

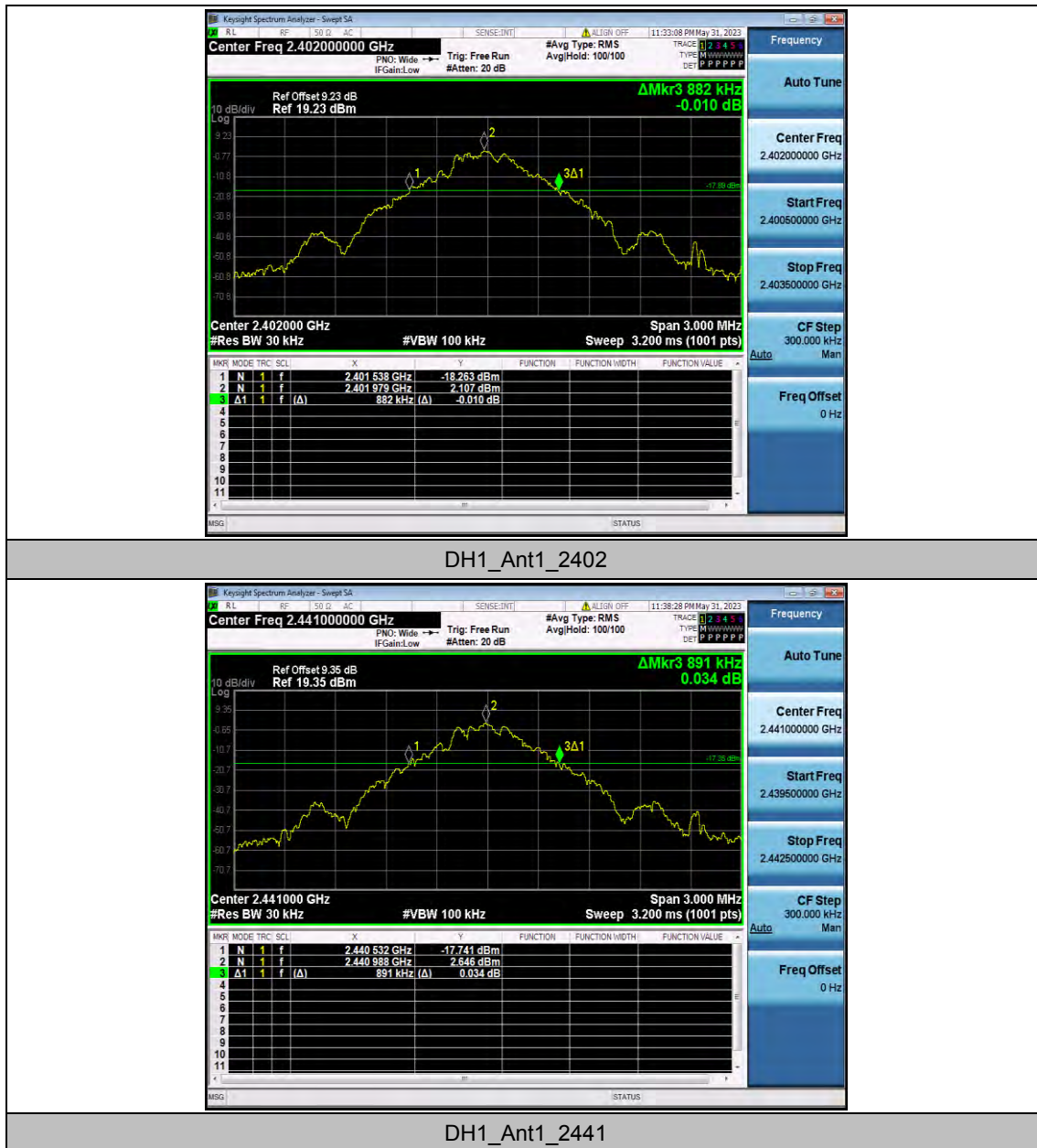
Case No. : <u>GTS20230508024-1-17</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.5.30</u>	Test Engineer: <u>Jenny zeng</u>

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	0.882	2401.538	2402.420	---	---
		2441	0.891	2440.532	2441.423	---	---
		2480	0.939	2479.526	2480.465	---	---
2DH1	Ant1	2402	1.443	2401.250	2402.693	---	---
		2441	1.440	2440.253	2441.693	---	---
		2480	1.449	2479.250	2480.699	---	---
3DH1	Ant1	2402	1.458	2401.256	2402.714	---	---
		2441	1.458	2440.256	2441.714	---	---
		2480	1.449	2479.268	2480.717	---	---

Test Graphs





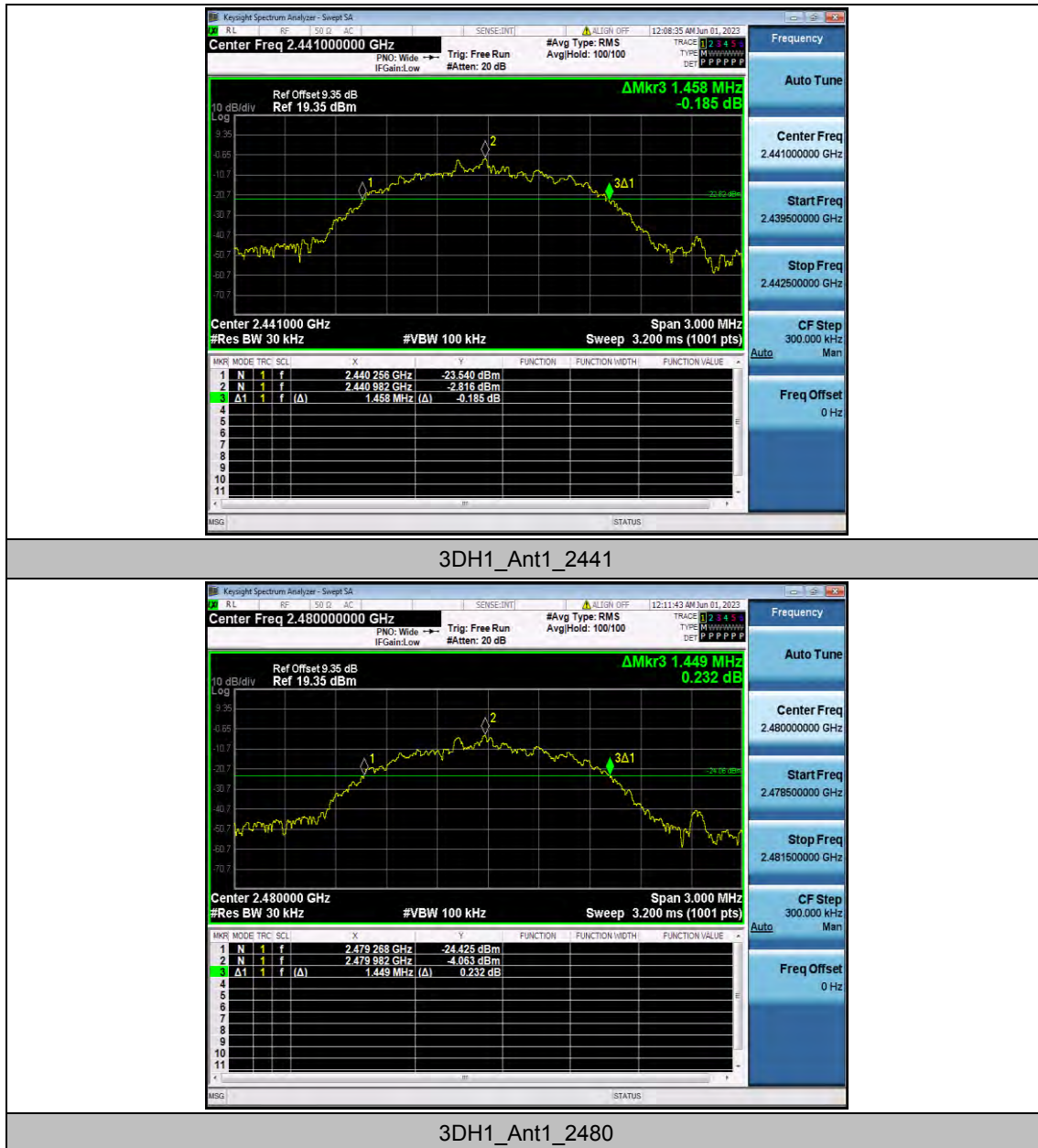
2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402

