

FCC Appendix RF Test Data for BT

FCC ID : 2A9YM-DPL1330L-W

Company : Guangdong SID Technology Co.,Ltd.

EUT : e-paper photo frame

Model Number : DPL1330L-W

Report No. : CTA26060901402

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	0.960	2440.544	2441.504	---	---
		2480	0.945	2479.550	2480.495	---	---
2DH5	Ant1	2402	1.332	2401.340	2402.672	---	---
		2441	1.344	2440.337	2441.681	---	---
		2480	1.353	2479.337	2480.690	---	---
3DH5	Ant1	2402	1.296	2401.361	2402.657	---	---
		2441	1.269	2440.373	2441.642	---	---
		2480	1.278	2479.364	2480.642	---	---

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.40200000 GHz

Ref Offset 0.5 dB
Ref 30.00 dBm

Trig: Free Run
#Atten: 40 dB

#Avg Type: RMS
AvgHold: 100/100

Span 3.000 MHz
Sweep 3.200 ms (1001 pts)

#Res BW 30 kHz
#VBW 100 kHz

ΔMkr3 945 kHz
0.057 dB

MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401550 GHz	-25.202 dBm			
2	N	1	f	2.402000 GHz	-5.009 dBm			
3	Δ	1	f (Δ)	945 kHz (Δ)	0.057 dB			

Frequency

Auto Tune

Center Freq
2.40200000 GHz

Start Freq
2.40050000 GHz

Stop Freq
2.40350000 GHz

CF Step
300.000 kHz
Man

Freq Offset
0 Hz

MSO

STATUS

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.441000000 GHz

Ref Offset 0.5 dB
Ref 30.00 dBm

Trig: Free Run
#Atten: 40 dB

#Avg Type: RMS
AvgHold: 100/100

Span 3.000 MHz
Sweep 3.200 ms (1001 pts)

#Res BW 30 kHz
#VBW 100 kHz

ΔMkr3 960 kHz
0.128 dB

MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.440544 GHz	-26.778 dBm			
2	N	1	f	2.440926 GHz	-6.340 dBm			
3	Δ	1	f (Δ)	960 kHz (Δ)	0.128 dB			

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.439500000 GHz

Stop Freq
2.442500000 GHz

CF Step
300.000 kHz
Man

Freq Offset
0 Hz

MSO

STATUS



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_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	0.85385	2401.5832	2402.4371	---	---
		2441	0.85598	2440.5835	2441.4395	---	---
		2480	0.86293	2479.5764	2480.4393	---	---
2DH5	Ant1	2402	1.1956	2401.4124	2402.6080	---	---
		2441	1.1915	2440.4126	2441.6041	---	---
		2480	1.1905	2479.4159	2480.6064	---	---
3DH5	Ant1	2402	1.1931	2401.4143	2402.6074	---	---
		2441	1.1828	2440.4197	2441.6025	---	---
		2480	1.1927	2479.4158	2480.6085	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result

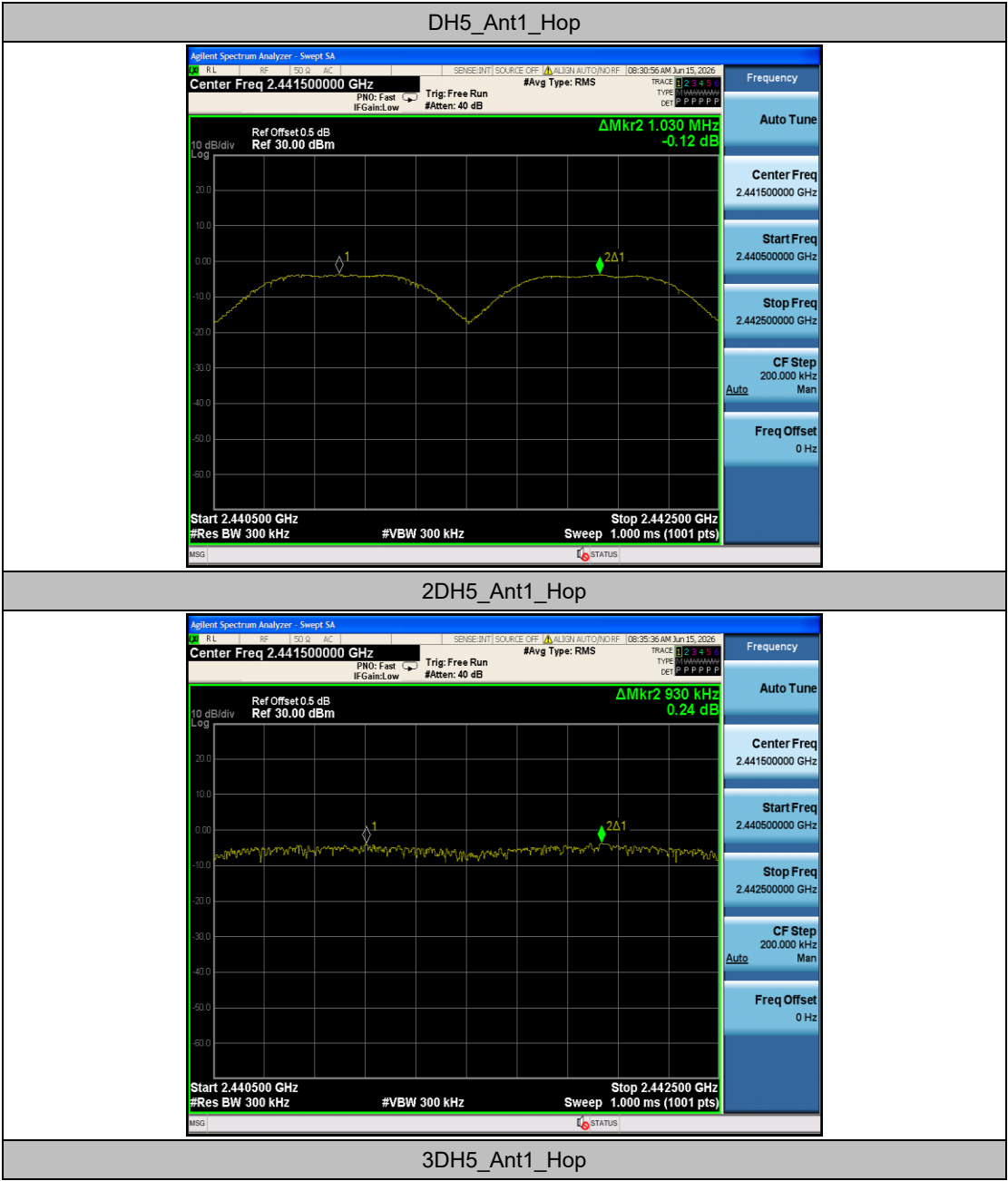
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.33	≤20.97	PASS
		2441	-3.33	≤20.97	PASS
		2480	-3.59	≤20.97	PASS
2DH5	Ant1	2402	-0.69	≤20.97	PASS
		2441	-0.77	≤20.97	PASS
		2480	-1.04	≤20.97	PASS
3DH5	Ant1	2402	-0.29	≤20.97	PASS
		2441	-0.38	≤20.97	PASS
		2480	-0.63	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.03	≥ 0.960	PASS
2DH5	Ant1	Hop	0.93	≥ 0.902	PASS
3DH5	Ant1	Hop	1.226	≥ 0.864	PASS

