

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Enya Cyber-G Pocket Guitar

Test Model: Cyber-G Pocket

Environmental Conditions

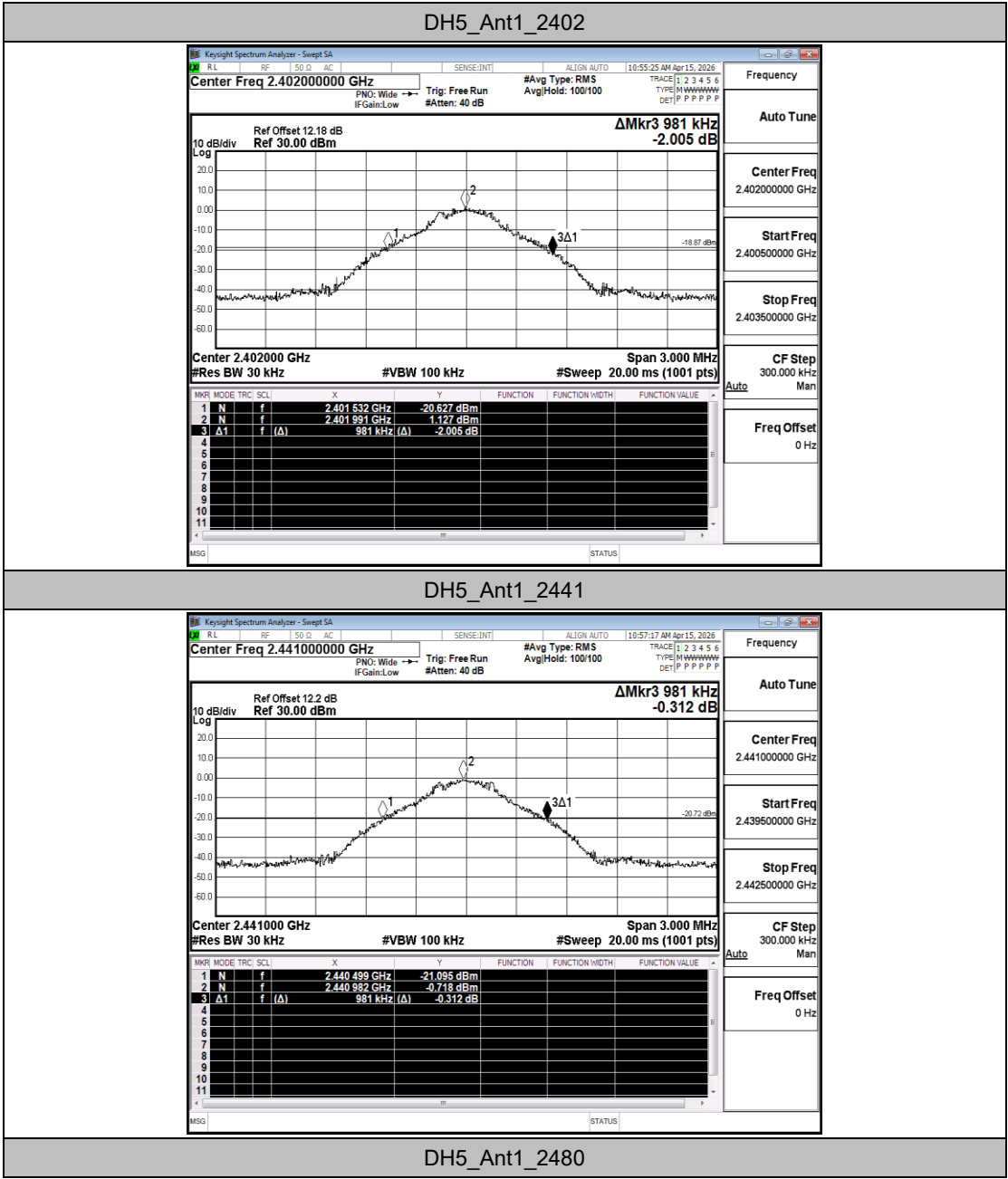
Temperature:	24.6°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	zhao xing hai
Supervised by:	Fengliu Tang

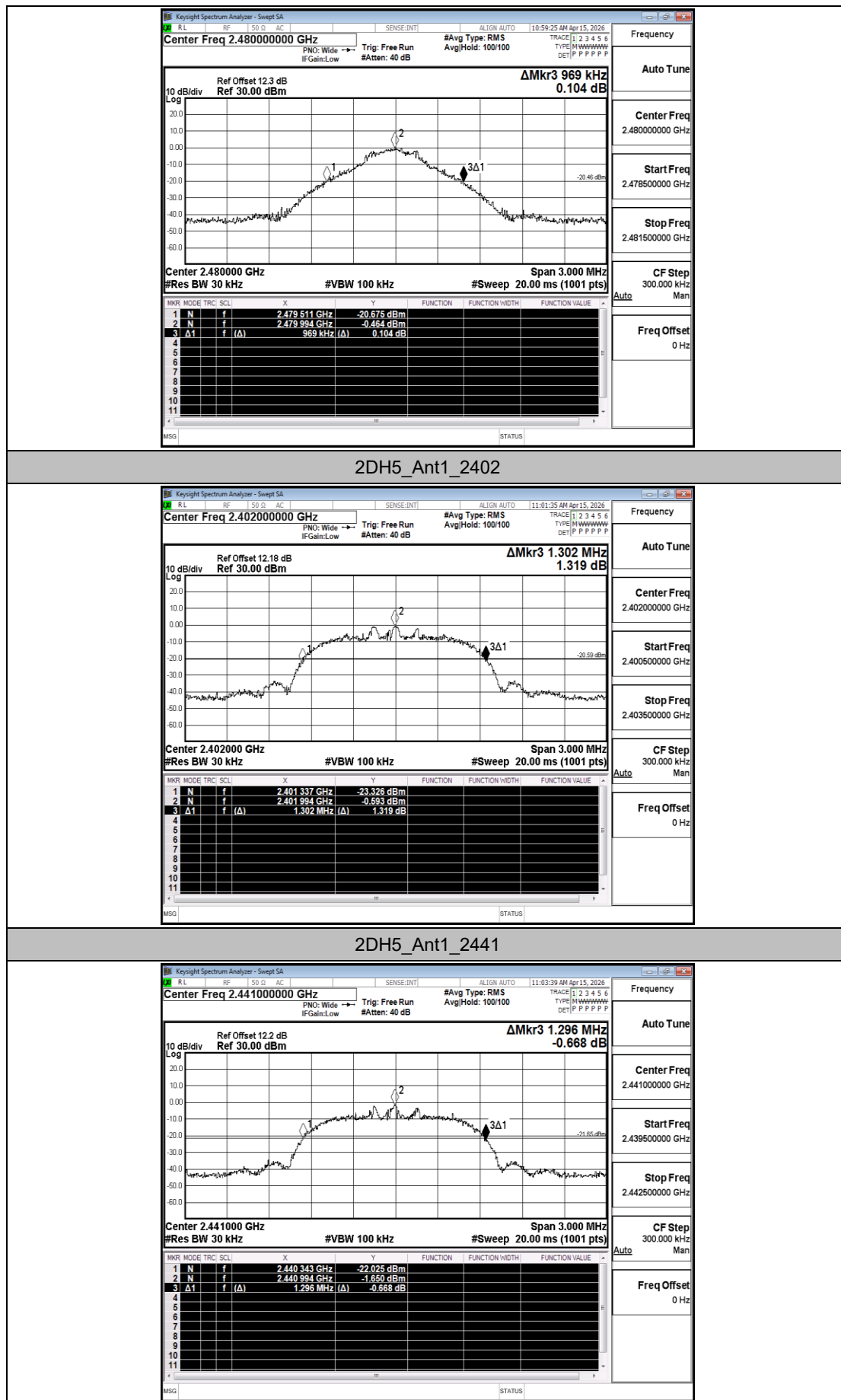
A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.981	2401.532	2402.513	---	---
		2441	0.981	2440.499	2441.480	---	---
		2480	0.969	2479.511	2480.480	---	---
2DH5	Ant1	2402	1.302	2401.337	2402.639	---	---
		2441	1.296	2440.343	2441.639	---	---
		2480	1.311	2479.328	2480.639	---	---
3DH5	Ant1	2402	1.308	2401.334	2402.642	---	---
		2441	1.296	2440.346	2441.642	---	---
		2480	1.311	2479.331	2480.642	---	---