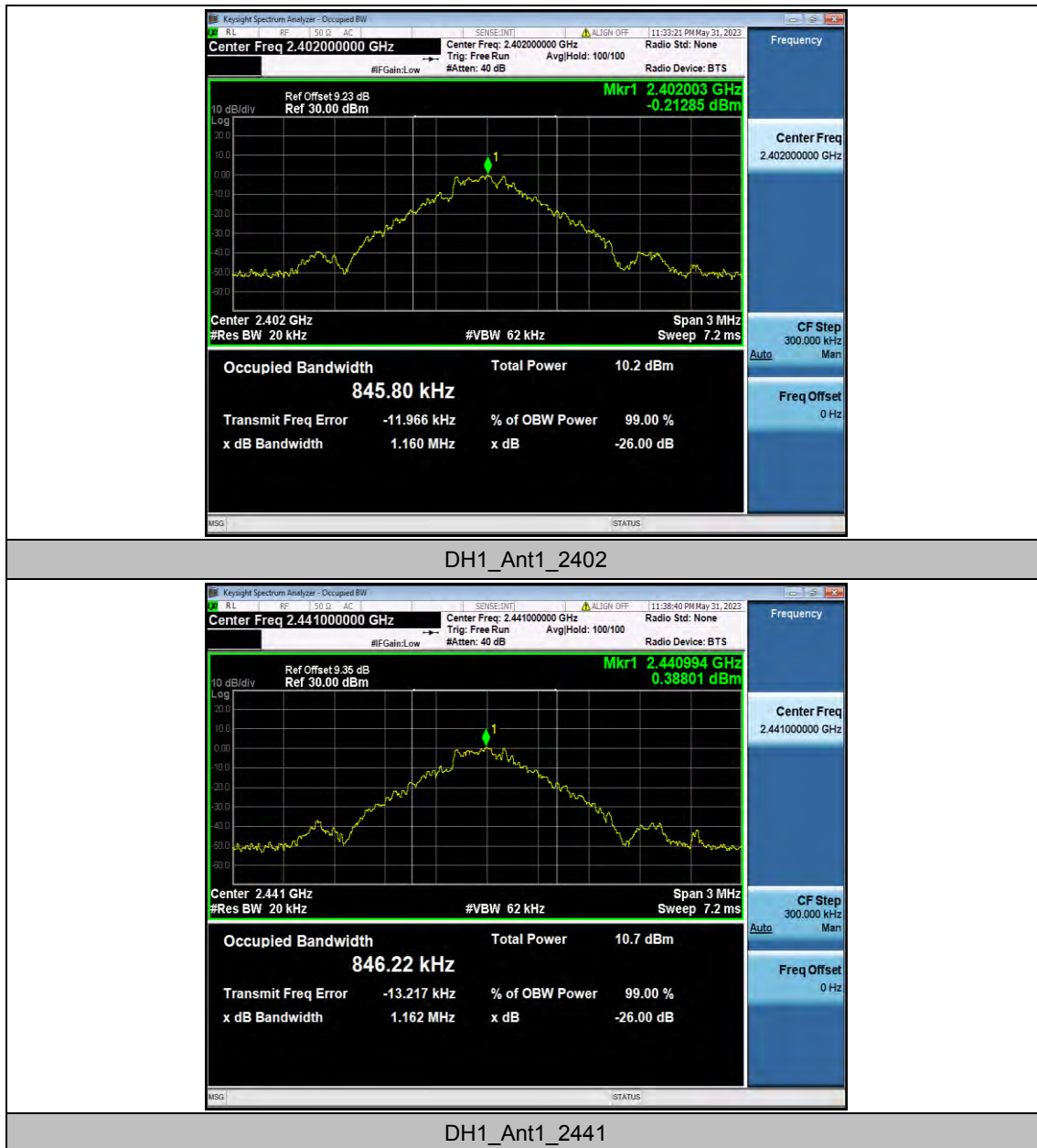


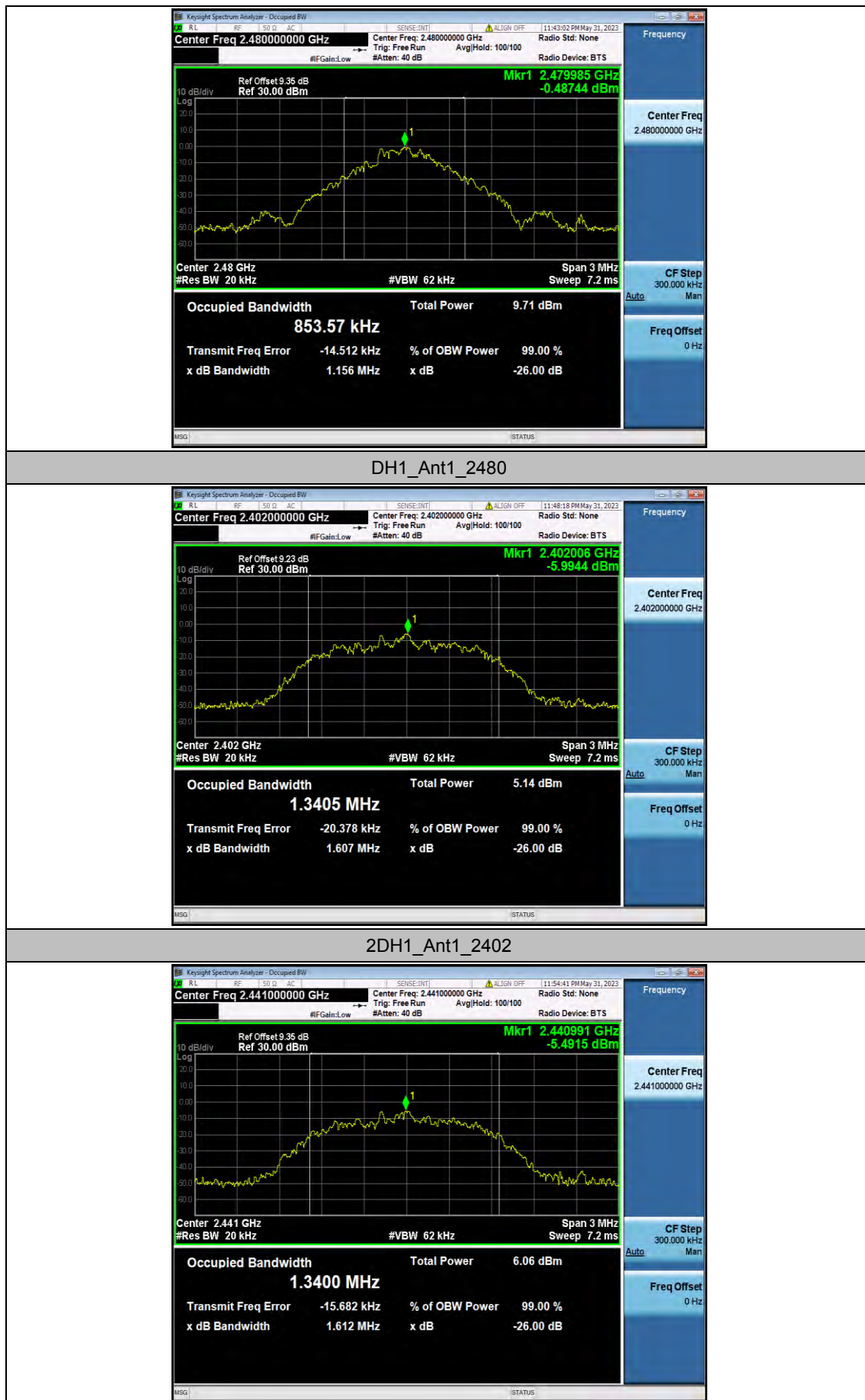
Appendix A.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.84580	2401.565	2402.411	---	---
		2441	0.84622	2440.564	2441.410	---	---
		2480	0.85357	2479.559	2480.412	---	---
2DH1	Ant1	2402	1.3405	2401.309	2402.650	---	---
		2441	1.3400	2440.314	2441.654	---	---
		2480	1.3434	2479.311	2480.654	---	---
3DH1	Ant1	2402	1.3451	2401.311	2402.657	---	---
		2441	1.3419	2440.315	2441.657	---	---
		2480	1.3494	2479.310	2480.659	---	---

Test Graphs

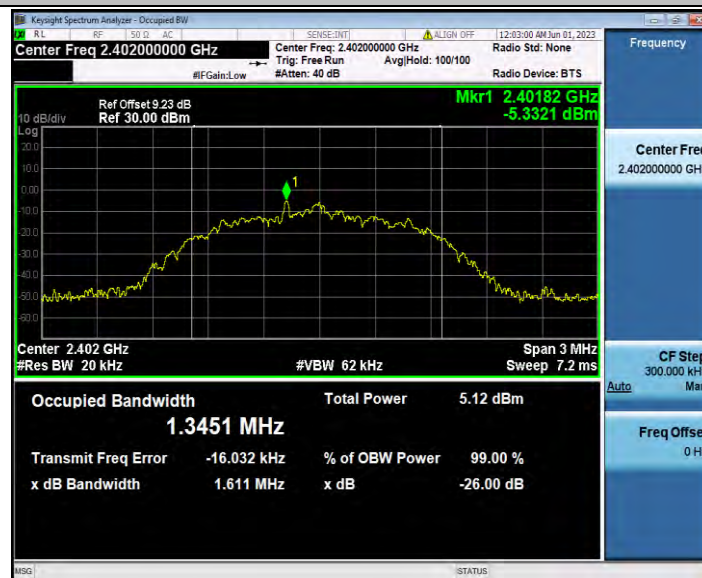




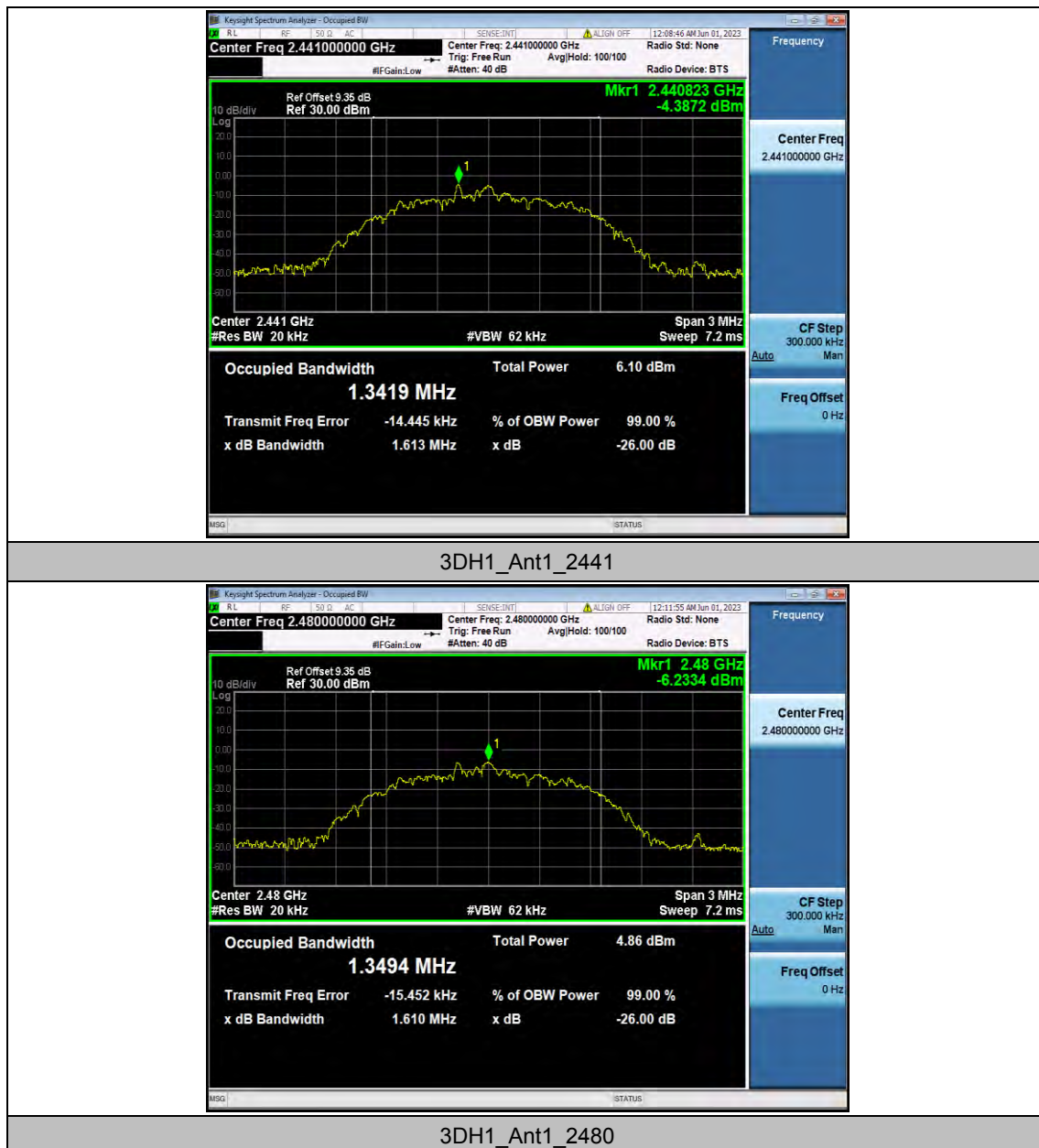
2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



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	4.32	≤20.97	PASS
		2441	4.98	≤20.97	PASS
		2480	3.97	≤20.97	PASS
2DH1	Ant1	2402	0.91	≤20.97	PASS
		2441	1.74	≤20.97	PASS
		2480	0.6	≤20.97	PASS
3DH1	Ant1	2402	1.08	≤20.97	PASS
		2441	1.98	≤20.97	PASS
		2480	0.74	≤20.97	PASS

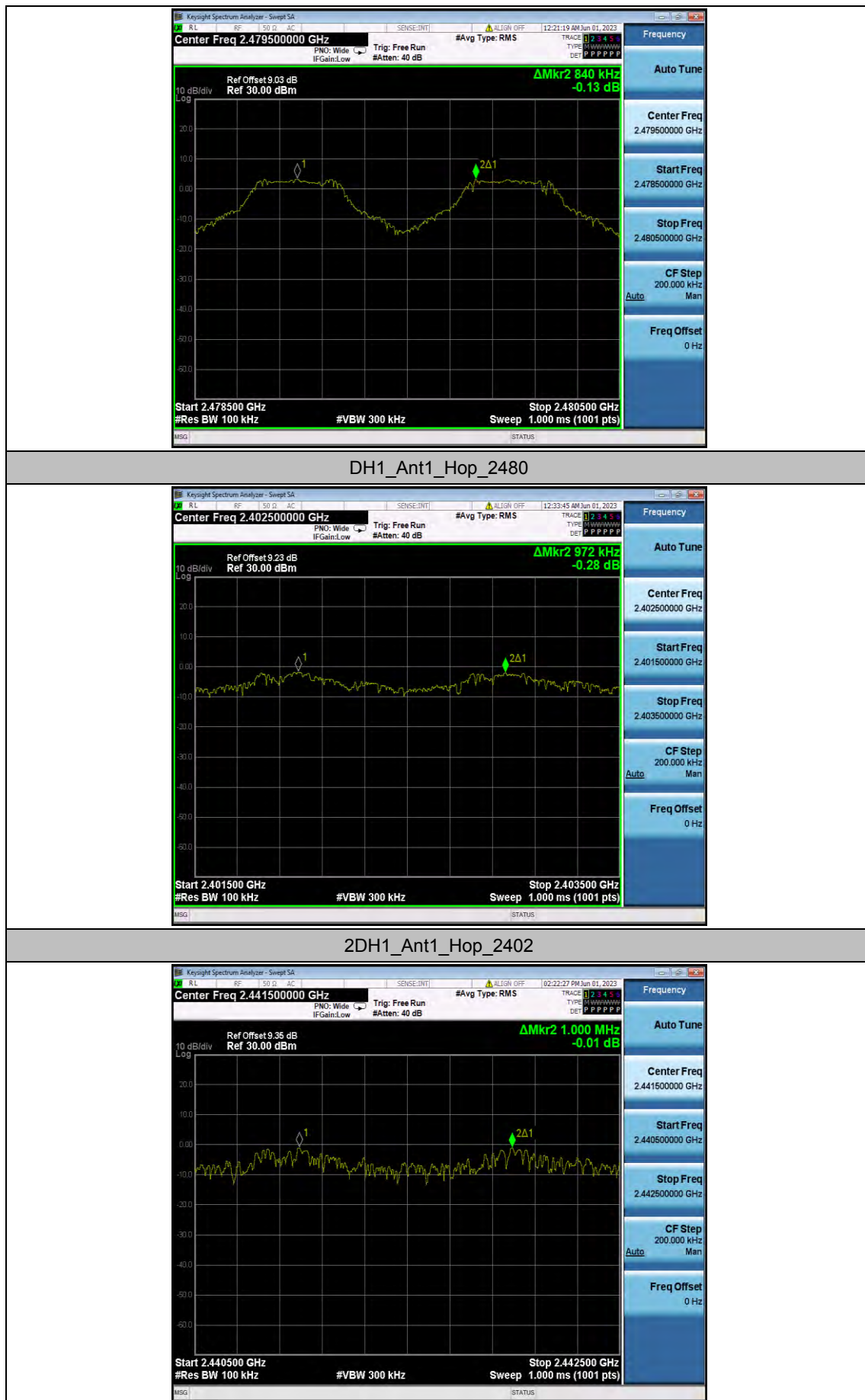
Appendix A.4: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.998	≥ 0.626	PASS
		Hop_2441	0.996	≥ 0.626	PASS
		Hop_2480	0.84	≥ 0.626	PASS
2DH1	Ant1	Hop_2402	0.972	≥ 0.966	PASS
		Hop_2441	1	≥ 0.966	PASS
		Hop_2480	1.006	≥ 0.966	PASS
3DH1	Ant1	Hop_2402	1.14	≥ 0.972	PASS
		Hop_2441	1.002	≥ 0.972	PASS
		Hop_2480	1.166	≥ 0.972	PASS

