

Case No. : <u>GTS20250816006-4-01</u>	
Ambient Condition: <u>24</u> °C, <u>48</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.10.10</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	0.858	2401.556	2402.414	---	---
		2441	0.849	2440.556	2441.405	---	---
		2480	0.795	2479.598	2480.393	---	---
2DH1	Ant1	2402	1.203	2401.370	2402.573	---	---
		2441	1.278	2440.355	2441.633	---	---
		2480	1.242	2479.367	2480.609	---	---
3DH1	Ant1	2402	1.239	2401.376	2402.615	---	---
		2441	1.248	2440.370	2441.618	---	---
		2480	1.224	2479.391	2480.615	---	---

Test Graphs

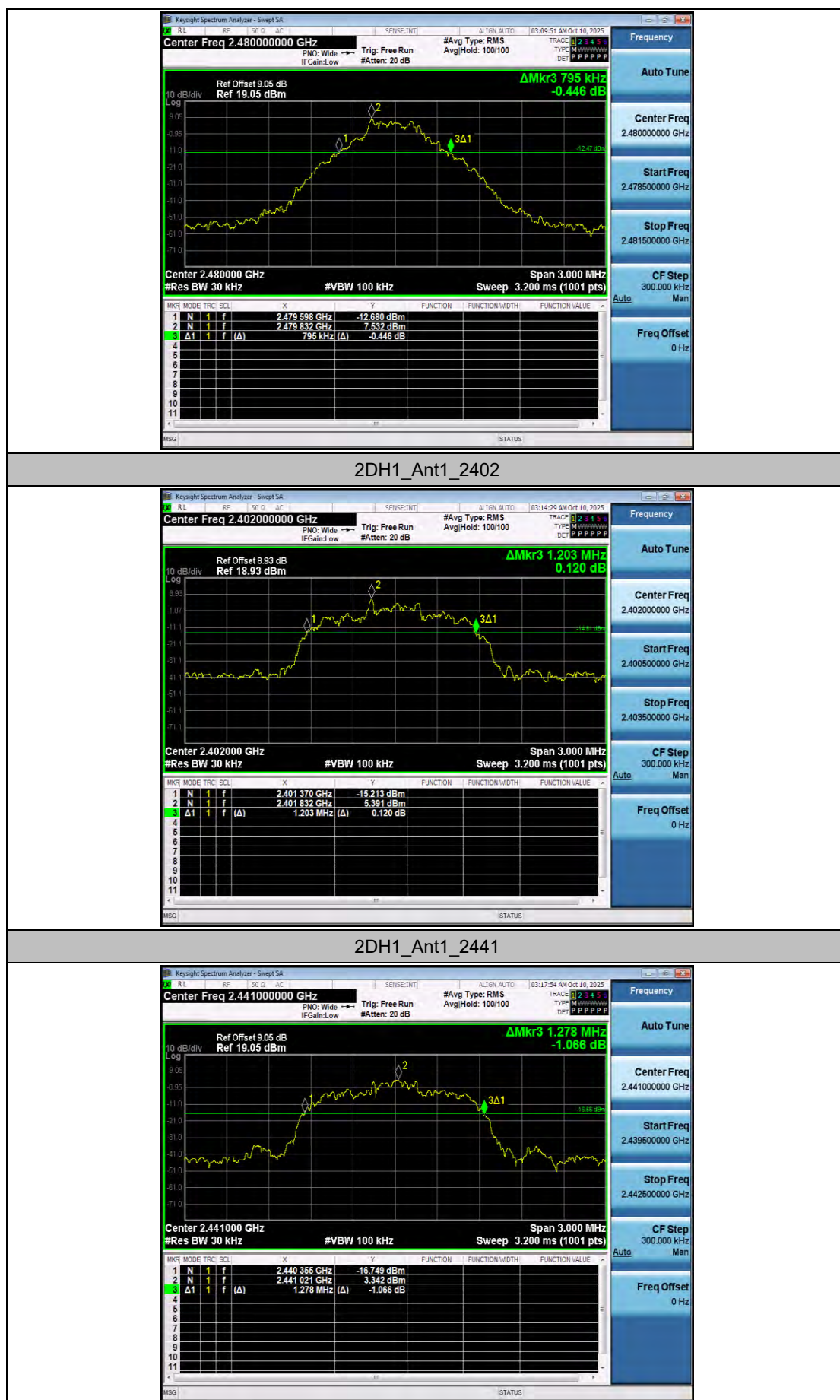
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



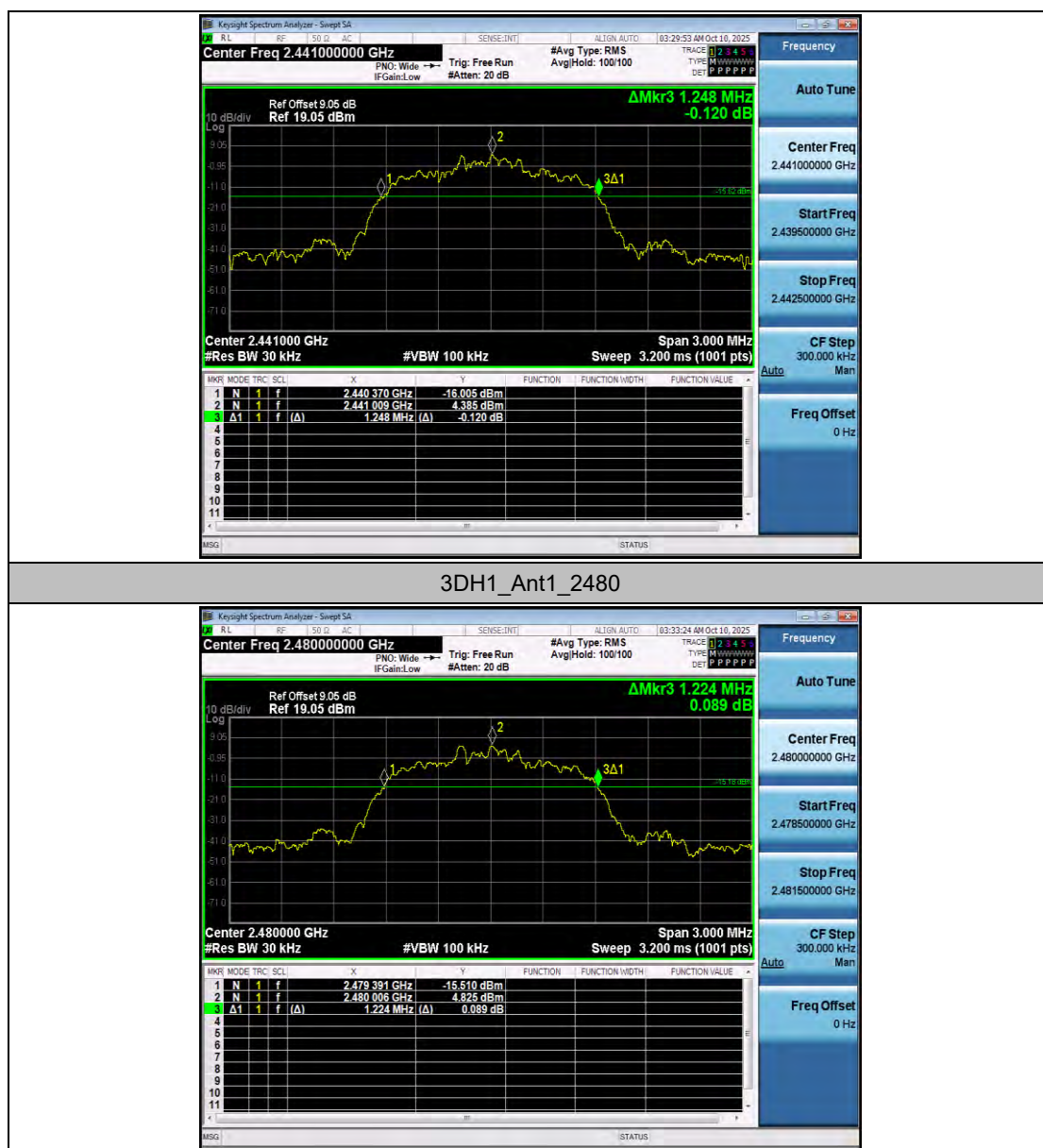
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441

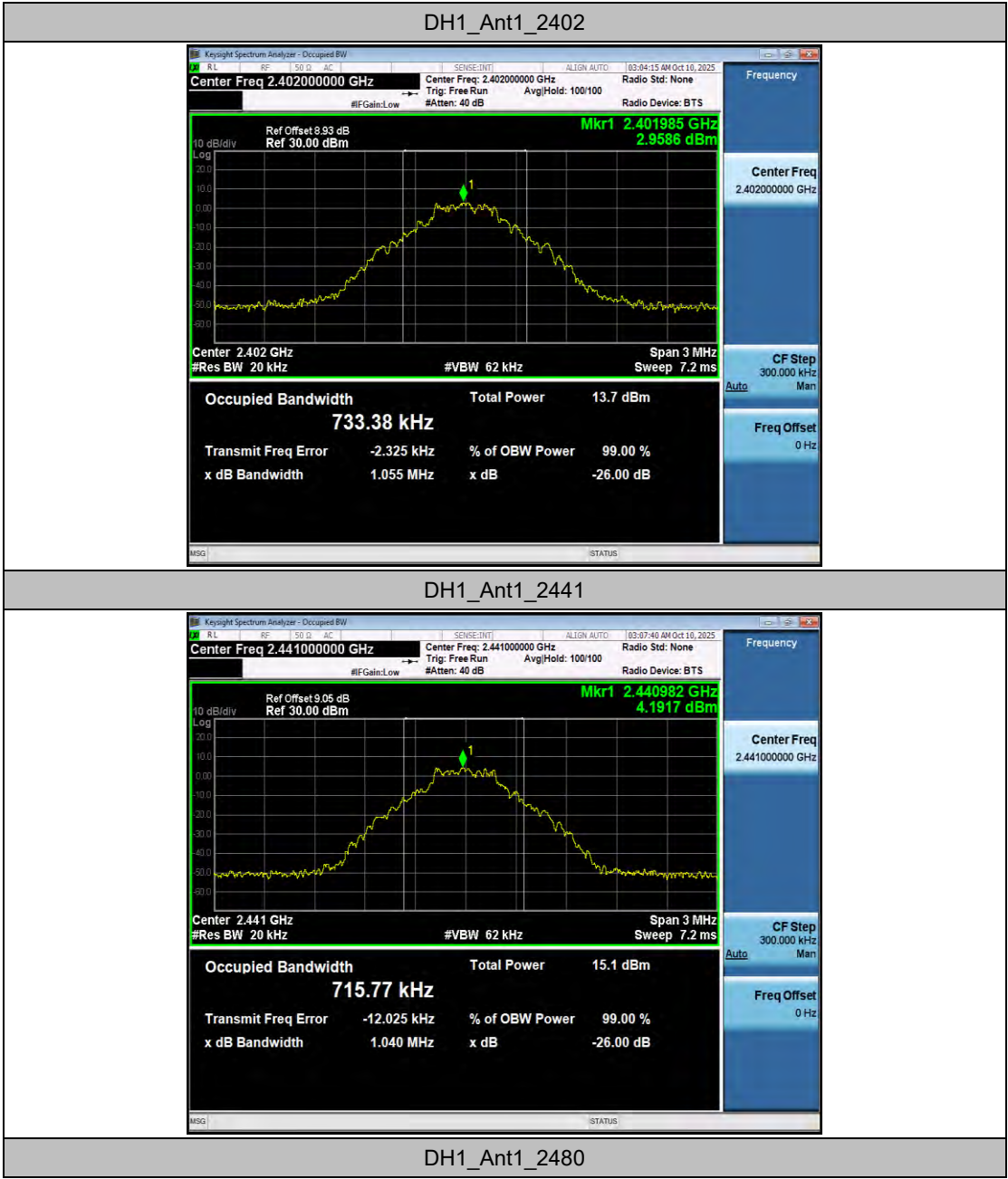


Appendix A.2: Occupied Channel Bandwidth

Test Result

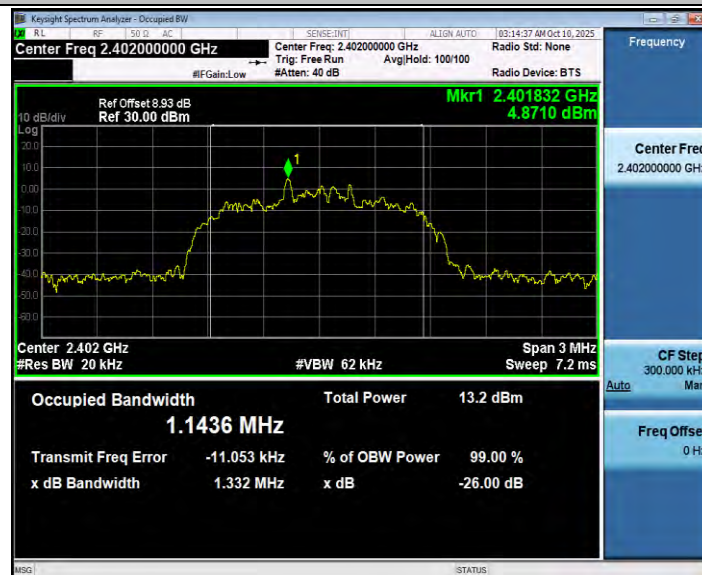
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.73338	2401.6310	2402.3644	---	---
		2441	0.71577	2440.6301	2441.3459	---	---
		2480	0.71280	2479.6289	2480.3417	---	---
2DH1	Ant1	2402	1.1436	2401.4172	2402.5608	---	---
		2441	1.1363	2440.4212	2441.5575	---	---
		2480	1.1367	2479.4227	2480.5594	---	---
3DH1	Ant1	2402	1.1412	2401.4299	2402.5711	---	---
		2441	1.1354	2440.4320	2441.5674	---	---
		2480	1.1368	2479.4294	2480.5662	---	---

