

Case No. : <u>GTS20250116009-1-01</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.2.14</u>	Test Engineer: <u>Evan ouyang</u>

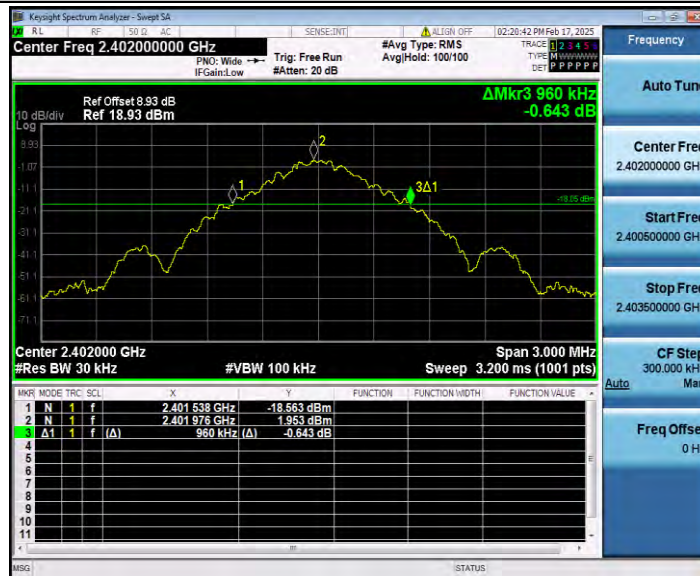
Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.960	2401.538	2402.498	---	---
		2441	0.963	2440.532	2441.495	---	---
		2480	0.963	2479.535	2480.498	---	---
2DH1	Ant1	2402	1.374	2401.316	2402.690	---	---
		2441	1.365	2440.322	2441.687	---	---
		2480	1.374	2479.313	2480.687	---	---
3DH1	Ant1	2402	1.353	2401.322	2402.675	---	---
		2441	1.353	2440.322	2441.675	---	---
		2480	1.353	2479.322	2480.675	---	---

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



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	0.88577	2401.5602	2402.4459	---	---
		2441	0.88494	2440.5581	2441.4430	---	---
		2480	0.88578	2479.5575	2480.4433	---	---
2DH1	Ant1	2402	1.2022	2401.4001	2402.6023	---	---
		2441	1.1978	2440.4022	2441.6000	---	---
		2480	1.1980	2479.4016	2480.5996	---	---
3DH1	Ant1	2402	1.2059	2401.3892	2402.5951	---	---
		2441	1.2047	2440.3899	2441.5946	---	---
		2480	1.2048	2479.3889	2480.5937	---	---

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



3DH1_Ant1_2480



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	4.75	≤20.97	PASS
		2441	4.11	≤20.97	PASS
		2480	3.51	≤20.97	PASS
2DH1	Ant1	2402	6.37	≤20.97	PASS
		2441	5.81	≤20.97	PASS
		2480	5.19	≤20.97	PASS
3DH1	Ant1	2402	6.92	≤20.97	PASS
		2441	6.42	≤20.97	PASS
		2480	5.78	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.162	≥ 0.642	PASS
		Hop_2441	0.994	≥ 0.642	PASS
		Hop_2480	0.832	≥ 0.642	PASS
2DH1	Ant1	Hop_2402	1.156	≥ 0.916	PASS
		Hop_2441	1.008	≥ 0.916	PASS
		Hop_2480	1.166	≥ 0.916	PASS
3DH1	Ant1	Hop_2402	1.156	≥ 0.902	PASS
		Hop_2441	1.16	≥ 0.902	PASS
		Hop_2480	1.158	≥ 0.902	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



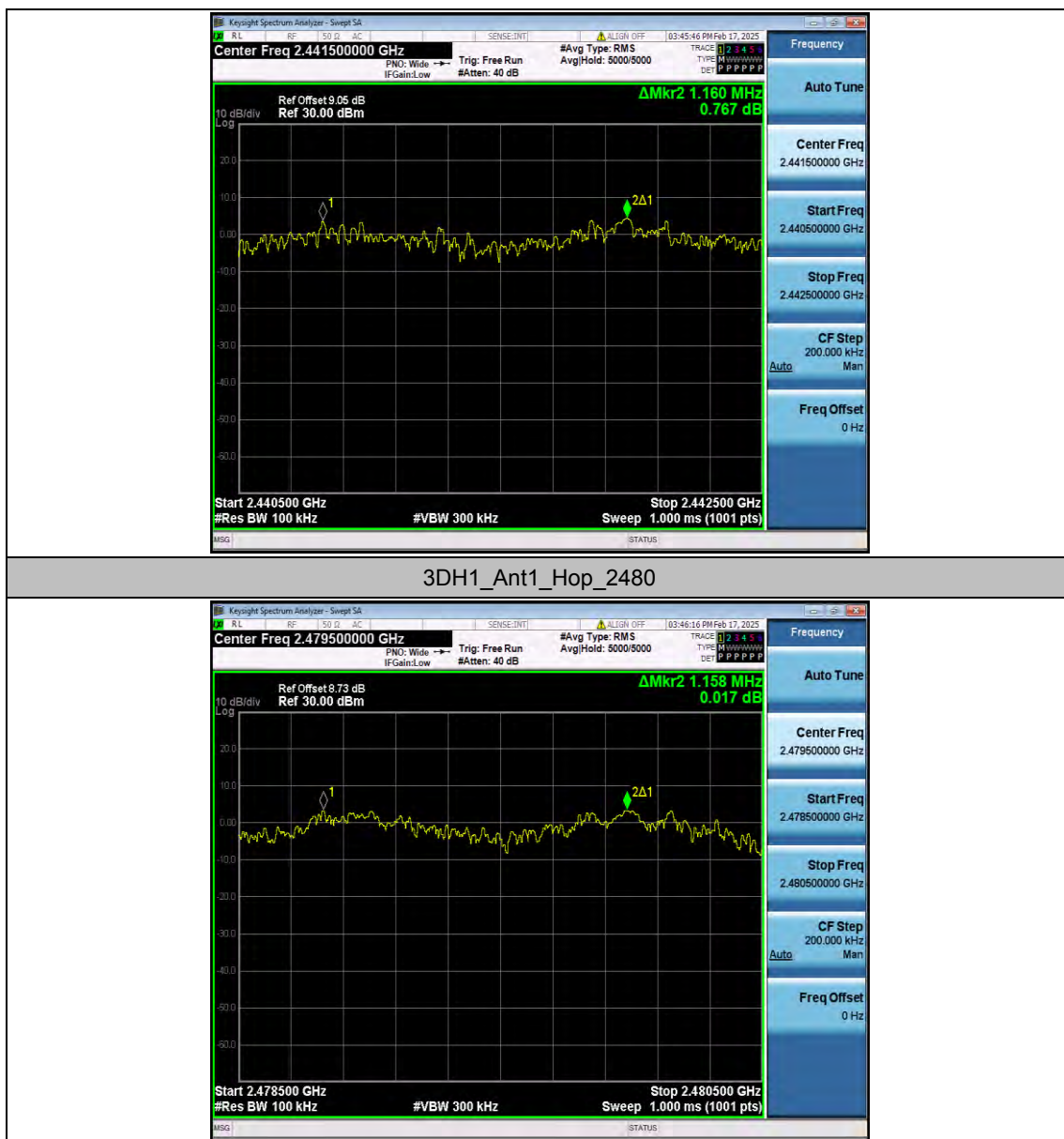
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

