

FCC Appendix RF Test Data for BT

FCC ID : 2BQZB-G1618-05

Company : Shenzhen GPD Technology Co., Ltd.

EUT : Handheld PC gaming console

Model Number : G1618-05

Report No. : CTA25091900501

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	2401.523	2402.486	---	---
		2441	0.960	2440.523	2441.483	---	---
		2480	0.948	2479.529	2480.477	---	---
2DH5	Ant1	2402	1.497	2401.232	2402.729	---	---
		2441	1.434	2440.268	2441.702	---	---
		2480	1.536	2479.220	2480.756	---	---
3DH5	Ant1	2402	1.491	2401.256	2402.747	---	---
		2441	1.467	2440.268	2441.735	---	---
		2480	1.416	2479.289	2480.705	---	---

DH5_Ant1_2402

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Ref Offset 0.6 dB
Ref 10.60 dBm

Trig: Free Run
#Atten: 20 dB

#Avg Type: RMS
Avg/Hold: 100/100

Span 3.000 MHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep (#Swp) 3.200 ms (1001 pts)

ΔMkr3 963 kHz
-0.392 dB

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401523 GHz	-21.489 dBm			
2	N	1	f	2.402003 GHz	-1.946 dBm			
3	Δ	1	f	963 kHz (Δ)	-0.392 dB			

DH5_Ant1_2441

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 0.6 dB
Ref 10.60 dBm

Trig: Free Run
#Atten: 20 dB

#Avg Type: RMS
Avg/Hold: 100/100

Span 3.000 MHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep (#Swp) 3.200 ms (1001 pts)

ΔMkr3 960 kHz
0.477 dB

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.440523 GHz	-22.230 dBm			
2	N	1	f	2.440988 GHz	-2.267 dBm			
3	Δ	1	f	960 kHz (Δ)	0.477 dB			



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

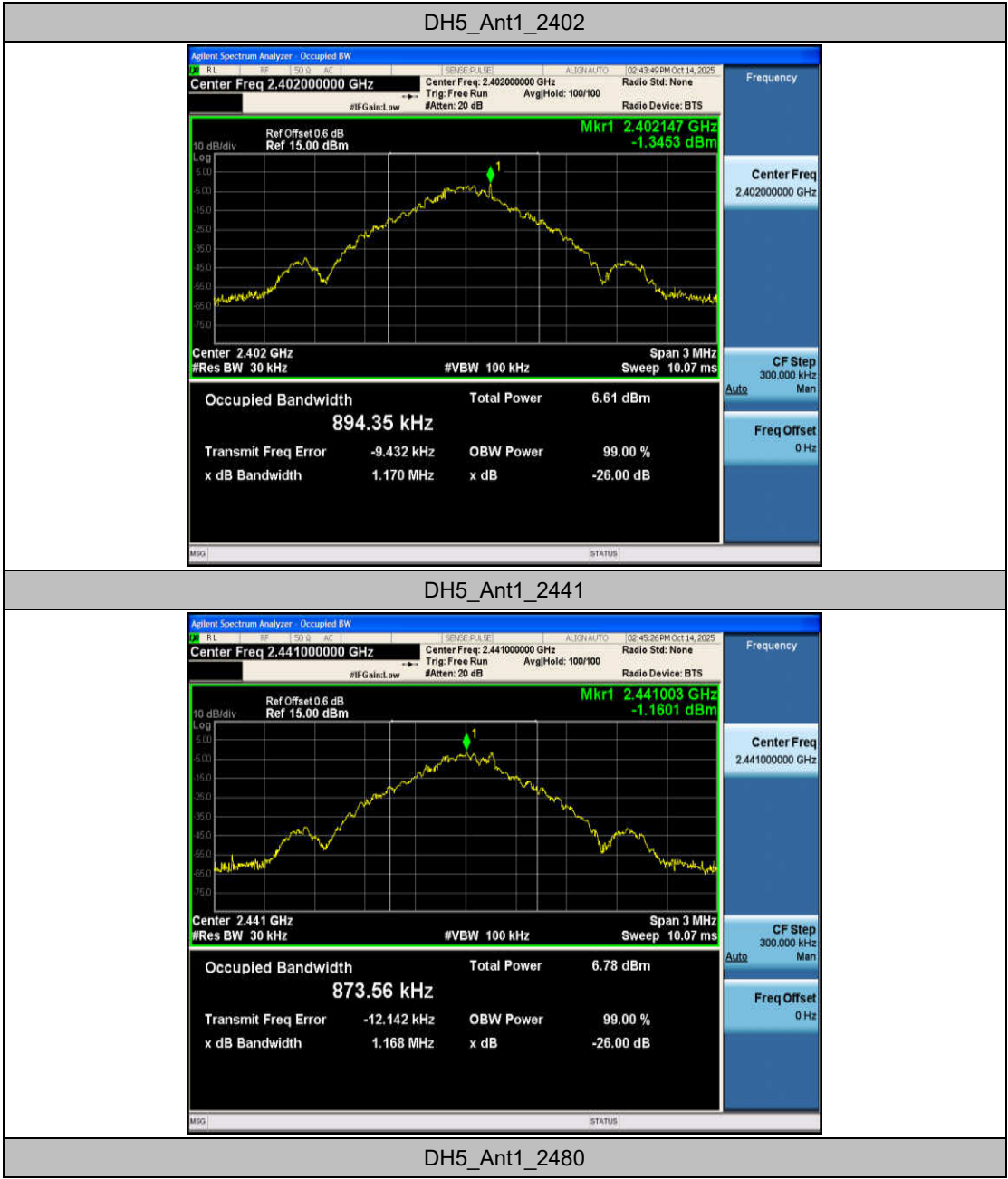


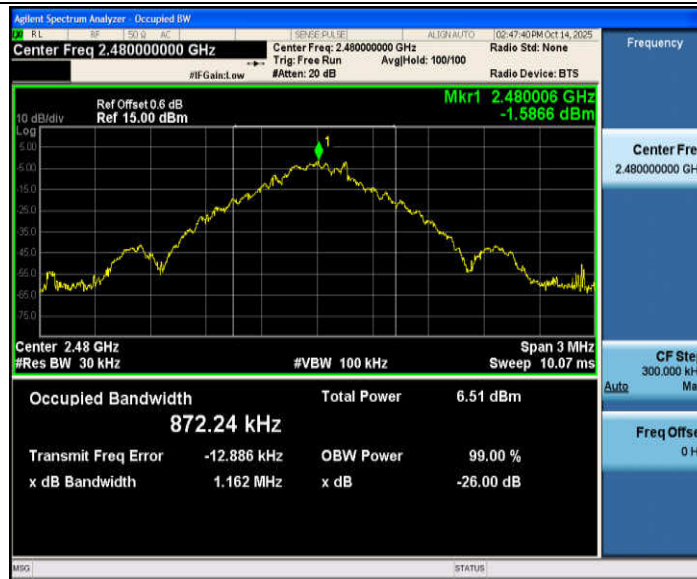
Appendix B: Occupied Channel Bandwidth

Test Result

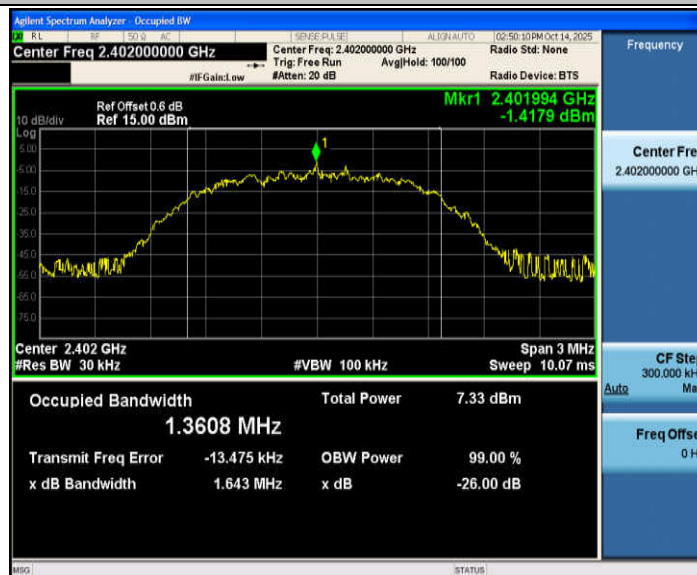
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89435	2401.5434	2402.4377	---	---
		2441	0.87356	2440.5511	2441.4246	---	---
		2480	0.87224	2479.5510	2480.4232	---	---
2DH5	Ant1	2402	1.3608	2401.3061	2402.6669	---	---
		2441	1.3659	2440.3029	2441.6688	---	---
		2480	1.3590	2479.3057	2480.6647	---	---
3DH5	Ant1	2402	1.3609	2401.3073	2402.6682	---	---
		2441	1.3558	2440.3114	2441.6672	---	---
		2480	1.3671	2479.3043	2480.6714	---	---

