

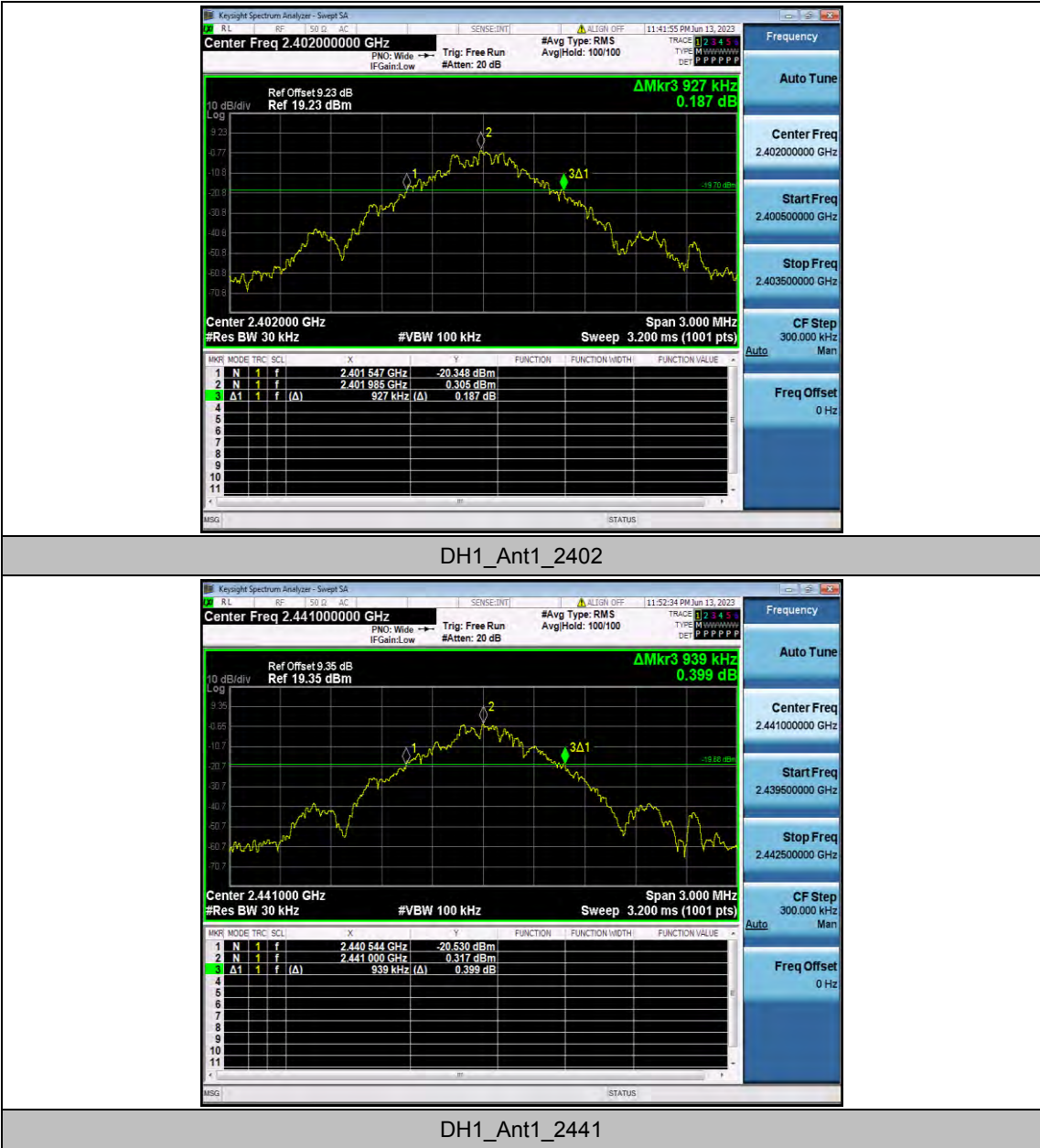
Case No. : <u>GTS20230525016-1-19</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.6.13</u>	Test Engineer: <u>Jenny zeng</u>

Appendix A.1: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.927	2401.547	2402.474	---	---
		2441	0.939	2440.544	2441.483	---	---
		2480	0.861	2479.556	2480.417	---	---
2DH1	Ant1	2402	1.428	2401.271	2402.699	---	---
		2441	1.425	2440.271	2441.696	---	---
		2480	1.440	2479.256	2480.696	---	---
3DH1	Ant1	2402	1.449	2401.268	2402.717	---	---
		2441	1.452	2440.274	2441.726	---	---
		2480	1.473	2479.262	2480.735	---	---

Test Graphs





DH1_Ant1_2480



2DH1_Ant1_2402



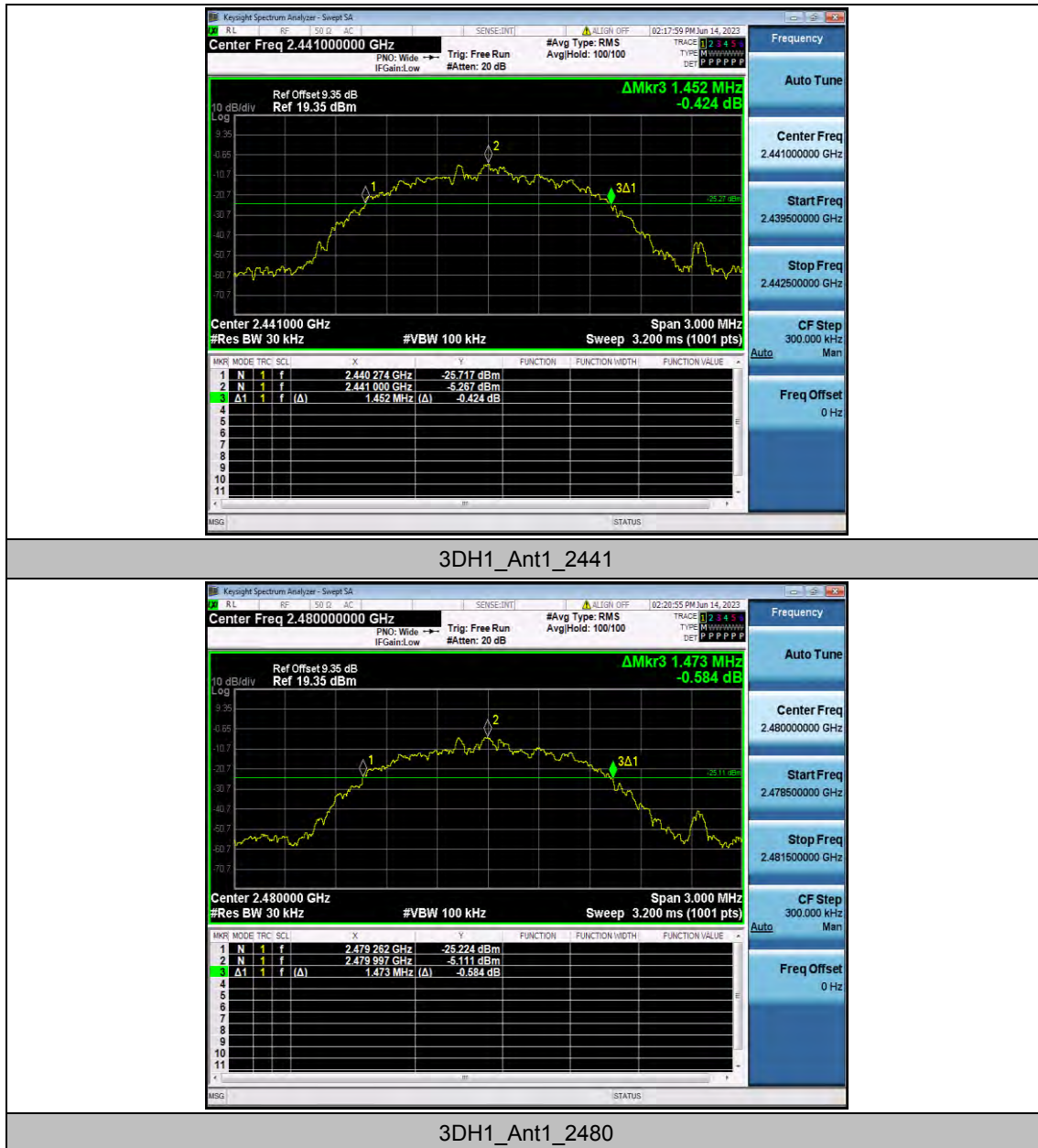
2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402

