

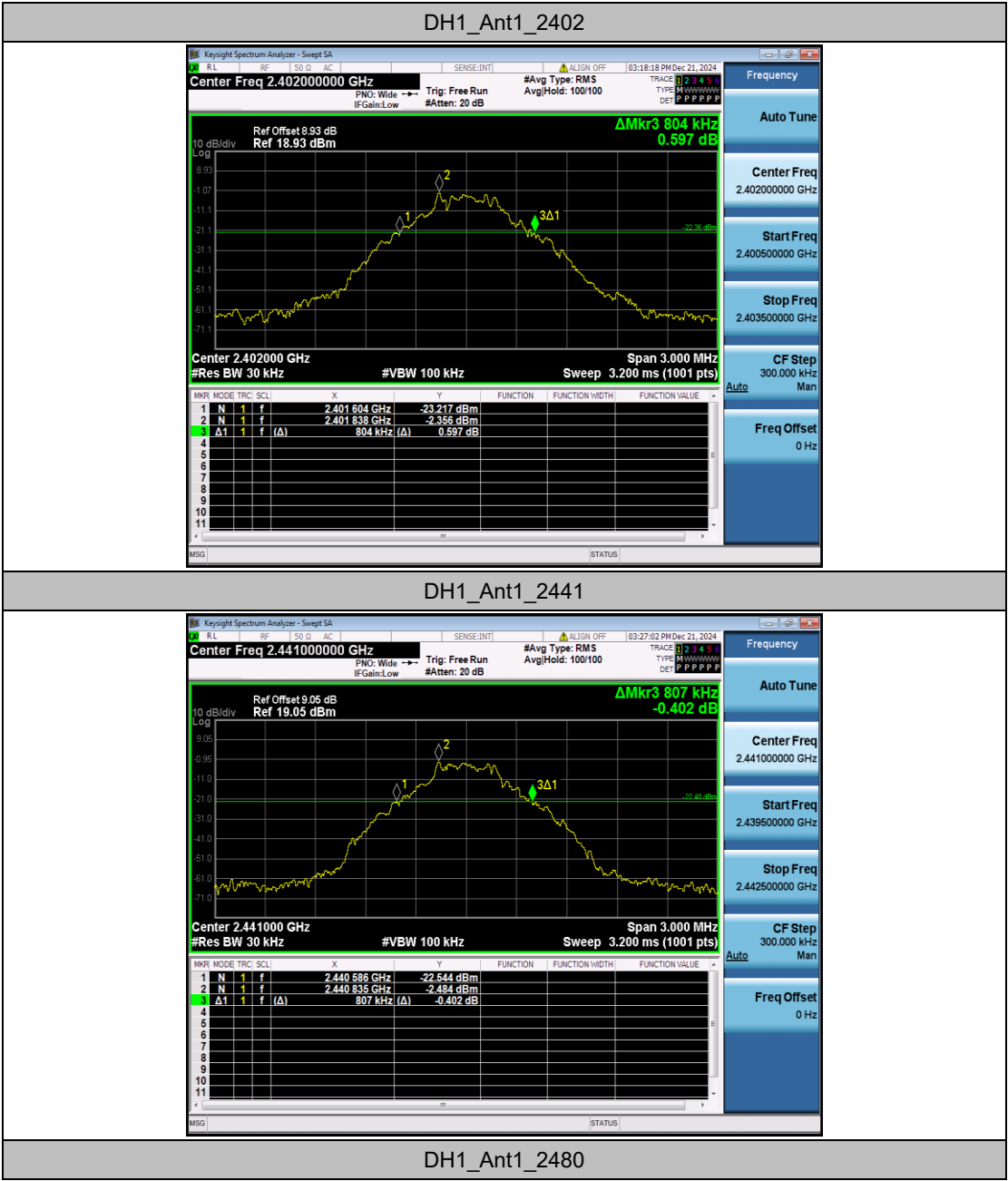
Case No. : <u>GTS20241212007</u>	
Ambient Condition: <u>22</u> °C, <u>48</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2024.12.21</u>	Test Engineer: <u>Evan ouyang</u>

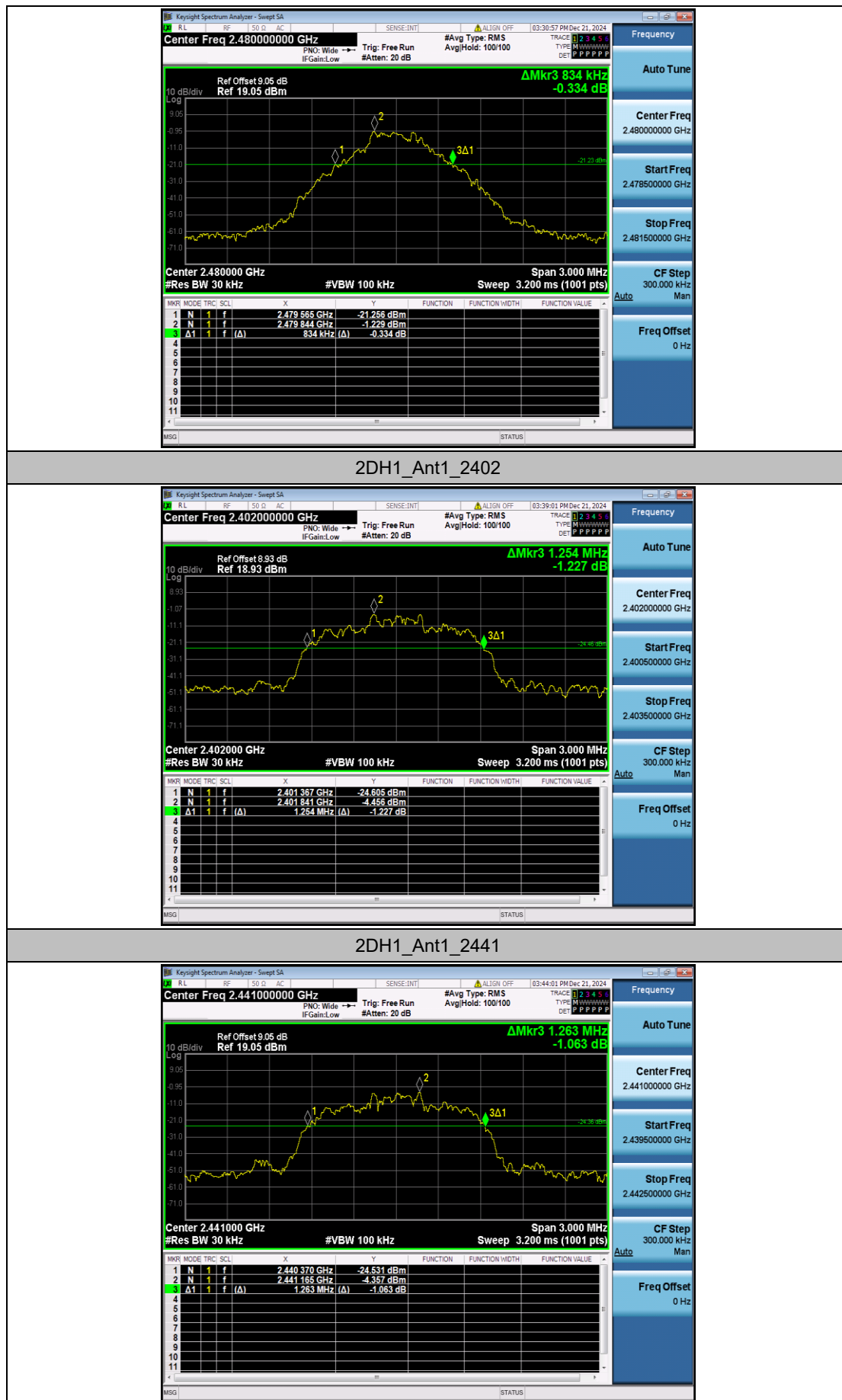
Appendix A.1: 20dB Emission Bandwidth

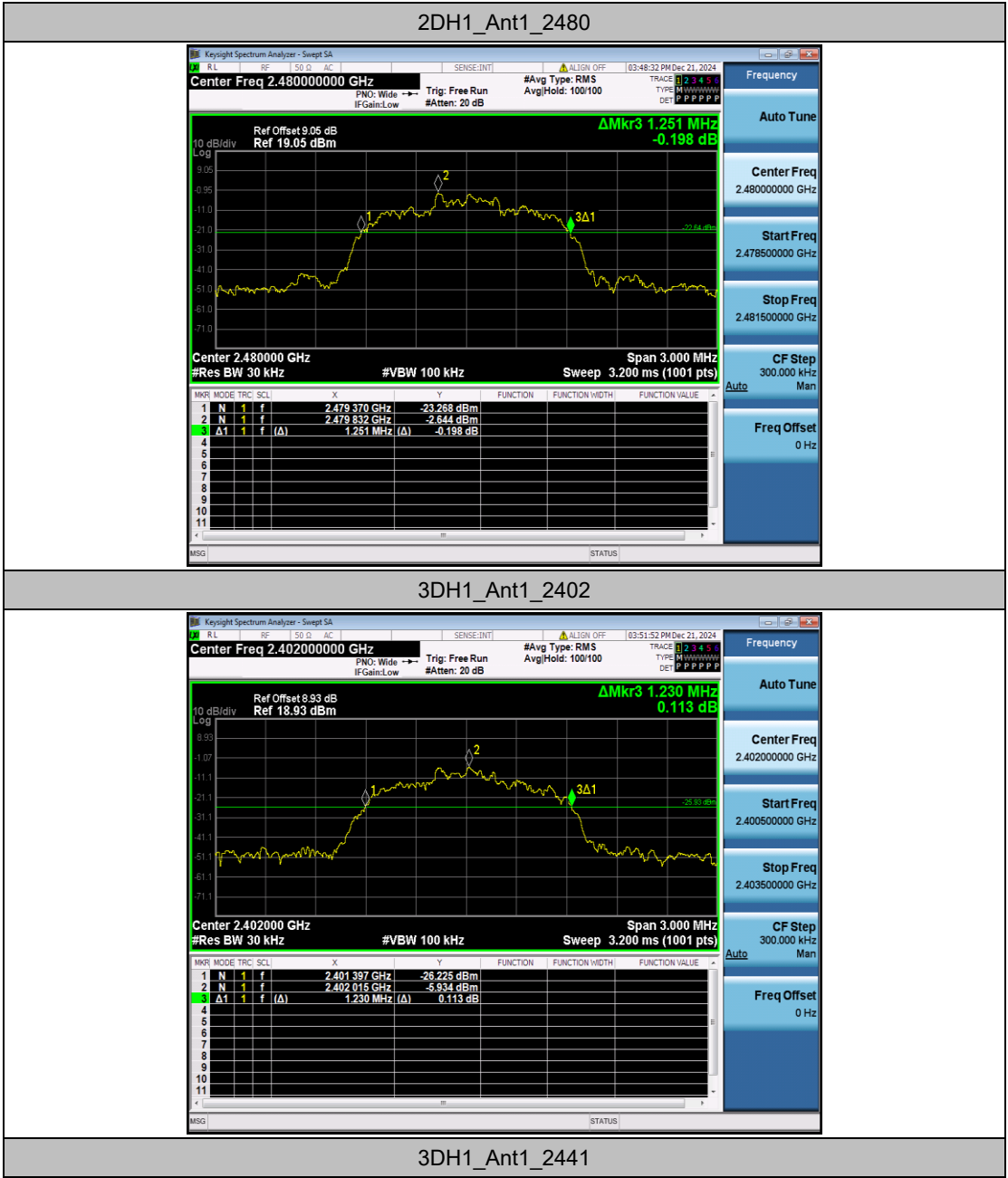
Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.804	2401.604	2402.408	---	---
		2441	0.807	2440.586	2441.393	---	---
		2480	0.834	2479.565	2480.399	---	---
2DH1	Ant1	2402	1.254	2401.367	2402.621	---	---
		2441	1.263	2440.370	2441.633	---	---
		2480	1.251	2479.370	2480.621	---	---
3DH1	Ant1	2402	1.230	2401.397	2402.627	---	---
		2441	1.209	2440.406	2441.615	---	---
		2480	1.257	2479.370	2480.627	---	---

