

FCC Appendix RF Test Data for BT

FCC ID : 2BUMN-DY286

Company : DAZONE LLC

EUT : SPEAKER

Model Number : DY286

Report No. : CTA26091501801

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	0.963	2401.541	2402.504	---	---
		2441	0.888	2440.550	2441.438	---	---
		2480	0.951	2479.544	2480.495	---	---
2DH5	Ant1	2402	1.326	2401.343	2402.669	---	---
		2441	1.287	2440.376	2441.663	---	---
		2480	1.329	2479.343	2480.672	---	---
3DH5	Ant1	2402	1.311	2401.355	2402.666	---	---
		2441	1.323	2440.352	2441.675	---	---
		2480	1.281	2479.364	2480.645	---	---

DH5_Ant1_2402

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.402000000 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

MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401541 GHz	-27.247 dBm			
2	N	1	f	2.402000 GHz	-6.271 dBm			
3	Δ1	1	f (Δ)	963 kHz (Δ)	0.468 dB			

Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.400500000 GHz

Stop Freq
2.403500000 GHz

CF Step
300.000 kHz

Freq Offset
0 Hz

DH5_Ant1_2441

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

MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.440560 GHz	-26.446 dBm			
2	N	1	f	2.441018 GHz	-5.119 dBm			
3	Δ1	1	f (Δ)	888 kHz (Δ)	0.019 dB			

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.439500000 GHz

Stop Freq
2.442500000 GHz

CF Step
300.000 kHz

Freq Offset
0 Hz

DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

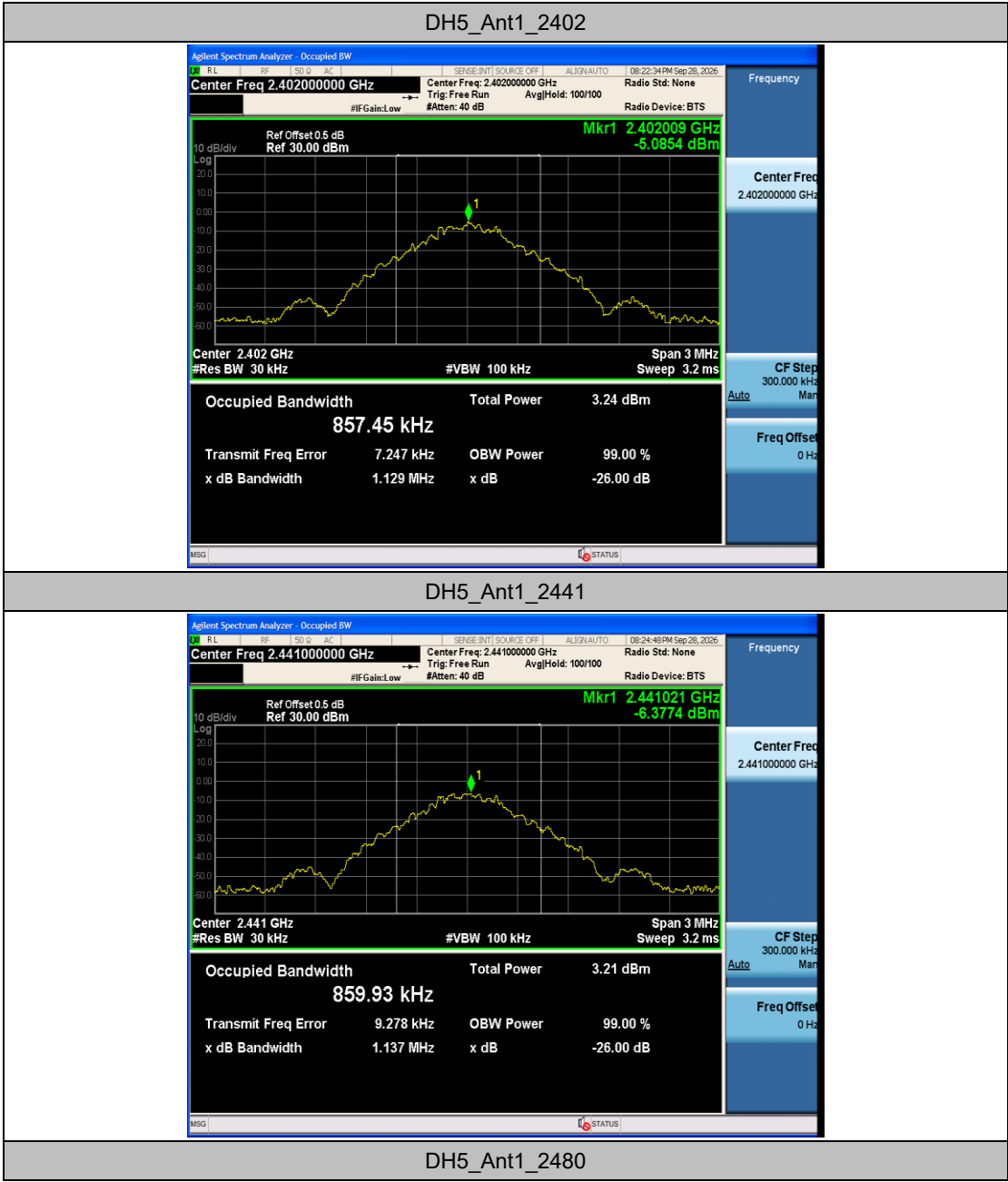


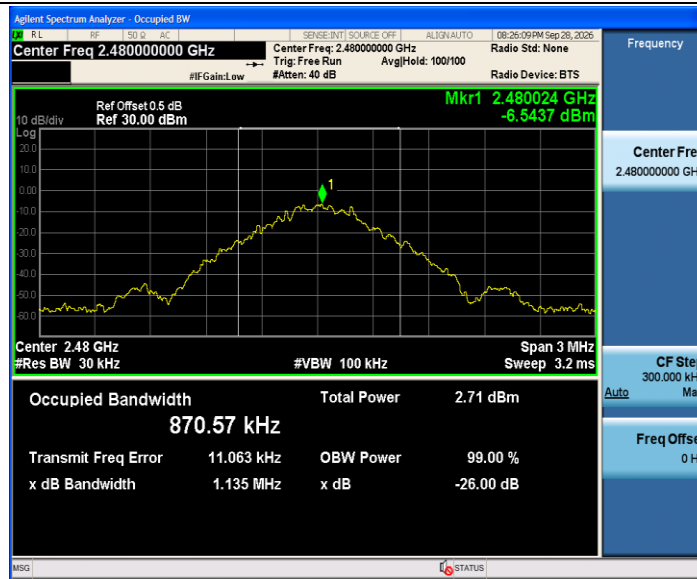
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85745	2401.5785	2402.4360	---	---
		2441	0.85993	2440.5793	2441.4392	---	---
		2480	0.87057	2479.5758	2480.4463	---	---
2DH5	Ant1	2402	1.1889	2401.4147	2402.6036	---	---
		2441	1.1918	2440.4120	2441.6038	---	---
		2480	1.1921	2479.4145	2480.6066	---	---
3DH5	Ant1	2402	1.1891	2401.4172	2402.6063	---	---
		2441	1.1861	2440.4166	2441.6027	---	---
		2480	1.1974	2479.4096	2480.6070	---	---

Test Graphs





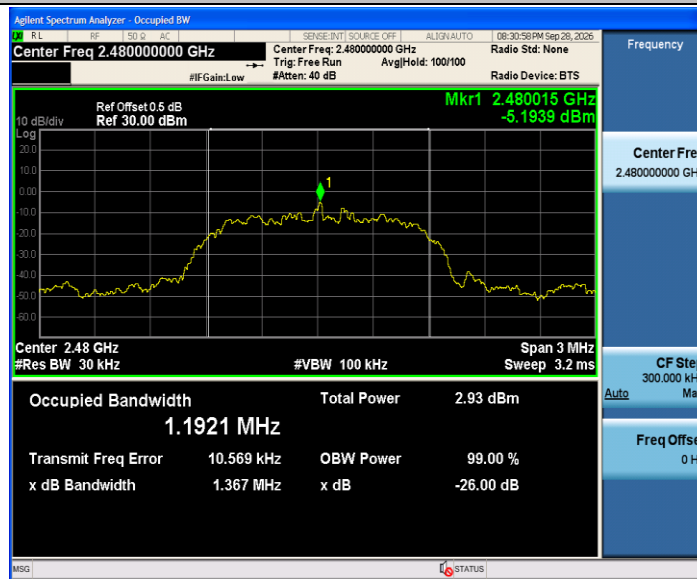
2DH5_Ant1_2402



2DH5_Ant1_2441



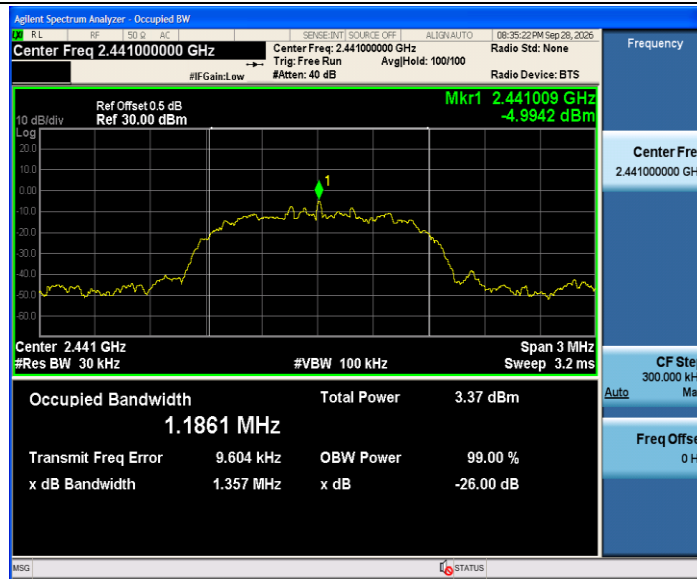
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.33	≤20.97	PASS
		2441	-3.39	≤20.97	PASS
		2480	-3.60	≤20.97	PASS
2DH5	Ant1	2402	-0.73	≤20.97	PASS
		2441	-0.81	≤20.97	PASS
		2480	-1.02	≤20.97	PASS
3DH5	Ant1	2402	-0.32	≤20.97	PASS
		2441	-0.45	≤20.97	PASS
		2480	-0.67	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.984	≥ 0.963	PASS
2DH5	Ant1	Hop	1.004	≥ 0.886	PASS
3DH5	Ant1	Hop	1.16	≥ 0.882	PASS

