

FCC Appendix RF Test Data

FCC ID : 2AWUL-A18

Company : Shenzhen Pengxinfu Electronics Co., Ltd.

EUT : Wireless Headset

Model Number : A18

Report No. : CTA25063002101

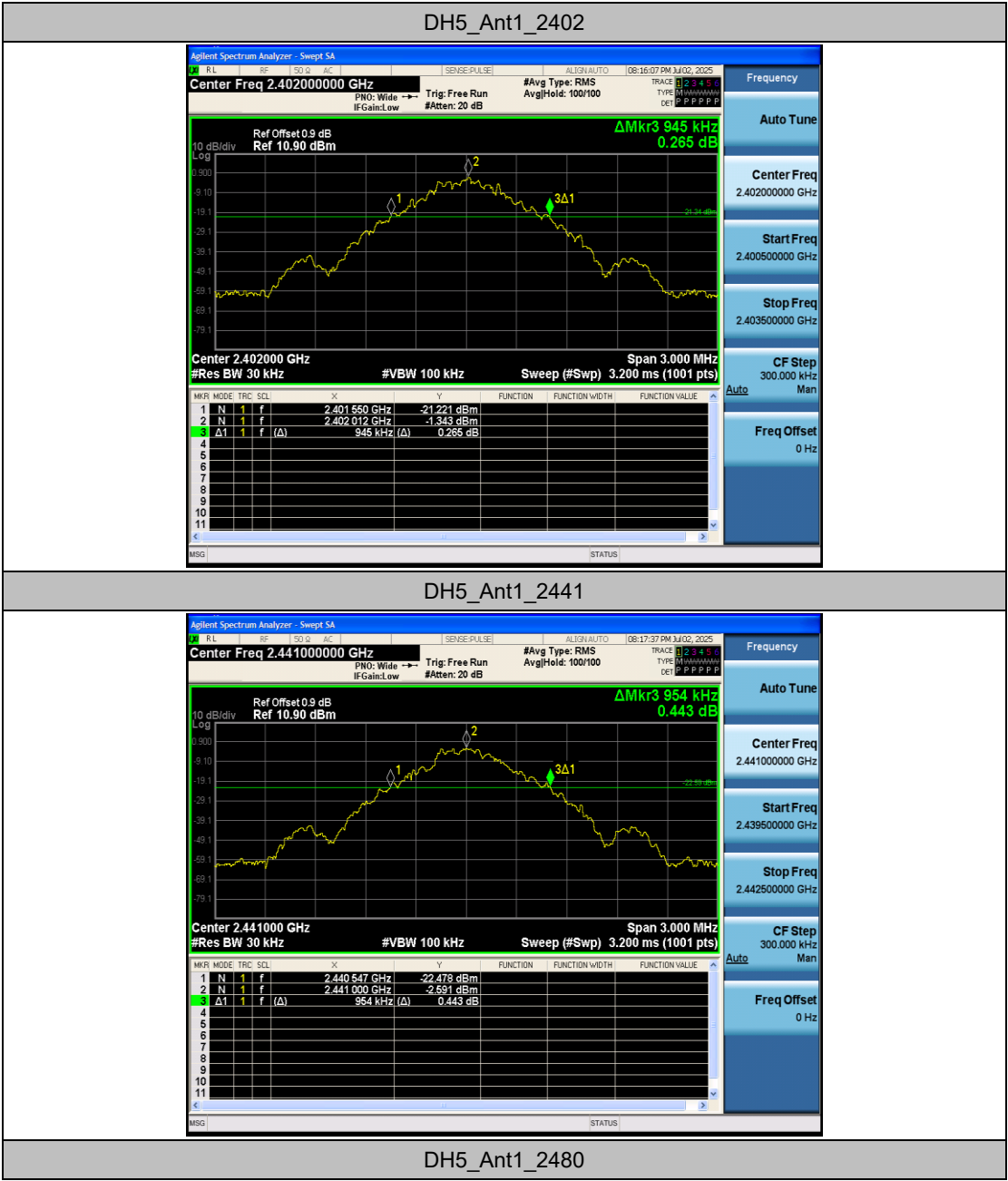
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.550	2402.495	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.320	2401.349	2402.669	---	---
		2441	1.335	2440.343	2441.678	---	---
		2480	1.323	2479.349	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

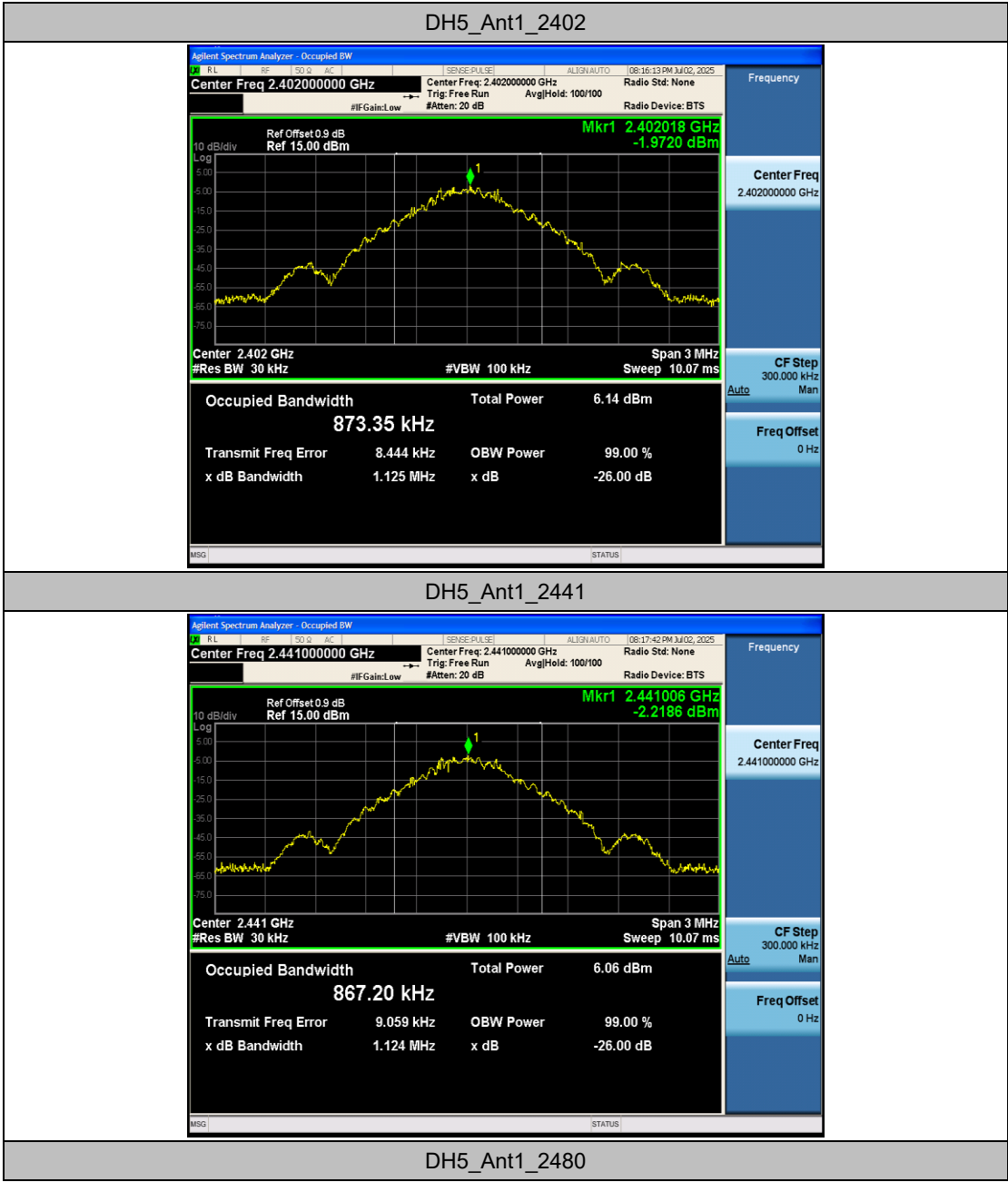


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87335	2401.5718	2402.4451	---	---
		2441	0.86720	2440.5755	2441.4427	---	---
		2480	0.87288	2479.5700	2480.4429	---	---
2DH5	Ant1	2402	1.1912	2401.4141	2402.6053	---	---
		2441	1.1887	2440.4152	2441.6039	---	---
		2480	1.1915	2479.4141	2480.6056	---	---

