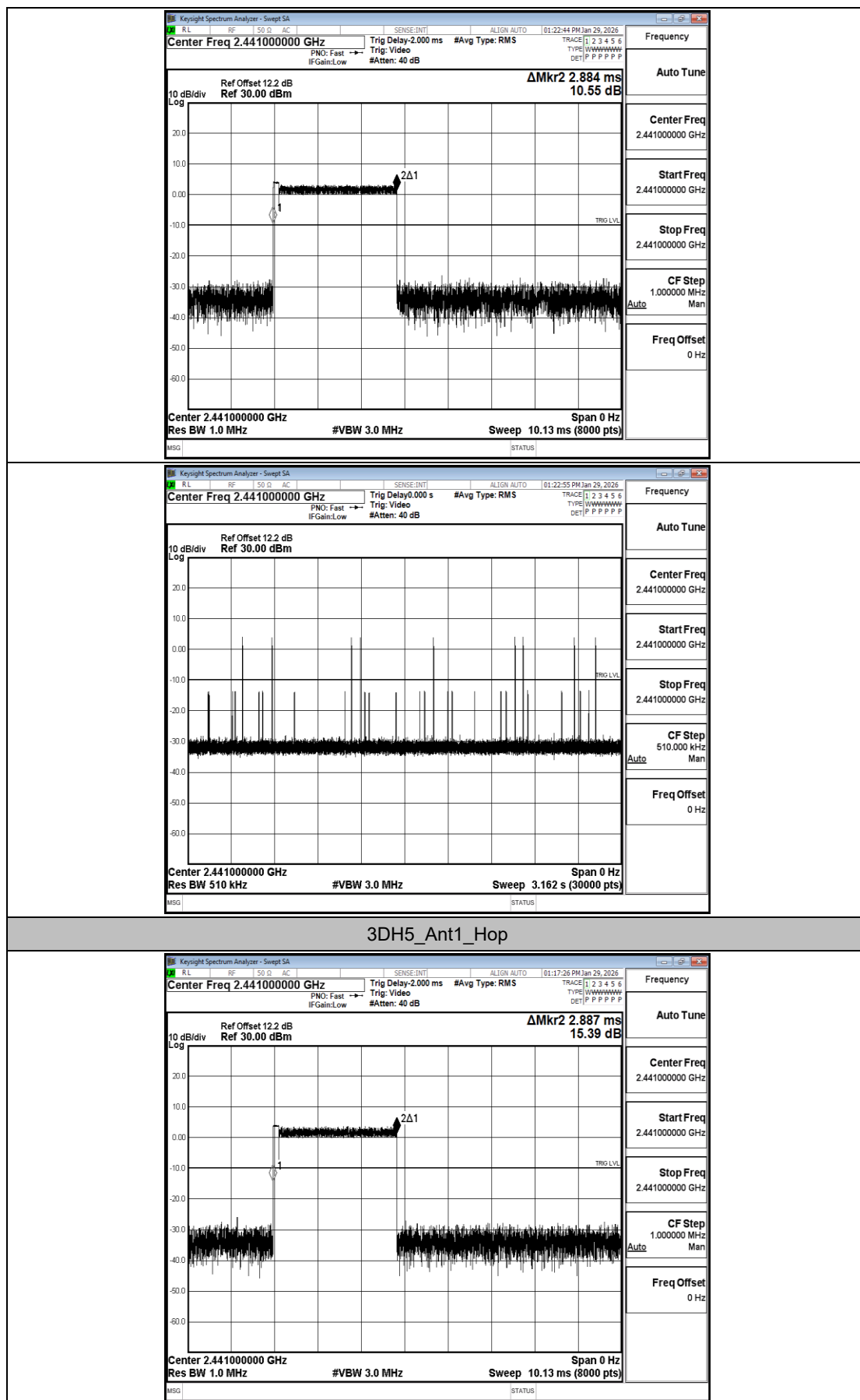
A.4 Time of occupancy

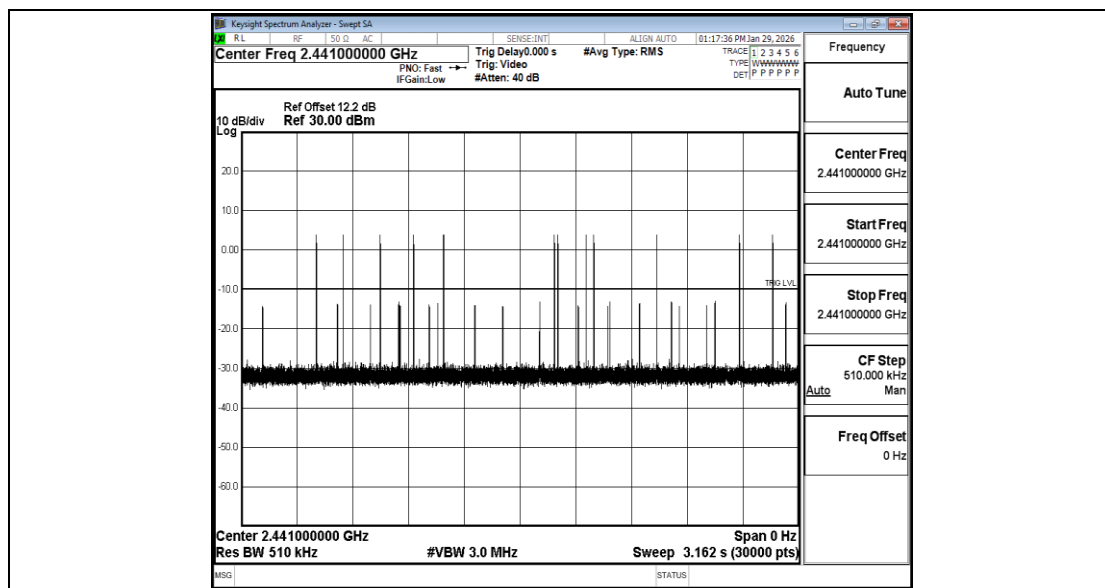
Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.882	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.884	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.887	130	0.375	≤0.4	PASS

