

FCC Appendix RF Test Data for BT

FCC ID : 2A8M2-PCD06

Company : Shenzhen Sunpin Industrial Co., Ltd.

EUT : CD player

Model Number : PCD06

Report No. : CTA25122300101

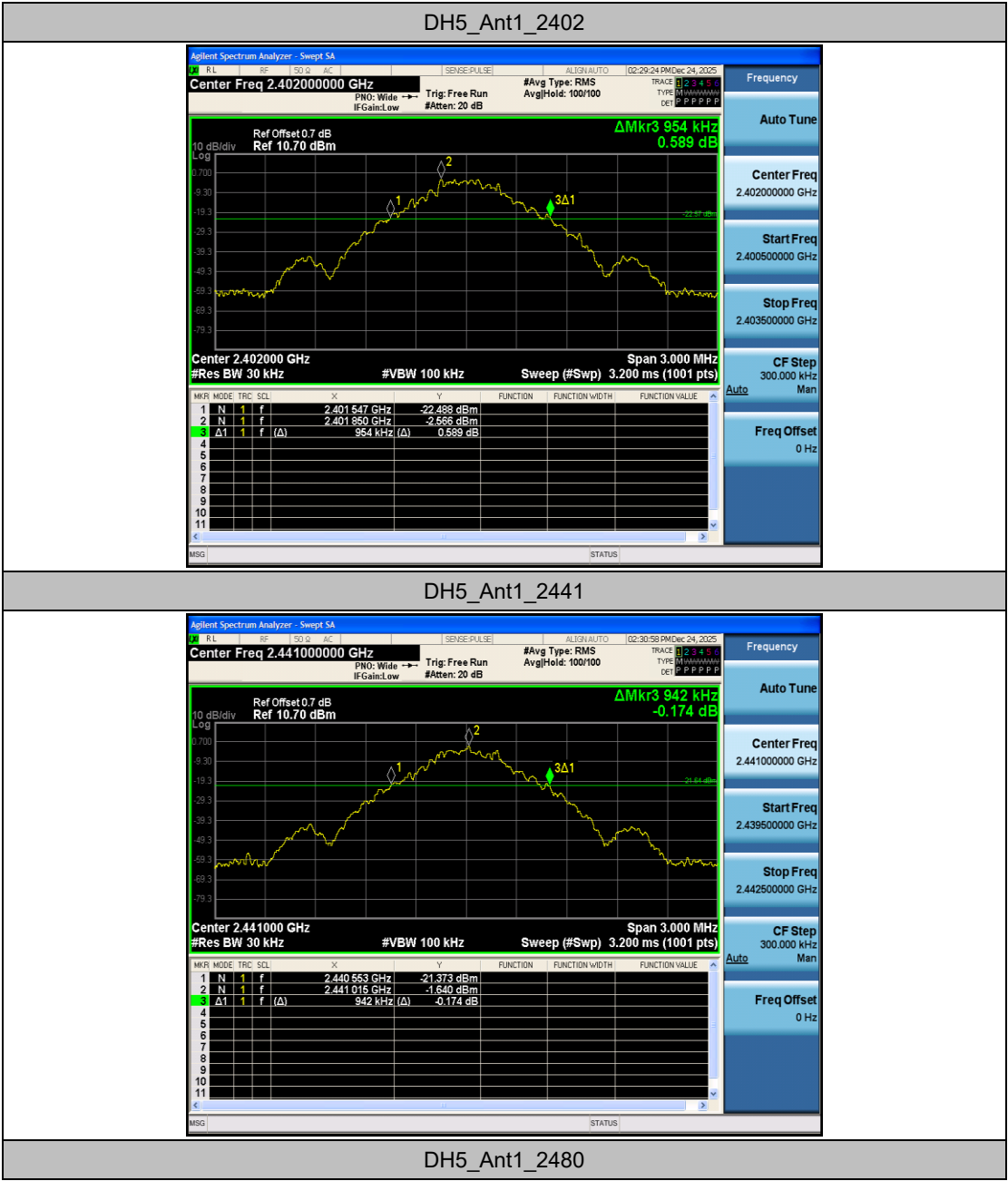
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.547	2402.501	---	---
		2441	0.942	2440.553	2441.495	---	---
		2480	0.939	2479.553	2480.492	---	---
2DH5	Ant1	2402	1.278	2401.382	2402.660	---	---
		2441	1.317	2440.352	2441.669	---	---
		2480	1.281	2479.382	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

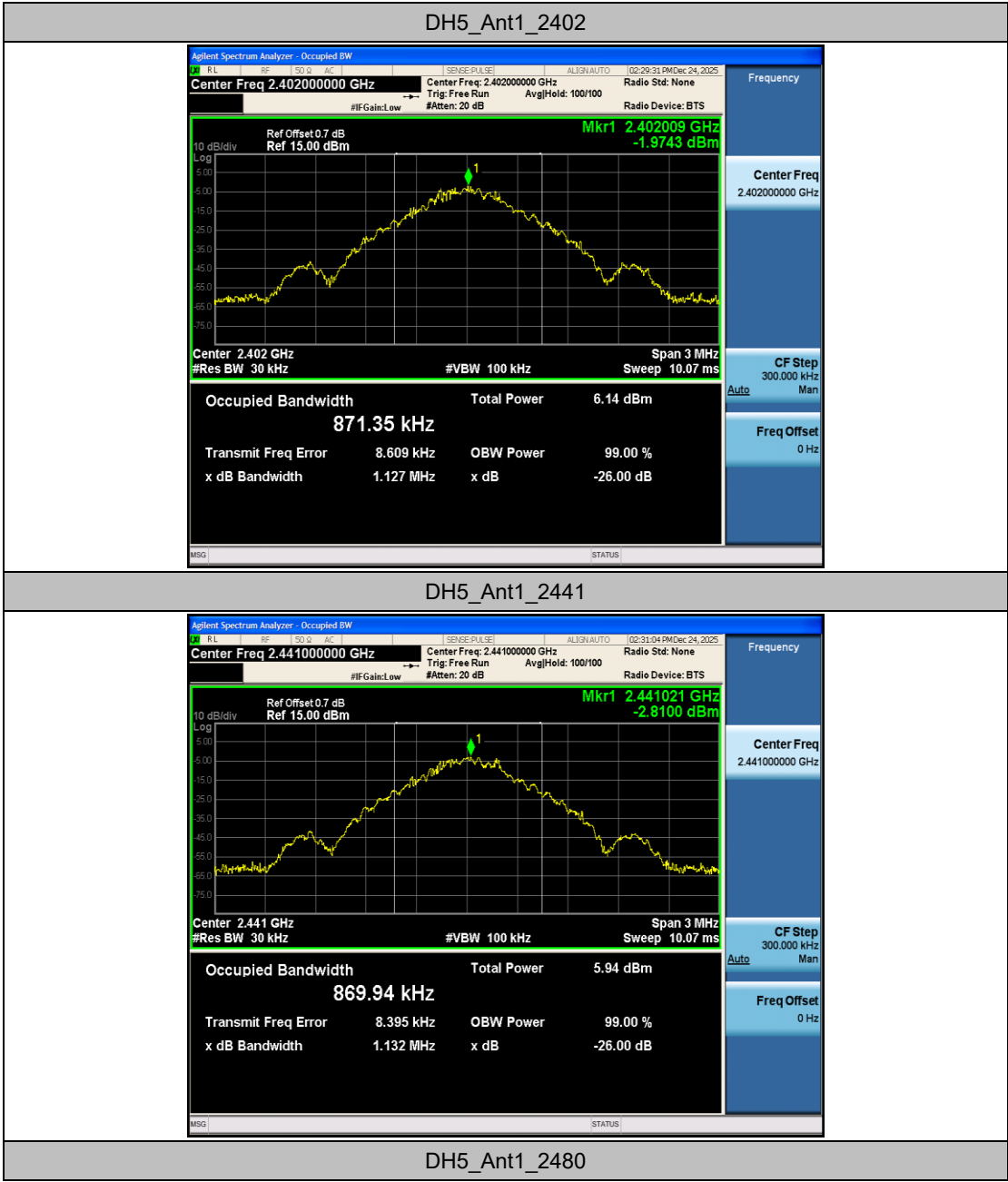


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87135	2401.5729	2402.4443	---	---
		2441	0.86994	2440.5734	2441.4434	---	---
		2480	0.86781	2479.5751	2480.4429	---	---
2DH5	Ant1	2402	1.1877	2401.4158	2402.6035	---	---
		2441	1.1870	2440.4172	2441.6042	---	---
		2480	1.1910	2479.4163	2480.6073	---	---