Test Graphs

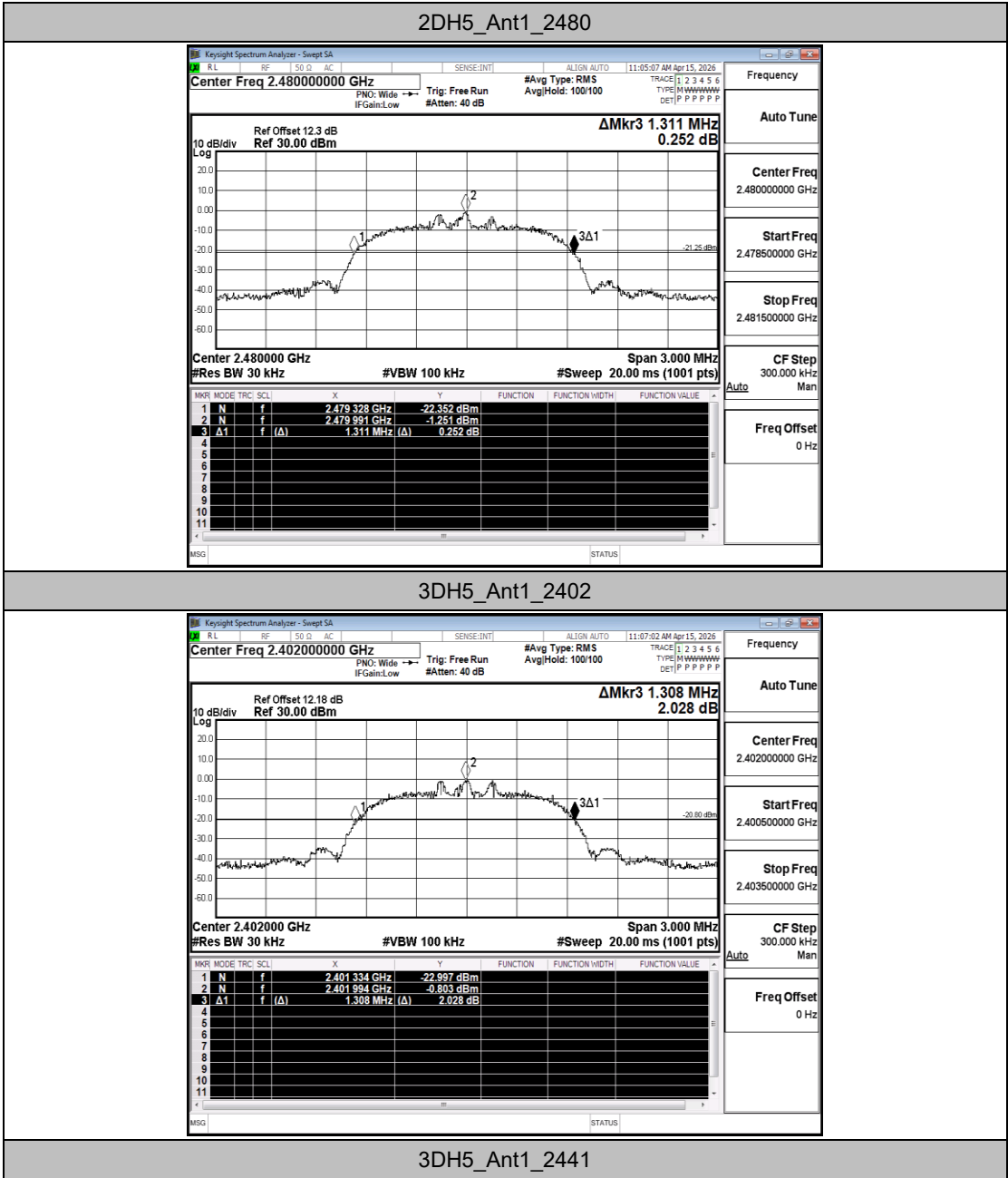


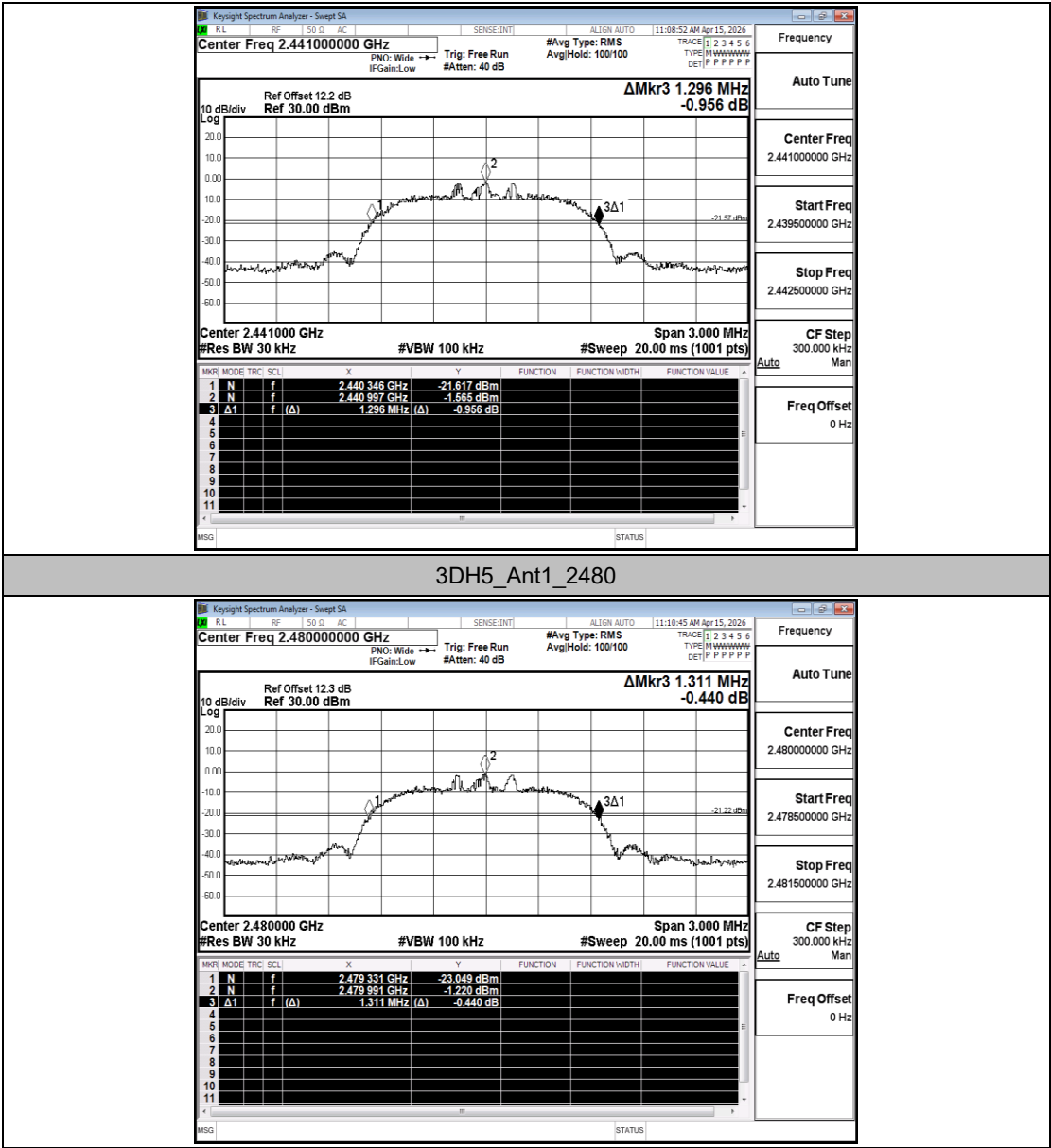


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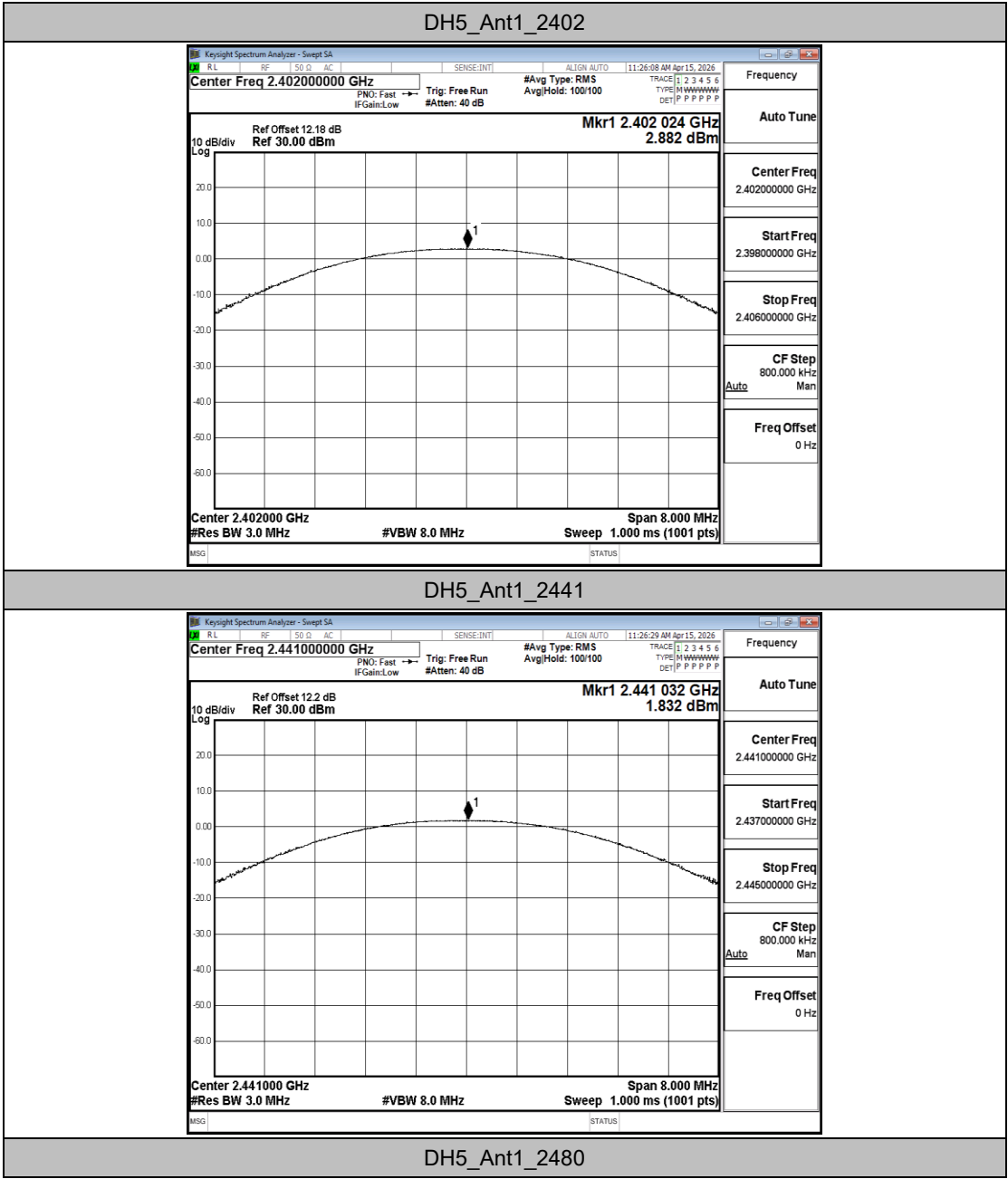


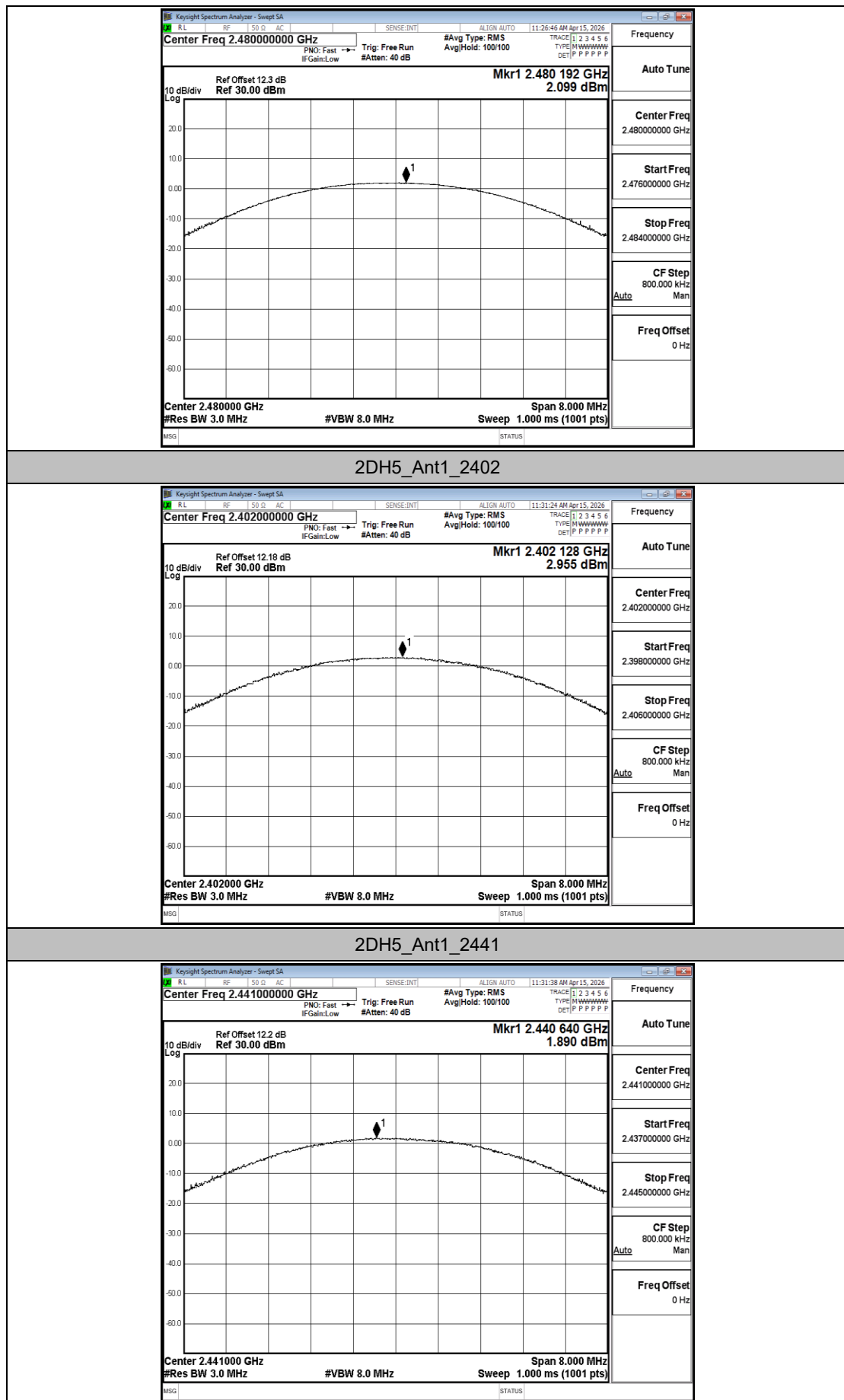
A.2 Maximum Peak conducted output power

Test Result Peak

Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.88	≤30	PASS
		2441	1.83	≤30	PASS
		2480	2.10	≤30	PASS
2DH5	Ant1	2402	2.96	≤30	PASS
		2441	1.89	≤30	PASS
		2480	2.07	≤30	PASS
3DH5	Ant1	2402	3.07	≤30	PASS
		2441	2.02	≤30	PASS
		2480	2.12	≤30	PASS