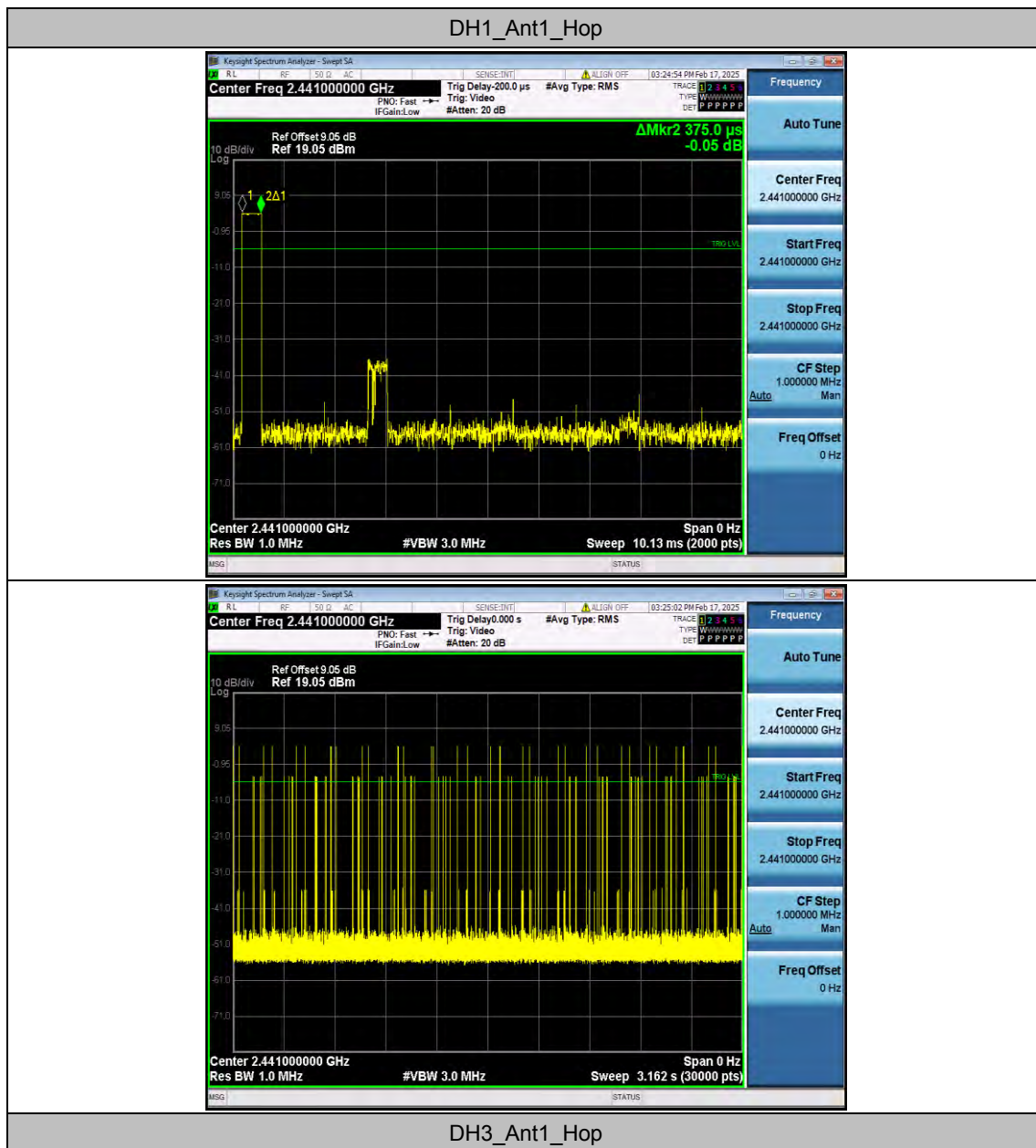


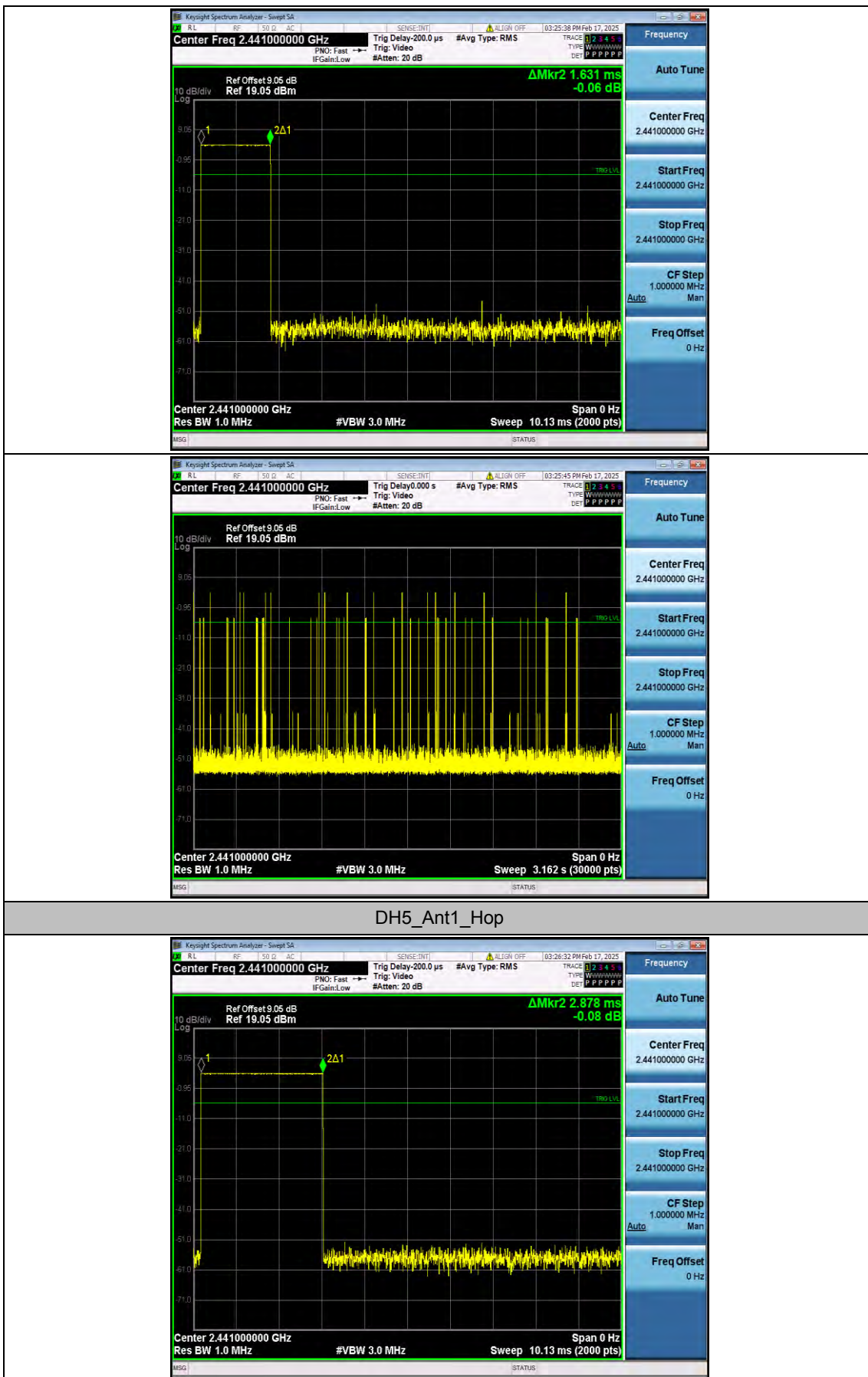
Appendix A.5: Time of occupancy

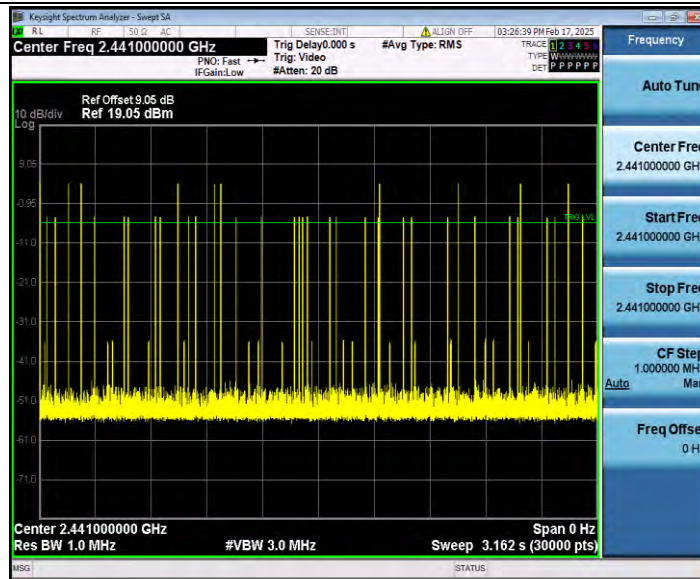
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.631	170	0.277	≤0.4	PASS
DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.631	200	0.326	≤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	150	0.244	≤0.4	PASS
3DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS

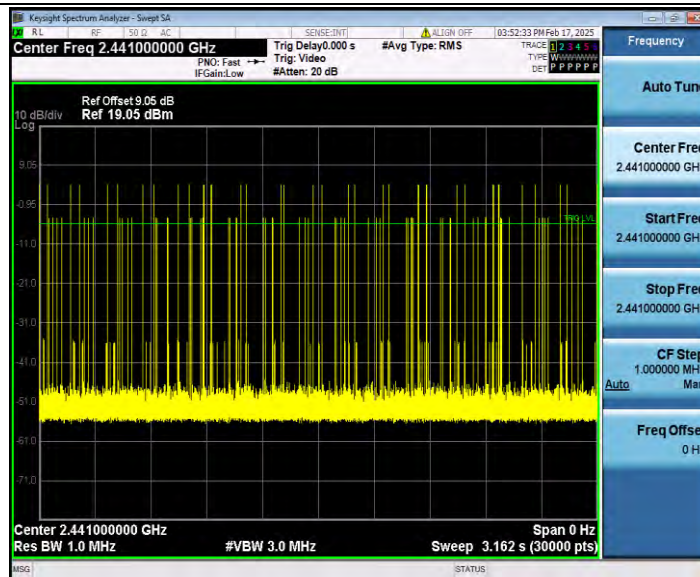
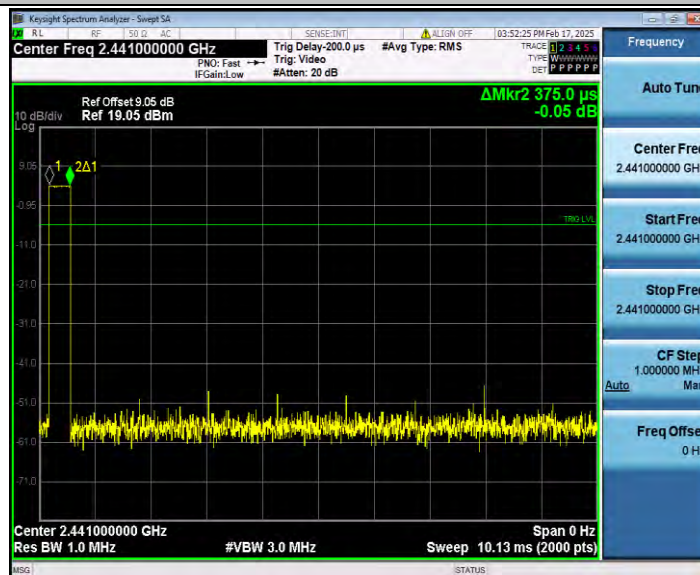
Test Graphs



