

Case No. : <u>GTS20250311006-1-01</u>	
Ambient Condition: <u>22</u> °C, <u>48</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.3.31</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	2401.601	2402.390	---	---
		2441	0.804	2440.595	2441.399	---	---
		2480	0.801	2479.568	2480.369	---	---
2DH1	Ant1	2402	1.245	2401.364	2402.609	---	---
		2441	1.260	2440.358	2441.618	---	---
		2480	1.251	2479.364	2480.615	---	---
3DH1	Ant1	2402	1.239	2401.379	2402.618	---	---
		2441	1.254	2440.367	2441.621	---	---
		2480	1.254	2479.364	2480.618	---	---

Test Graphs

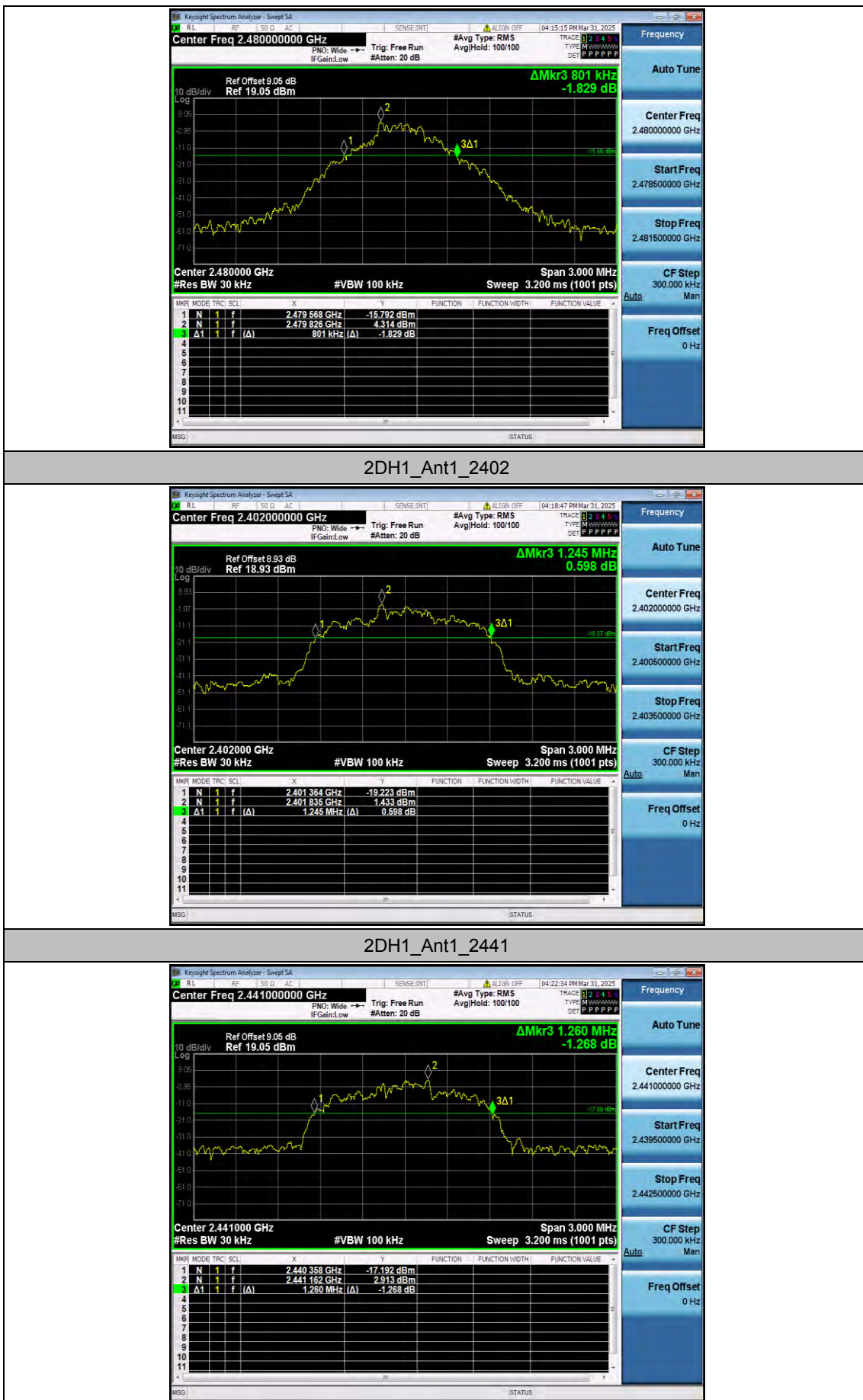
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



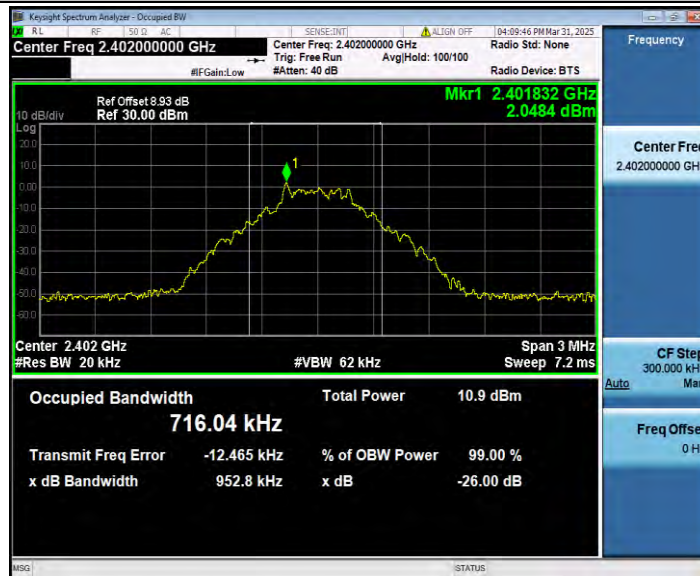
Appendix A.2: Occupied Channel Bandwidth

Test Result

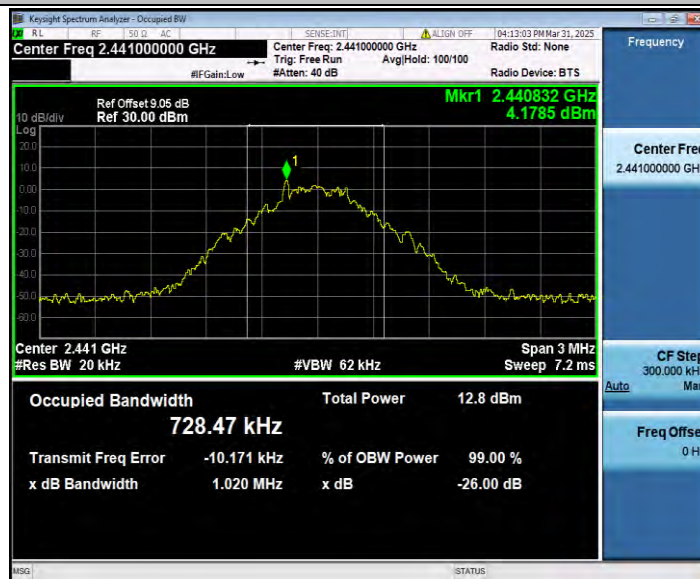
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.71604	2401.6295	2402.3456	---	---
		2441	0.72847	2440.6256	2441.3541	---	---
		2480	0.71983	2479.6318	2480.3516	---	---
2DH1	Ant1	2402	1.1431	2401.4164	2402.5595	---	---
		2441	2.5241	2439.6393	2442.1634	---	---
		2480	1.1510	2479.4151	2480.5661	---	---
3DH1	Ant1	2402	1.1436	2401.4334	2402.5770	---	---
		2441	1.1512	2440.4279	2441.5791	---	---
		2480	1.1536	2479.4275	2480.5811	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



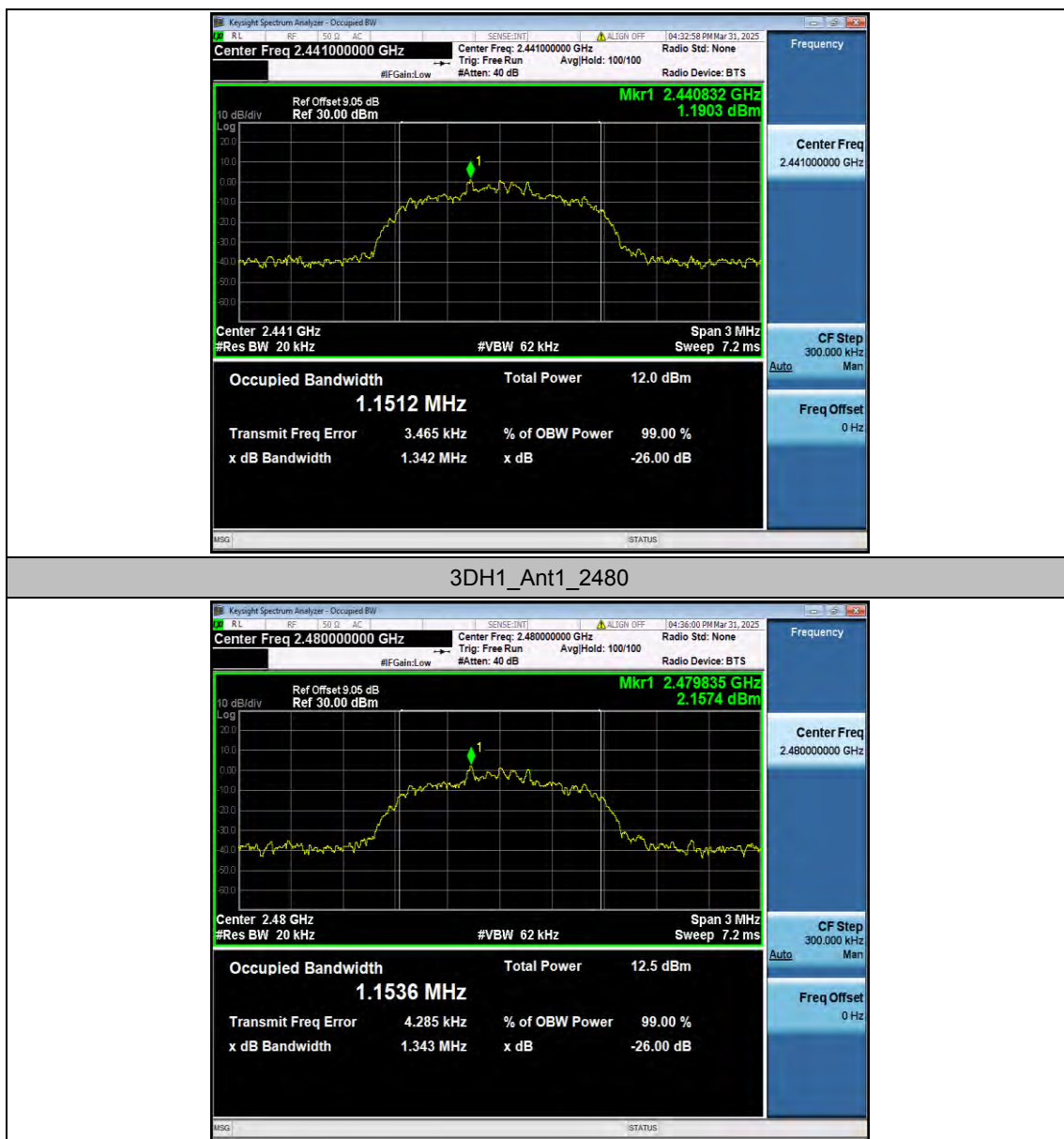
2DH1_Ant1_2480



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	5.17	≤30.00	PASS
		2441	7.30	≤30.00	PASS
		2480	7.69	≤30.00	PASS
2DH1	Ant1	2402	4.46	≤20.97	PASS
		2441	7.31	≤20.97	PASS
		2480	7.73	≤20.97	PASS
3DH1	Ant1	2402	4.49	≤20.97	PASS
		2441	7.35	≤20.97	PASS
		2480	7.68	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.996	≥ 0.804	PASS
		Hop_2441	1.178	≥ 0.804	PASS
		Hop_2480	1.034	≥ 0.804	PASS
2DH1	Ant1	Hop_2402	0.996	≥ 0.840	PASS
		Hop_2441	0.992	≥ 0.840	PASS
		Hop_2480	0.976	≥ 0.840	PASS
3DH1	Ant1	Hop_2402	1.176	≥ 0.836	PASS
		Hop_2441	0.87	≥ 0.836	PASS
		Hop_2480	0.976	≥ 0.836	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