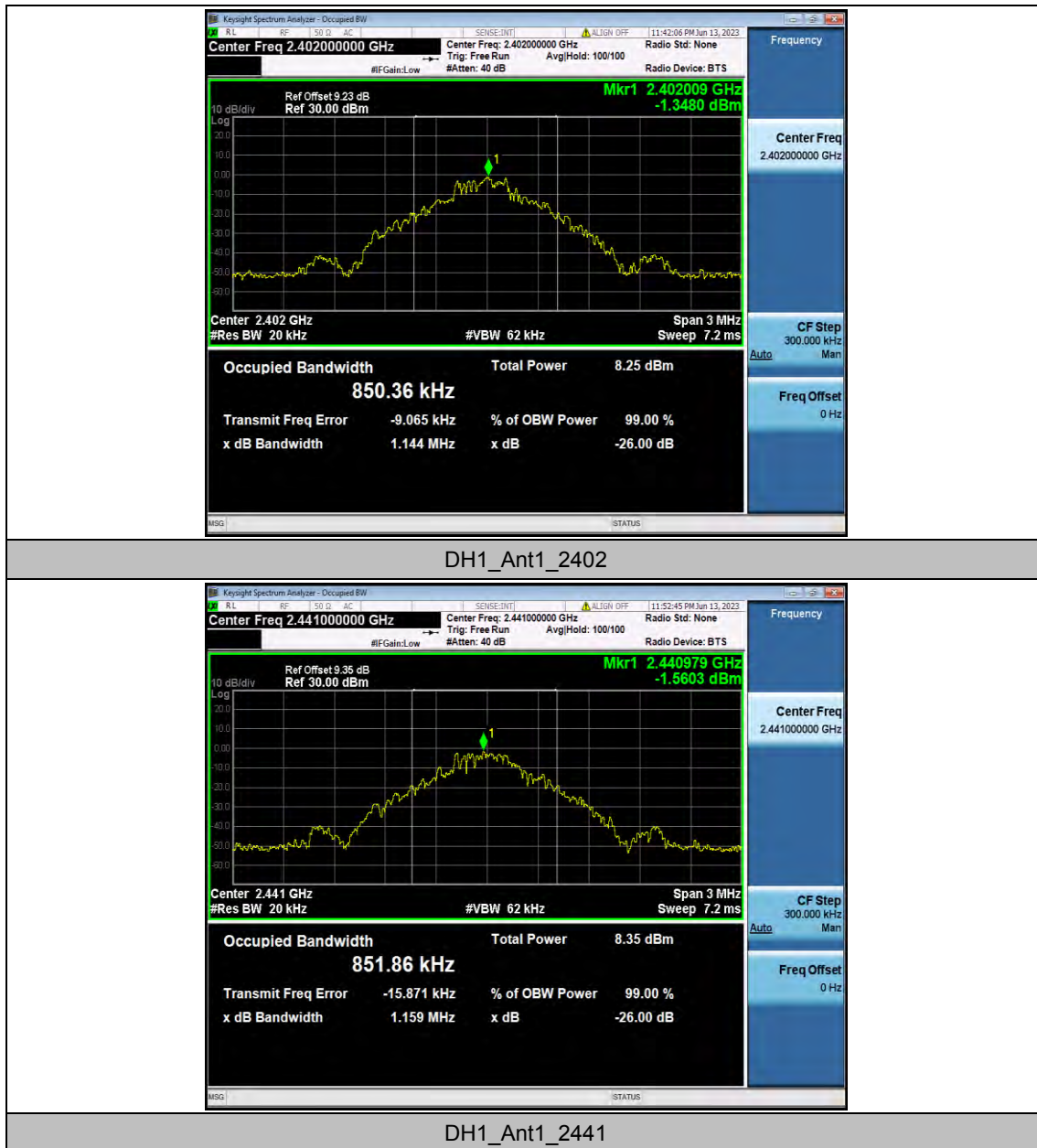


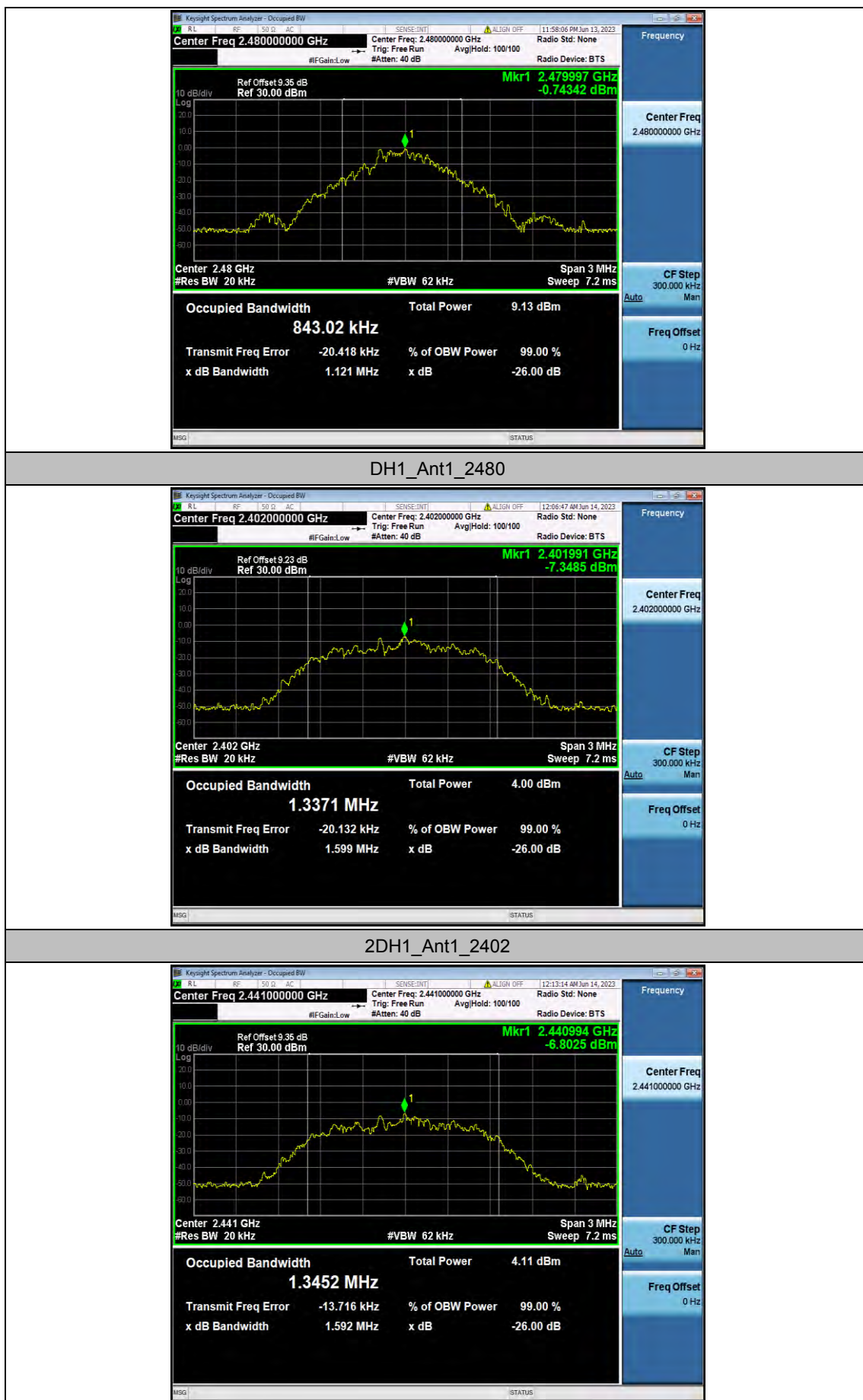
Appendix A.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.85036	2401.566	2402.416	---	---
		2441	0.85186	2440.558	2441.410	---	---
		2480	0.84302	2479.558	2480.401	---	---
2DH1	Ant1	2402	1.3371	2401.311	2402.648	---	---
		2441	1.3452	2440.314	2441.659	---	---
		2480	1.3419	2479.313	2480.655	---	---
3DH1	Ant1	2402	1.3380	2401.322	2402.660	---	---
		2441	1.3407	2440.324	2441.665	---	---
		2480	1.3400	2479.320	2480.660	---	---

Test Graphs





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	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	3.21	≤20.97	PASS
		2441	3.71	≤20.97	PASS
		2480	3.96	≤20.97	PASS
2DH1	Ant1	2402	-0.41	≤20.97	PASS
		2441	-0.2	≤20.97	PASS
		2480	0.31	≤20.97	PASS
3DH1	Ant1	2402	-0.54	≤20.97	PASS
		2441	-0.17	≤20.97	PASS
		2480	0.66	≤20.97	PASS

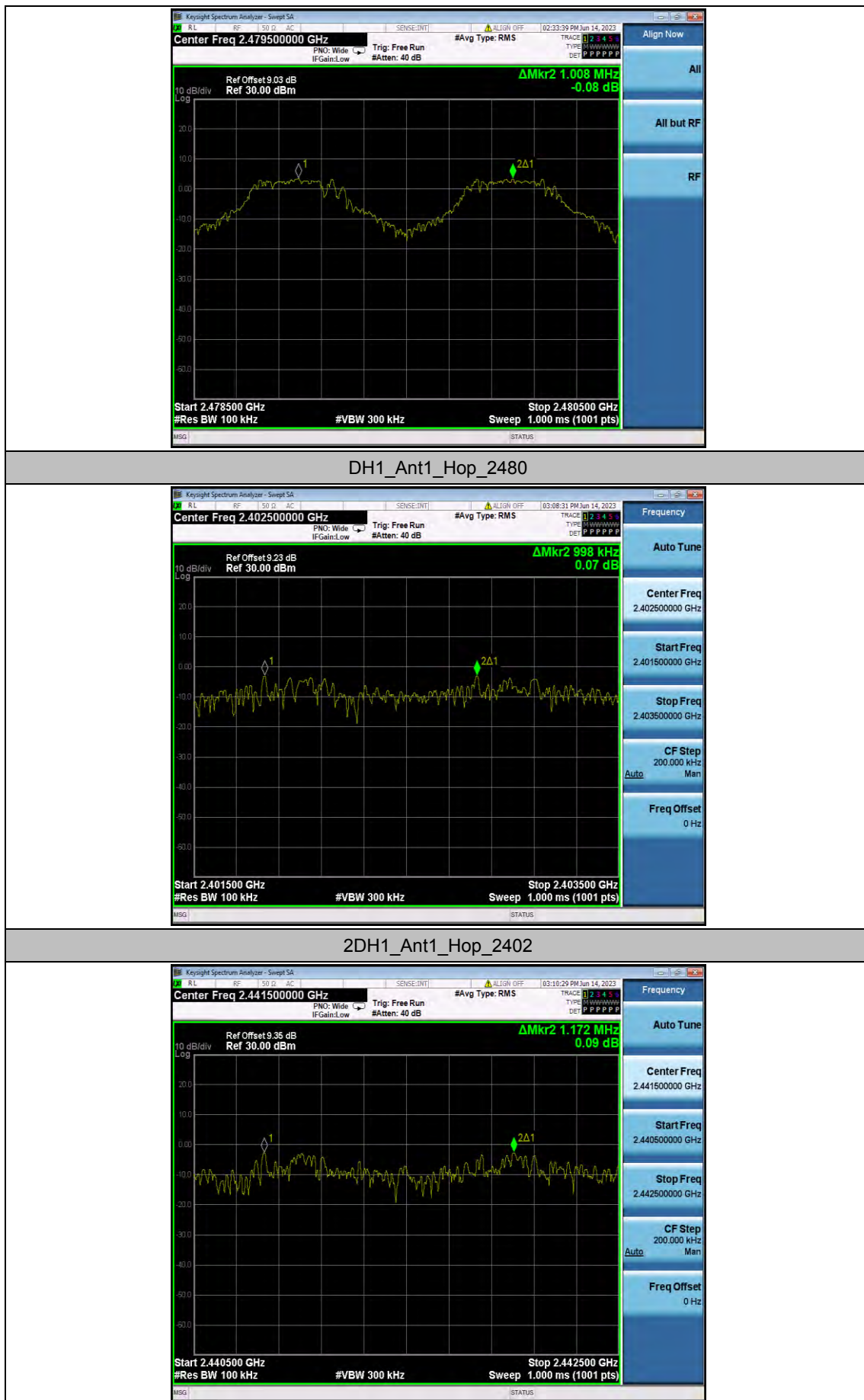
Appendix A.4: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.854	≥ 0.626	PASS
		Hop_2441	1	≥ 0.626	PASS
		Hop_2480	1.008	≥ 0.626	PASS
2DH1	Ant1	Hop_2402	0.998	≥ 0.960	PASS
		Hop_2441	1.172	≥ 0.960	PASS
		Hop_2480	0.992	≥ 0.960	PASS
3DH1	Ant1	Hop_2402	1.162	≥ 0.982	PASS
		Hop_2441	0.986	≥ 0.982	PASS
		Hop_2480	0.998	≥ 0.982	PASS