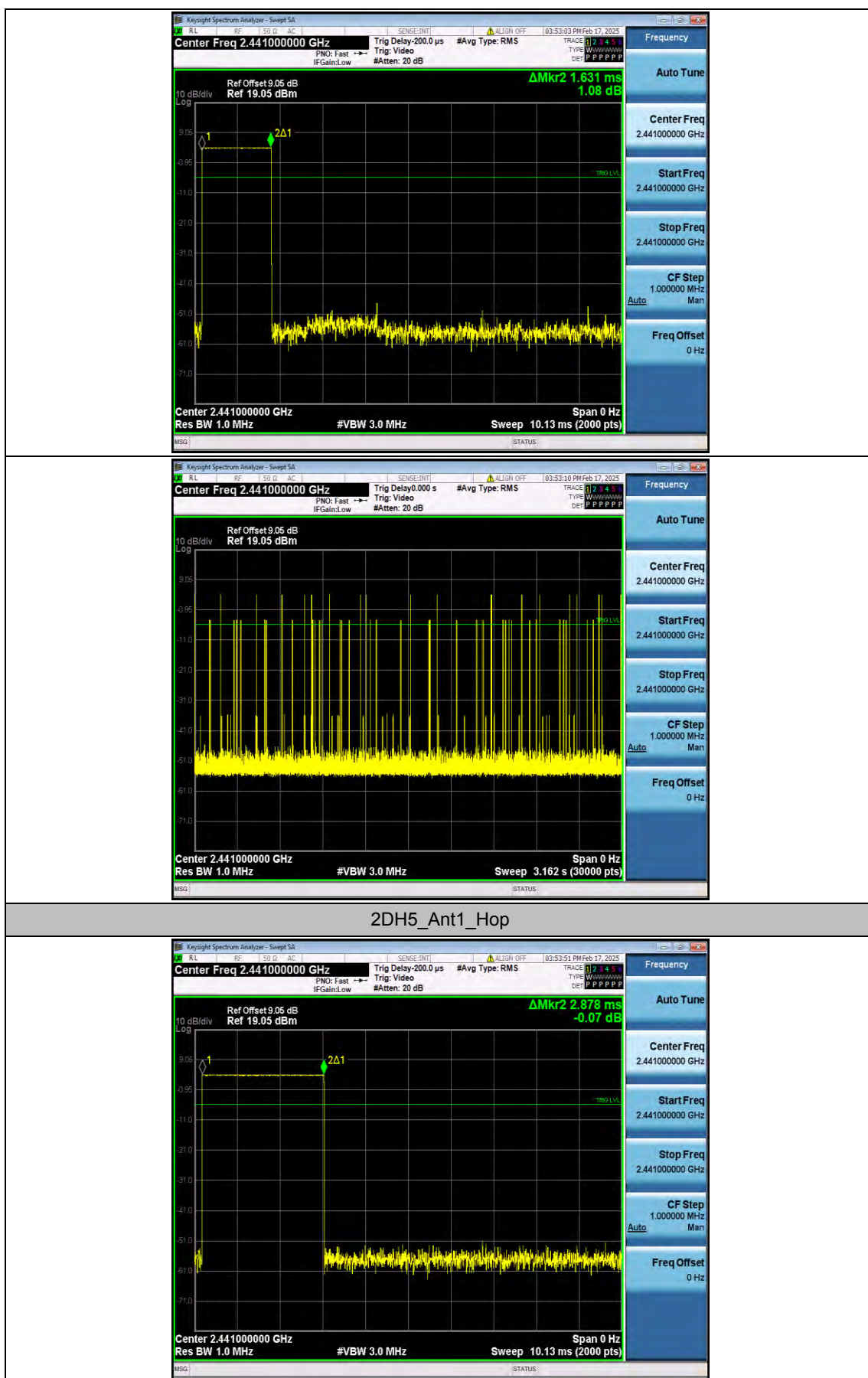


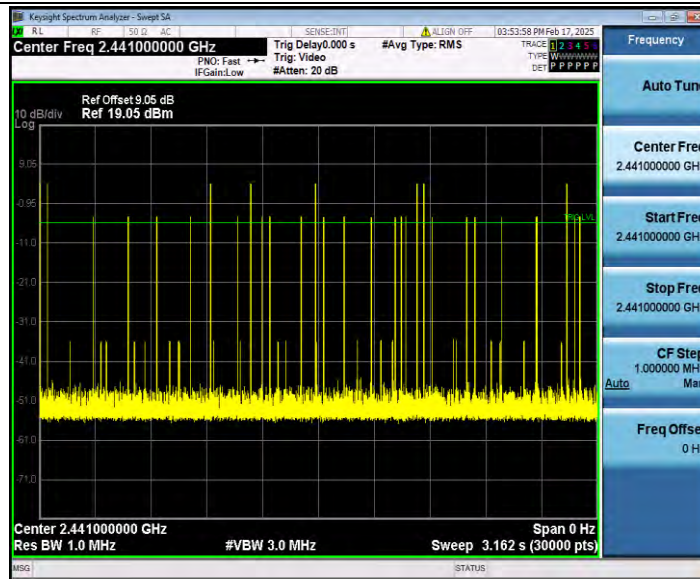


2DH1_Ant1_Hop

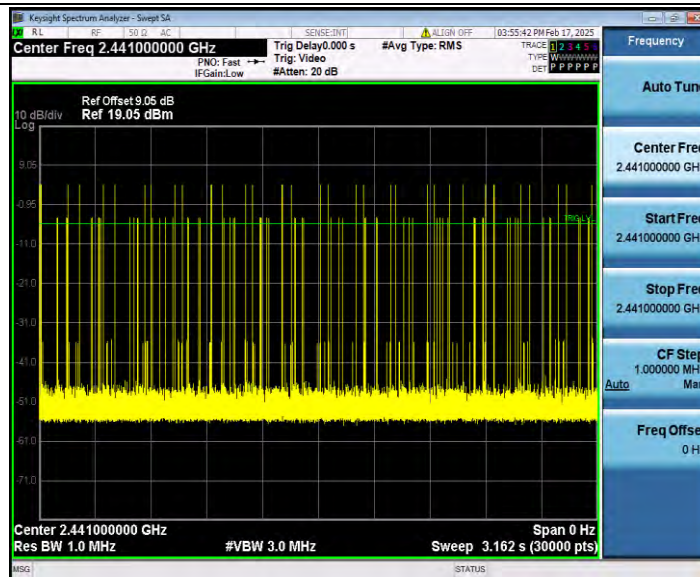
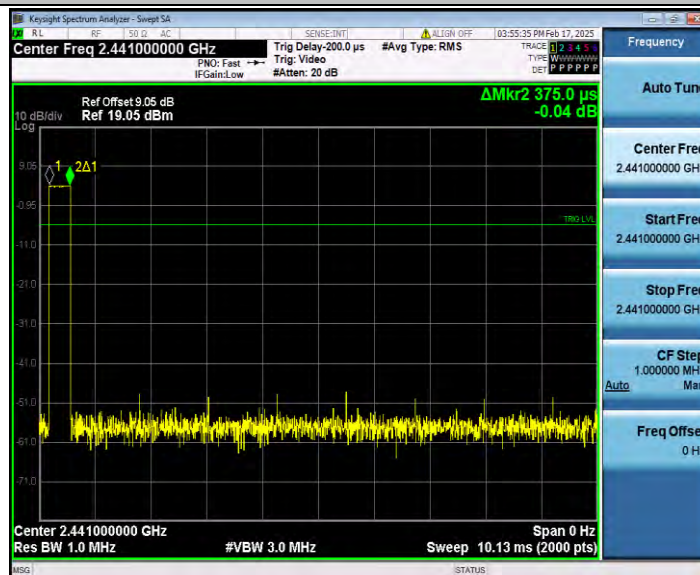