Test Graphs

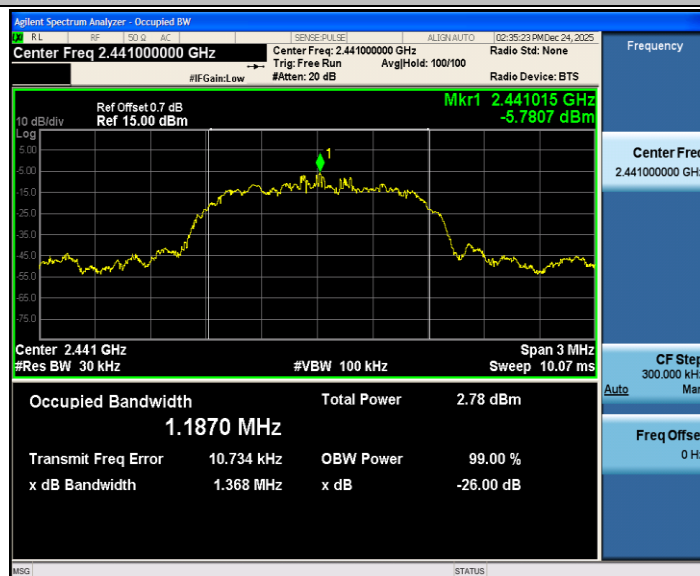




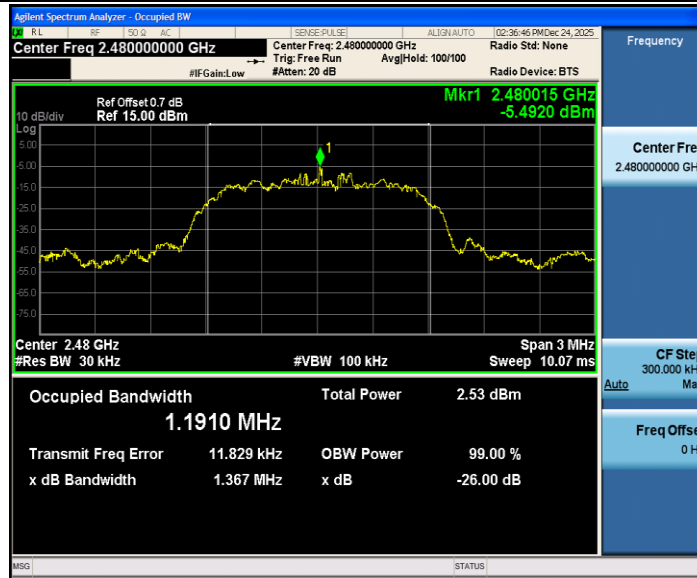
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

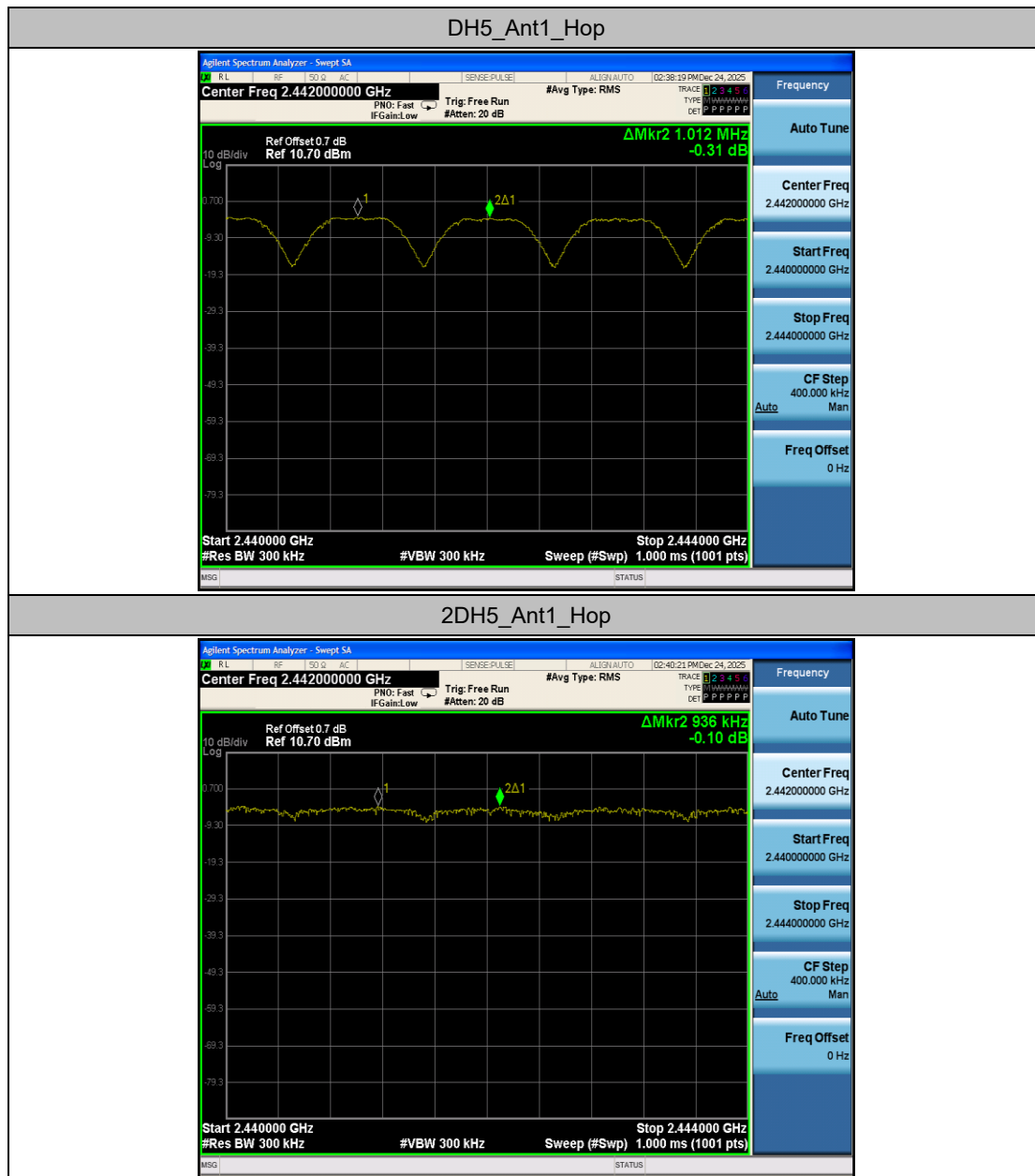
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.25	≤20.97	PASS
		2441	0.00	≤20.97	PASS
		2480	-0.08	≤20.97	PASS
2DH5	Ant1	2402	-0.56	≤20.97	PASS
		2441	-0.80	≤20.97	PASS
		2480	-0.97	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥ 0.954	PASS
2DH5	Ant1	Hop	0.936	≥ 0.878	PASS

