

Case No. : <u>GTS20231226020-1-9</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2024.1.16</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	1.014	2401.484	2402.498	---	---
		2441	1.035	2440.478	2441.513	---	---
		2480	1.047	2479.469	2480.516	---	---
2DH1	Ant1	2402	1.296	2401.355	2402.651	---	---
		2441	1.236	2440.367	2441.603	---	---
		2480	1.287	2479.331	2480.618	---	---

Test Graphs





2DH1_Ant1_2402



2DH1_Ant1_2441



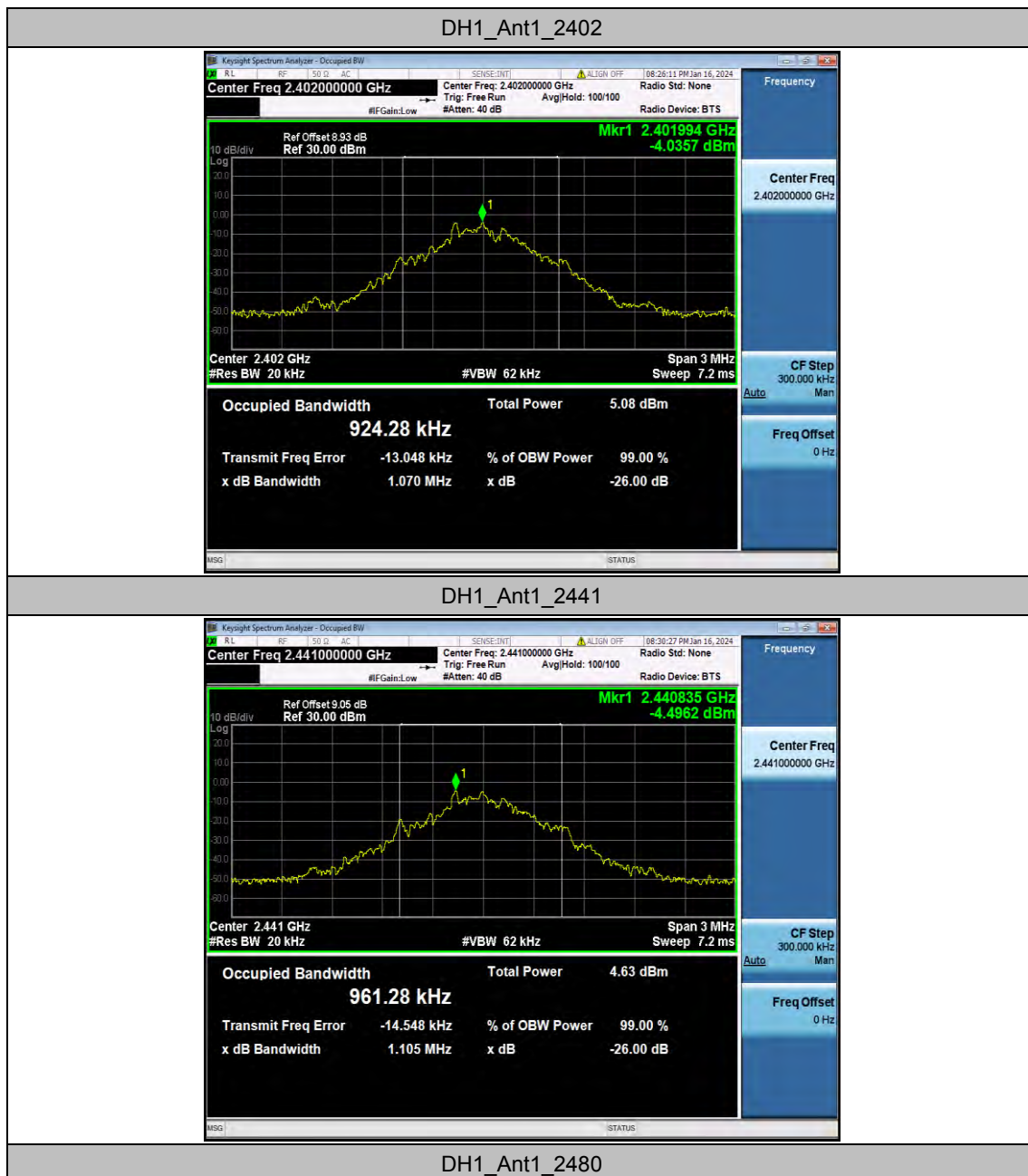


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.92428	2401.5248	2402.4491	---	---
		2441	0.96128	2440.5048	2441.4661	---	---
		2480	0.99282	2479.4986	2480.4915	---	---
2DH1	Ant1	2402	1.1935	2401.4005	2402.5940	---	---
		2441	1.2124	2440.3919	2441.6043	---	---
		2480	1.2098	2479.3790	2480.5888	---	---

Test Graphs



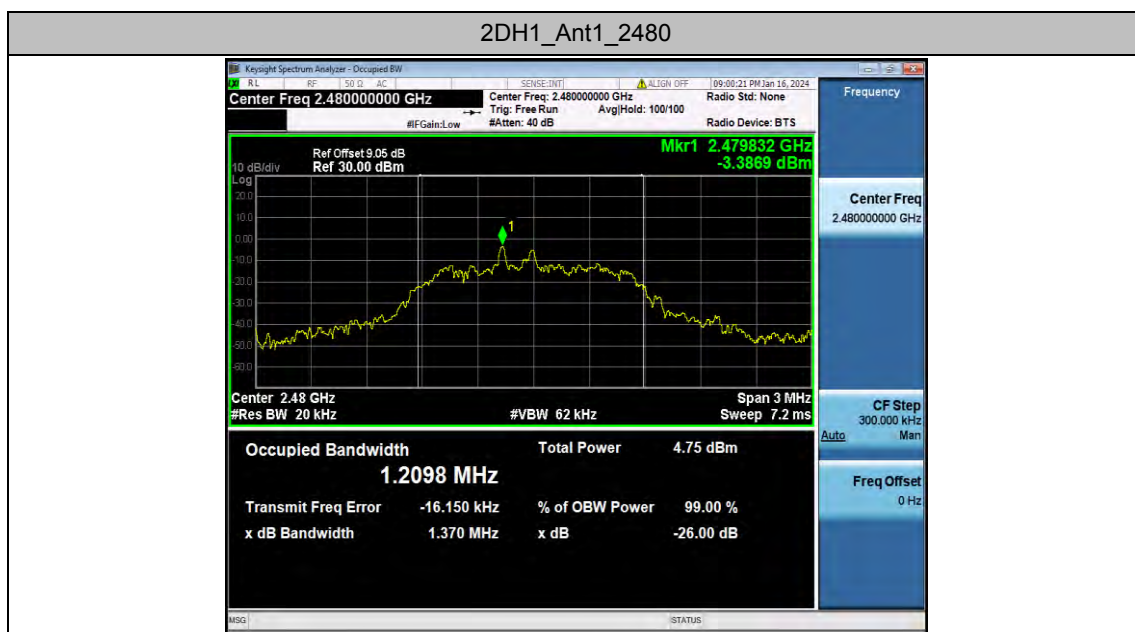


2DH1_Ant1_2402



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	-0.68	≤ 20.97	PASS
		2441	-1.09	≤ 20.97	PASS
		2480	-0.81	≤ 20.97	PASS
2DH1	Ant1	2402	-0.32	≤ 20.97	PASS
		2441	-0.59	≤ 20.97	PASS
		2480	-0.32	≤ 20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.99	≥ 0.698	PASS
		Hop_2441	0.994	≥ 0.698	PASS
		Hop_2480	0.994	≥ 0.698	PASS
2DH1	Ant1	Hop_2402	1.166	≥ 0.864	PASS
		Hop_2441	1.014	≥ 0.864	PASS
		Hop_2480	0.998	≥ 0.864	PASS