2DH3_Ant1_Hop

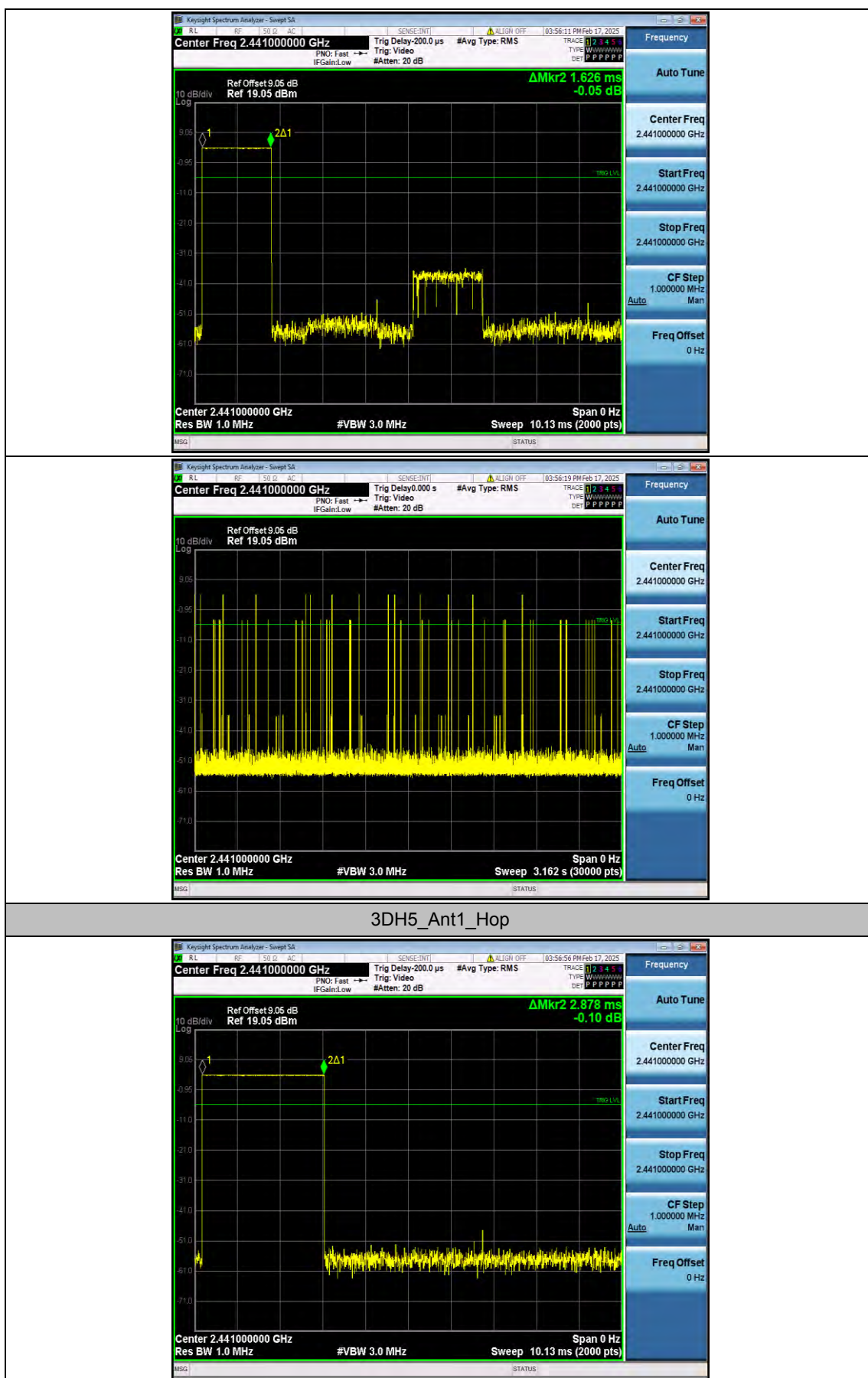




3DH1_Ant1_Hop



3DH3_Ant1_Hop



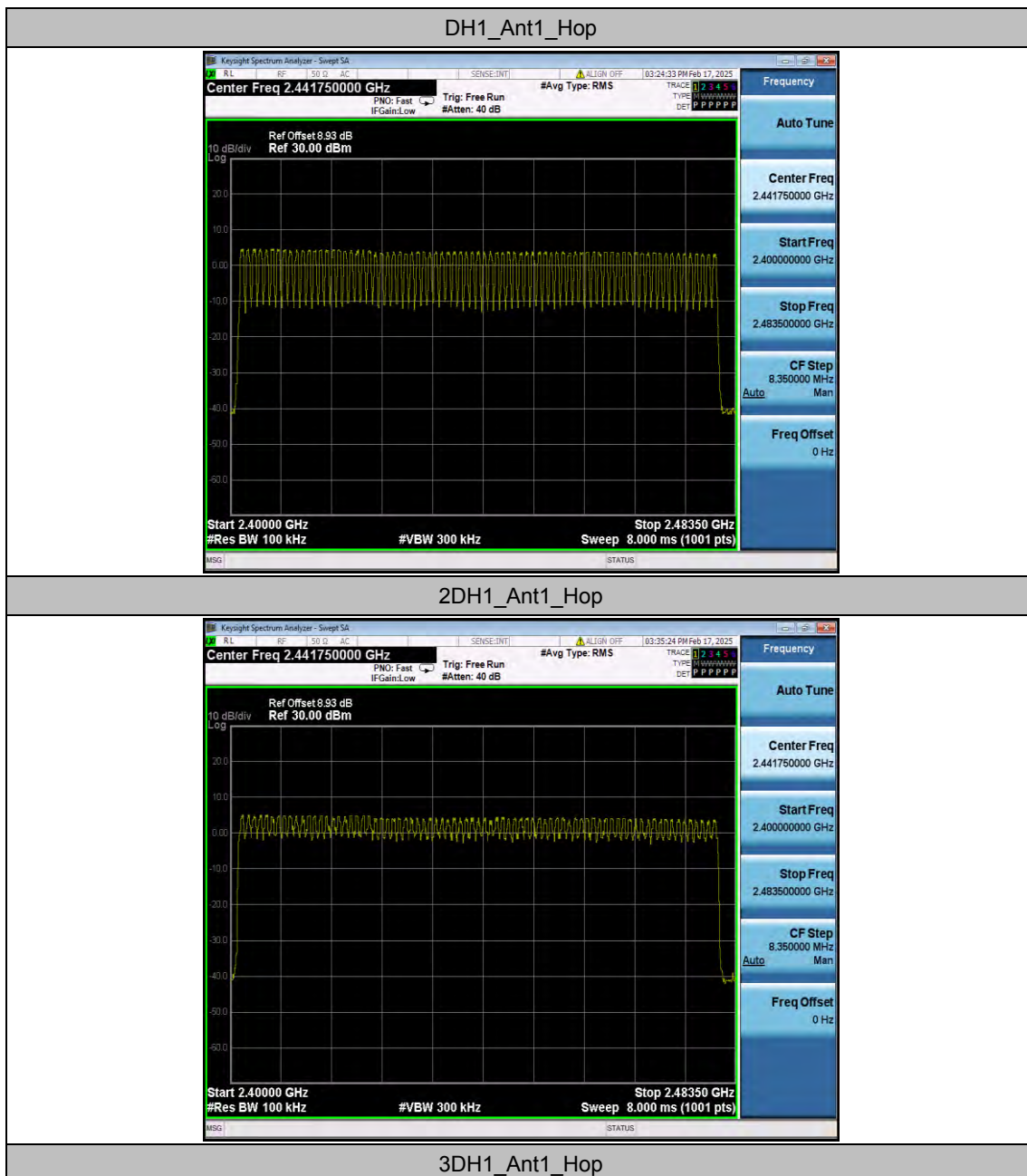


Appendix A.6: Number of hopping channels

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



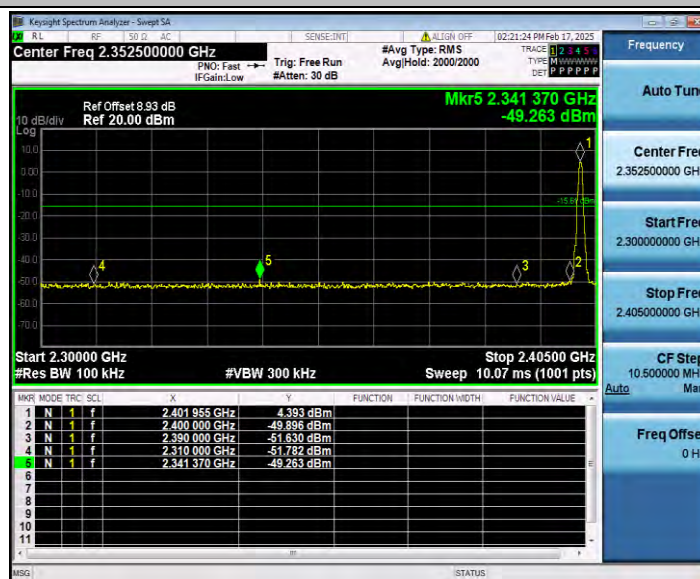
Appendix A.7: Band edge measurements

Test Result

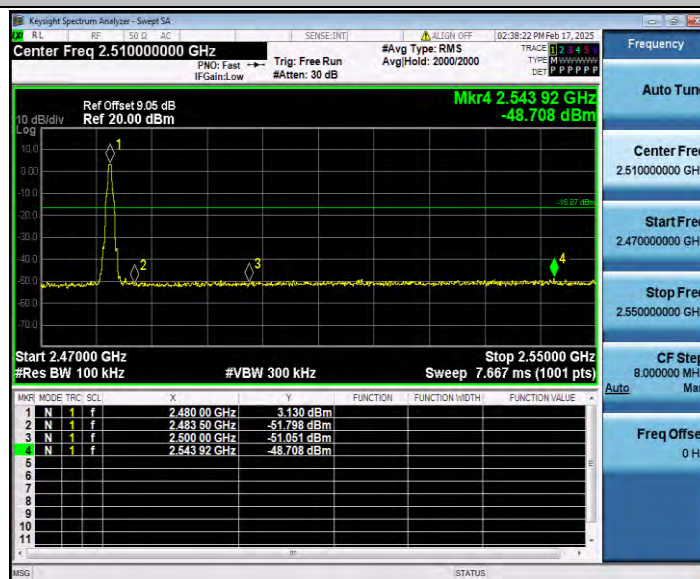
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	4.39	-49.26	≤ -15.61	PASS
		High	2480	3.13	-48.71	≤ -16.87	PASS
		Low	Hop_2402	4.23	-49.66	≤ -15.77	PASS
		High	Hop_2480	3.52	-49	≤ -16.48	PASS
2DH1	Ant1	Low	2402	2.55	-42.81	≤ -17.45	PASS
		High	2480	1.32	-48.42	≤ -18.69	PASS
		Low	Hop_2402	4.90	-48.79	≤ -15.1	PASS
		High	Hop_2480	3.51	-49.21	≤ -16.49	PASS
3DH1	Ant1	Low	2402	2.72	-49.11	≤ -17.28	PASS
		High	2480	1.47	-47.41	≤ -18.53	PASS
		Low	Hop_2402	4.97	-49.13	≤ -15.03	PASS
		High	Hop_2480	3.42	-48.52	≤ -16.58	PASS

