

Case No. : <u>GTS20231018011-1-85</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH	
According Standard: <u>■Part15C</u>	
Test Date: <u>2024.1.19</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.825	2401.595	2402.420	---	---
		2441	0.852	2440.562	2441.414	---	---
		2480	0.810	2479.577	2480.387	---	---
2DH1	Ant2	2402	1.230	2401.385	2402.615	---	---
		2441	1.194	2440.382	2441.576	---	---
		2480	1.206	2479.400	2480.606	---	---
3DH1	Ant2	2402	1.212	2401.421	2402.633	---	---
		2441	1.227	2440.406	2441.633	---	---
		2480	1.248	2479.385	2480.633	---	---

Test Graphs

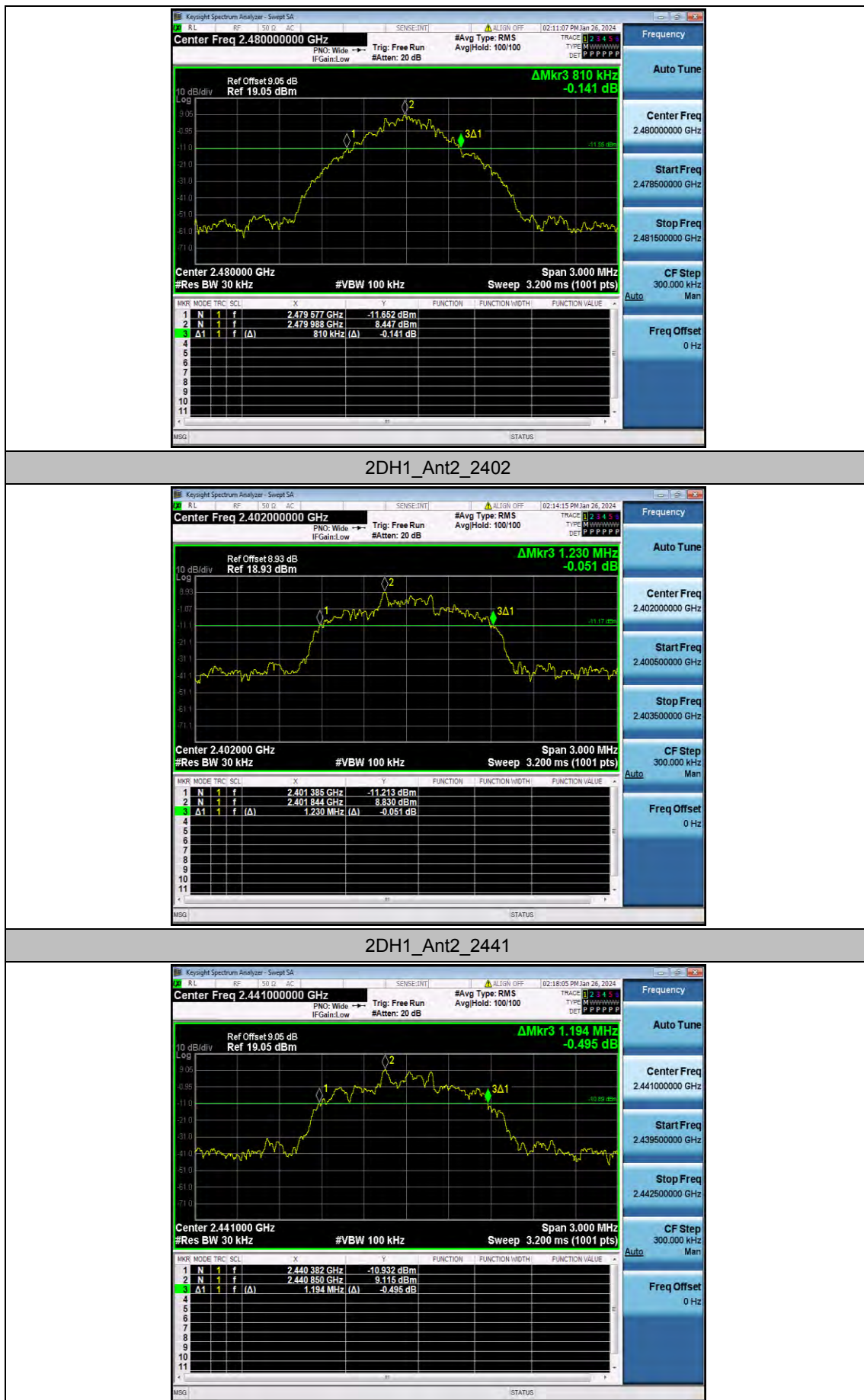
DH1_Ant2_2402



DH1_Ant2_2441



DH1_Ant2_2480



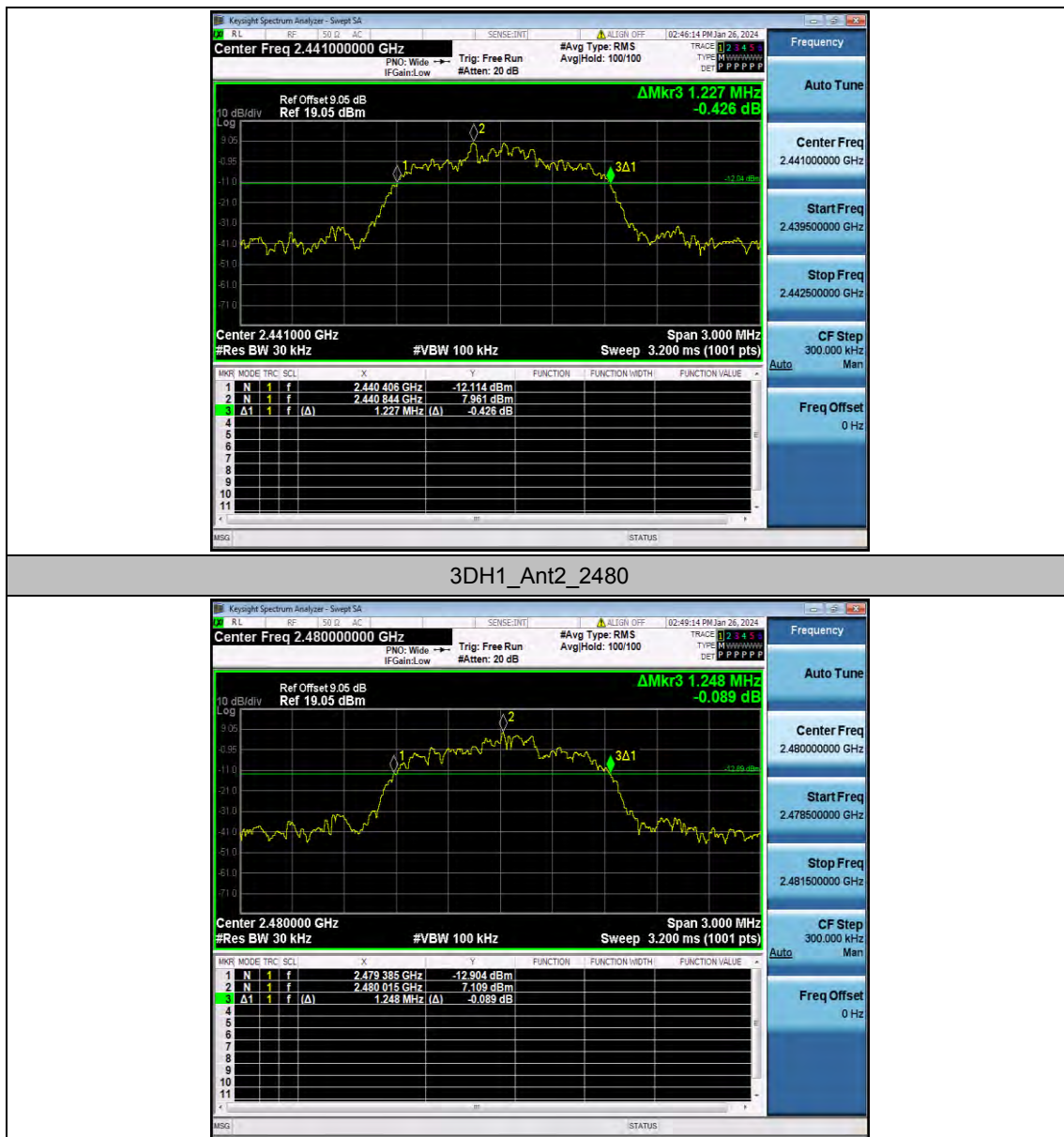
2DH1_Ant2_2480



3DH1_Ant2_2402



3DH1_Ant2_2441



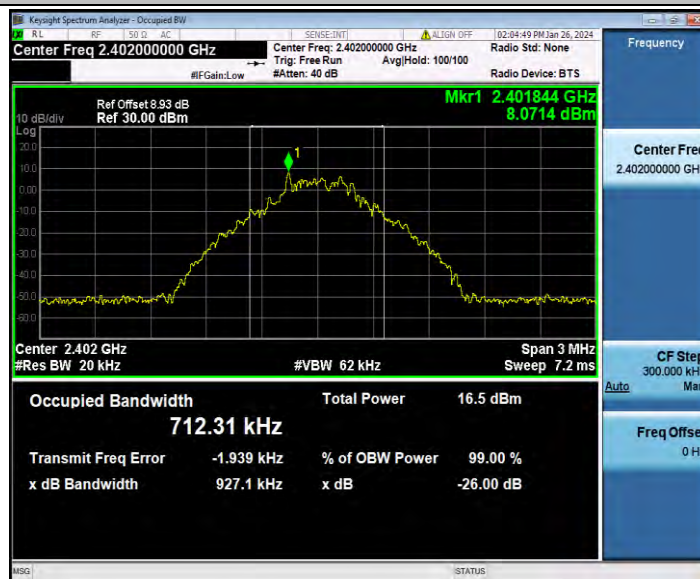
Appendix A.2: Occupied Channel Bandwidth

Test Result

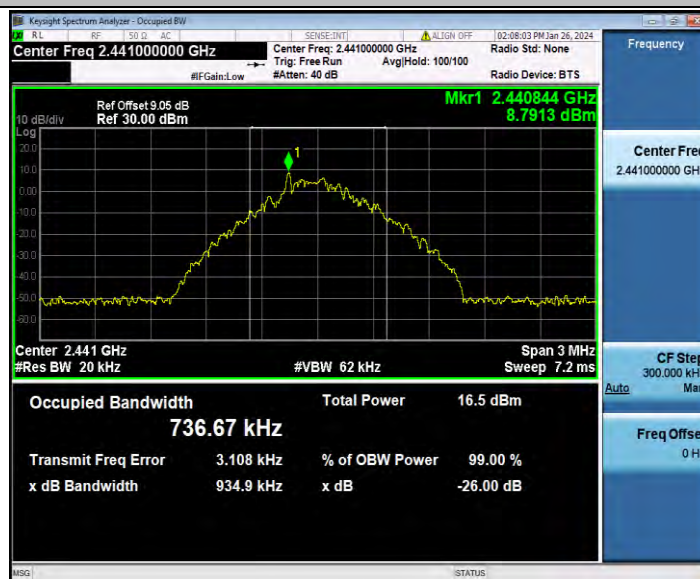
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.71231	2401.6419	2402.3542	---	---
		2441	0.73667	2440.6348	2441.3714	---	---
		2480	0.73178	2479.6358	2480.3676	---	---
2DH1	Ant2	2402	1.1448	2401.4283	2402.5731	---	---
		2441	1.1436	2440.4355	2441.5791	---	---
		2480	1.1208	2479.4369	2480.5577	---	---
3DH1	Ant2	2402	1.1446	2401.4470	2402.5916	---	---
		2441	1.1400	2440.4489	2441.5889	---	---
		2480	1.1193	2479.4537	2480.5730	---	---