Test Graphs

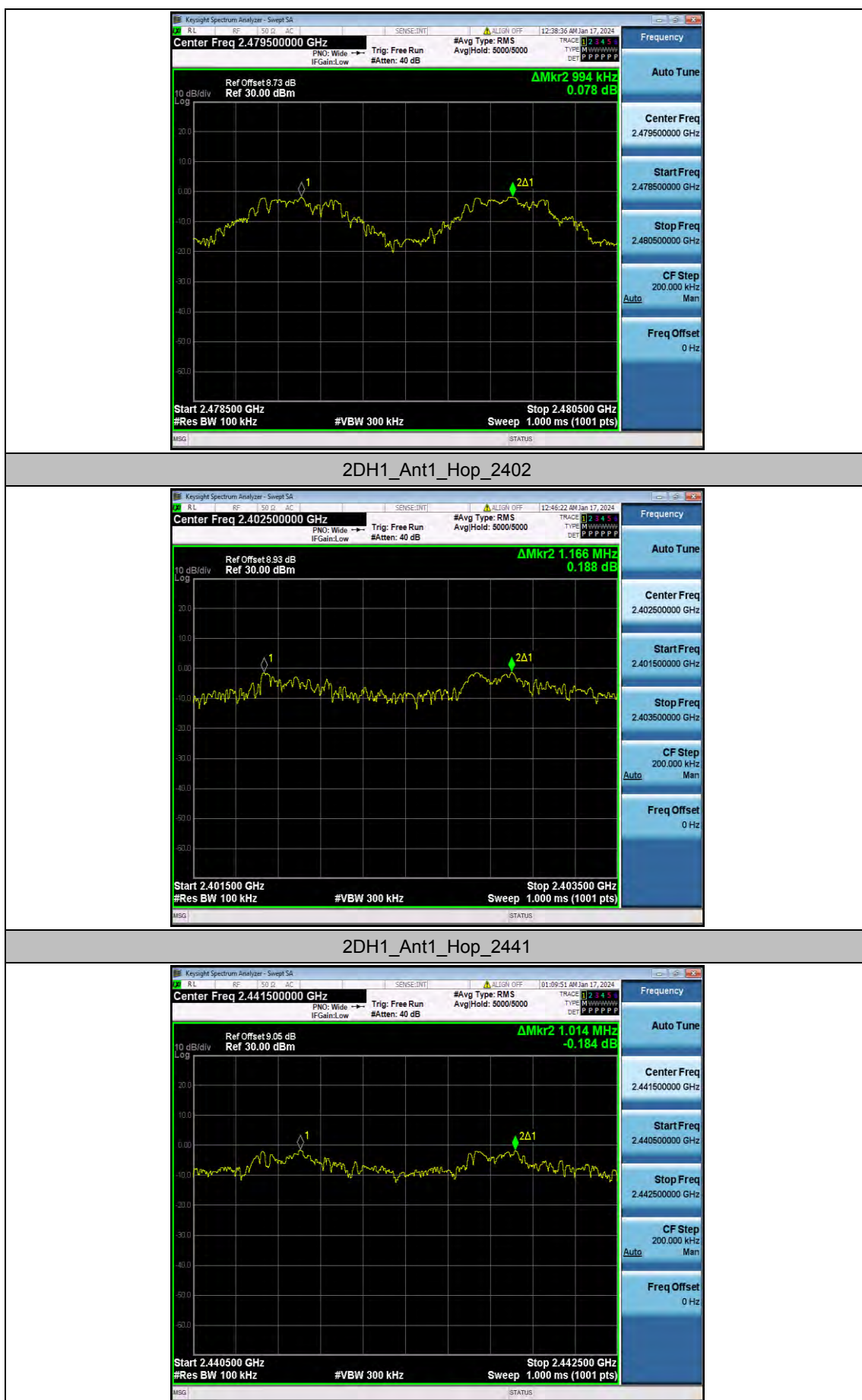
DH1_Ant1_Hop_2402

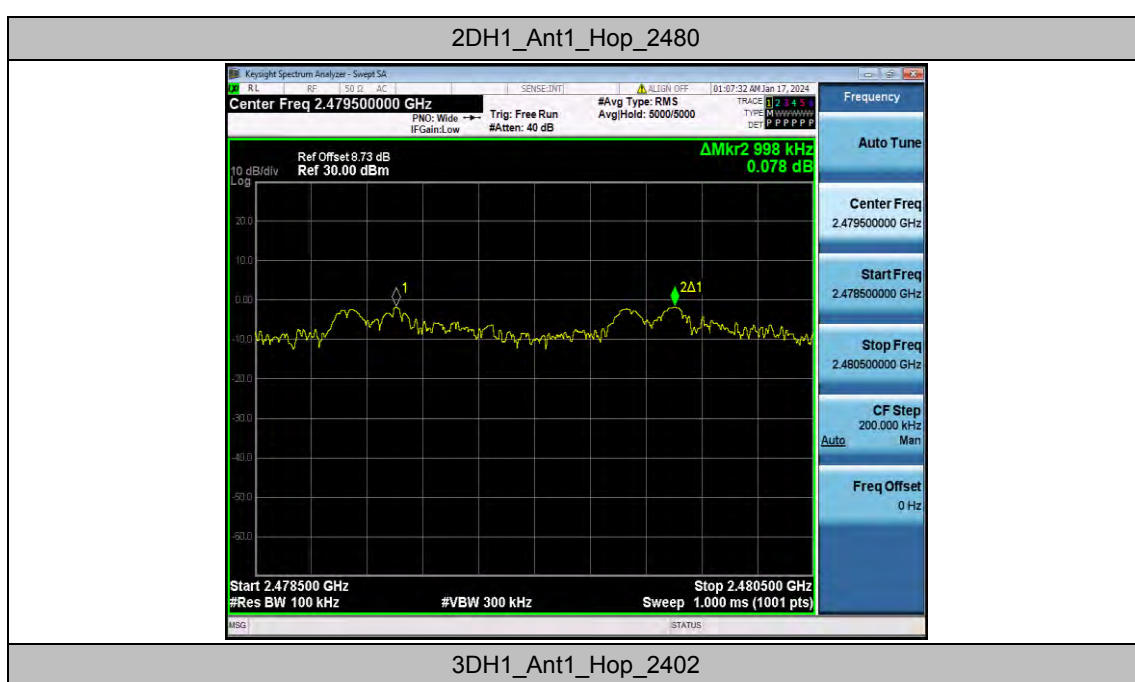


DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



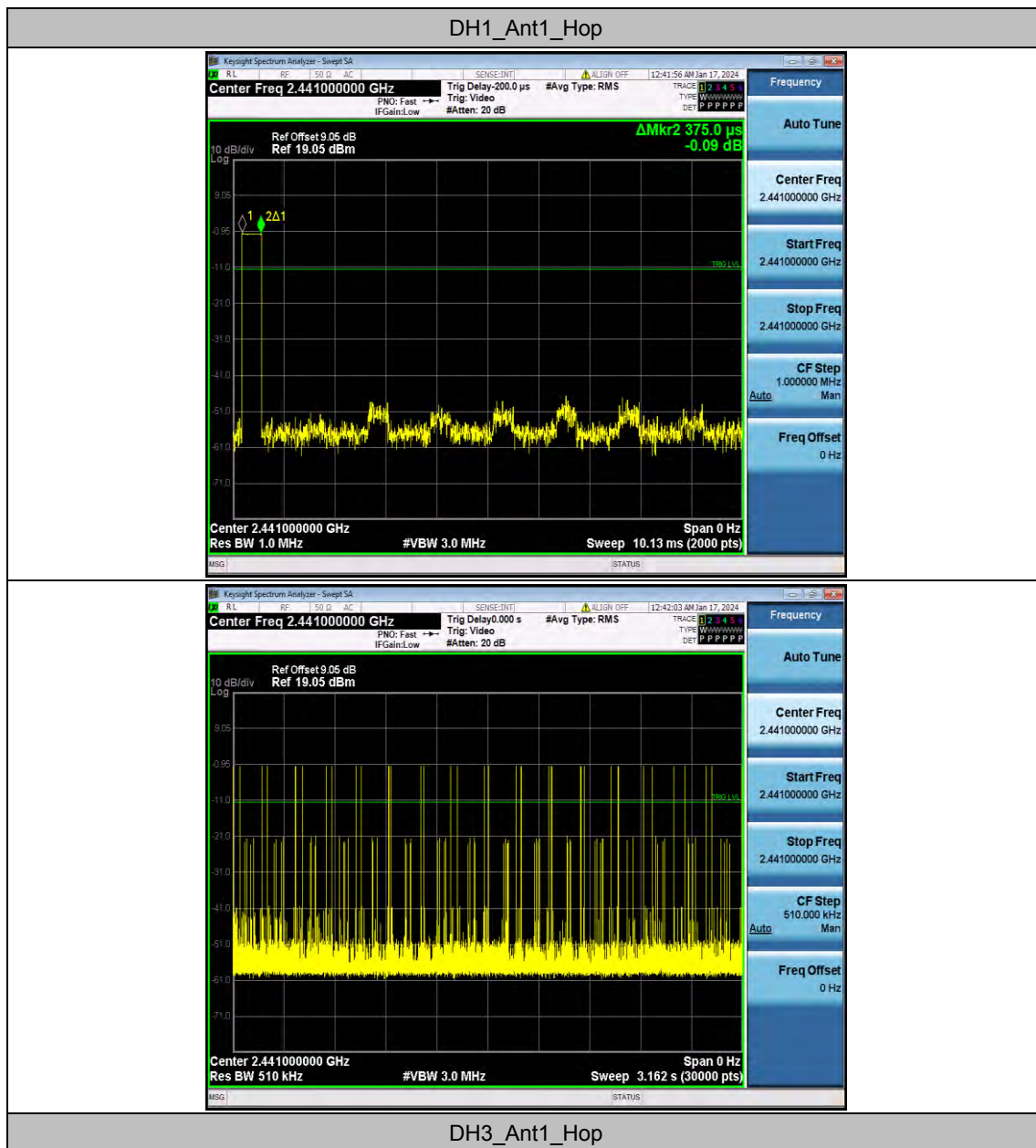


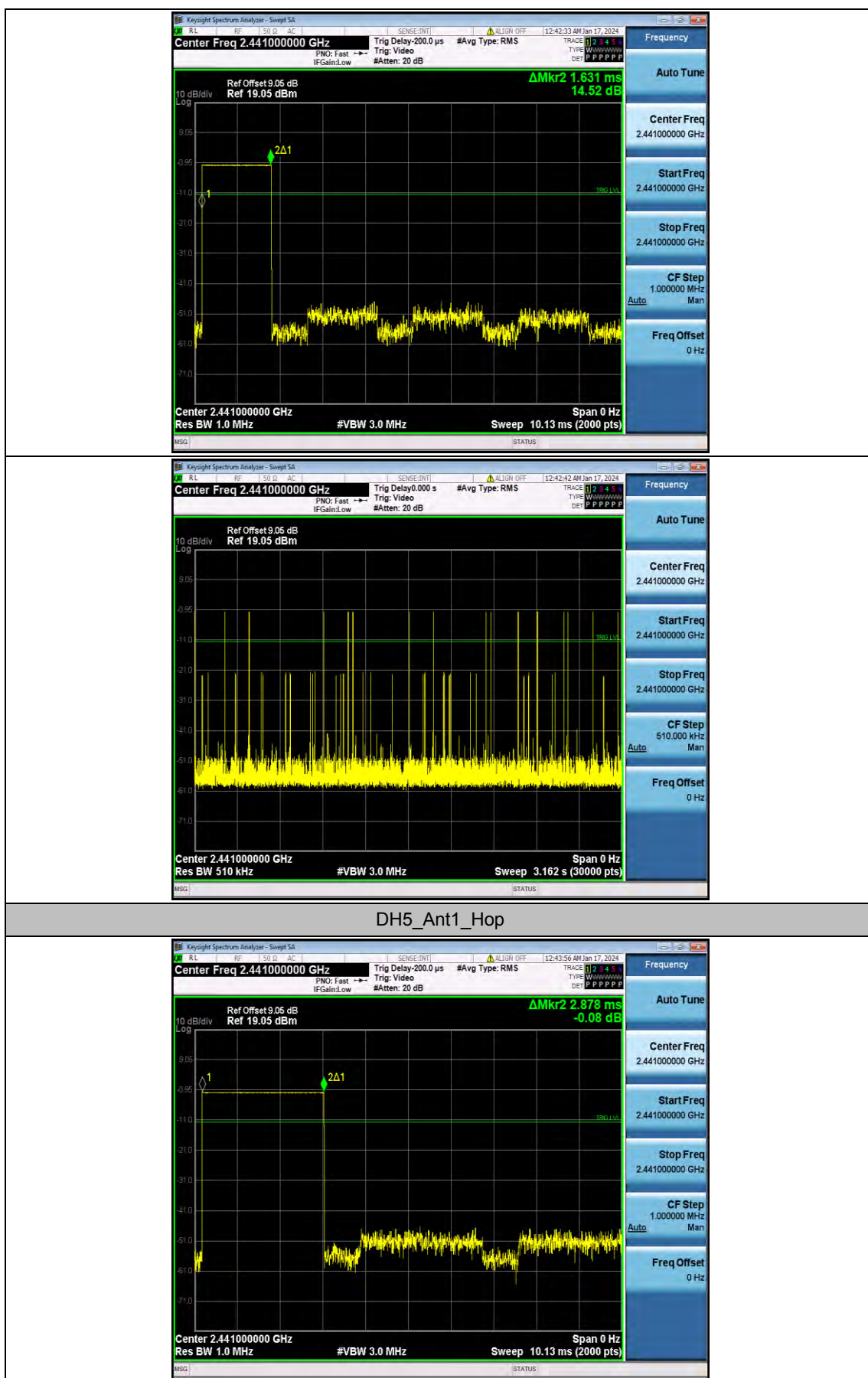
Appendix A.5: Time of occupancy