Test Graphs

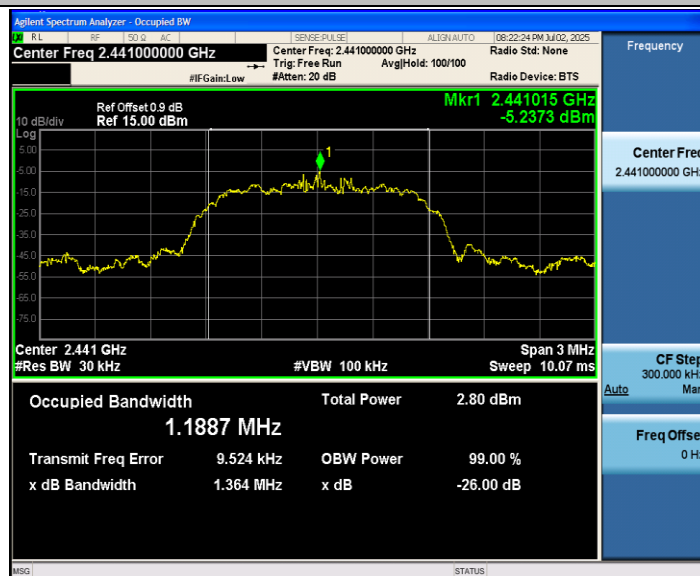




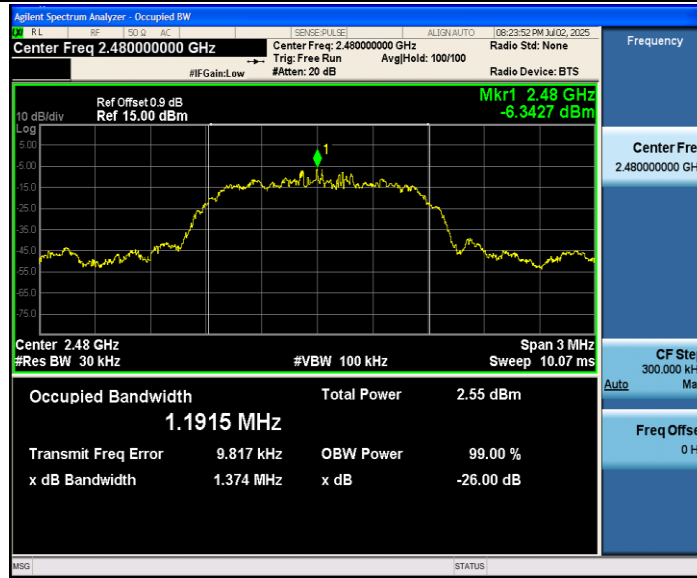
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.35	≤20.97	PASS
		2441	0.09	≤20.97	PASS
		2480	0.03	≤20.97	PASS
2DH5	Ant1	2402	-0.47	≤20.97	PASS
		2441	-0.70	≤20.97	PASS
		2480	-0.75	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥ 0.954	PASS
2DH5	Ant1	Hop	1.084	≥ 0.890	PASS

Test Graphs

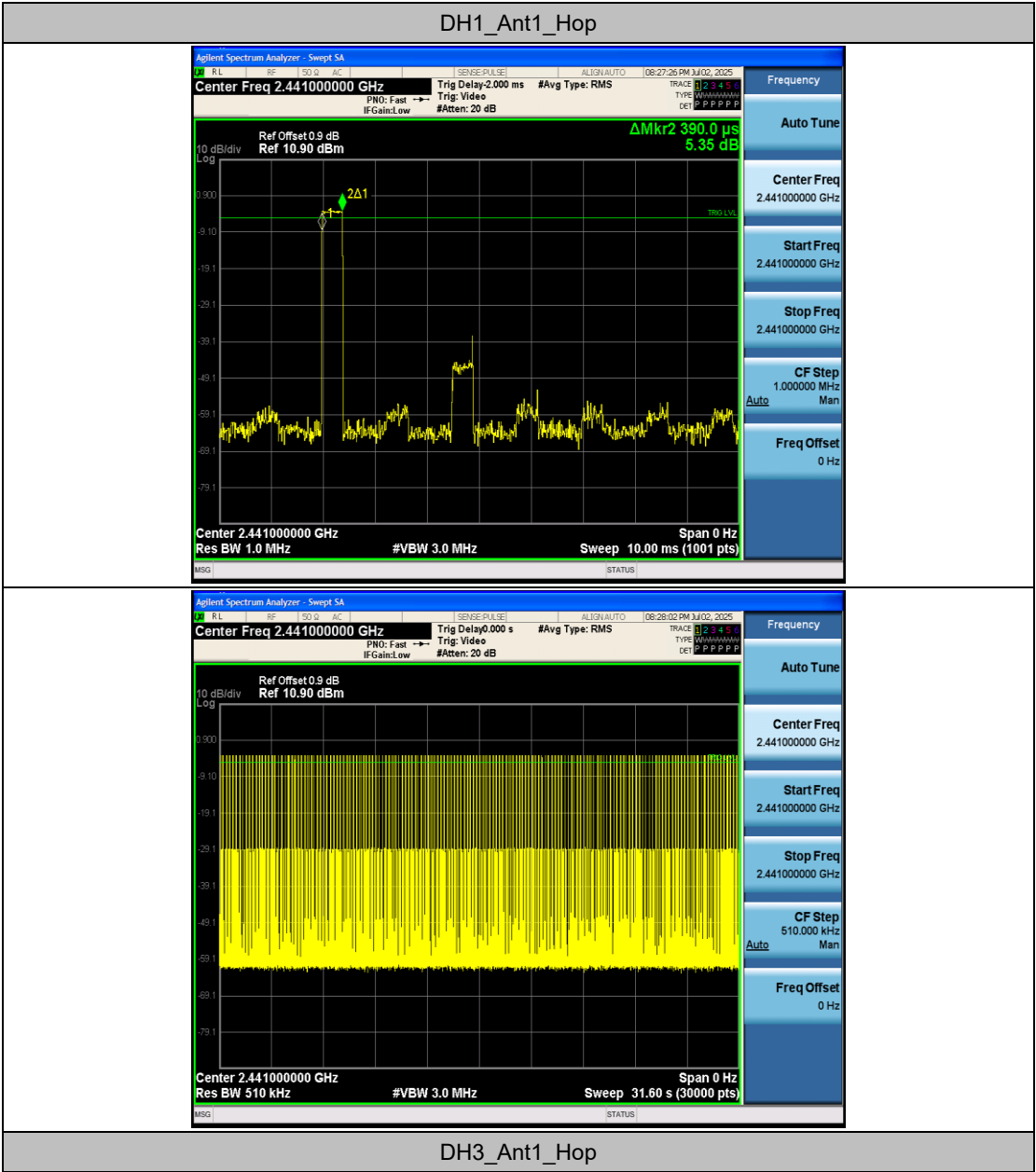


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	153	0.251	≤0.4	PASS
DH5	Ant1	Hop	2.890	97	0.28	≤0.4	PASS
2DH1	Ant1	Hop	0.400	317	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	159	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.900	95	0.276	≤0.4	PASS

Test Graphs



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 0.9 dB
Ref 10.90 dBm

10 dB/div
Log

9.900

-9.10

-19.1

-29.1

-39.1

-49.1

-59.1

-69.1

-79.1

Center 2.441000000 GHz

Res BW 510 kHz

#VBW 3.0 MHz

Sweep 31.60 s (30000 pts)

Trig Delay 0.000 s

Trig: Video

#Avg Type: RMS

Trig: Fast

IF Gain: Low

#Atten: 20 dB

SENSE: PULSE

ALIGN: AUTO

08/28/02 PM J102, 2025

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P P P

Frequency

Auto Tune

Center Freq
2.441000000 GHz

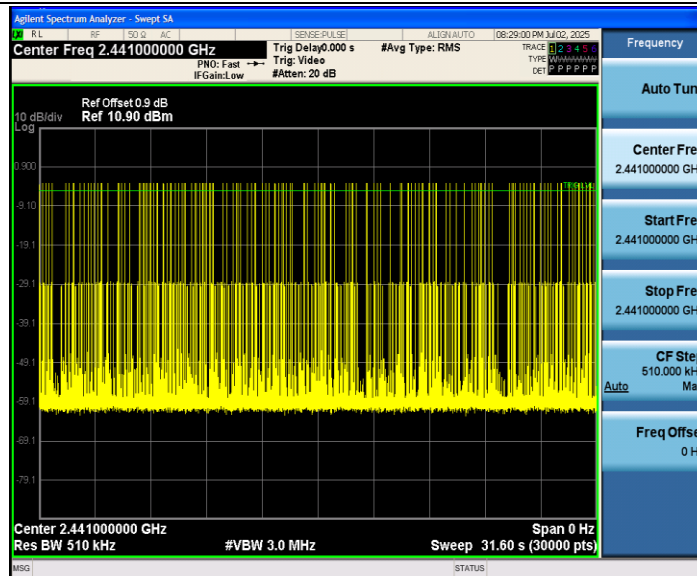
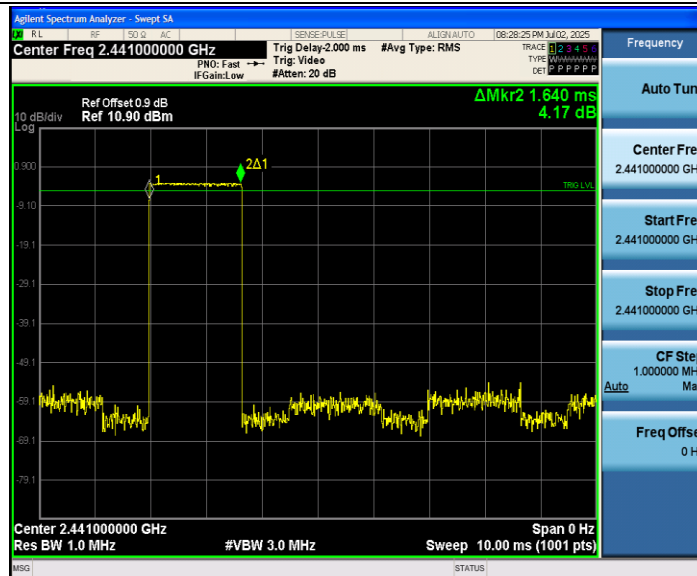
Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