Test Graphs



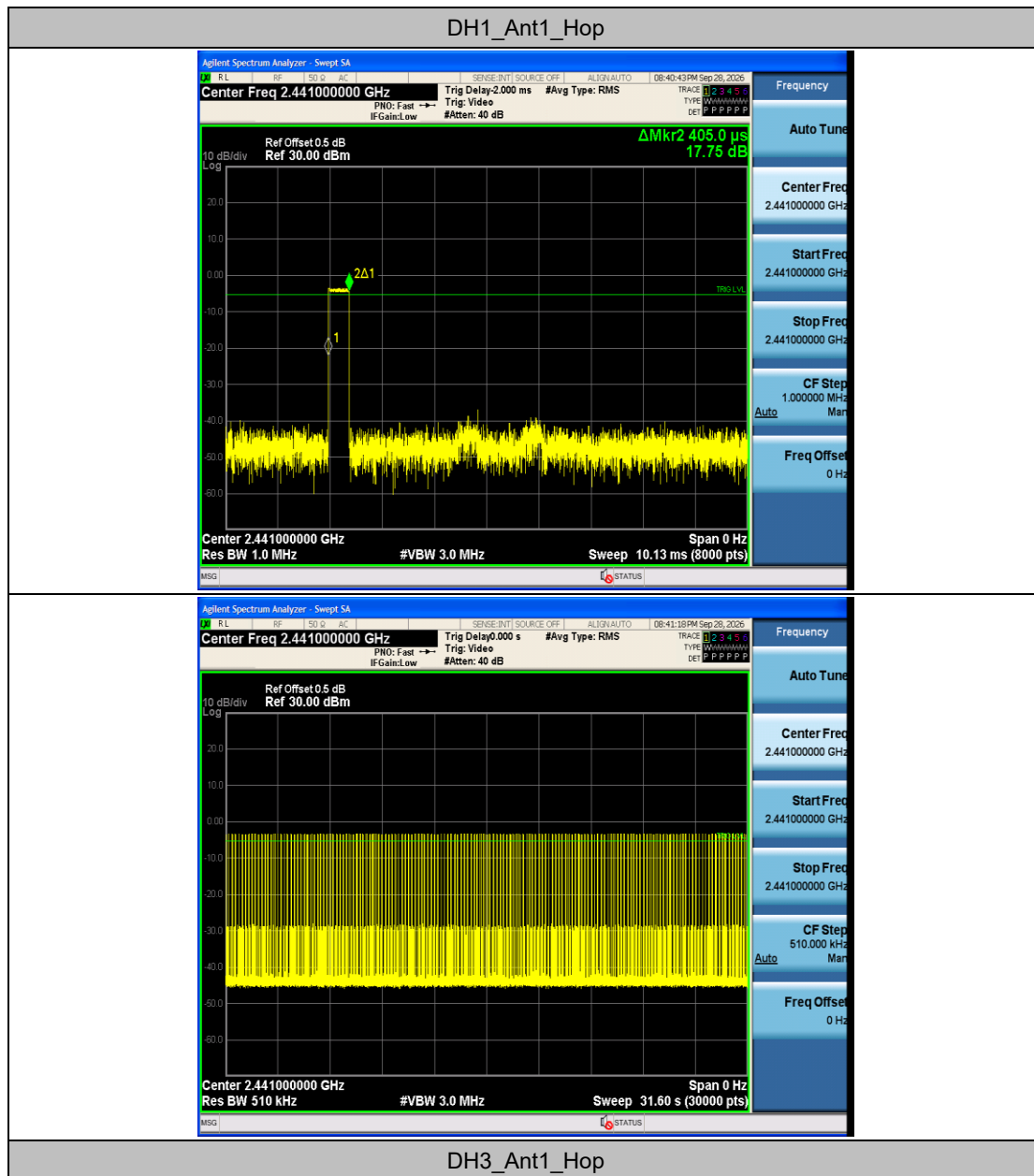


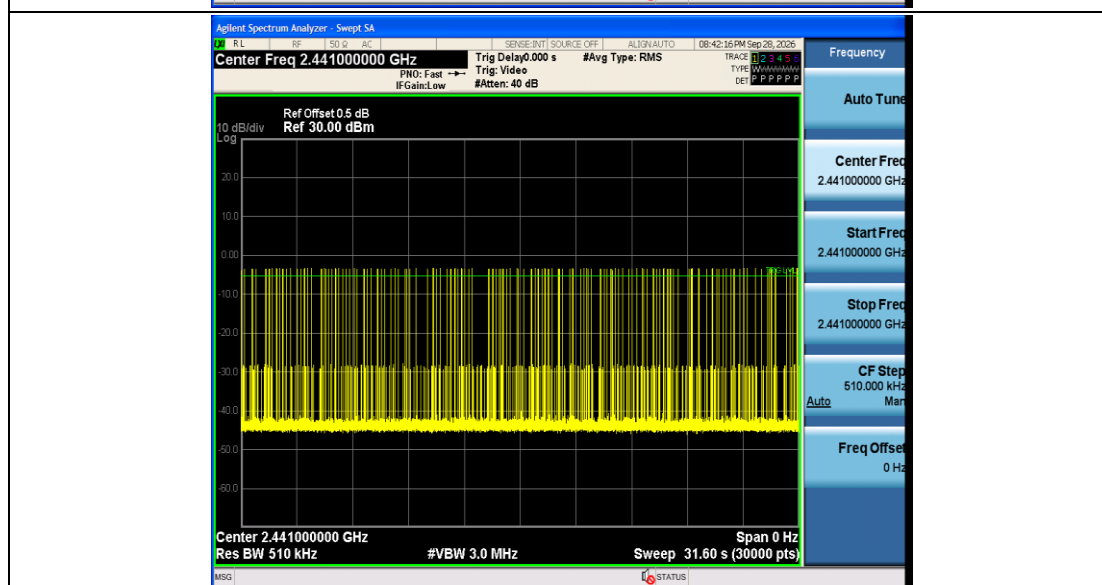
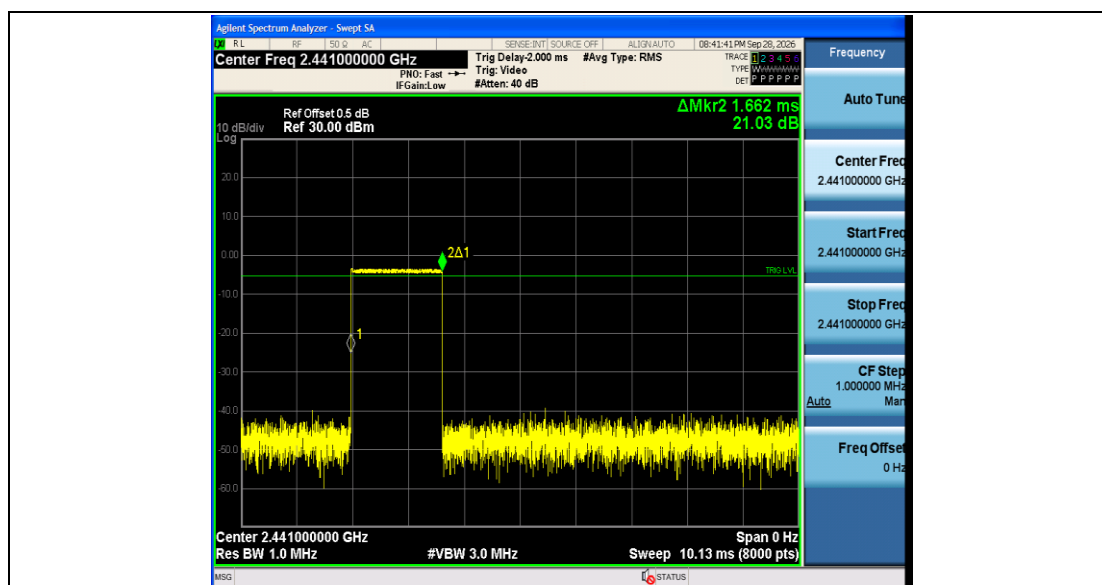
Appendix E: Time of occupancy

Test Result

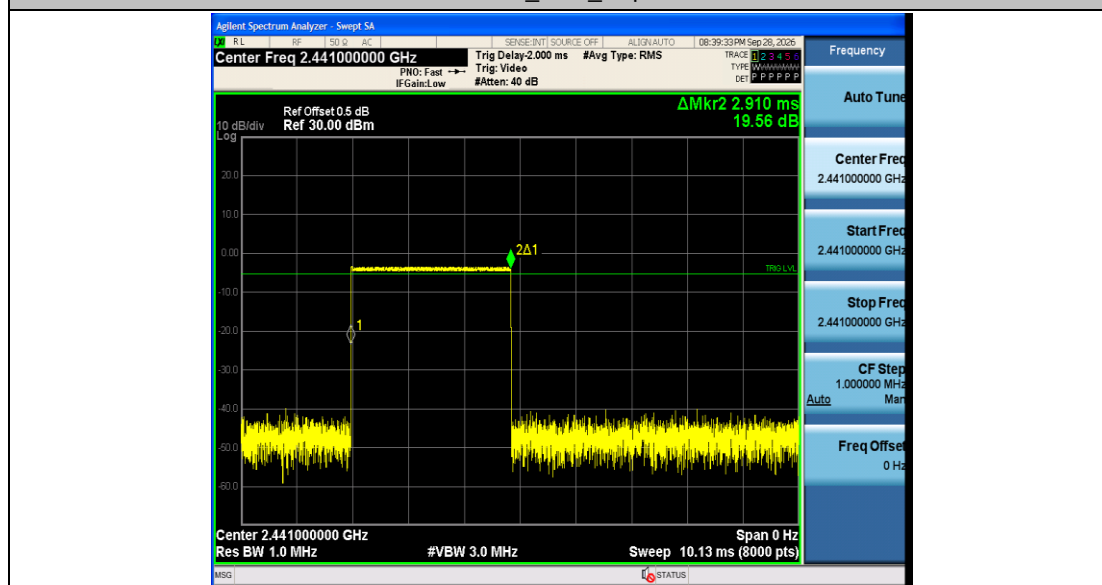
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	318	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	158	0.263	≤0.4	PASS
DH5	Ant1	Hop	2.910	103	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	161	0.269	≤0.4	PASS
2DH5	Ant1	Hop	2.916	116	0.338	≤0.4	PASS
3DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	163	0.272	≤0.4	PASS
3DH5	Ant1	Hop	2.917	110	0.321	≤0.4	PASS