Test Graphs



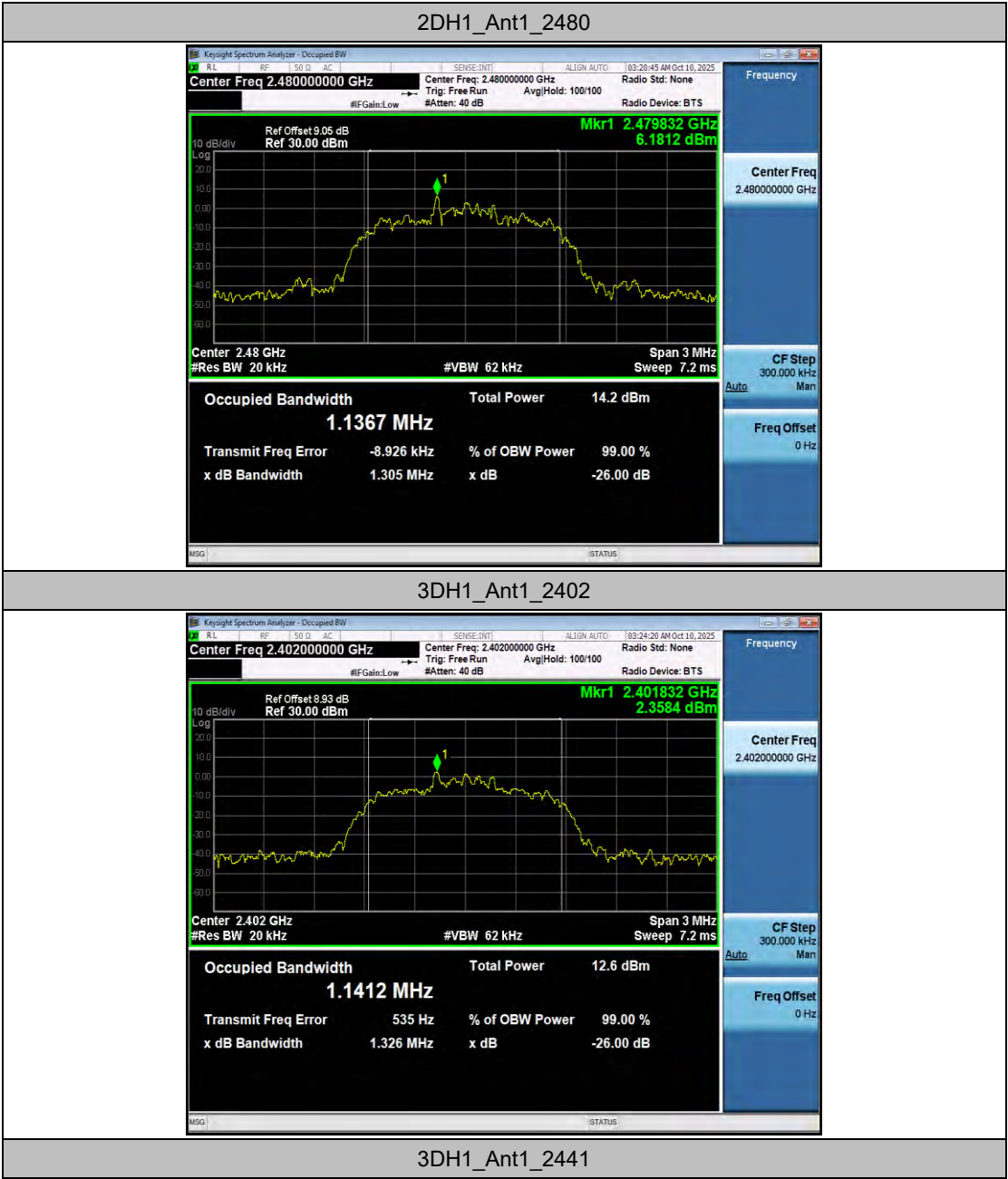


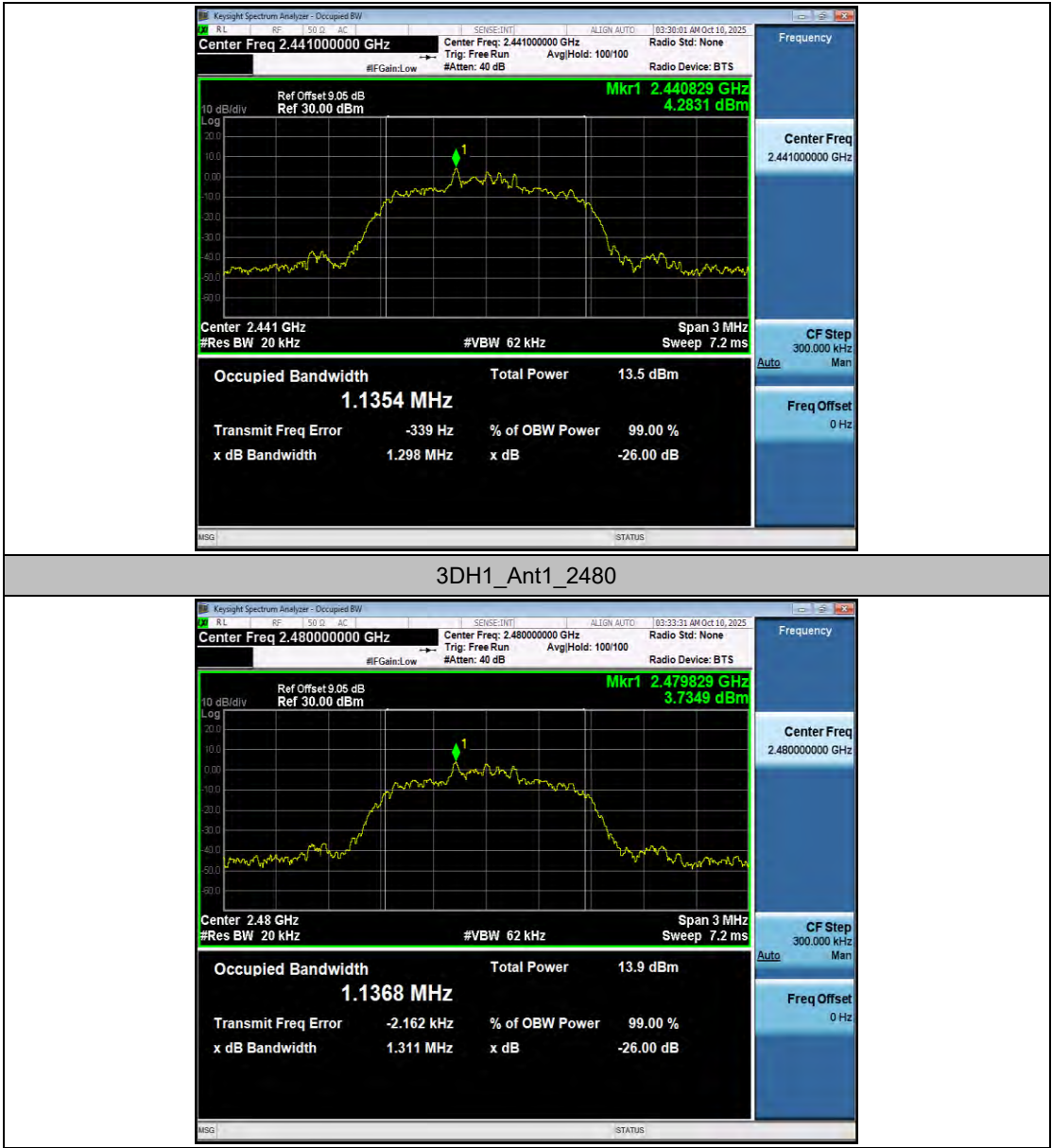
2DH1_Ant1_2402



2DH1_Ant1_2441







Appendix A.3: Maximum conducted output power

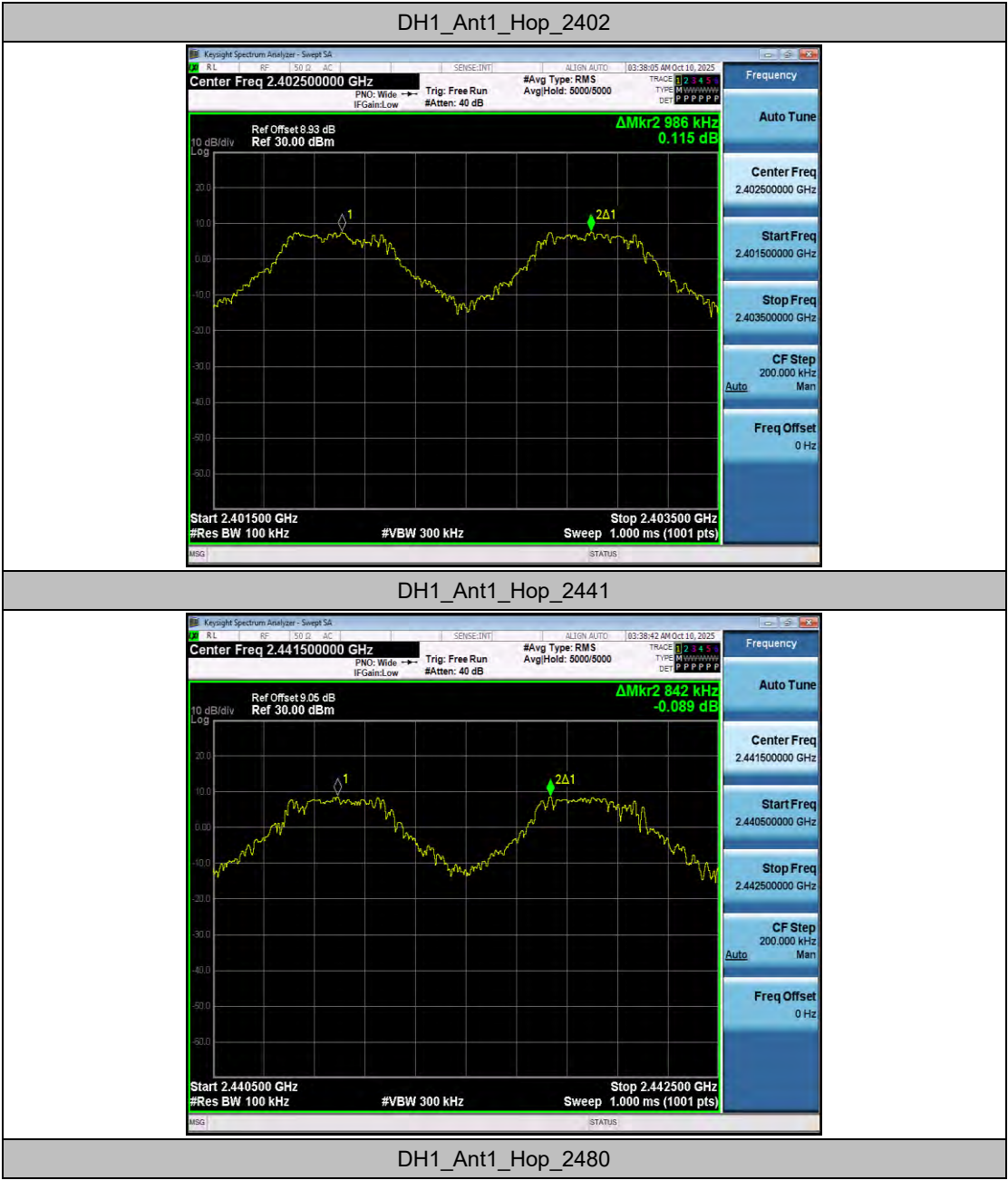
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	8.37	≤20.97	PASS
		2441	9.26	≤20.97	PASS
		2480	10.08	≤20.97	PASS
2DH1	Ant1	2402	7.70	≤20.97	PASS
		2441	8.44	≤20.97	PASS
		2480	8.98	≤20.97	PASS
3DH1	Ant1	2402	7.54	≤20.97	PASS
		2441	8.37	≤20.97	PASS
		2480	9.01	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.986	≥ 0.529	PASS
		Hop_2441	0.842	≥ 0.529	PASS
		Hop_2480	0.992	≥ 0.529	PASS
2DH1	Ant1	Hop_2402	1.028	≥ 0.852	PASS
		Hop_2441	1.014	≥ 0.852	PASS
		Hop_2480	1.034	≥ 0.852	PASS
3DH1	Ant1	Hop_2402	1.024	≥ 0.832	PASS
		Hop_2441	0.836	≥ 0.832	PASS
		Hop_2480	0.998	≥ 0.832	PASS