Test Graphs

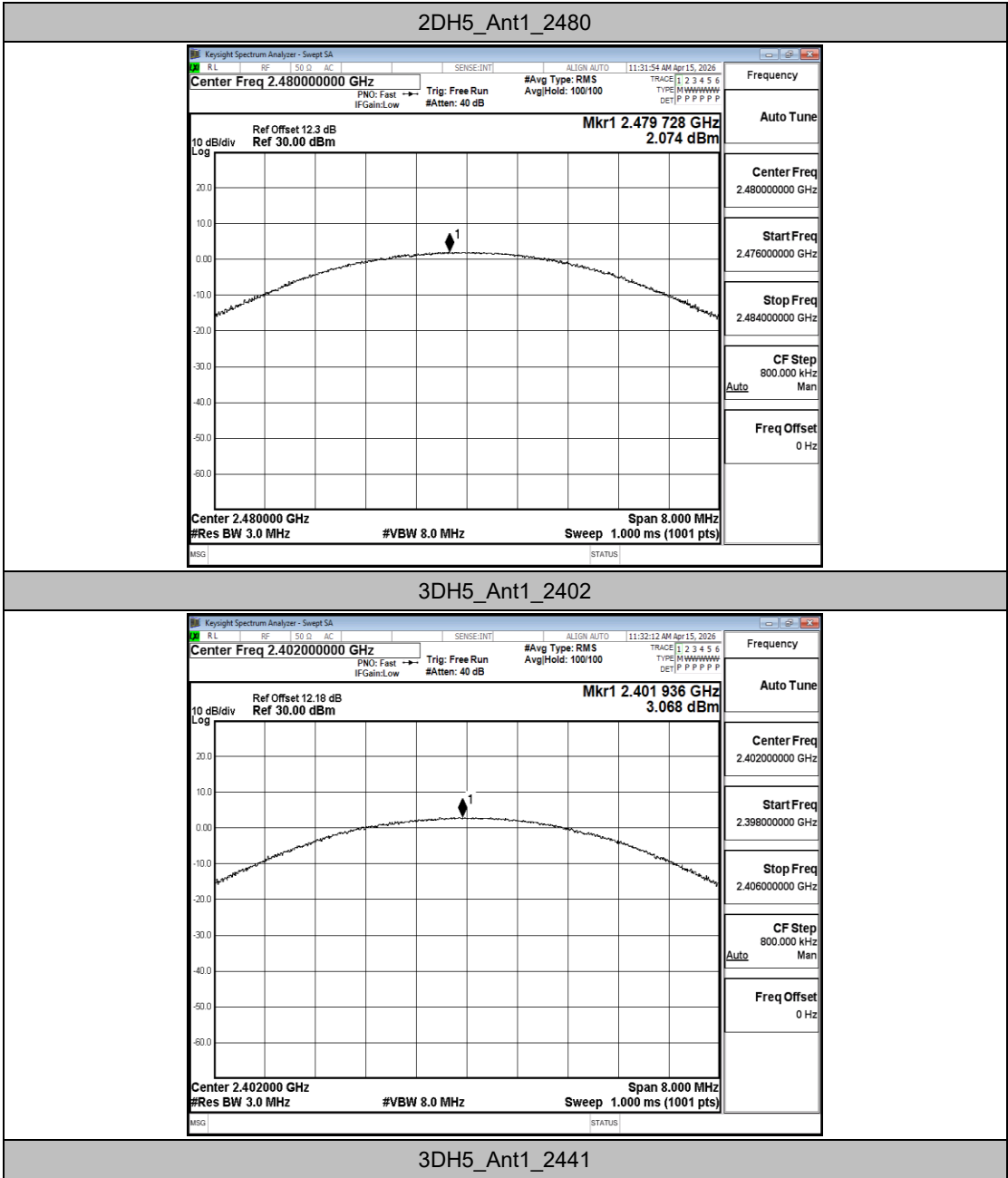


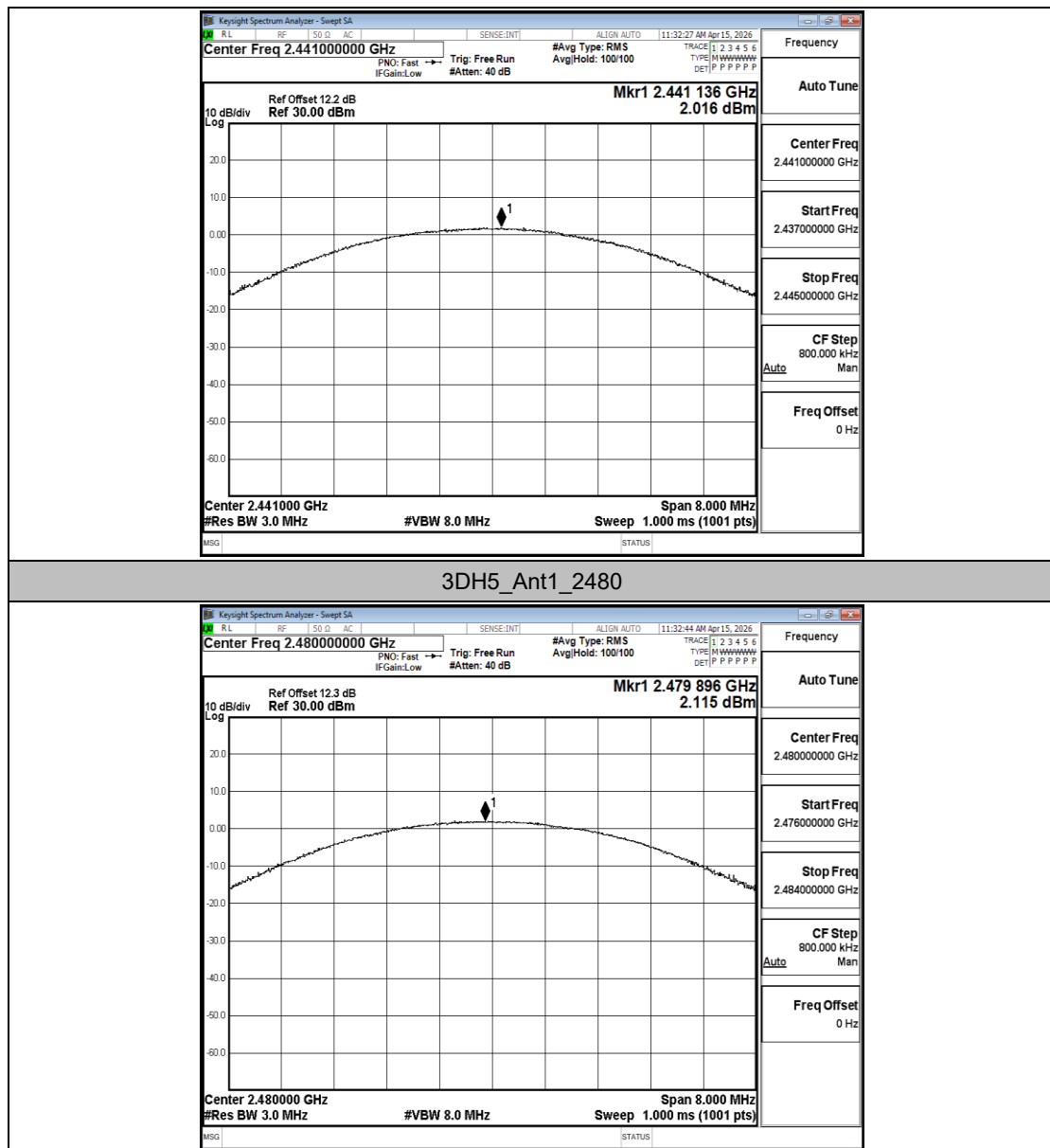


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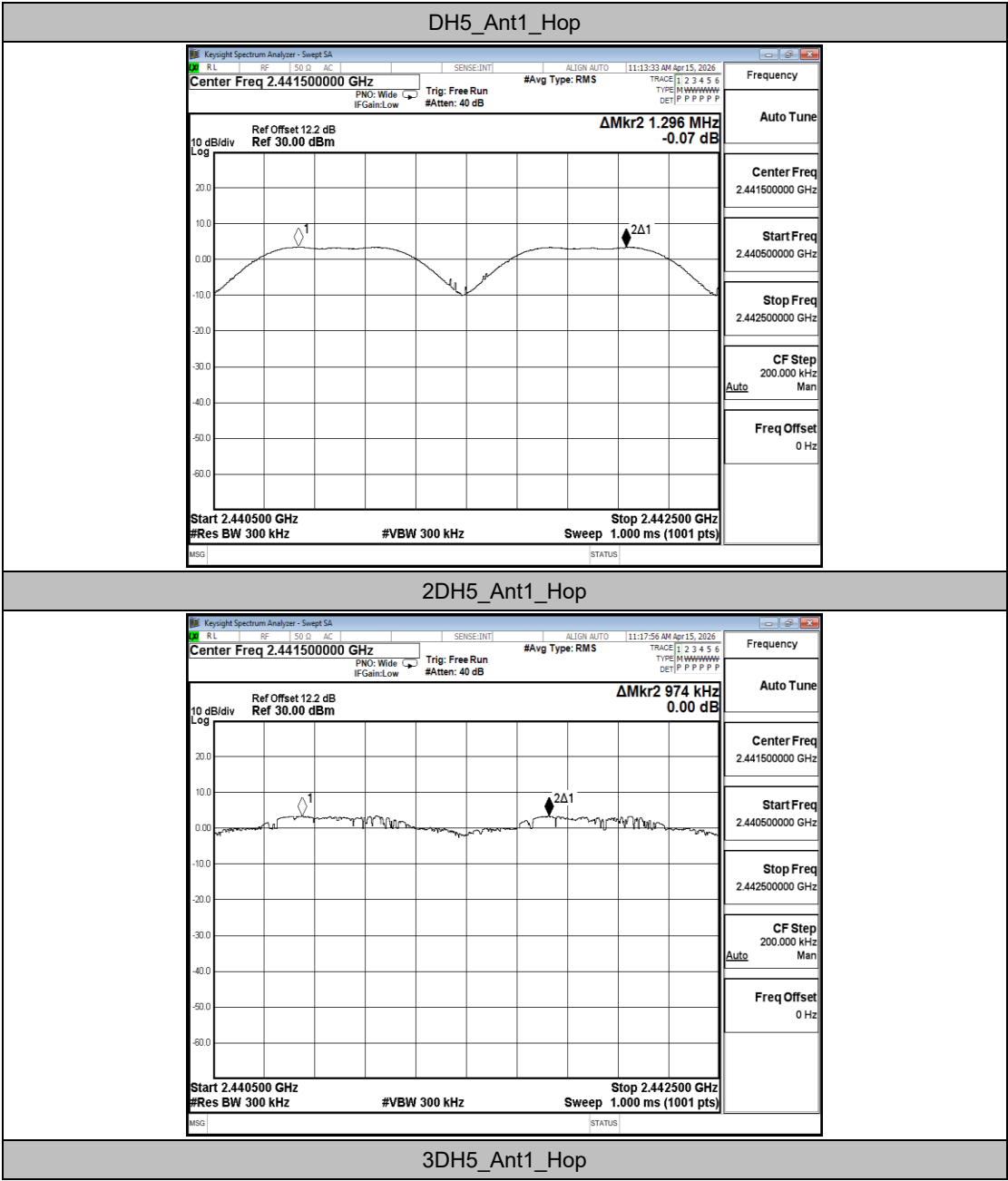


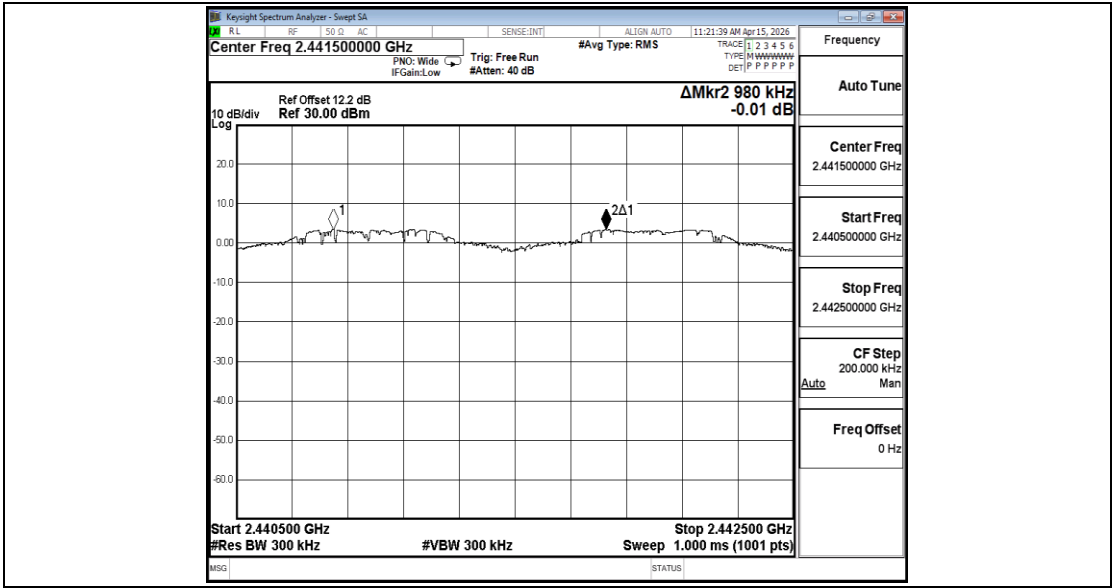
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.296	≥ 0.981	PASS
2DH5	Ant1	Hop	0.974	≥ 0.874	PASS
3DH5	Ant1	Hop	0.98	≥ 0.874	PASS

