

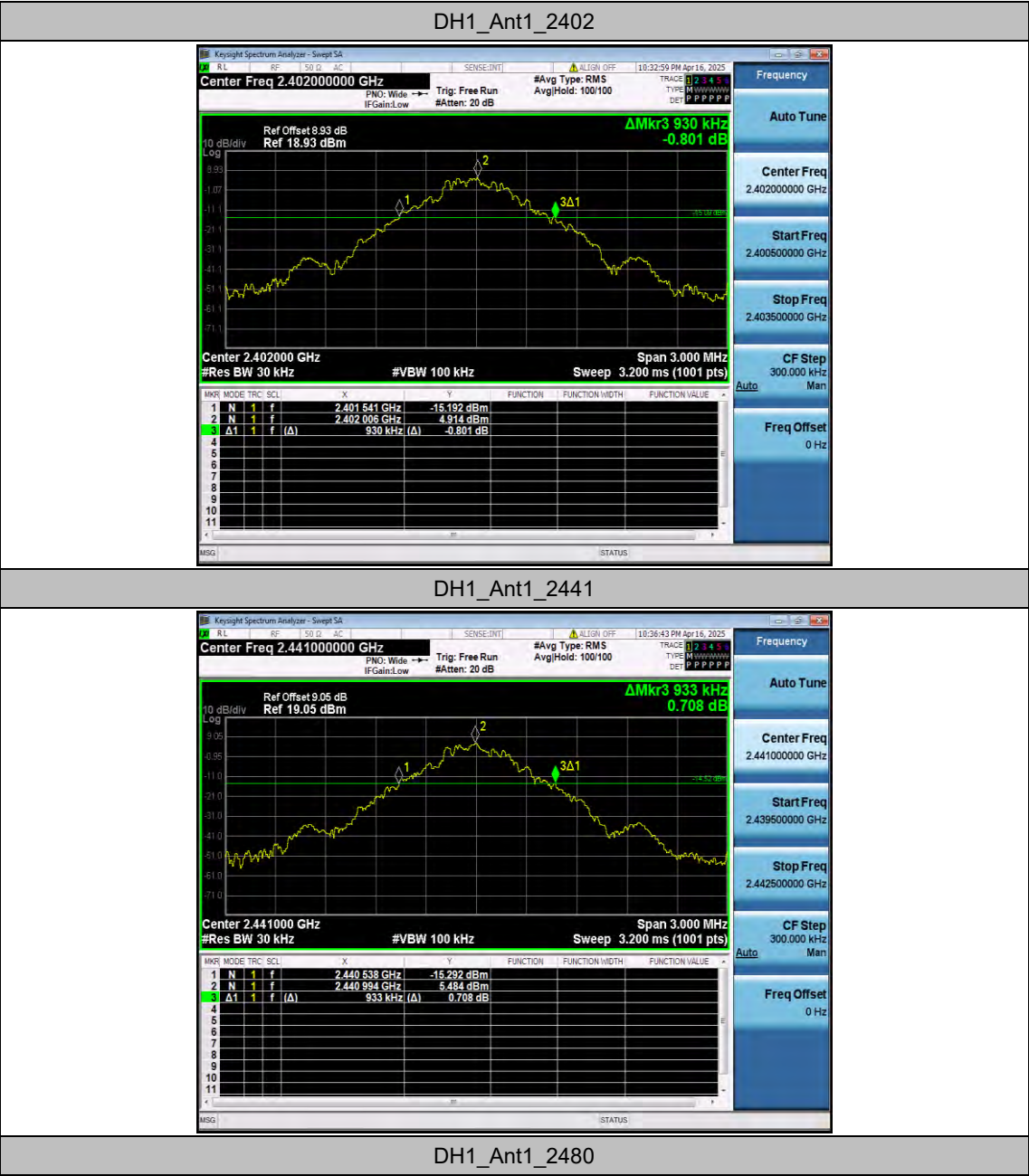
Case No. : <u>GTS20250324014-2-01</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.4.15-2025.6.28</u>	Test Engineer: <u>Evan ouyang</u>

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	0.930	2401.541	2402.471	---	---
		2441	0.933	2440.538	2441.471	---	---
		2480	0.930	2479.535	2480.465	---	---
2DH1	Ant1	2402	1.470	2401.226	2402.696	---	---
		2441	1.434	2440.265	2441.699	---	---
		2480	1.431	2479.268	2480.699	---	---
3DH1	Ant1	2402	1.413	2401.277	2402.690	---	---
		2441	1.458	2440.262	2441.720	---	---
		2480	1.476	2479.268	2480.744	---	---

Test Graphs





2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_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	0.85833	2401.5602	2402.4186	---	---
		2441	0.86022	2440.5635	2441.4238	---	---
		2480	0.85498	2479.5638	2480.4188	---	---
2DH1	Ant1	2402	1.3472	2401.3099	2402.6571	---	---
		2441	1.3449	2440.3182	2441.6631	---	---
		2480	1.3513	2479.3089	2480.6602	---	---
3DH1	Ant1	2402	1.3433	2401.3132	2402.6565	---	---
		2441	1.3447	2440.3223	2441.6670	---	---
		2480	1.3441	2479.3167	2480.6608	---	---

Test Graphs

DH1_Ant1_2402



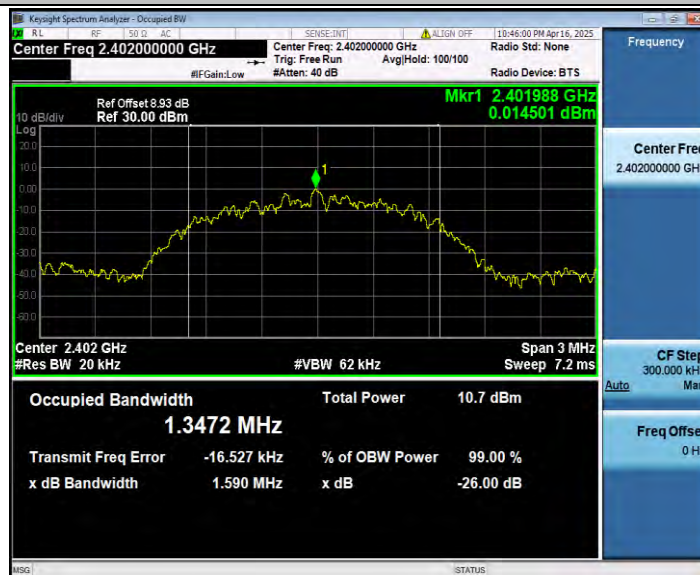
DH1_Ant1_2441



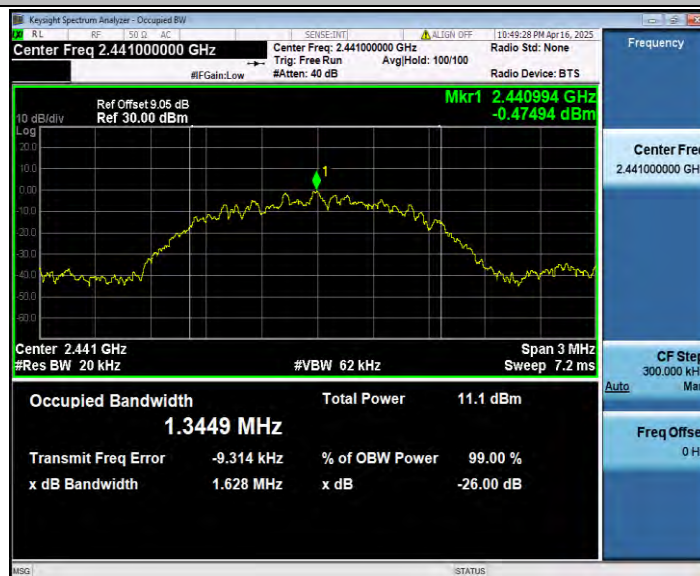
DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3D H1_Ant1_2480



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	8.88	≤30.00	PASS
		2441	8.97	≤30.00	PASS
		2480	9.72	≤30.00	PASS
2DH1	Ant1	2402	7.10	≤20.97	PASS
		2441	7.27	≤20.97	PASS
		2480	7.88	≤20.97	PASS
3DH1	Ant1	2402	7.16	≤20.97	PASS
		2441	7.33	≤20.97	PASS
		2480	8.06	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.014	≥ 0.933	PASS
		Hop_2441	0.996	≥ 0.933	PASS
		Hop_2480	1.178	≥ 0.933	PASS
2DH1	Ant1	Hop_2402	1.004	≥ 0.980	PASS
		Hop_2441	0.992	≥ 0.980	PASS
		Hop_2480	1.178	≥ 0.980	PASS
3DH1	Ant1	Hop_2402	0.992	≥ 0.984	PASS
		Hop_2441	1.046	≥ 0.984	PASS
		Hop_2480	1.18	≥ 0.984	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



