

FCC Appendix RF Test Data

FCC ID : 2A35W-H96MAXH618

Company: : Shenzhen Haochuangyi Technology Co.,Ltd.

EUT : H96 Max H618

Model Number : H96 Max H618 MPlus

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	0.939	2401.556	2402.495	---	---
		2441	0.945	2440.547	2441.492	---	---
		2480	0.948	2479.553	2480.501	---	---
2DH5	Ant1	2402	1.308	2401.355	2402.663	---	---
		2441	1.326	2440.352	2441.678	---	---
		2480	1.323	2479.346	2480.669	---	---
3DH5	Ant1	2402	1.329	2401.349	2402.678	---	---
		2441	1.311	2440.355	2441.666	---	---
		2480	1.284	2479.379	2480.663	---	---

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

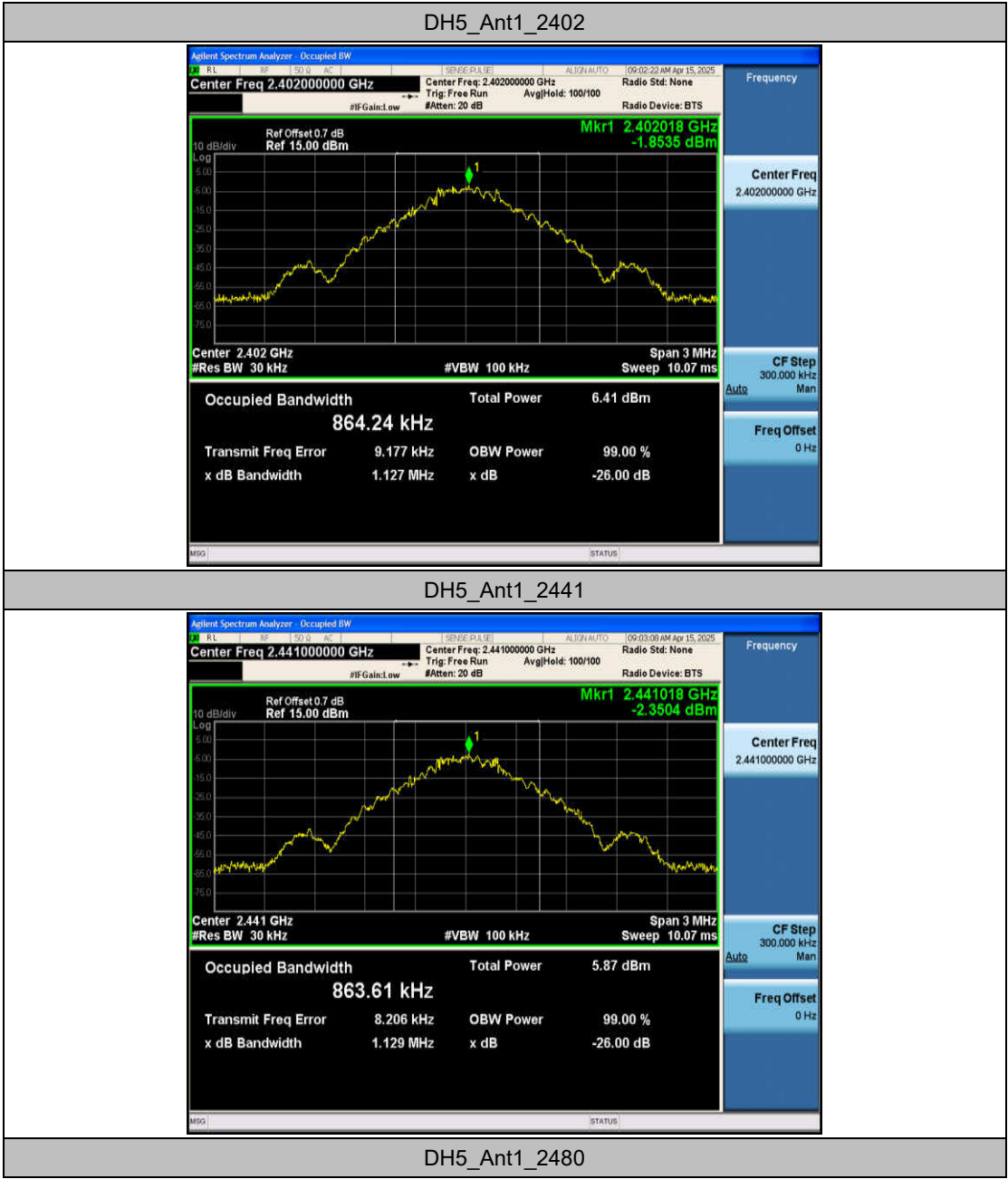


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86424	2401.5771	2402.4413	---	---
		2441	0.86361	2440.5764	2441.4400	---	---
		2480	0.87274	2479.5722	2480.4450	---	---
2DH5	Ant1	2402	1.1859	2401.4171	2402.6030	---	---
		2441	1.1921	2440.4150	2441.6071	---	---
		2480	1.1830	2479.4201	2480.6031	---	---
3DH5	Ant1	2402	1.1841	2401.4169	2402.6010	---	---
		2441	1.1842	2440.4184	2441.6026	---	---
		2480	1.1856	2479.4192	2480.6048	---	---

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	0.41	≤20.97	PASS
		2441	-0.13	≤20.97	PASS
		2480	-0.37	≤20.97	PASS
2DH5	Ant1	2402	-0.43	≤20.97	PASS
		2441	-0.94	≤20.97	PASS
		2480	-1.21	≤20.97	PASS
3DH5	Ant1	2402	-0.45	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-1.17	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥ 0.948	PASS
2DH5	Ant1	Hop	1.204	≥ 0.884	PASS
3DH5	Ant1	Hop	1.316	≥ 0.886	PASS

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.442000000 GHz

Ref Offset 0.7 dB
Ref 10.70 dBm

ΔMkr2 1.000 MHz
-0.100 dB

Start 2.4400000 GHz
#Res BW 300 kHz
#VBW 300 kHz
Sweep (#Swp) 1.000 ms (1001 pts)

Stop 2.4440000 GHz

Frequency

Auto Tune

Center Freq
2.442000000 GHz

Start Freq
2.440000000 GHz

Stop Freq
2.444000000 GHz

CF Step
400.000 kHz
Man

Freq Offset
0 Hz

2DH5_Ant1_Hop

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.442000000 GHz

Ref Offset 0.7 dB
Ref 10.70 dBm

ΔMkr2 1.204 MHz
-0.440 dB

Start 2.4400000 GHz
#Res BW 300 kHz
#VBW 300 kHz
Sweep (#Swp) 1.000 ms (1001 pts)