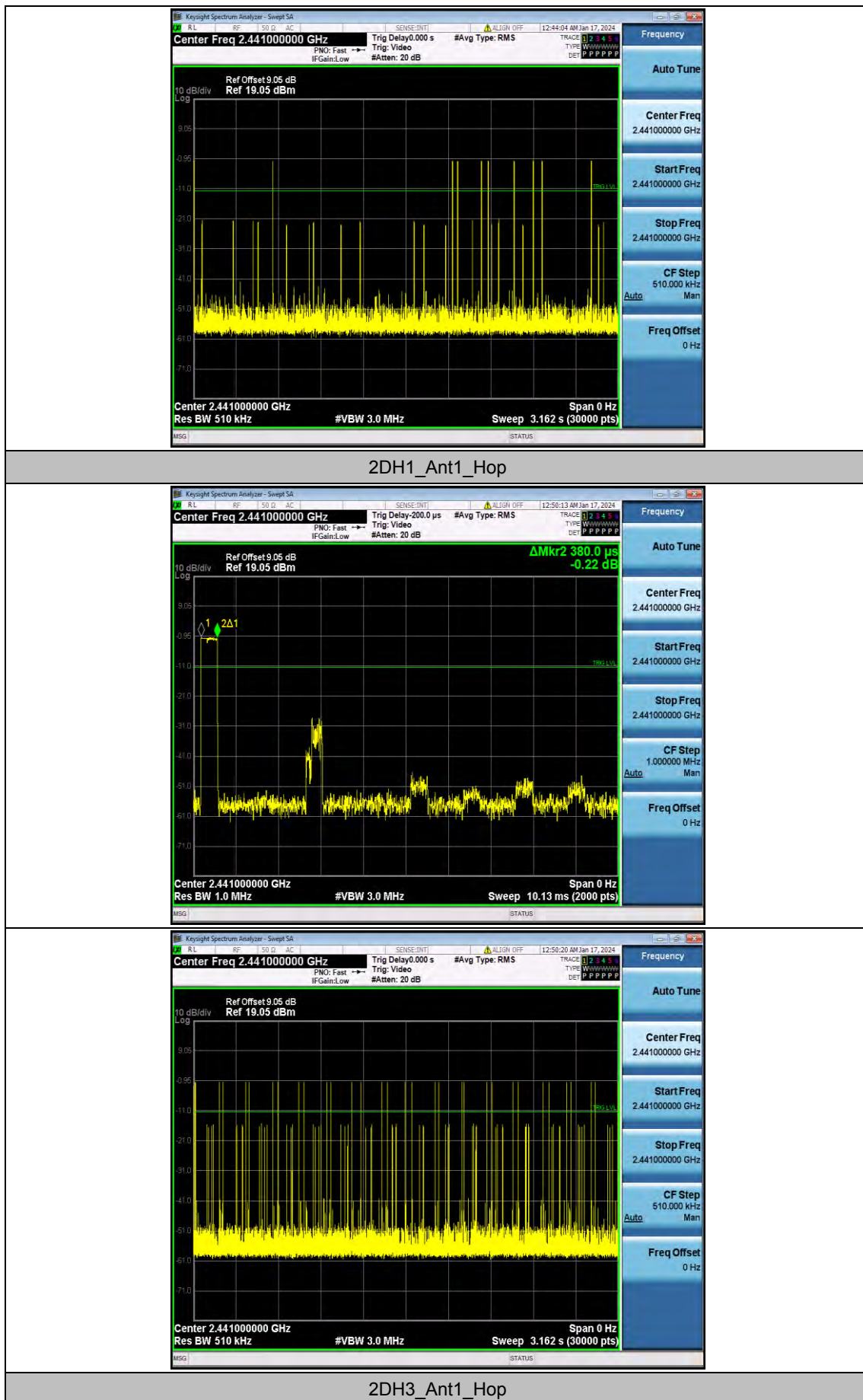
Test Result

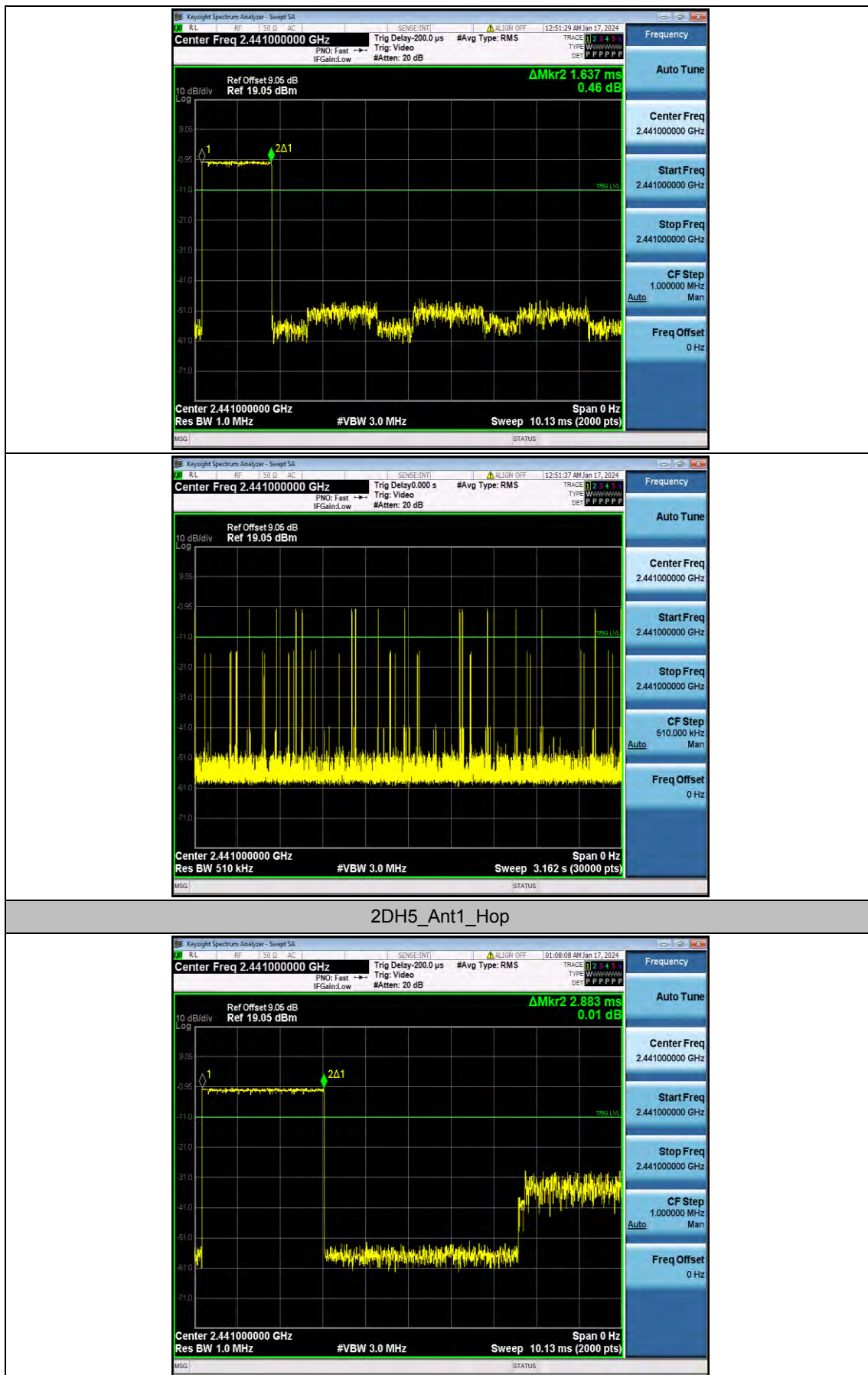
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.380	330	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.637	170	0.278	≤0.4	PASS
2DH5	Ant1	Hop	2.883	100	0.288	≤0.4	PASS