Test Graphs

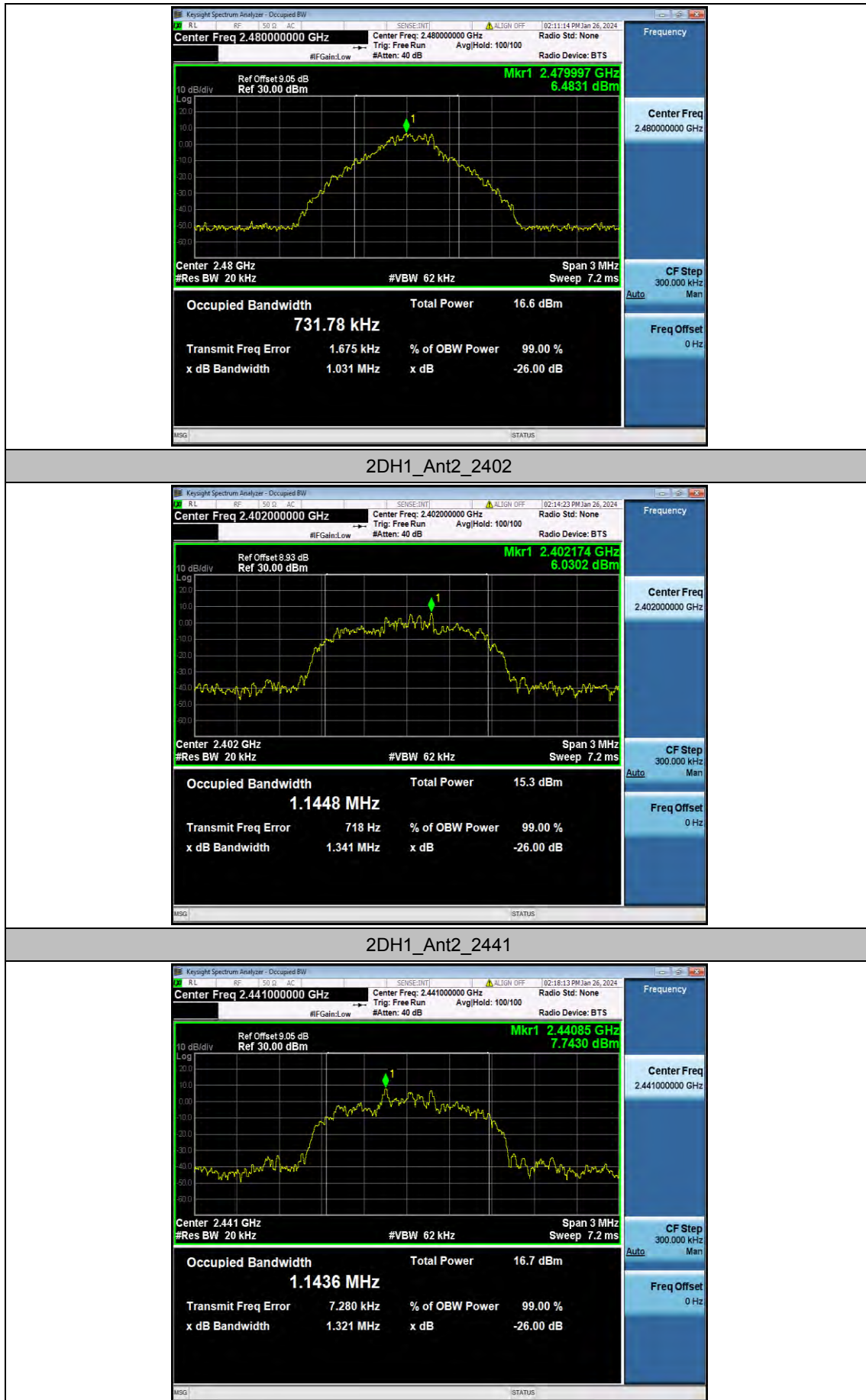
DH1_Ant2_2402



DH1_Ant2_2441



DH1_Ant2_2480



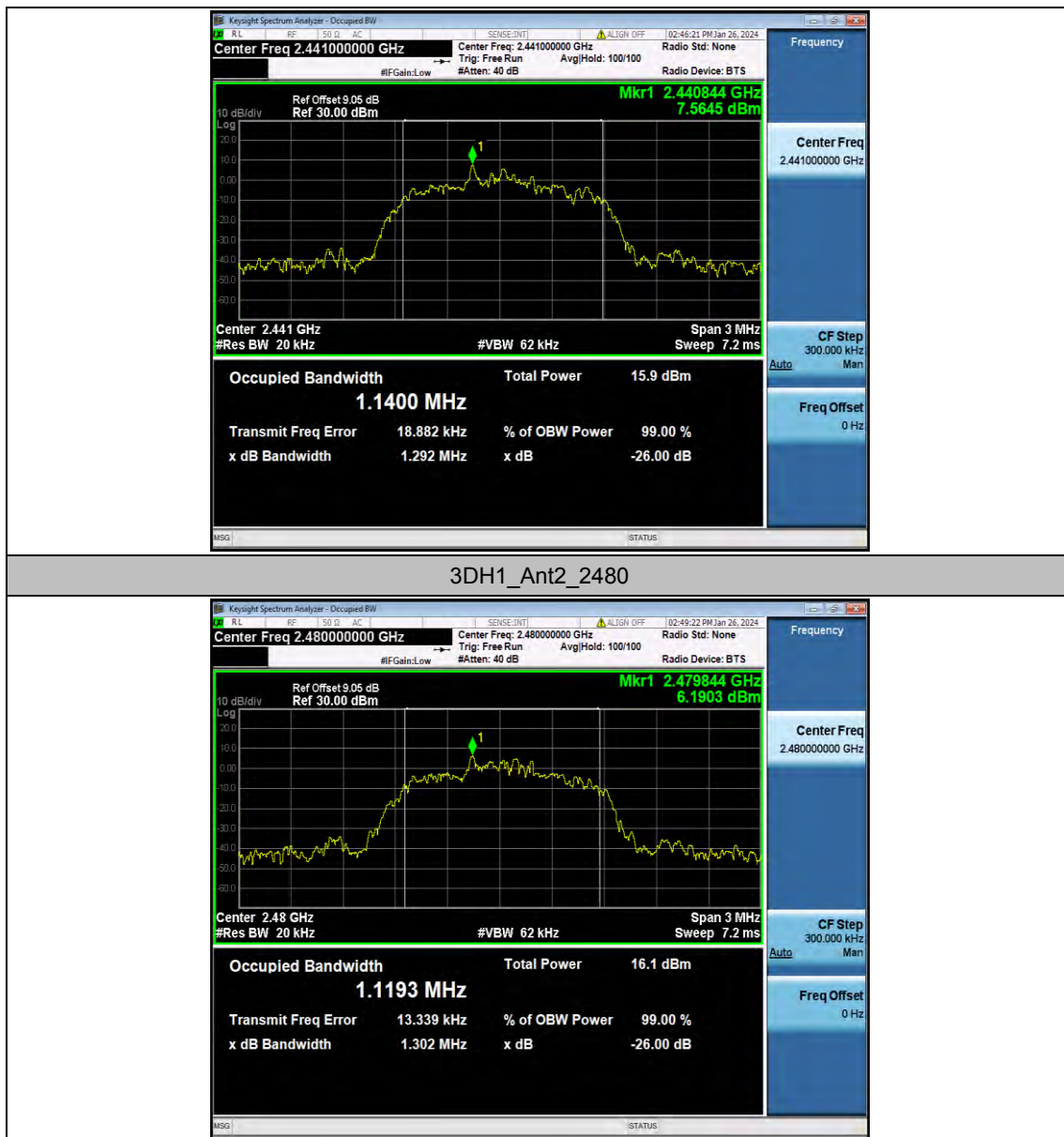
2DH1_Ant2_2480



3DH1_Ant2_2402



3DH1_Ant2_2441



Appendix A.3: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant2	2402	10.90	≤ 20.97	PASS
		2441	11.54	≤ 20.97	PASS
		2480	11.59	≤ 20.97	PASS
2DH1	Ant2	2402	10.77	≤ 20.97	PASS
		2441	11.60	≤ 20.97	PASS
		2480	11.42	≤ 20.97	PASS
3DH1	Ant2	2402	10.89	≤ 20.97	PASS
		2441	11.56	≤ 20.97	PASS
		2480	11.45	≤ 20.97	PASS

Note:

1.The Duty Cycle Factor and RBW Factor is compensated in the data.

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant2	Hop_2402	0.936	≥ 0.568	PASS
		Hop_2441	0.872	≥ 0.568	PASS
		Hop_2480	0.682	≥ 0.568	PASS
2DH1	Ant2	Hop_2402	1.01	≥ 0.820	PASS
		Hop_2441	1.168	≥ 0.820	PASS
		Hop_2480	0.98	≥ 0.820	PASS
3DH1	Ant2	Hop_2402	0.958	≥ 0.832	PASS
		Hop_2441	0.994	≥ 0.832	PASS
		Hop_2480	1.31	≥ 0.832	PASS