Test Graphs





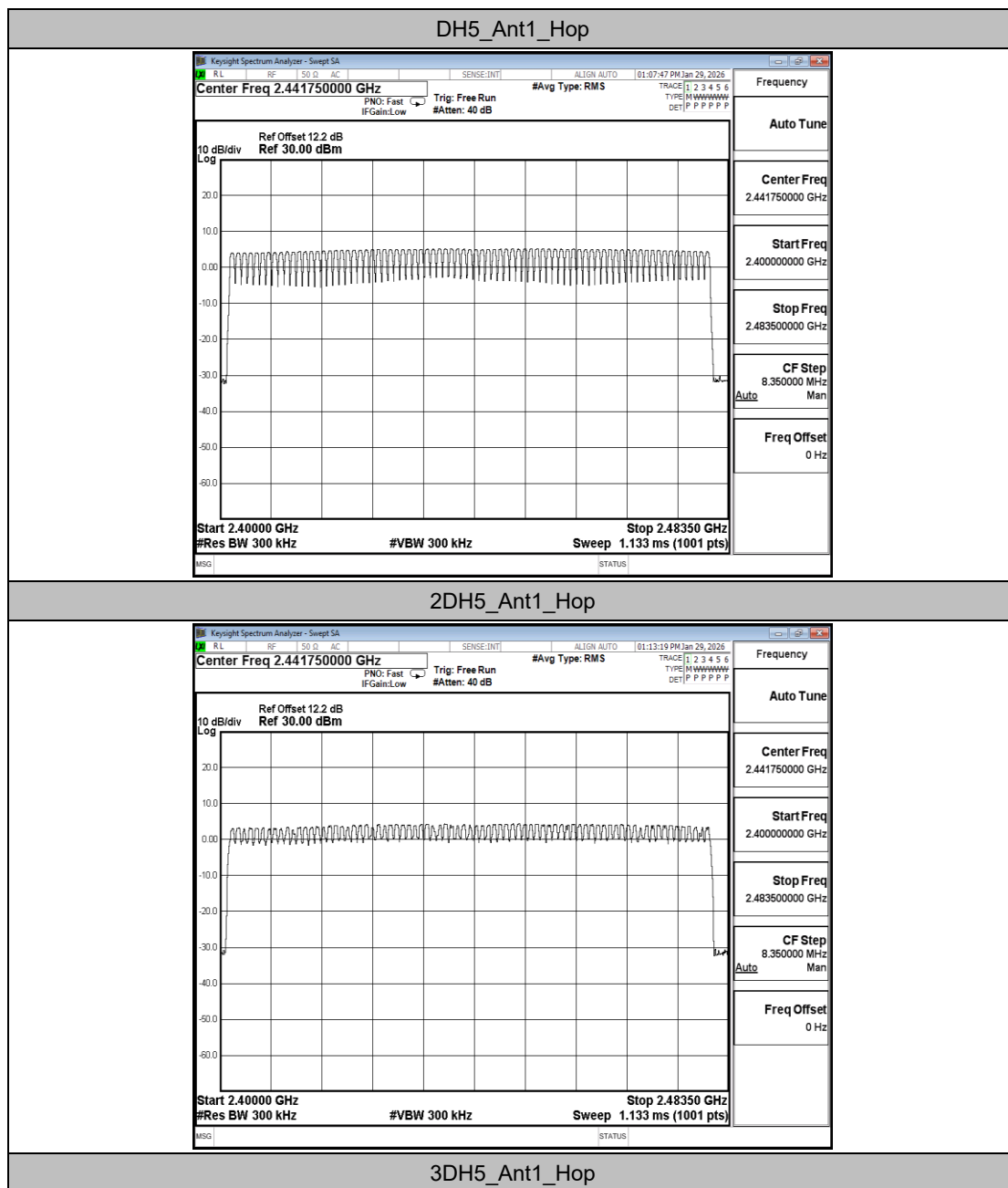


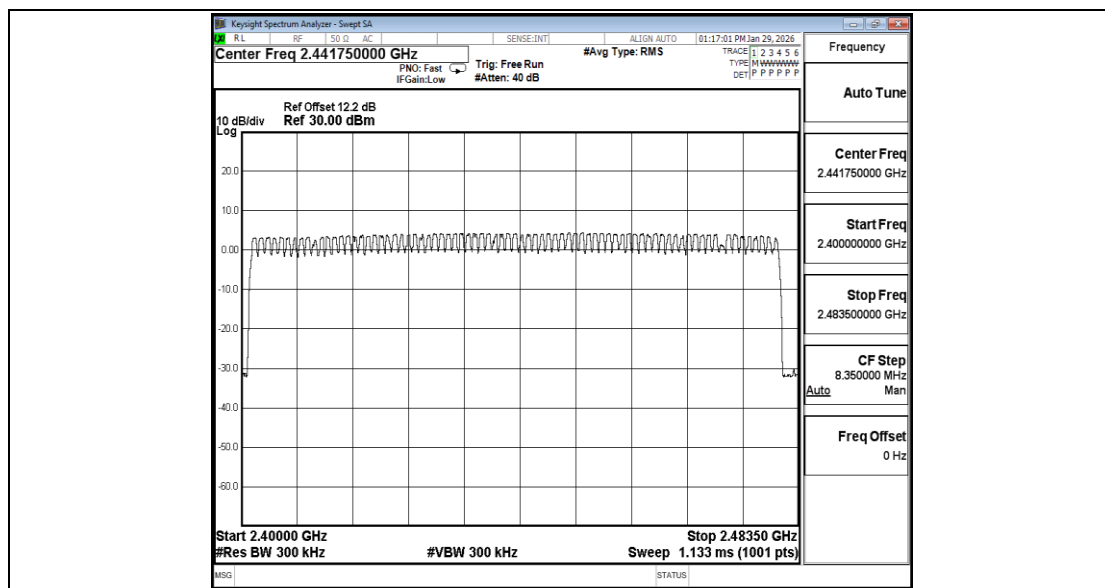
A.5 Number of hopping channels

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



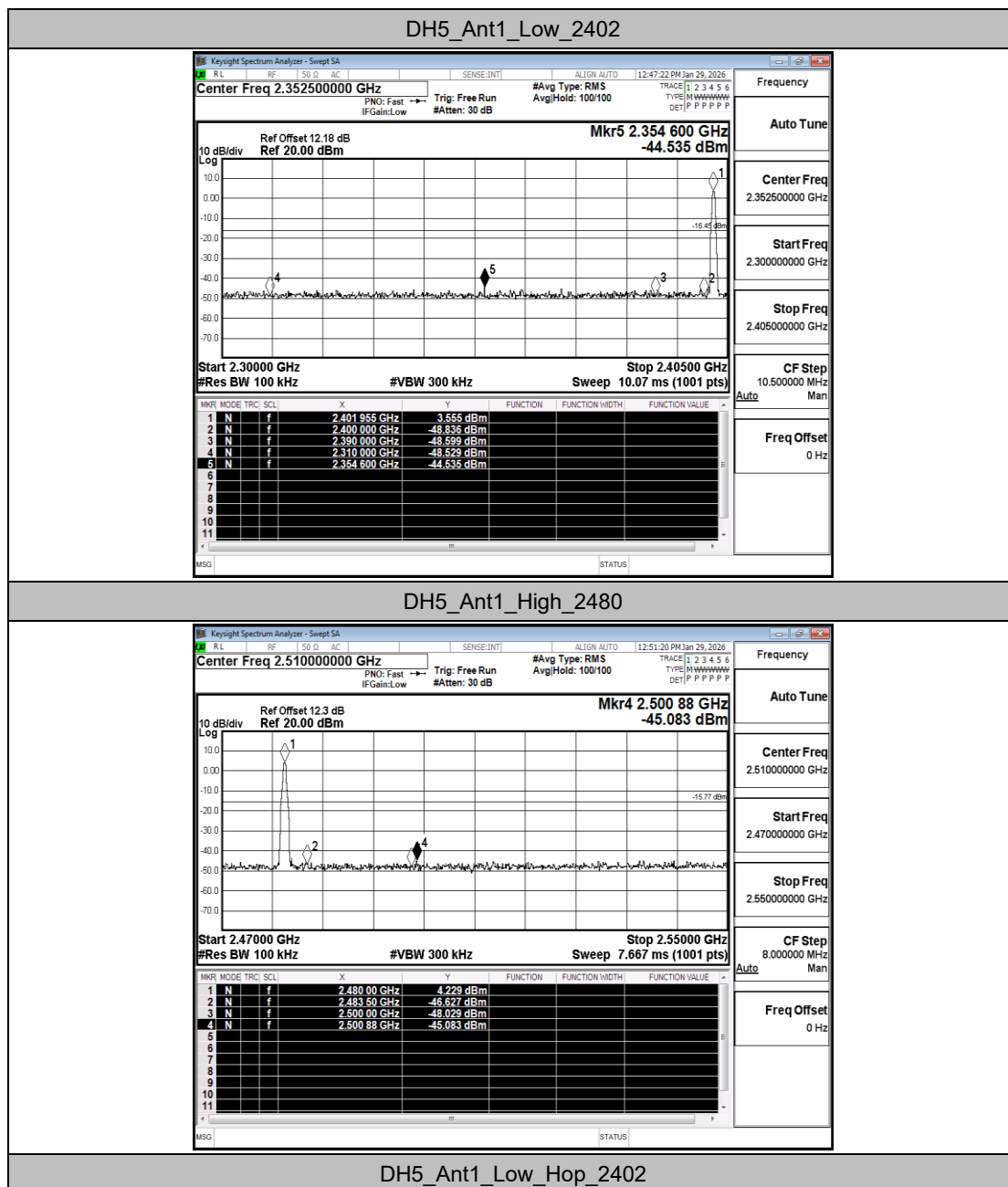


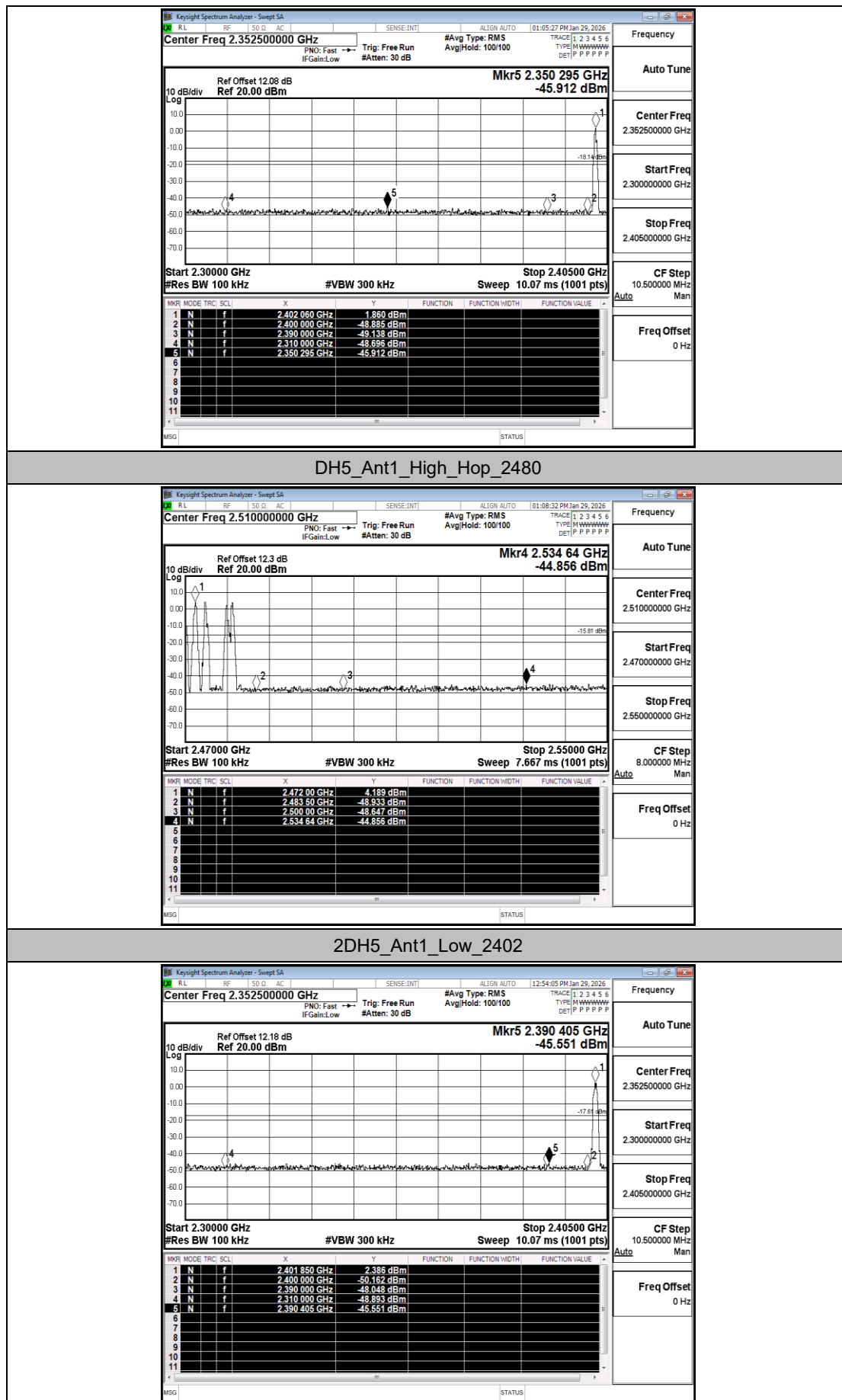
A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.56	-44.54	≤-16.45	PASS
		High	2480	4.23	-45.08	≤-15.77	PASS
		Low	Hop_2402	1.86	-45.91	≤-18.14	PASS
		High	Hop_2480	4.19	-44.86	≤-15.81	PASS
2DH5	Ant1	Low	2402	2.39	-45.55	≤-17.61	PASS
		High	2480	2.28	-44.81	≤-17.72	PASS
		Low	Hop_2402	-2.37	-44.93	≤-22.37	PASS
		High	Hop_2480	3.50	-44.49	≤-16.5	PASS
3DH5	Ant1	Low	2402	1.24	-45	≤-18.76	PASS
		High	2480	2.84	-44.41	≤-17.16	PASS
		Low	Hop_2402	-3.72	-45.8	≤-23.72	PASS
		High	Hop_2480	-1.24	-44.62	≤-21.24	PASS