Test Graphs

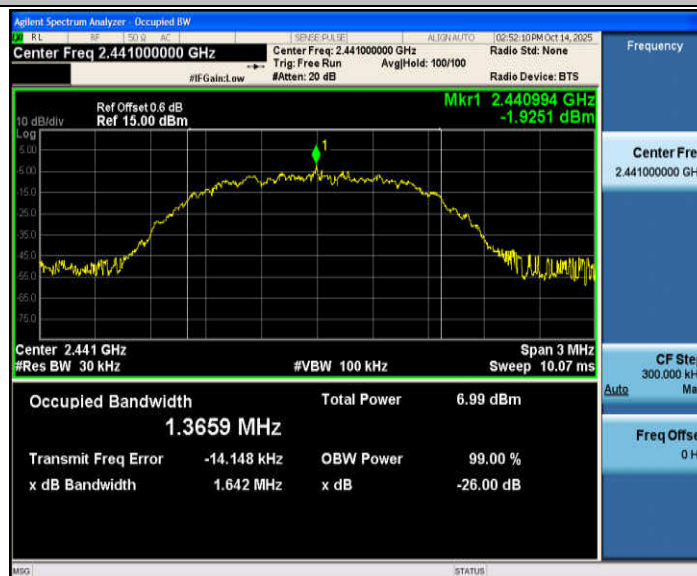




2DH5_Ant1_2402



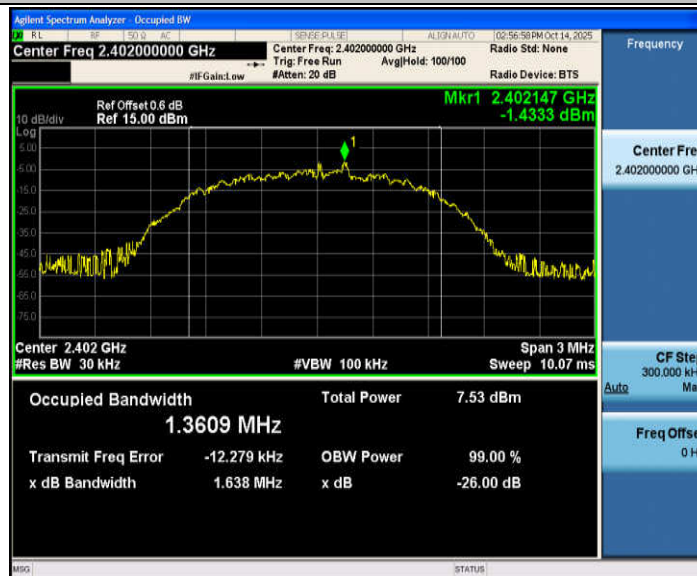
2DH5_Ant1_2441



2DH5_Ant1_2480



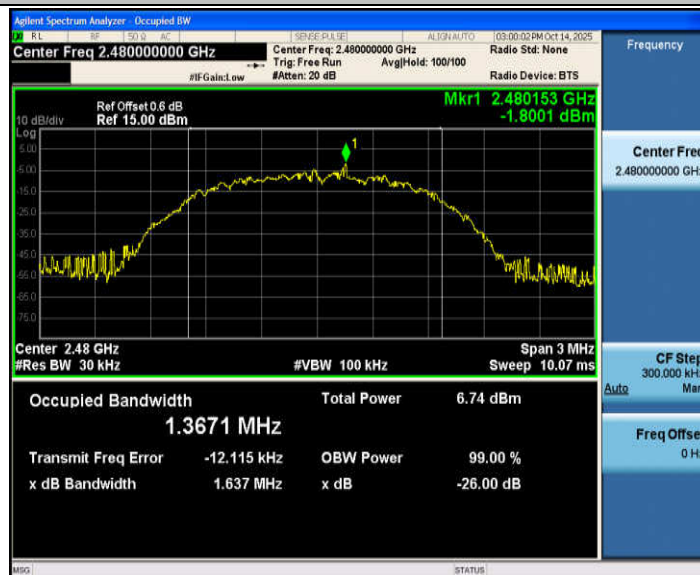
3DH5_Ant1_2402



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	0.65	≤20.97	PASS
		2441	0.50	≤20.97	PASS
		2480	0.26	≤20.97	PASS
2DH5	Ant1	2402	3.13	≤20.97	PASS
		2441	2.92	≤20.97	PASS
		2480	2.67	≤20.97	PASS
3DH5	Ant1	2402	3.37	≤20.97	PASS
		2441	3.18	≤20.97	PASS
		2480	2.90	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.036	≥ 0.963	PASS
2DH5	Ant1	Hop	1.252	≥ 1.024	PASS
3DH5	Ant1	Hop	1.264	≥ 0.994	PASS

Test Graphs



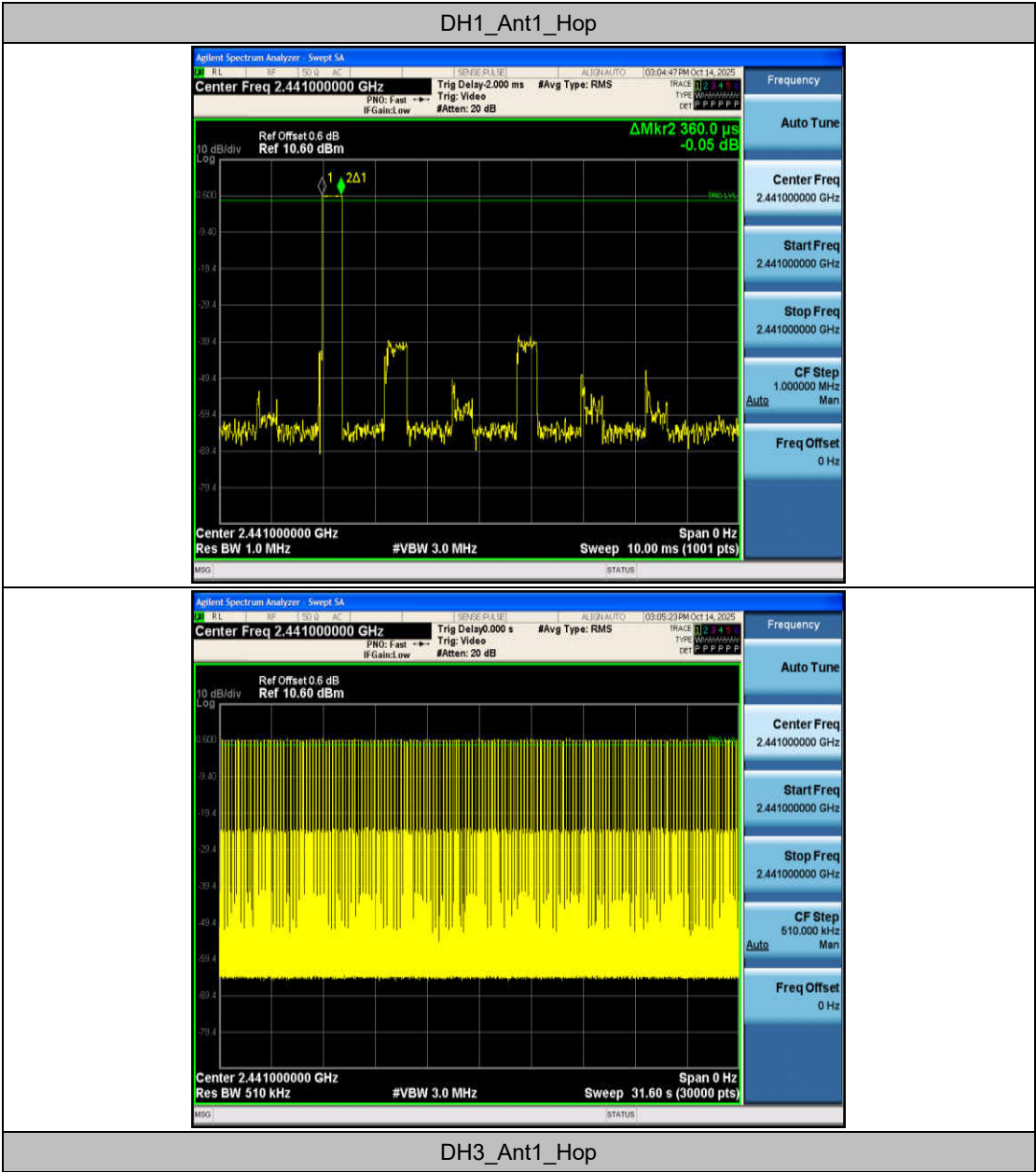


Appendix E: Time of occupancy

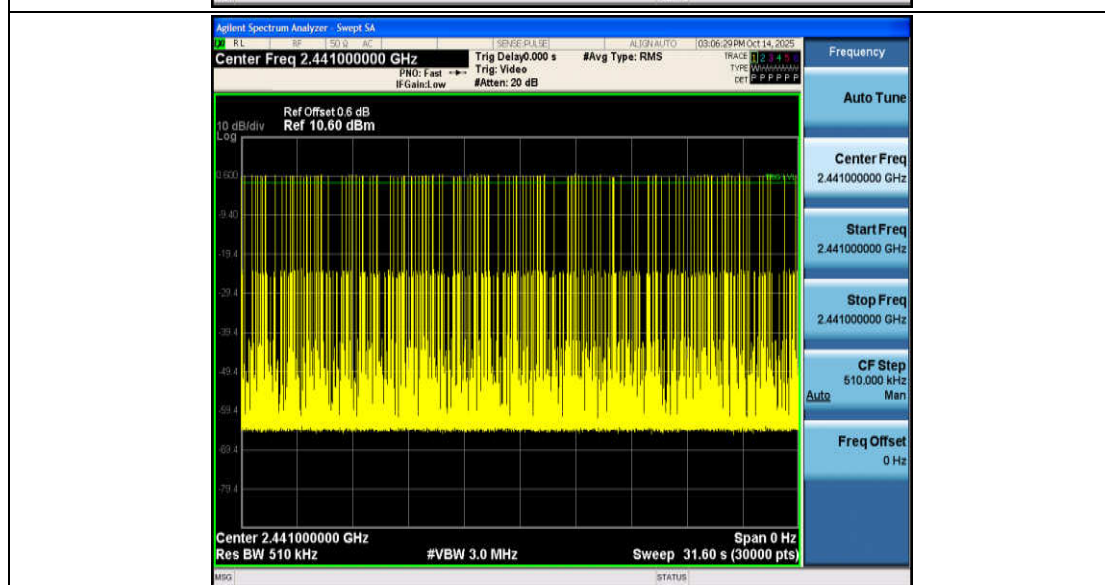
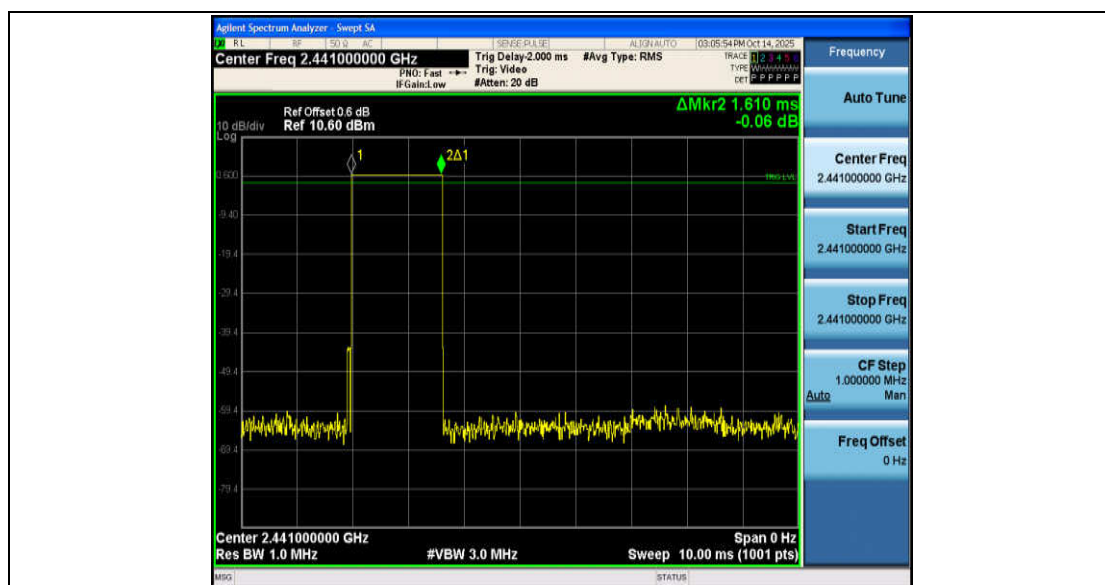
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.360	313	0.113	≤0.4	PASS
DH3	Ant1	Hop	1.610	143	0.23	≤0.4	PASS
DH5	Ant1	Hop	2.870	99	0.284	≤0.4	PASS
2DH1	Ant1	Hop	0.370	311	0.115	≤0.4	PASS
2DH3	Ant1	Hop	1.630	142	0.231	≤0.4	PASS
2DH5	Ant1	Hop	2.870	112	0.321	≤0.4	PASS
3DH1	Ant1	Hop	0.370	311	0.115	≤0.4	PASS
3DH3	Ant1	Hop	1.620	144	0.233	≤0.4	PASS
3DH5	Ant1	Hop	2.870	114	0.327	≤0.4	PASS