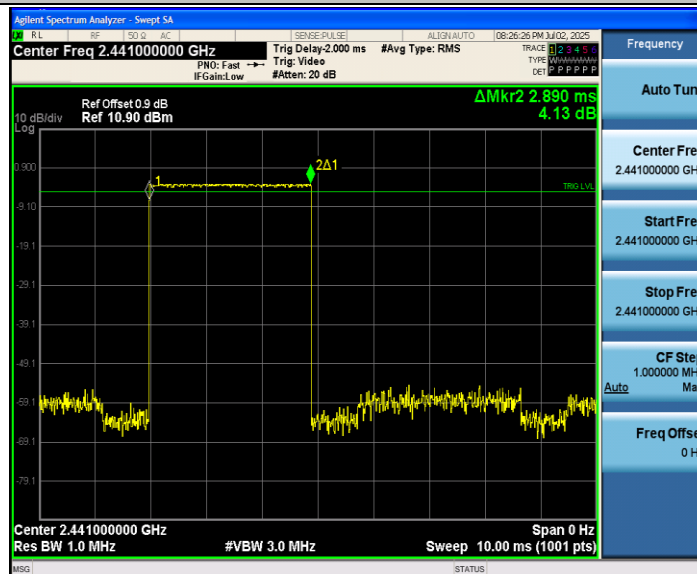
CF Step
510.000 kHz
Auto Man

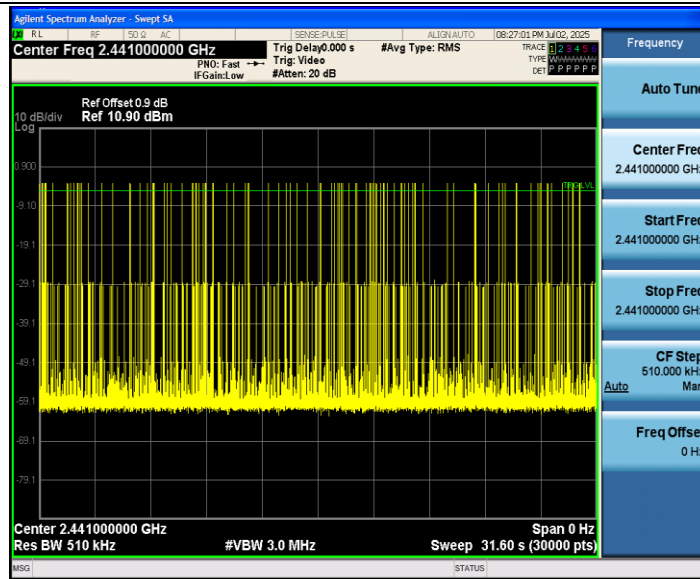
Freq Offset
0 Hz

DH3_Ant1_Hop

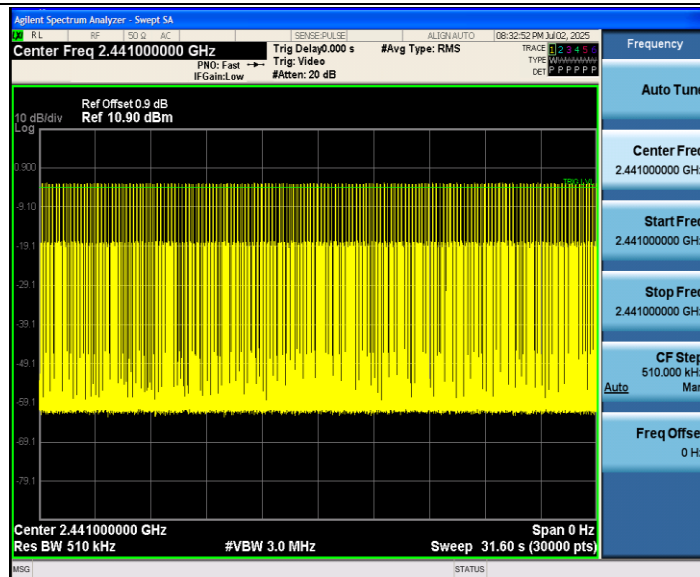
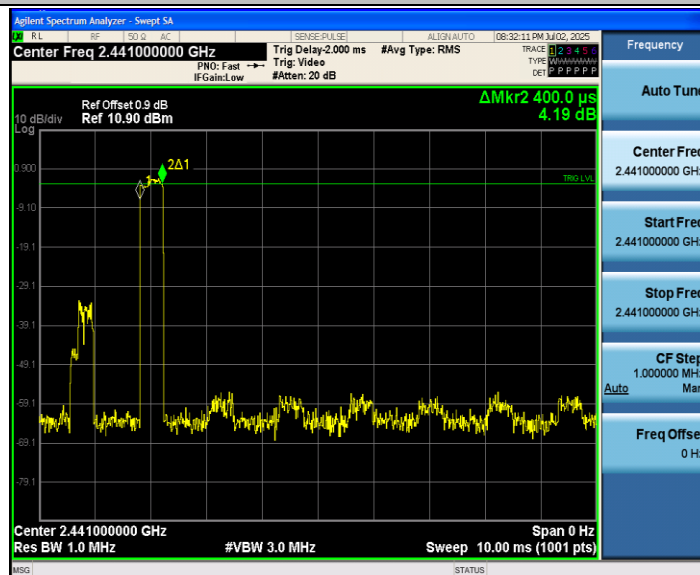


DH5_Ant1_Hop

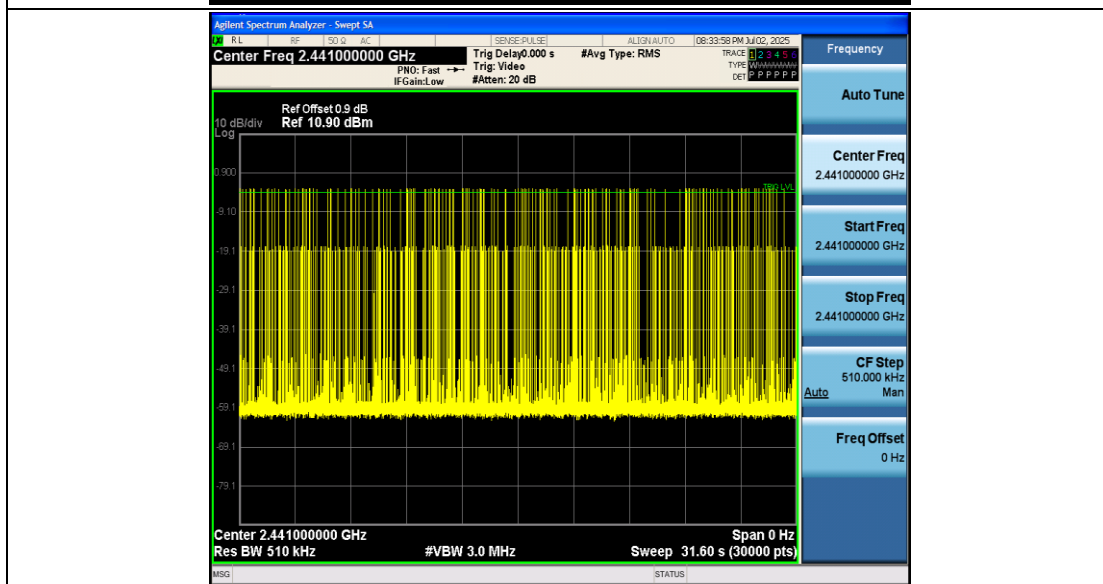
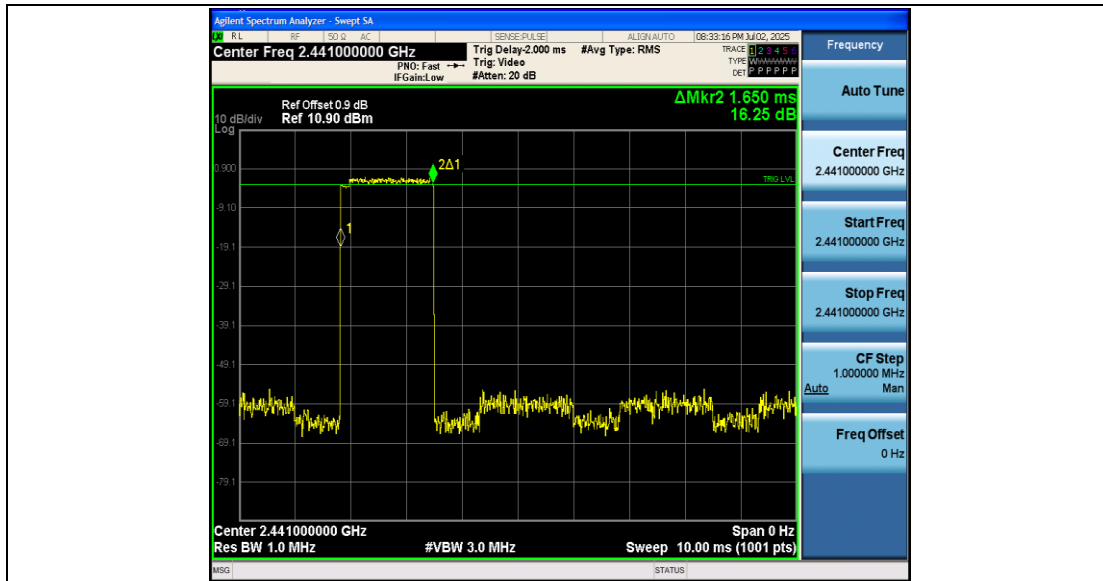