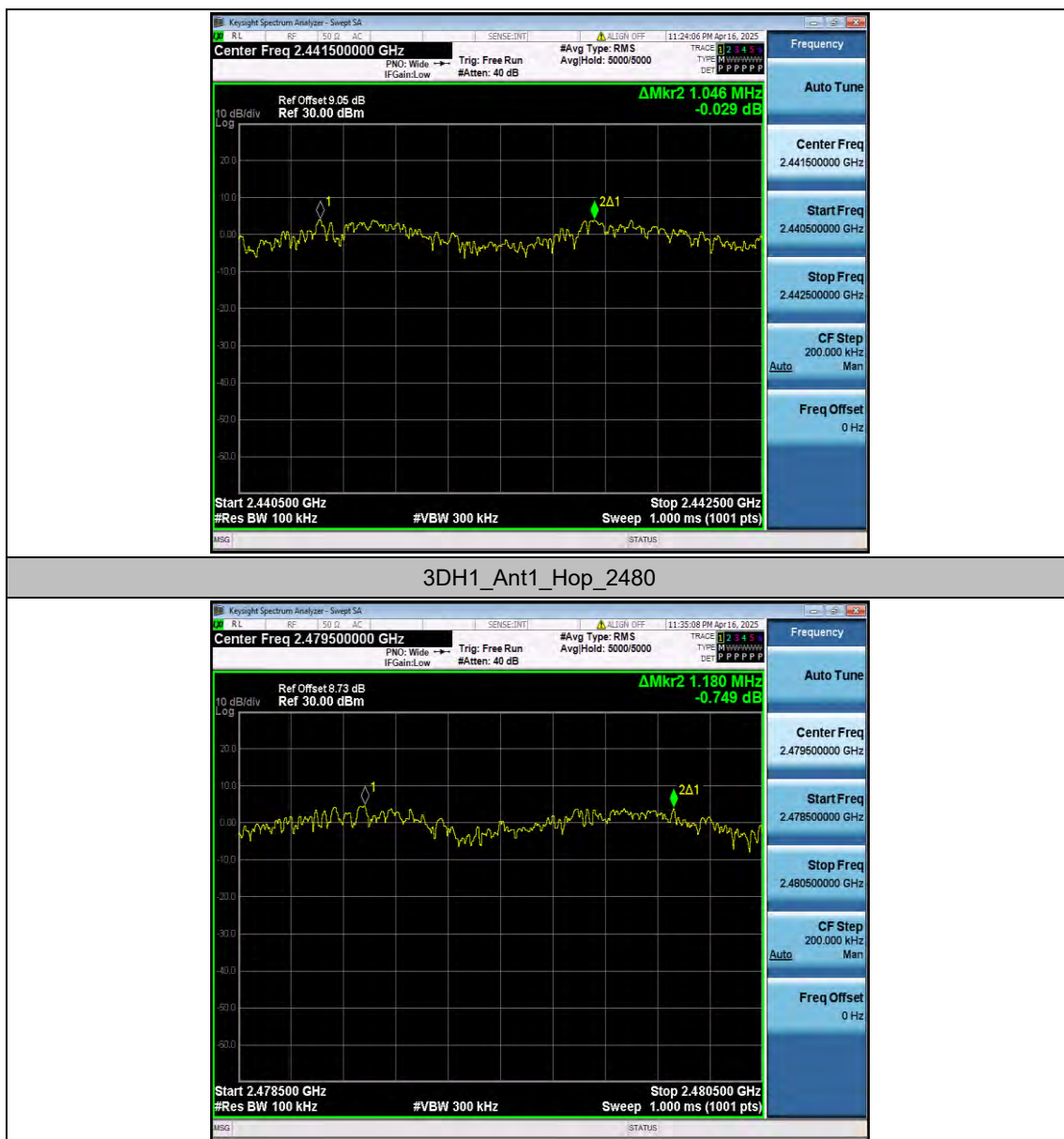
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

