

Case No. : <u>GTS20250313007-8-01</u>	
Ambient Condition: <u>22</u> °C, <u>49</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.4.01</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	Ant1	2402	0.789	2401.598	2402.387	---	---
		2441	0.837	2440.556	2441.393	---	---
		2480	0.861	2479.547	2480.408	---	---
2DH1	Ant1	2402	1.236	2401.358	2402.594	---	---
		2441	1.203	2440.385	2441.588	---	---
		2480	1.197	2479.382	2480.579	---	---
3DH1	Ant1	2402	1.230	2401.388	2402.618	---	---
		2441	1.212	2440.403	2441.615	---	---
		2480	1.227	2479.391	2480.618	---	---

Test Graphs

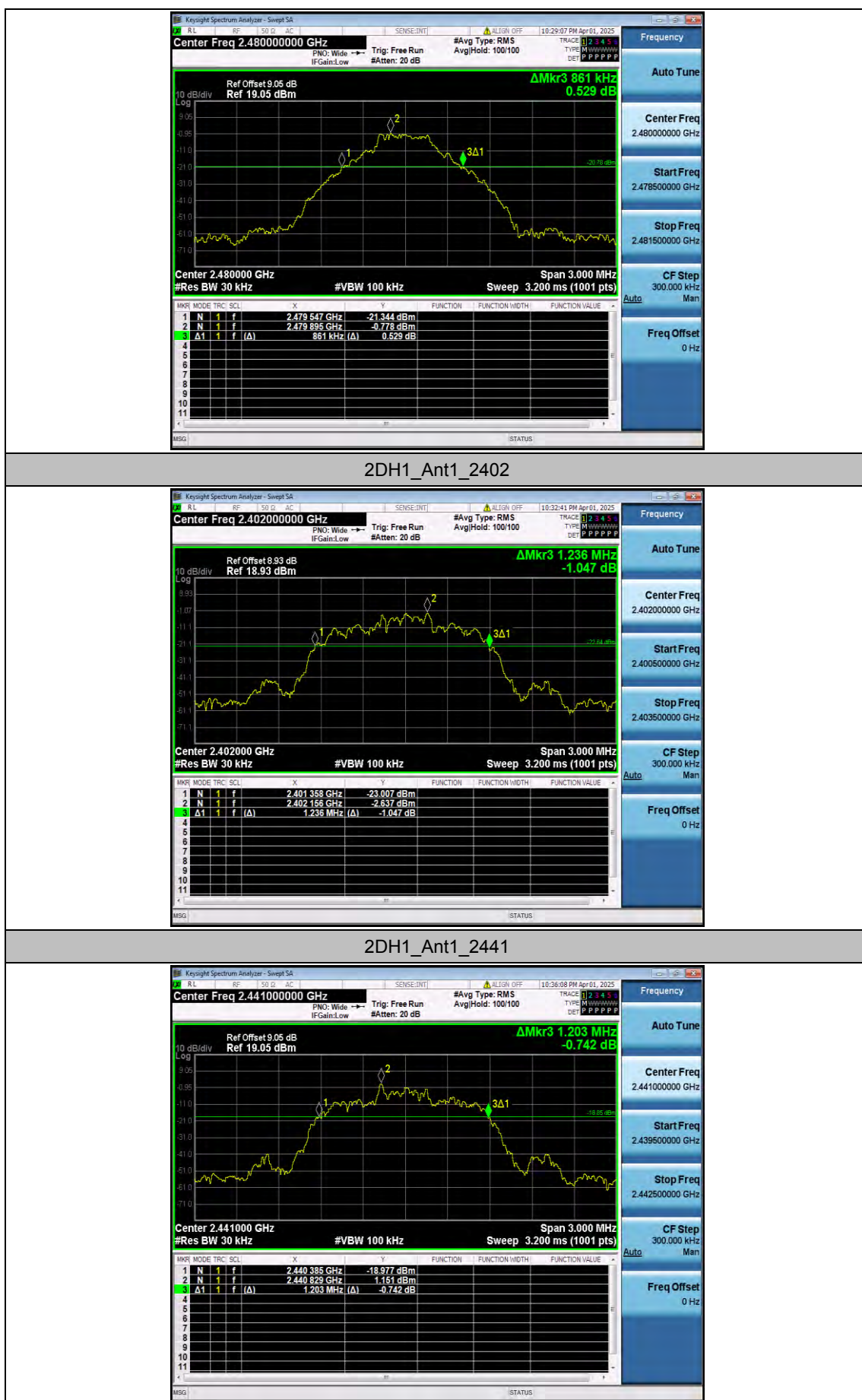
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3D11_Ant1_2480



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.71775	2401.6241	2402.3418	---	---
		2441	0.71329	2440.6257	2441.3390	---	---
		2480	0.71613	2479.6252	2480.3414	---	---
2DH1	Ant1	2402	1.1439	2401.4195	2402.5634	---	---
		2441	1.1326	2440.4207	2441.5533	---	---
		2480	1.1285	2479.4214	2480.5499	---	---
3DH1	Ant1	2402	1.1294	2401.4331	2402.5625	---	---
		2441	1.1262	2440.4361	2441.5623	---	---
		2480	1.1297	2479.4348	2480.5645	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



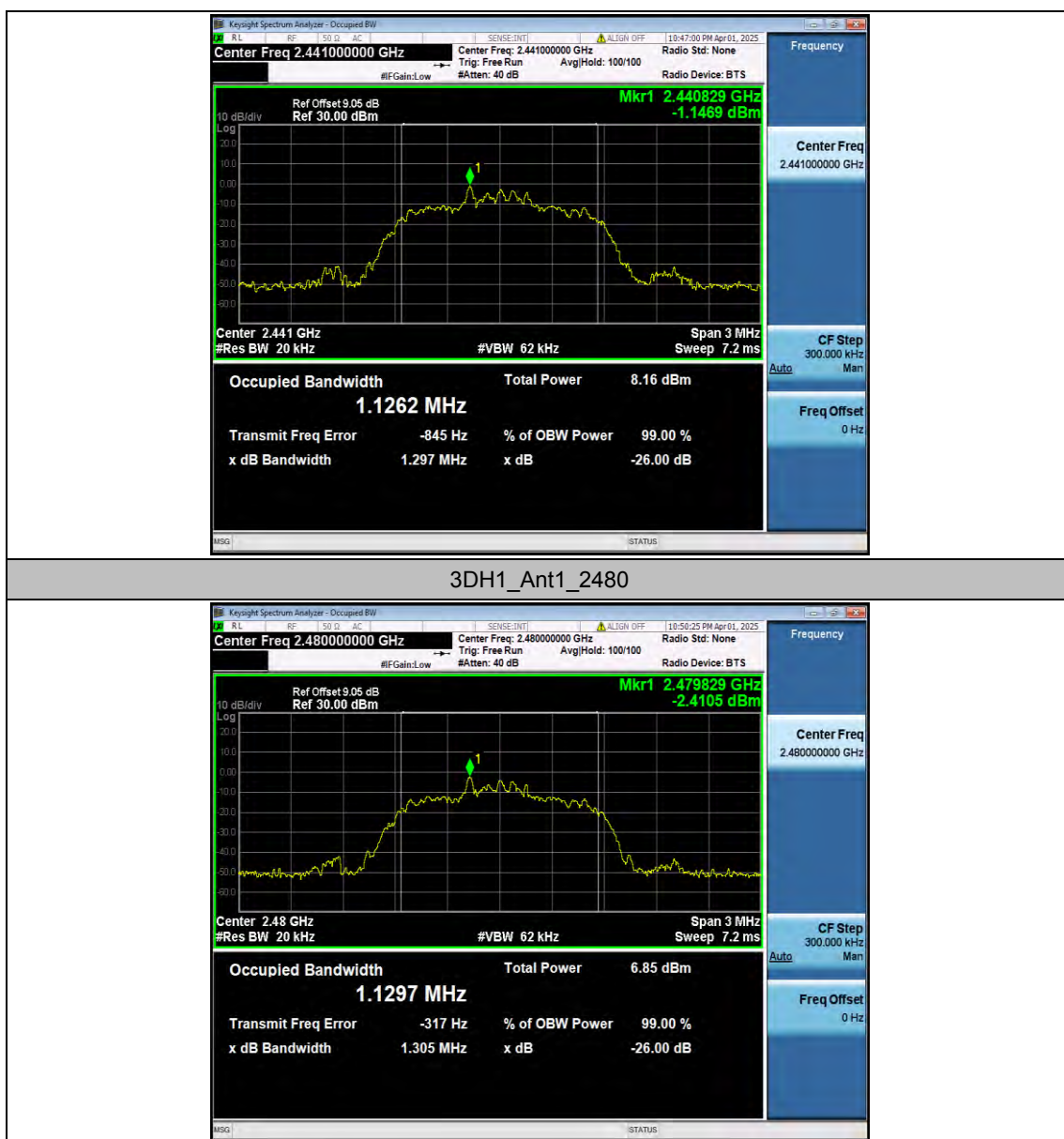
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



Appendix A.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	2.26	≤ 20.97	PASS
		2441	4.28	≤ 20.97	PASS
		2480	2.90	≤ 20.97	PASS
2DH1	Ant1	2402	1.37	≤ 20.97	PASS
		2441	3.32	≤ 20.97	PASS
		2480	2.19	≤ 20.97	PASS
3DH1	Ant1	2402	1.12	≤ 20.97	PASS
		2441	2.98	≤ 20.97	PASS
		2480	1.78	≤ 20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.174	≥ 0.574	PASS
		Hop_2441	1.008	≥ 0.574	PASS
		Hop_2480	0.844	≥ 0.574	PASS
2DH1	Ant1	Hop_2402	0.976	≥ 0.824	PASS
		Hop_2441	0.99	≥ 0.824	PASS
		Hop_2480	1.01	≥ 0.824	PASS
3DH1	Ant1	Hop_2402	1.02	≥ 0.820	PASS
		Hop_2441	1.158	≥ 0.820	PASS
		Hop_2480	1.014	≥ 0.820	PASS

Test Graphs

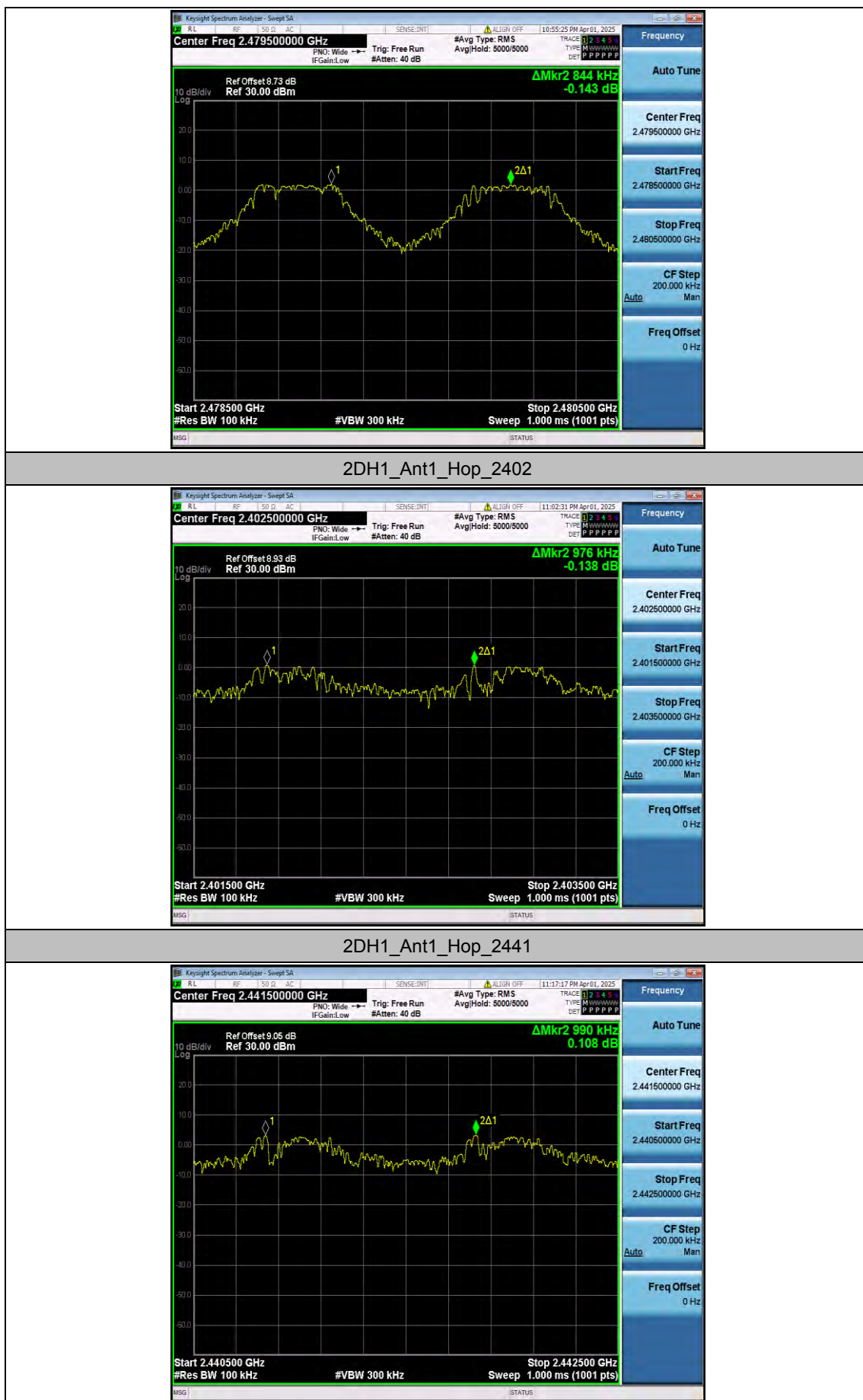
DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