Test Graphs





2DH1_Ant1_Hop_2441



2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402

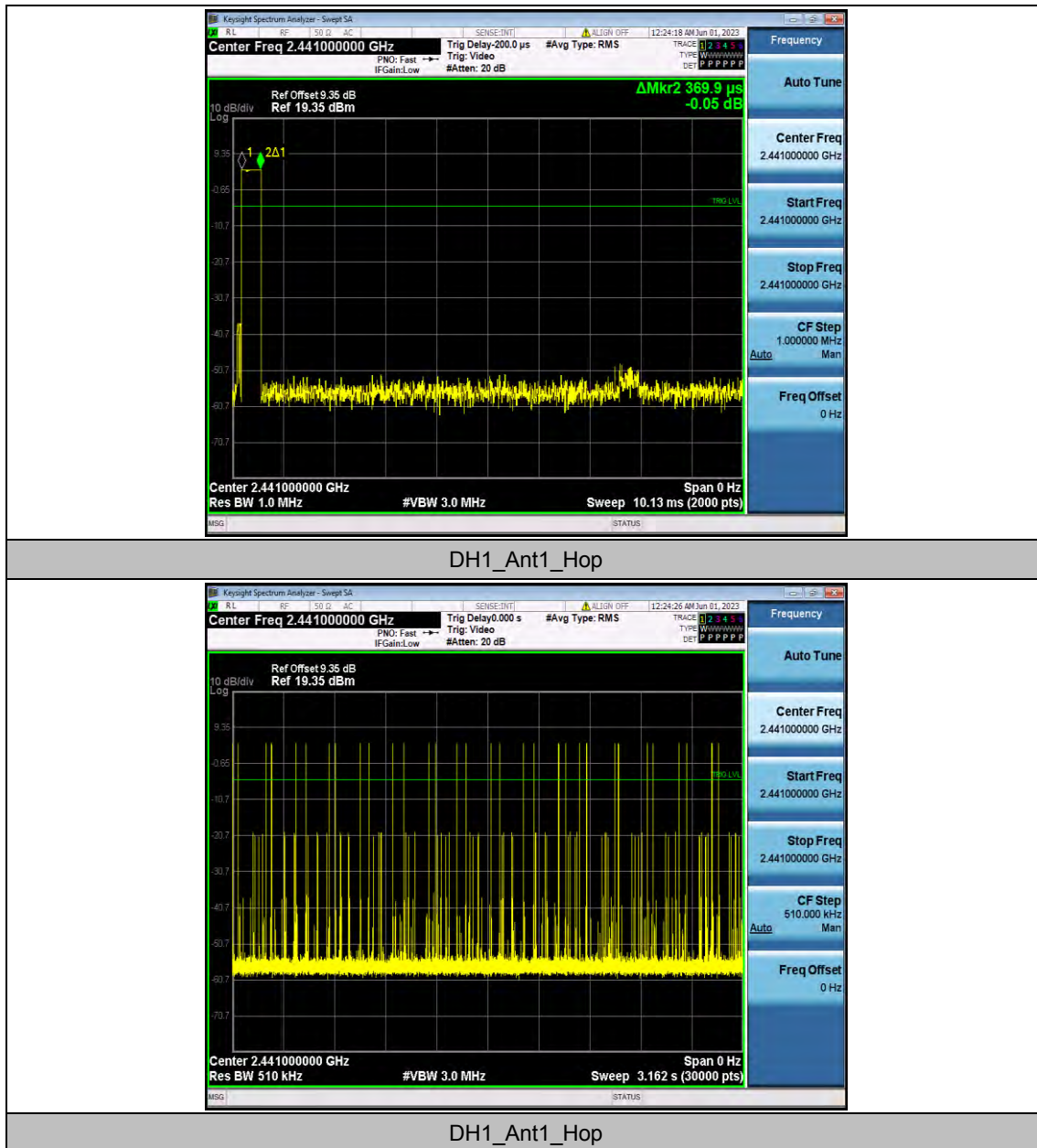


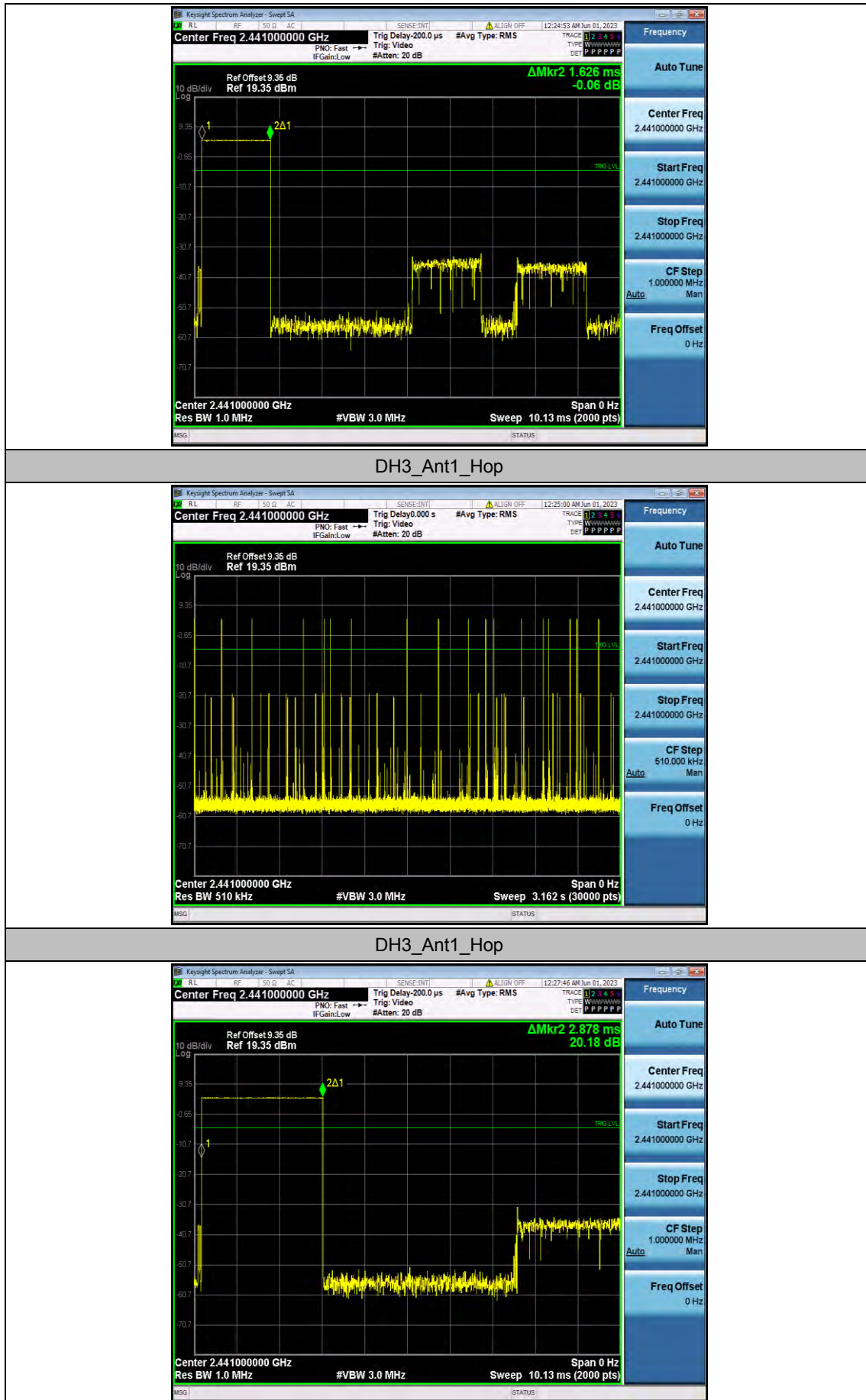
Appendix A.5: Time of occupancy

Test Result

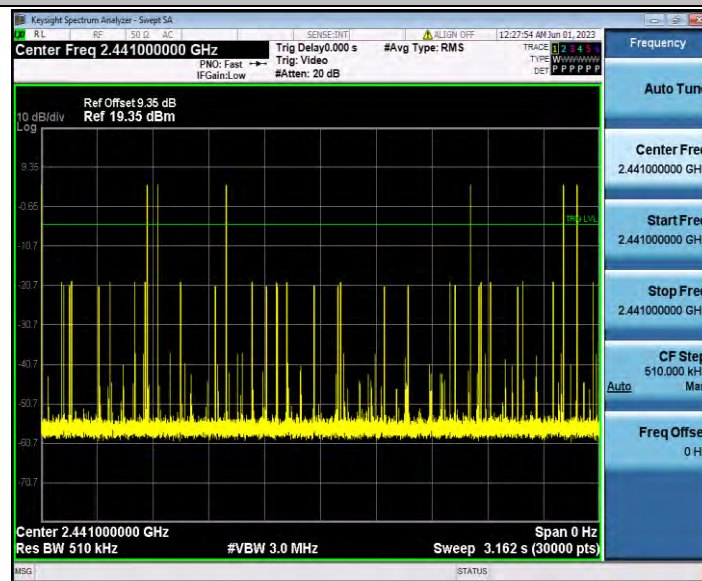
Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	180	0.293	≤0.4	PASS
DH5	Ant1	Hop	2.88	70	0.201	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.63	170	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS
3DH1	Ant1	Hop	0.38	310	0.118	≤0.4	PASS
3DH3	Ant1	Hop	1.63	170	0.277	≤0.4	PASS
3DH5	Ant1	Hop	2.88	130	0.375	≤0.4	PASS

