

Case No. : <u>GTS20250815010-2-01</u>	
Ambient Condition: <u>25</u> °C, <u>55</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.8.21-9.3</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	0.786	2401.613	2402.399	---	---
		2441	0.786	2440.613	2441.399	---	---
		2480	0.867	2479.556	2480.423	---	---
2DH1	Ant1	2402	1.242	2401.370	2402.612	---	---
		2441	1.254	2440.367	2441.621	---	---
		2480	1.227	2479.370	2480.597	---	---
3DH1	Ant1	2402	1.254	2401.370	2402.624	---	---
		2441	1.227	2440.391	2441.618	---	---
		2480	1.227	2479.394	2480.621	---	---

Test Graphs

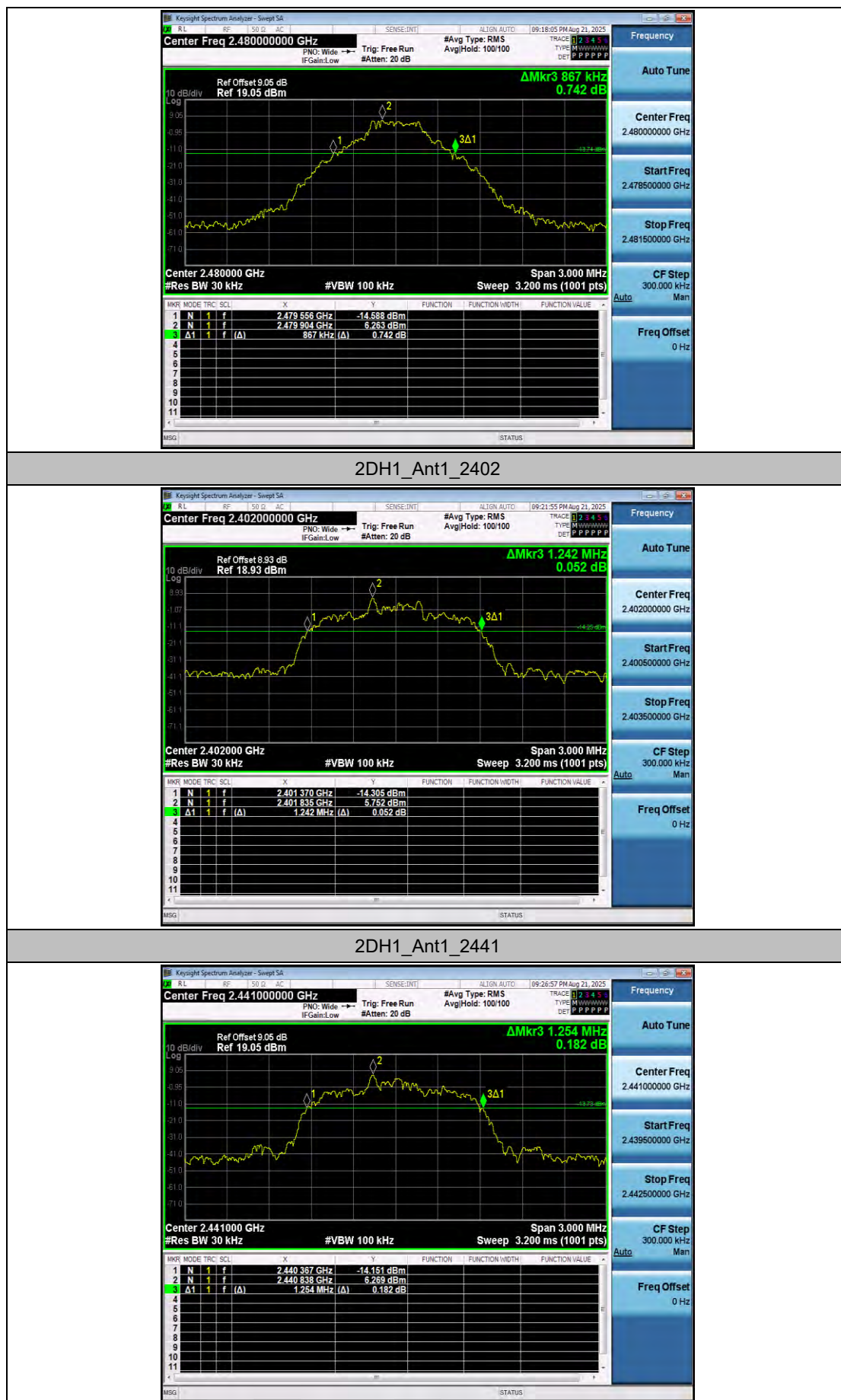
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441

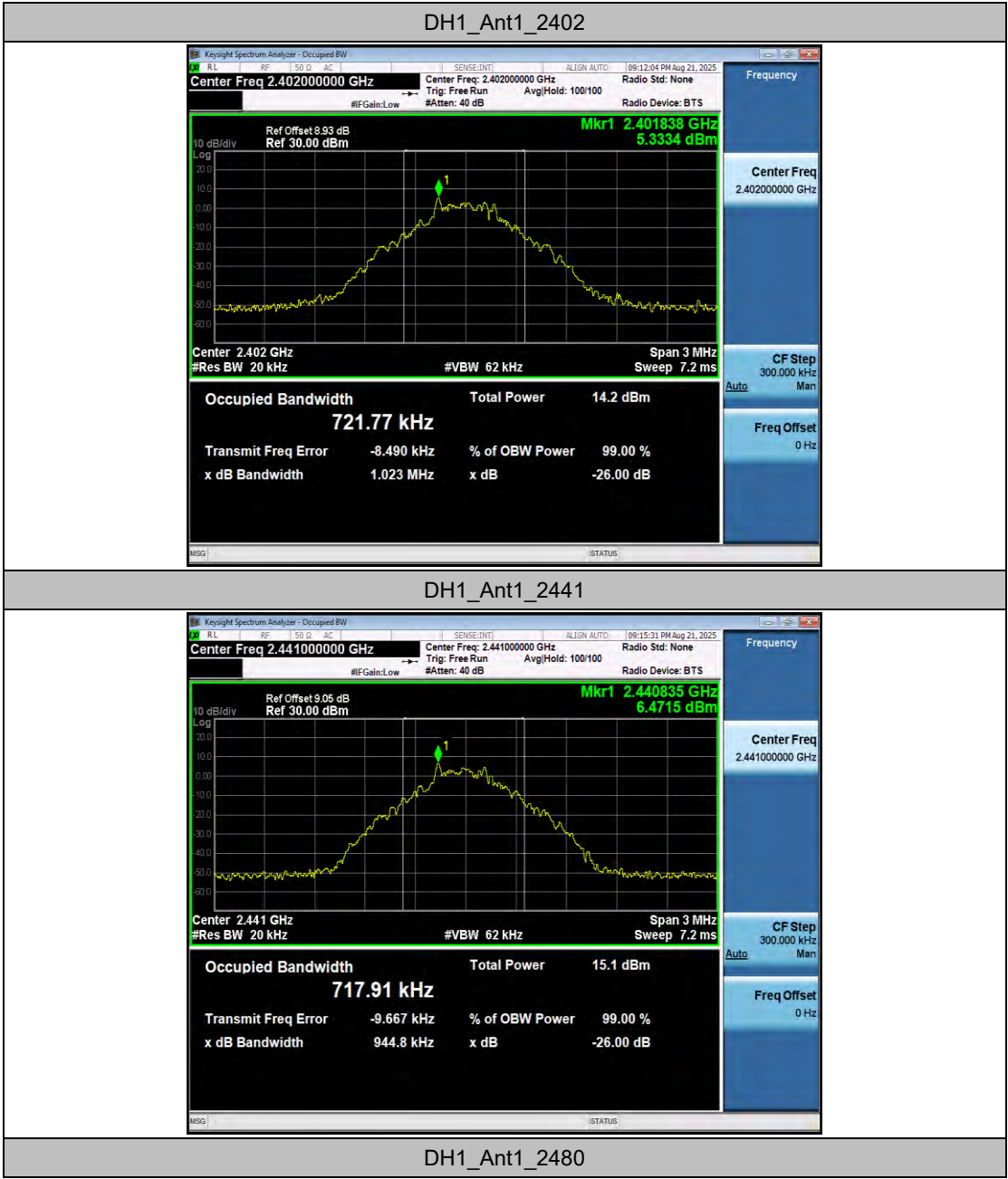


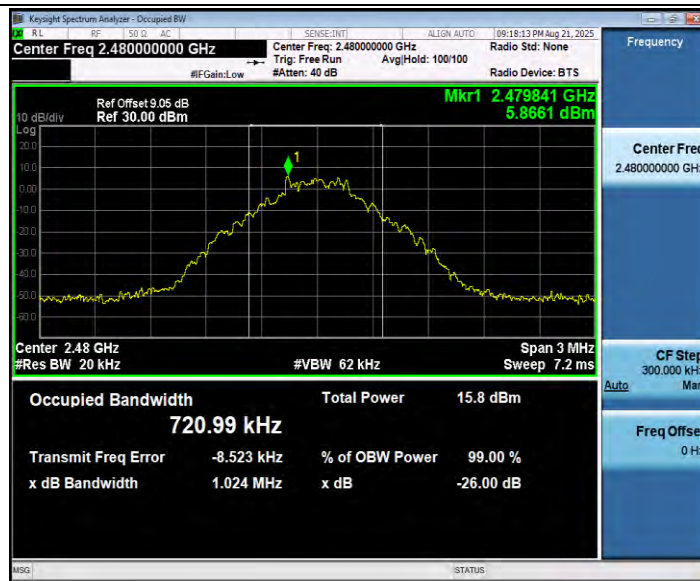
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.72177	2401.6306	2402.3524	---	---
		2441	0.71791	2440.6314	2441.3493	---	---
		2480	0.72099	2479.6310	2480.3520	---	---
2DH1	Ant1	2402	1.1448	2401.4235	2402.5683	---	---
		2441	1.1424	2440.4232	2441.5656	---	---
		2480	1.1265	2479.4279	2480.5544	---	---
3DH1	Ant1	2402	1.1403	2401.4354	2402.5757	---	---
		2441	1.1322	2440.4376	2441.5698	---	---
		2480	1.1421	2479.4337	2480.5758	---	---