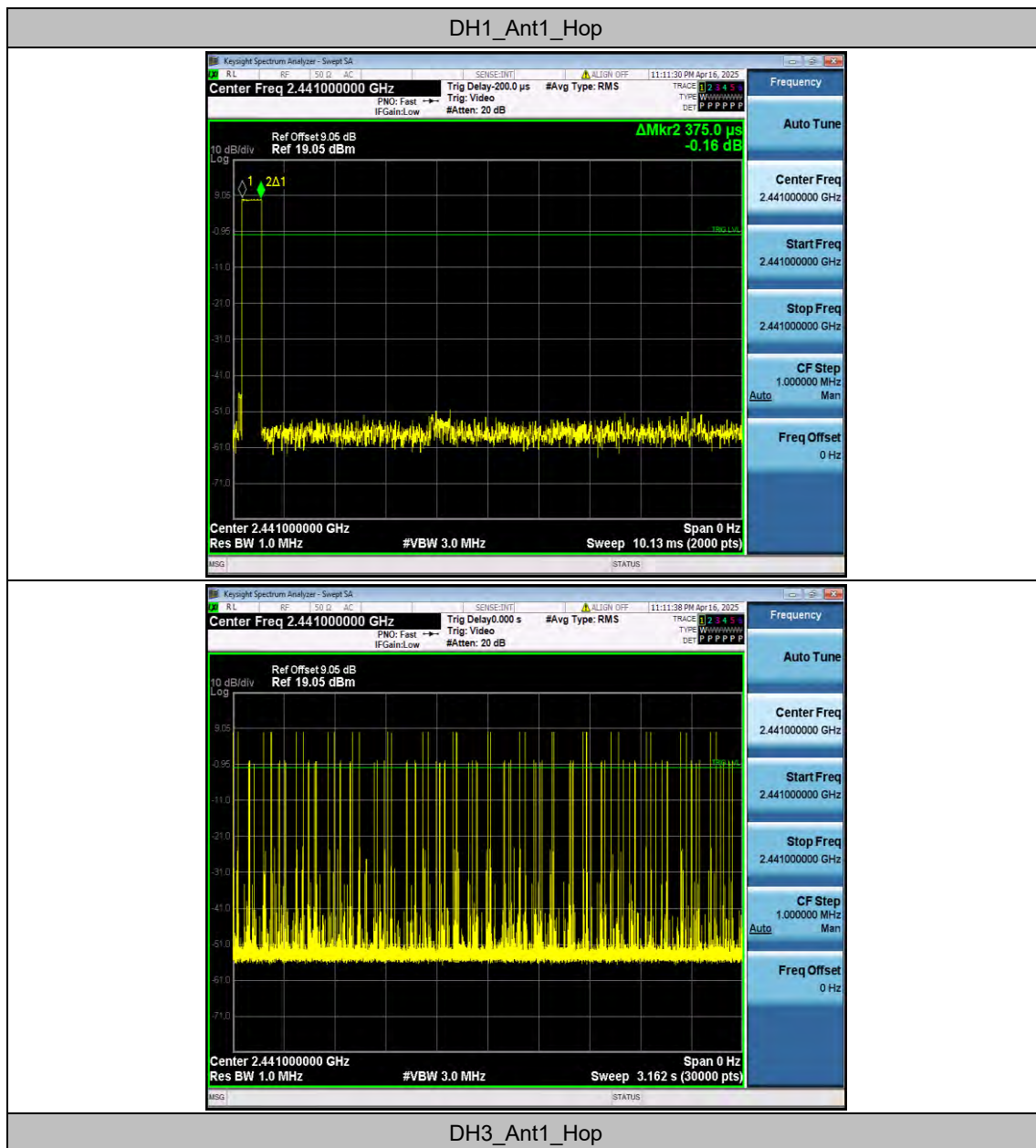


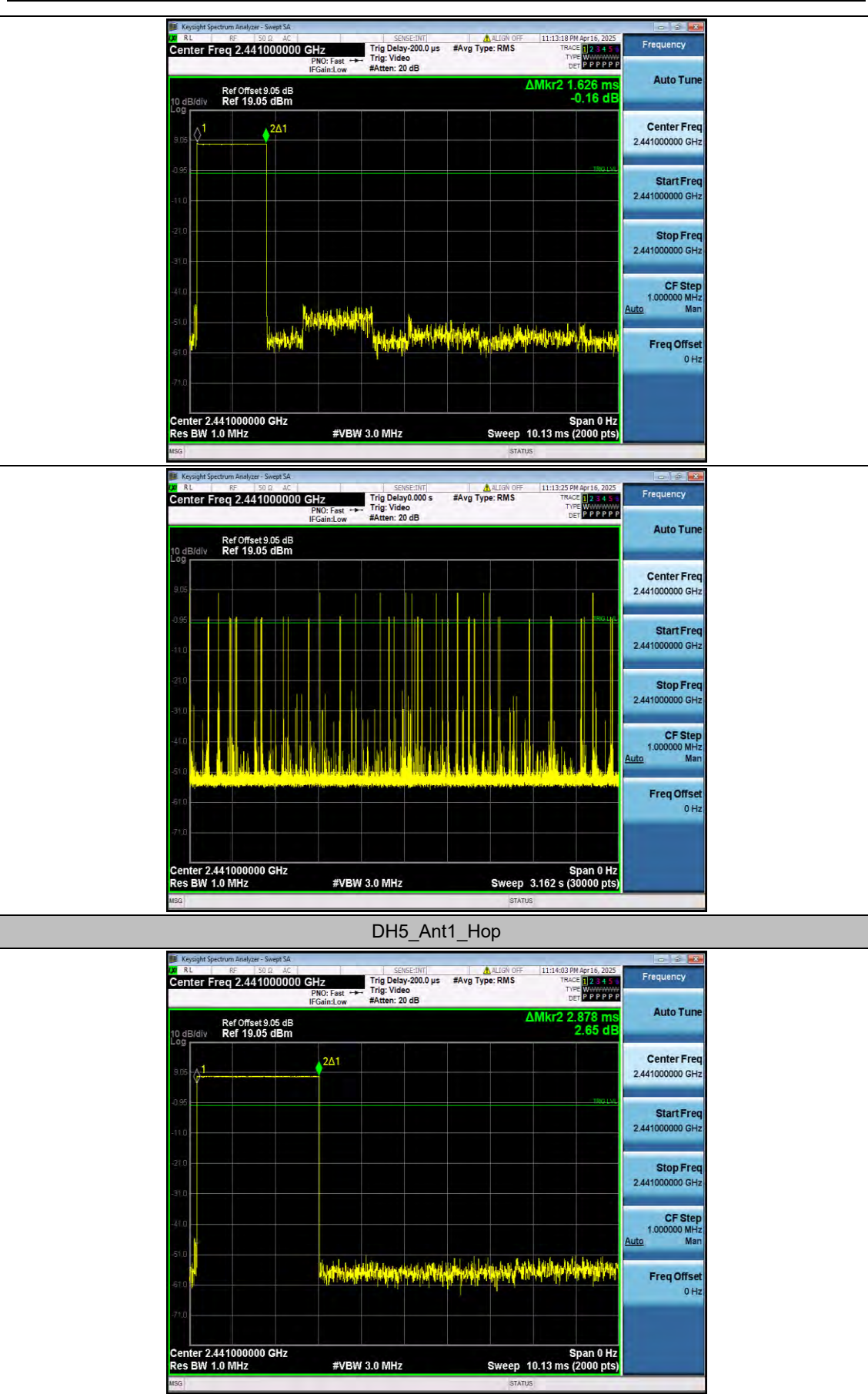
Appendix A.5: Time of occupancy

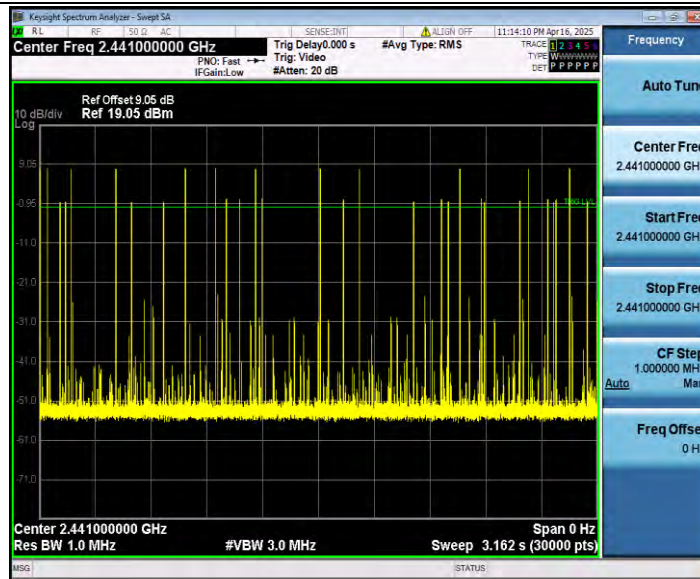
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.626	120	0.195	≤0.4	PASS
DH5	Ant1	Hop	2.878	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.370	330	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.626	150	0.244	≤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	1.631	200	0.326	≤0.4	PASS
3DH5	Ant1	Hop	2.873	130	0.373	≤0.4	PASS

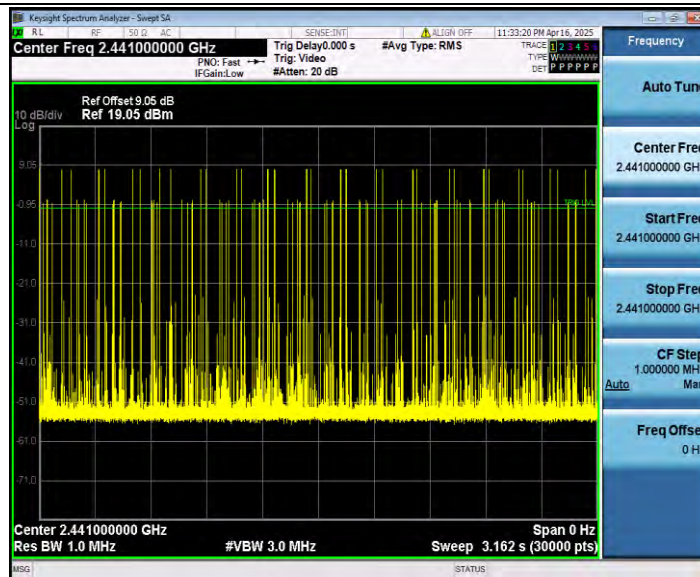
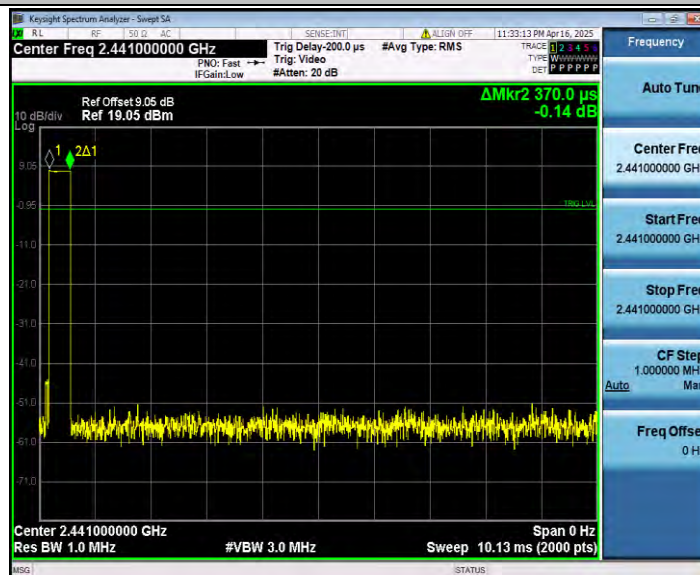
Test Graphs