Test Graphs





2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441



3DH1_Ant1_Hop_2480

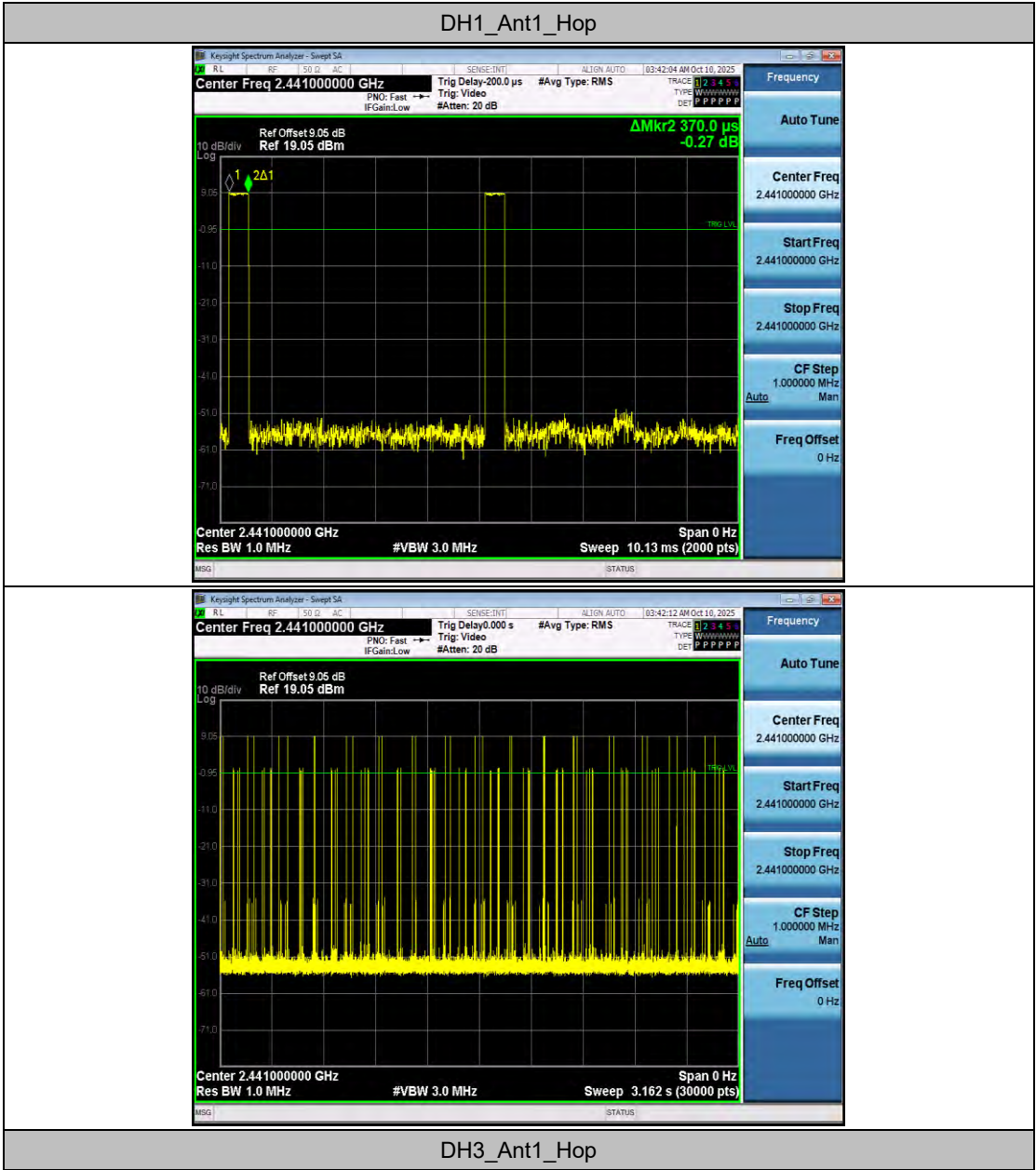


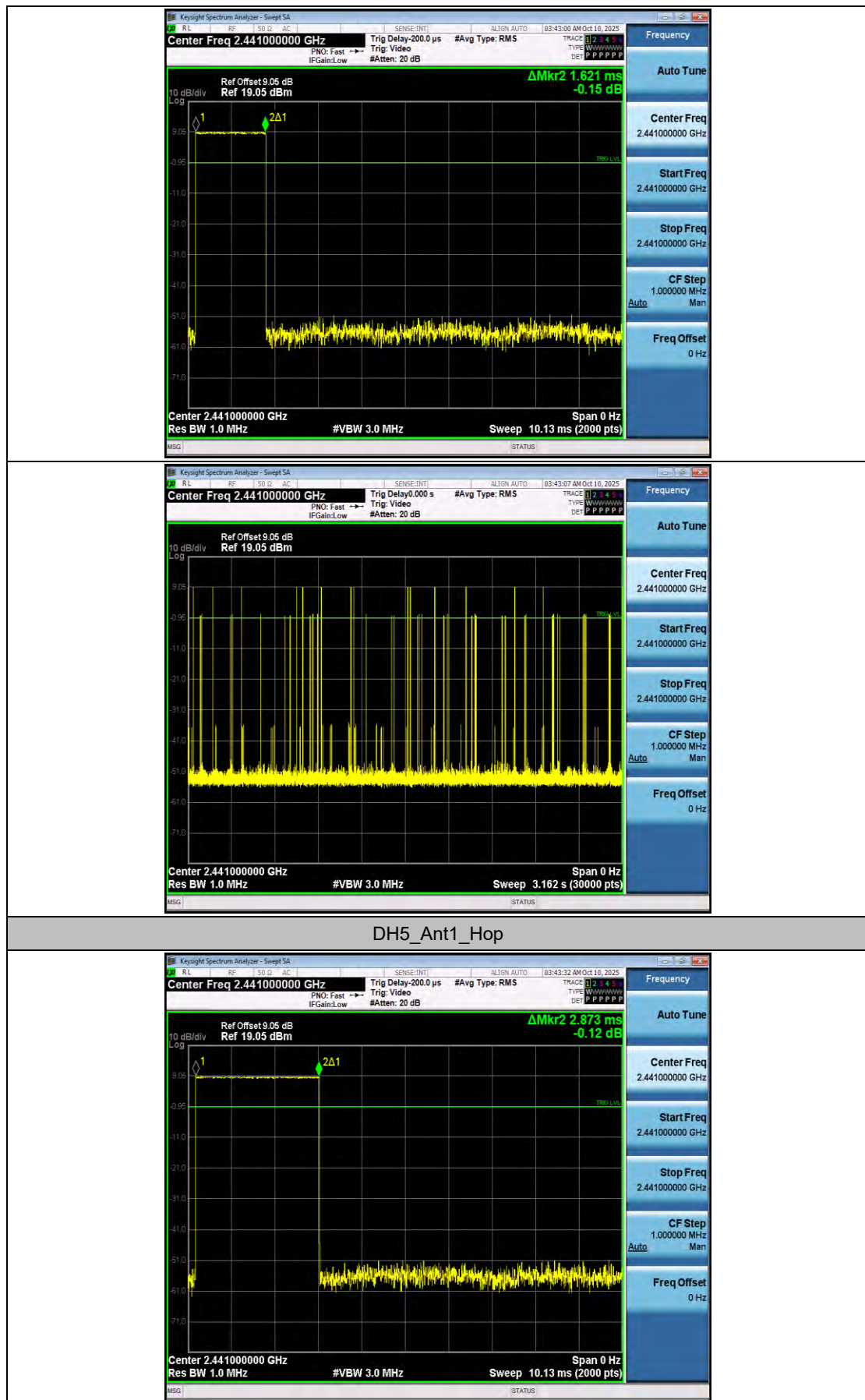
Appendix A.5: Time of occupancy

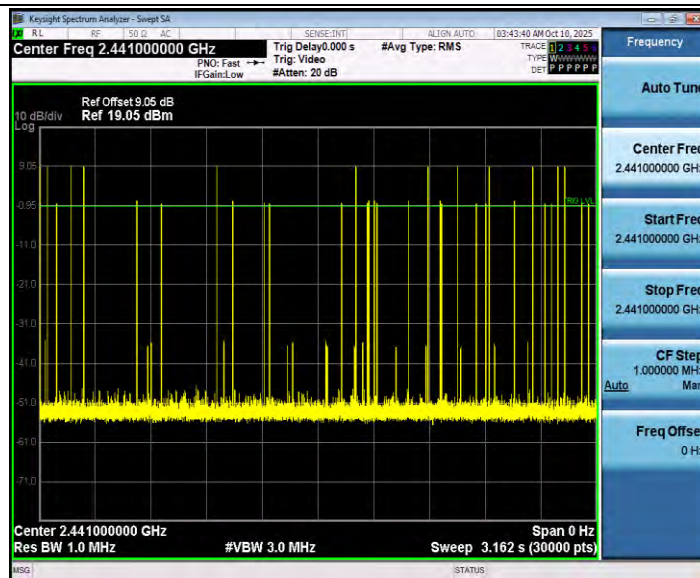
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.621	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.873	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.380	330	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.626	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.873	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.375	320	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.878	120	0.345	≤0.4	PASS

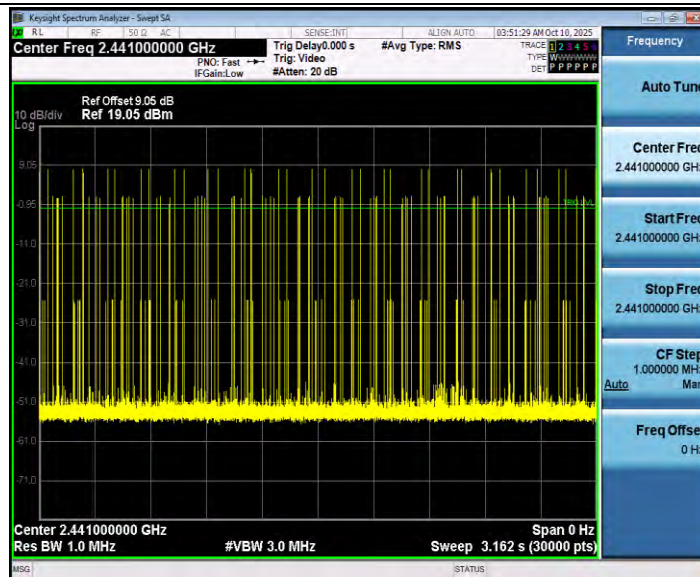
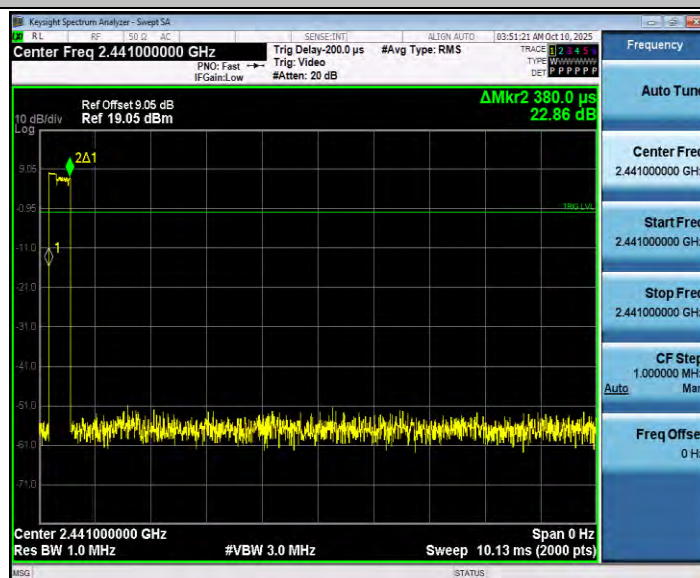
Test Graphs



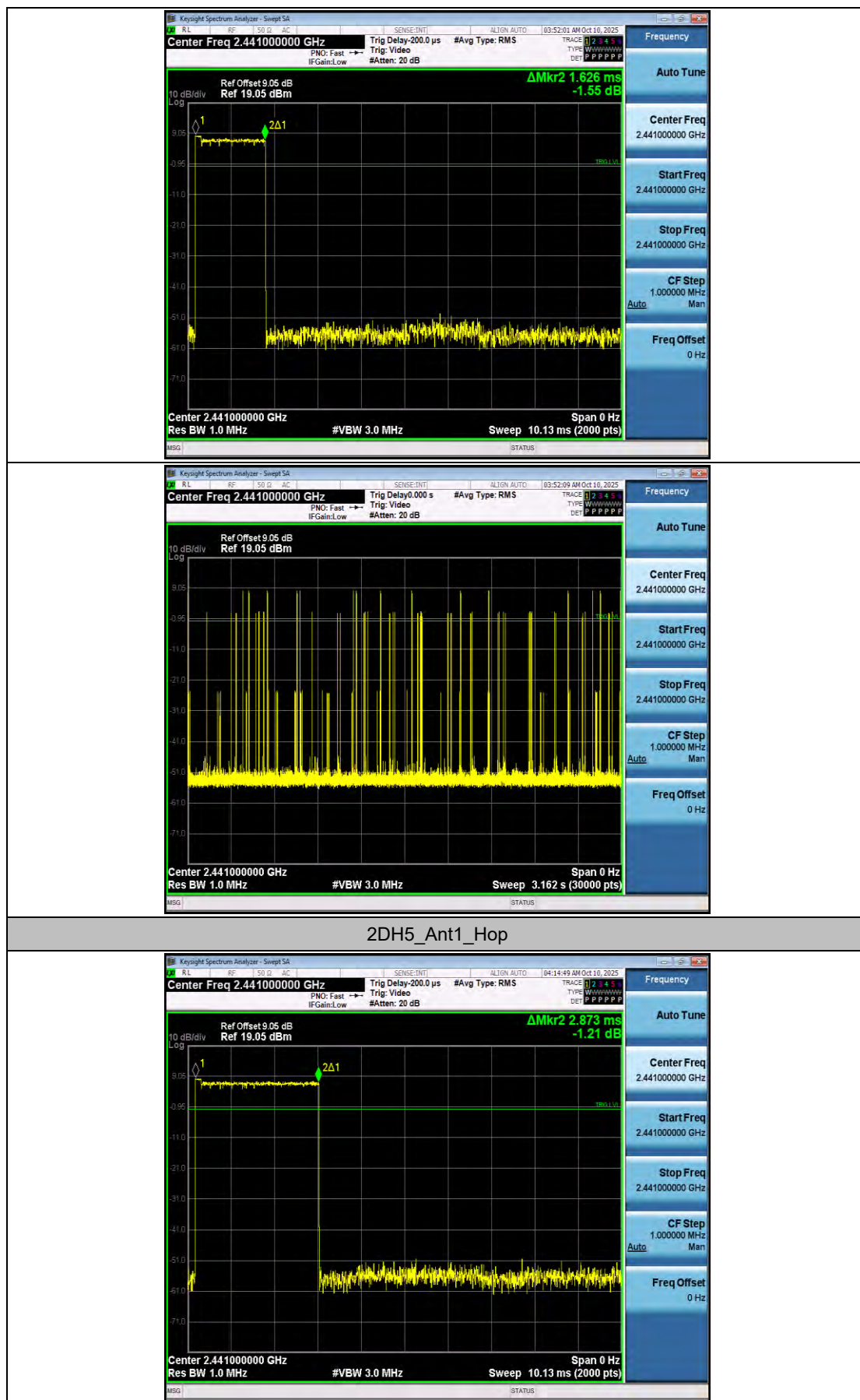


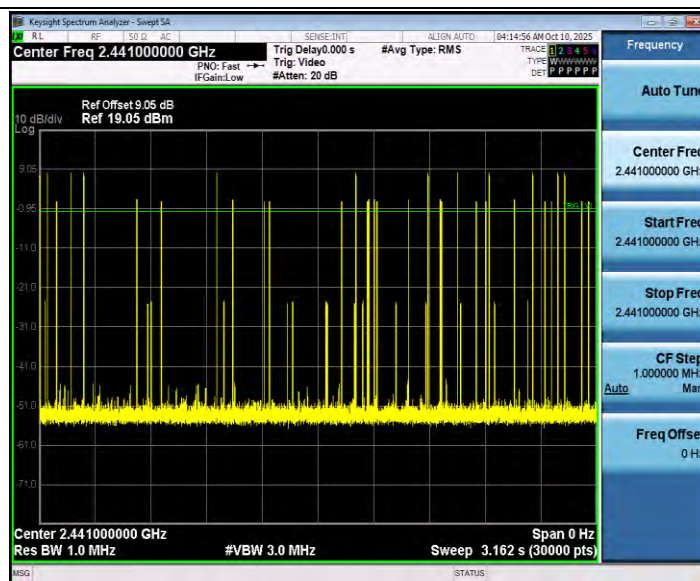


2DH1_Ant1_Hop

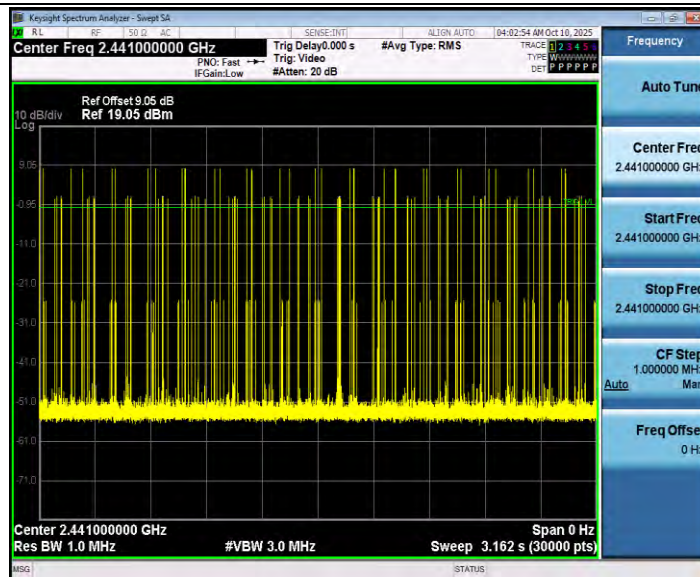
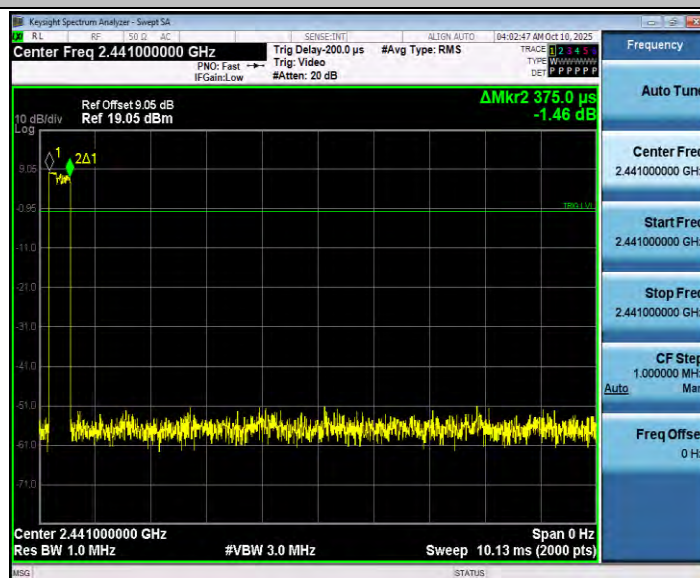