Test Graphs

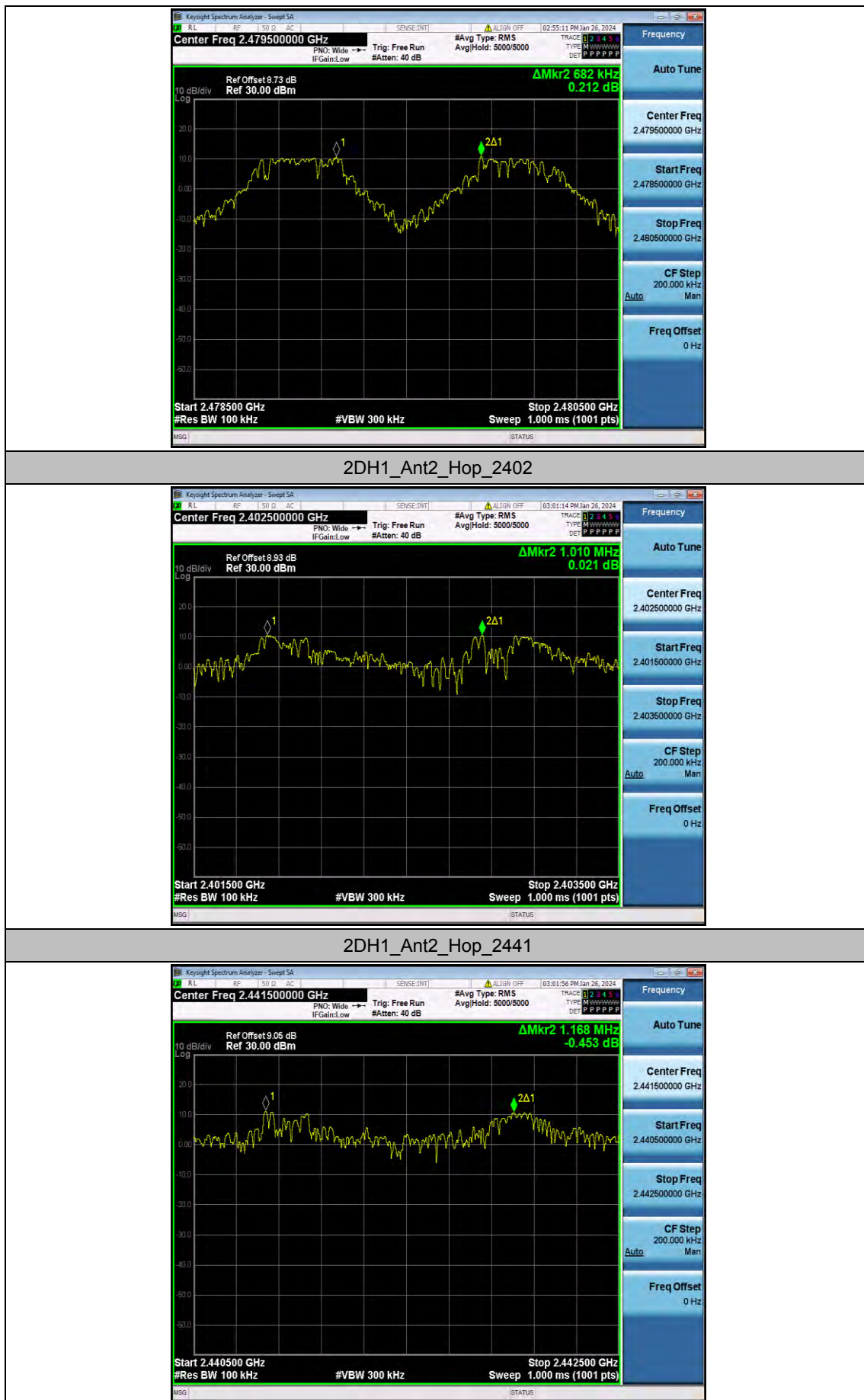
DH1_Ant2_Hop_2402



DH1_Ant2_Hop_2441



DH1_Ant2_Hop_2480



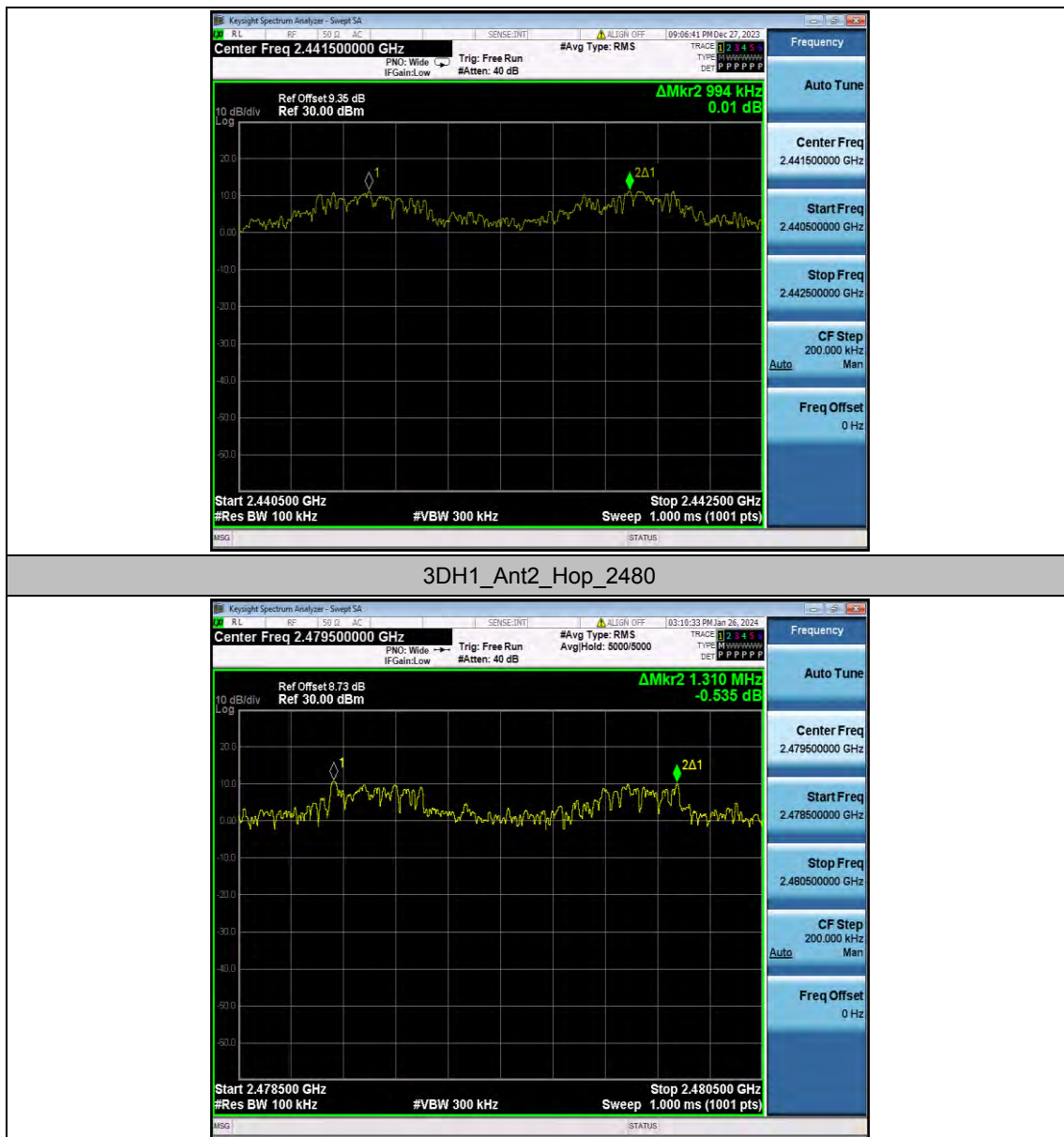
2DH1_Ant2_Hop_2480



3DH1_Ant2_Hop_2402



3DH1_Ant2_Hop_2441

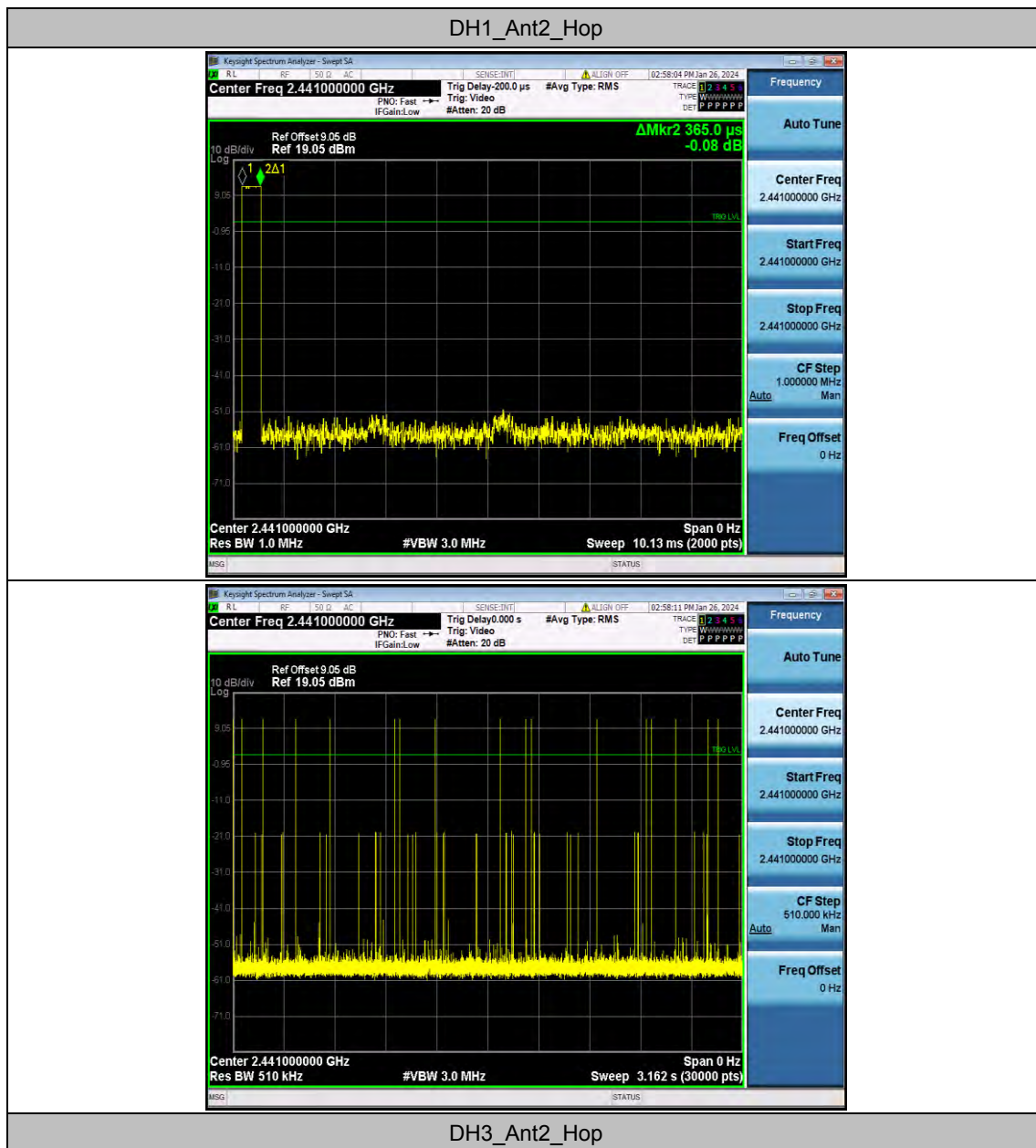


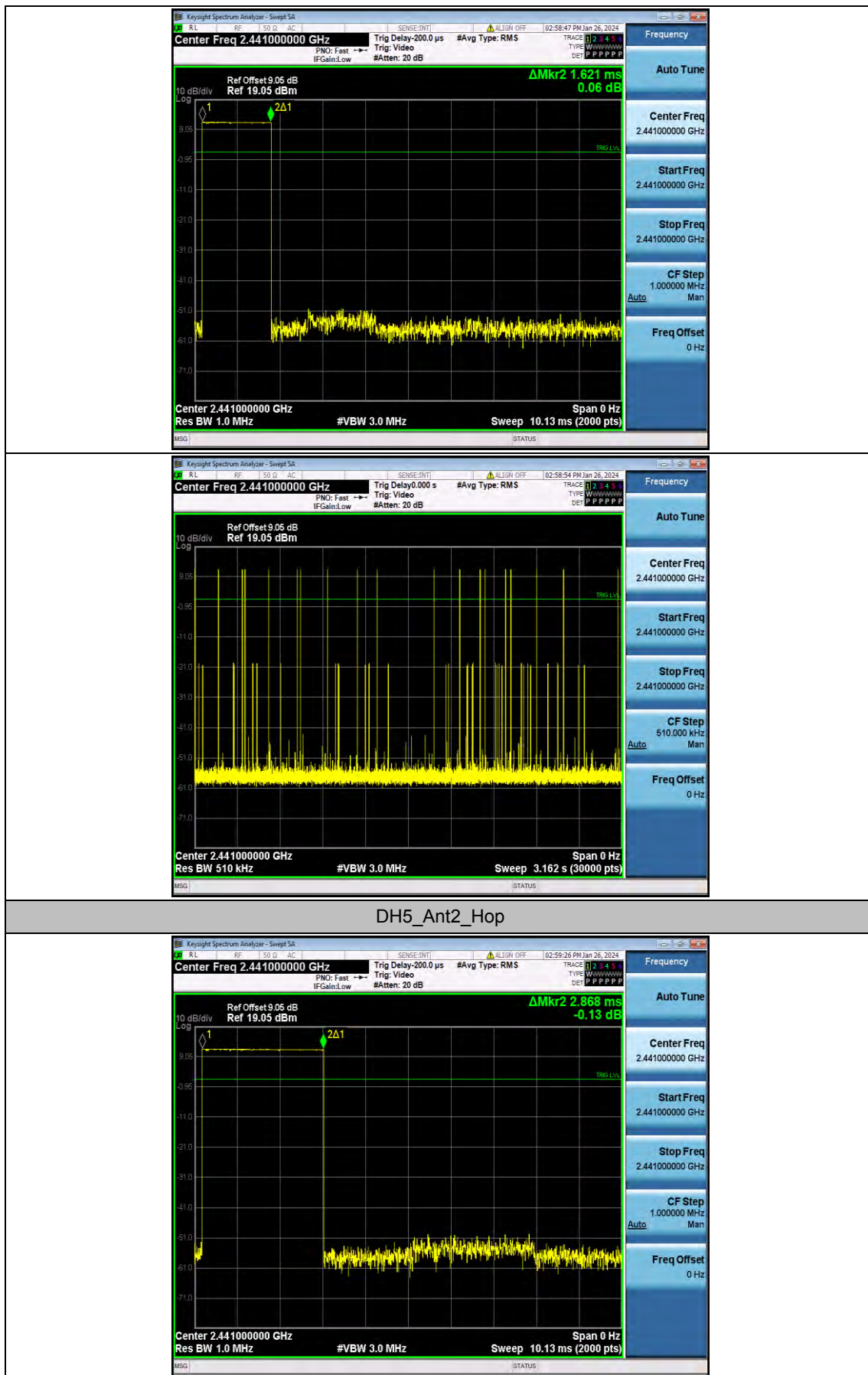
Appendix A.5: Time of occupancy

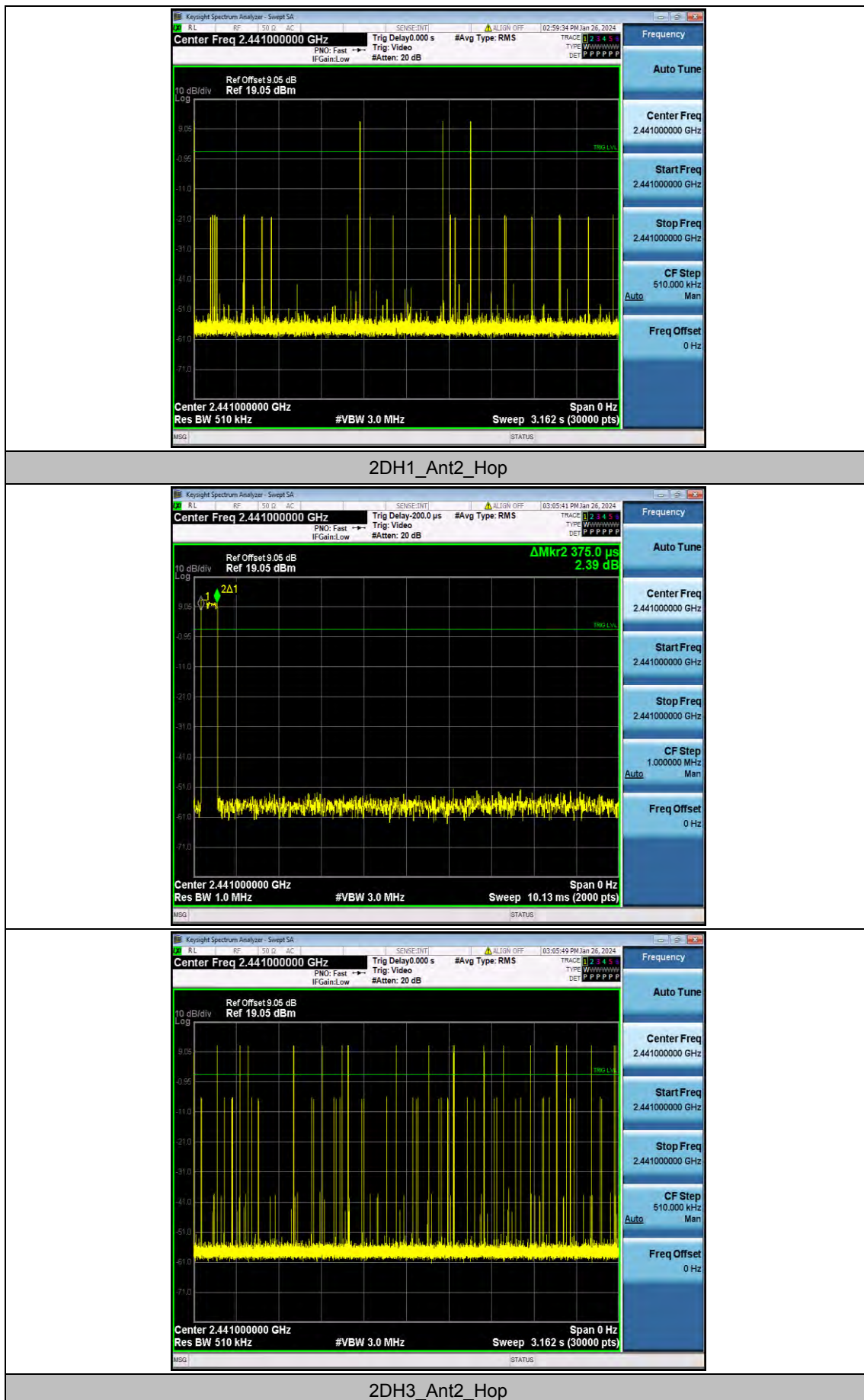
Test Result

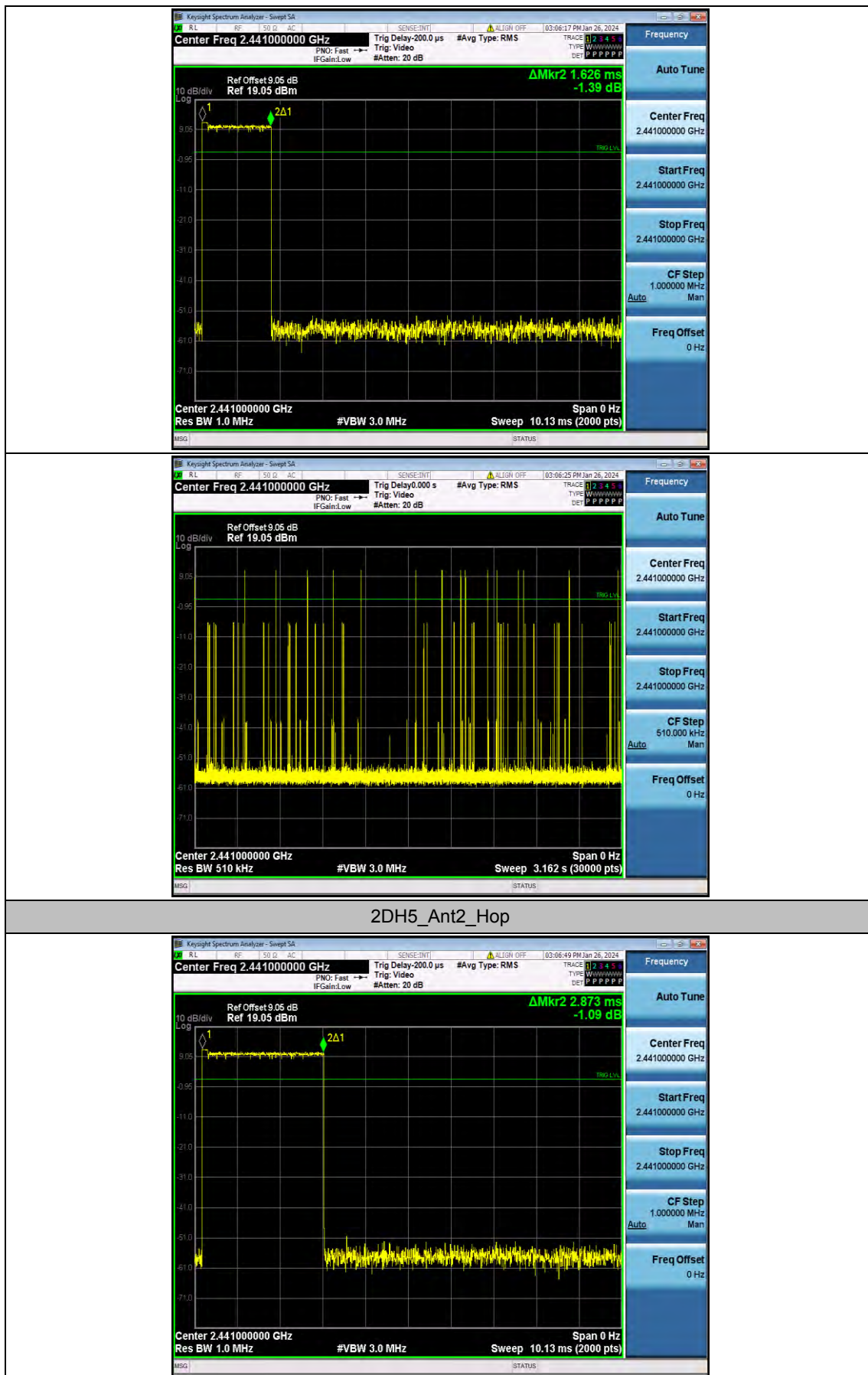
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant2	Hop	0.365	170	0.062	≤0.4	PASS
DH3	Ant2	Hop	1.621	190	0.308	≤0.4	PASS
DH5	Ant2	Hop	2.868	40	0.115	≤0.4	PASS
2DH1	Ant2	Hop	0.375	200	0.075	≤0.4	PASS
2DH3	Ant2	Hop	1.626	160	0.26	≤0.4	PASS
2DH5	Ant2	Hop	2.873	90	0.259	≤0.4	PASS
3DH1	Ant2	Hop	0.370	170	0.063	≤0.4	PASS
3DH3	Ant2	Hop	1.626	150	0.244	≤0.4	PASS
3DH5	Ant2	Hop	2.878	70	0.201	≤0.4	PASS