Test Graphs





2DH1_Ant1_Hop_2441



2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441



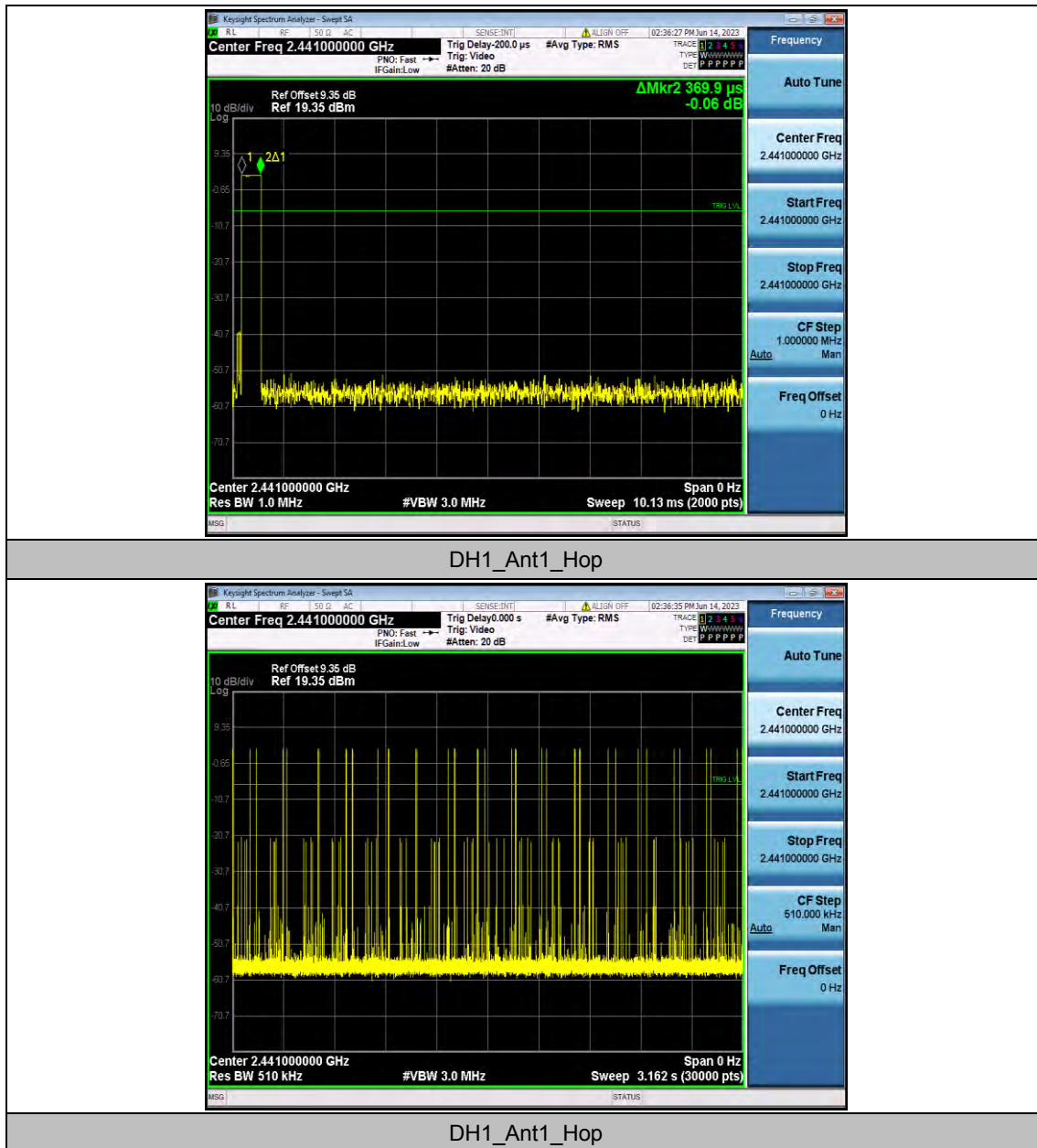
3DH1_Ant1_Hop_2480

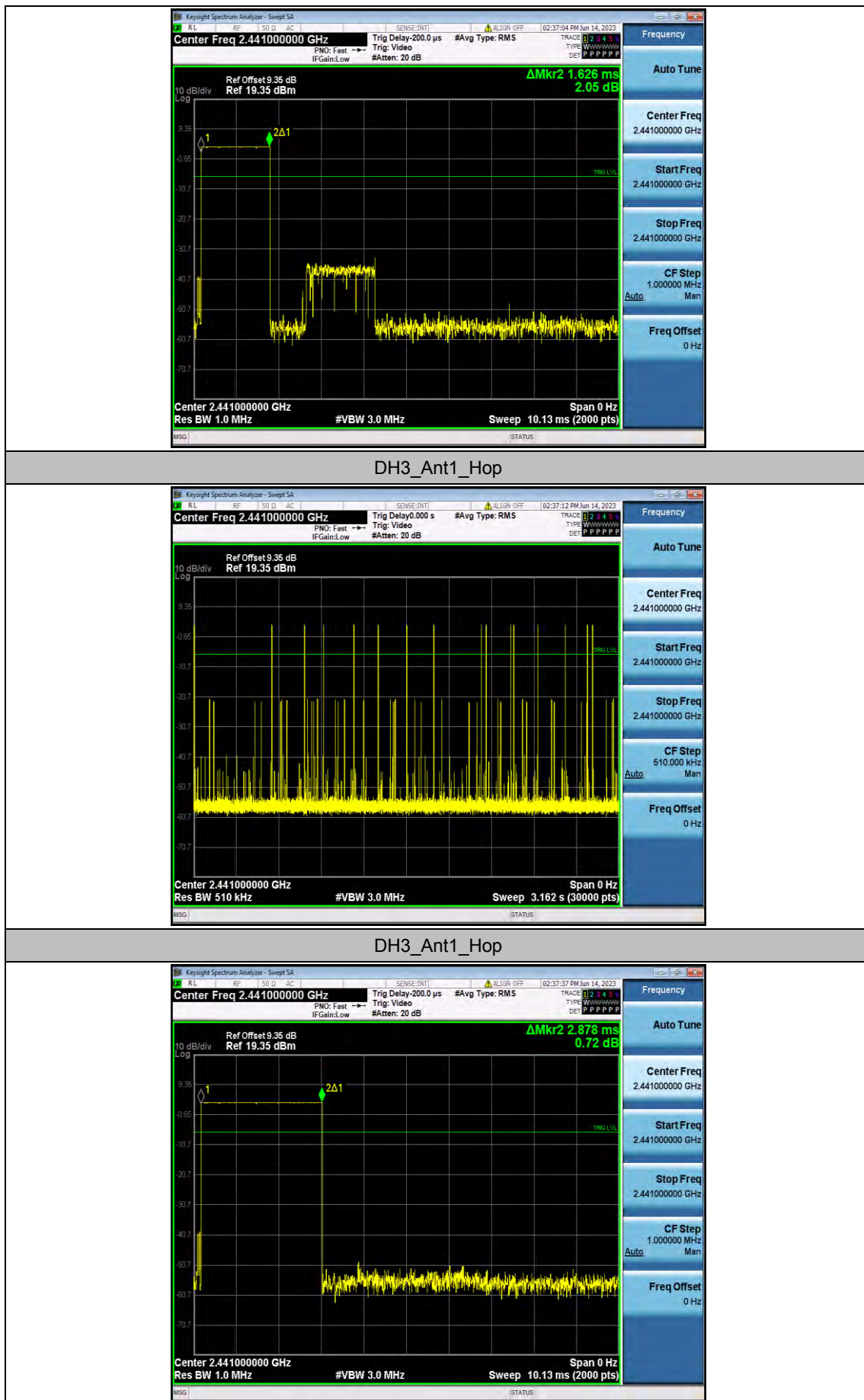
Appendix A.5: Time of occupancy

Test Result

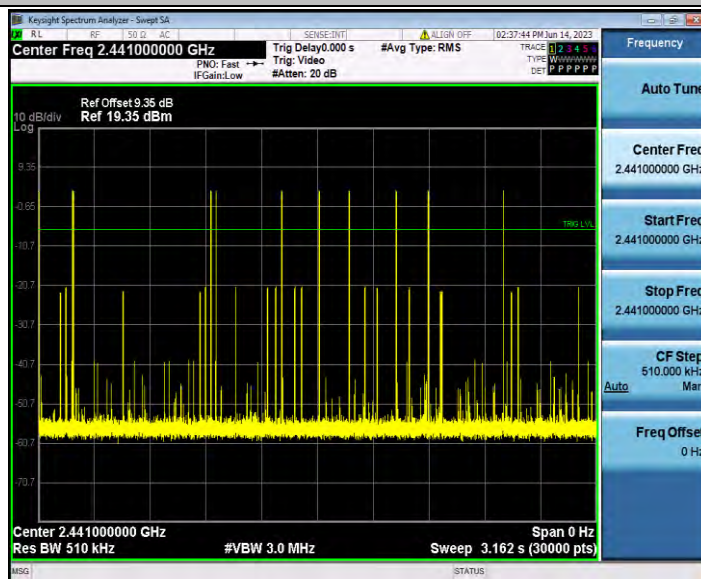
Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.63	170	0.276	≤0.4	PASS
DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.64	170	0.278	≤0.4	PASS
2DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS
3DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS

Test Graphs

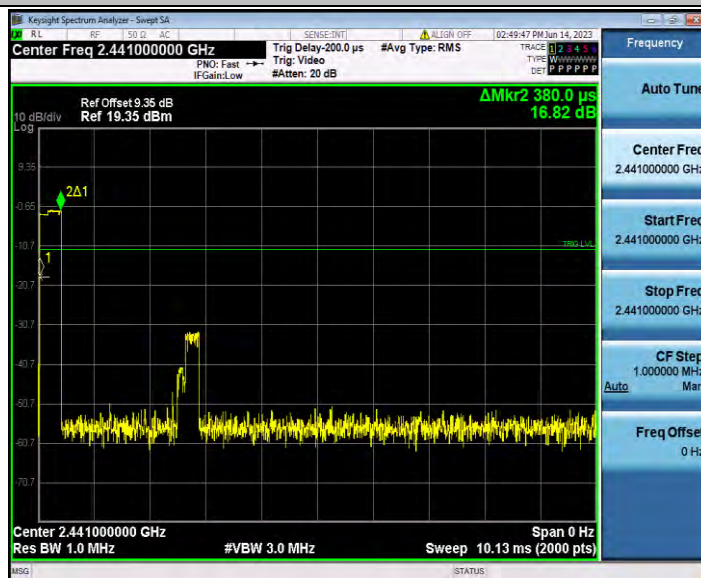




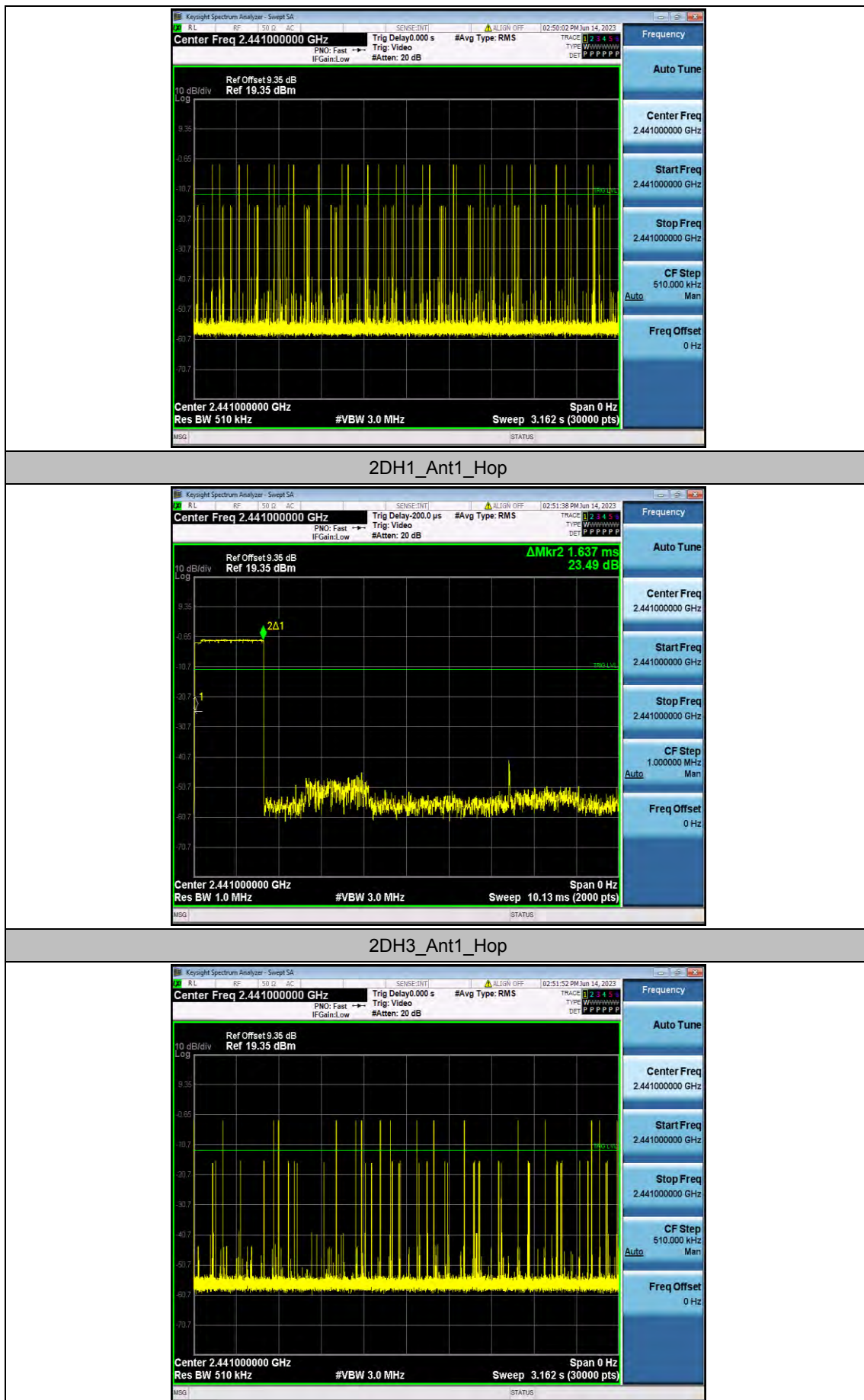
DH5_Ant1_Hop



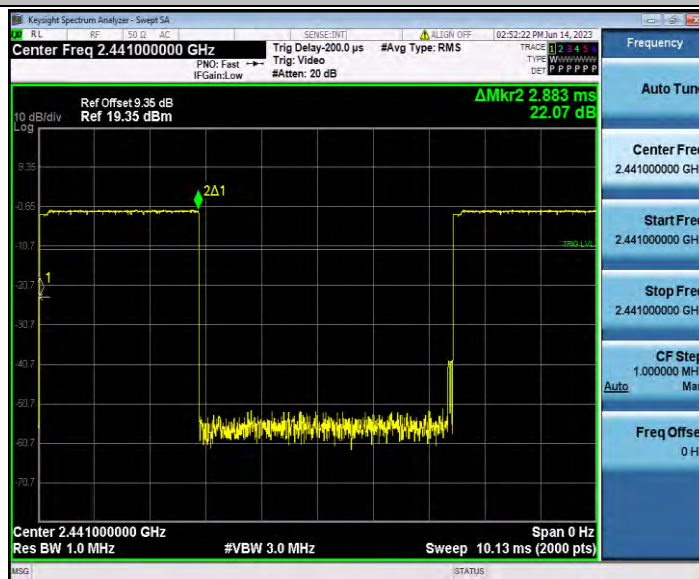
DH5_Ant1_Hop



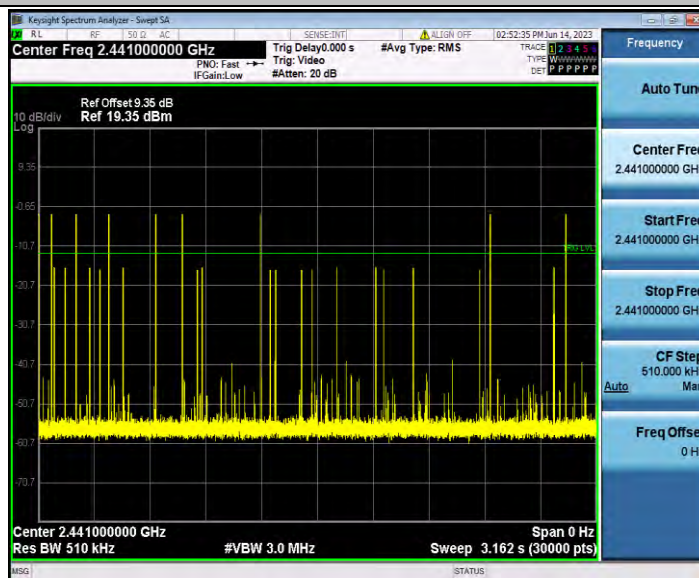
2DH1_Ant1_Hop



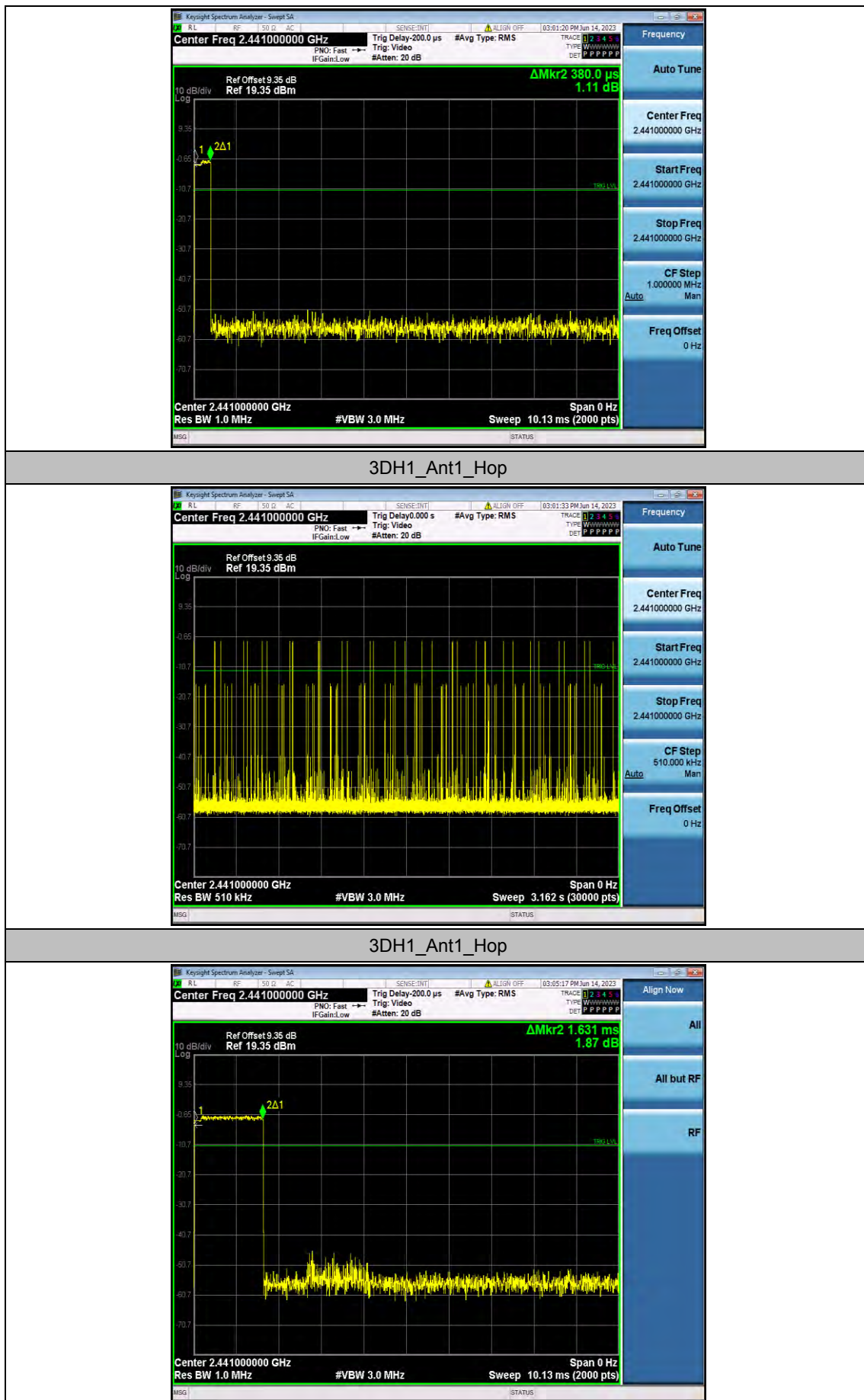
2DH3_Ant1_Hop



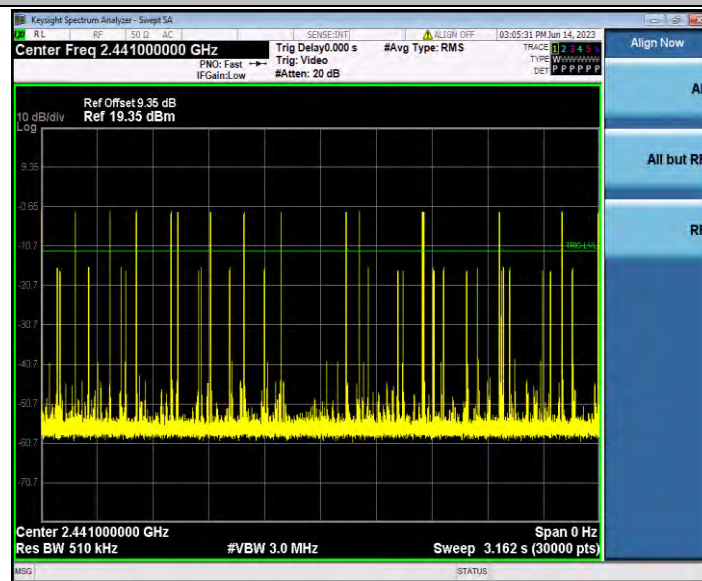
2DH5_Ant1_Hop



2DH5_Ant1_Hop



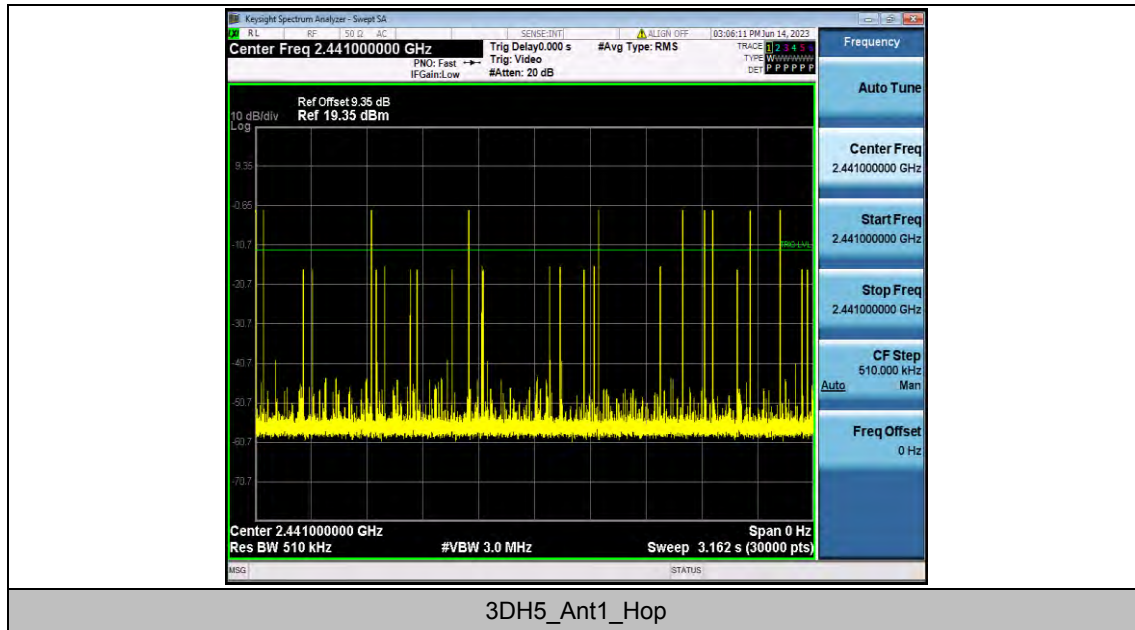
3DH3_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

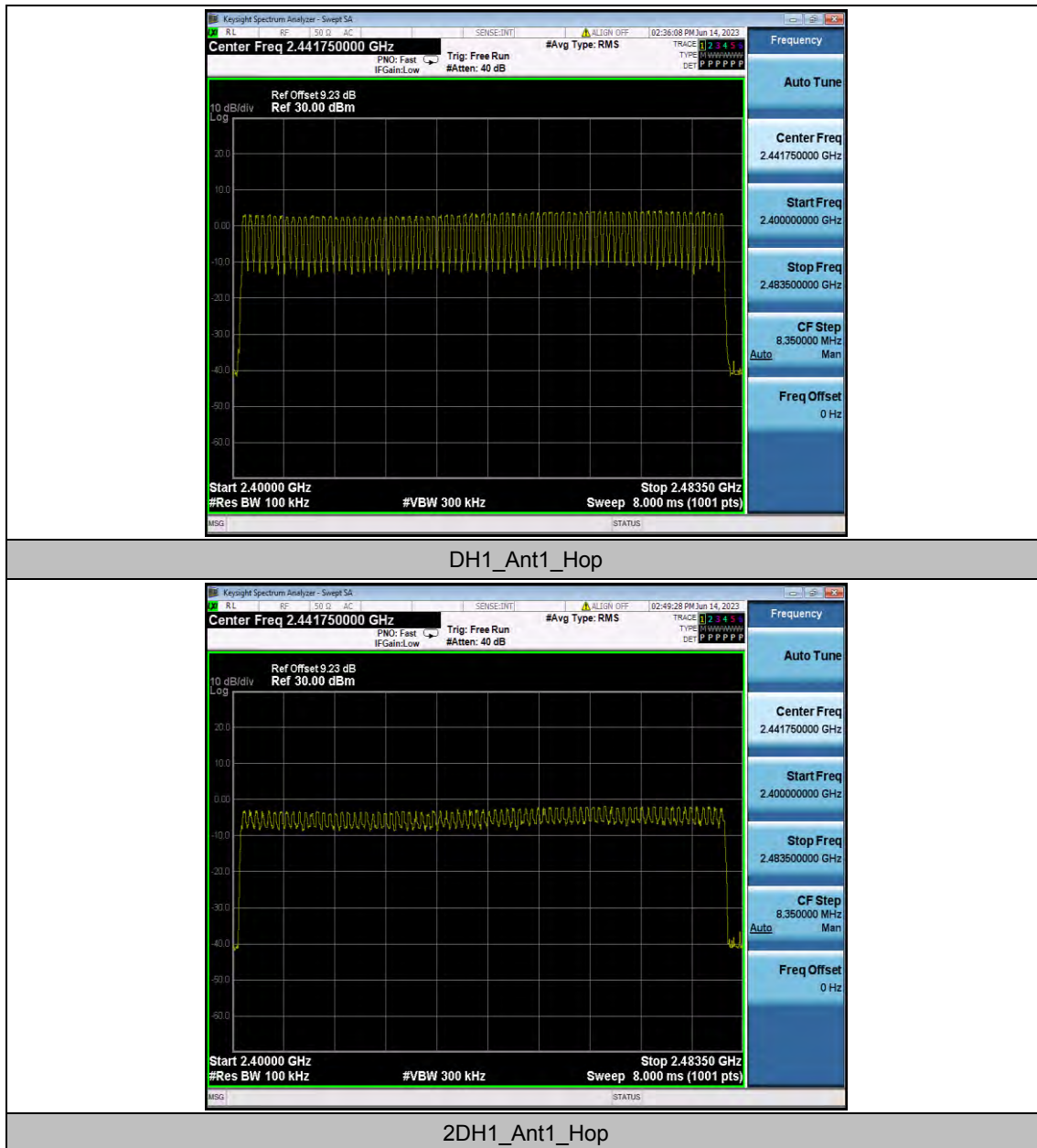


Appendix A.6: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[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