Test Graphs

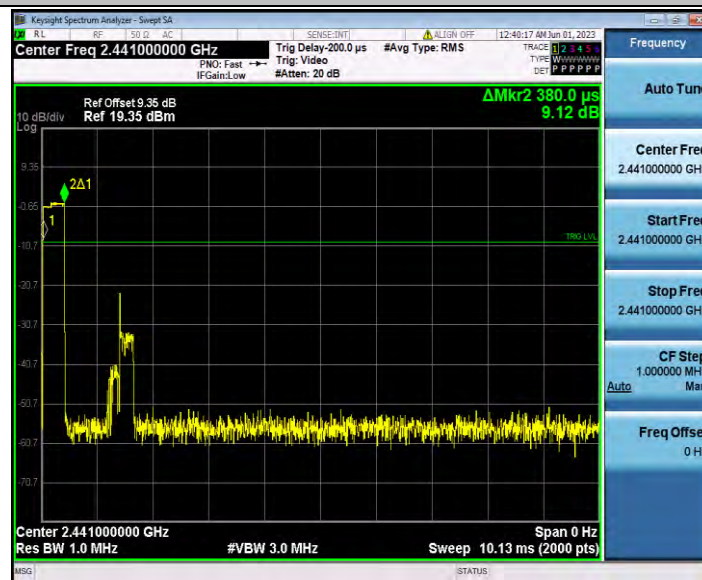




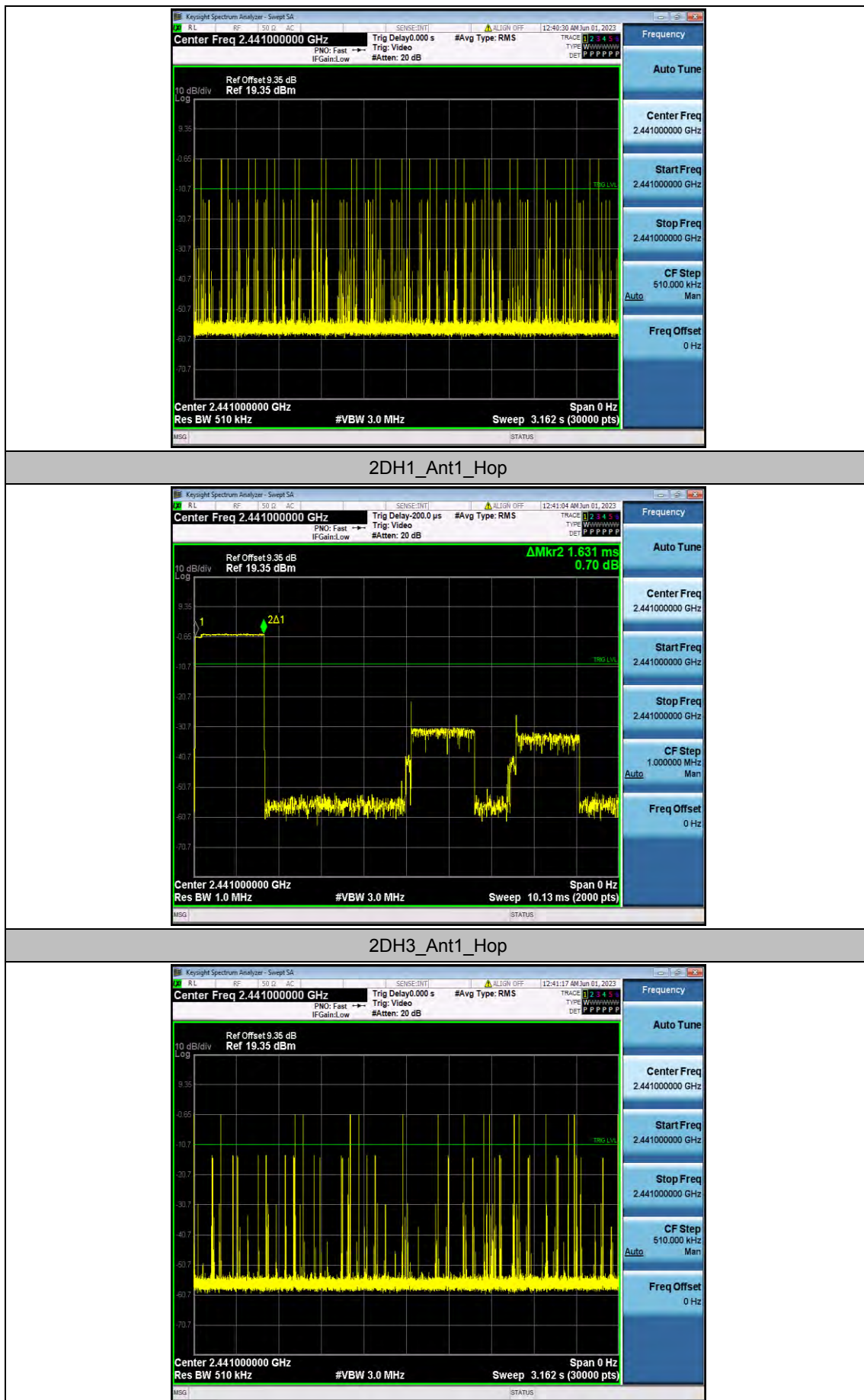
DH5_Ant1_Hop



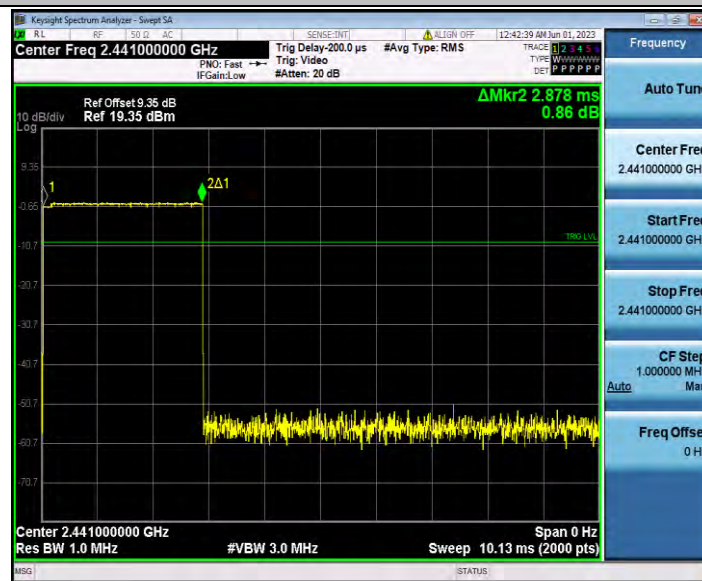
DH5_Ant1_Hop



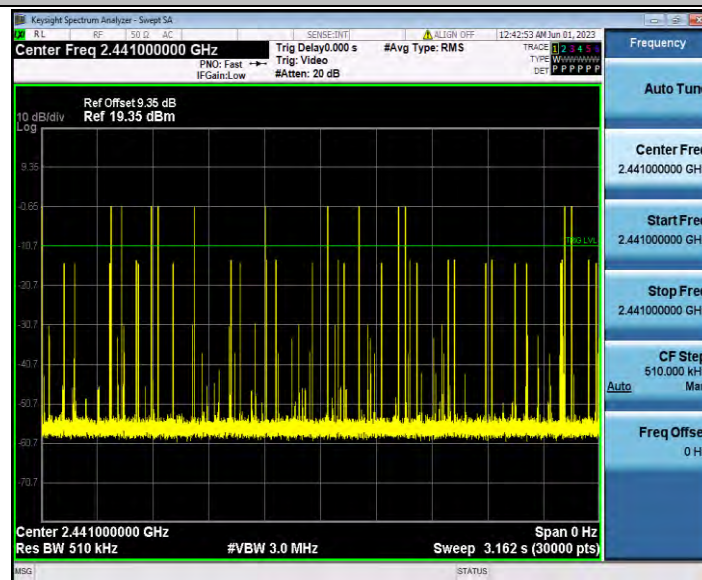
2DH1_Ant1_Hop



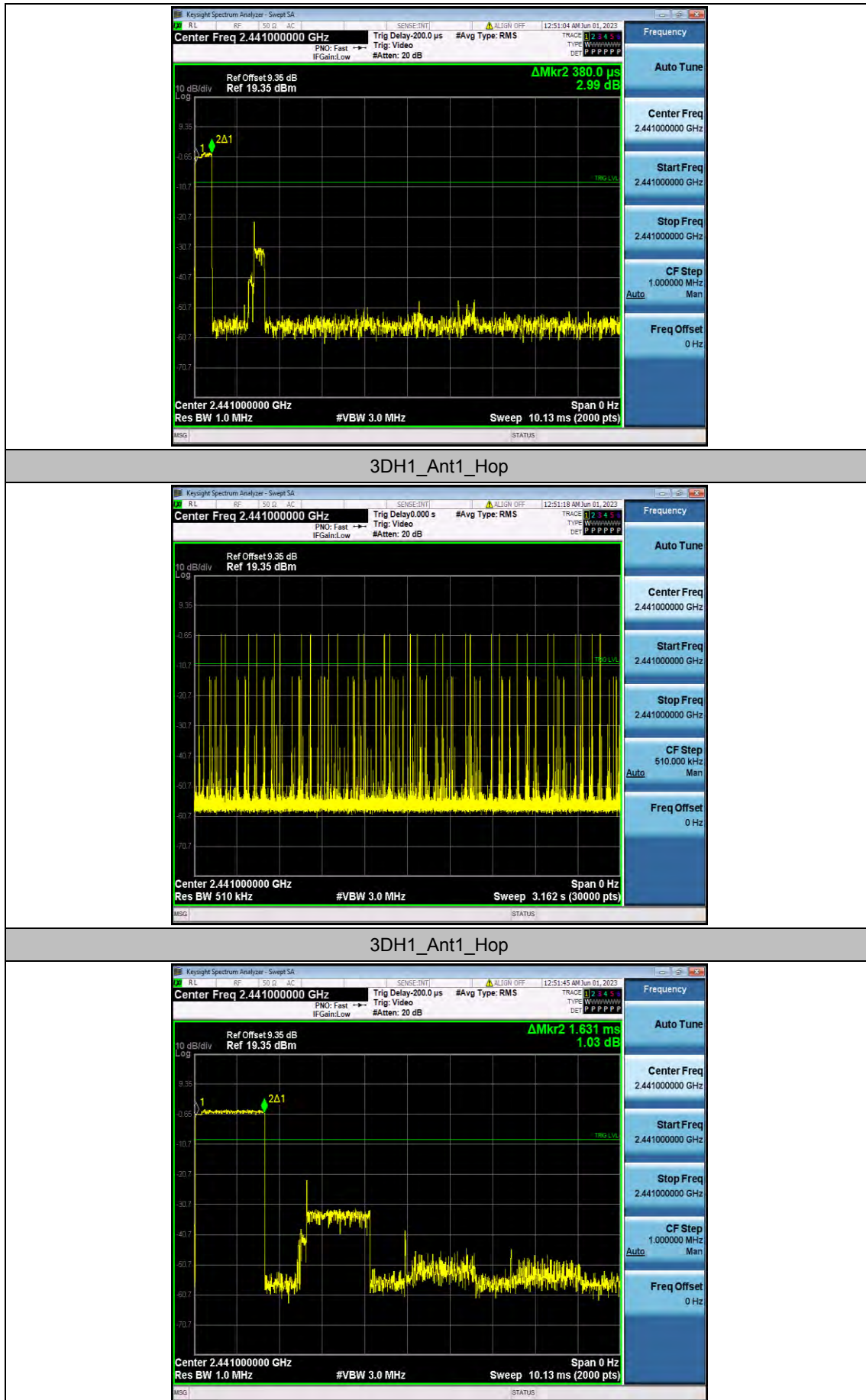
2DH3_Ant1_Hop



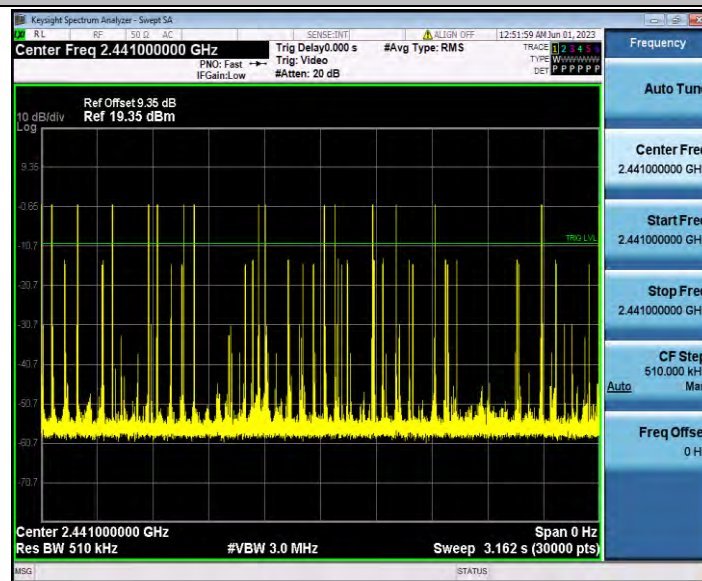
2DH5_Ant1_Hop



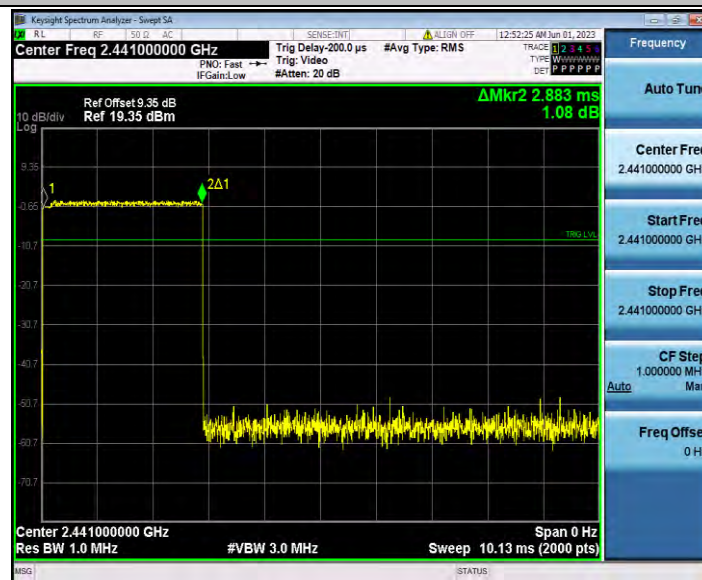
2DH5_Ant1_Hop



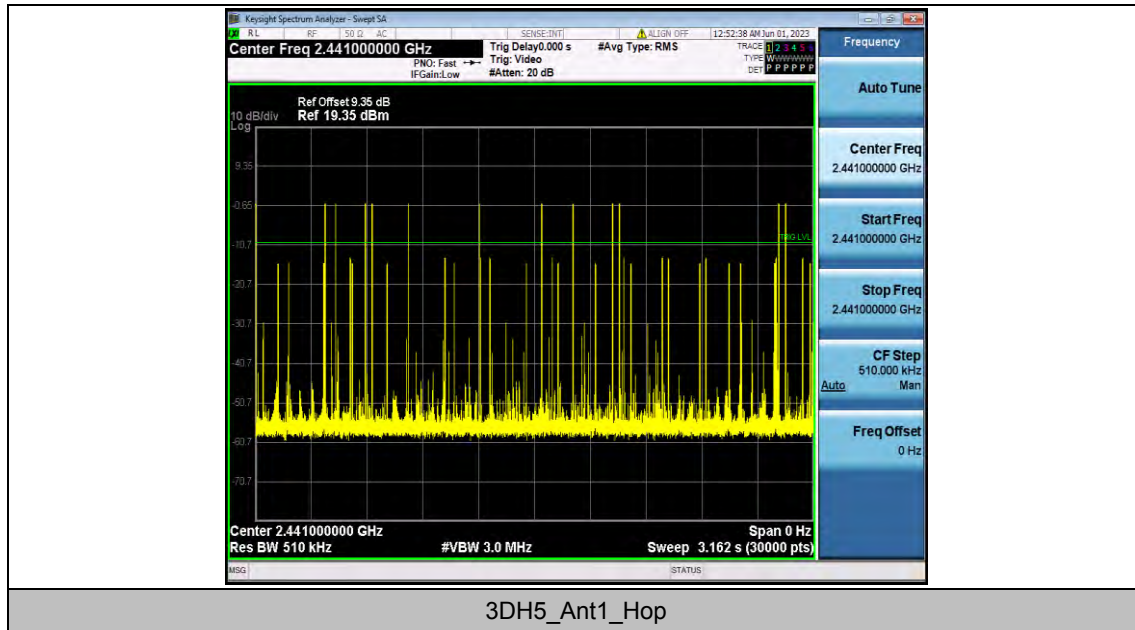
3DH3_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