Test Graphs



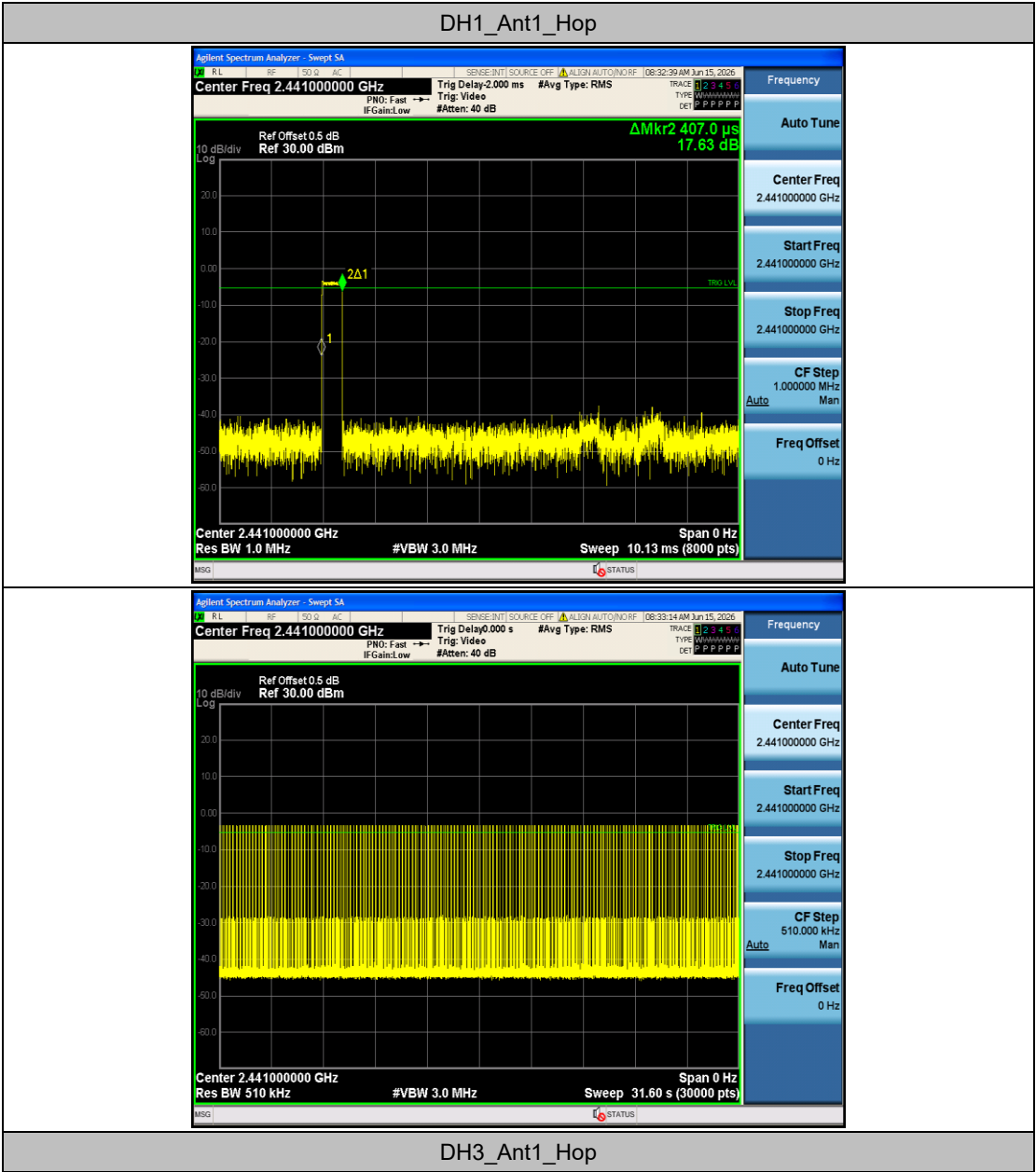


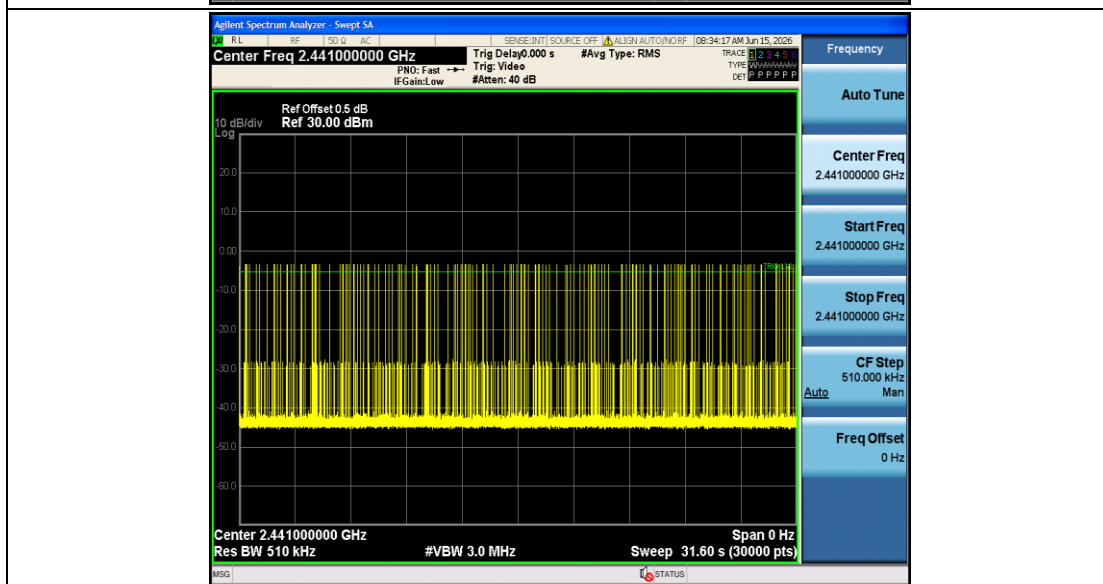
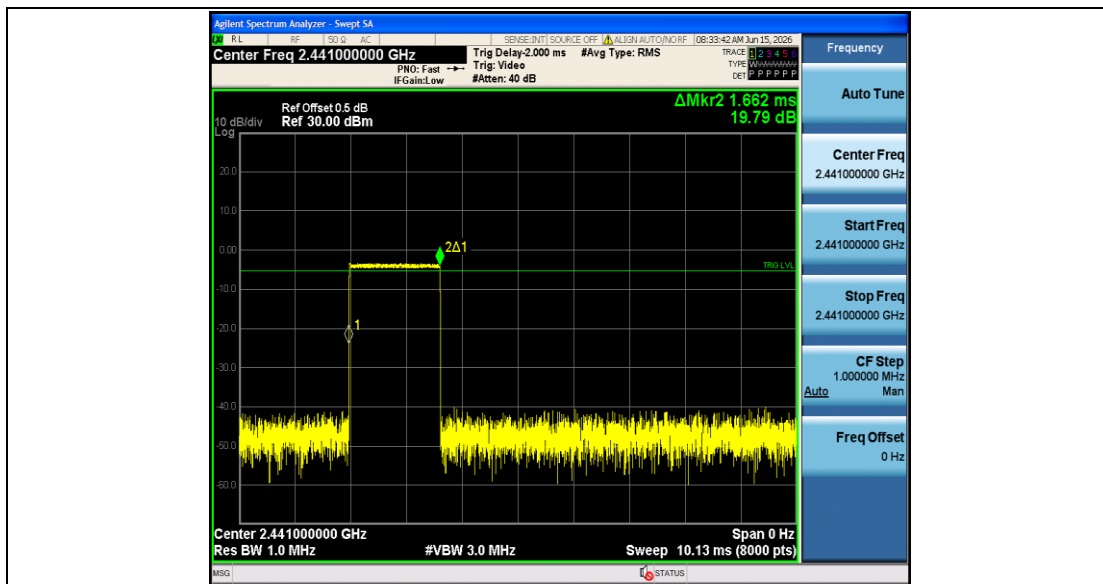
Appendix E: Time of occupancy

Test Result

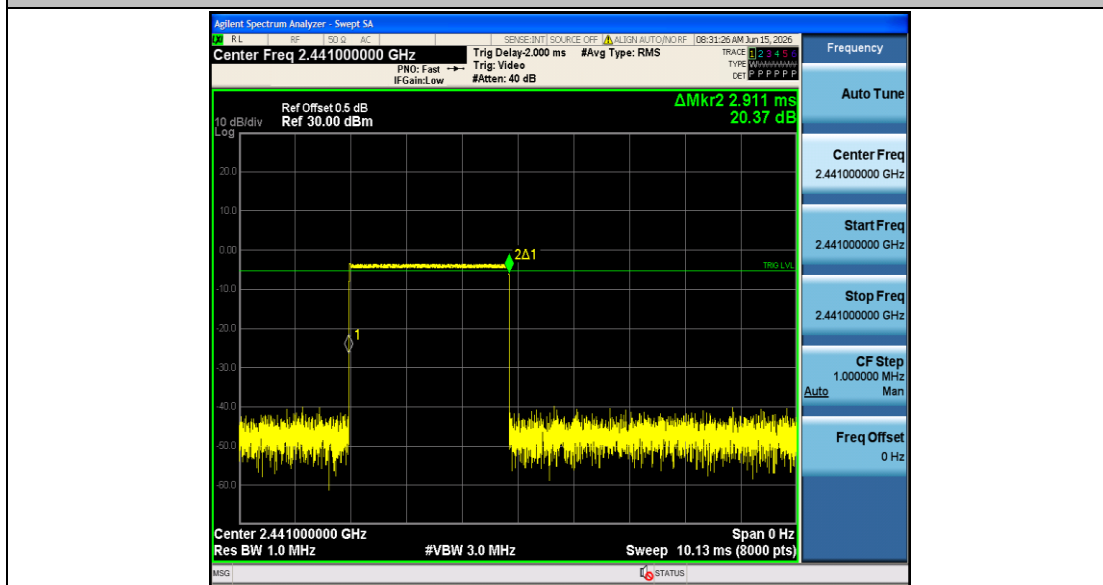
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	317	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	156	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.911	113	0.329	≤0.4	PASS
2DH1	Ant1	Hop	0.417	318	0.133	≤0.4	PASS
2DH3	Ant1	Hop	1.668	156	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.916	105	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.415	317	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	159	0.265	≤0.4	PASS
3DH5	Ant1	Hop	2.917	104	0.303	≤0.4	PASS