Test Graphs



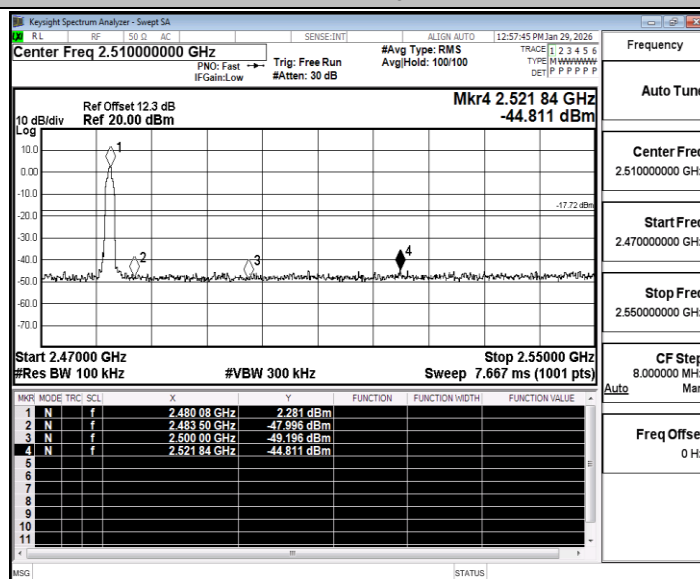


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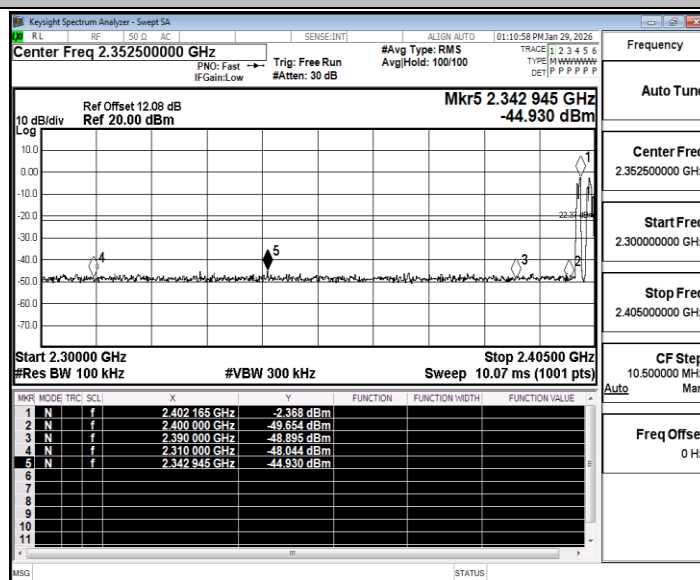
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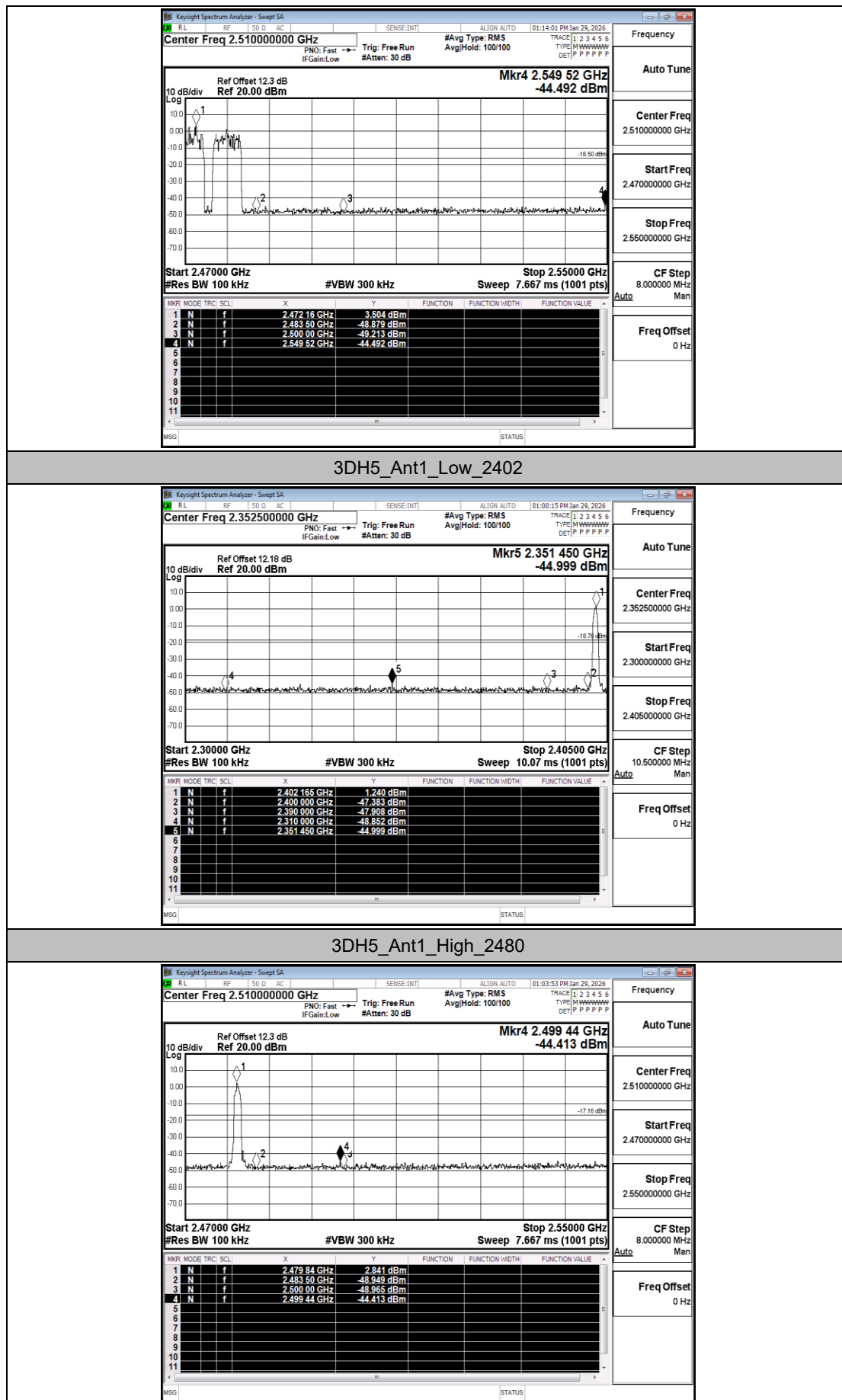
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