Test Graphs



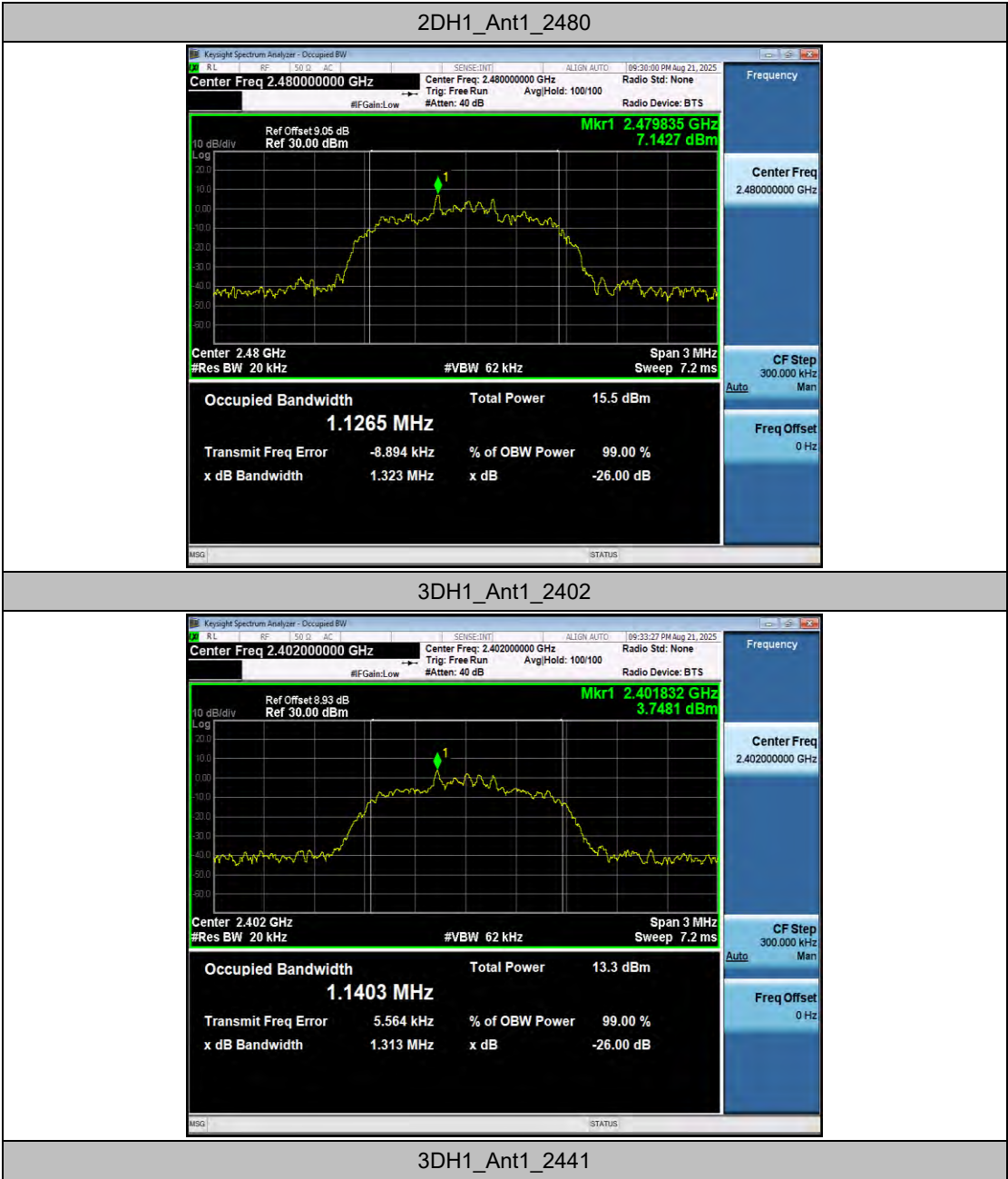


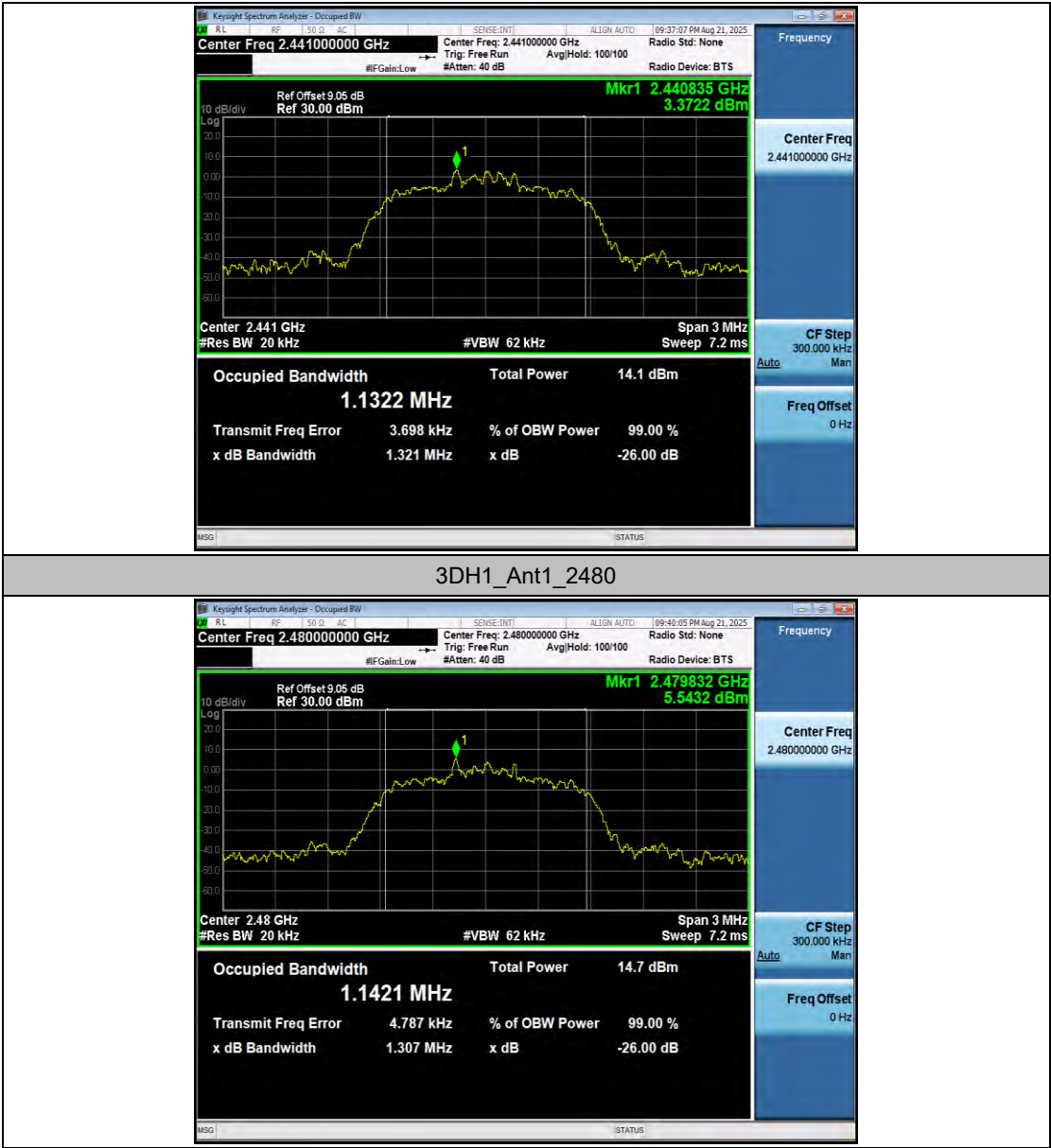
2DH1_Ant1_2402



2DH1_Ant1_2441







Appendix A.3: Maximum conducted output power

Test Result Peak

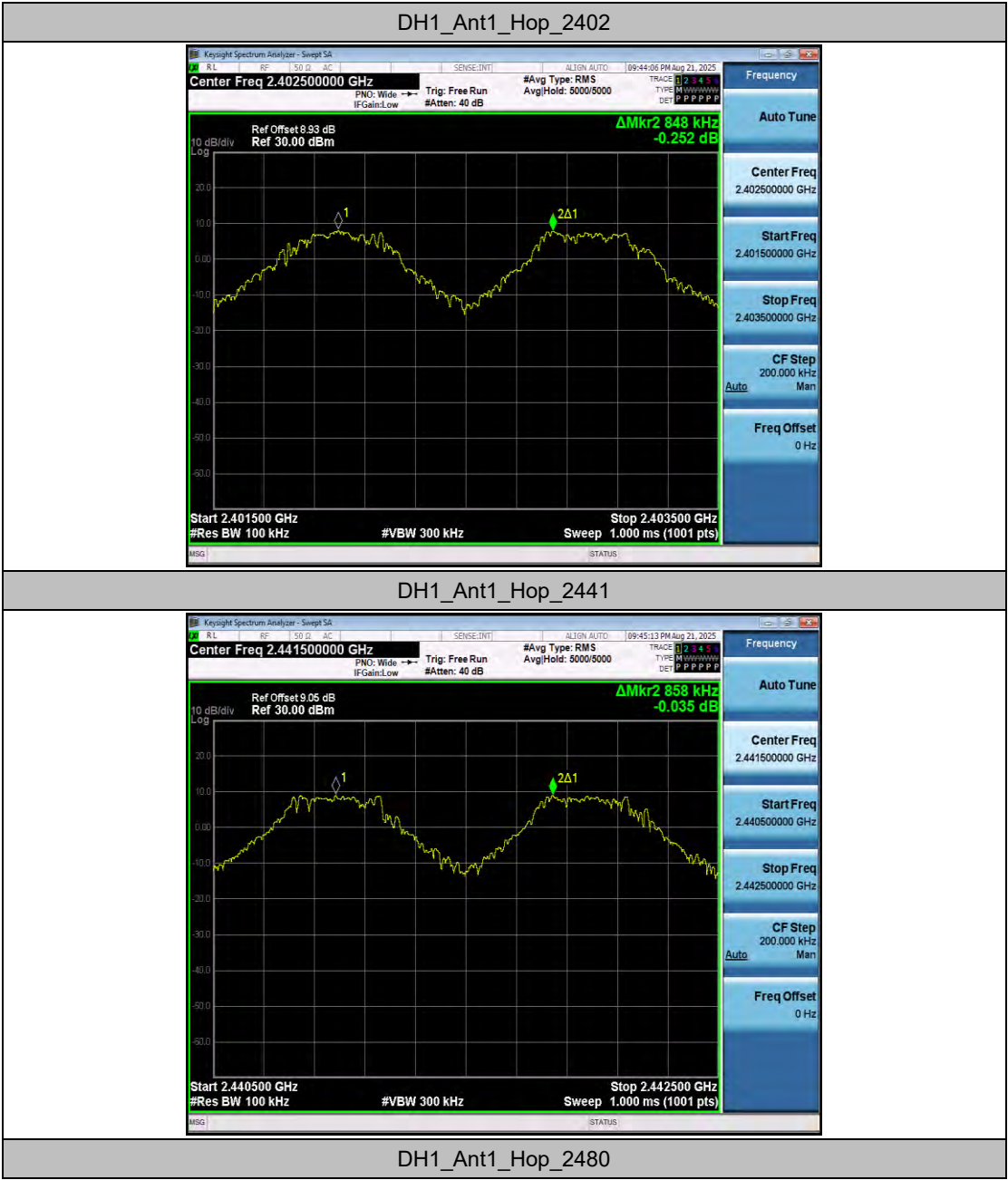
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	3.41	≤20.97	PASS
		2441	3.15	≤20.97	PASS
		2480	4.19	≤20.97	PASS
2DH1	Ant1	2402	0.29	≤20.97	PASS
		2441	2.93	≤20.97	PASS
		2480	3.90	≤20.97	PASS
3DH1	Ant1	2402	0.22	≤20.97	PASS
		2441	2.94	≤20.97	PASS
		2480	3.86	≤20.97	PASS

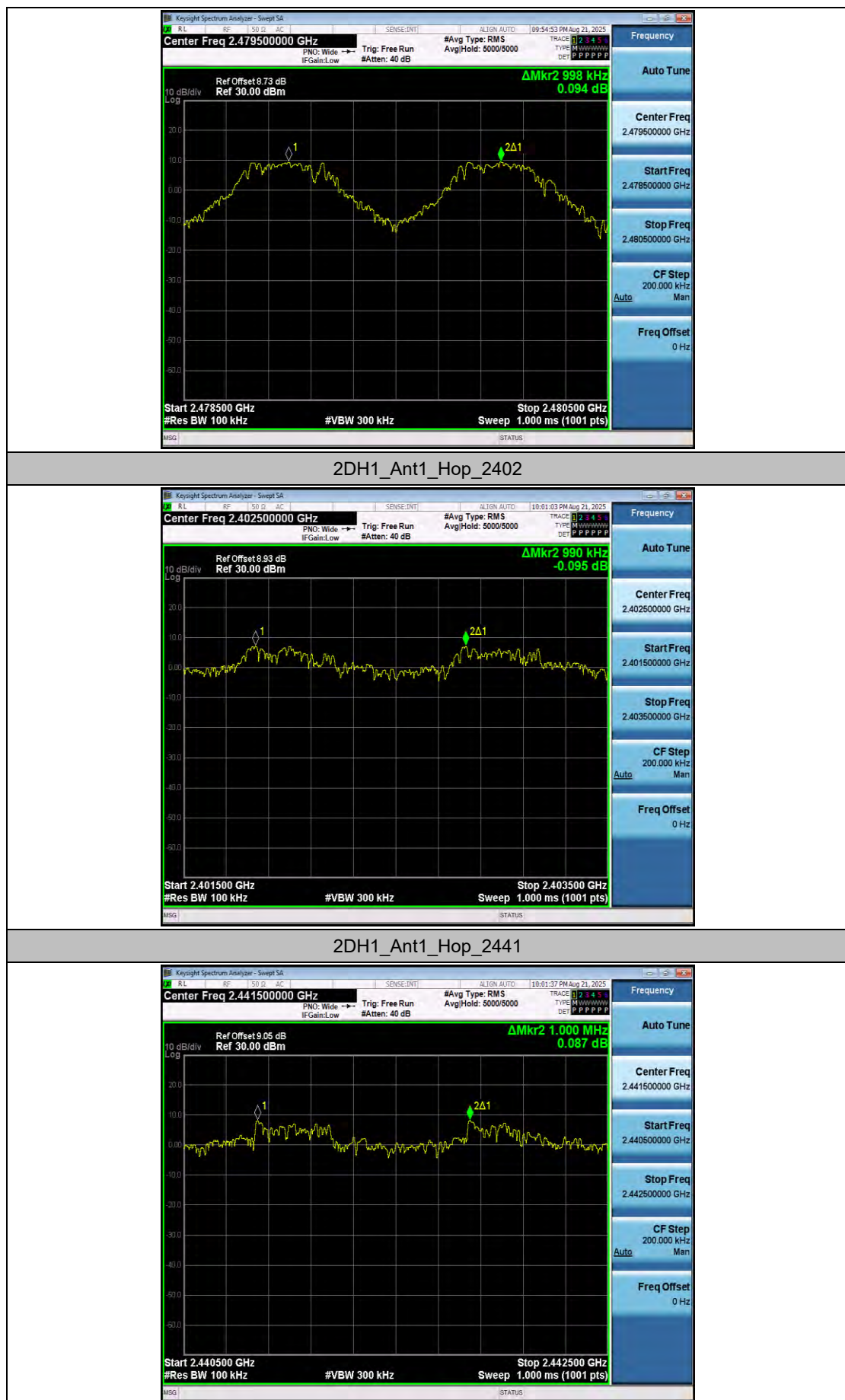
Appendix A.4: Carrier frequency separation

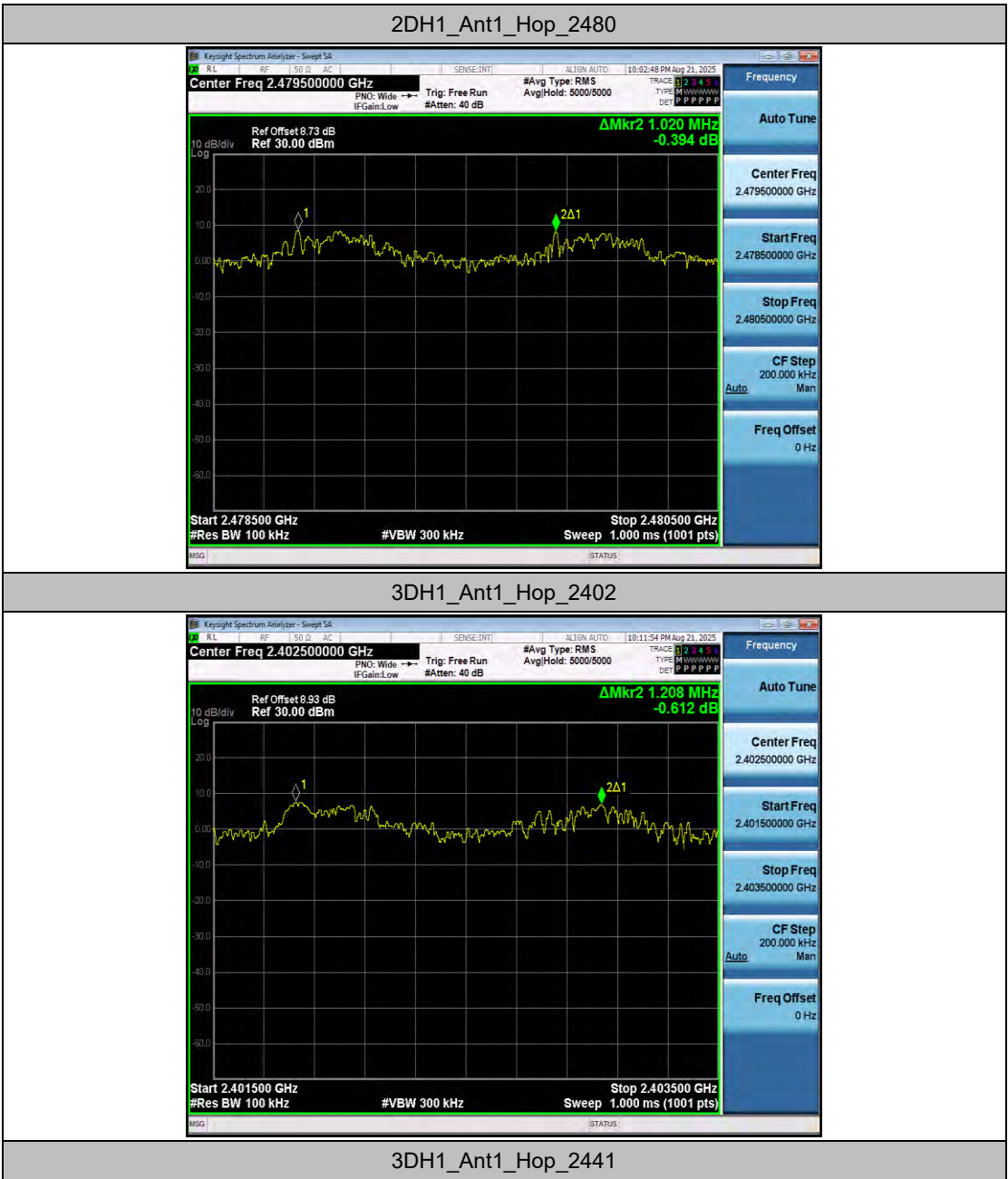
Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.848	≥ 0.578	PASS
		Hop_2441	0.858	≥ 0.578	PASS
		Hop_2480	0.998	≥ 0.867	PASS
2DH1	Ant1	Hop_2402	0.99	≥ 0.836	PASS
		Hop_2441	1	≥ 0.836	PASS
		Hop_2480	1.02	≥ 0.836	PASS
3DH1	Ant1	Hop_2402	1.208	≥ 0.836	PASS
		Hop_2441	1.016	≥ 0.836	PASS
		Hop_2480	0.98	≥ 0.836	PASS