Test Graphs

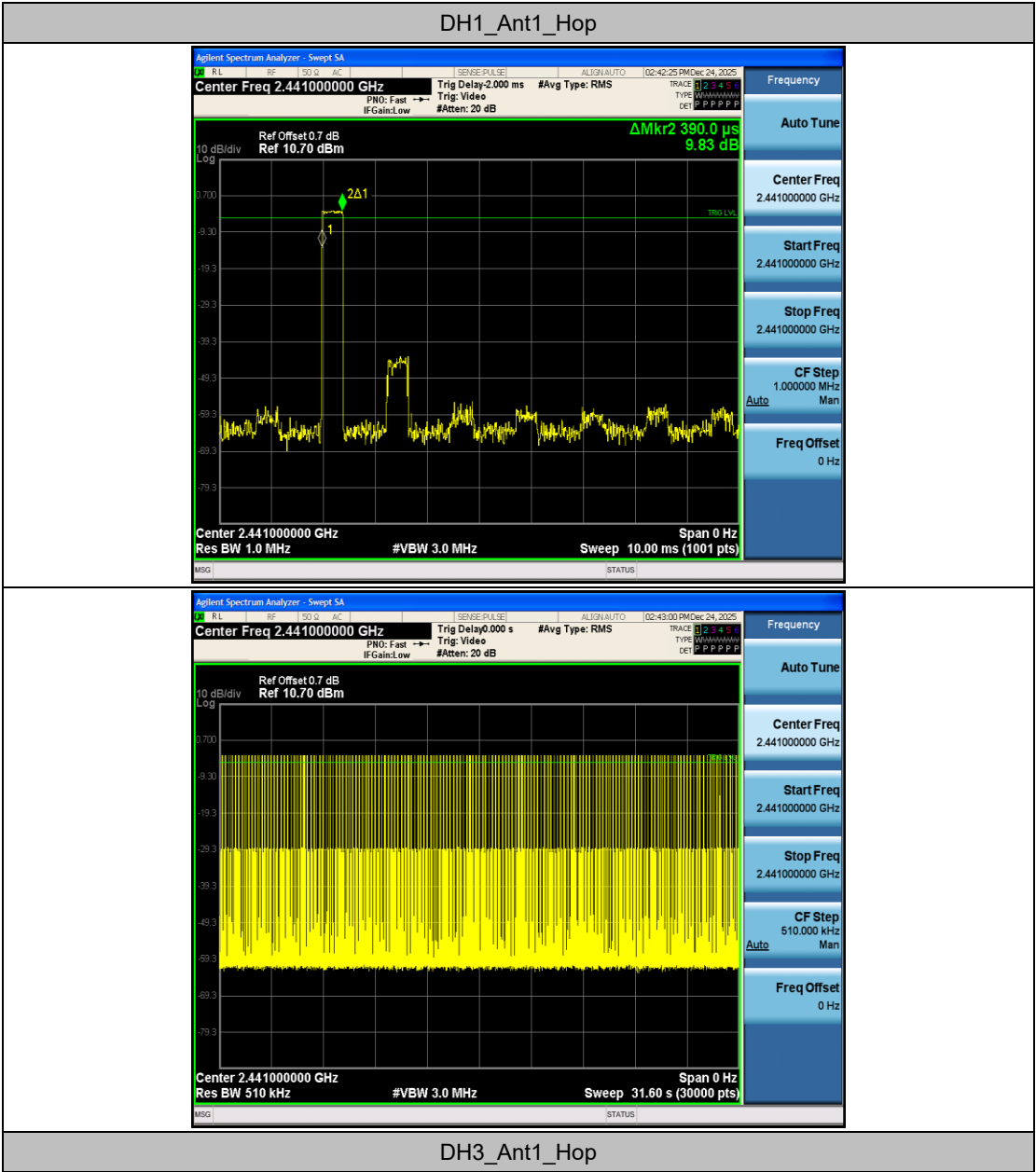


Appendix E: Time of occupancy

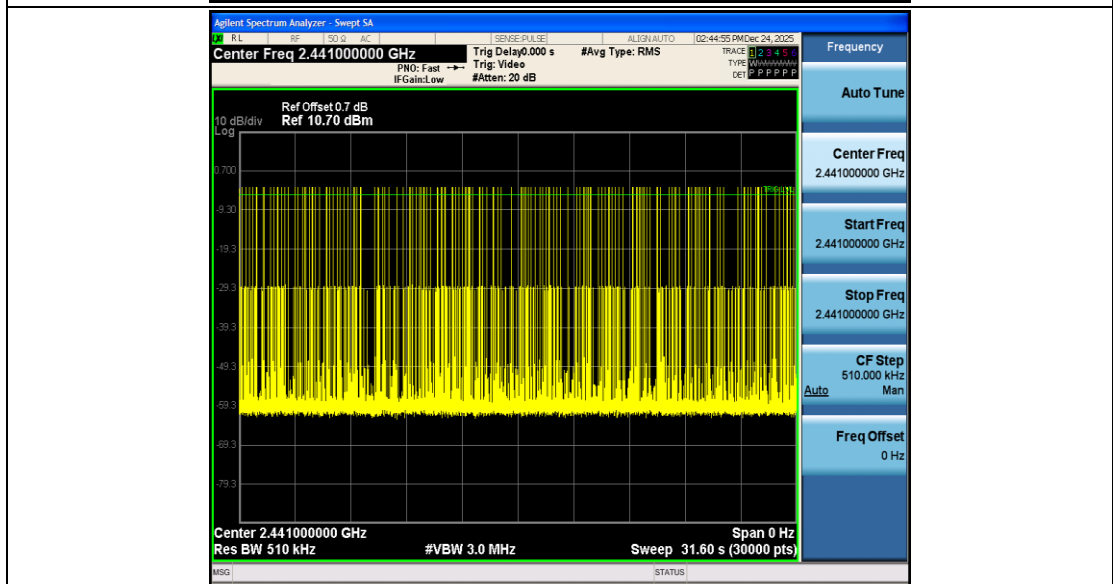
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	162	0.267	≤0.4	PASS
DH5	Ant1	Hop	2.890	99	0.286	≤0.4	PASS
2DH1	Ant1	Hop	0.390	315	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.650	156	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.900	110	0.319	≤0.4	PASS

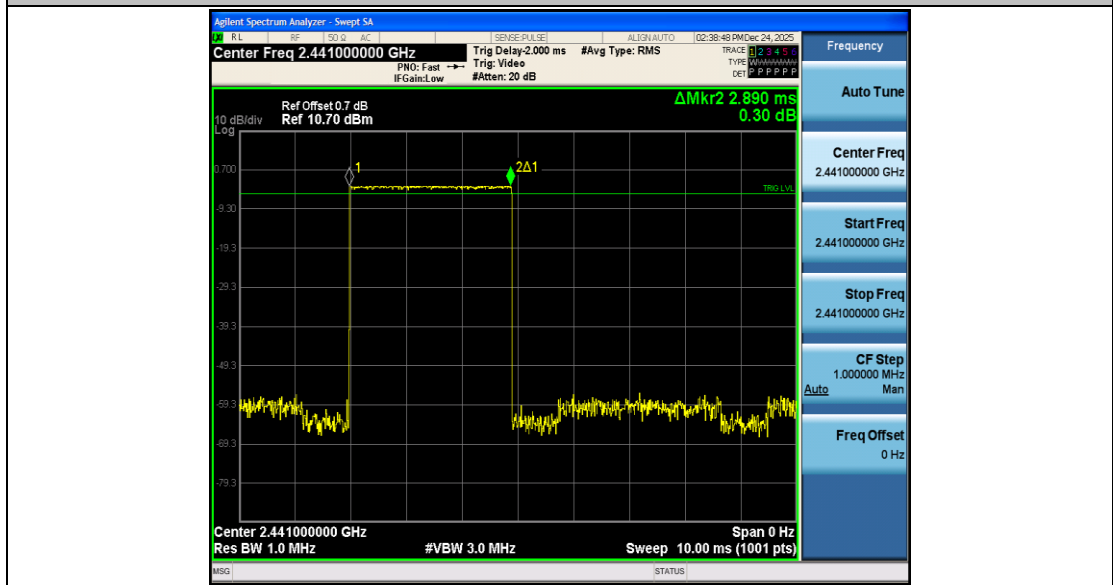
Test Graphs

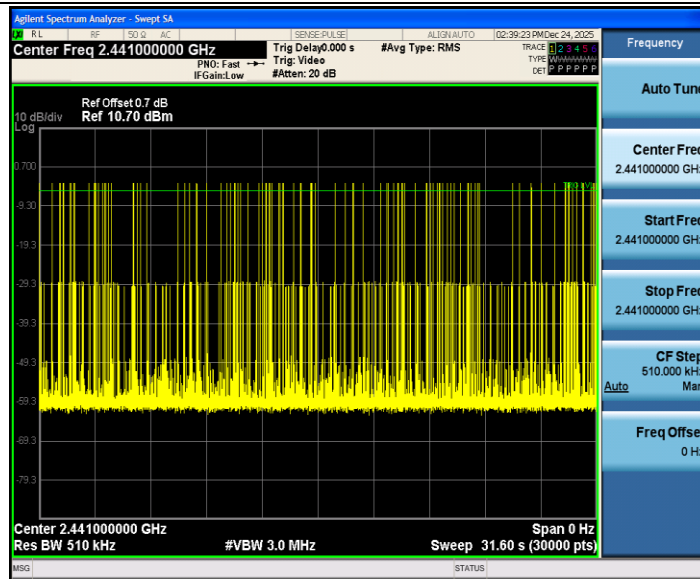


DH3_Ant1_Hop

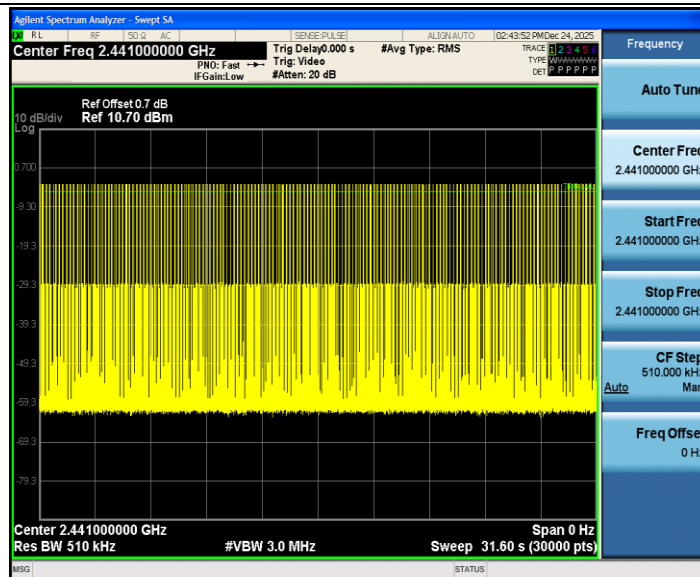
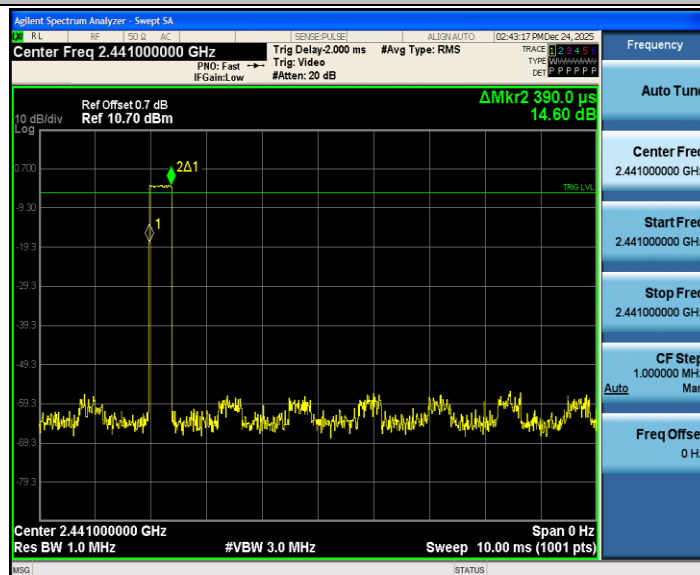