Test Graphs







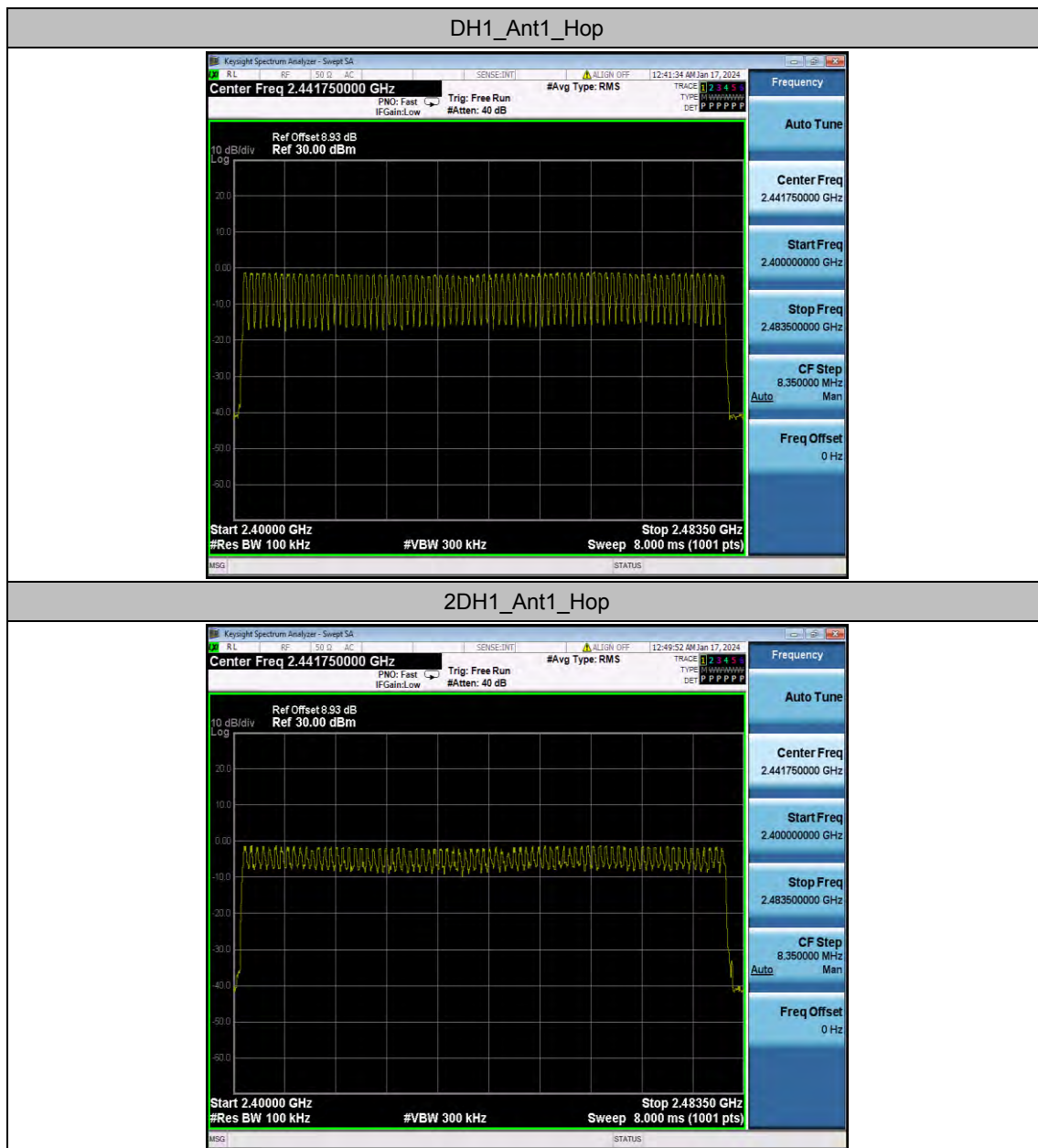


Appendix A.6: Number of hopping channels

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

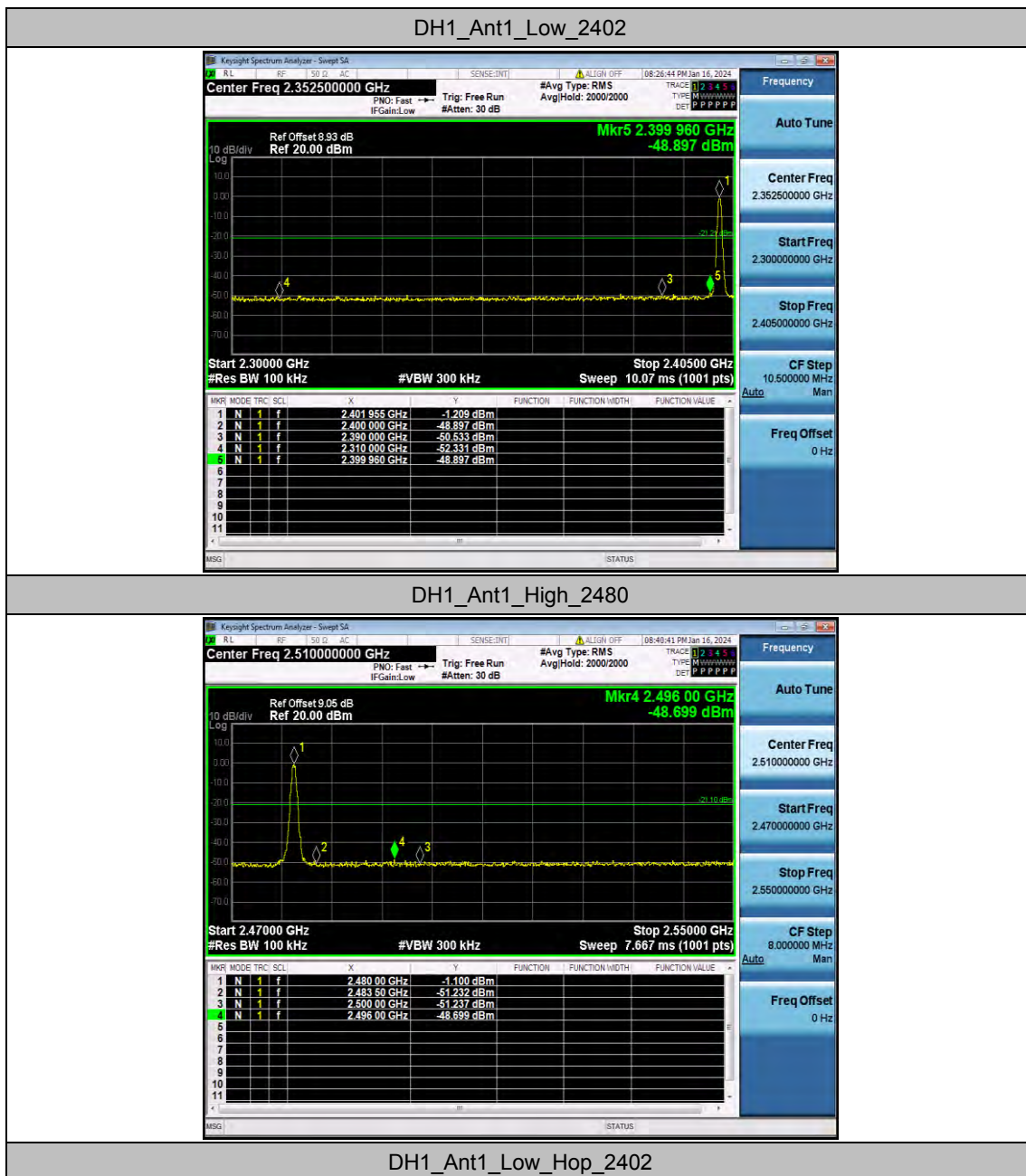


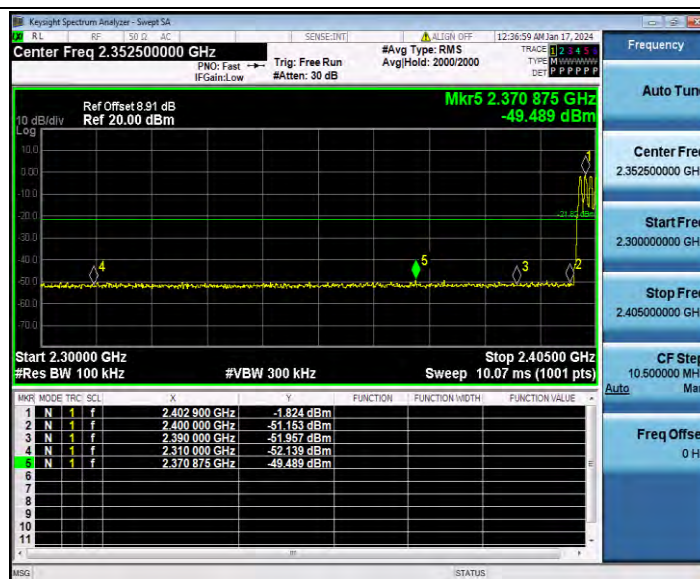
Appendix A.7: Band edge measurements

Test Result

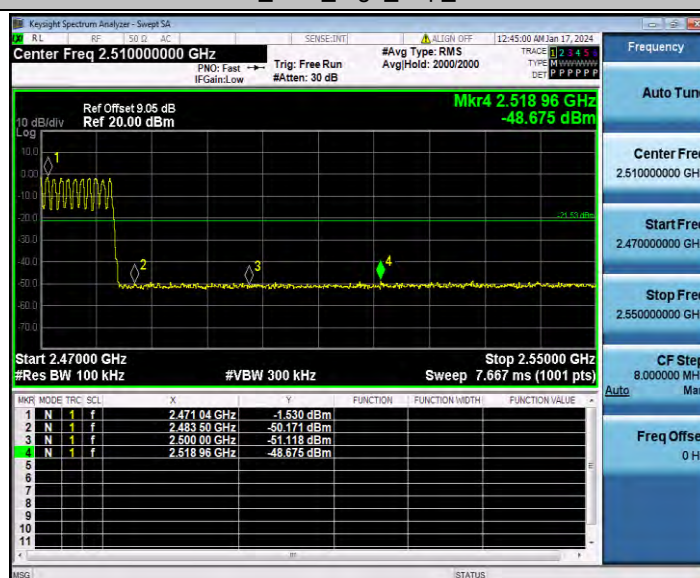
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	-1.21	-48.9	≤ -21.21	PASS
		High	2480	-1.10	-48.7	≤ -21.1	PASS
		Low	Hop_2402	-1.82	-49.49	≤ -21.82	PASS
		High	Hop_2480	-1.53	-48.68	≤ -21.53	PASS
2DH1	Ant1	Low	2402	-1.22	-41.54	≤ -21.22	PASS
		High	2480	-1.09	-49.2	≤ -21.09	PASS
		Low	Hop_2402	-1.68	-48.79	≤ -21.68	PASS
		High	Hop_2480	-2.33	-48.8	≤ -22.33	PASS

