

Appendix RF Test Data for BT

FCC ID : 2AZYA-GS100

Company : Senwa Global International, S.A. de C.V.

EUT : Smart glasses

Model Number : GS100

Report No. : CTA25082100101

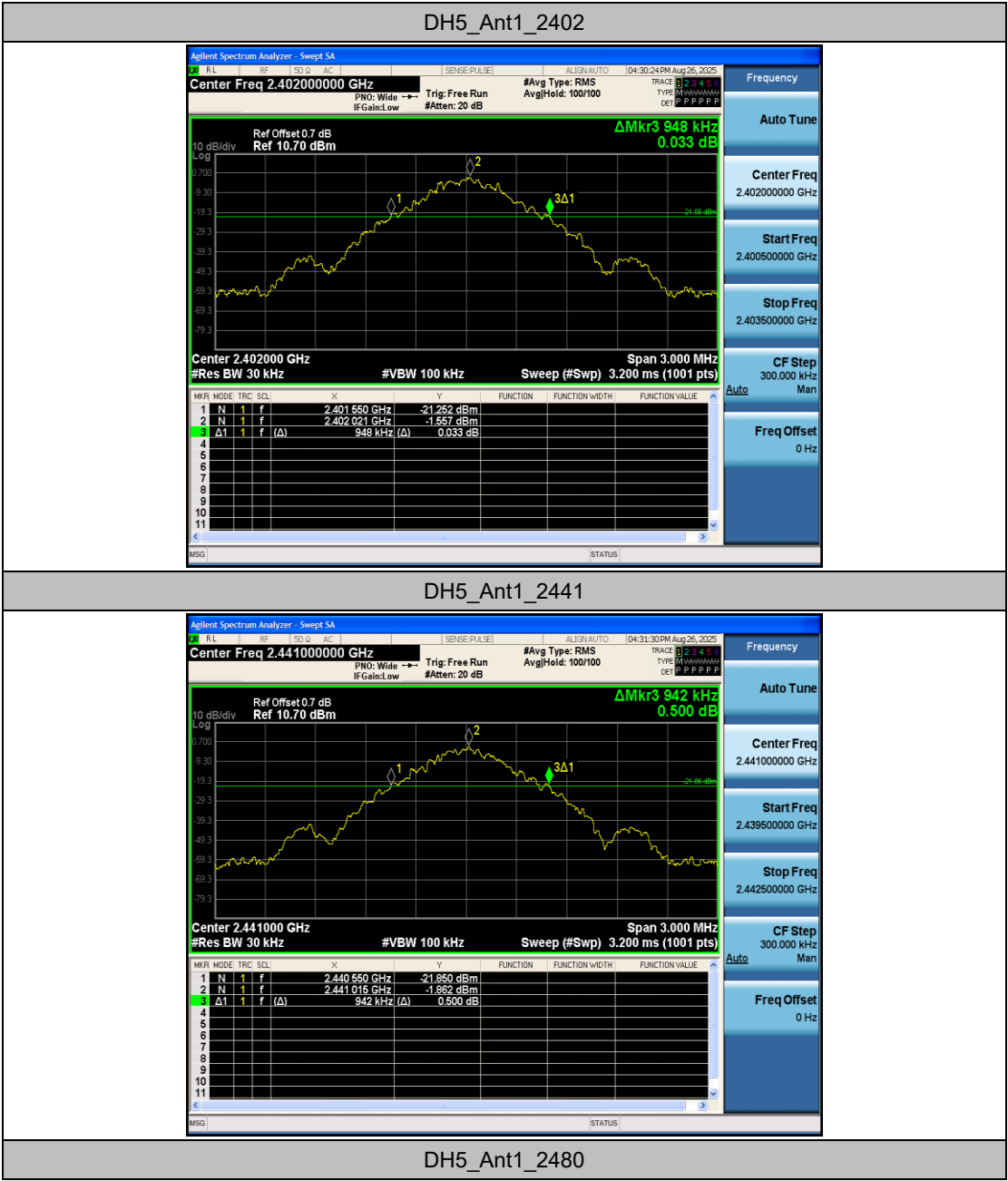
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.550	2402.498	---	---
		2441	0.942	2440.550	2441.492	---	---
		2480	0.951	2479.544	2480.495	---	---
2DH5	Ant1	2402	1.332	2401.343	2402.675	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.317	2479.349	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