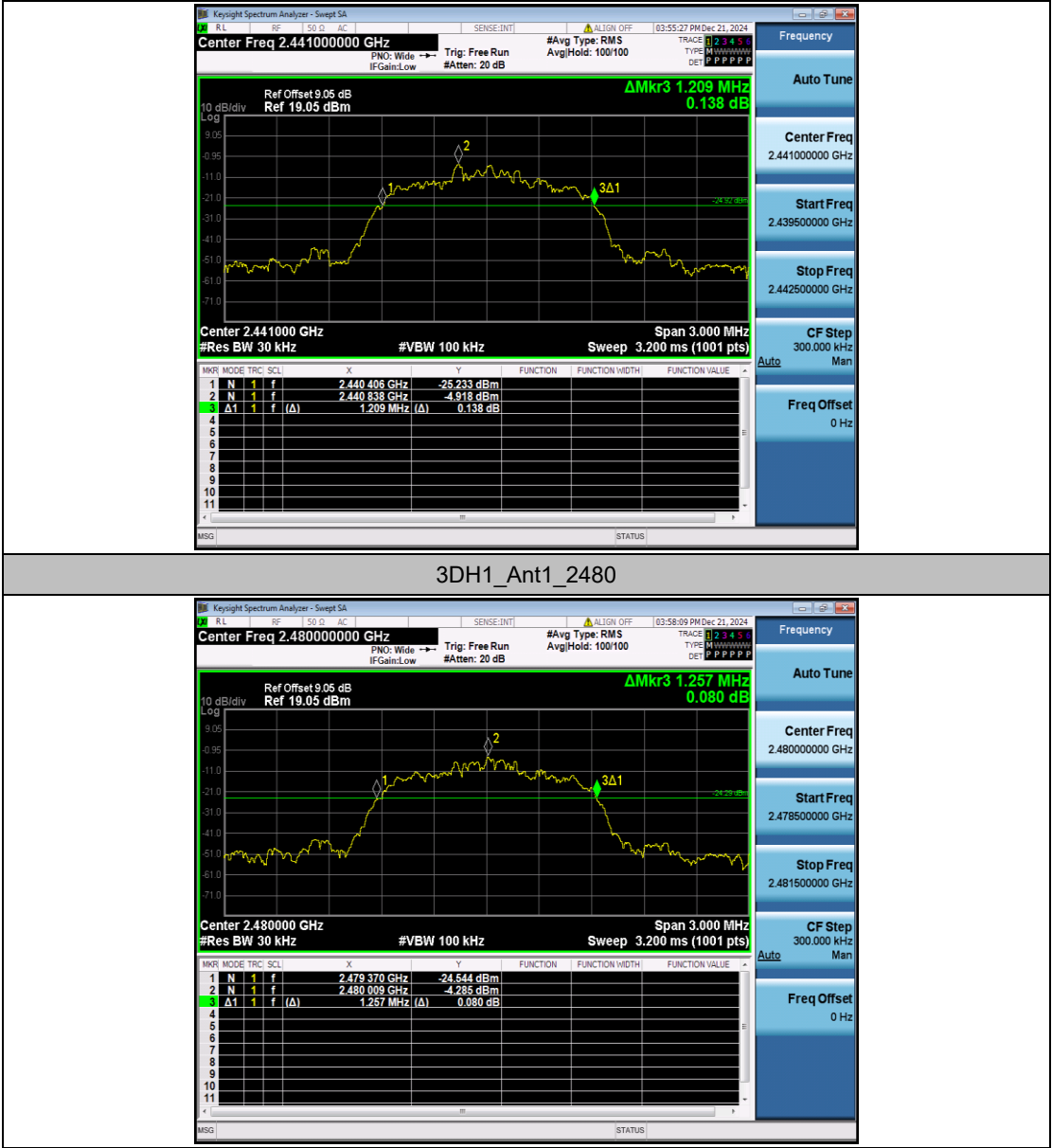
Test Graphs







3DH1_Ant1_2441

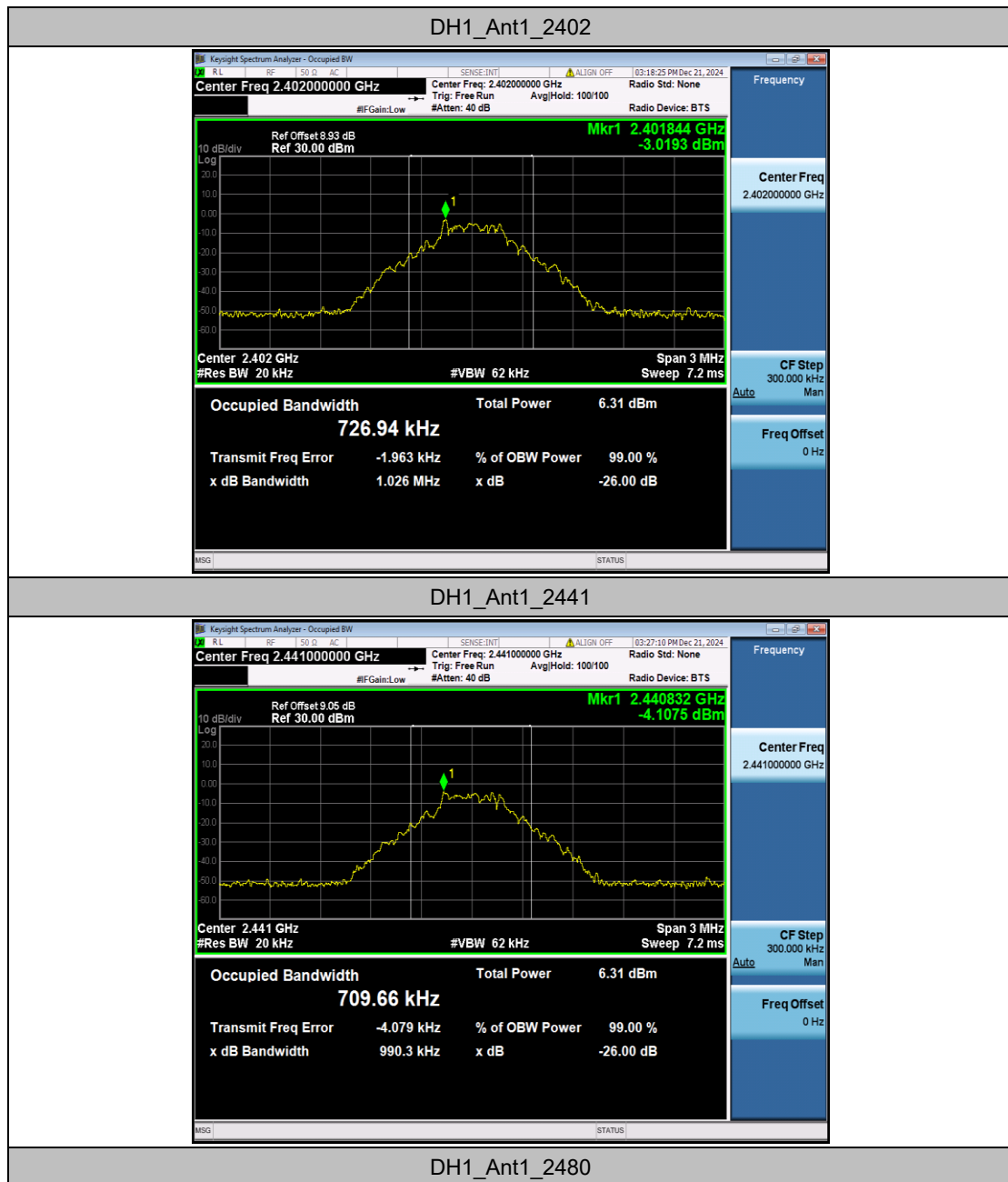


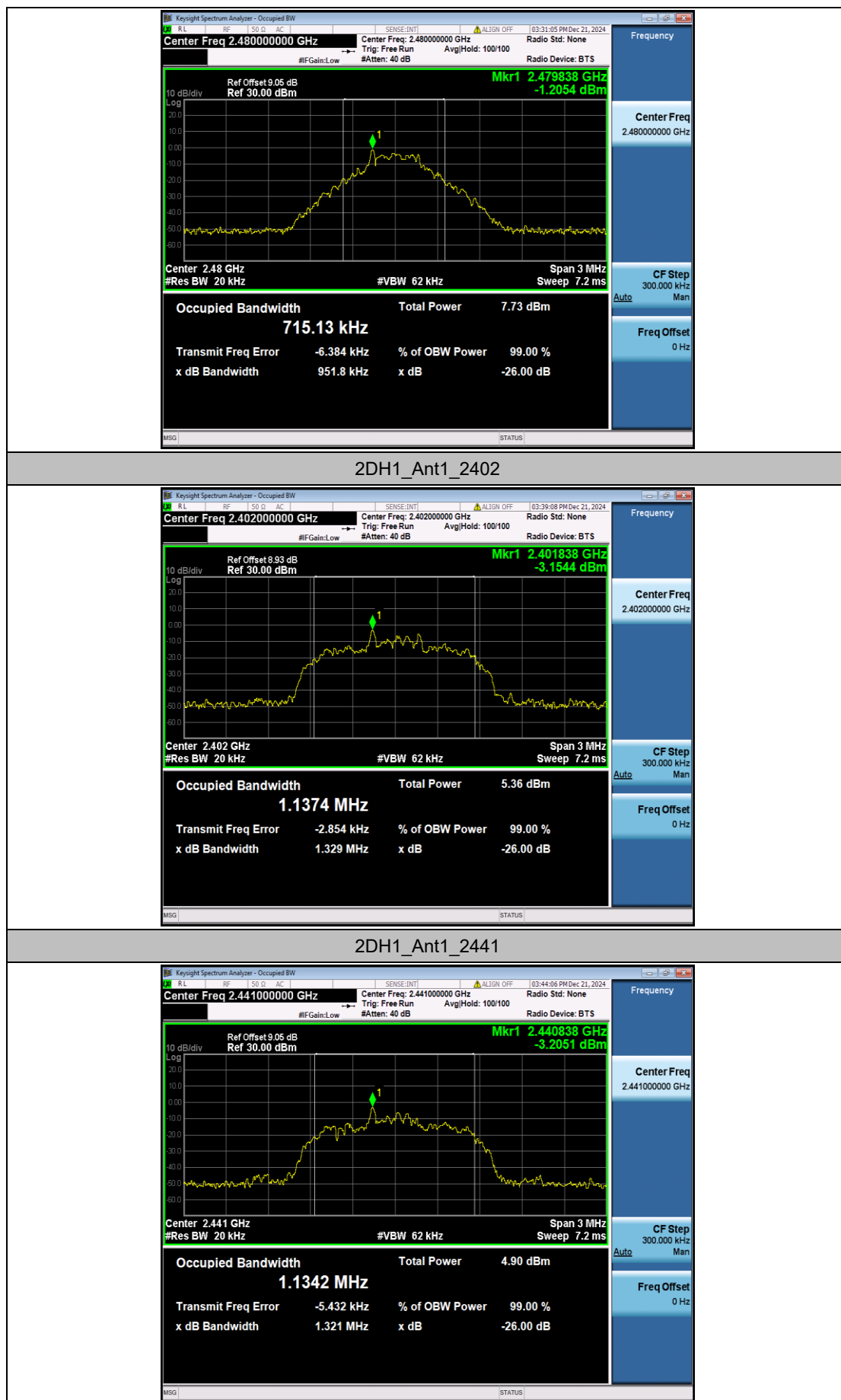
Appendix A.2: Occupied Channel Bandwidth

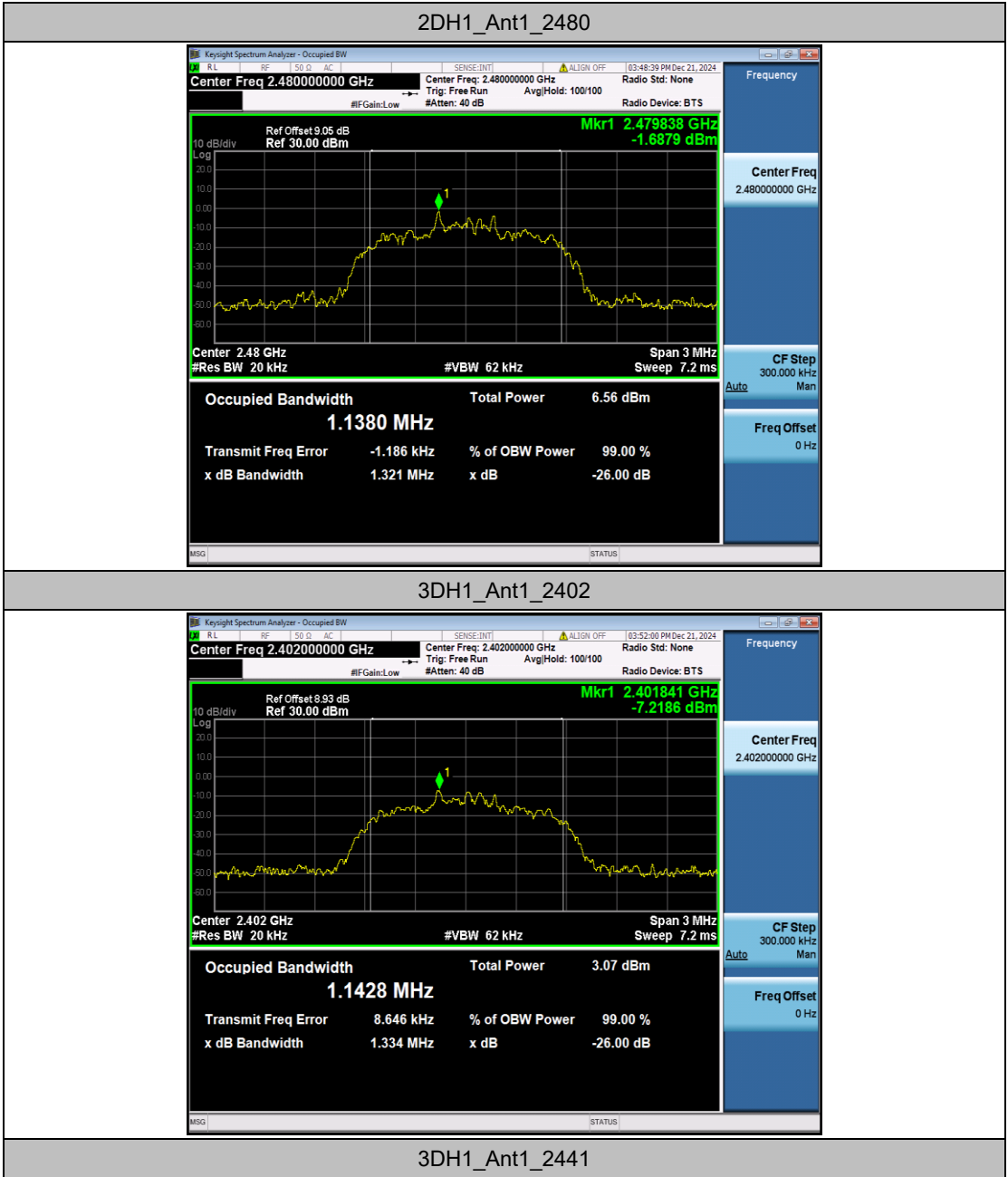
Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.72694	2401.6346	2402.3615	---	---
		2441	0.70966	2440.6411	2441.3508	---	---
		2480	0.71513	2479.6361	2480.3512	---	---
2DH1	Ant1	2402	1.1374	2401.4285	2402.5659	---	---
		2441	1.1342	2440.4275	2441.5617	---	---
		2480	1.1380	2479.4298	2480.5678	---	---
3DH1	Ant1	2402	1.1428	2401.4373	2402.5801	---	---
		2441	1.1325	2440.4415	2441.5740	---	---
		2480	1.1334	2479.4406	2480.5740	---	---