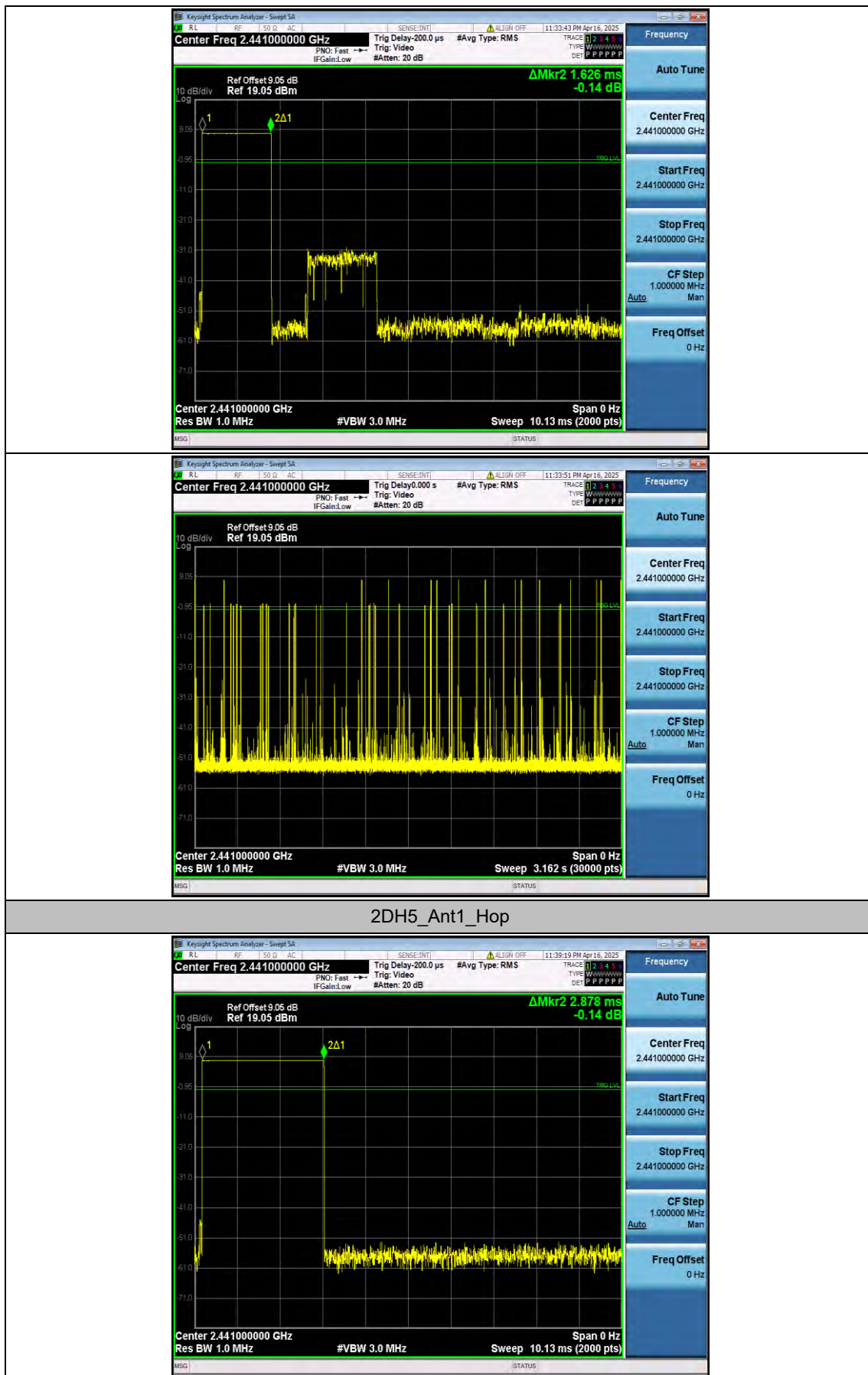


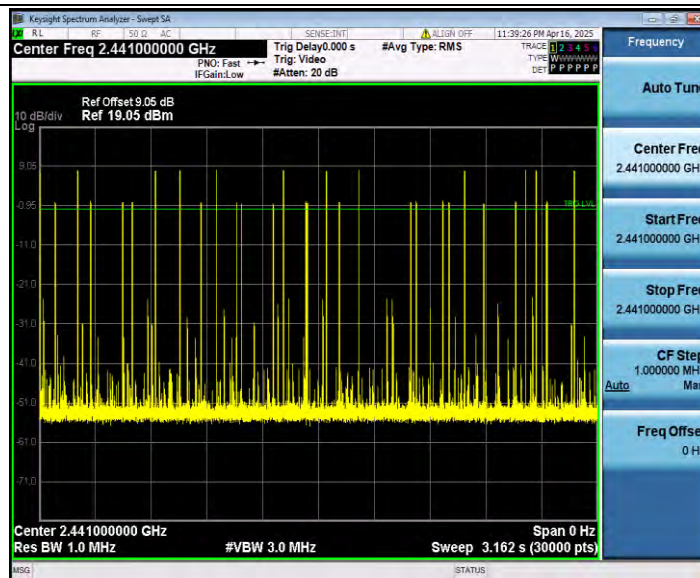


2DH1_Ant1_Hop

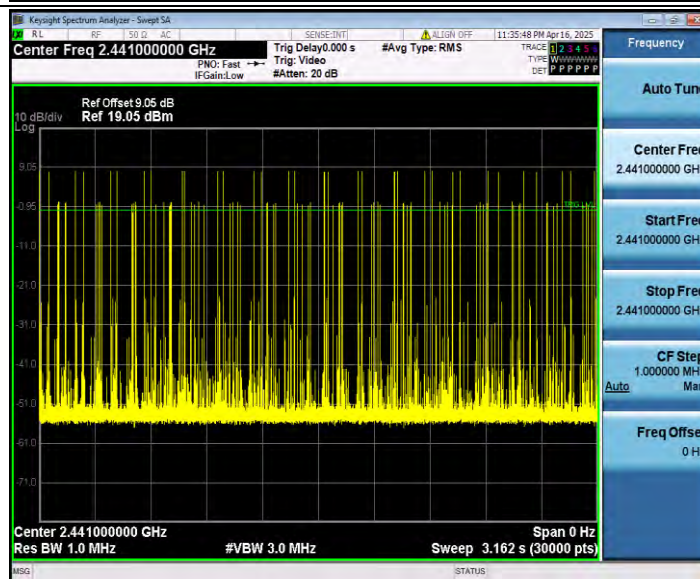
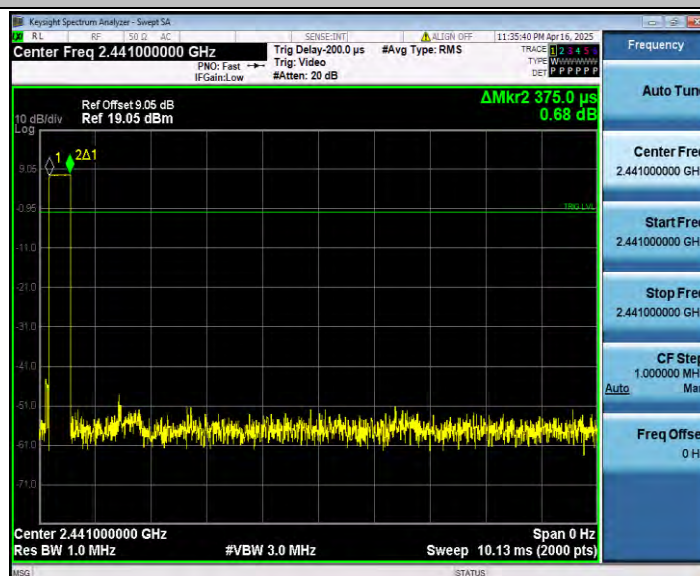