2DH1_Ant1_Hop

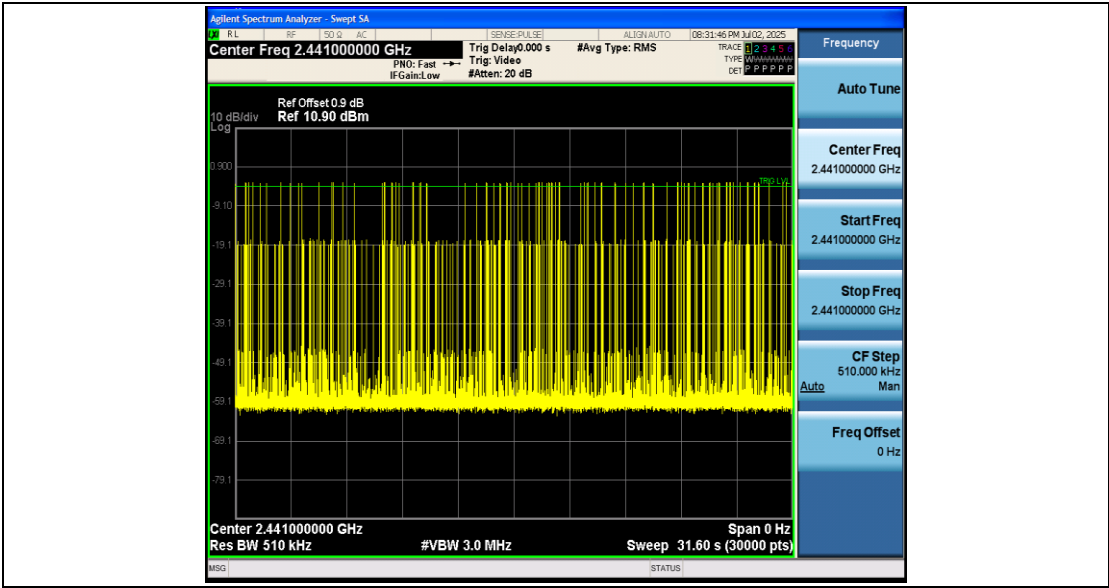


2DH3_Ant1_Hop



2DH5_Ant1_Hop





Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

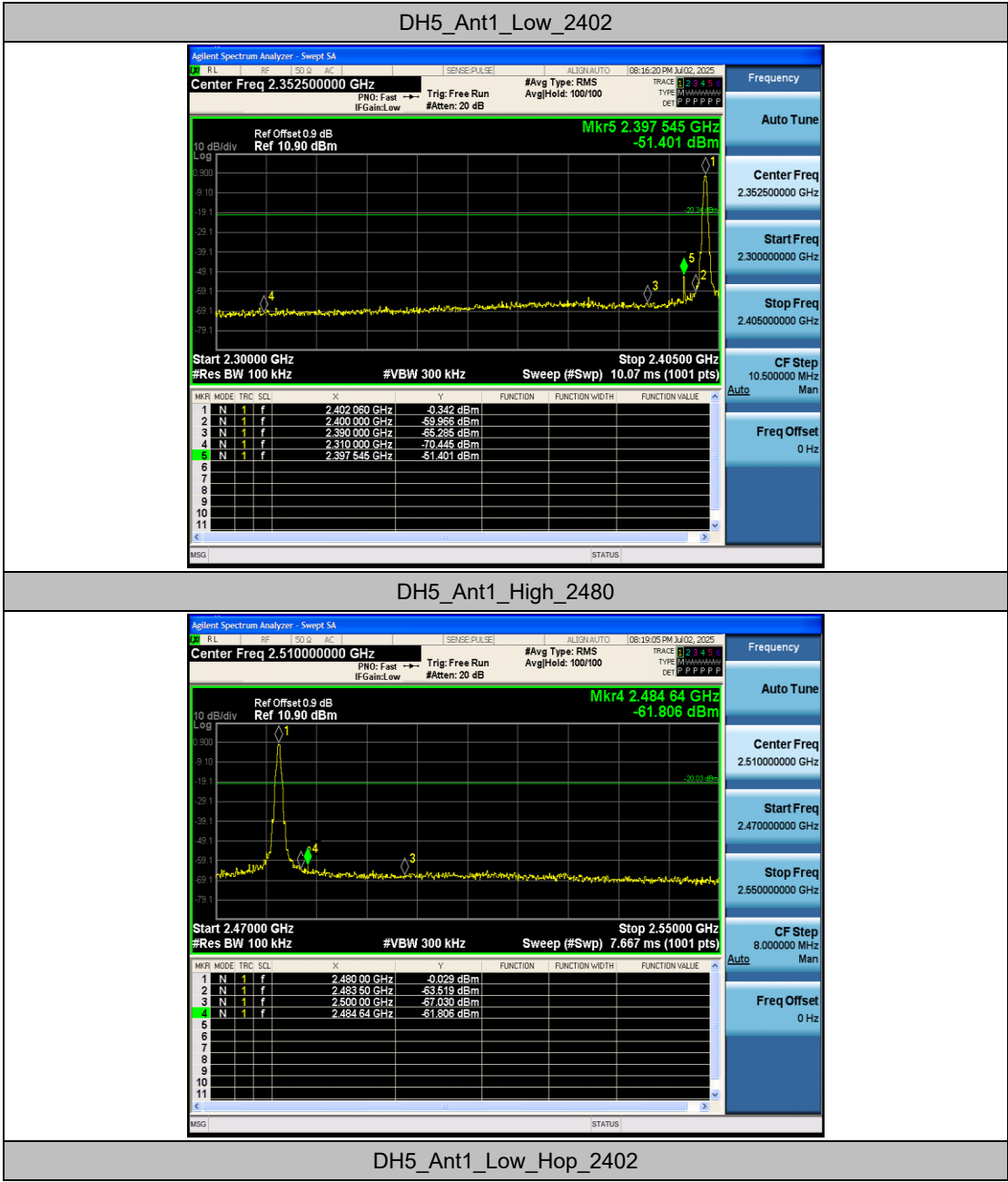


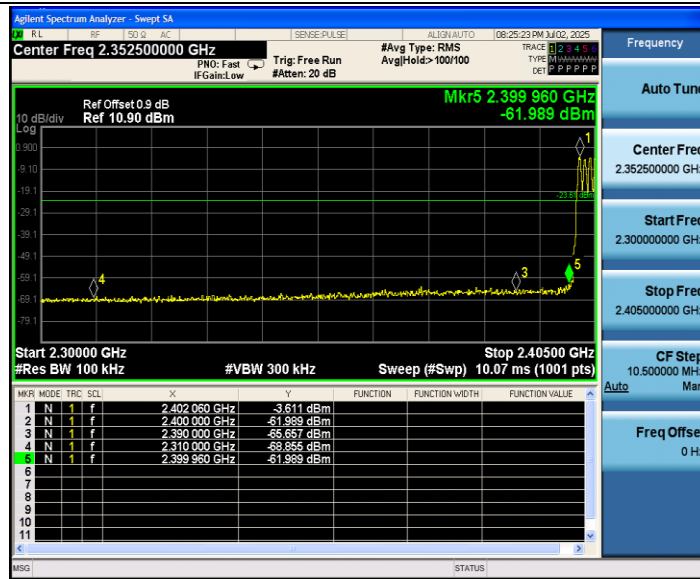
Appendix G: Band edge measurements

Test Result

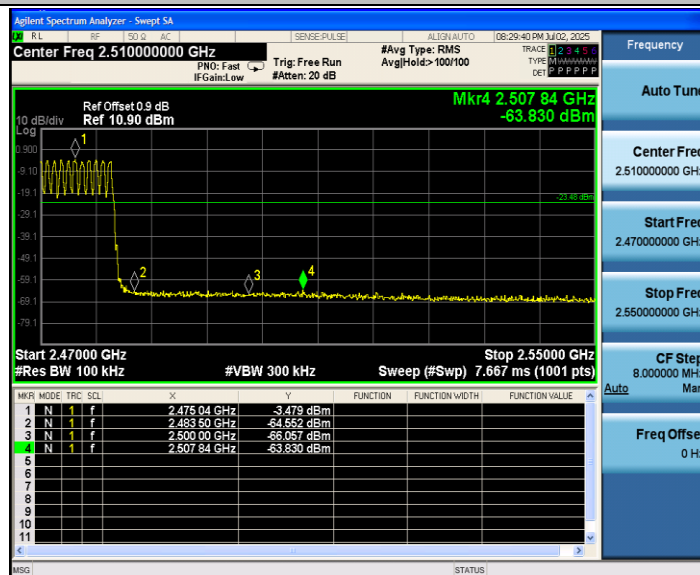
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.34	-51.4	≤-20.34	PASS
		High	2480	-0.03	-61.81	≤-20.03	PASS
		Low	Hop_2402	-3.61	-61.99	≤-23.61	PASS
		High	Hop_2480	-3.48	-63.83	≤-23.48	PASS
2DH5	Ant1	Low	2402	-3.08	-54.92	≤-23.08	PASS
		High	2480	-4.07	-55.91	≤-24.07	PASS
		Low	Hop_2402	-4.42	-61.64	≤-24.42	PASS
		High	Hop_2480	-3.51	-63.39	≤-23.51	PASS

Test Graphs

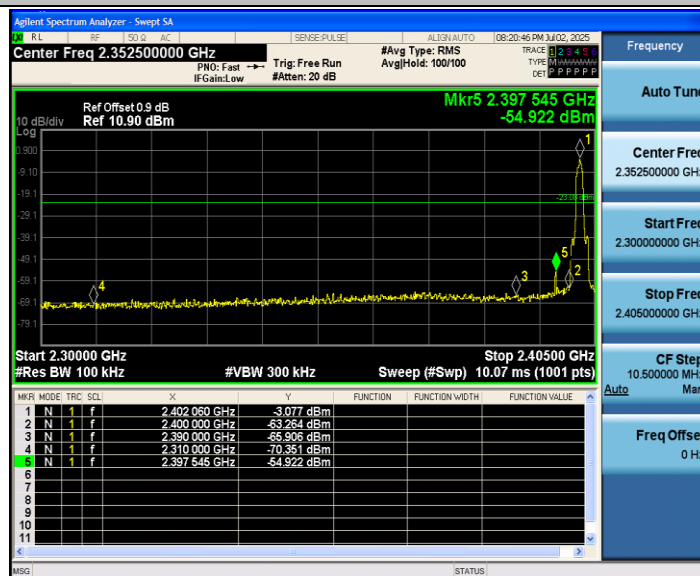




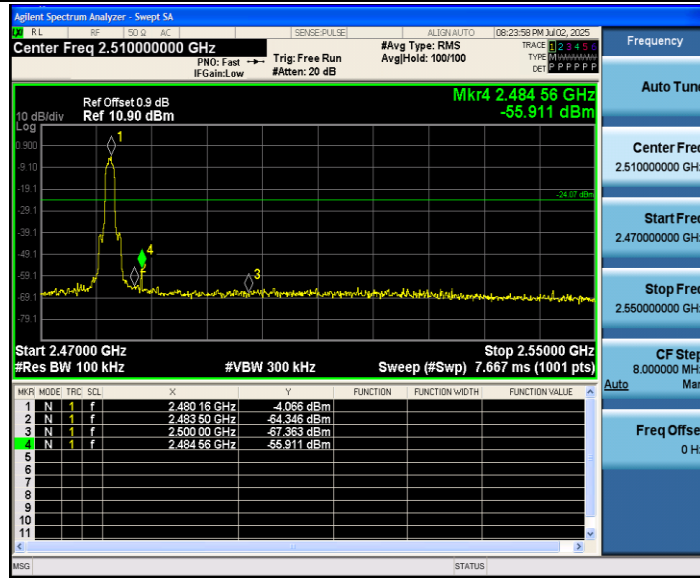
DH5_Ant1_High_Hop_2480



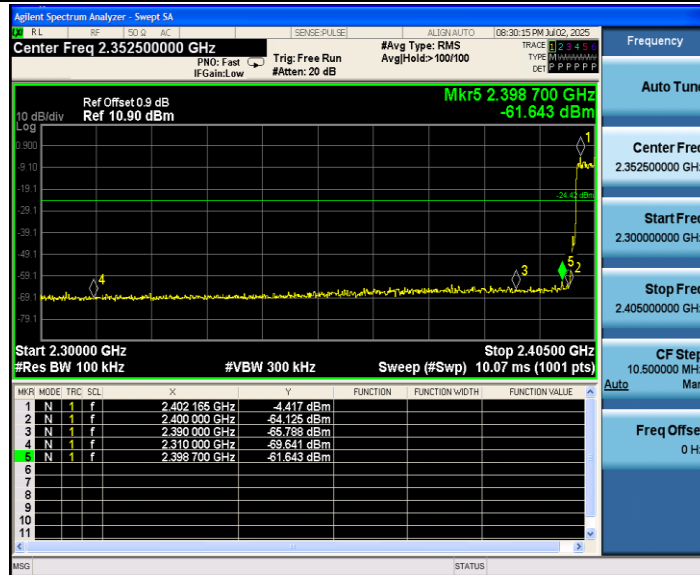
2DH5_Ant1_Low_2402



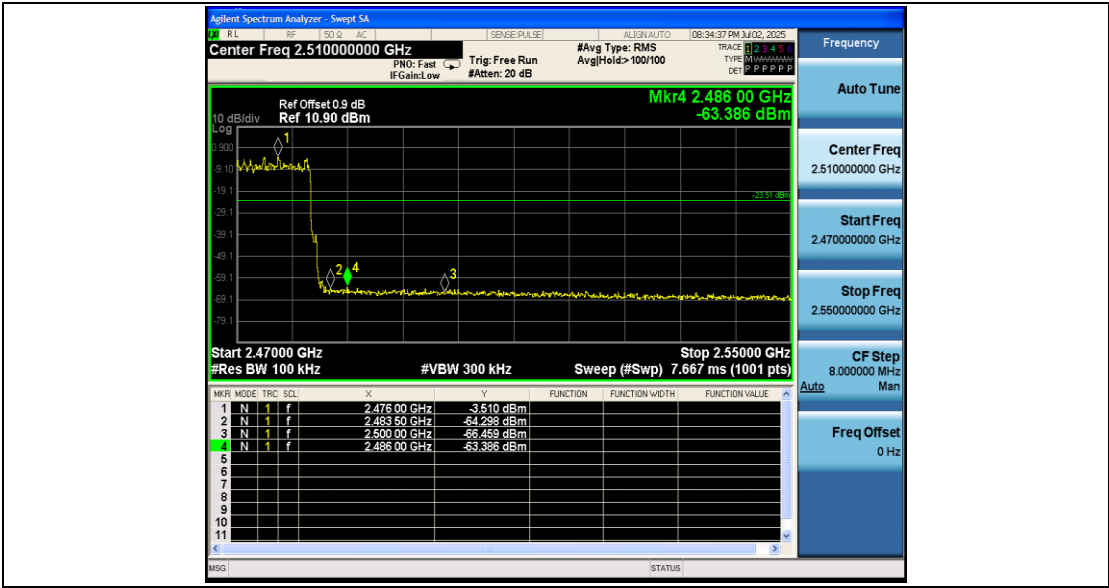
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