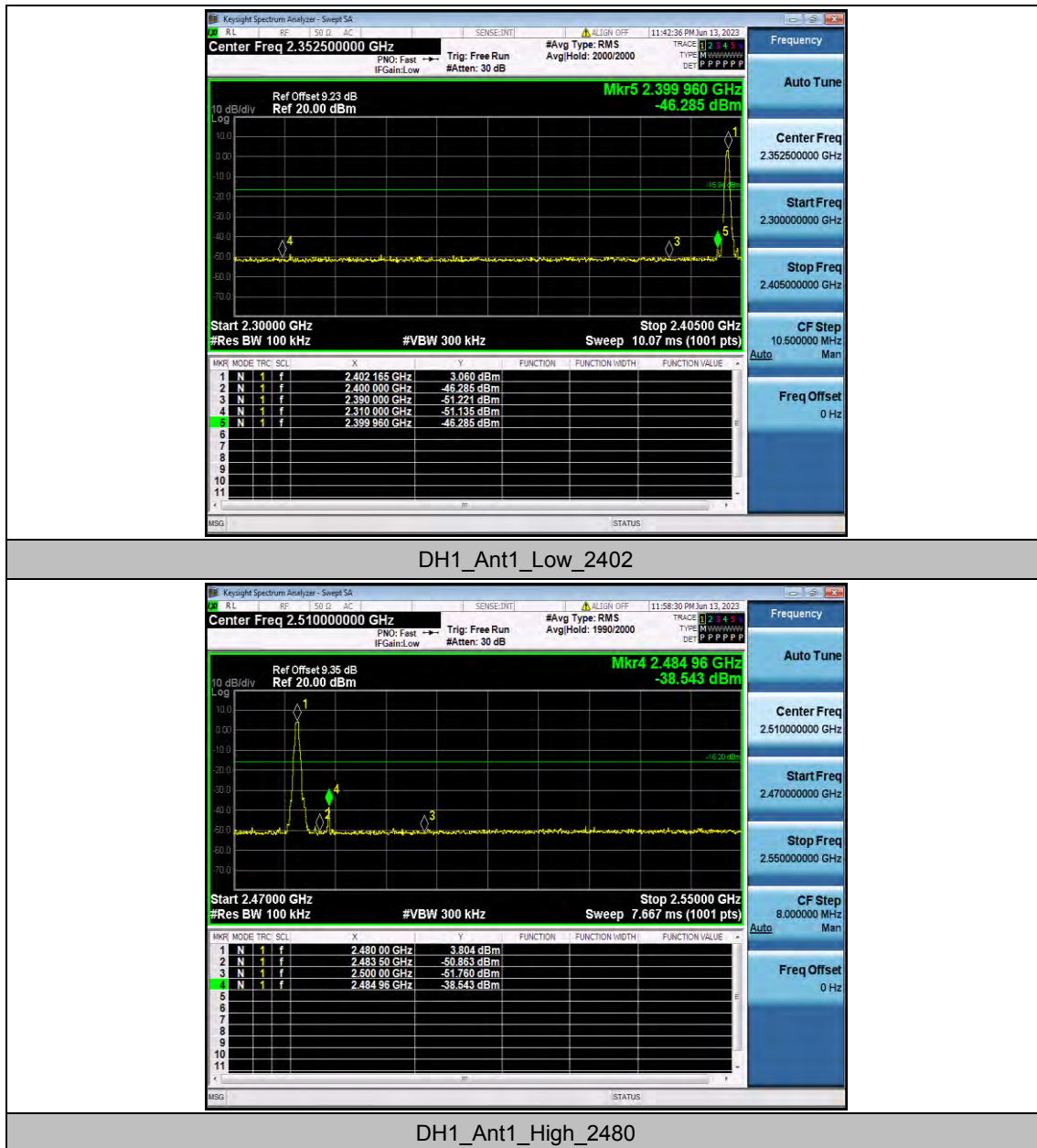


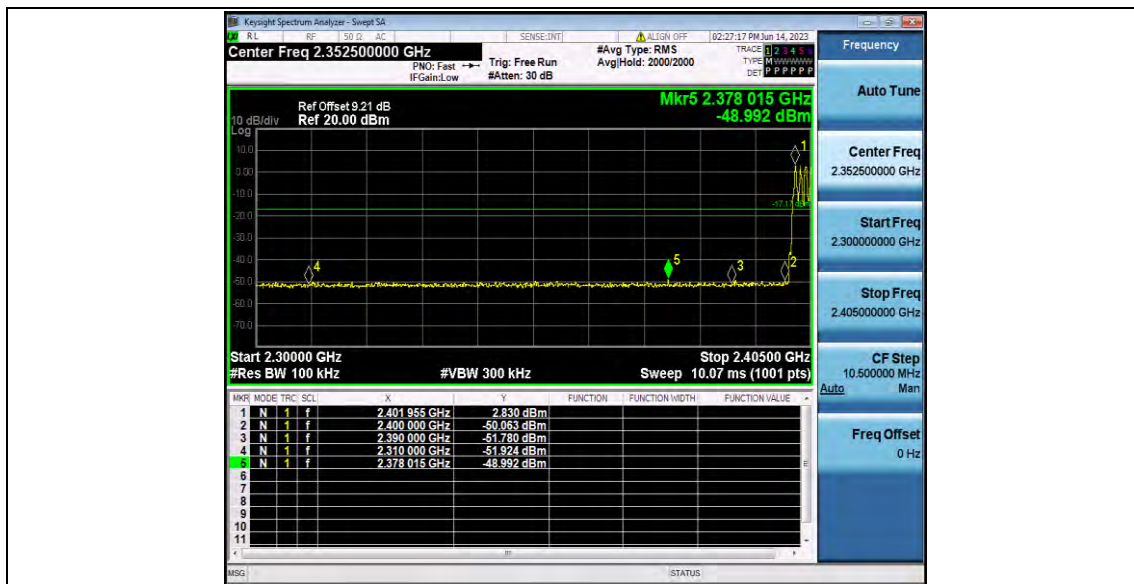
Appendix A.7: Band edge measurements

Test Result

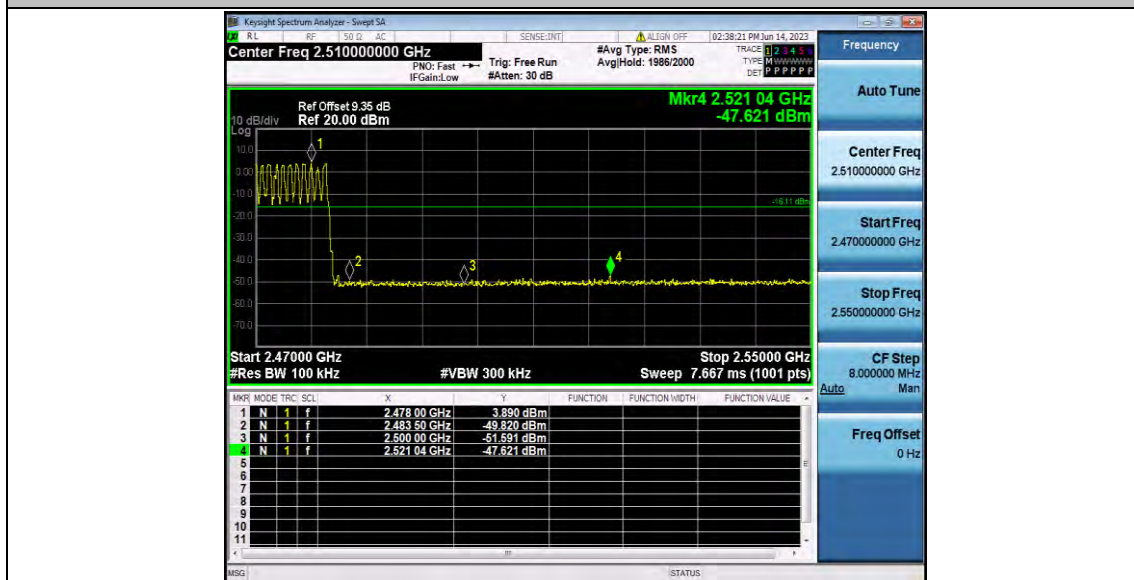
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	3.06	-46.29	≤ -16.94	PASS
		High	2480	3.80	-38.54	≤ -16.2	PASS
		Low	Hop_2402	2.83	-48.99	≤ -17.17	PASS
		High	Hop_2480	3.89	-47.62	≤ -16.11	PASS
2DH1	Ant1	Low	2402	-2.97	-48.1	≤ -22.97	PASS
		High	2480	-2.03	-38.12	≤ -22.03	PASS
		Low	Hop_2402	-3.13	-48.61	≤ -23.13	PASS
		High	Hop_2480	-2.49	-48.62	≤ -22.49	PASS
3DH1	Ant1	Low	2402	-3.09	-47.76	≤ -23.09	PASS
		High	2480	-2.34	-38.35	≤ -22.34	PASS
		Low	Hop_2402	-3.01	-49.36	≤ -23.01	PASS
		High	Hop_2480	-1.89	-48.71	≤ -21.89	PASS