Test Graphs



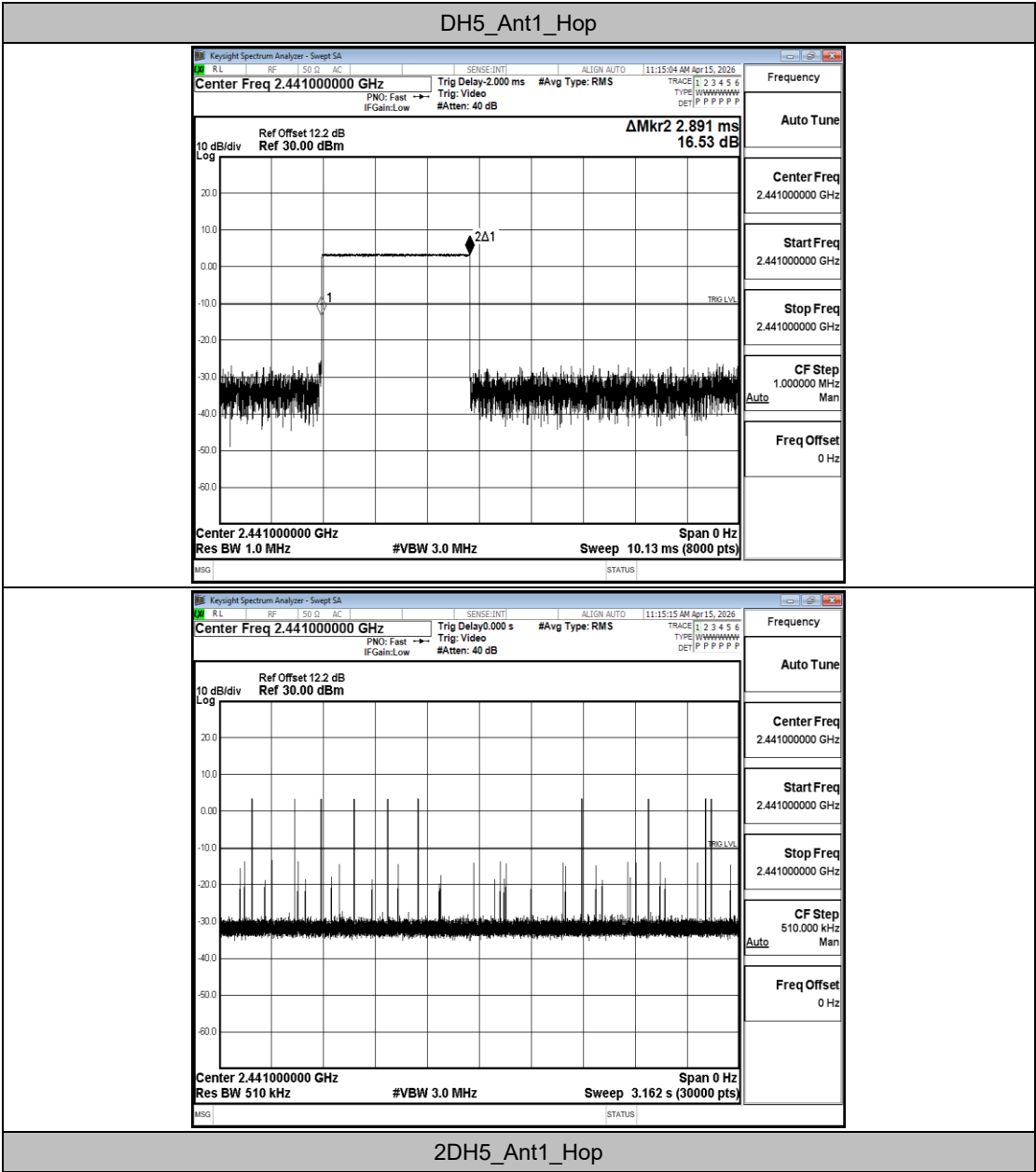


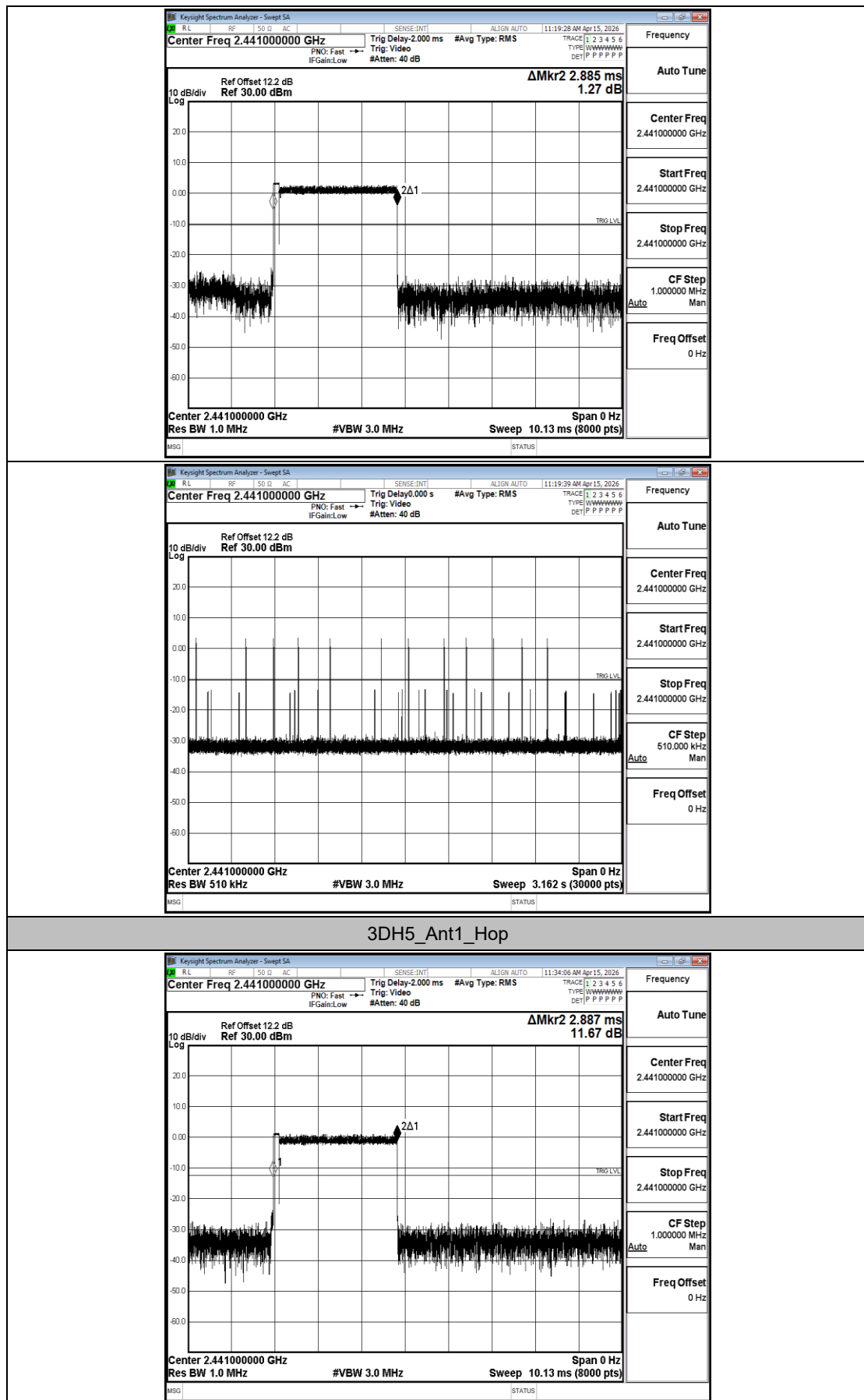
A.4 Time of occupancy

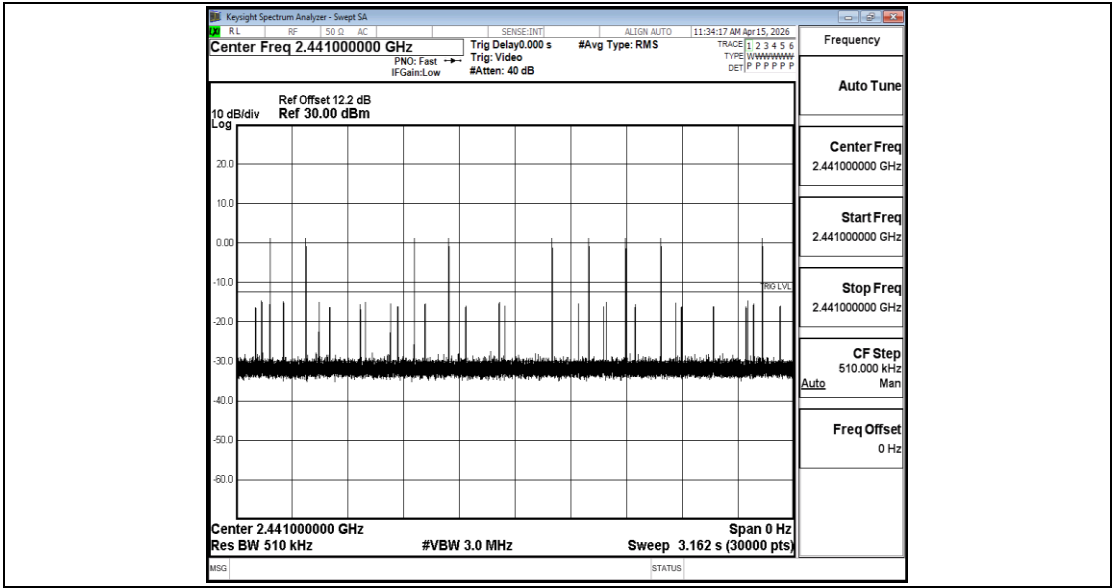
Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.891	110	0.318	≤0.4	PASS
2DH5	Ant1	Hop	2.885	130	0.375	≤0.4	PASS
3DH5	Ant1	Hop	2.887	100	0.289	≤0.4	PASS