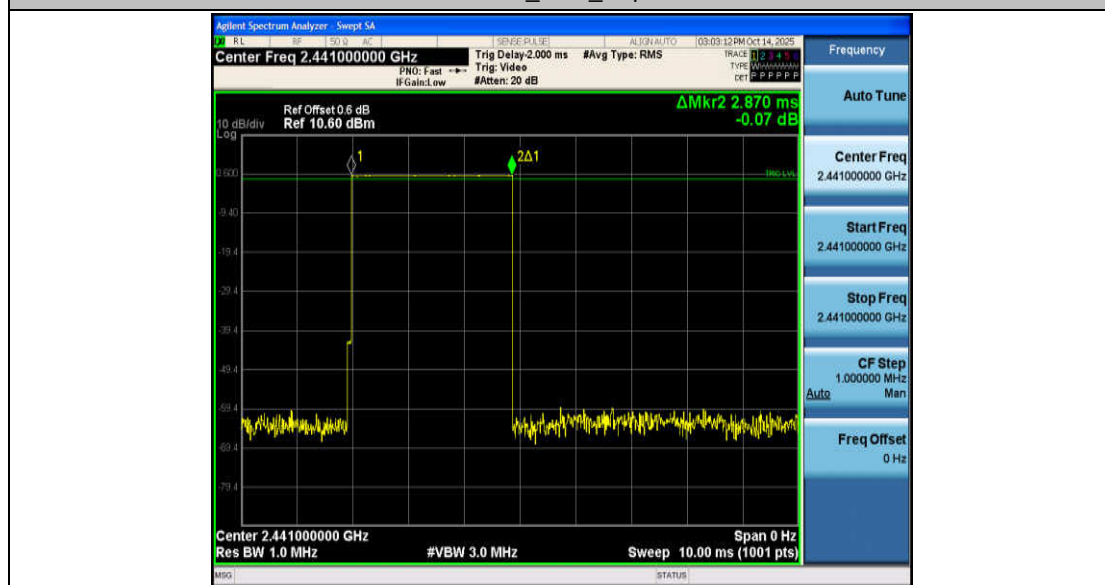
Test Graphs

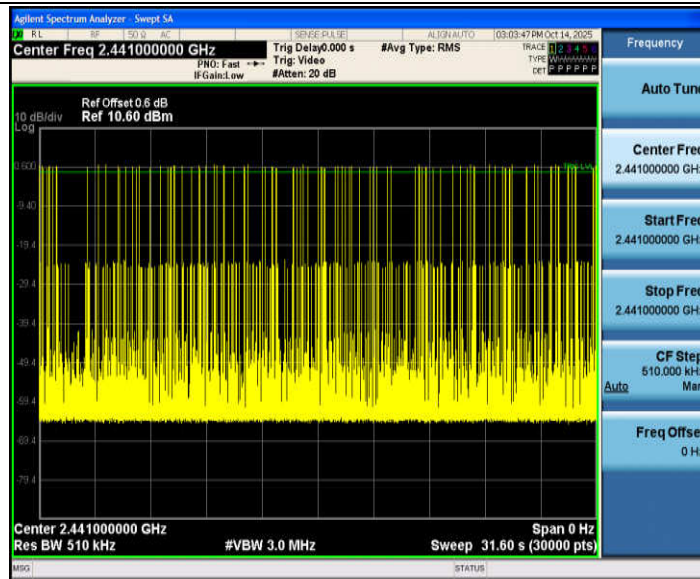


DH3_Ant1_Hop

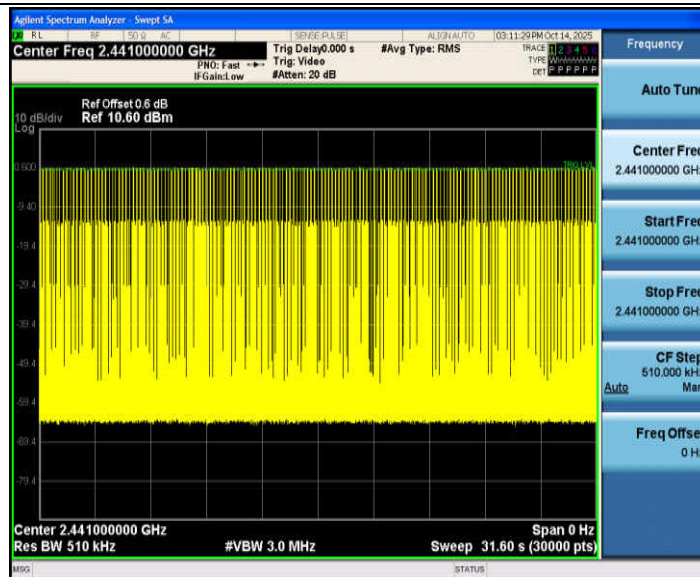
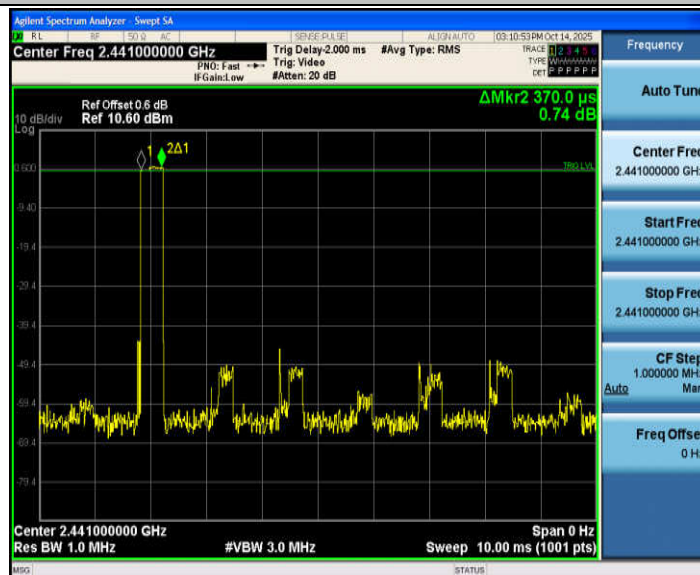


DH5_Ant1_Hop

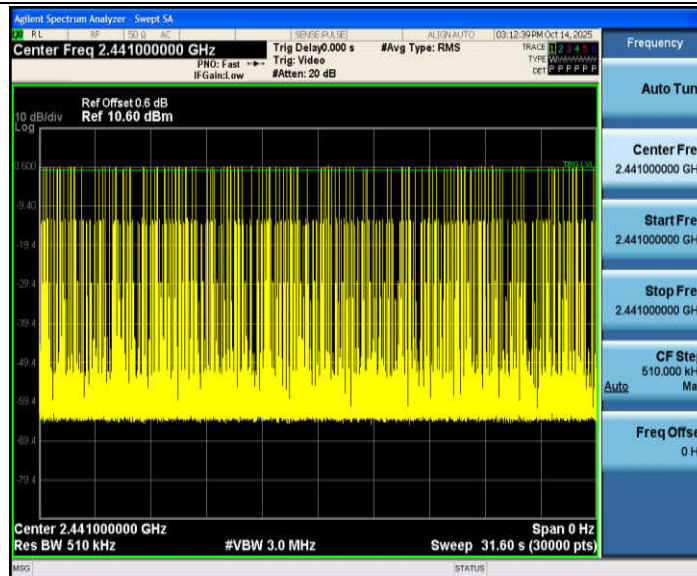
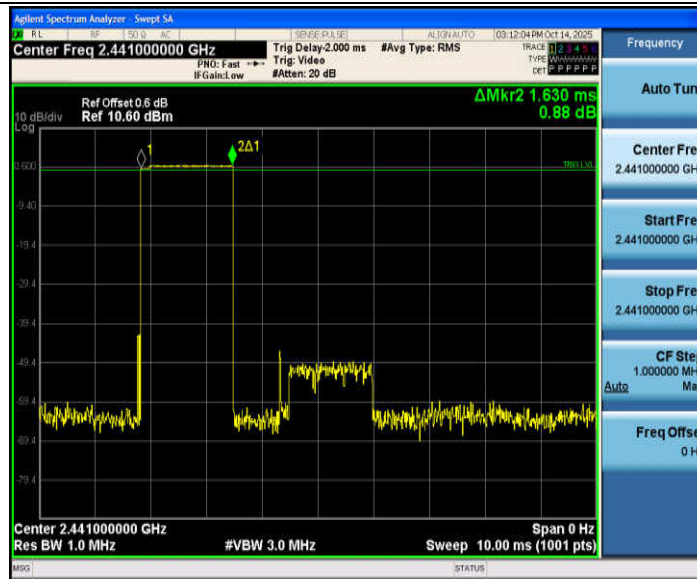