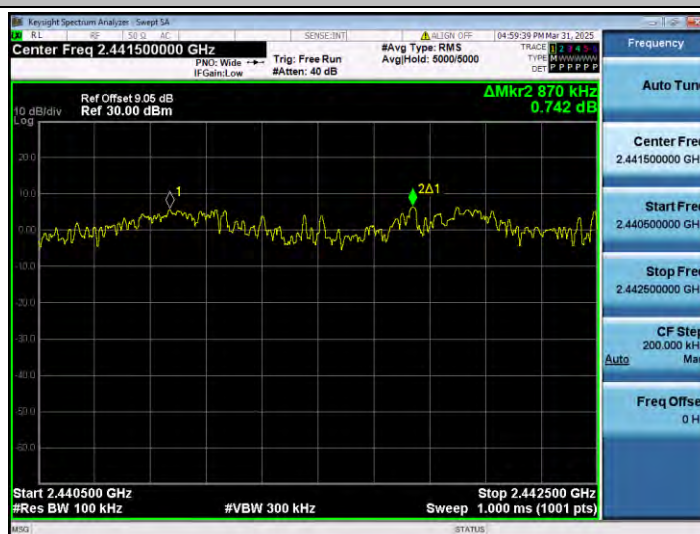
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441



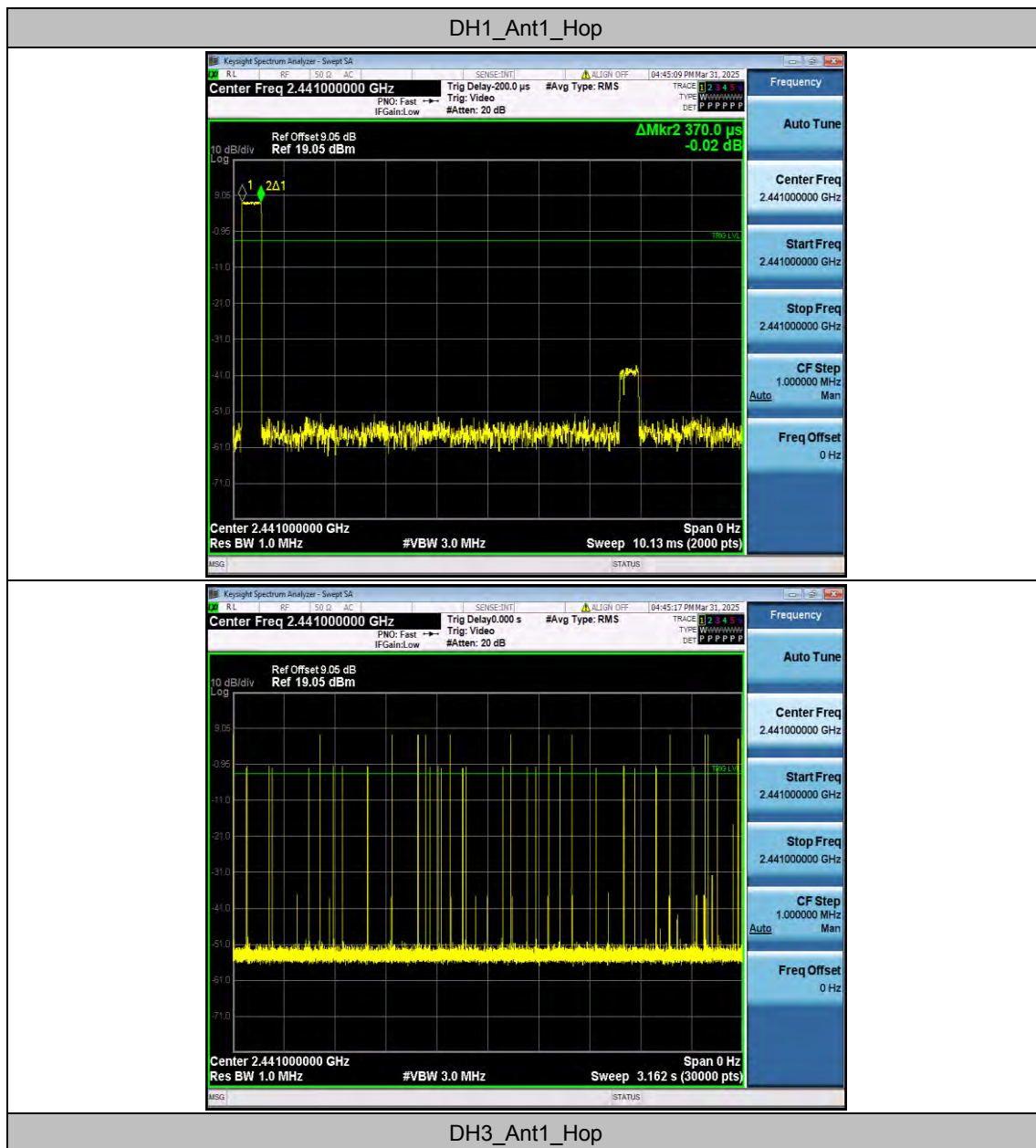


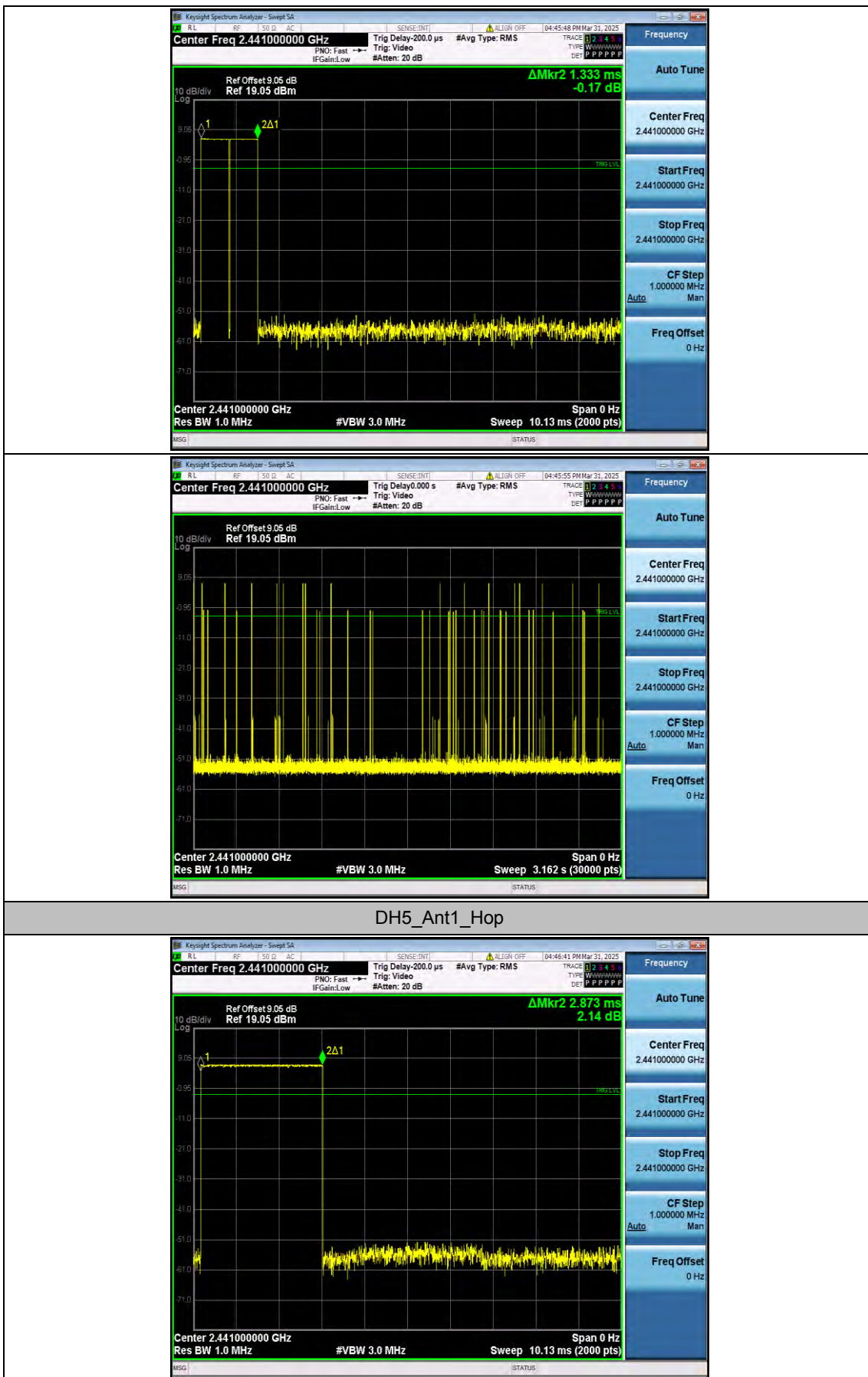
Appendix A.5: Time of occupancy

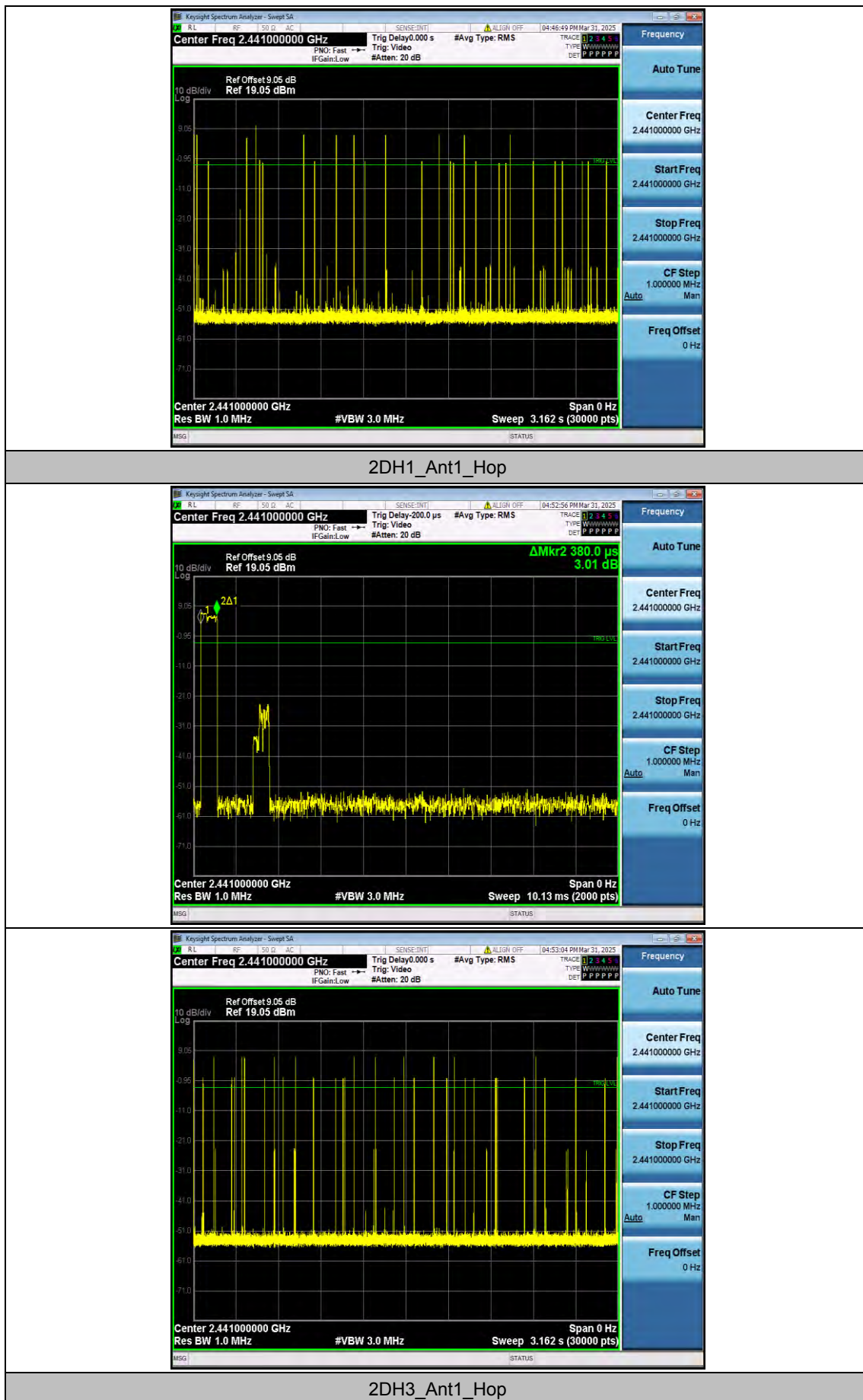
Test Result

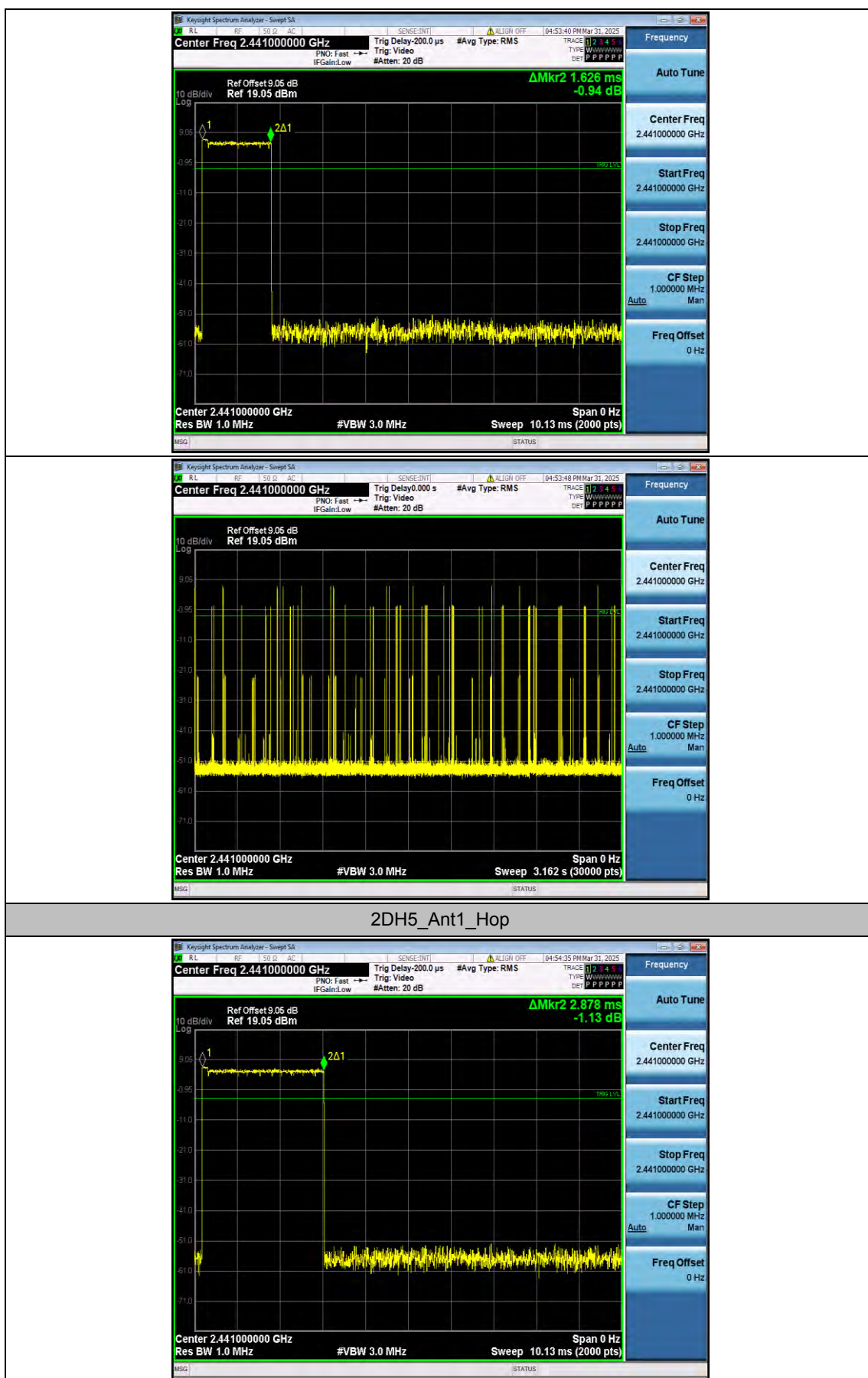
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	140	0.052	≤0.4	PASS
DH3	Ant1	Hop	1.333	170	0.227	≤0.4	PASS
DH5	Ant1	Hop	2.873	110	0.316	≤0.4	PASS
2DH1	Ant1	Hop	0.380	130	0.049	≤0.4	PASS
2DH3	Ant1	Hop	1.626	150	0.244	≤0.4	PASS
2DH5	Ant1	Hop	2.878	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.375	140	0.053	≤0.4	PASS
3DH3	Ant1	Hop	1.626	170	0.276	≤0.4	PASS
3DH5	Ant1	Hop	2.878	110	0.317	≤0.4	PASS