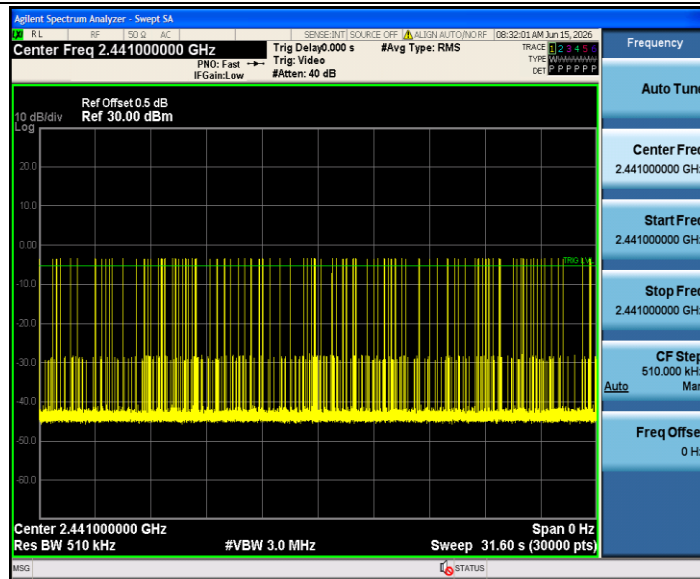
Test Graphs



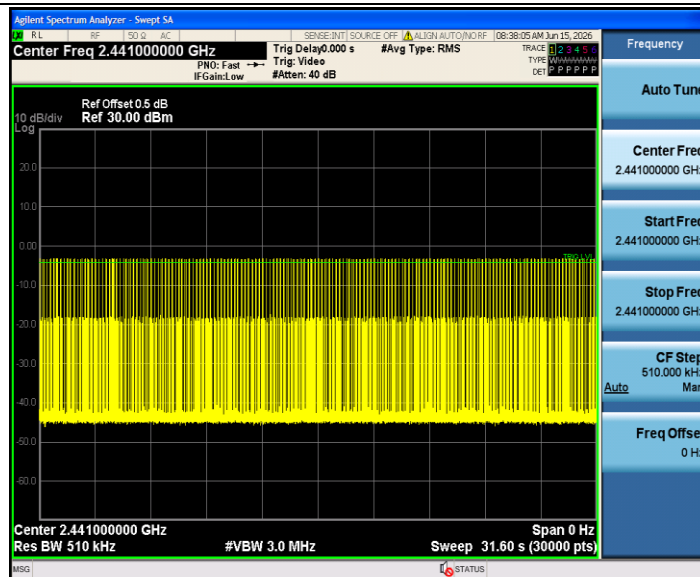
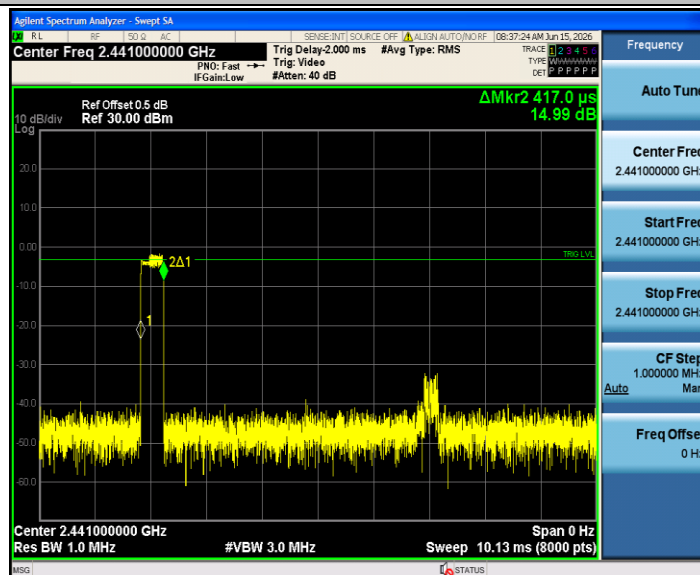


DH5_Ant1_Hop

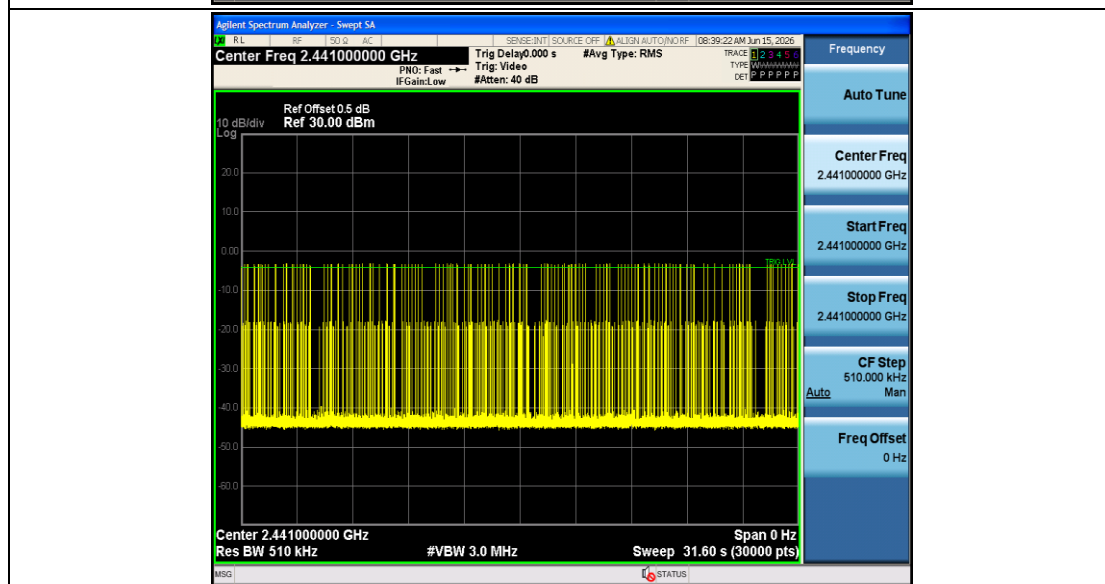
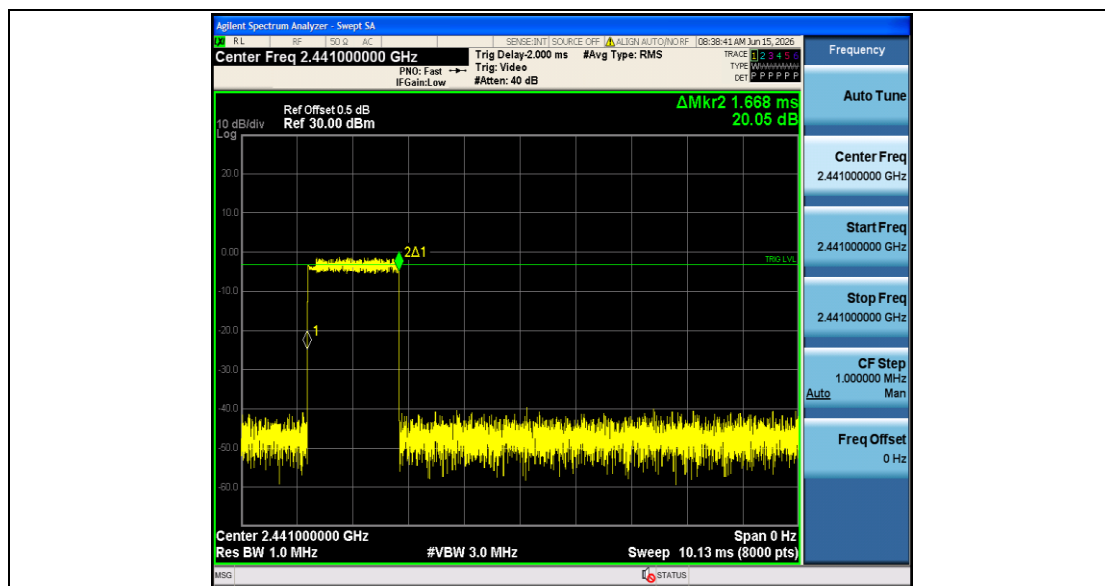