Test Graphs

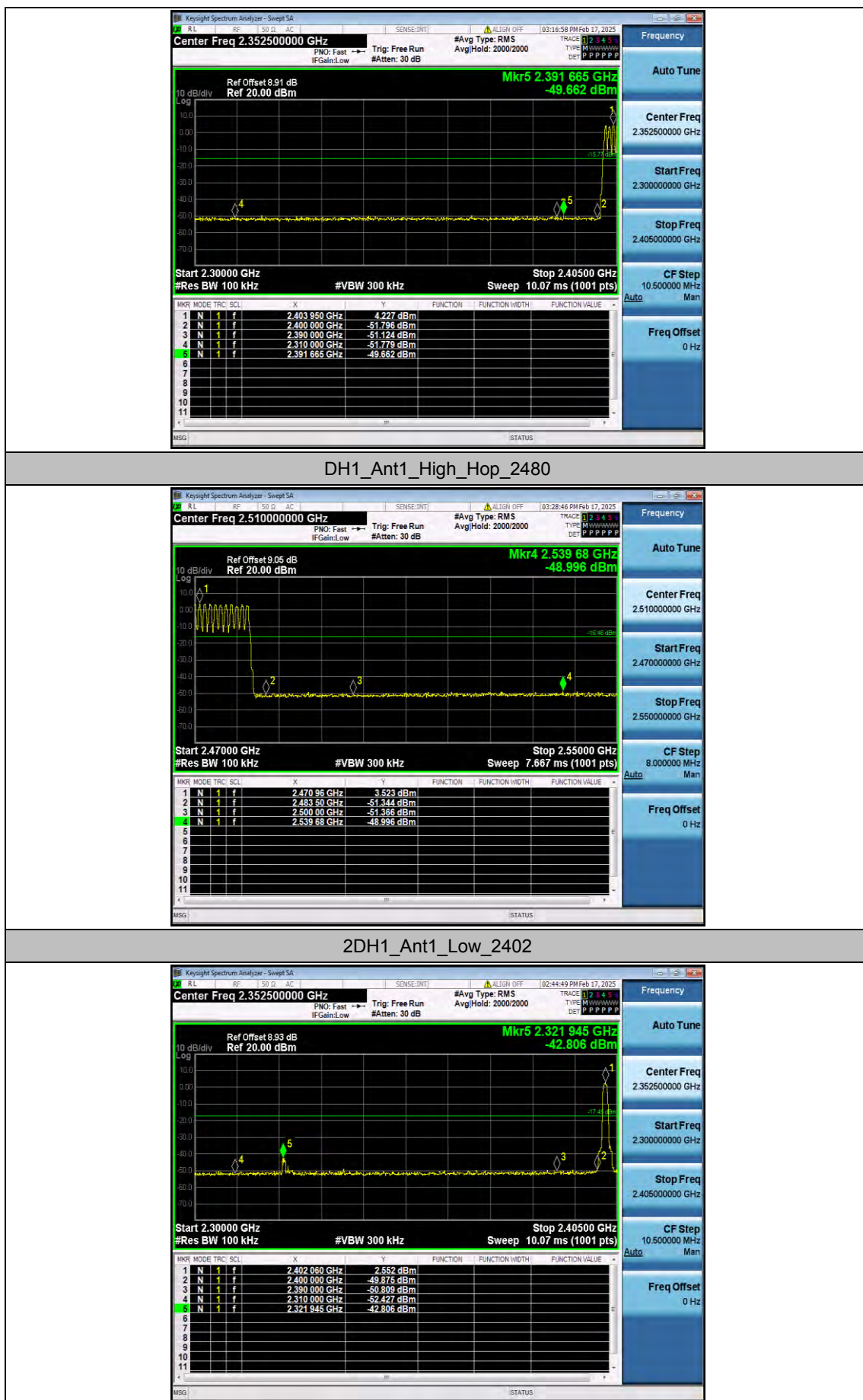
DH1_Ant1_Low_2402



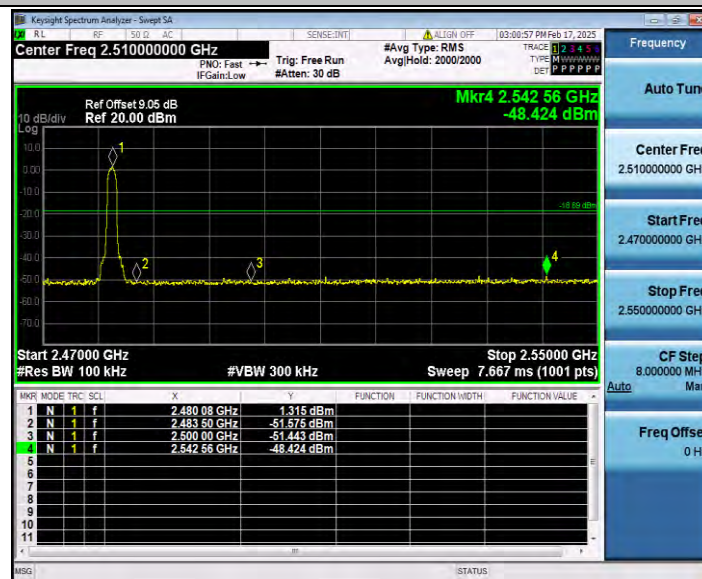
DH1_Ant1_High_2480



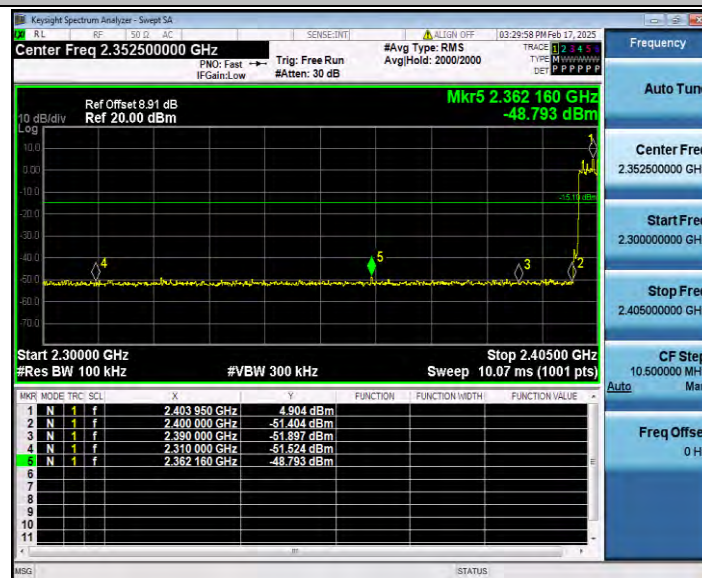
DH1_Ant1_Low_Hop_2402



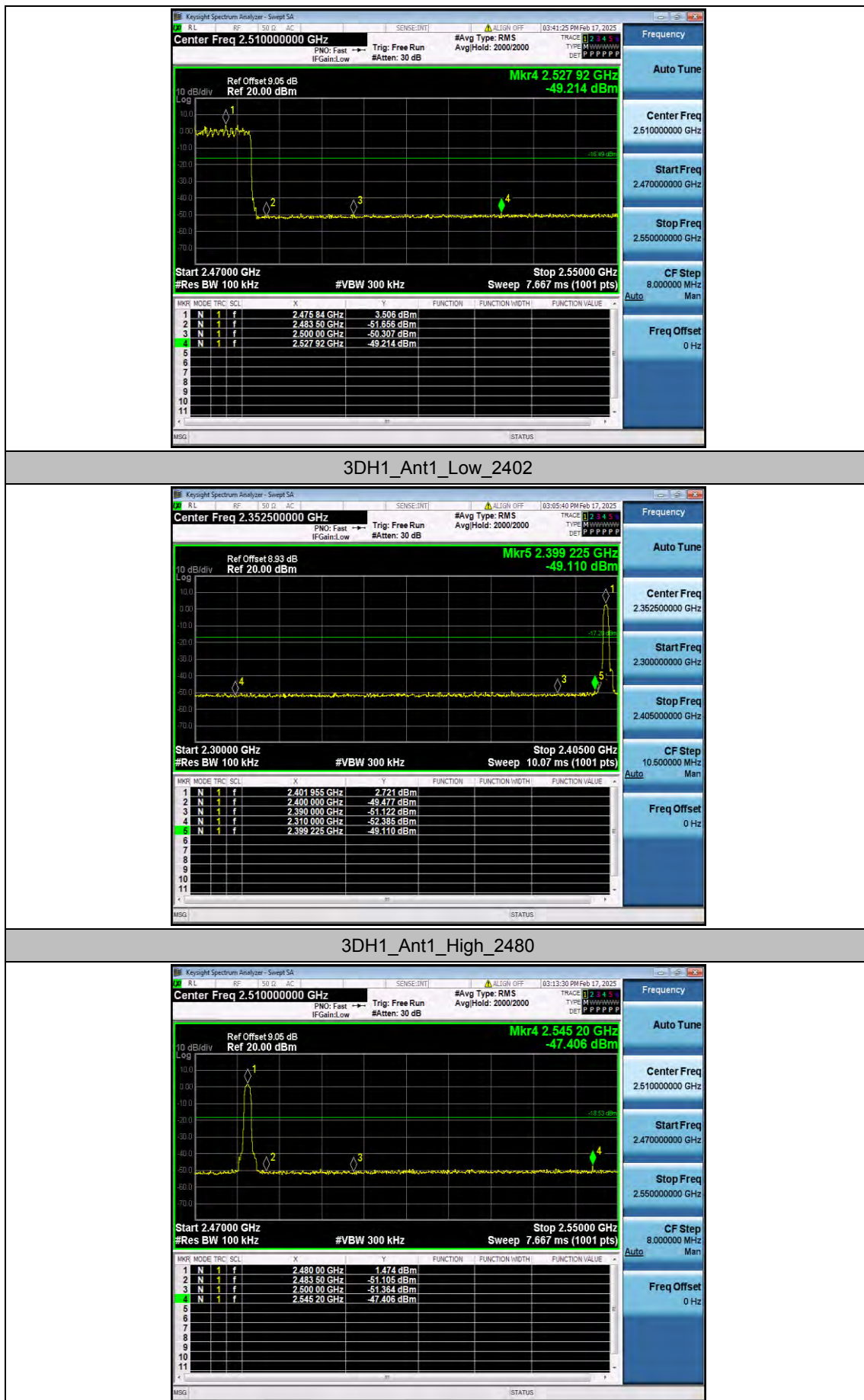
2DH1_Ant1_High_2480



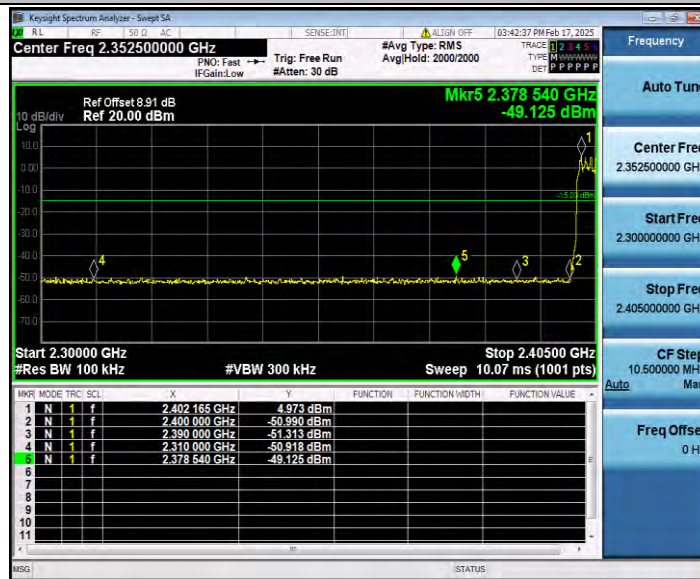
2DH1_Ant1_Low_Hop_2402



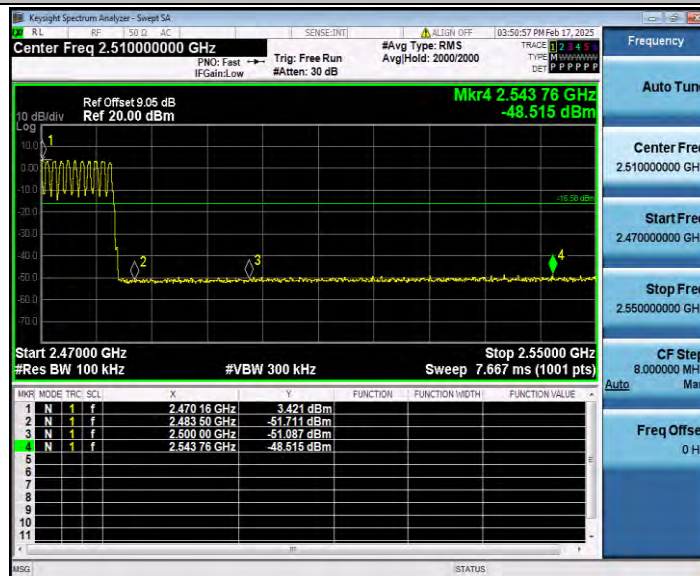
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

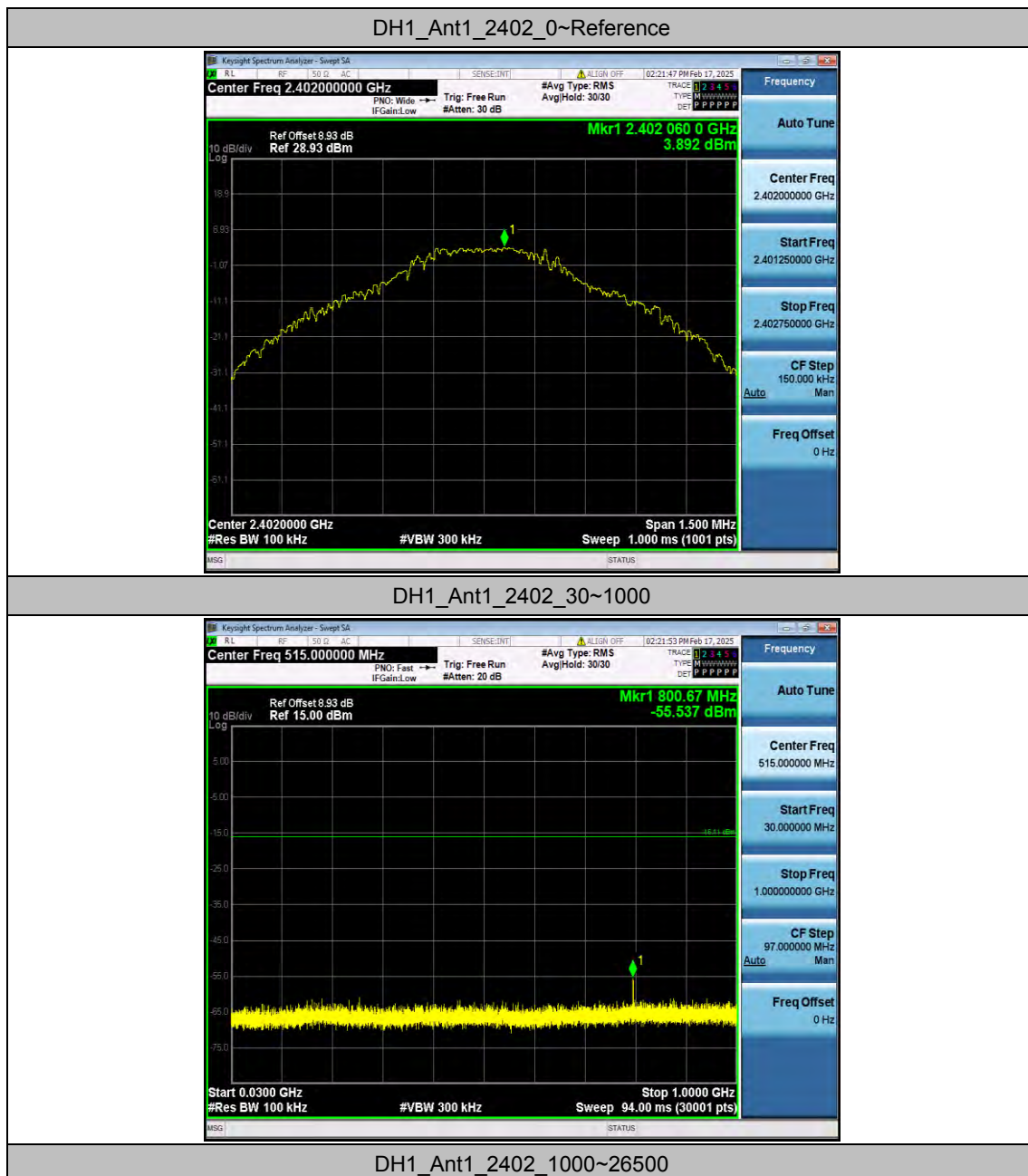


Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	3.89	3.89	---	PASS
			30~1000	3.89	-55.54	≤-16.11	PASS
			1000~26500	3.89	-48.38	≤-16.11	PASS
		2441	Reference	3.29	3.29	---	PASS
			30~1000	3.29	-55.51	≤-16.71	PASS
			1000~26500	3.29	-48.16	≤-16.71	PASS
		2480	Reference	2.71	2.71	---	PASS
			30~1000	2.71	-56.44	≤-17.29	PASS
			1000~26500	2.71	-48.11	≤-17.29	PASS
2DH1	Ant1	2402	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-57.18	≤-18.1	PASS
			1000~26500	1.90	-47.89	≤-18.1	PASS
		2441	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-58.32	≤-18.43	PASS
			1000~26500	1.57	-48.19	≤-18.43	PASS
		2480	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-58.32	≤-19.2	PASS
			1000~26500	0.80	-46.5	≤-19.2	PASS
3DH1	Ant1	2402	Reference	1.85	1.85	---	PASS
			30~1000	1.85	-57.79	≤-18.15	PASS
			1000~26500	1.85	-48.17	≤-18.15	PASS
		2441	Reference	1.28	1.28	---	PASS
			30~1000	1.28	-58.03	≤-18.72	PASS
			1000~26500	1.28	-47.87	≤-18.72	PASS
		2480	Reference	0.82	0.82	---	PASS
			30~1000	0.82	-57.29	≤-19.18	PASS
			1000~26500	0.82	-47.49	≤-19.18	PASS

Test Graphs

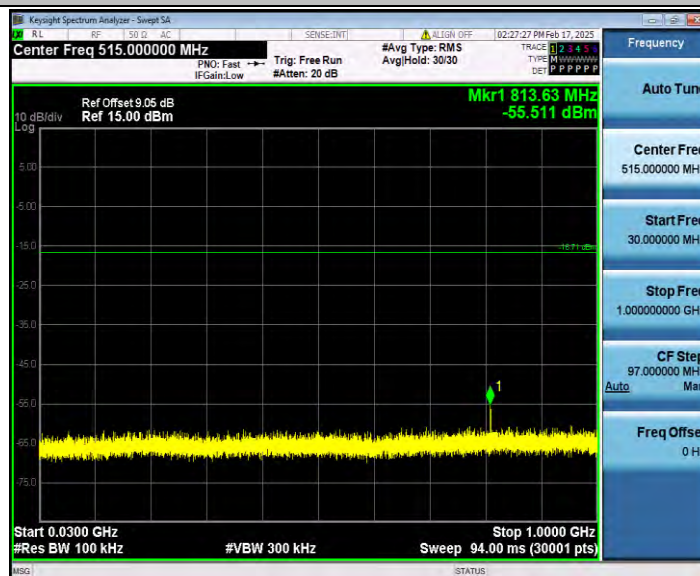




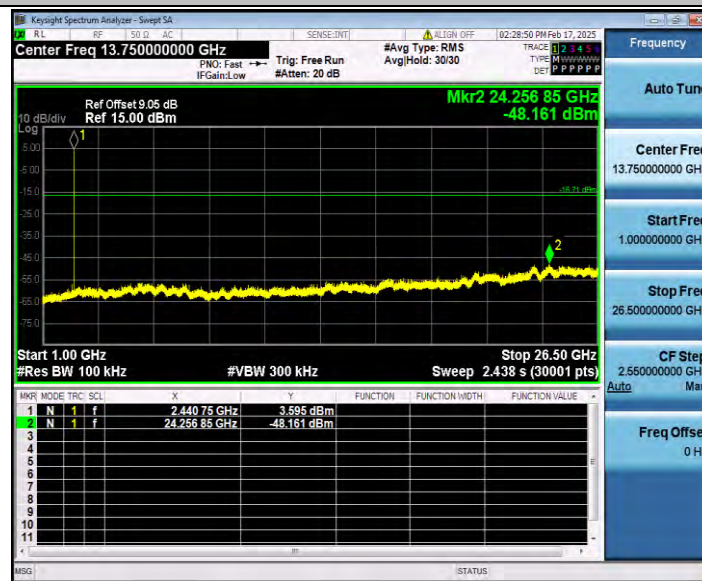
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