Test Graphs





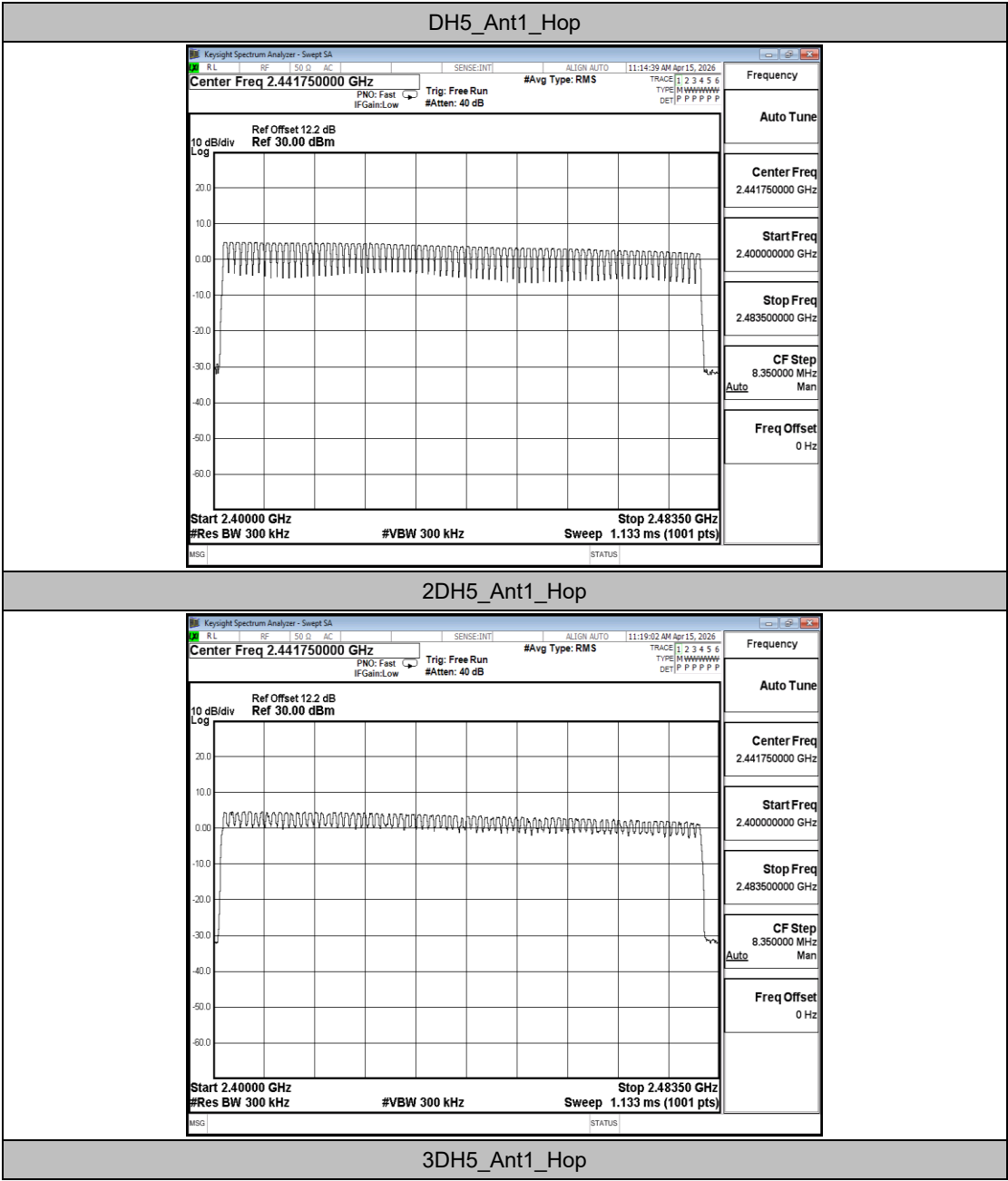


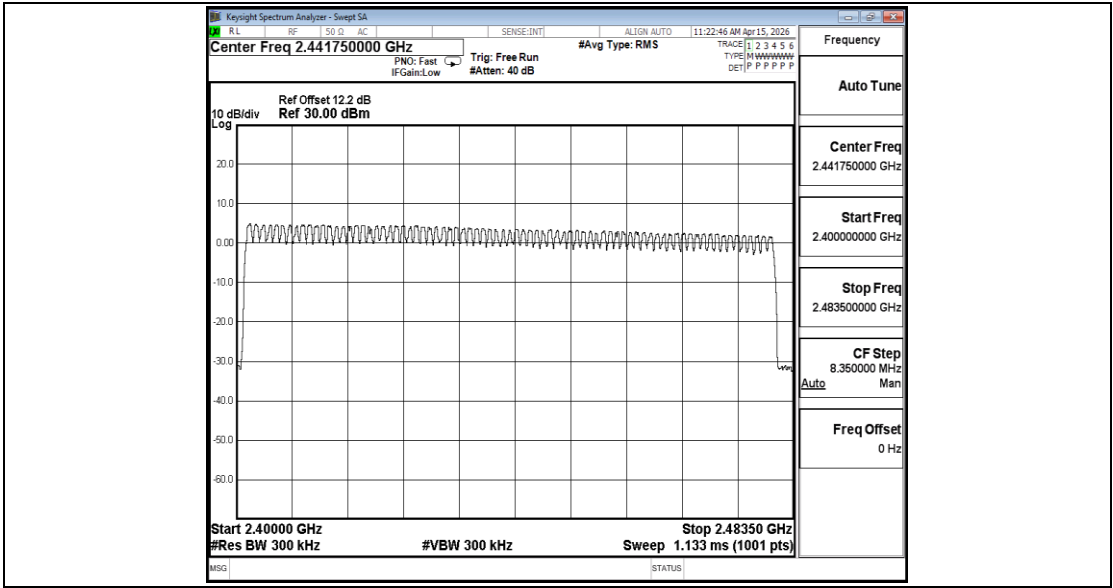
A.5 Number of hopping channels

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



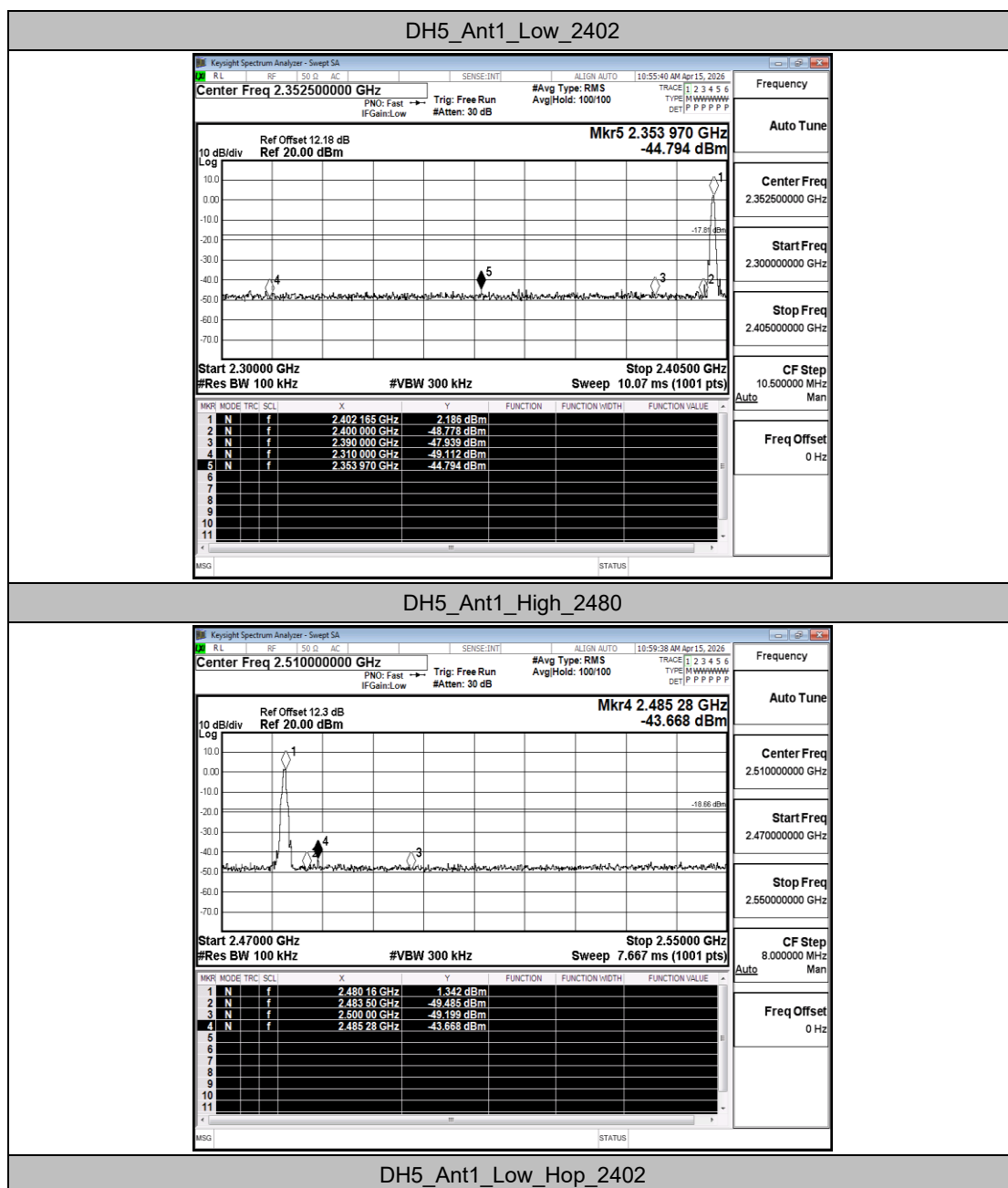


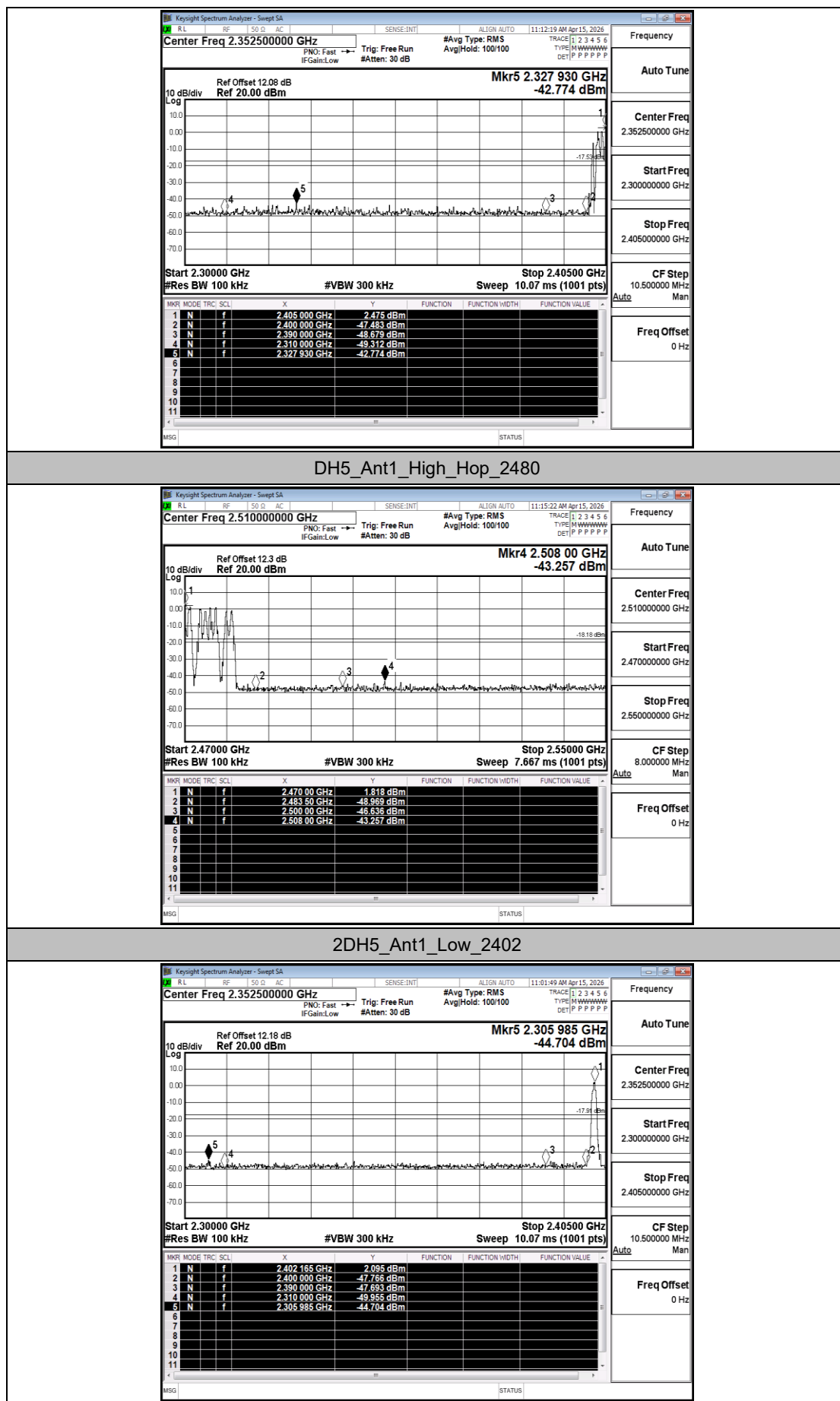
A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.19	-44.79	≤-17.81	PASS
		High	2480	1.34	-43.67	≤-18.66	PASS
		Low	Hop_2402	2.48	-42.77	≤-17.53	PASS
		High	Hop_2480	1.82	-43.26	≤-18.18	PASS
2DH5	Ant1	Low	2402	2.10	-44.7	≤-17.91	PASS
		High	2480	0.04	-45.43	≤-19.96	PASS
		Low	Hop_2402	2.45	-43.89	≤-17.55	PASS
		High	Hop_2480	-3.23	-44.77	≤-23.23	PASS
3DH5	Ant1	Low	2402	2.30	-44.77	≤-17.7	PASS
		High	2480	1.42	-44.55	≤-18.58	PASS
		Low	Hop_2402	-3.12	-43.17	≤-23.12	PASS
		High	Hop_2480	-2.50	-43.51	≤-22.5	PASS