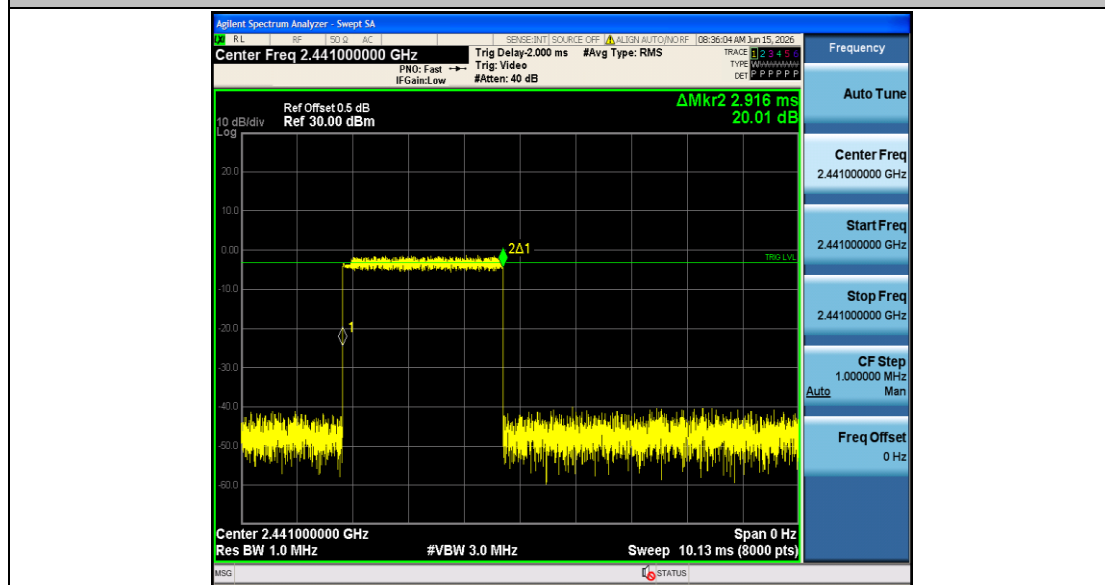
2DH1_Ant1_Hop

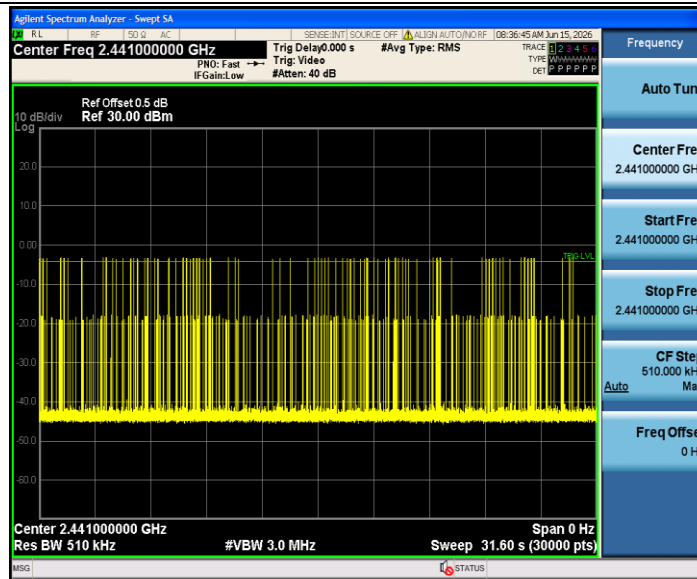


2DH3_Ant1_Hop

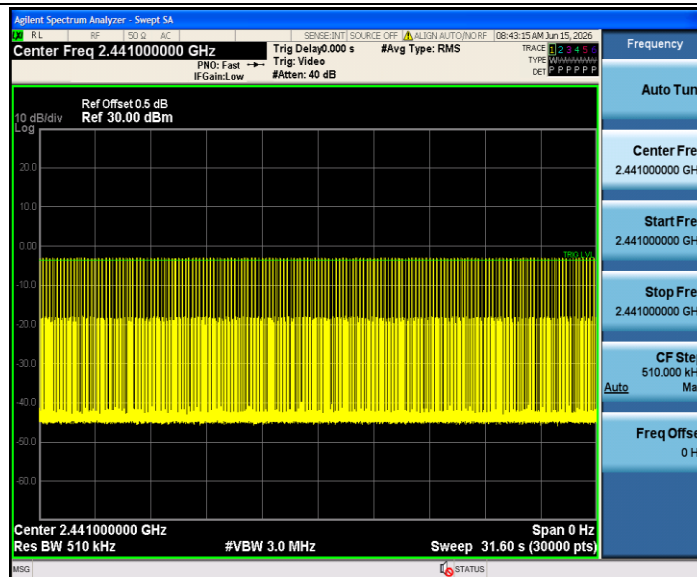
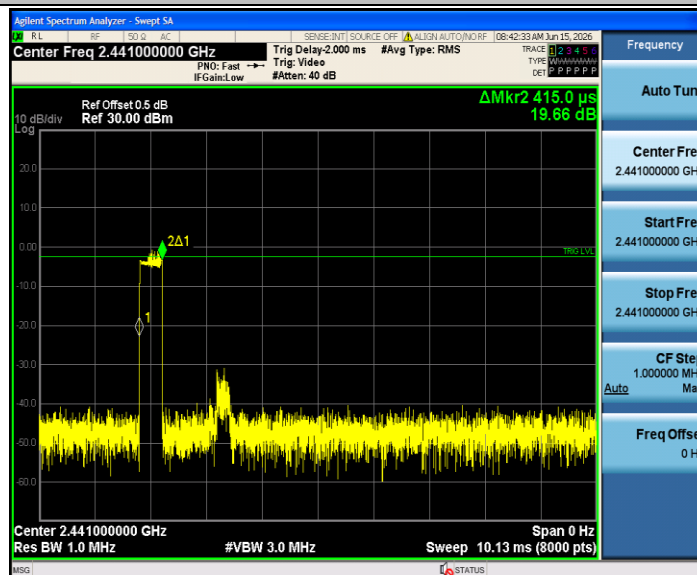


2DH5_Ant1_Hop

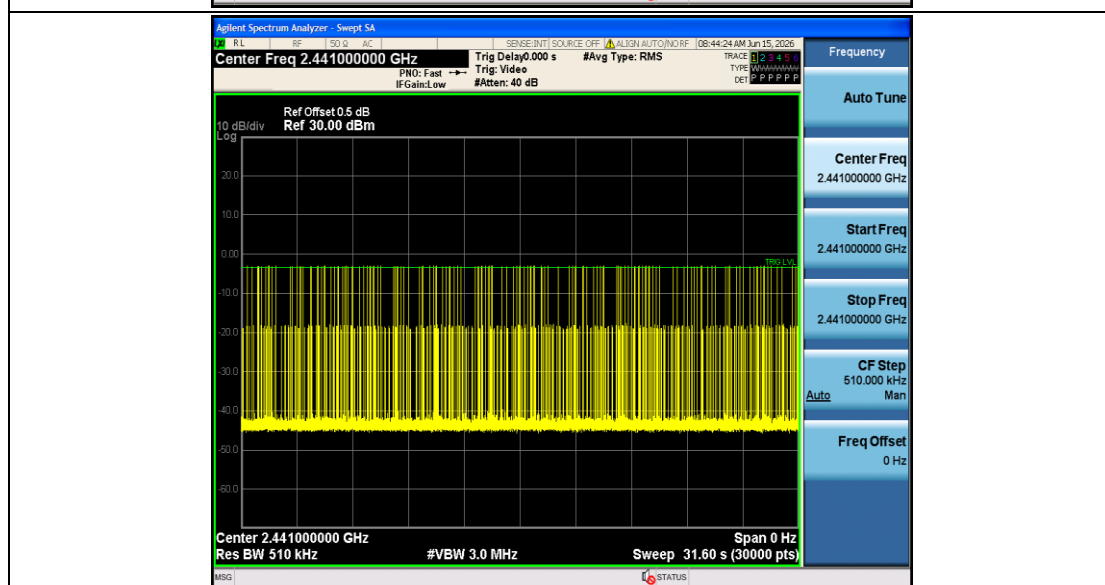
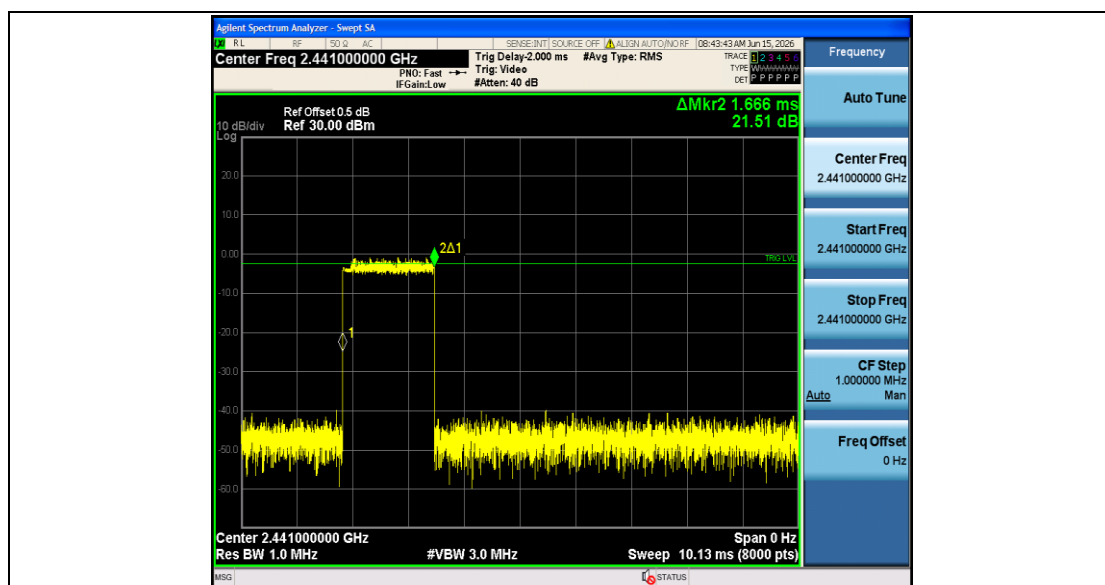