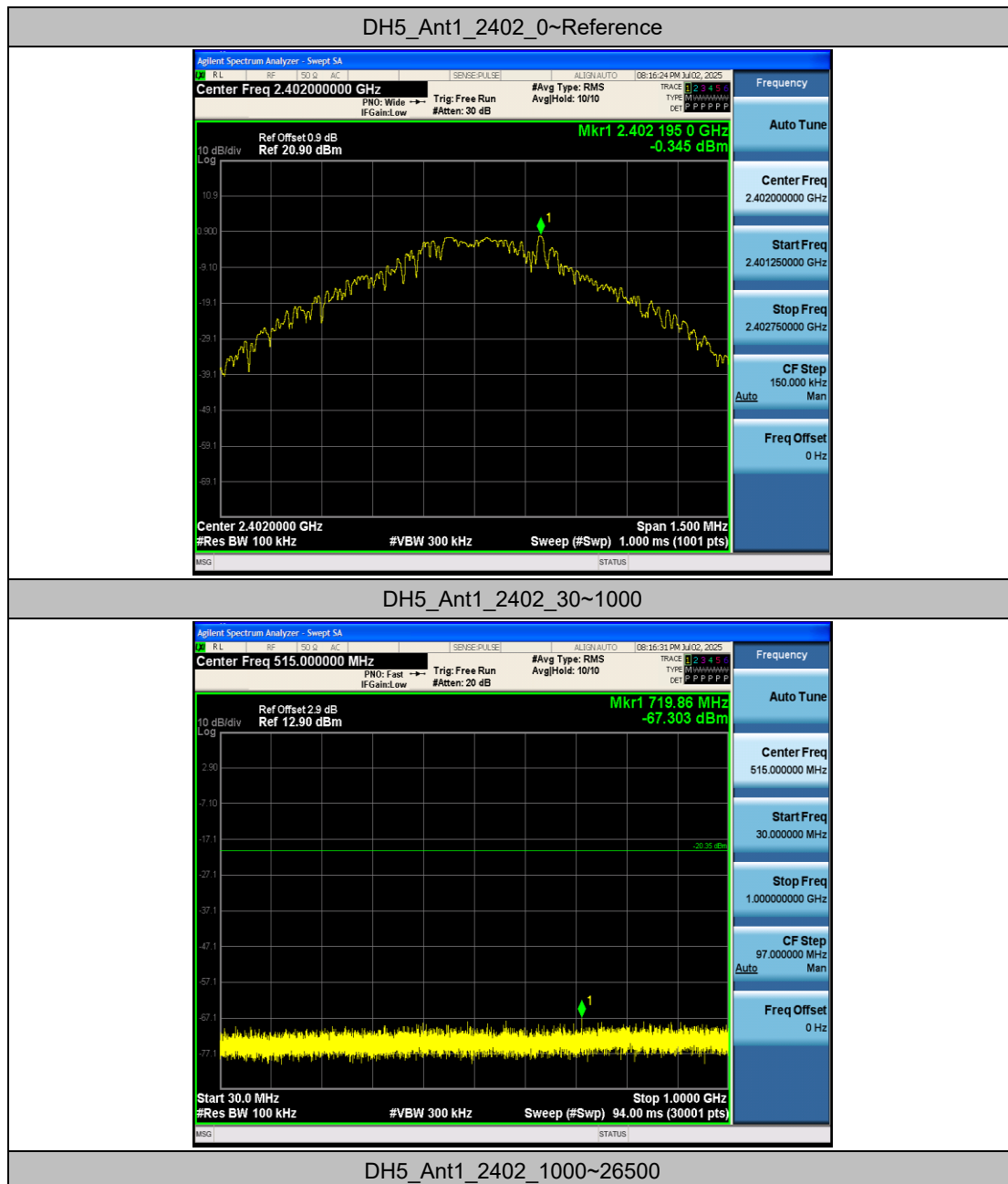


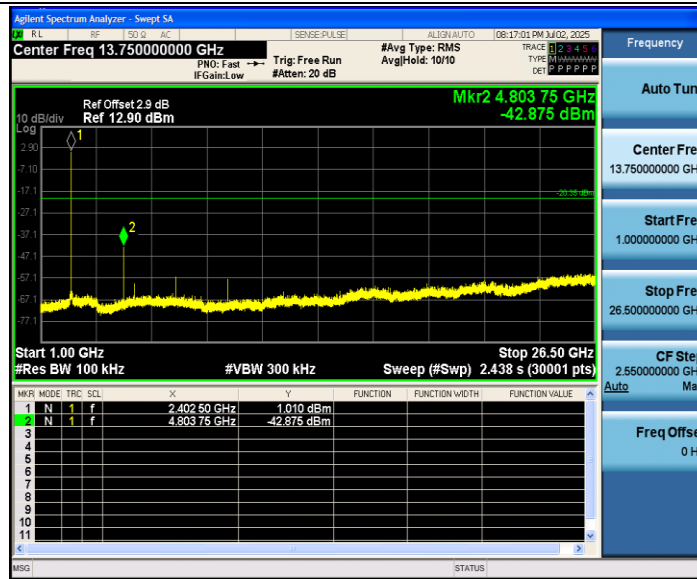
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-67.3	≤-20.35	PASS
			1000~26500	-0.35	-42.88	≤-20.35	PASS
		2441	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-67.14	≤-20.91	PASS
			1000~26500	-0.91	-43.78	≤-20.91	PASS
		2480	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-67.57	≤-21.04	PASS
			1000~26500	-1.04	-44.29	≤-21.04	PASS
2DH5	Ant1	2402	Reference	-4.52	-4.52	---	PASS
			30~1000	-4.52	-67.91	≤-24.52	PASS
			1000~26500	-4.52	-46.97	≤-24.52	PASS
		2441	Reference	-5.26	-5.26	---	PASS
			30~1000	-5.26	-67.7	≤-25.26	PASS
			1000~26500	-5.26	-47.74	≤-25.26	PASS
		2480	Reference	-4.31	-4.31	---	PASS
			30~1000	-4.31	-67.52	≤-24.31	PASS
			1000~26500	-4.31	-45.92	≤-24.31	PASS

Test Graphs

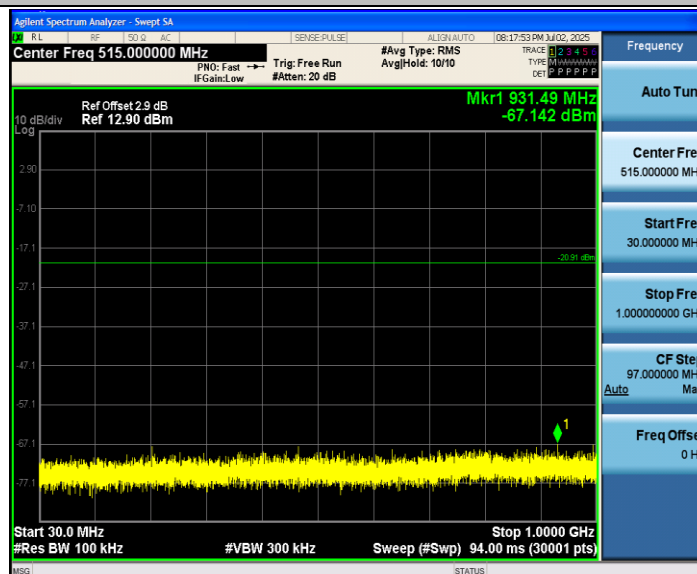




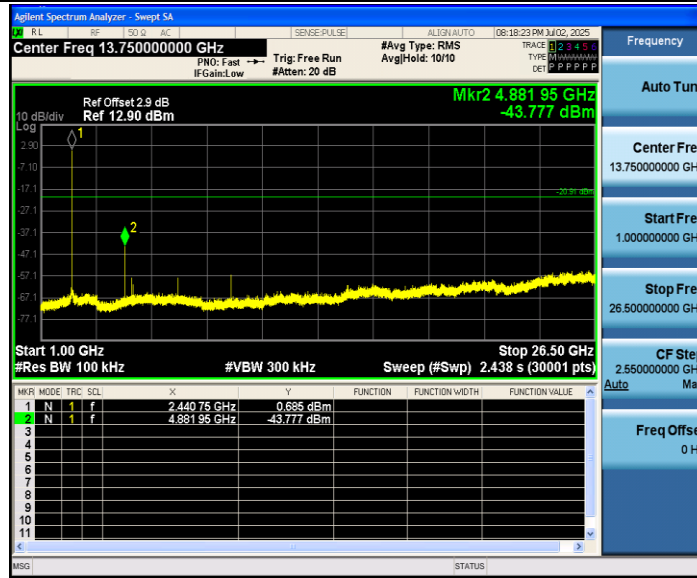
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