Stop 2.4440000 GHz

Frequency

Auto Tune

Center Freq
2.442000000 GHz

Start Freq
2.440000000 GHz

Stop Freq
2.444000000 GHz

CF Step
400.000 kHz
Man

Freq Offset
0 Hz

3DH5_Ant1_Hop

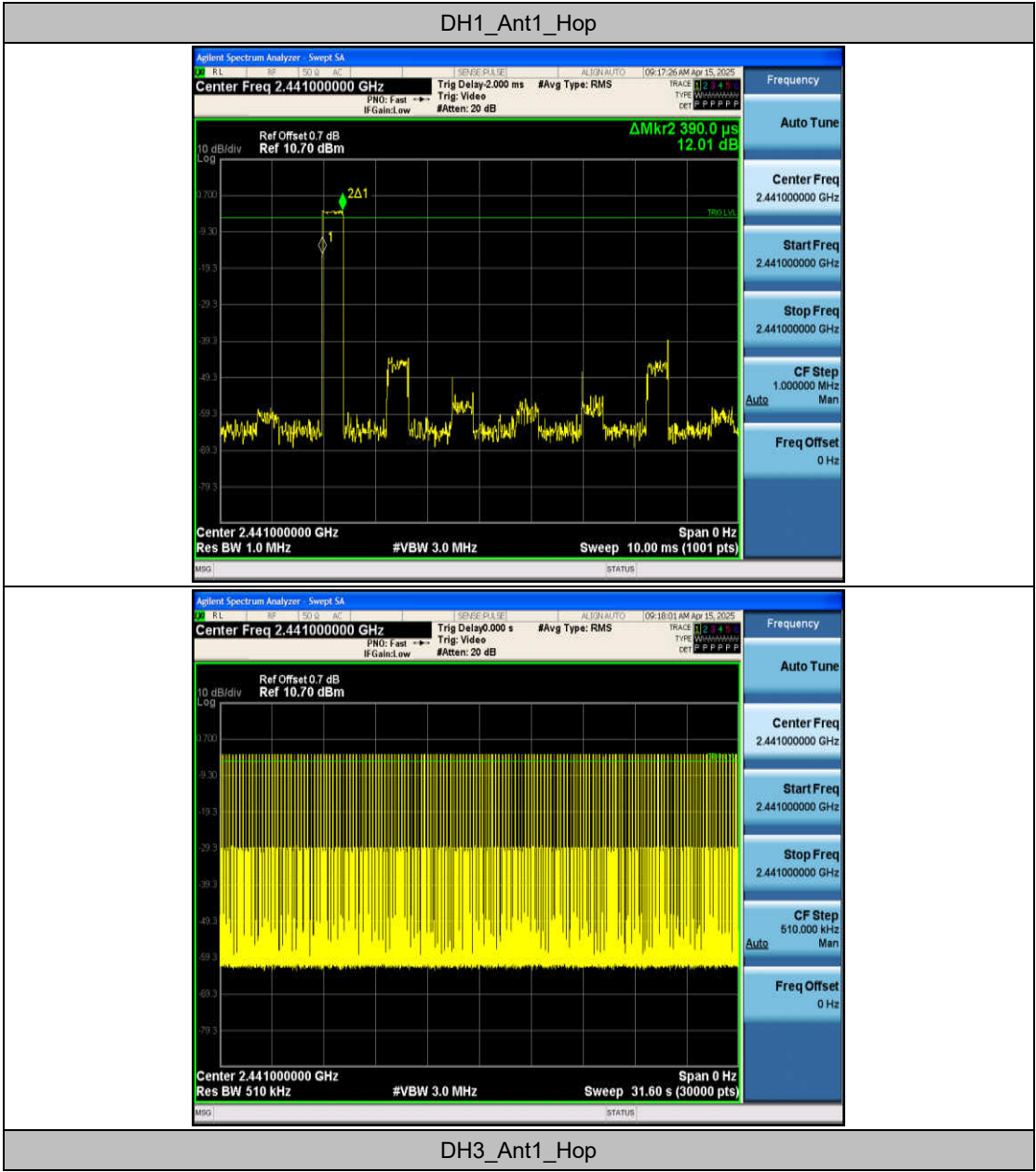


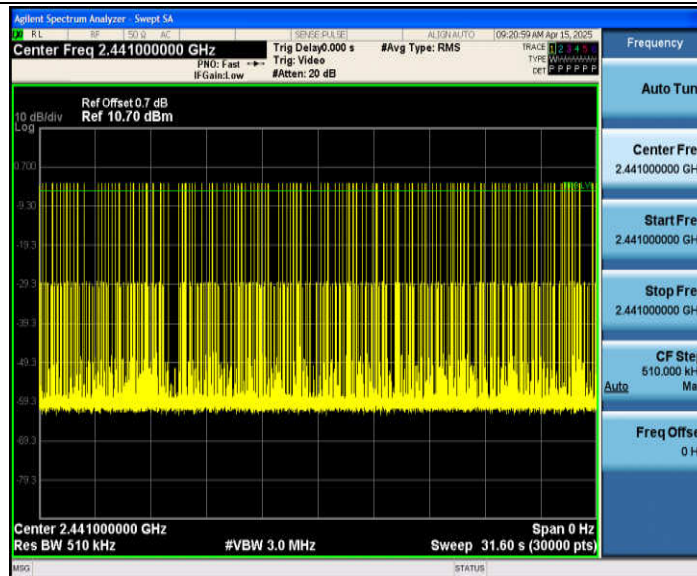
Appendix E: Time of occupancy

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	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.890	106	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	166	0.272	≤0.4	PASS
2DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS
3DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
3DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS

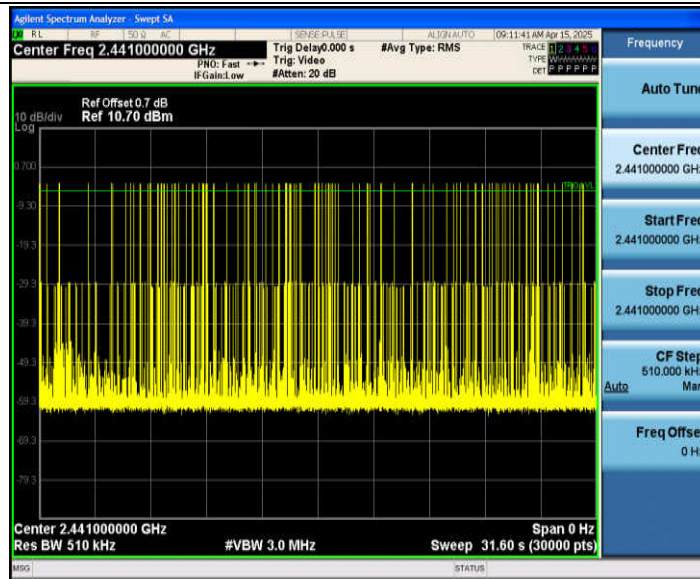
Test Graphs



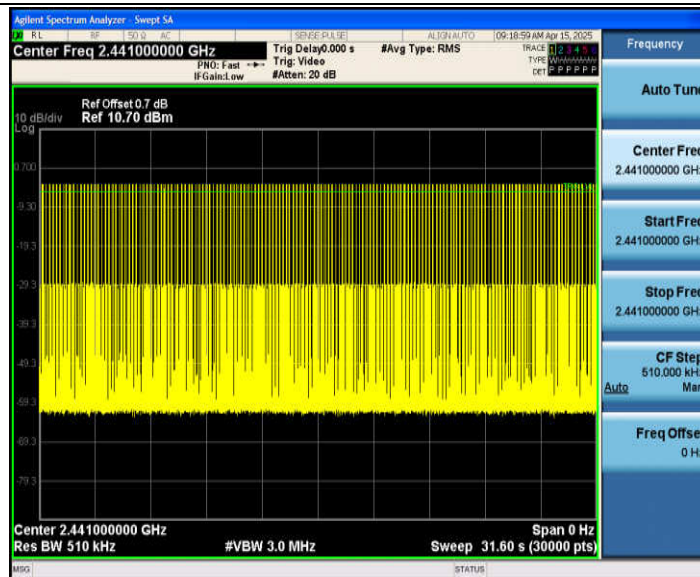


DH5_Ant1_Hop

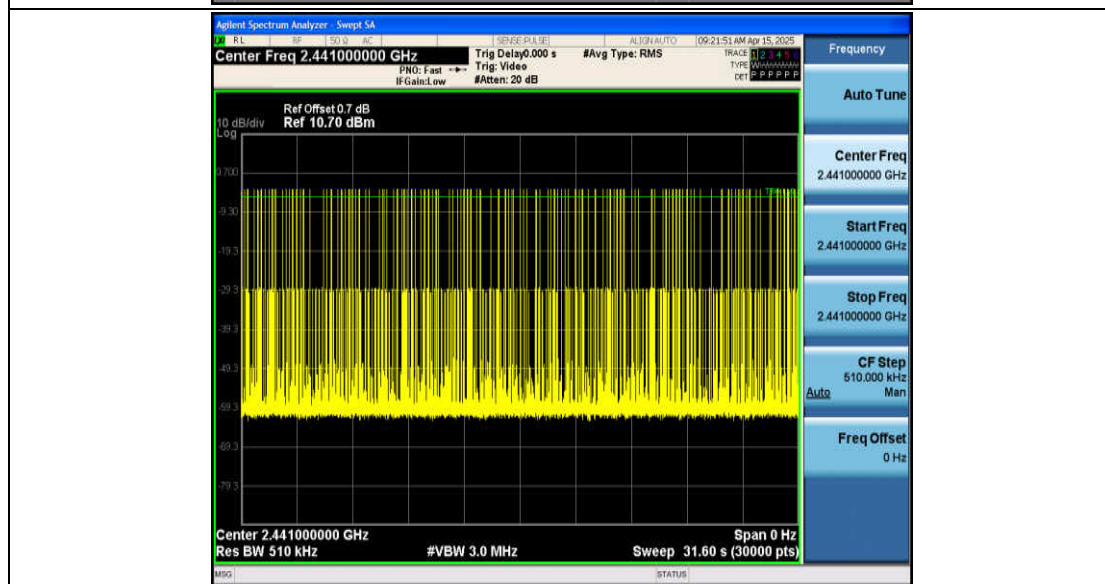




2DH1_Ant1_Hop

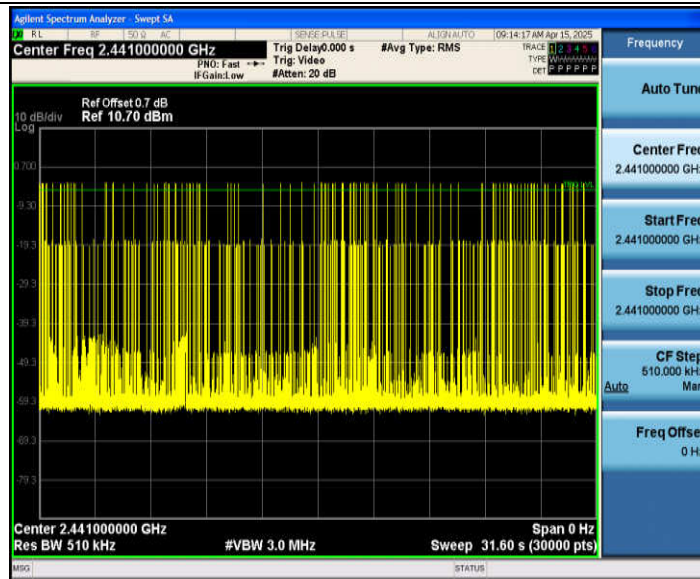


2DH3_Ant1_Hop

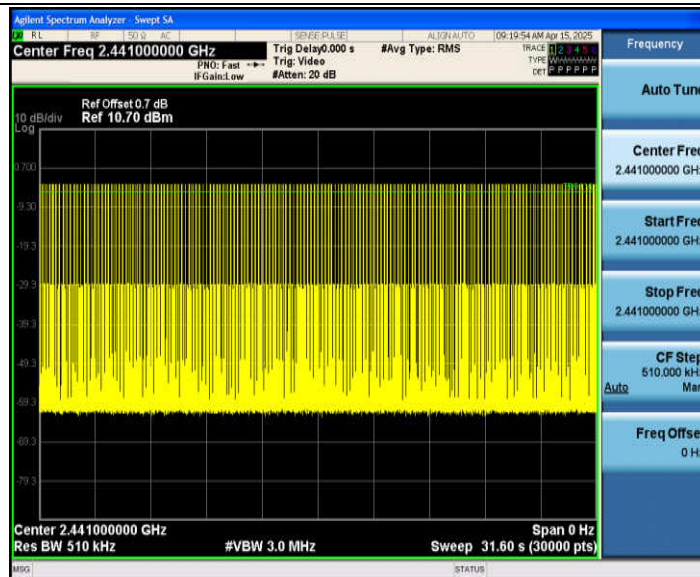
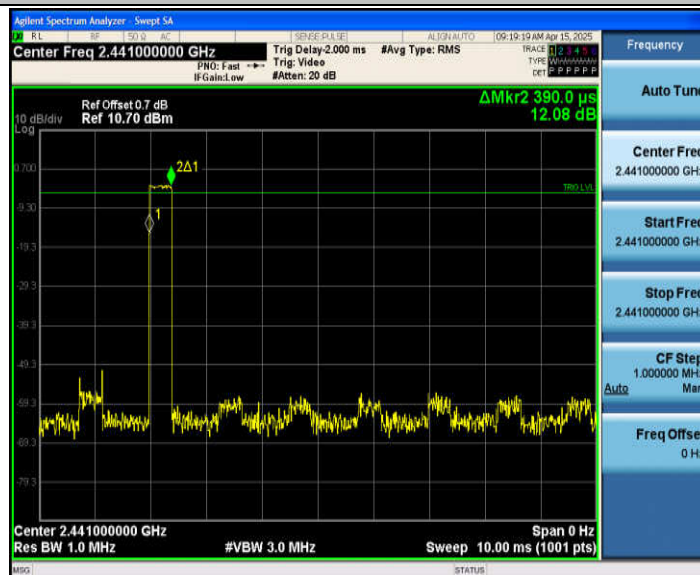