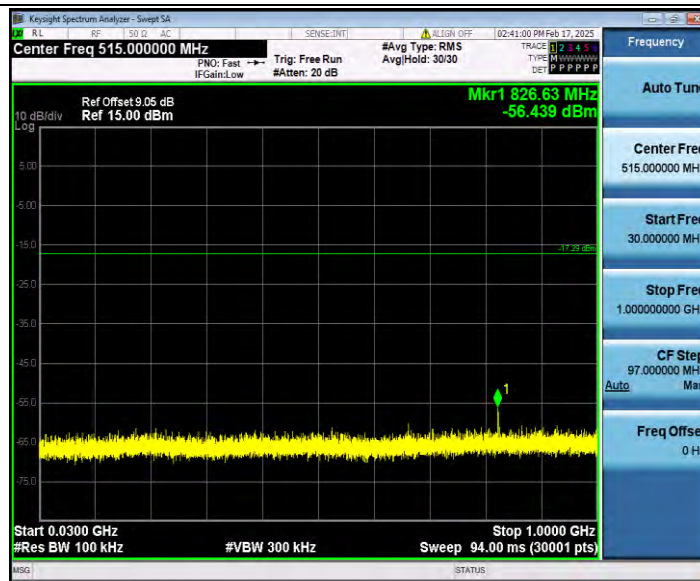
DH1_Ant1_2441_1000~26500



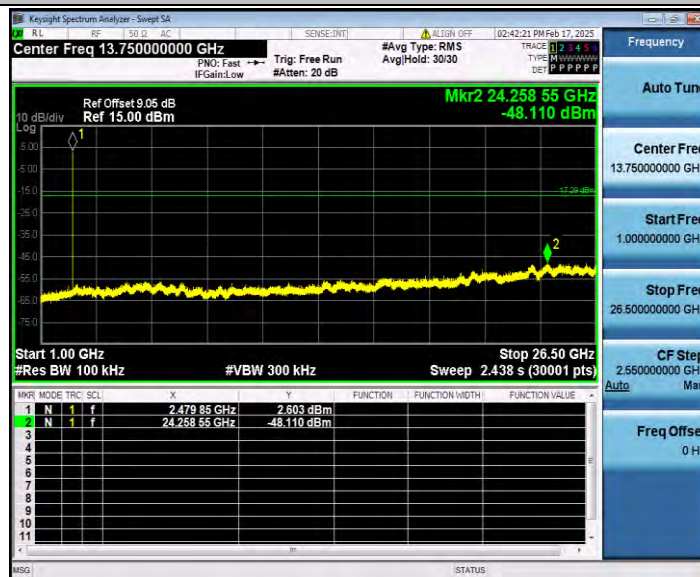
DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

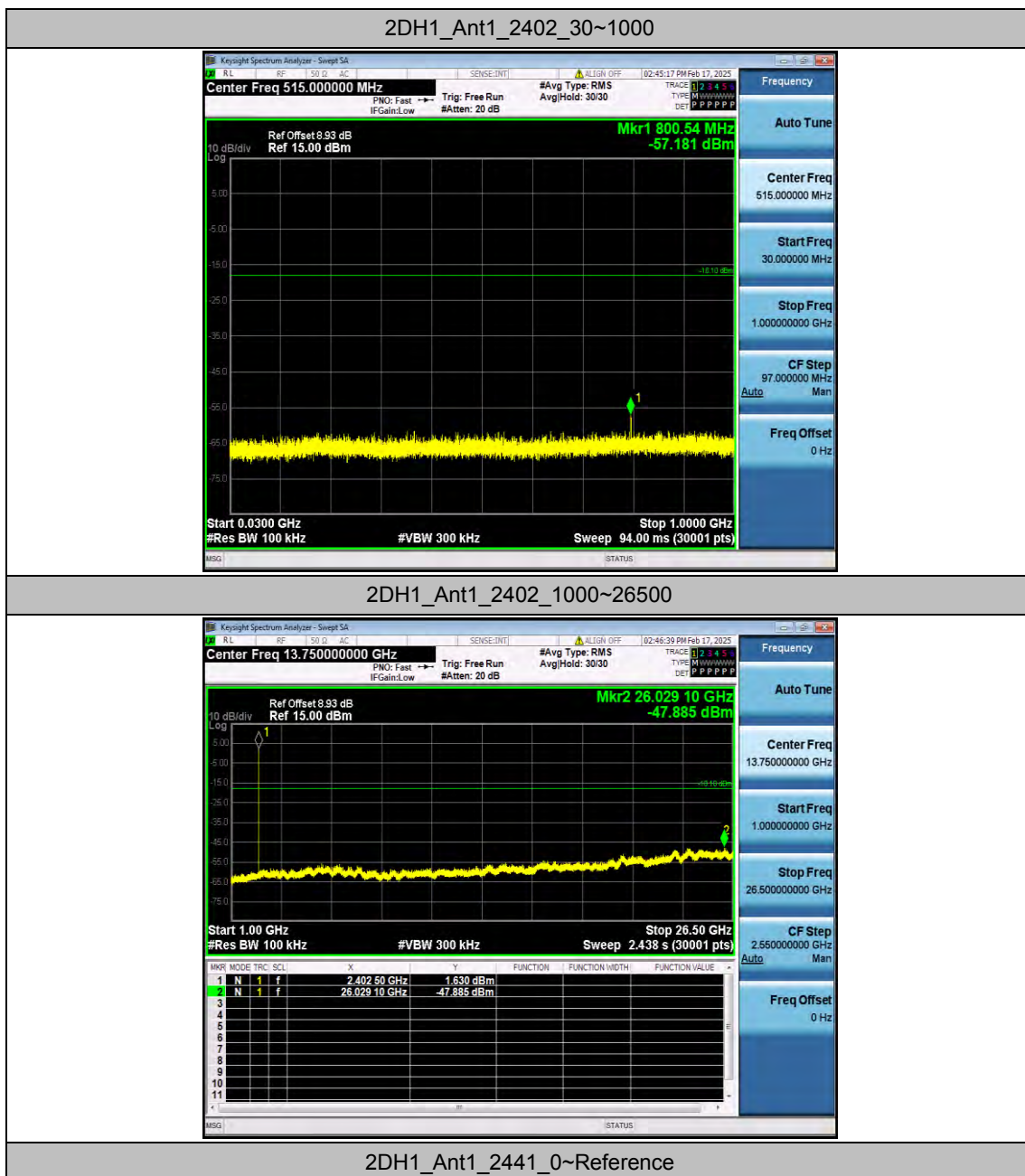


DH1_Ant1_2480_1000~26500



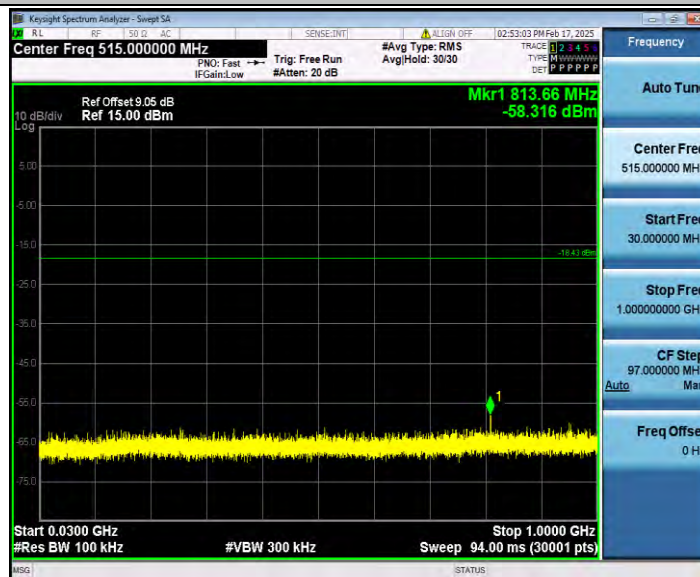
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



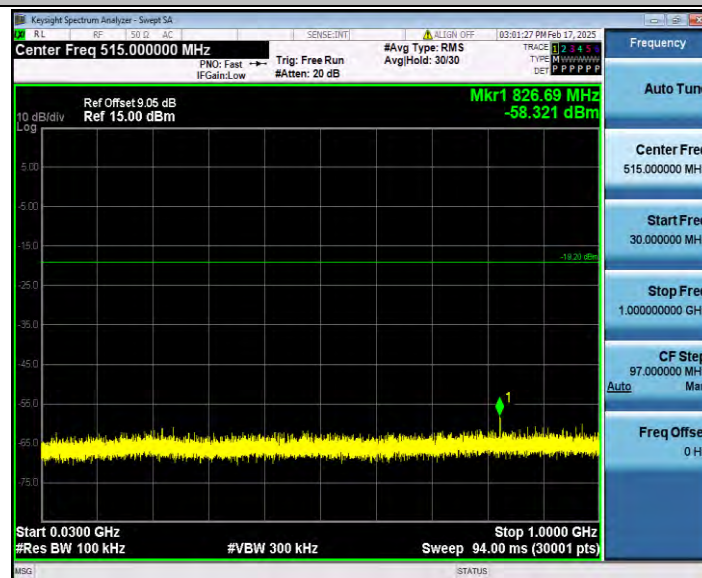
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



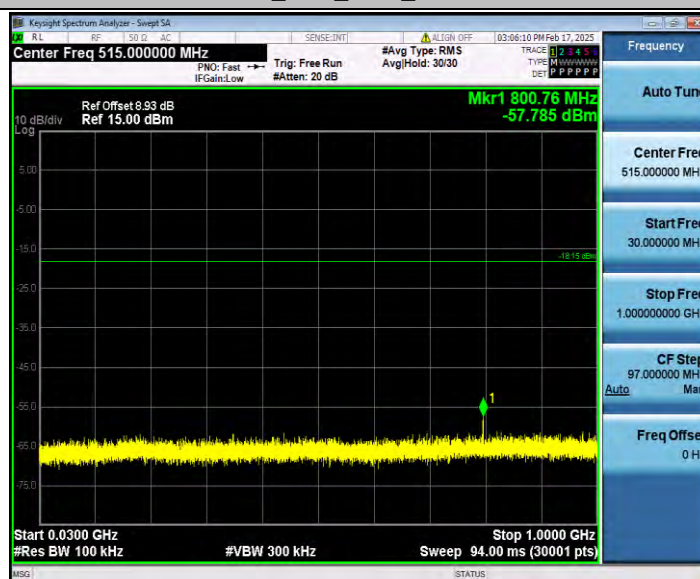
2DH1_Ant1_2480_1000~26500



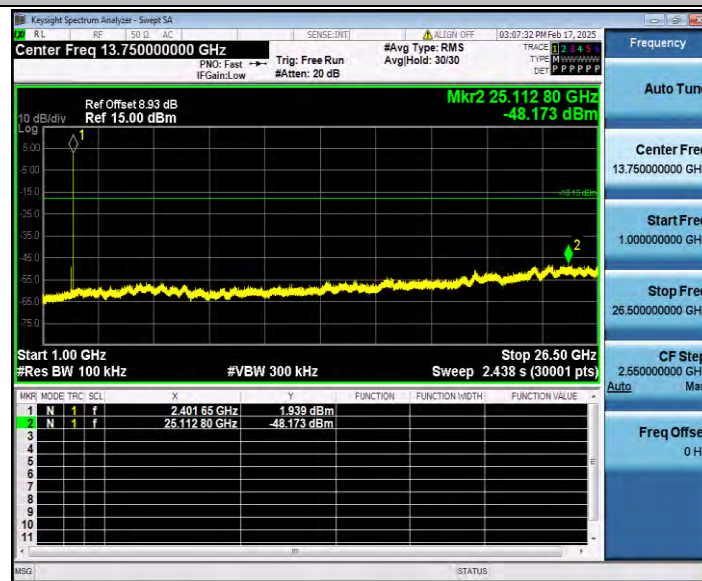
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