Test Graphs









3DH1_Ant1_Hop_2480

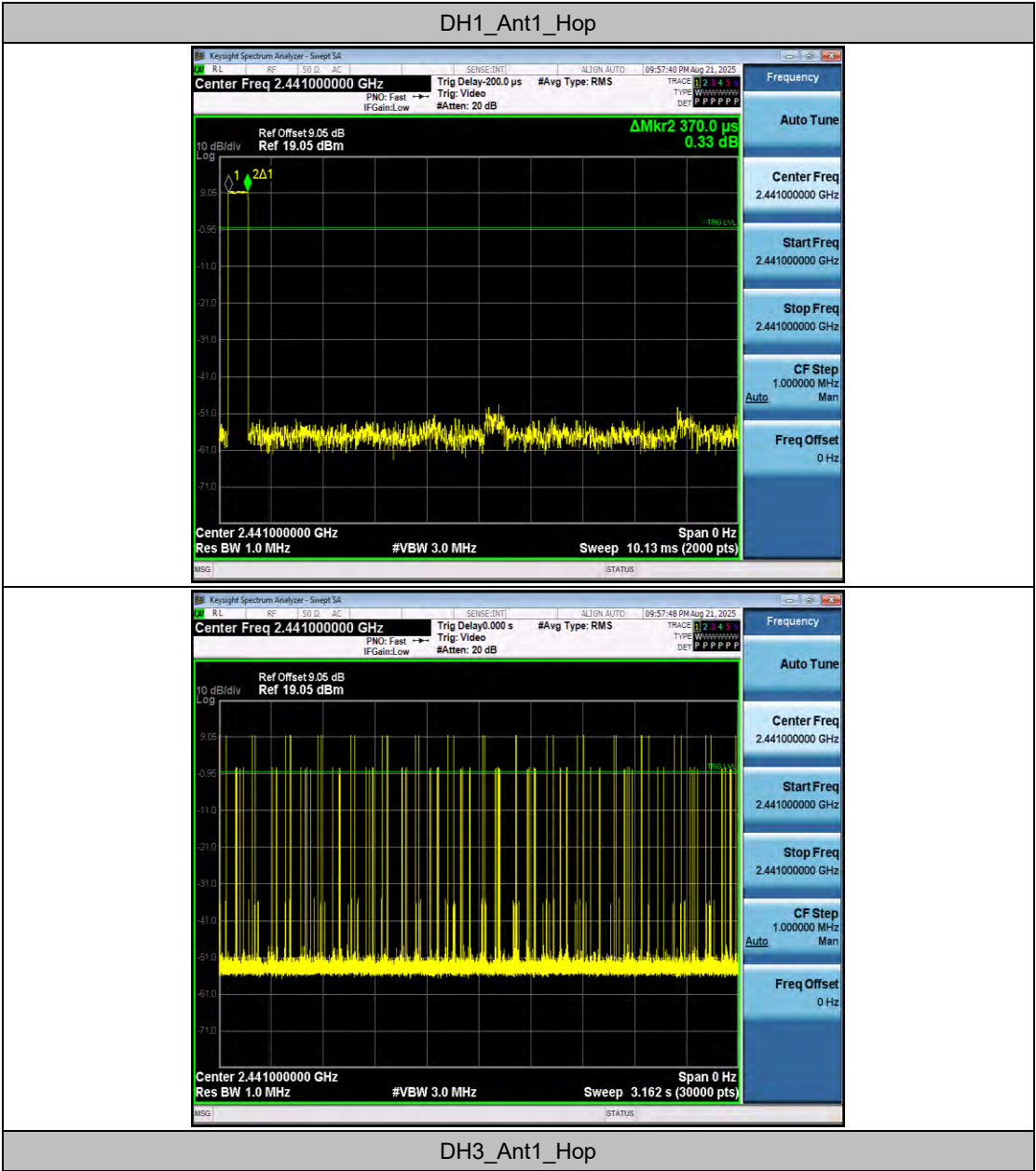


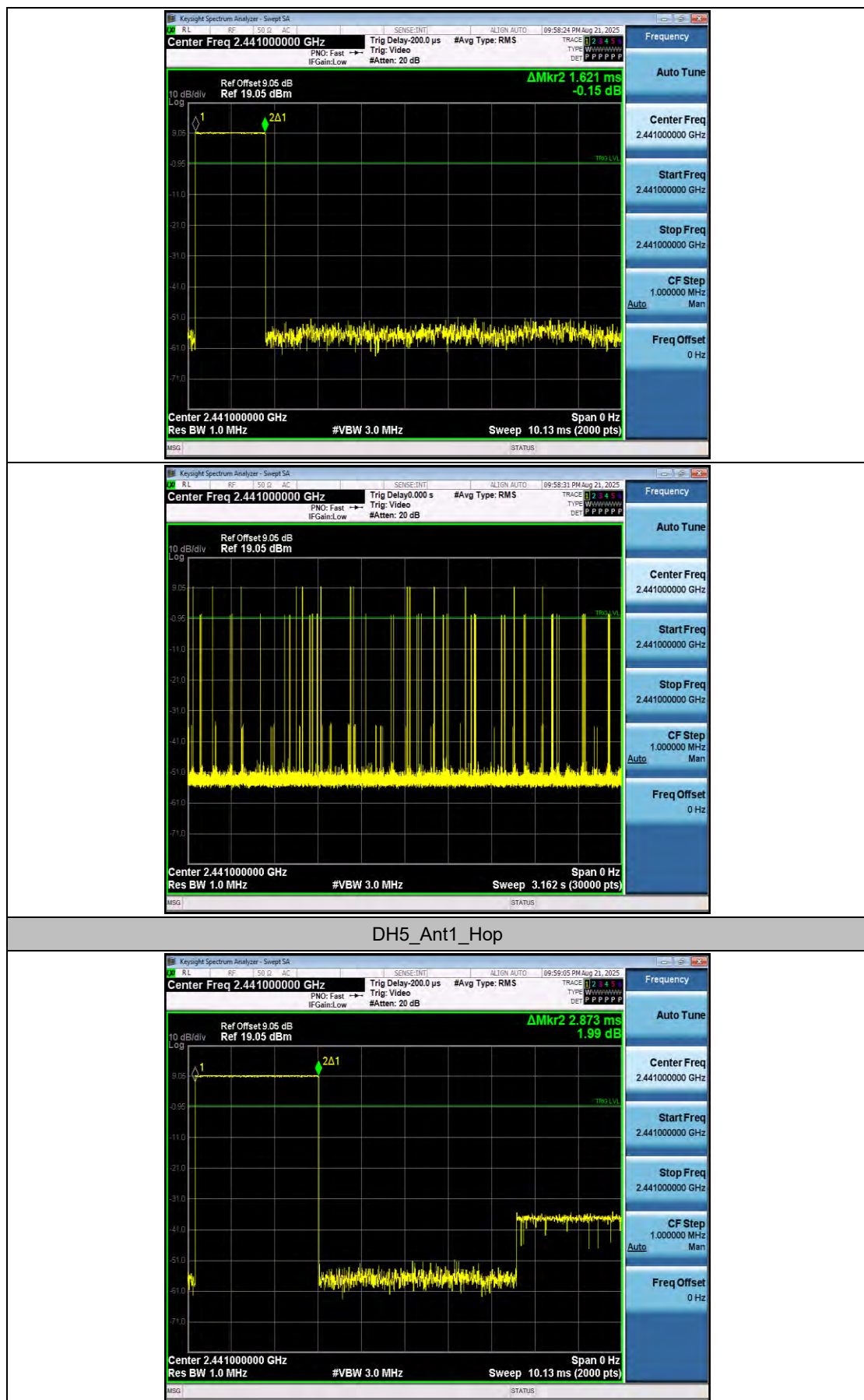
Appendix A.5: Time of occupancy

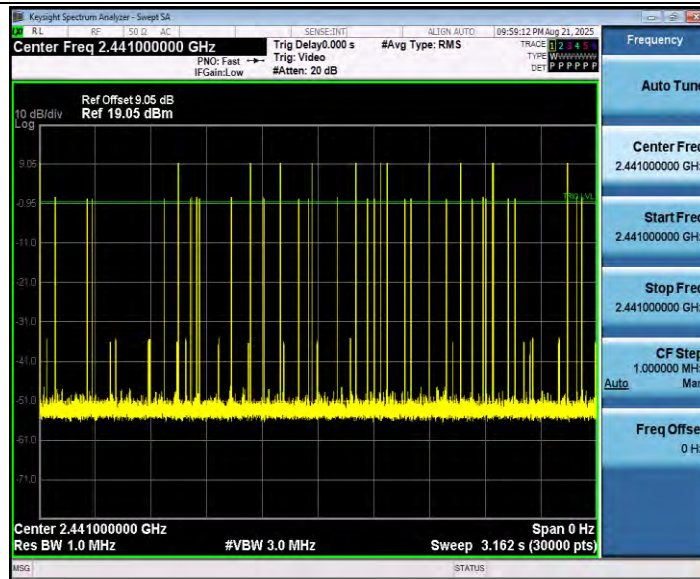
Test Result

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	130	0.373	≤0.4	PASS
2DH1	Ant1	Hop	0.380	330	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.631	140	0.228	≤0.4	PASS
2DH5	Ant1	Hop	2.873	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.380	330	0.125	≤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

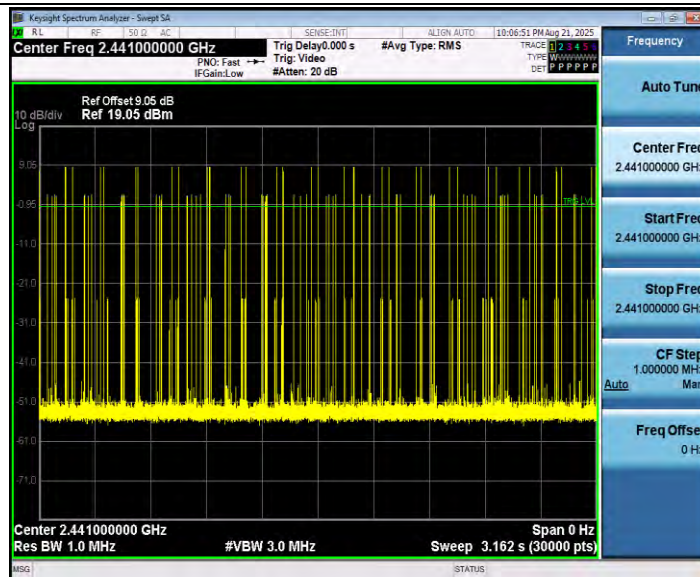
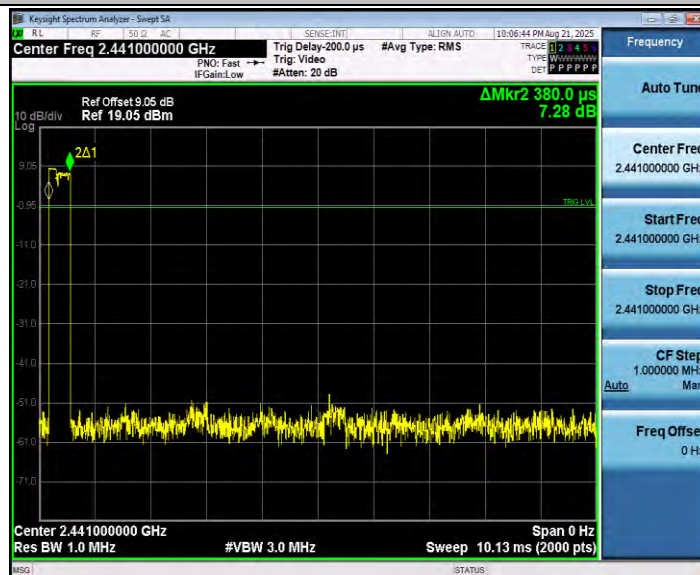
Test Graphs



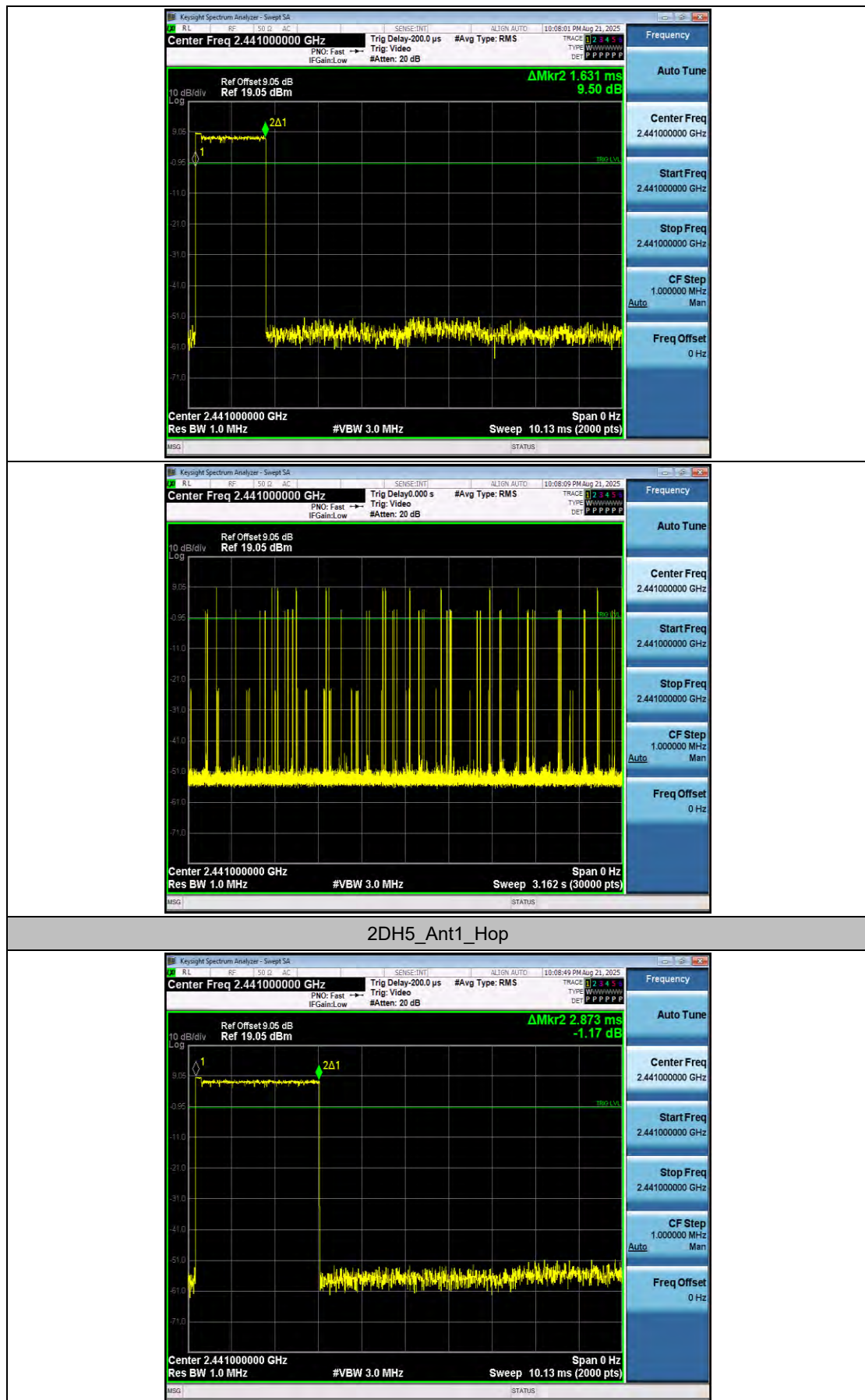


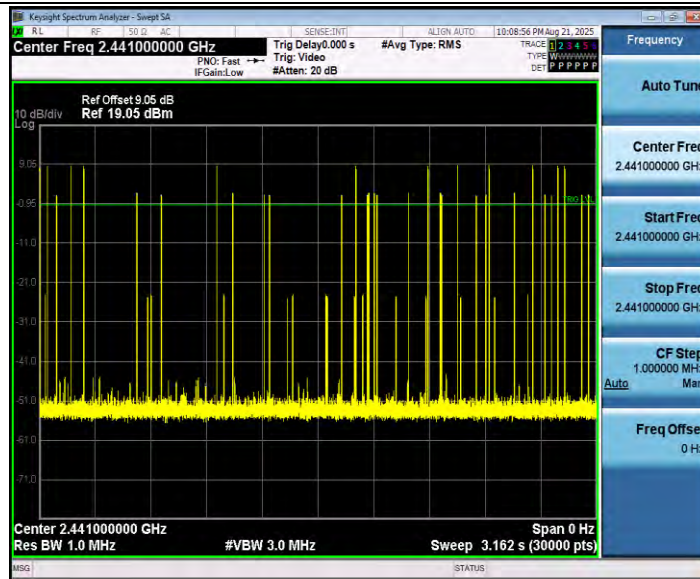


2DH1_Ant1_Hop

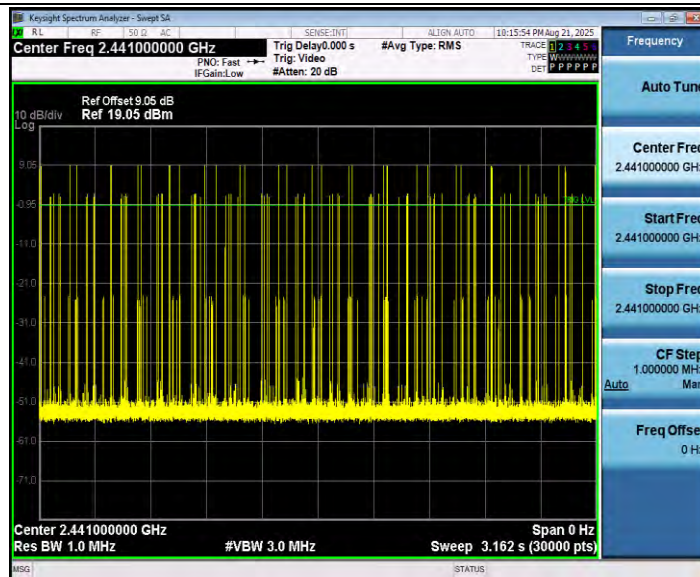
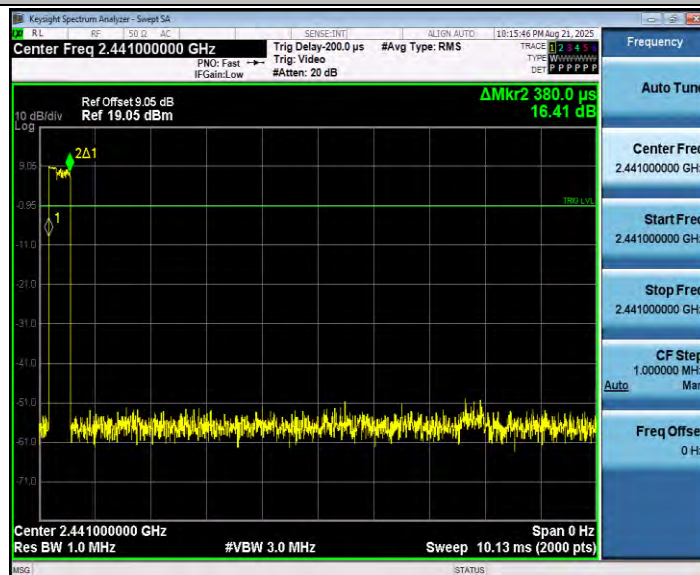