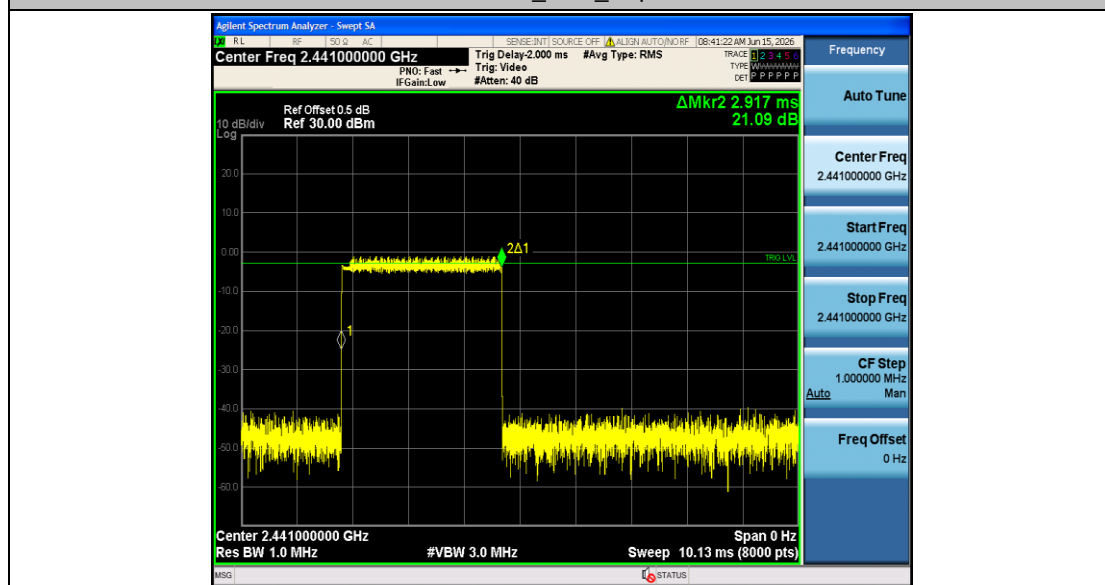
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

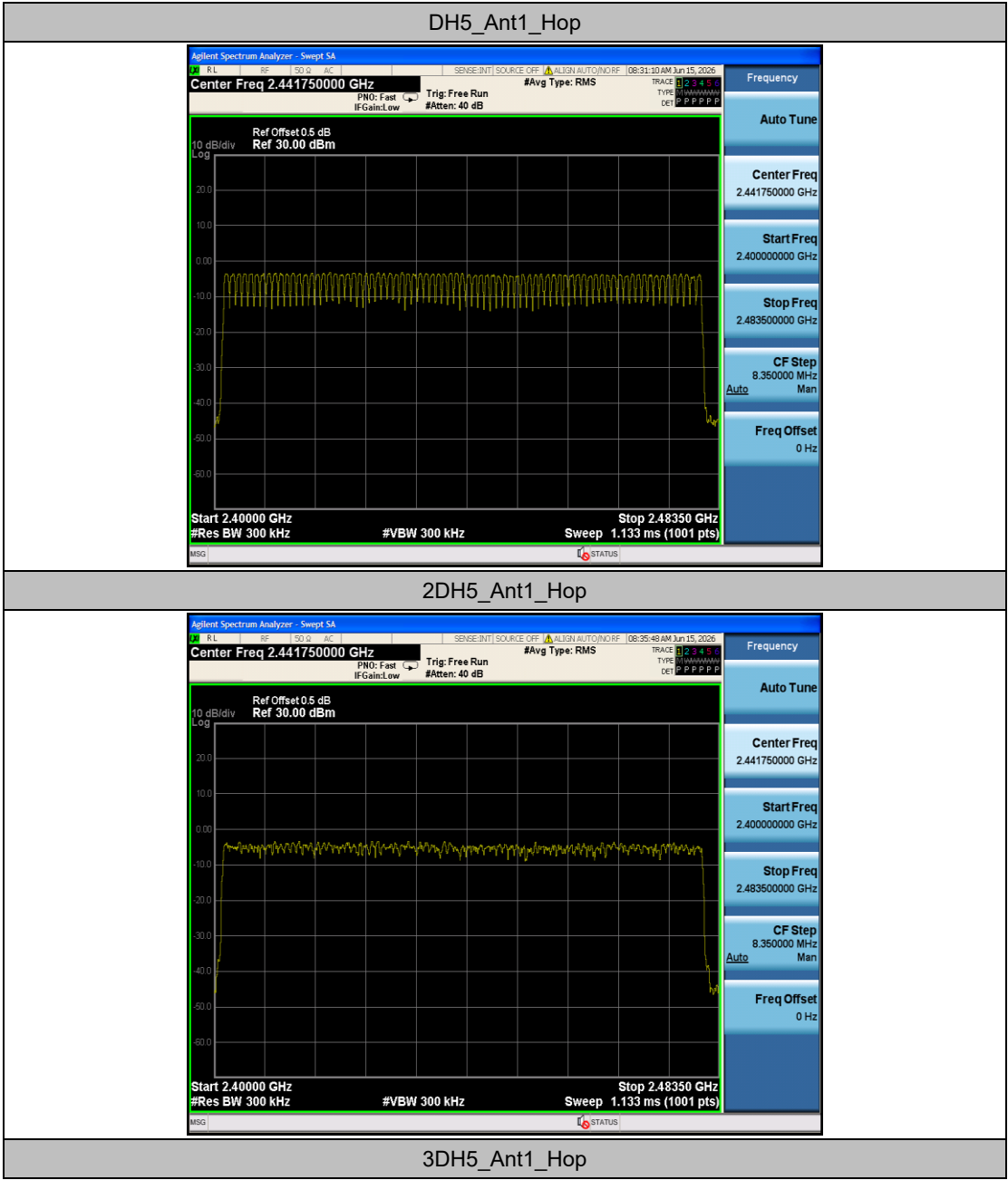


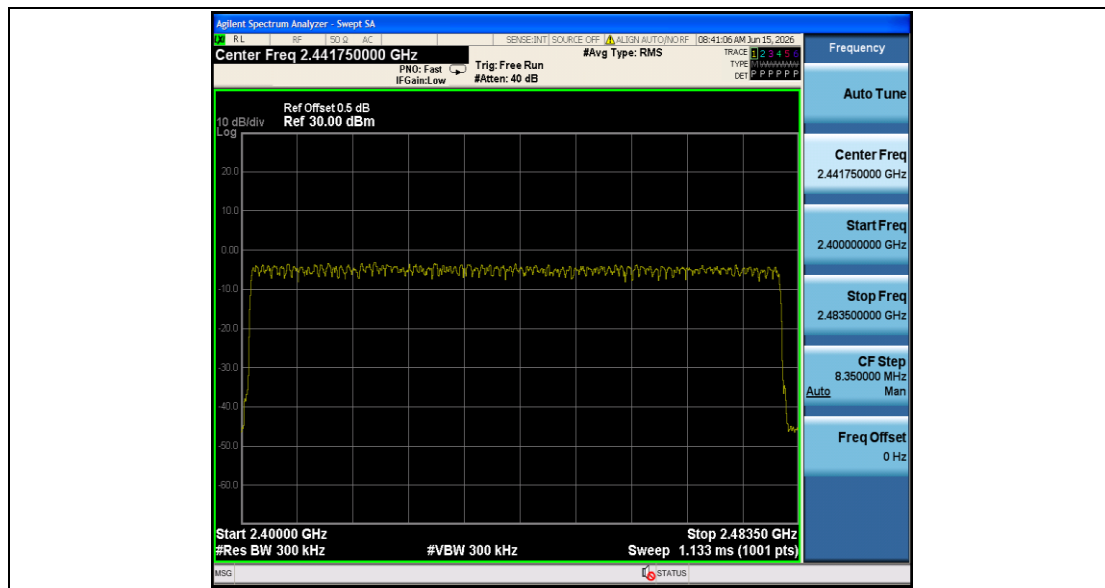
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