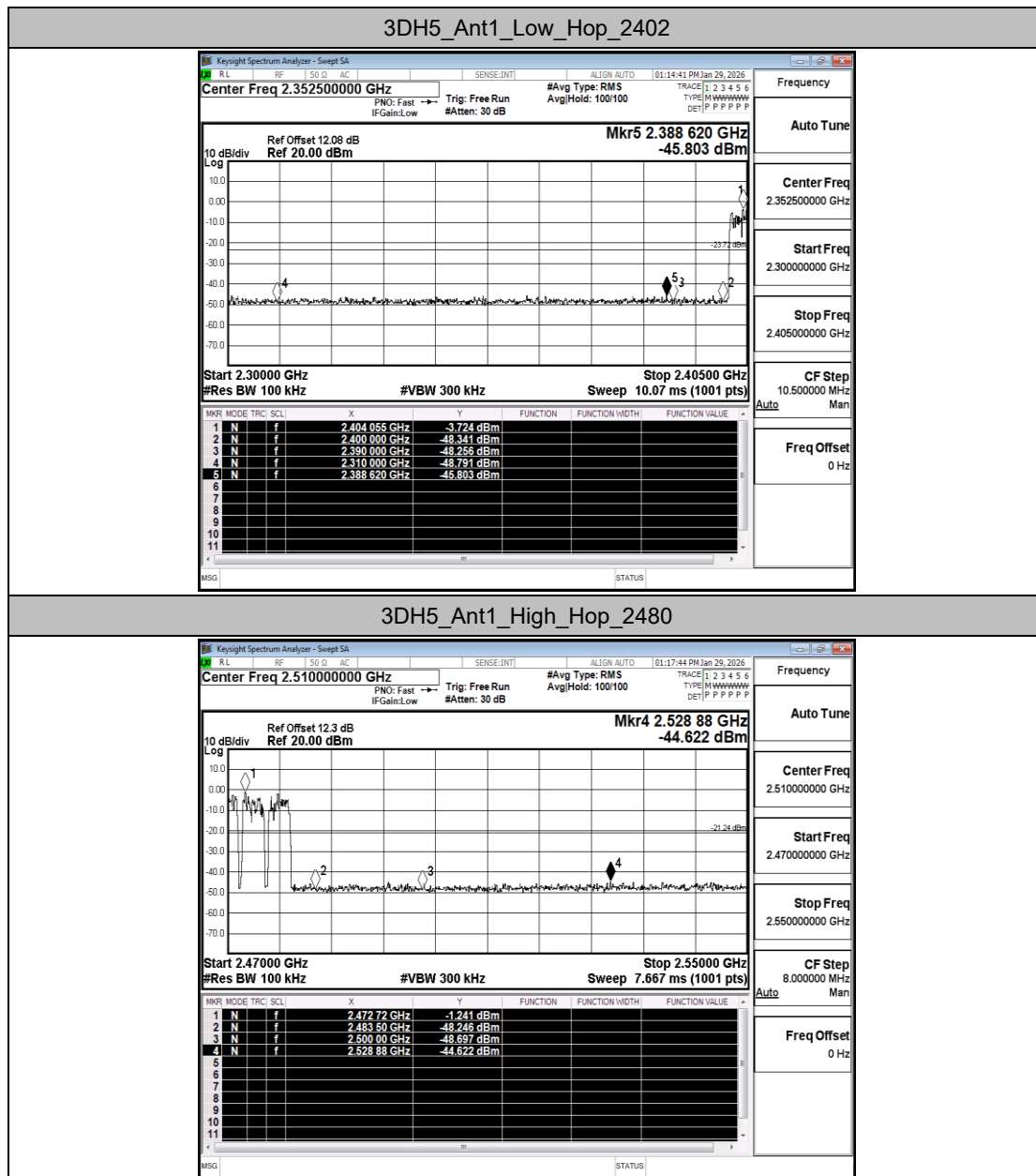
2DH5_Ant1_High_Hop_2480