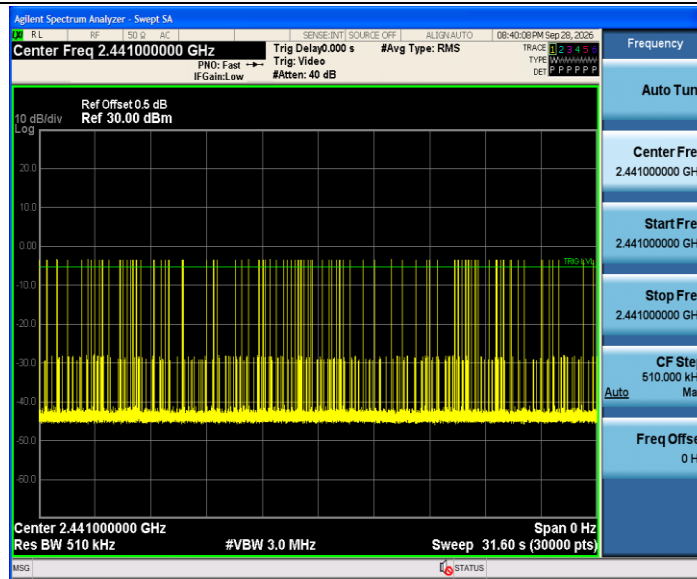
Test Graphs



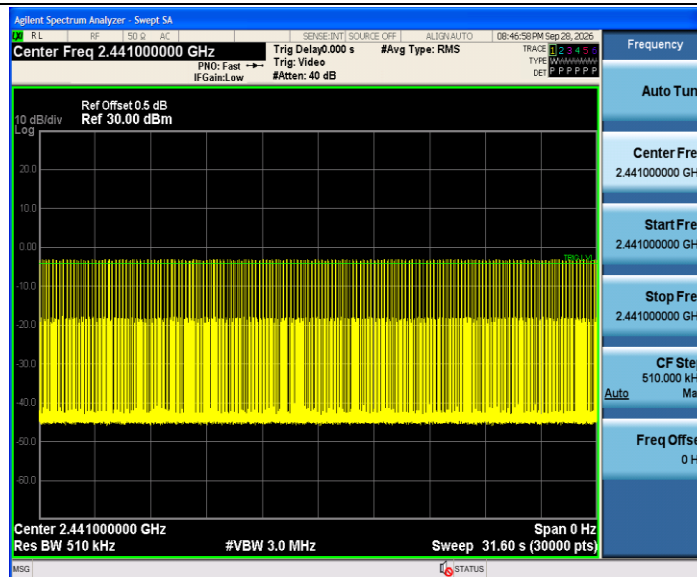
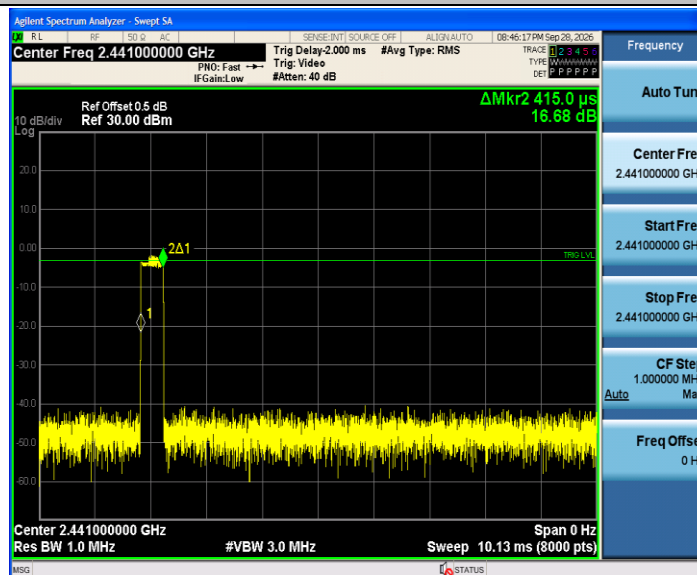


DH5_Ant1_Hop

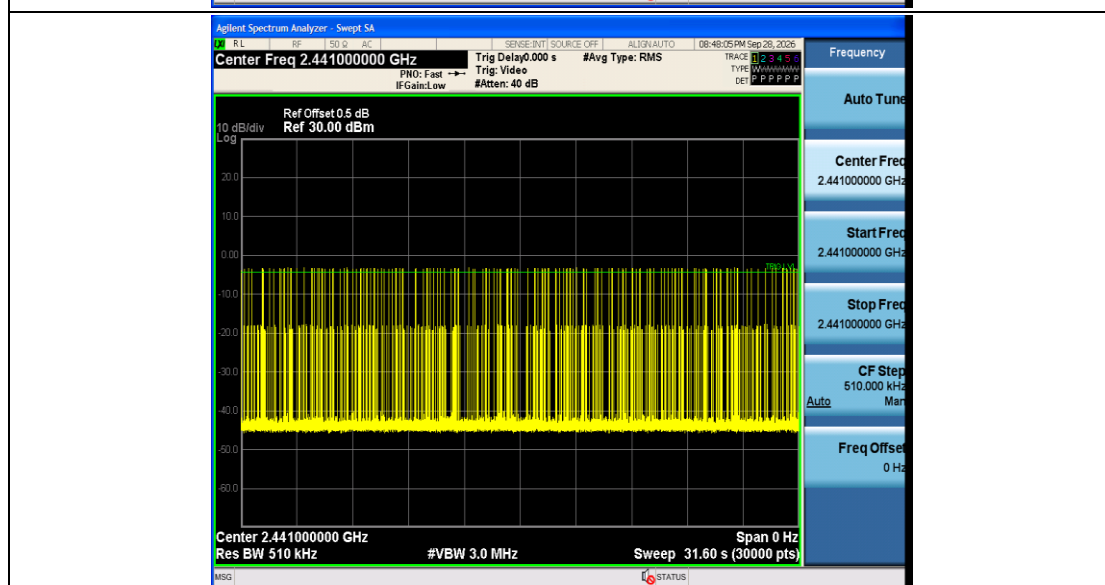
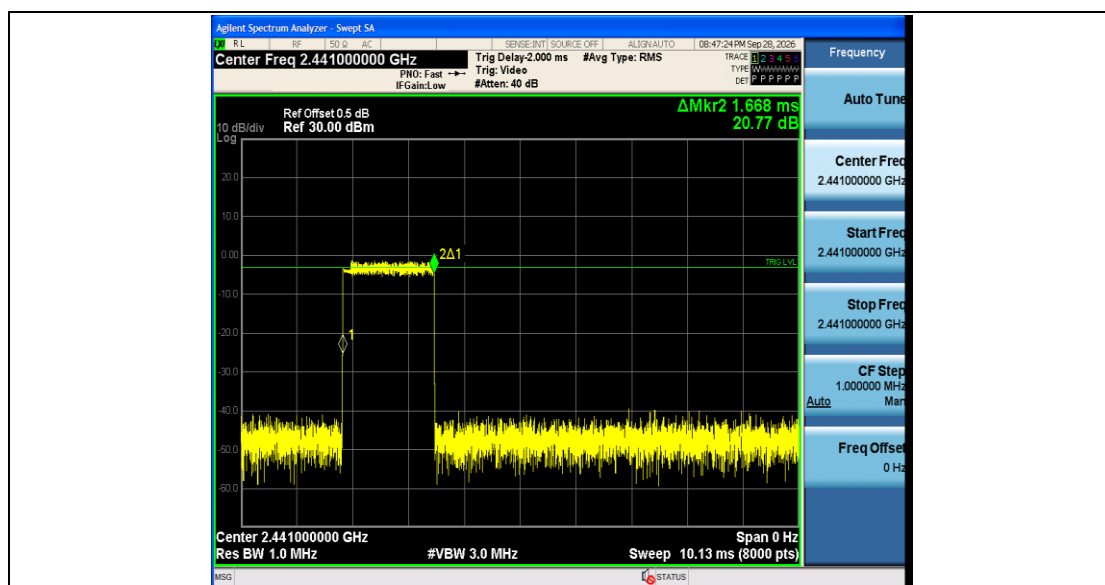