Test Graphs



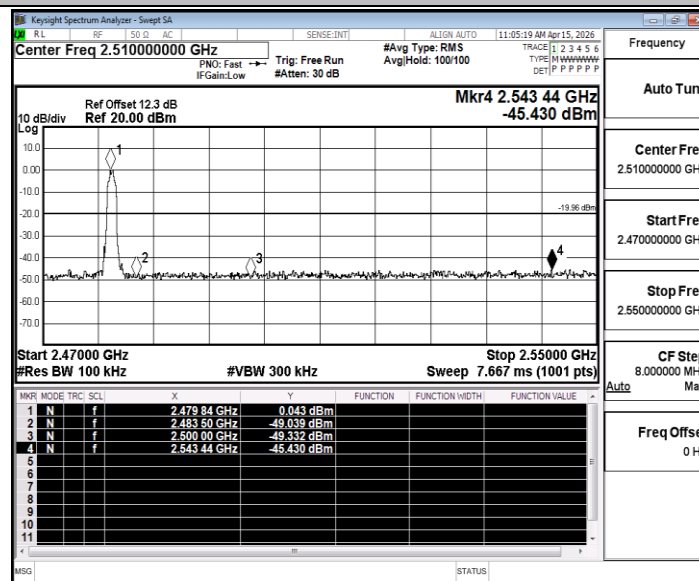


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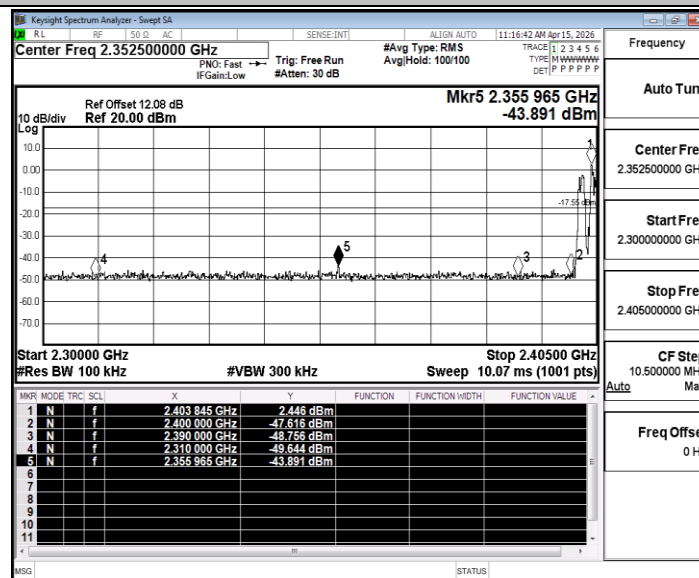
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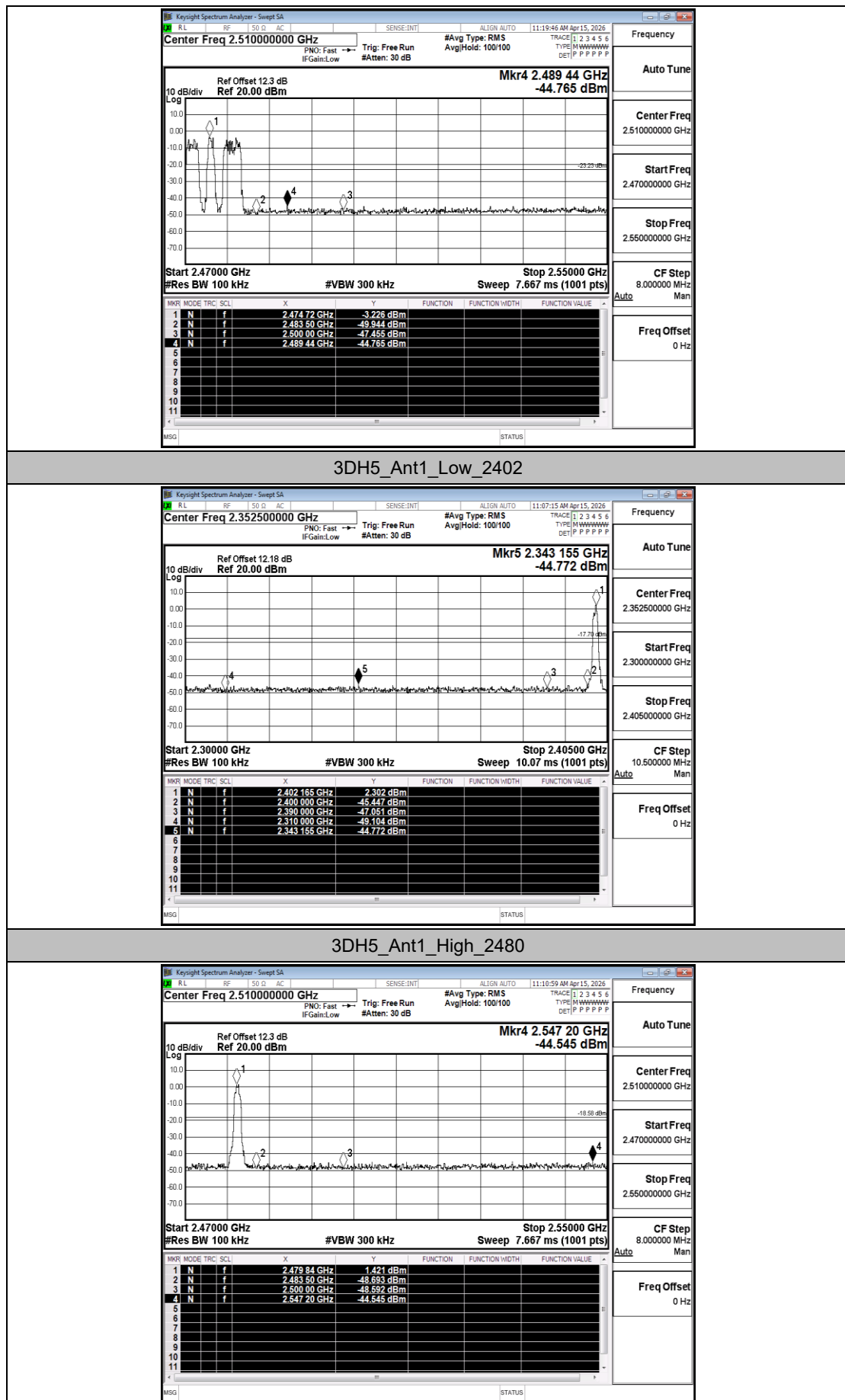
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