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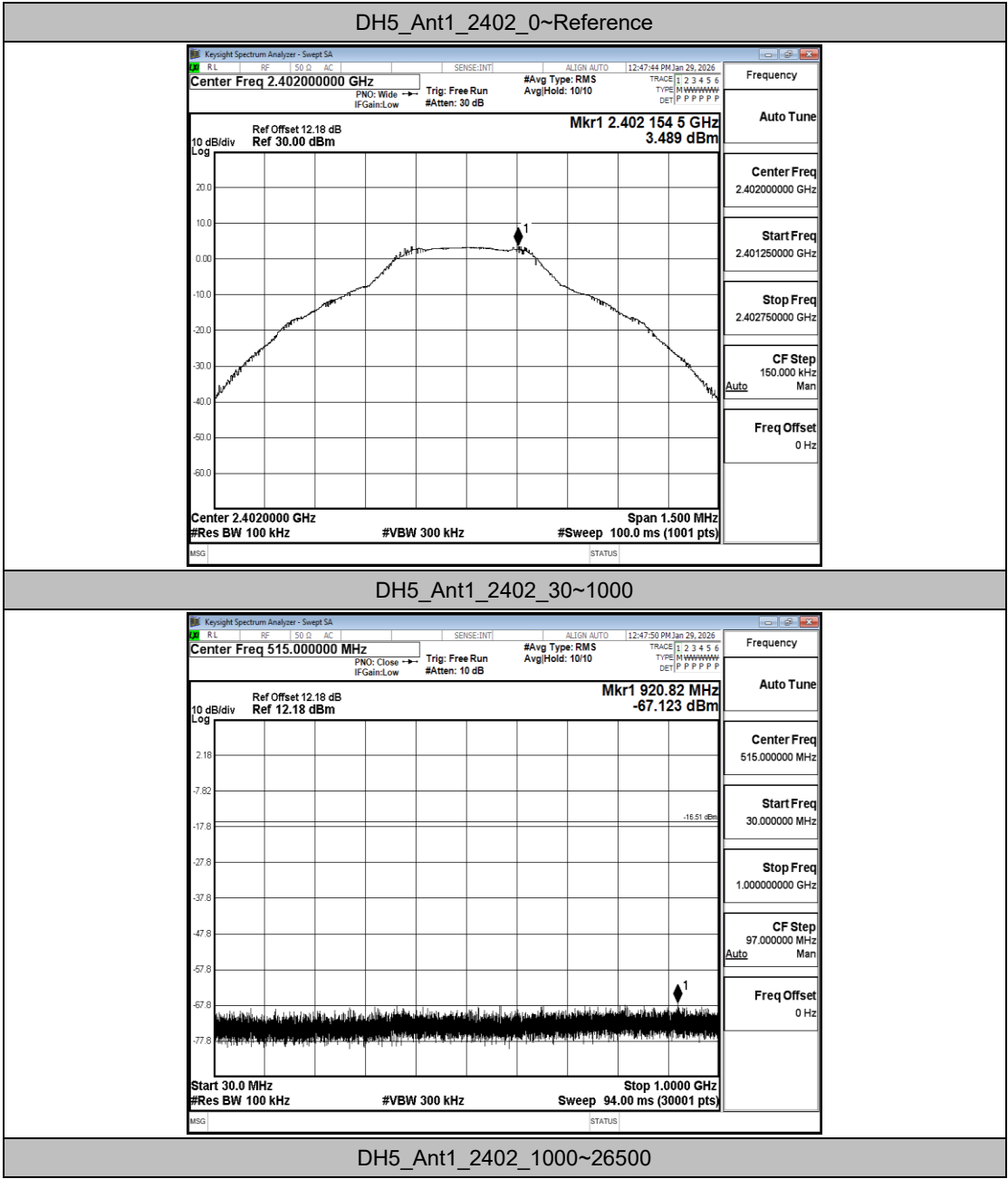