2DH5_Ant1_Hop

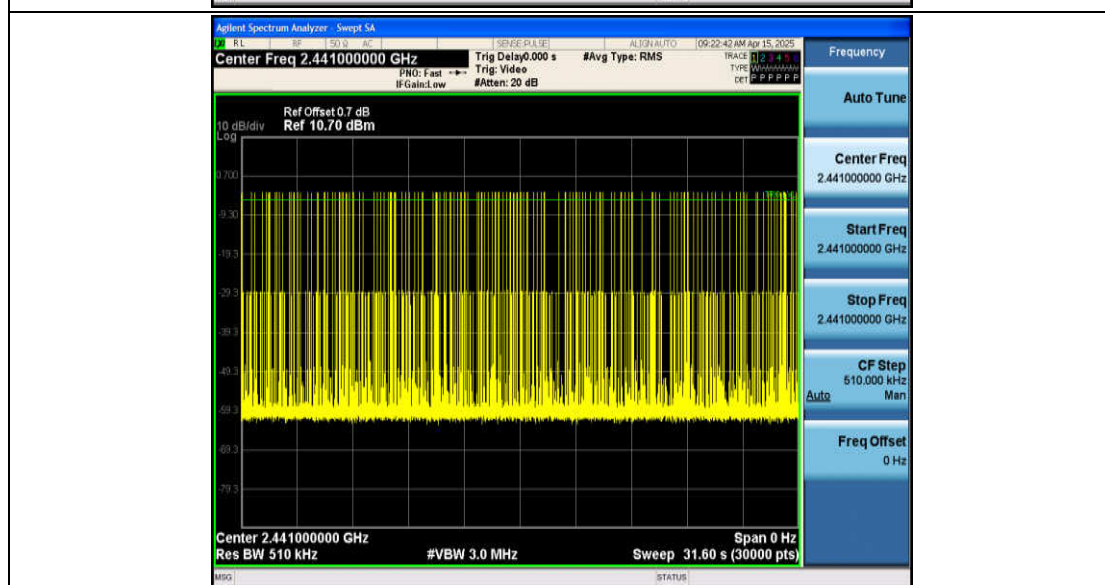




3DH1_Ant1_Hop

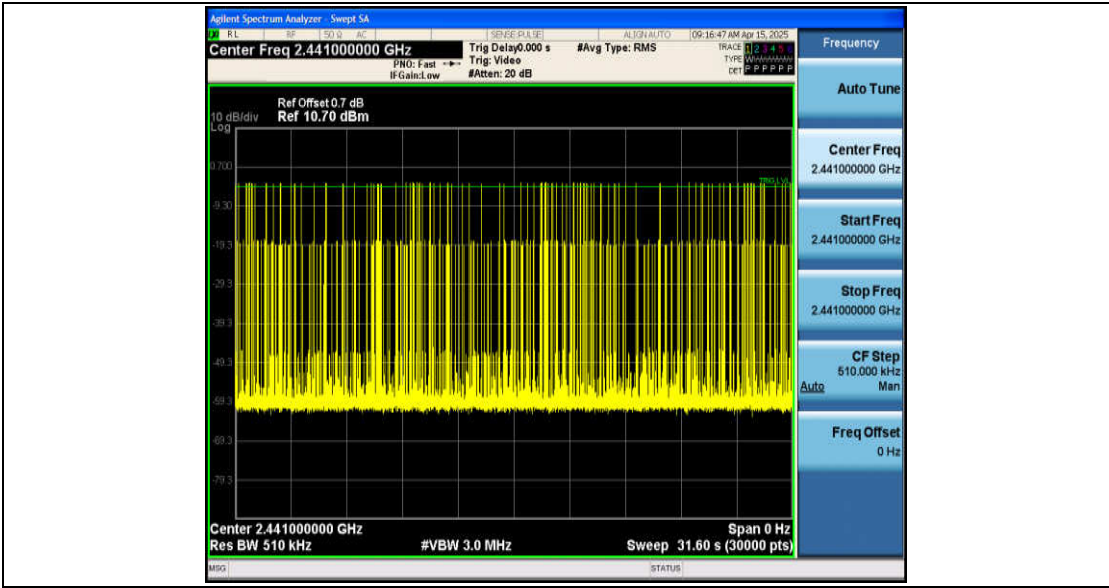


3DH3_Ant1_Hop



3DH5_Ant1_Hop



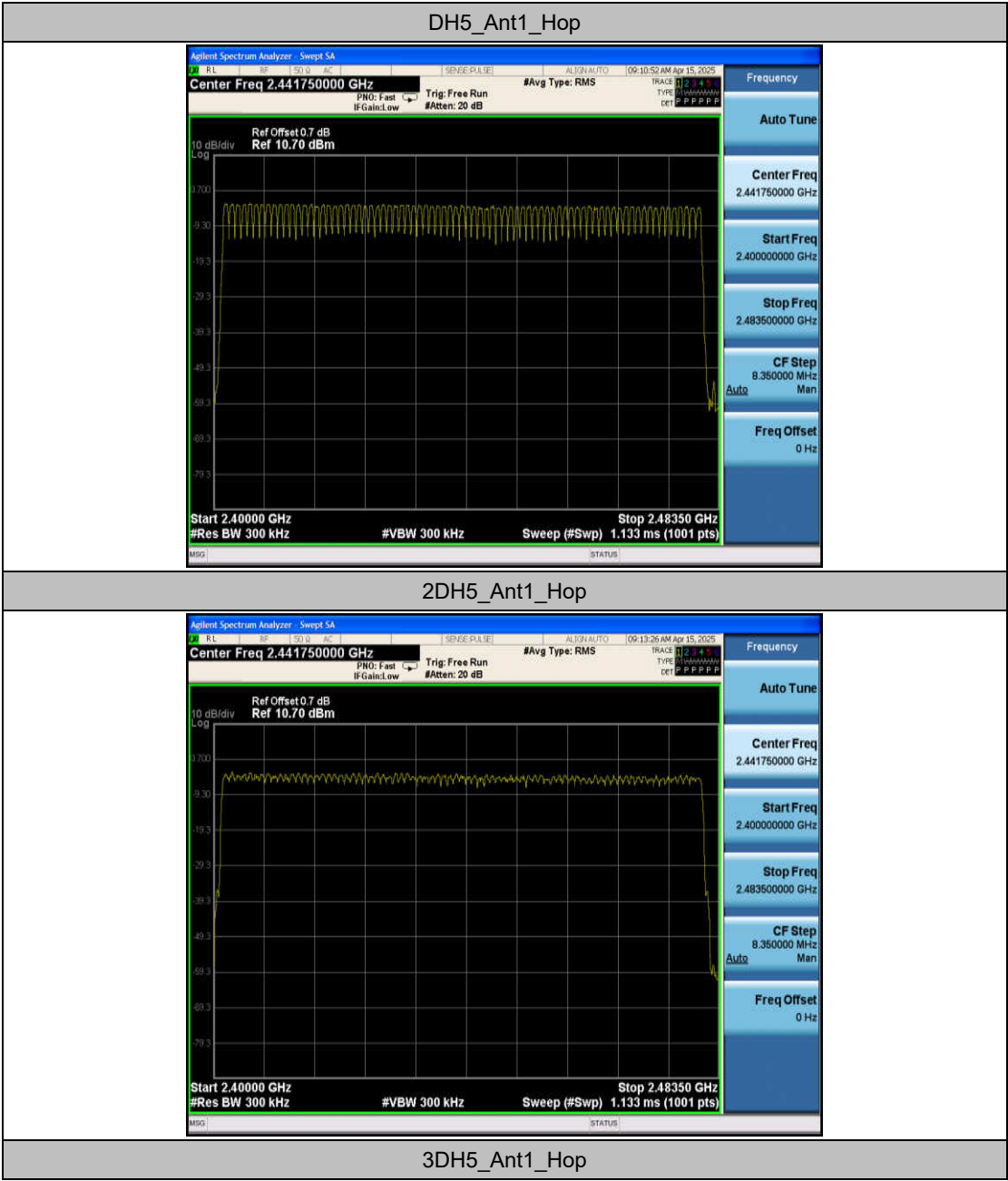


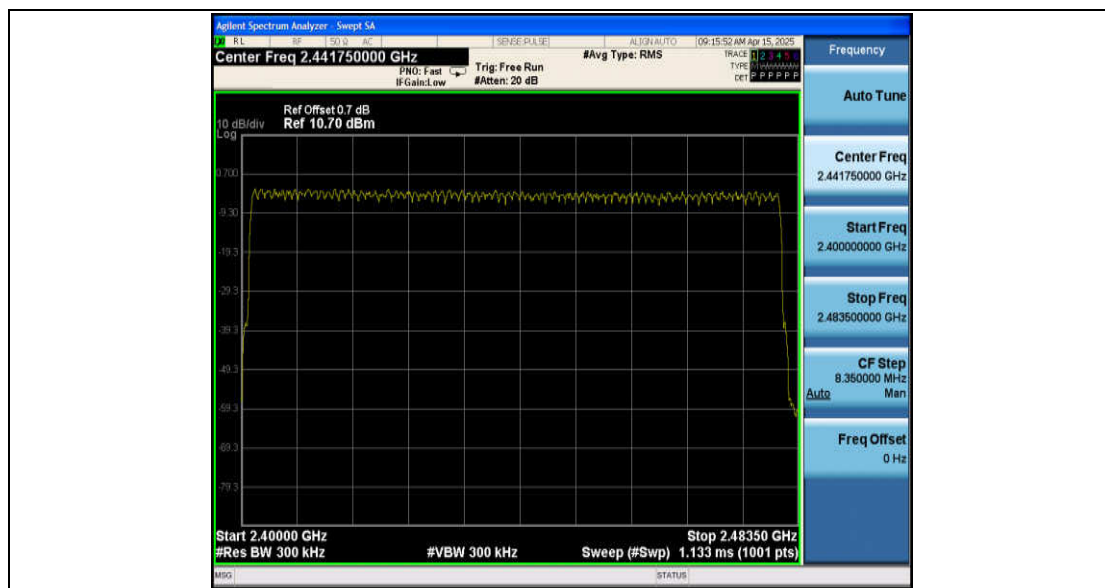
Appendix F: Number of hopping channels

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

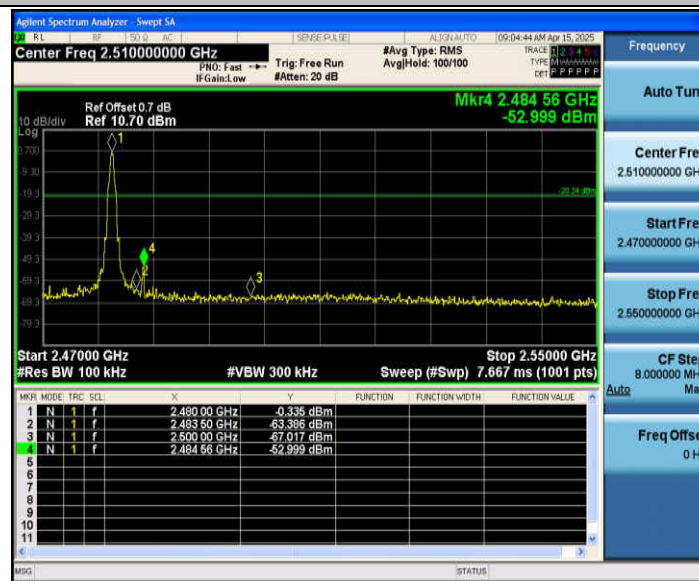
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.51	-57.88	≤-20.51	PASS
		High	2480	-0.34	-53	≤-20.34	PASS
		Low	Hop_2402	-3.64	-61.56	≤-23.64	PASS
		High	Hop_2480	-3.97	-64.56	≤-23.97	PASS
2DH5	Ant1	Low	2402	-4.54	-56.78	≤-24.54	PASS
		High	2480	-4.04	-63.81	≤-24.04	PASS
		Low	Hop_2402	-5.72	-62.5	≤-25.72	PASS
		High	Hop_2480	-5.12	-63.99	≤-25.12	PASS
3DH5	Ant1	Low	2402	-4.44	-61.2	≤-24.44	PASS
		High	2480	-6.93	-55.74	≤-26.93	PASS
		Low	Hop_2402	-5.91	-58.82	≤-25.91	PASS
		High	Hop_2480	-4.70	-64.12	≤-24.7	PASS