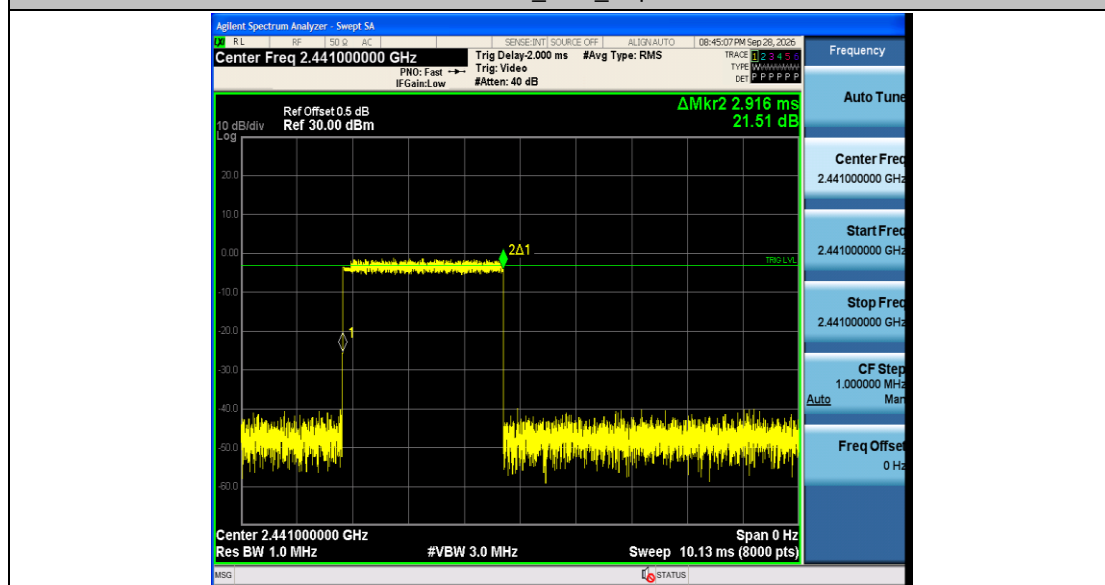
2DH1_Ant1_Hop

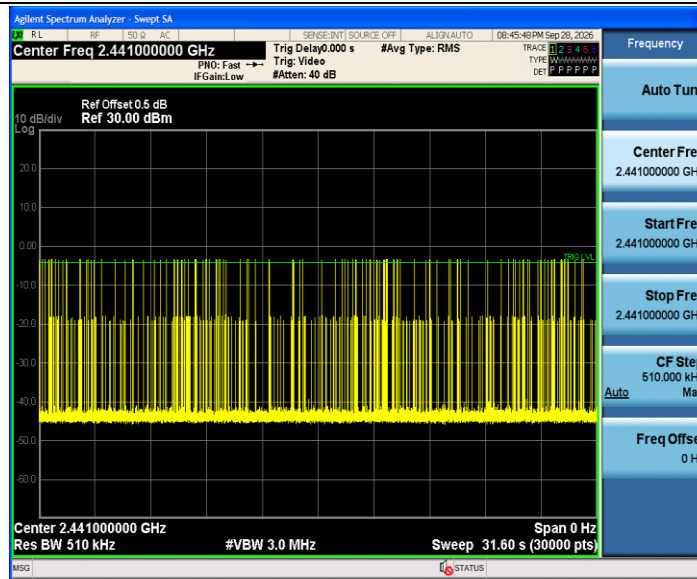


2DH3_Ant1_Hop

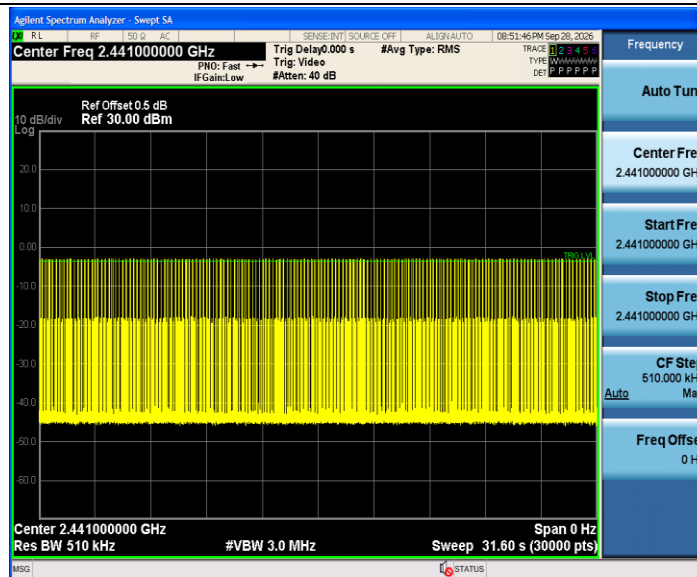
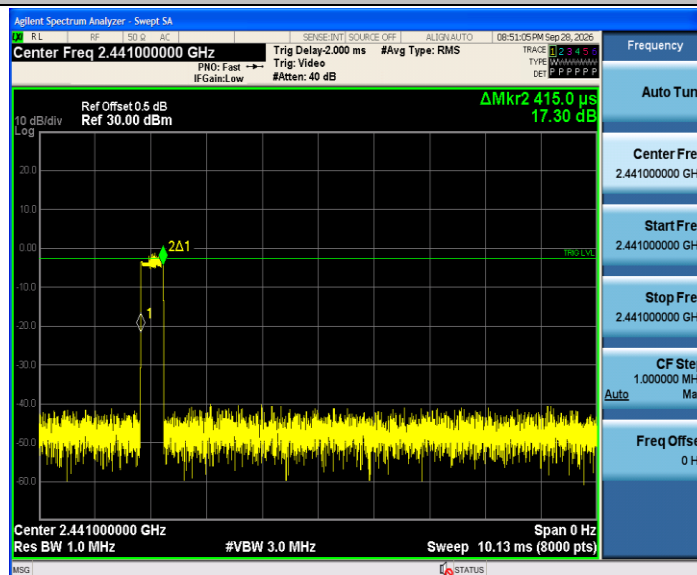


2DH5_Ant1_Hop

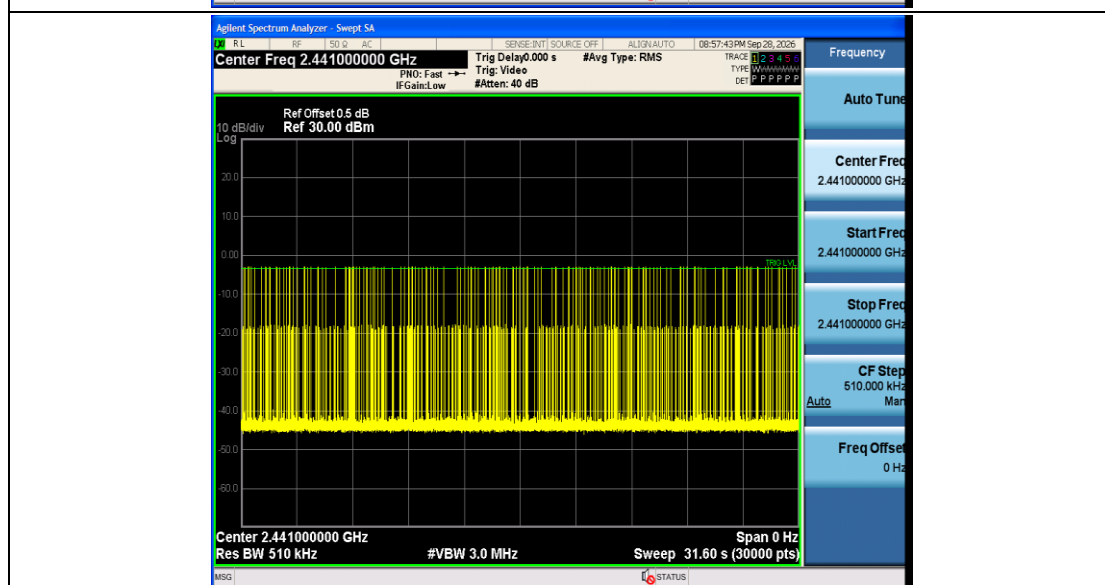
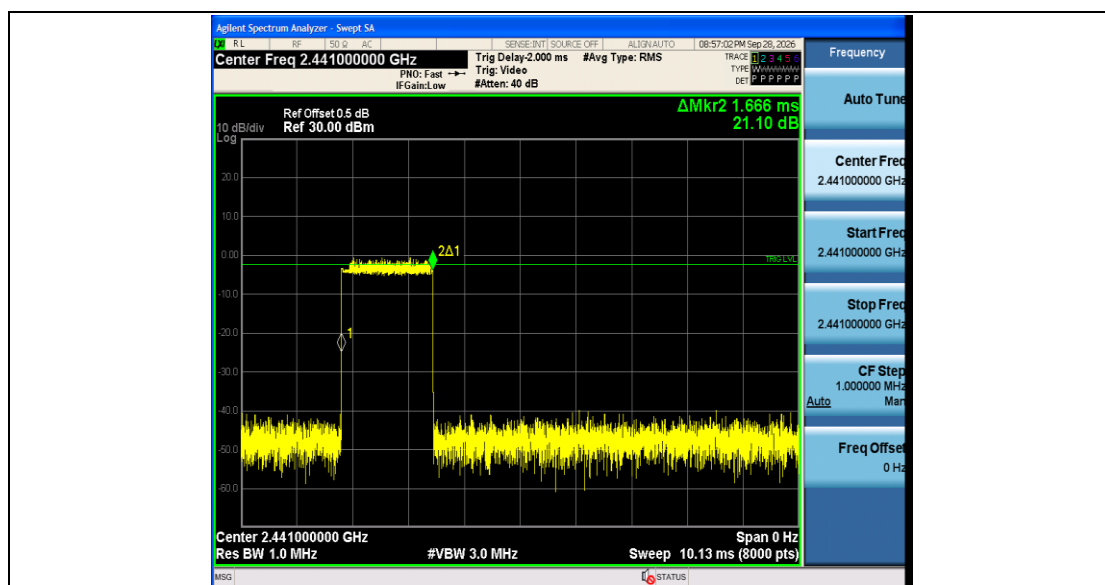