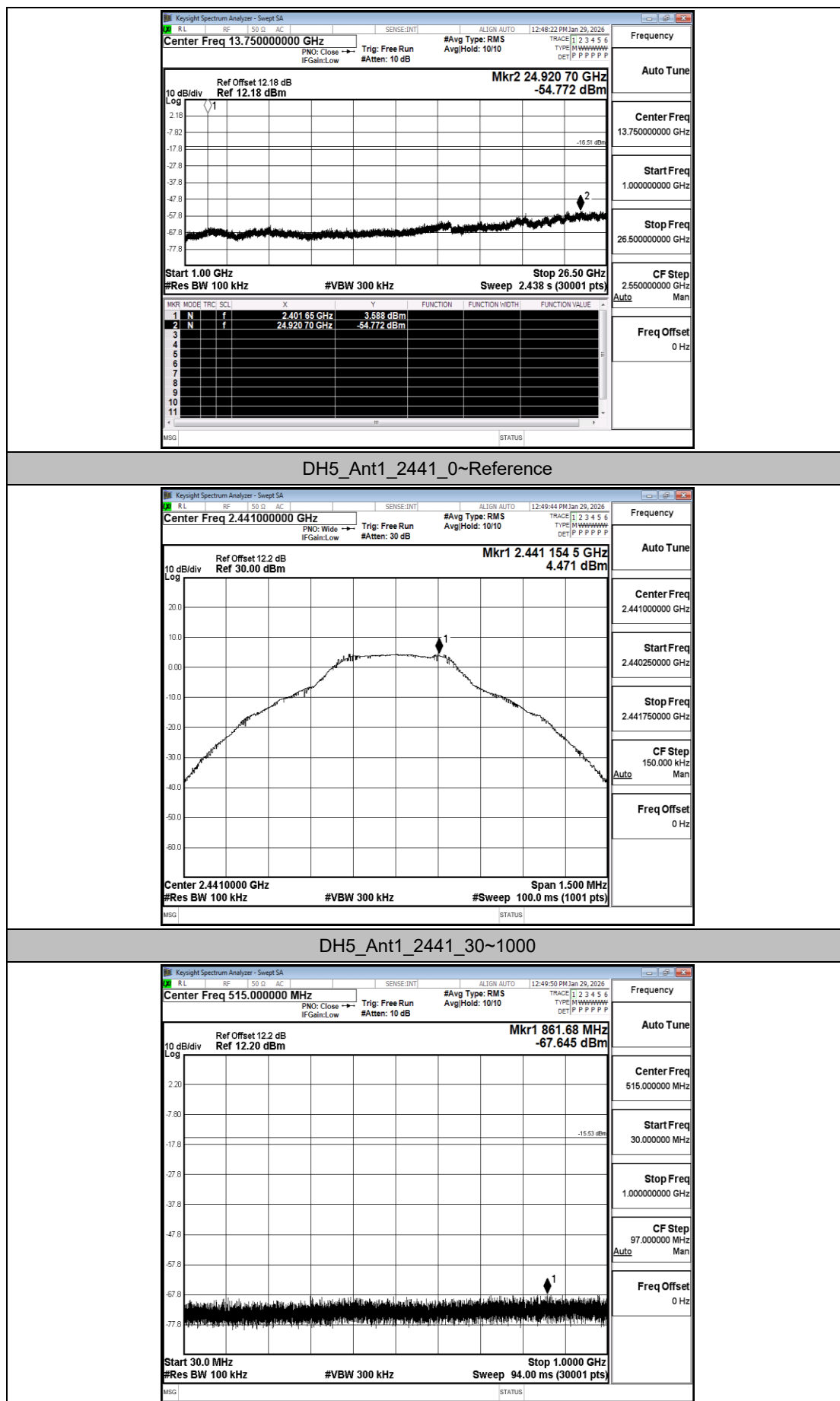
A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-67.12	≤-16.51	PASS
			1000~26500	3.49	-54.77	≤-16.51	PASS
		2441	Reference	4.47	4.47	---	PASS
			30~1000	4.47	-67.65	≤-15.53	PASS
			1000~26500	4.47	-55.06	≤-15.53	PASS
		2480	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-67.03	≤-16.19	PASS
			1000~26500	3.81	-54.86	≤-16.19	PASS
2DH5	Ant1	2402	Reference	2.80	2.80	---	PASS
			30~1000	2.80	-67.41	≤-17.2	PASS
			1000~26500	2.80	-55.14	≤-17.2	PASS
		2441	Reference	3.83	3.83	---	PASS
			30~1000	3.83	-67.06	≤-16.17	PASS
			1000~26500	3.83	-54.41	≤-16.17	PASS
		2480	Reference	3.24	3.24	---	PASS
			30~1000	3.24	-67.19	≤-16.76	PASS
			1000~26500	3.24	-53.96	≤-16.76	PASS
3DH5	Ant1	2402	Reference	2.74	2.74	---	PASS
			30~1000	2.74	-66.9	≤-17.26	PASS
			1000~26500	2.74	-53.65	≤-17.26	PASS
		2441	Reference	3.75	3.75	---	PASS
			30~1000	3.75	-67.71	≤-16.25	PASS
			1000~26500	3.75	-54.05	≤-16.25	PASS
		2480	Reference	3.15	3.15	---	PASS
			30~1000	3.15	-67.35	≤-16.85	PASS
			1000~26500	3.15	-54.25	≤-16.85	PASS

Test Graphs





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