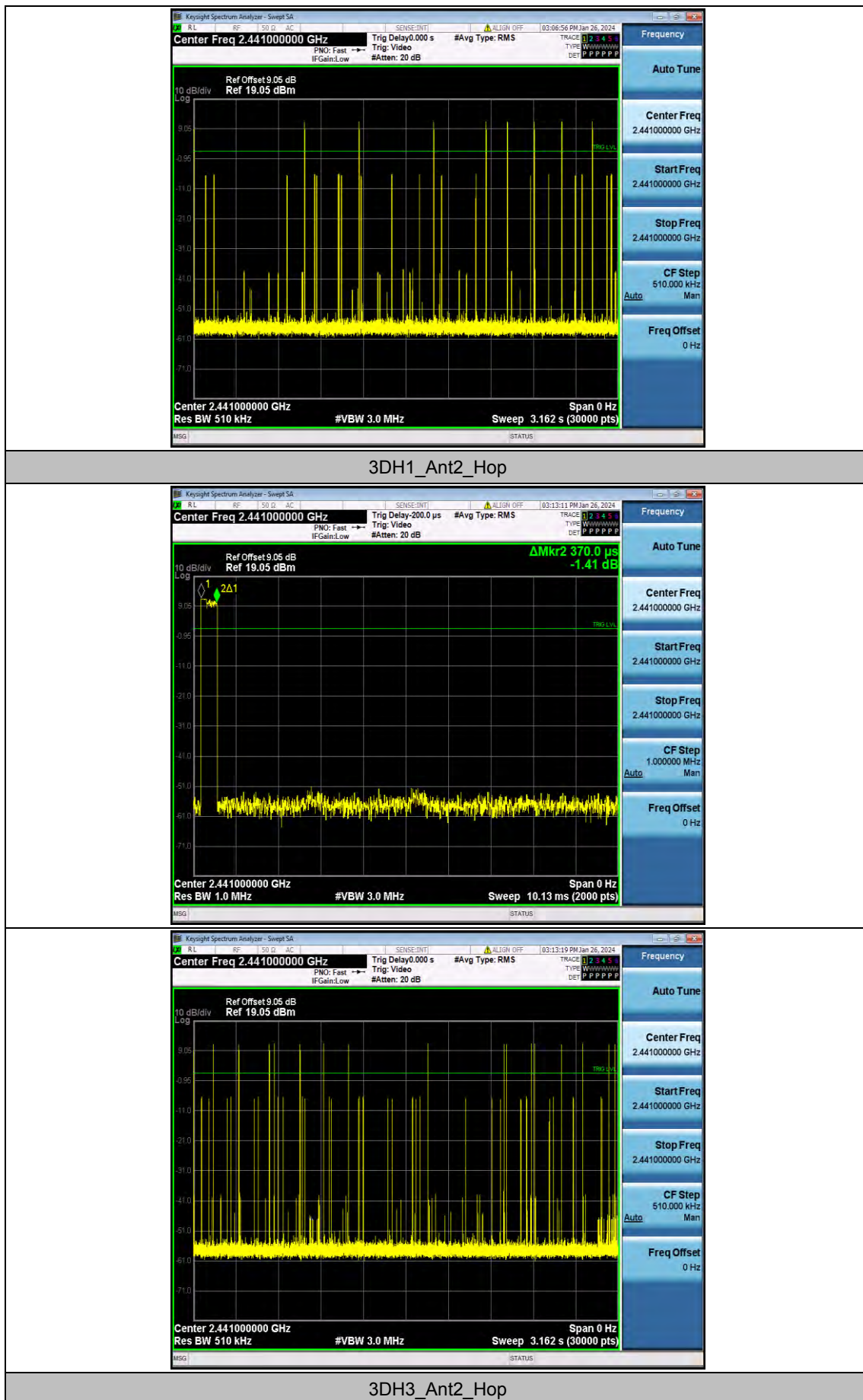
Test Graphs

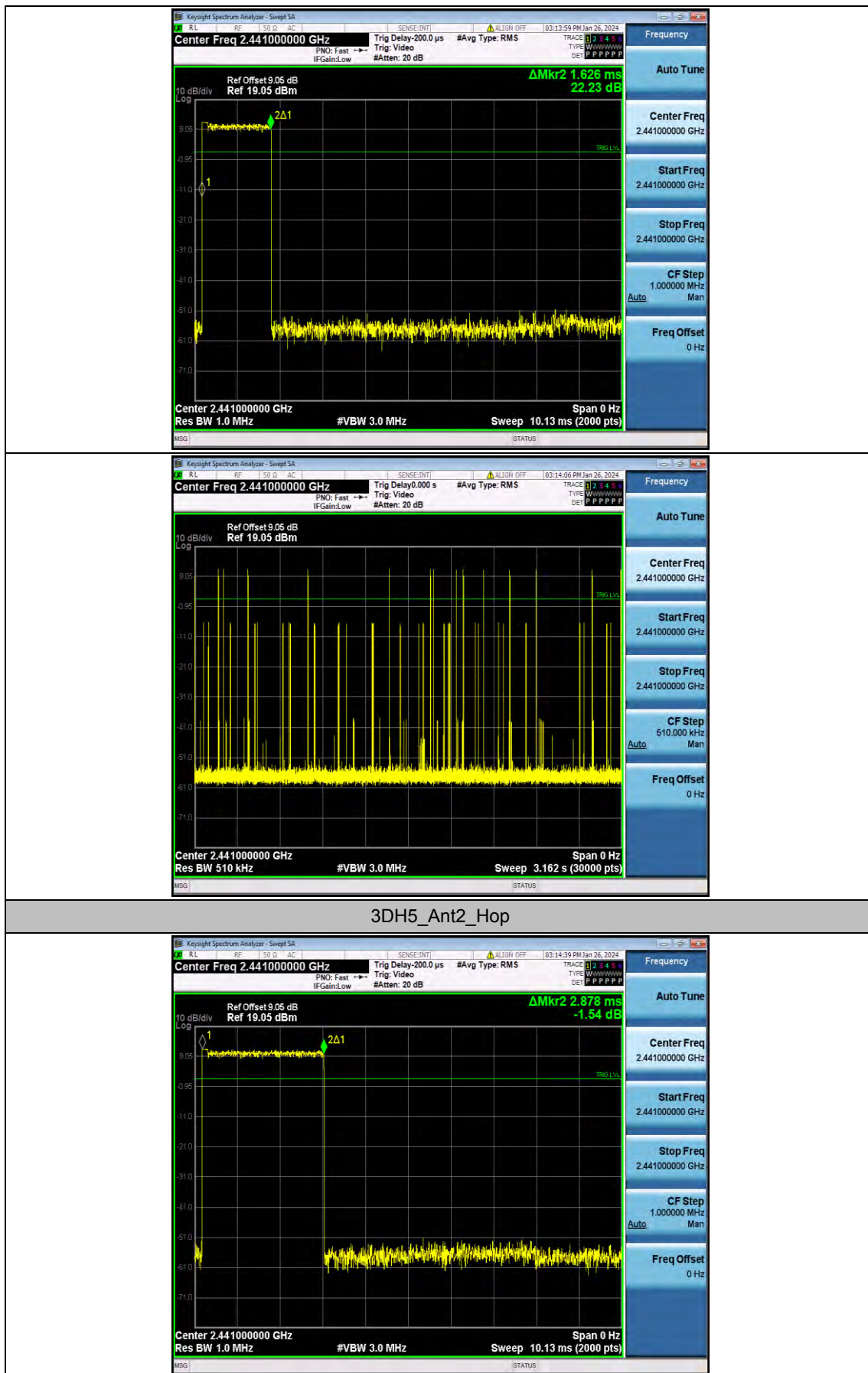


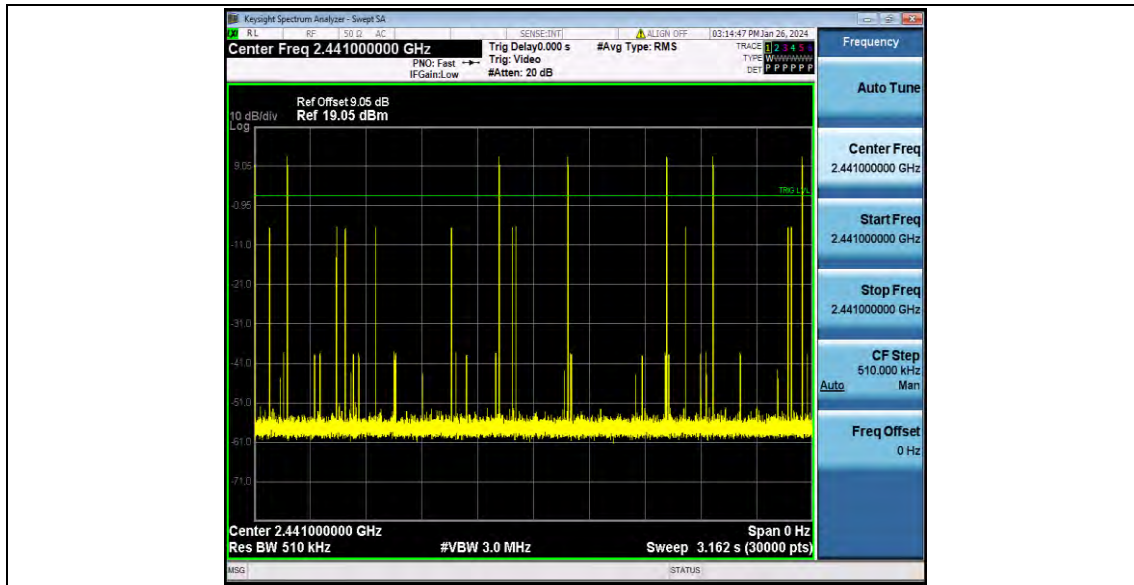










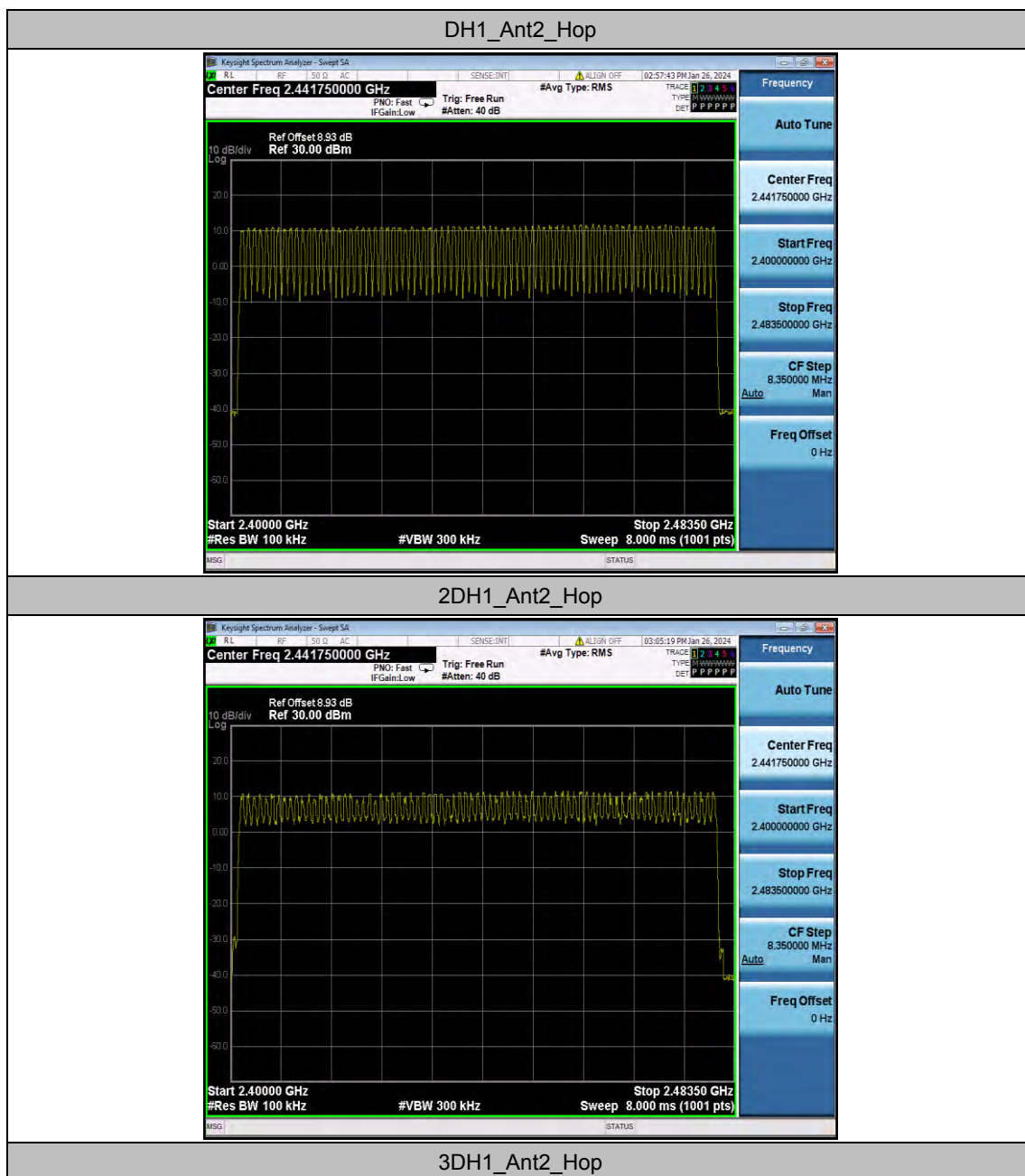


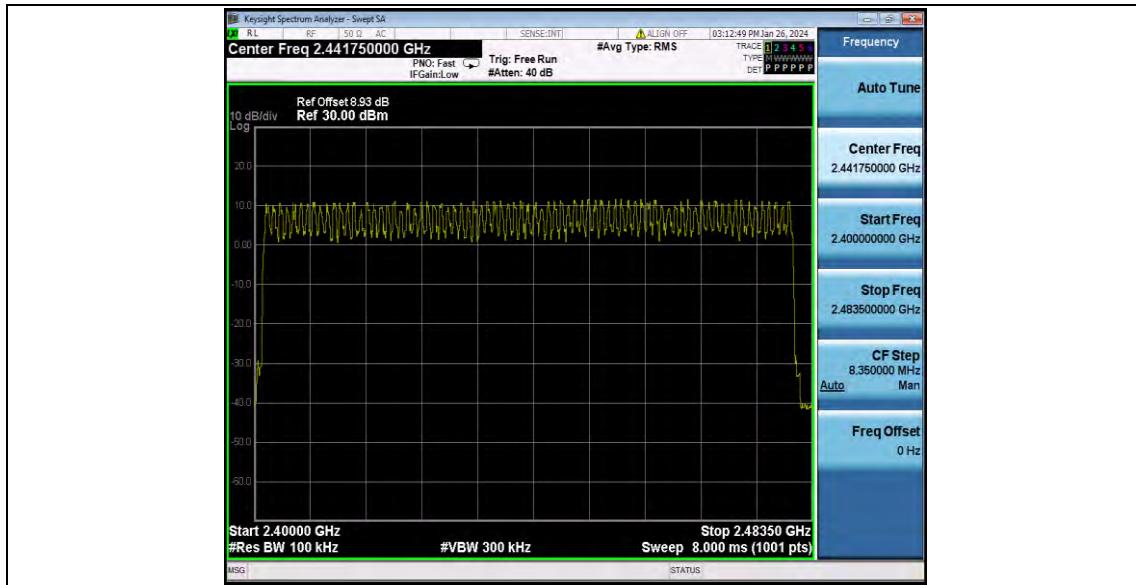
Appendix A.6: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant2	Hop	79	≥15	PASS
2DH1	Ant2	Hop	79	≥15	PASS
3DH1	Ant2	Hop	79	≥15	PASS

Test Graphs





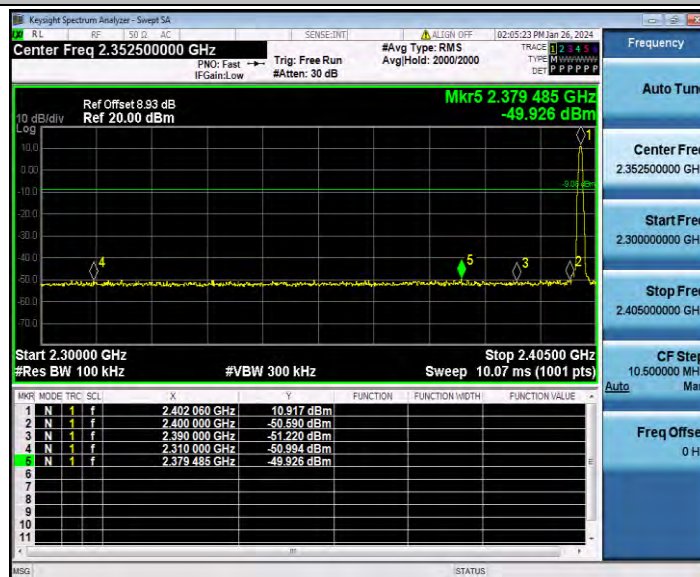
Appendix A.7: Band edge measurements

Test Result

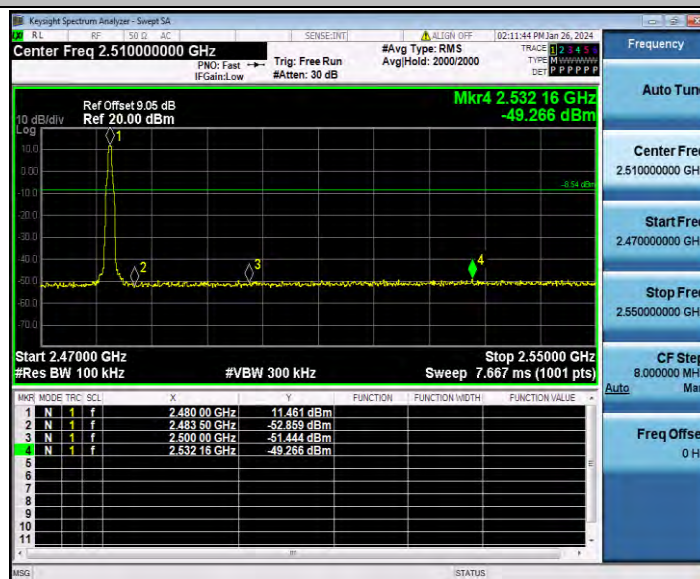
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	Low	2402	10.92	-49.93	≤ -9.08	PASS
		High	2480	11.46	-49.27	≤ -8.54	PASS
		Low	Hop_2402	10.45	-50	≤ -9.55	PASS
		High	Hop_2480	11.30	-48.72	≤ -8.7	PASS
2DH1	Ant2	Low	2402	10.67	-49.54	≤ -9.33	PASS
		High	2480	11.45	-48.37	≤ -8.55	PASS
		Low	Hop_2402	10.36	-49.87	≤ -9.64	PASS
		High	Hop_2480	11.20	-49.11	≤ -8.8	PASS
3DH1	Ant2	Low	2402	10.77	-49.18	≤ -9.23	PASS
		High	2480	11.40	-48.39	≤ -8.6	PASS
		Low	Hop_2402	9.57	-49.38	≤ -10.43	PASS
		High	Hop_2480	11.53	-48.22	≤ -8.47	PASS