2DH1_Ant1_Hop

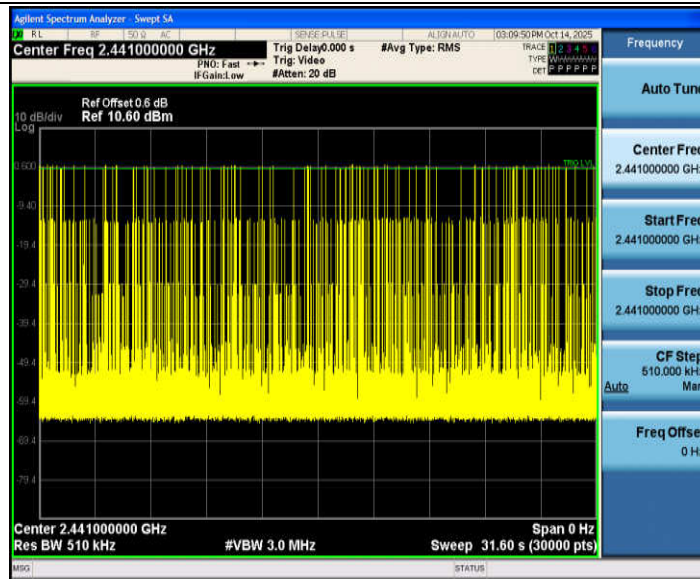


2DH3_Ant1_Hop

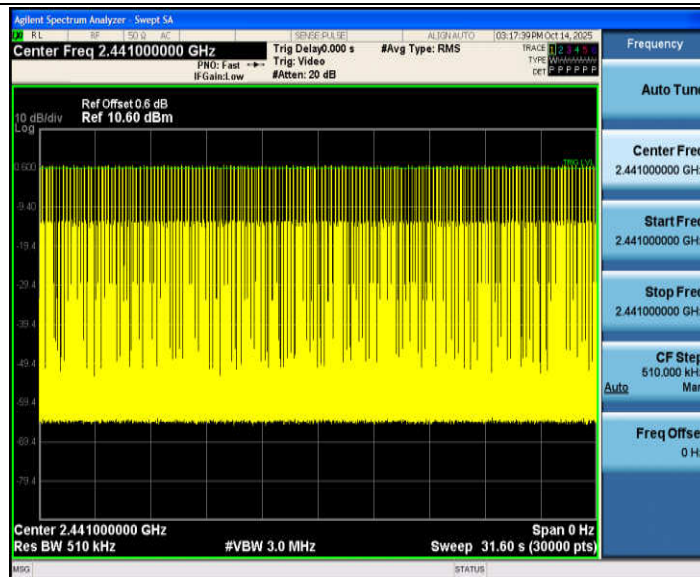
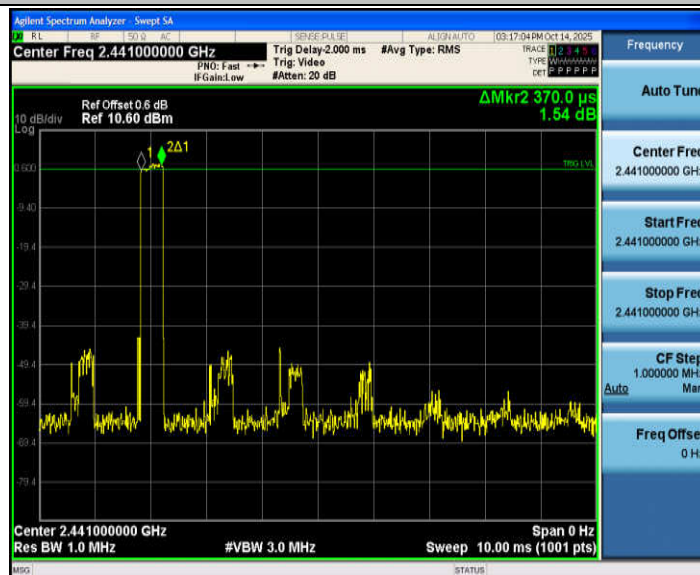


2DH5_Ant1_Hop

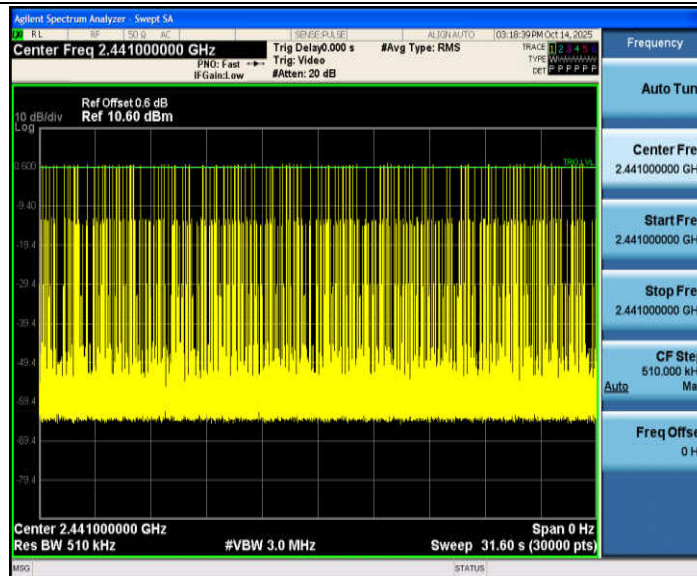
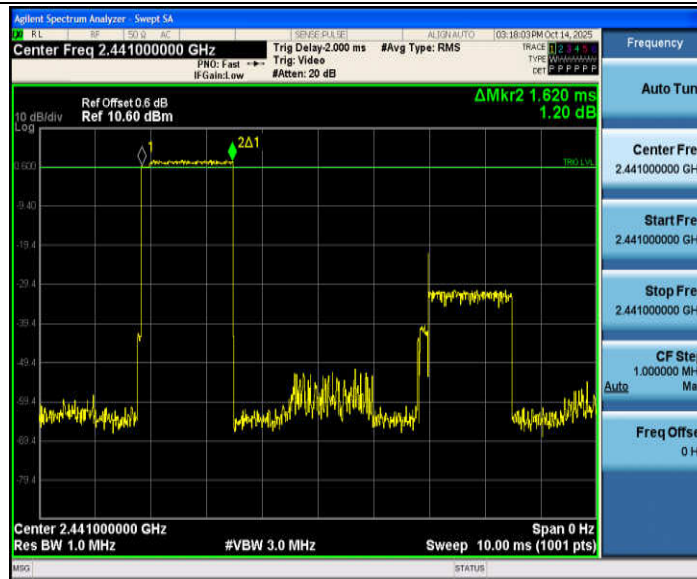