Test Graphs

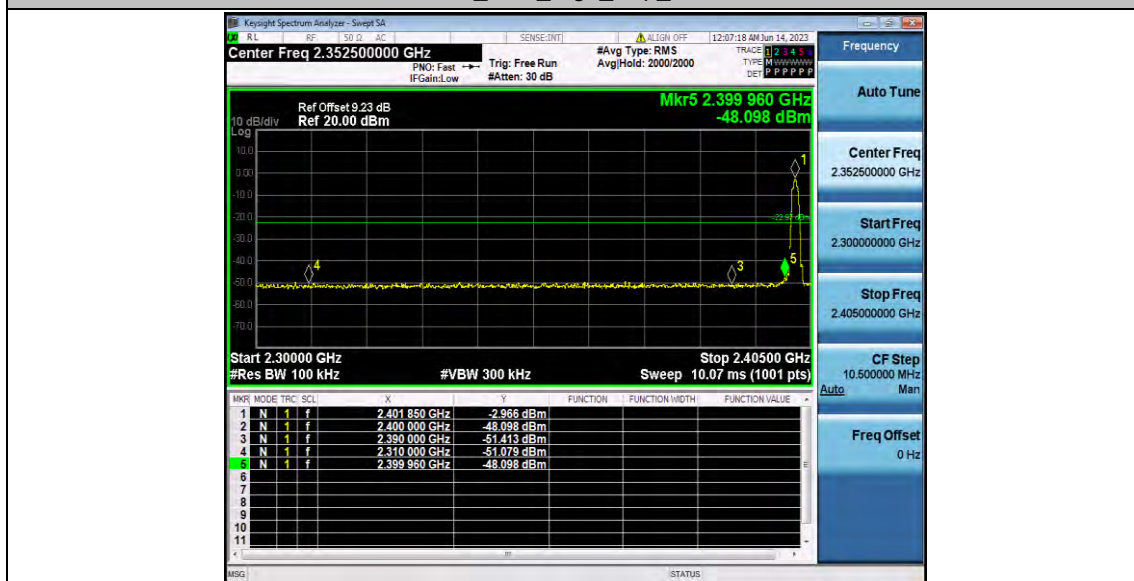




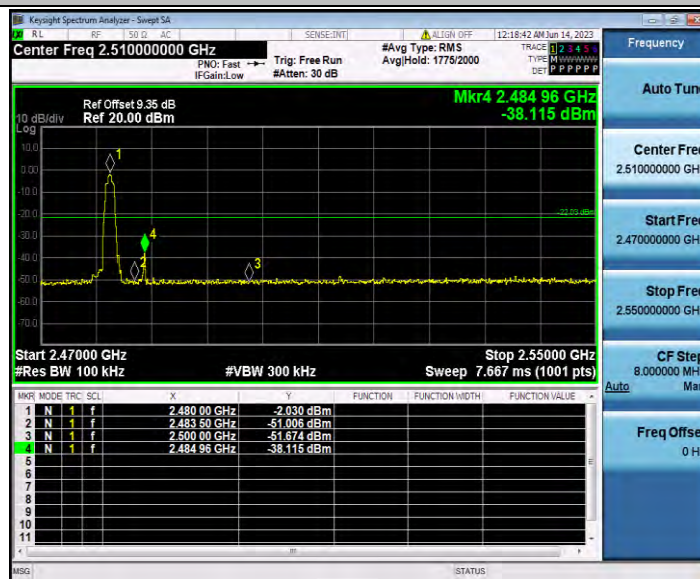
DH1_Ant1_Low_Hop_2402



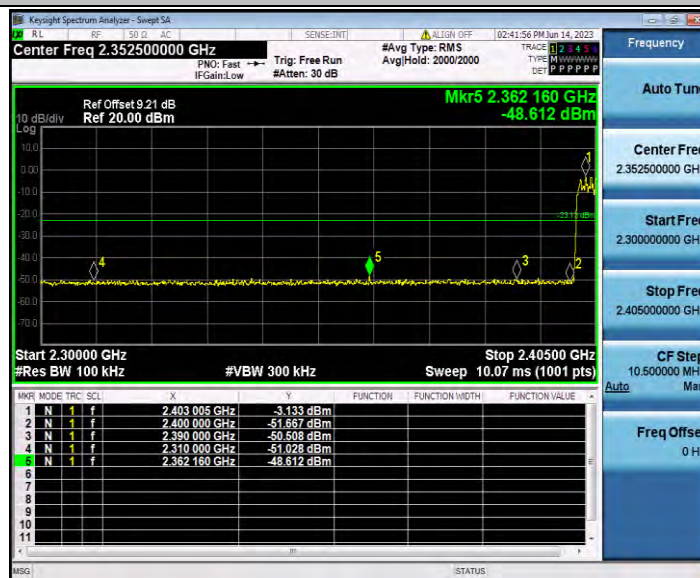
DH1_Ant1_High_Hop_2480



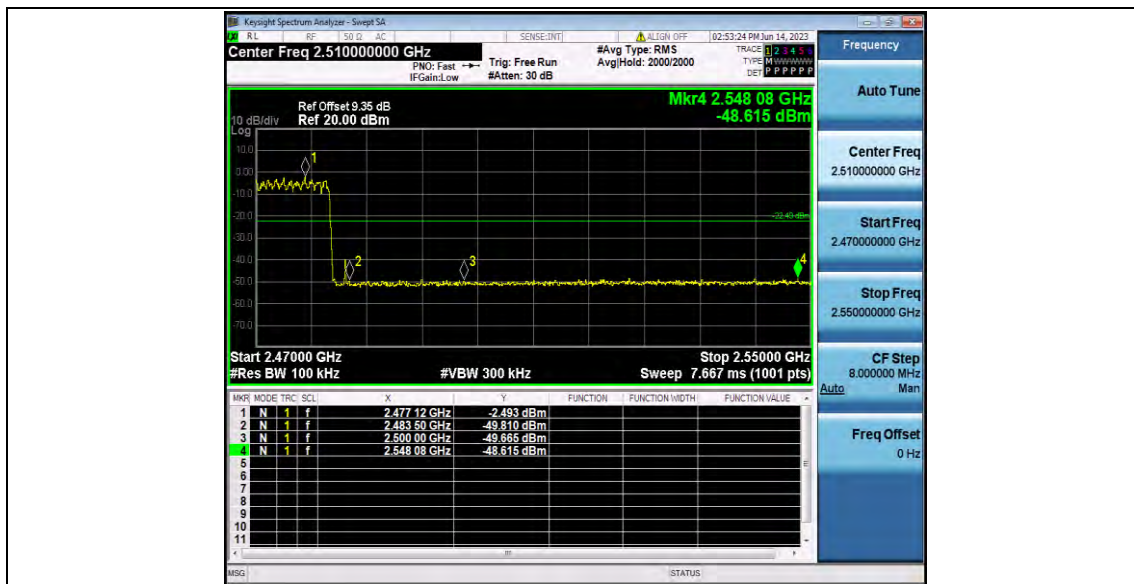
2DH1_Ant1_Low_2402



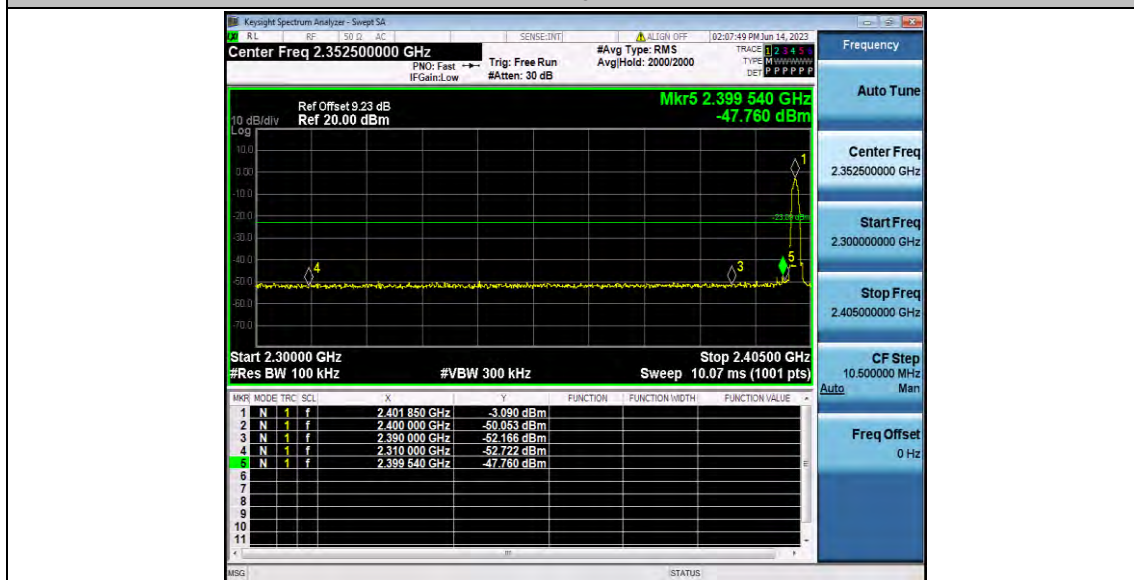
2DH1_Ant1_High_2480



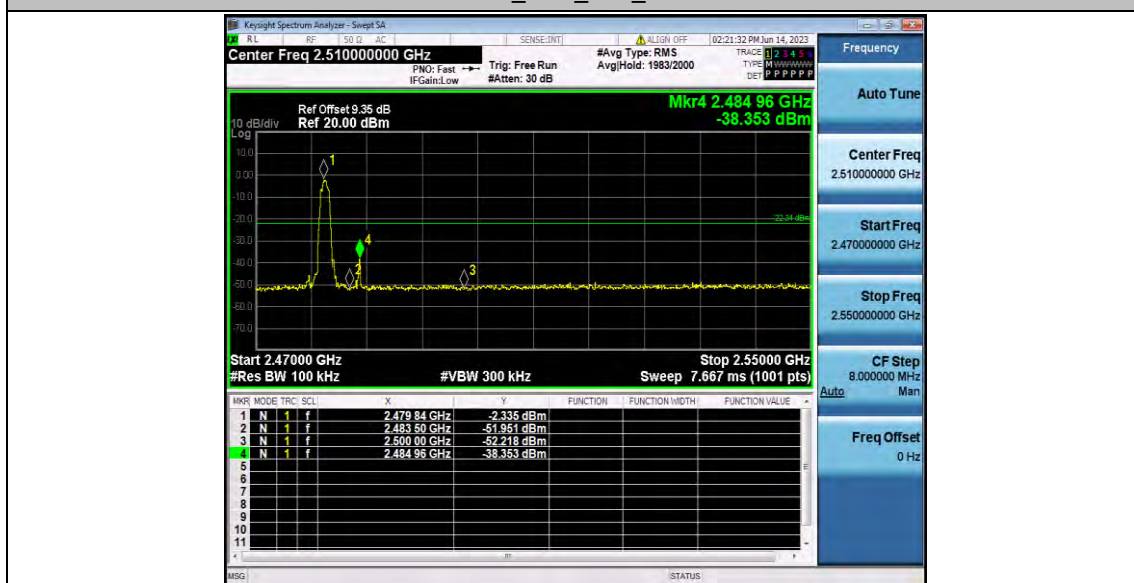
2DH1_Ant1_Low_Hop_2402



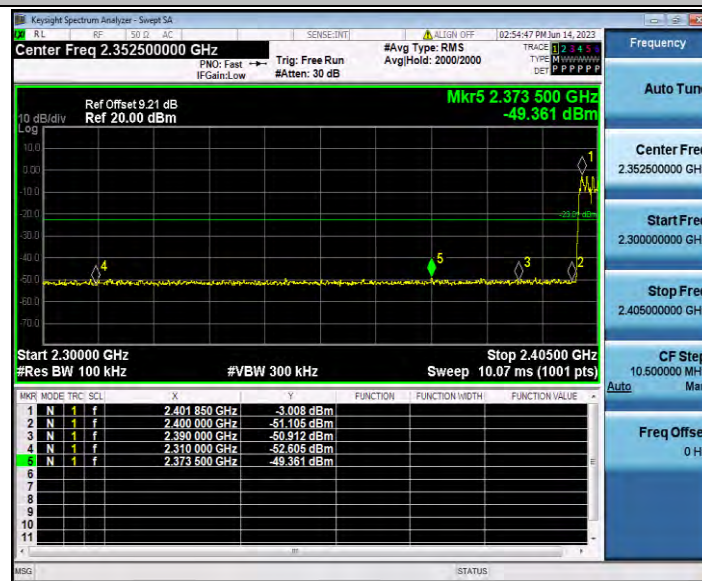
2DH1_Ant1_High_Hop_2480



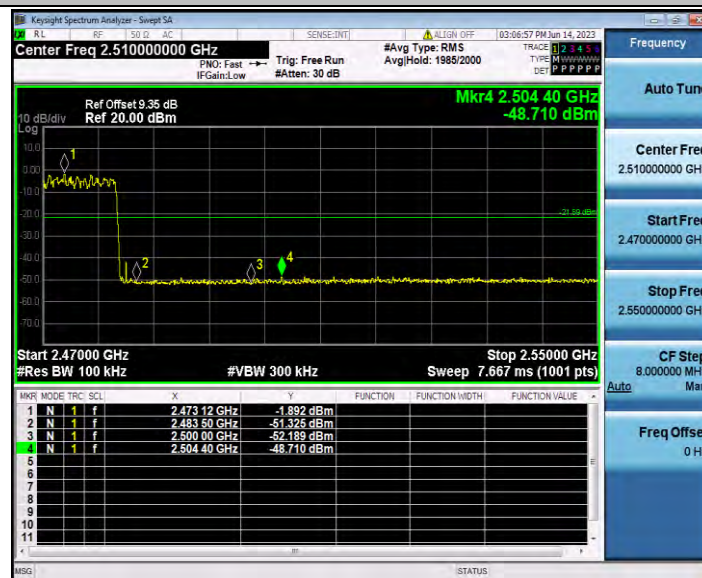
3DH1_Ant1_Low_2402



3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



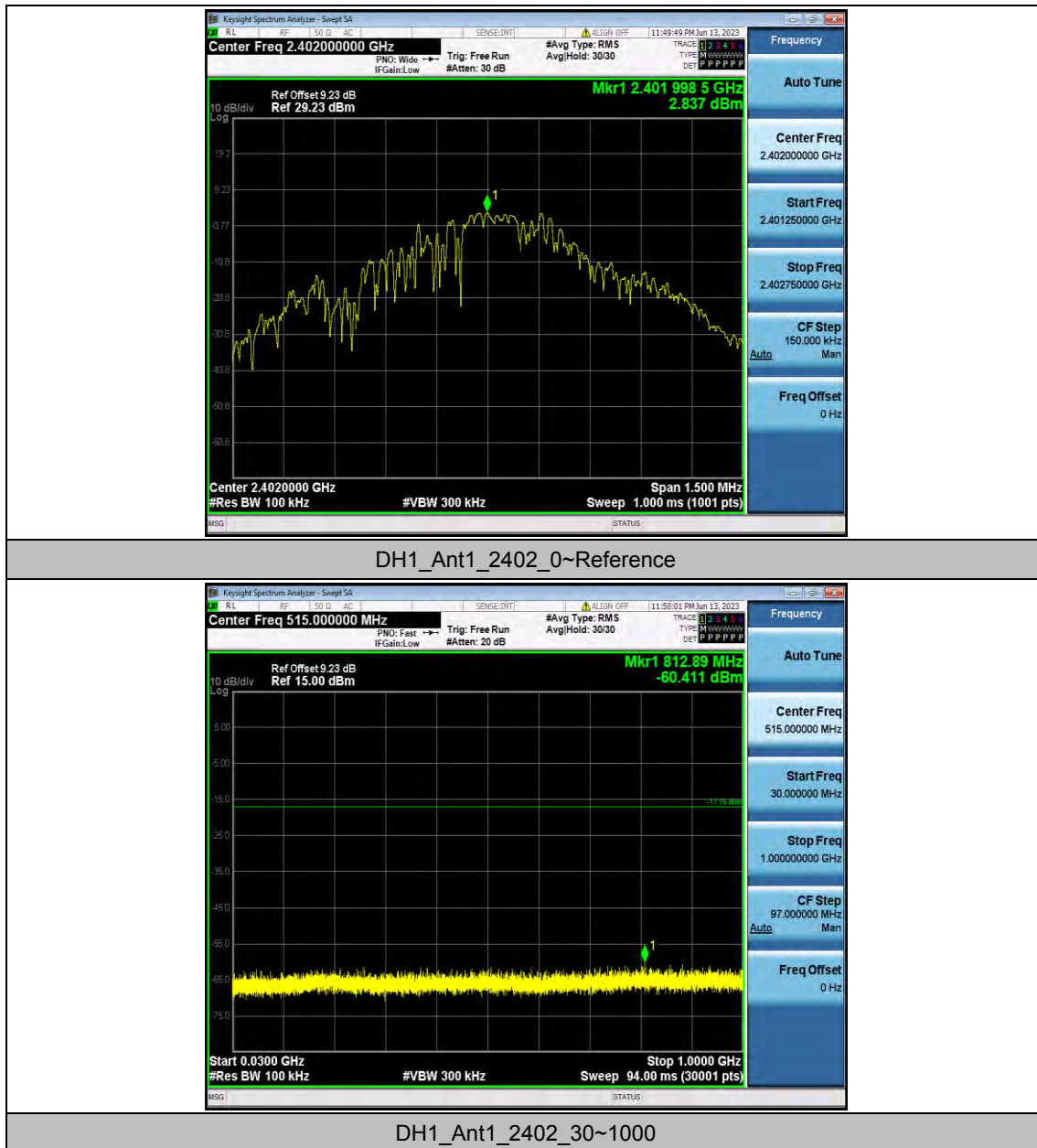
3DH1_Ant1_High_Hop_2480

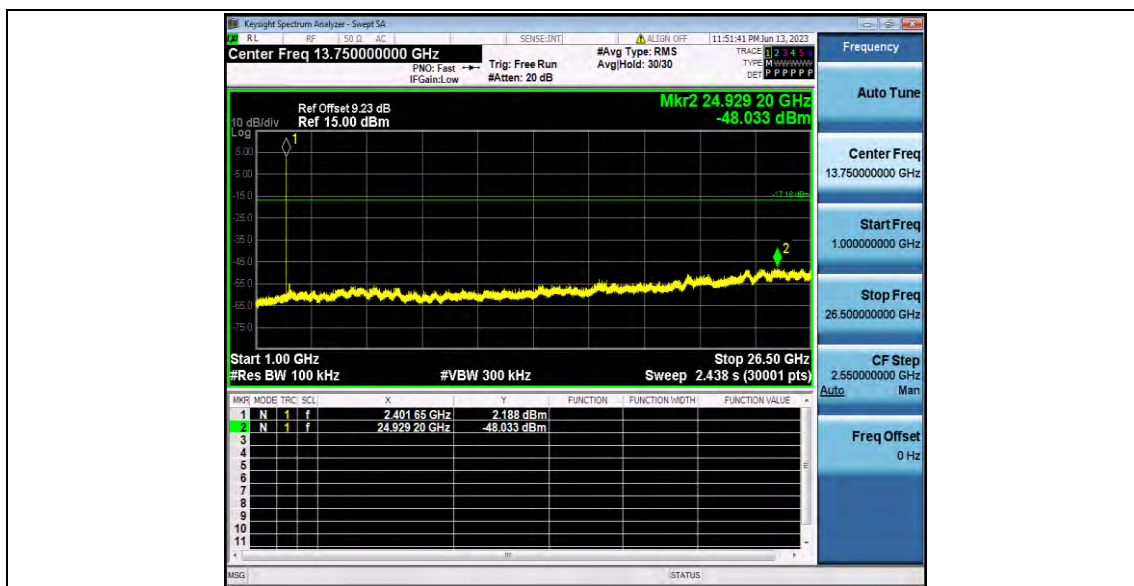
Appendix A.8: Conducted Spurious Emission

Test Result

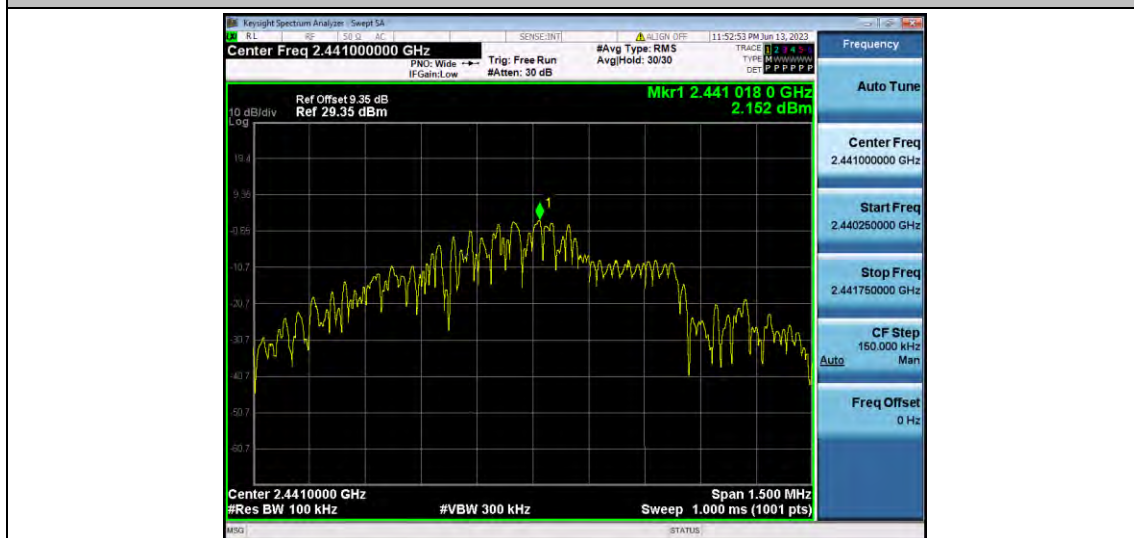
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-60.41	≤ -17.16	PASS
			1000~26500	2.84	-48.03	≤ -17.16	PASS