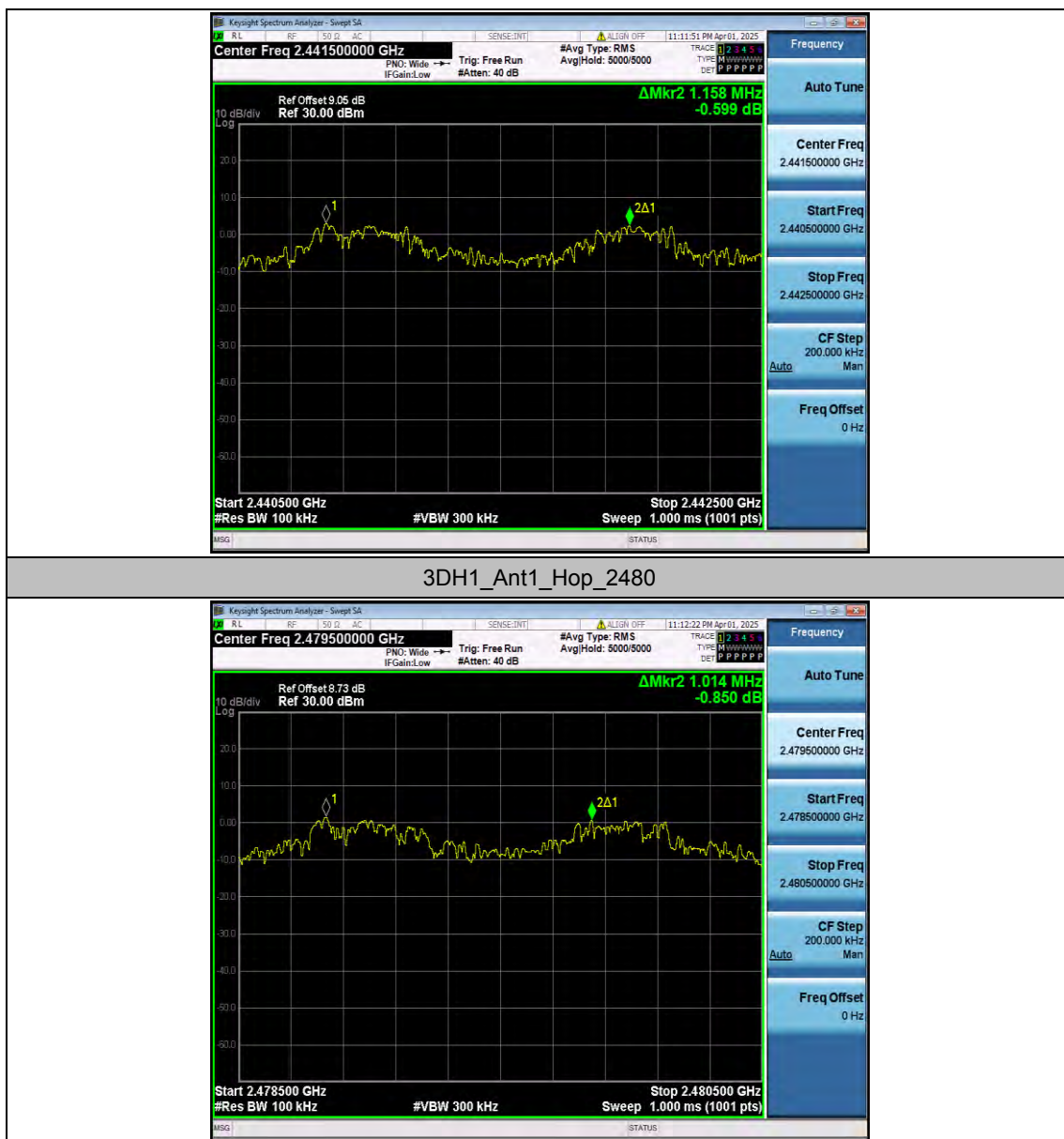
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