2DH3_Ant1_Hop

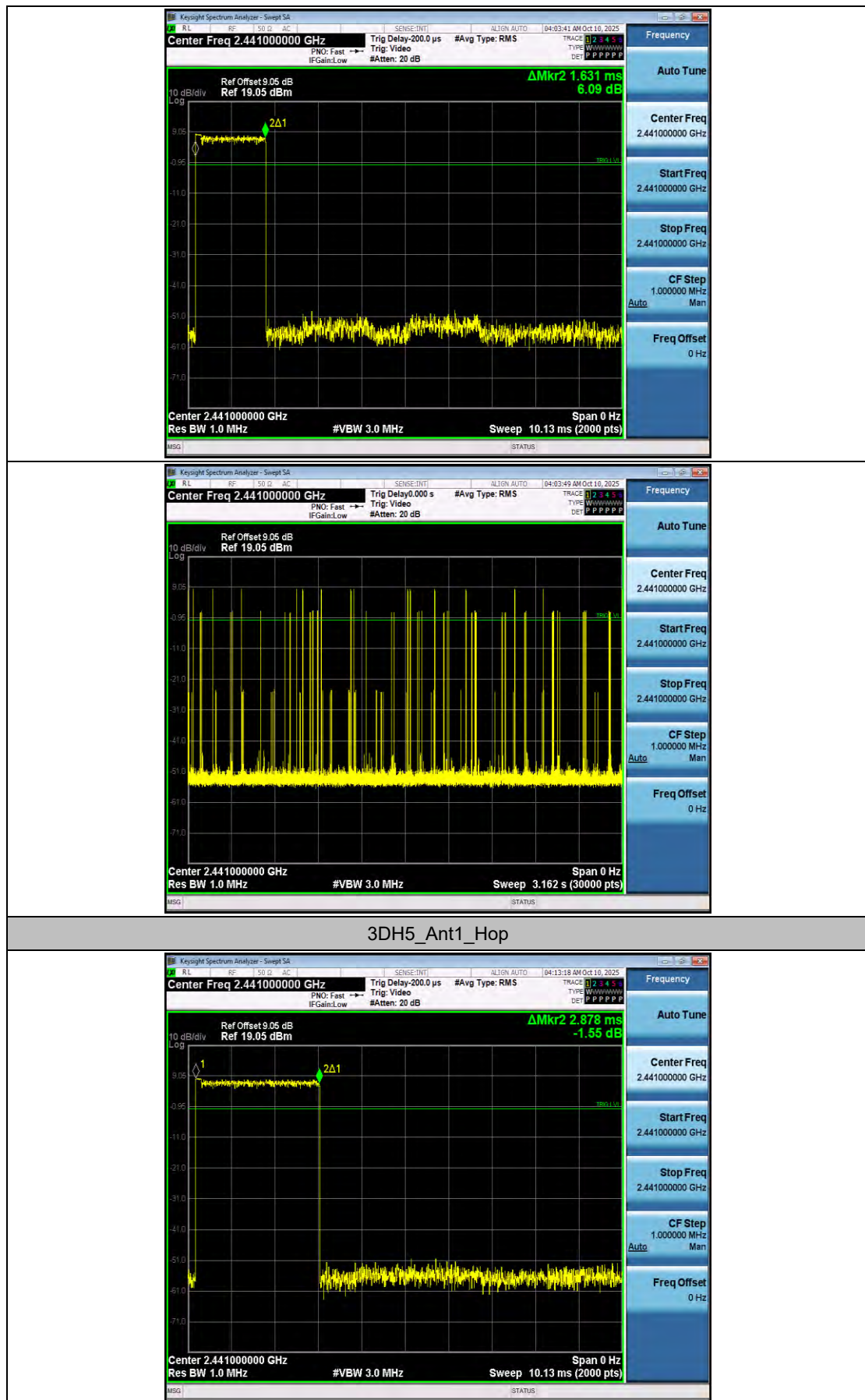


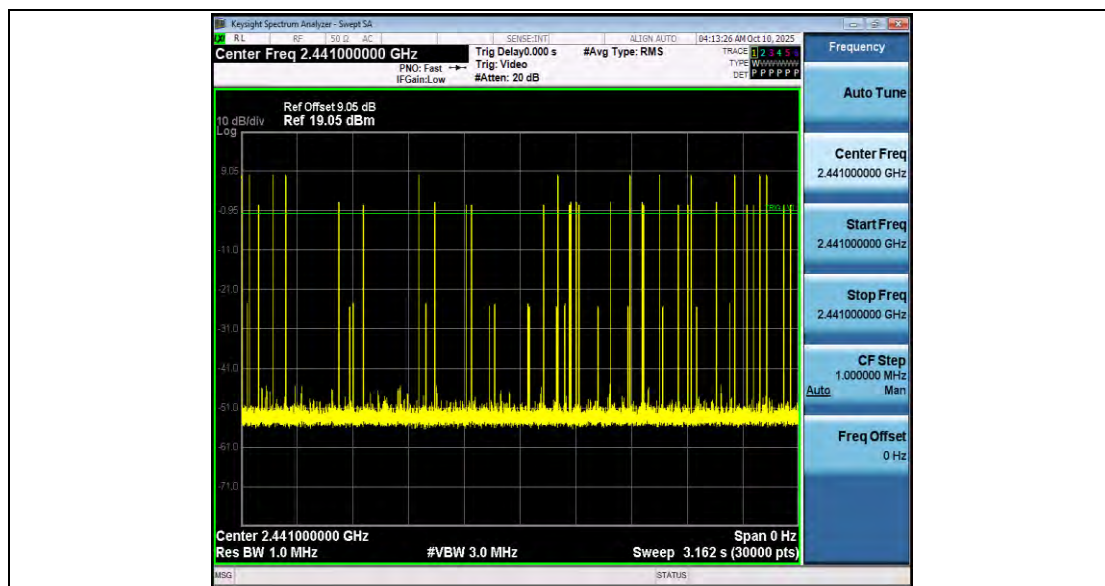


3DH1_Ant1_Hop



3DH3_Ant1_Hop



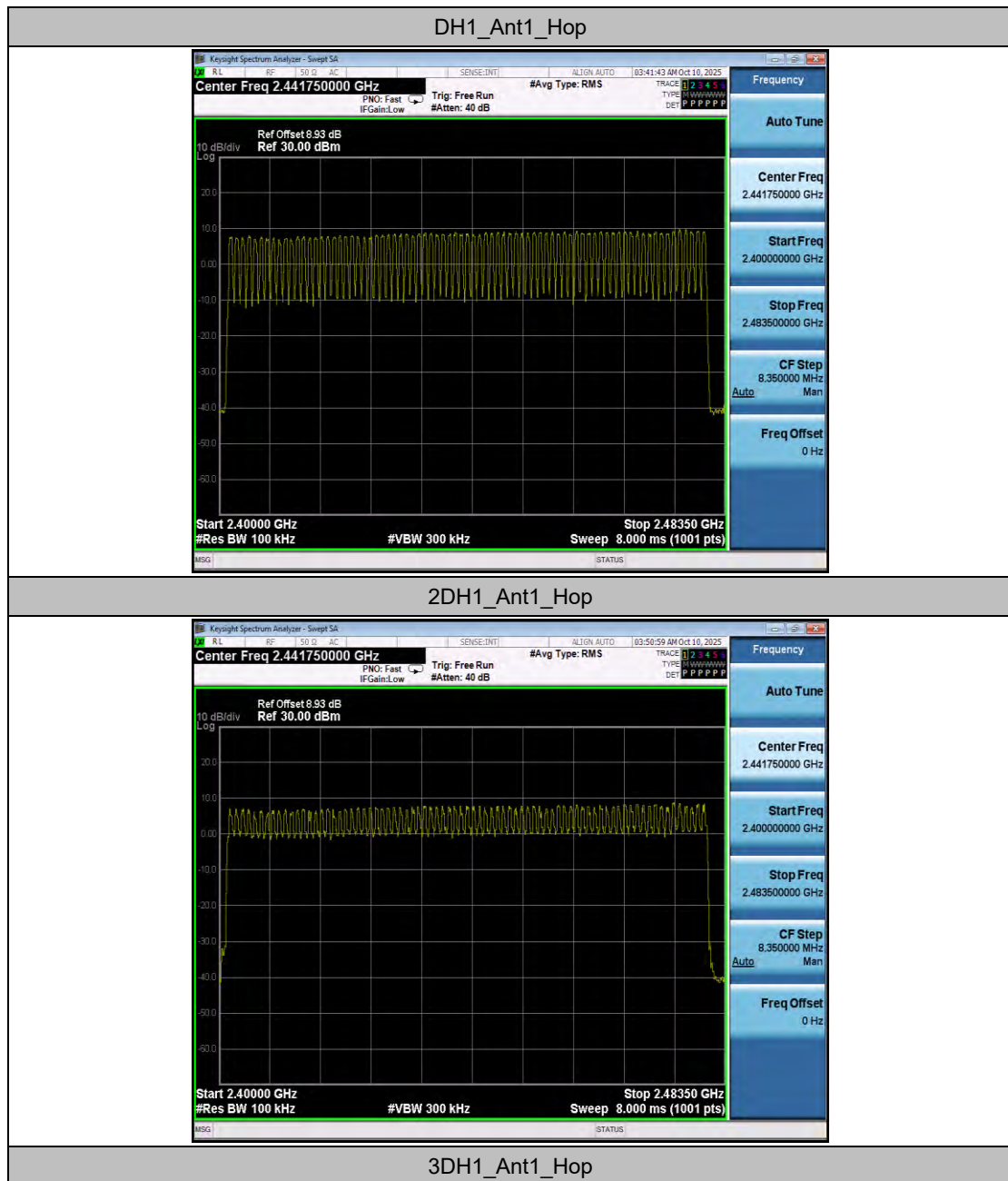


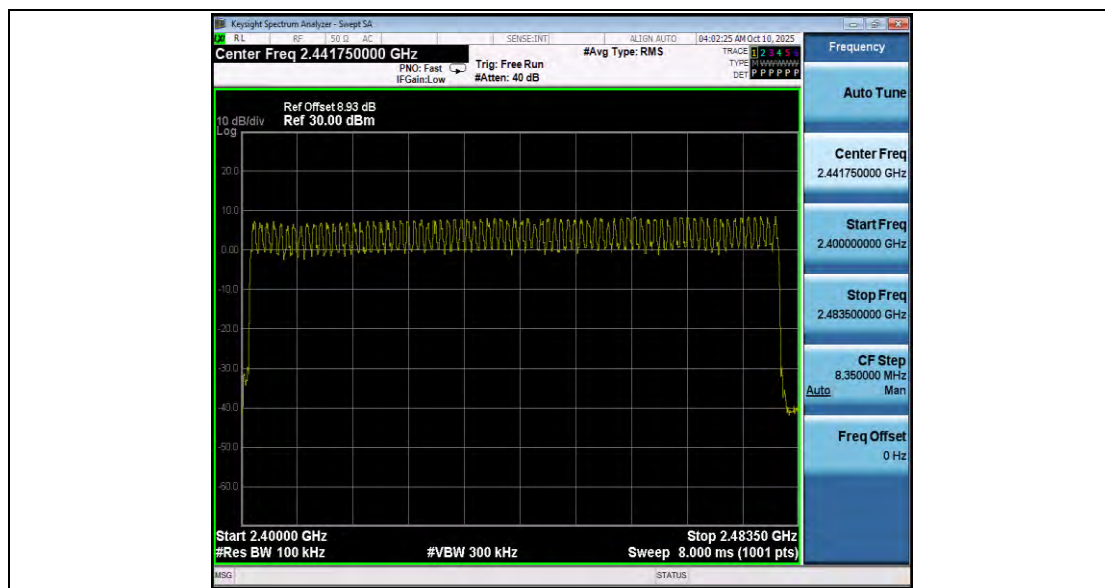
Appendix A.6: Number of hopping channels