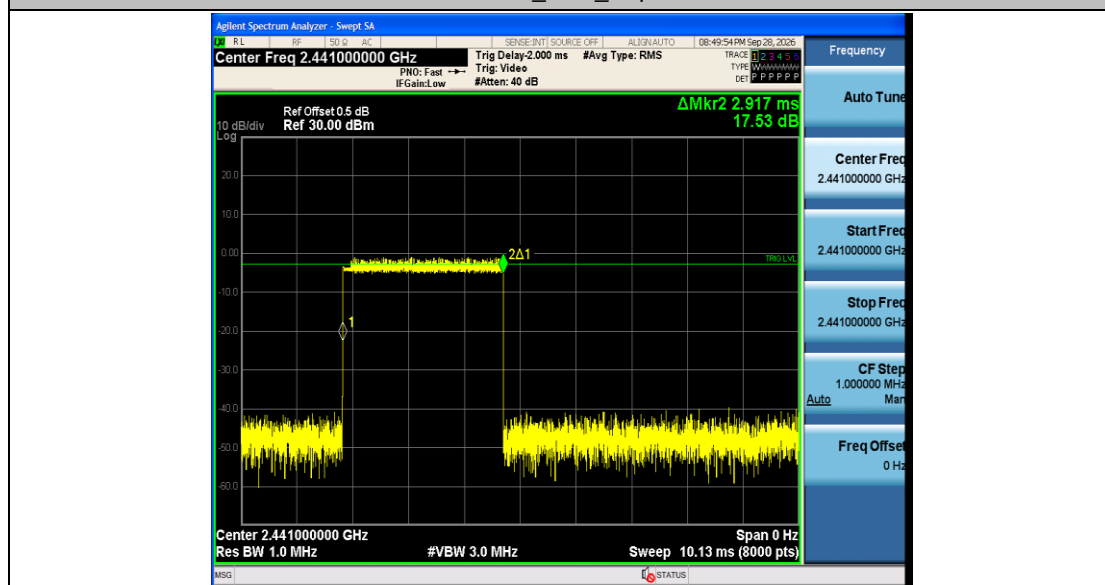
3DH1_Ant1_Hop

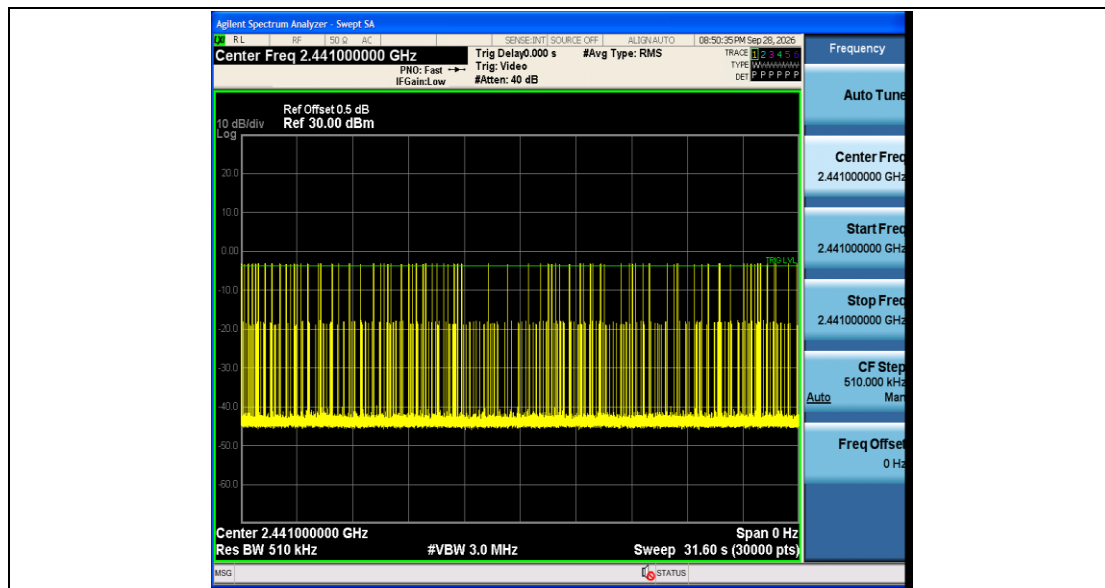


3DH3_Ant1_Hop



3DH5_Ant1_Hop



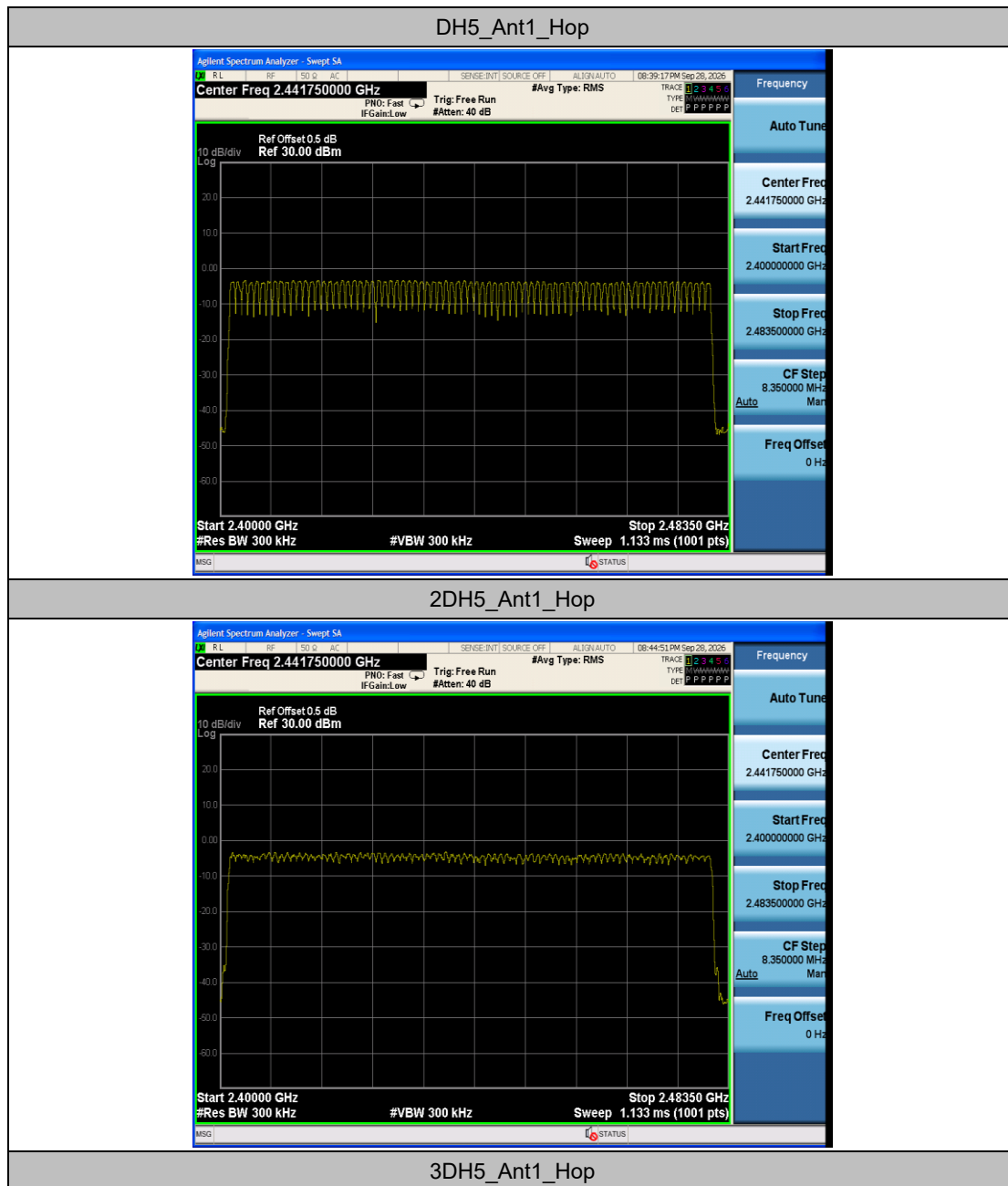


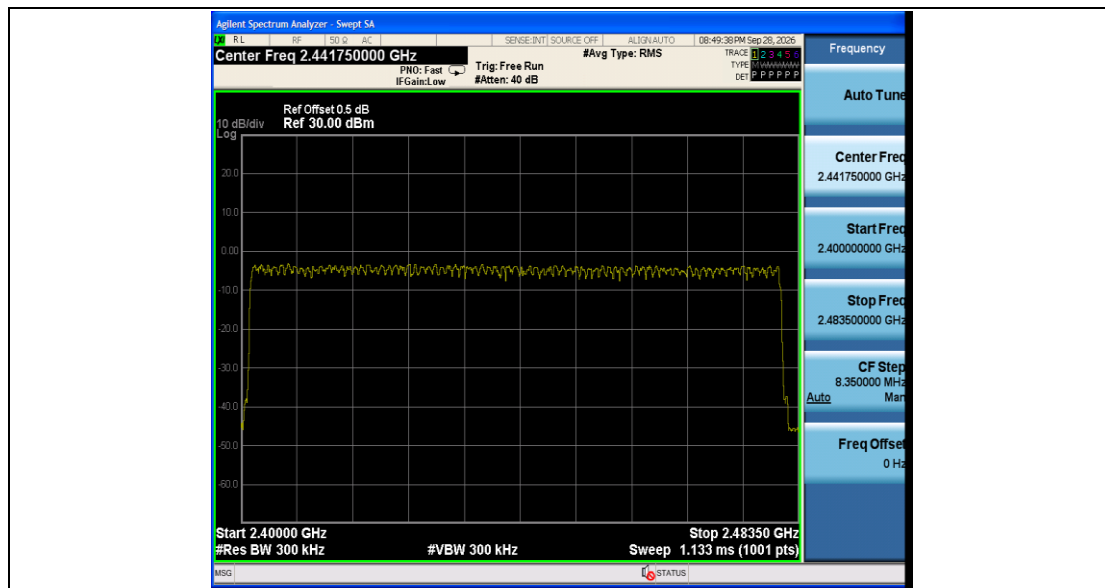
Appendix F: Number of hopping channels

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



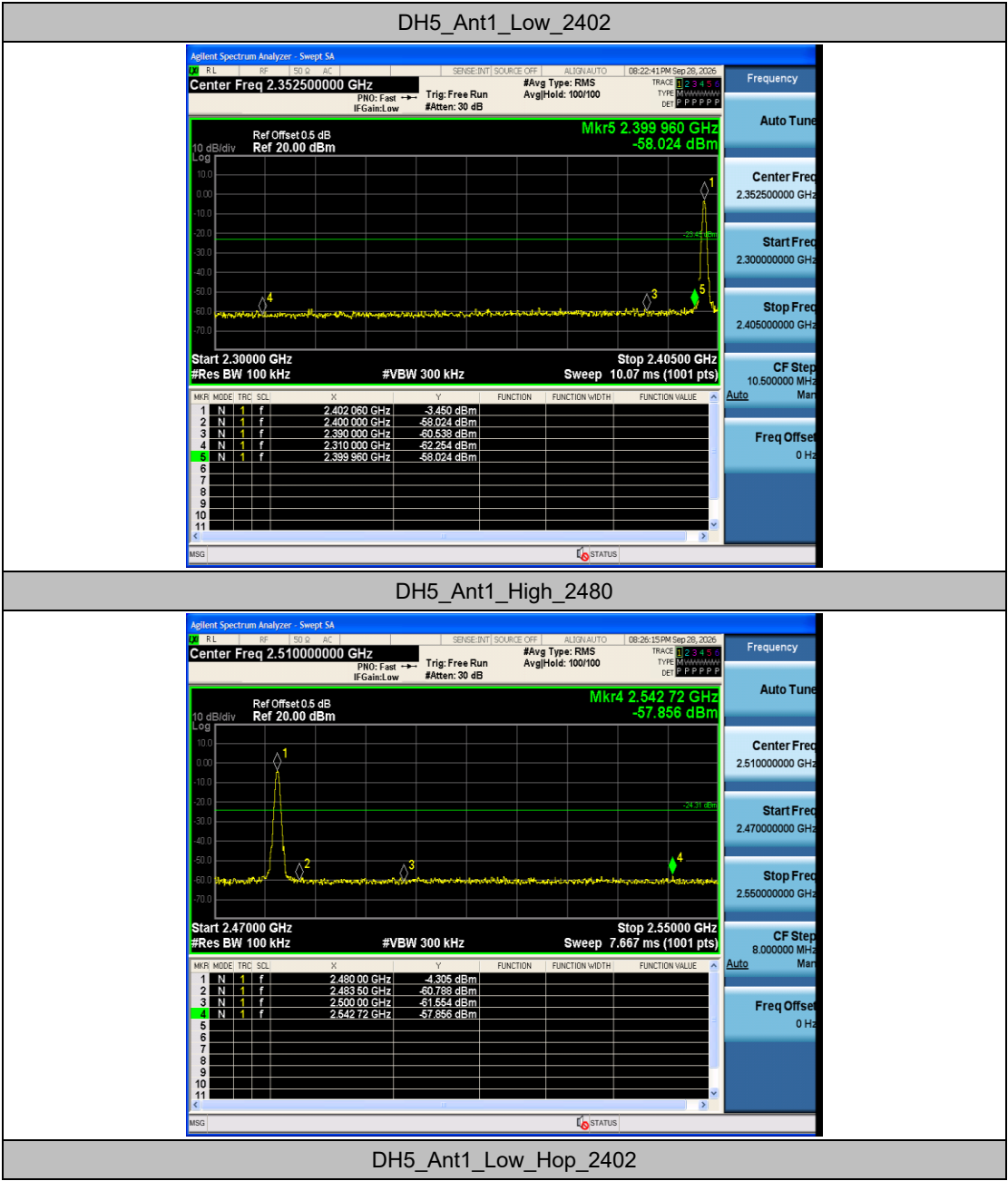


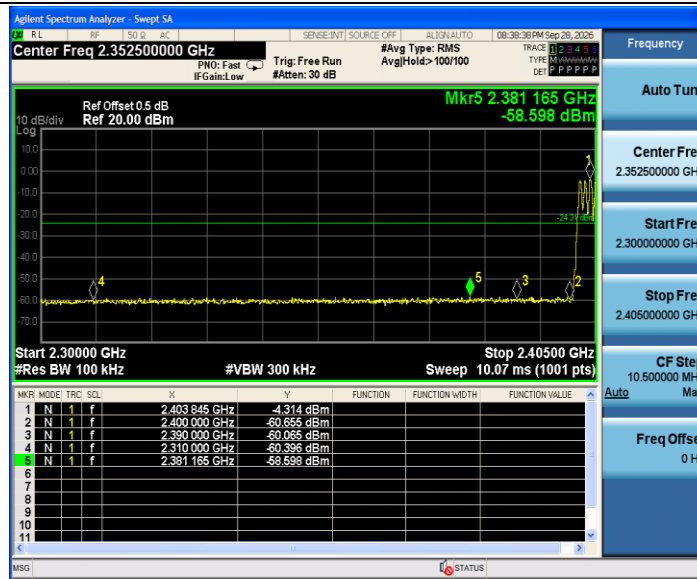
Appendix G: Band edge measurements

Test Result

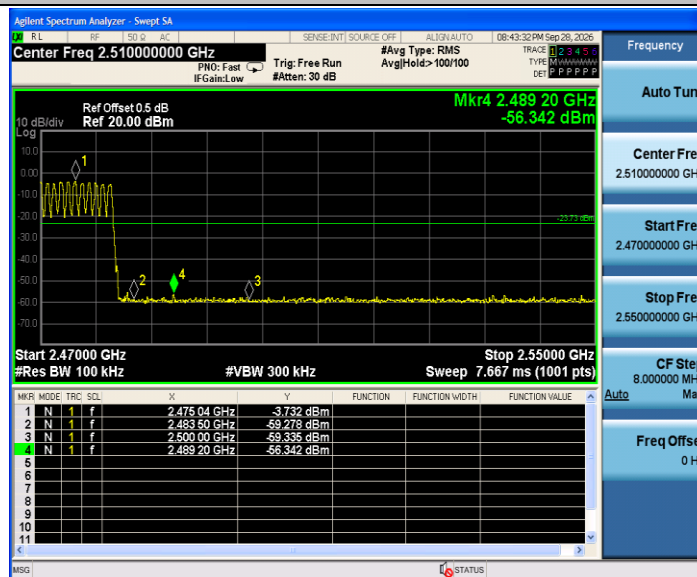
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.45	-58.02	≤-23.45	PASS
		High	2480	-4.31	-57.86	≤-24.31	PASS
		Low	Hop_2402	-4.31	-58.6	≤-24.31	PASS
		High	Hop_2480	-3.73	-56.34	≤-23.73	PASS
2DH5	Ant1	Low	2402	-4.74	-56.16	≤-24.74	PASS
		High	2480	-4.81	-58.02	≤-24.81	PASS
		Low	Hop_2402	-3.49	-58.05	≤-23.49	PASS
		High	Hop_2480	-4.90	-57.03	≤-24.9	PASS
3DH5	Ant1	Low	2402	-4.05	-56.58	≤-24.05	PASS
		High	2480	-3.67	-57.74	≤-23.67	PASS
		Low	Hop_2402	-4.87	-57.82	≤-24.87	PASS
		High	Hop_2480	-4.20	-57.22	≤-24.2	PASS

Test Graphs

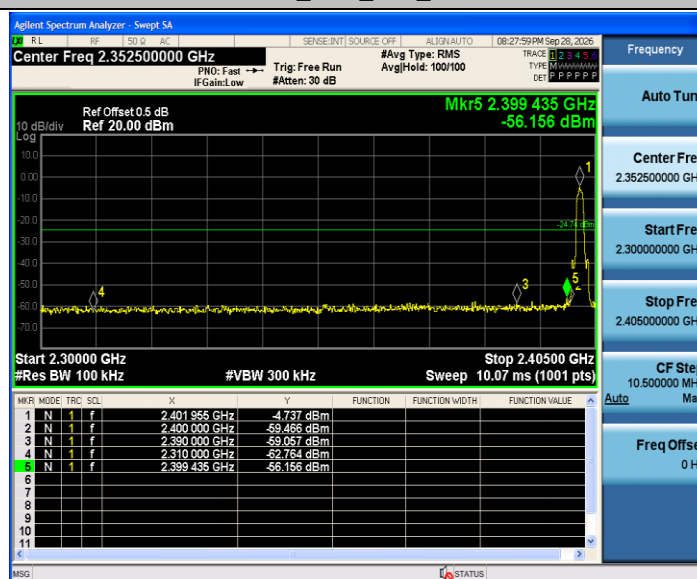




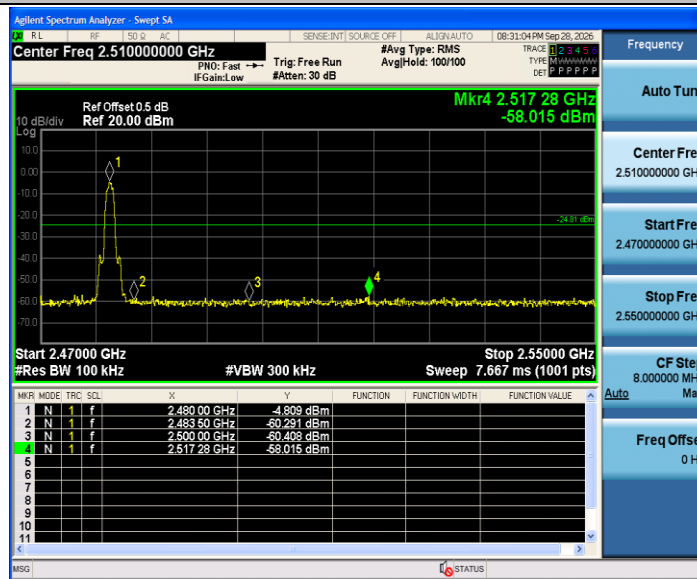
DH5_Ant1_High_Hop_2480



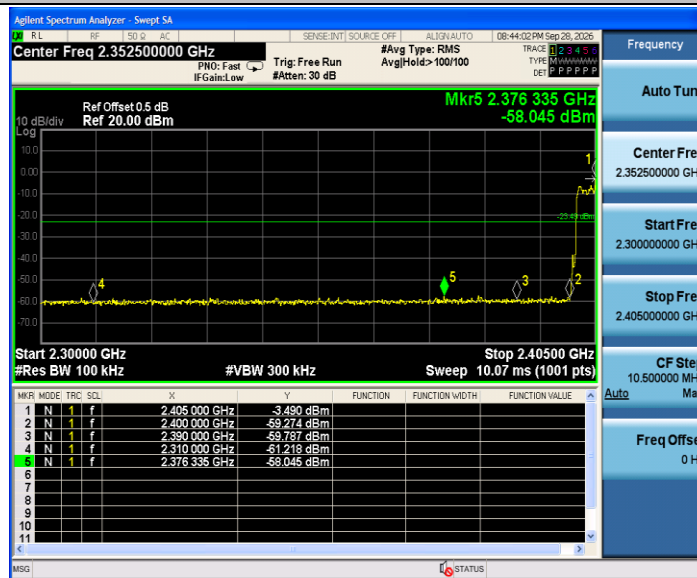
2DH5_Ant1_Low_2402



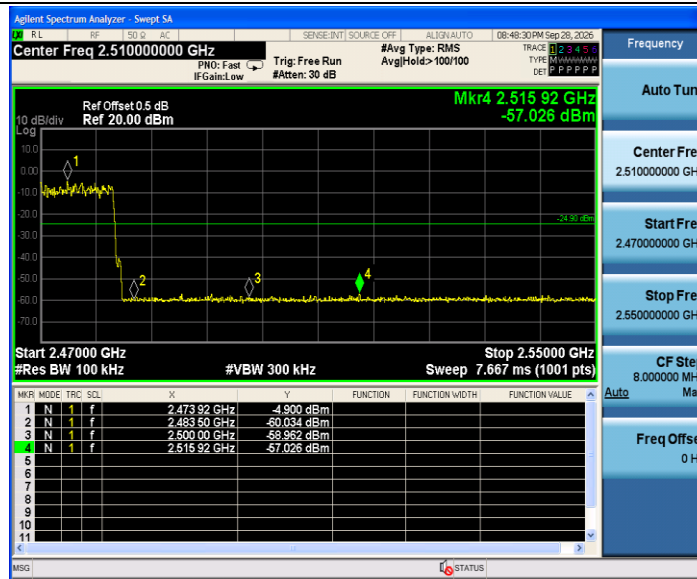
2DH5_Ant1_High_2480



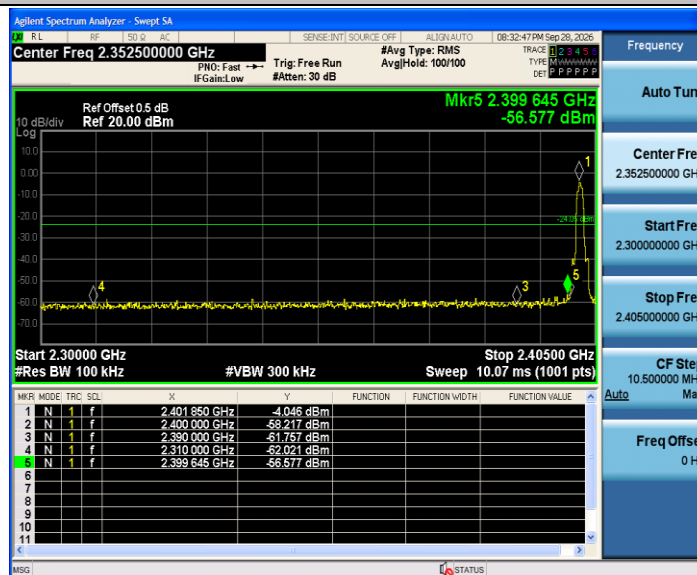
2DH5_Ant1_Low_Hop_2402



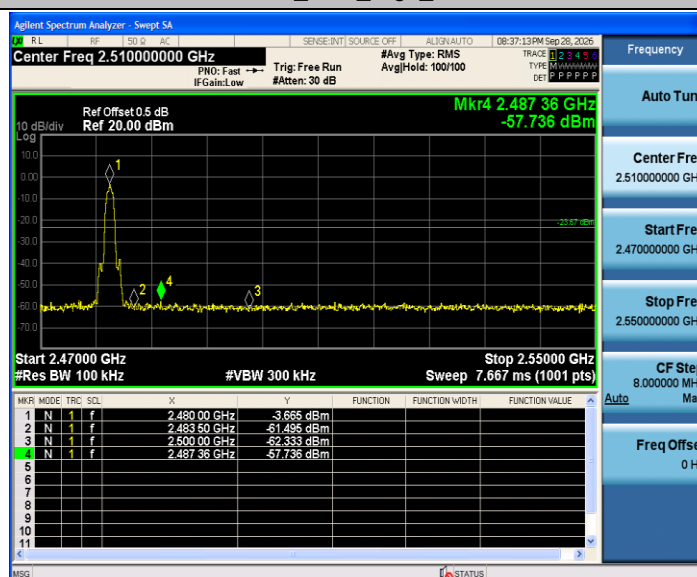
2DH5_Ant1_High_Hop_2480



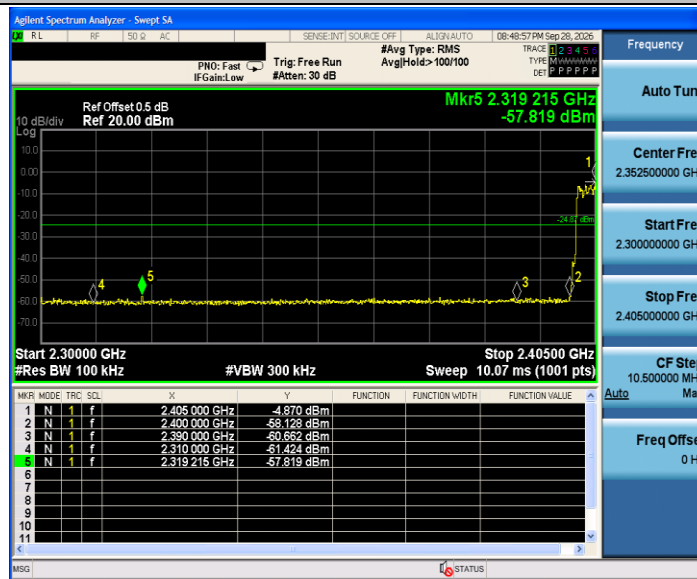
3DH5_Ant1_Low_2402



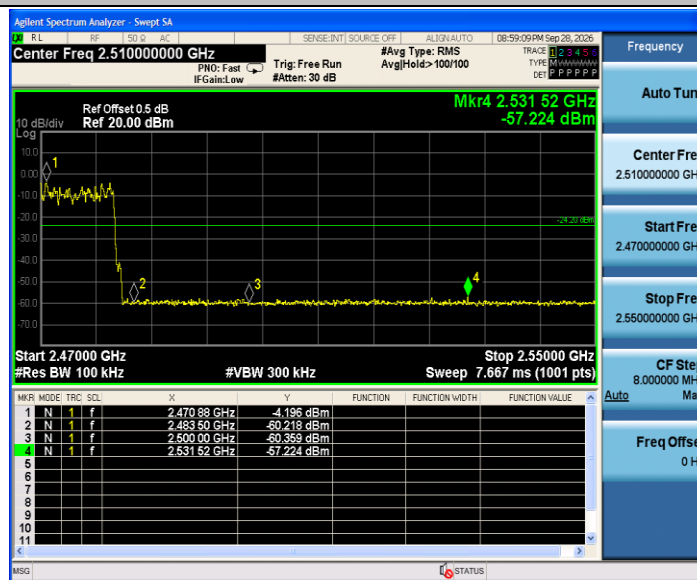
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

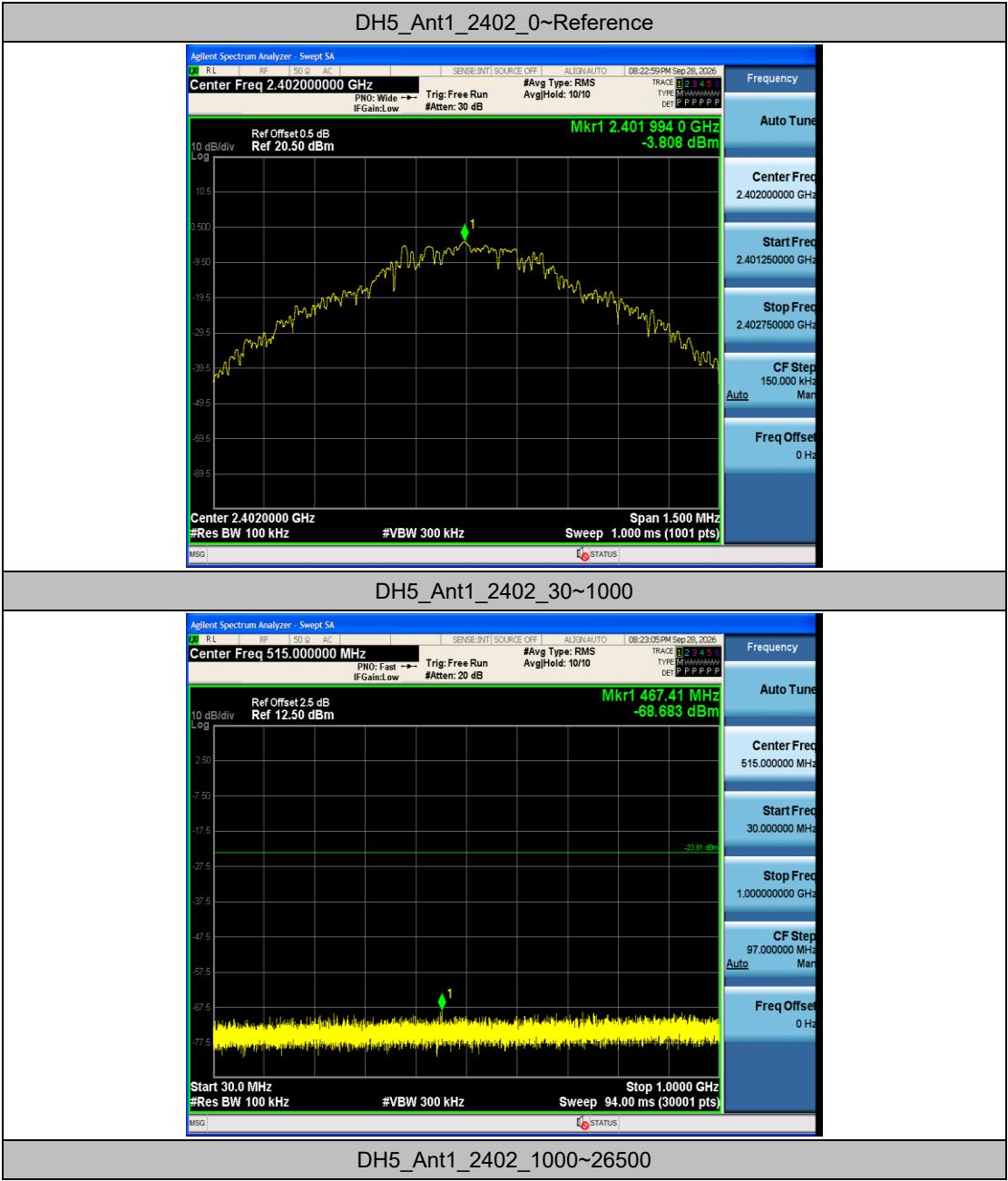


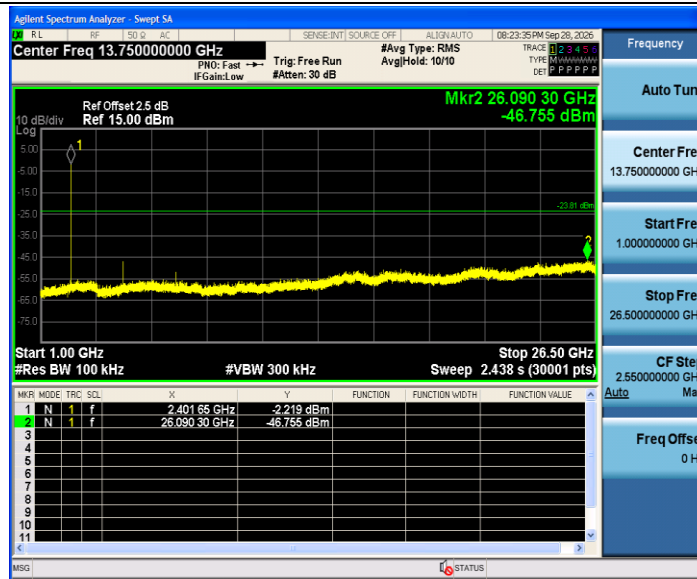
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.81	-3.81	---	PASS
			30~1000	-3.81	-68.68	≤-23.81	PASS
			1000~26500	-3.81	-46.76	≤-23.81	PASS
		2441	Reference	-3.93	-3.93	---	PASS
			30~1000	-3.93	-67.73	≤-23.93	PASS
			1000~26500	-3.93	-46.38	≤-23.93	PASS
		2480	Reference	-3.91	-3.91	---	PASS
			30~1000	-3.91	-68.9	≤-23.91	PASS
			1000~26500	-3.91	-45.92	≤-23.91	PASS
2DH5	Ant1	2402	Reference	-4.28	-4.28	---	PASS
			30~1000	-4.28	-34.64	≤-24.28	PASS
			1000~26500	-4.28	-45.95	≤-24.28	PASS
		2441	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-68.09	≤-25.91	PASS
			1000~26500	-5.91	-46.2	≤-25.91	PASS
		2480	Reference	-5.69	-5.69	---	PASS
			30~1000	-5.69	-35.02	≤-25.69	PASS
			1000~26500	-5.69	-46.35	≤-25.69	PASS
3DH5	Ant1	2402	Reference	-5.07	-5.07	---	PASS
			30~1000	-5.07	-67.93	≤-25.07	PASS
			1000~26500	-5.07	-46.25	≤-25.07	PASS
		2441	Reference	-4.59	-4.59	---	PASS
			30~1000	-4.59	-67.95	≤-24.59	PASS
			1000~26500	-4.59	-46.58	≤-24.59	PASS
		2480	Reference	-6.32	-6.32	---	PASS
			30~1000	-6.32	-68.64	≤-26.32	PASS
			1000~26500	-6.32	-45.74	≤-26.32	PASS