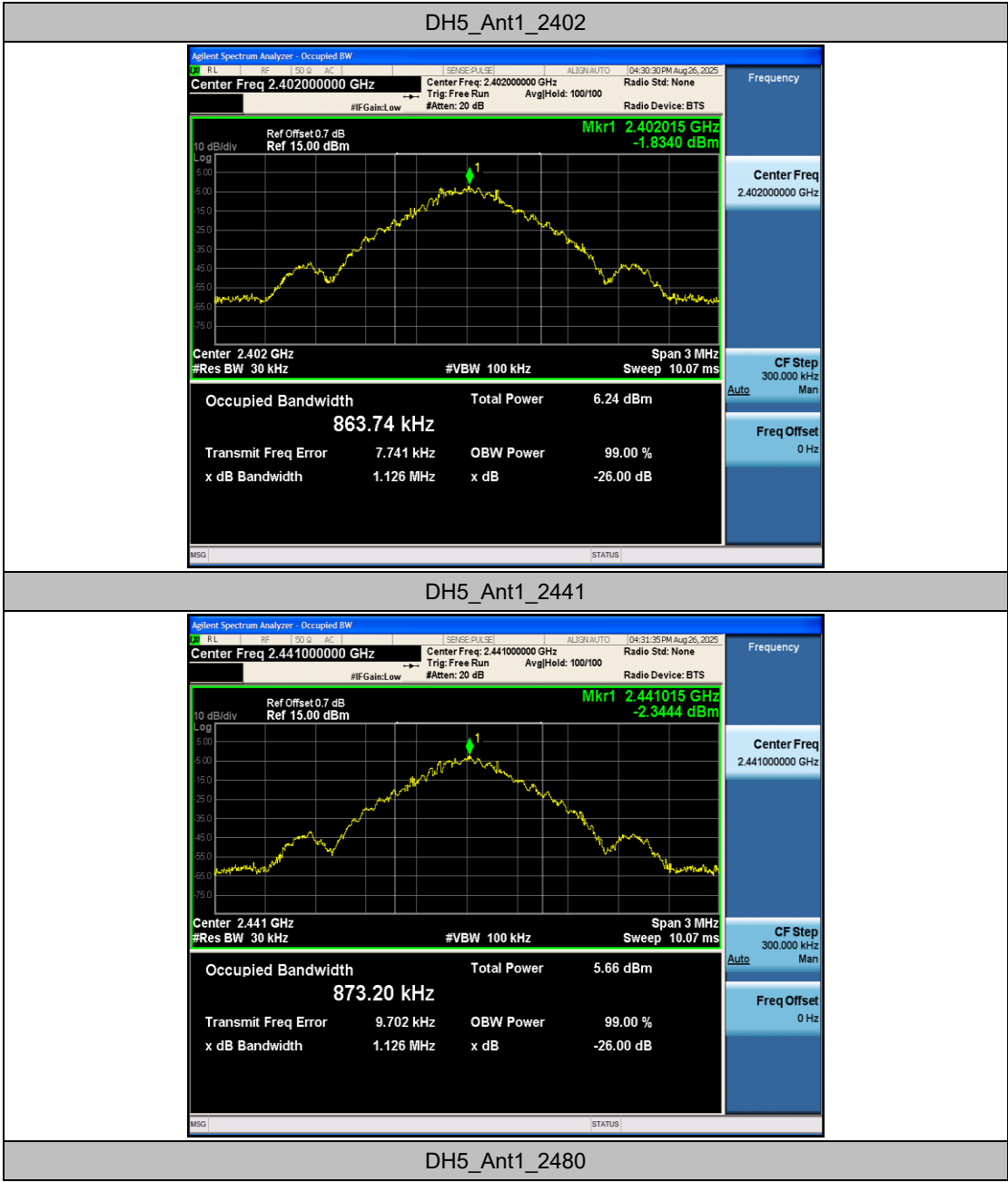


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86374	2401.5759	2402.4396	---	---
		2441	0.87320	2440.5731	2441.4463	---	---
		2480	0.87371	2479.5736	2480.4473	---	---
2DH5	Ant1	2402	1.1862	2401.4157	2402.6019	---	---
		2441	1.1849	2440.4171	2441.6020	---	---
		2480	1.1940	2479.4137	2480.6077	---	---

Test Graphs