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



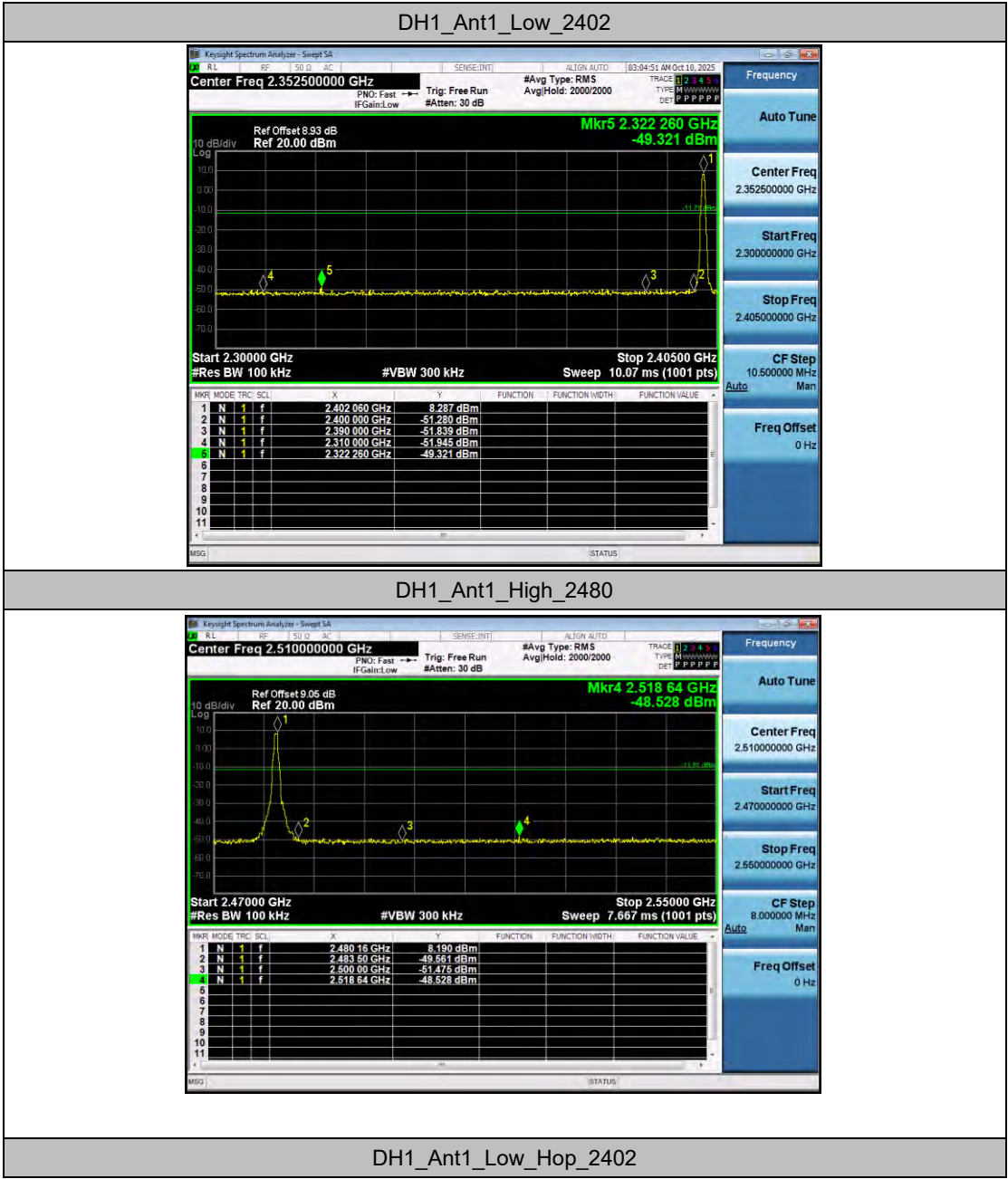


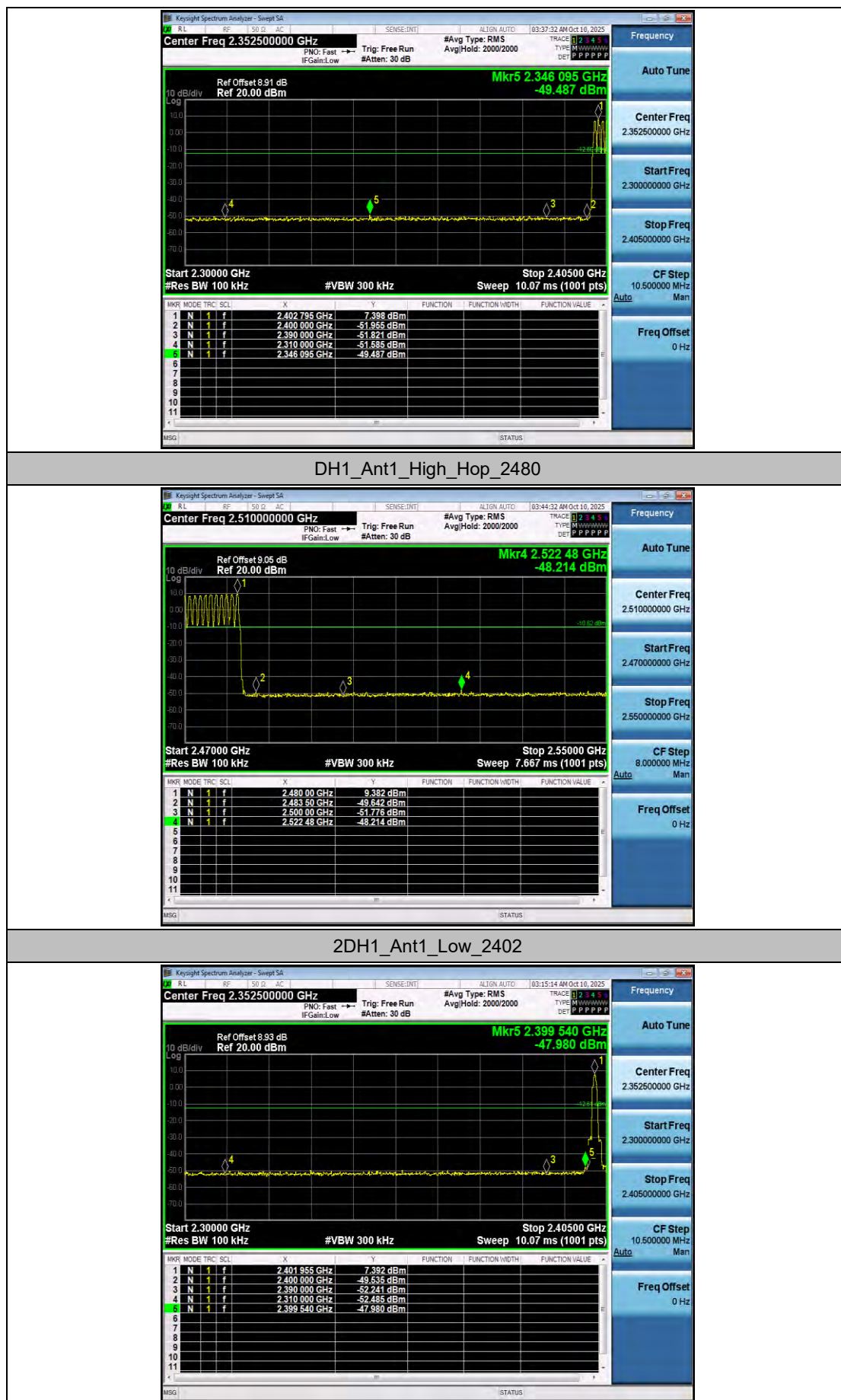
Appendix A.7: Band edge measurements

Test Result

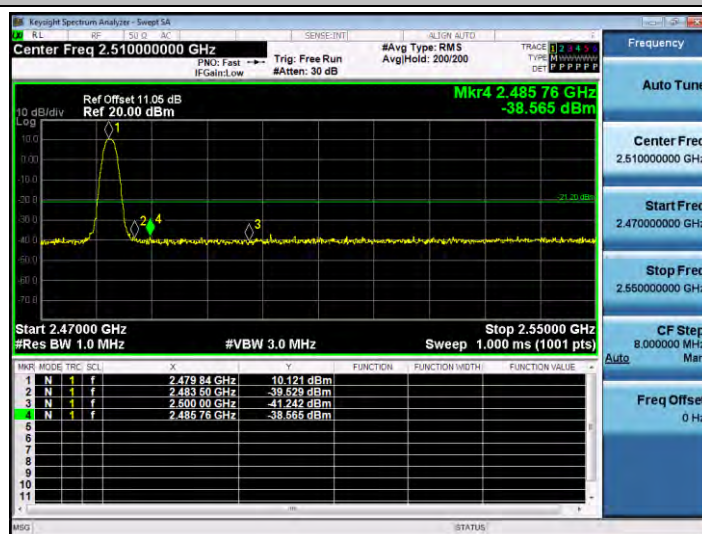
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.29	-49.32	≤ -11.71	PASS
		High	2480	8.19	-42.57	≤ -10.02	PASS
		Low	Hop_2402	7.40	-49.49	≤ -12.6	PASS
		High	Hop_2480	9.38	-48.21	≤ -10.62	PASS
2DH1	Ant1	Low	2402	7.39	-47.98	≤ -12.61	PASS
		High	2480	8.83	-40.47	≤ -11.17	PASS
		Low	Hop_2402	6.90	-49.95	≤ -13.1	PASS
		High	Hop_2480	8.54	-48.25	≤ -11.46	PASS
3DH1	Ant1	Low	2402	7.26	-46.33	≤ -12.74	PASS
		High	2480	8.88	-48.44	≤ -11.12	PASS
		Low	Hop_2402	6.73	-48.15	≤ -13.27	PASS
		High	Hop_2480	8.44	-48.83	≤ -11.56	PASS