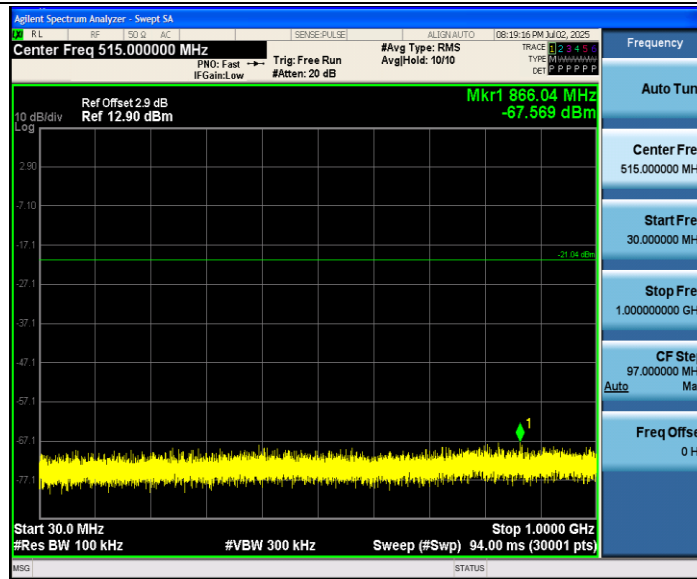
DH5_Ant1_2441_1000~26500



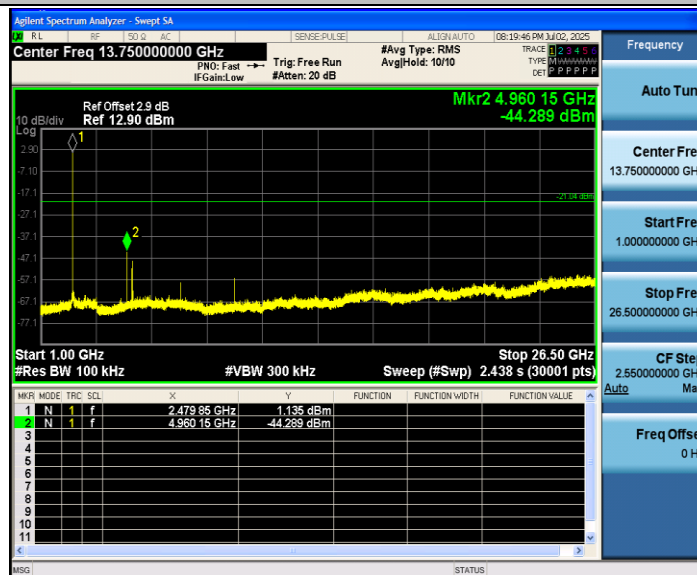
DH5_Ant1_2480_0~Reference



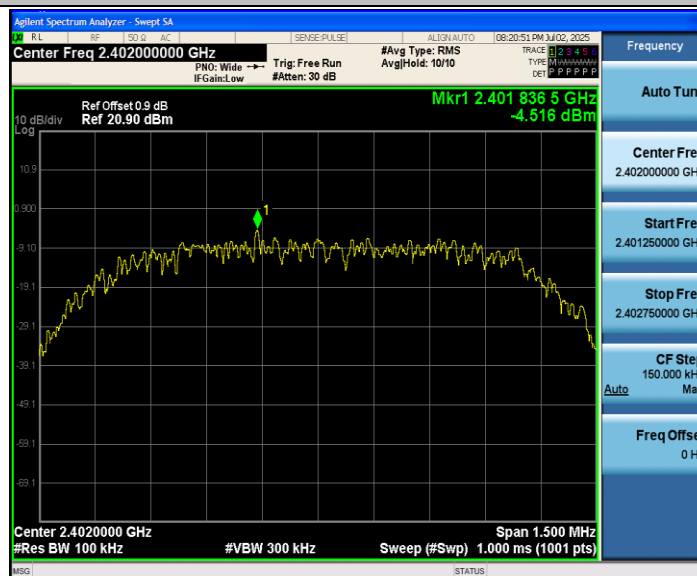
DH5_Ant1_2480_30~1000



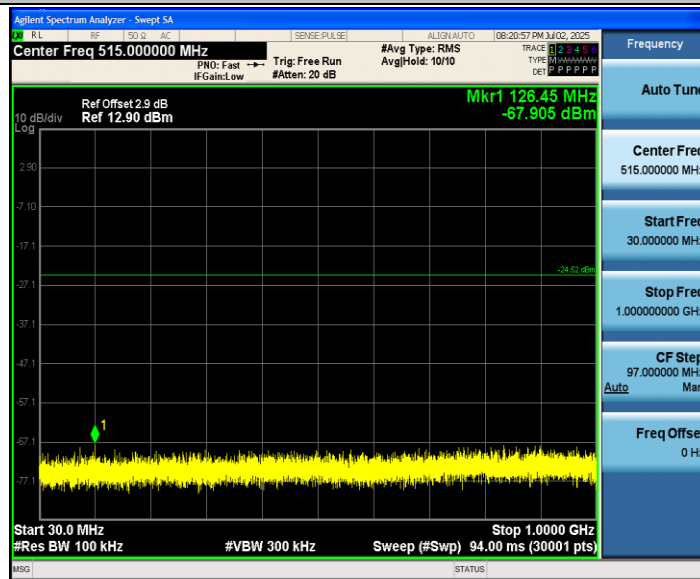
DH5_Ant1_2480_1000~26500



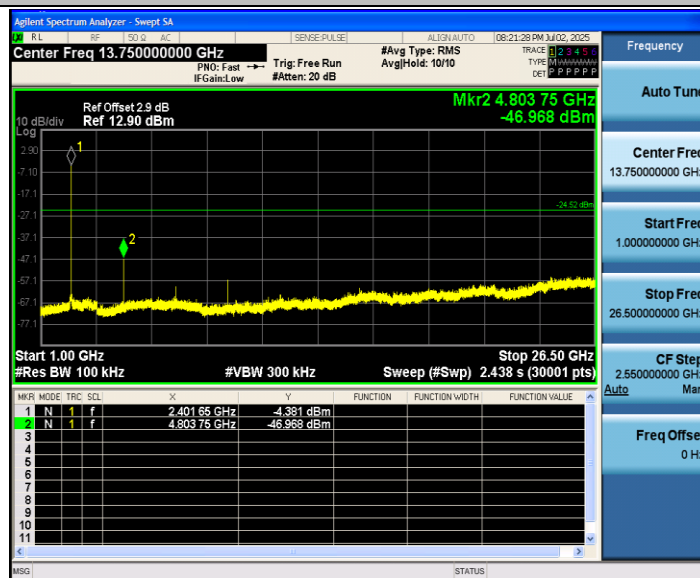
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



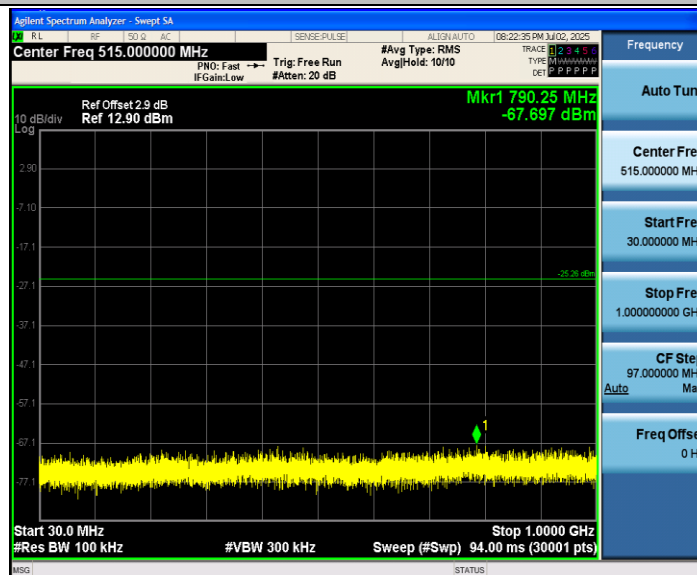
2DH5_Ant1_2402_1000~26500



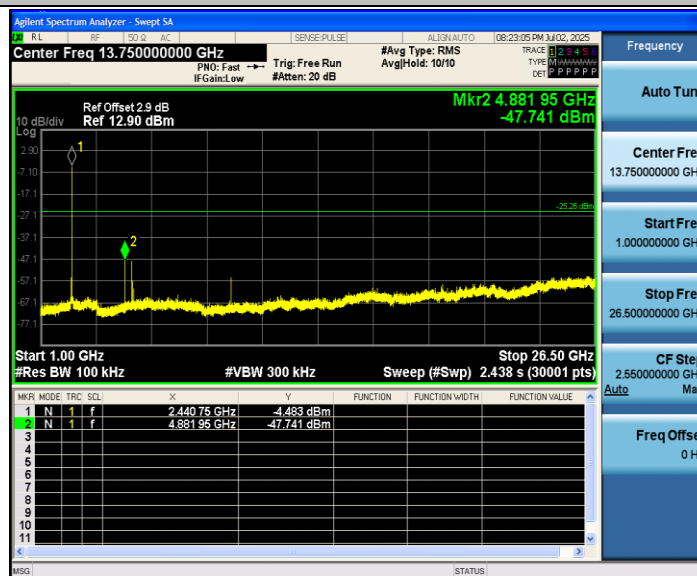
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



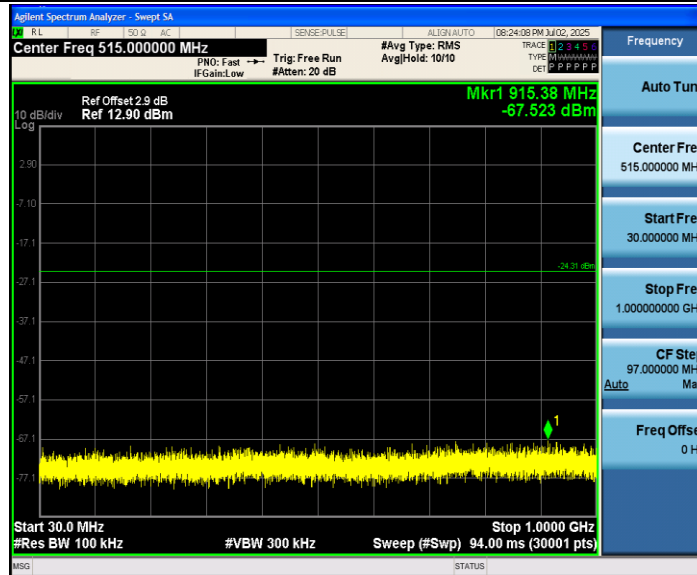
2DH5_Ant1_2441_1000~26500



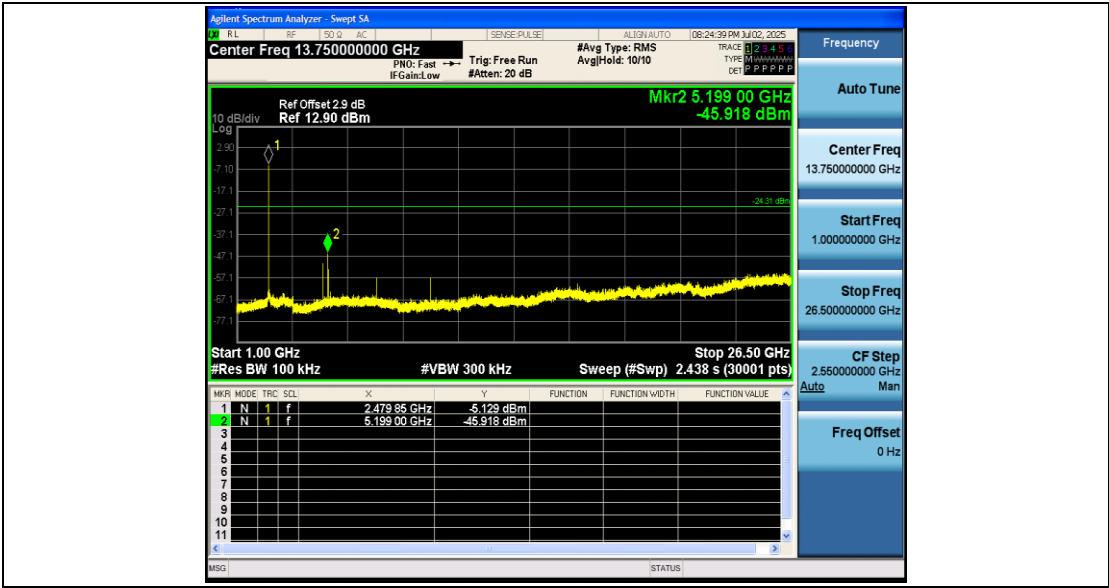
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