Test Graphs







3DH1_Ant1_2402

Keysight Spectrum Analyzer - Occupied BW

Center Freq 2.402000000 GHz

Center Freq: 2.402000000 GHz

Trig: Free Run

Avg/Hold: 100/100

Radio Std: None

Radio Device: BTS

Ref Offset 8.93 dB

Ref 30.00 dBm

10 dB/div

Log

Mkr1 2.401841 GHz

-7.2186 dBm

Center 2.402 GHz

#Res BW 20 kHz

#VBW 62 kHz

Span 3 MHz

Sweep 7.2 ms

Occupied Bandwidth

1.1428 MHz

Total Power

3.07 dBm

Transmit Freq Error

8.646 kHz

% of OBW Power

99.00 %

x dB Bandwidth

1.334 MHz

x dB

-26.00 dB

MSG

STATUS

Frequency

Center Freq

2.402000000 GHz

CF Step

300.000 kHz

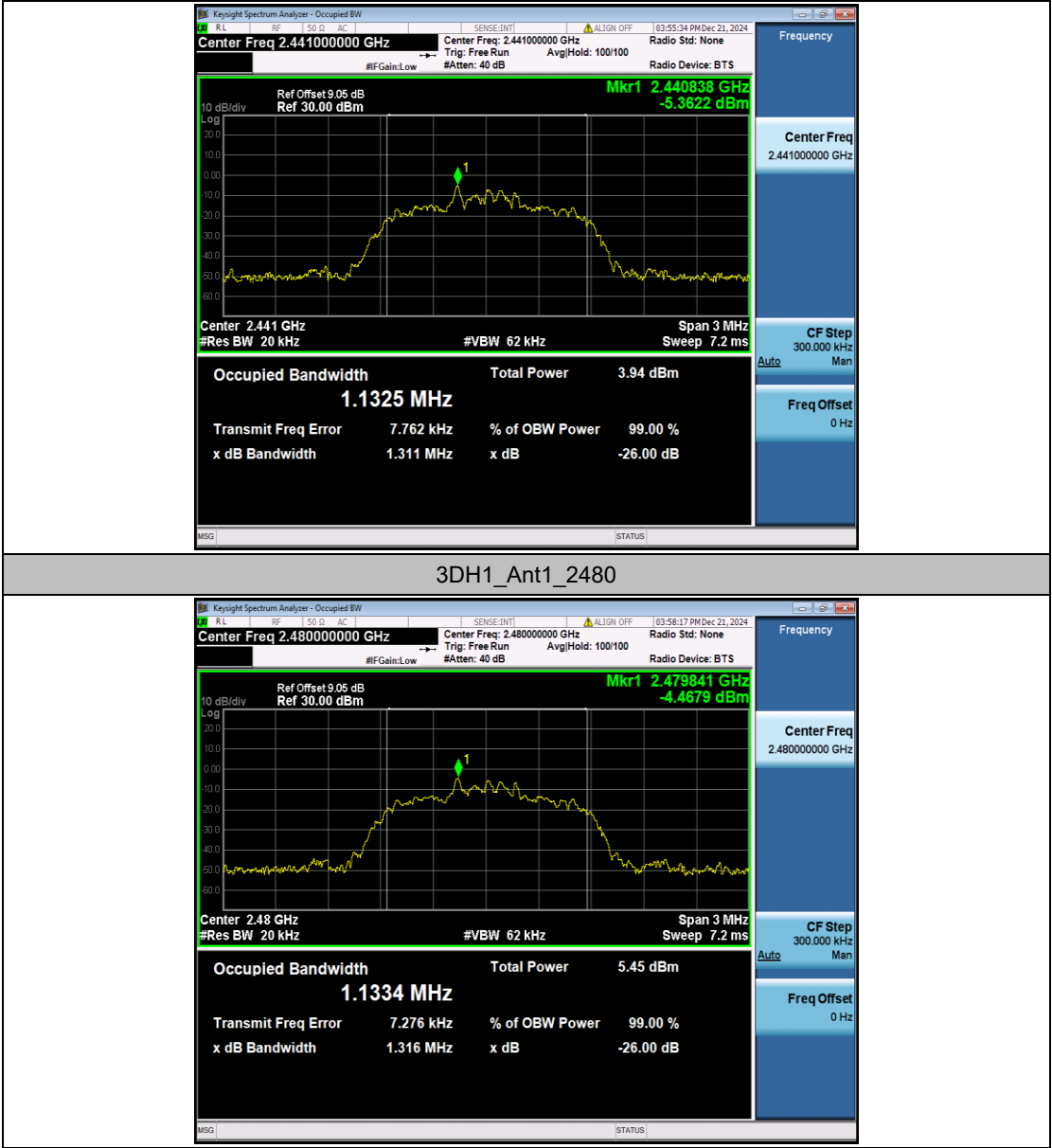
Auto

Man

Freq Offset

0 Hz

3DH1_Ant1_2441



Appendix A.3: Maximum conducted output power

Test Result Peak

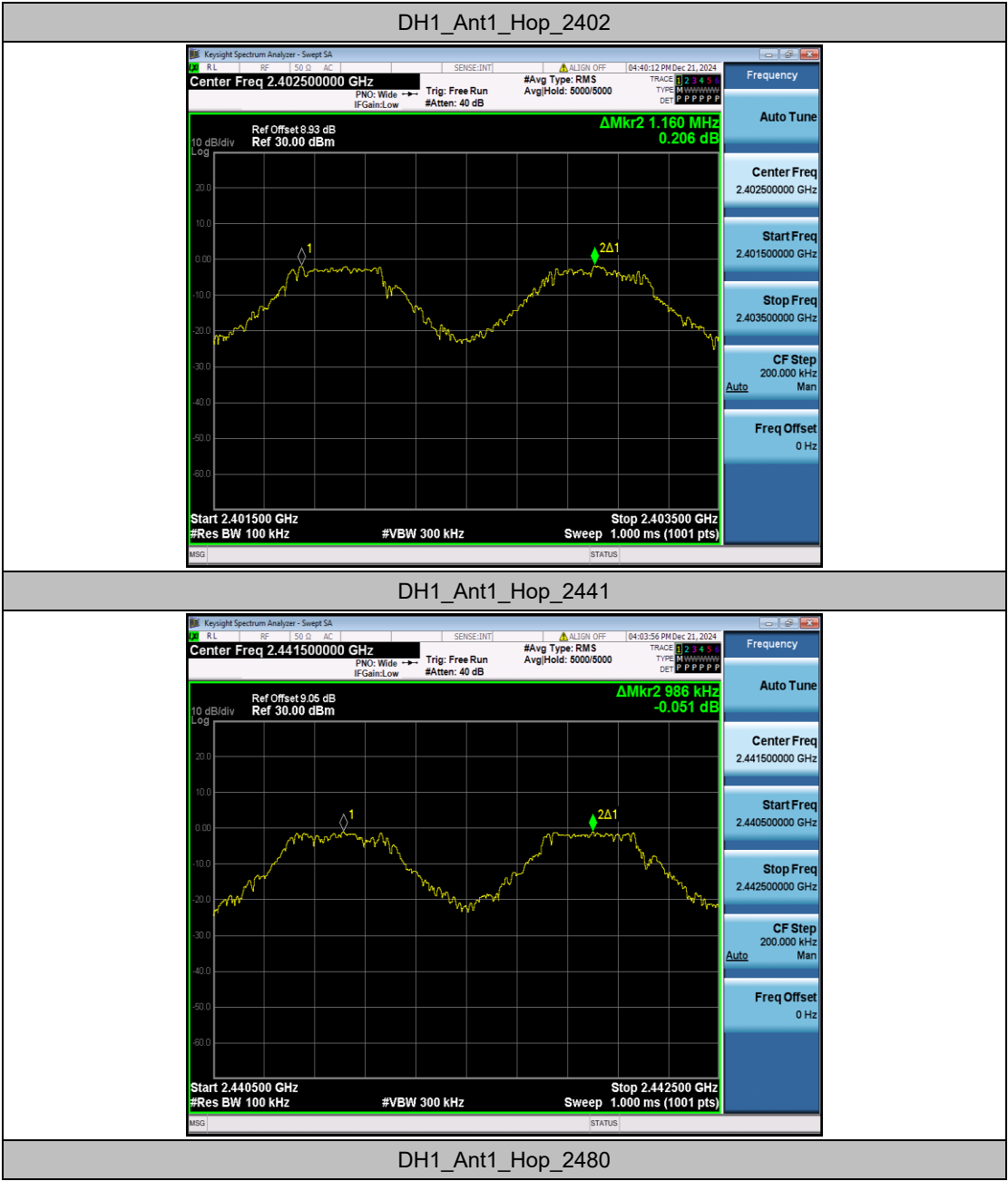
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	0.78	≤20.97	PASS
		2441	0.43	≤20.97	PASS
		2480	1.86	≤20.97	PASS
2DH1	Ant1	2402	-0.30	≤20.97	PASS
		2441	-0.43	≤20.97	PASS
		2480	1.03	≤20.97	PASS
3DH1	Ant1	2402	-1.72	≤20.97	PASS
		2441	-1.04	≤20.97	PASS
		2480	0.28	≤20.97	PASS

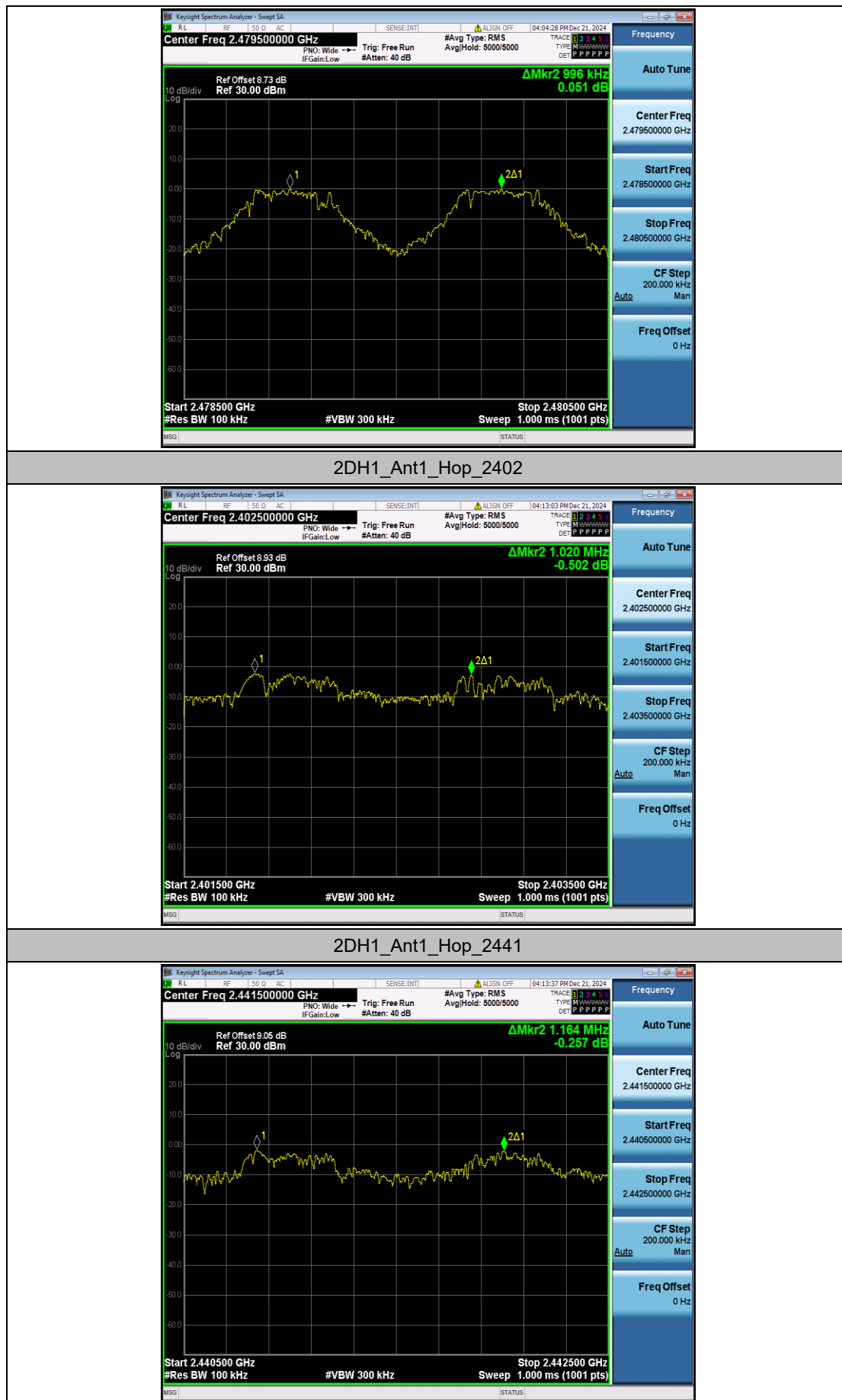
Appendix A.4: Carrier frequency separation

Test Result

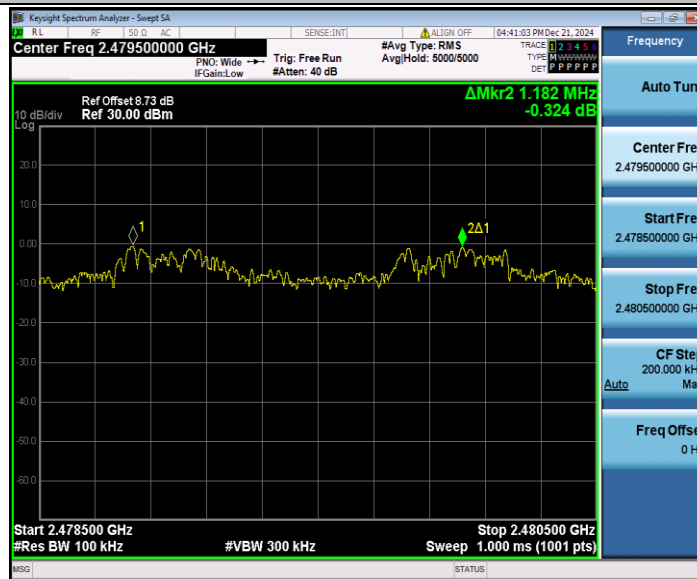
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.16	≥ 0.834	PASS
		Hop_2441	0.986	≥ 0.834	PASS
		Hop_2480	0.996	≥ 0.834	PASS
2DH1	Ant1	Hop_2402	1.02	≥ 0.842	PASS
		Hop_2441	1.164	≥ 0.842	PASS
		Hop_2480	1.182	≥ 0.842	PASS
3DH1	Ant1	Hop_2402	0.84	≥ 0.838	PASS
		Hop_2441	0.968	≥ 0.838	PASS
		Hop_2480	1.004	≥ 0.838	PASS