2DH3_Ant1_Hop

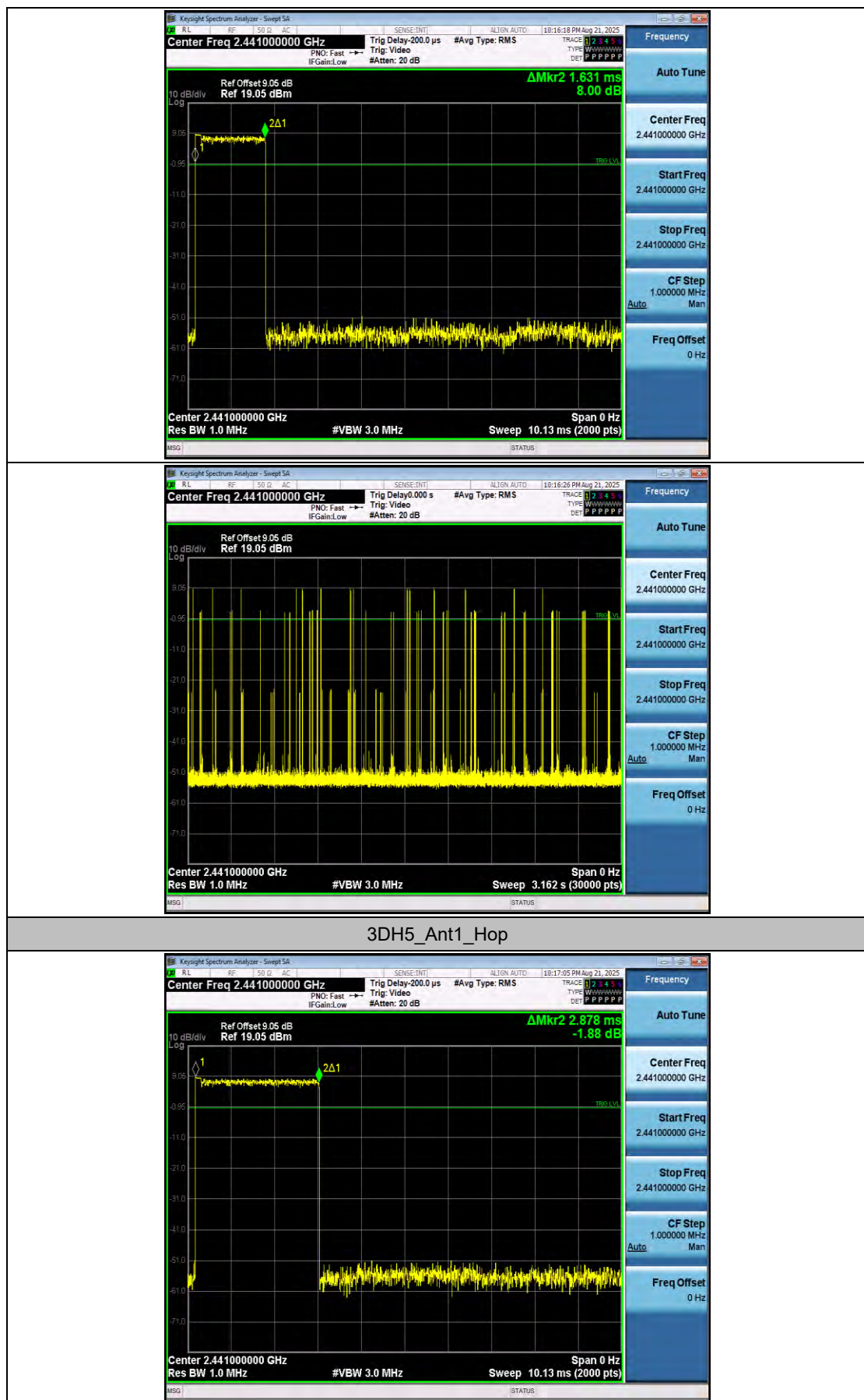


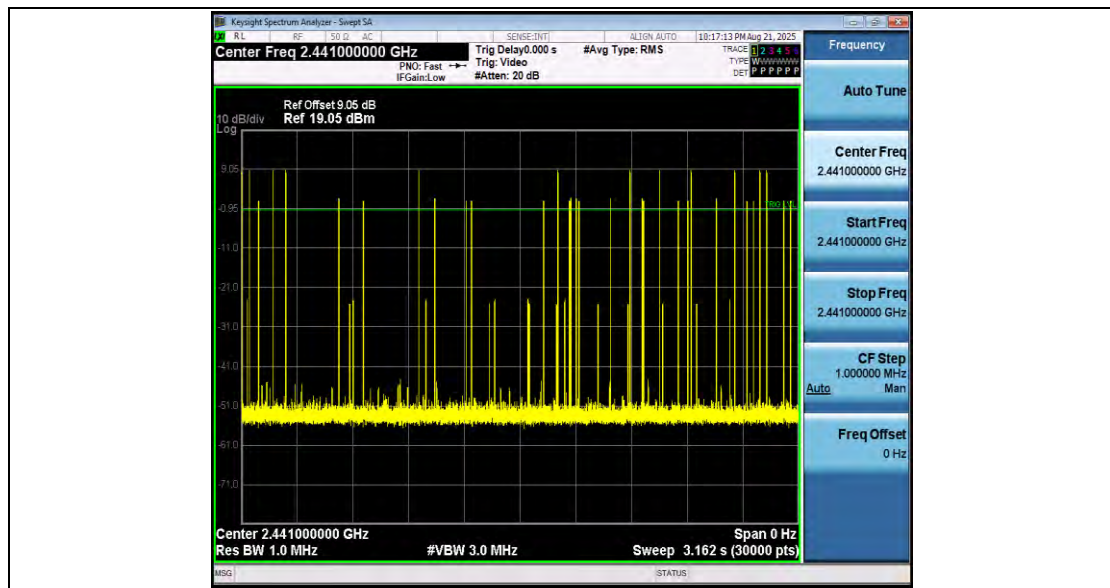


3DH1_Ant1_Hop



3DH3_Ant1_Hop



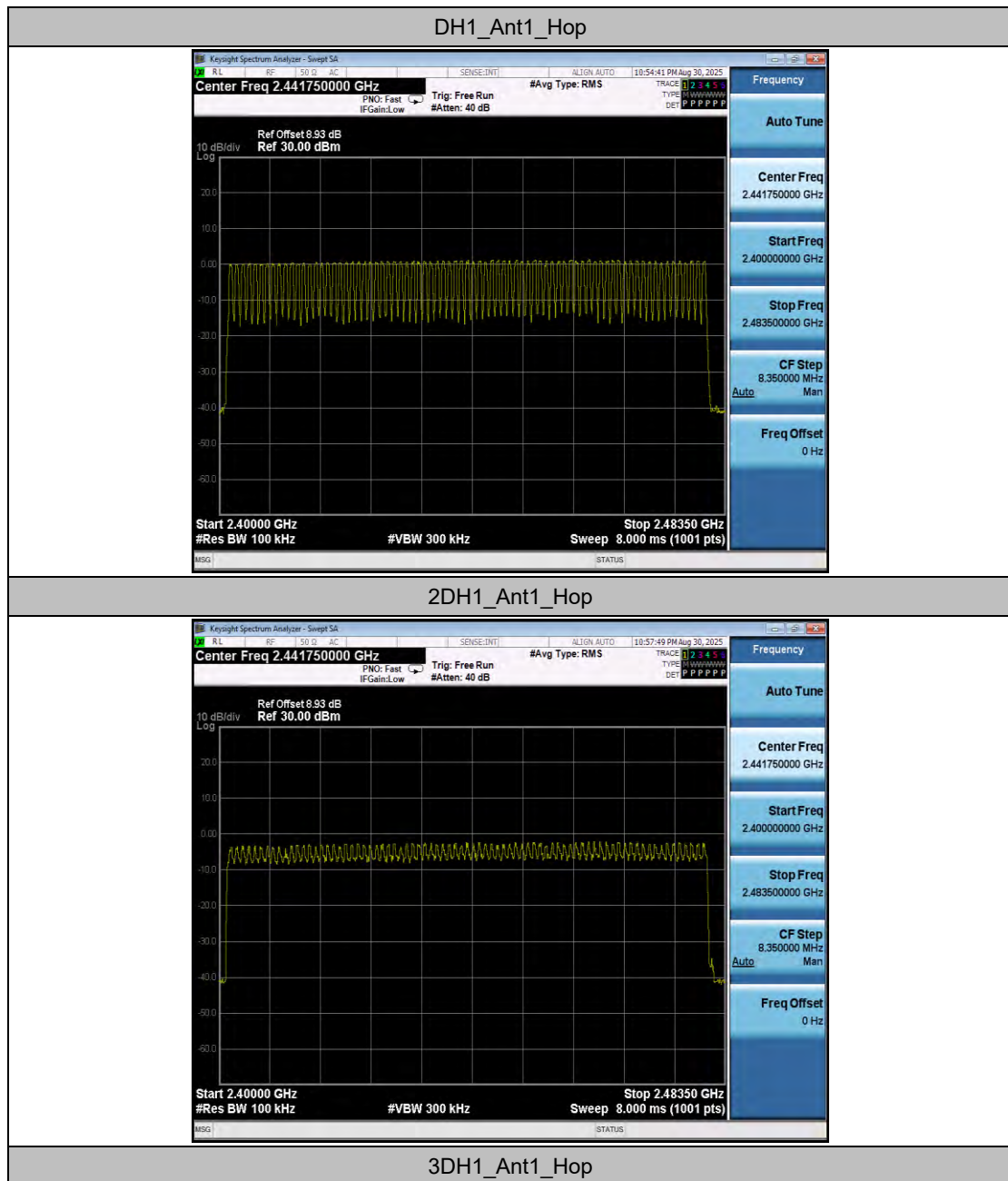


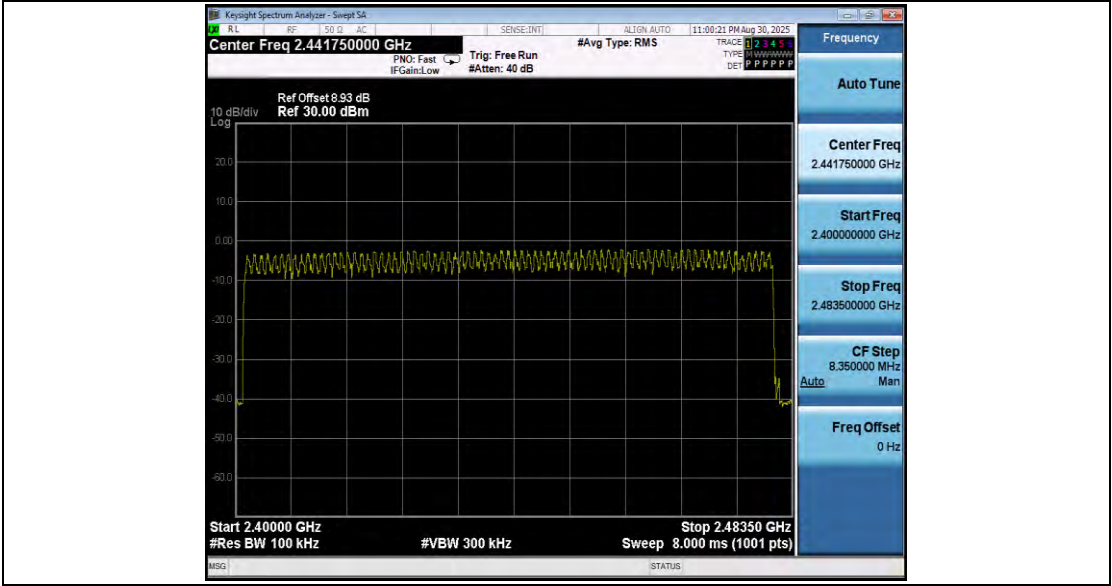
Appendix A.6: Number of hopping channels