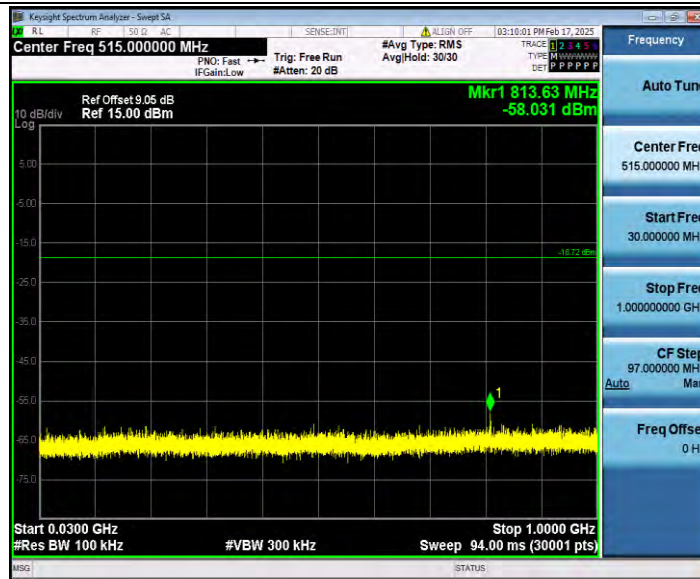
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



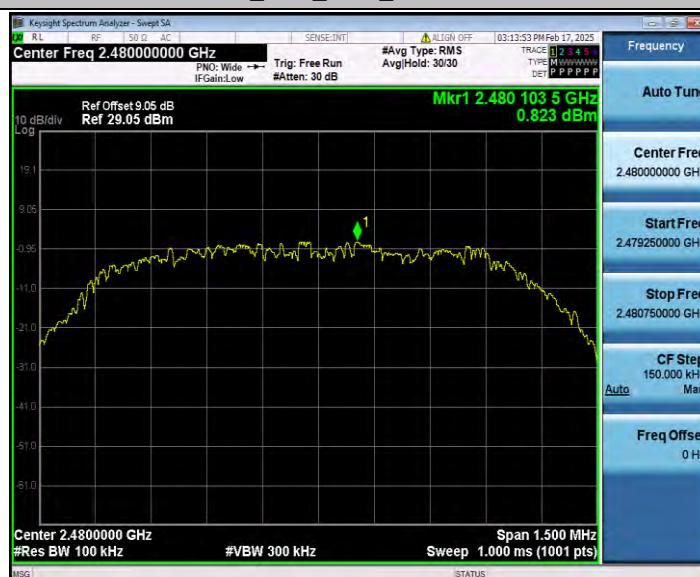
3DH1_Ant1_2441_30~1000

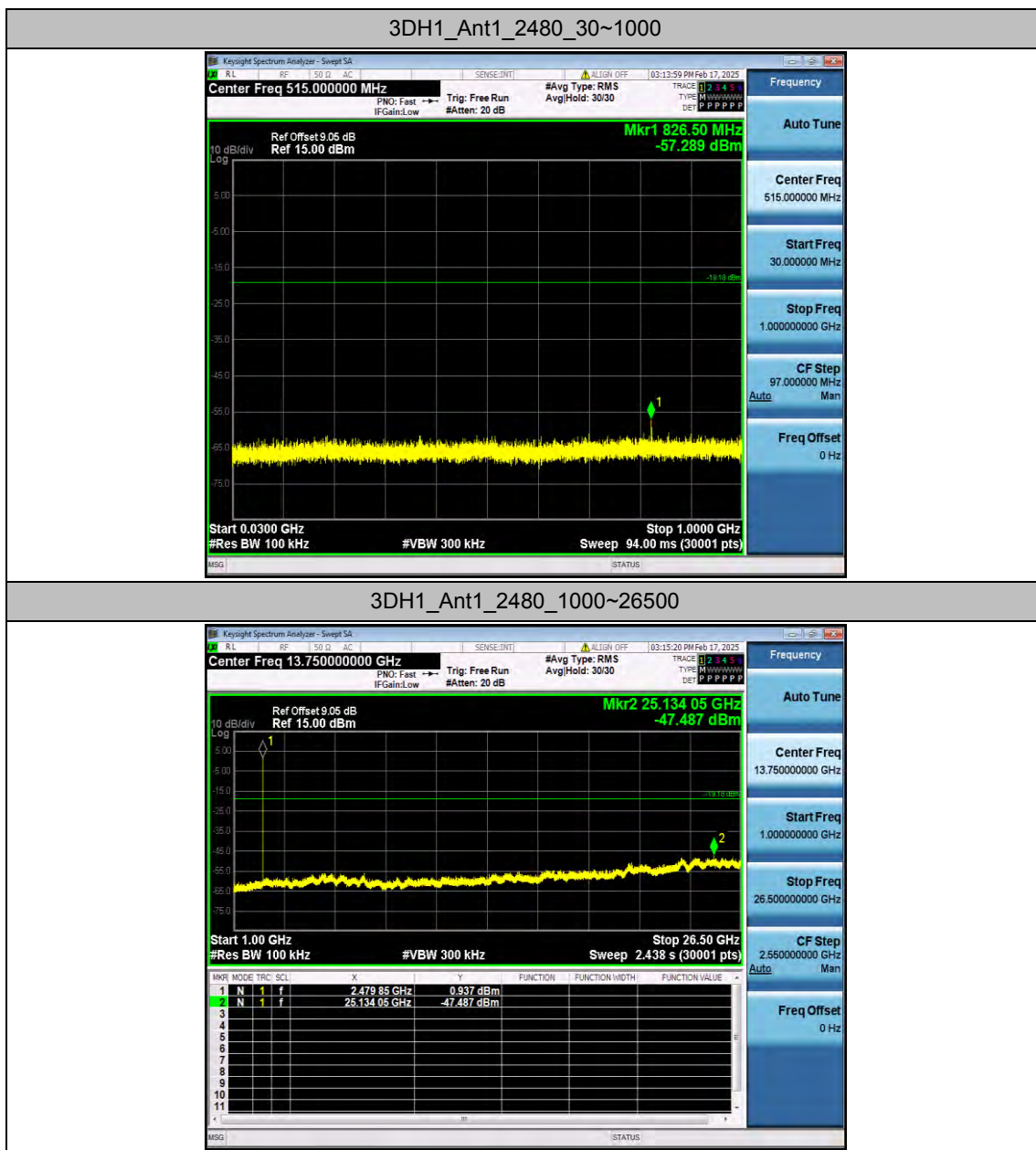


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

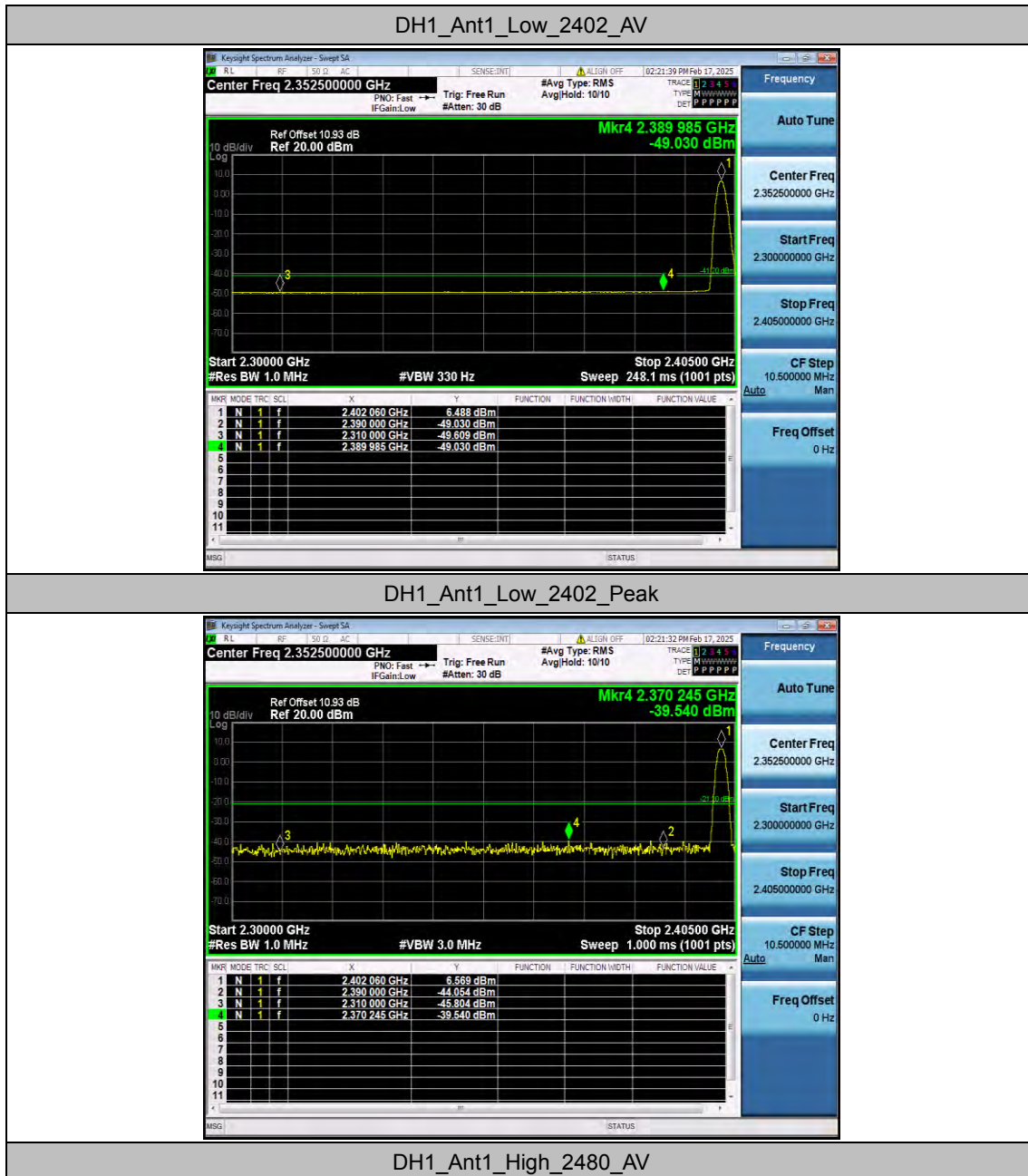
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.61	≤-41.20	45.59	≤54	PASS
				AV	2389.985	-49.03	≤-41.20	46.17	≤54	PASS
				AV	2390.000	-49.03	≤-41.20	46.17	≤54	PASS
				Peak	2310.000	-45.8	≤-21.20	49.40	≤74	PASS
				Peak	2370.245	-39.54	≤-21.20	55.66	≤74	PASS
				Peak	2390.000	-44.05	≤-21.20	51.15	≤74	PASS
		High	2480	AV	2483.500	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2483.520	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2500.000	-48.82	≤-41.20	46.38	≤54	PASS
				Peak	2483.500	-43.23	≤-21.20	51.97	≤74	PASS
				Peak	2483.840	-39.47	≤-21.20	55.73	≤74	PASS
				Peak	2500.000	-44.41	≤-21.20	50.79	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.52	≤-41.20	45.68	≤54	PASS
				AV	2324.360	-48.15	≤-41.20	47.05	≤54	PASS
				AV	2390.000	-49.17	≤-41.20	46.03	≤54	PASS
				Peak	2310.000	-44.04	≤-21.20	51.16	≤74	PASS
				Peak	2375.810	-40.05	≤-21.20	55.15	≤74	PASS
				Peak	2390.000	-45.32	≤-21.20	49.88	≤74	PASS
		High	2480	AV	2483.500	-47.13	≤-41.20	48.07	≤54	PASS
				AV	2483.520	-47.13	≤-41.20	48.07	≤54	PASS
				AV	2500.000	-48.77	≤-41.20	46.43	≤54	PASS
				Peak	2483.500	-43.87	≤-21.20	51.33	≤74	PASS
				Peak	2489.120	-39.91	≤-21.20	55.29	≤74	PASS
				Peak	2500.000	-44.54	≤-21.20	50.66	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.54	≤-41.20	45.66	≤54	PASS
				AV	2389.670	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2390.000	-49.02	≤-41.20	46.18	≤54	PASS
				Peak	2310.000	-43.65	≤-21.20	51.55	≤74	PASS
				Peak	2369.195	-40.44	≤-21.20	54.76	≤74	PASS
				Peak	2390.000	-43.12	≤-21.20	52.08	≤74	PASS
		High	2480	AV	2483.500	-47.07	≤-41.20	48.13	≤54	PASS
				AV	2483.520	-47.07	≤-41.20	48.13	≤54	PASS
				AV	2500.000	-48.85	≤-41.20	46.35	≤54	PASS
				Peak	2483.500	-44.97	≤-21.20	50.23	≤74	PASS
				Peak	2489.440	-40.57	≤-21.20	54.63	≤74	PASS