3DH1_Ant1_Hop



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

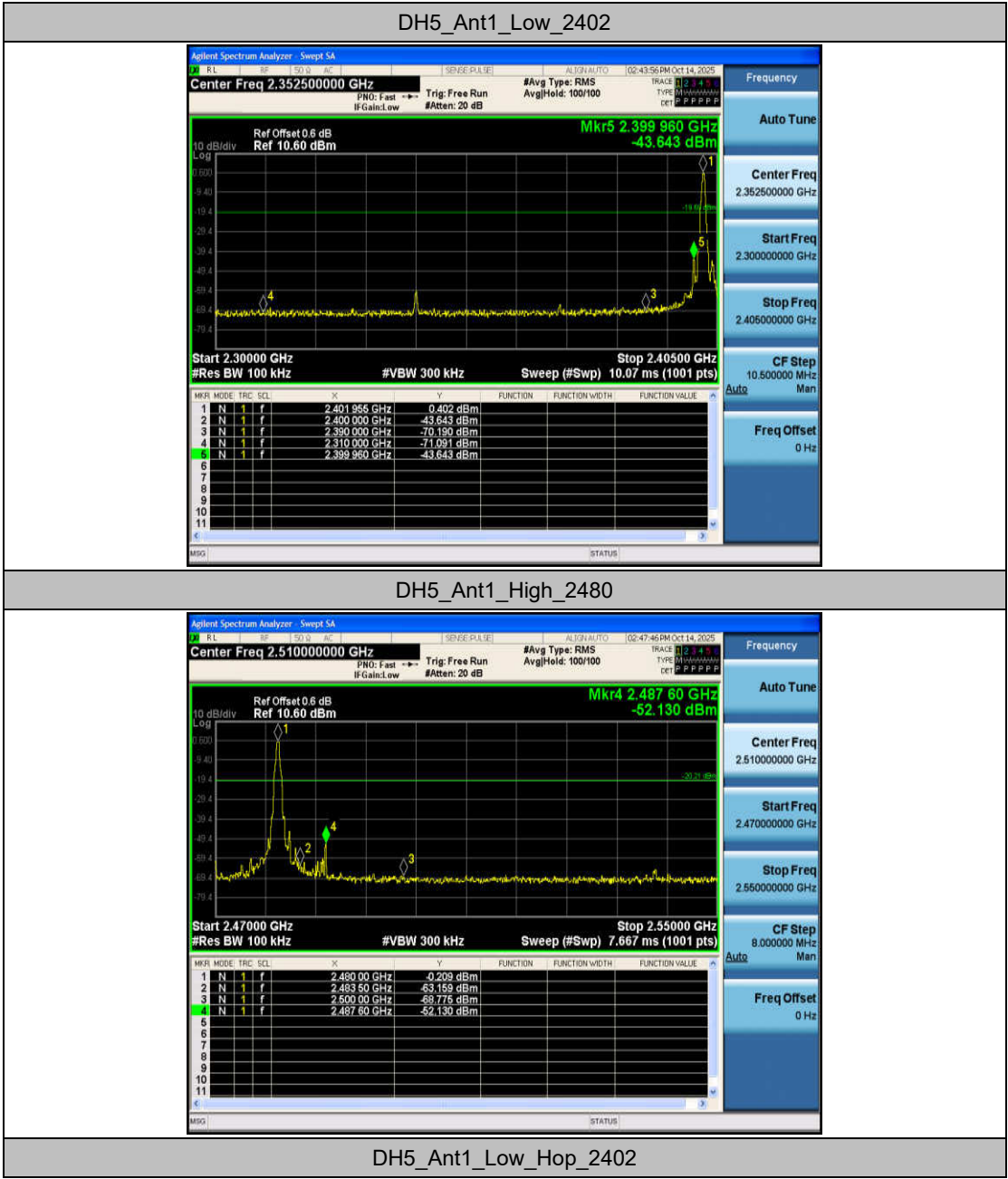


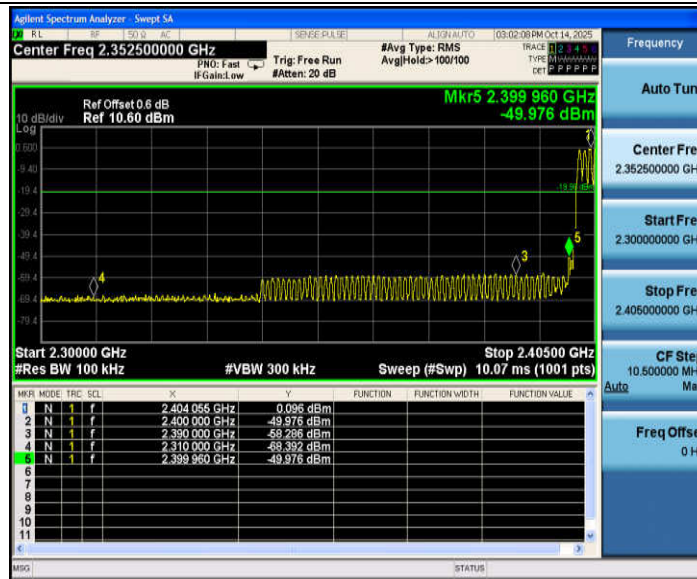
Appendix G: Band edge measurements

Test Result

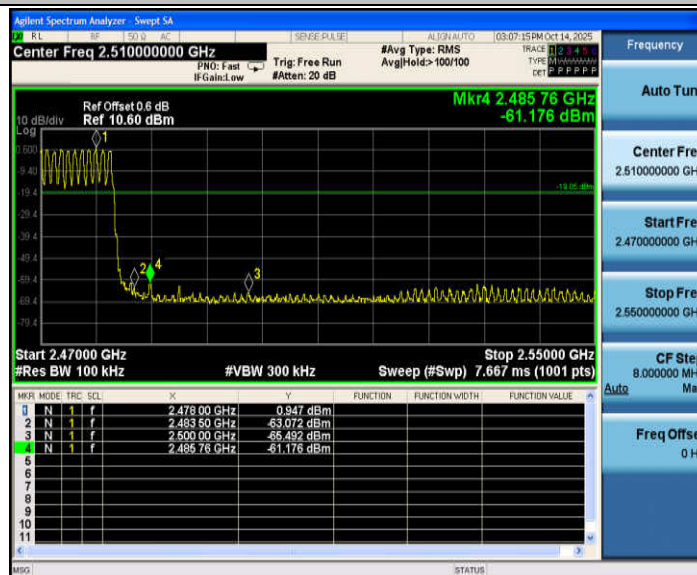
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.40	-43.64	≤-19.6	PASS
		High	2480	-0.21	-52.13	≤-20.21	PASS
		Low	Hop_2402	0.10	-49.98	≤-19.9	PASS
		High	Hop_2480	0.95	-61.18	≤-19.05	PASS
2DH5	Ant1	Low	2402	0.07	-50.48	≤-19.93	PASS
		High	2480	0.16	-47.68	≤-19.84	PASS
		Low	Hop_2402	-1.14	-52.08	≤-21.14	PASS
		High	Hop_2480	0.63	-43.77	≤-19.37	PASS
3DH5	Ant1	Low	2402	-1.24	-49.94	≤-21.24	PASS
		High	2480	0.28	-56.26	≤-19.72	PASS
		Low	Hop_2402	0.18	-52.13	≤-19.82	PASS
		High	Hop_2480	0.10	-56.26	≤-19.91	PASS