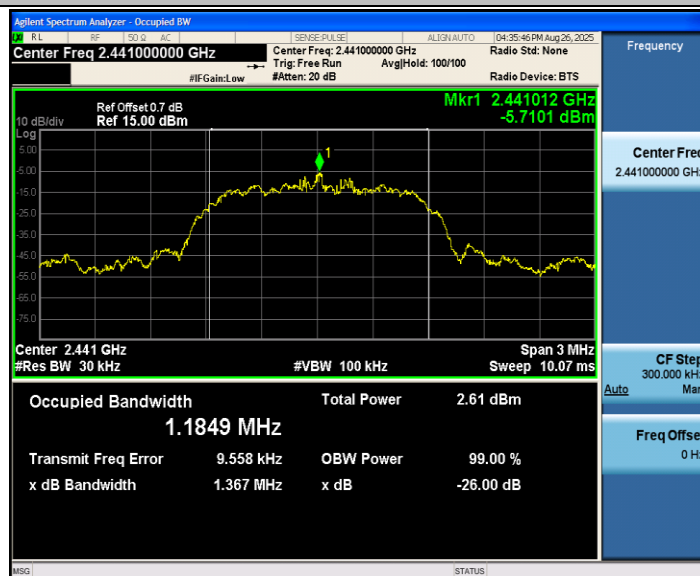




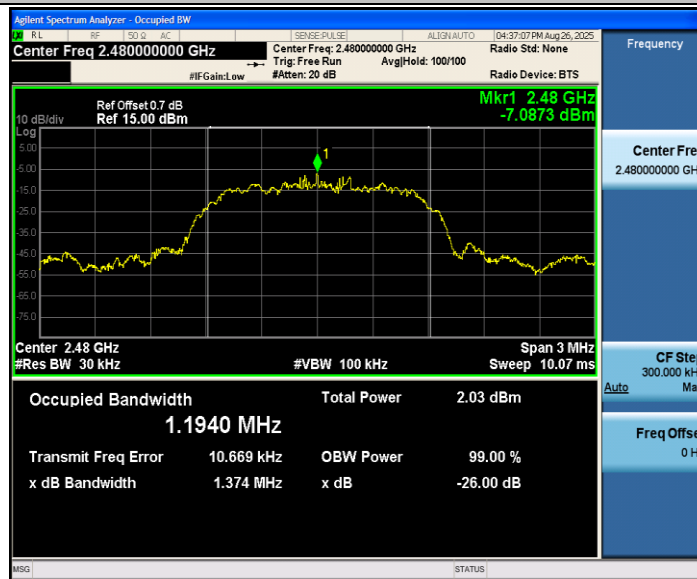
2DH5_Ant1_2402



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	0.32	≤20.97	PASS
		2441	-0.21	≤20.97	PASS
		2480	-0.46	≤20.97	PASS
2DH5	Ant1	2402	-0.53	≤20.97	PASS
		2441	-1.01	≤20.97	PASS
		2480	-1.36	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥ 0.951	PASS
2DH5	Ant1	Hop	1.084	≥ 0.888	PASS

Test Graphs

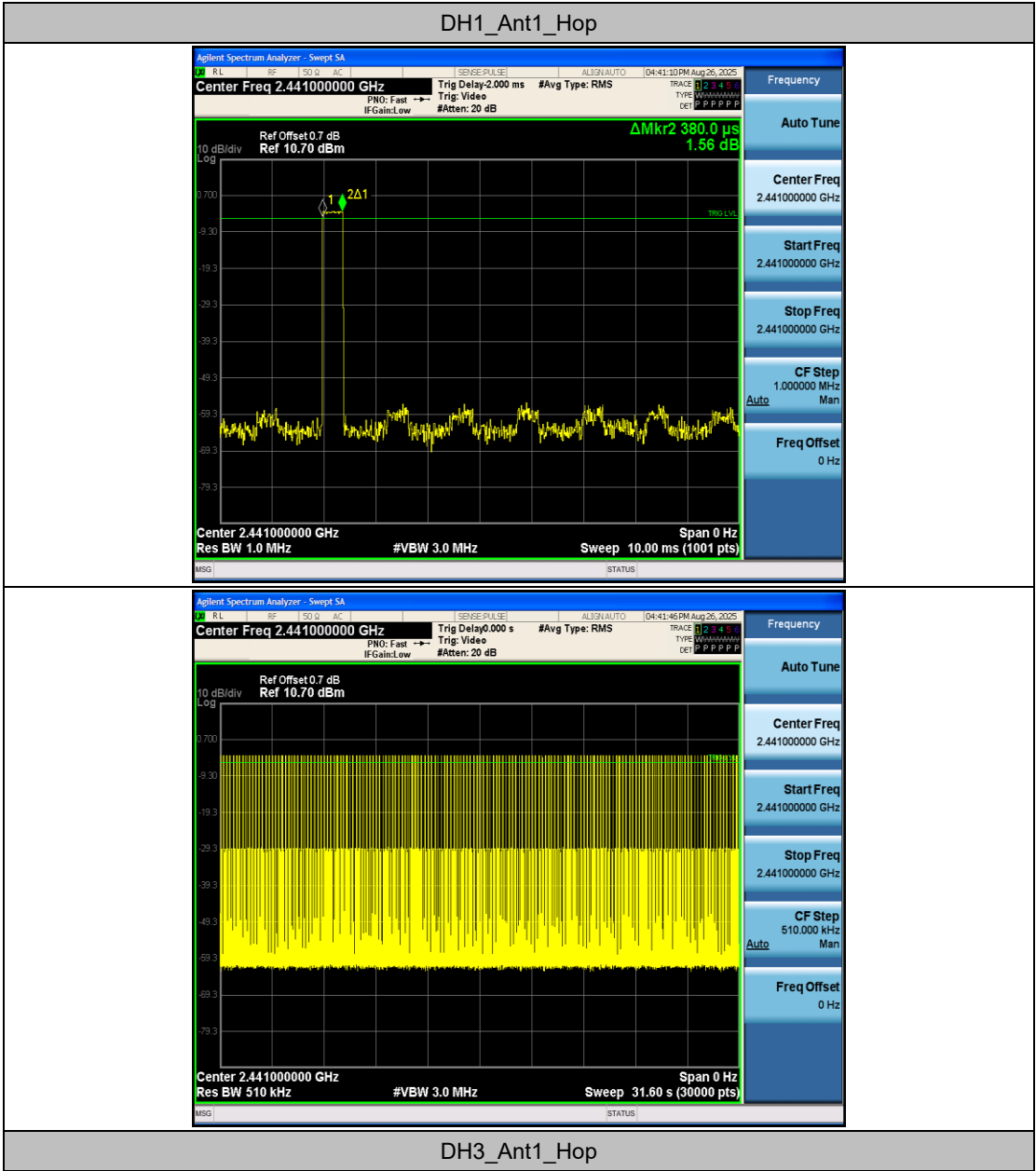


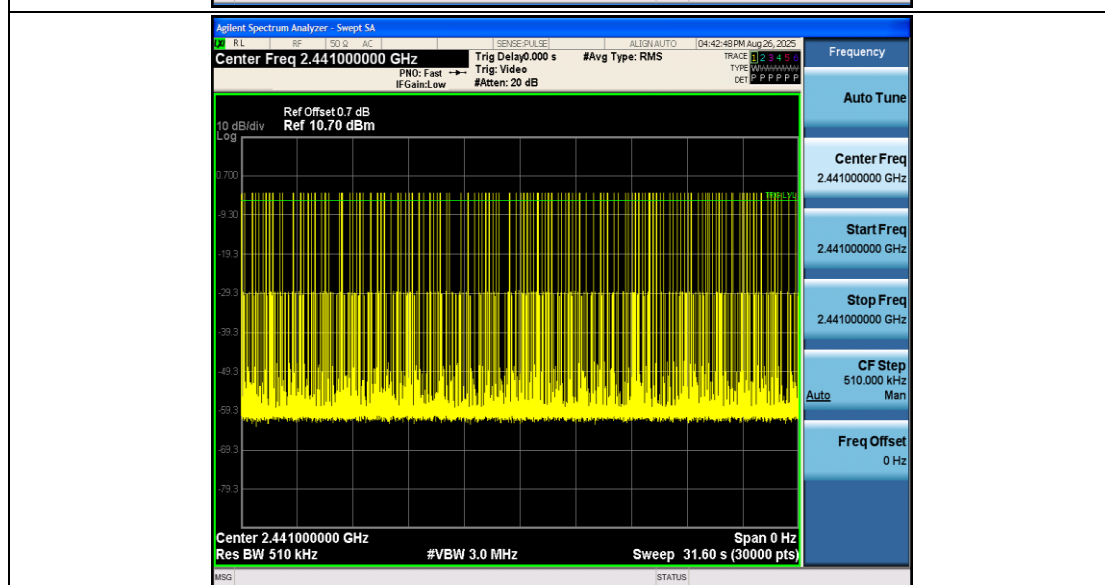
Appendix E: Time of occupancy

Test Result

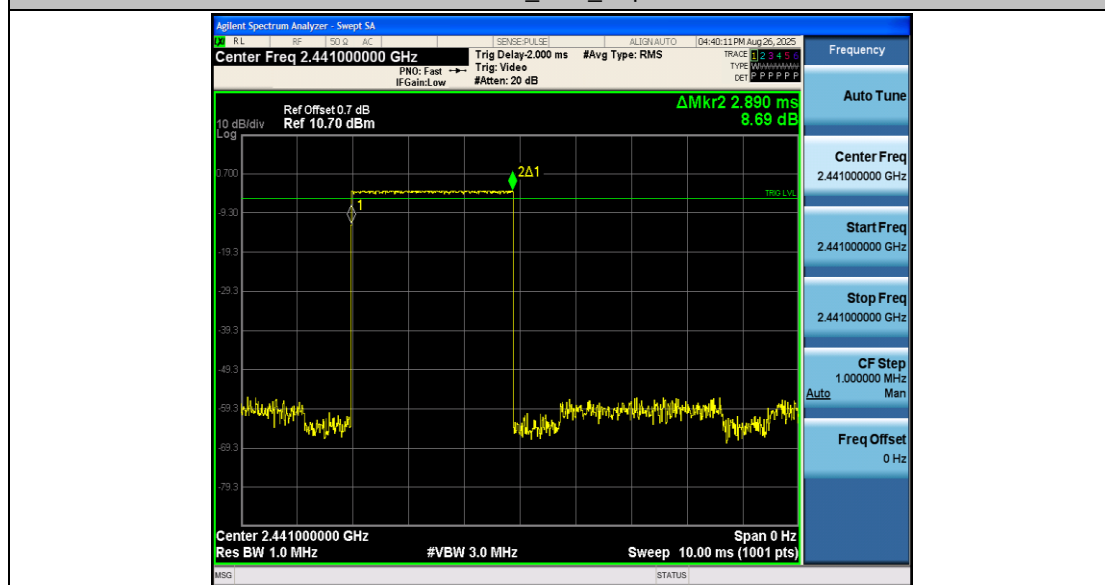
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	318	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.640	167	0.274	≤0.4	PASS
DH5	Ant1	Hop	2.890	118	0.341	≤0.4	PASS
2DH1	Ant1	Hop	0.400	318	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	154	0.254	≤0.4	PASS
2DH5	Ant1	Hop	2.900	92	0.267	≤0.4	PASS

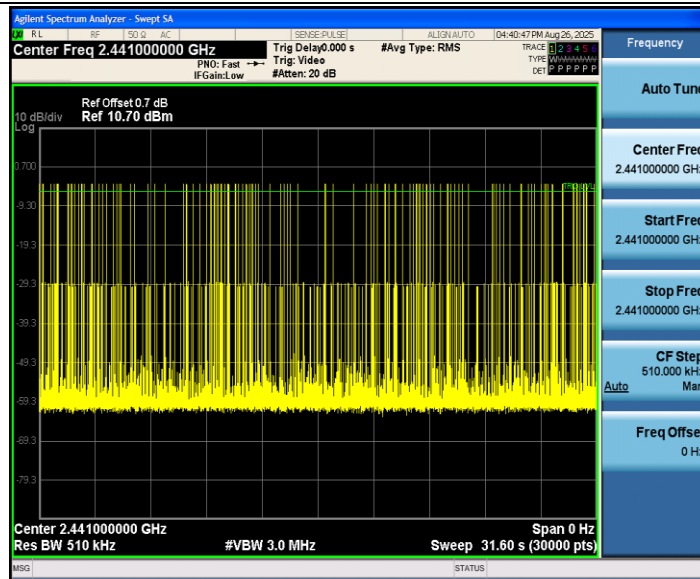
Test Graphs



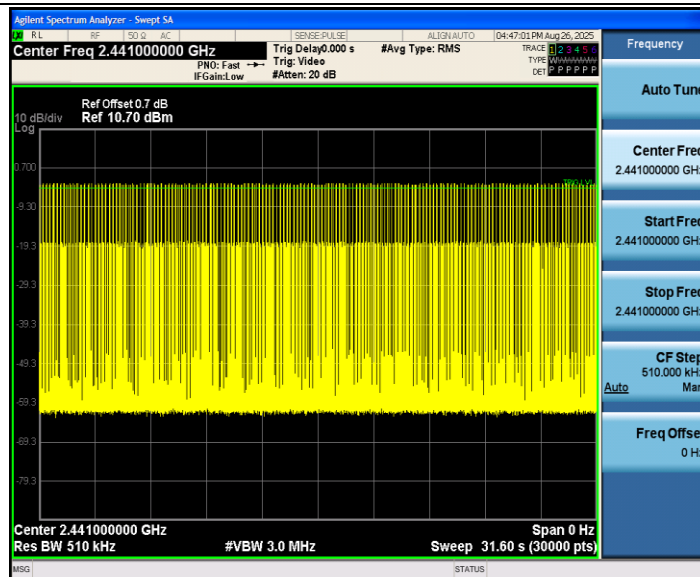
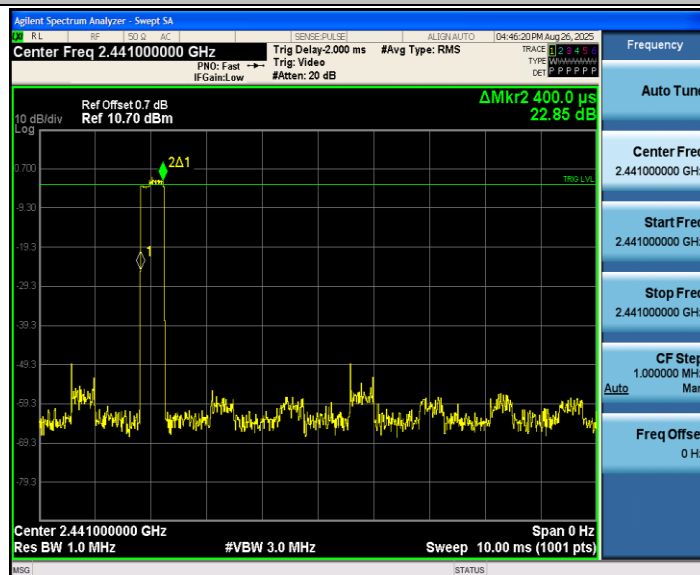