Test Graphs

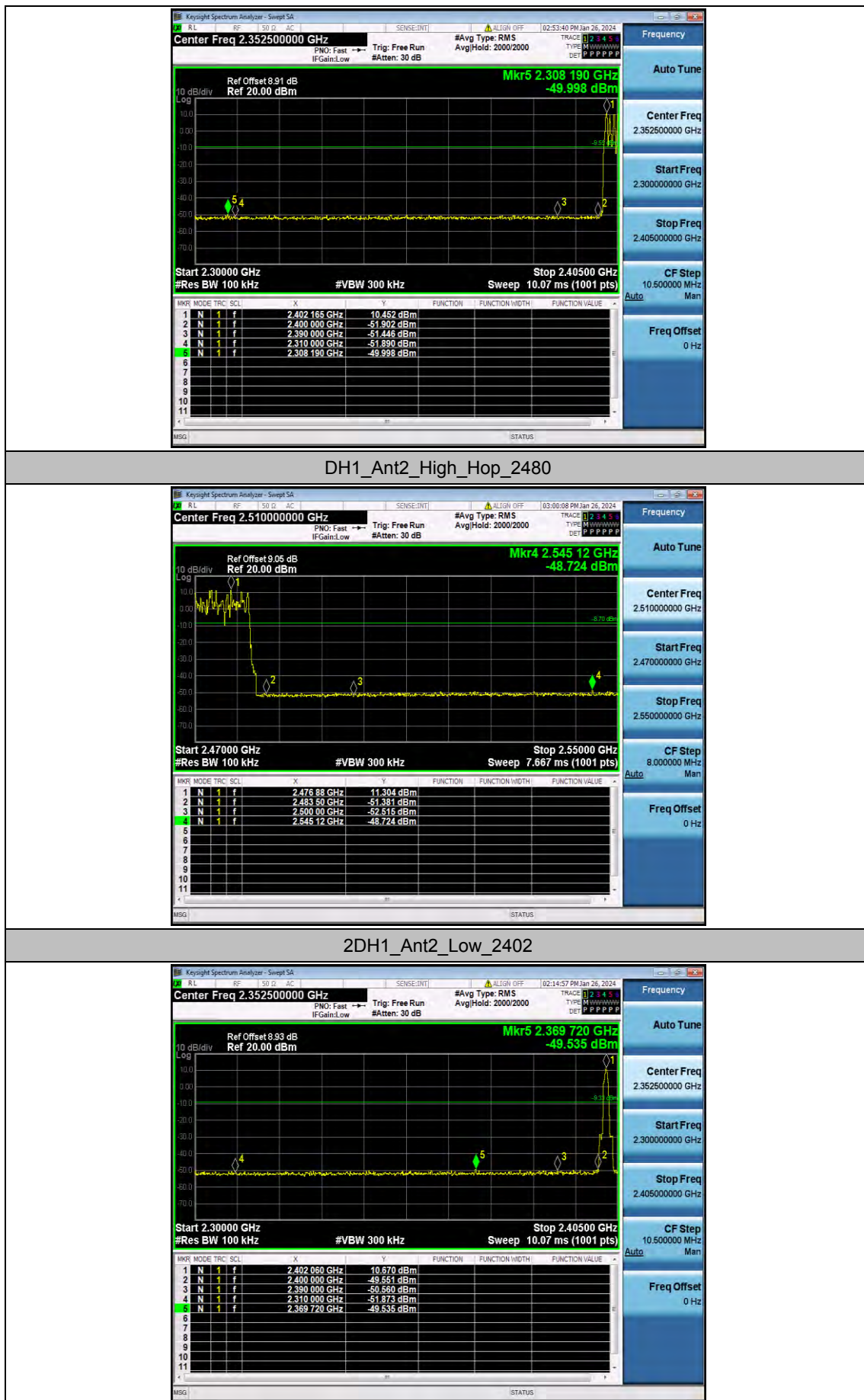
DH1_Ant2_Low_2402



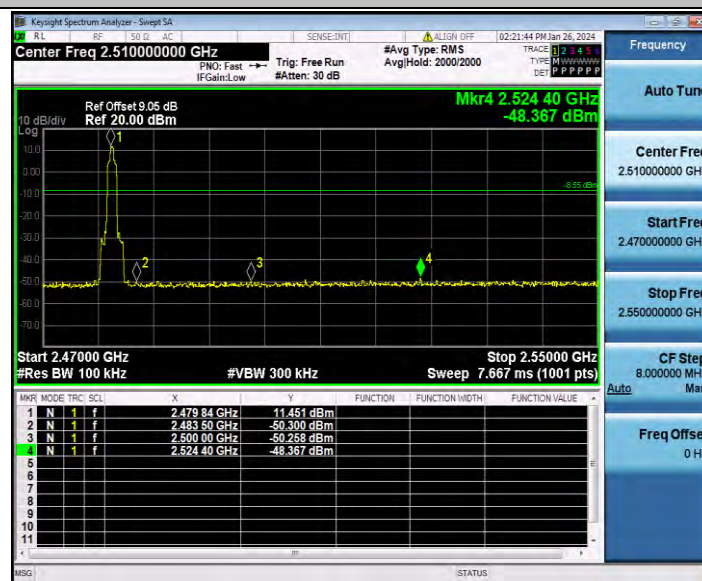
DH1_Ant2_High_2480



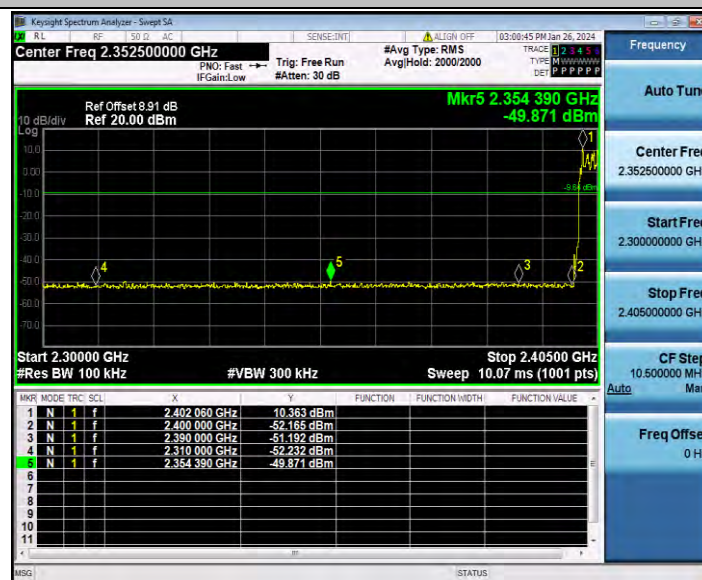
DH1_Ant2_Low_Hop_2402



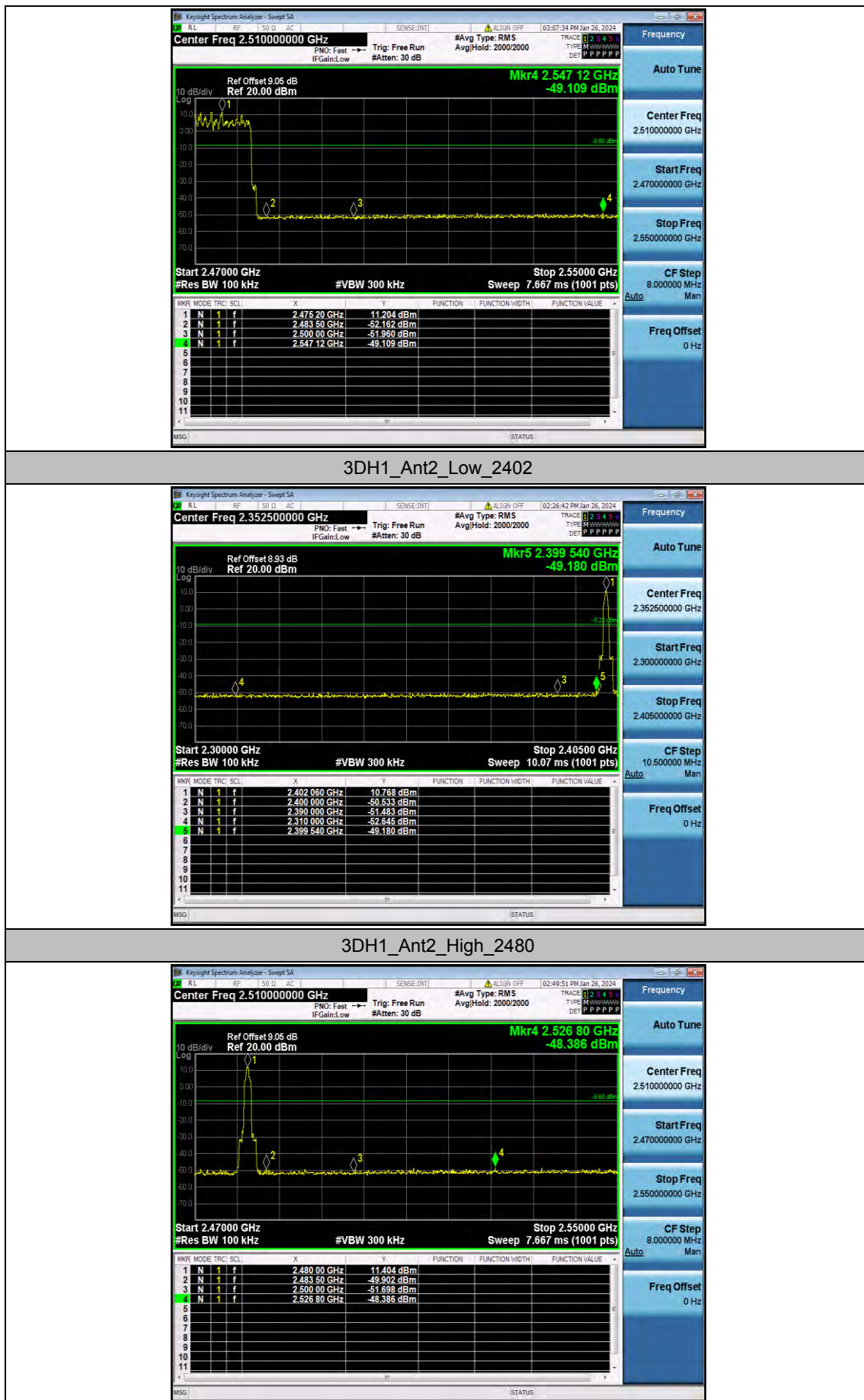
2DH1_Ant2_High_2480



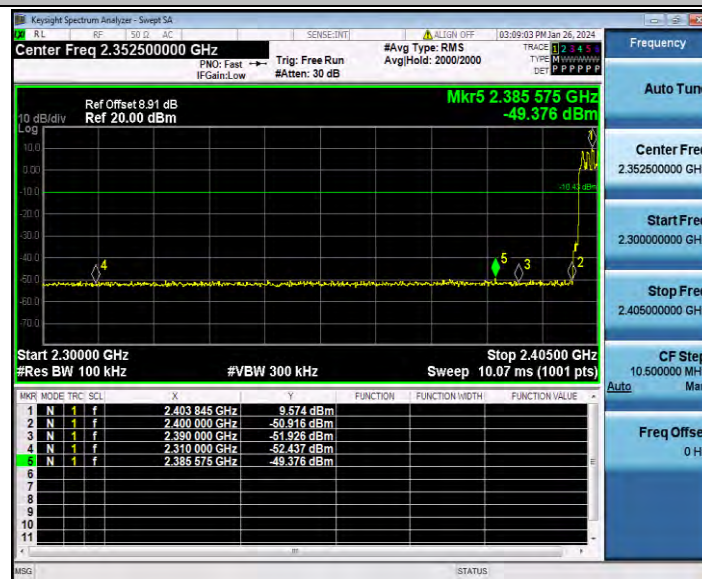
2DH1_Ant2_Low_Hop_2402



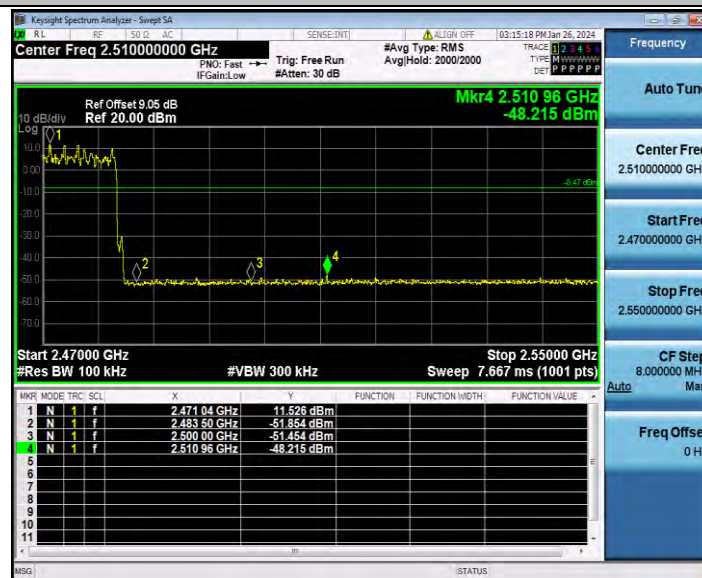
2DH1_Ant2_High_Hop_2480



3DH1_Ant2_Low_Hop_2402



3DH1_Ant2_High_Hop_2480

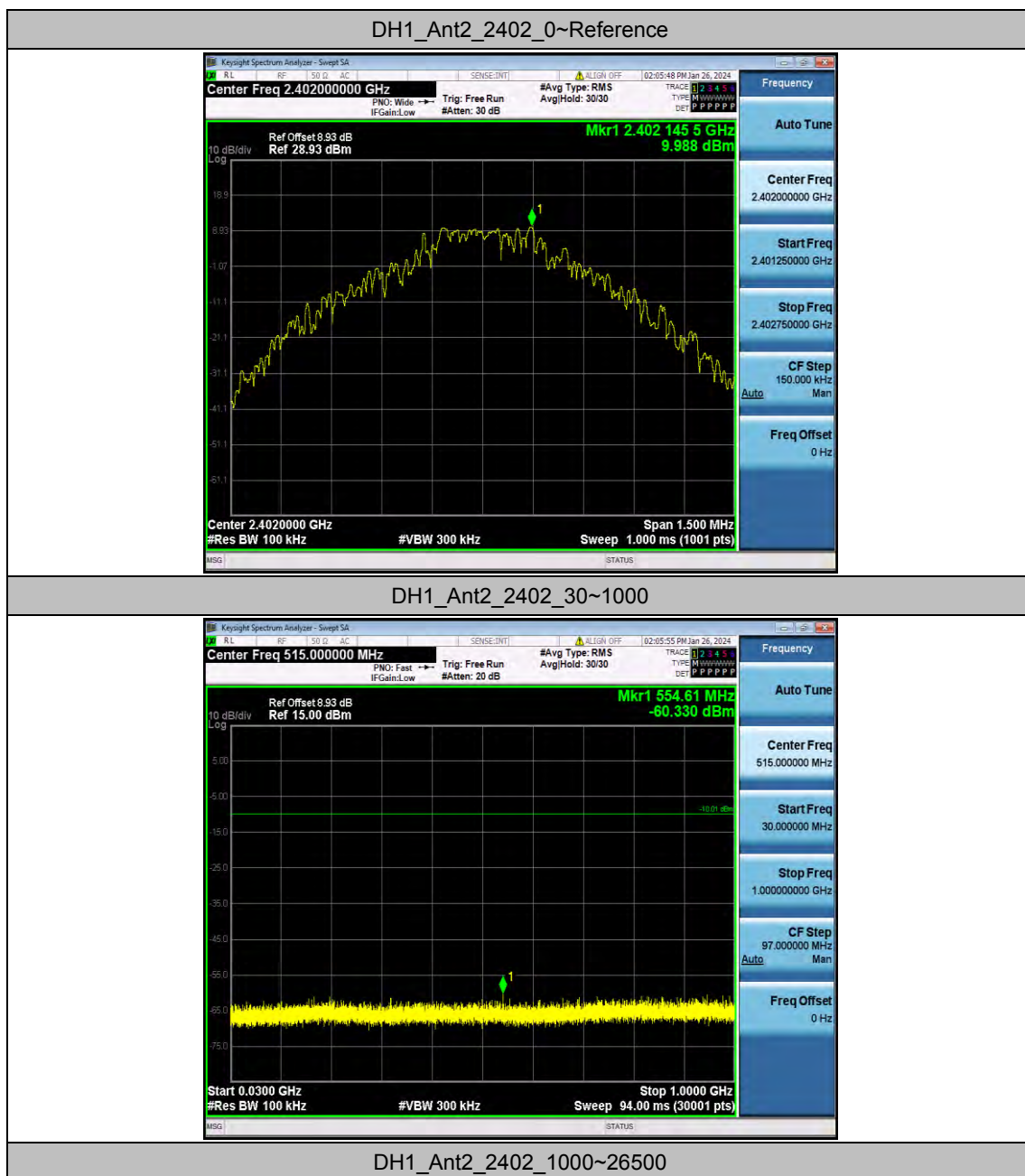


Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	2402	Reference	9.99	9.99	---	PASS
			30~1000	9.99	-60.33	≤ -10.01	PASS
			1000~26500	9.99	-46.69	≤ -10.01	PASS
		2441	Reference	10.96	10.96	---	PASS
			30~1000	10.96	-59.94	≤ -9.04	PASS
			1000~26500	10.96	-47.1	≤ -9.04	PASS
		2480	Reference	10.65	10.65	---	PASS
			30~1000	10.65	-60.52	≤ -9.35	PASS
			1000~26500	10.65	-47.99	≤ -9.35	PASS
2DH1	Ant2	2402	Reference	10.49	10.49	---	PASS
			30~1000	10.49	-60.39	≤ -9.51	PASS
			1000~26500	10.49	-48.04	≤ -9.51	PASS
		2441	Reference	9.21	9.21	---	PASS
			30~1000	9.21	-60.9	≤ -10.79	PASS
			1000~26500	9.21	-48.15	≤ -10.79	PASS
		2480	Reference	11.08	11.08	---	PASS
			30~1000	11.08	-60.5	≤ -8.92	PASS
			1000~26500	11.08	-48.02	≤ -8.92	PASS
3DH1	Ant2	2402	Reference	10.66	10.66	---	PASS
			30~1000	10.66	-59.71	≤ -9.34	PASS
			1000~26500	10.66	-48.6	≤ -9.34	PASS
		2441	Reference	10.83	10.83	---	PASS
			30~1000	10.83	-59.81	≤ -9.17	PASS
			1000~26500	10.83	-47.95	≤ -9.17	PASS
		2480	Reference	10.54	10.54	---	PASS
			30~1000	10.54	-60.68	≤ -9.46	PASS
			1000~26500	10.54	-48.23	≤ -9.46	PASS