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



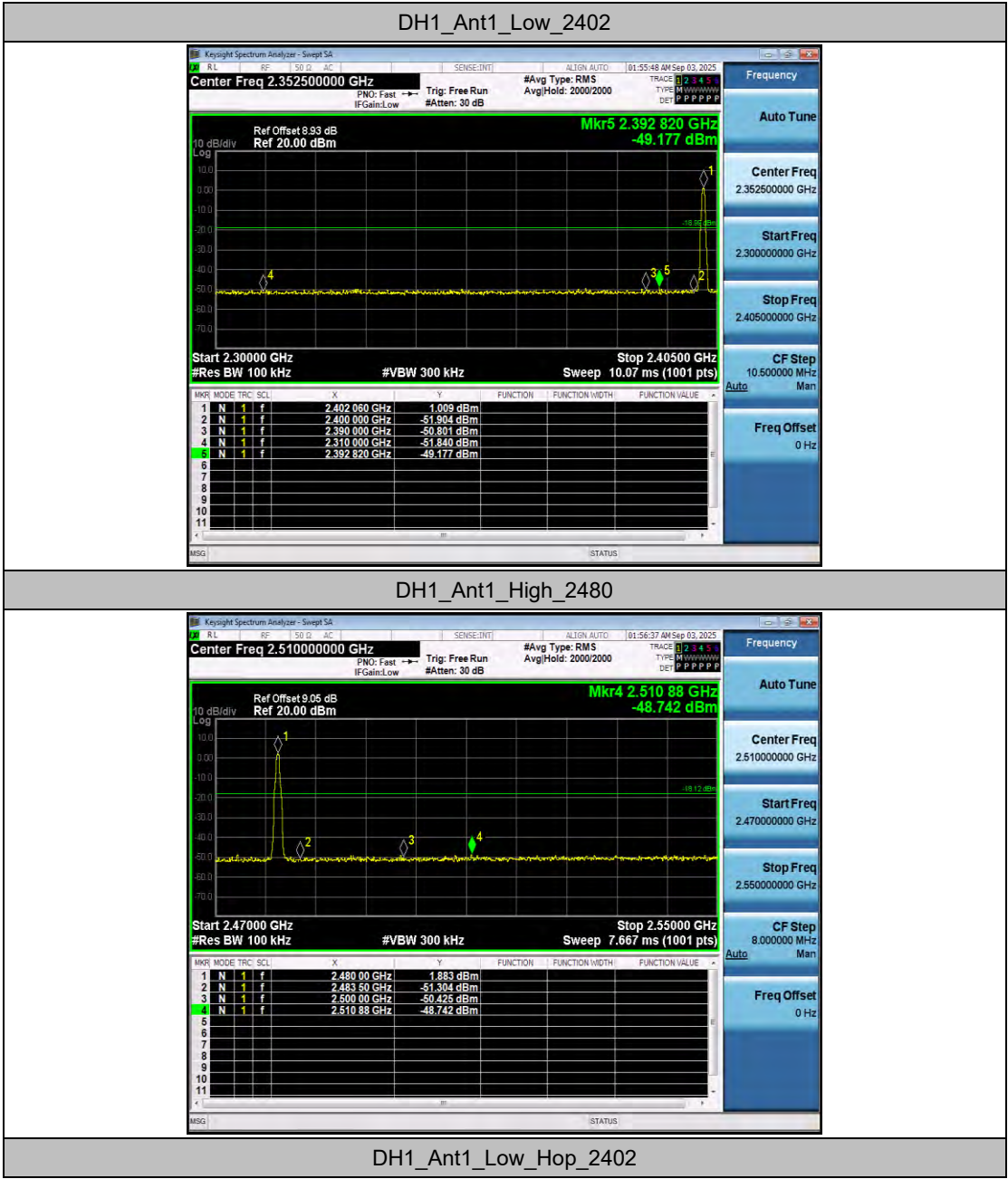


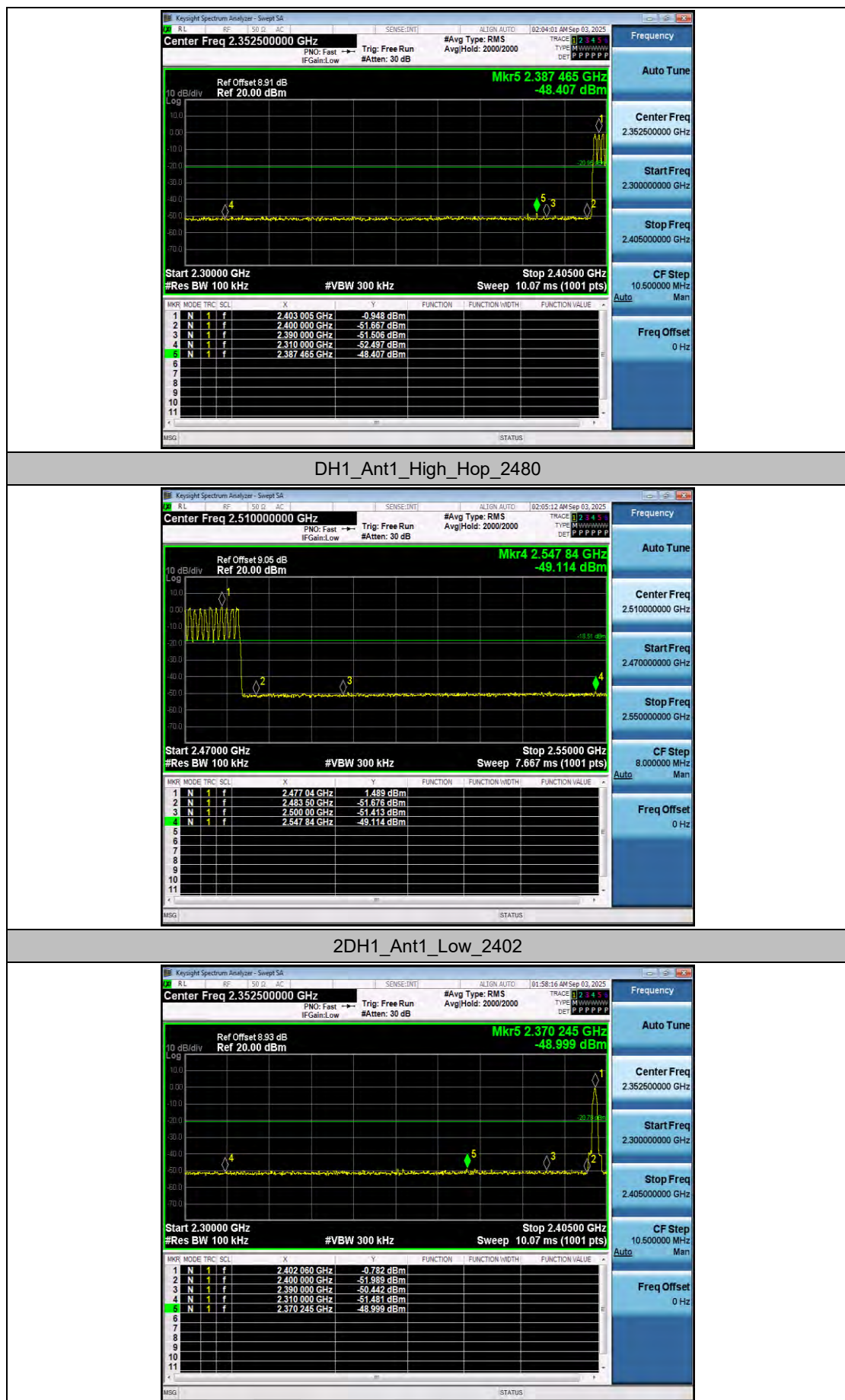
Appendix A.7: Band edge measurements

Test Result

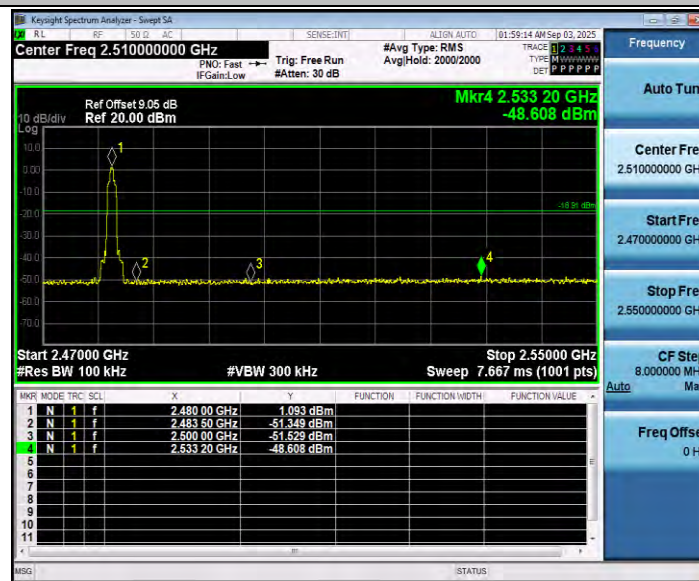
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	1.01	-49.18	≤ -18.99	PASS
		High	2480	1.88	-48.74	≤ -18.12	PASS
		Low	Hop_2402	-0.95	-48.41	≤ -20.95	PASS
		High	Hop_2480	1.49	-49.11	≤ -18.51	PASS
2DH1	Ant1	Low	2402	-0.78	-49	≤ -20.78	PASS
		High	2480	1.09	-48.61	≤ -18.91	PASS
		Low	Hop_2402	-2.38	-49.44	≤ -22.38	PASS
		High	Hop_2480	0.47	-48.46	≤ -19.53	PASS
3DH1	Ant1	Low	2402	-1.02	-49.14	≤ -21.02	PASS
		High	2480	0.86	-48.62	≤ -19.14	PASS
		Low	Hop_2402	-1.30	-48.98	≤ -21.3	PASS
		High	Hop_2480	0.83	-48.84	≤ -19.17	PASS

Test Graphs

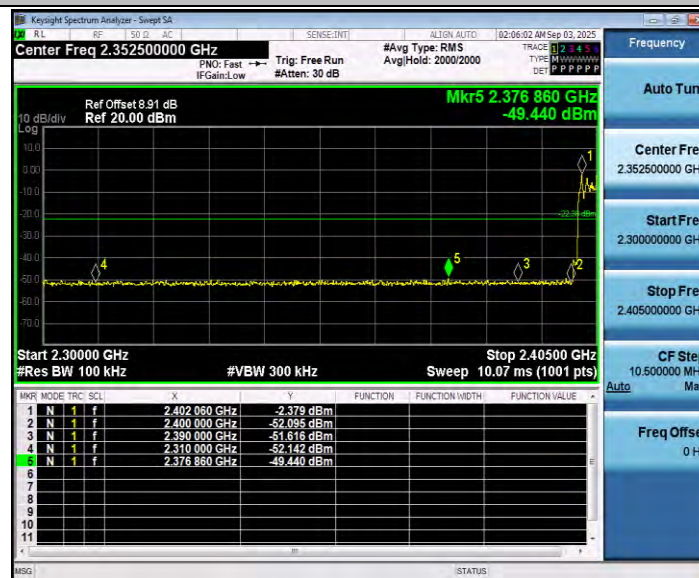




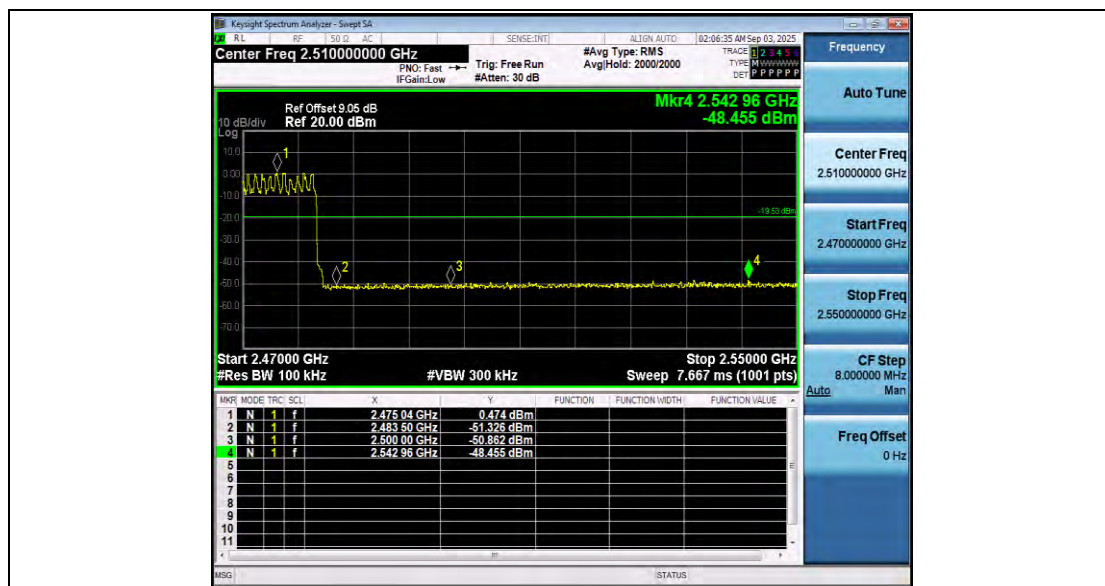
2DH1_Ant1_High_2480



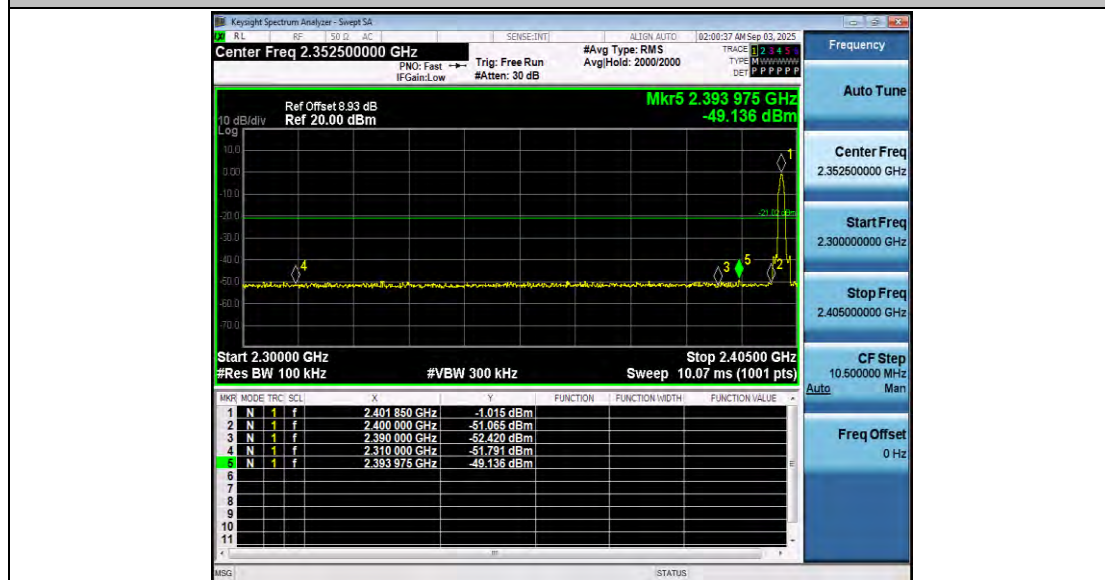
2DH1_Ant1_Low_Hop_2402



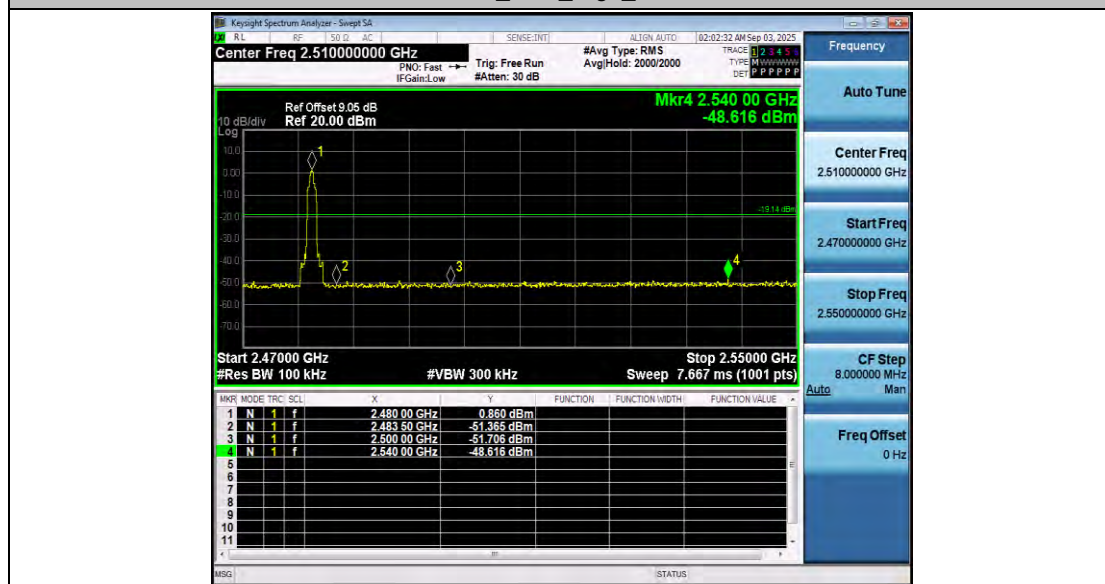
2DH1_Ant1_High_Hop_2480



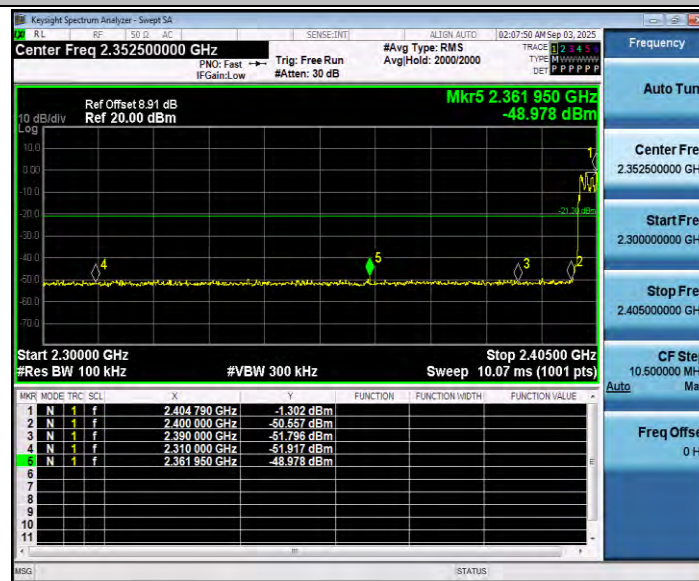
3DH1_Ant1_Low_2402



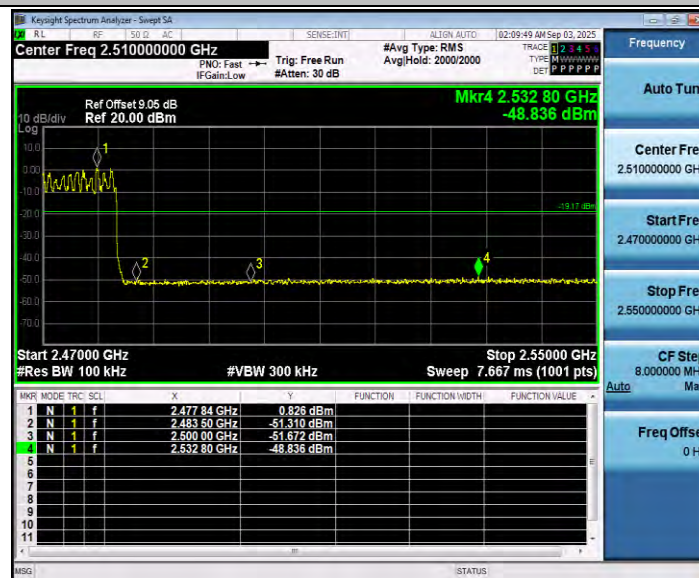
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

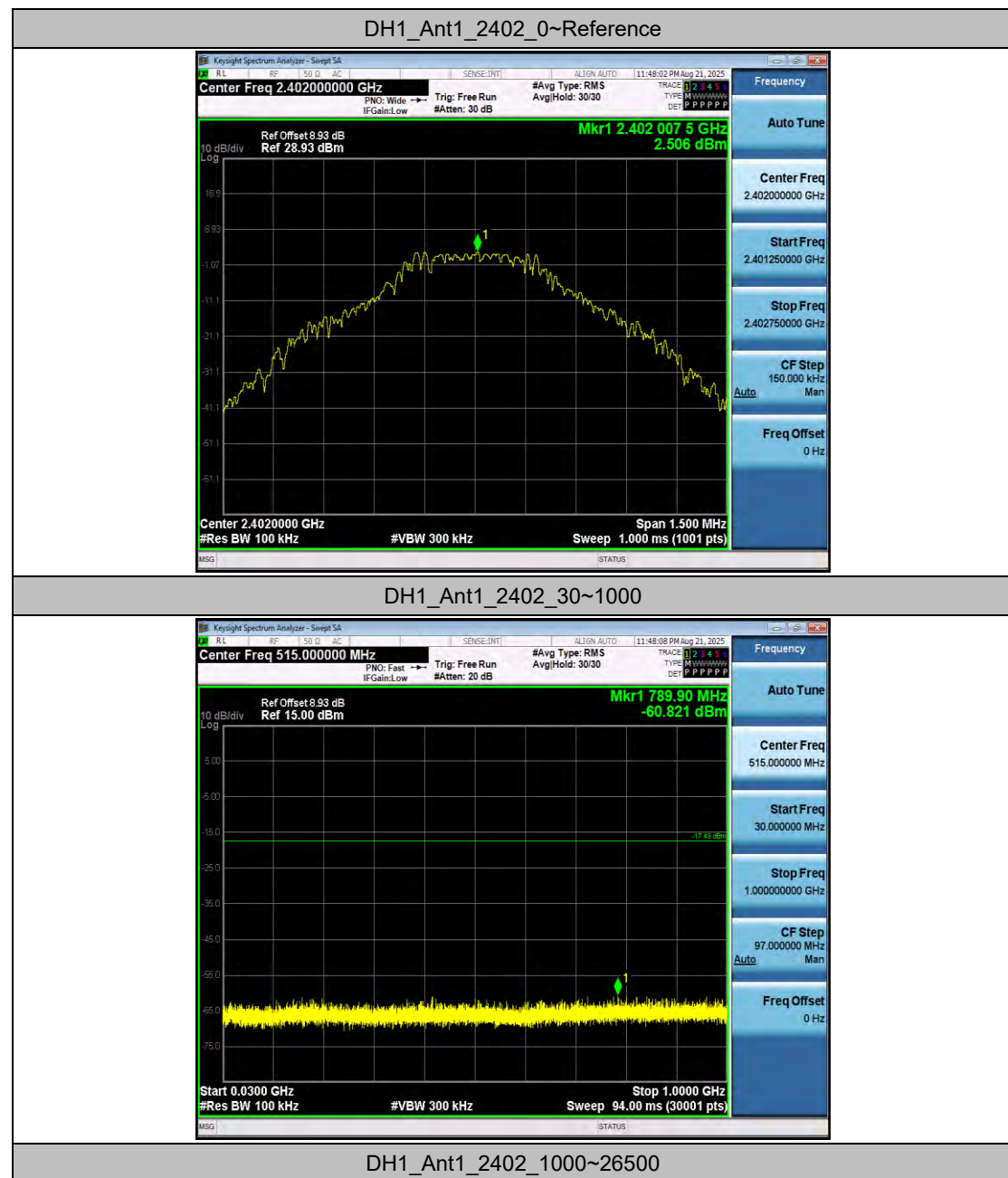


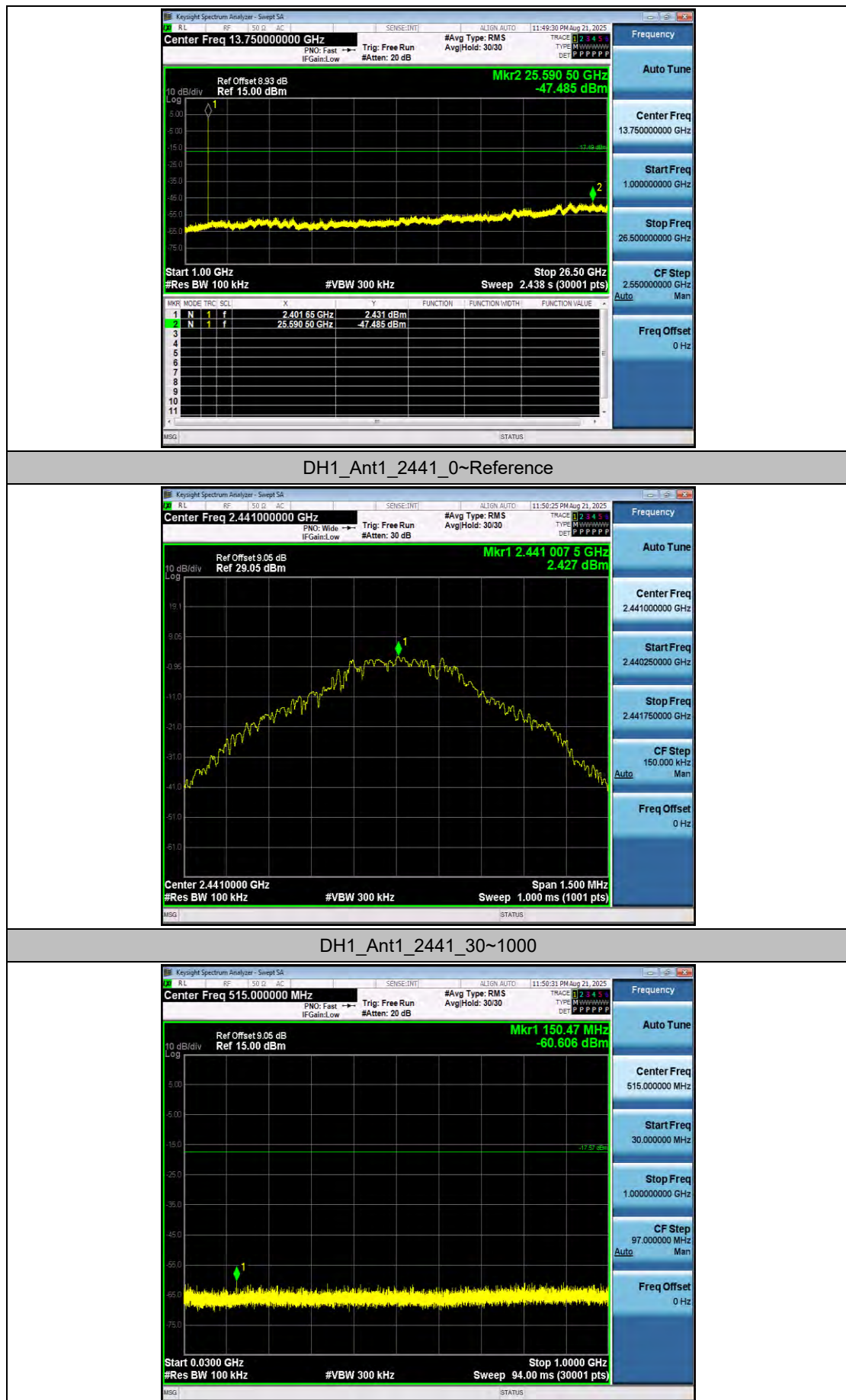
Appendix A.8: Conducted Spurious Emission

Test Result

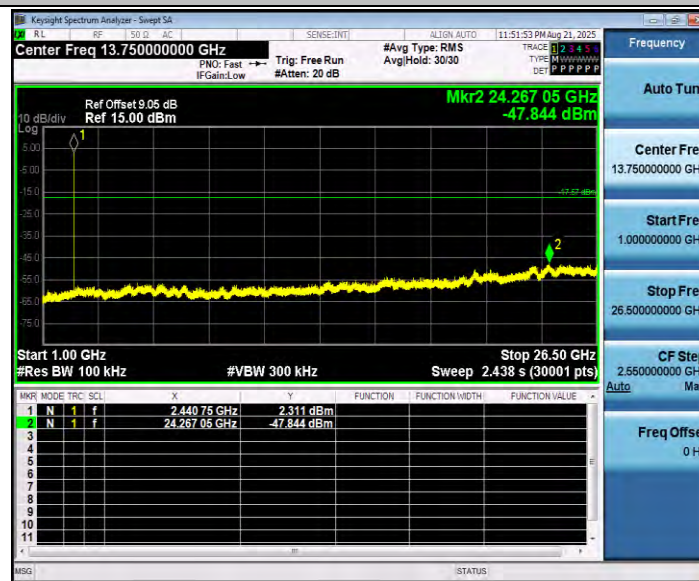
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-60.82	≤-17.49	PASS
			1000~26500	2.51	-47.49	≤-17.49	PASS
		2441	Reference	2.43	2.43	---	PASS
			30~1000	2.43	-60.61	≤-17.57	PASS
			1000~26500	2.43	-47.84	≤-17.57	PASS
		2480	Reference	2.93	2.93	---	PASS
			30~1000	2.93	-60.43	≤-17.07	PASS
			1000~26500	2.93	-47.49	≤-17.07	PASS
2DH1	Ant1	2402	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-60.36	≤-21.34	PASS
			1000~26500	-1.34	-47.09	≤-21.34	PASS
		2441	Reference	2.07	2.07	---	PASS
			30~1000	2.07	-60.14	≤-17.93	PASS
			1000~26500	2.07	-47.99	≤-17.93	PASS
		2480	Reference	3.05	3.05	---	PASS
			30~1000	3.05	-60.73	≤-16.95	PASS
			1000~26500	3.05	-47.96	≤-16.95	PASS
3DH1	Ant1	2402	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-61.22	≤-20.65	PASS
			1000~26500	-0.65	-48.29	≤-20.65	PASS
		2441	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-60.23	≤-18.48	PASS
			1000~26500	1.52	-47.47	≤-18.48	PASS
		2480	Reference	2.40	2.40	---	PASS
			30~1000	2.40	-60.48	≤-17.6	PASS
			1000~26500	2.40	-47.85	≤-17.6	PASS

Test Graphs





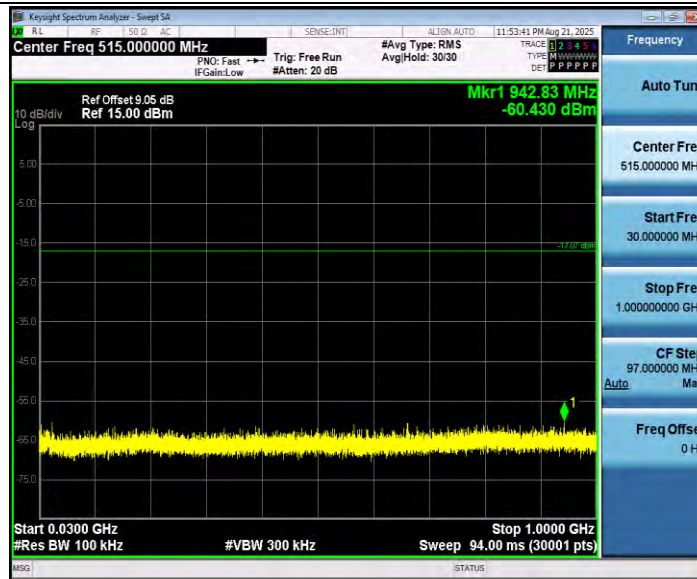
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

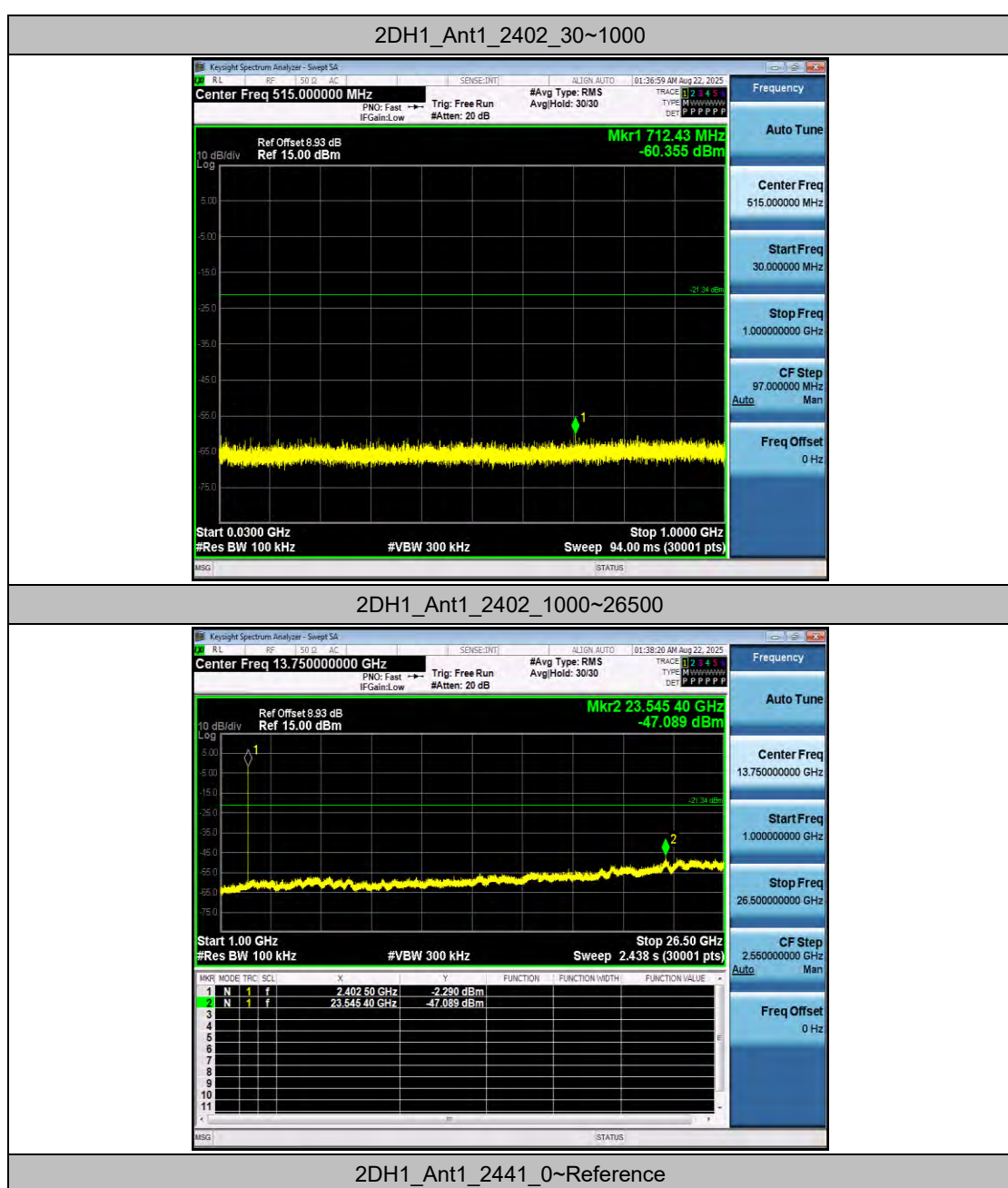


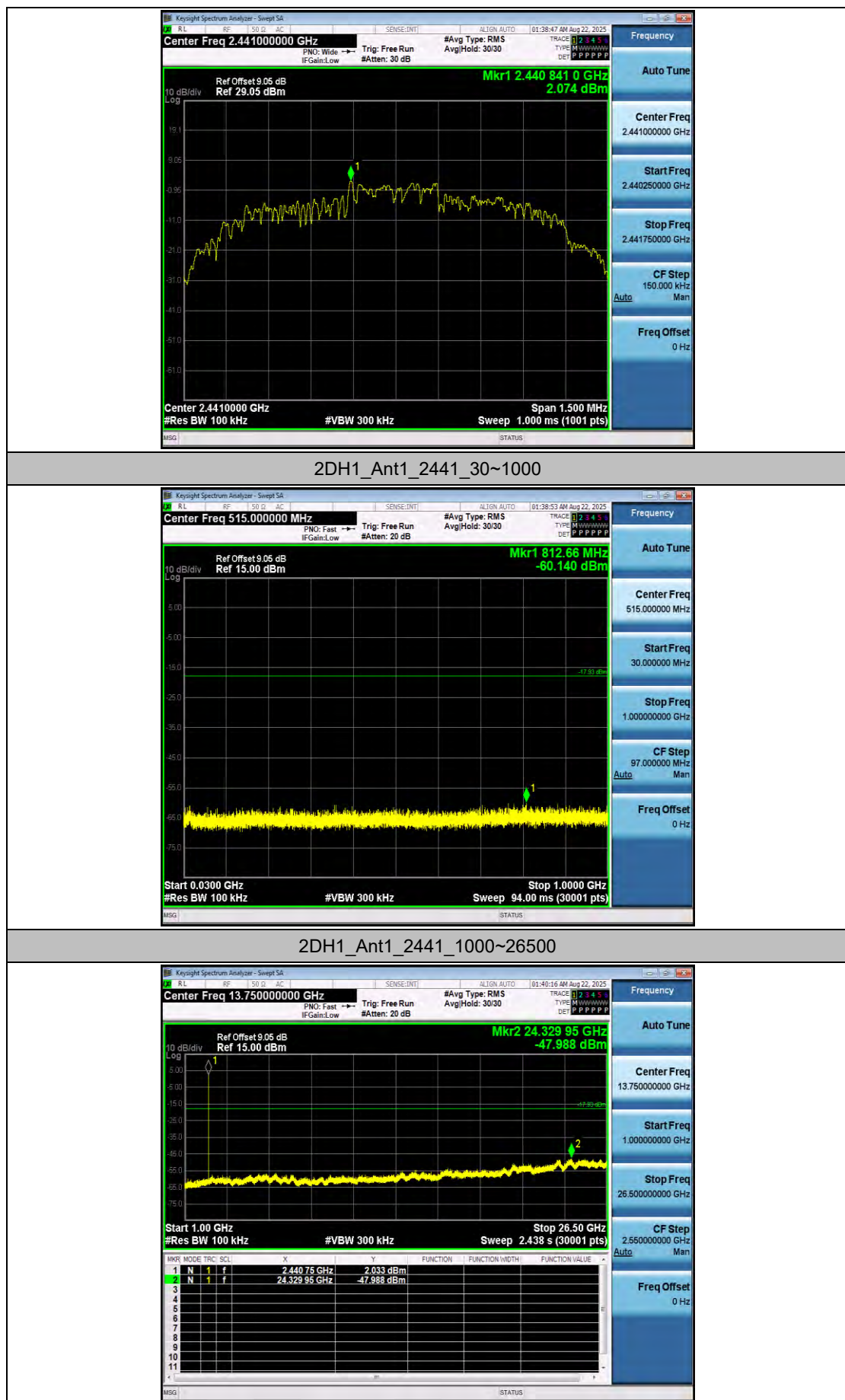
DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference



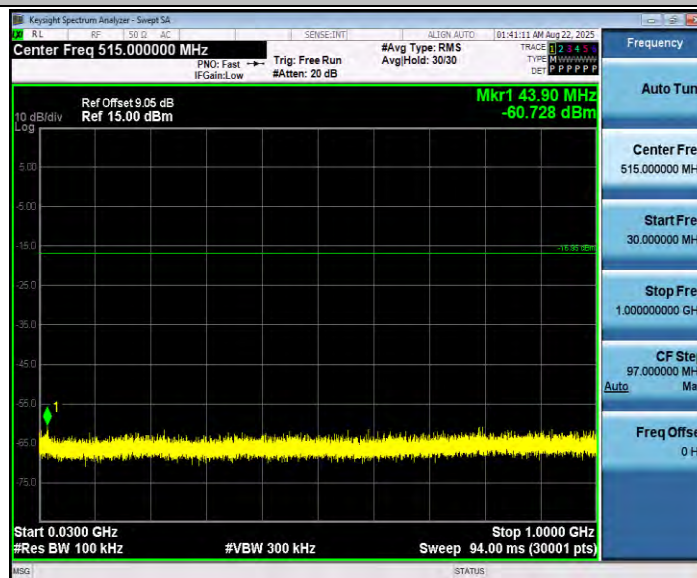




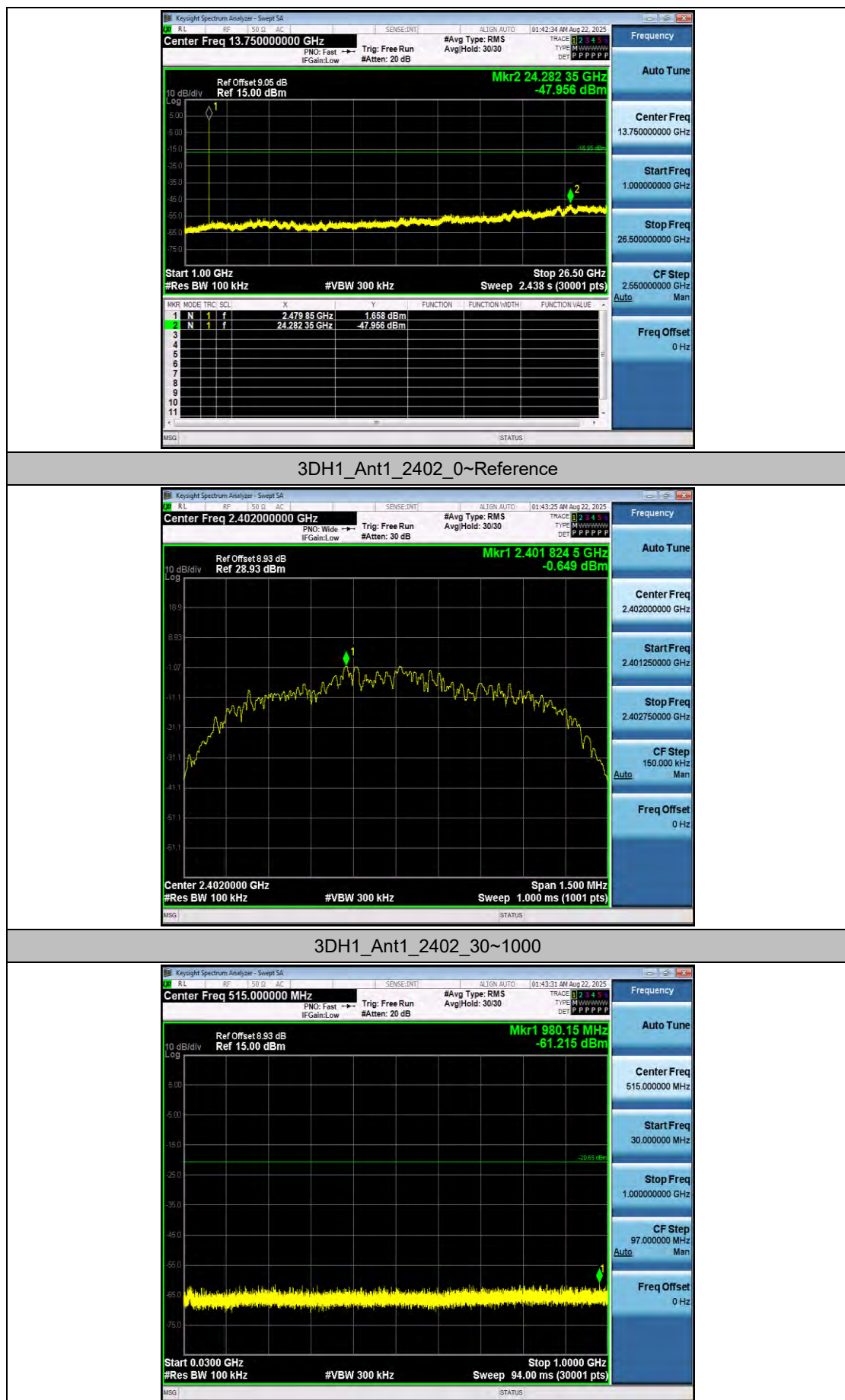
2DH1_Ant1_2480_0~Reference

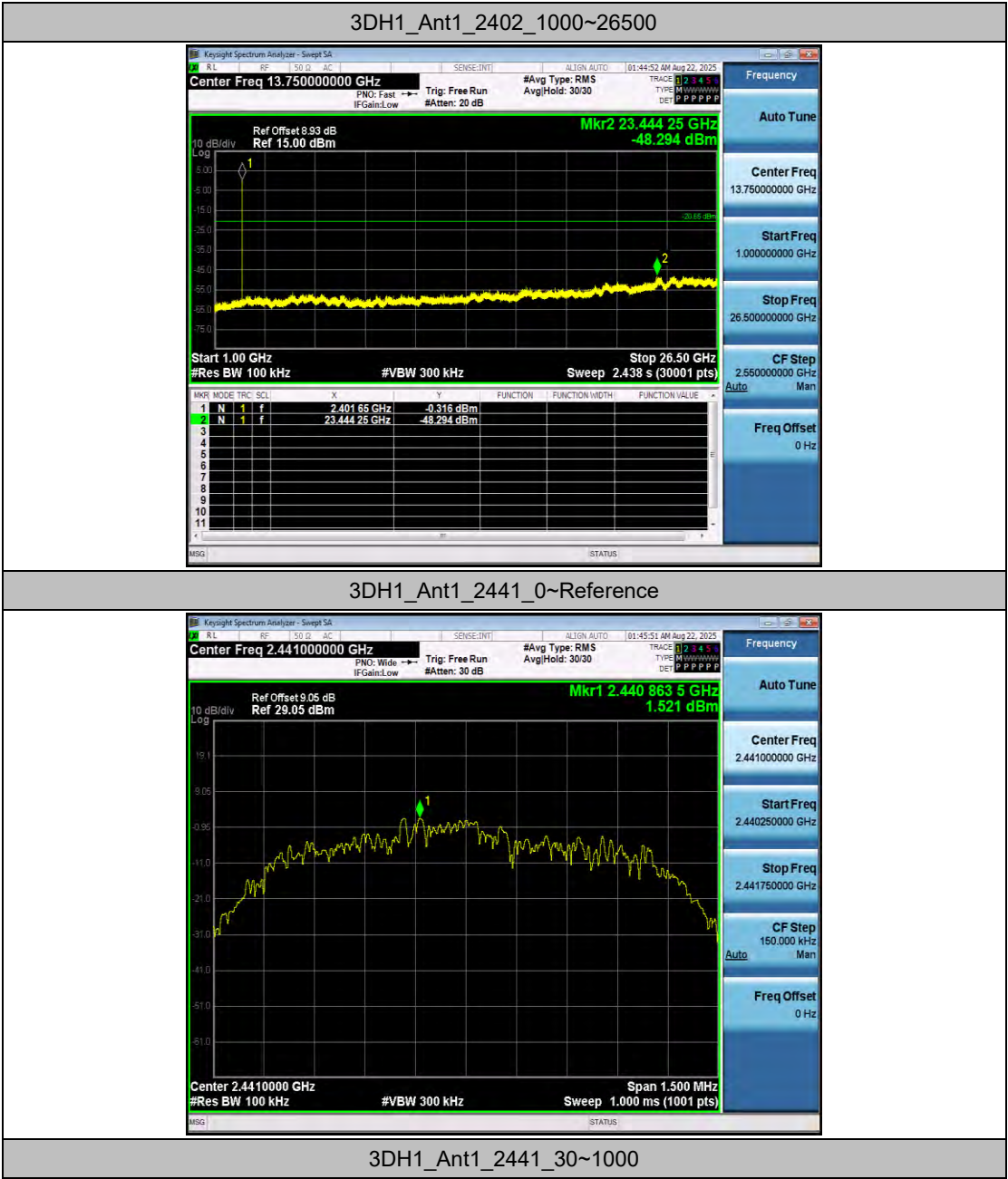


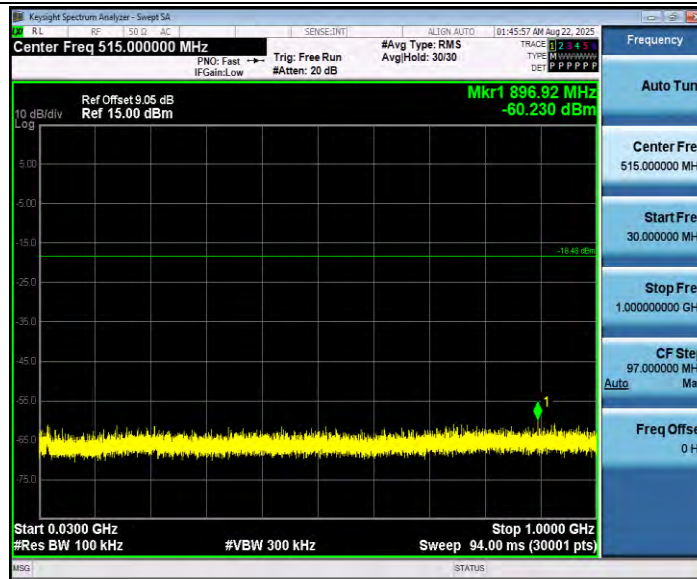
2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500