DH5_Ant1_Hop

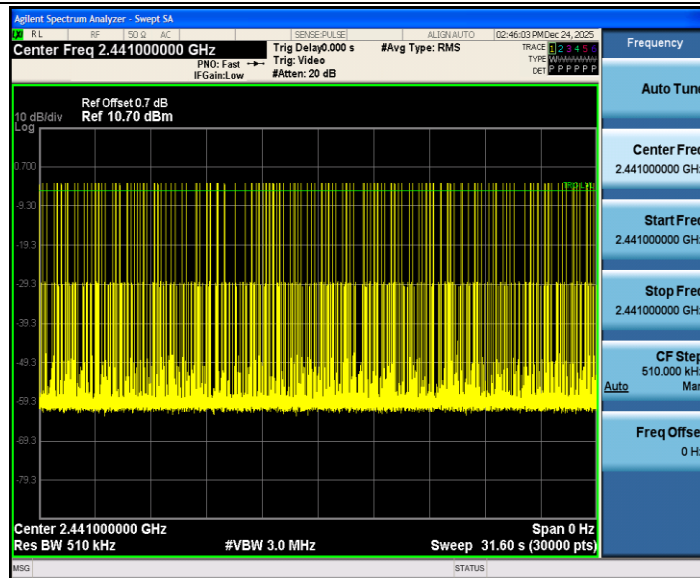




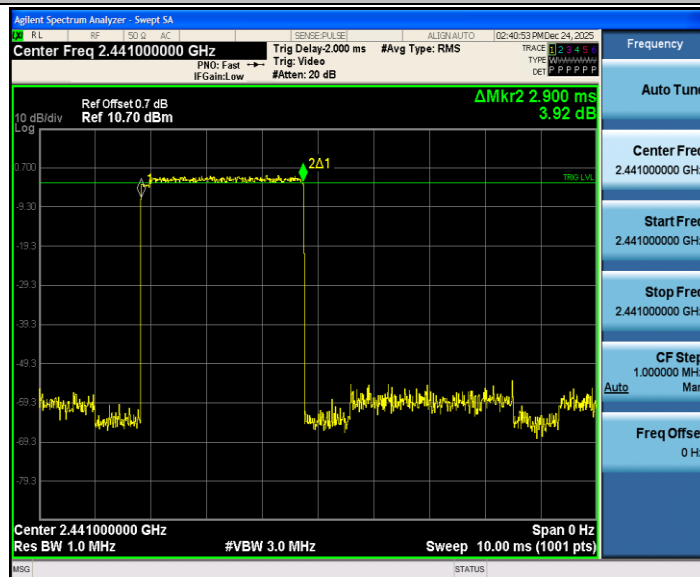
2DH1_Ant1_Hop

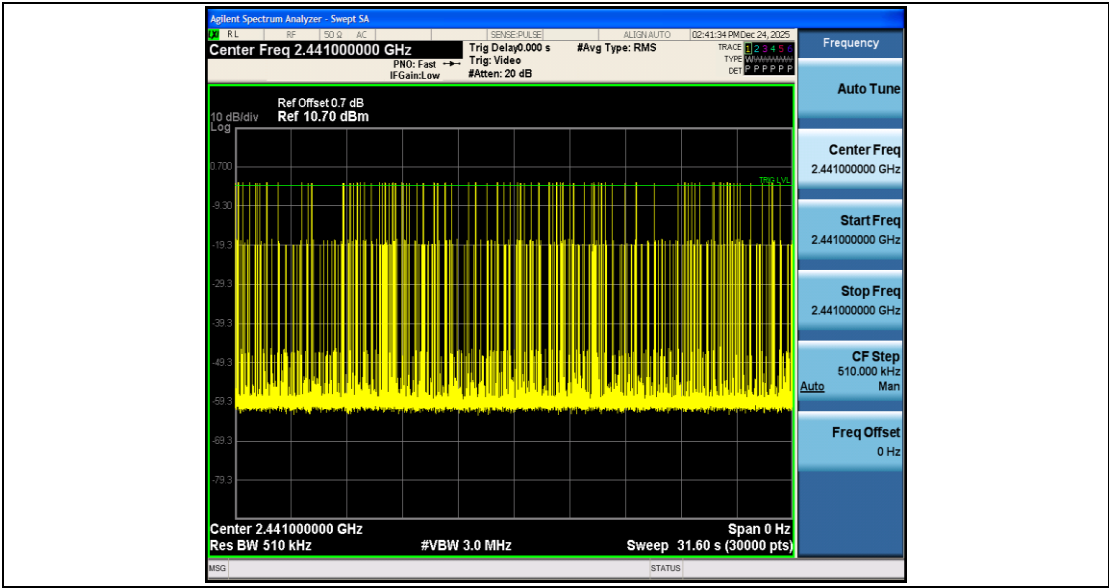


2DH3_Ant1_Hop



2DH5_Ant1_Hop



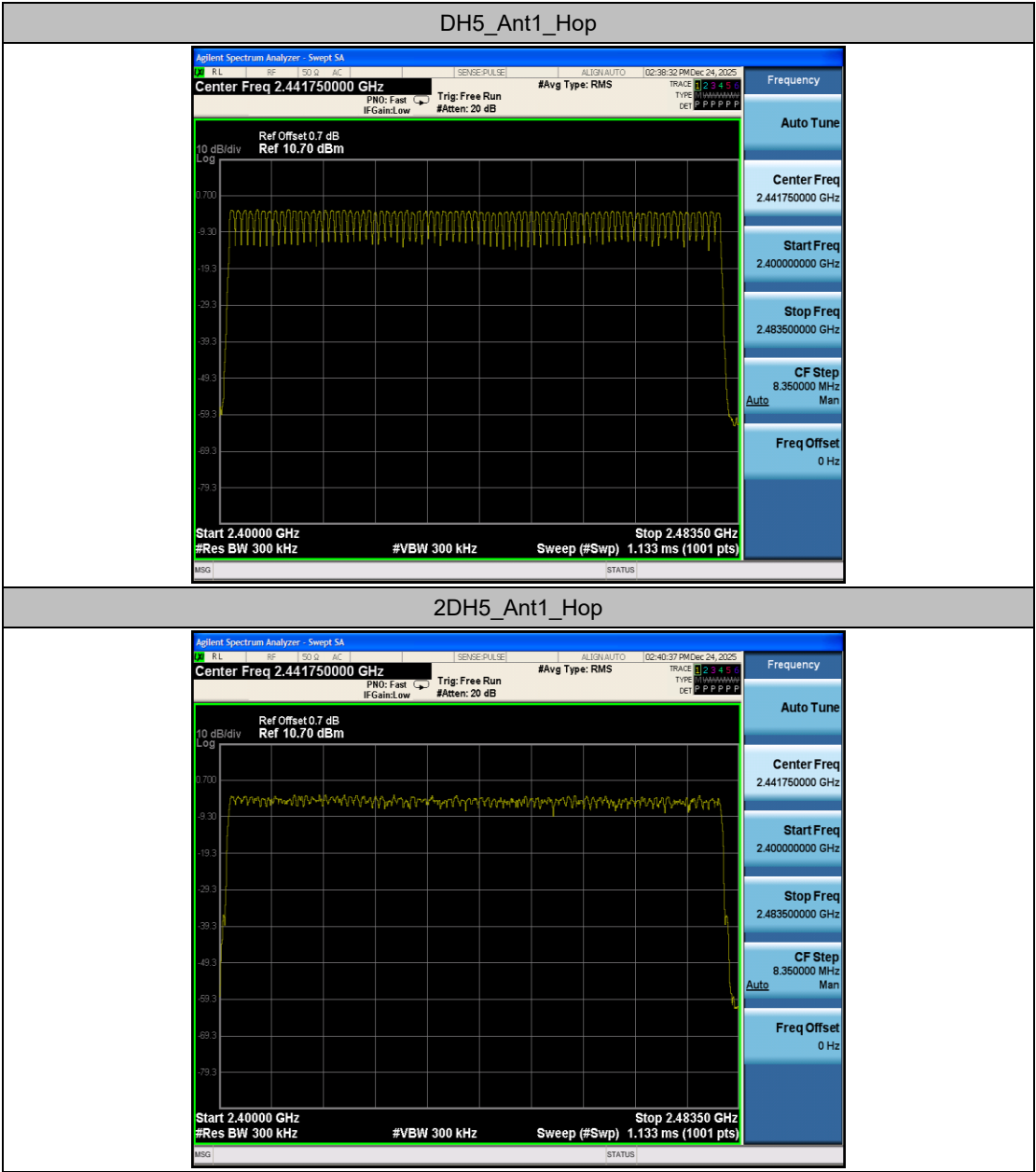


Appendix F: Number of hopping channels

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

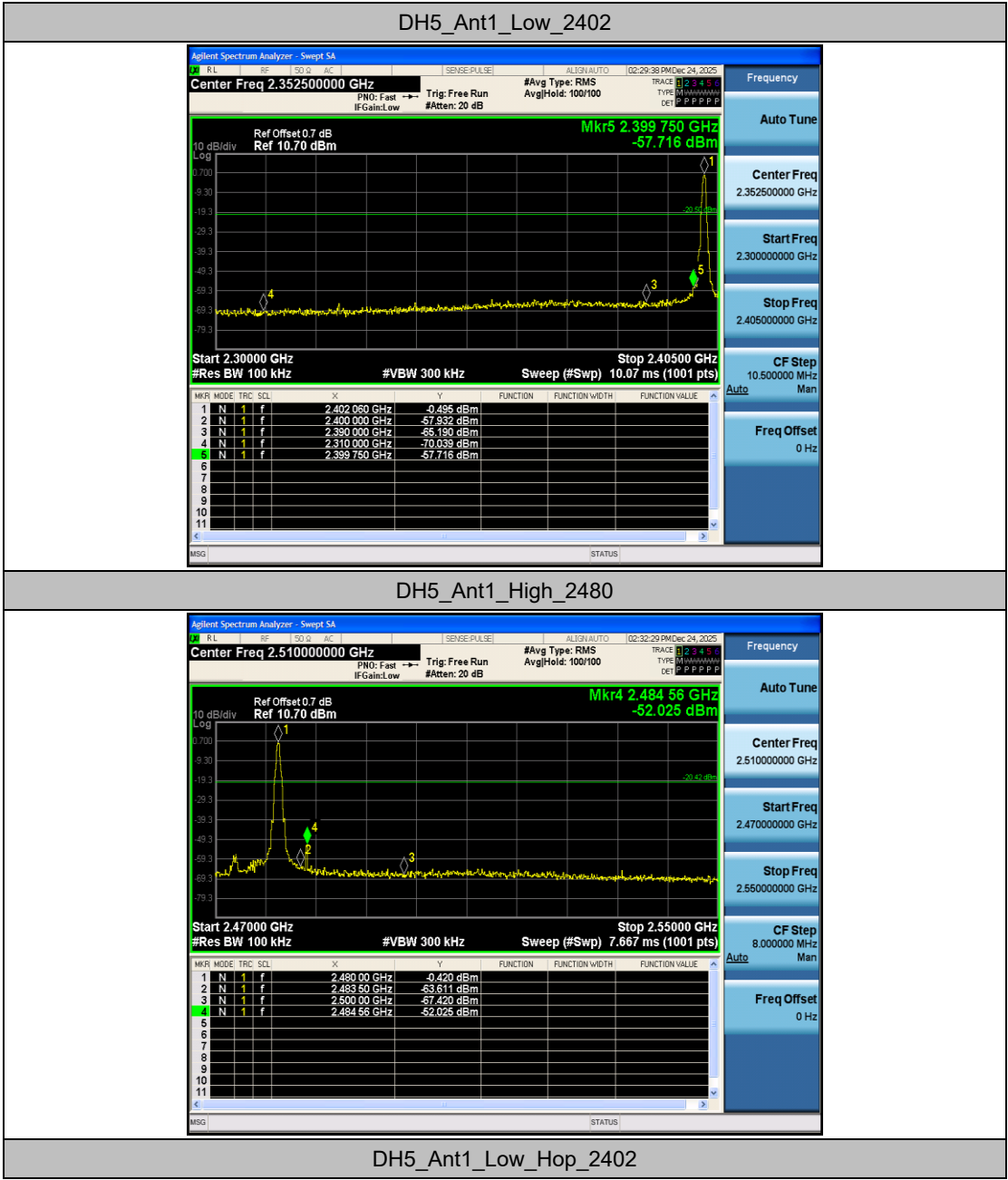


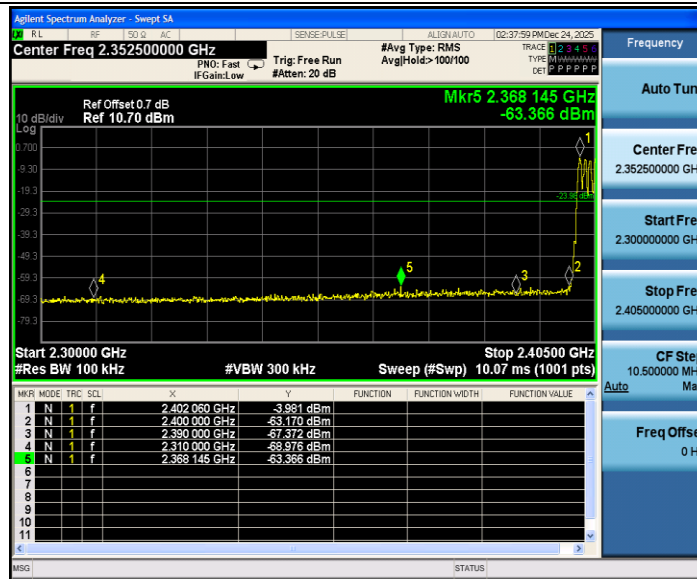
Appendix G: Band edge measurements