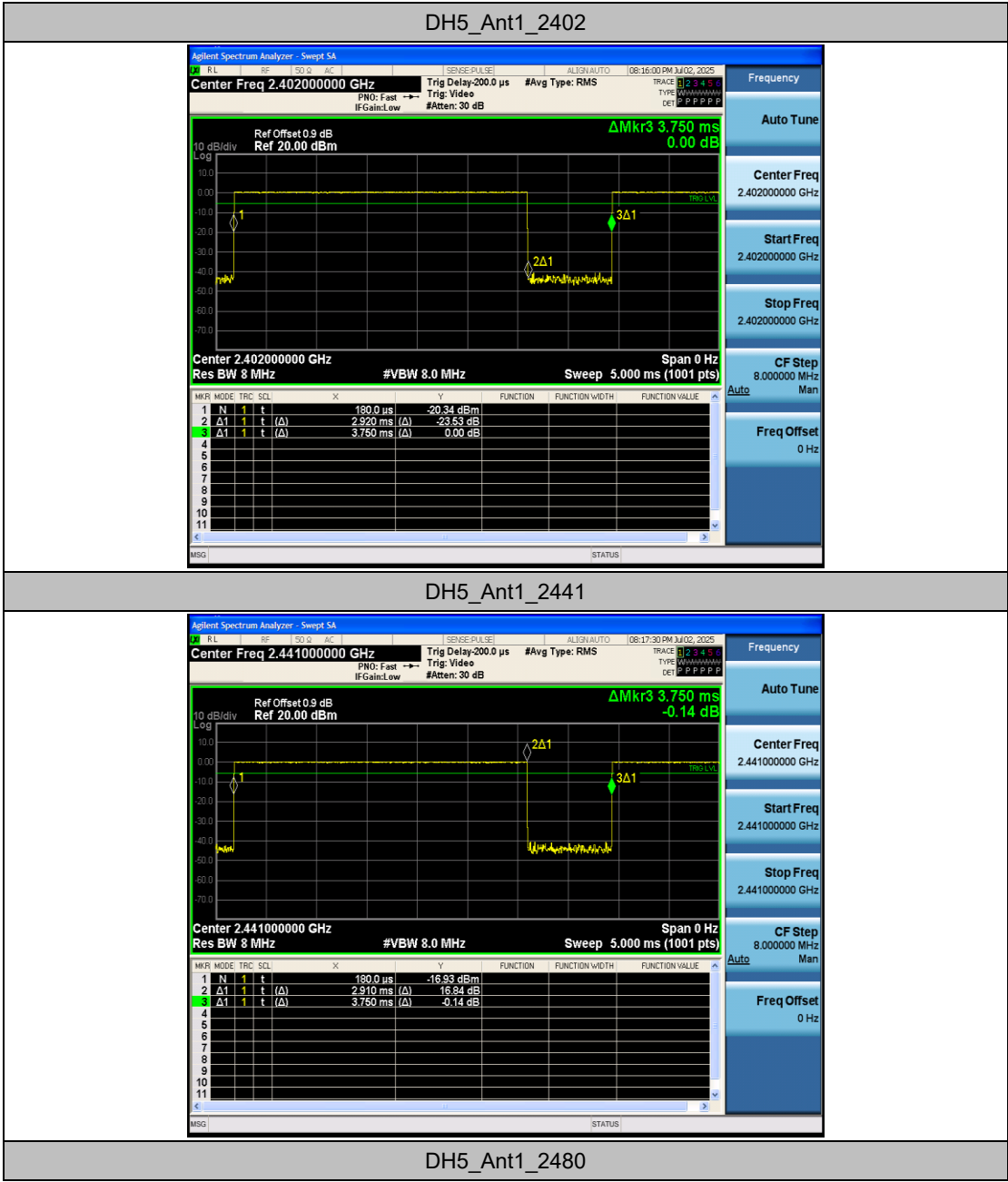


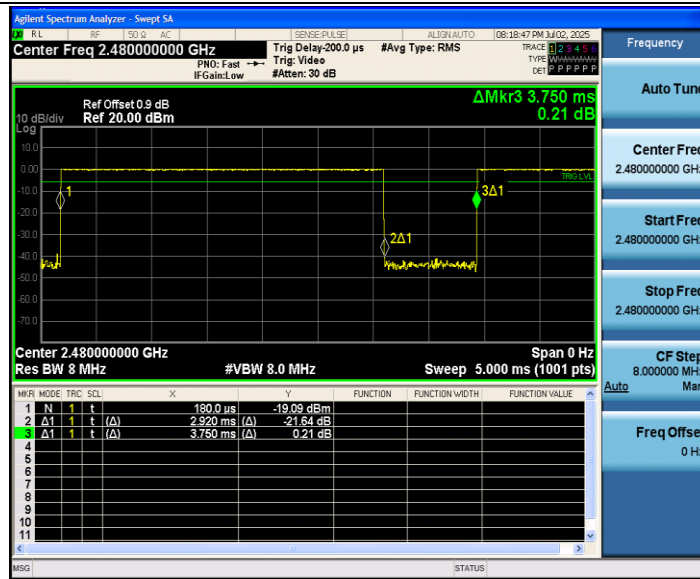
Appendix I: Duty Cycle

Test Result

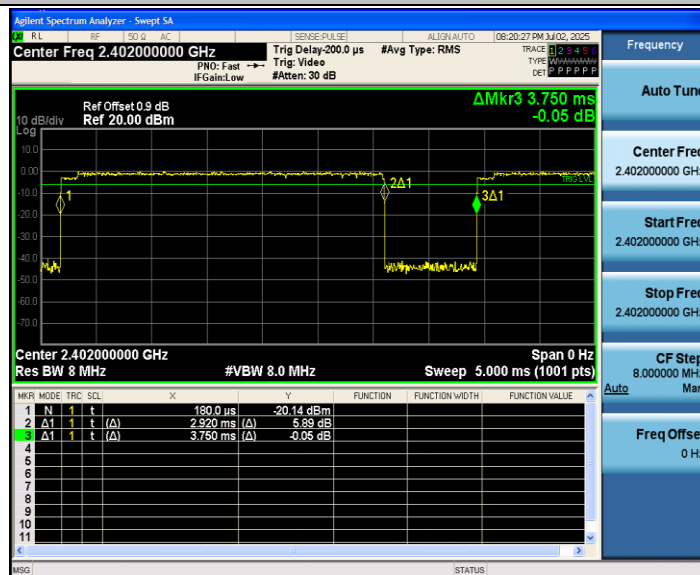
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---

Test Graphs

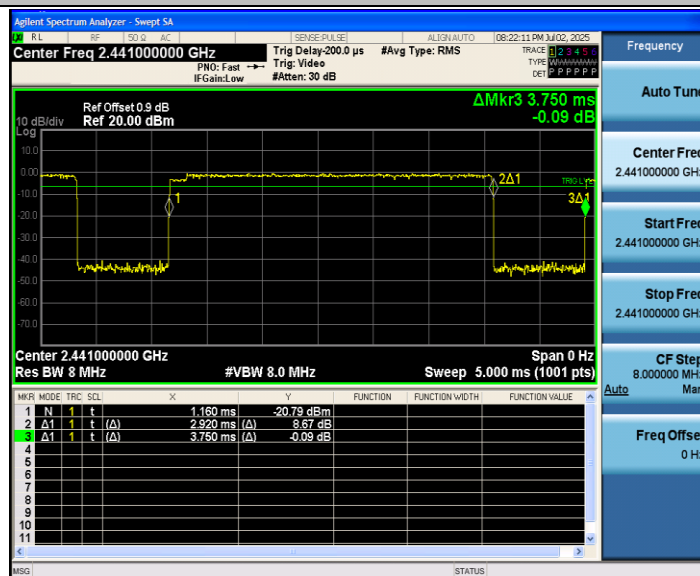




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