Test Graphs

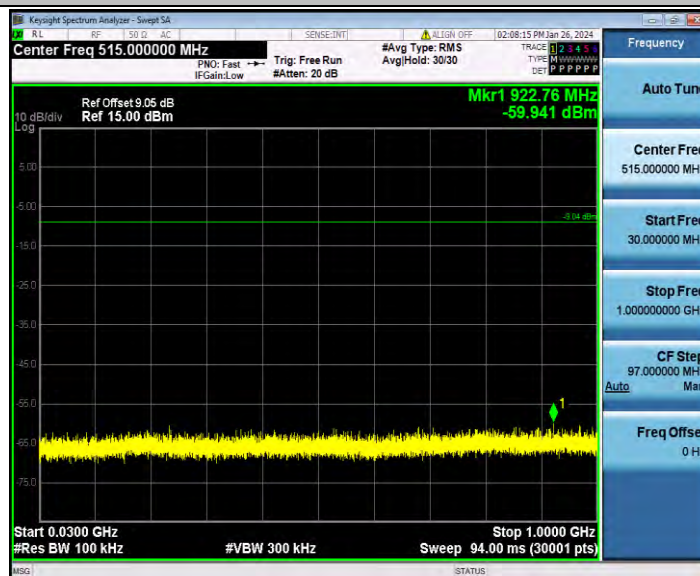




DH1_Ant2_2441_0~Reference



DH1_Ant2_2441_30~1000



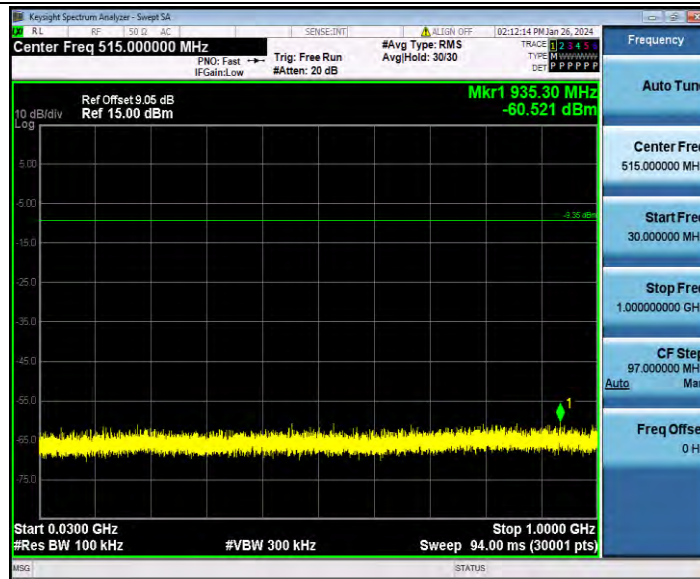
DH1_Ant2_2441_1000~26500



DH1_Ant2_2480_0~Reference



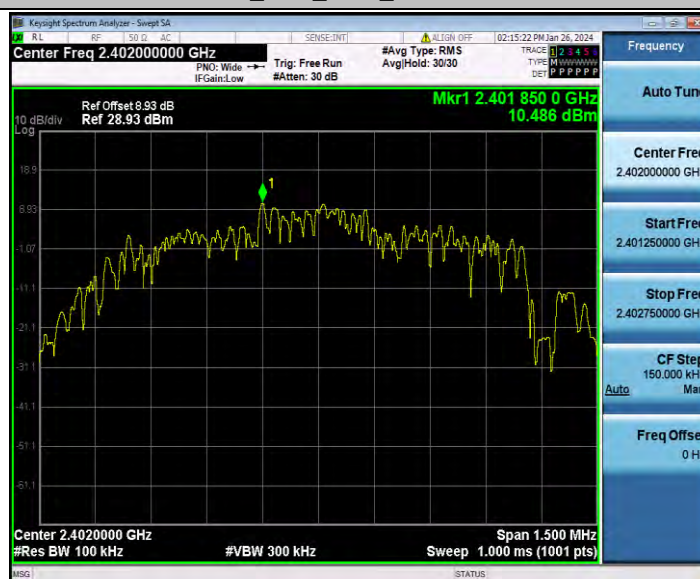
DH1_Ant2_2480_30~1000

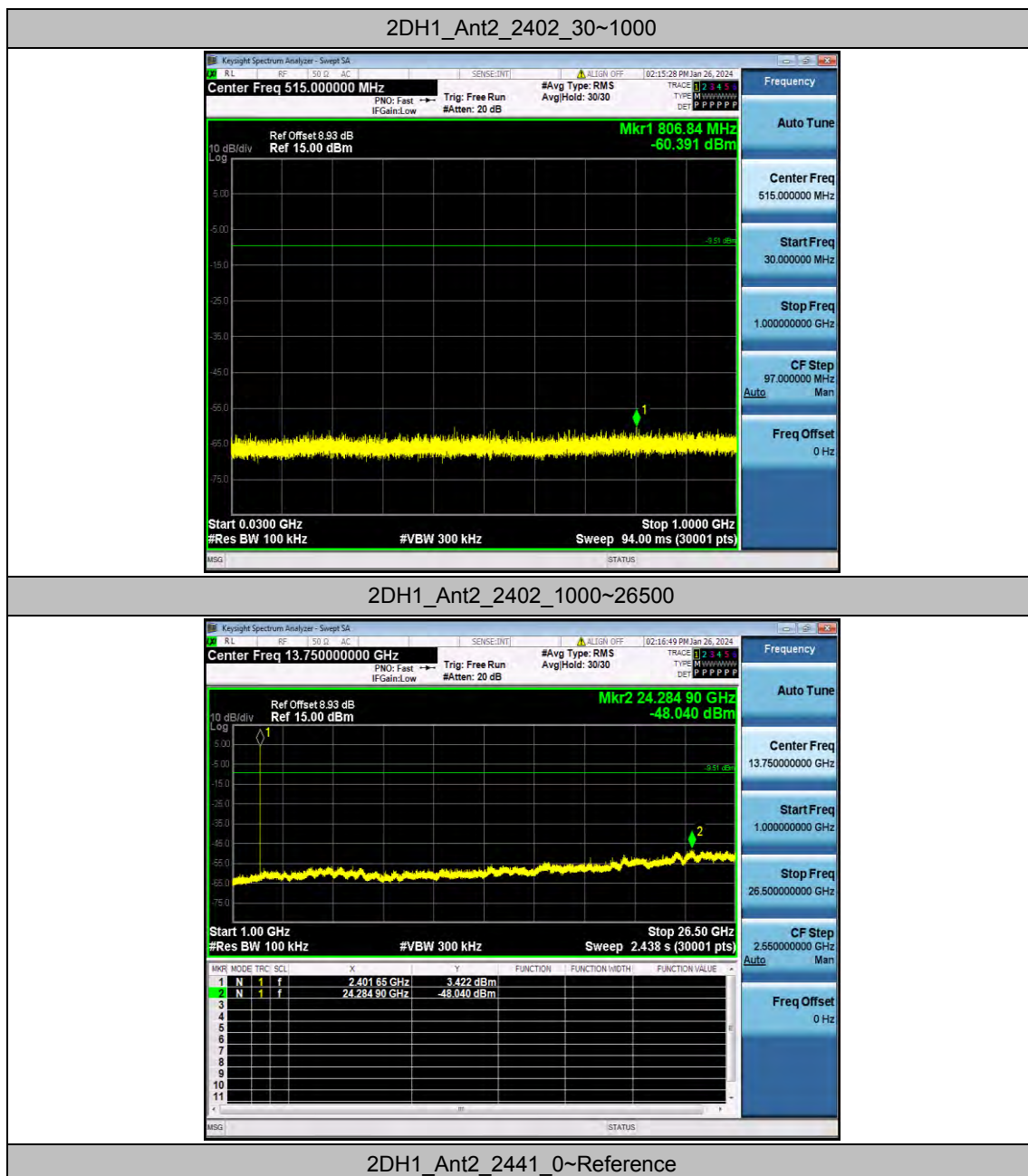


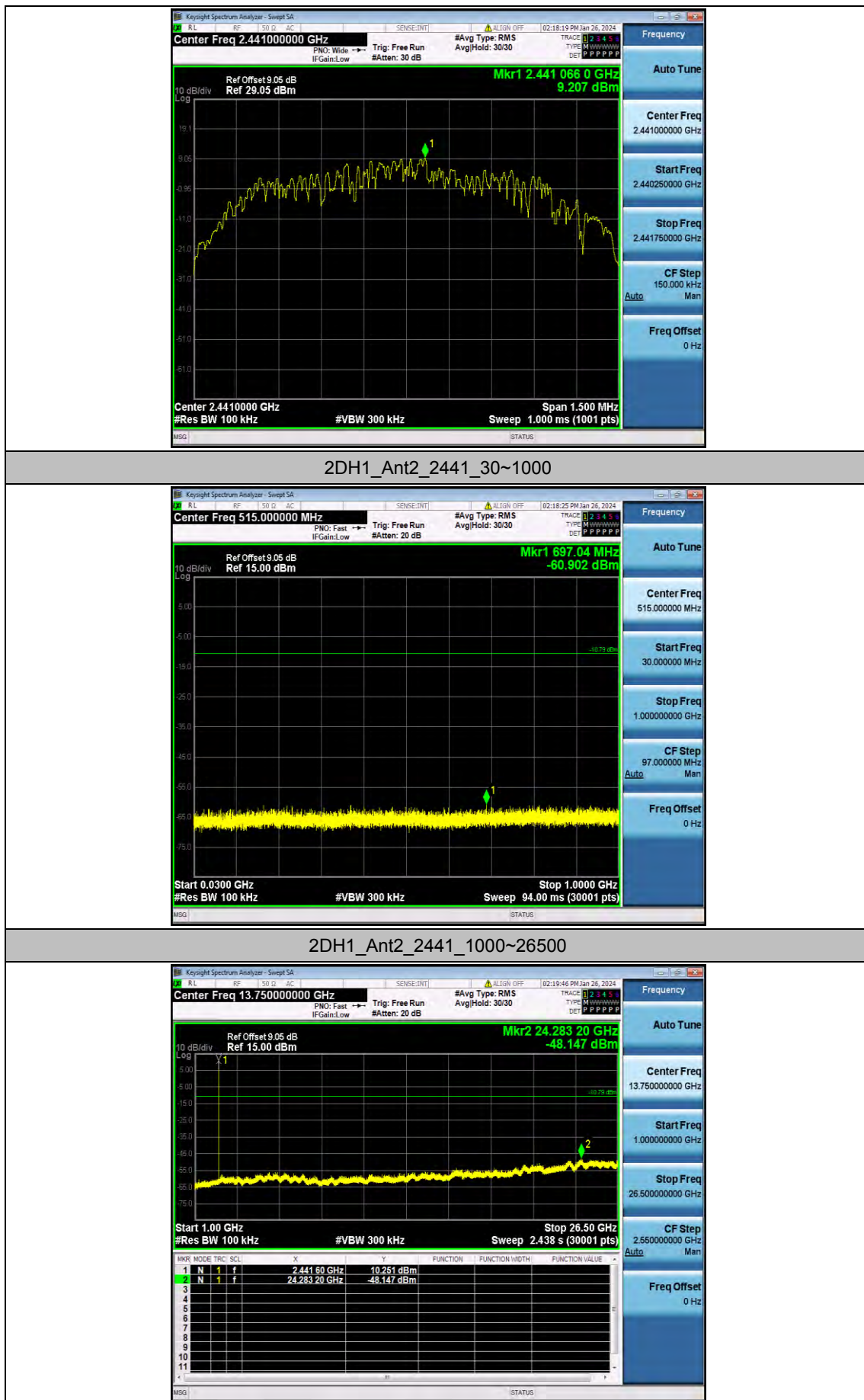
DH1_Ant2_2480_1000~26500



2DH1_Ant2_2402_0~Reference



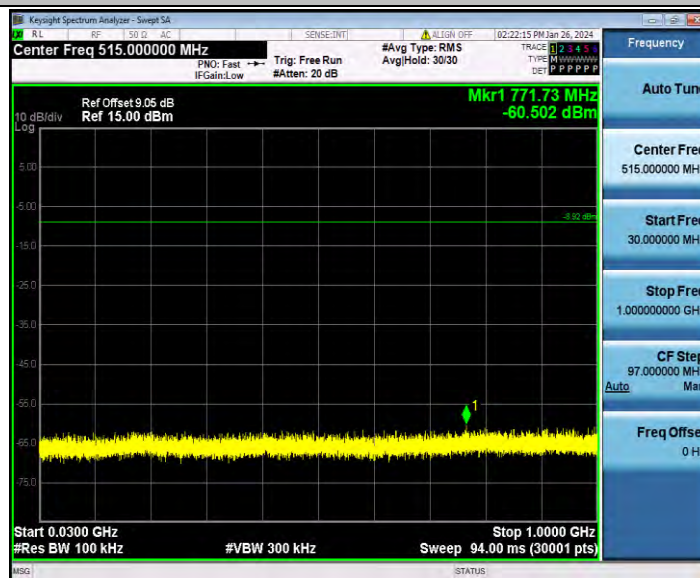




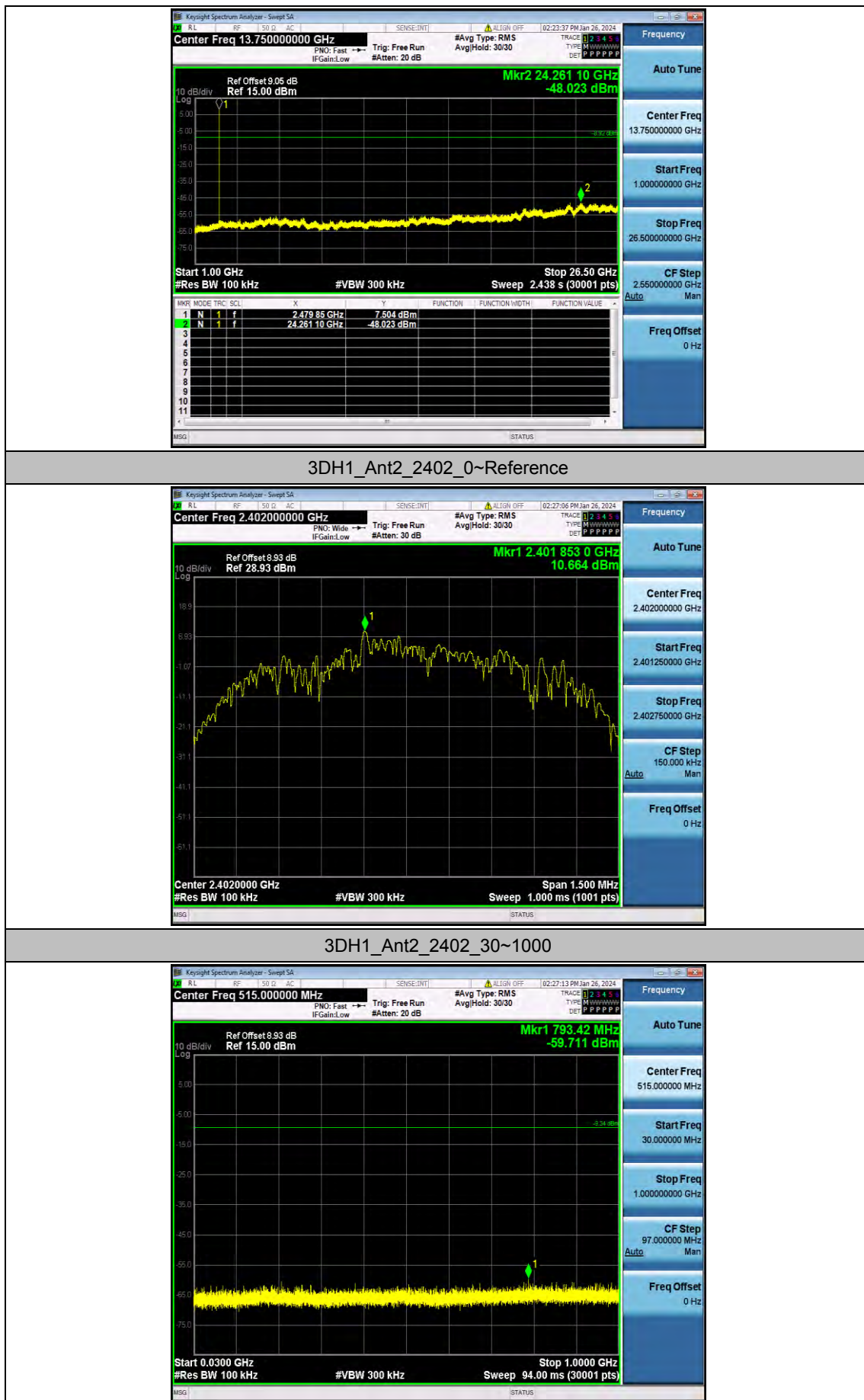
2DH1_Ant2_2480_0~Reference



2DH1_Ant2_2480_30~1000



2DH1_Ant2_2480_1000~26500



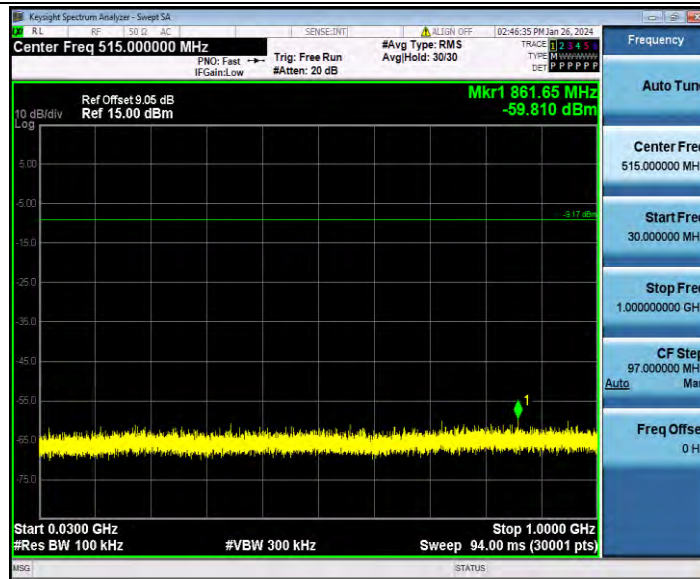
3DH1_Ant2_2402_1000~26500



3DH1_Ant2_2441_0~Reference



3DH1_Ant2_2441_30~1000



3DH1_Ant2_2441_1000~26500



3DH1_Ant2_2480_0~Reference