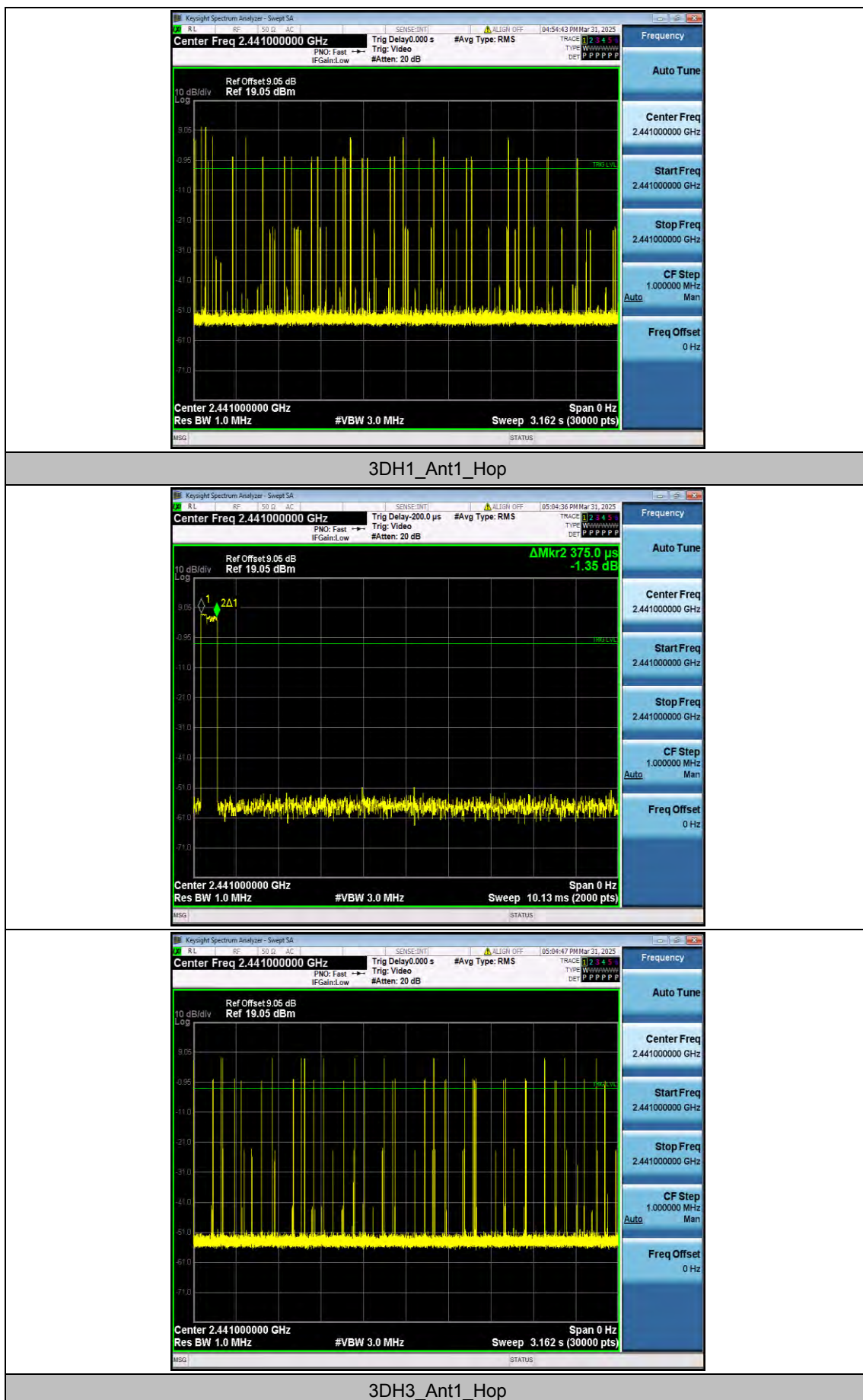
Test Graphs

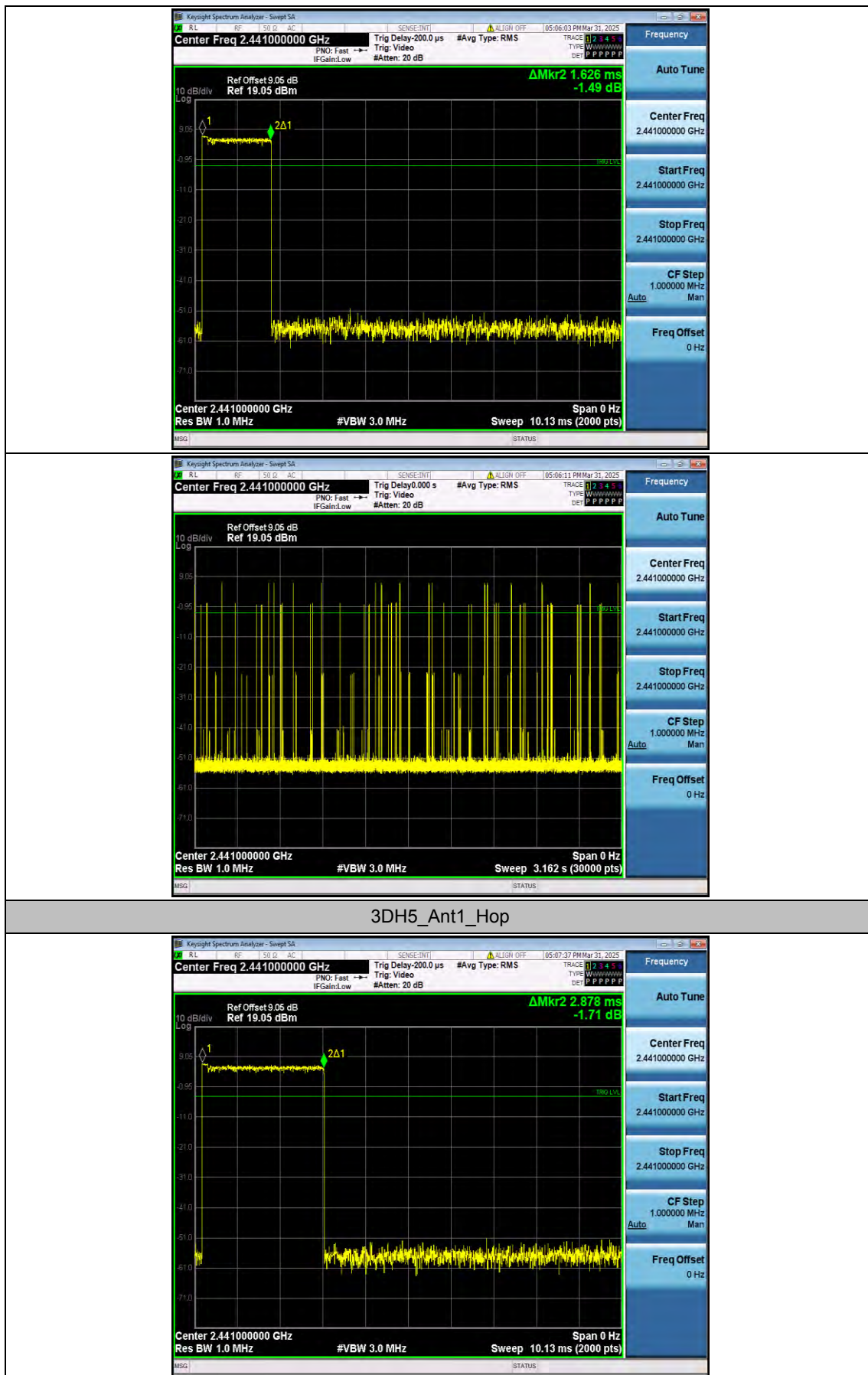


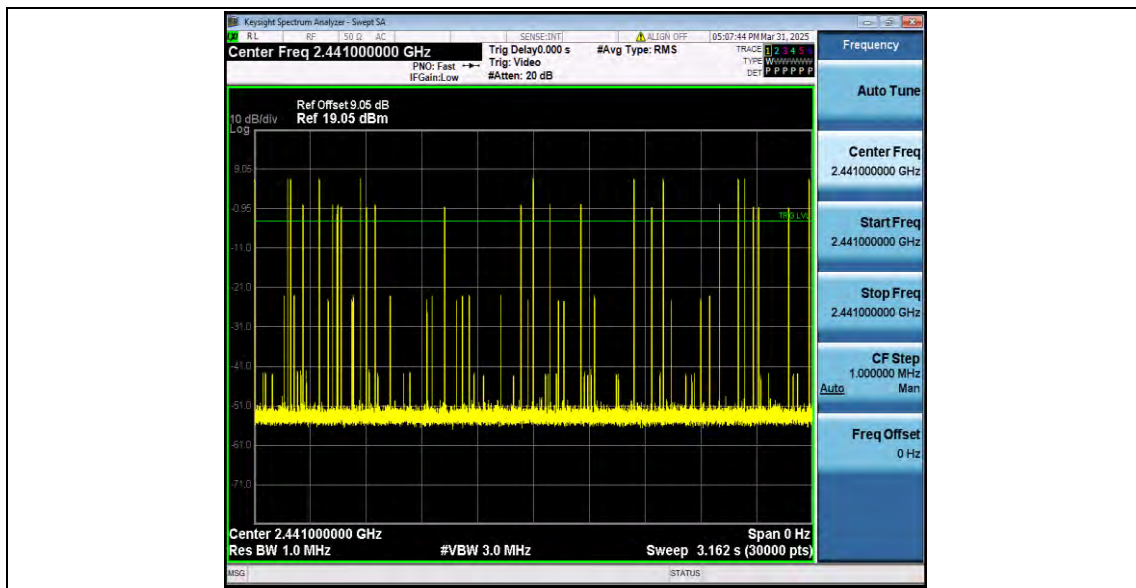










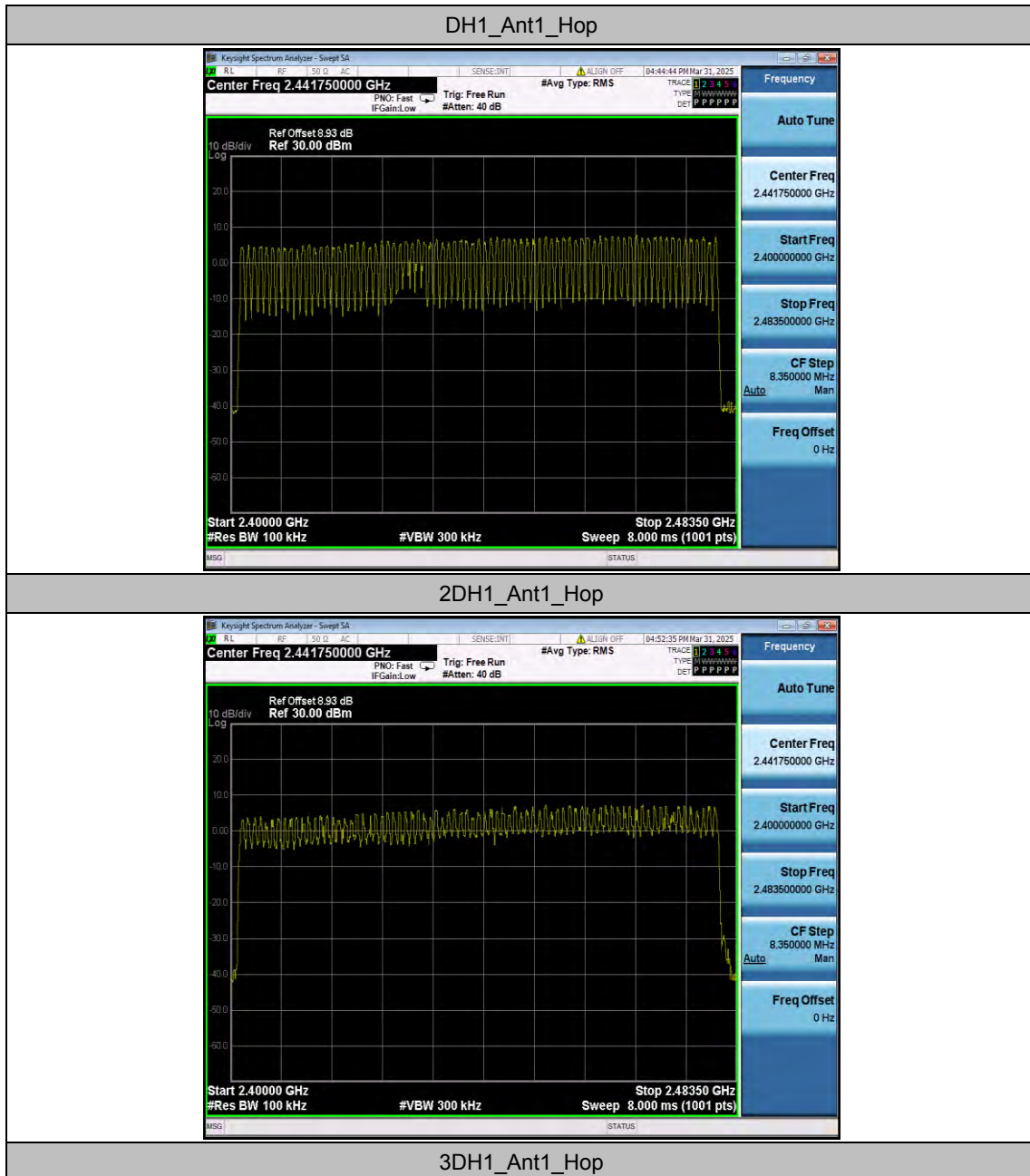


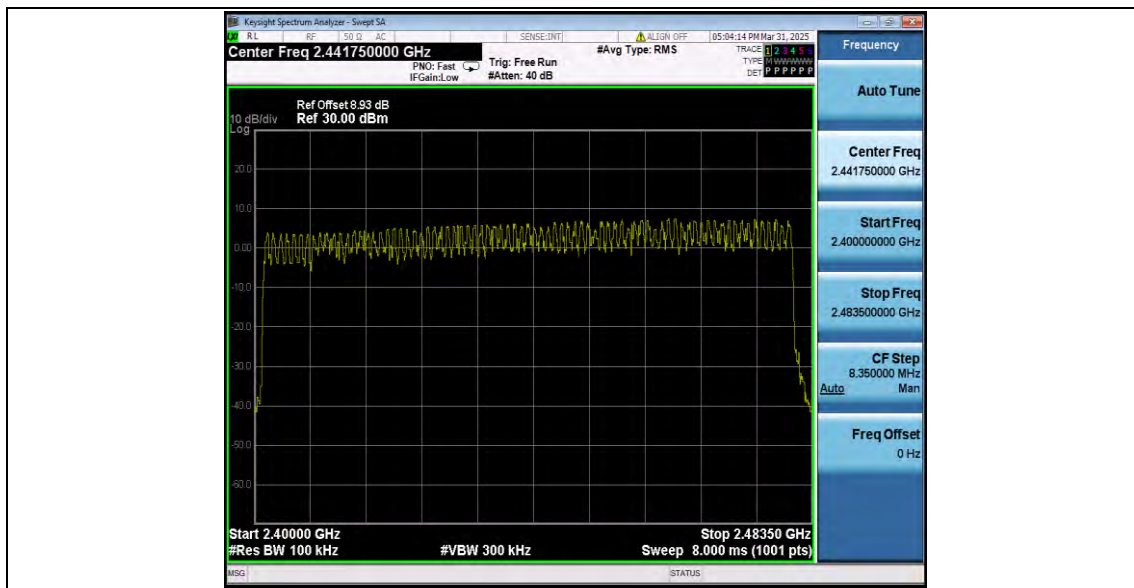
Appendix A.6: Number of hopping channels

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



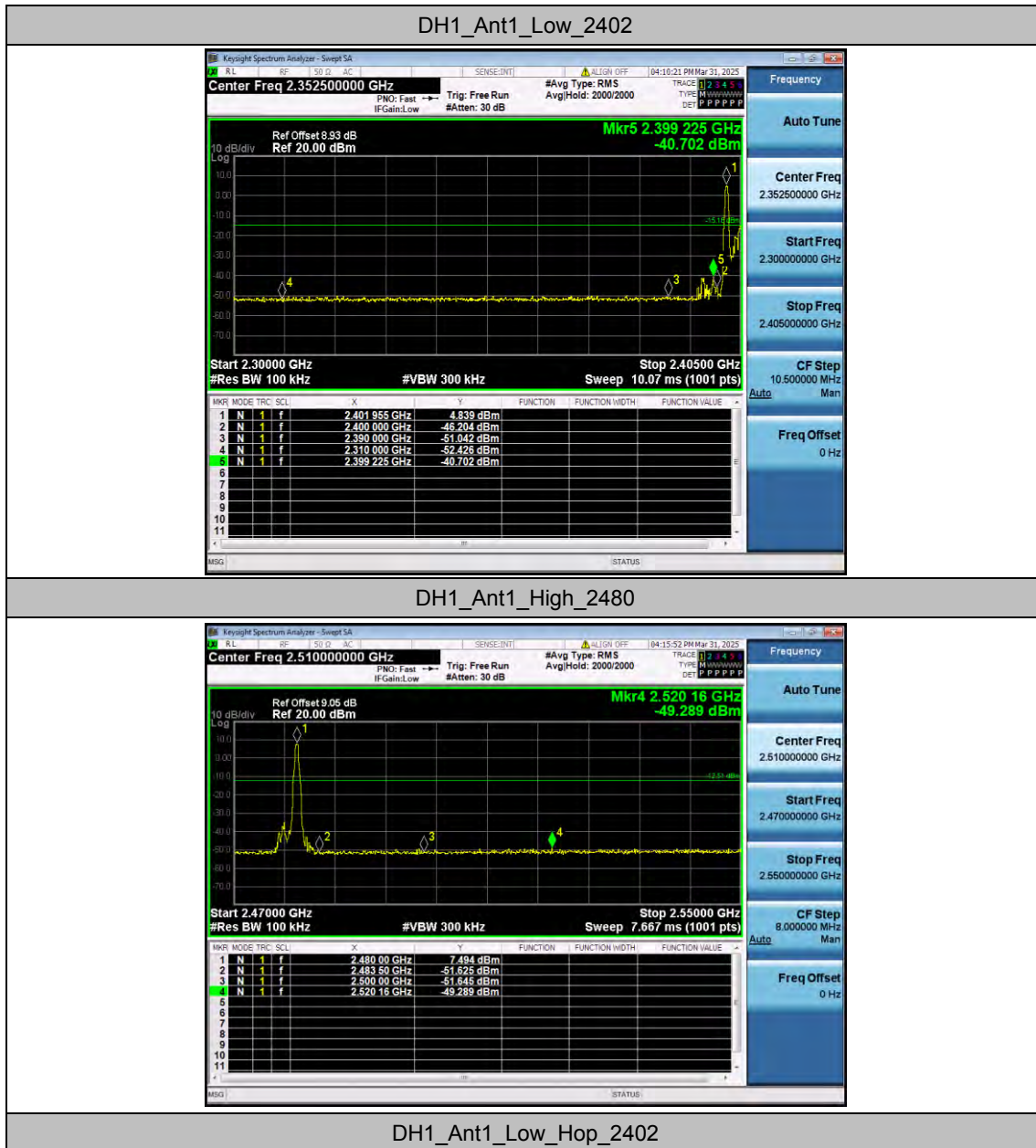


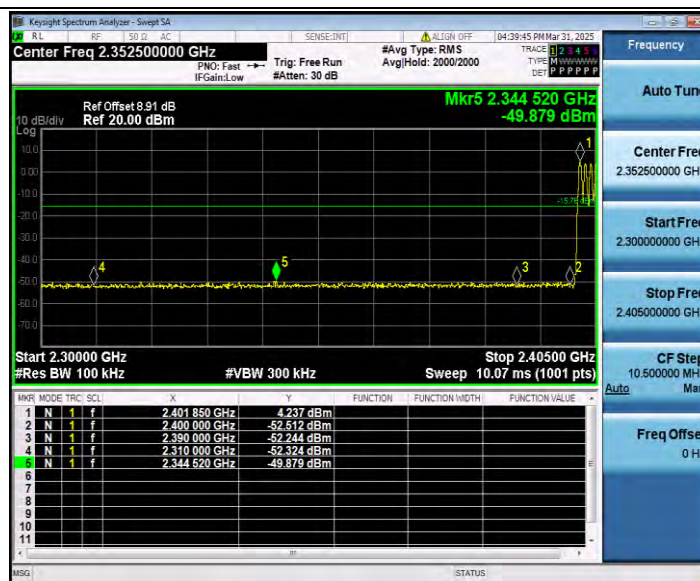
Appendix A.7: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	4.84	-40.7	≤ -15.16	PASS
		High	2480	7.49	-49.29	≤ -12.51	PASS
		Low	Hop_2402	4.24	-49.88	≤ -15.76	PASS
		High	Hop_2480	7.08	-39.63	≤ -12.92	PASS
2DH1	Ant1	Low	2402	4.19	-49.21	≤ -15.81	PASS
		High	2480	7.34	-48.99	≤ -12.67	PASS
		Low	Hop_2402	3.89	-49.84	≤ -16.11	PASS
		High	Hop_2480	7.12	-48.71	≤ -12.89	PASS
3DH1	Ant1	Low	2402	4.16	-49.6	≤ -15.84	PASS
		High	2480	7.35	-47.6	≤ -12.65	PASS
		Low	Hop_2402	4.00	-39.55	≤ -16	PASS
		High	Hop_2480	7.09	-48.79	≤ -12.91	PASS