Test Result

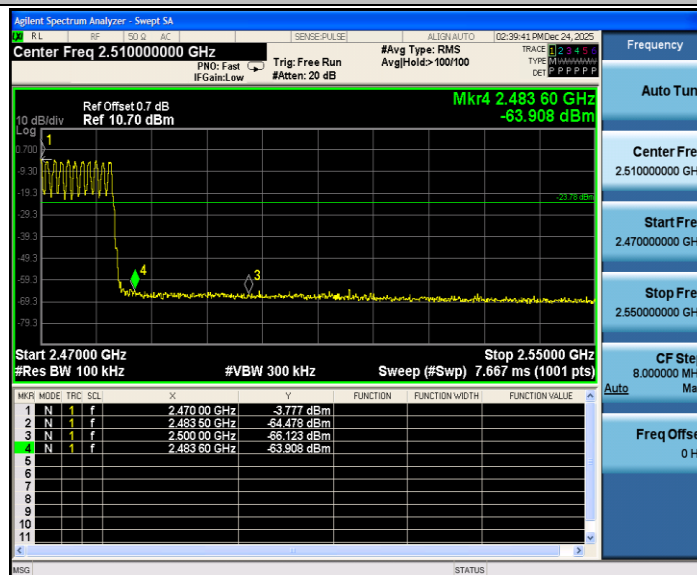
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.50	-57.72	≤-20.5	PASS
		High	2480	-0.42	-52.03	≤-20.42	PASS
		Low	Hop_2402	-3.98	-63.37	≤-23.98	PASS
		High	Hop_2480	-3.78	-63.91	≤-23.78	PASS
2DH5	Ant1	Low	2402	-4.24	-60.28	≤-24.24	PASS
		High	2480	-6.74	-63.51	≤-26.74	PASS
		Low	Hop_2402	-6.13	-61.48	≤-26.13	PASS
		High	Hop_2480	-7.01	-65.68	≤-27.01	PASS