Test Graphs

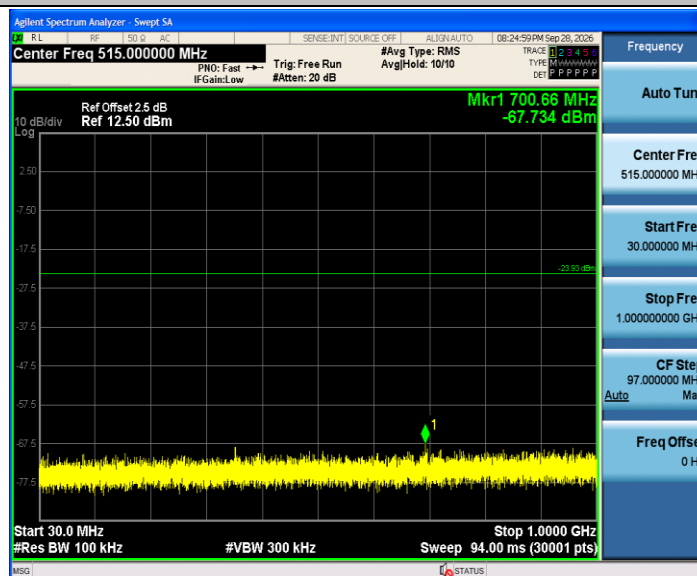




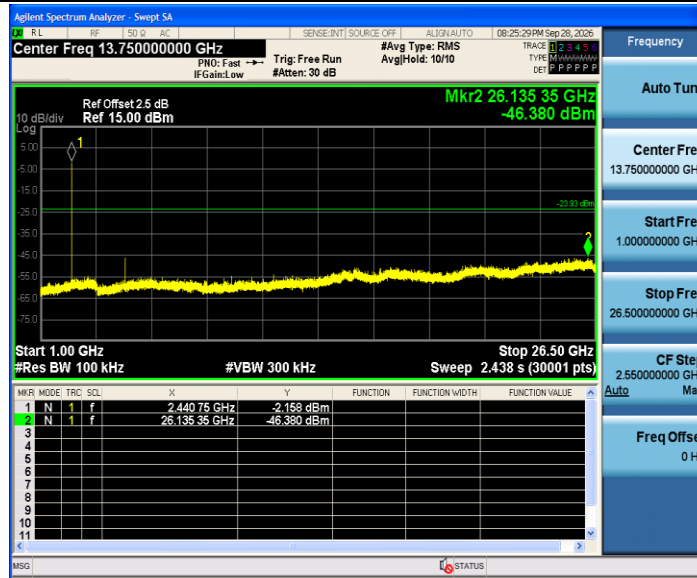
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



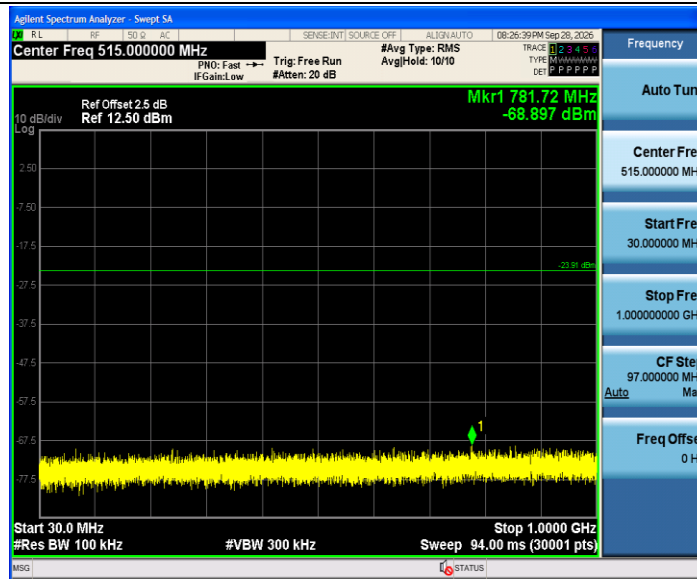
DH5_Ant1_2441_1000~26500



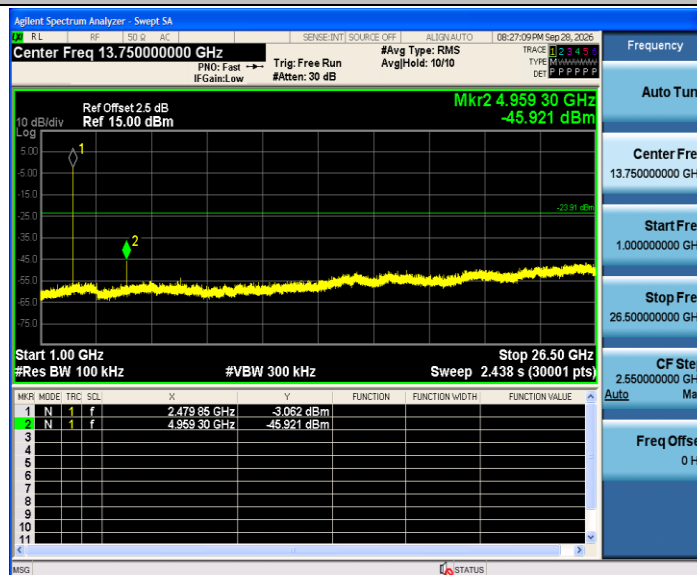
DH5_Ant1_2480_0~Reference



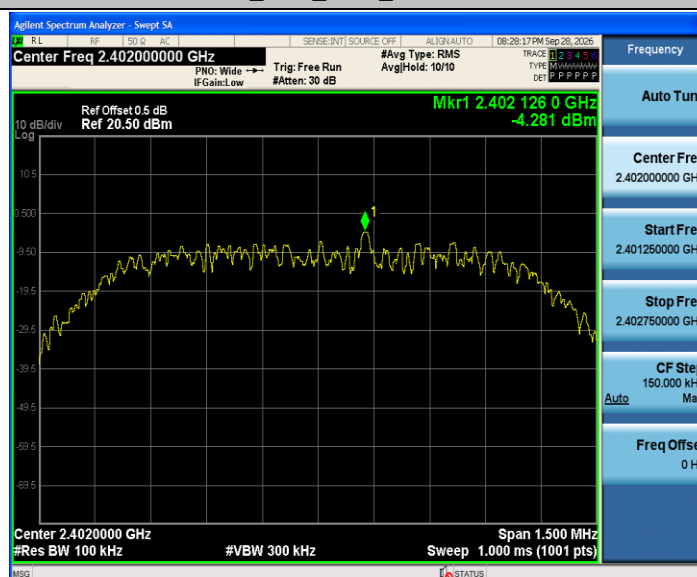
DH5_Ant1_2480_30~1000



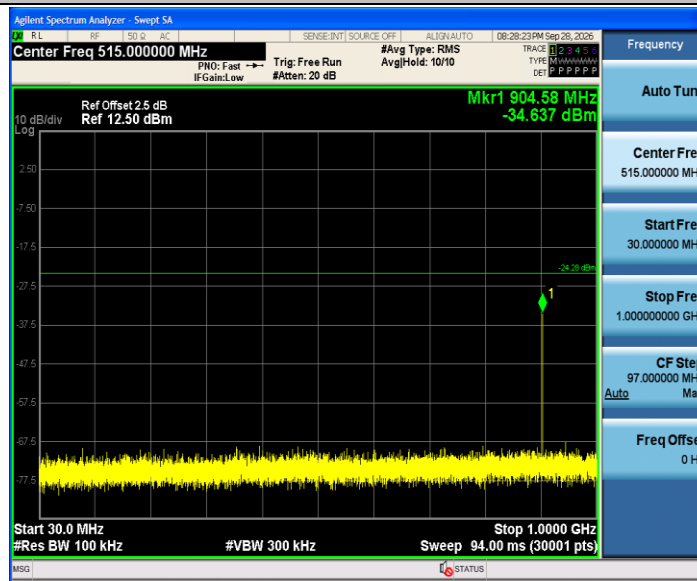
DH5_Ant1_2480_1000~26500



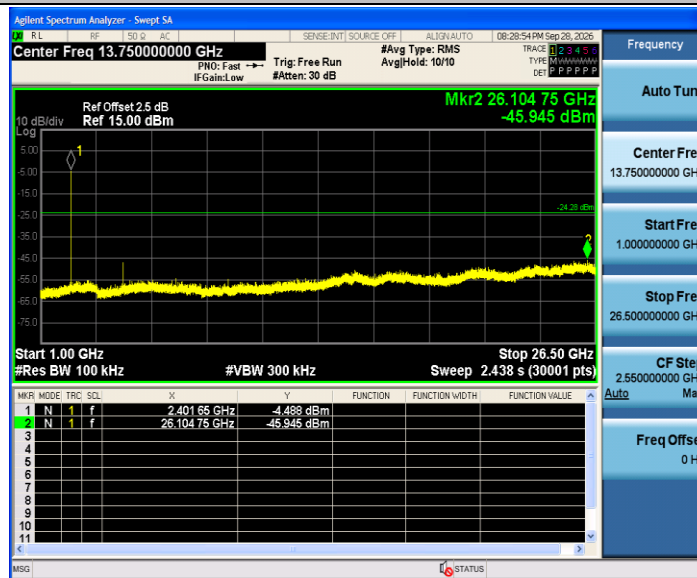
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference