

Case No. : <u>GTS20240118008-1-1</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2024.3.4</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	0.864	2401.553	2402.417	---	---
		2441	0.870	2440.553	2441.423	---	---
		2480	0.873	2479.544	2480.417	---	---
2DH1	Ant1	2402	1.254	2401.361	2402.615	---	---
		2441	1.257	2440.361	2441.618	---	---
		2480	1.242	2479.358	2480.600	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_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	0.81058	2401.5882	2402.3987	---	---
		2441	0.82534	2440.5740	2441.3994	---	---
		2480	0.82403	2479.5744	2480.3985	---	---
2DH1	Ant1	2402	1.1513	2401.4025	2402.5538	---	---
		2441	1.1672	2440.4033	2441.5705	---	---
		2480	1.1690	2479.3993	2480.5683	---	---

Test Graphs

DH1_Ant1_2402



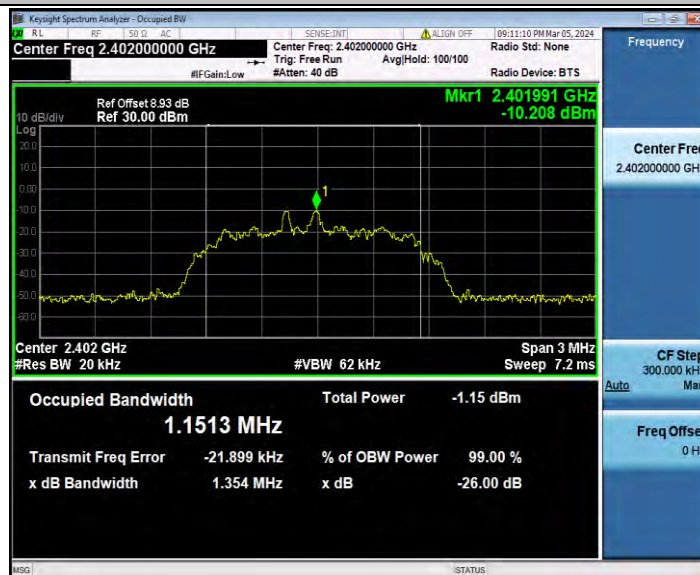
DH1_Ant1_2441



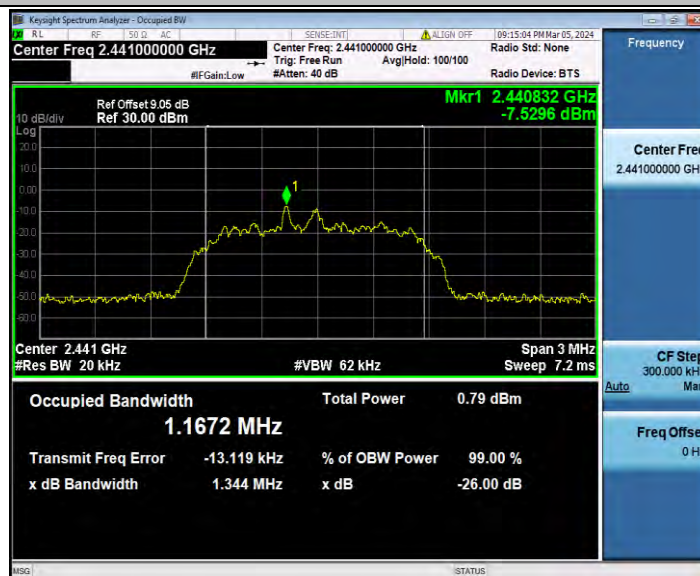
DH1_Ant1_2480

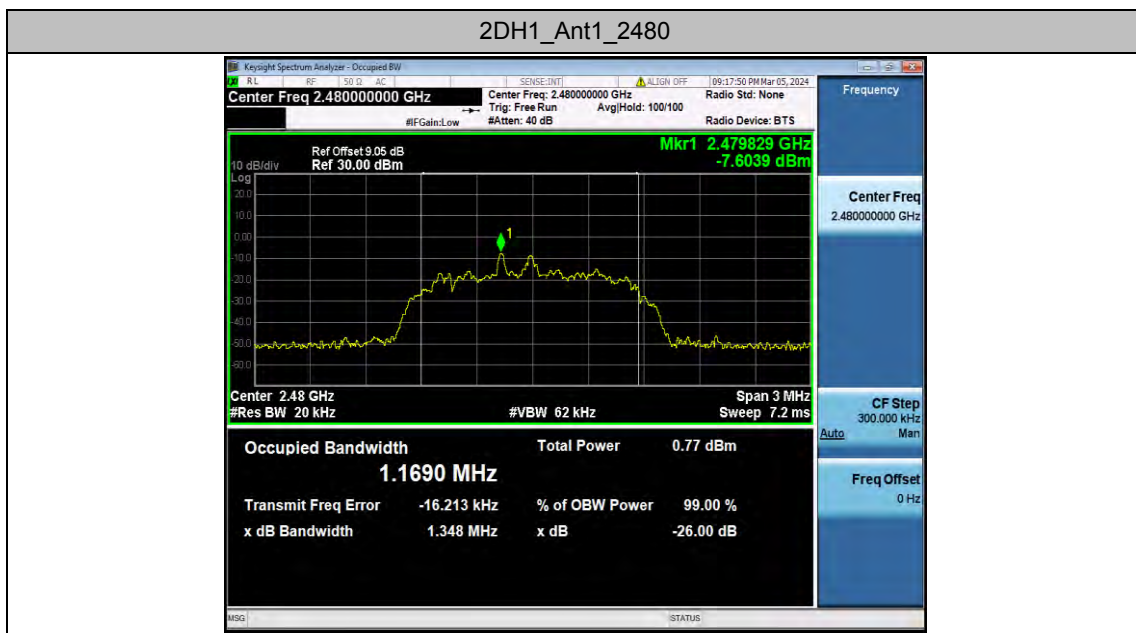


2DH1_Ant1_2402



2DH1_Ant1_2441





Appendix A.3: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	-6.37	≤30.00	PASS
		2441	-4.66	≤30.00	PASS
		2480	-4.49	≤30.00	PASS
2DH1	Ant1	2402	-5.77	≤20.97	PASS
		2441	-3.70	≤20.97	PASS
		2480	-3.89	≤20.97	PASS

Note:

1.The Duty Cycle Factor and RBW Factor is compensated in the data.

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.156	≥ 0.873	PASS
		Hop_2441	1.146	≥ 0.873	PASS
		Hop_2480	0.998	≥ 0.873	PASS
2DH1	Ant1	Hop_2402	1.008	≥ 0.838	PASS
		Hop_2441	0.998	≥ 0.838	PASS
		Hop_2480	1	≥ 0.838	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