Test Graphs

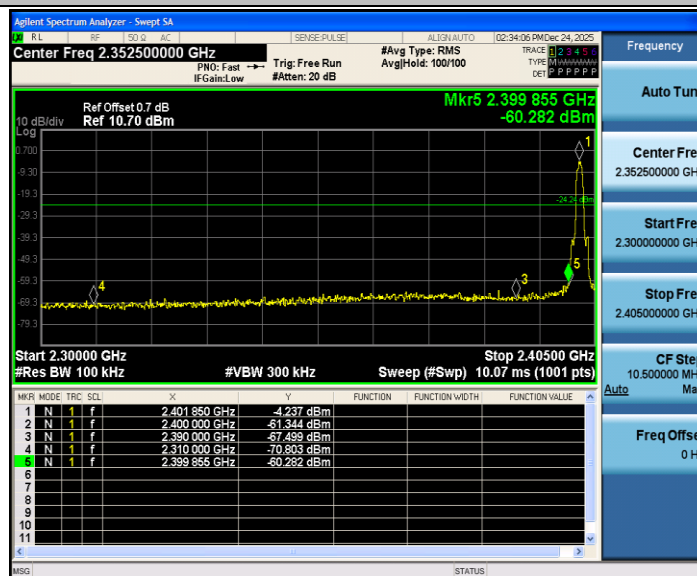




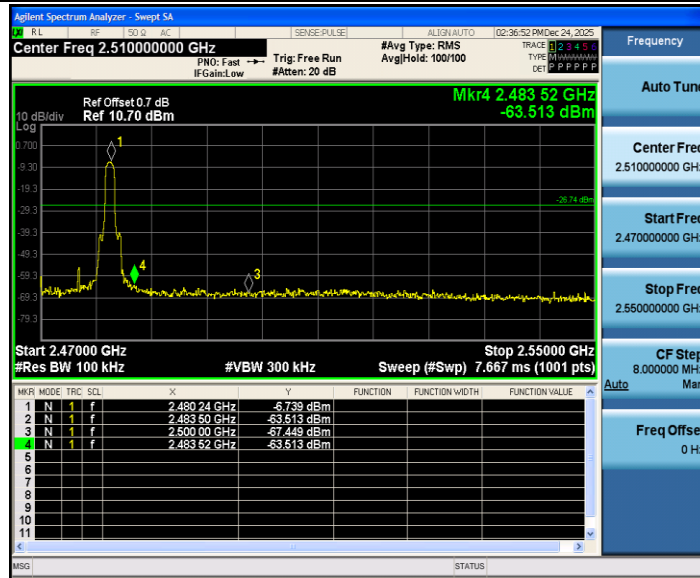
DH5_Ant1_High_Hop_2480



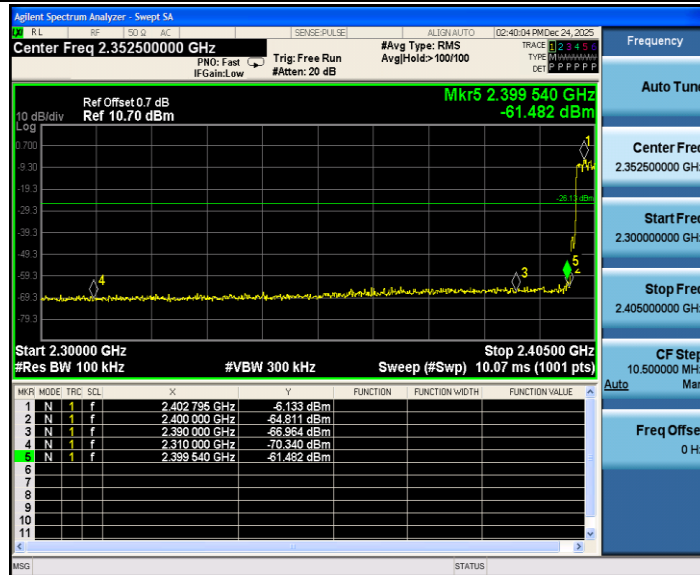
2DH5_Ant1_Low_2402



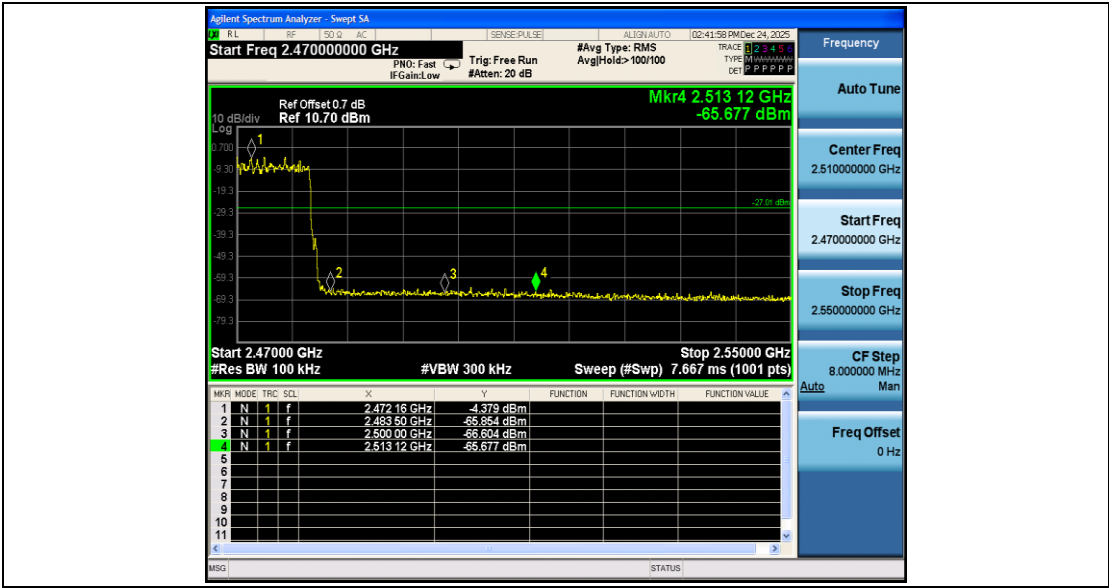
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

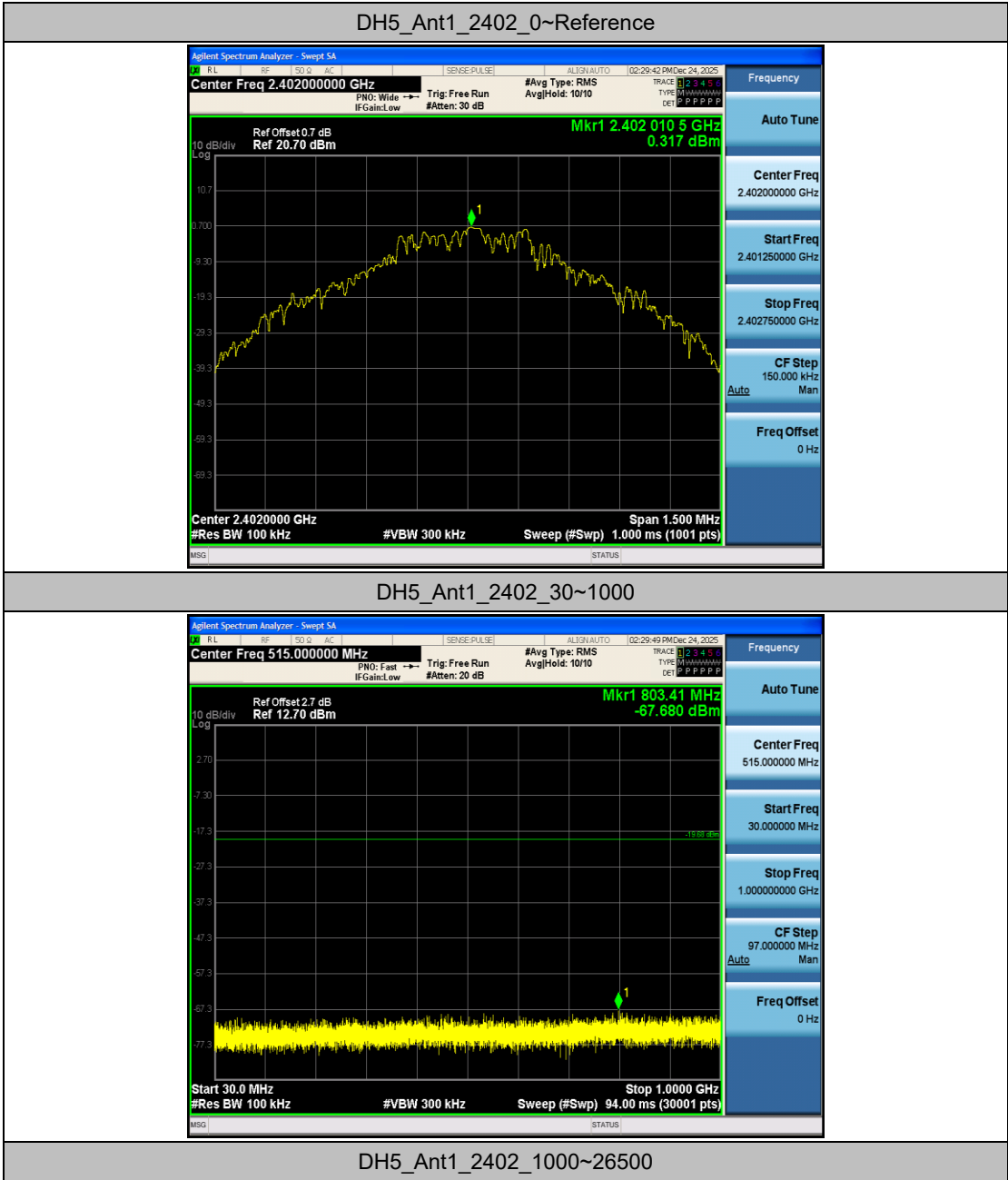


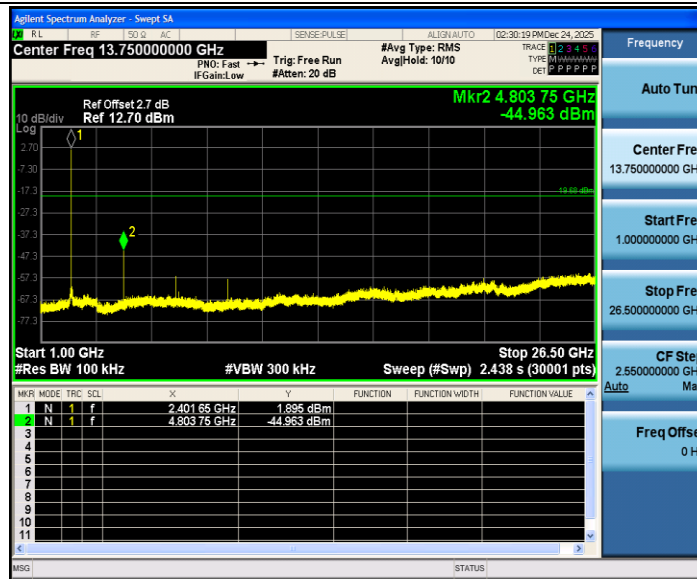
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-67.68	≤-19.68	PASS
			1000~26500	0.32	-44.96	≤-19.68	PASS
		2441	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-67.44	≤-21.15	PASS
			1000~26500	-1.15	-41.08	≤-21.15	PASS
		2480	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-67.8	≤-21.23	PASS
			1000~26500	-1.23	-43.81	≤-21.23	PASS
2DH5	Ant1	2402	Reference	-6.47	-6.47	---	PASS
			30~1000	-6.47	-67.57	≤-26.47	PASS
			1000~26500	-6.47	-51.27	≤-26.47	PASS
		2441	Reference	-4.93	-4.93	---	PASS
			30~1000	-4.93	-67.89	≤-24.93	PASS
			1000~26500	-4.93	-51.58	≤-24.93	PASS
		2480	Reference	-4.73	-4.73	---	PASS
			30~1000	-4.73	-67.58	≤-24.73	PASS
			1000~26500	-4.73	-50.66	≤-24.73	PASS

Test Graphs

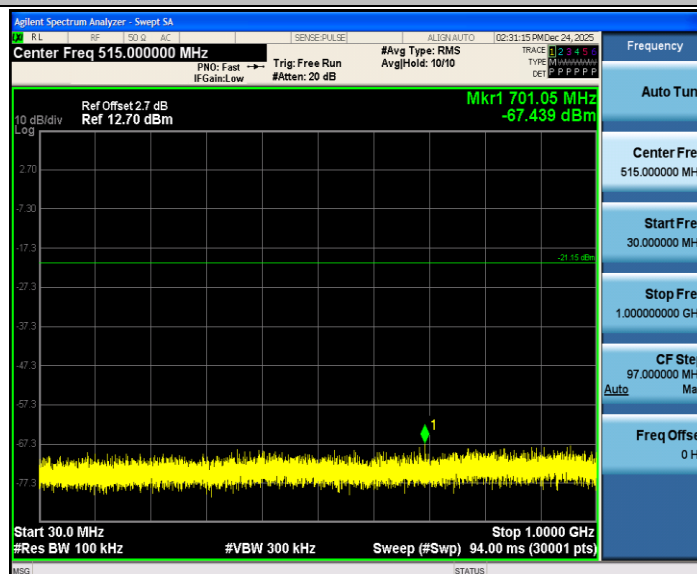




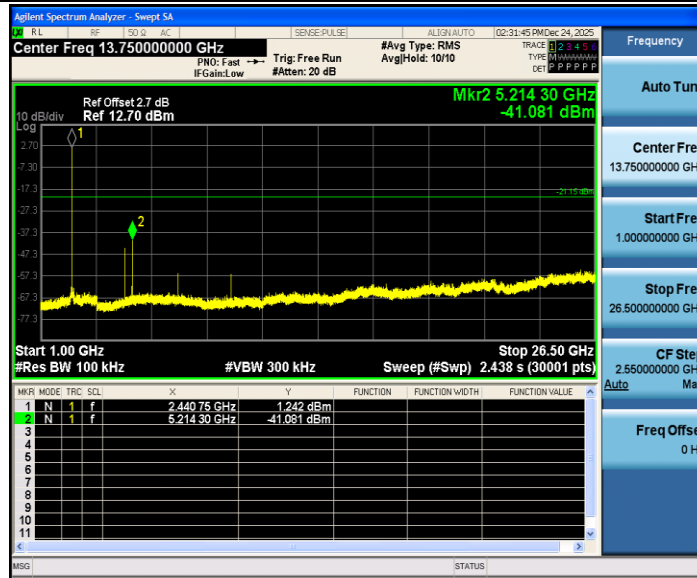
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



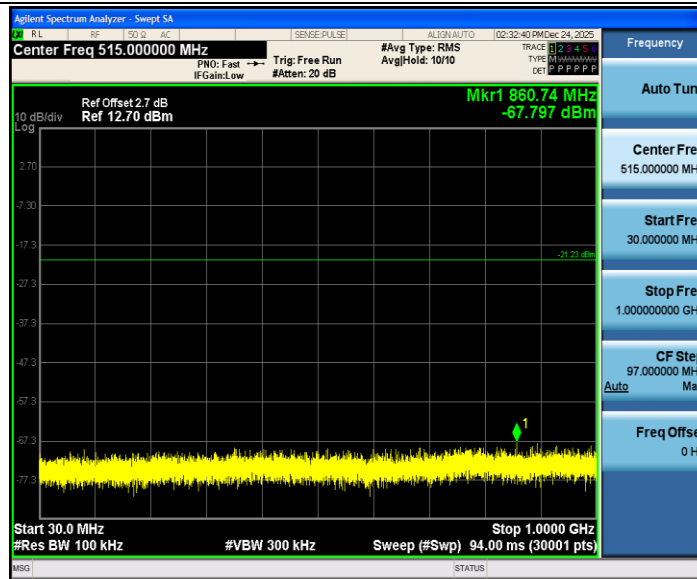
DH5_Ant1_2441_1000~26500



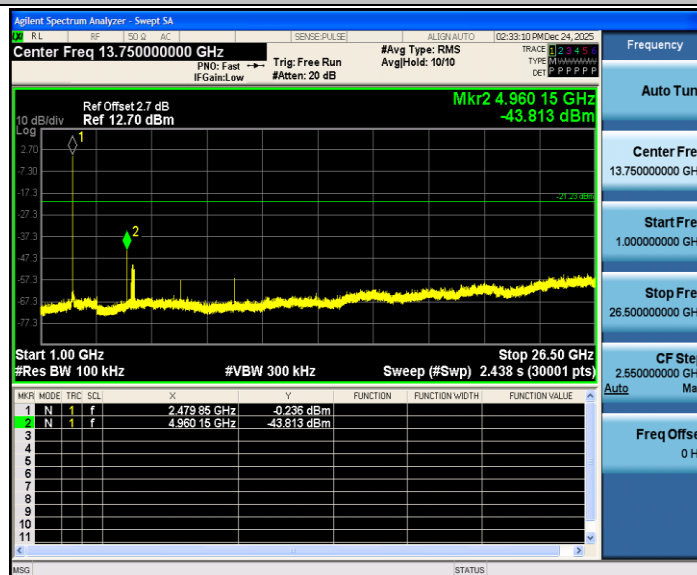
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



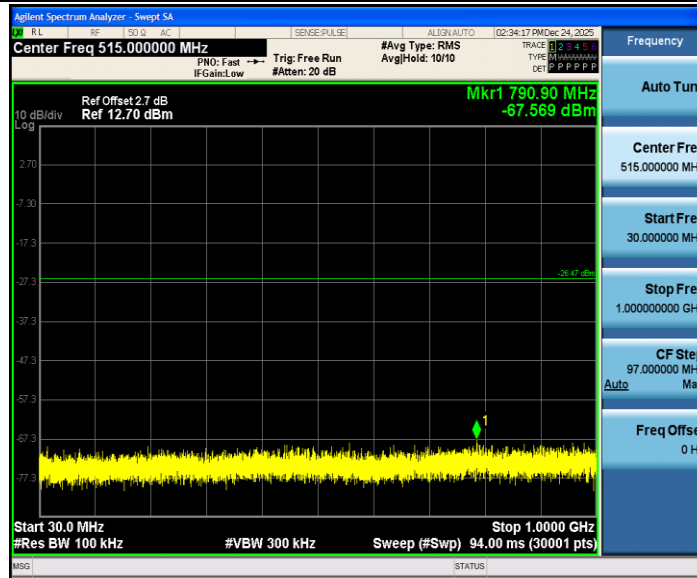
DH5_Ant1_2480_1000~26500



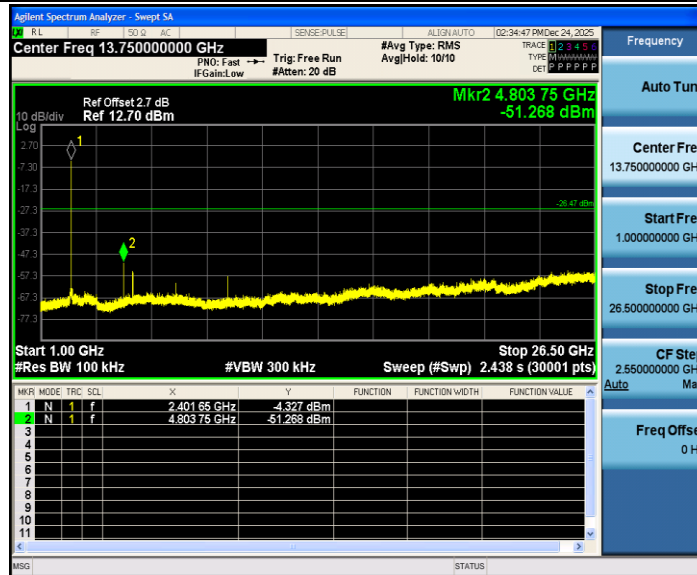
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