2DH3_Ant1_Hop

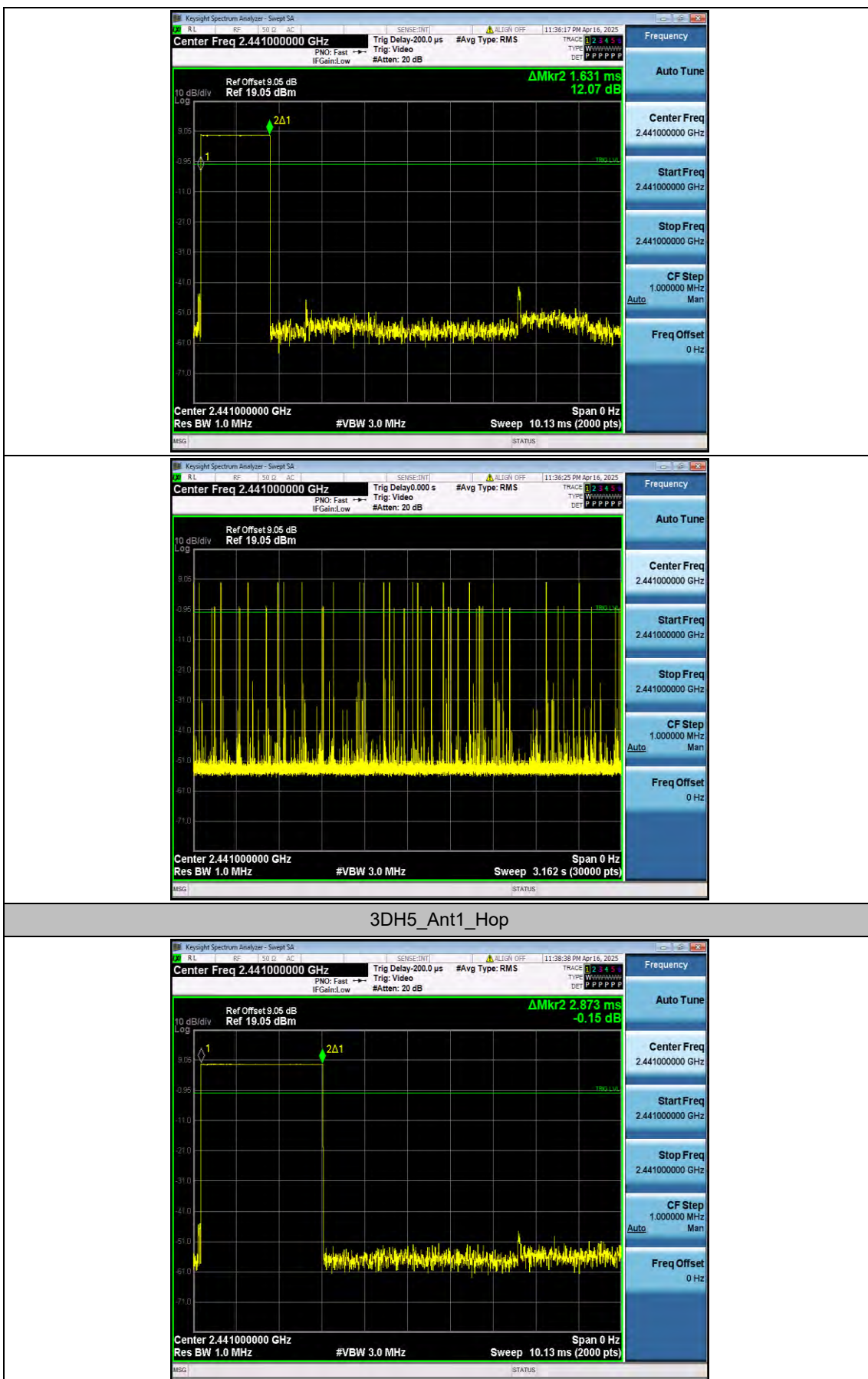


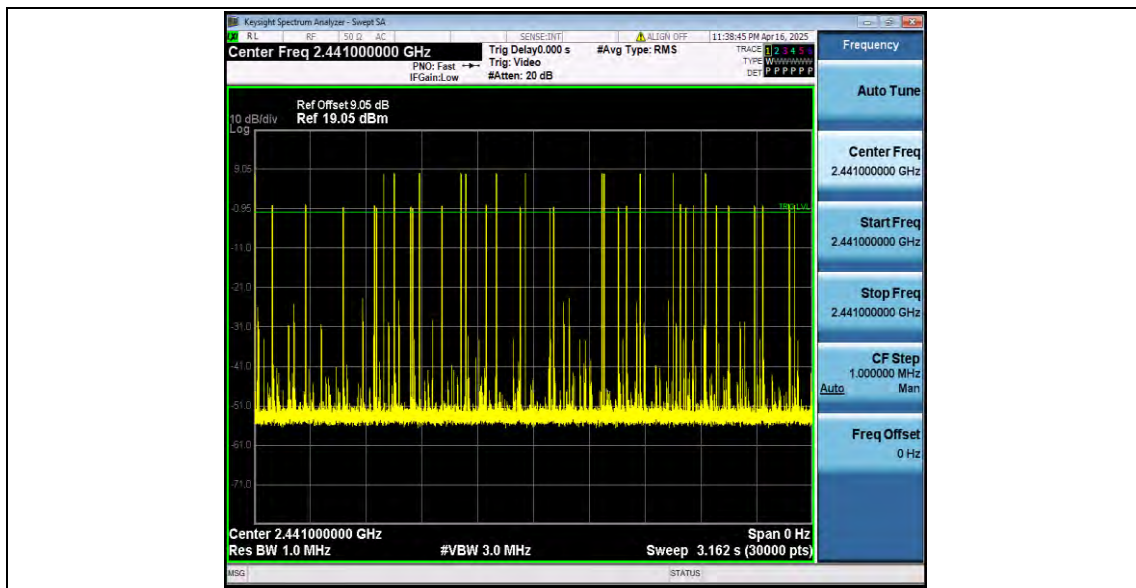


3DH1_Ant1_Hop



3DH3_Ant1_Hop



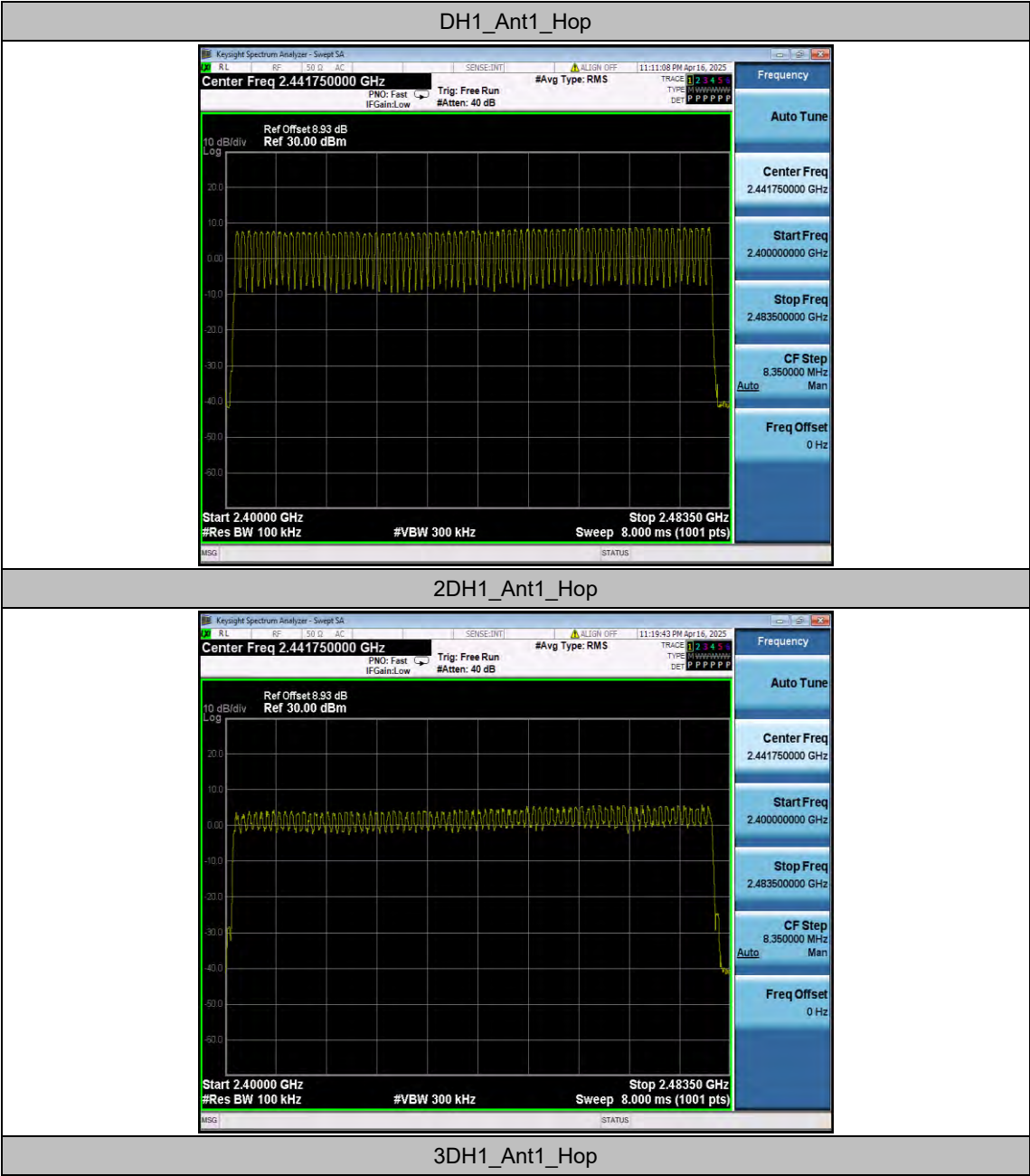


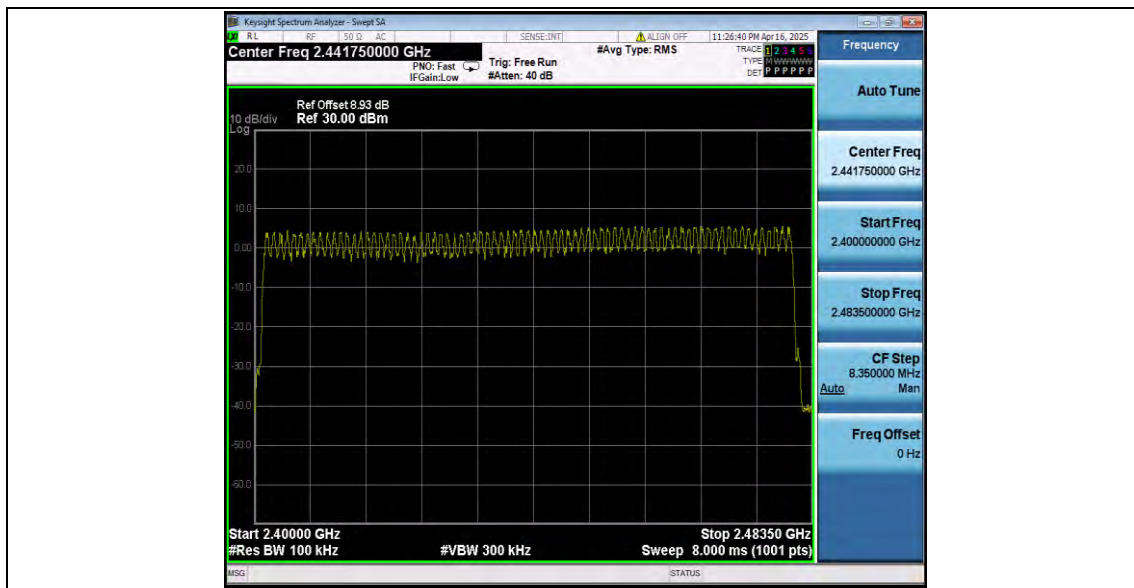
Appendix A.6: Number of hopping channels