Test Graphs

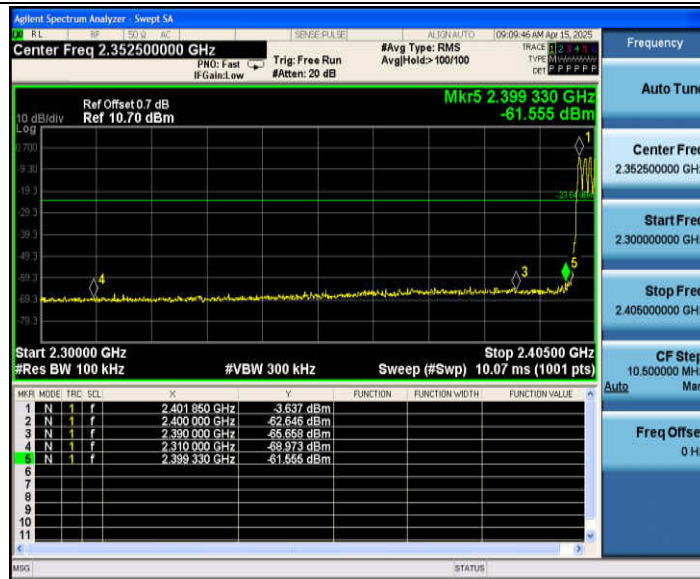
DH5_Ant1_Low_2402



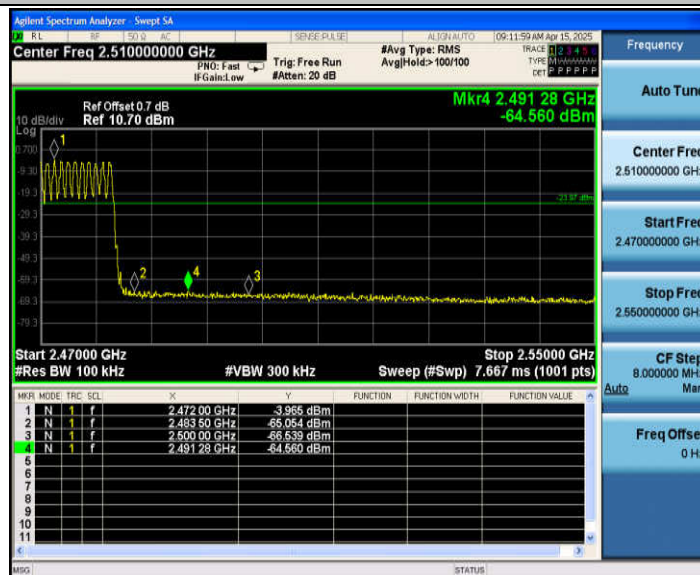
DH5_Ant1_High_2480



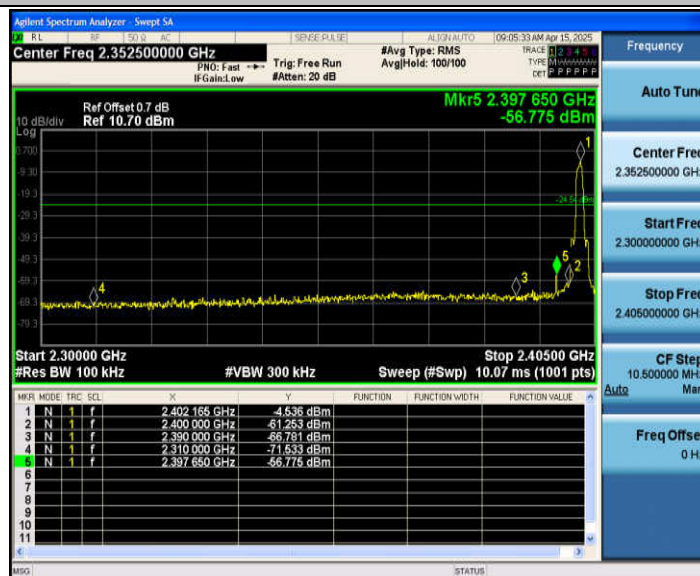
DH5_Ant1_Low_Hop_2402



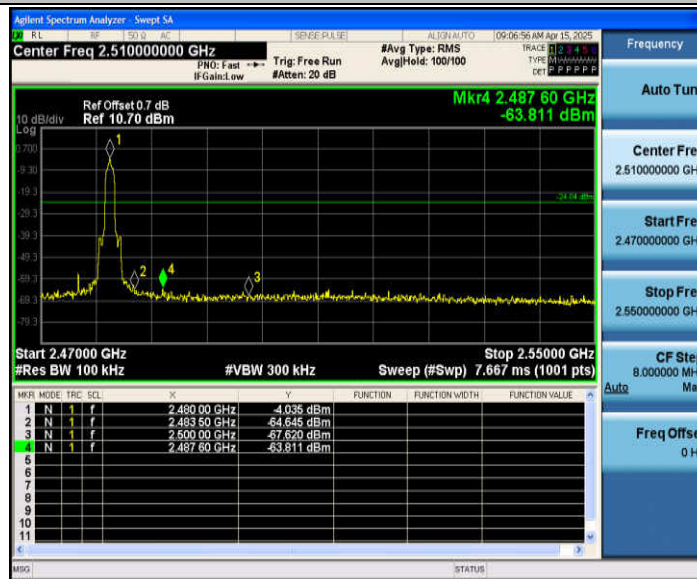
DH5_Ant1_High_Hop_2480



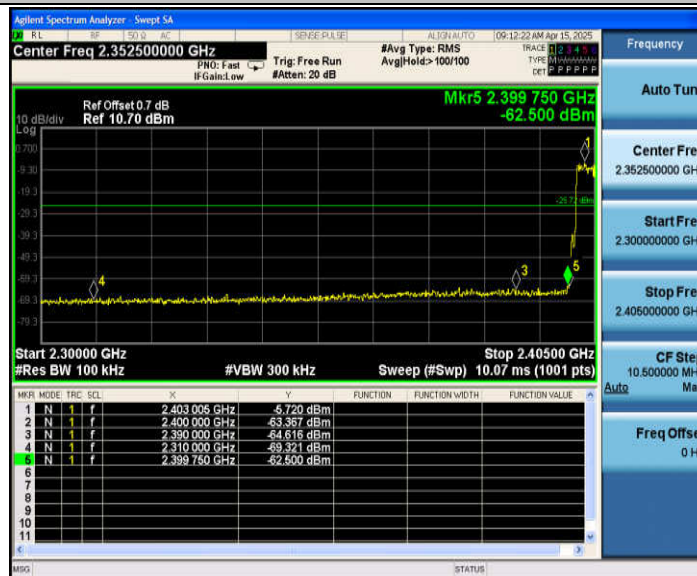
2DH5_Ant1_Low_2402



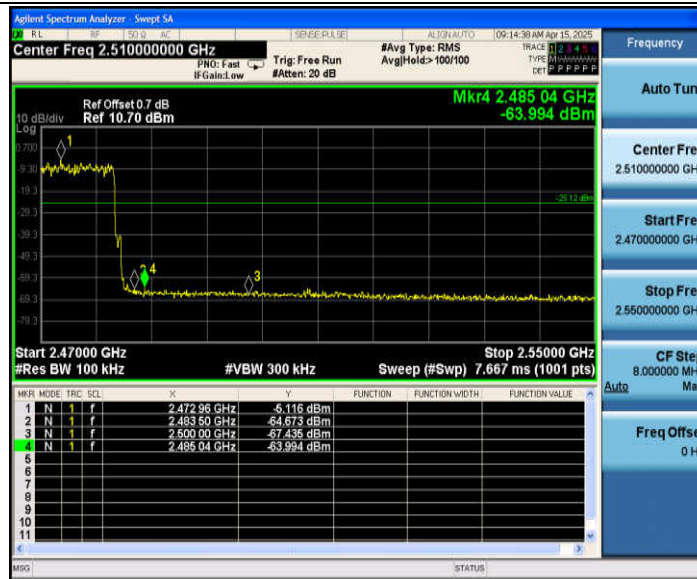
2DH5_Ant1_High_2480



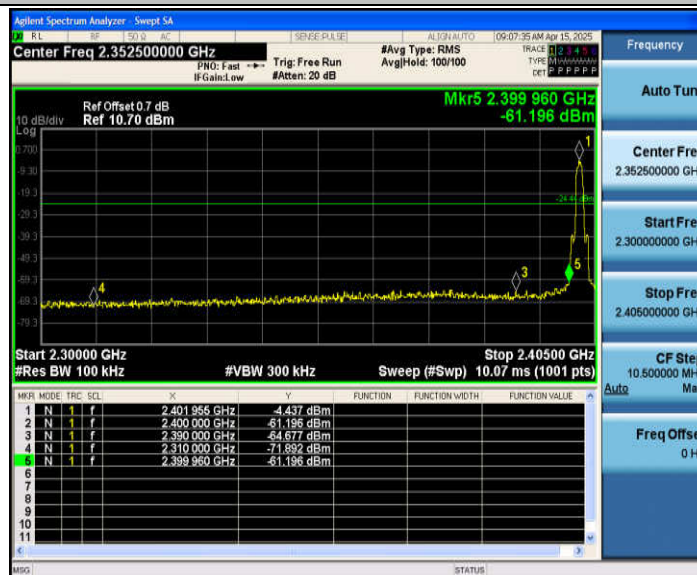
2DH5_Ant1_Low_Hop_2402



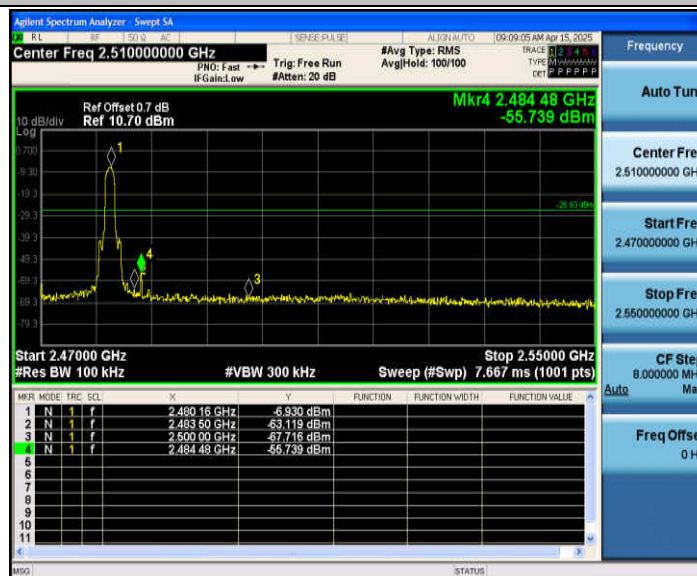
2DH5_Ant1_High_Hop_2480



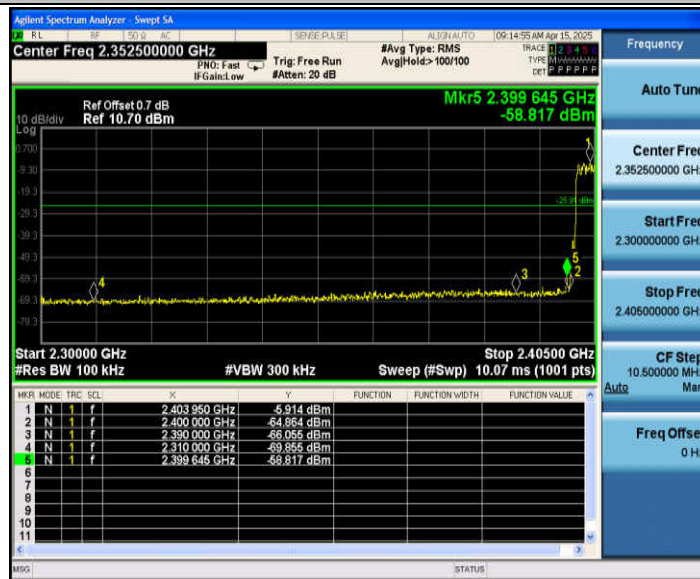
3DH5_Ant1_Low_2402



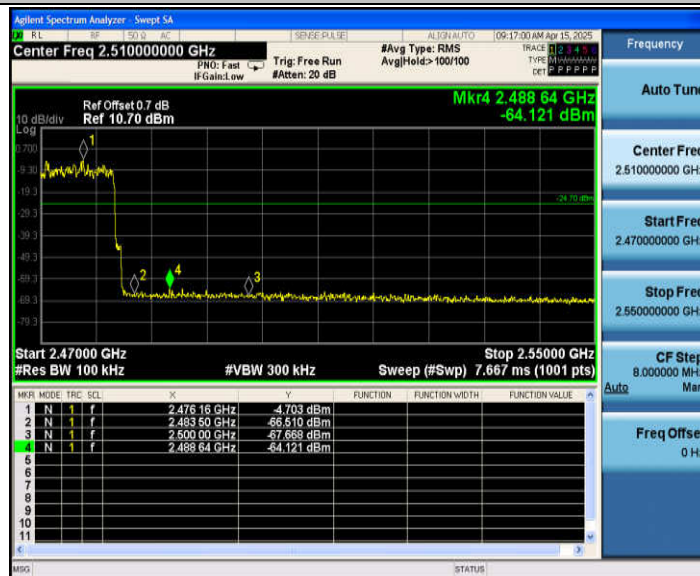
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

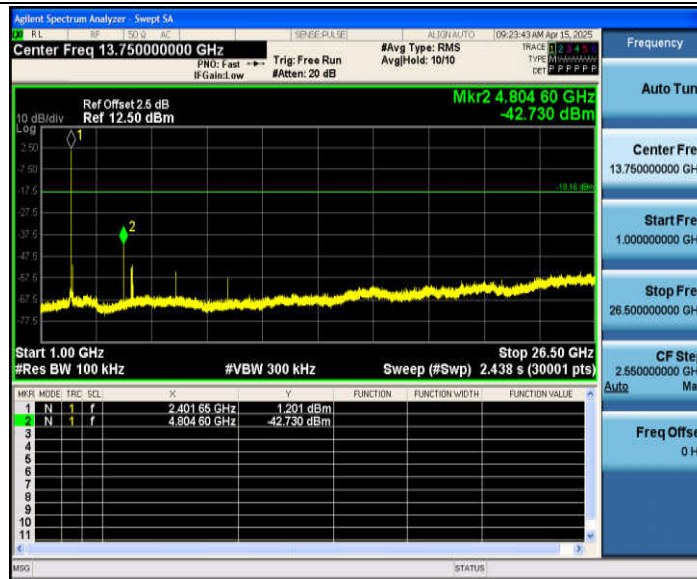
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-68.48	≤-18.16	PASS
			1000~26500	1.84	-42.73	≤-18.16	PASS
		2441	Reference	0.49	0.49	---	PASS
			30~1000	0.49	-53.53	≤-19.51	PASS
			1000~26500	0.49	-43.29	≤-19.51	PASS
		2480	Reference	0.90	0.90	---	PASS
			30~1000	0.90	-58.13	≤-19.1	PASS
			1000~26500	0.90	-44.53	≤-19.1	PASS
2DH5	Ant1	2402	Reference	-4.25	-4.25	---	PASS
			30~1000	-4.25	-67.15	≤-24.25	PASS
			1000~26500	-4.25	-44.29	≤-24.25	PASS
		2441	Reference	-2.46	-2.46	---	PASS
			30~1000	-2.46	-66.64	≤-22.46	PASS
			1000~26500	-2.46	-48.64	≤-22.46	PASS
		2480	Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-68.8	≤-25.6	PASS
			1000~26500	-5.60	-41.65	≤-25.6	PASS
3DH5	Ant1	2402	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-68.25	≤-21.65	PASS
			1000~26500	-1.65	-41.11	≤-21.65	PASS
		2441	Reference	-4.09	-4.09	---	PASS
			30~1000	-4.09	-67.93	≤-24.09	PASS
			1000~26500	-4.09	-43.31	≤-24.09	PASS
		2480	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-68.44	≤-22.15	PASS
			1000~26500	-2.15	-49.04	≤-22.15	PASS

Test Graphs

DH5_Ant1_2402_0~Reference

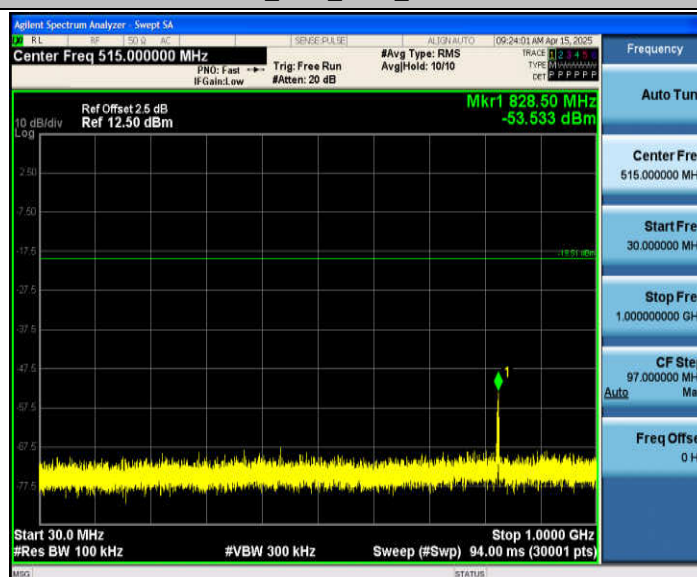




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



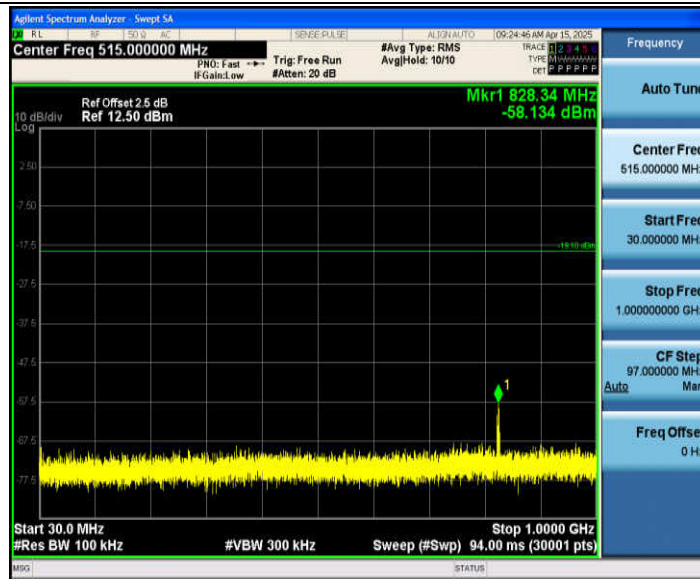
DH5_Ant1_2441_1000~26500



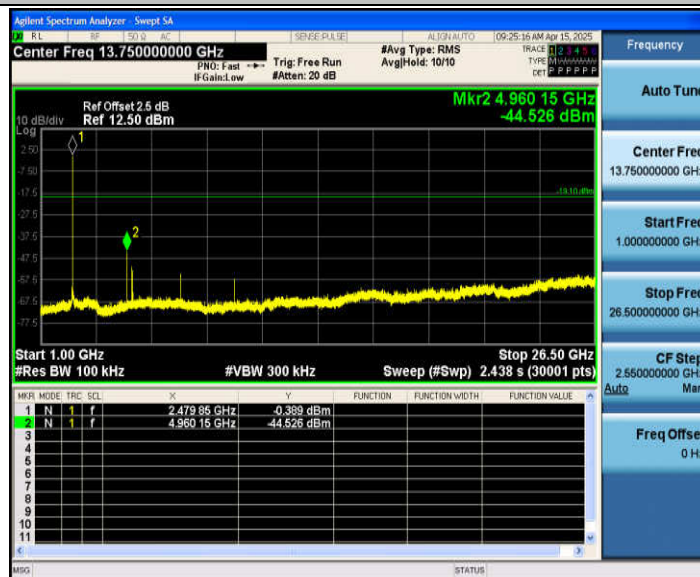
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



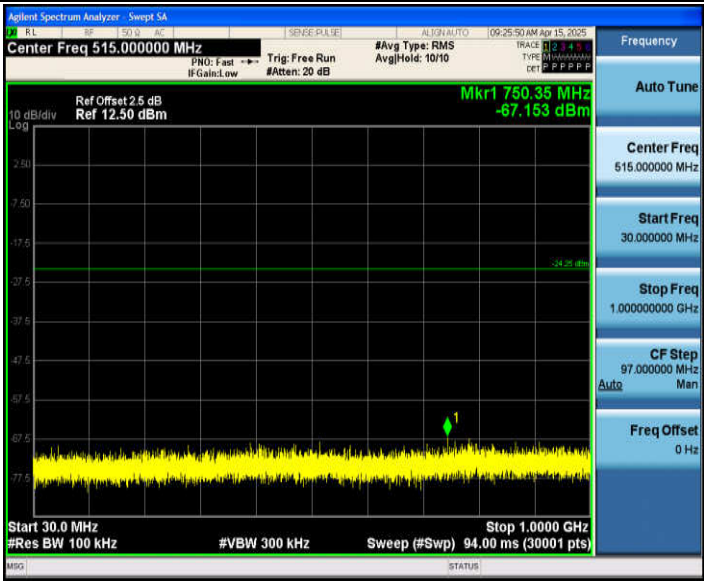
DH5_Ant1_2480_1000~26500



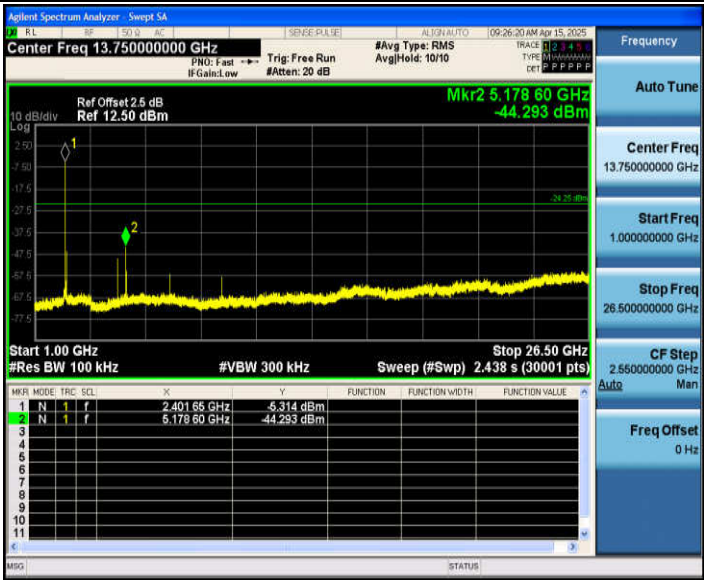
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



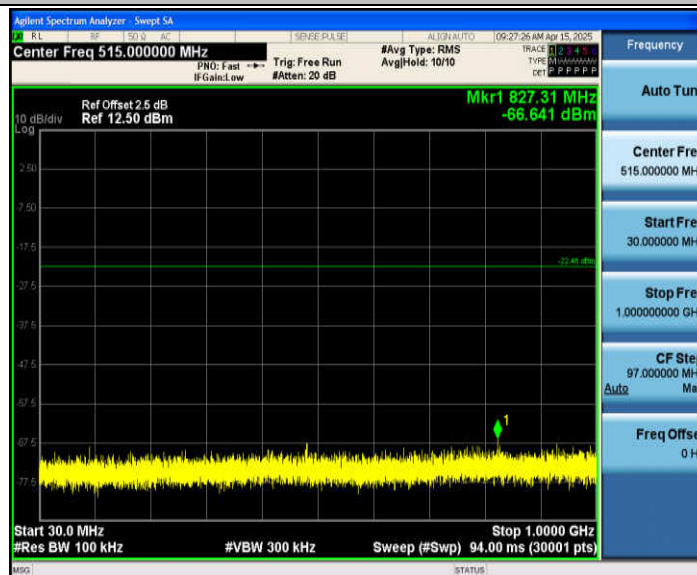
2DH5_Ant1_2402_1000~26500



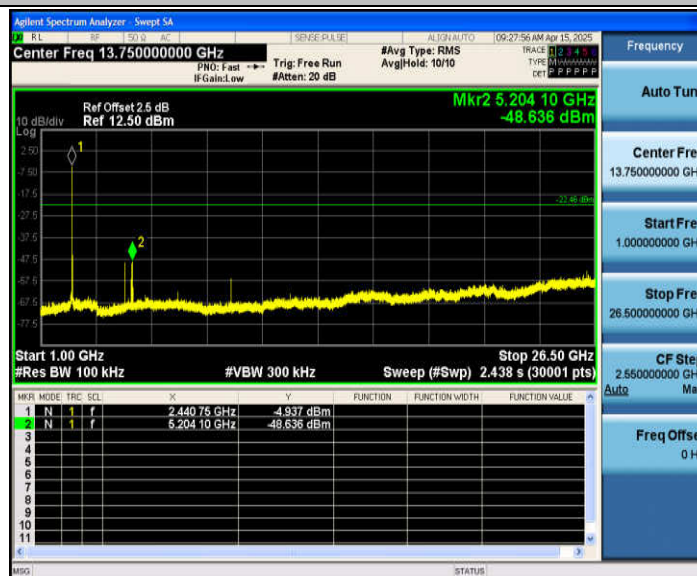
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



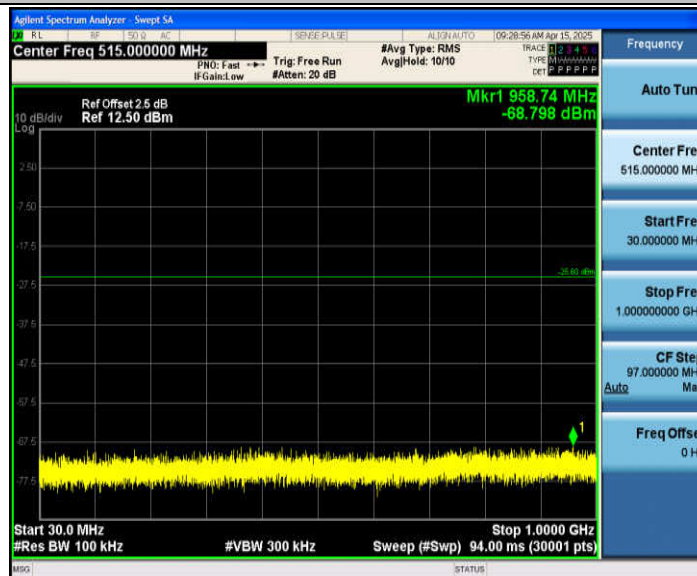
2DH5_Ant1_2441_1000~26500



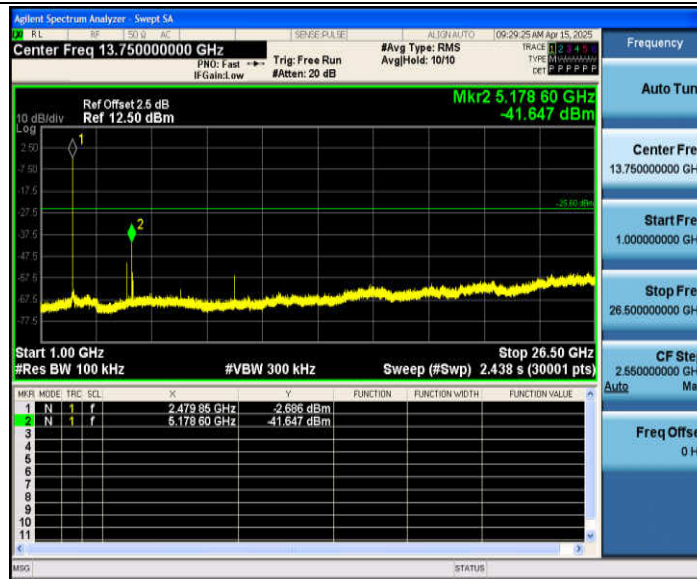
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



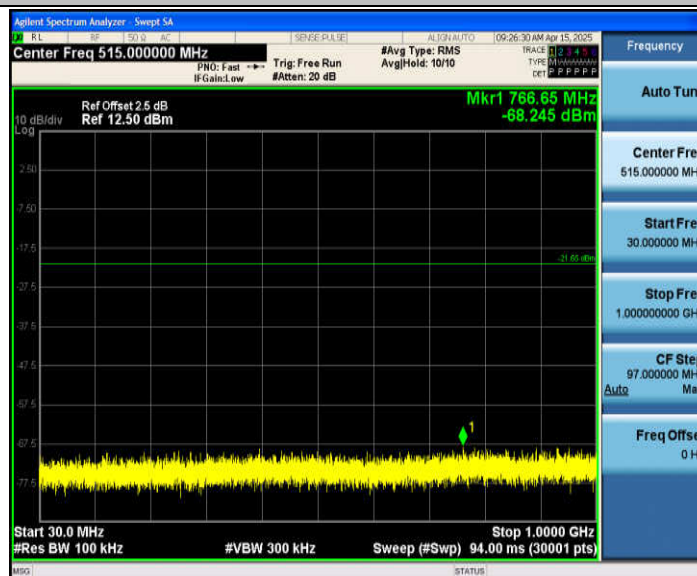
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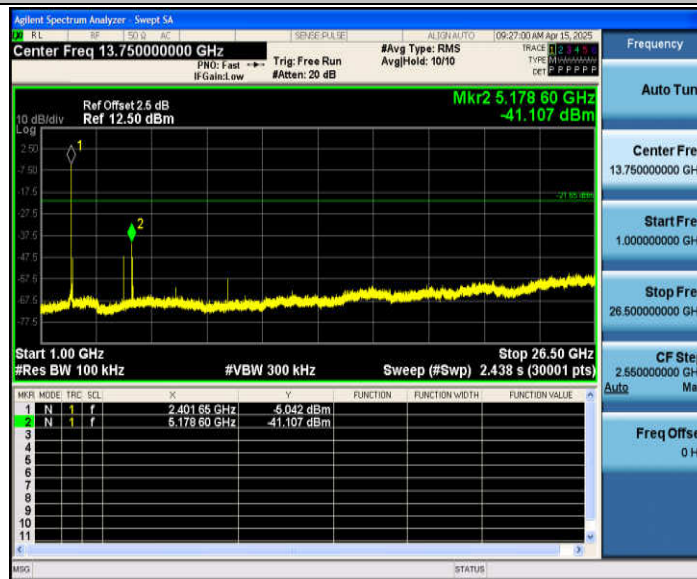
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3DH5_Ant1_2402_30~1000



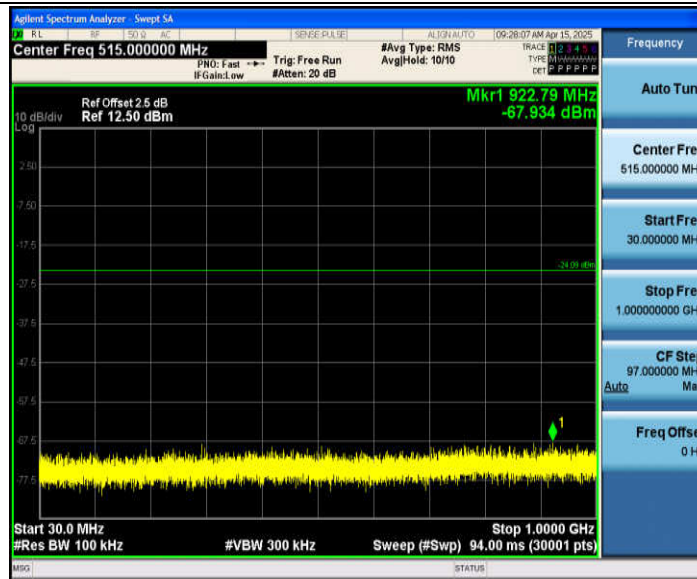
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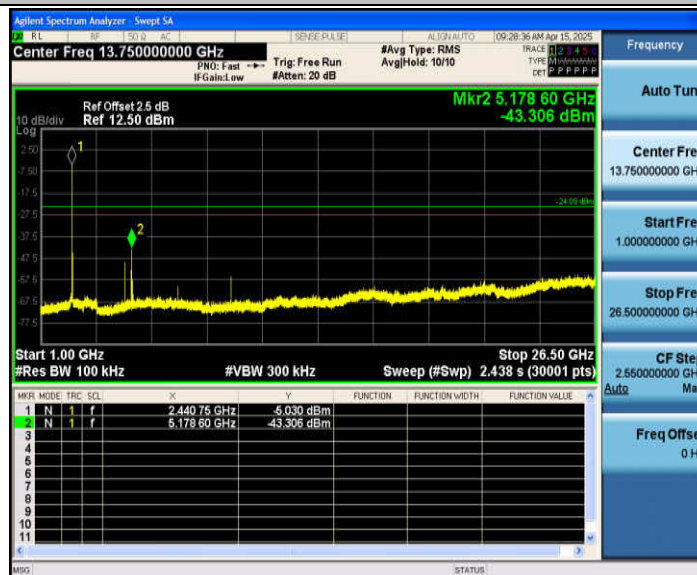
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3DH5_Ant1_2441_30~1000