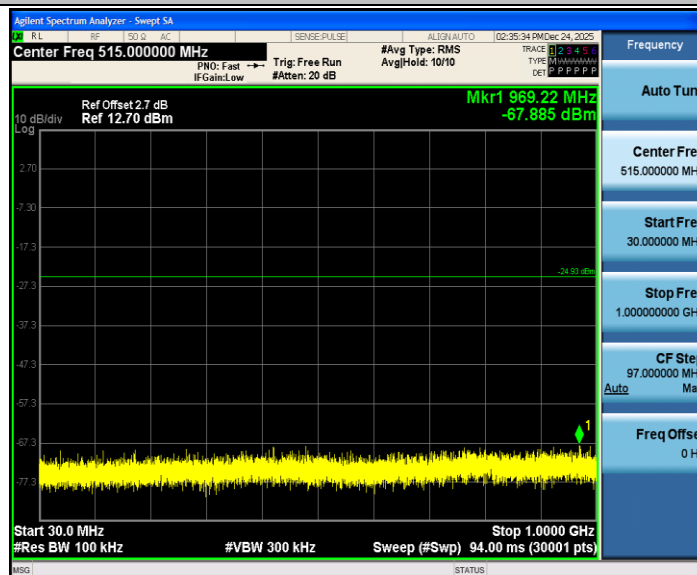
2DH5_Ant1_2402_1000~26500



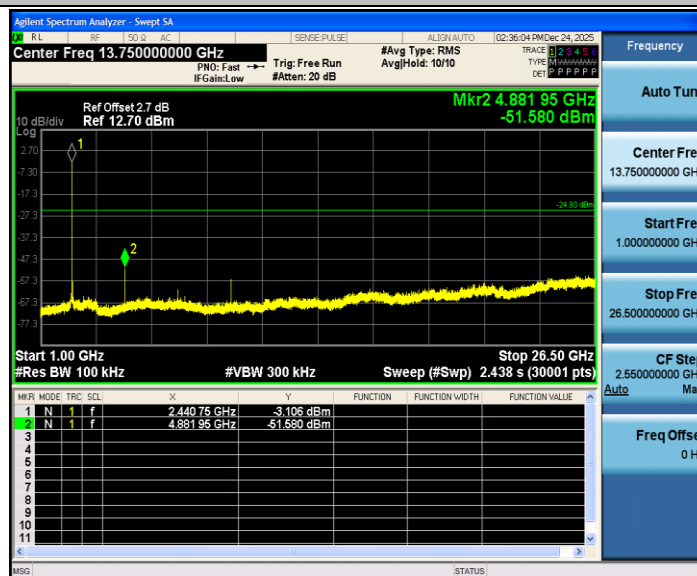
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



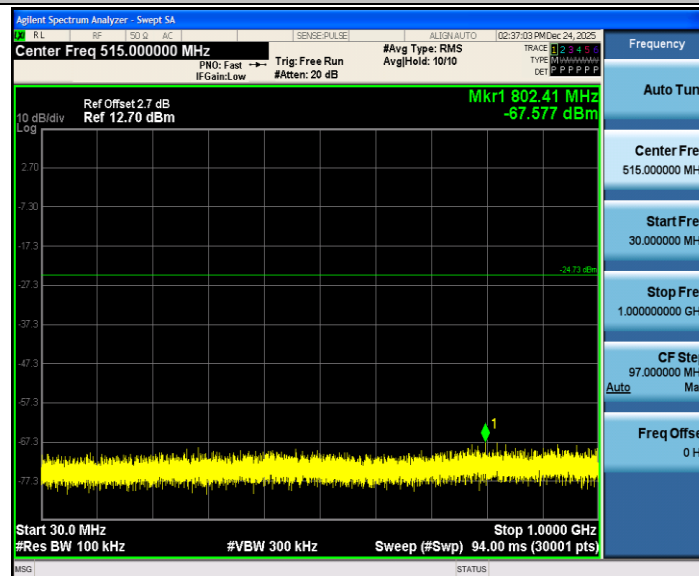
2DH5_Ant1_2441_1000~26500



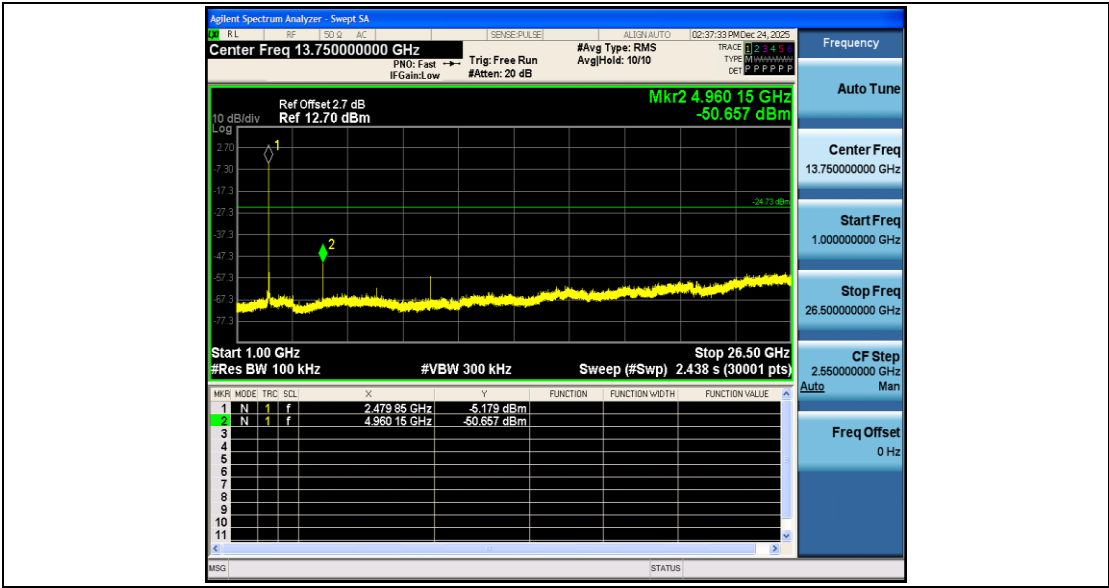
2DH5_Ant1_2480_0~Reference



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	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---

DH5_Ant1_2402

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Ref Offset 0.7 dB

Ref 20.00 dBm

Trig Delay: 200.0 μ s

Trig: Video

#Avg Type: RMS

#Atten: 30 dB

Span 0 Hz

Center 2.402000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz

Sweep 5.000 ms (1001 pts)

Table:

MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t		180.0 μ s			-18.38 dBm
2	A1	1	t	(A)	2.920 ms (A)			-24.38 dB
3	A1	1	t	(A)	3.750 ms (A)			0.21 dB

DH5_Ant1_2441

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 0.7 dB

Ref 20.00 dBm

Trig Delay: 200.0 μ s

Trig: Video

#Avg Type: RMS

#Atten: 30 dB

Span 0 Hz

Center 2.441000000 GHz

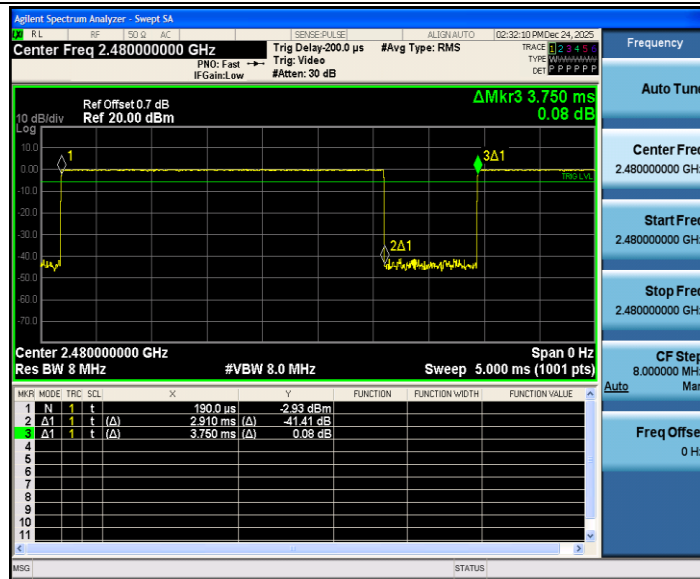
Res BW 8 MHz

#VBW 8.0 MHz

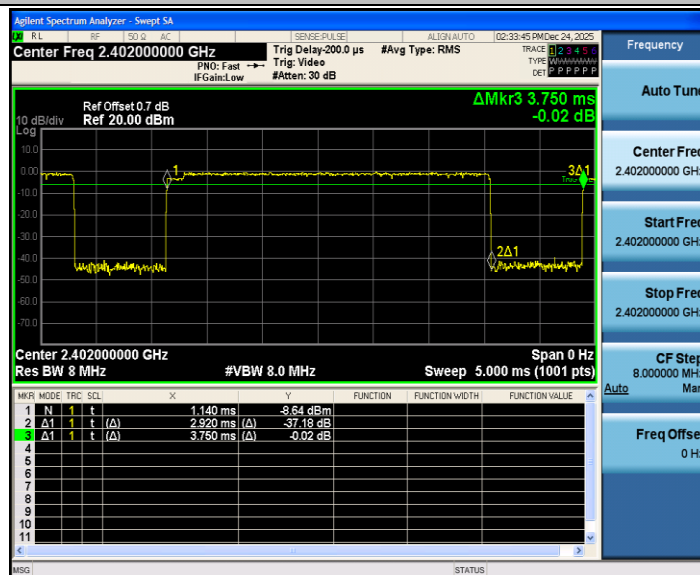
Sweep 5.000 ms (1001 pts)

Table:

MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t		180.0 μ s			-23.61 dBm
2	A1	1	t	(A)	2.920 ms (A)			-21.08 dB
3	A1	1	t	(A)	3.750 ms (A)			-0.12 dB



2DH5_Ant1_2402



2DH5_Ant1_2441