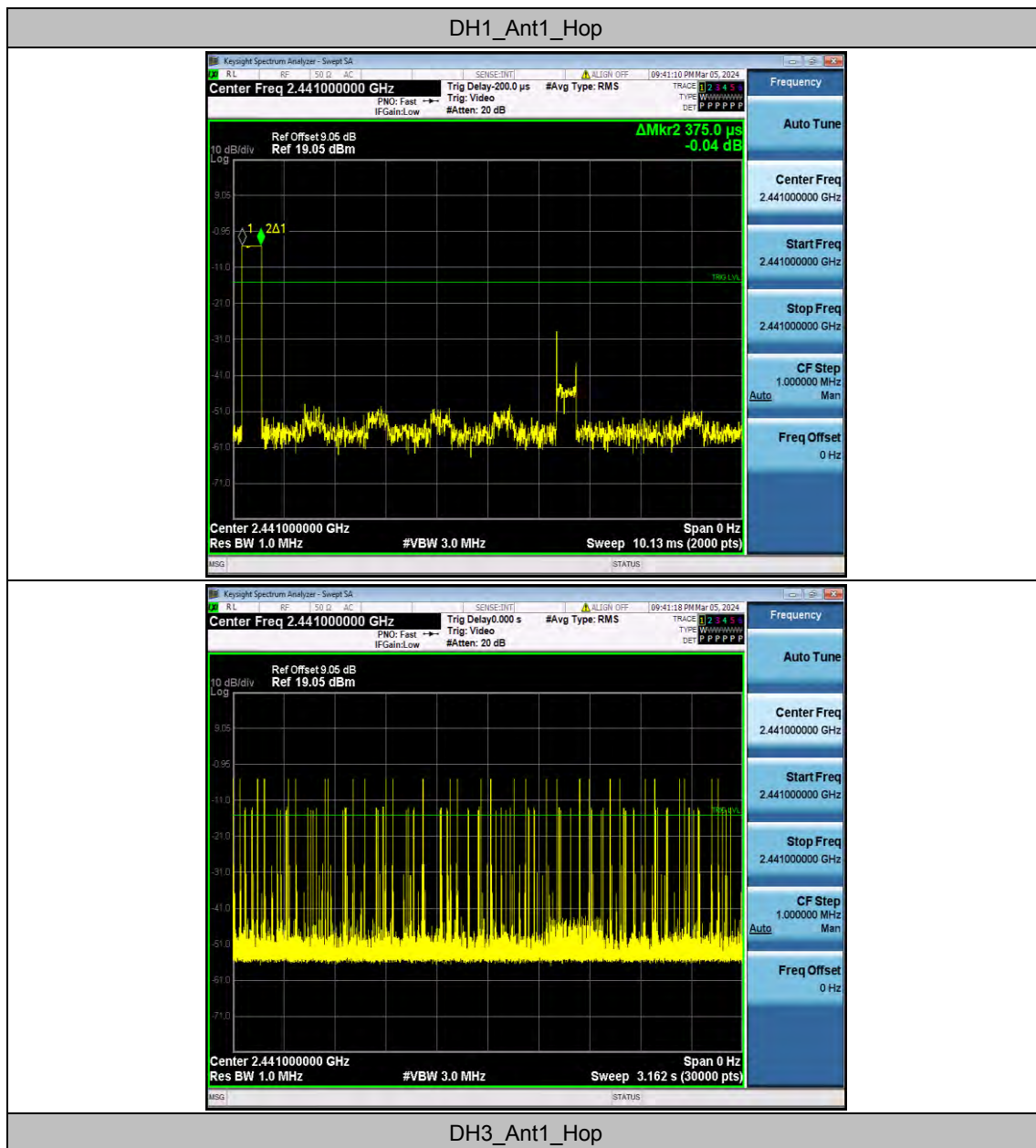


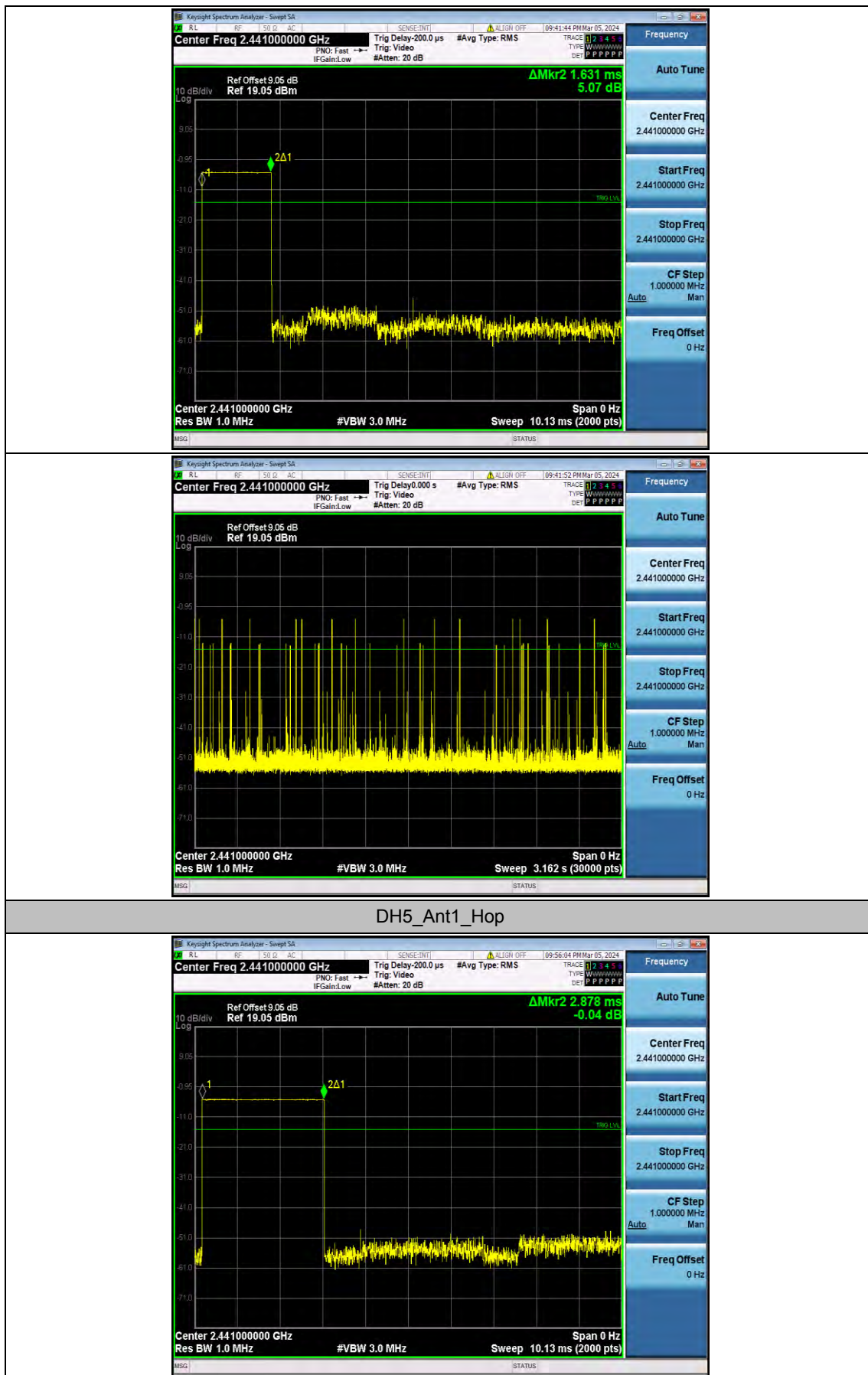
Appendix A.5: Time of occupancy

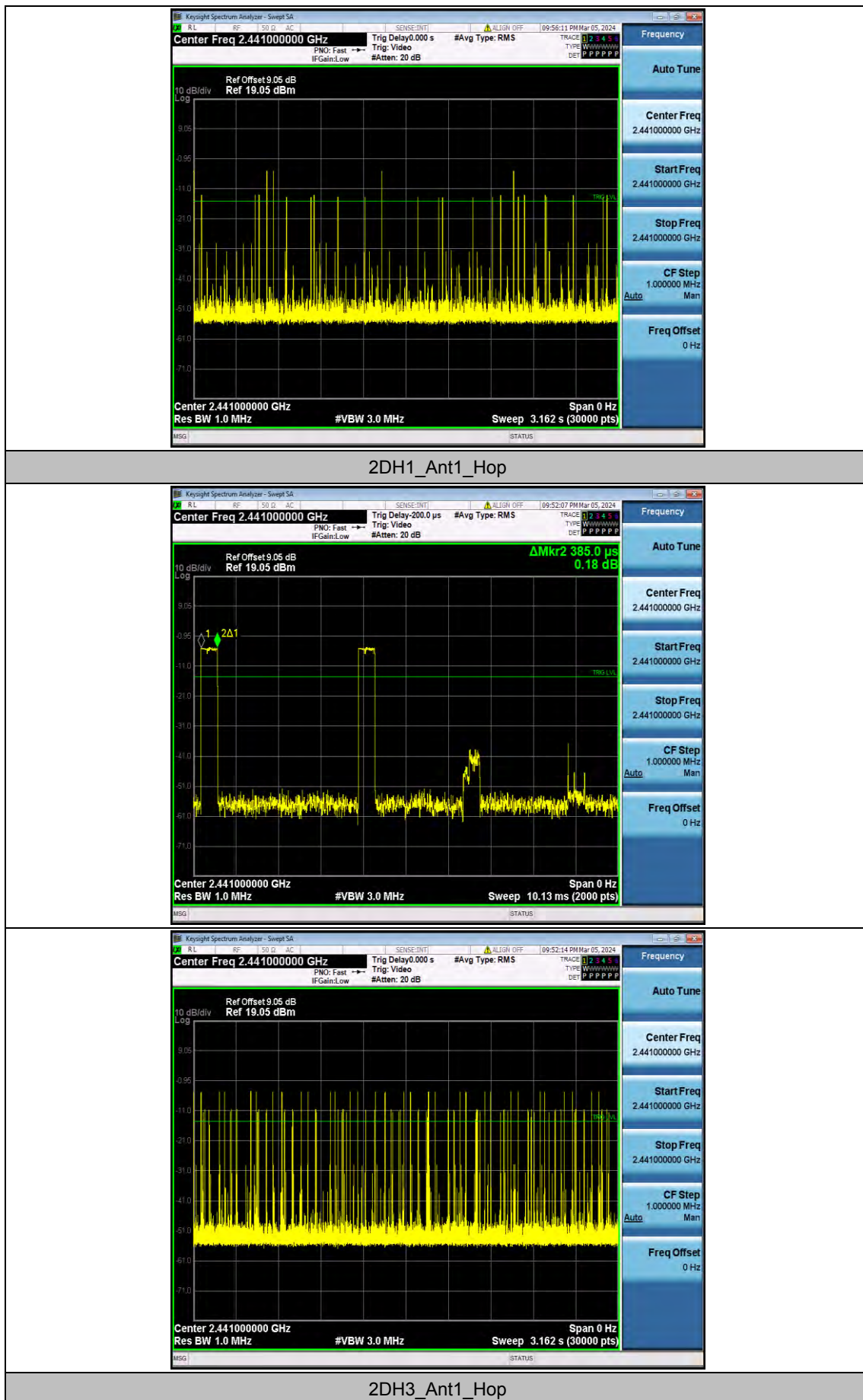
Test Result

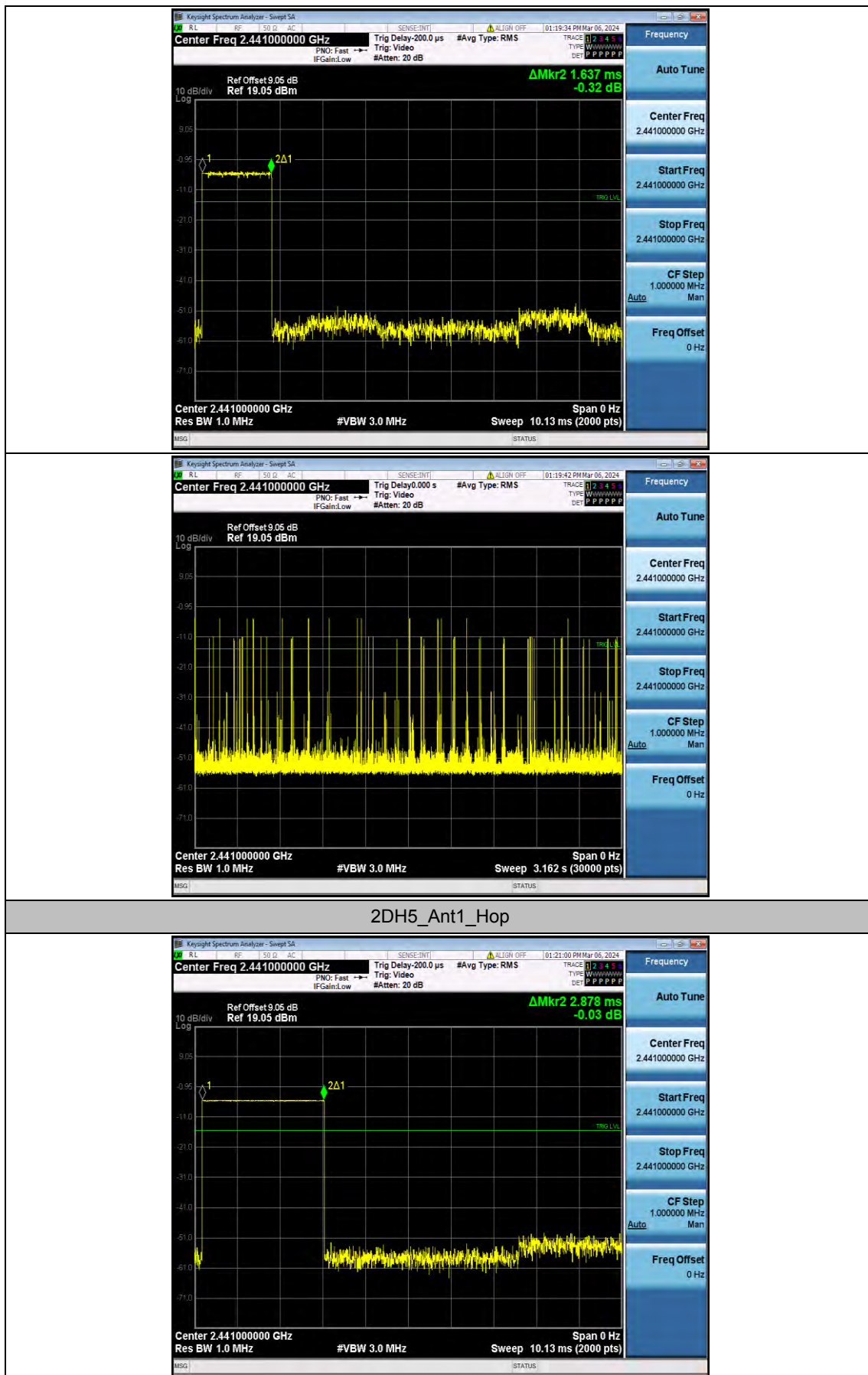
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.631	150	0.245	≤0.4	PASS
DH5	Ant1	Hop	2.878	50	0.144	≤0.4	PASS
2DH1	Ant1	Hop	0.385	440	0.169	≤0.4	PASS
2DH3	Ant1	Hop	1.637	190	0.311	≤0.4	PASS
2DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS

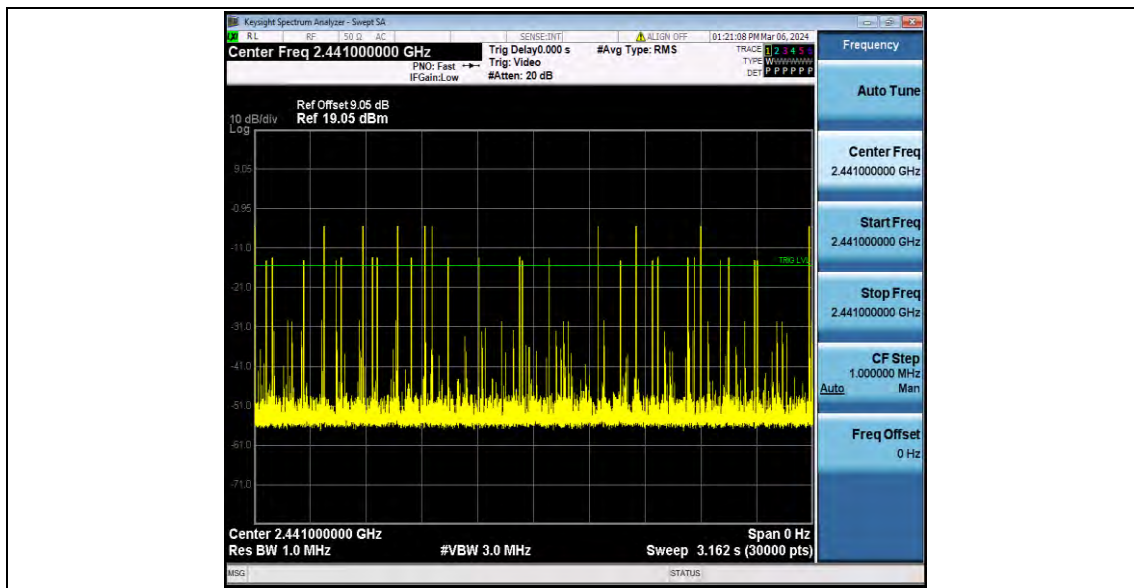
Test Graphs









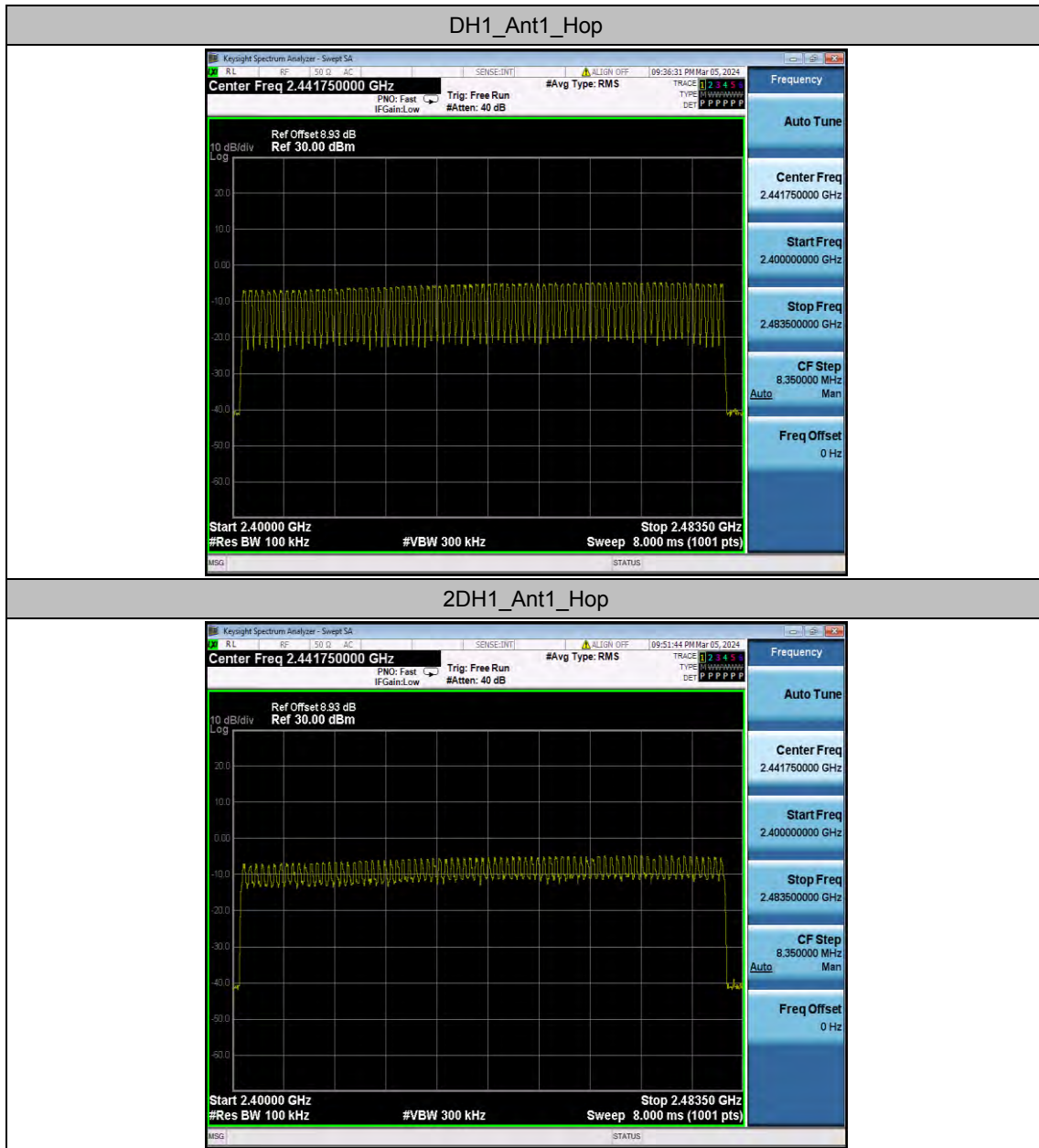


Appendix A.6: Number of hopping channels

Test Result

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

Test Graphs



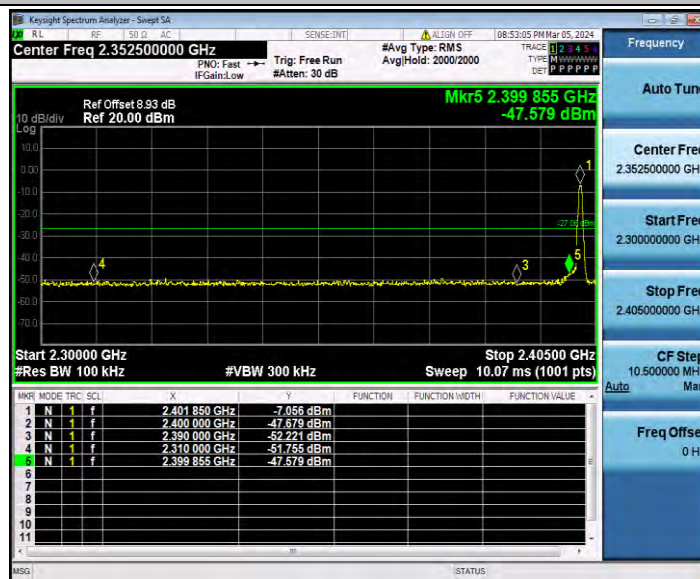
Appendix A.7: Band edge measurements

Test Result

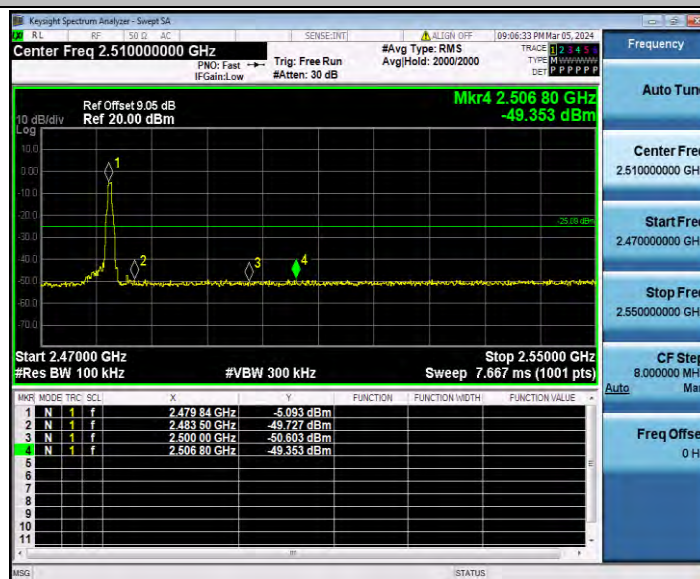
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	-7.06	-47.58	≤ -27.06	PASS
		High	2480	-5.09	-49.35	≤ -25.09	PASS
		Low	Hop_2402	-7.09	-49.14	≤ -27.09	PASS
		High	Hop_2480	-5.12	-48.56	≤ -25.12	PASS
2DH1	Ant1	Low	2402	-6.98	-47.04	≤ -26.98	PASS
		High	2480	-5.03	-48.43	≤ -25.03	PASS
		Low	Hop_2402	-7.15	-49.47	≤ -27.15	PASS
		High	Hop_2480	-5.13	-49.11	≤ -25.13	PASS