Test Graphs

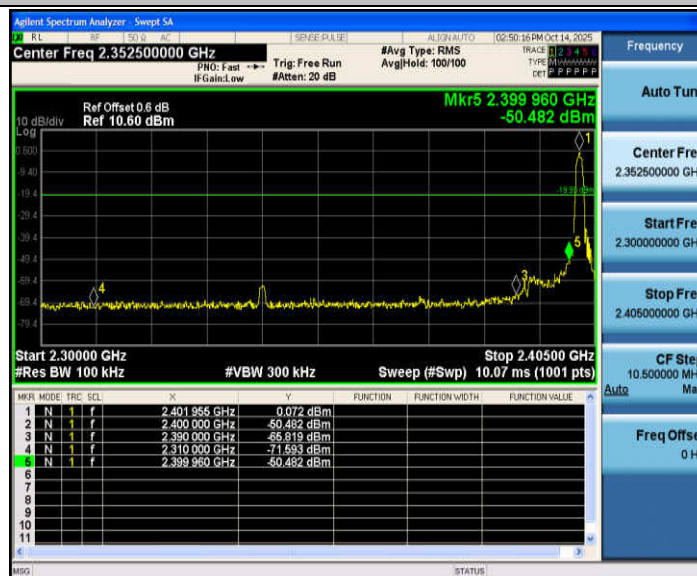




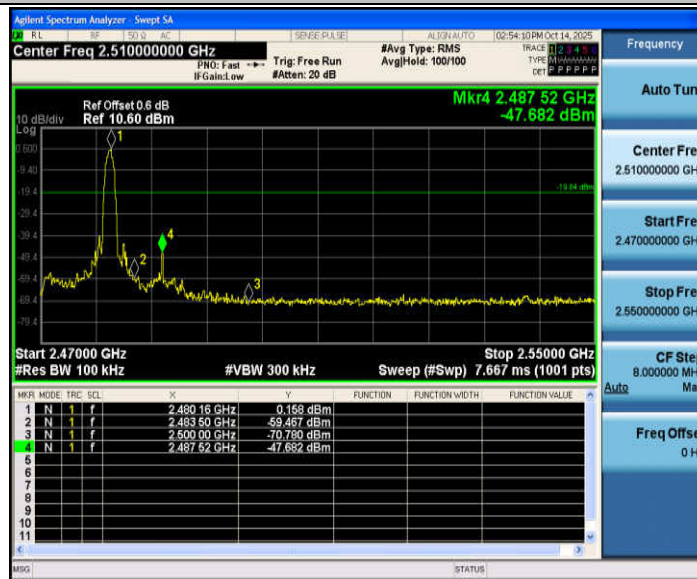
DH5_Ant1_High_Hop_2480



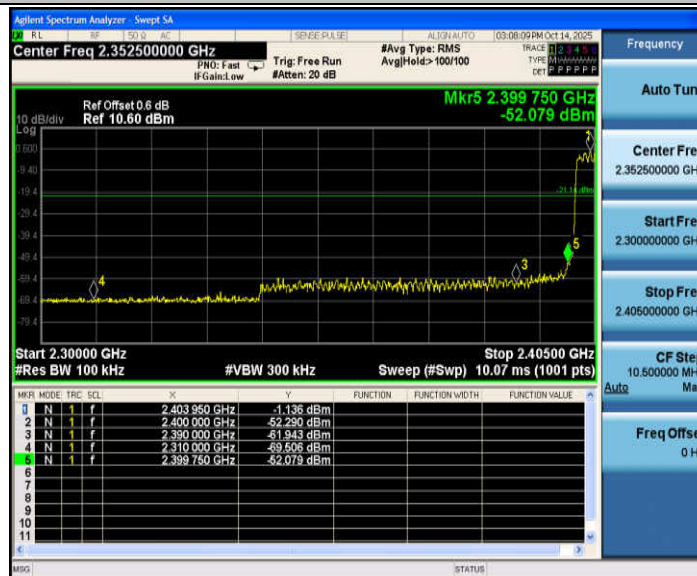
2DH5_Ant1_Low_2402



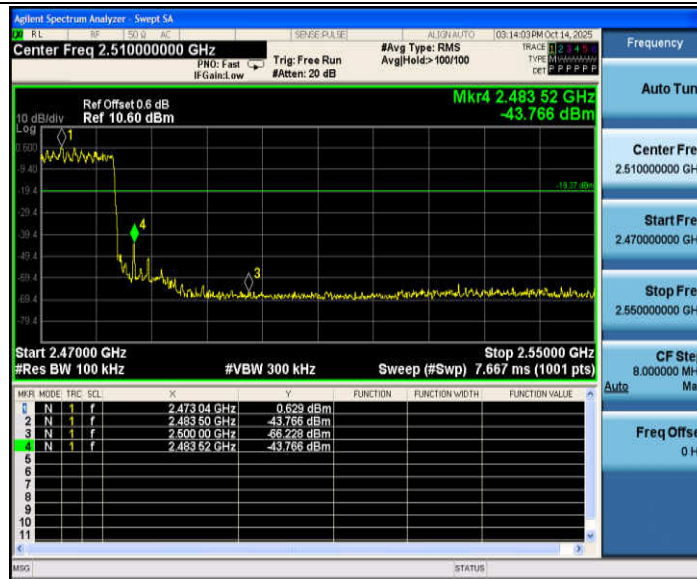
2DH5_Ant1_High_2480



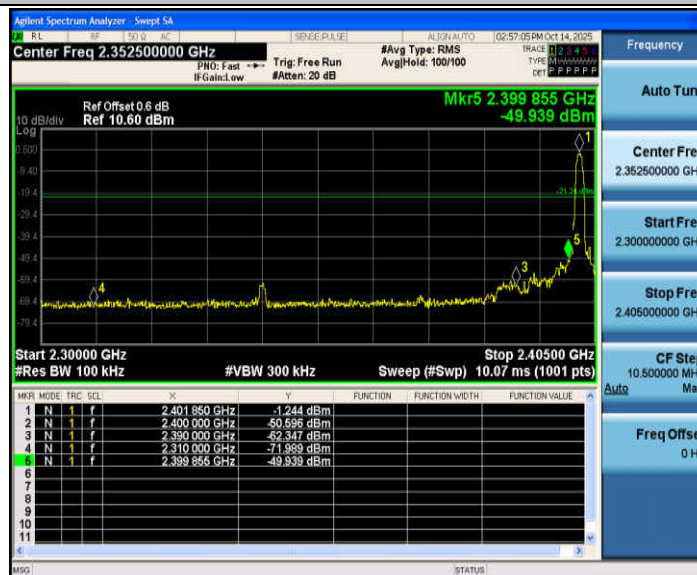
2DH5_Ant1_Low_Hop_2402



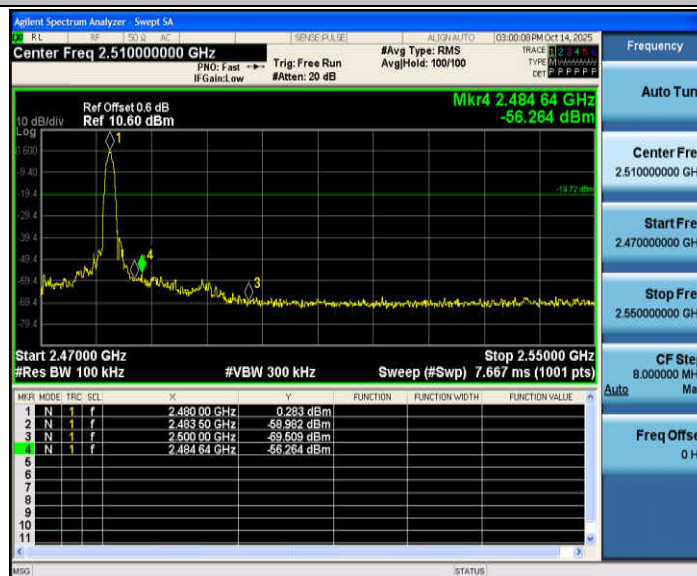
2DH5_Ant1_High_Hop_2480



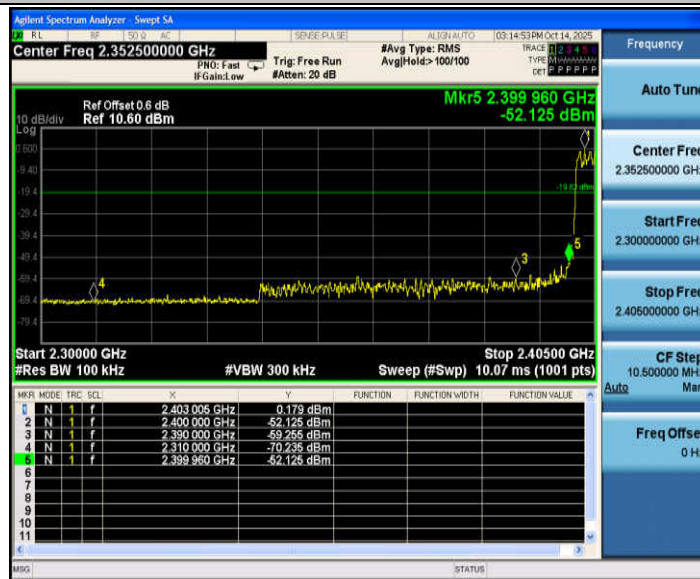
3DH5_Ant1_Low_2402



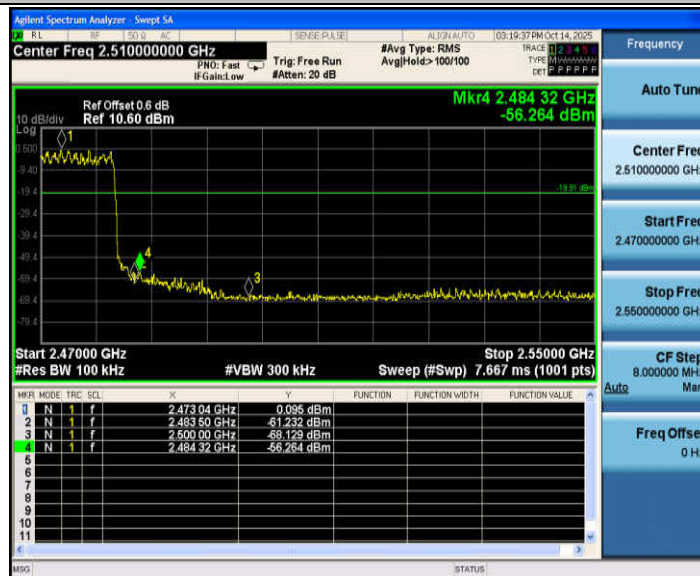
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

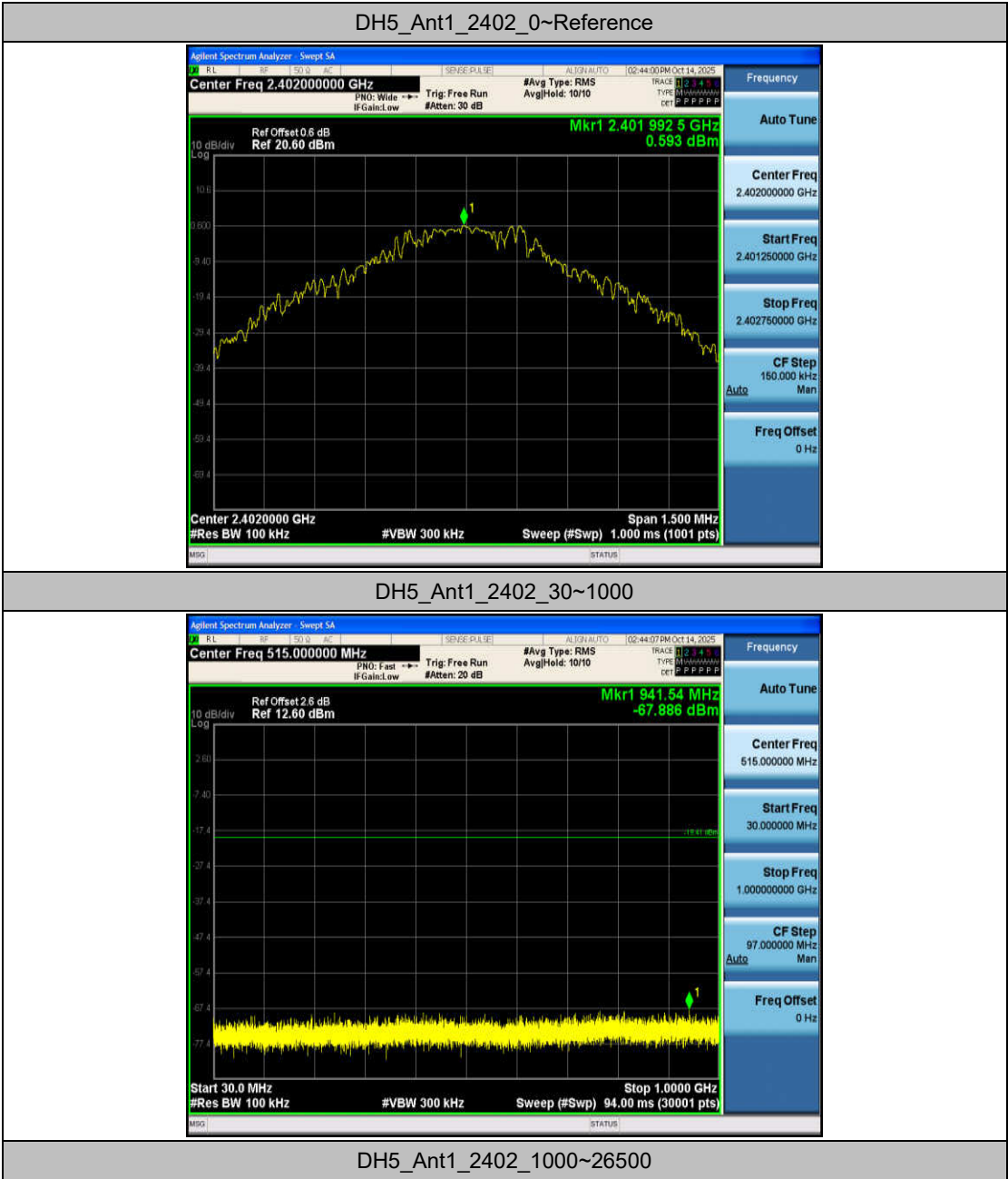


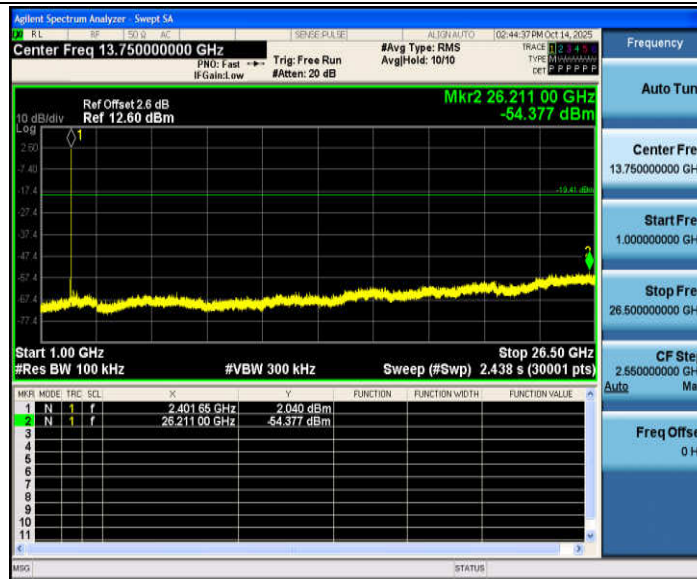
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.59	0.59	---	PASS
			30~1000	0.59	-67.89	≤-19.41	PASS
			1000~26500	0.59	-54.38	≤-19.41	PASS
		2441	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-68.22	≤-20.39	PASS
			1000~26500	-0.39	-54.76	≤-20.39	PASS
		2480	Reference	-0.32	-0.32	---	PASS
			30~1000	-0.32	-67.59	≤-20.32	PASS
			1000~26500	-0.32	-54.14	≤-20.32	PASS
2DH5	Ant1	2402	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-67.21	≤-21.88	PASS
			1000~26500	-1.88	-54.59	≤-21.88	PASS
		2441	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-67.24	≤-20.34	PASS
			1000~26500	-0.34	-54.42	≤-20.34	PASS
		2480	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-68.09	≤-22.27	PASS
			1000~26500	-2.27	-54.78	≤-22.27	PASS
3DH5	Ant1	2402	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-68.03	≤-20.35	PASS
			1000~26500	-0.35	-54.77	≤-20.35	PASS
		2441	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-67.86	≤-21.19	PASS
			1000~26500	-1.19	-55.05	≤-21.19	PASS
		2480	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-67.57	≤-22.84	PASS
			1000~26500	-2.84	-54.36	≤-22.84	PASS