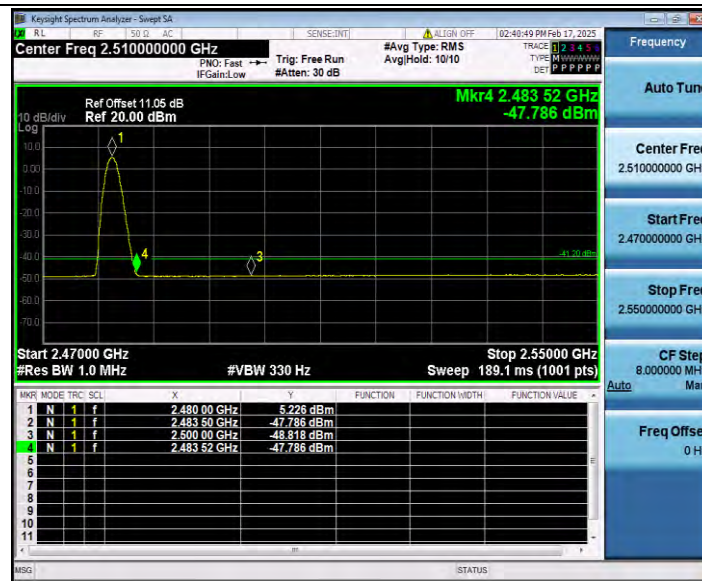
				Peak	2500.000	-41.49	≤ -21.20	53.71	≤ 74	PASS
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Note:

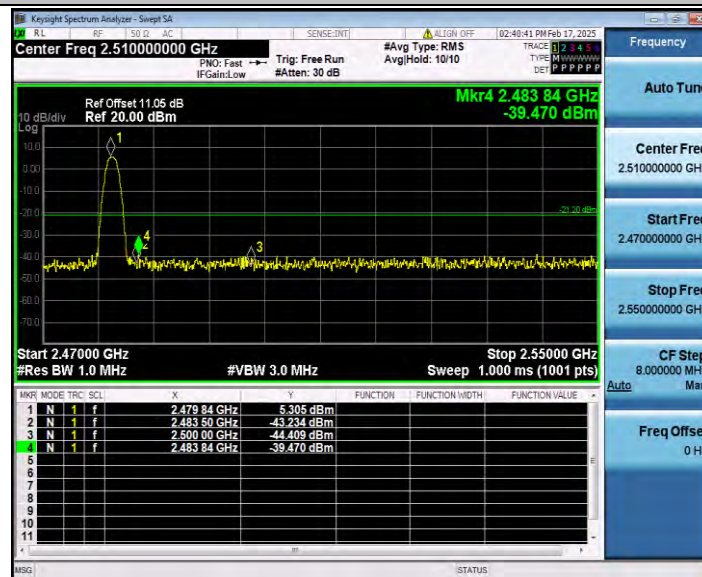
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

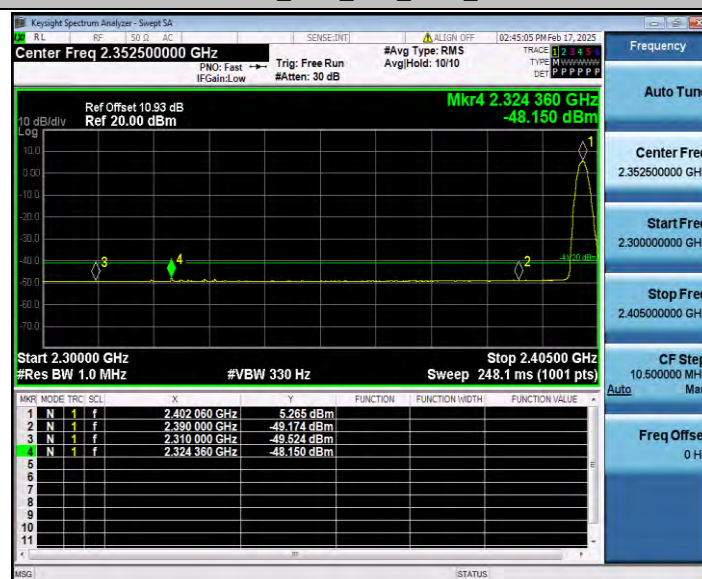




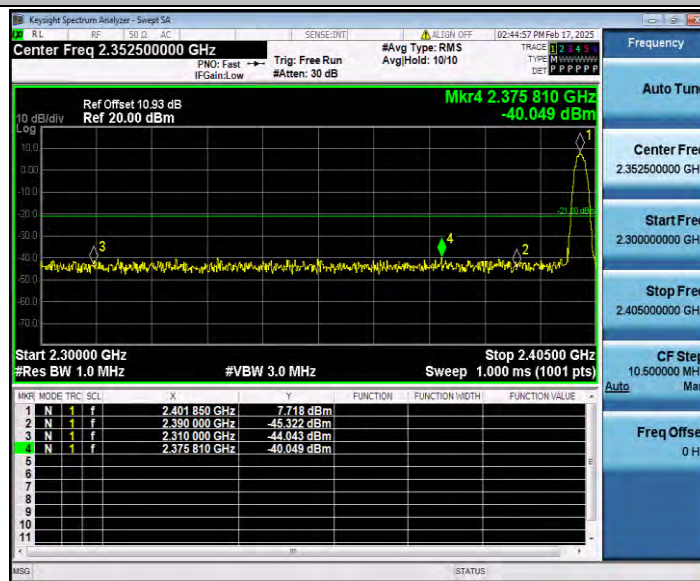
DH1_Ant1_High_2480_Peak



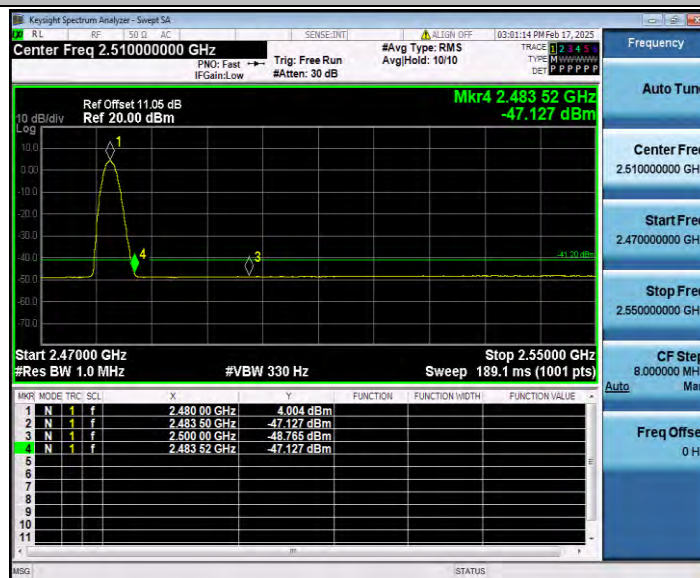
2DH1_Ant1_Low_2402_AV



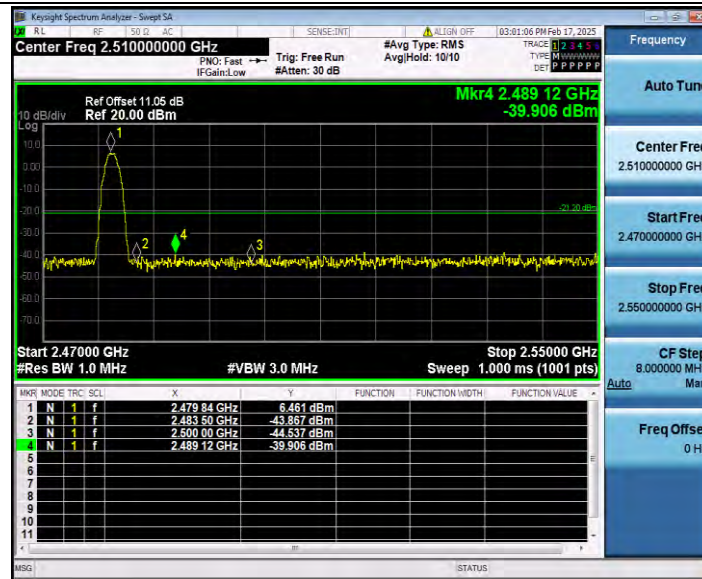
2DH1_Ant1_Low_2402_Peak



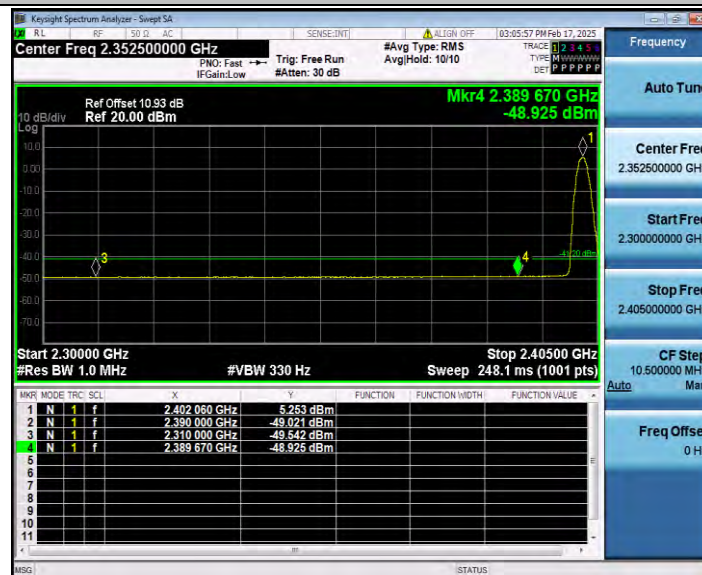
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