Test Graphs

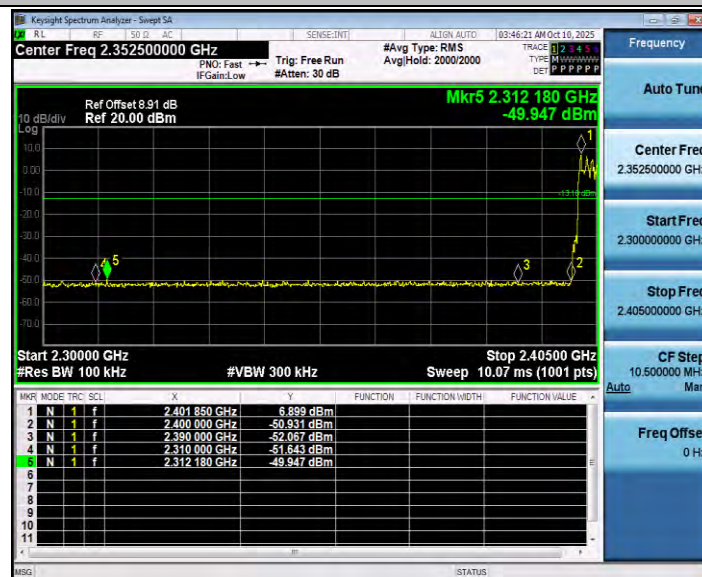




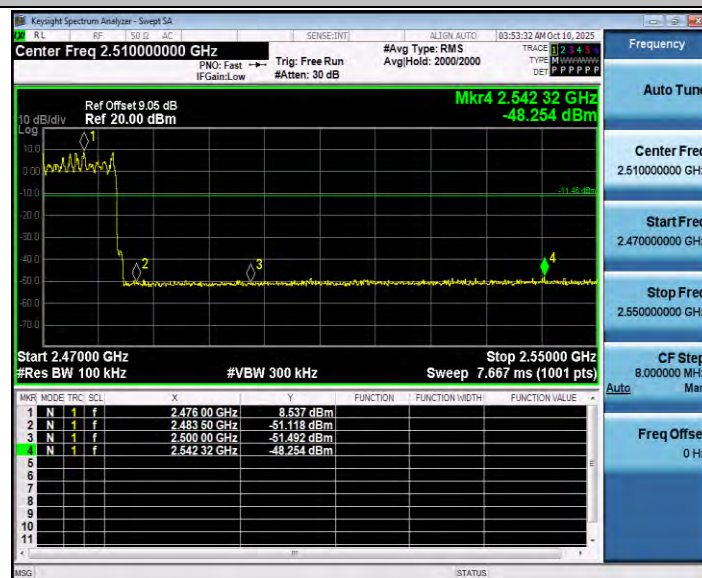
2DH1_Ant1_High_2480



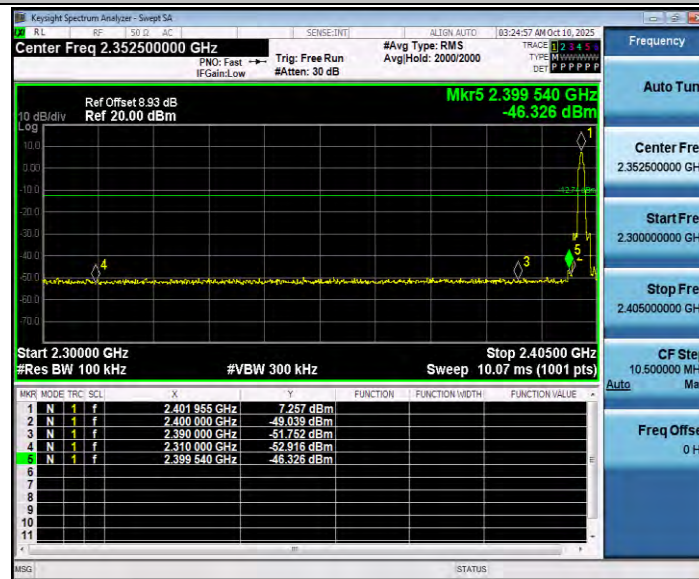
2DH1_Ant1_Low_Hop_2402



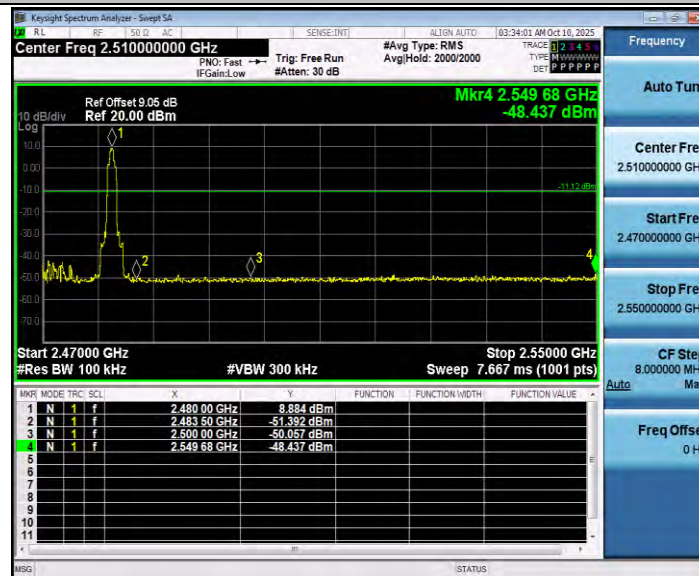
2DH1_Ant1_High_Hop_2480



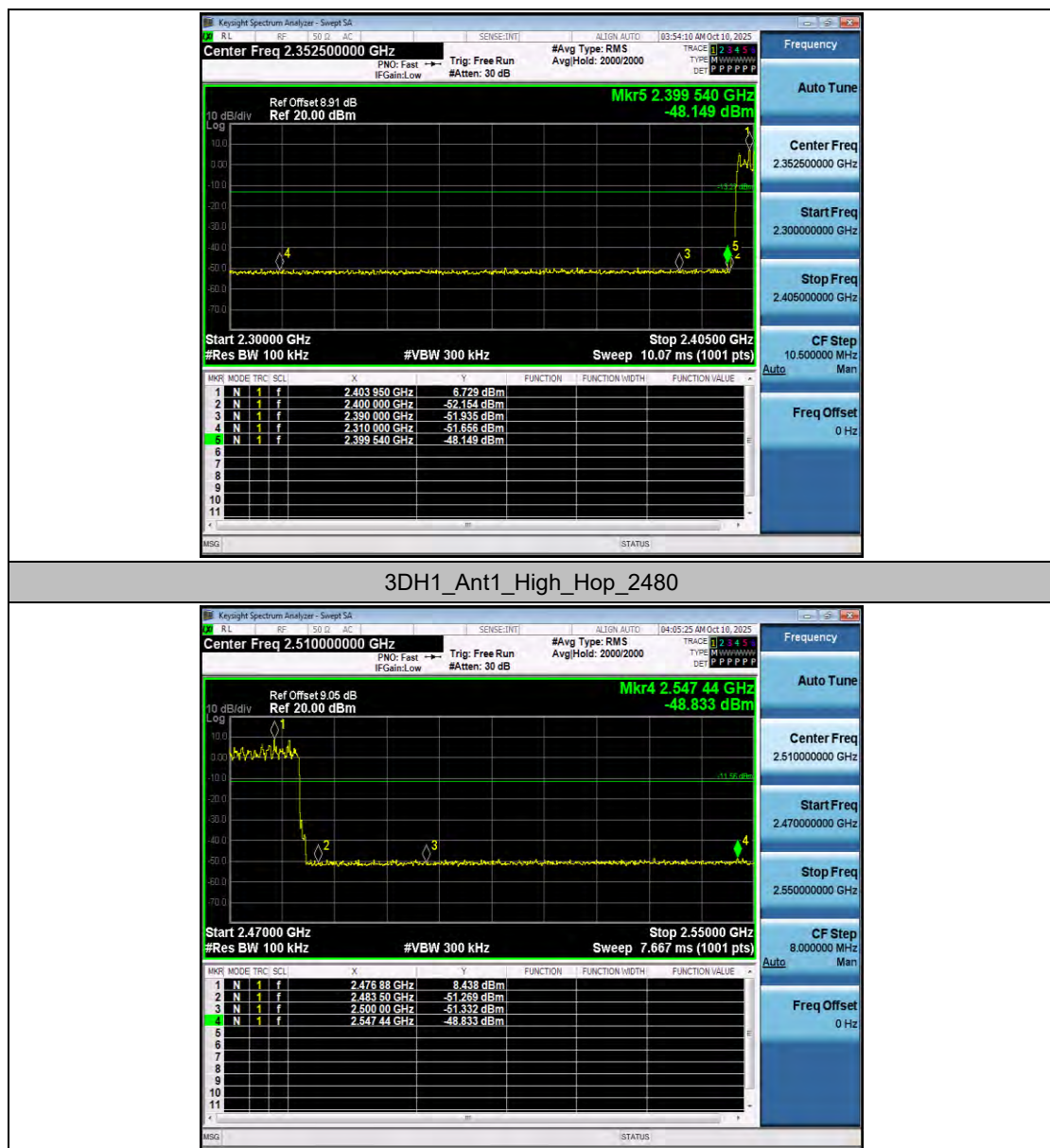
3DH1_Ant1_Low_2402



3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402

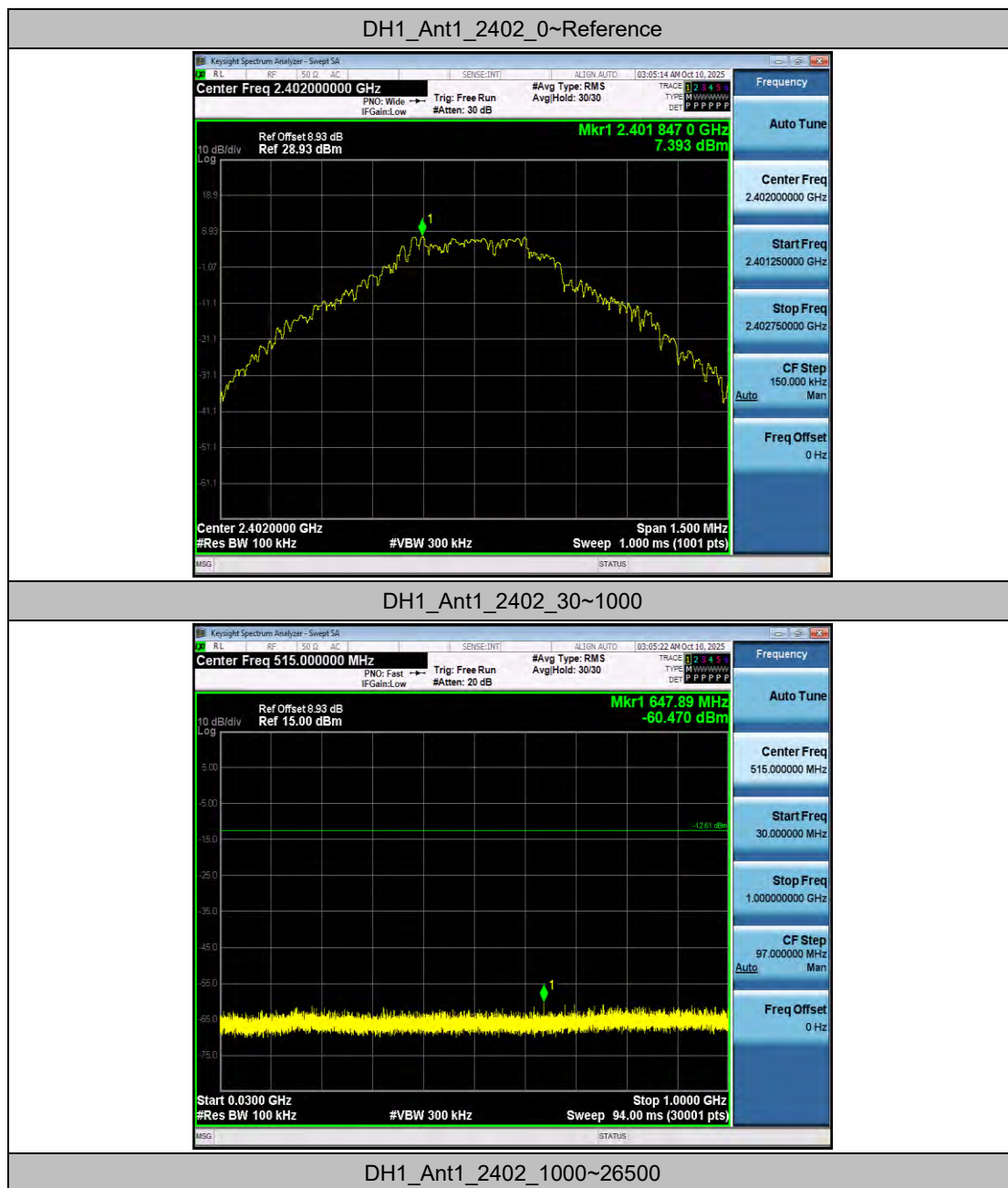


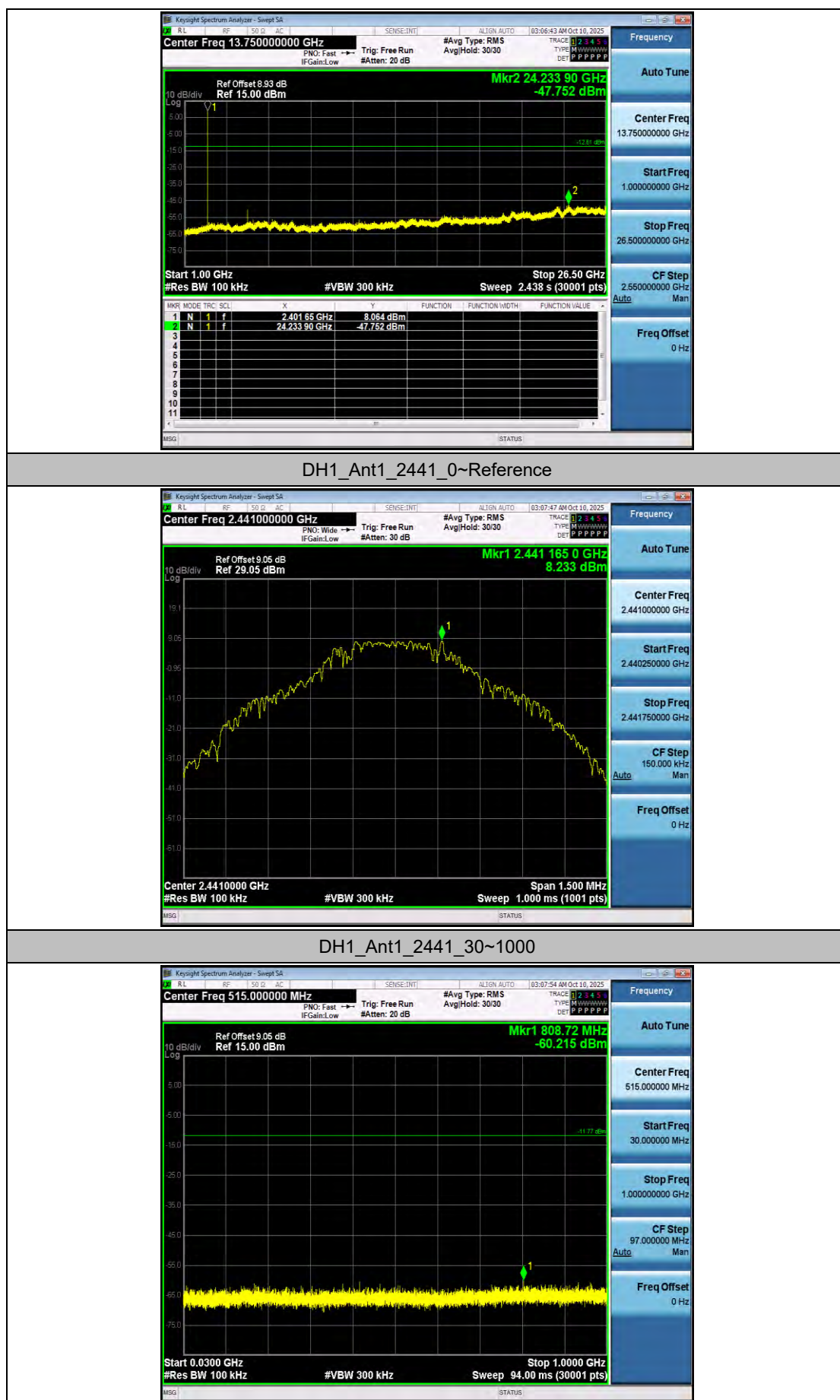
Appendix A.8: Conducted Spurious Emission

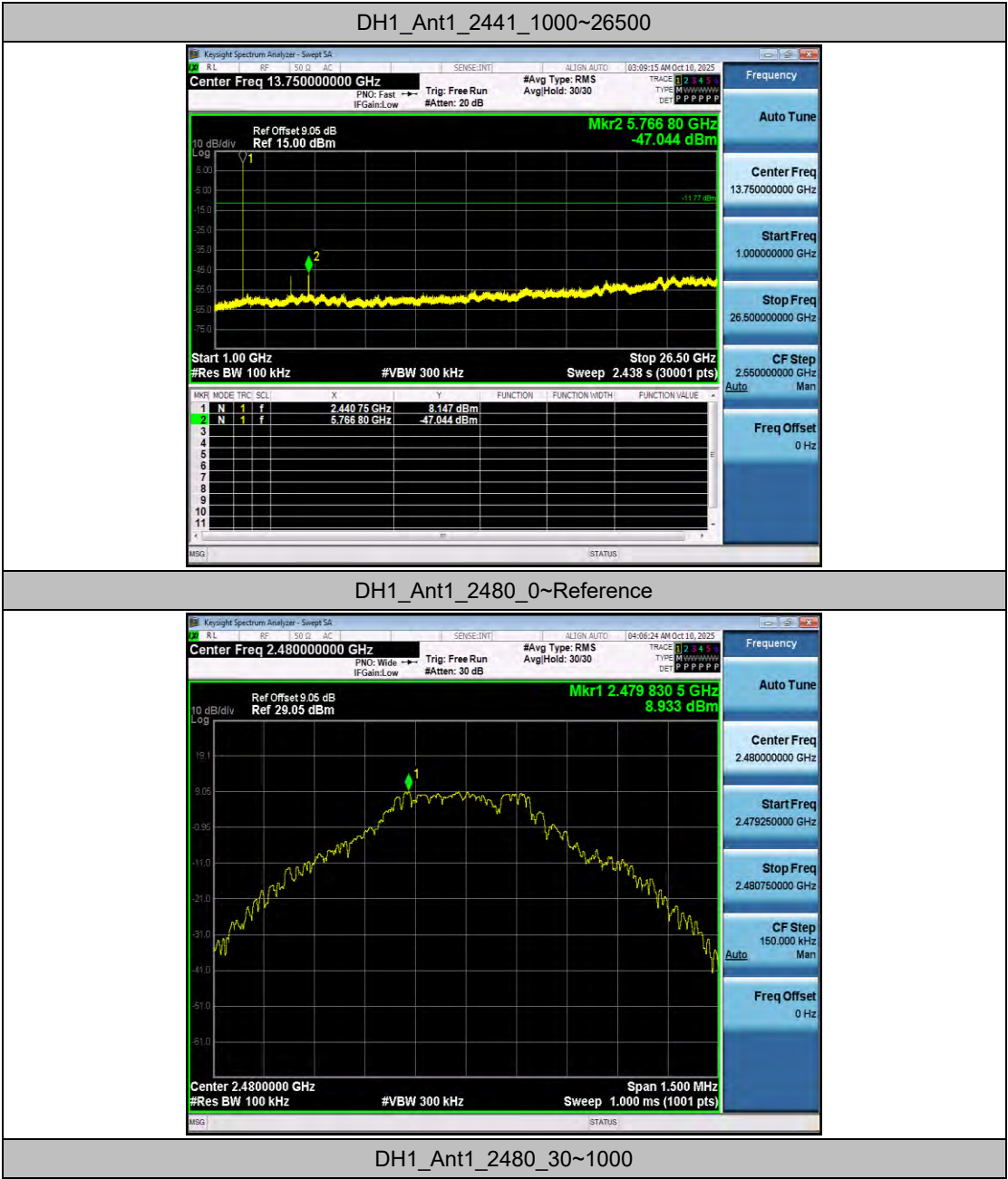
Test Result

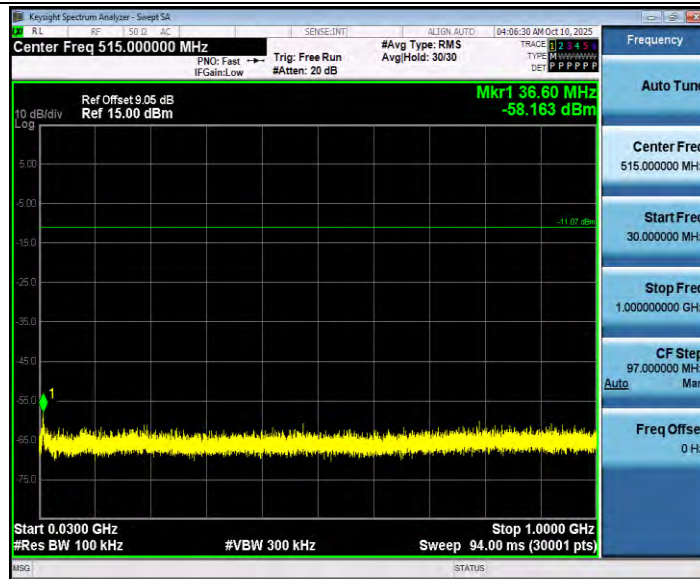
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.39	7.39	---	PASS
			30~1000	7.39	-60.47	≤-12.61	PASS
			1000~26500	7.39	-47.75	≤-12.61	PASS
		2441	Reference	8.23	8.23	---	PASS
			30~1000	8.23	-60.22	≤-11.77	PASS
			1000~26500	8.23	-47.04	≤-11.77	PASS
		2480	Reference	8.93	8.93	---	PASS
			30~1000	8.93	-58.16	≤-11.07	PASS
			1000~26500	8.93	-47.48	≤-11.07	PASS
2DH1	Ant1	2402	Reference	6.58	6.58	---	PASS
			30~1000	6.58	-60.02	≤-13.42	PASS
			1000~26500	6.58	-48.44	≤-13.42	PASS
		2441	Reference	8.01	8.01	---	PASS
			30~1000	8.01	-59.22	≤-11.99	PASS
			1000~26500	8.01	-47.96	≤-11.99	PASS
		2480	Reference	8.45	8.45	---	PASS
			30~1000	8.45	-59.88	≤-11.55	PASS
			1000~26500	8.45	-47.57	≤-11.55	PASS
3DH1	Ant1	2402	Reference	5.65	5.65	---	PASS
			30~1000	5.65	-60.57	≤-14.35	PASS
			1000~26500	5.65	-47.99	≤-14.35	PASS
		2441	Reference	7.73	7.73	---	PASS
			30~1000	7.73	-59.39	≤-12.27	PASS
			1000~26500	7.73	-46.56	≤-12.27	PASS
		2480	Reference	8.66	8.66	---	PASS
			30~1000	8.66	-58.25	≤-11.34	PASS
			1000~26500	8.66	-47.75	≤-11.34	PASS

Test Graphs







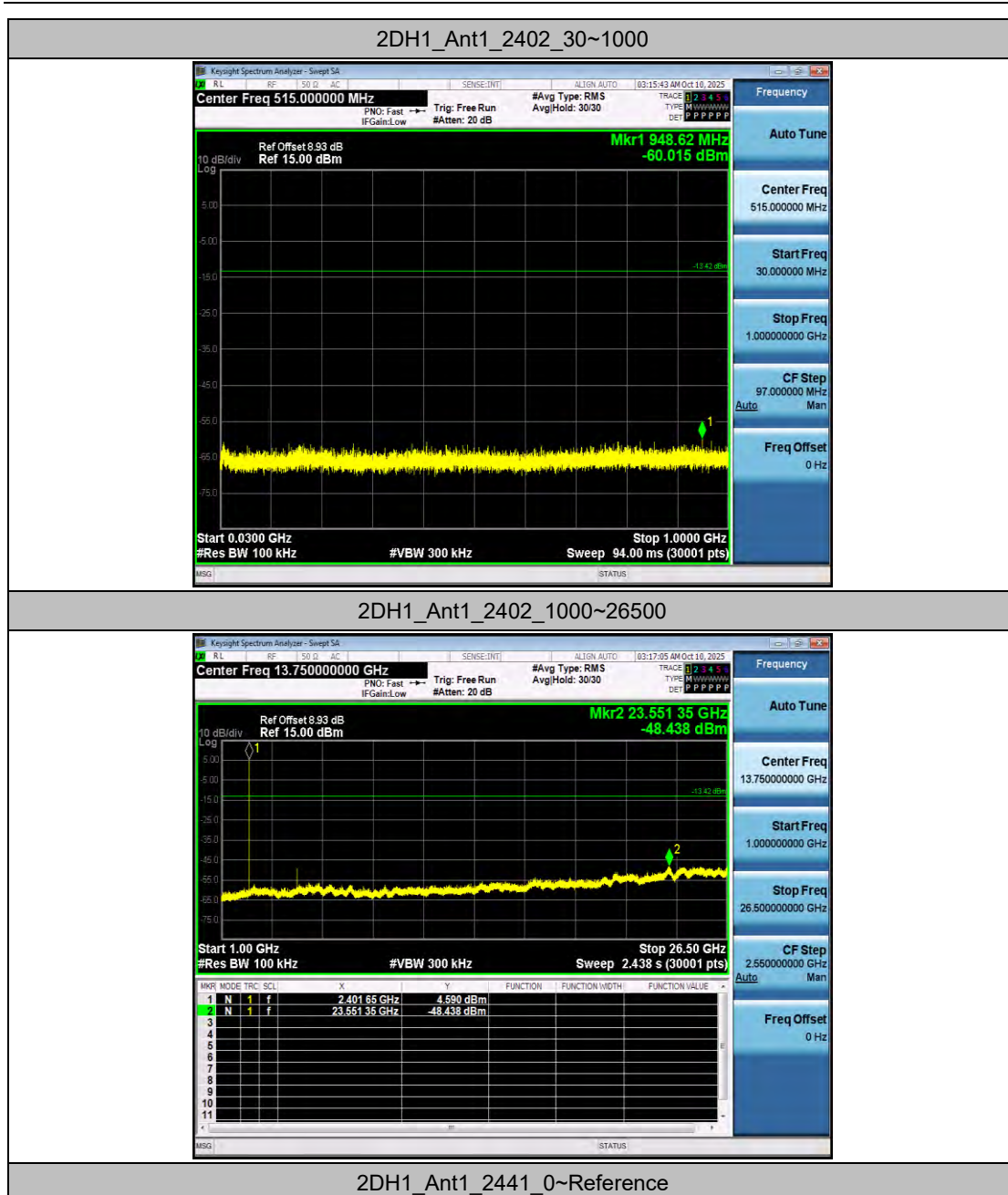


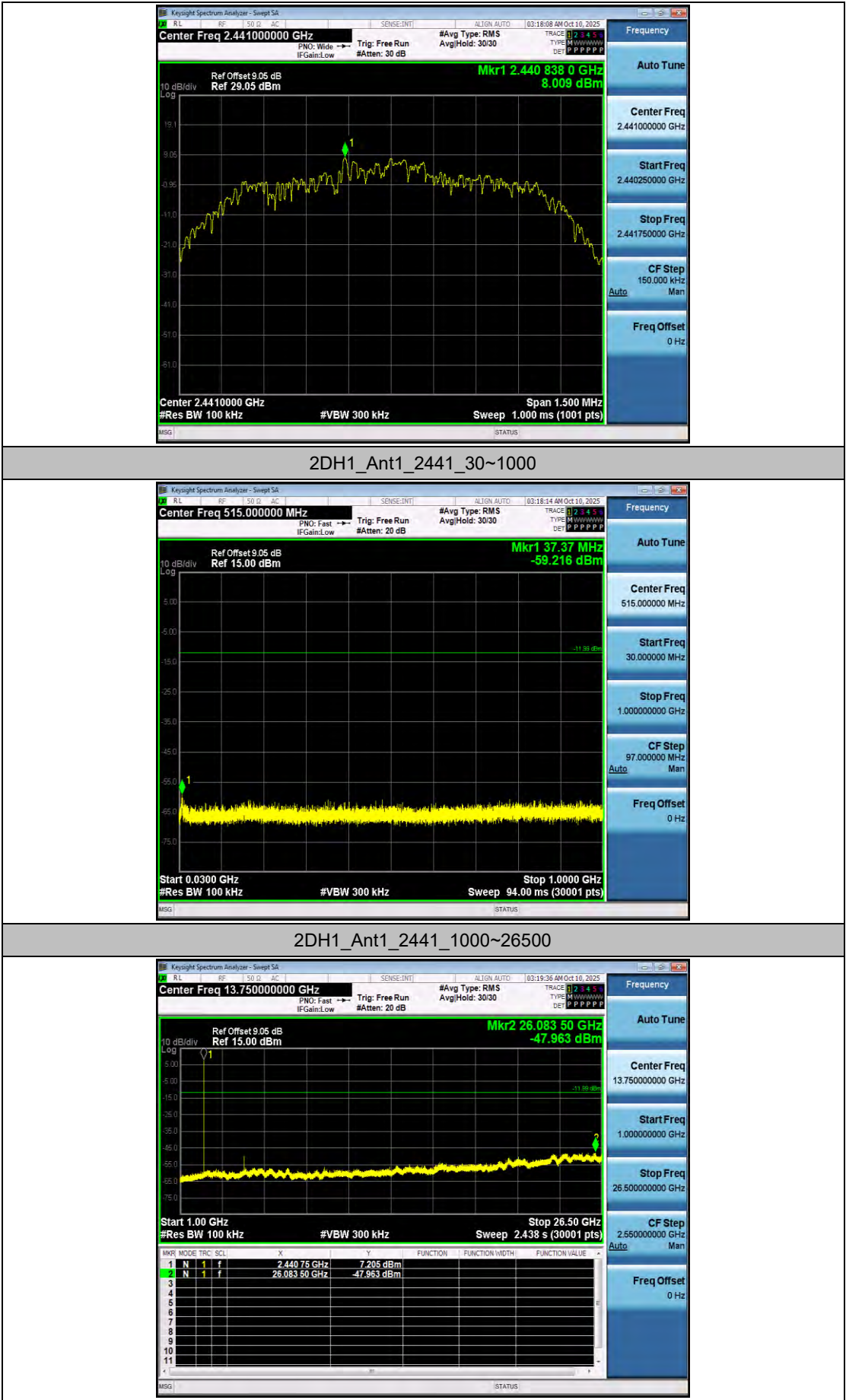
DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference







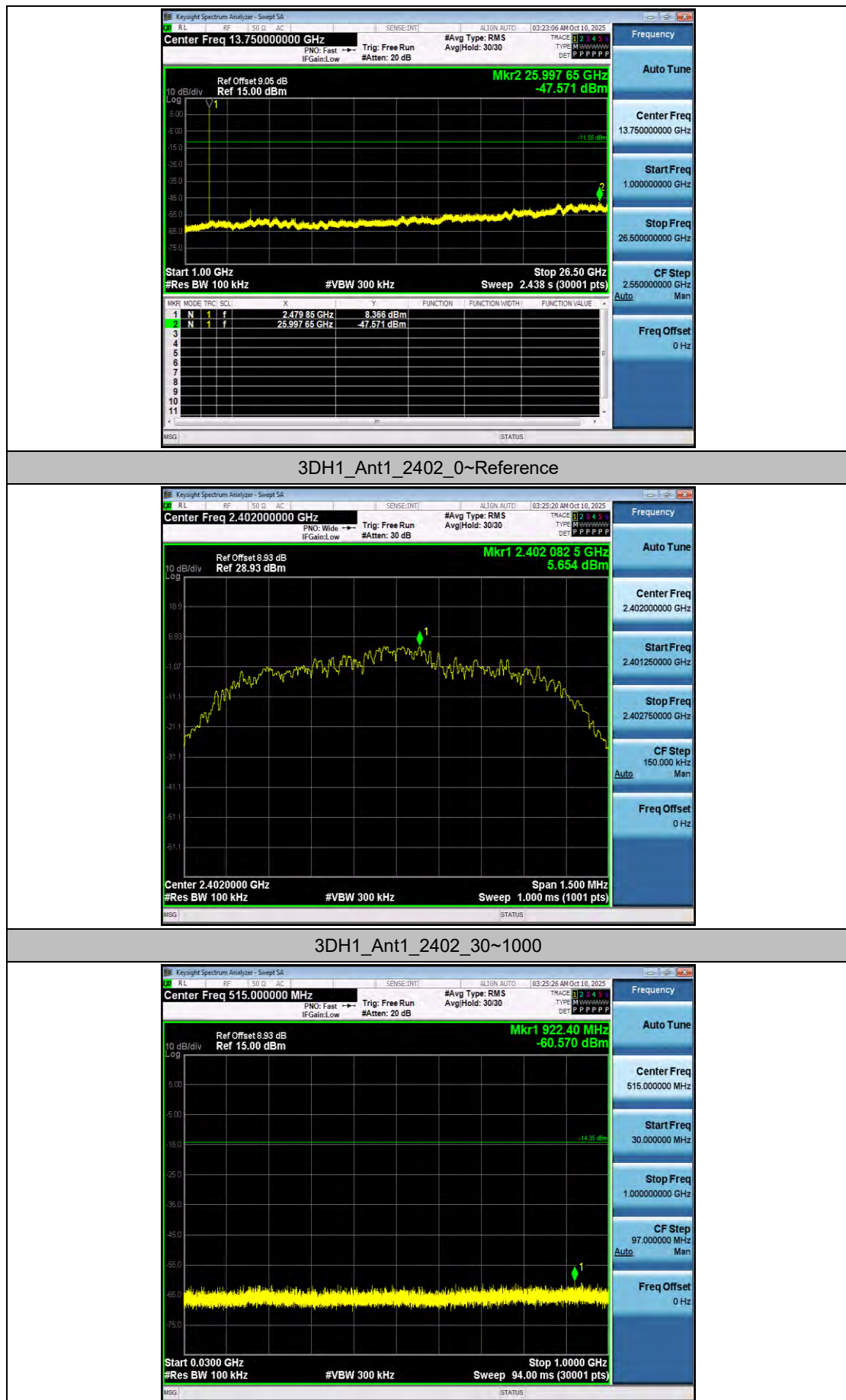
2DH1_Ant1_2480_0~Reference

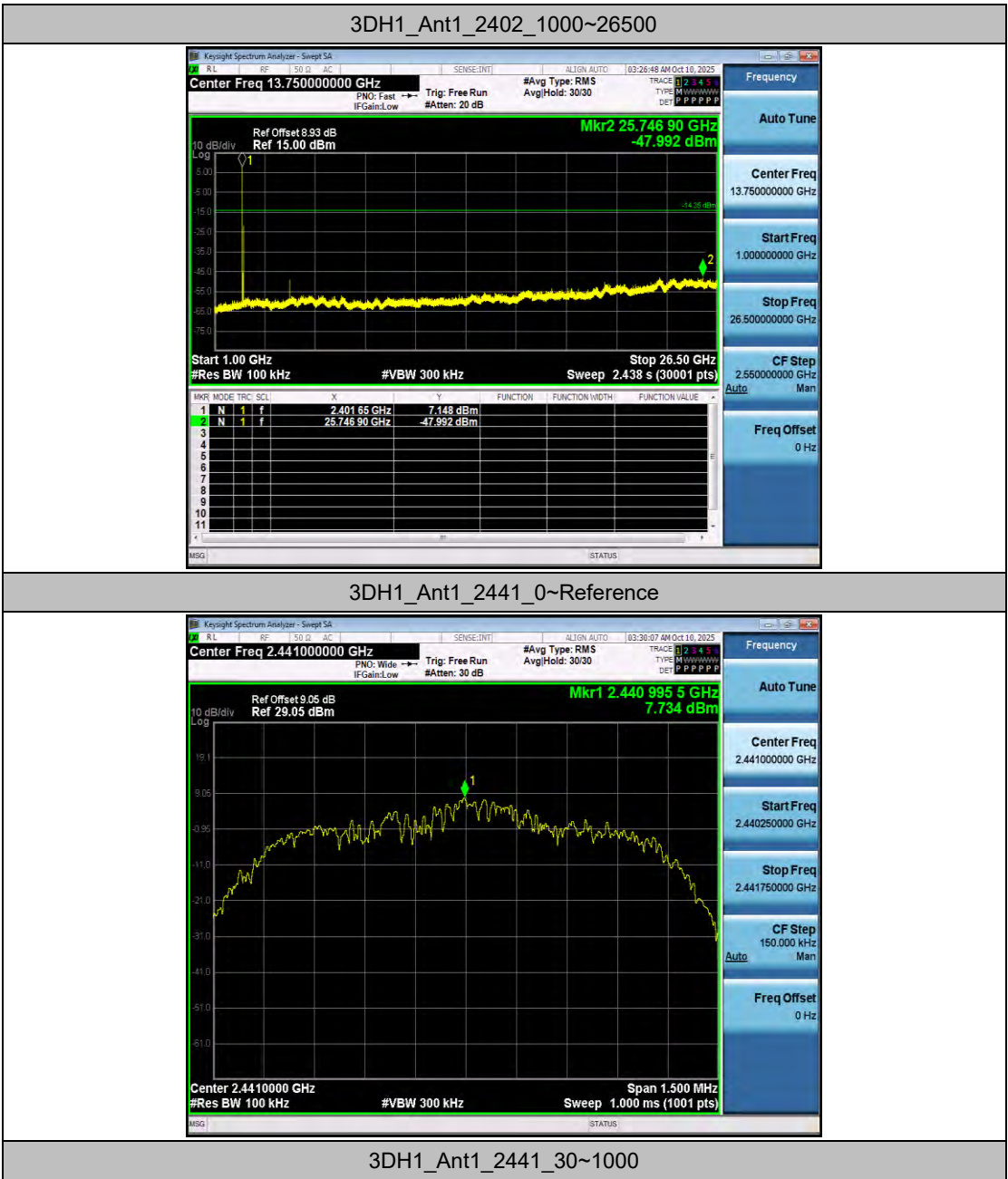


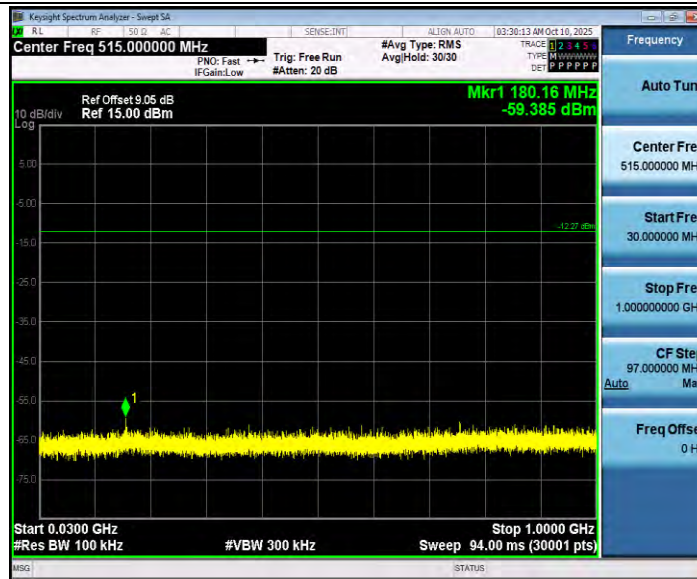
2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500