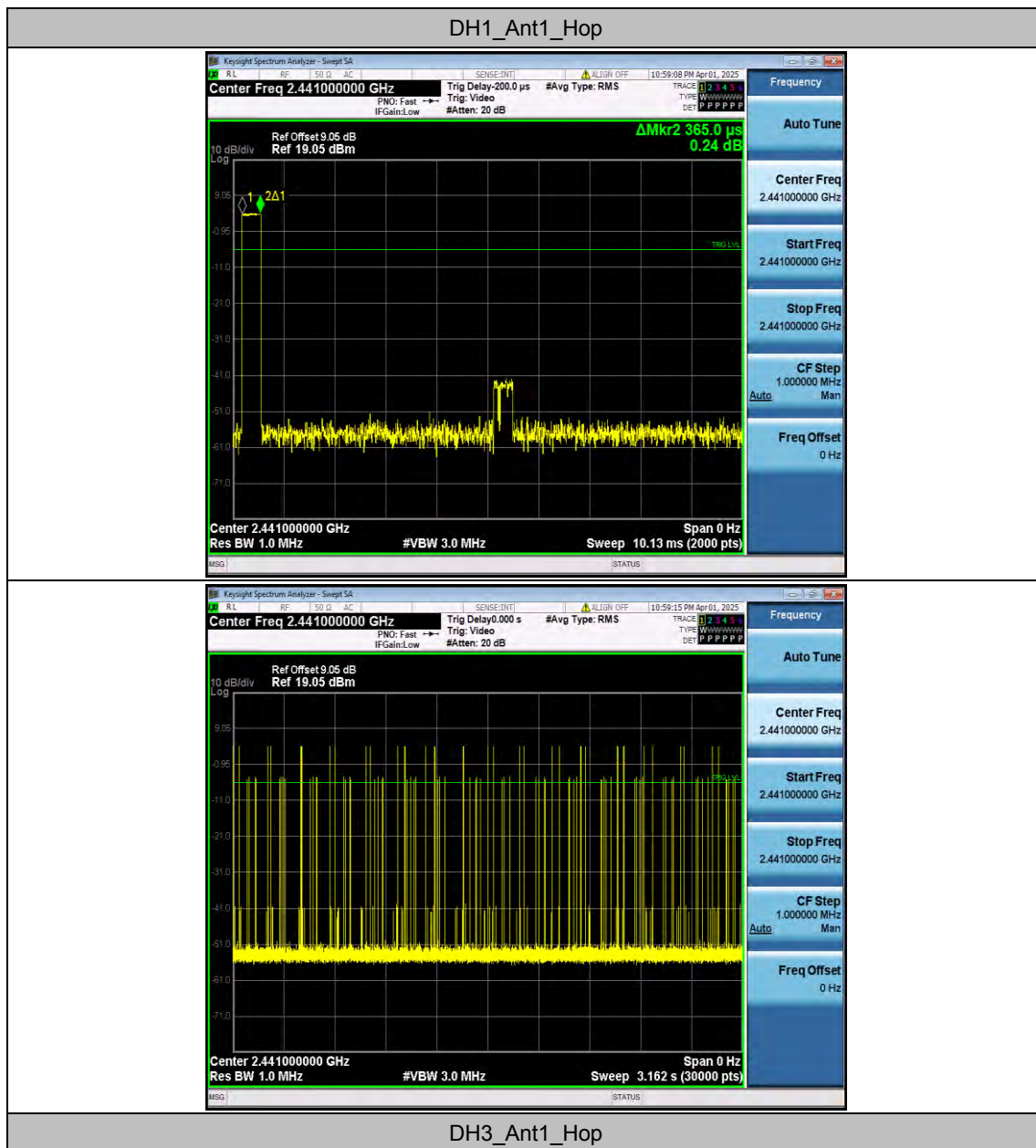


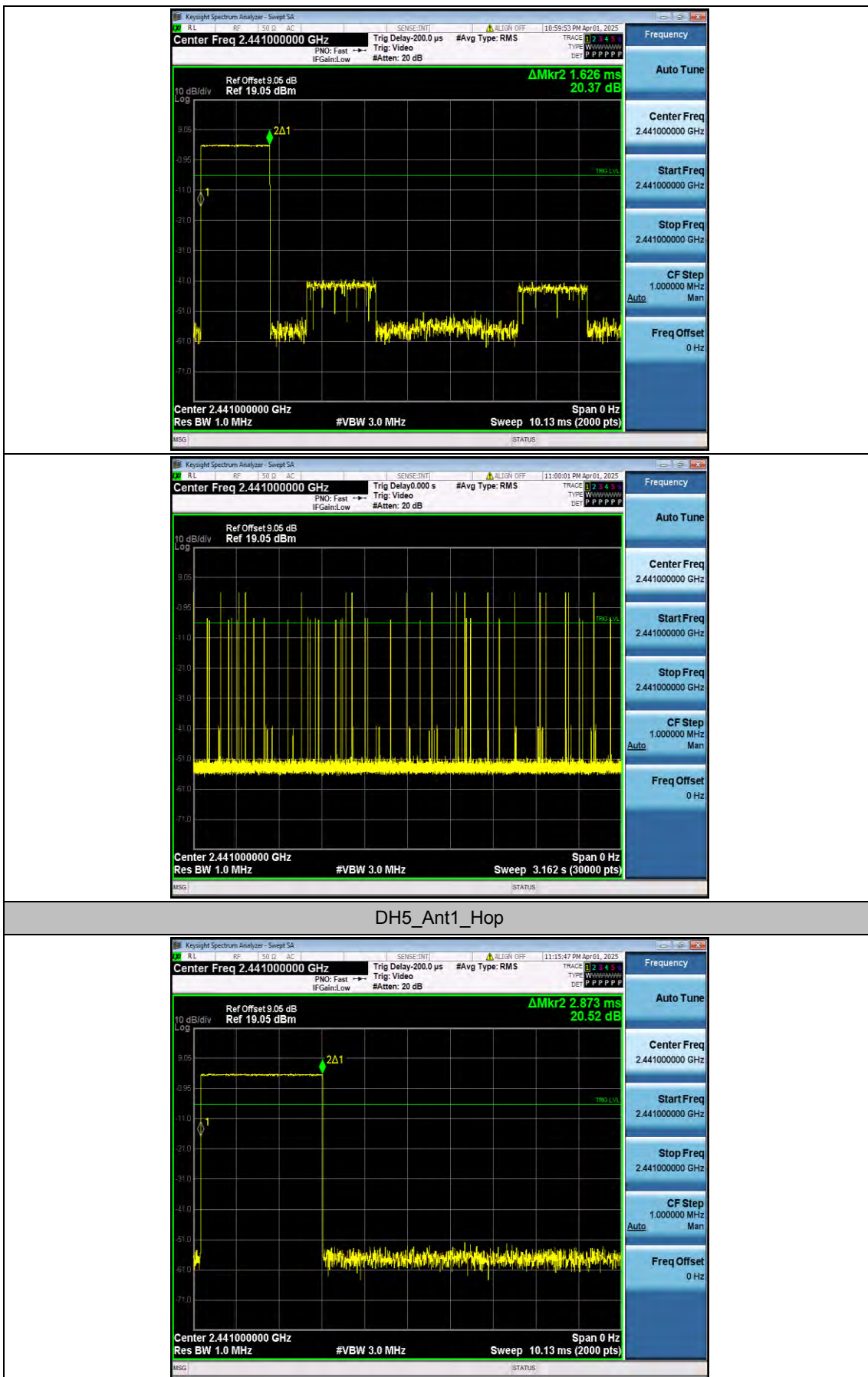
Appendix A.5: Time of occupancy

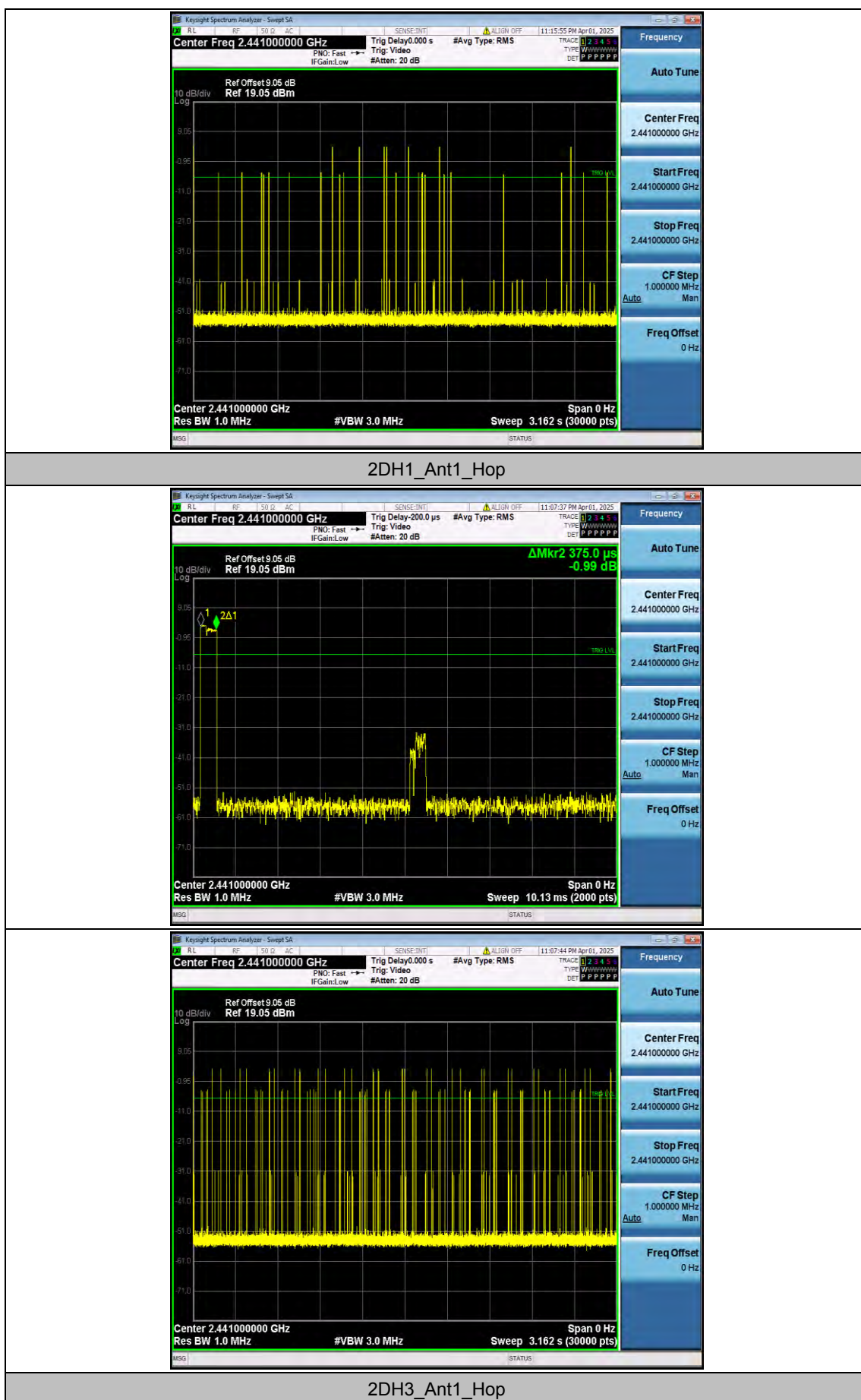
Test Result

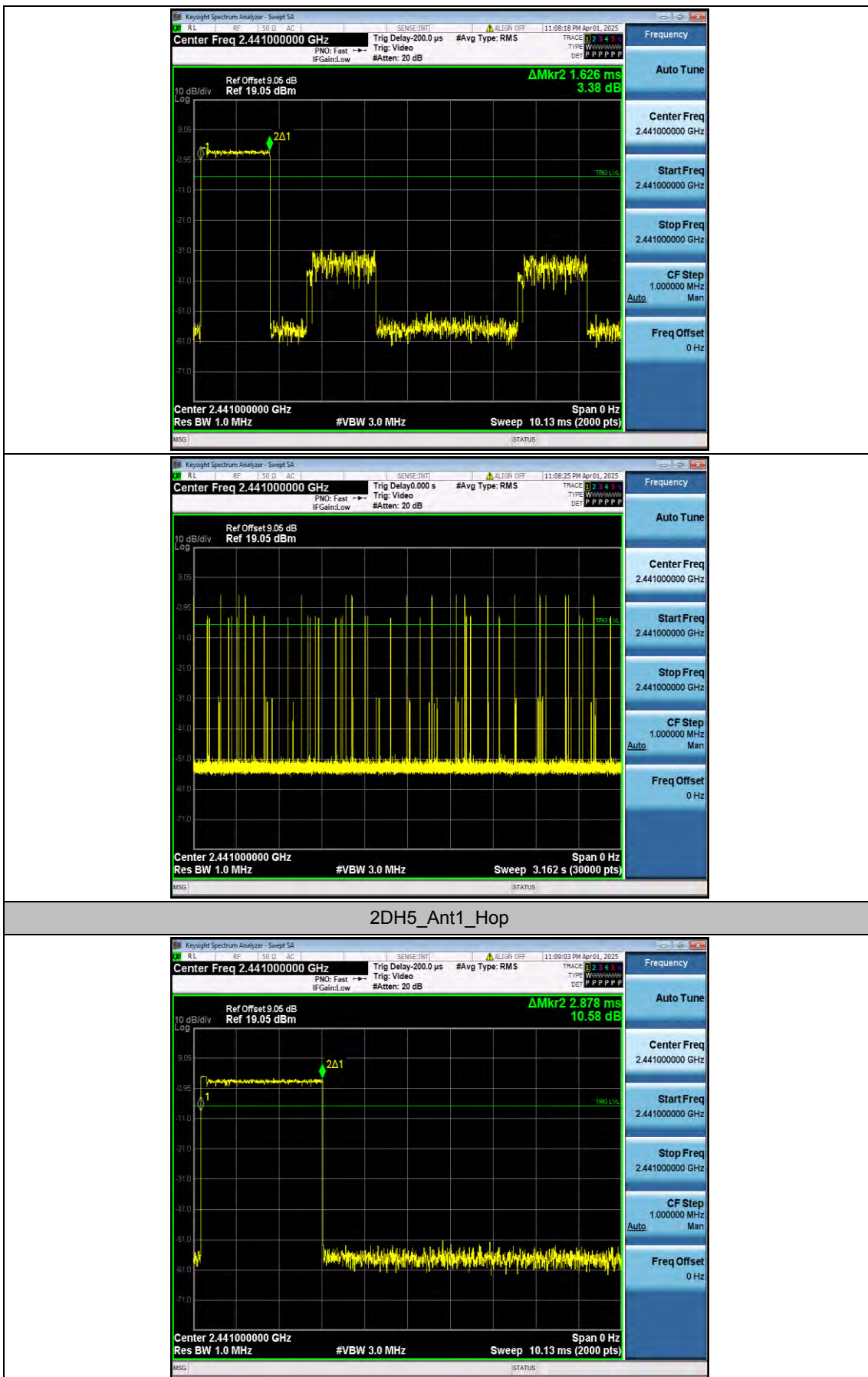
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.365	320	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.626	180	0.293	≤0.4	PASS
DH5	Ant1	Hop	2.873	80	0.23	≤0.4	PASS
2DH1	Ant1	Hop	0.375	320	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.626	180	0.293	≤0.4	PASS
2DH5	Ant1	Hop	2.878	80	0.23	≤0.4	PASS
3DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.626	180	0.293	≤0.4	PASS
3DH5	Ant1	Hop	2.878	110	0.317	≤0.4	PASS

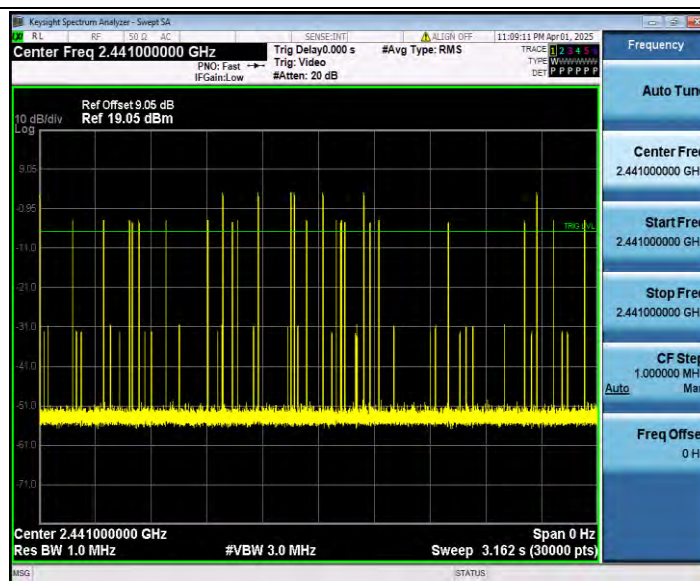
Test Graphs



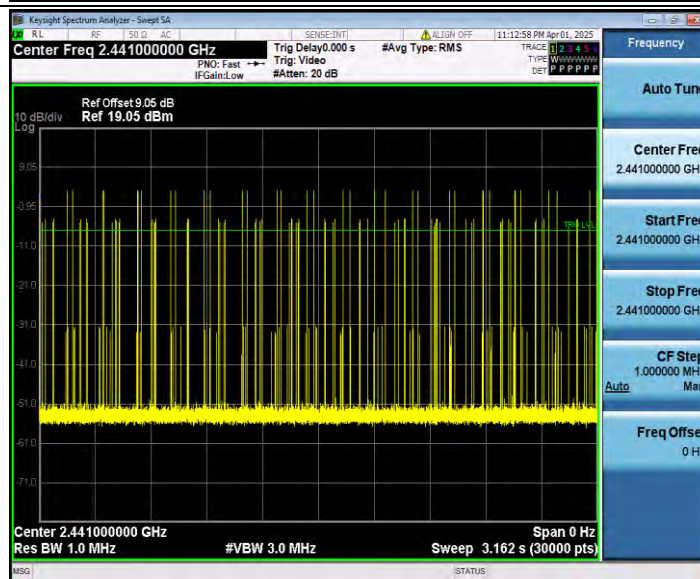
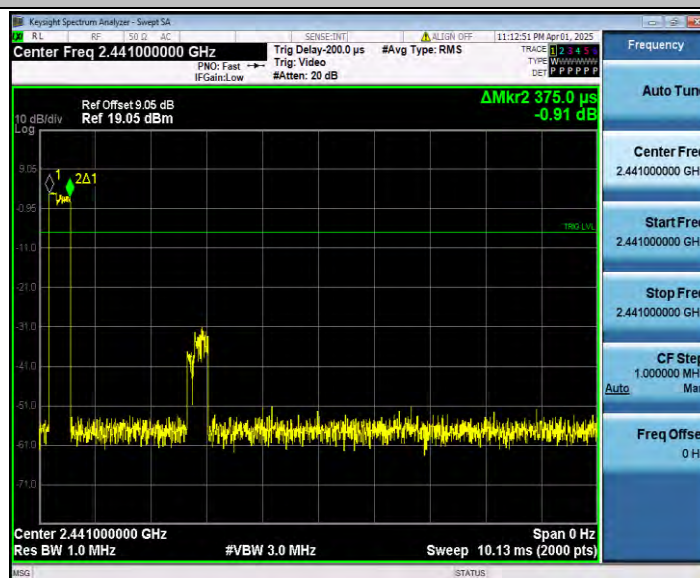




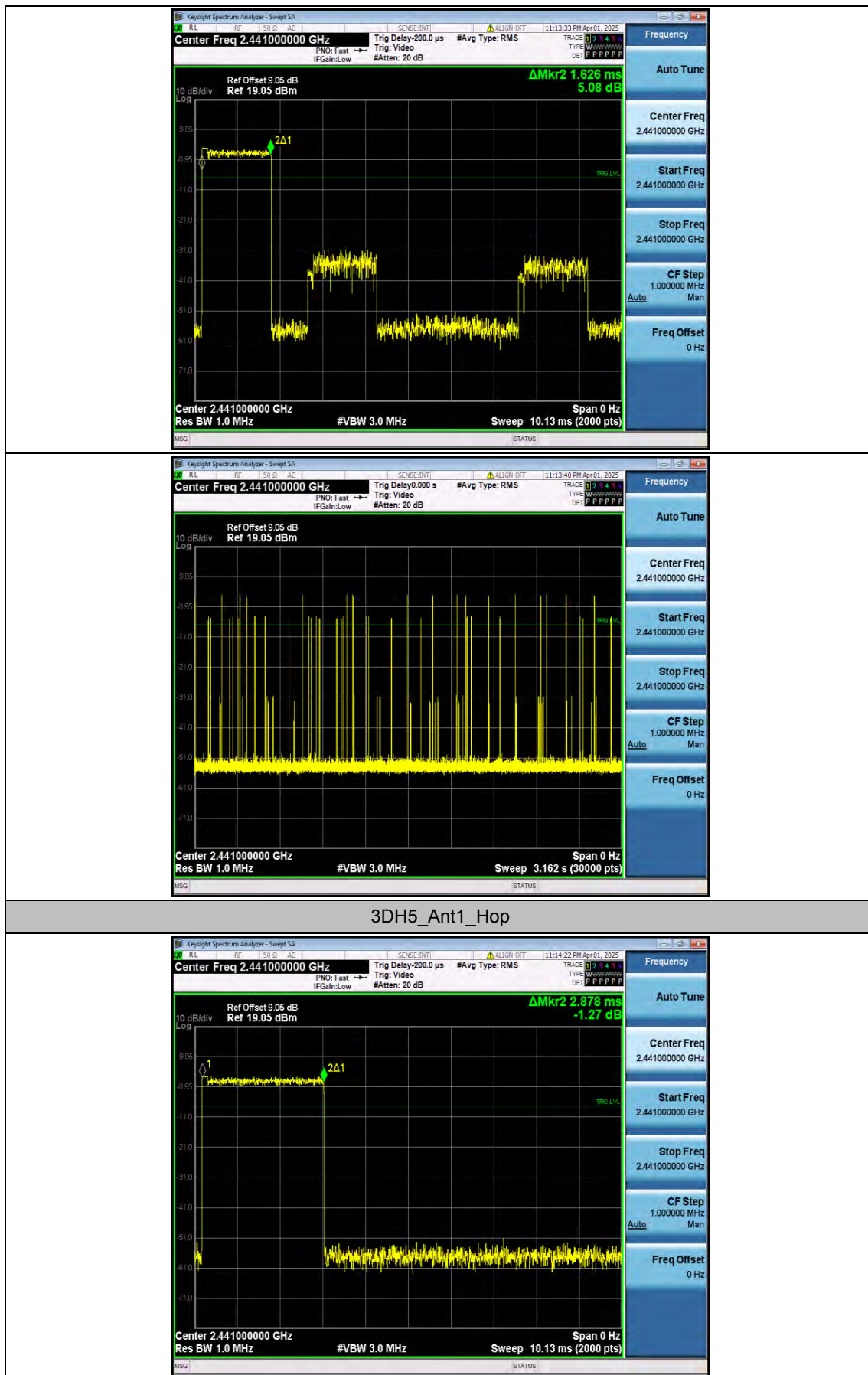


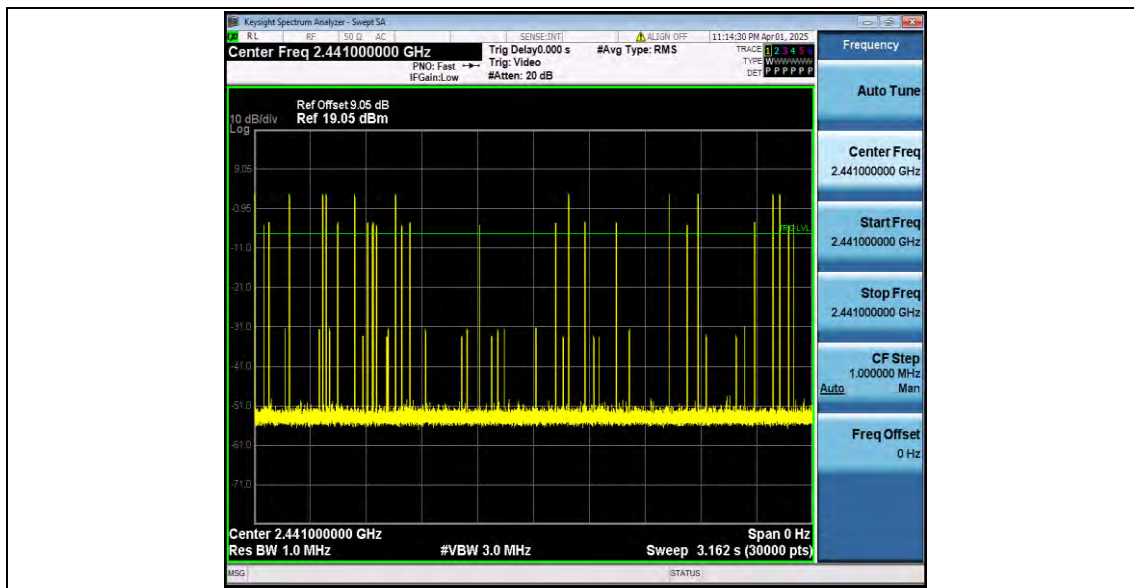


3DH1_Ant1_Hop



3DH3_Ant1_Hop



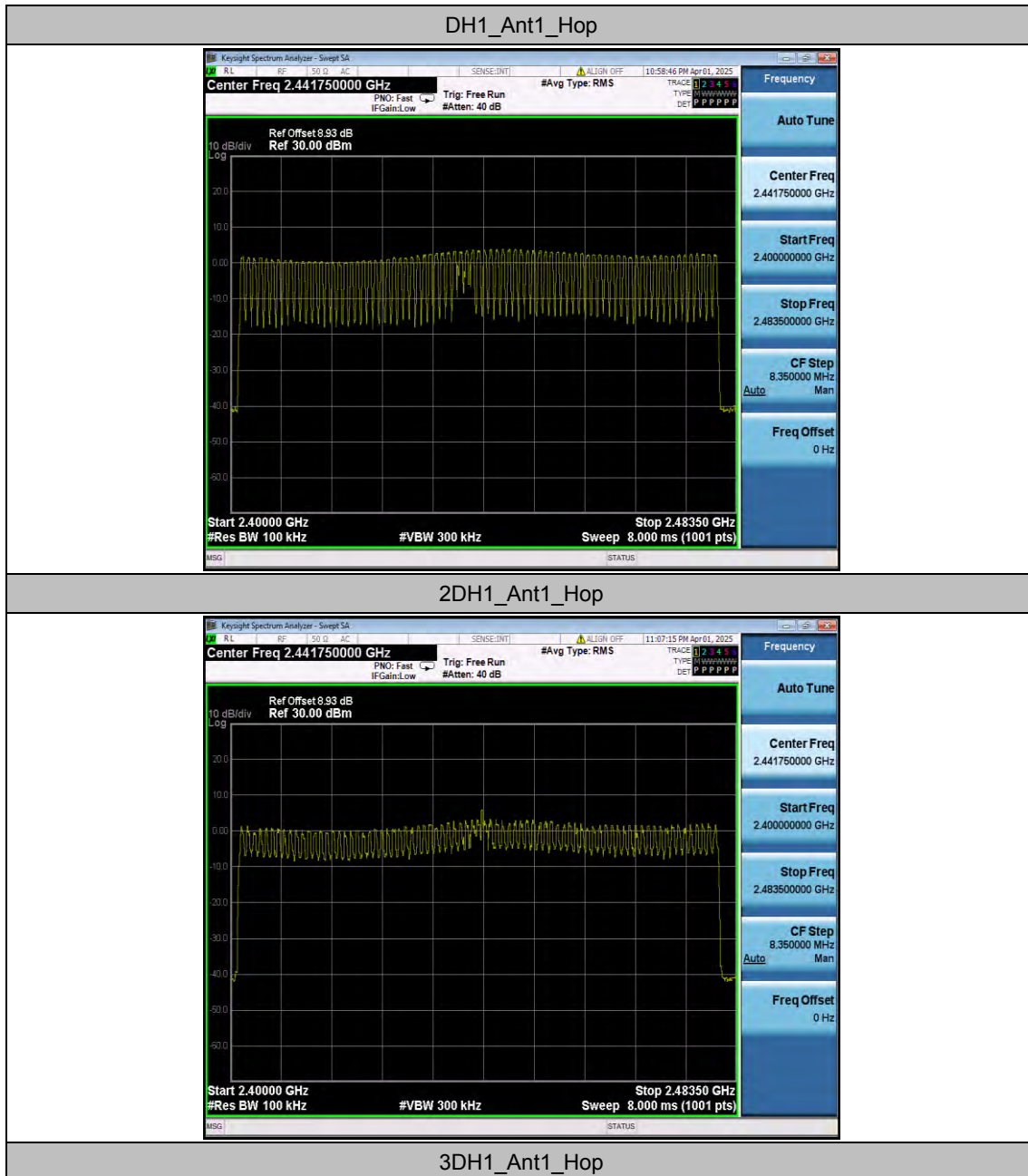


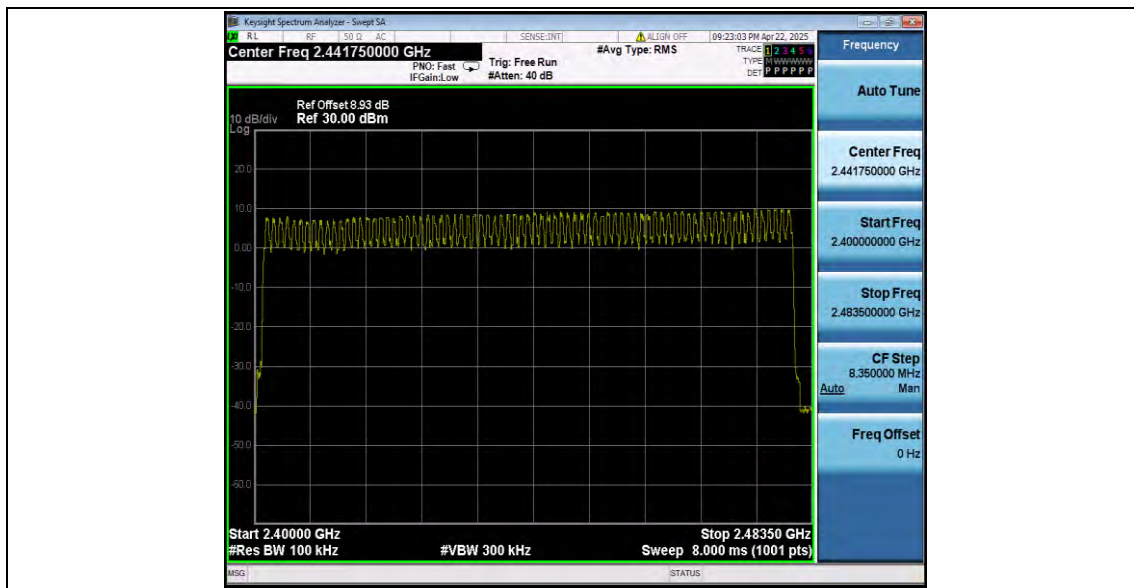
Appendix A.6: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs





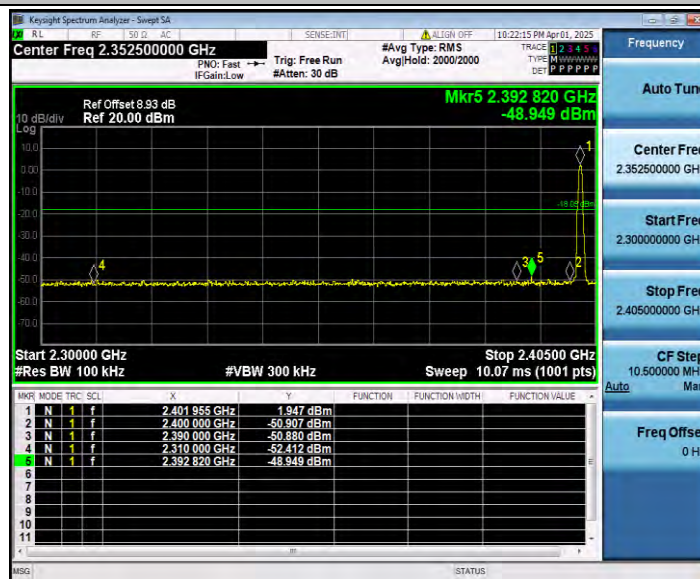
Appendix A.7: Band edge measurements

Test Result

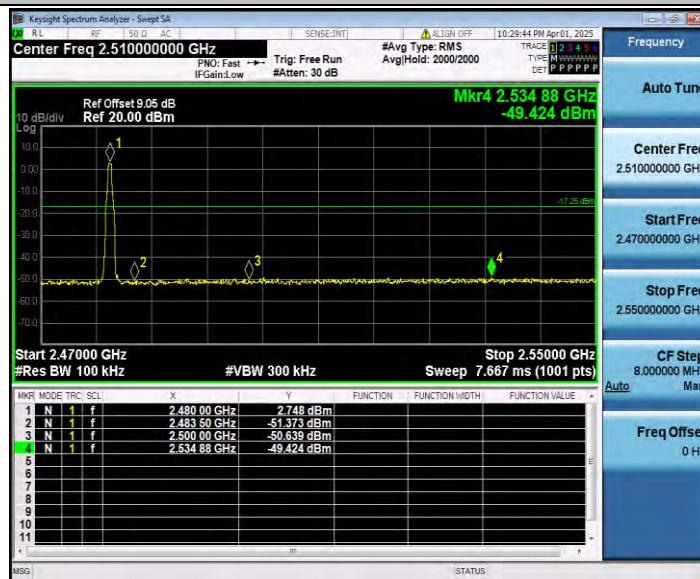
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	1.95	-48.95	≤ -18.05	PASS
		High	2480	2.75	-49.42	≤ -17.25	PASS
		Low	Hop_2402	1.25	-49.06	≤ -18.75	PASS
		High	Hop_2480	2.54	-49.29	≤ -17.46	PASS
2DH1	Ant1	Low	2402	1.07	-49.94	≤ -18.93	PASS
		High	2480	1.88	-48.69	≤ -18.12	PASS
		Low	Hop_2402	-0.73	-49.66	≤ -20.73	PASS
		High	Hop_2480	1.37	-48.78	≤ -18.63	PASS
3DH1	Ant1	Low	2402	0.77	-49.47	≤ -19.23	PASS
		High	2480	1.61	-48.93	≤ -18.39	PASS
		Low	Hop_2402	0.51	-49.42	≤ -19.49	PASS
		High	Hop_2480	1.27	-48.75	≤ -18.73	PASS

Test Graphs

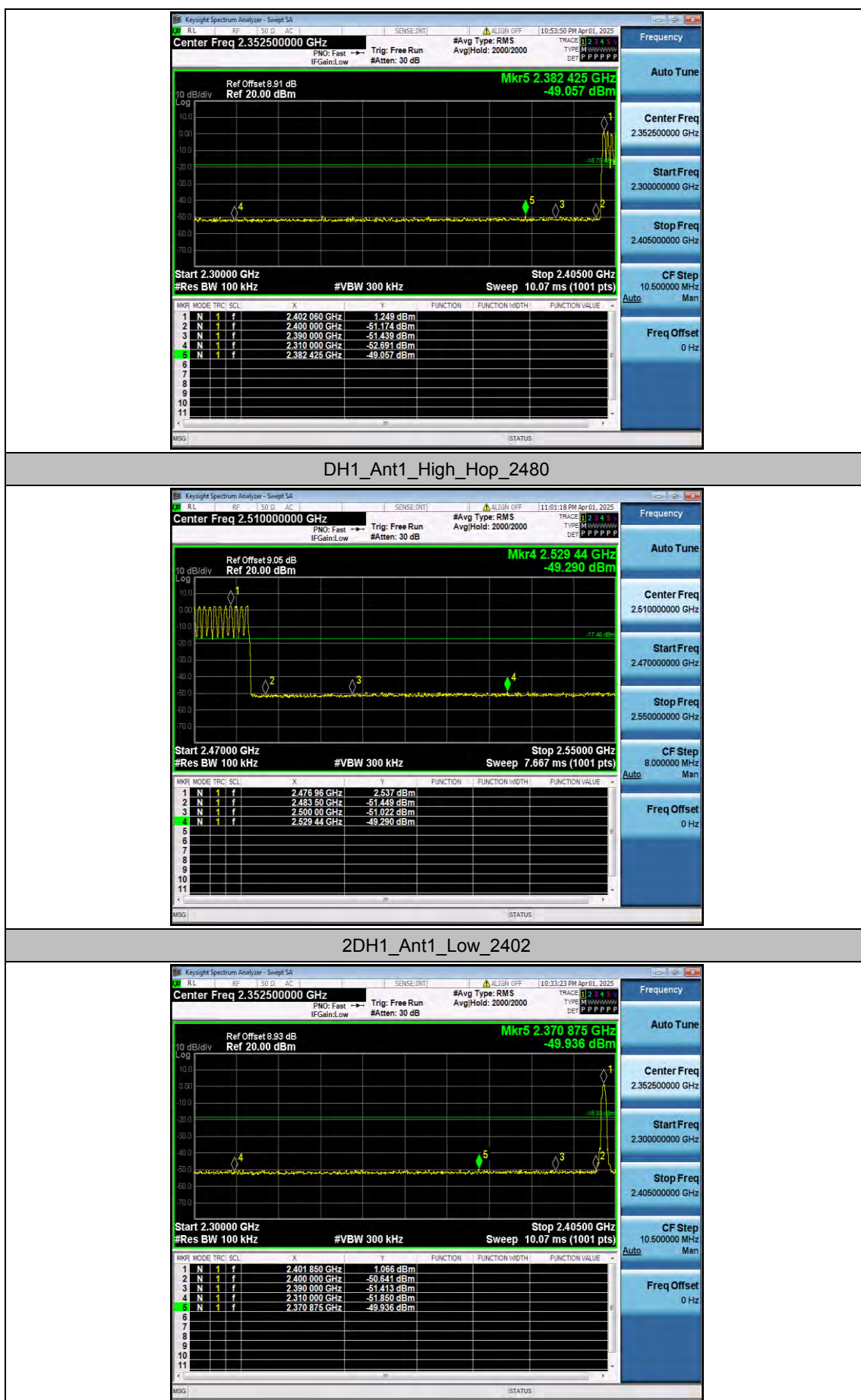
DH1_Ant1_Low_2402



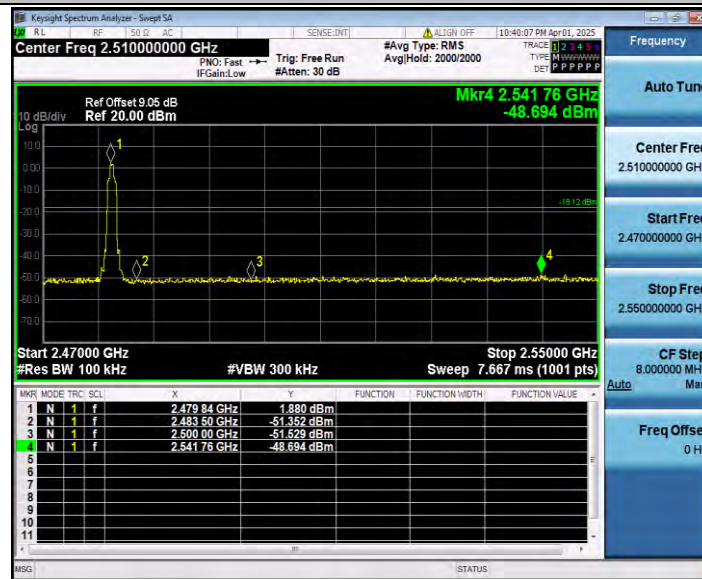
DH1_Ant1_High_2480



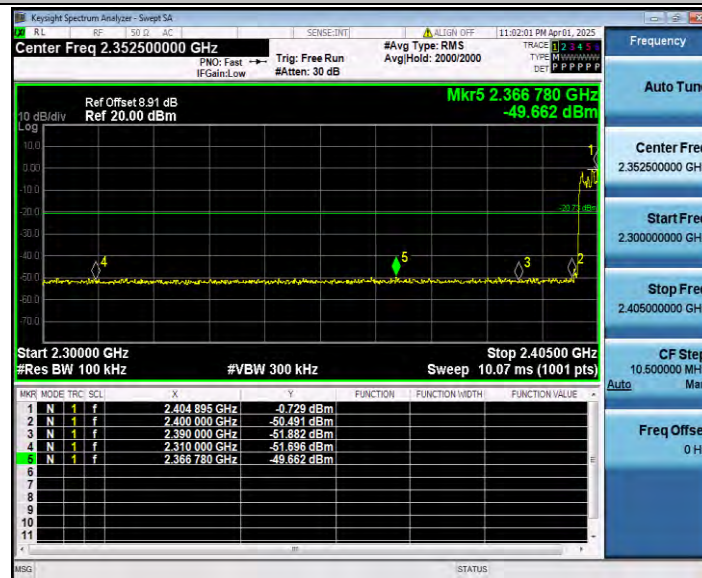
DH1_Ant1_Low_Hop_2402



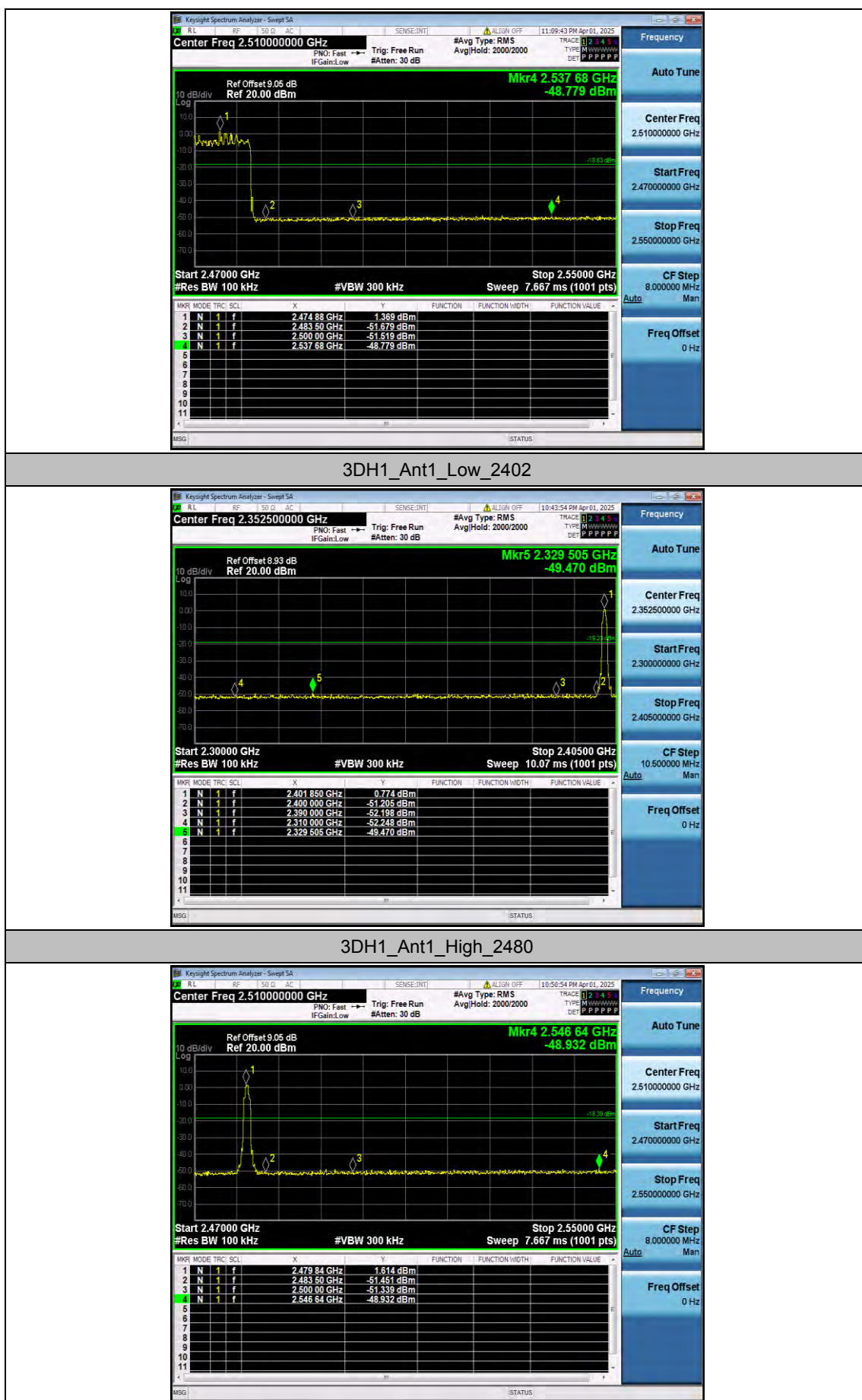
2DH1_Ant1_High_2480



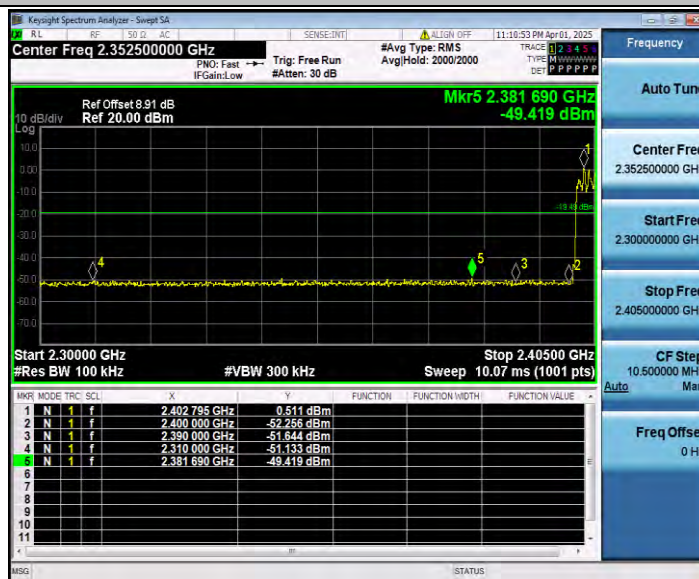
2DH1_Ant1_Low_Hop_2402



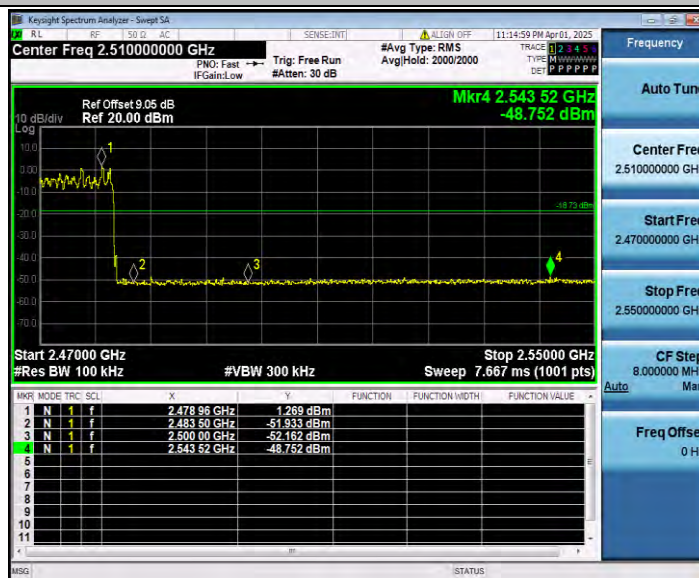
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

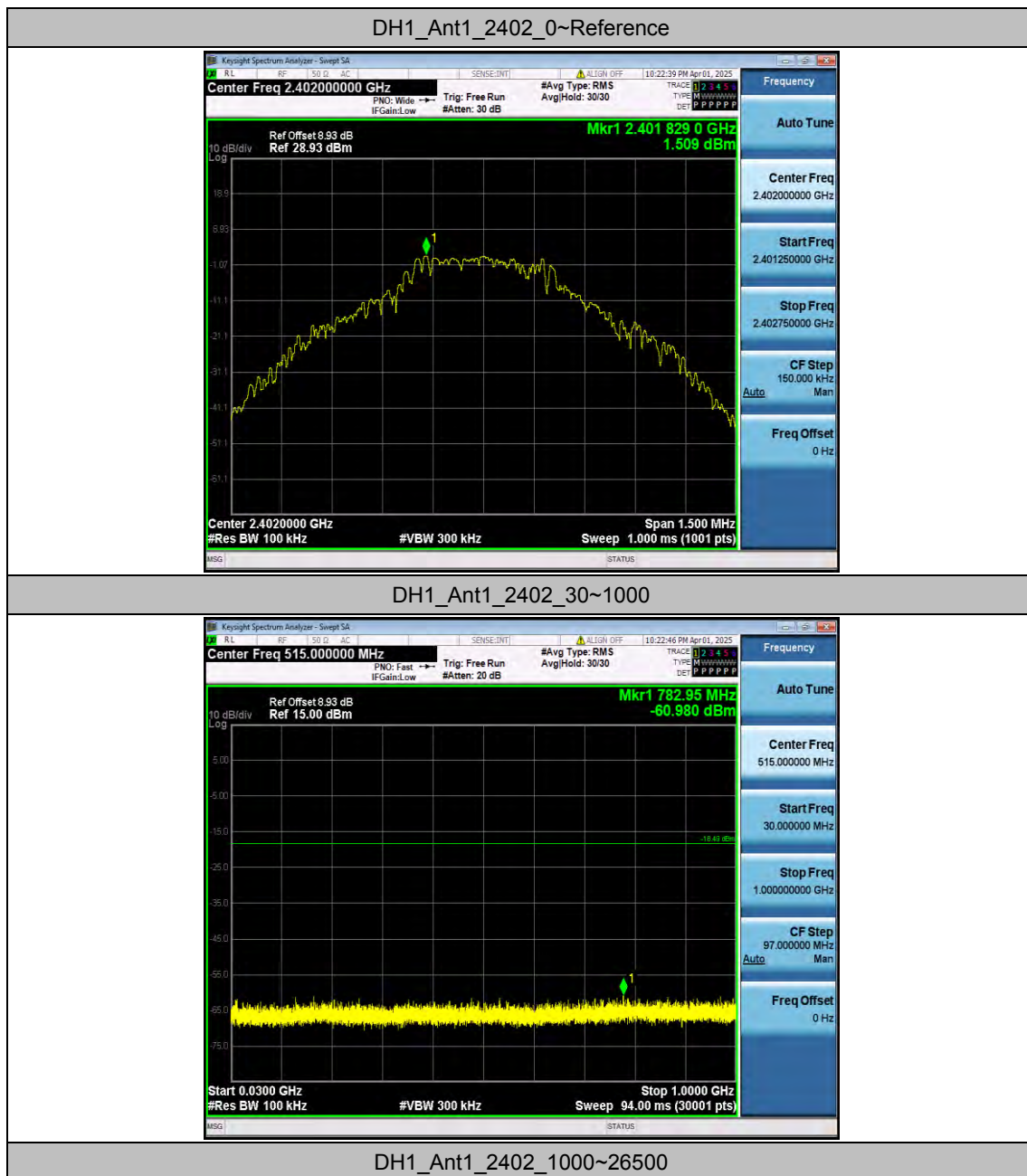


Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-60.98	≤ -18.49	PASS
			1000~26500	1.51	-47.82	≤ -18.49	PASS
		2441	Reference	3.56	3.56	---	PASS
			30~1000	3.56	-59.27	≤ -16.44	PASS
			1000~26500	3.56	-47.56	≤ -16.44	PASS
		2480	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-60.01	≤ -17.72	PASS
			1000~26500	2.28	-47.84	≤ -17.72	PASS
2DH1	Ant1	2402	Reference	0.61	0.61	---	PASS
			30~1000	0.61	-60.06	≤ -19.39	PASS
			1000~26500	0.61	-47.7	≤ -19.39	PASS
		2441	Reference	2.85	2.85	---	PASS
			30~1000	2.85	-59.39	≤ -17.15	PASS
			1000~26500	2.85	-47.83	≤ -17.15	PASS
		2480	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-60.66	≤ -19.45	PASS
			1000~26500	0.55	-47.78	≤ -19.45	PASS
3DH1	Ant1	2402	Reference	0.65	0.65	---	PASS
			30~1000	0.65	-59.96	≤ -19.35	PASS
			1000~26500	0.65	-47.58	≤ -19.35	PASS
		2441	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-60.57	≤ -17.89	PASS
			1000~26500	2.11	-47.46	≤ -17.89	PASS
		2480	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-60.88	≤ -18.5	PASS
			1000~26500	1.50	-47.55	≤ -18.5	PASS

Test Graphs

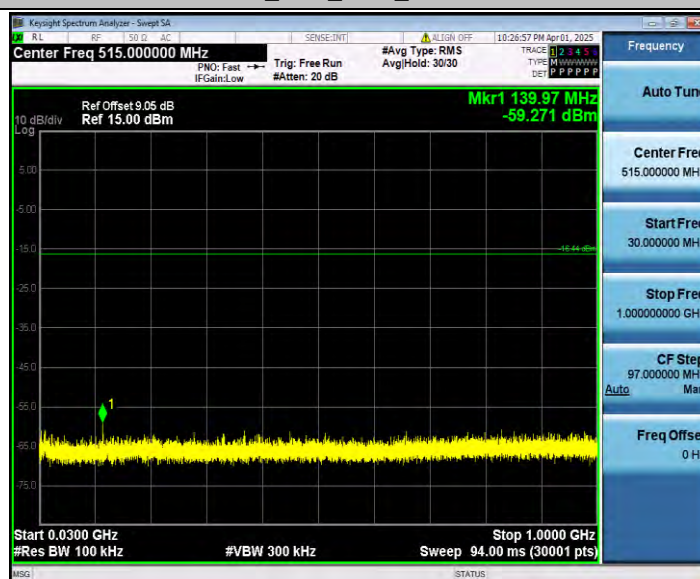




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



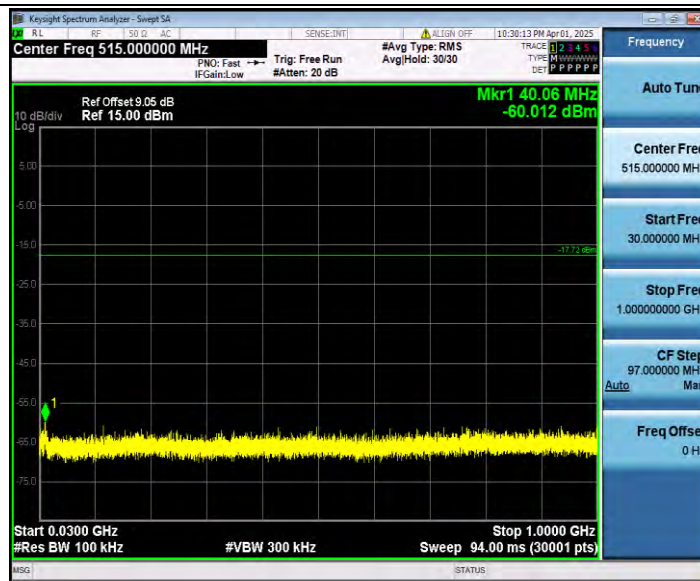
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

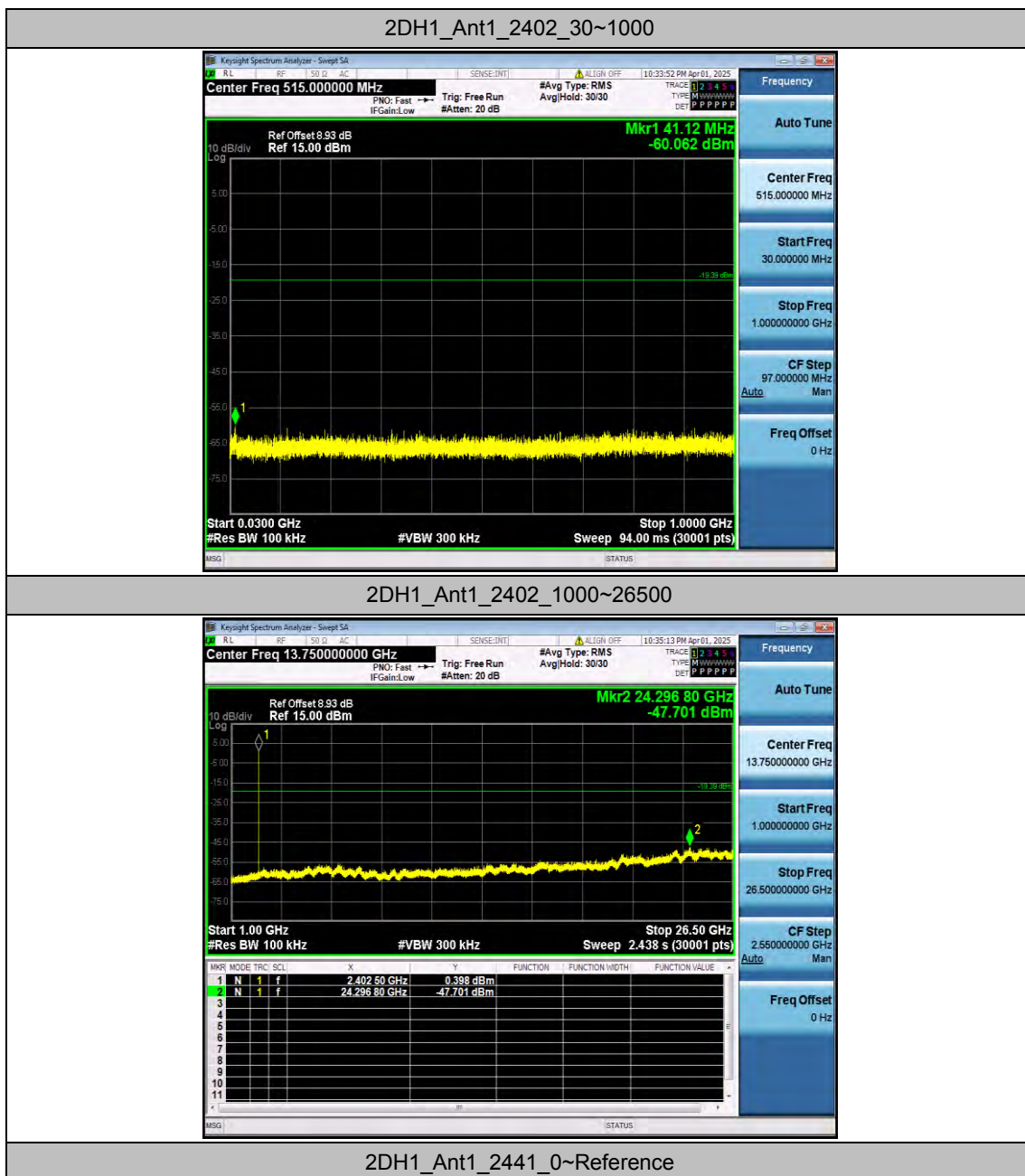


DH1_Ant1_2480_1000~26500



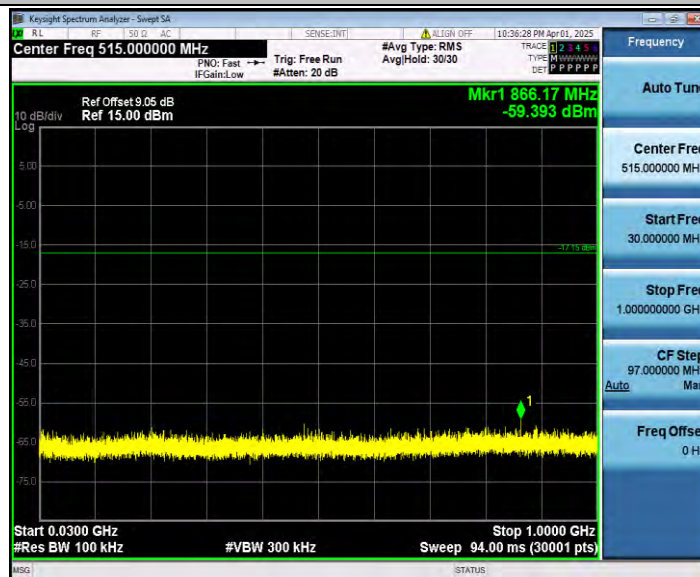
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



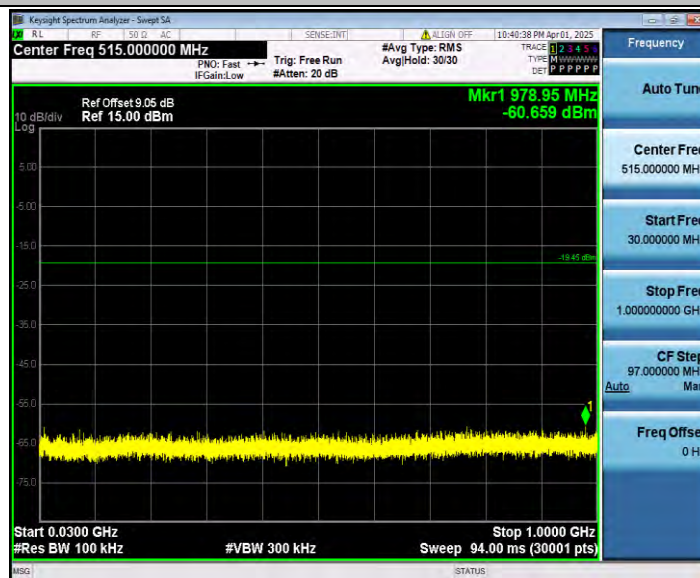
2DH1_Ant1_2441_1000~26500



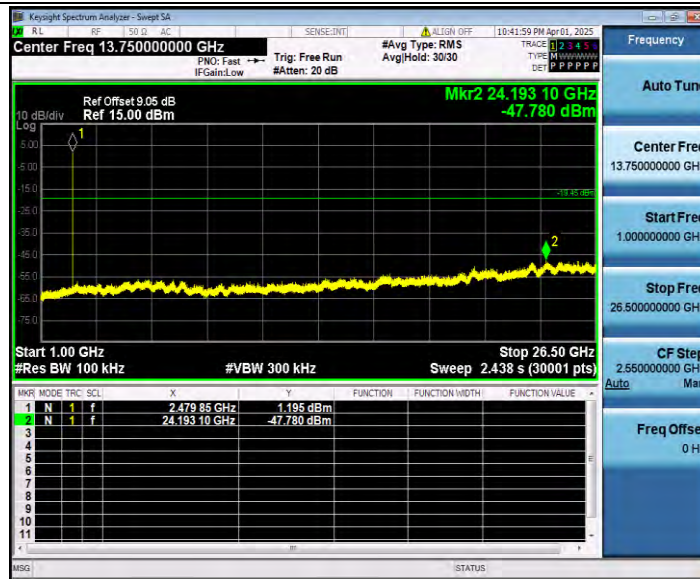
2DH1_Ant1_2480_0~Reference



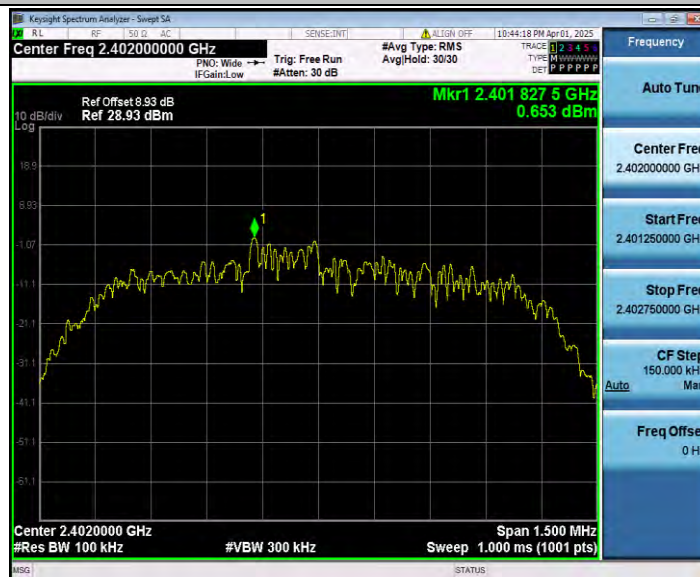
2DH1_Ant1_2480_30~1000



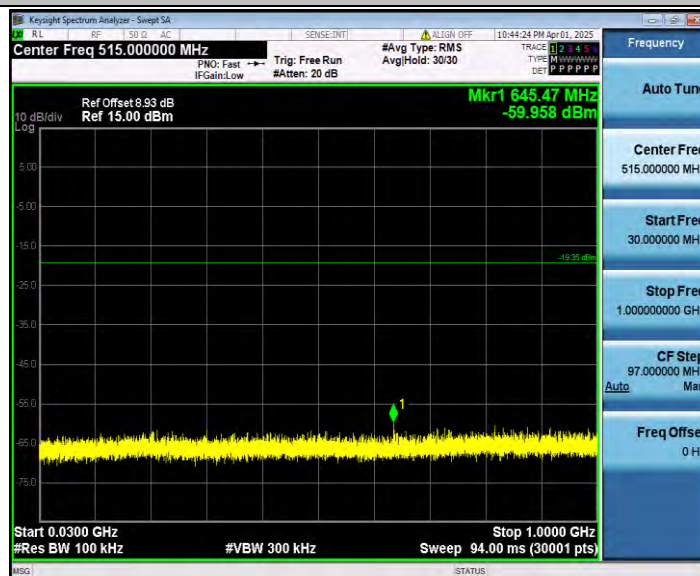
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



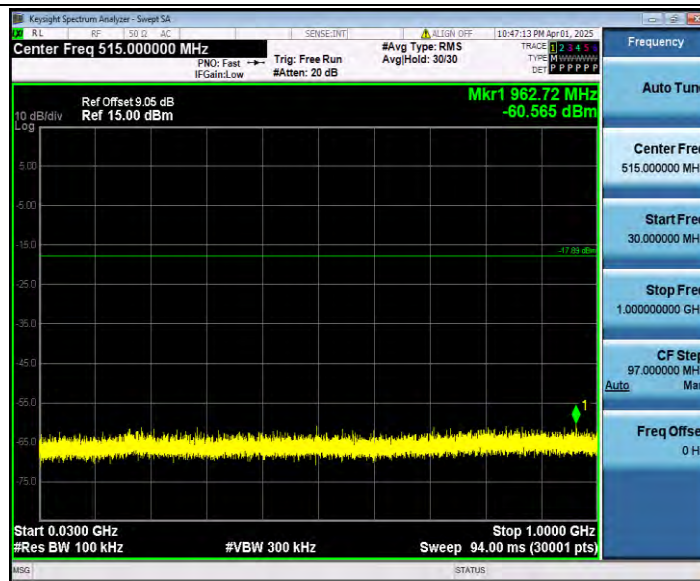
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