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



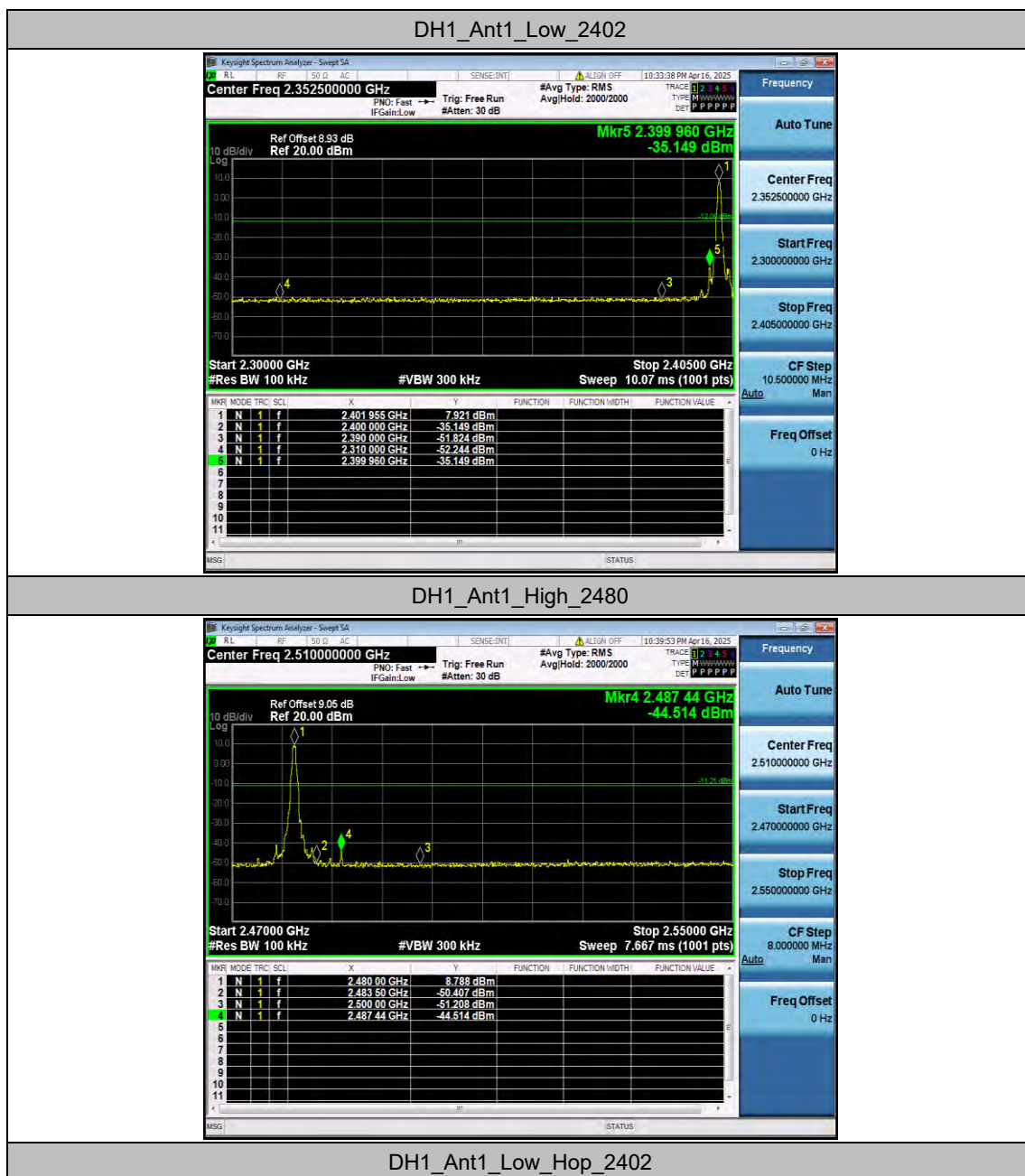


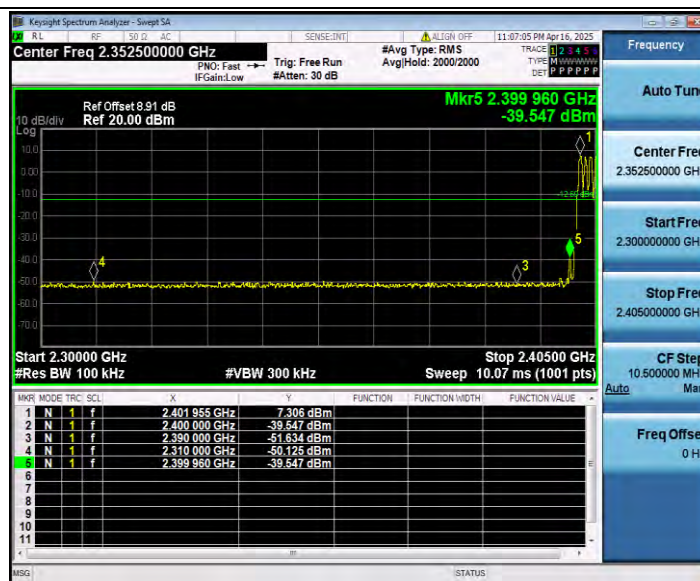
Appendix A.7: Band edge measurements

Test Result

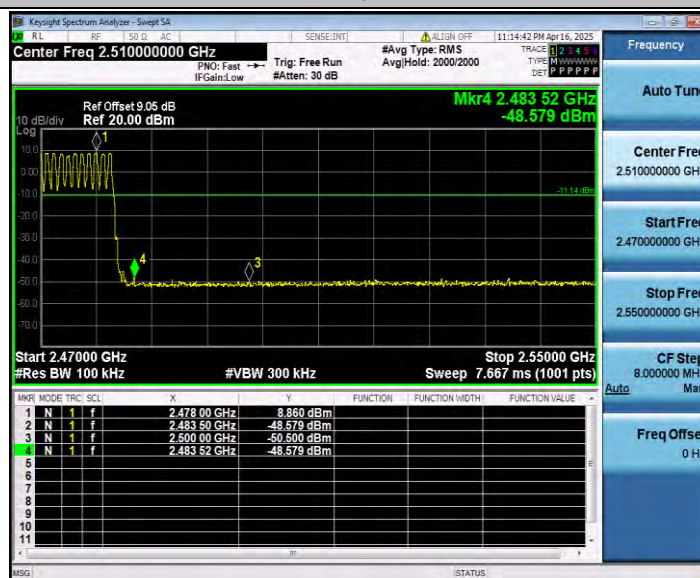
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.92	-35.15	≤-12.08	PASS
		High	2480	8.79	-44.51	≤-11.21	PASS
		Low	Hop_2402	7.31	-39.55	≤-12.69	PASS
		High	Hop_2480	8.86	-48.58	≤-11.14	PASS
2DH1	Ant1	Low	2402	4.31	-41.37	≤-15.69	PASS
		High	2480	5.02	-43.84	≤-14.98	PASS
		Low	Hop_2402	3.02	-42.61	≤-16.98	PASS
		High	Hop_2480	5.50	-48.96	≤-14.5	PASS
3DH1	Ant1	Low	2402	4.32	-39.11	≤-15.68	PASS
		High	2480	5.19	-44.28	≤-14.81	PASS
		Low	Hop_2402	3.04	-44.7	≤-16.96	PASS
		High	Hop_2480	5.63	-48.16	≤-14.37	PASS