Test Graphs

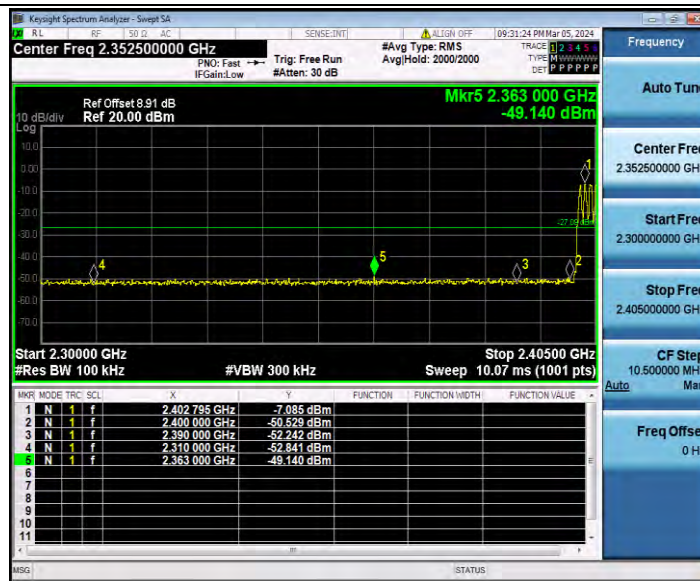
DH1_Ant1_Low_2402



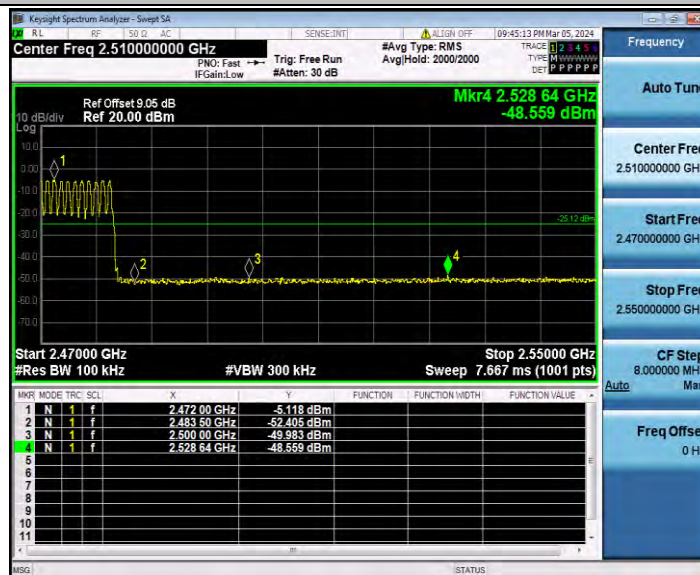
DH1_Ant1_High_2480



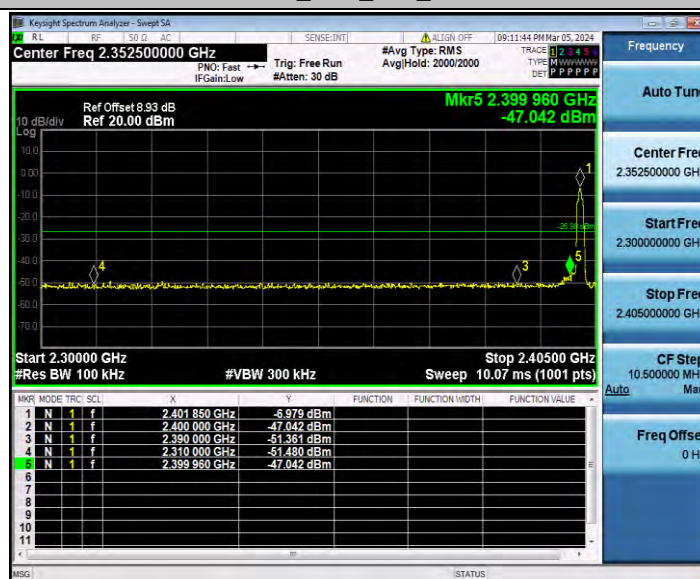
DH1_Ant1_Low_Hop_2402



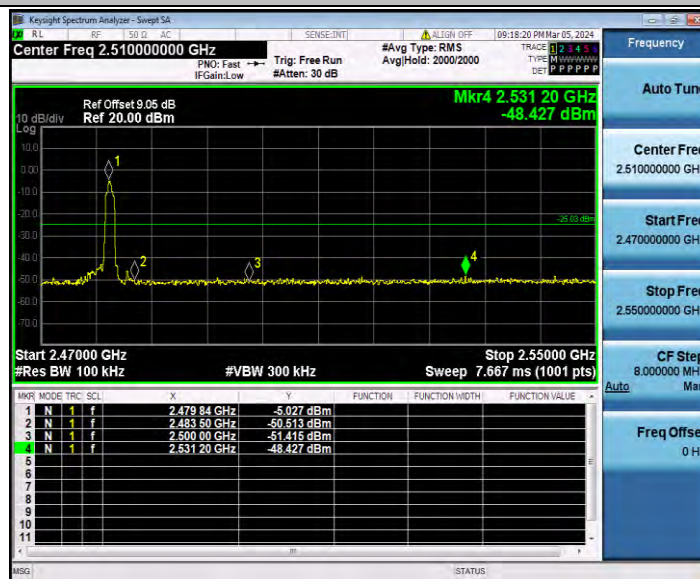
DH1_Ant1_High_Hop_2480



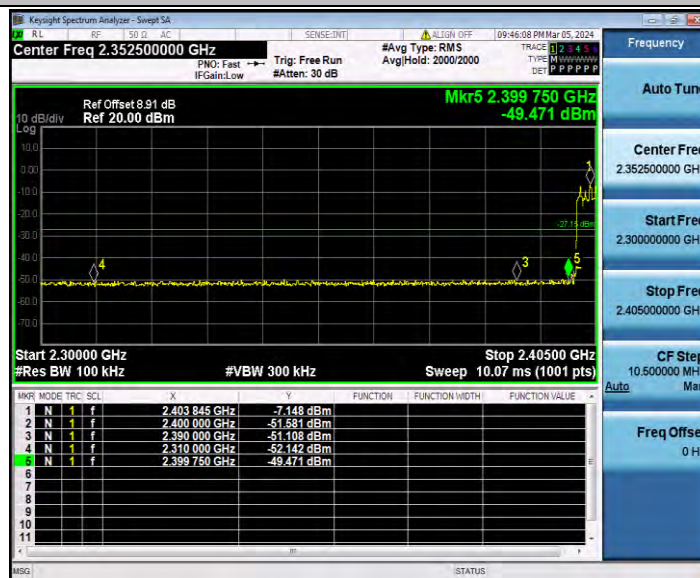
2DH1_Ant1_Low_2402



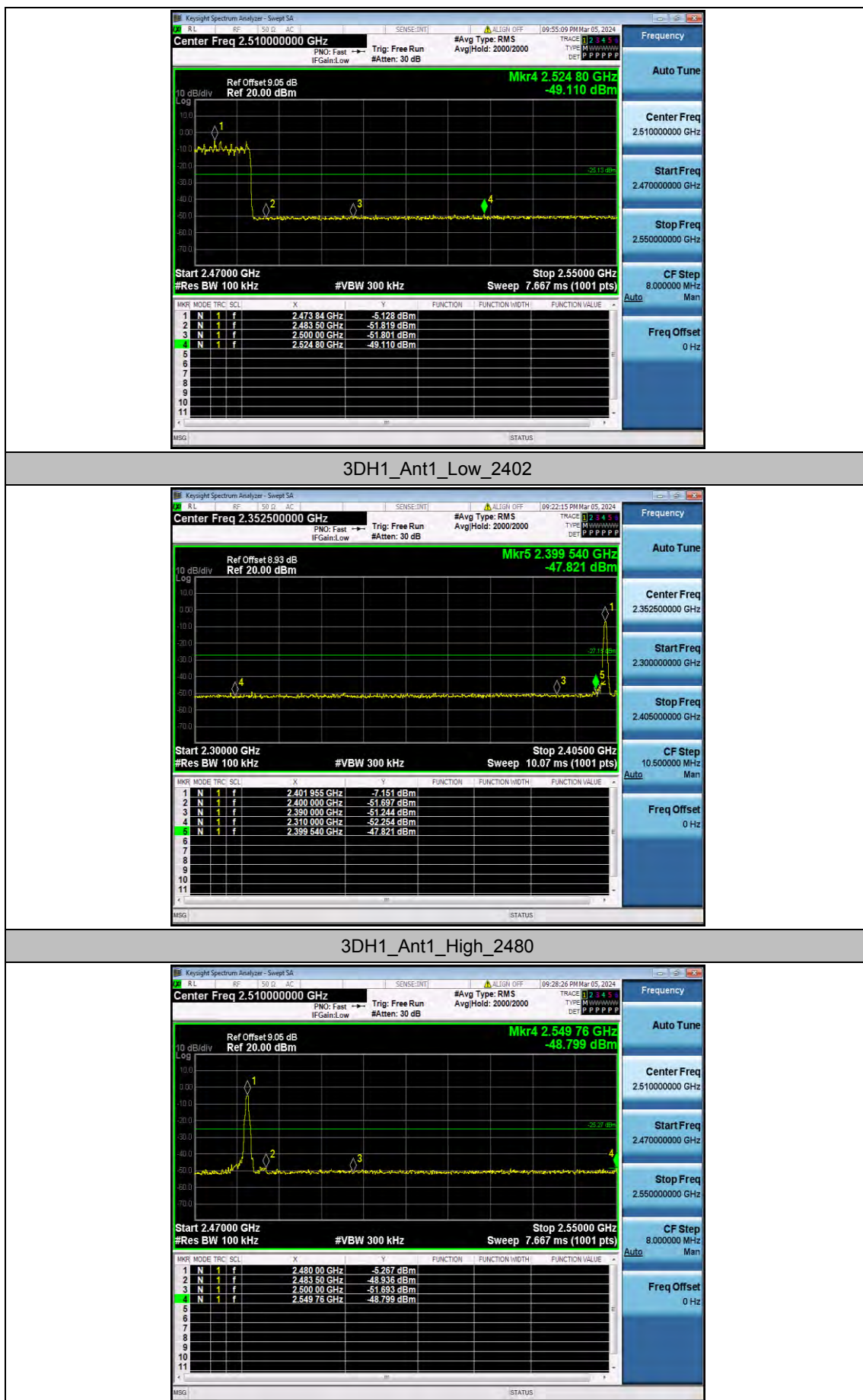
2DH1_Ant1_High_2480



2DH1_Ant1_Low_Hop_2402



2DH1_Ant1_High_Hop_2480

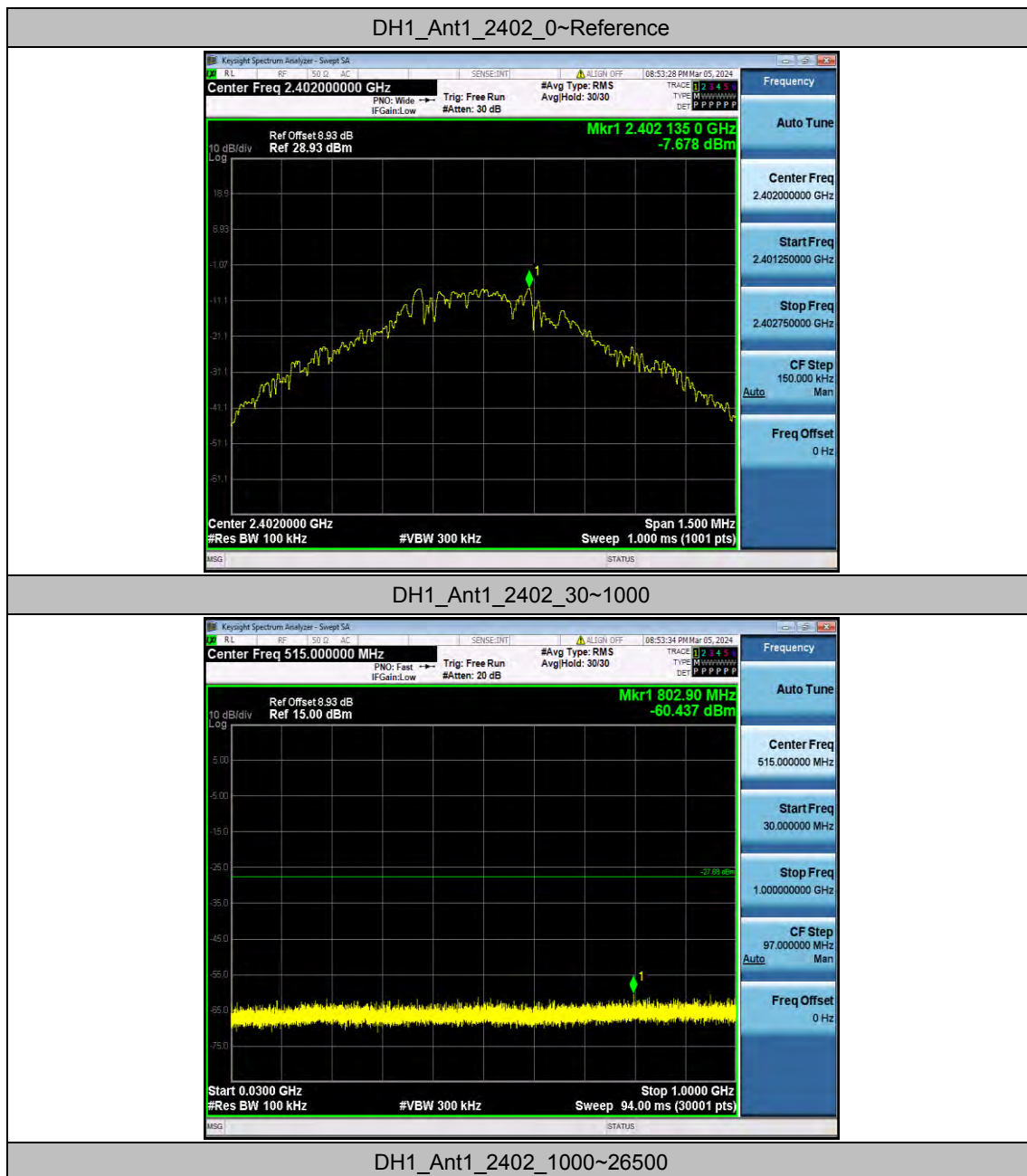


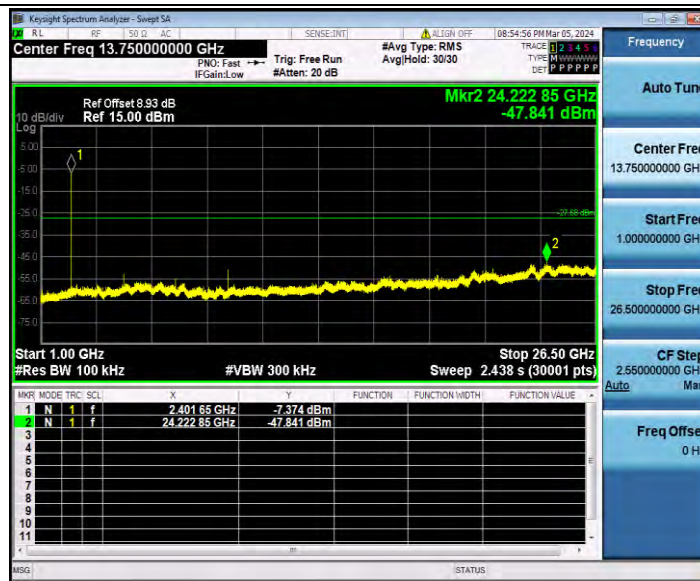
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	-7.68	-7.68	---	PASS
			30~1000	-7.68	-60.44	≤-27.68	PASS
			1000~26500	-7.68	-47.84	≤-27.68	PASS
		2441	Reference	-5.30	-5.30	---	PASS