Test Graphs





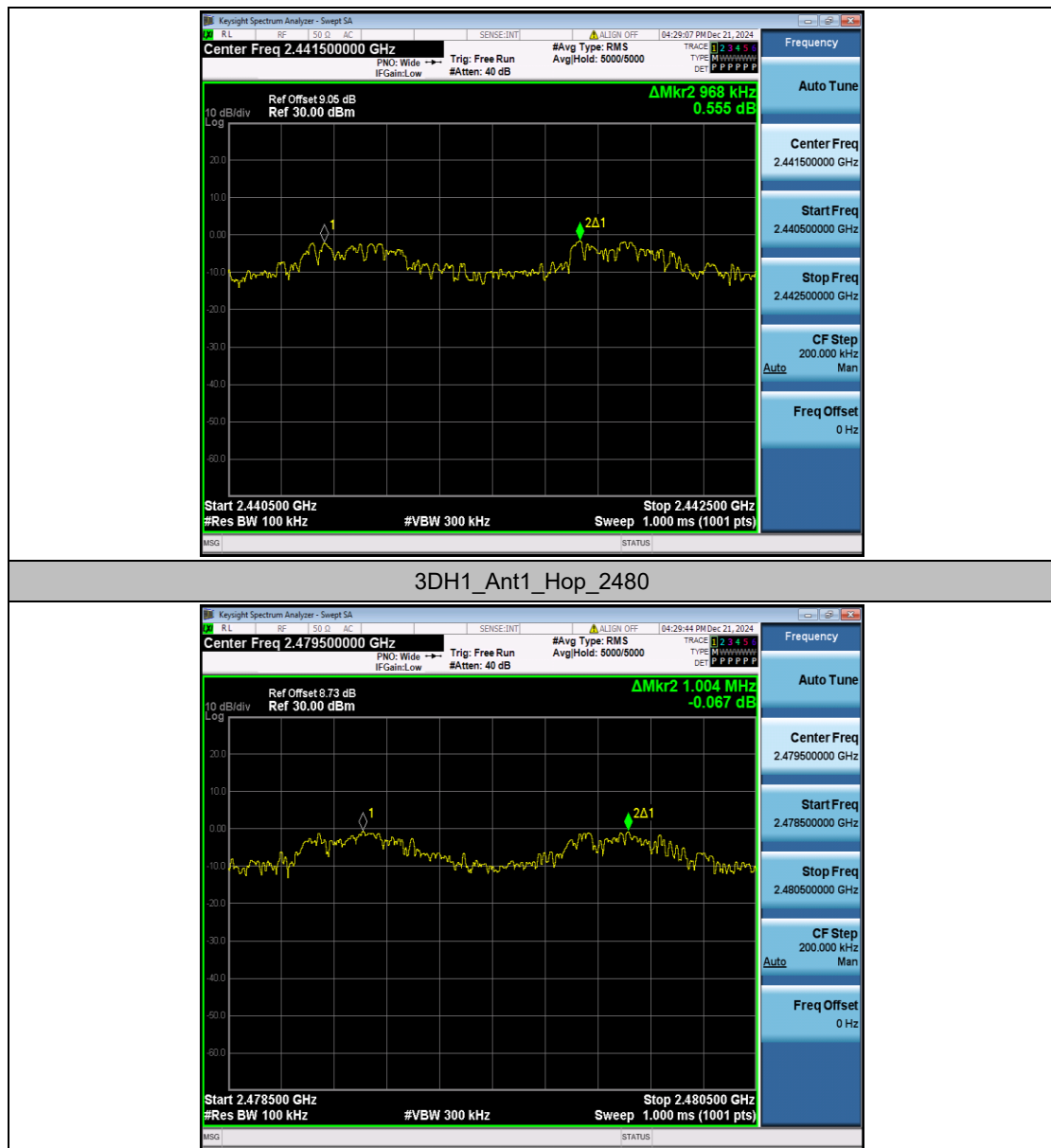
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

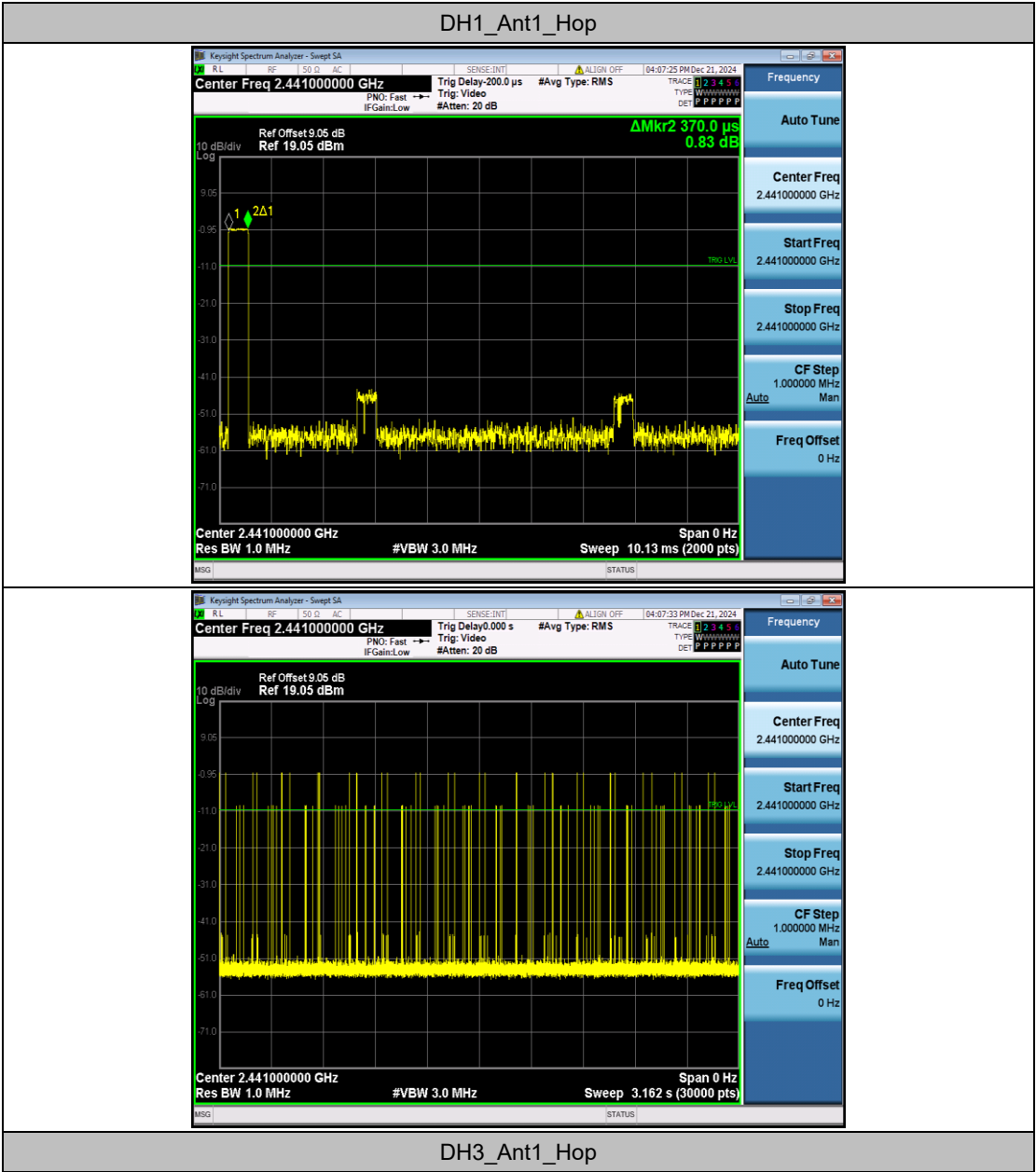


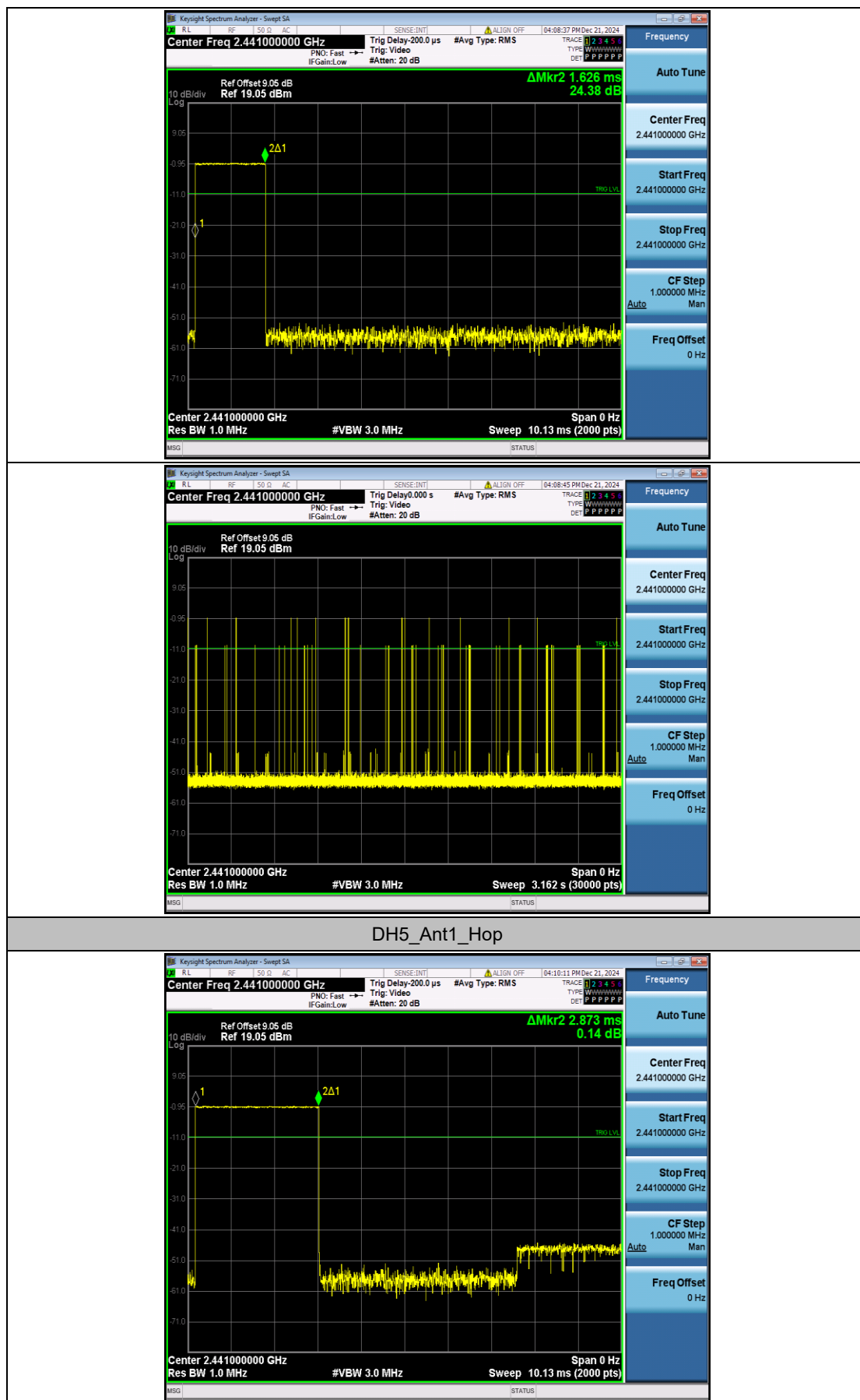
Appendix A.5: Time of occupancy

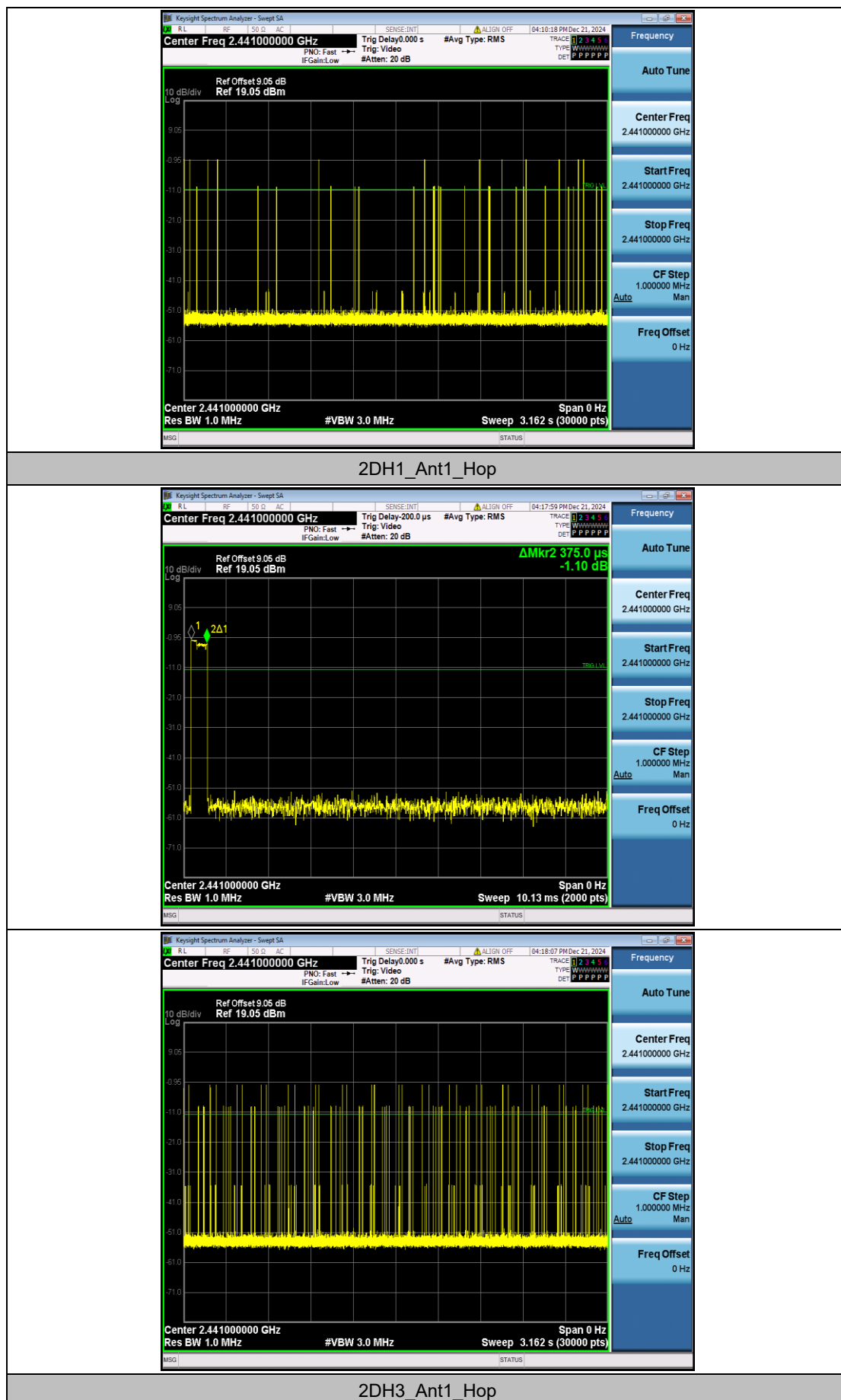
Test Result

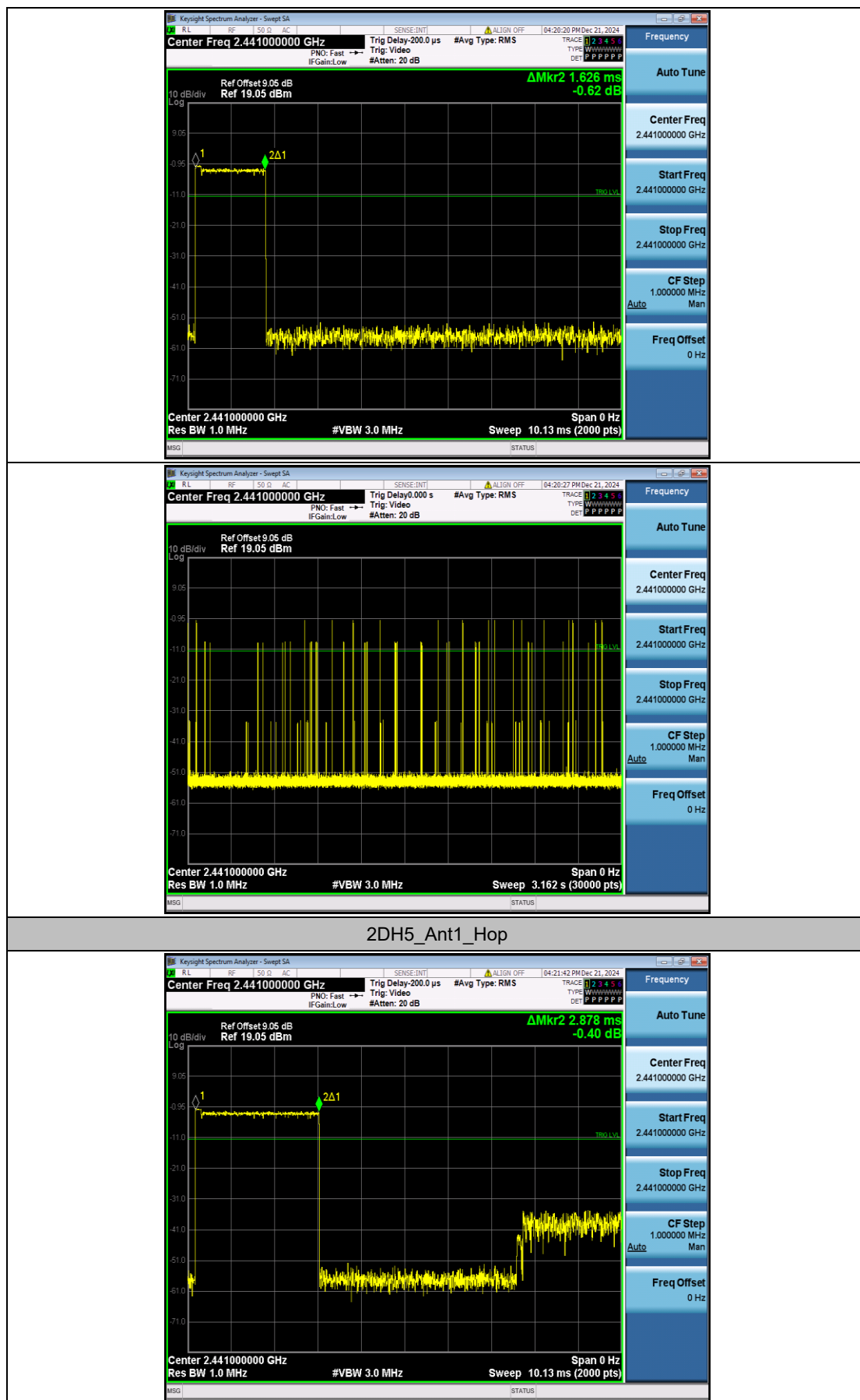
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.626	150	0.244	≤0.4	PASS
DH5	Ant1	Hop	2.873	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.626	170	0.276	≤0.4	PASS
2DH5	Ant1	Hop	2.878	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.626	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.878	120	0.345	≤0.4	PASS