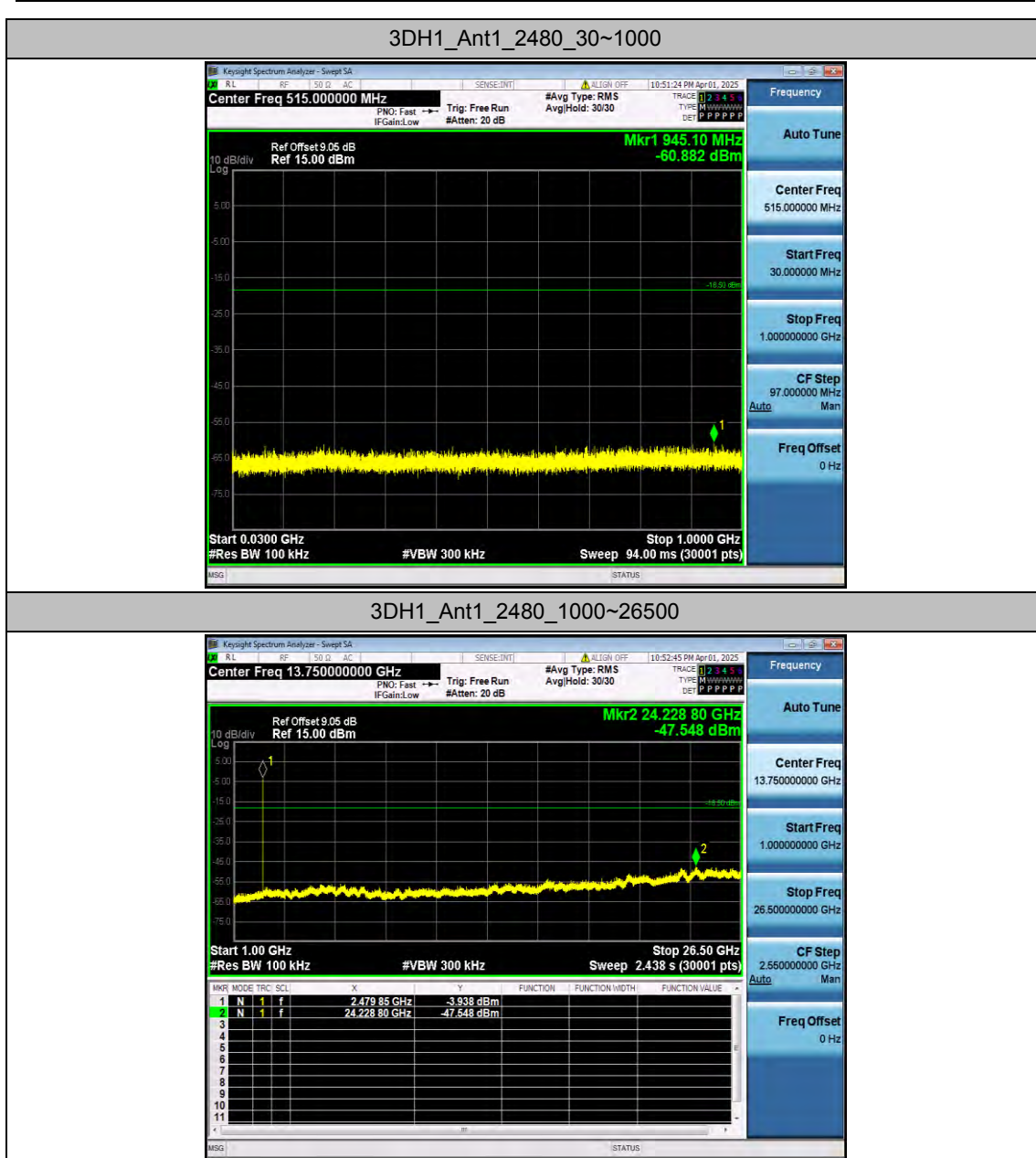


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

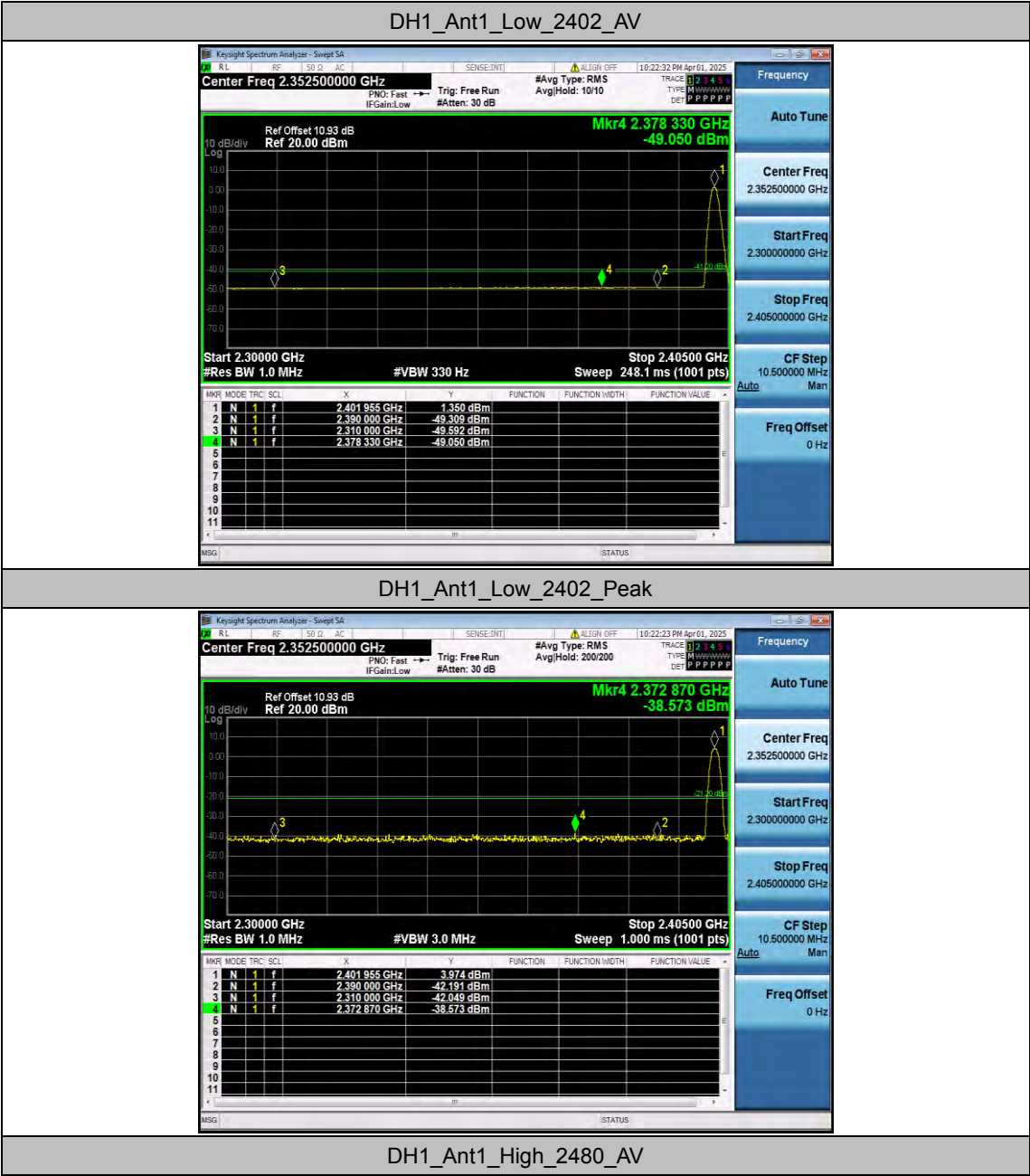
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.59	≤-41.20	45.61	≤54	PASS
				AV	2378.330	-49.05	≤-41.20	46.15	≤54	PASS
				AV	2390.000	-49.31	≤-41.20	45.89	≤54	PASS
				Peak	2310.000	-42.05	≤-21.20	53.15	≤74	PASS
				Peak	2372.870	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	2390.000	-42.19	≤-21.20	53.01	≤74	PASS
		High	2480	AV	2483.500	-48.78	≤-41.20	46.42	≤54	PASS
				AV	2496.800	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2500.000	-48.89	≤-41.20	46.31	≤54	PASS
				Peak	2483.500	-41.21	≤-21.20	53.99	≤74	PASS
				Peak	2497.360	-39.19	≤-21.20	56.01	≤74	PASS
				Peak	2500.000	-40.65	≤-21.20	54.55	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.57	≤-41.20	45.63	≤54	PASS
				AV	2380.430	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2390.000	-49.25	≤-41.20	45.95	≤54	PASS
				Peak	2310.000	-42.15	≤-21.20	53.05	≤74	PASS
				Peak	2366.885	-38.69	≤-21.20	56.51	≤74	PASS
				Peak	2390.000	-42.29	≤-21.20	52.91	≤74	PASS
		High	2480	AV	2483.500	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2499.920	-48.74	≤-41.20	46.46	≤54	PASS
				AV	2500.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2483.500	-42.24	≤-21.20	52.96	≤74	PASS
				Peak	2494.880	-38.38	≤-21.20	56.82	≤74	PASS
				Peak	2500.000	-40.3	≤-21.20	54.90	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.57	≤-41.20	45.63	≤54	PASS
				AV	2388.515	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2390.000	-49.22	≤-41.20	45.98	≤54	PASS
				Peak	2310.000	-41.57	≤-21.20	53.63	≤74	PASS
				Peak	2379.485	-38.76	≤-21.20	56.44	≤74	PASS
				Peak	2390.000	-41.36	≤-21.20	53.84	≤74	PASS
		High	2480	AV	2483.500	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2496.560	-48.78	≤-41.20	46.42	≤54	PASS
				AV	2500.000	-48.96	≤-41.20	46.24	≤54	PASS
				Peak	2483.500	-41.09	≤-21.20	54.11	≤74	PASS
				Peak	2498.560	-38.85	≤-21.20	56.35	≤74	PASS

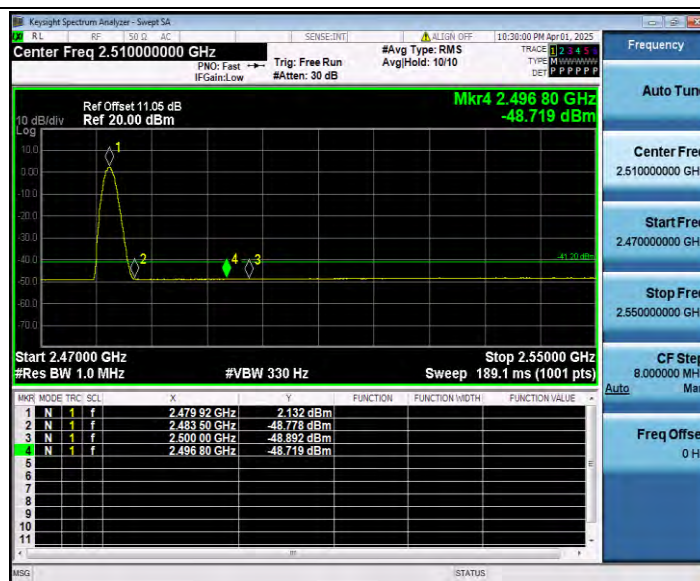
				Peak	2500.000	-40.93	≤-21.20	54.27	≤74	PASS
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Note:

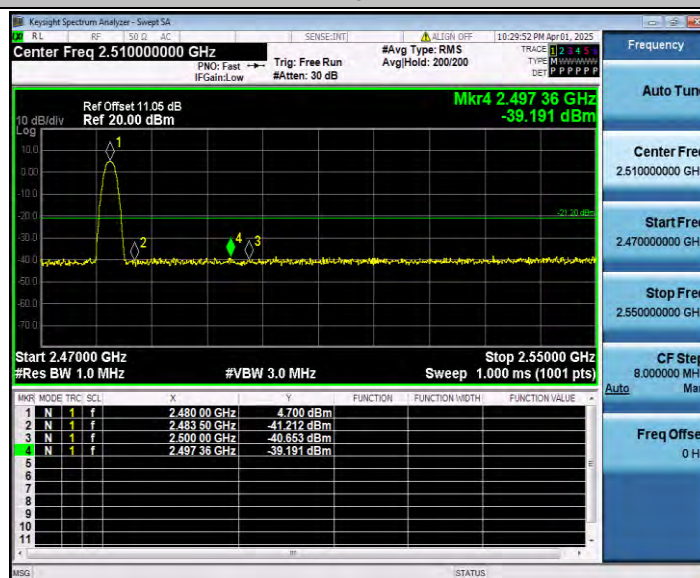
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

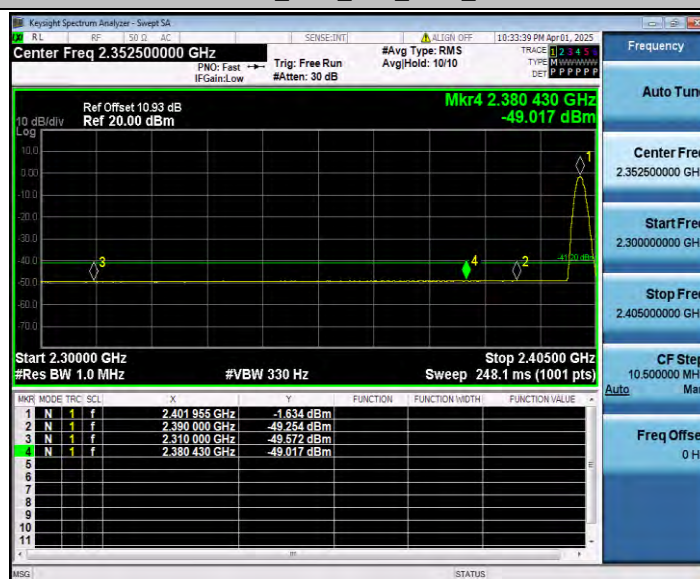




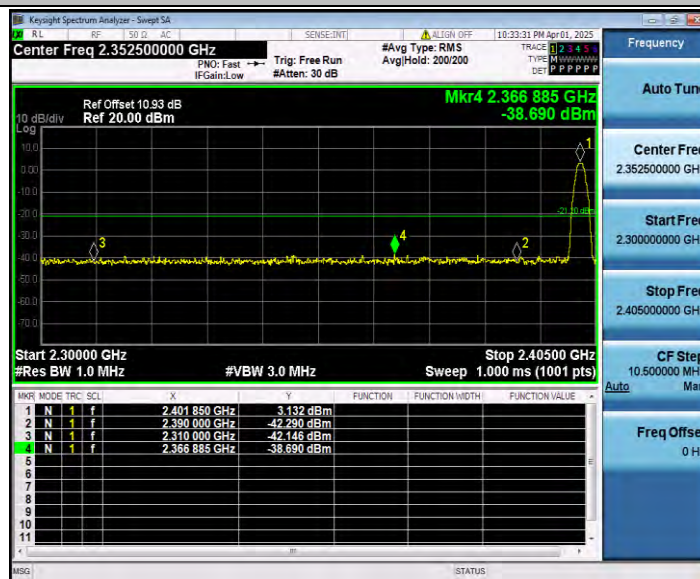
DH1_Ant1_High_2480_Peak



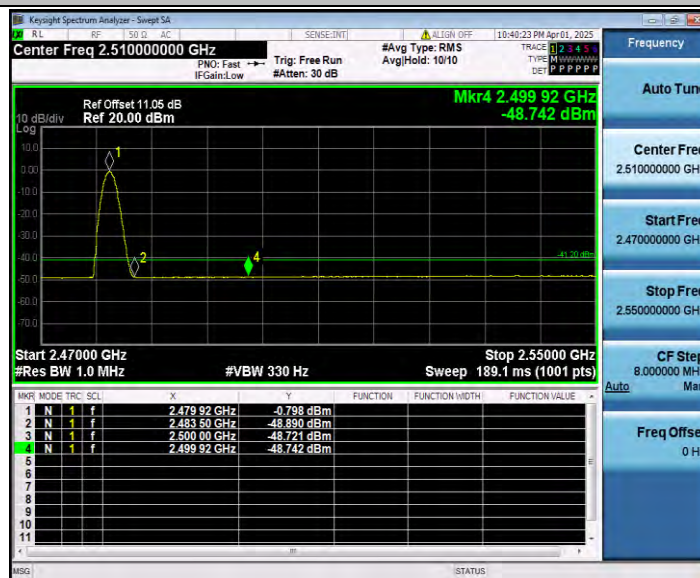
2DH1_Ant1_Low_2402_AV



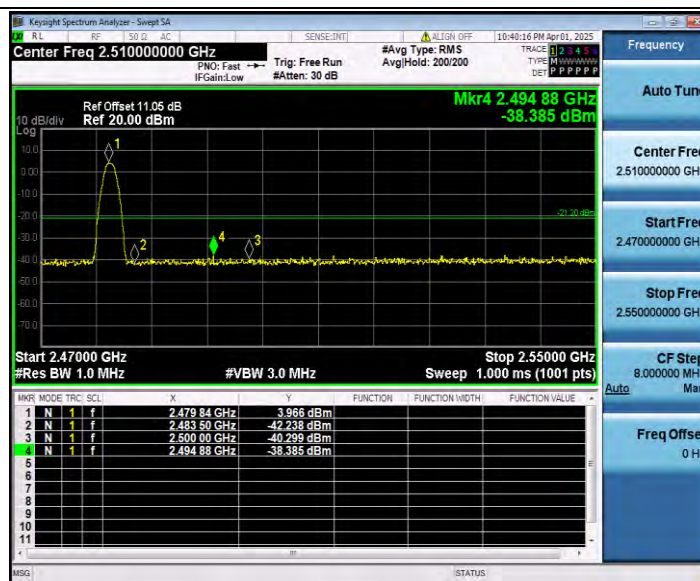
2DH1_Ant1_Low_2402_Peak



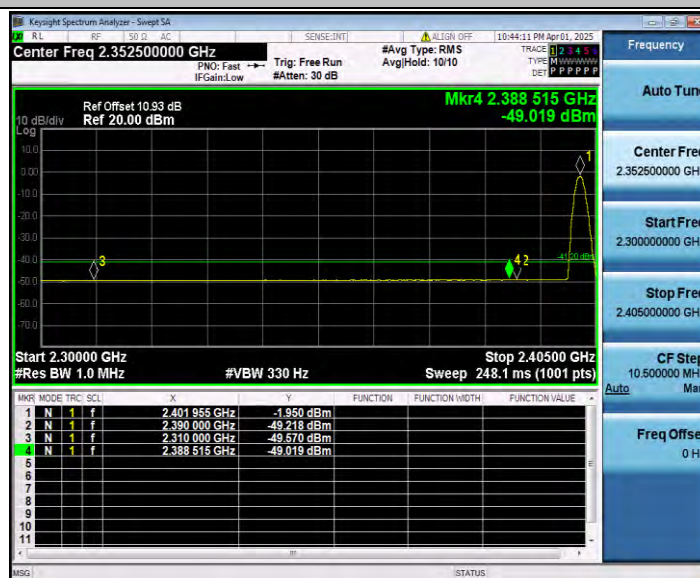
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