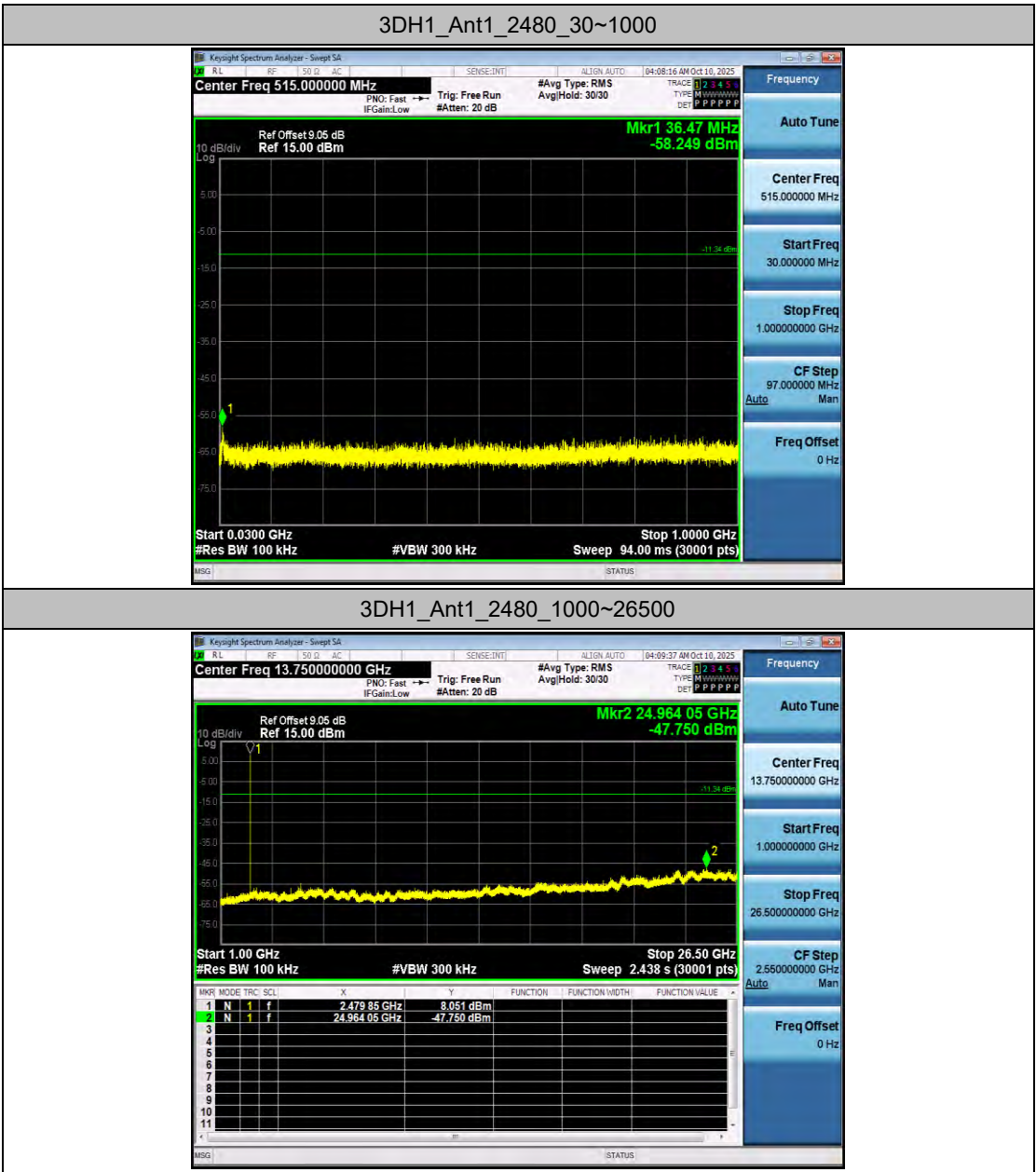


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

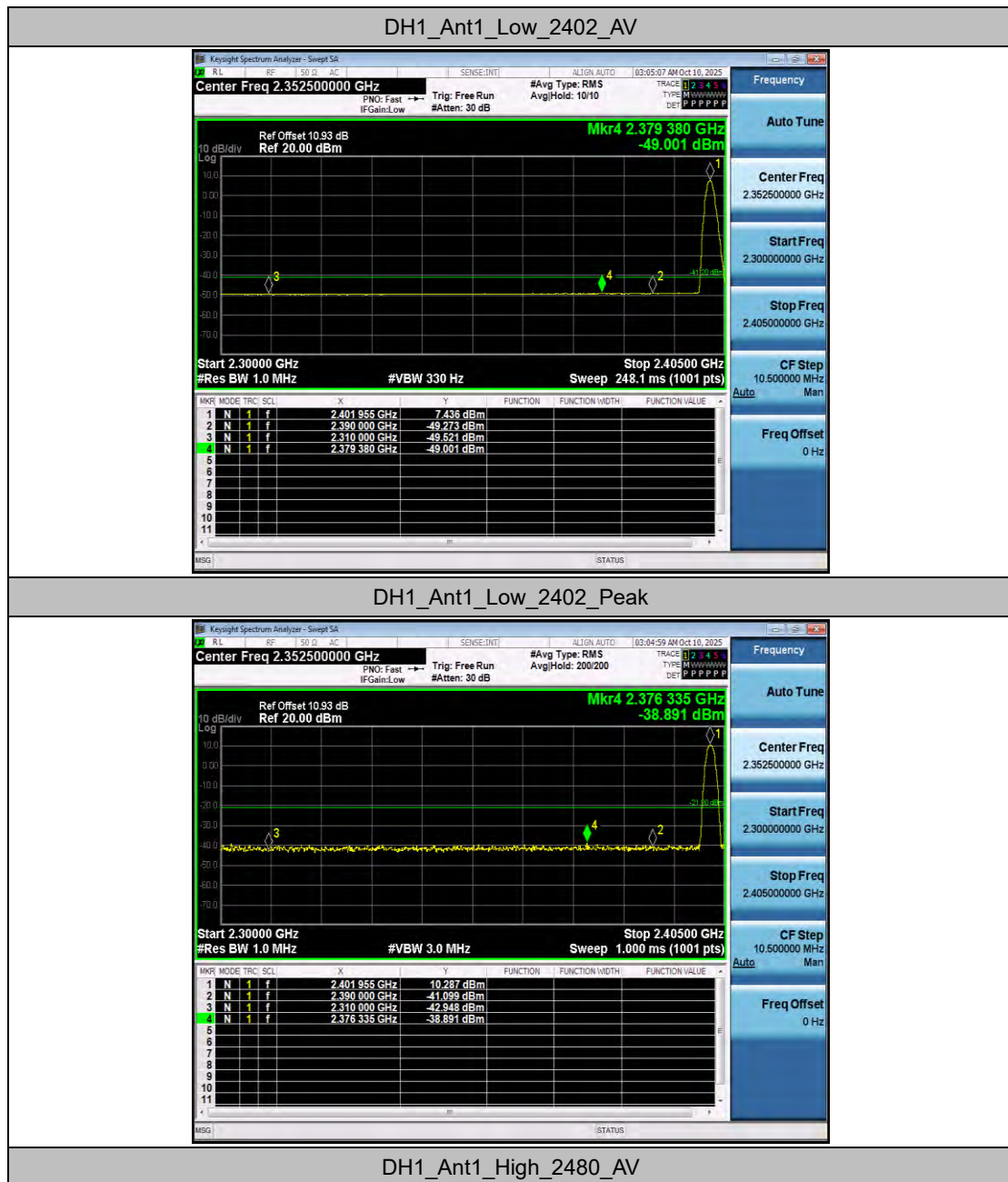
Test Result

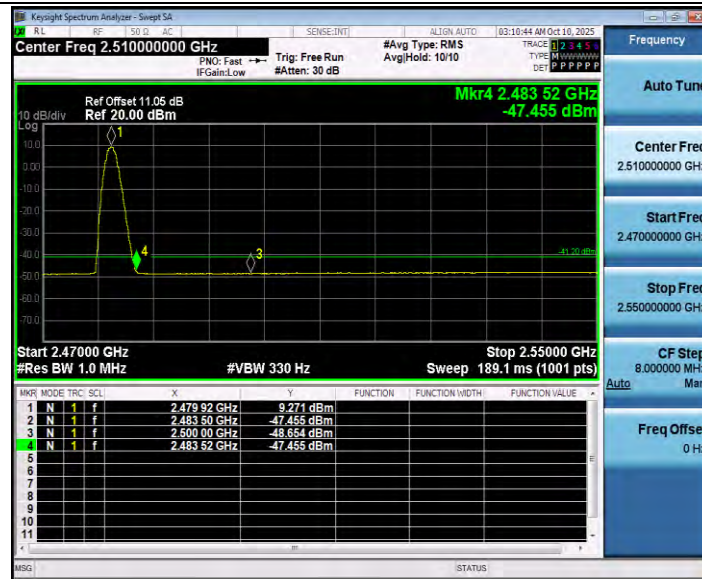
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.52	≤-41.20	45.68	≤54	PASS
				AV	2379.380	-49	≤-41.20	46.20	≤54	PASS
				AV	2390.000	-49.27	≤-41.20	45.93	≤54	PASS
				Peak	2310.000	-42.95	≤-21.20	52.25	≤74	PASS
				Peak	2376.335	-38.89	≤-21.20	56.31	≤74	PASS
				Peak	2390.000	-41.1	≤-21.20	54.10	≤74	PASS
		High	2480	AV	2483.500	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2483.520	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2500.000	-48.65	≤-41.20	46.55	≤54	PASS
				Peak	2483.500	-41.08	≤-21.20	54.12	≤74	PASS
				Peak	2497.280	-37.87	≤-21.20	57.33	≤74	PASS
				Peak	2500.000	-40.75	≤-21.20	54.45	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.61	≤-41.20	45.59	≤54	PASS
				AV	2384.840	-49.12	≤-41.20	46.08	≤54	PASS
				AV	2390.000	-49.26	≤-41.20	45.94	≤54	PASS
				Peak	2310.000	-42.4	≤-21.20	52.80	≤74	PASS
				Peak	2366.780	-38.49	≤-21.20	56.71	≤74	PASS
				Peak	2390.000	-42.17	≤-21.20	53.03	≤74	PASS
		High	2480	AV	2483.500	-47.48	≤-41.20	47.72	≤54	PASS
				AV	2483.520	-47.48	≤-41.20	47.72	≤54	PASS
				AV	2500.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2483.500	-40.71	≤-21.20	54.49	≤74	PASS
				Peak	2496.640	-38.77	≤-21.20	56.43	≤74	PASS
				Peak	2500.000	-40.52	≤-21.20	54.68	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.65	≤-41.20	45.55	≤54	PASS
				AV	2359.325	-48.94	≤-41.20	46.26	≤54	PASS
				AV	2390.000	-49.26	≤-41.20	45.94	≤54	PASS
				Peak	2310.000	-41.64	≤-21.20	53.56	≤74	PASS
				Peak	2315.960	-38.96	≤-21.20	56.24	≤74	PASS
				Peak	2390.000	-39.64	≤-21.20	55.56	≤74	PASS
		High	2480	AV	2483.500	-47.51	≤-41.20	47.69	≤54	PASS
				AV	2483.520	-47.51	≤-41.20	47.69	≤54	PASS
				AV	2500.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2483.500	-40.59	≤-21.20	54.61	≤74	PASS
				Peak	2484.880	-38.58	≤-21.20	56.62	≤74	PASS
				Peak	2500.000	-40.35	≤-21.20	54.85	≤74	PASS

Note:

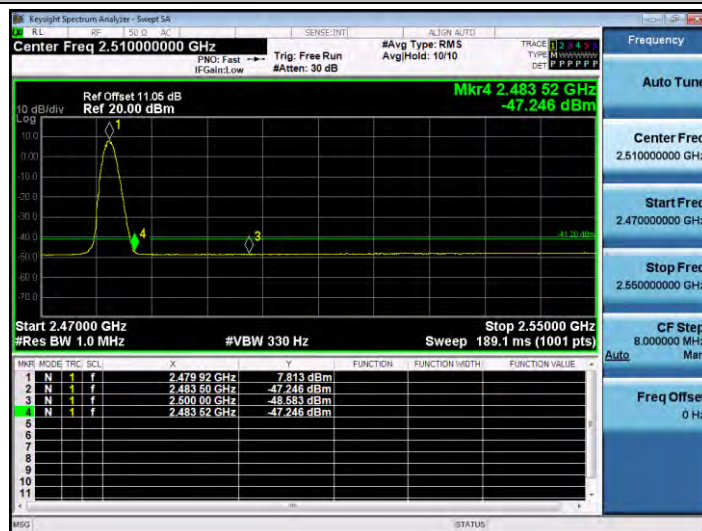
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





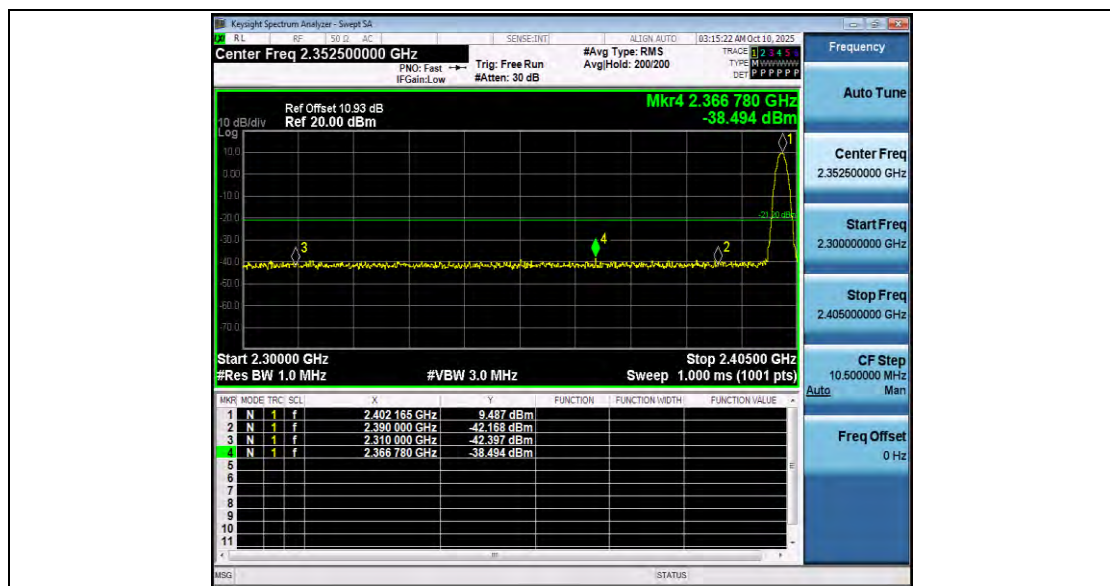
DH1_Ant1_High_2480_Peak



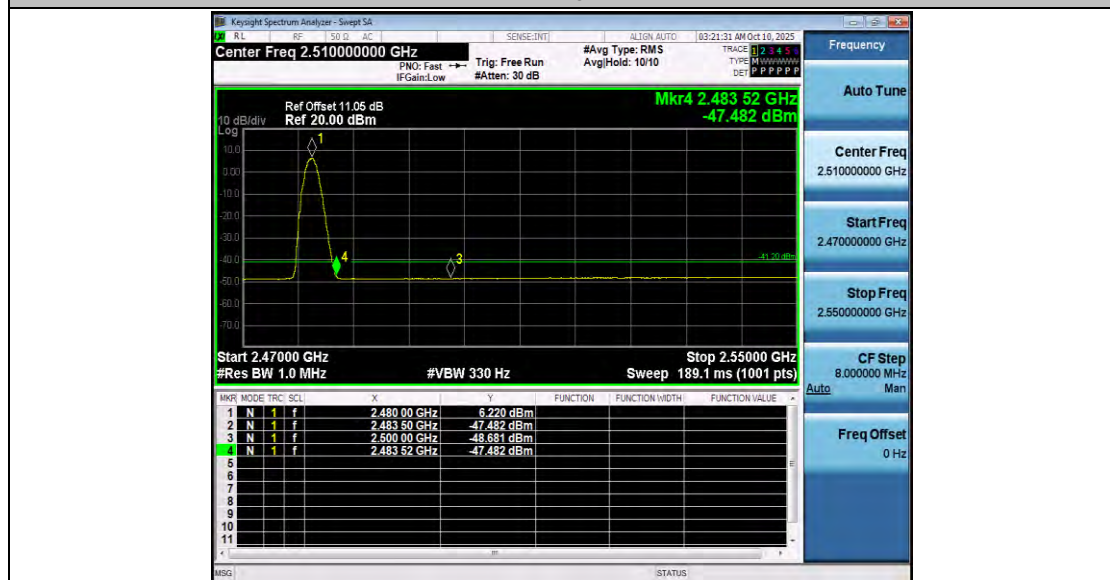
2DH1_Ant1_Low_2402_AV



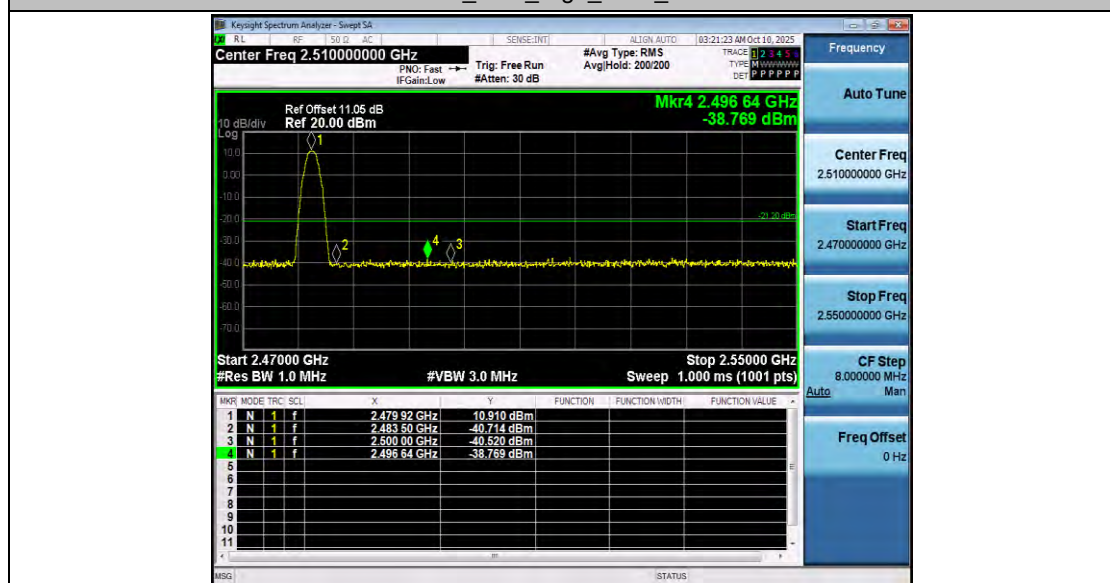
2DH1_Ant1_Low_2402_Peak



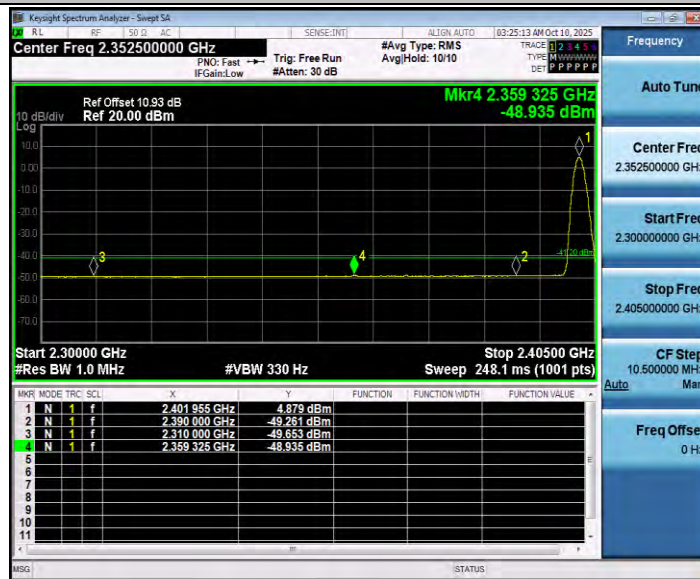
2DH1_Ant1_High_2480_AV



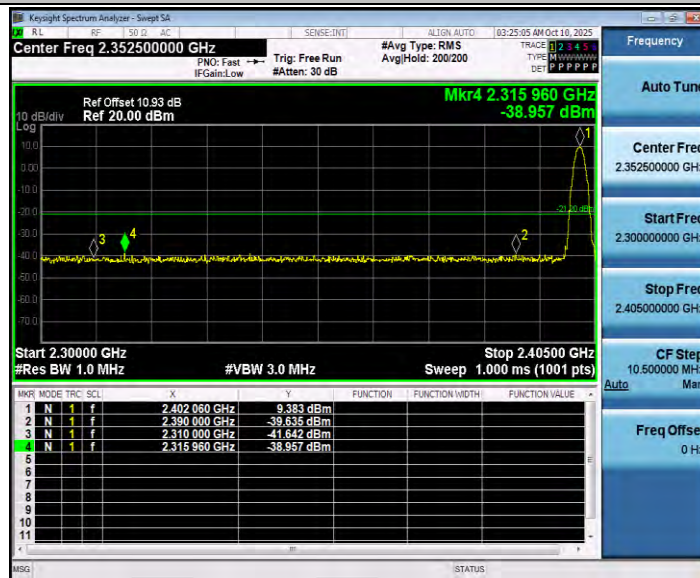
2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak



3DH1_Ant1_High_2480_AV