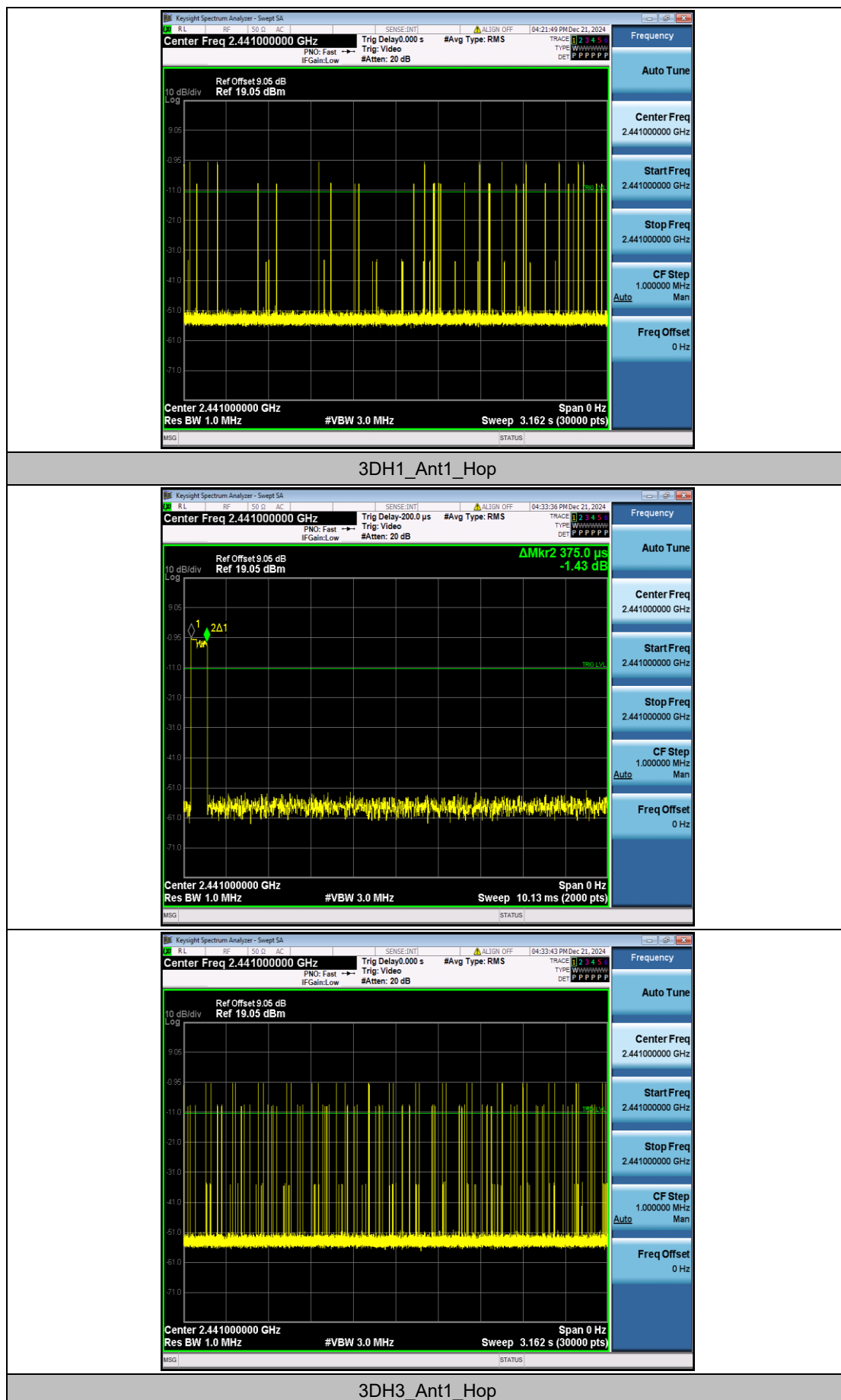
Test Graphs

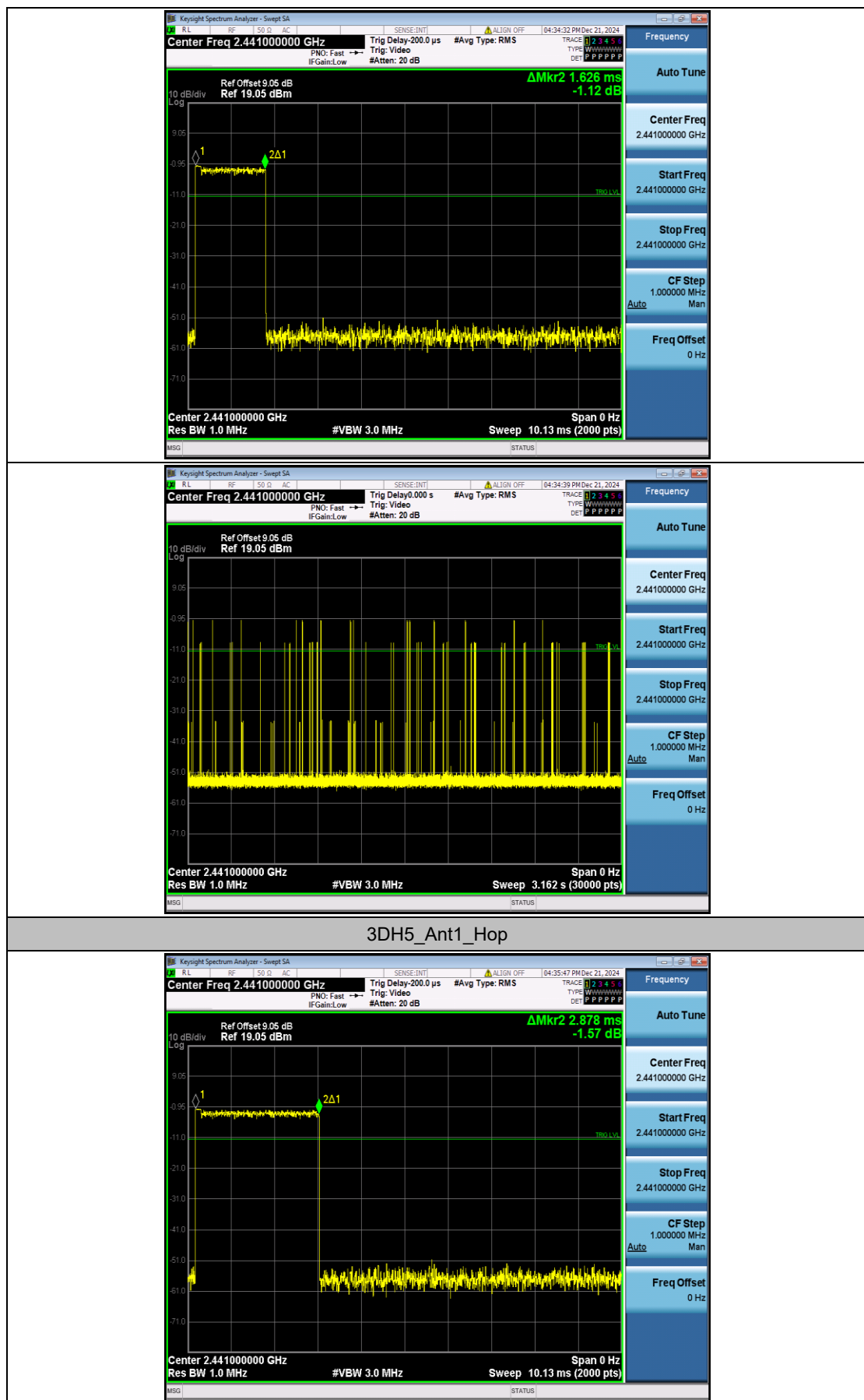


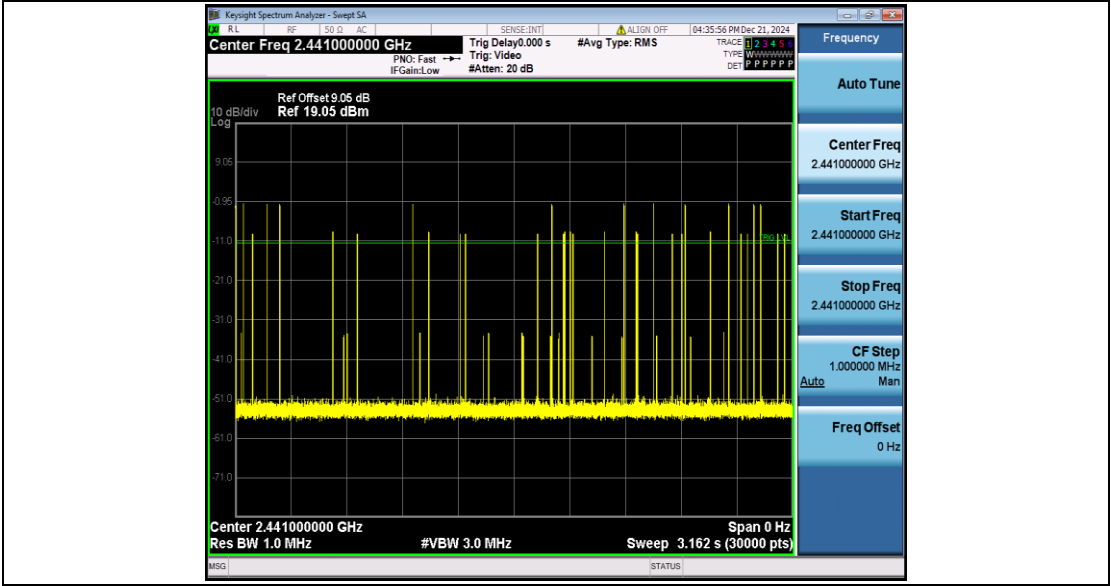










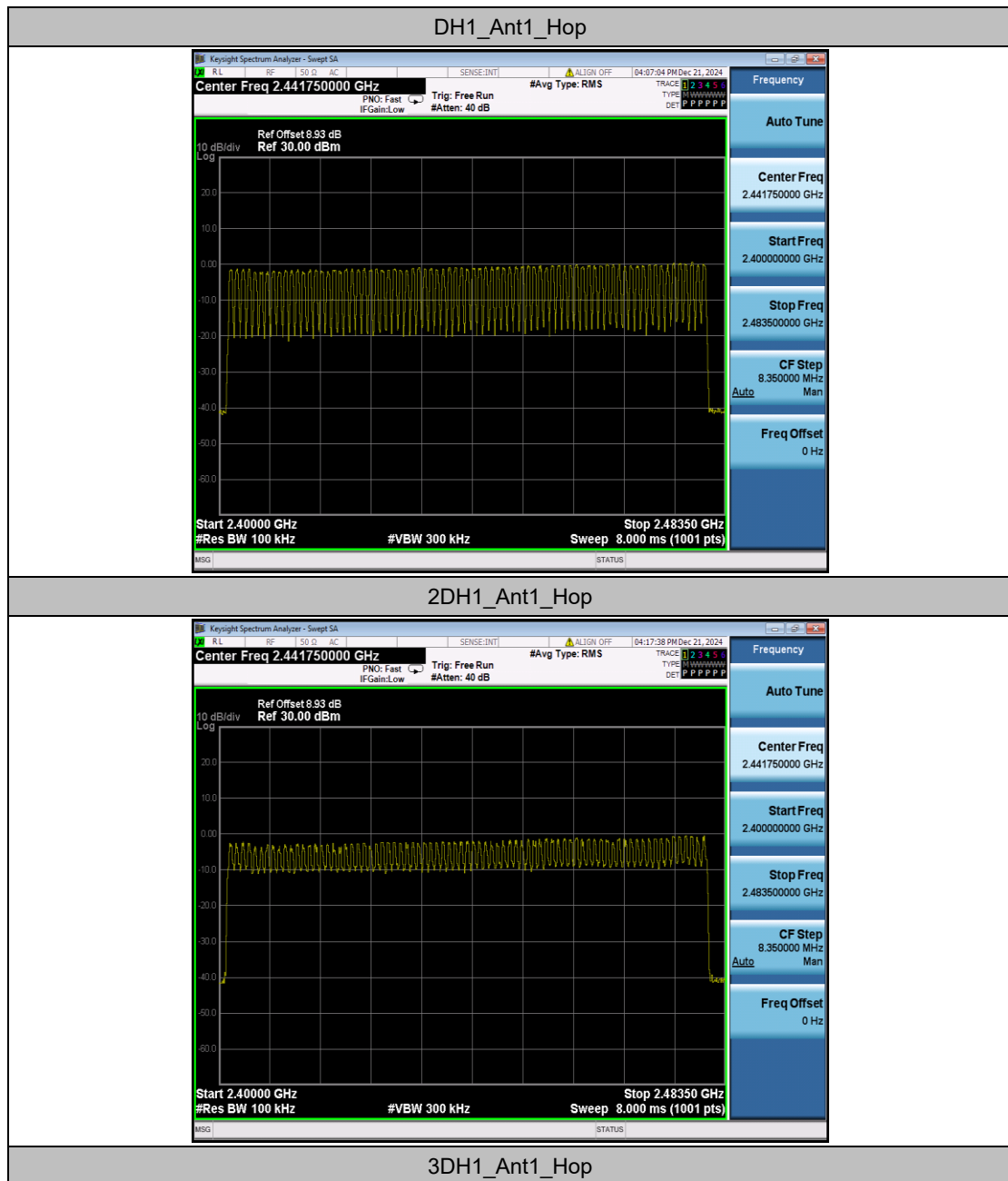


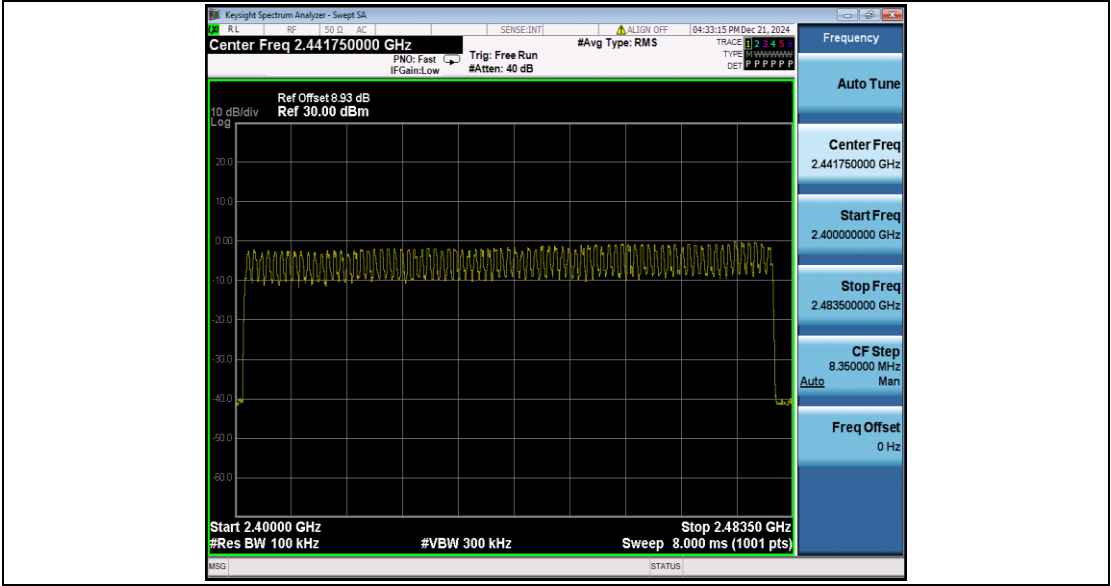
Appendix A.6: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

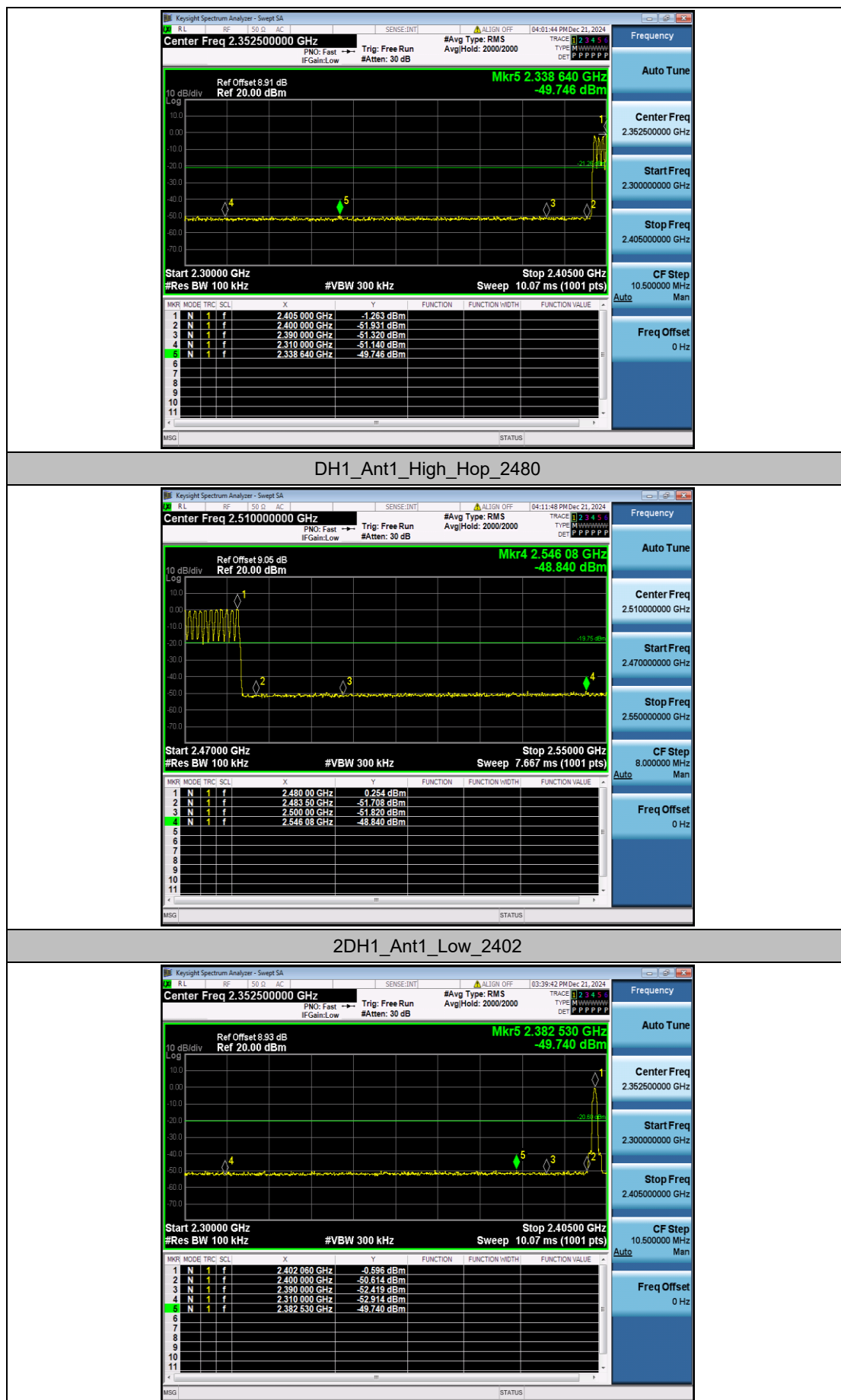




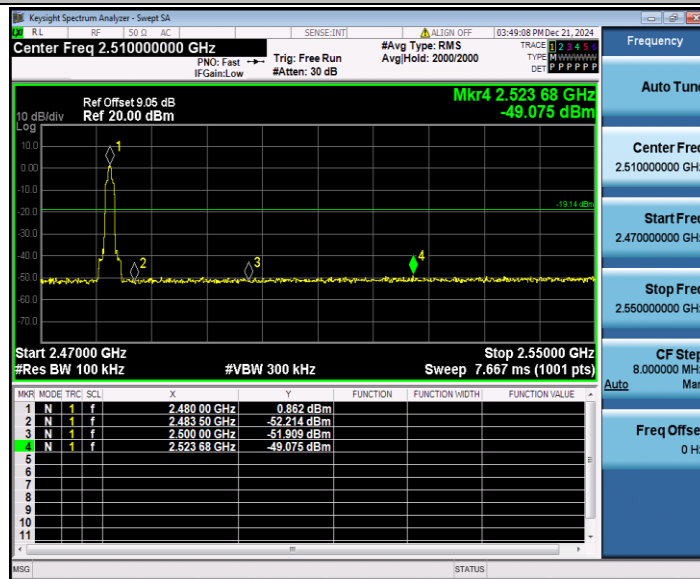
Appendix A.7: Band edge measurements

Test Result

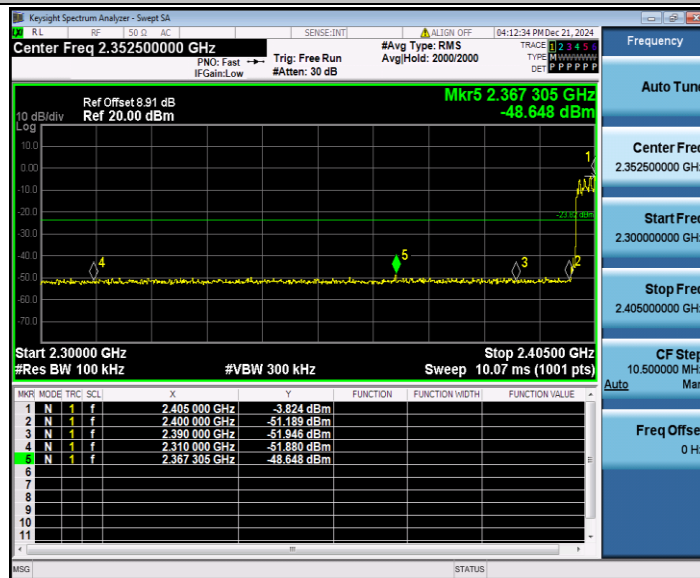
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	0.34	-49.14	≤ -19.66	PASS
		High	2480	1.64	-49.45	≤ -18.36	PASS
		Low	Hop_2402	-1.26	-49.75	≤ -21.26	PASS
		High	Hop_2480	0.25	-48.84	≤ -19.75	PASS
2DH1	Ant1	Low	2402	-0.60	-49.74	≤ -20.6	PASS
		High	2480	0.86	-49.08	≤ -19.14	PASS
		Low	Hop_2402	-3.82	-48.65	≤ -23.82	PASS
		High	Hop_2480	-0.54	-49.01	≤ -20.54	PASS
3DH1	Ant1	Low	2402	-2.04	-50.03	≤ -22.04	PASS
		High	2480	0.00	-48.58	≤ -20	PASS
		Low	Hop_2402	-4.45	-49.8	≤ -24.45	PASS
		High	Hop_2480	-0.12	-47.8	≤ -20.12	PASS



2DH1_Ant1_High_2480



2DH1_Ant1_Low_Hop_2402



2DH1_Ant1_High_Hop_2480