Test Graphs

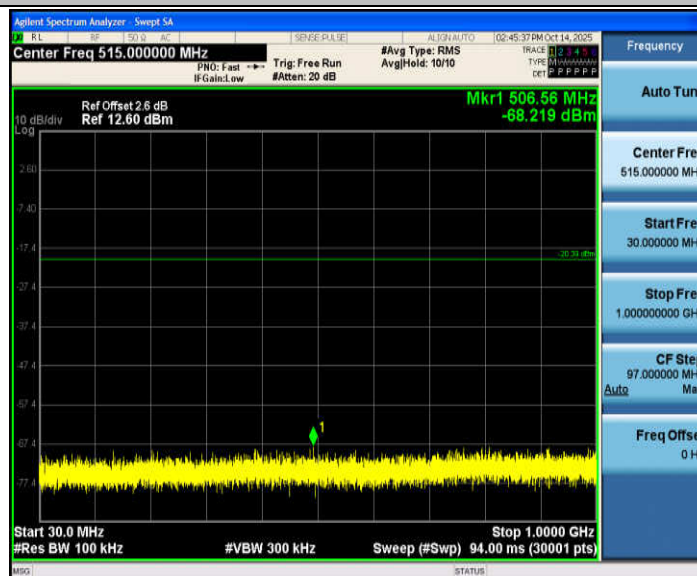




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



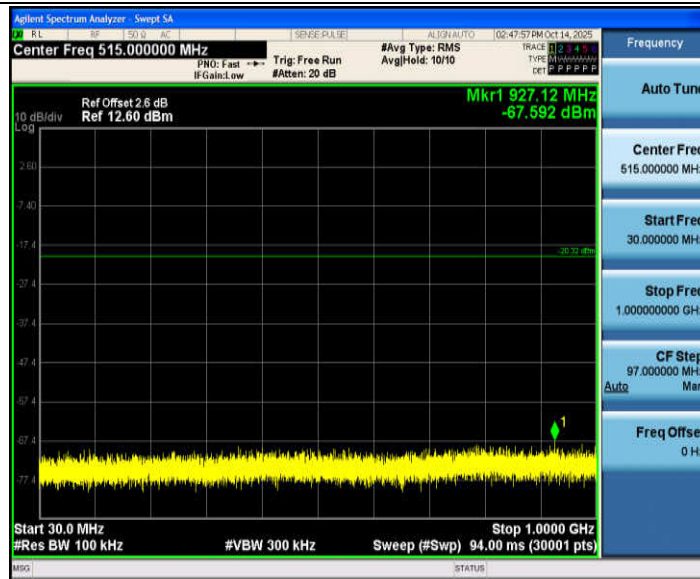
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



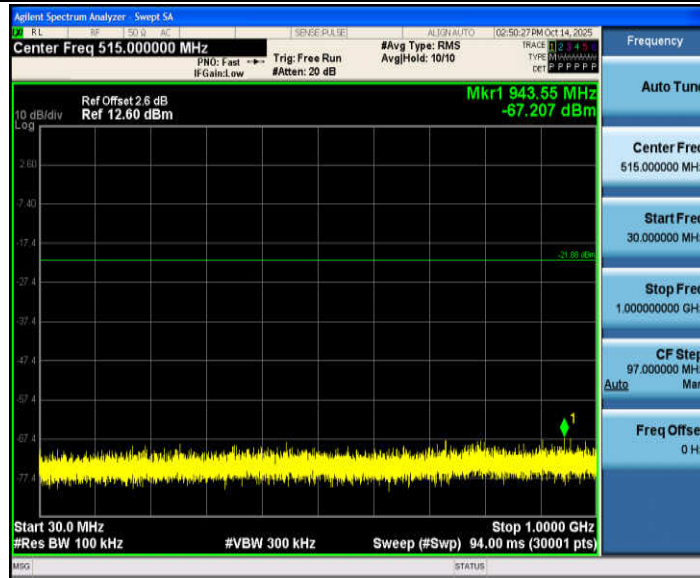
DH5_Ant1_2480_1000~26500



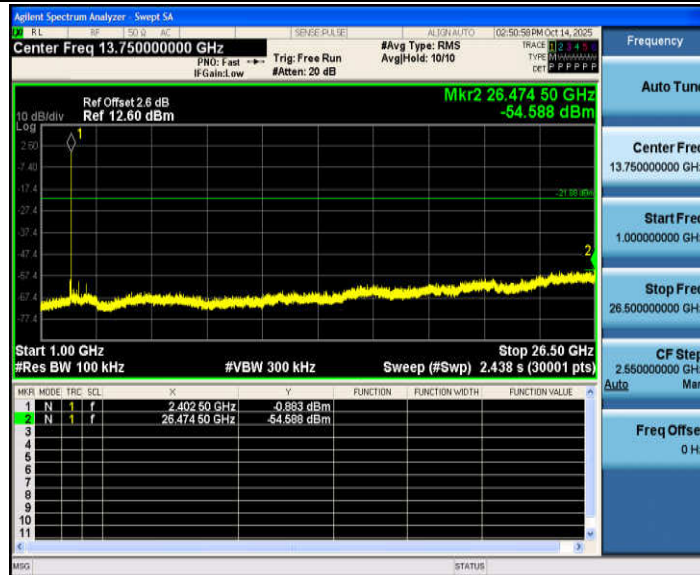
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



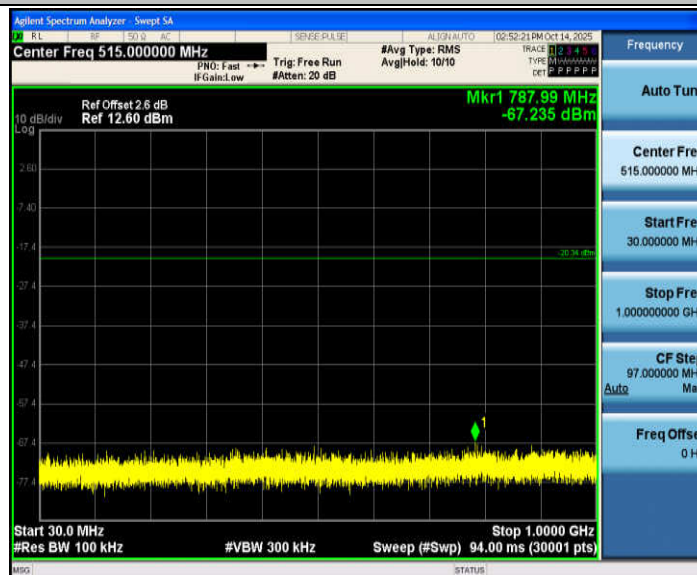
2DH5_Ant1_2402_1000~26500



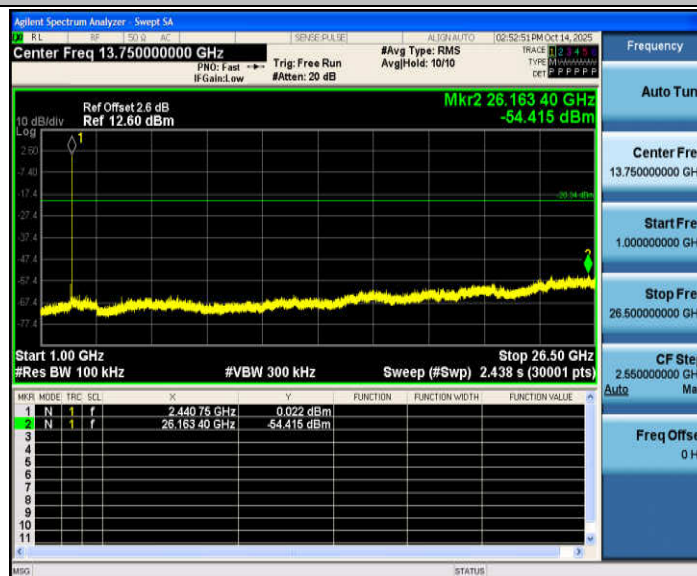
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