Test Graphs

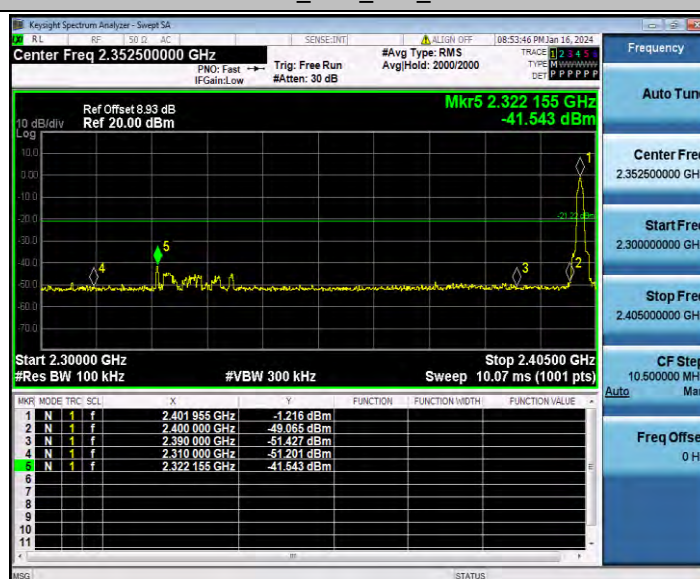




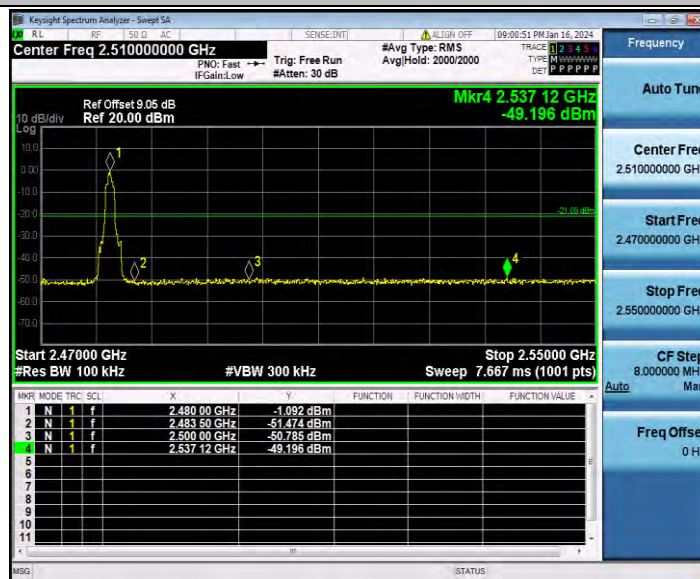
DH1_Ant1_High_Hop_2480



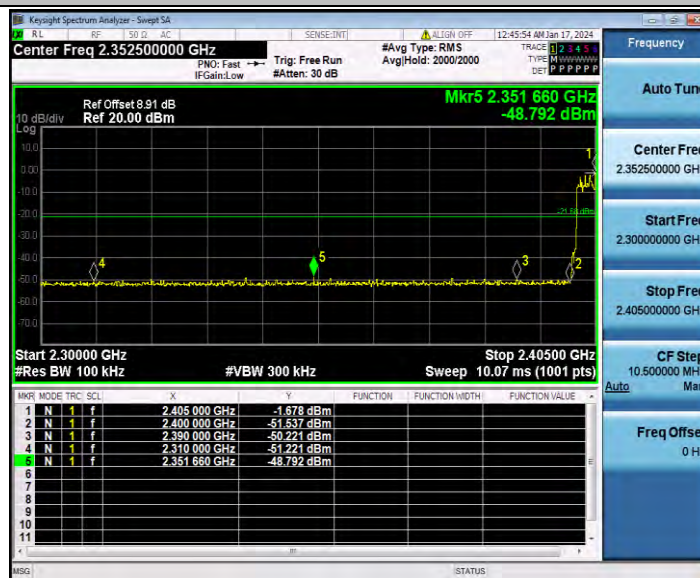
2DH1_Ant1_Low_2402



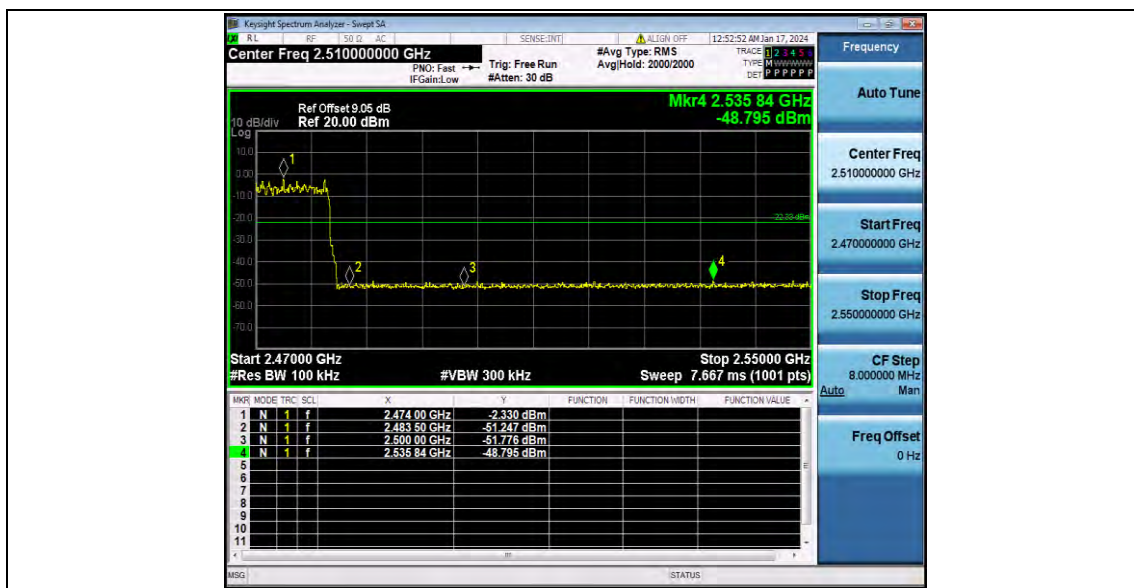
2DH1_Ant1_High_2480



2DH1_Ant1_Low_Hop_2402



2DH1_Ant1_High_Hop_2480

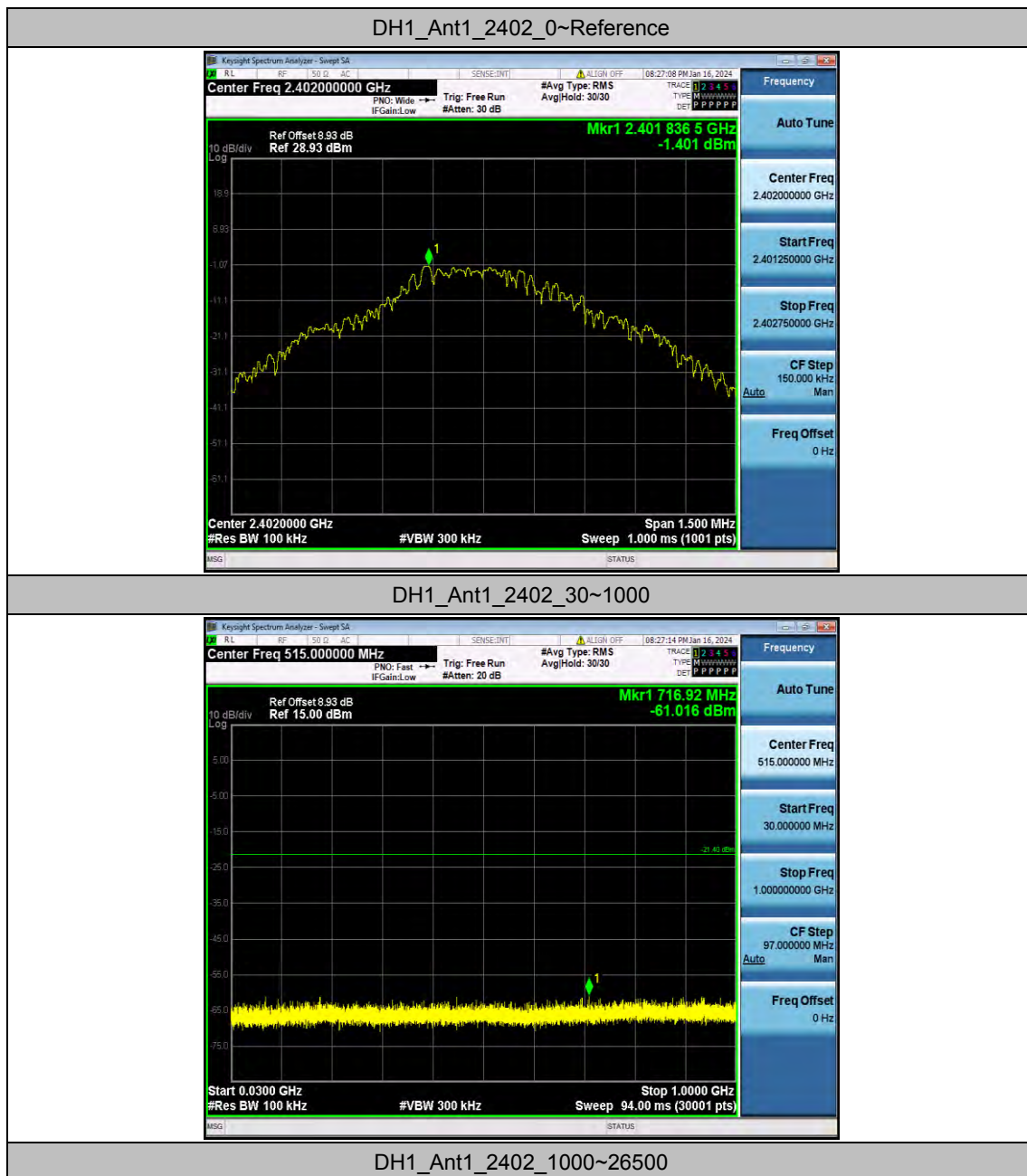


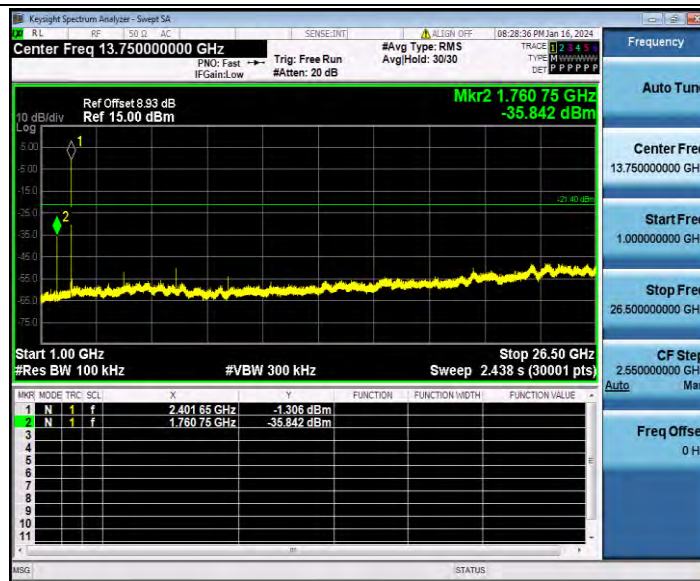
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-61.02	≤ -21.4	PASS
			1000~26500	-1.40	-35.84	≤ -21.4	PASS
		2441	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-60.91	≤ -22.01	PASS
			1000~26500	-2.01	-47.59	≤ -22.01	PASS