Test Graphs

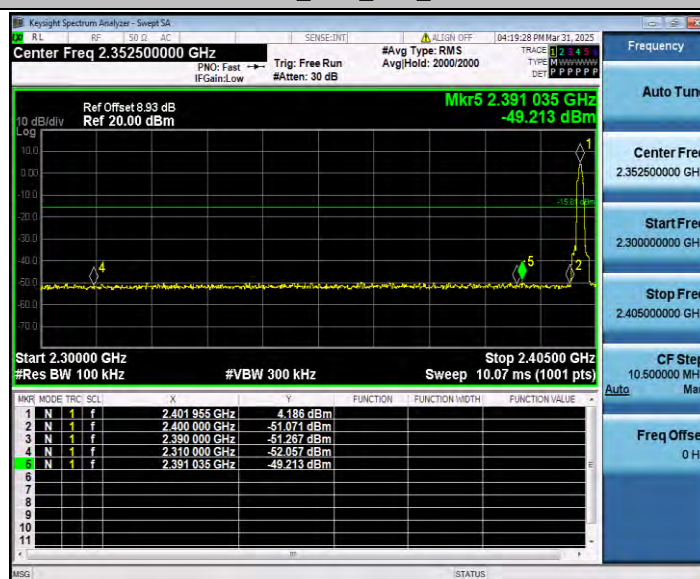




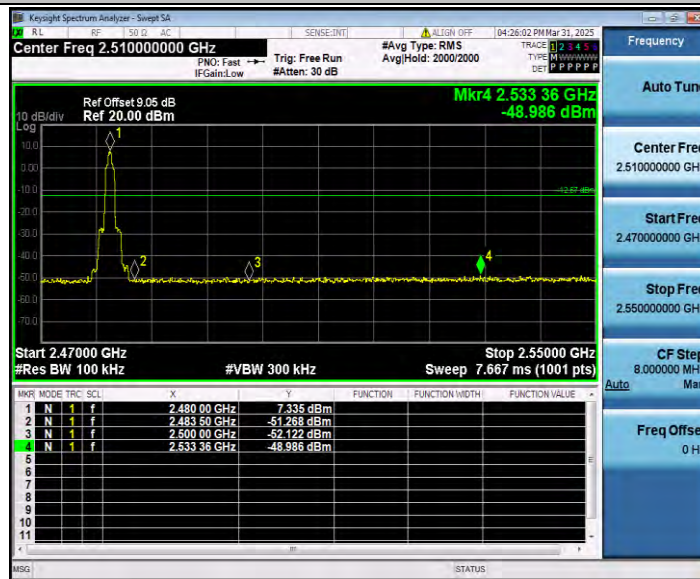
DH1_Ant1_High_Hop_2480



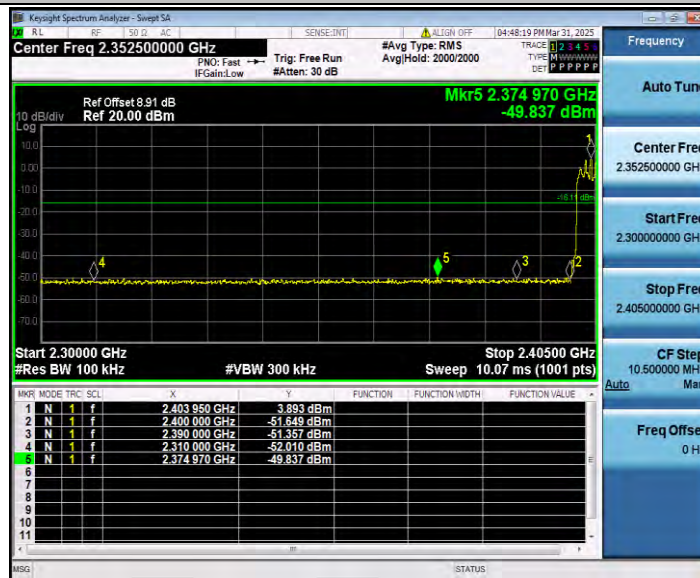
2DH1_Ant1_Low_2402



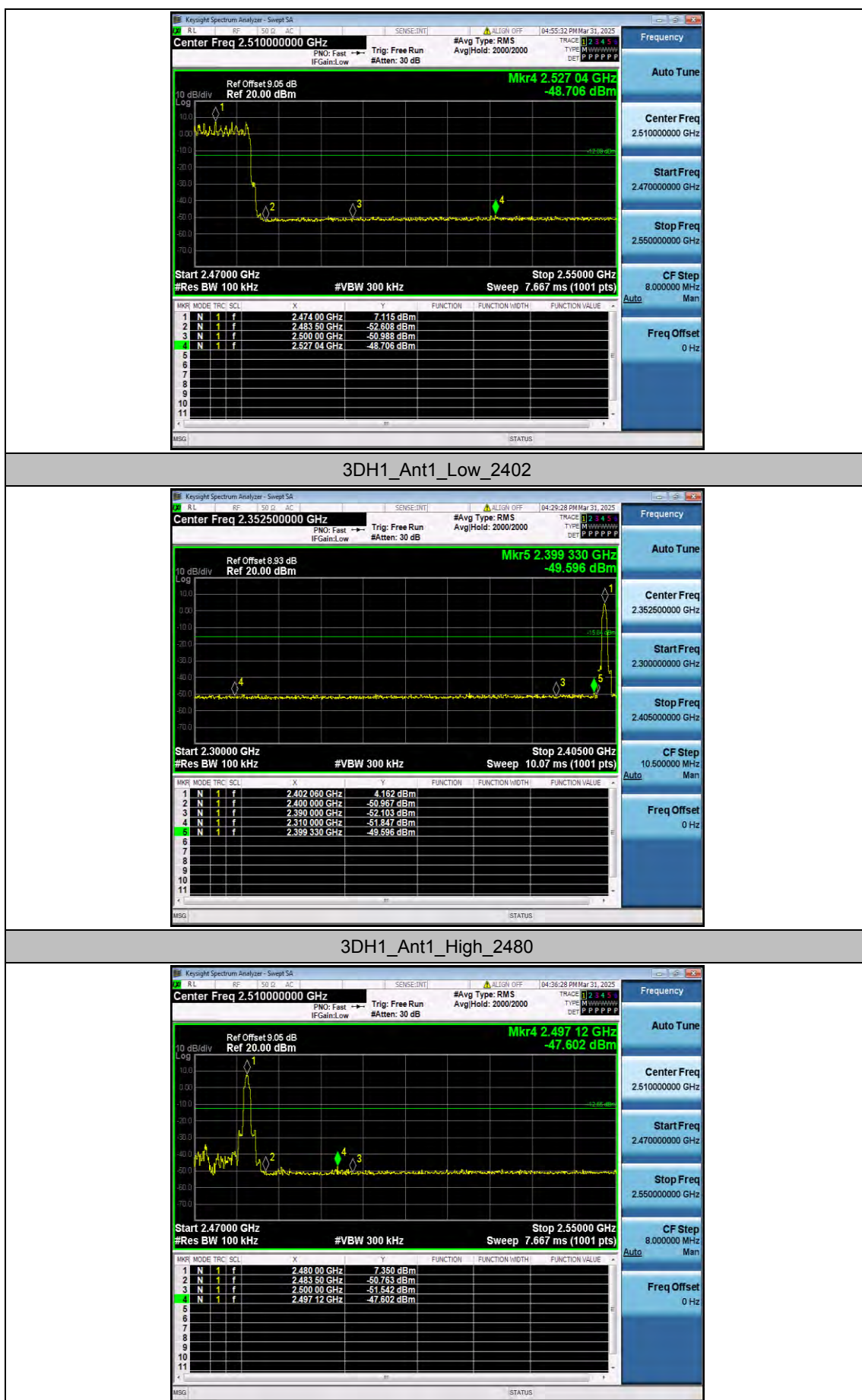
2DH1_Ant1_High_2480



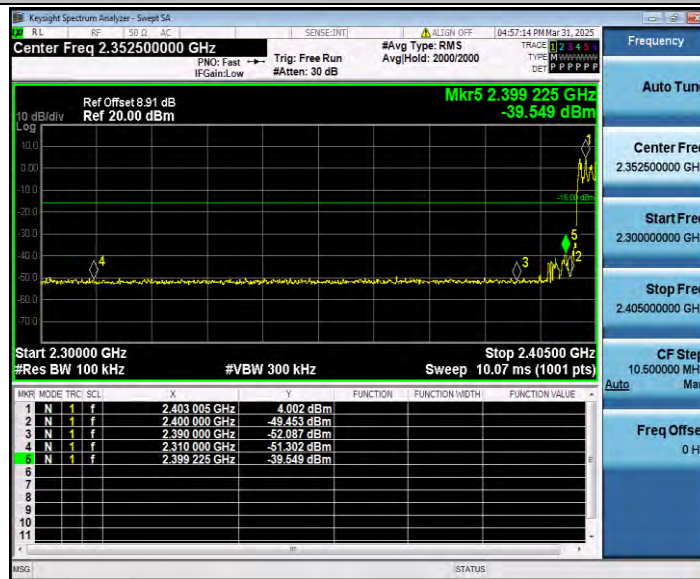
2DH1_Ant1_Low_Hop_2402



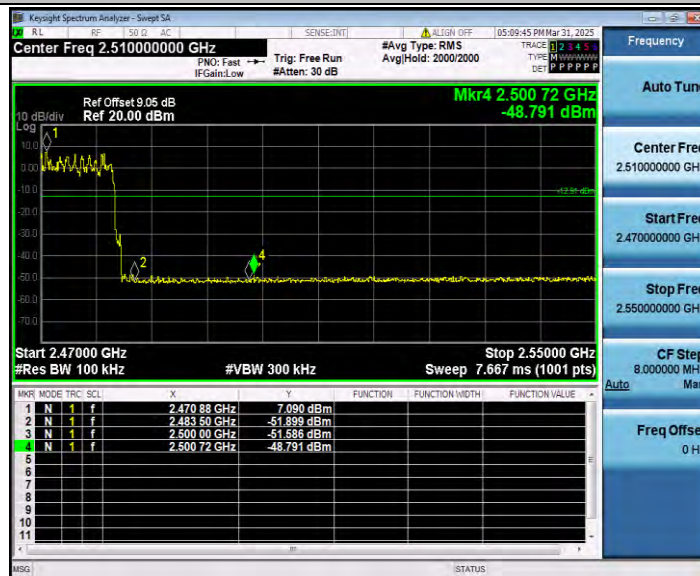
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