			30~1000	-5.30	-60.56	≤-25.3	PASS
			1000~26500	-5.30	-47.65	≤-25.3	PASS
		2480	Reference	-5.25	-5.25	---	PASS
			30~1000	-5.25	-60.77	≤-25.25	PASS
			1000~26500	-5.25	-48.14	≤-25.25	PASS
2DH1	Ant1	2402	Reference	-7.48	-7.48	---	PASS
			30~1000	-7.48	-60.61	≤-27.48	PASS
			1000~26500	-7.48	-39.84	≤-27.48	PASS
		2441	Reference	-5.39	-5.39	---	PASS
			30~1000	-5.39	-61.07	≤-25.39	PASS
			1000~26500	-5.39	-47.83	≤-25.39	PASS
		2480	Reference	-5.27	-5.27	---	PASS
			30~1000	-5.27	-59.89	≤-25.27	PASS
			1000~26500	-5.27	-47.74	≤-25.27	PASS

Test Graphs

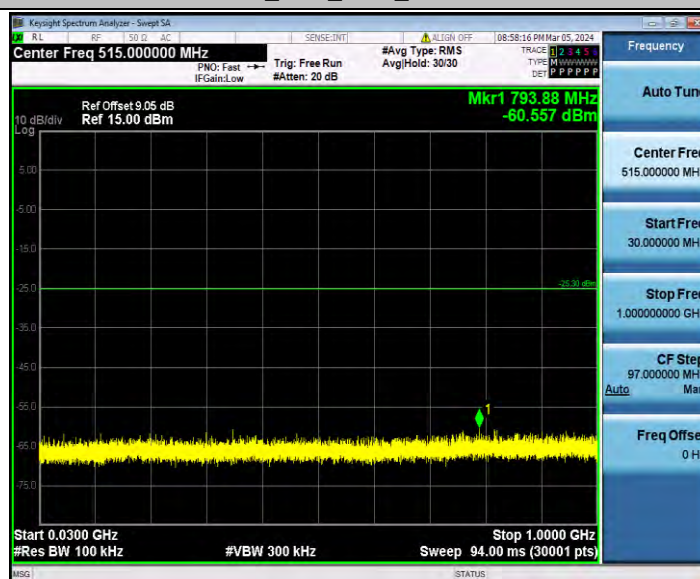




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



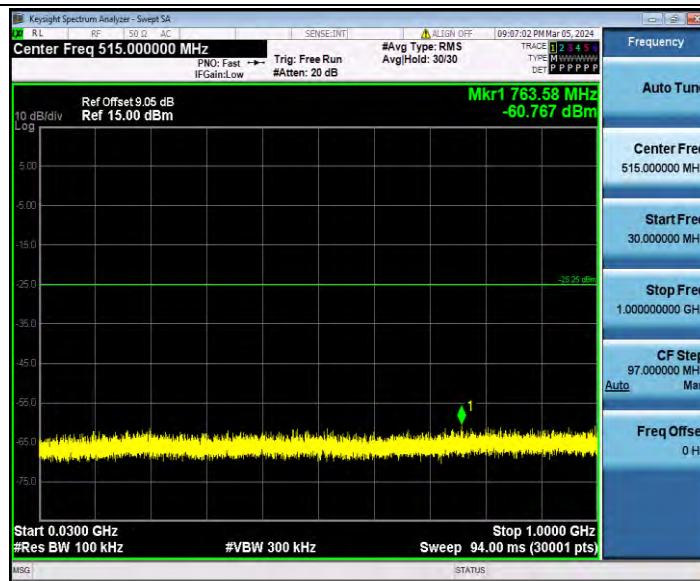
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