		2480	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-60.34	≤ -21.22	PASS
			1000~26500	-1.22	-45.95	≤ -21.22	PASS
2DH1	Ant1	2402	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-41.57	≤ -21.35	PASS
			1000~26500	-1.35	-47.94	≤ -21.35	PASS
		2441	Reference	-1.52	-1.52	---	PASS
			30~1000	-1.52	-60.89	≤ -21.52	PASS
			1000~26500	-1.52	-48	≤ -21.52	PASS
		2480	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-60.01	≤ -21.21	PASS
			1000~26500	-1.21	-37.94	≤ -21.21	PASS

Test Graphs

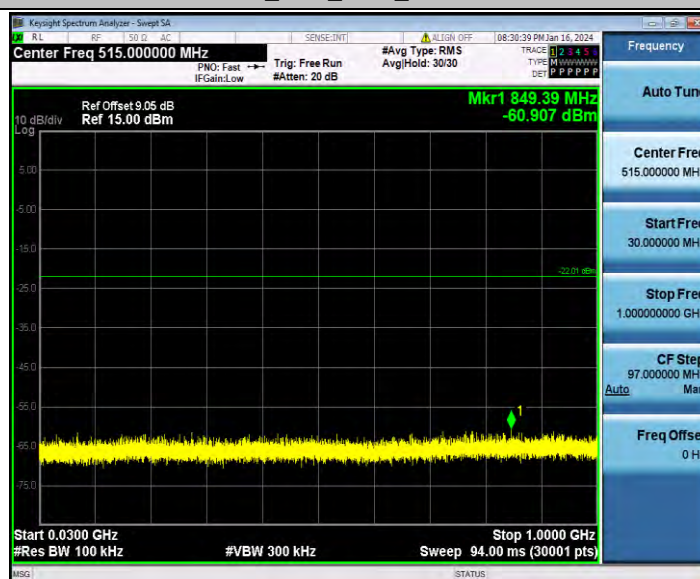




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



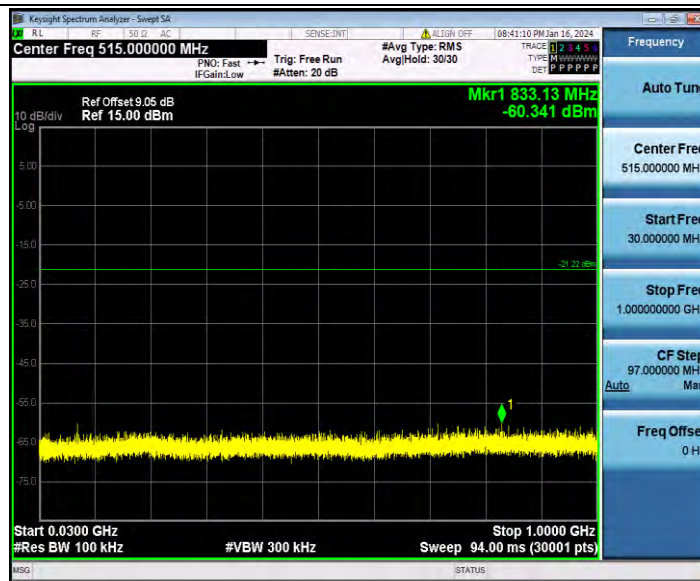
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