Test Graphs

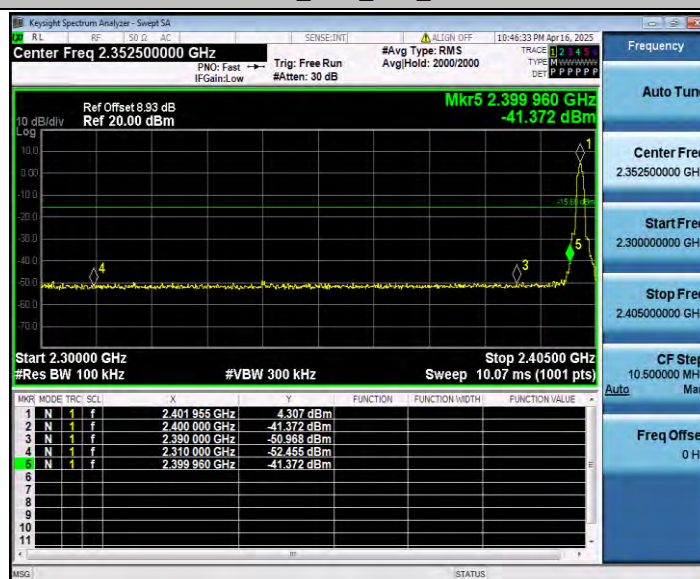




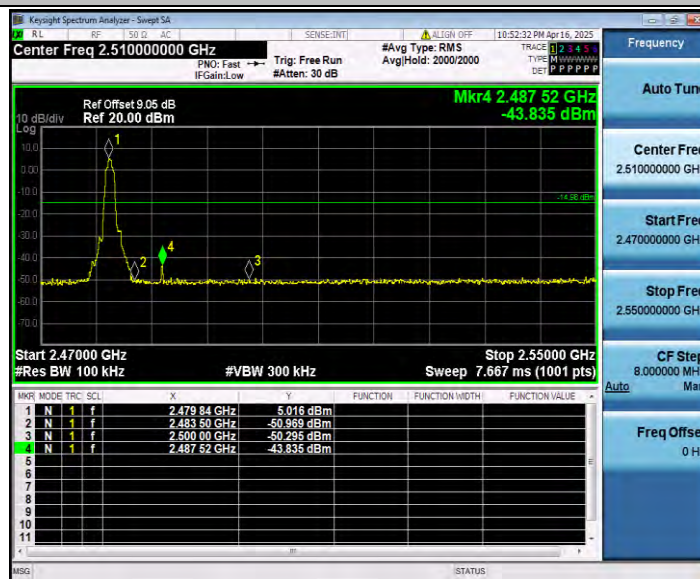
DH1_Ant1_High_Hop_2480



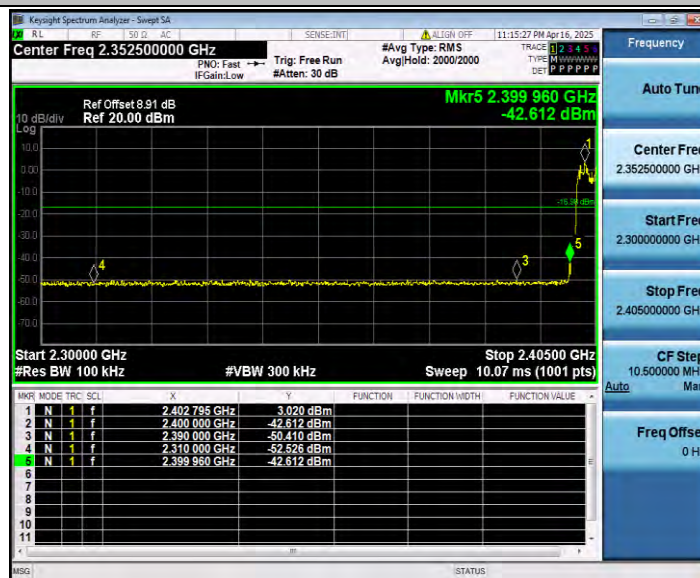
2DH1_Ant1_Low_2402



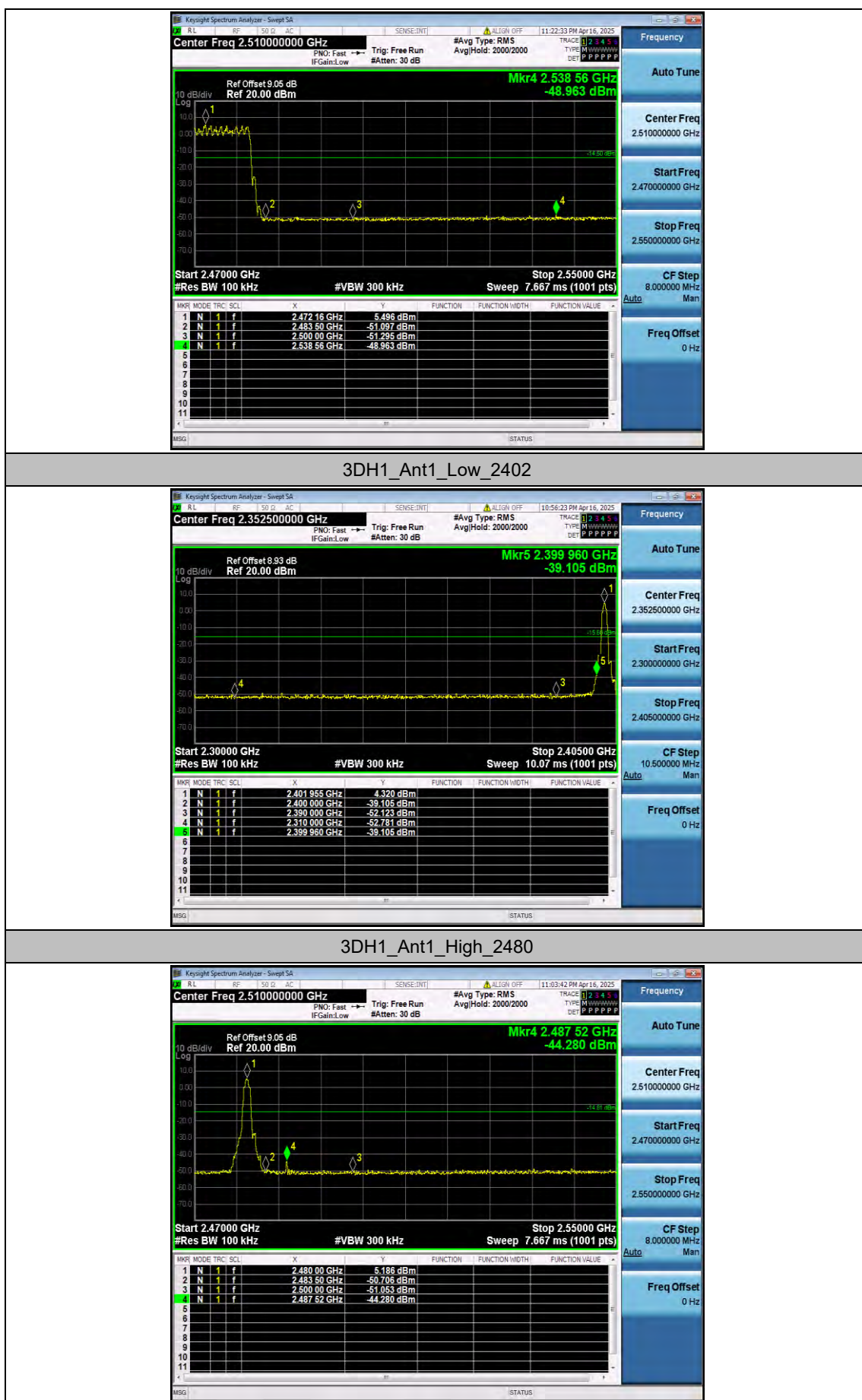
2DH1_Ant1_High_2480



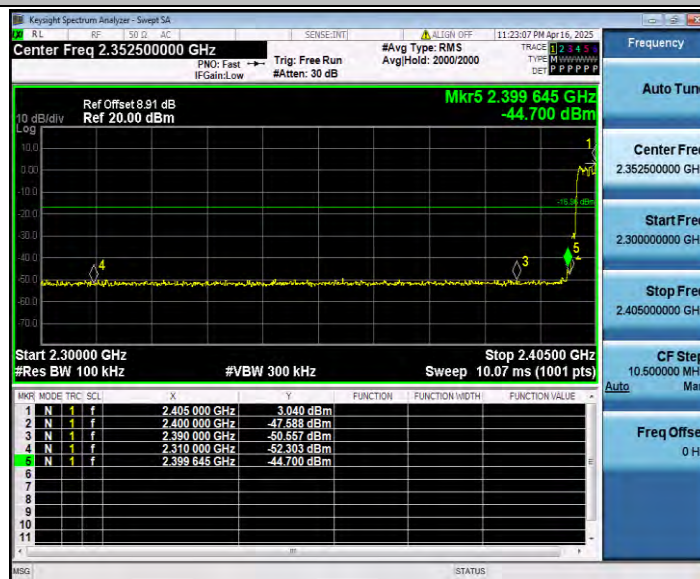
2DH1_Ant1_Low_Hop_2402



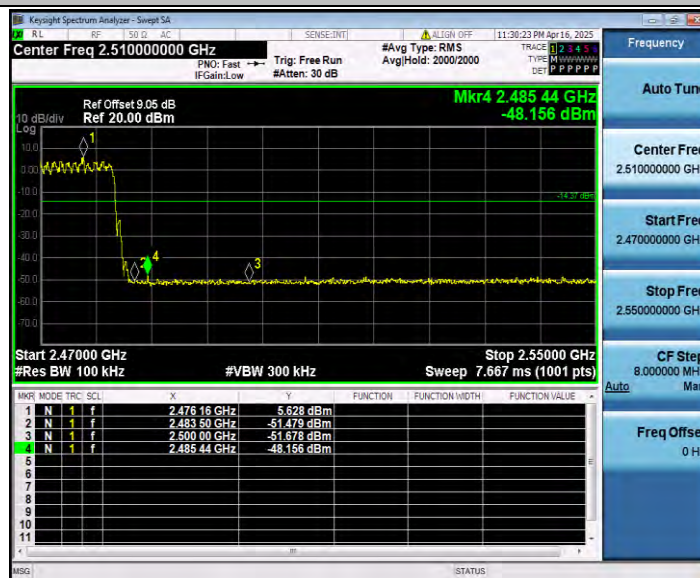
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

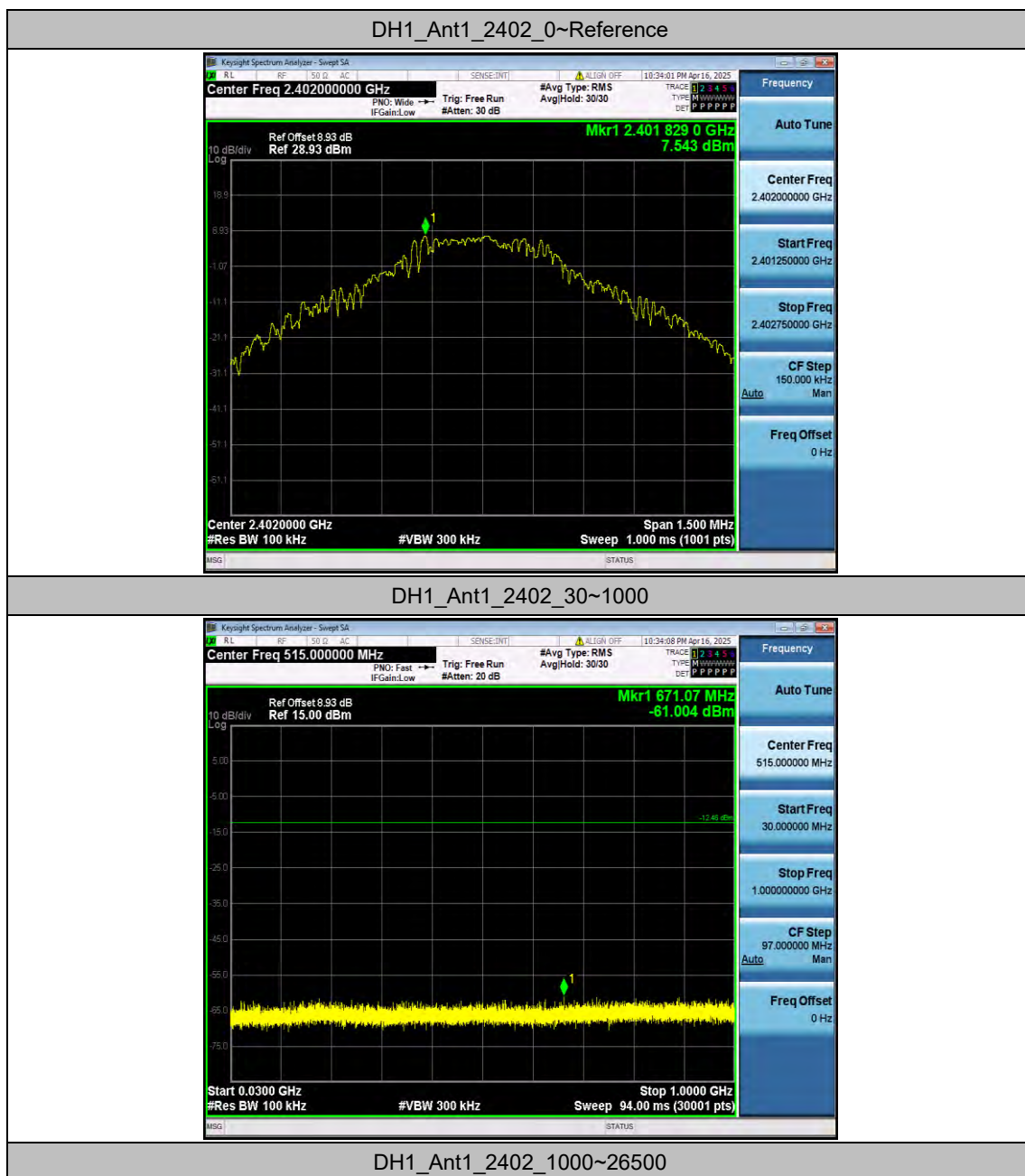


Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	7.54	7.54	---	PASS
			30~1000	7.54	-61	≤ -12.46	PASS
			1000~26500	7.54	-47.35	≤ -12.46	PASS
		2441	Reference	7.72	7.72	---	PASS
			30~1000	7.72	-60.51	≤ -12.28	PASS
			1000~26500	7.72	-47.59	≤ -12.28	PASS
		2480	Reference	8.42	8.42	---	PASS
			30~1000	8.42	-60.51	≤ -11.58	PASS
			1000~26500	8.42	-47.56	≤ -11.58	PASS
2DH1	Ant1	2402	Reference	3.46	3.46	---	PASS
			30~1000	3.46	-60.96	≤ -16.54	PASS
			1000~26500	3.46	-47.16	≤ -16.54	PASS
		2441	Reference	4.29	4.29	---	PASS
			30~1000	4.29	-60.43	≤ -15.71	PASS
			1000~26500	4.29	-47.71	≤ -15.71	PASS
		2480	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-60.39	≤ -15.51	PASS
			1000~26500	4.49	-47.13	≤ -15.51	PASS
3DH1	Ant1	2402	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-60.84	≤ -16.78	PASS
			1000~26500	3.22	-47.89	≤ -16.78	PASS
		2441	Reference	4.30	4.30	---	PASS
			30~1000	4.30	-60.72	≤ -15.7	PASS
			1000~26500	4.30	-47.5	≤ -15.7	PASS
		2480	Reference	4.88	4.88	---	PASS
			30~1000	4.88	-60.7	≤ -15.12	PASS
			1000~26500	4.88	-47.58	≤ -15.12	PASS

Test Graphs



Keysight Spectrum Analyzer - Swept SA

BL | BS | IF 50.0 | AC | SENSE:INT1 | ALIGN OFF | 10:36:54 PM Apr 15, 2025

Center Freq 2.441000000 GHz #Avg Type: RMS Avg/Hold: 30/30 TRACE 1 2 3 4 5
 PNO: Wide Trig: Free Run TYPE M W W W W W W W
 IF Gain: Low #Atten: 30 dB DET P P P P P P P

Ref Offset: 9.05 dB Mkr1 2.441 006 0 GHz
 Ref 29.05 dBm 7.721 dBm

10 dB/div
 Log

Center 2.4410000 GHz Span 1.500 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)

Frequency

Auto Tune

Center Freq
 2.441000000 GHz

Start Freq
 2.440250000 GHz

Stop Freq
 2.441750000 GHz

CF Step
 150.000 kHz
 Man

Auto

Freq Offset
 0 Hz

Keysight Spectrum Analyzer - Swept SA

RB 10.0 GHz FFS 1.00 GHz SENSE INT 10:37:00 PM Apr 15, 2025

Center Freq 515.000000 MHz

PNO: Fast Trig: Free Run #Avg Type: RMS #Attenu: 20 dB

IFGain: Low

ALIGN OFF

TRAC1 1 2 3 4 5

TYPE M W W W W W

DET P P P P P P

Frequency

Auto Tune

Center Freq 515.000000 MHz

Start Freq 30.000000 MHz

Stop Freq 1.000000000 GHz

CF Step 97.000000 MHz

Auto Man

Freq Offset 0 Hz

Ref Offset 9.05 dB

Ref 15.00 dBm

Mkr1 805.19 MHz

-60.509 dBm

10 dB/div

Log

9.00

5.00

1.00

18.0

25.0

36.0

45.0

55.0

65.0

75.0

Start 0.0300 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 94.00 ms (30001 pts)