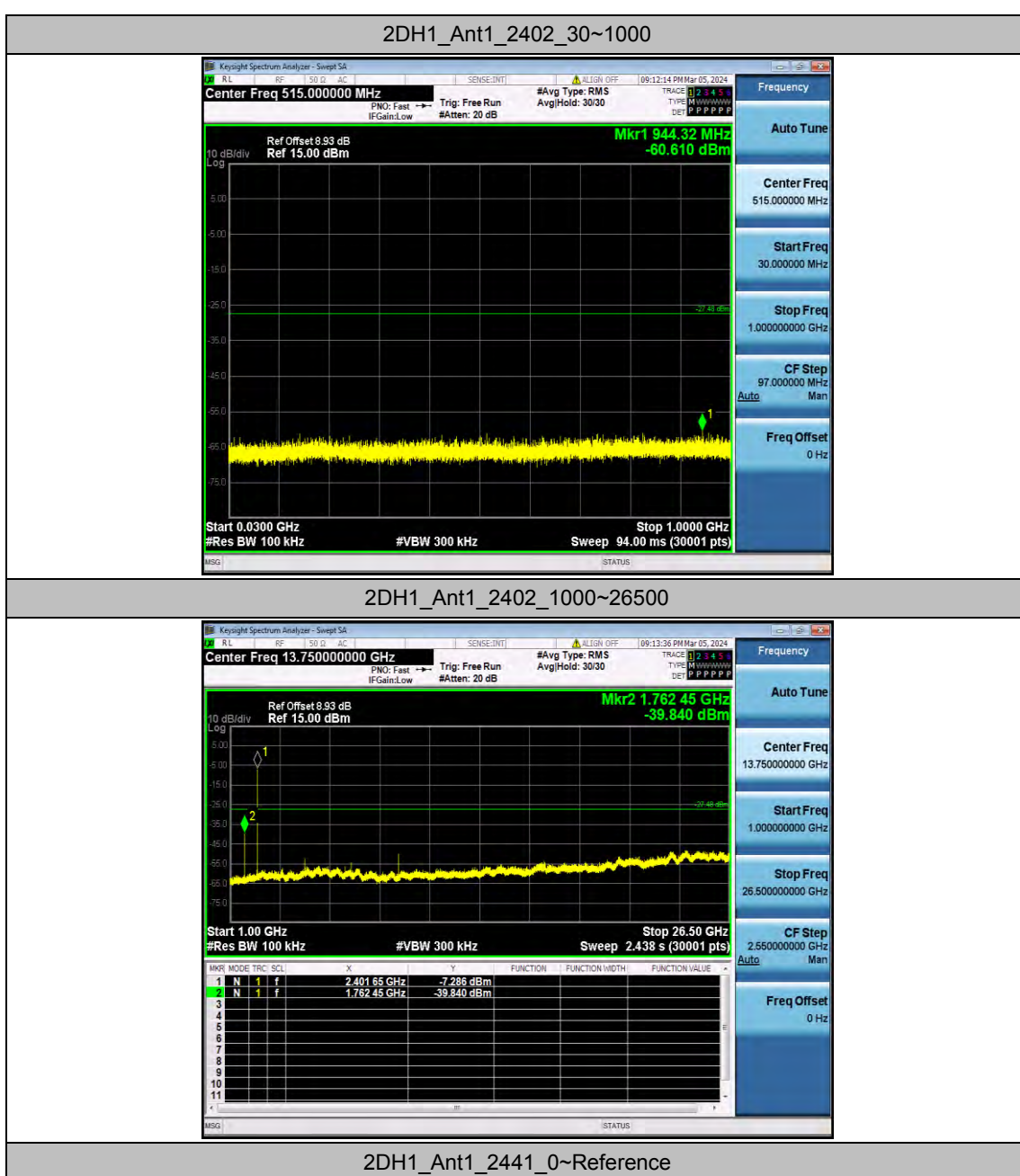


DH1_Ant1_2480_1000~26500



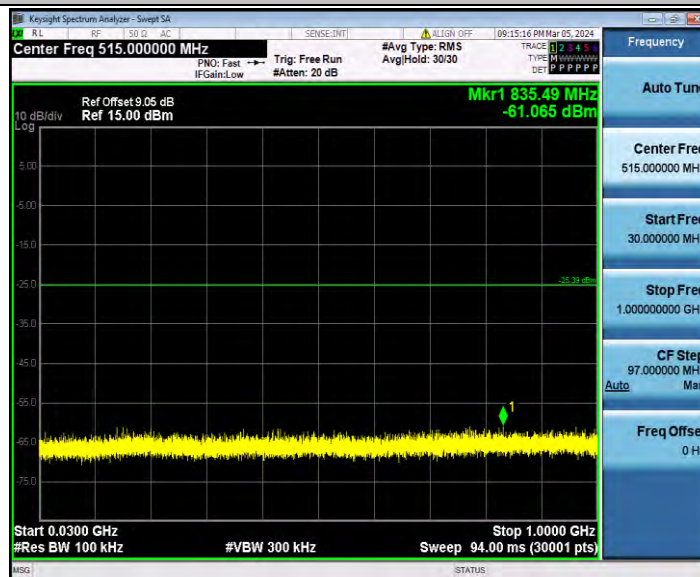
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



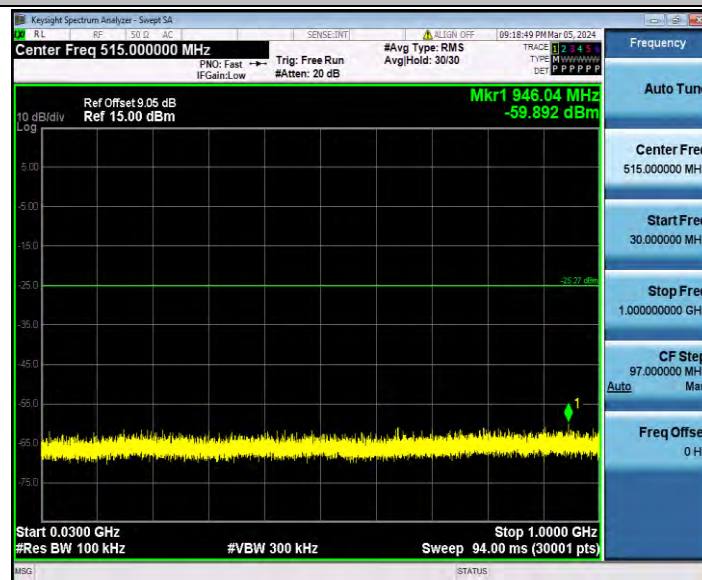
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500