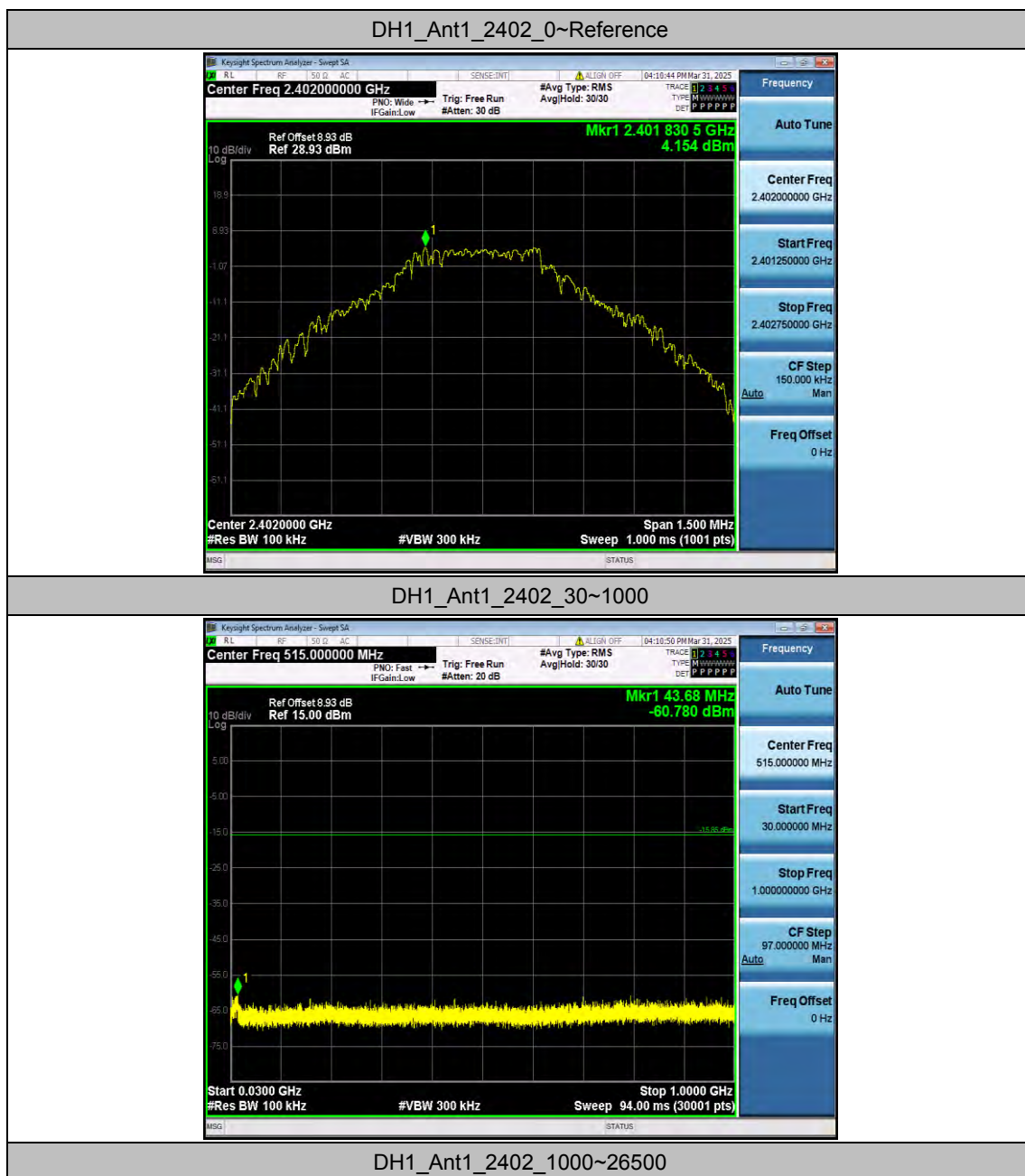


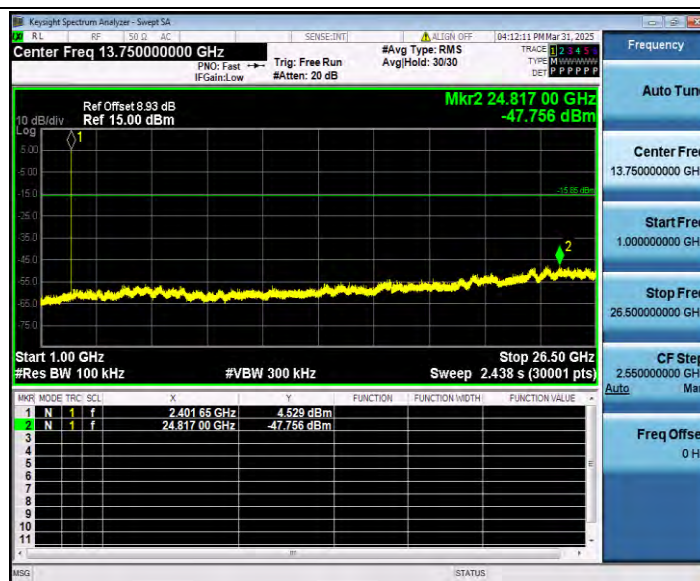
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-60.78	≤ -15.85	PASS
			1000~26500	4.15	-47.76	≤ -15.85	PASS
		2441	Reference	6.56	6.56	---	PASS
			30~1000	6.56	-56.9	≤ -13.44	PASS
			1000~26500	6.56	-47.88	≤ -13.44	PASS
		2480	Reference	7.04	7.04	---	PASS
			30~1000	7.04	-58.05	≤ -12.96	PASS
			1000~26500	7.04	-47.55	≤ -12.96	PASS
2DH1	Ant1	2402	Reference	3.41	3.41	---	PASS
			30~1000	3.41	-58.71	≤ -16.59	PASS
			1000~26500	3.41	-47.95	≤ -16.59	PASS
		2441	Reference	5.82	5.82	---	PASS
			30~1000	5.82	-58.85	≤ -14.18	PASS
			1000~26500	5.82	-47.48	≤ -14.18	PASS
		2480	Reference	5.83	5.83	---	PASS
			30~1000	5.83	-58.95	≤ -14.17	PASS
			1000~26500	5.83	-46.96	≤ -14.17	PASS
3DH1	Ant1	2402	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-59.33	≤ -16.47	PASS
			1000~26500	3.53	-48.1	≤ -16.47	PASS
		2441	Reference	5.81	5.81	---	PASS
			30~1000	5.81	-58.18	≤ -14.19	PASS
			1000~26500	5.81	-31.76	≤ -14.19	PASS
		2480	Reference	6.80	6.80	---	PASS
			30~1000	6.80	-59.55	≤ -13.2	PASS
			1000~26500	6.80	-47.75	≤ -13.2	PASS

Test Graphs

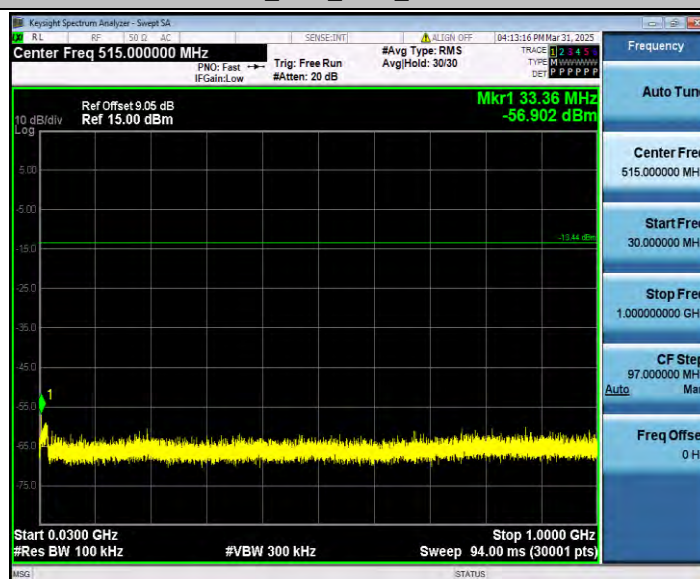




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



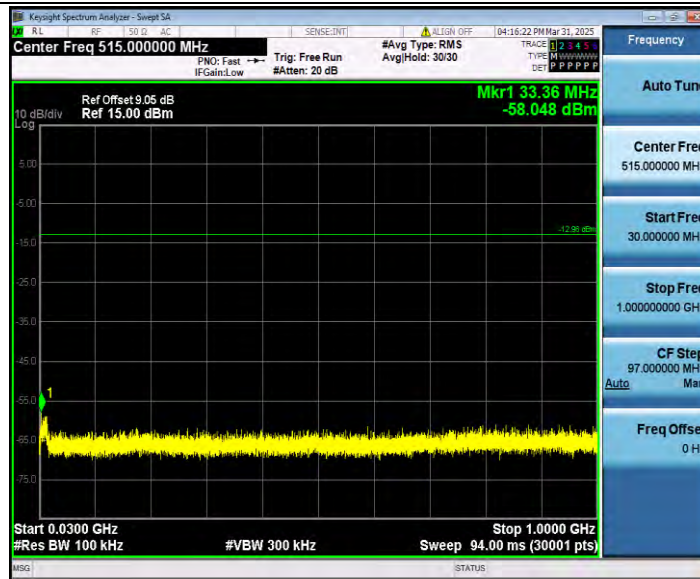
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