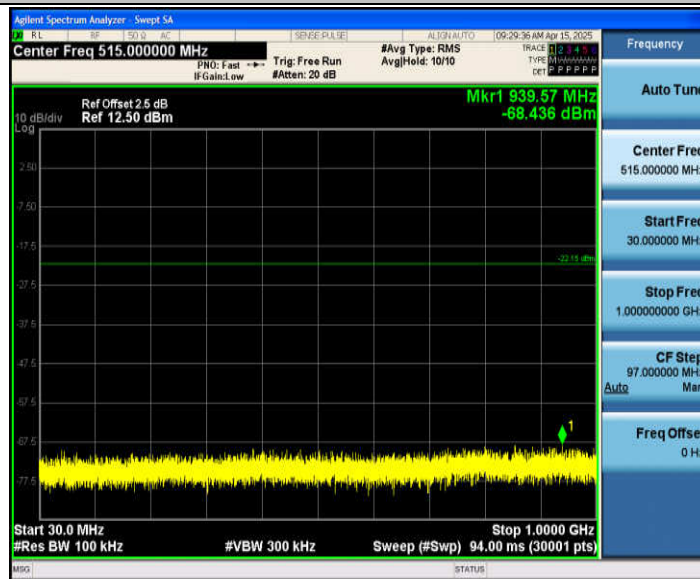
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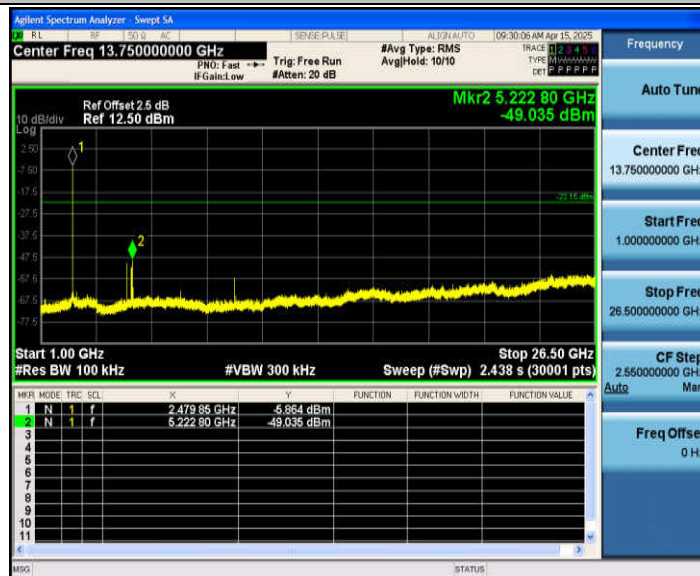
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Appendix I: Duty Cycle

Test Result

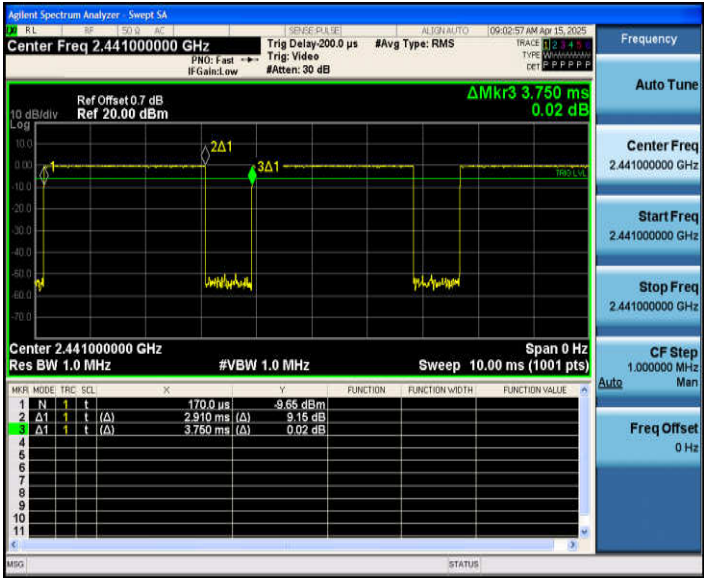
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
3DH5	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

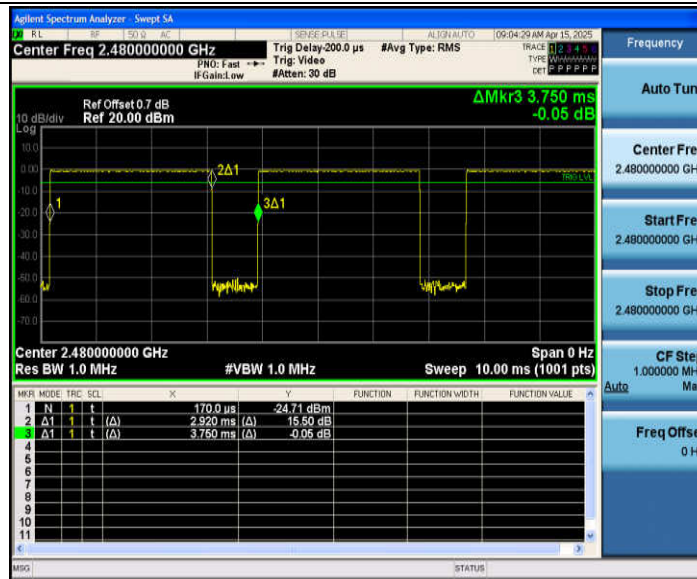
DH5_Ant1_2402



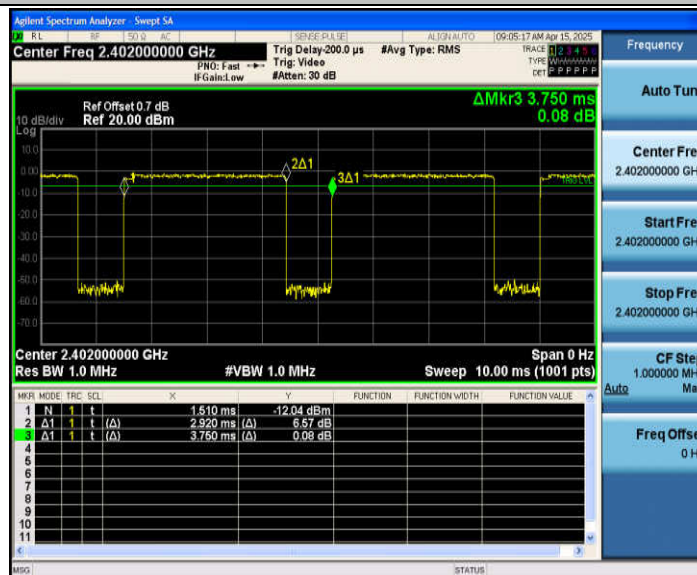
DH5_Ant1_2441



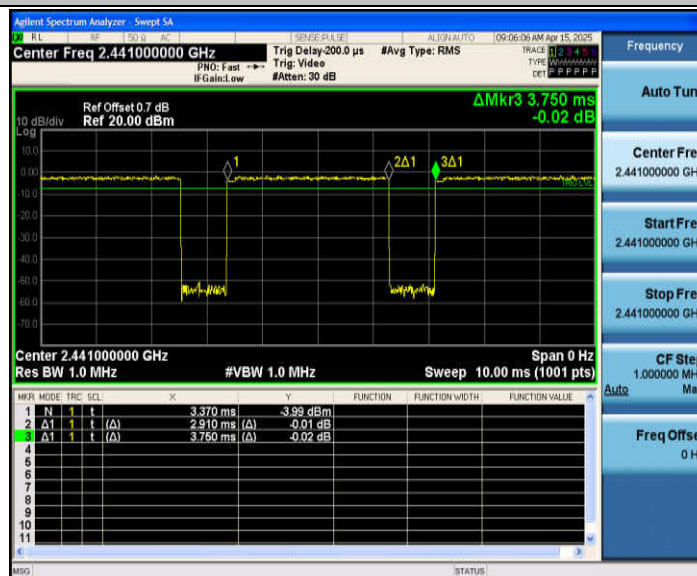
DH5_Ant1_2480



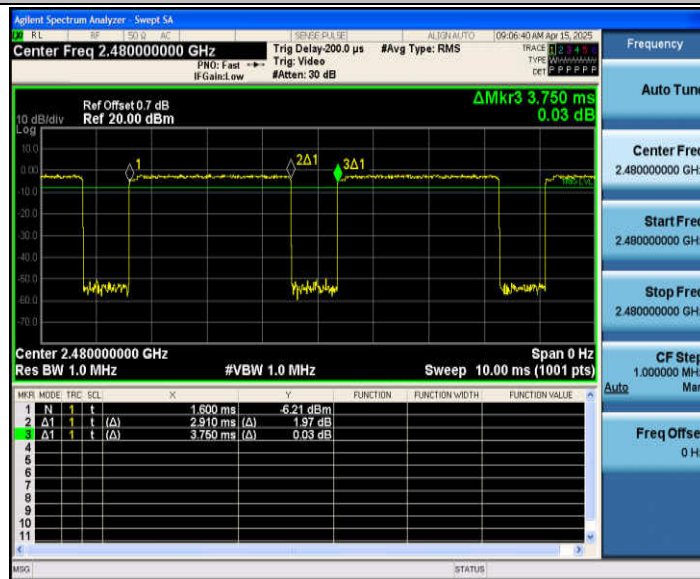
2DH5_Ant1_2402



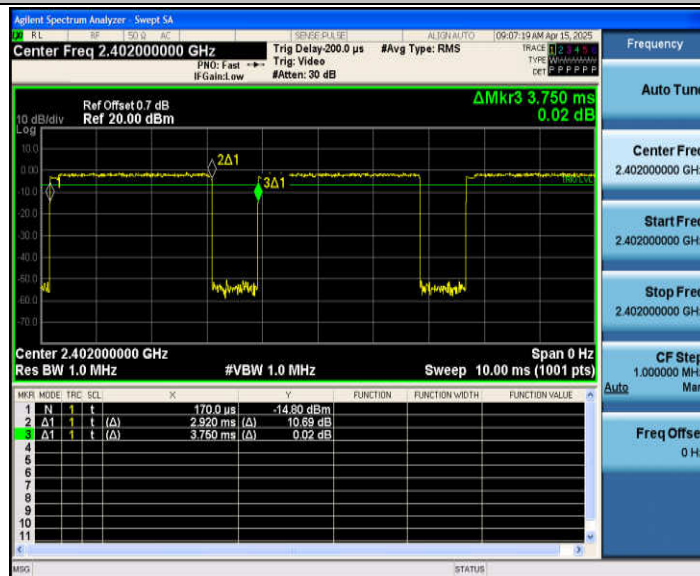
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