Appendix A.9: Emissions in Restricted Bands

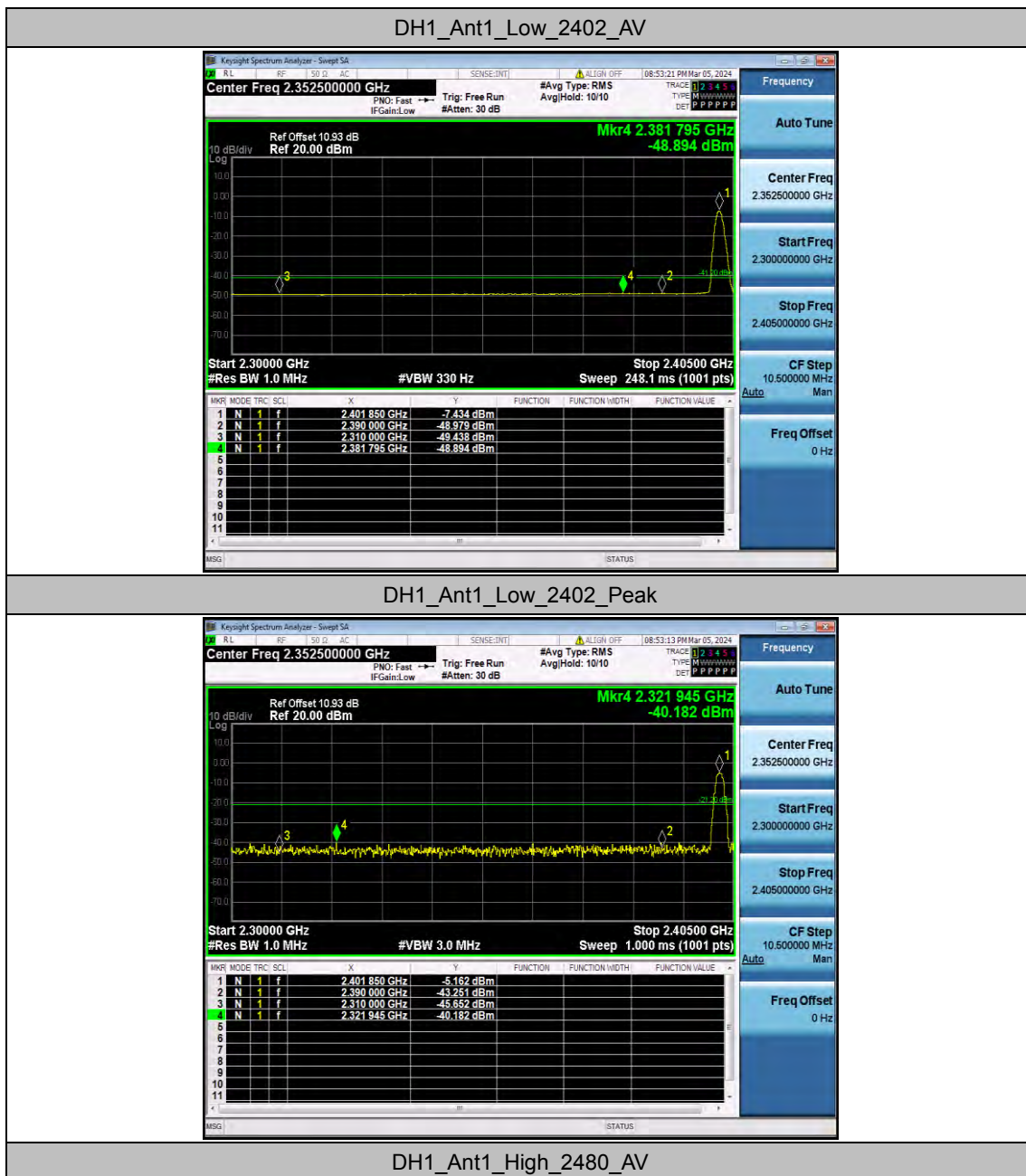
Test Result

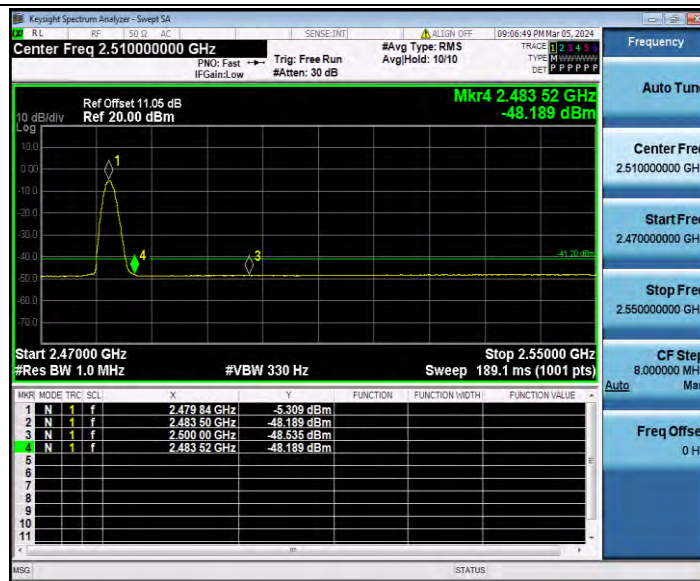
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2381.795	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2390.000	-48.98	≤-41.20	46.22	≤54	PASS
				Peak	2310.000	-45.65	≤-21.20	49.55	≤74	PASS
				Peak	2321.945	-40.18	≤-21.20	55.02	≤74	PASS
				Peak	2390.000	-43.25	≤-21.20	51.95	≤74	PASS
		High	2480	AV	2483.500	-48.19	≤-41.20	47.01	≤54	PASS
				AV	2483.520	-48.19	≤-41.20	47.01	≤54	PASS
				AV	2500.000	-48.54	≤-41.20	46.66	≤54	PASS
				Peak	2483.500	-40.35	≤-21.20	54.85	≤74	PASS
				Peak	2494.320	-38.3	≤-21.20	56.90	≤74	PASS
				Peak	2500.000	-41.03	≤-21.20	54.17	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.43	≤-41.20	45.77	≤54	PASS
				AV	2380.745	-48.75	≤-41.20	46.45	≤54	PASS
				AV	2390.000	-48.93	≤-41.20	46.27	≤54	PASS
				Peak	2310.000	-41.22	≤-21.20	53.98	≤74	PASS
				Peak	2367.725	-38.9	≤-21.20	56.30	≤74	PASS
				Peak	2390.000	-40.32	≤-21.20	54.88	≤74	PASS
		High	2480	AV	2483.500	-48.37	≤-41.20	46.83	≤54	PASS
				AV	2483.600	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2500.000	-48.34	≤-41.20	46.86	≤54	PASS
				Peak	2483.500	-40.11	≤-21.20	55.09	≤74	PASS
				Peak	2495.280	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2500.000	-41.62	≤-21.20	53.58	≤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

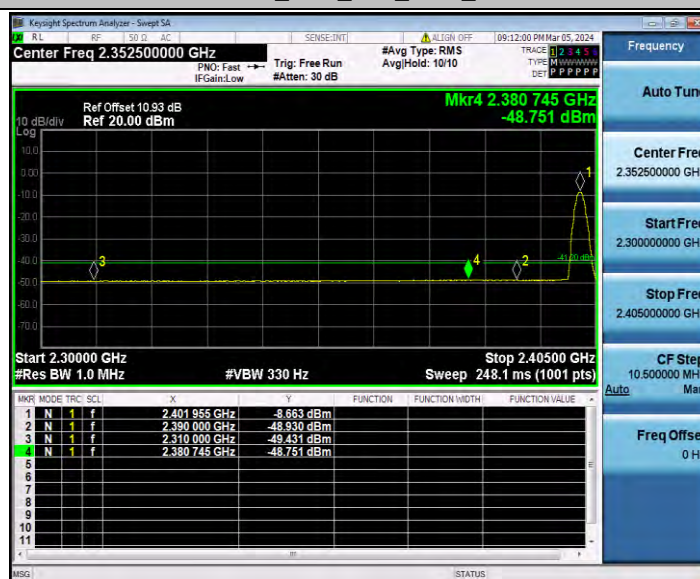




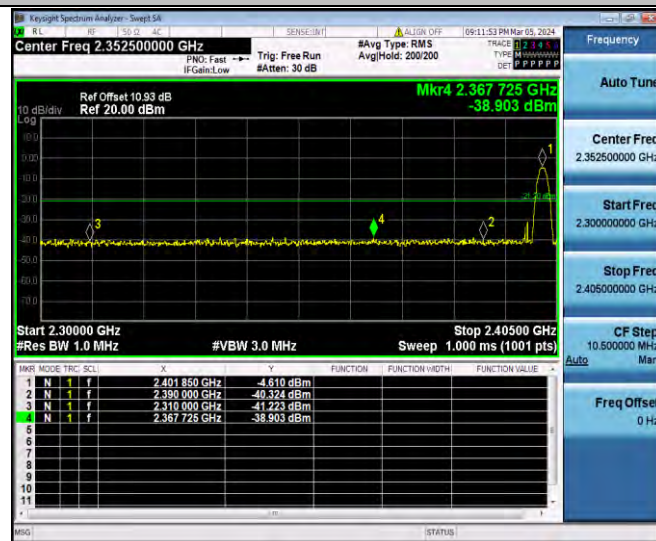
DH1_Ant1_High_2480_Peak



2DH1_Ant1_Low_2402_AV



2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak