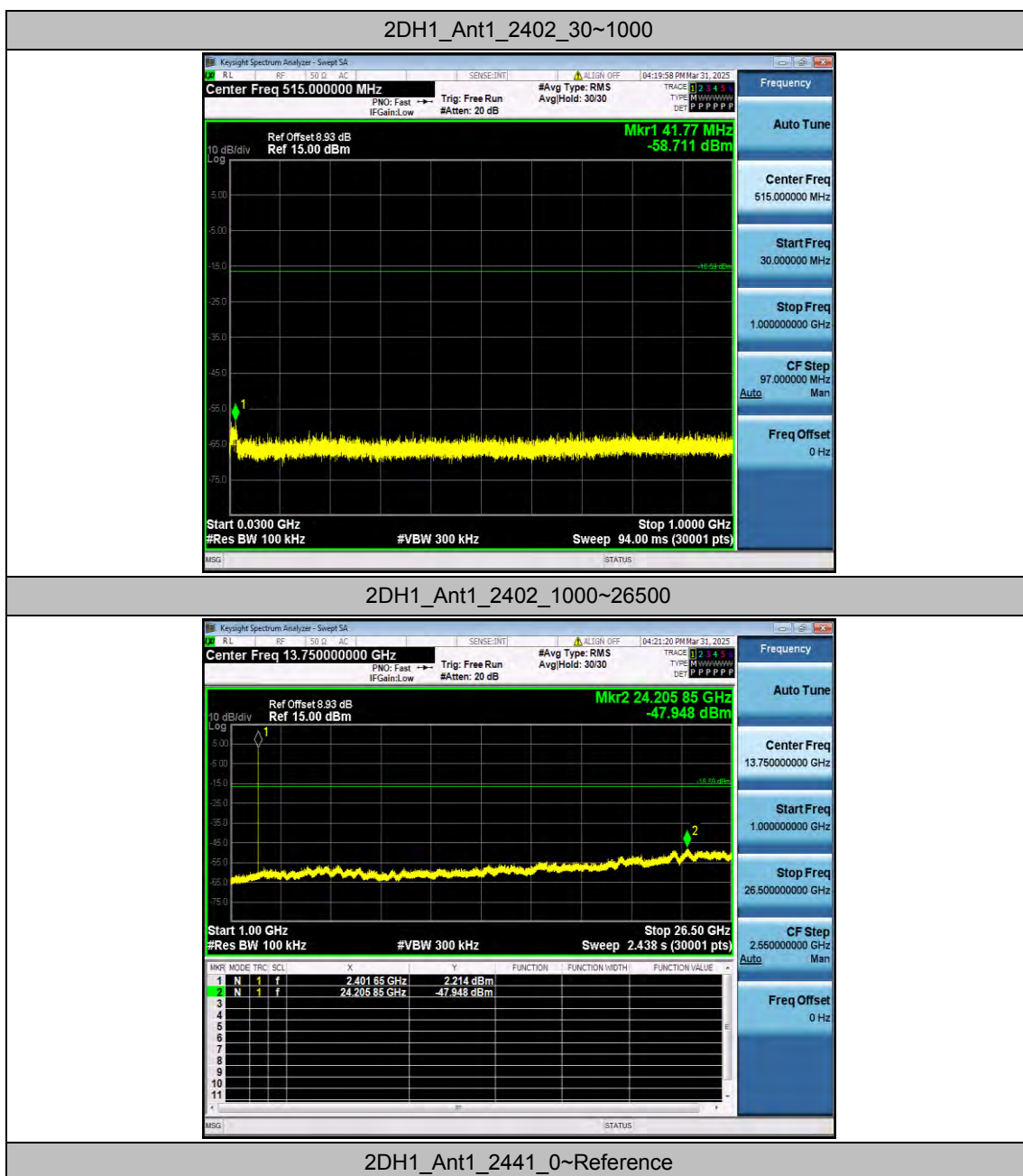


DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference

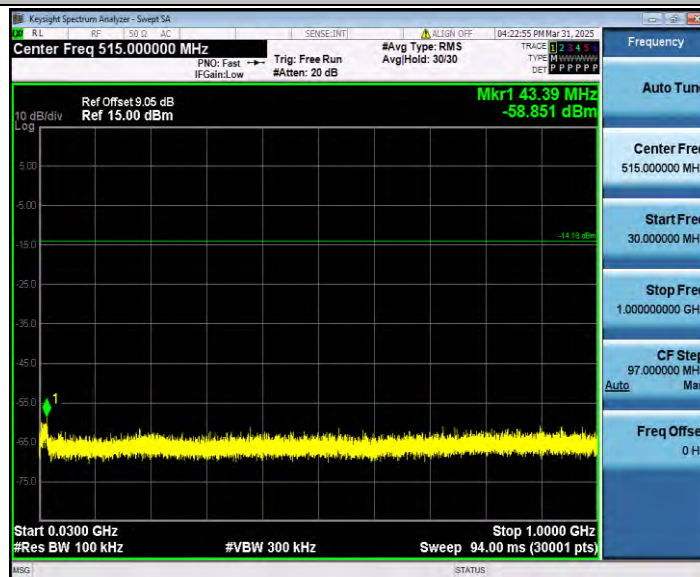




2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



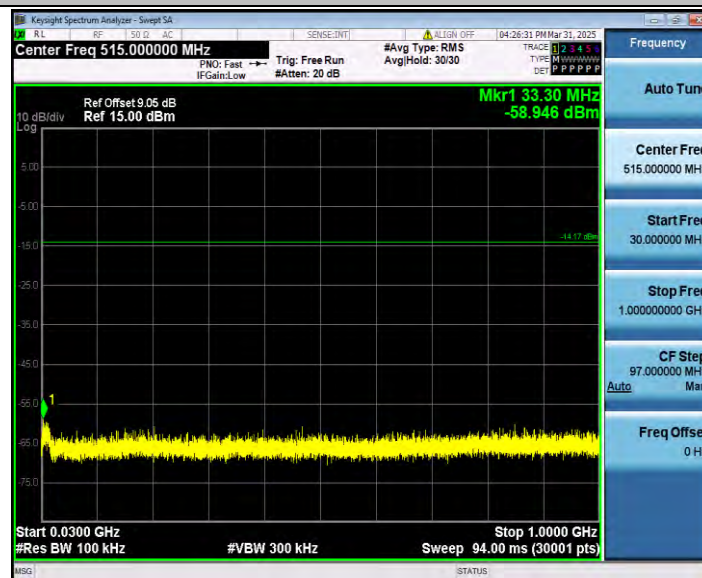
2DH1_Ant1_2441_1000~26500



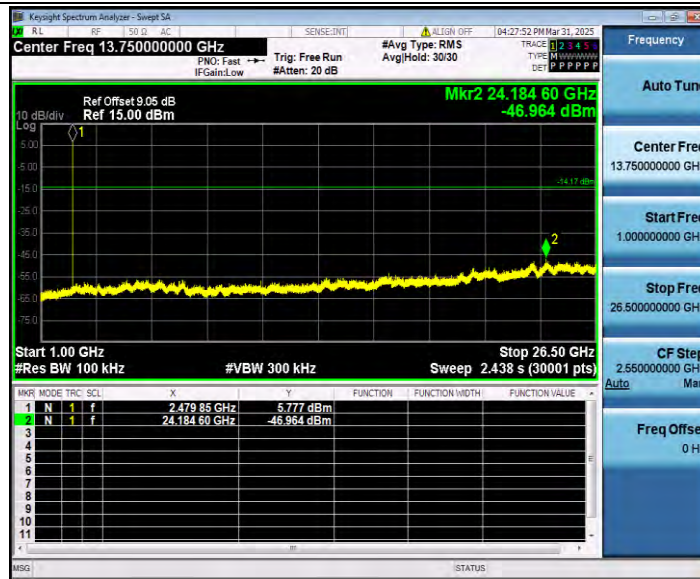
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



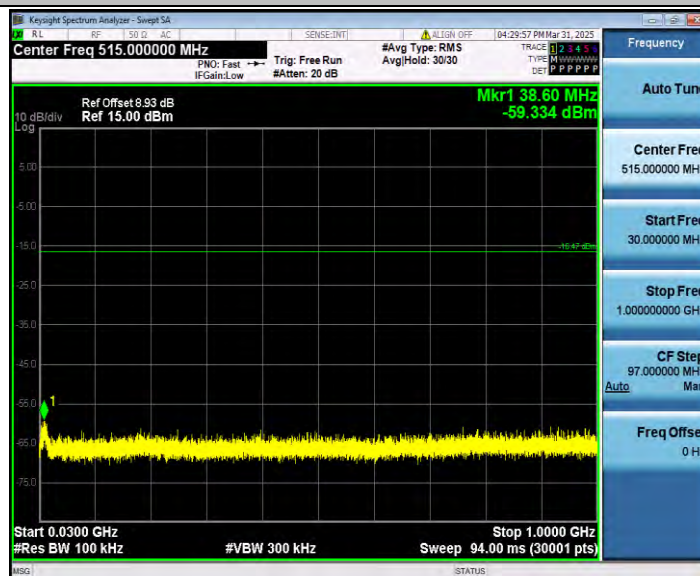
2DH1_Ant1_2480_1000~26500



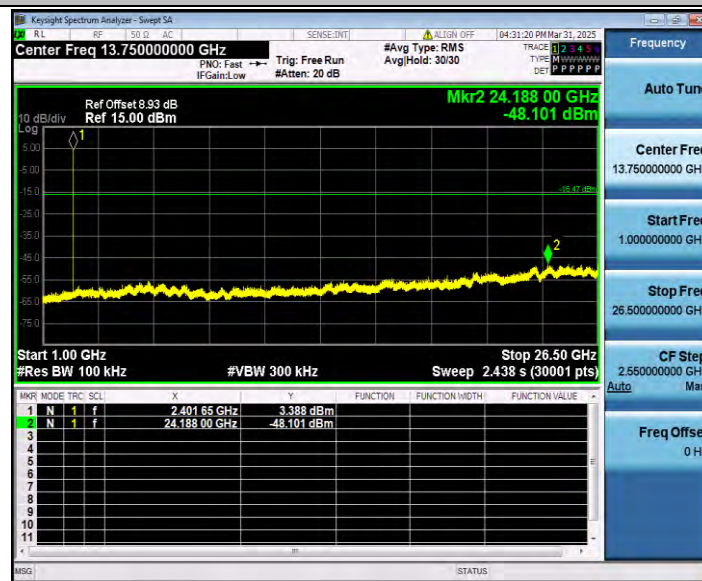
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



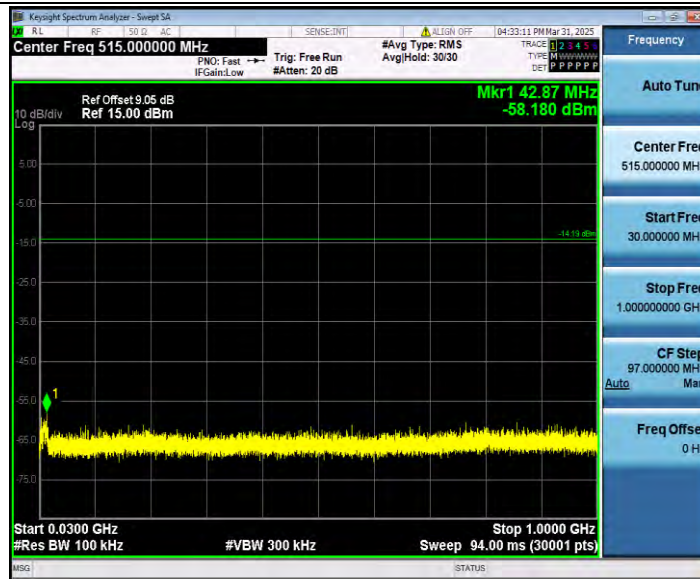
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