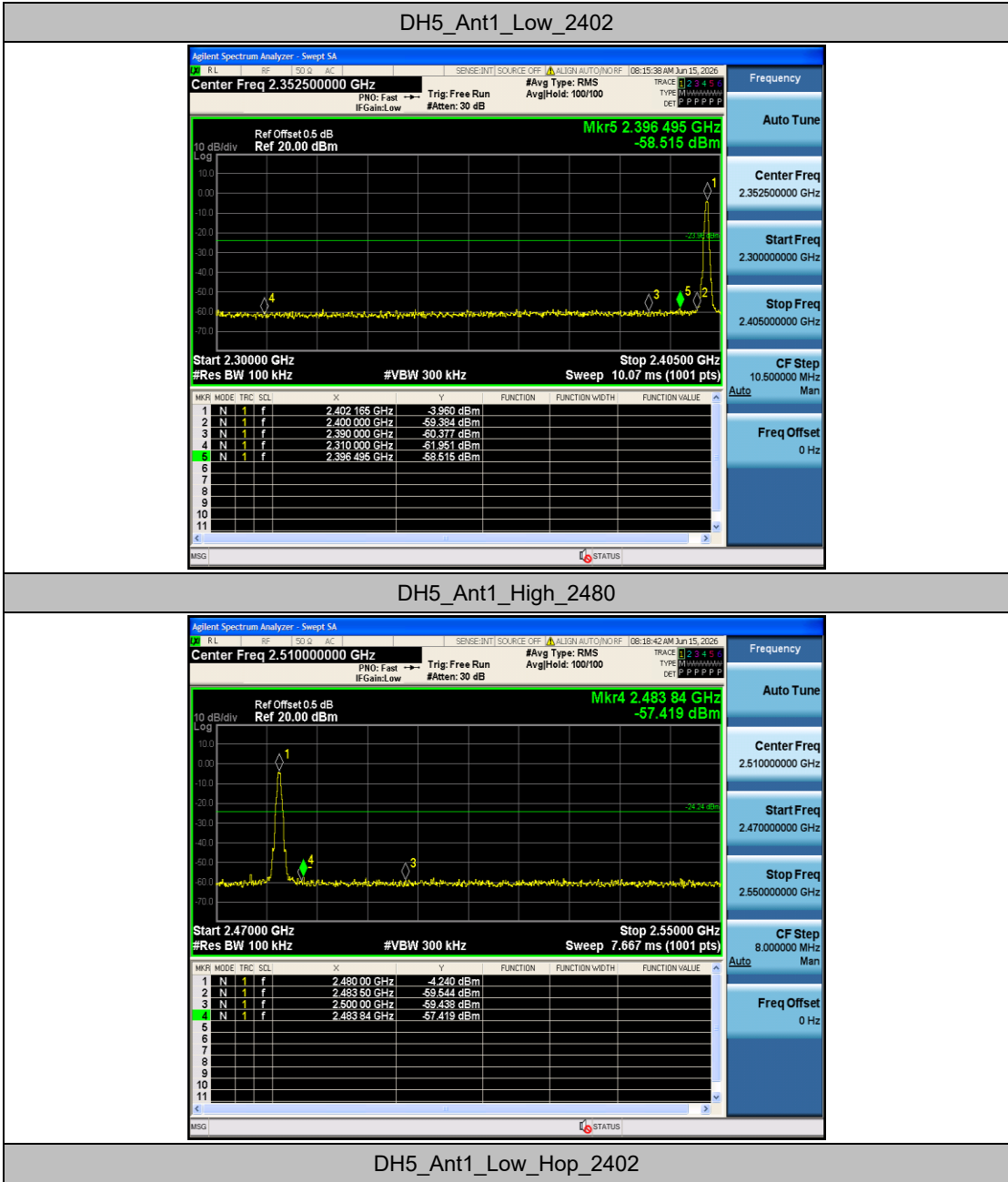


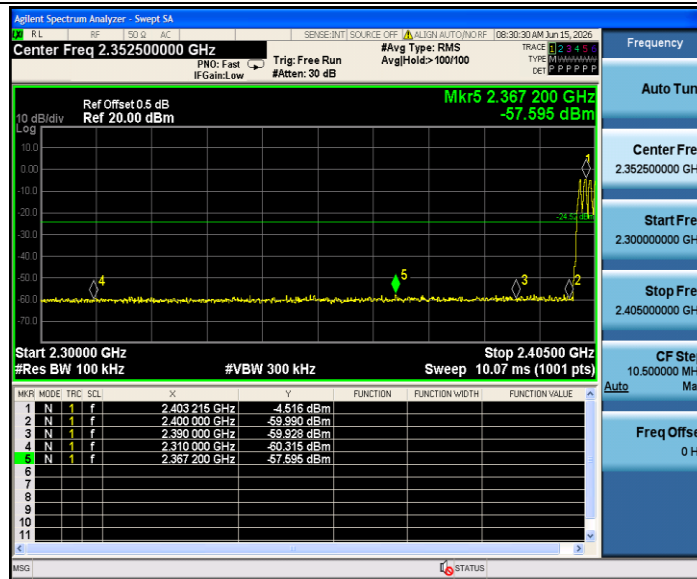
Appendix G: Band edge measurements

Test Result

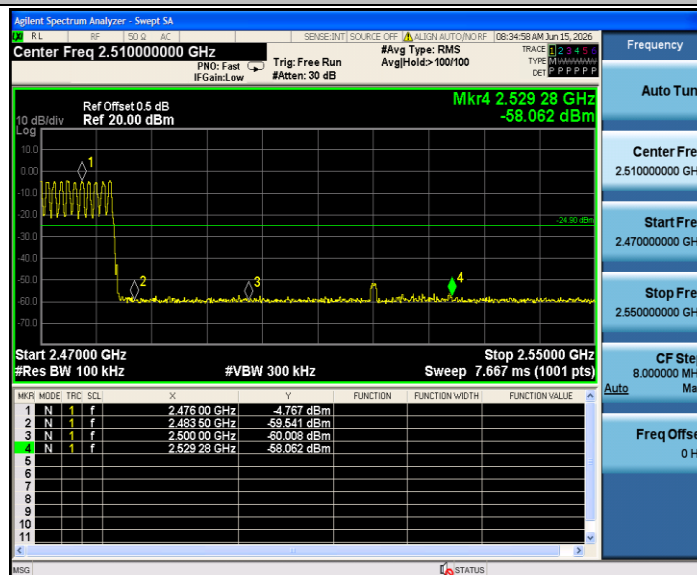
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.96	-58.52	≤-23.96	PASS
		High	2480	-4.24	-57.42	≤-24.24	PASS
		Low	Hop_2402	-4.52	-57.6	≤-24.52	PASS
		High	Hop_2480	-4.90	-58.06	≤-24.9	PASS
2DH5	Ant1	Low	2402	-4.70	-57.42	≤-24.7	PASS
		High	2480	-6.16	-57.17	≤-26.16	PASS
		Low	Hop_2402	-4.70	-57.65	≤-24.7	PASS
		High	Hop_2480	-3.96	-46.58	≤-23.96	PASS
3DH5	Ant1	Low	2402	-5.41	-57.01	≤-25.41	PASS
		High	2480	-4.39	-56.69	≤-24.39	PASS
		Low	Hop_2402	-5.85	-57.77	≤-25.85	PASS
		High	Hop_2480	-4.50	-47.32	≤-24.5	PASS