		2441	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-60.83	≤ -17.85	PASS
			1000~26500	2.15	-47.25	≤ -17.85	PASS
		2480	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-60.19	≤ -16.79	PASS
			1000~26500	3.21	-47.35	≤ -16.79	PASS
2DH1	Ant1	2402	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-60.49	≤ -23.24	PASS
			1000~26500	-3.24	-47.63	≤ -23.24	PASS
		2441	Reference	-2.80	-2.80	---	PASS
			30~1000	-2.80	-60.83	≤ -22.8	PASS
			1000~26500	-2.80	-47.7	≤ -22.8	PASS
		2480	Reference	-2.79	-2.79	---	PASS
			30~1000	-2.79	-59.76	≤ -22.79	PASS
			1000~26500	-2.79	-47.44	≤ -22.79	PASS
3DH1	Ant1	2402	Reference	-4.21	-4.21	---	PASS
			30~1000	-4.21	-60.36	≤ -24.21	PASS
			1000~26500	-4.21	-47.53	≤ -24.21	PASS
		2441	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-60.07	≤ -23.14	PASS
			1000~26500	-3.14	-48.25	≤ -23.14	PASS
		2480	Reference	-2.55	-2.55	---	PASS
			30~1000	-2.55	-60.31	≤ -22.55	PASS
			1000~26500	-2.55	-47.62	≤ -22.55	PASS

Test Graphs

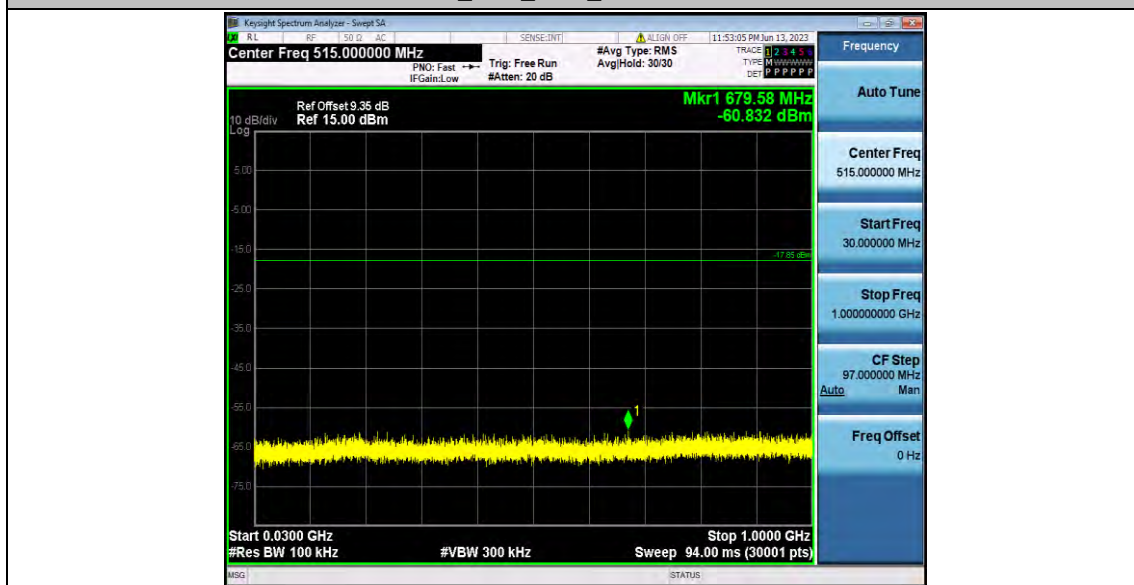




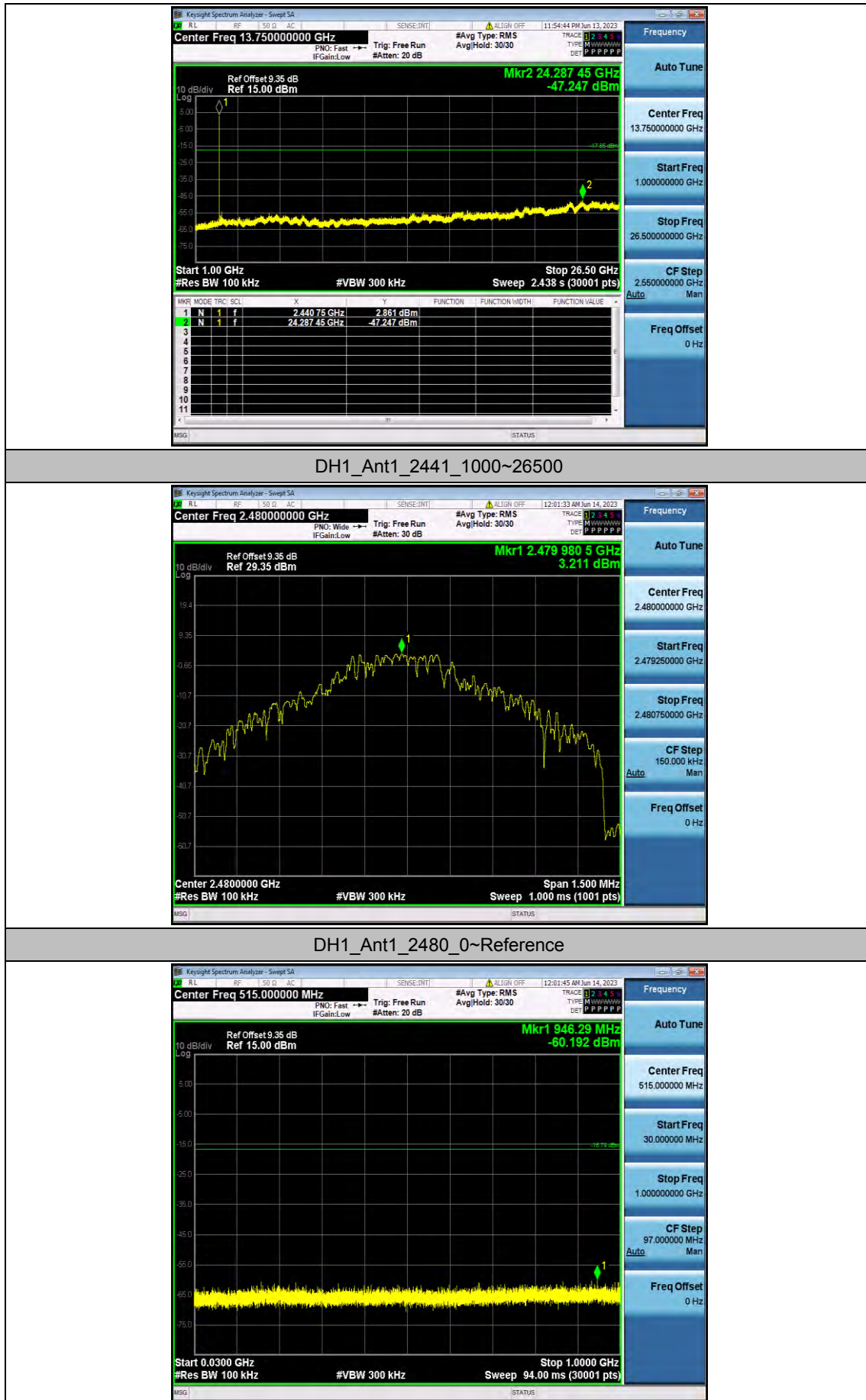
DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



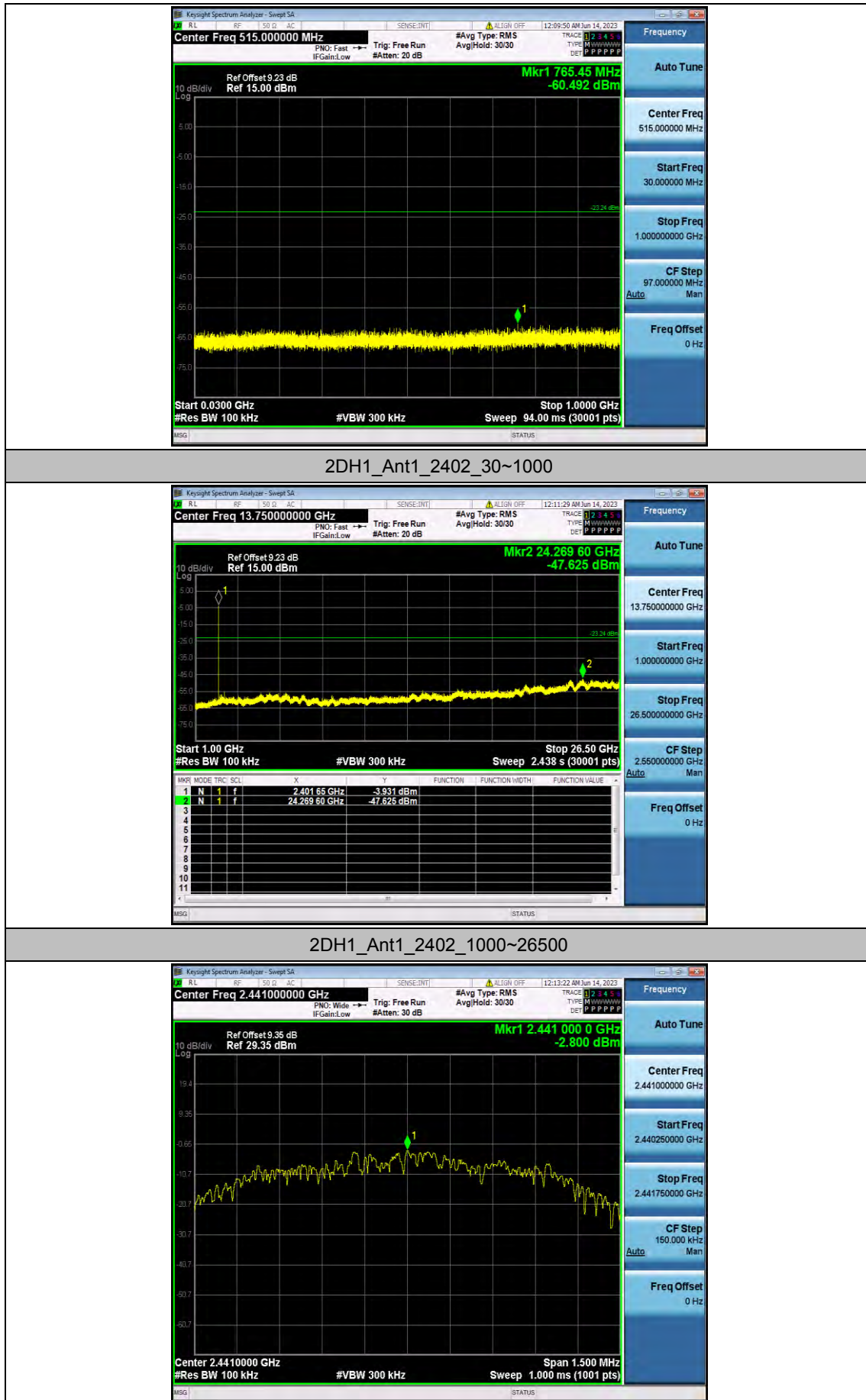
DH1_Ant1_2480_30~1000



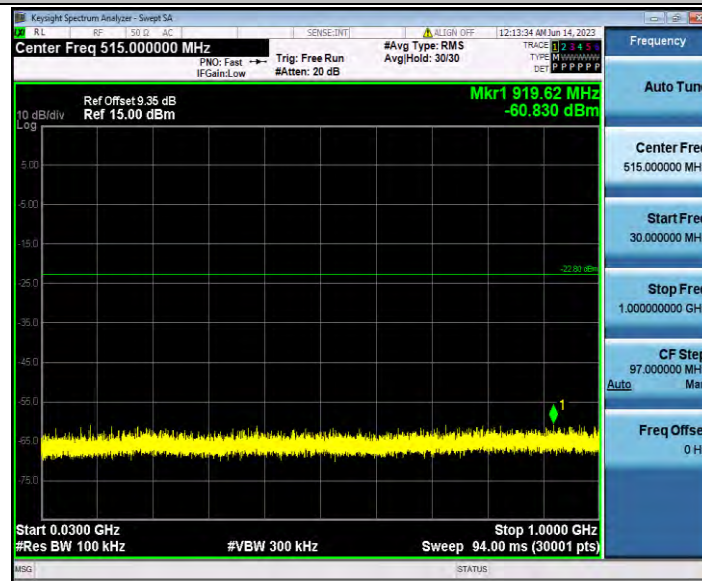
DH1_Ant1_2480_1000~26500



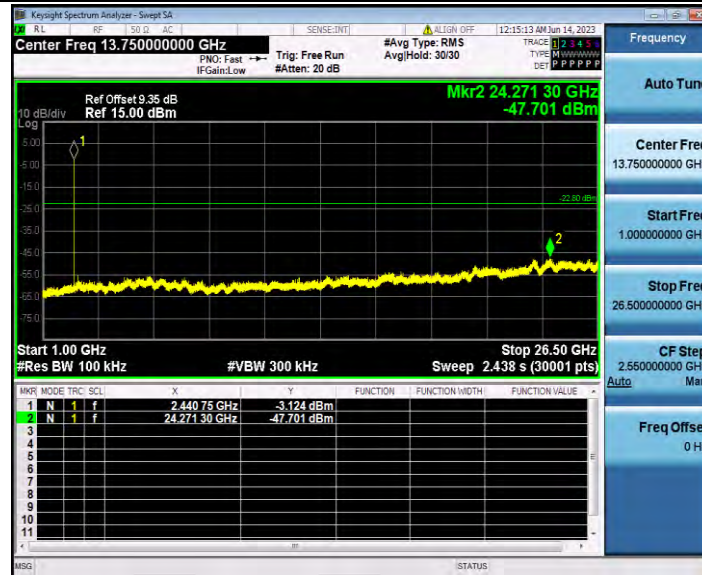
2DH1_Ant1_2402_0~Reference



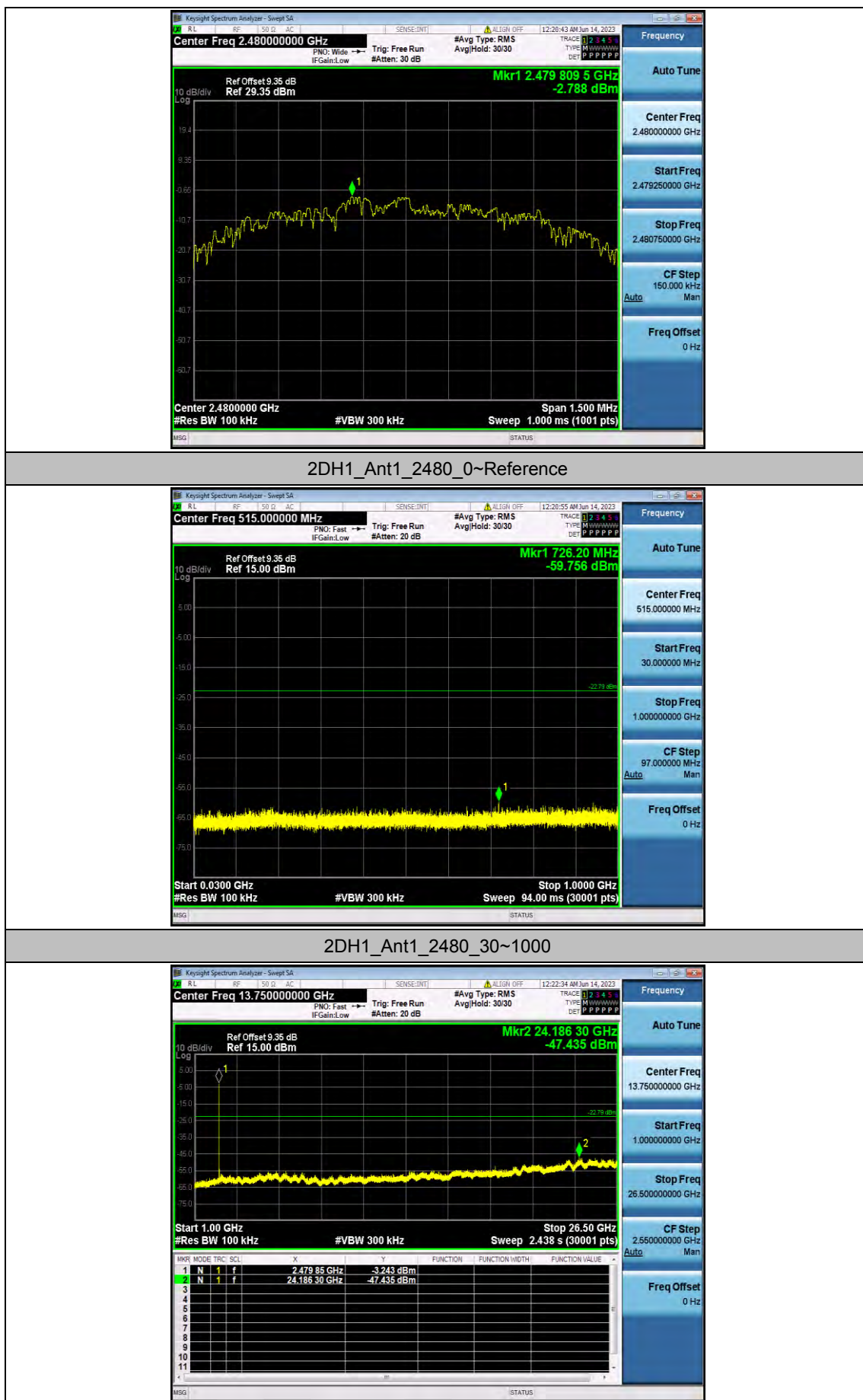
2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000