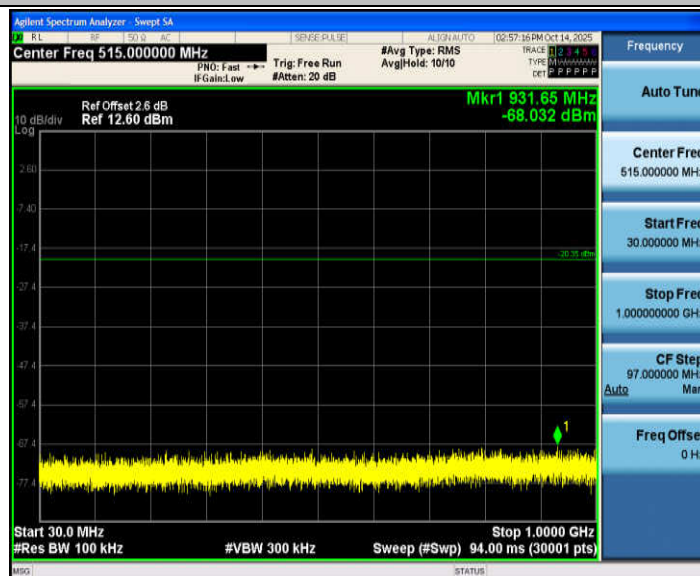




3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



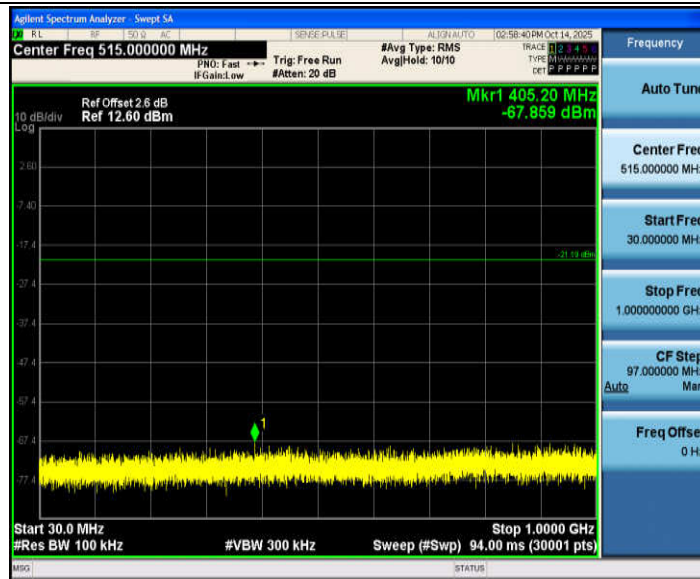
3DH5_Ant1_2402_1000~26500



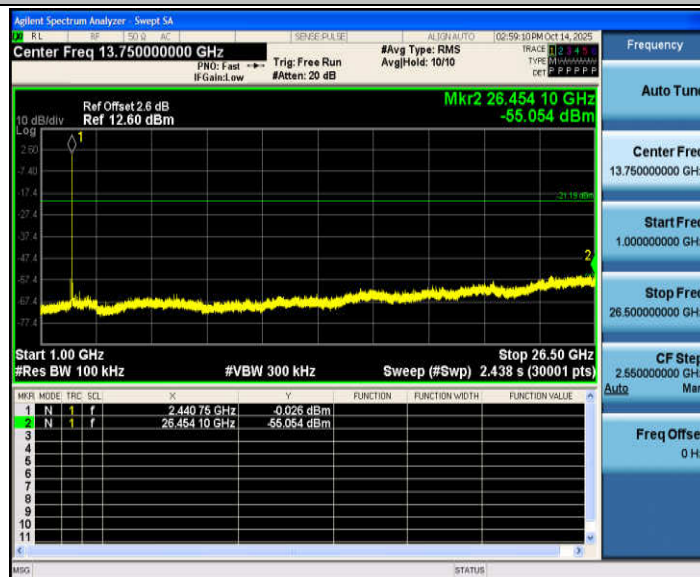
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



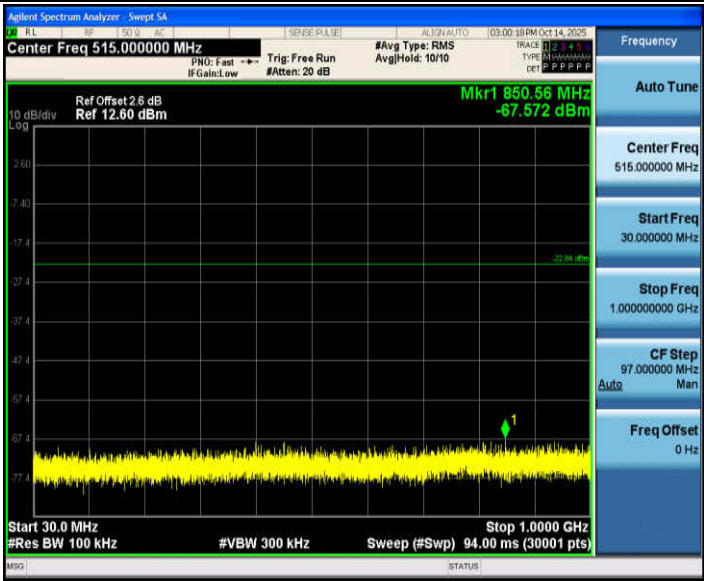
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

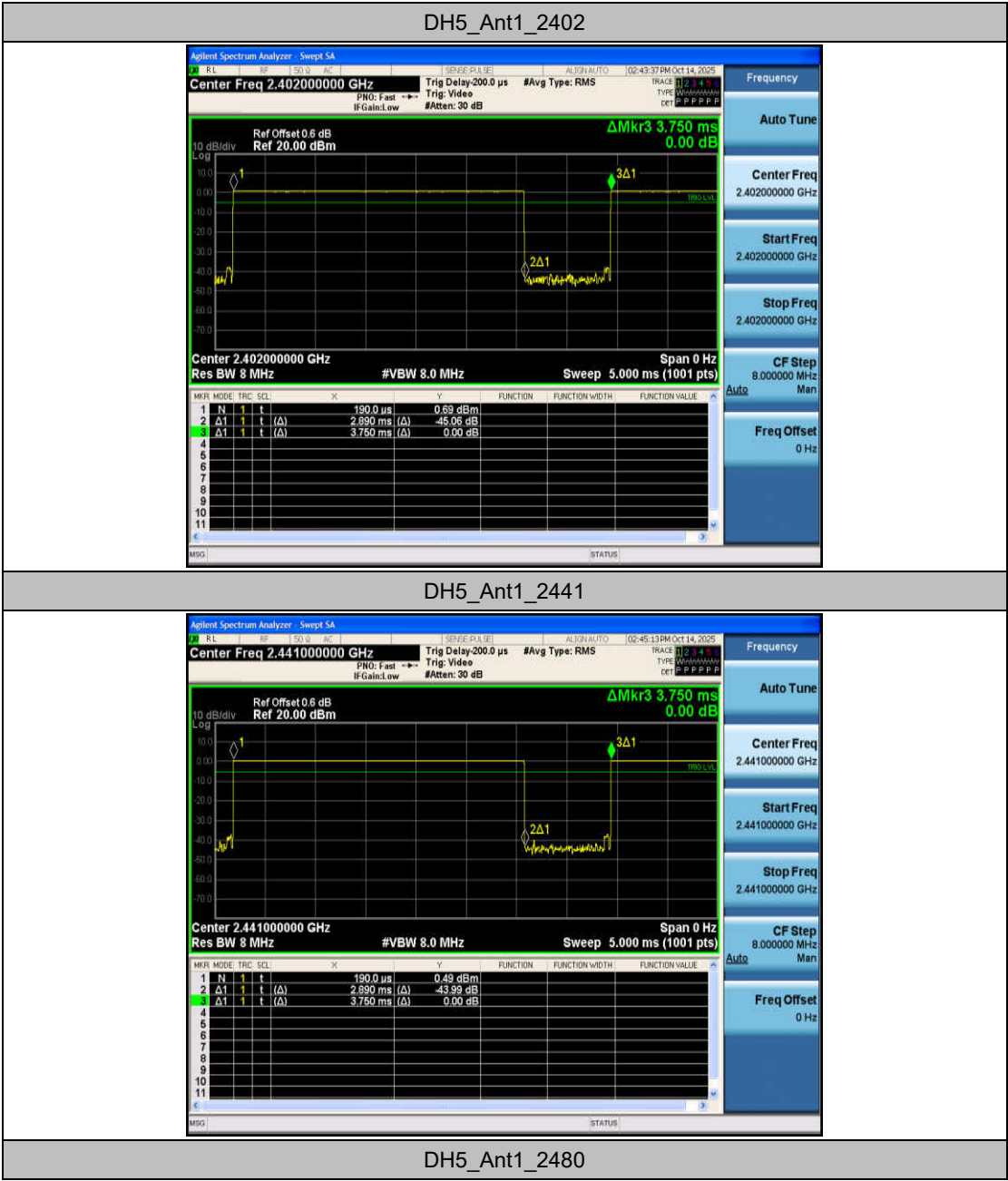


Appendix I: Duty Cycle

Test Result

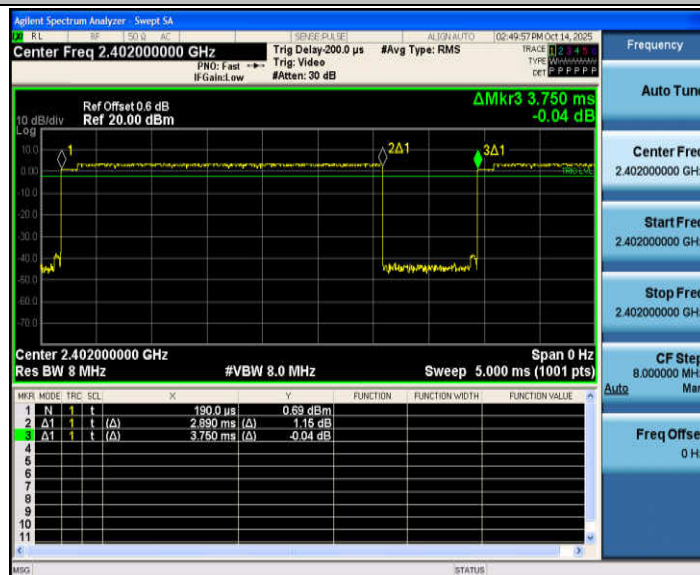
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---
2DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---
3DH5	Ant1	2402	2.90	3.75	77.33	1.12	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.90	3.75	77.33	1.12	---	---

Test Graphs

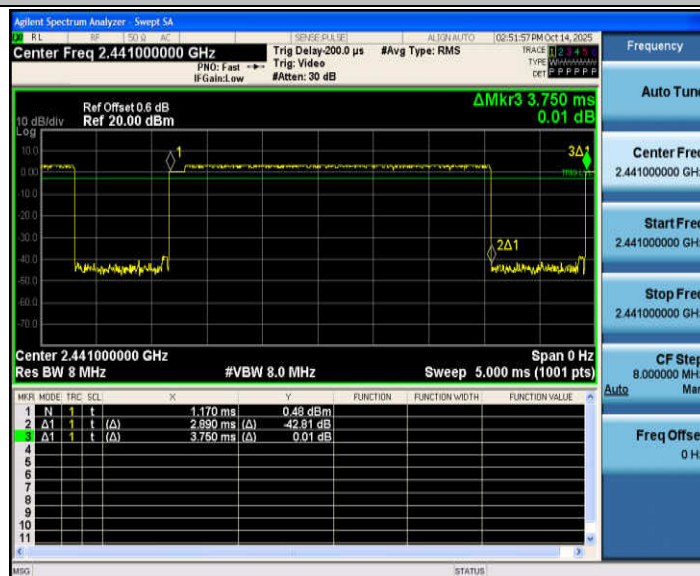




2DH5_Ant1_2402



2DH5_Ant1_2441





3DH5_Ant1_2480