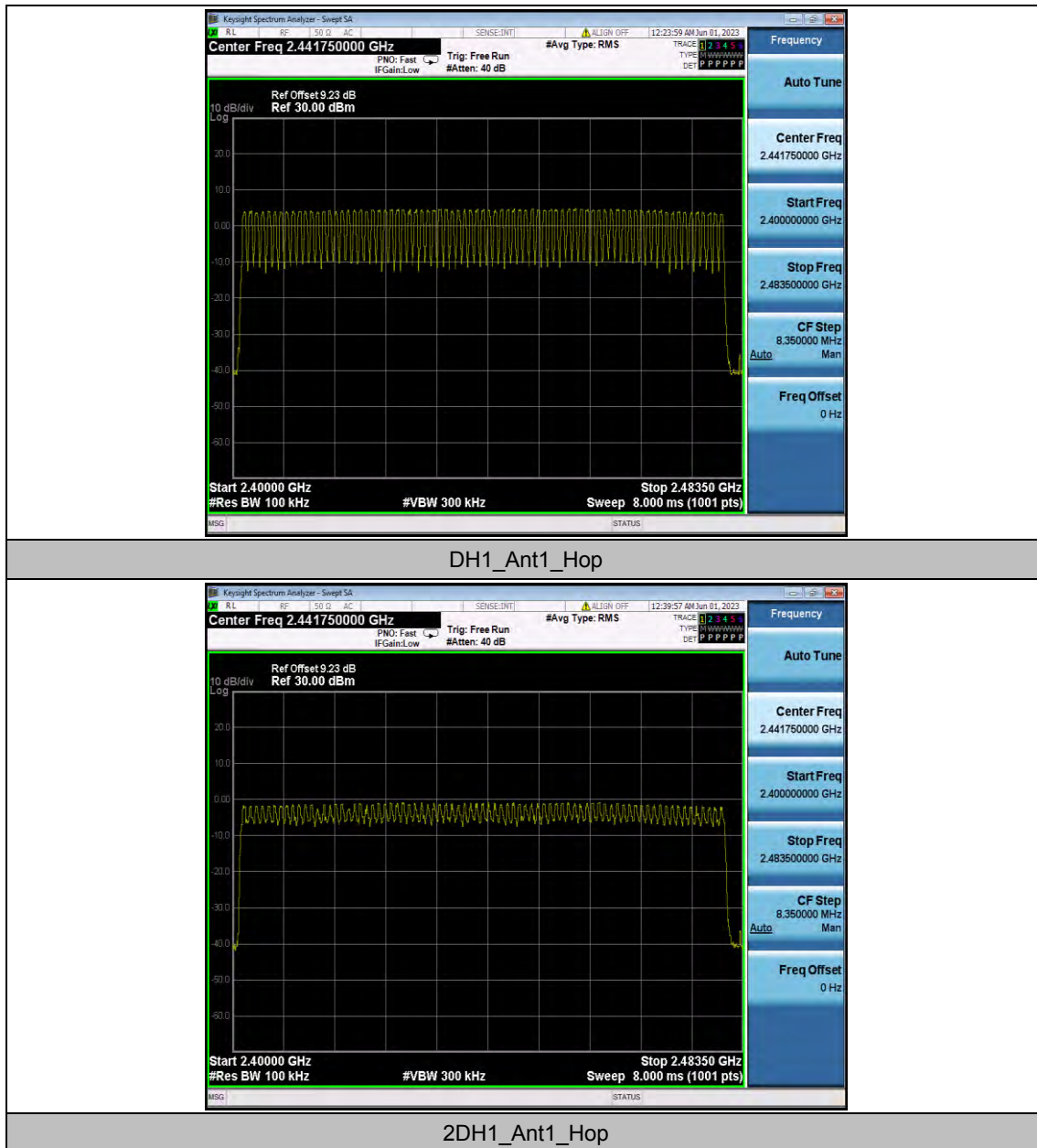


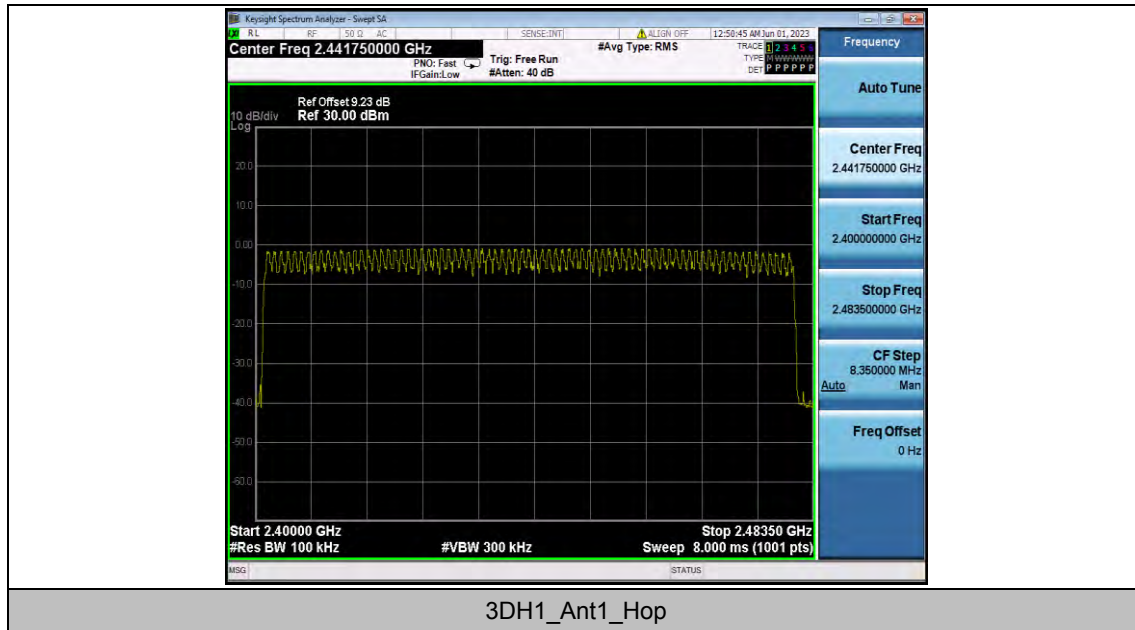
Appendix A.6: Number of hopping channels

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



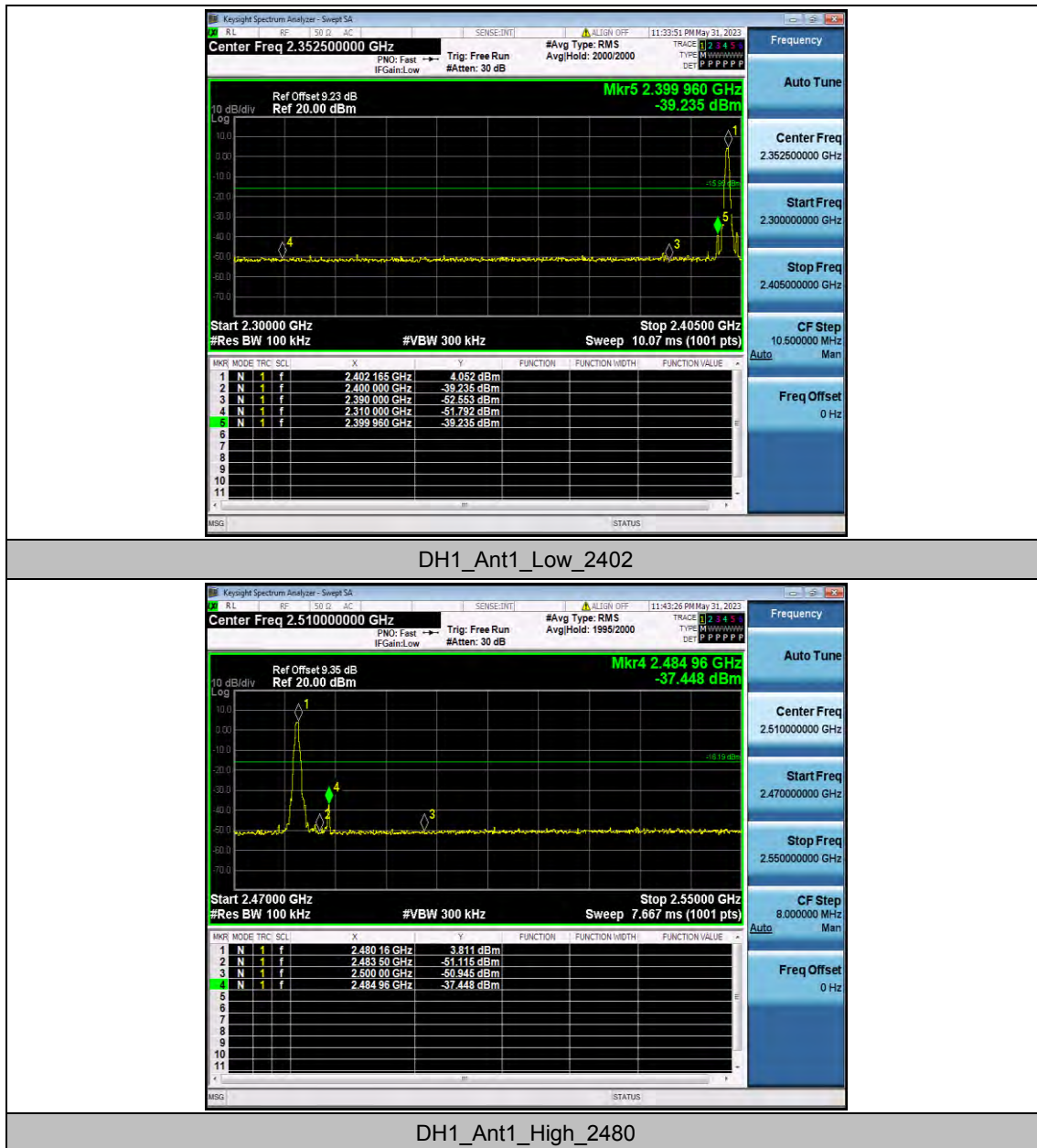


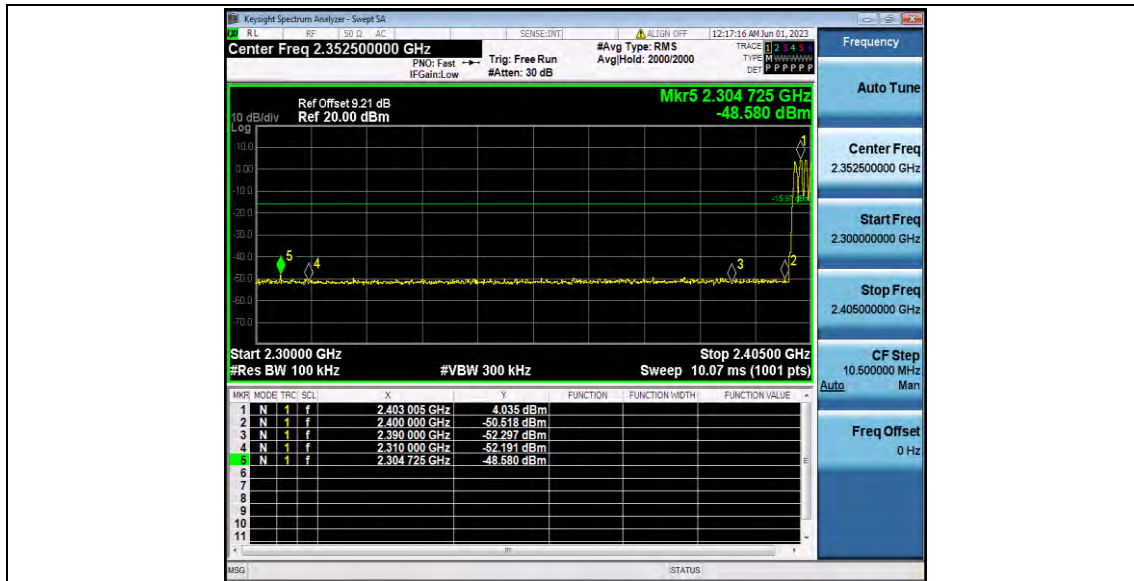
Appendix A.7: Band edge measurements

Test Result

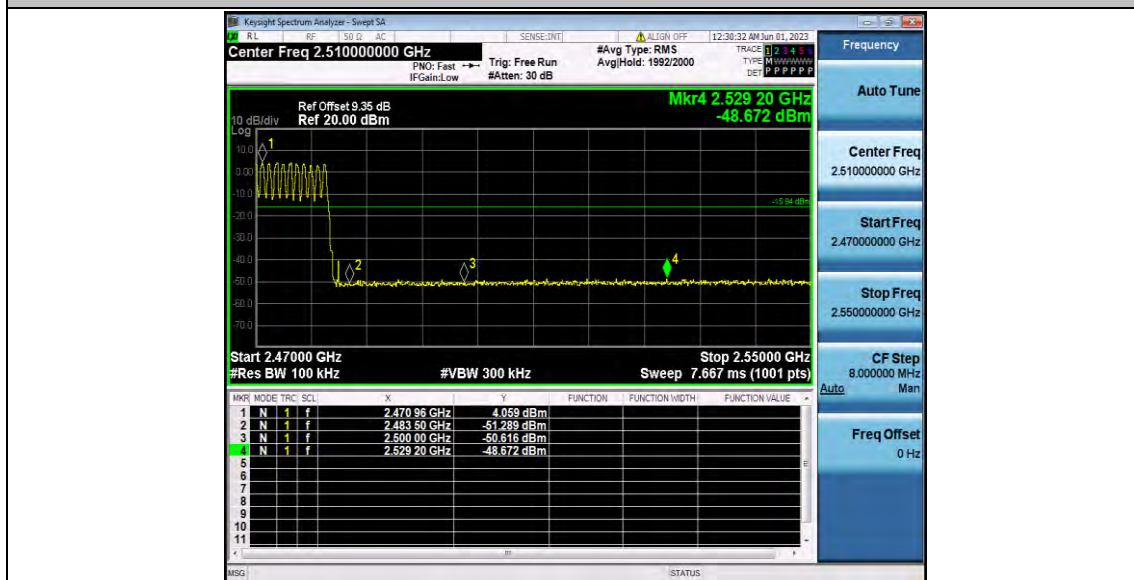
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	4.05	-39.24	≤-15.95	PASS
		High	2480	3.81	-37.45	≤-16.19	PASS
		Low	Hop_2402	4.04	-48.58	≤-15.97	PASS
		High	Hop_2480	4.06	-48.67	≤-15.94	PASS
2DH1	Ant1	Low	2402	-1.75	-47.07	≤-21.75	PASS
		High	2480	-1.93	-37.19	≤-21.93	PASS
		Low	Hop_2402	-2.01	-49.55	≤-22.01	PASS
		High	Hop_2480	-2.28	-48.58	≤-22.28	PASS
3DH1	Ant1	Low	2402	-1.64	-44.06	≤-21.64	PASS
		High	2480	-1.87	-37.44	≤-21.87	PASS
		Low	Hop_2402	-1.67	-49.27	≤-21.67	PASS
		High	Hop_2480	-1.55	-48.64	≤-21.55	PASS

Test Graphs

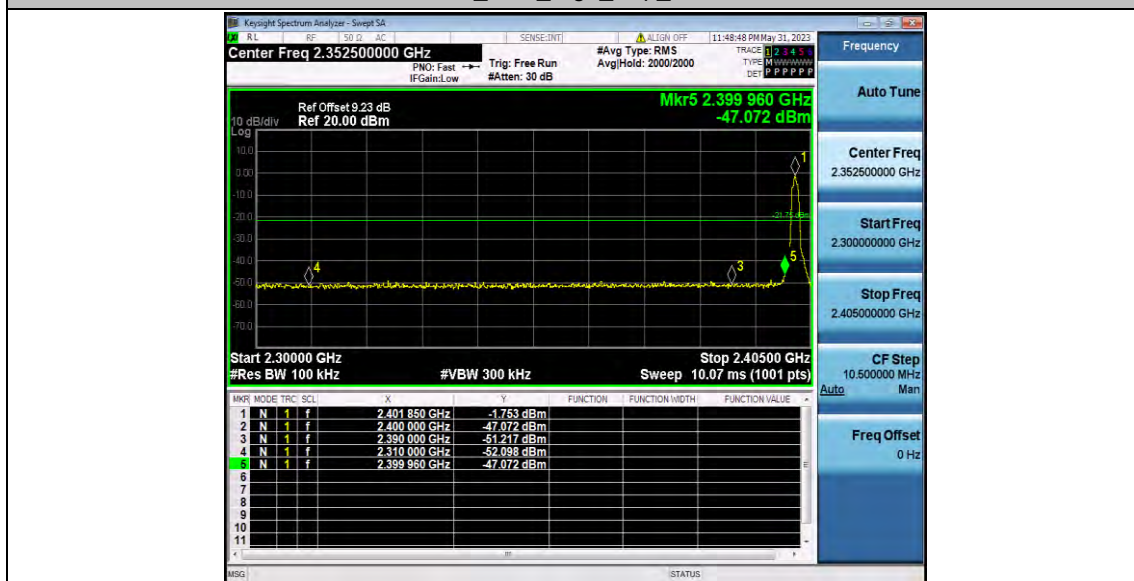




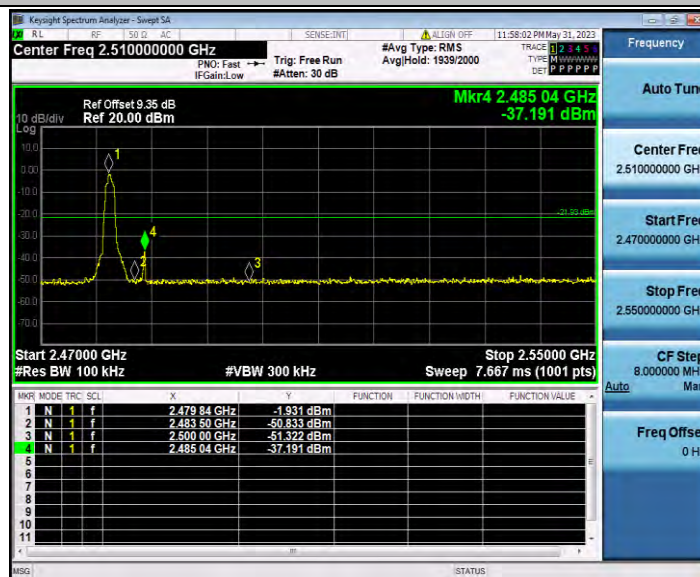
DH1_Ant1_Low_Hop_2402



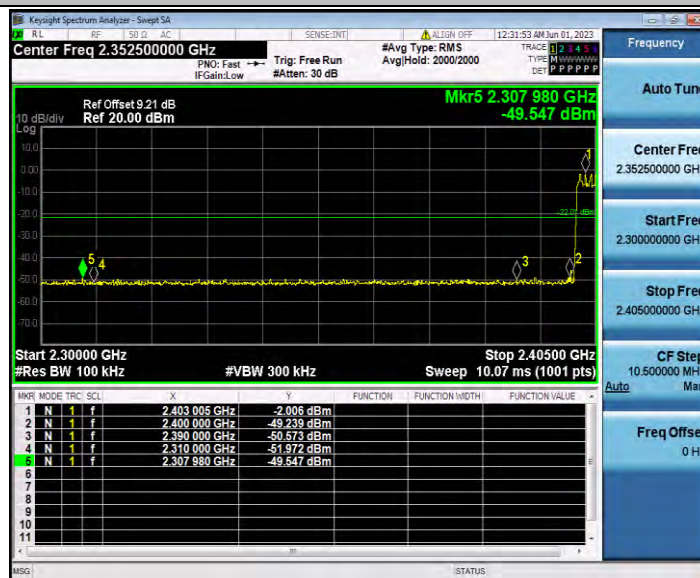
DH1_Ant1_High_Hop_2480



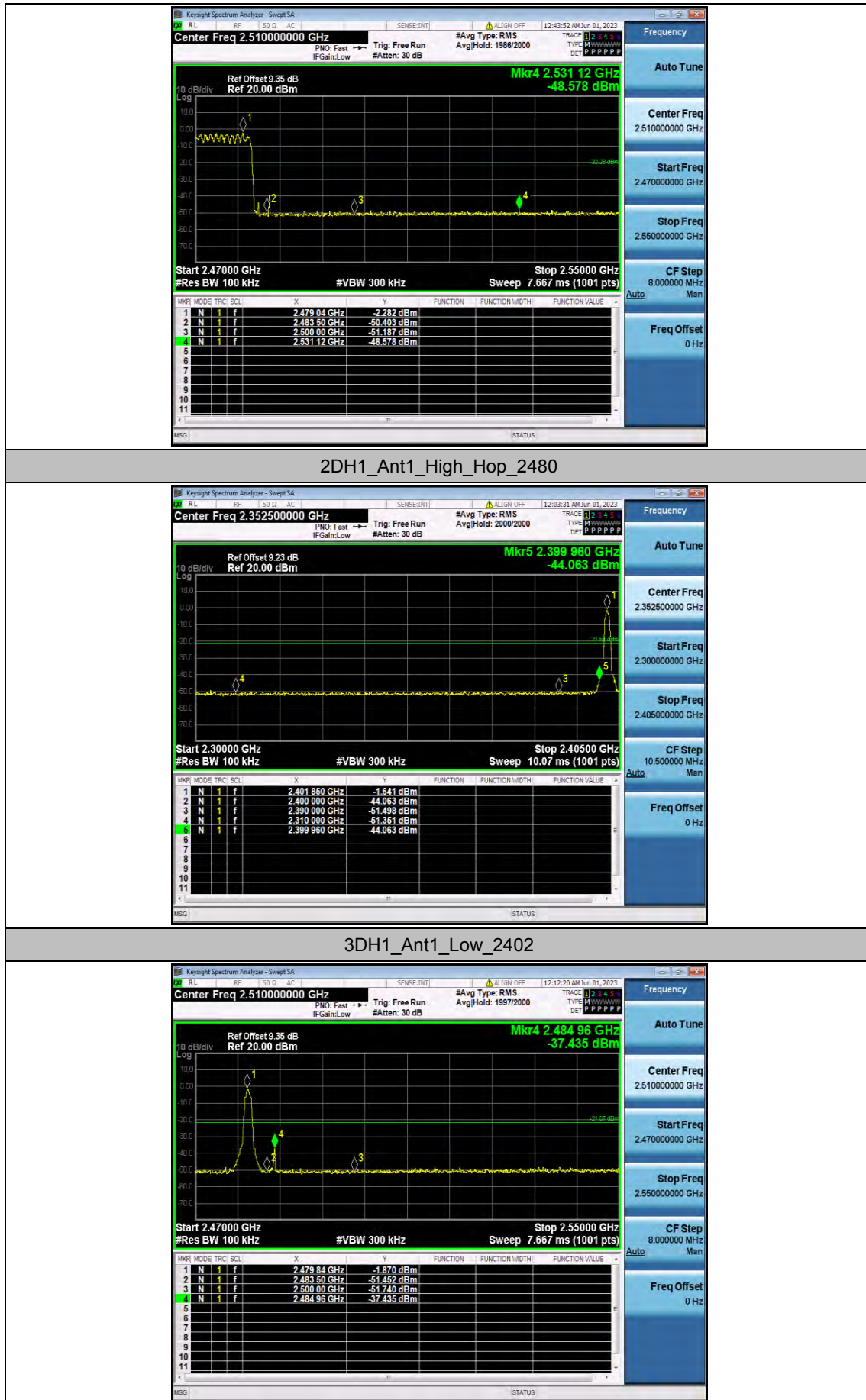
2DH1_Ant1_Low_2402



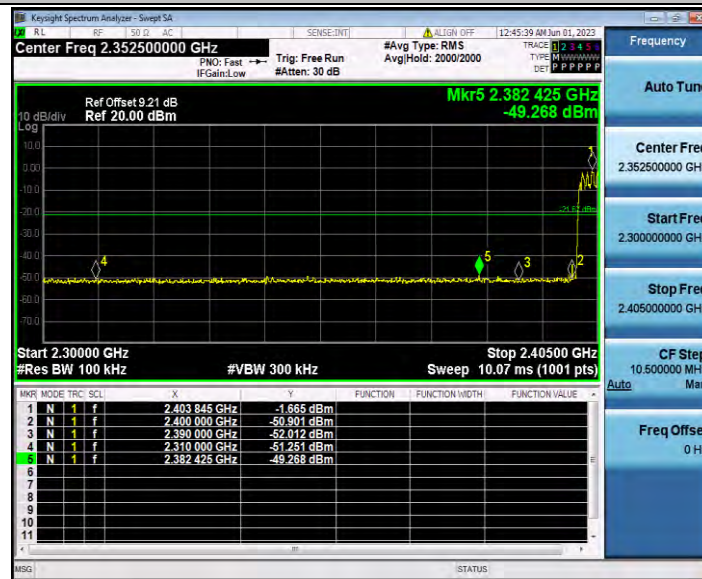
2DH1_Ant1_High_2480



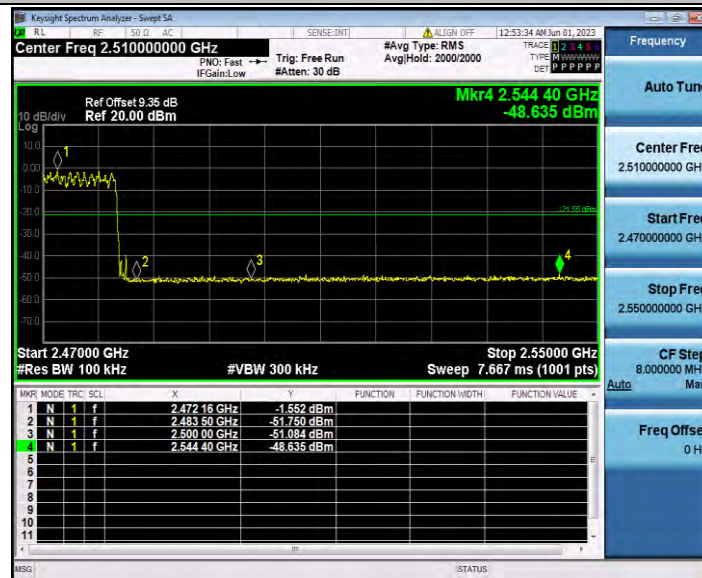
2DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



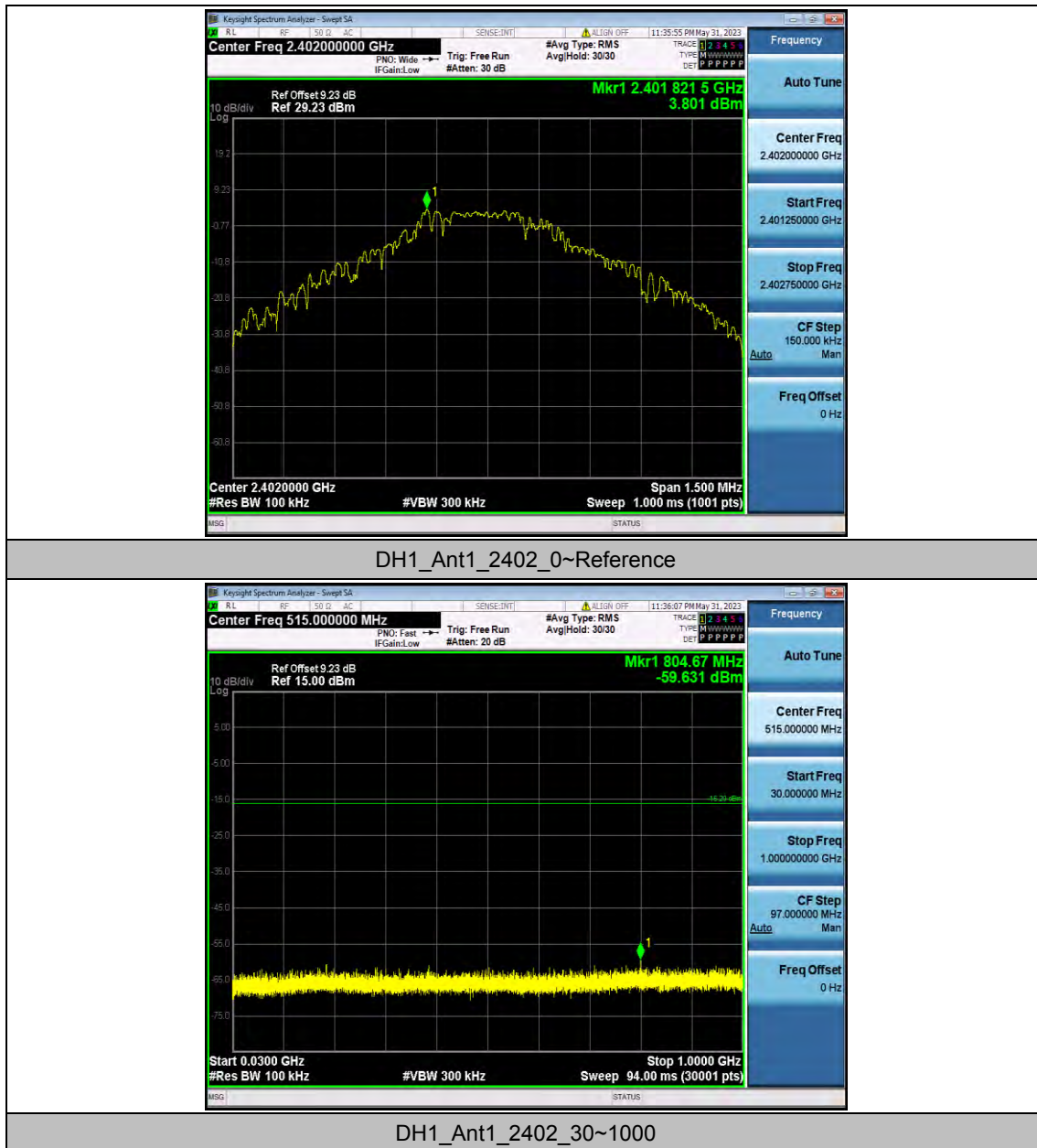
3DH1_Ant1_High_Hop_2480

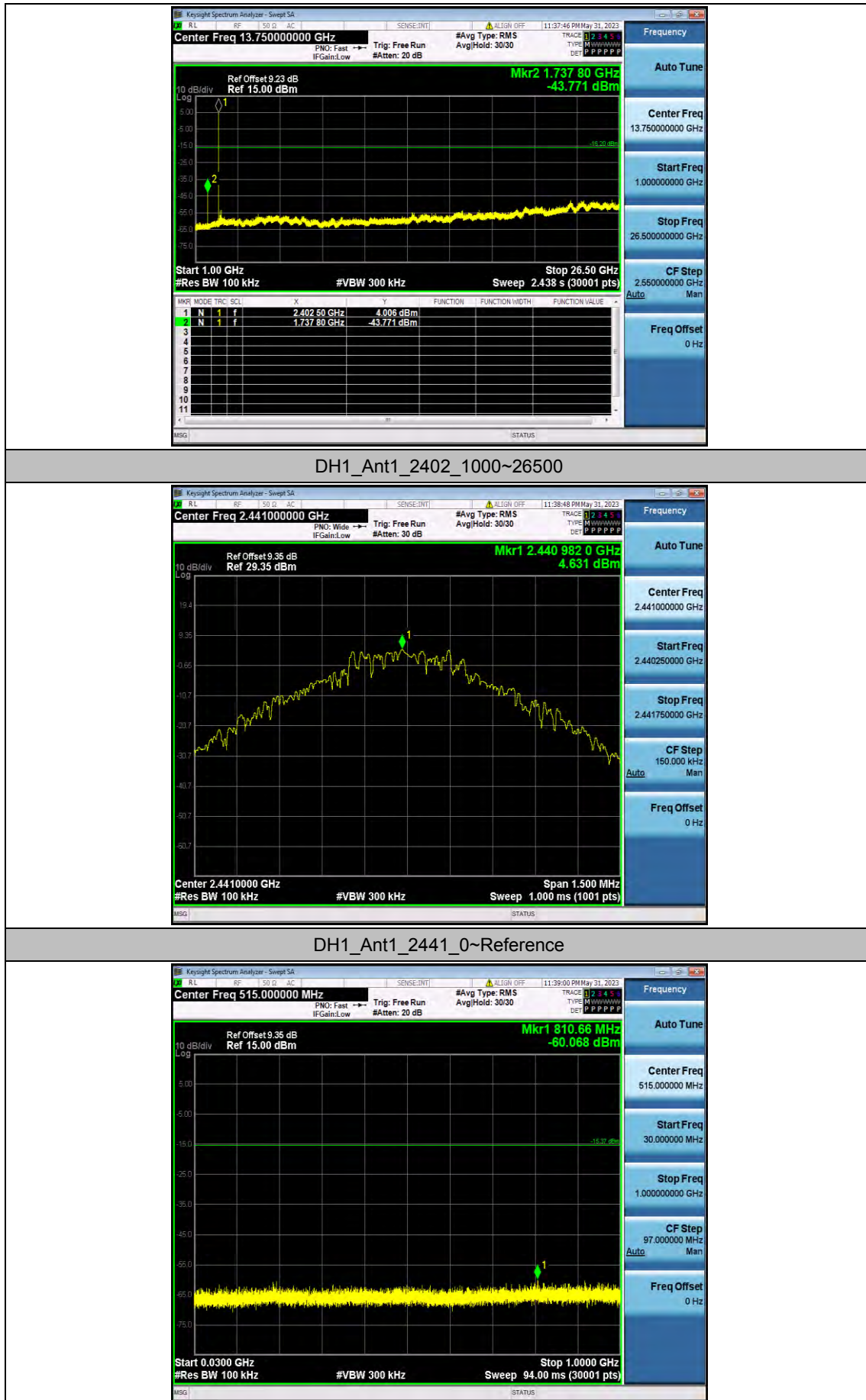
Appendix A.8: Conducted Spurious Emission

Test Result

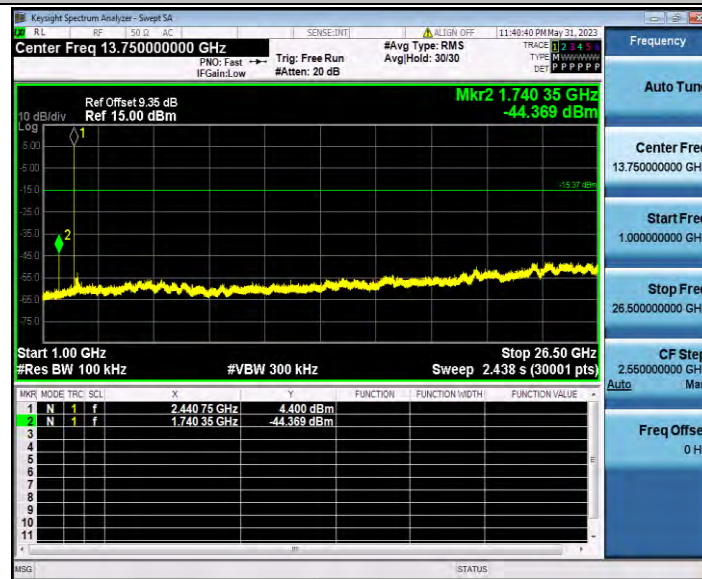
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	3.80	3.80	---	PASS
			30~1000	3.80	-59.63	≤-16.2	PASS
			1000~26500	3.80	-43.77	≤-16.2	PASS
		2441	Reference	4.63	4.63	---	PASS
			30~1000	4.63	-60.07	≤-15.37	PASS
			1000~26500	4.63	-44.37	≤-15.37	PASS
		2480	Reference	3.51	3.51	---	PASS
			30~1000	3.51	-59.59	≤-16.49	PASS
			1000~26500	3.51	-47.76	≤-16.49	PASS
2DH1	Ant1	2402	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-60.49	≤-21.96	PASS
			1000~26500	-1.96	-47.97	≤-21.96	PASS
		2441	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-60.01	≤-20.88	PASS
			1000~26500	-0.88	-47.74	≤-20.88	PASS
		2480	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-60.13	≤-22.17	PASS
			1000~26500	-2.17	-47.8	≤-22.17	PASS
3DH1	Ant1	2402	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-60.83	≤-21.92	PASS
			1000~26500	-1.92	-47.06	≤-21.92	PASS
		2441	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-60.44	≤-20.81	PASS
			1000~26500	-0.81	-47.54	≤-20.81	PASS
		2480	Reference	-2.10	-2.10	---	PASS
			30~1000	-2.10	-60.22	≤-22.1	PASS
			1000~26500	-2.10	-47.61	≤-22.1	PASS

Test Graphs





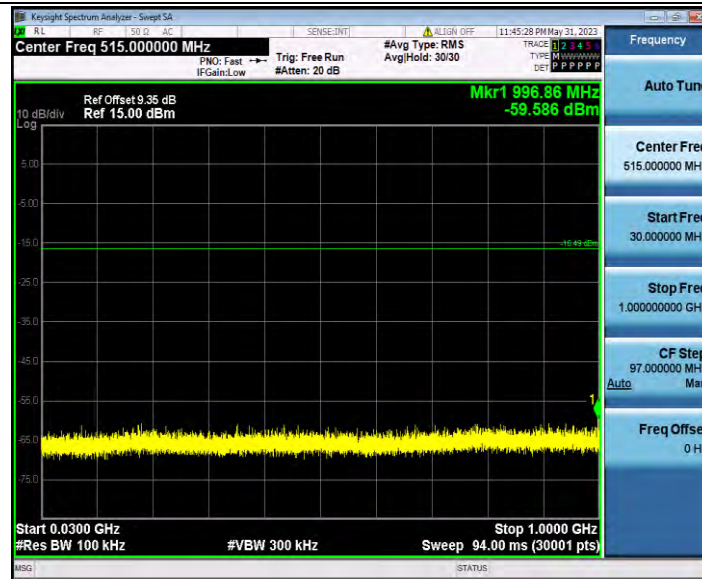
DH1_Ant1_2441_30~1000



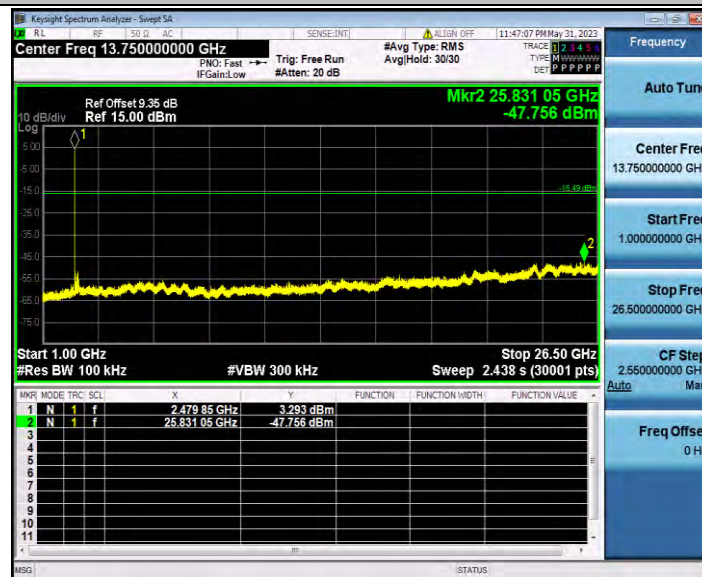
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



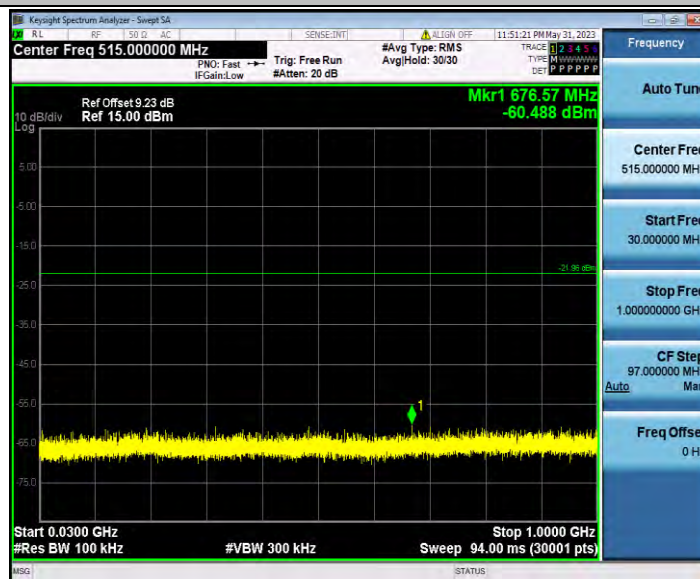
DH1_Ant1_2480_30~1000



DH1_Ant1_2480_1000~26500



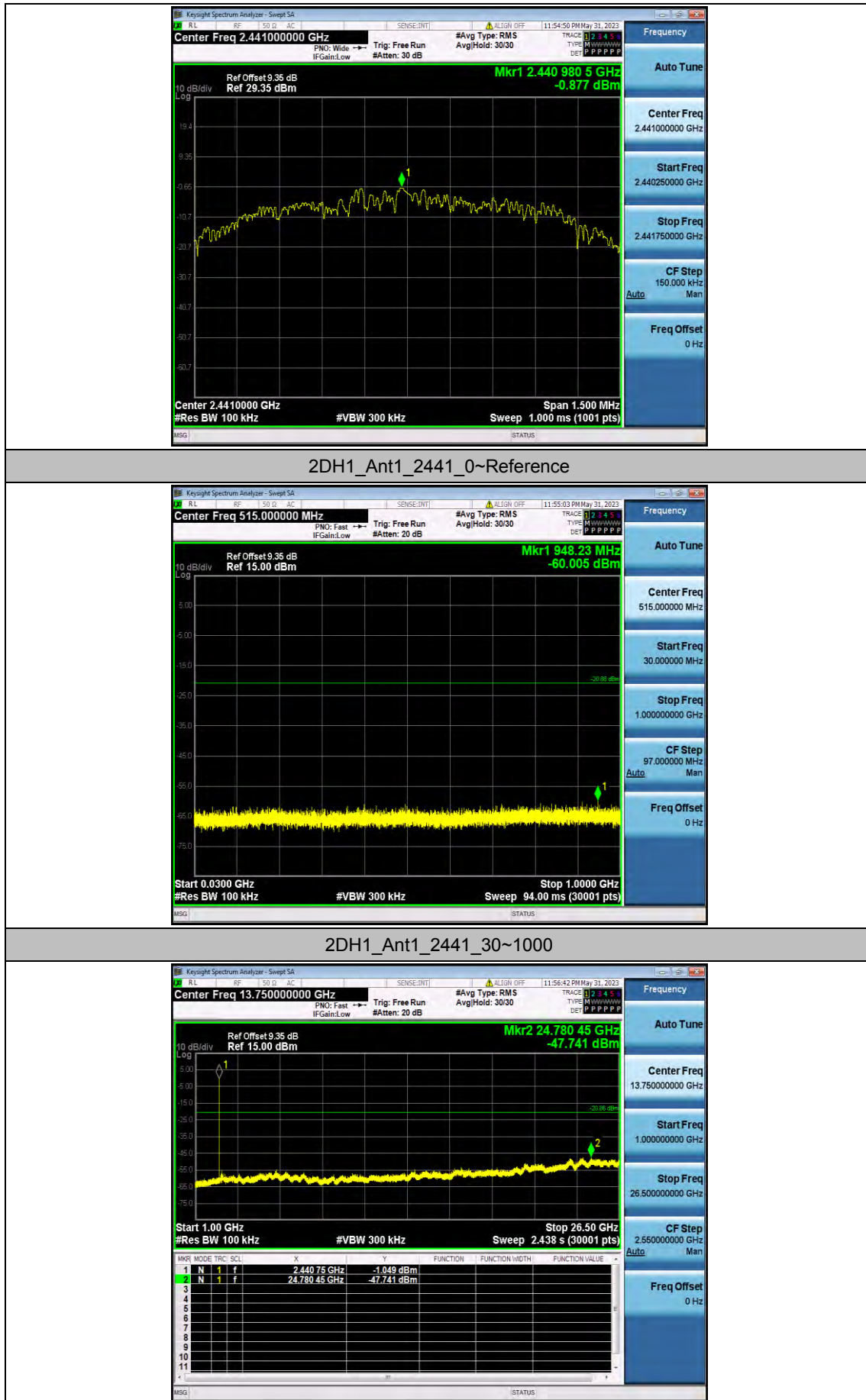
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



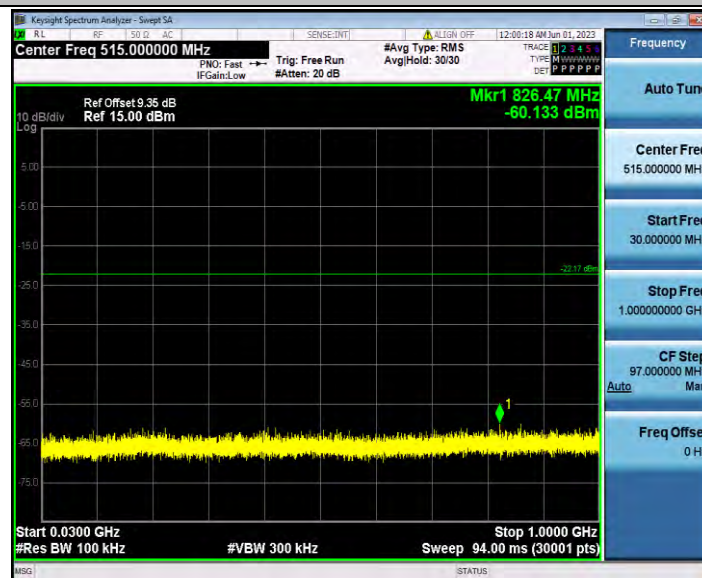
2DH1_Ant1_2402_1000~26500



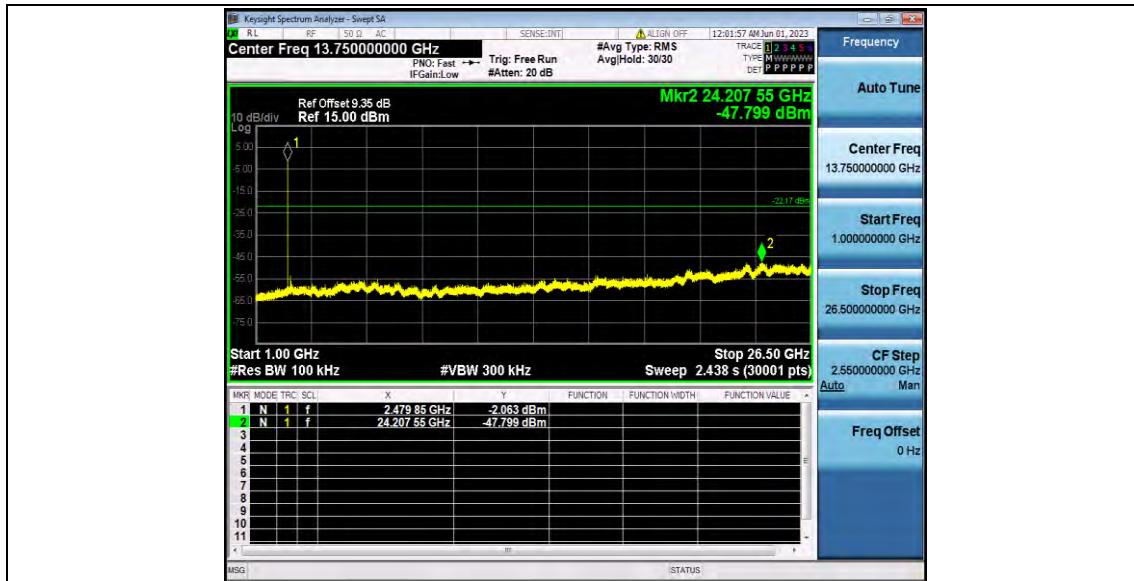
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



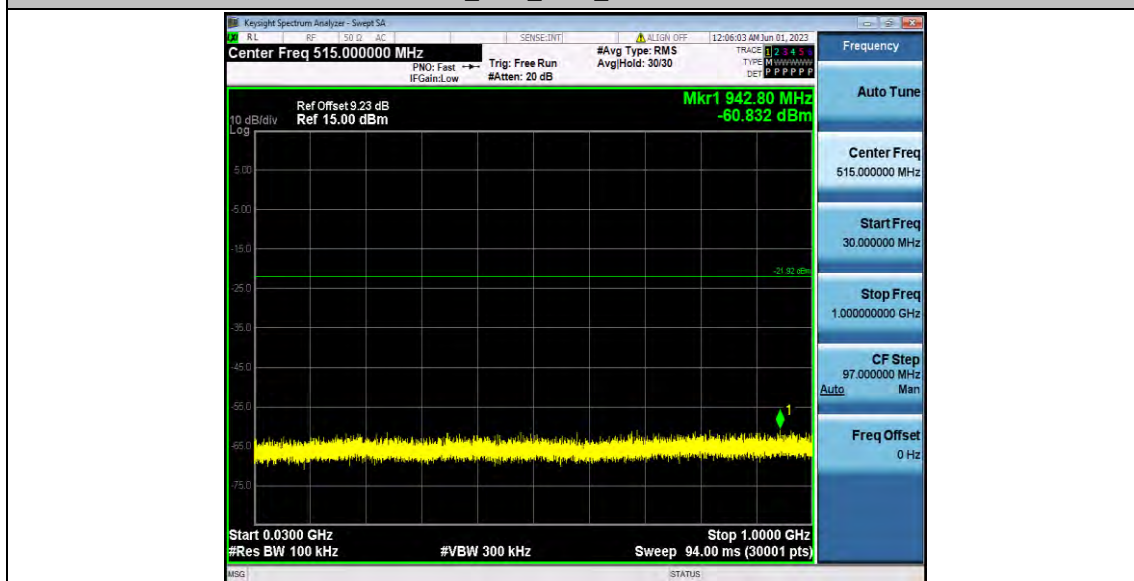
2DH1_Ant1_2480_30~1000

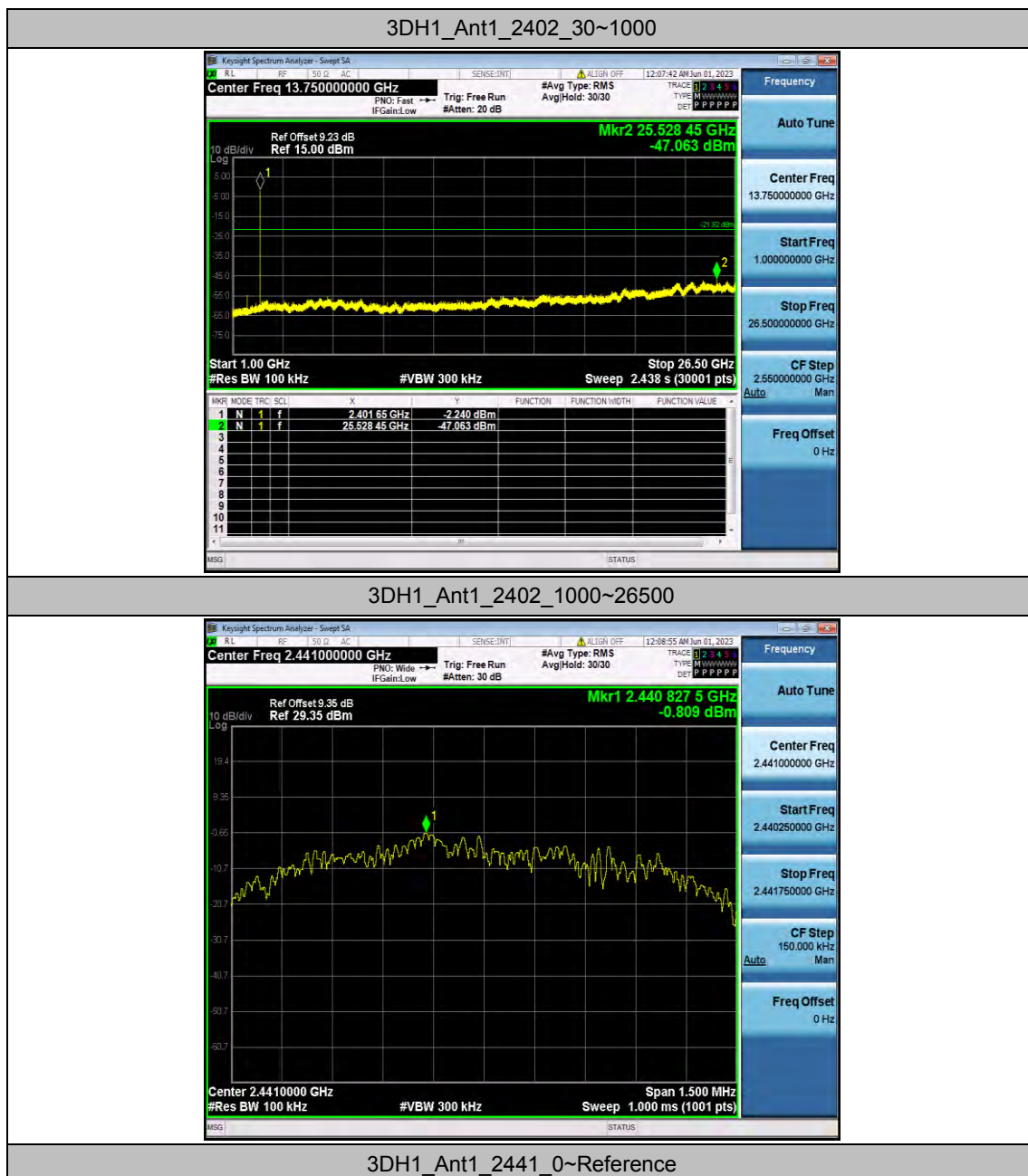


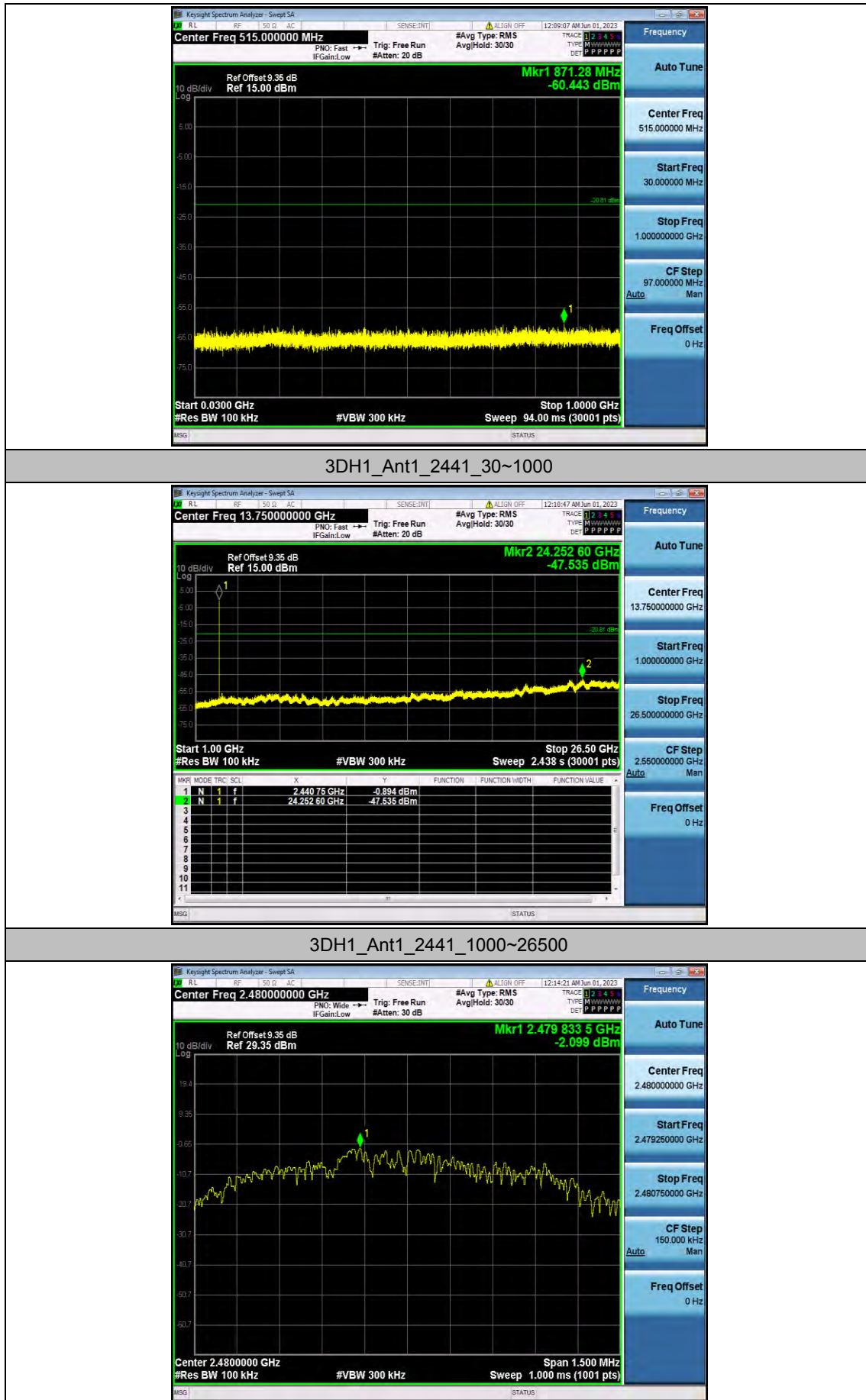
2DH1_Ant1_2480_1000~26500



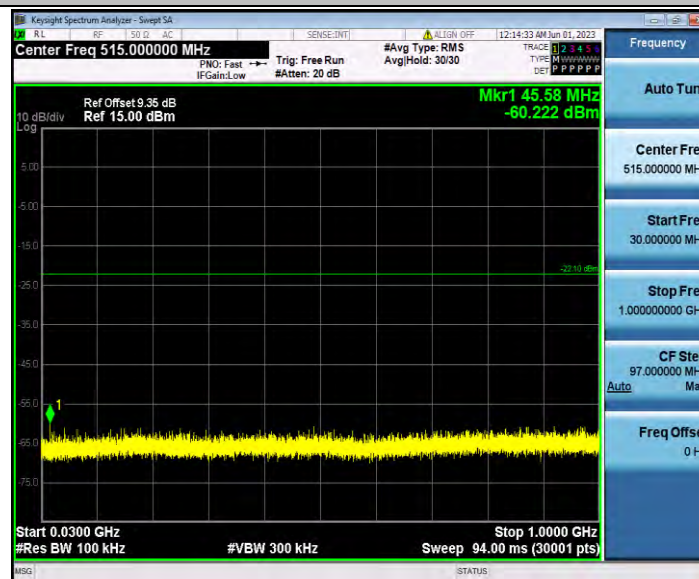
3DH1_Ant1_2402_0~Reference







3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500