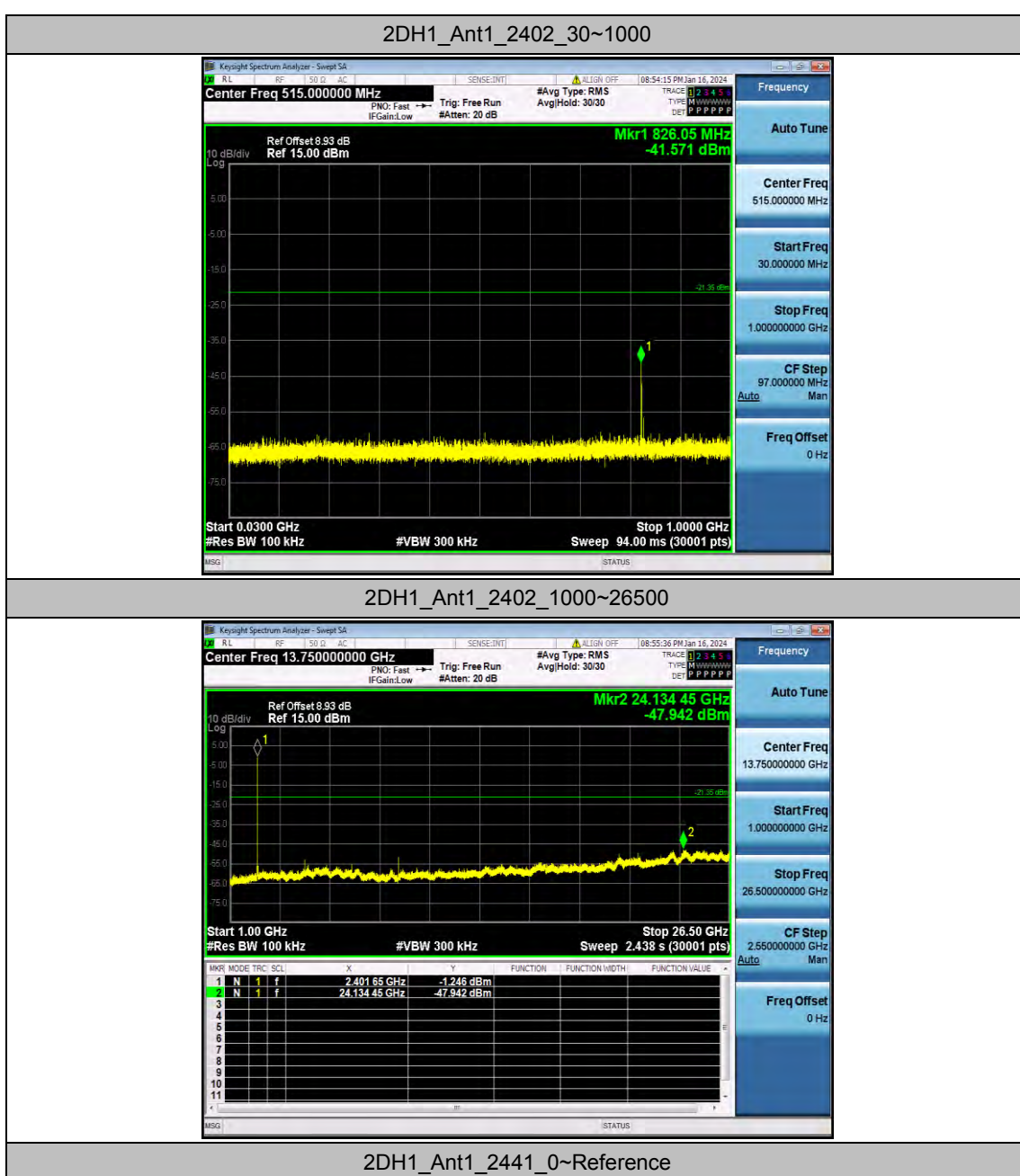


DH1_Ant1_2480_1000~26500



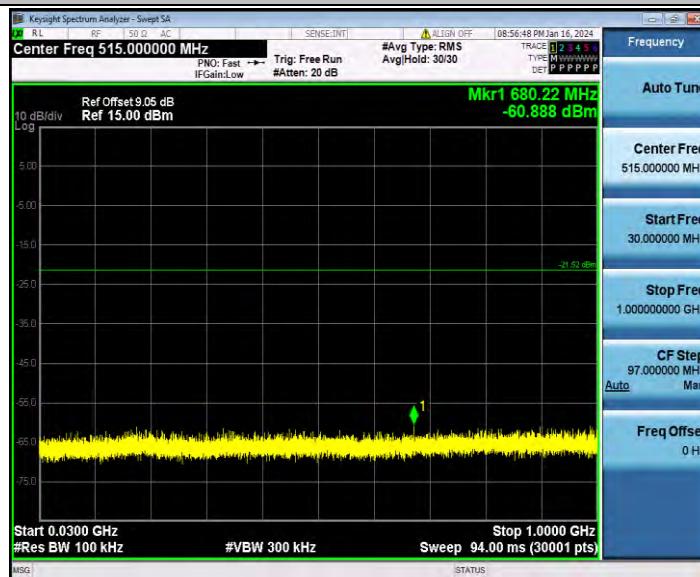
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



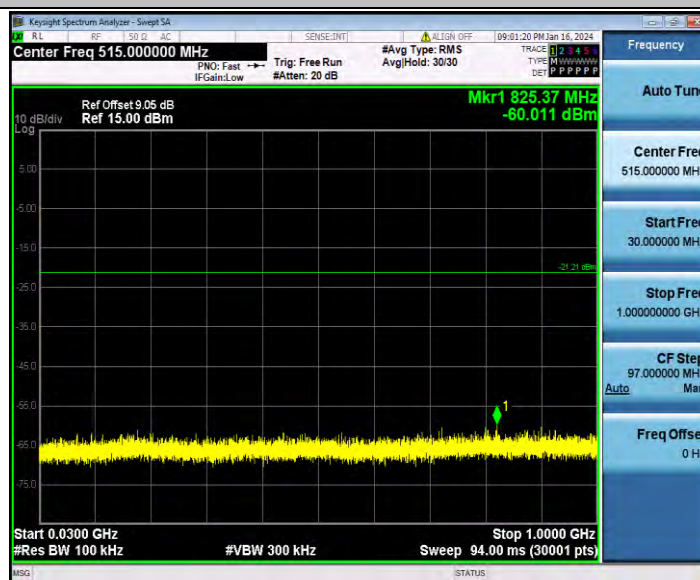
2DH1_Ant1_2441_1000~26500



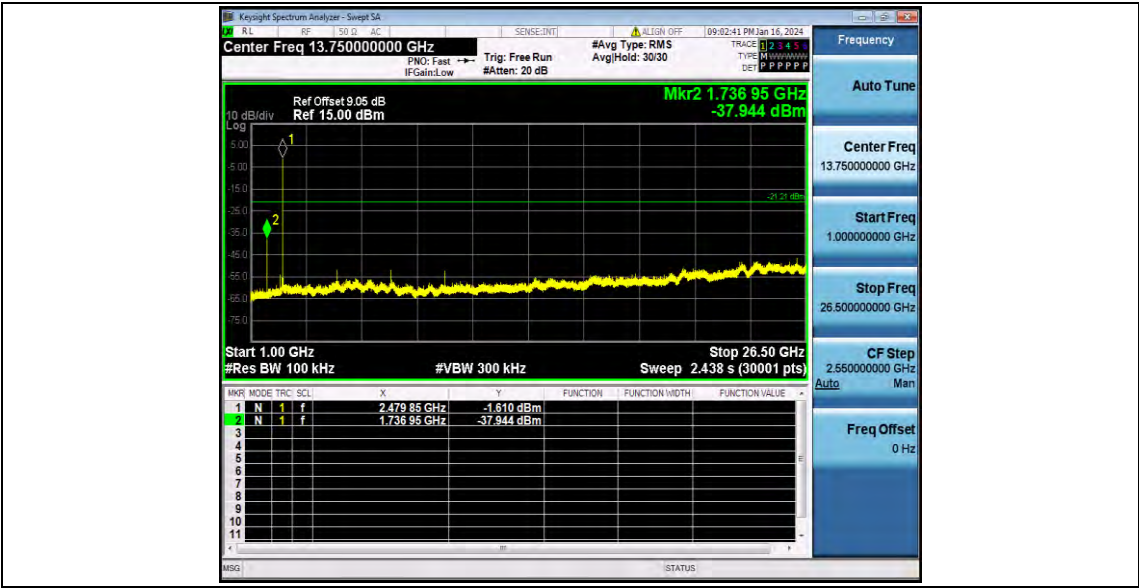
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500