Stop 1.0000 GHz

MSG STATUS

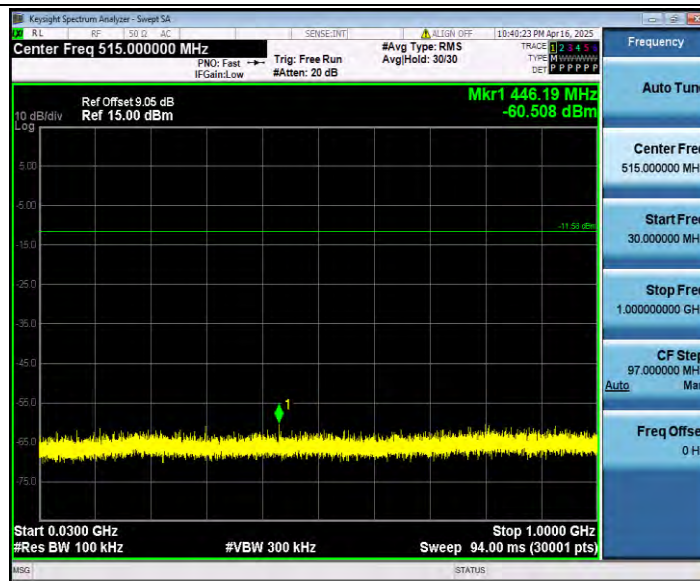
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



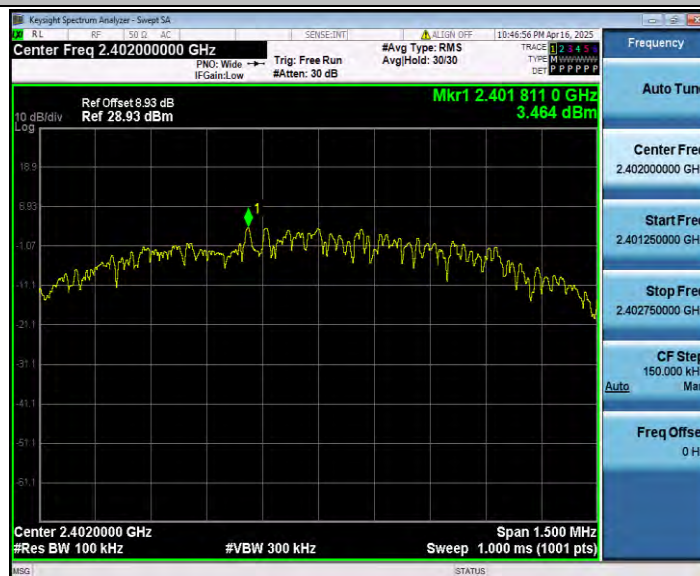
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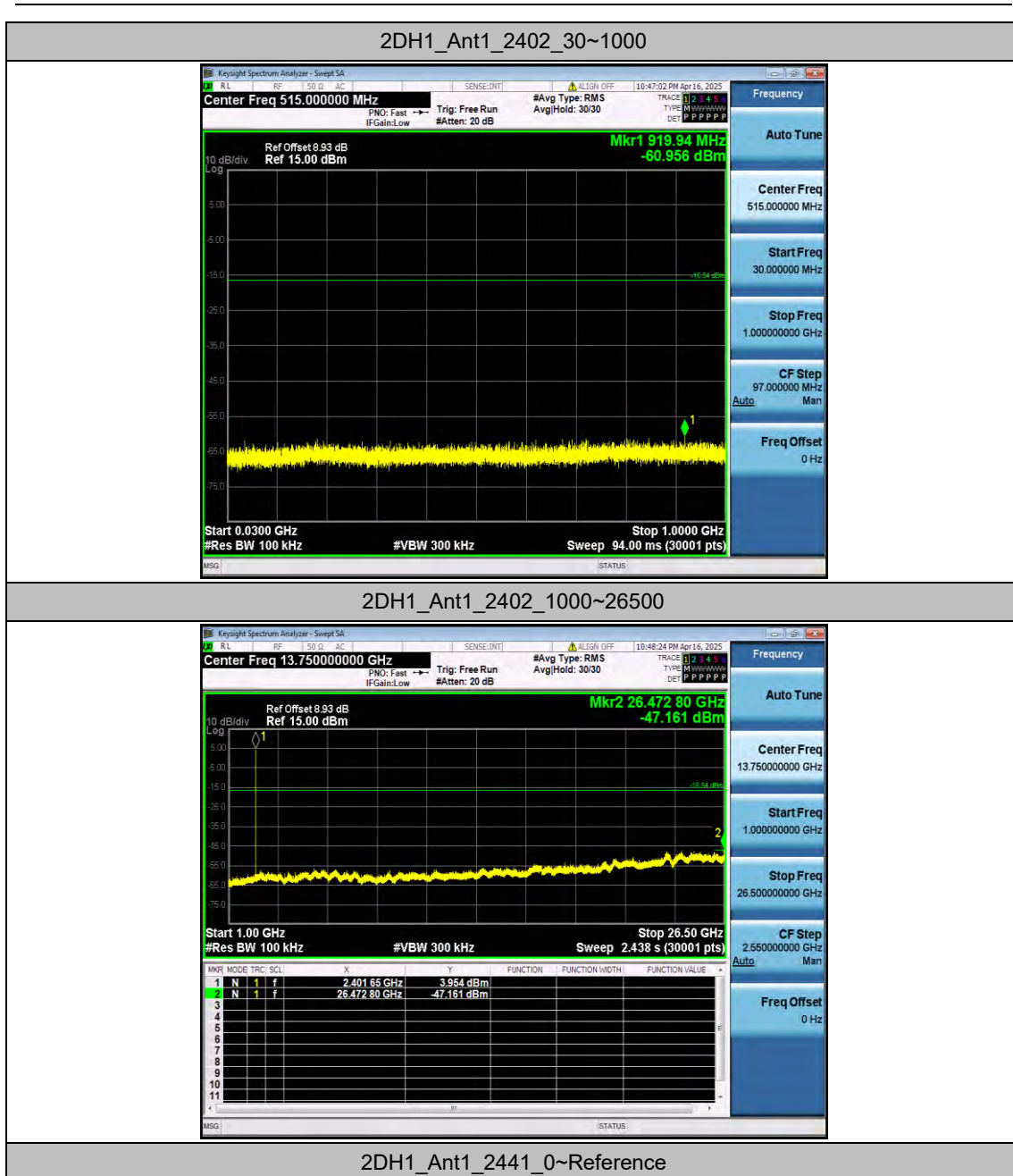


DH1_Ant1_2480_1000~26500



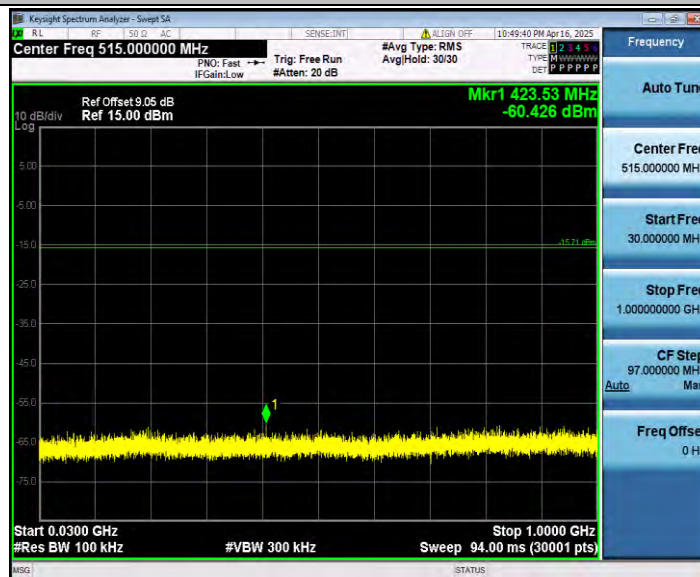
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



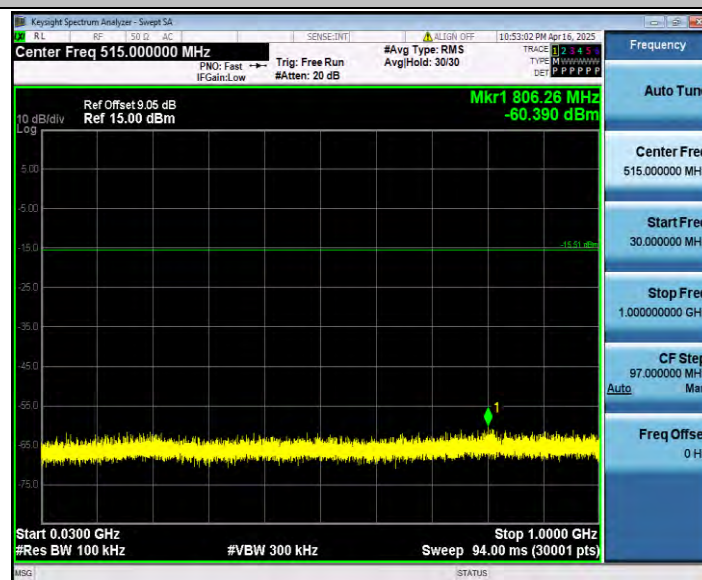
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500

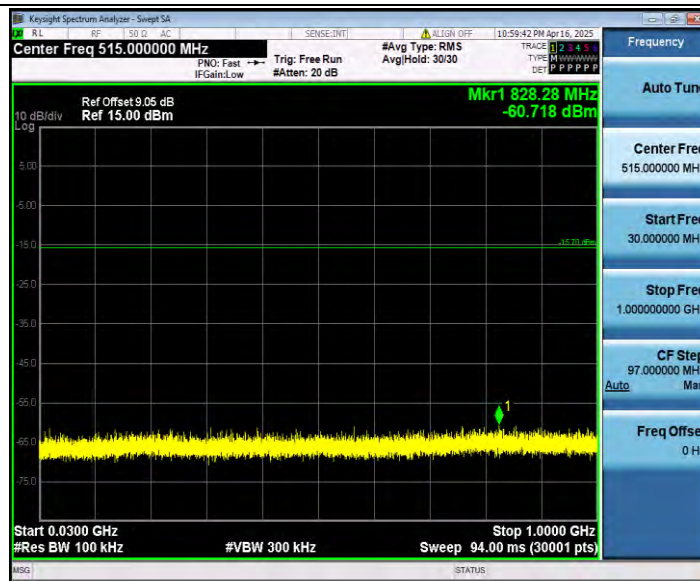
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