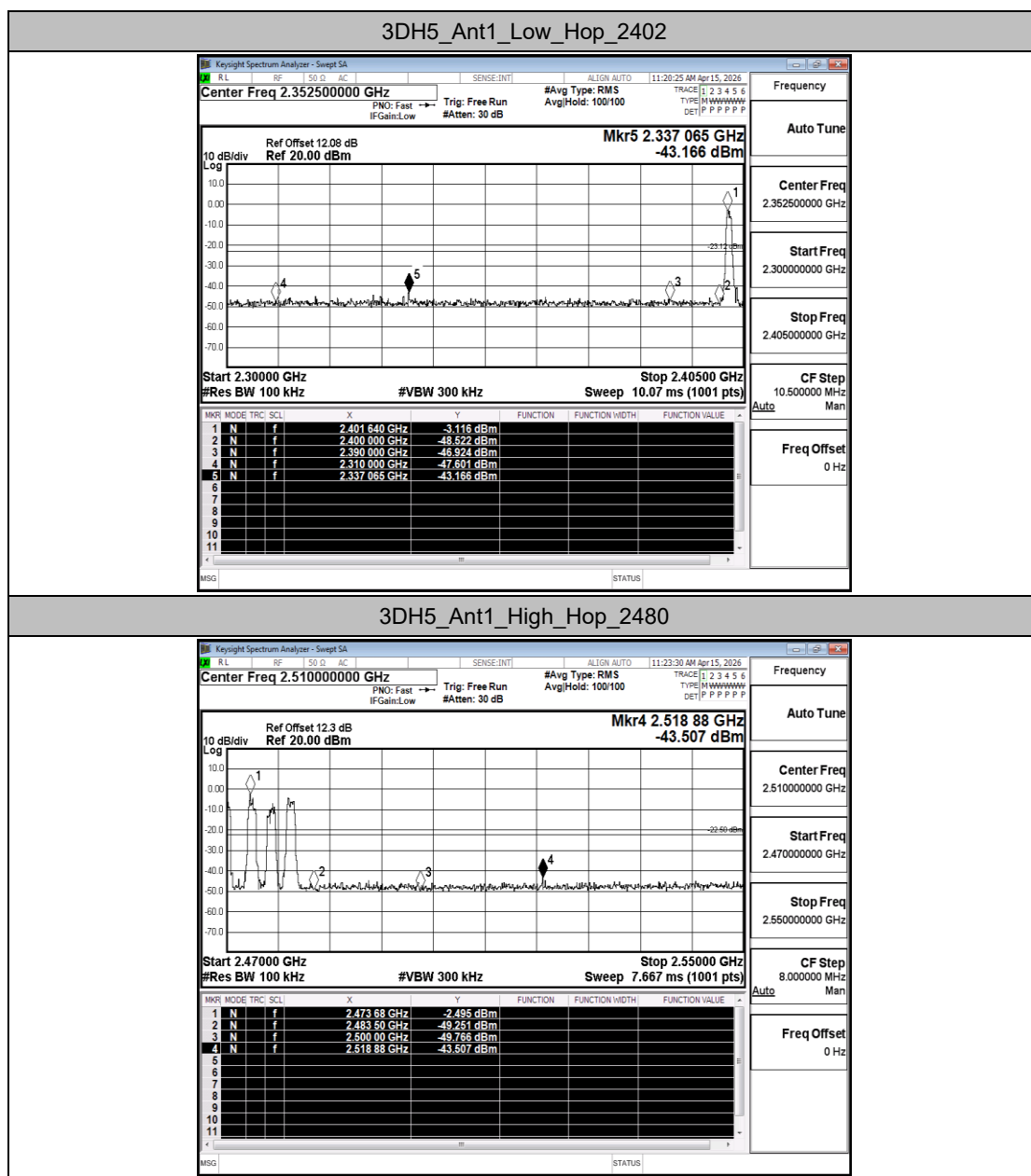
2DH5_Ant1_High_Hop_2480



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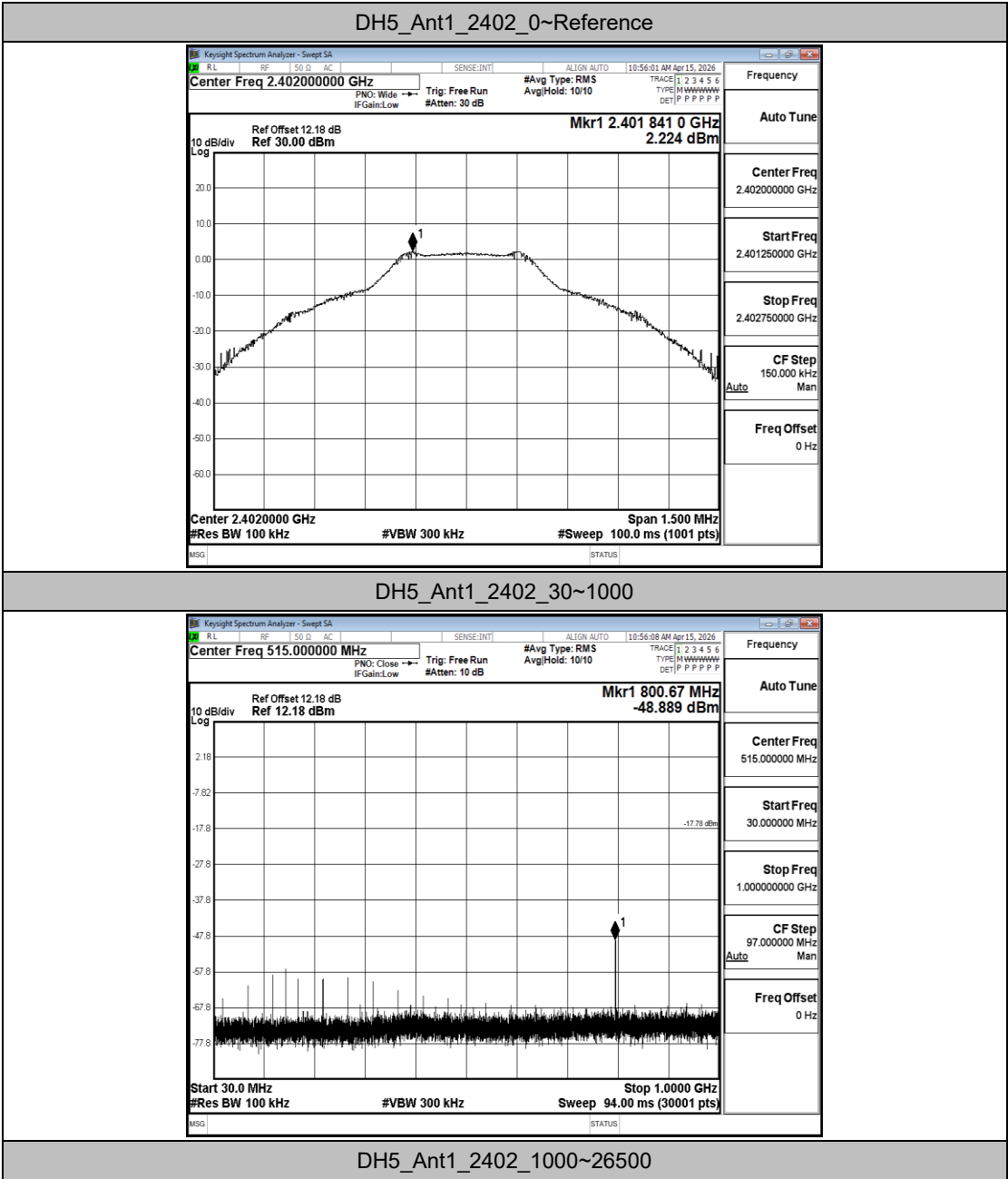


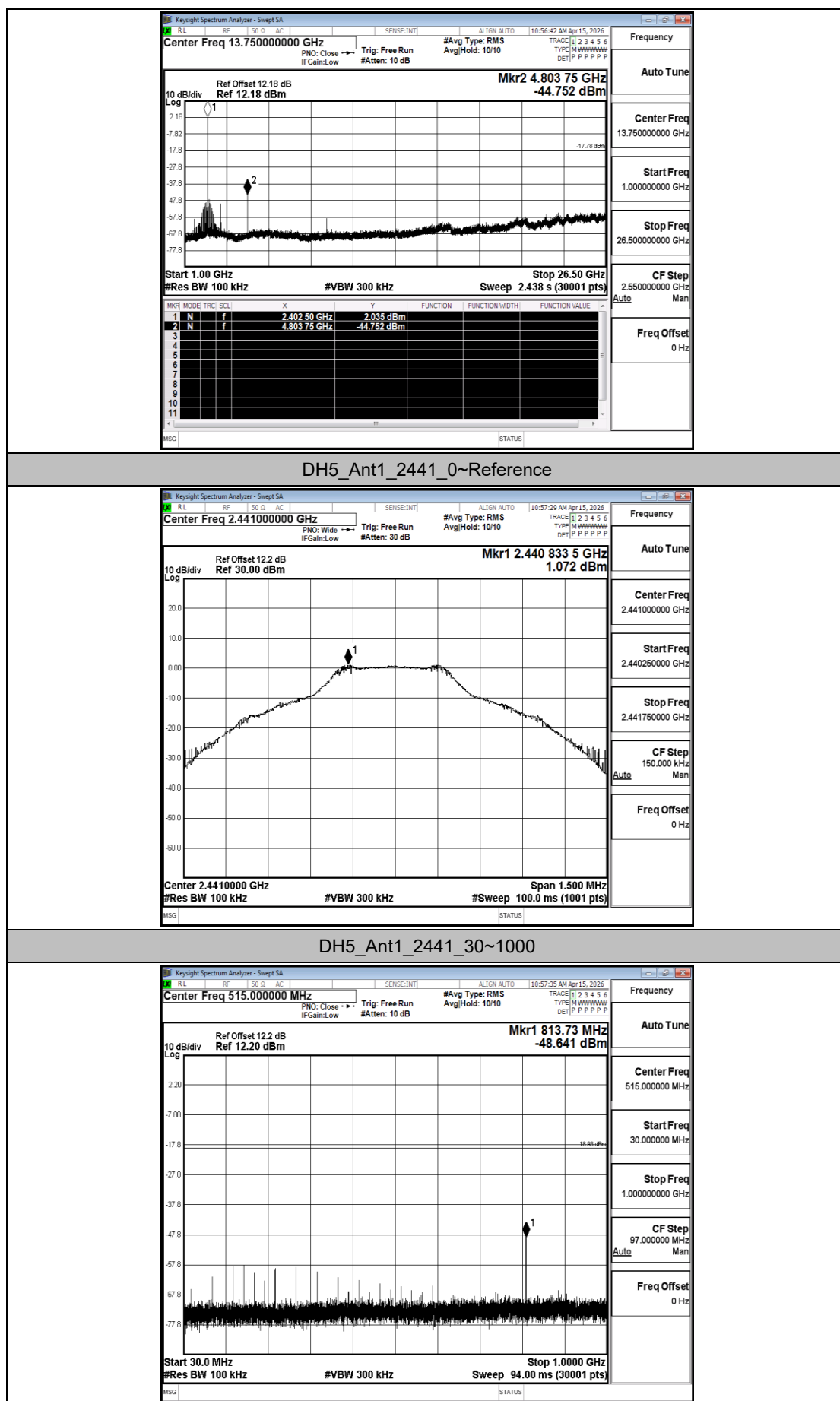
A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-48.89	≤-17.78	PASS
			1000~26500	2.22	-44.75	≤-17.78	PASS
		2441	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-48.64	≤-18.93	PASS
			1000~26500	1.07	-48.21	≤-18.93	PASS
		2480	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-47.79	≤-18.56	PASS
			1000~26500	1.44	-47.69	≤-18.56	PASS
2DH5	Ant1	2402	Reference	2.26	2.26	---	PASS
			30~1000	2.26	-51.99	≤-17.74	PASS
			1000~26500	2.26	-48.88	≤-17.74	PASS
		2441	Reference	1.10	1.10	---	PASS
			30~1000	1.10	-53.53	≤-18.9	PASS
			1000~26500	1.10	-50.57	≤-18.9	PASS
		2480	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-53.11	≤-18.56	PASS
			1000~26500	1.44	-49.02	≤-18.56	PASS
3DH5	Ant1	2402	Reference	2.24	2.24	---	PASS
			30~1000	2.24	-53.3	≤-17.76	PASS
			1000~26500	2.24	-50.12	≤-17.76	PASS
		2441	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-52.97	≤-18.88	PASS
			1000~26500	1.12	-50.16	≤-18.88	PASS
		2480	Reference	1.43	1.43	---	PASS
			30~1000	1.43	-52.33	≤-18.57	PASS
			1000~26500	1.43	-50.39	≤-18.57	PASS

Test Graphs

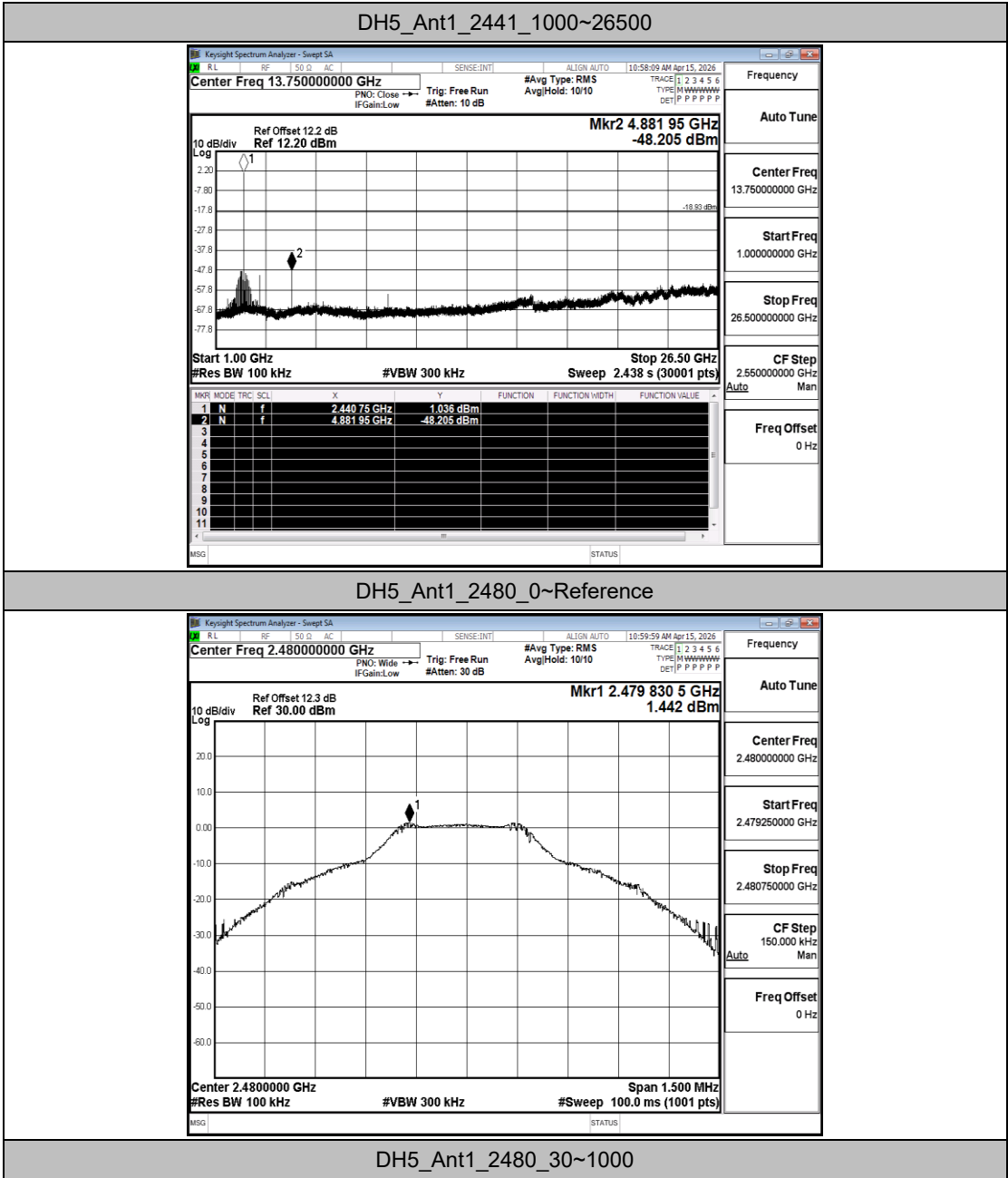


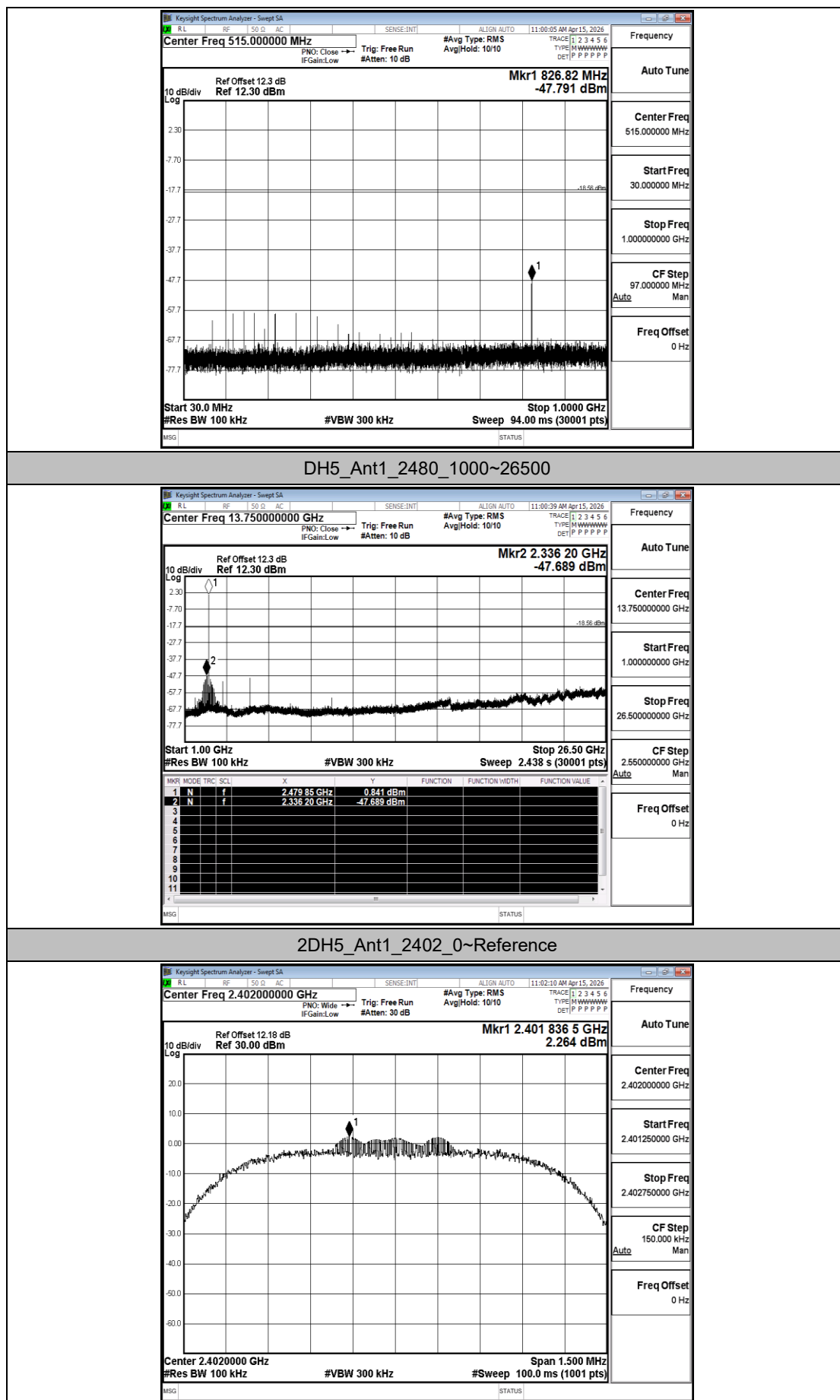


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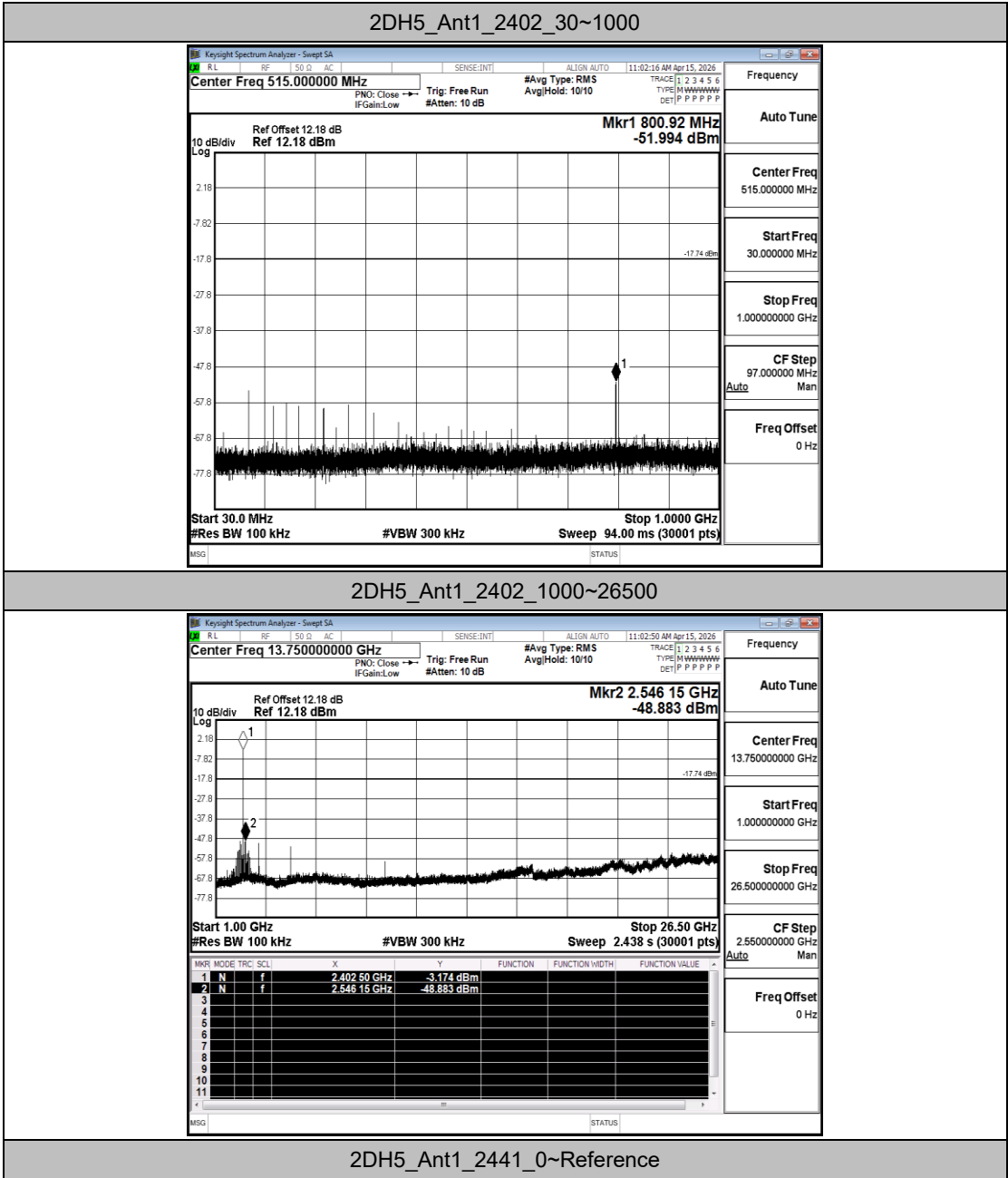


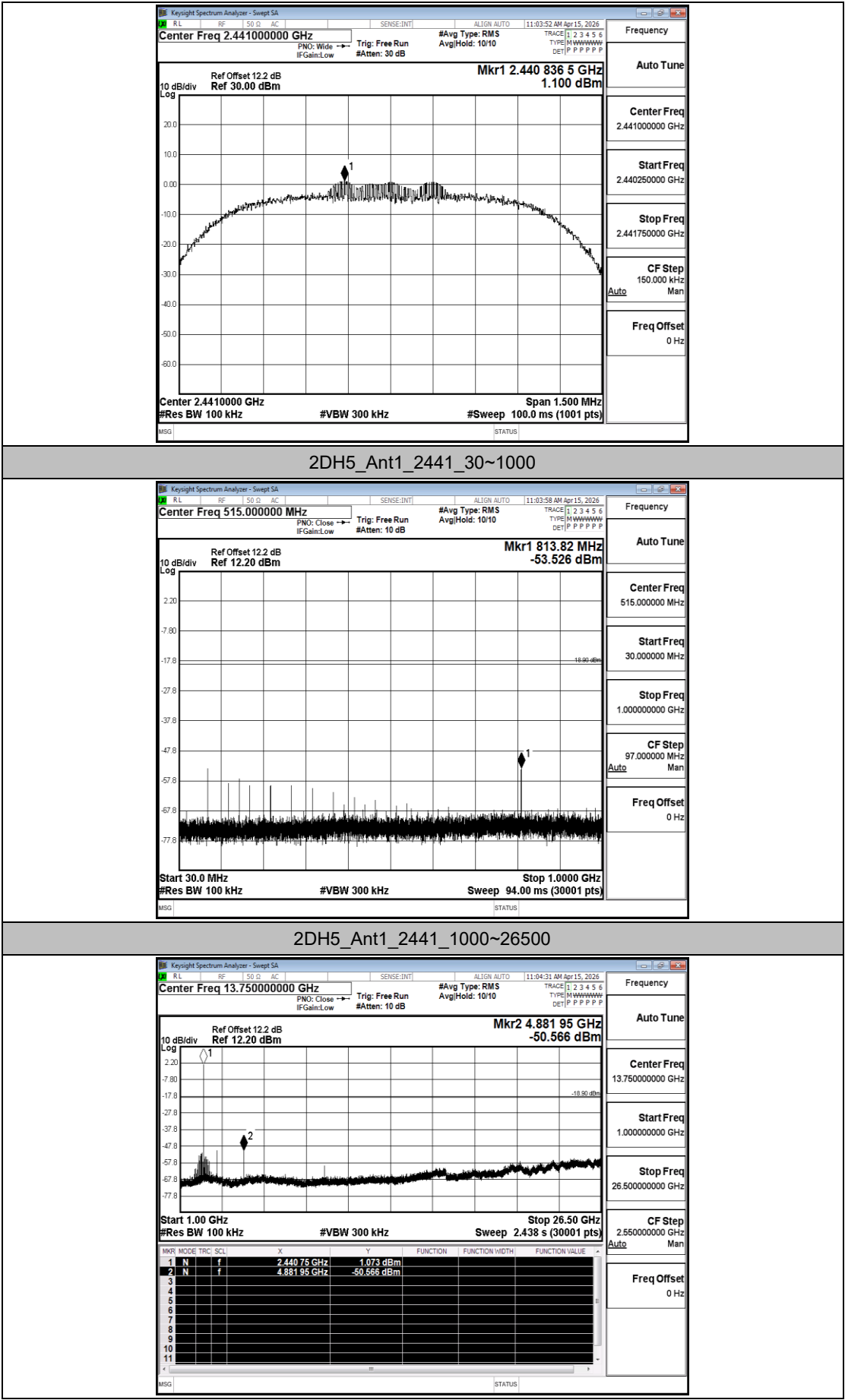


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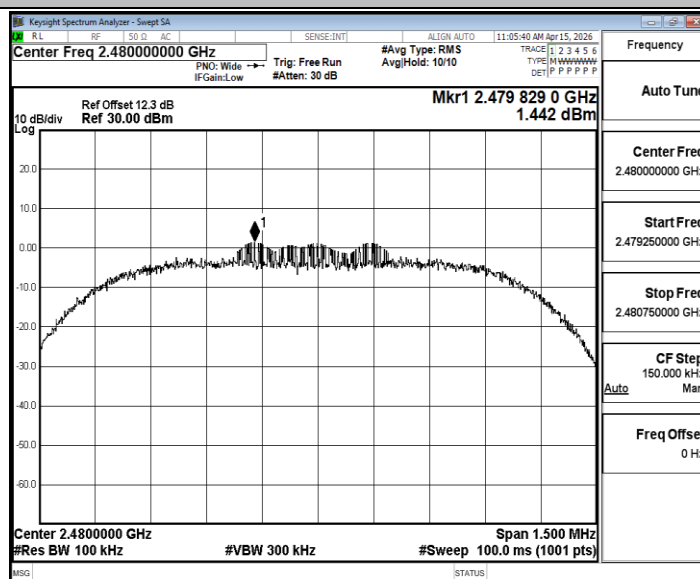
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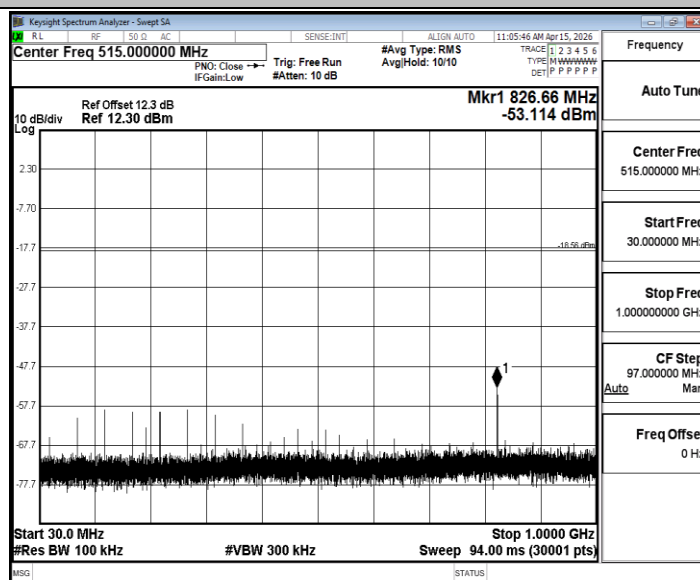




2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500