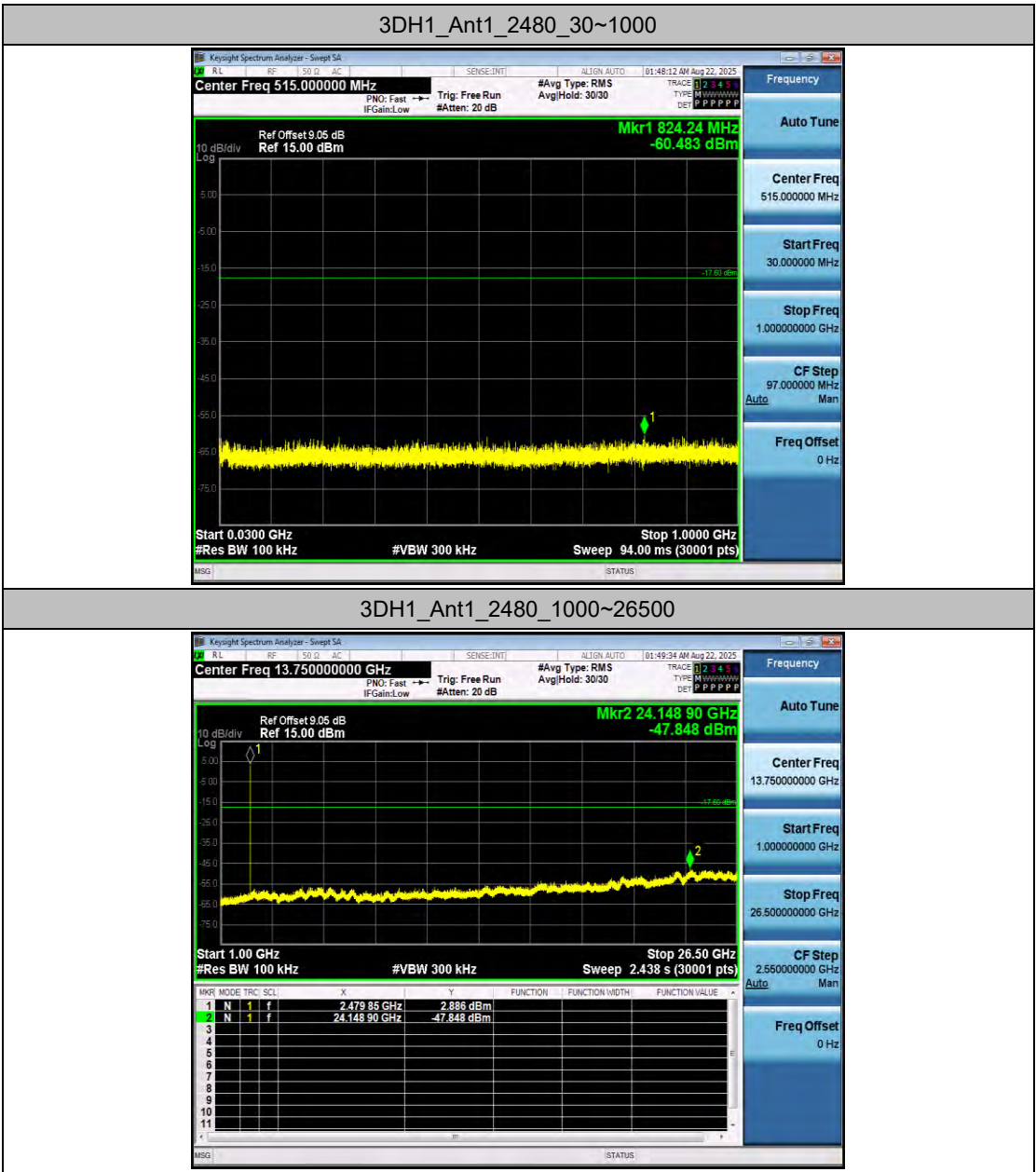


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

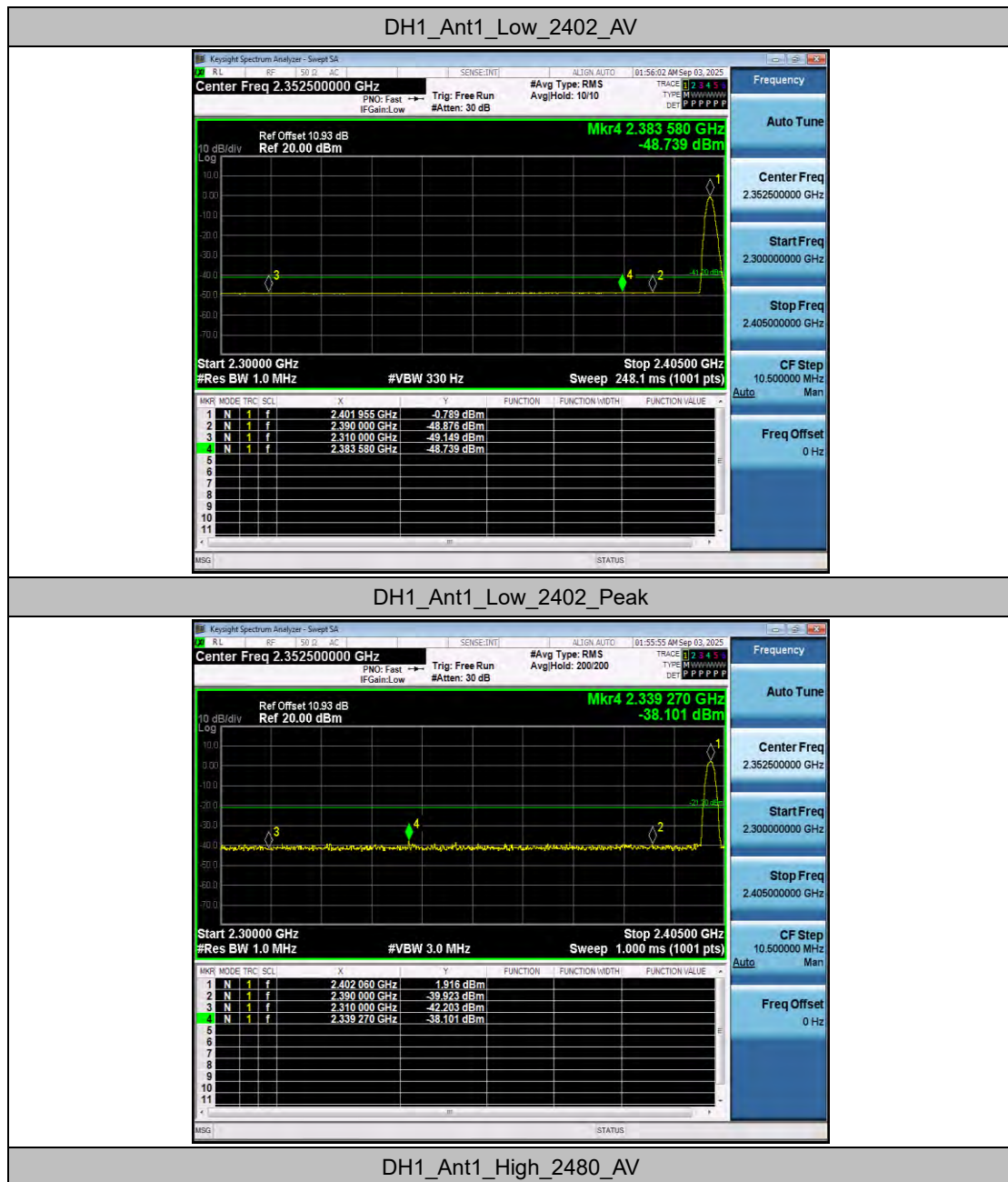
Test Result

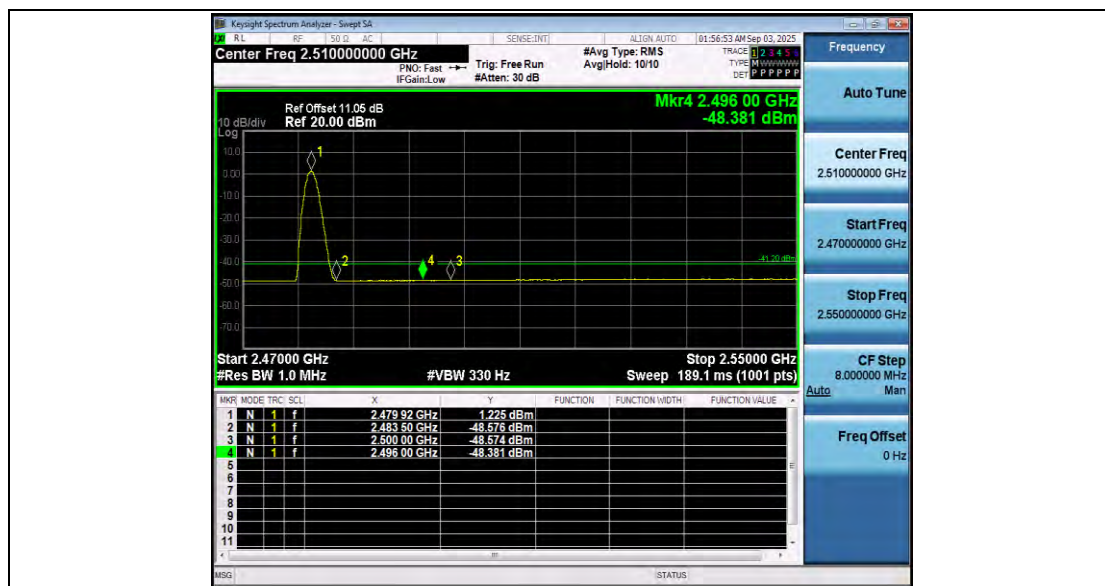
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.15	≤-41.20	46.05	≤54	PASS
				AV	2383.580	-48.74	≤-41.20	46.46	≤54	PASS
				AV	2390.000	-48.88	≤-41.20	46.32	≤54	PASS
				Peak	2310.000	-42.2	≤-21.20	53.00	≤74	PASS
				Peak	2339.270	-38.1	≤-21.20	57.10	≤74	PASS
				Peak	2390.000	-39.92	≤-21.20	55.28	≤74	PASS
		High	2480	AV	2483.500	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2496.000	-48.38	≤-41.20	46.82	≤54	PASS
				AV	2500.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2483.500	-40.02	≤-21.20	55.18	≤74	PASS
				Peak	2488.480	-38.39	≤-21.20	56.81	≤74	PASS
				Peak	2500.000	-40.06	≤-21.20	55.14	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2374.655	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2390.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2310.000	-40.97	≤-21.20	54.23	≤74	PASS
				Peak	2321.105	-38.85	≤-21.20	56.35	≤74	PASS
				Peak	2390.000	-39.9	≤-21.20	55.30	≤74	PASS
		High	2480	AV	2483.500	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2494.080	-48.37	≤-41.20	46.83	≤54	PASS
				AV	2500.000	-48.49	≤-41.20	46.71	≤54	PASS
				Peak	2483.500	-41.23	≤-21.20	53.97	≤74	PASS
				Peak	2496.000	-38.78	≤-21.20	56.42	≤74	PASS
				Peak	2500.000	-40.67	≤-21.20	54.53	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.28	≤-41.20	45.92	≤54	PASS
				AV	2380.325	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2390.000	-49.05	≤-41.20	46.15	≤54	PASS
				Peak	2310.000	-41.72	≤-21.20	53.48	≤74	PASS
				Peak	2379.485	-38.91	≤-21.20	56.29	≤74	PASS
				Peak	2390.000	-41.52	≤-21.20	53.68	≤74	PASS
		High	2480	AV	2483.500	-48.64	≤-41.20	46.56	≤54	PASS
				AV	2497.040	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-40.92	≤-21.20	54.28	≤74	PASS
				Peak	2498.640	-38.71	≤-21.20	56.49	≤74	PASS
				Peak	2500.000	-41.21	≤-21.20	53.99	≤74	PASS

Note:

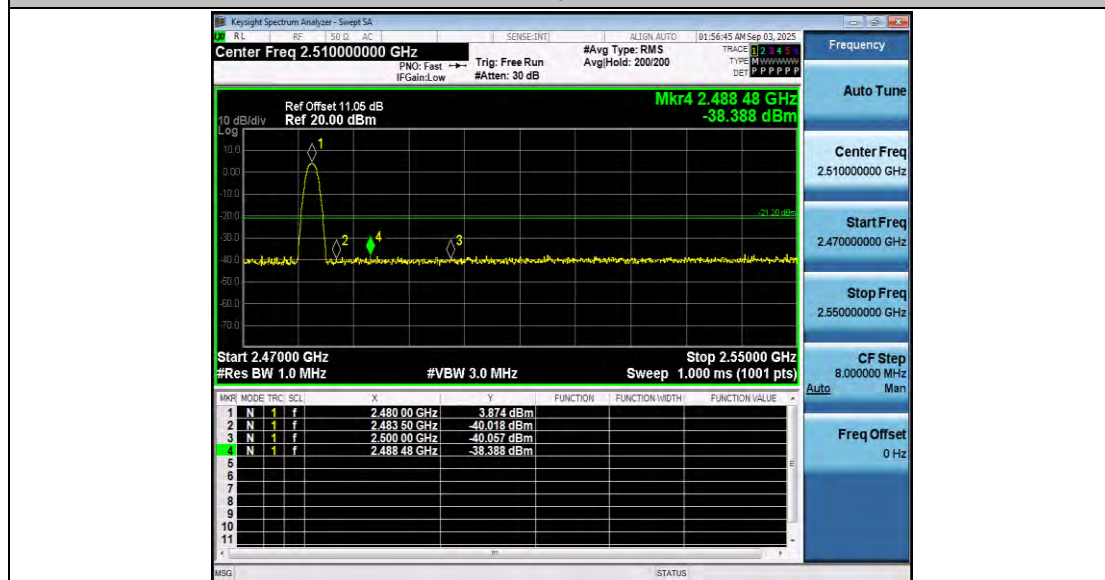
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

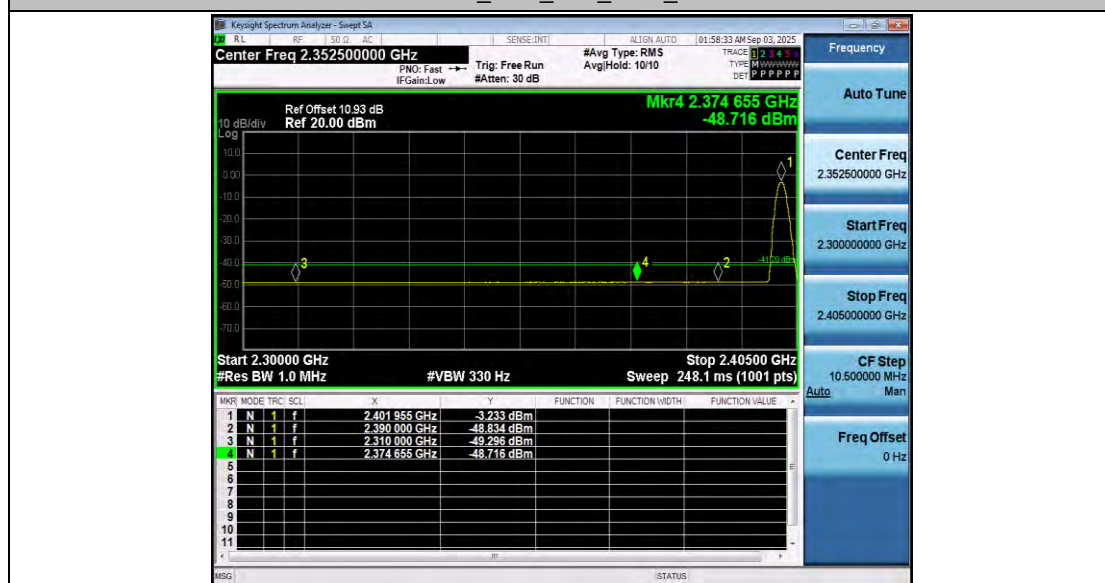




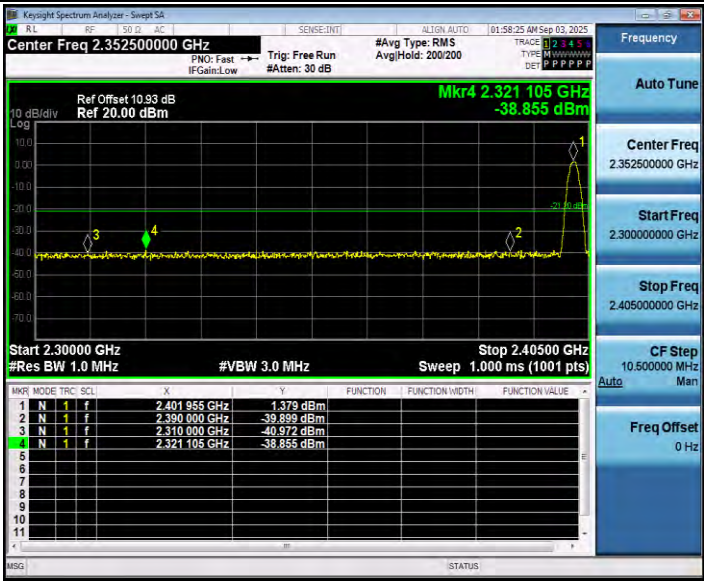
DH1_Ant1_High_2480_Peak



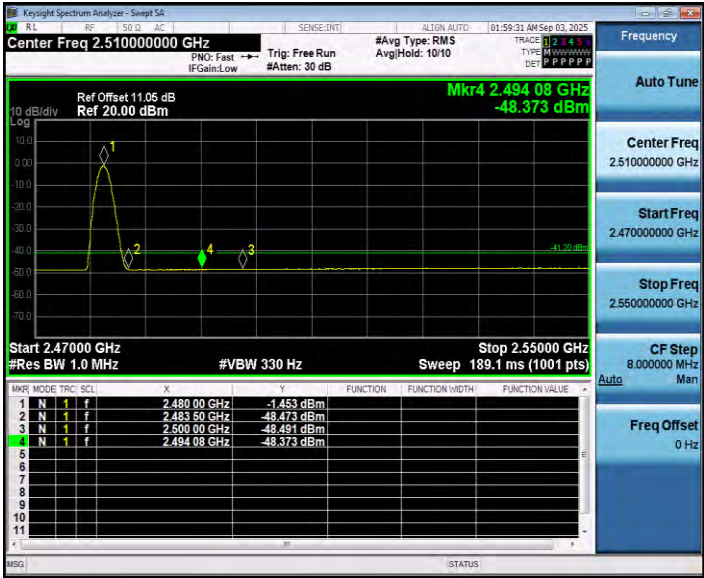
2DH1_Ant1_Low_2402_AV



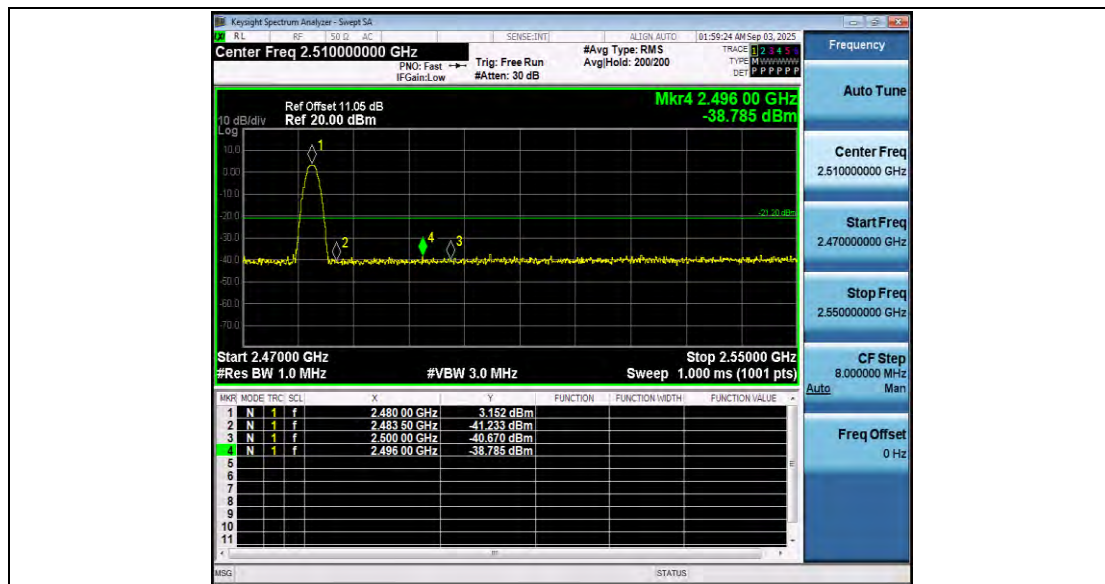
2DH1_Ant1_Low_2402_Peak



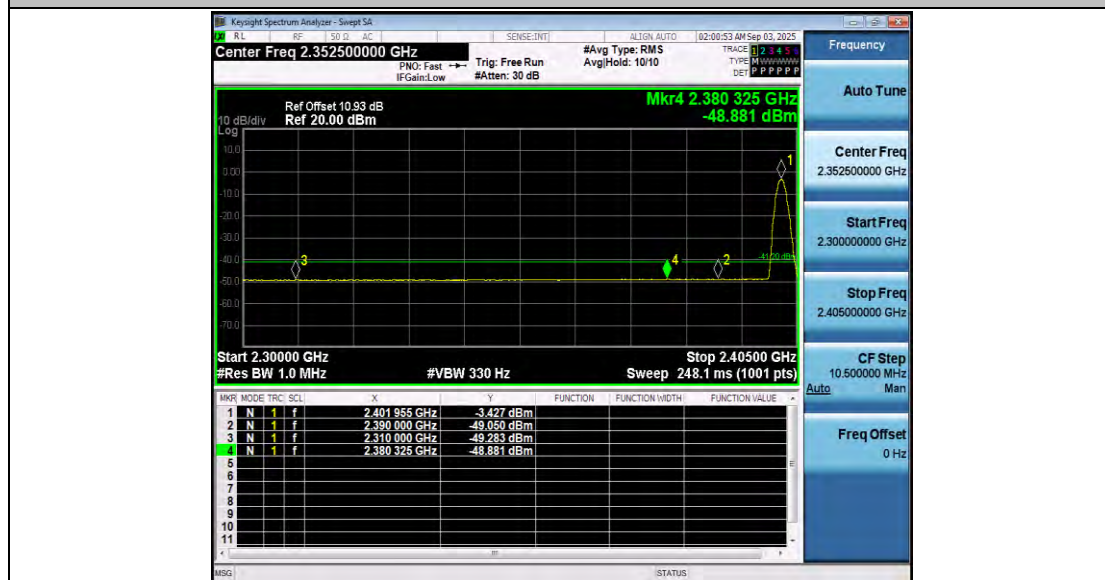
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