Test Graphs

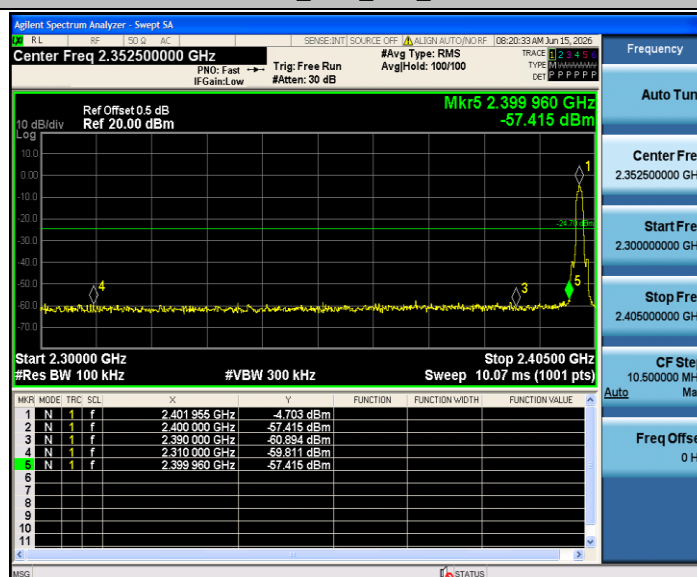




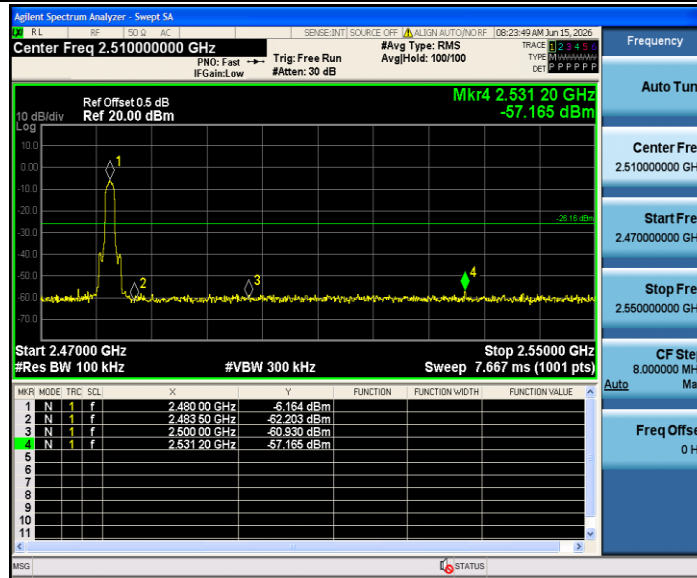
DH5_Ant1_High_Hop_2480



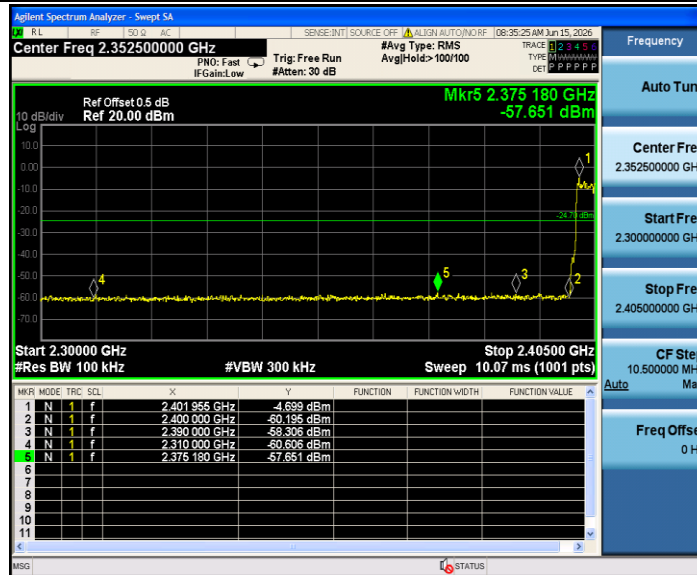
2DH5_Ant1_Low_2402



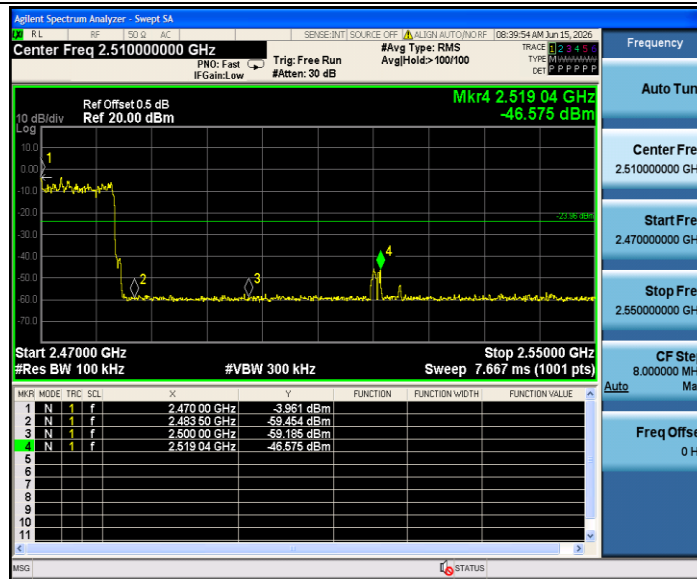
2DH5_Ant1_High_2480



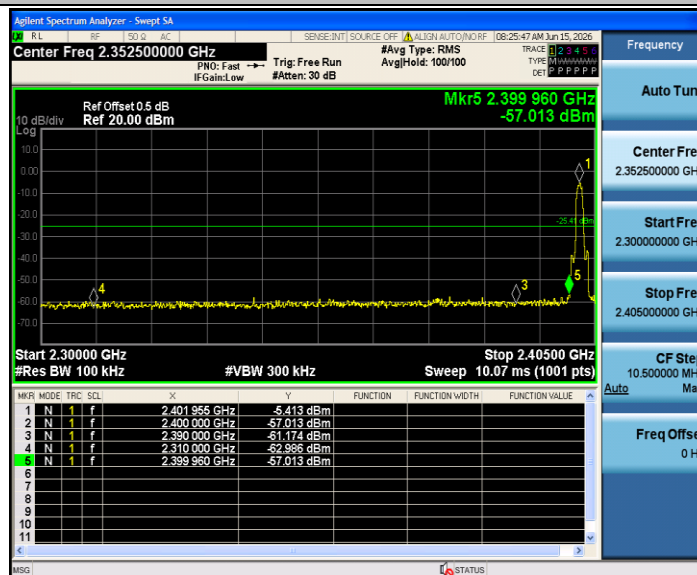
2DH5_Ant1_Low_Hop_2402



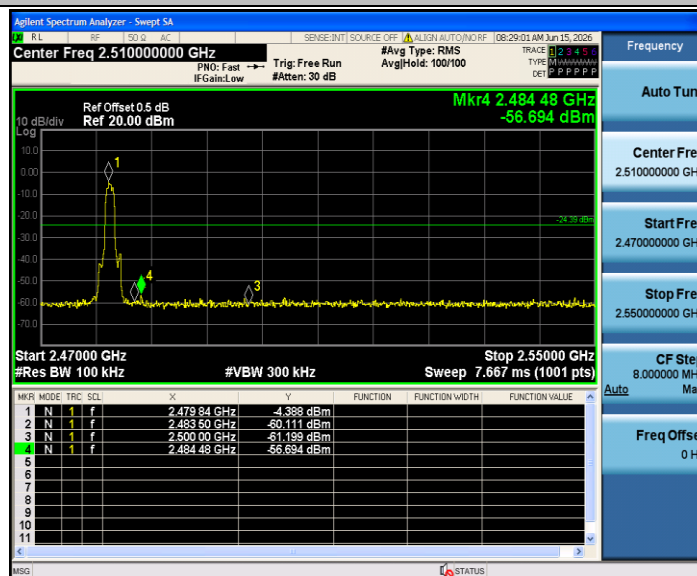
2DH5_Ant1_High_Hop_2480



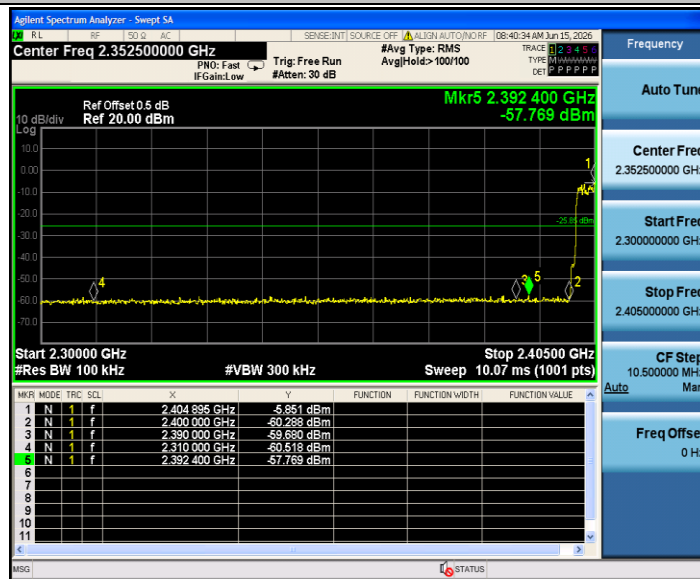
3DH5_Ant1_Low_2402



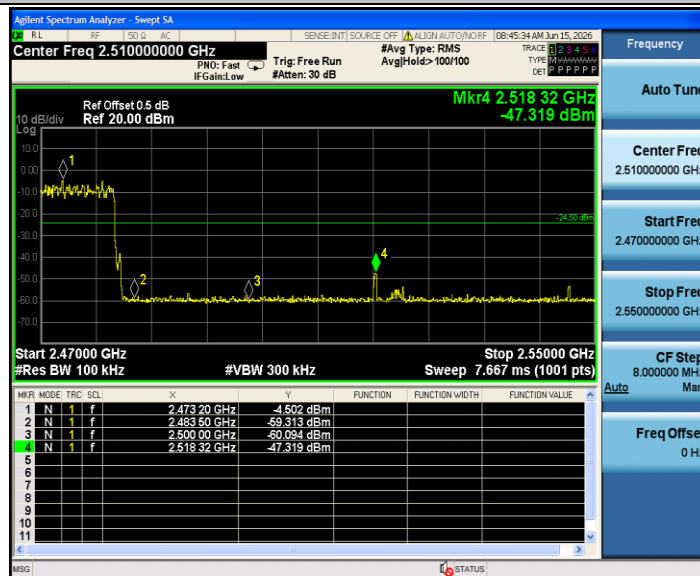
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