Appendix A.9: Emissions in Restricted Bands

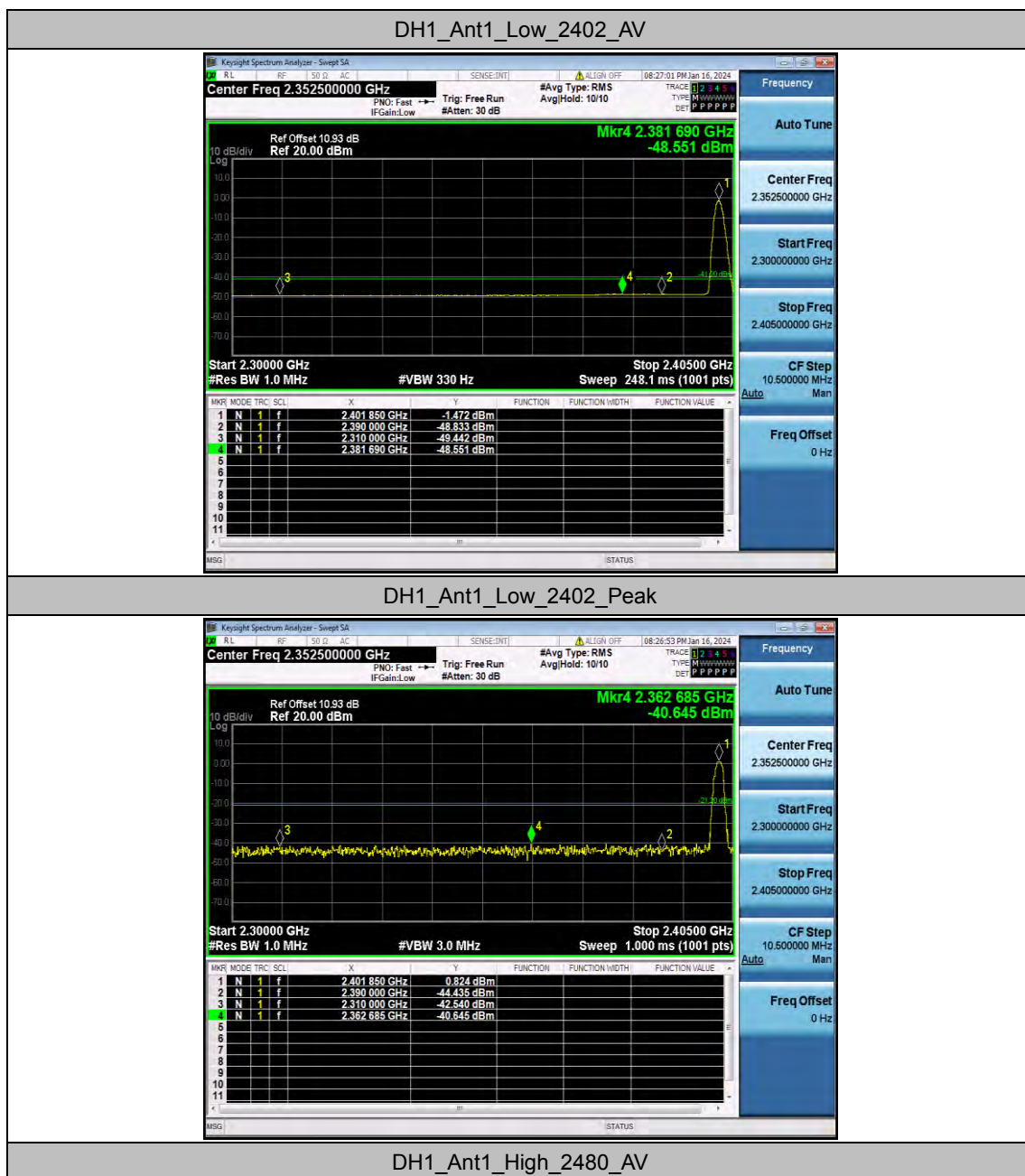
Test Result

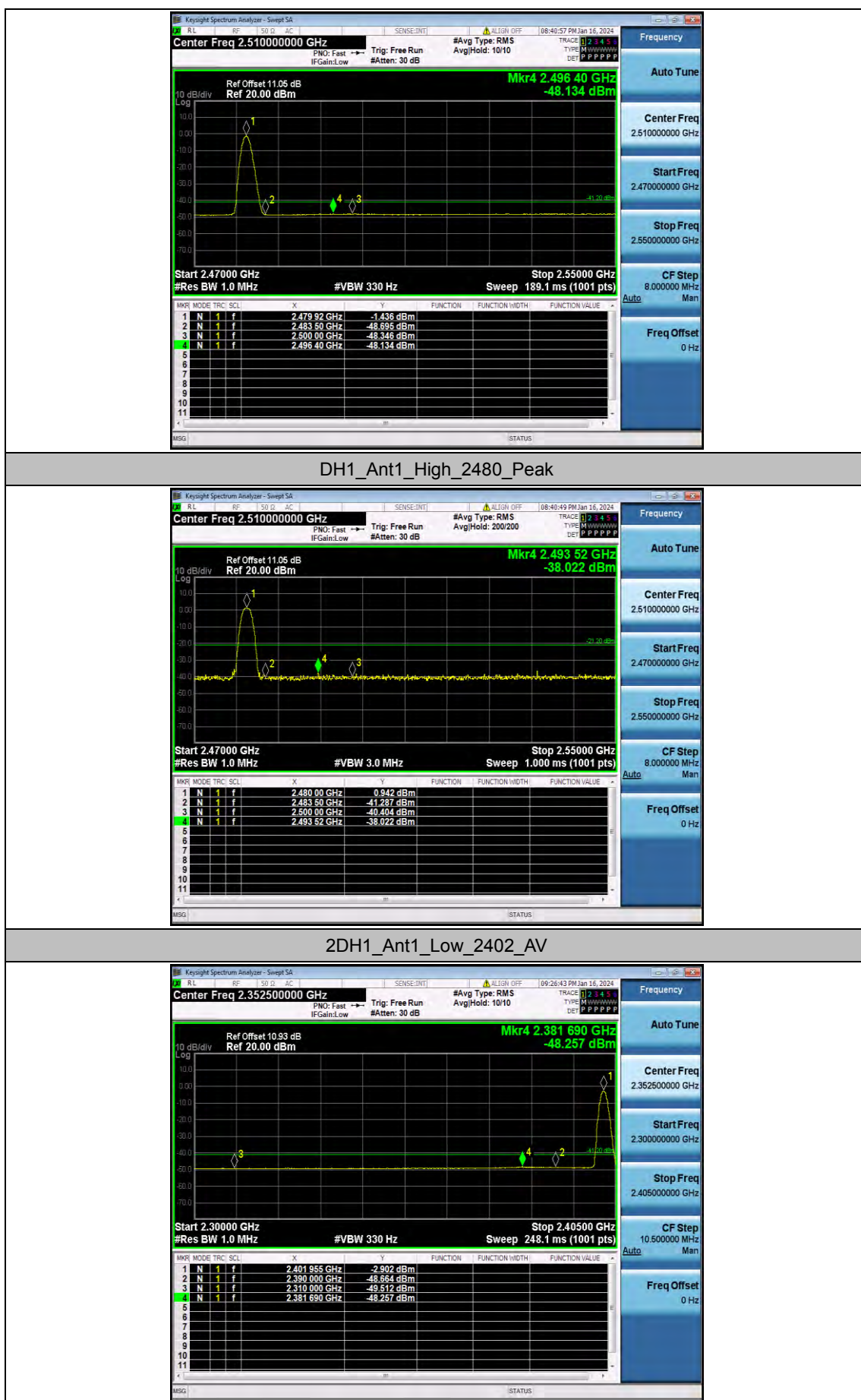
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2381.690	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2390.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2310.000	-42.54	≤-21.20	52.66	≤74	PASS
				Peak	2362.685	-40.64	≤-21.20	54.56	≤74	PASS
				Peak	2390.000	-44.44	≤-21.20	50.76	≤74	PASS
		High	2480	AV	2483.500	-48.7	≤-41.20	46.50	≤54	PASS
				AV	2496.400	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2500.000	-48.35	≤-41.20	46.85	≤54	PASS
				Peak	2483.500	-41.29	≤-21.20	53.91	≤74	PASS
				Peak	2493.520	-38.02	≤-21.20	57.18	≤74	PASS
				Peak	2500.000	-40.4	≤-21.20	54.80	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.51	≤-41.20	45.69	≤54	PASS
				AV	2381.690	-48.26	≤-41.20	46.94	≤54	PASS
				AV	2390.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2310.000	-41.81	≤-21.20	53.39	≤74	PASS
				Peak	2341.265	-38.84	≤-21.20	56.36	≤74	PASS
				Peak	2390.000	-40.48	≤-21.20	54.72	≤74	PASS
		High	2480	AV	2483.500	-48.54	≤-41.20	46.66	≤54	PASS
				AV	2497.120	-48.06	≤-41.20	47.14	≤54	PASS
				AV	2500.000	-48.14	≤-41.20	47.06	≤54	PASS
				Peak	2483.500	-41.22	≤-21.20	53.98	≤74	PASS
				Peak	2497.520	-38.68	≤-21.20	56.52	≤74	PASS
				Peak	2500.000	-40.44	≤-21.20	54.76	≤74	PASS

Note:

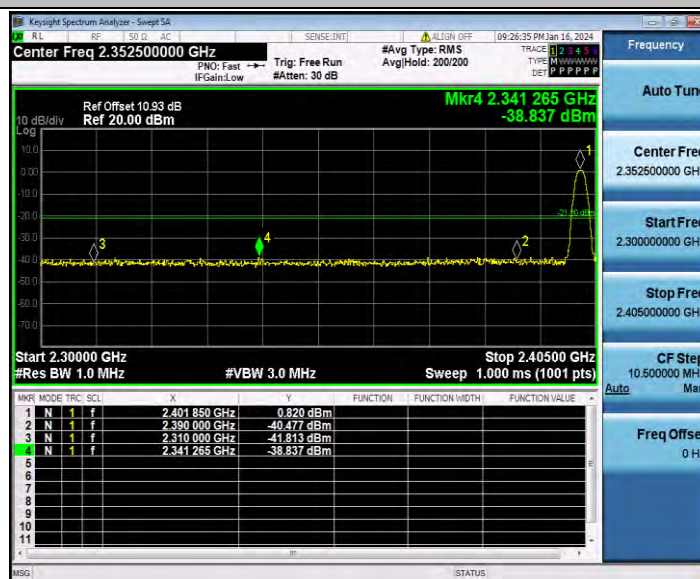
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

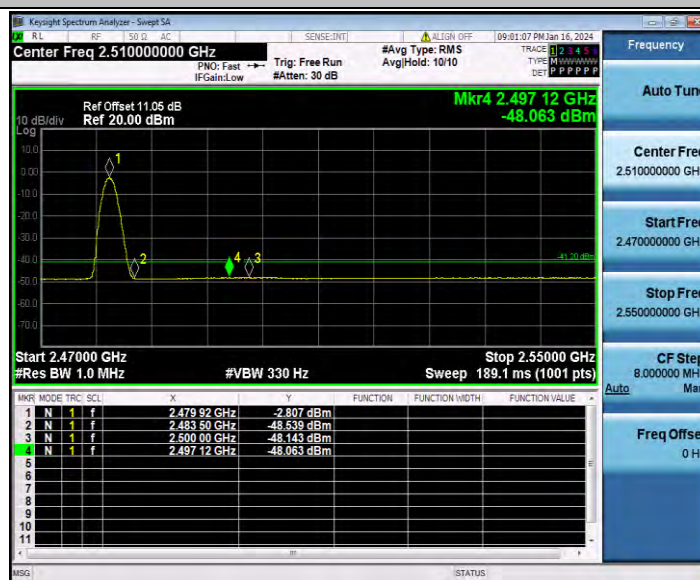




2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak