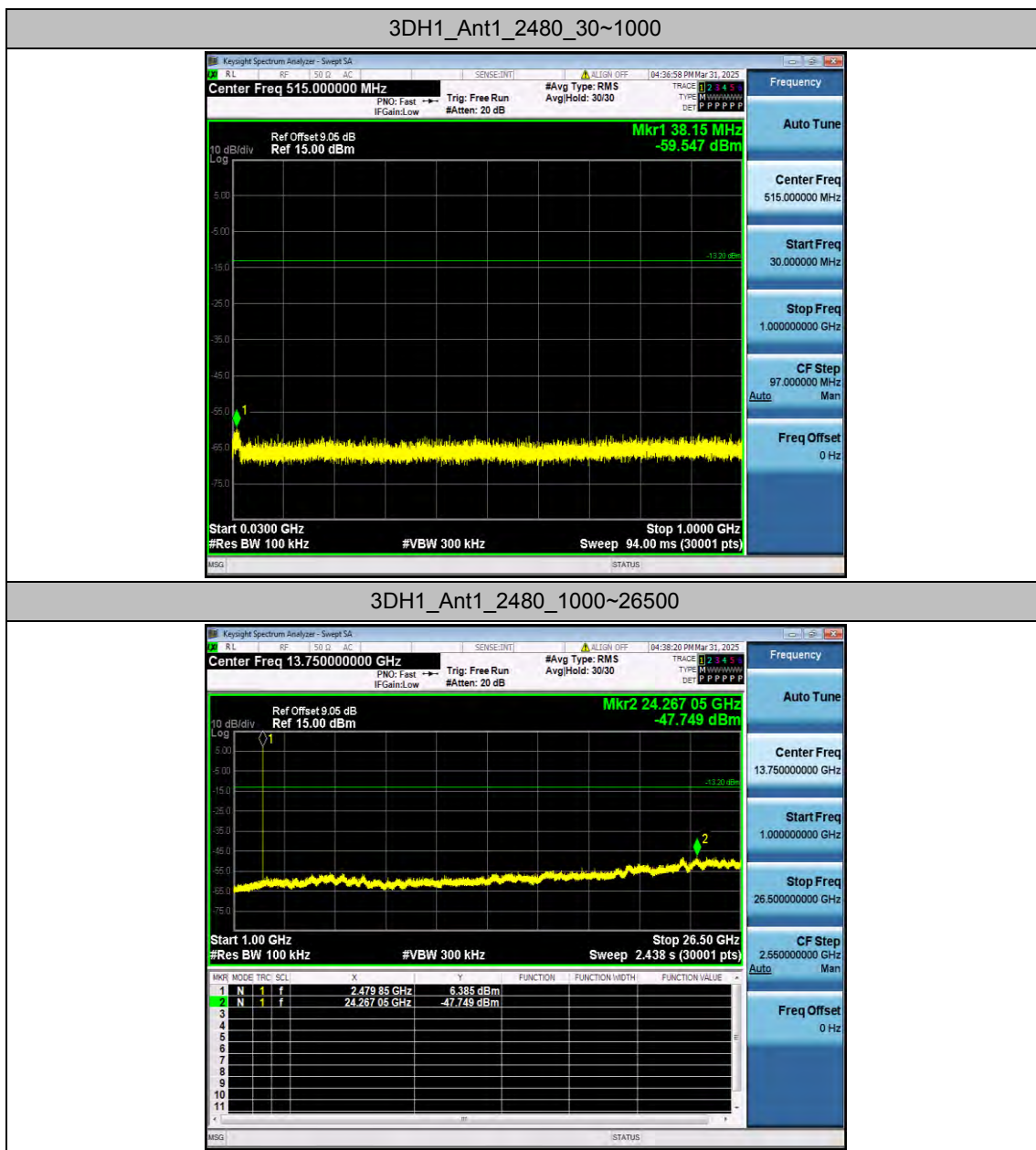


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

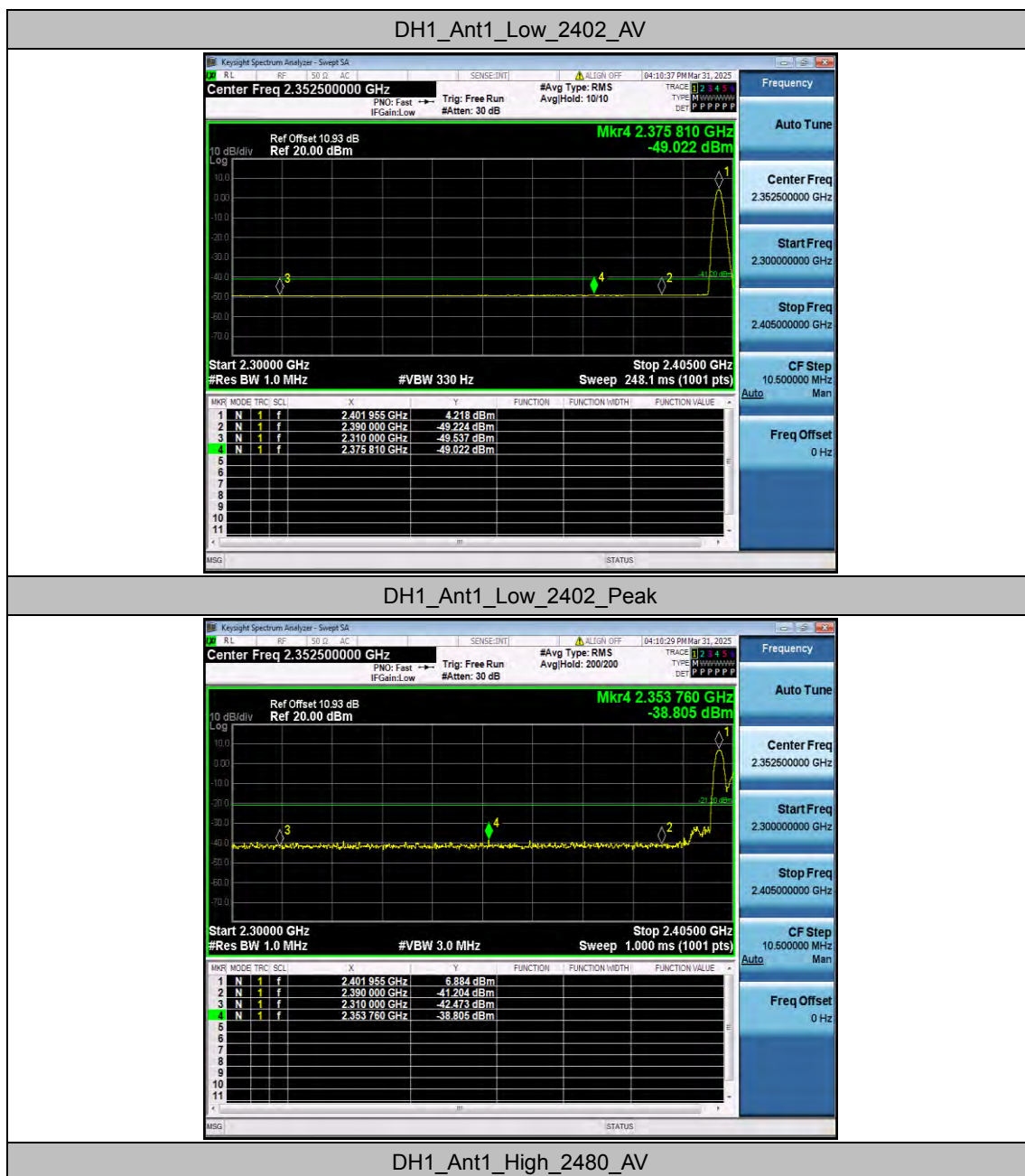
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.54	≤-41.20	45.66	≤54	PASS
				AV	2375.810	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2390.000	-49.22	≤-41.20	45.98	≤54	PASS
				Peak	2310.000	-42.47	≤-21.20	52.73	≤74	PASS
				Peak	2353.760	-38.81	≤-21.20	56.39	≤74	PASS
				Peak	2390.000	-41.2	≤-21.20	54.00	≤74	PASS
		High	2480	AV	2483.500	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2483.520	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2500.000	-48.88	≤-41.20	46.32	≤54	PASS
				Peak	2483.500	-41.55	≤-21.20	53.65	≤74	PASS
				Peak	2492.400	-39.18	≤-21.20	56.02	≤74	PASS
				Peak	2500.000	-41.69	≤-21.20	53.51	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.4	≤-41.20	45.80	≤54	PASS
				AV	2388.095	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2390.000	-49.29	≤-41.20	45.91	≤54	PASS
				Peak	2310.000	-41.34	≤-21.20	53.86	≤74	PASS
				Peak	2370.770	-38.9	≤-21.20	56.30	≤74	PASS
				Peak	2390.000	-41.68	≤-21.20	53.52	≤74	PASS
		High	2480	AV	2483.500	-47.95	≤-41.20	47.25	≤54	PASS
				AV	2487.520	-43.41	≤-41.20	51.79	≤54	PASS
				AV	2500.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2483.500	-40.9	≤-21.20	54.30	≤74	PASS
				Peak	2497.520	-39.24	≤-21.20	55.96	≤74	PASS
				Peak	2500.000	-40.57	≤-21.20	54.63	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.57	≤-41.20	45.63	≤54	PASS
				AV	2381.900	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2390.000	-49.2	≤-41.20	46.00	≤54	PASS
				Peak	2310.000	-42.06	≤-21.20	53.14	≤74	PASS
				Peak	2357.750	-38.14	≤-21.20	57.06	≤74	PASS
				Peak	2390.000	-41.58	≤-21.20	53.62	≤74	PASS
		High	2480	AV	2483.500	-47.88	≤-41.20	47.32	≤54	PASS
				AV	2483.520	-47.88	≤-41.20	47.32	≤54	PASS
				AV	2500.000	-48.8	≤-41.20	46.40	≤54	PASS
				Peak	2483.500	-38.8	≤-21.20	56.40	≤74	PASS
				Peak	2491.440	-38.36	≤-21.20	56.84	≤74	PASS

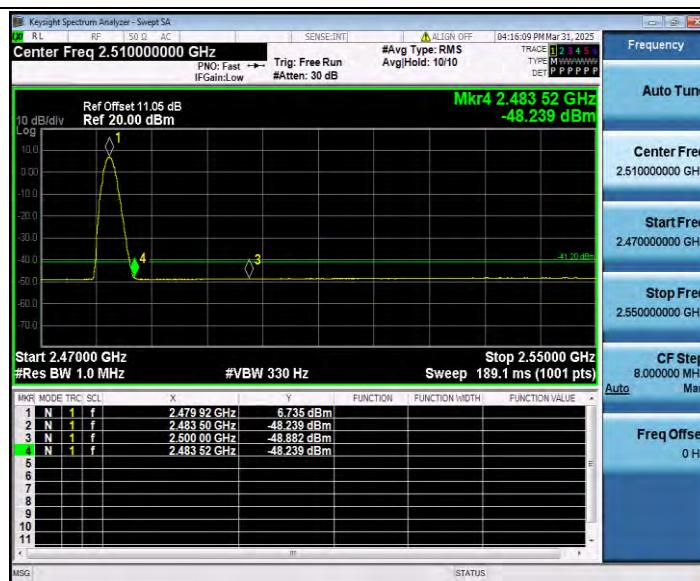
				Peak	2500.000	-40.58	≤ -21.20	54.62	≤ 74	PASS
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Note:

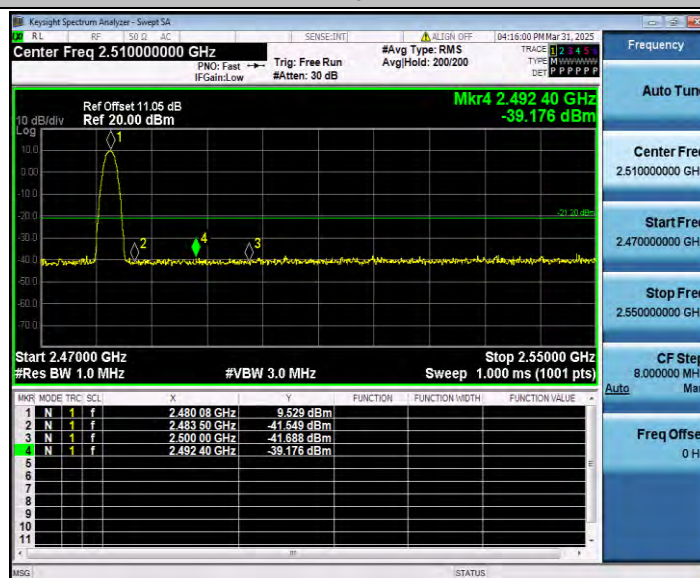
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

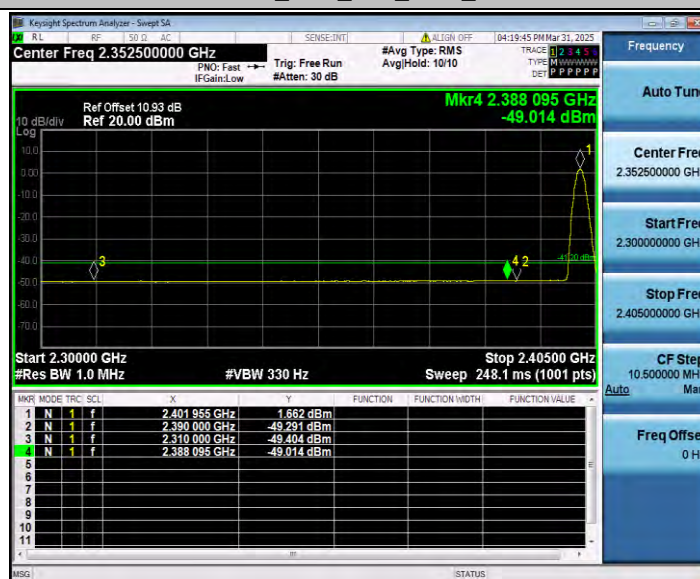




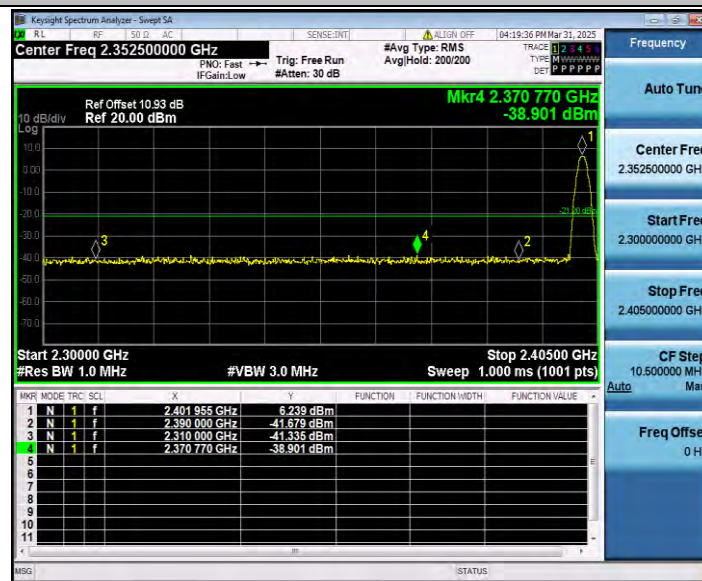
DH1_Ant1_High_2480_Peak



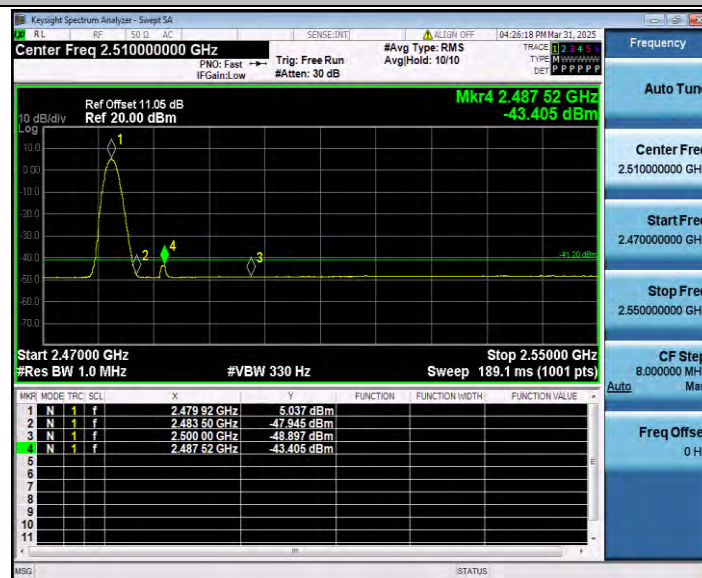
2DH1_Ant1_Low_2402_AV



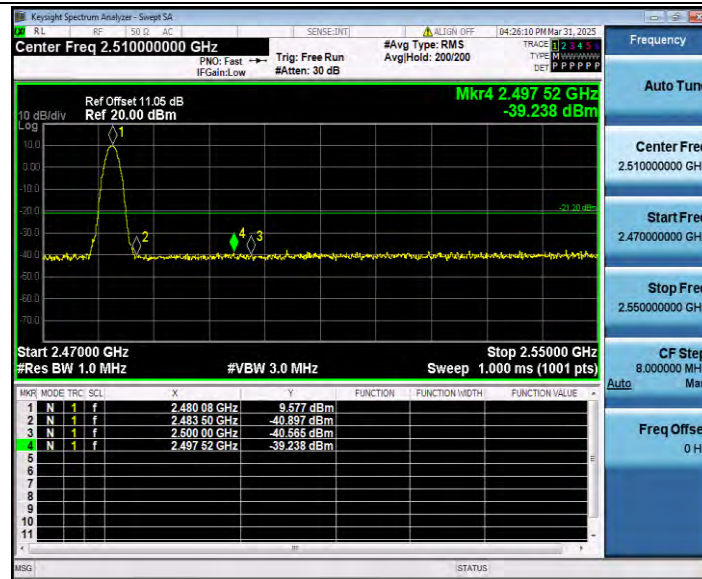
2DH1_Ant1_Low_2402_Peak



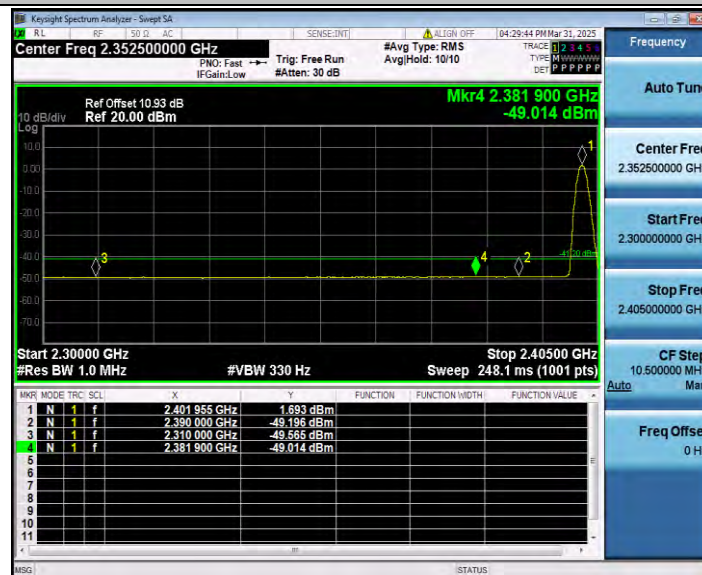
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