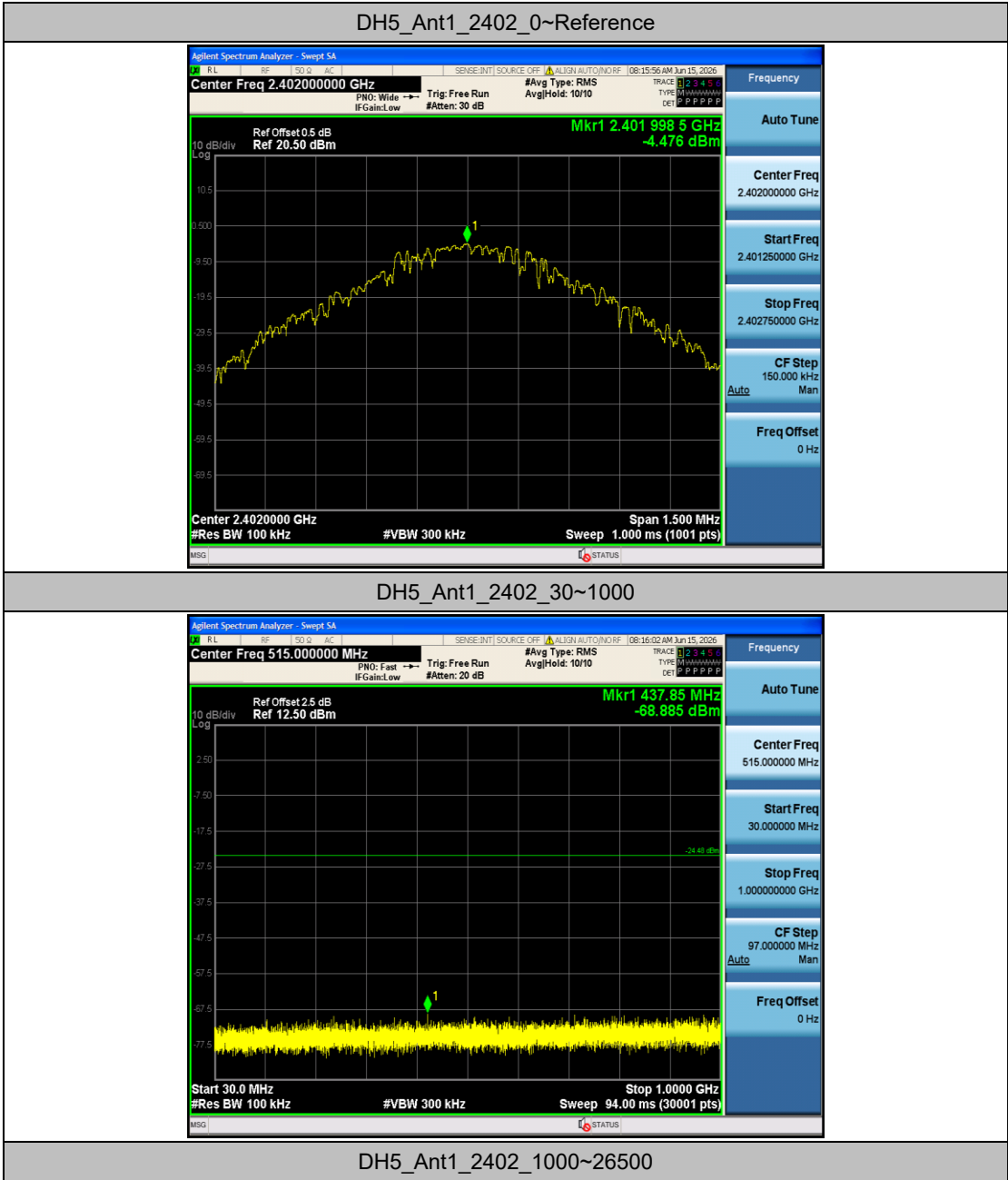


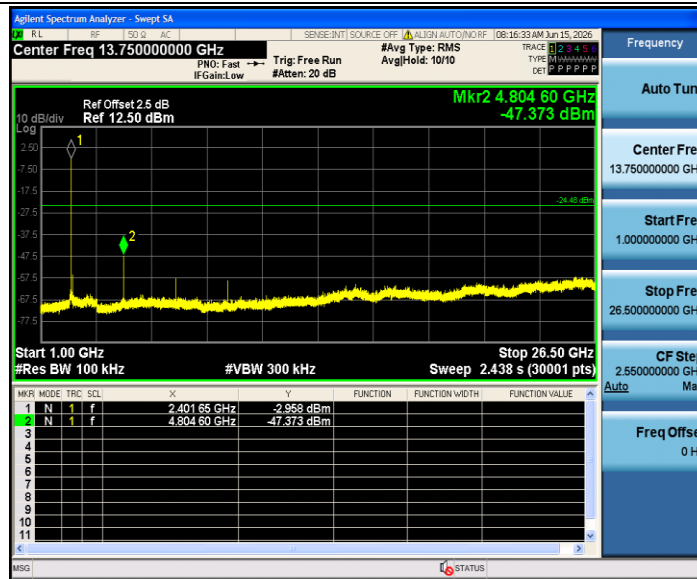
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-68.89	≤-24.48	PASS
			1000~26500	-4.48	-47.37	≤-24.48	PASS
		2441	Reference	-4.41	-4.41	---	PASS
			30~1000	-4.41	-68.46	≤-24.41	PASS
			1000~26500	-4.41	-46.14	≤-24.41	PASS
		2480	Reference	-4.78	-4.78	---	PASS
			30~1000	-4.78	-69.18	≤-24.78	PASS
			1000~26500	-4.78	-47.47	≤-24.78	PASS
2DH5	Ant1	2402	Reference	-5.45	-5.45	---	PASS
			30~1000	-5.45	-68.31	≤-25.45	PASS
			1000~26500	-5.45	-48.8	≤-25.45	PASS
		2441	Reference	-5.10	-5.10	---	PASS
			30~1000	-5.10	-69.11	≤-25.1	PASS
			1000~26500	-5.10	-49.27	≤-25.1	PASS
		2480	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-68.59	≤-25.11	PASS
			1000~26500	-5.11	-46.39	≤-25.11	PASS
3DH5	Ant1	2402	Reference	-4.99	-4.99	---	PASS
			30~1000	-4.99	-67.62	≤-24.99	PASS
			1000~26500	-4.99	-48.09	≤-24.99	PASS
		2441	Reference	-4.27	-4.27	---	PASS
			30~1000	-4.27	-67.74	≤-24.27	PASS
			1000~26500	-4.27	-48.12	≤-24.27	PASS
		2480	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-68.35	≤-25	PASS
			1000~26500	-5.00	-48.69	≤-25	PASS

Test Graphs

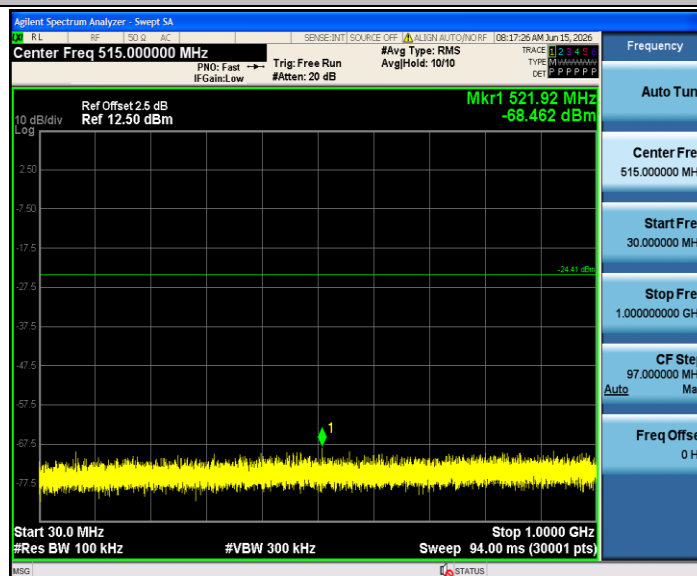




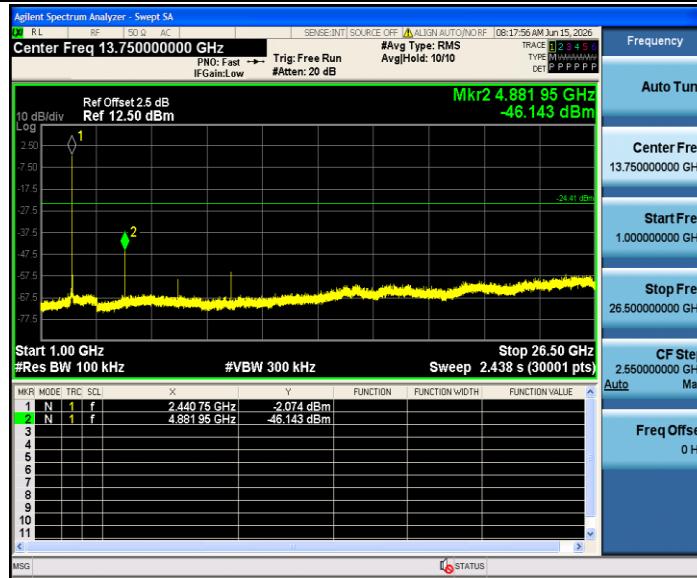
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



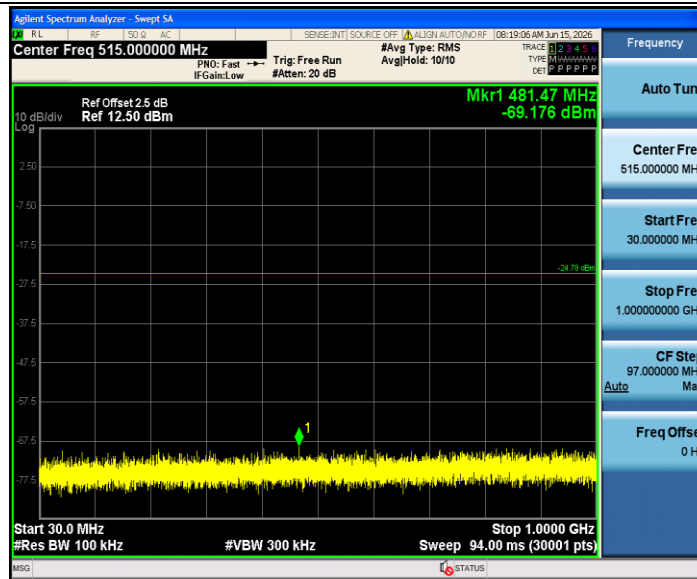
DH5_Ant1_2441_1000~26500



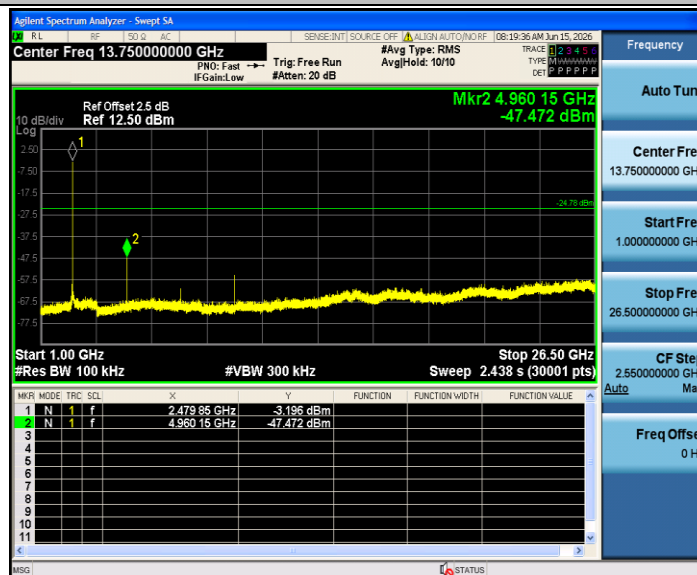
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