DH5_Ant1_Hop

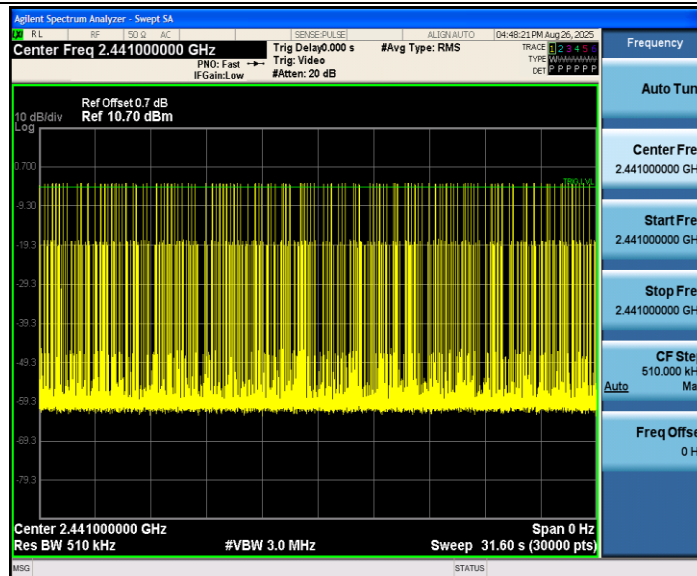




2DH1_Ant1_Hop

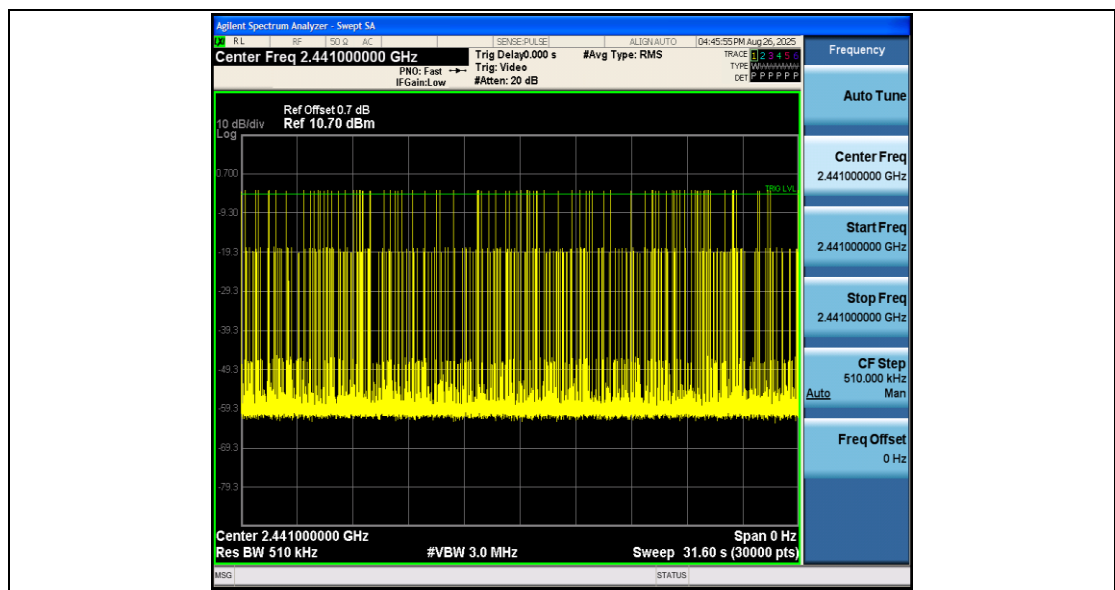


2DH3_Ant1_Hop



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



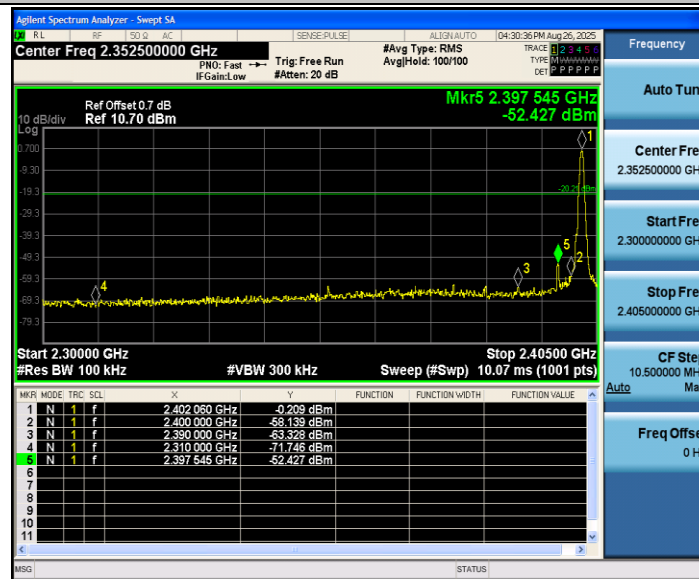
Appendix G: Band edge measurements

Test Result

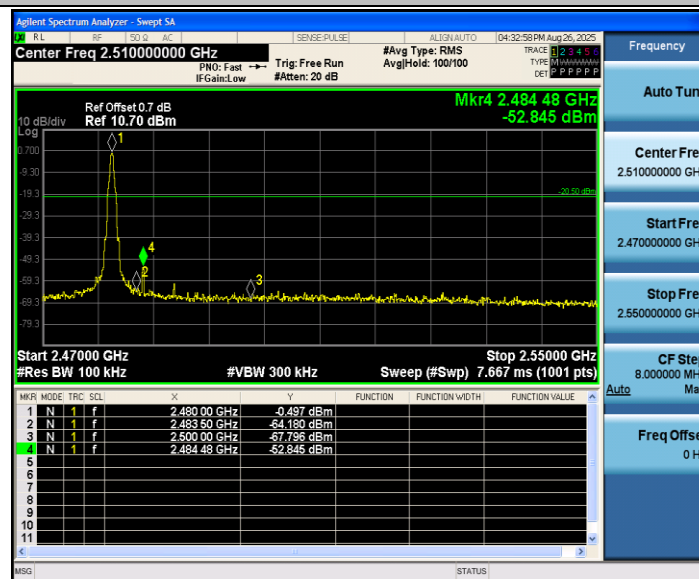
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.21	-52.43	≤-20.21	PASS
		High	2480	-0.50	-52.85	≤-20.5	PASS
		Low	Hop_2402	-3.21	-59.74	≤-23.21	PASS
		High	Hop_2480	-4.25	-63.65	≤-24.25	PASS
2DH5	Ant1	Low	2402	-3.24	-60.41	≤-23.24	PASS
		High	2480	-4.06	-58.33	≤-24.06	PASS
		Low	Hop_2402	-3.21	-57.13	≤-23.21	PASS
		High	Hop_2480	-4.38	-63.73	≤-24.38	PASS

Test Graphs

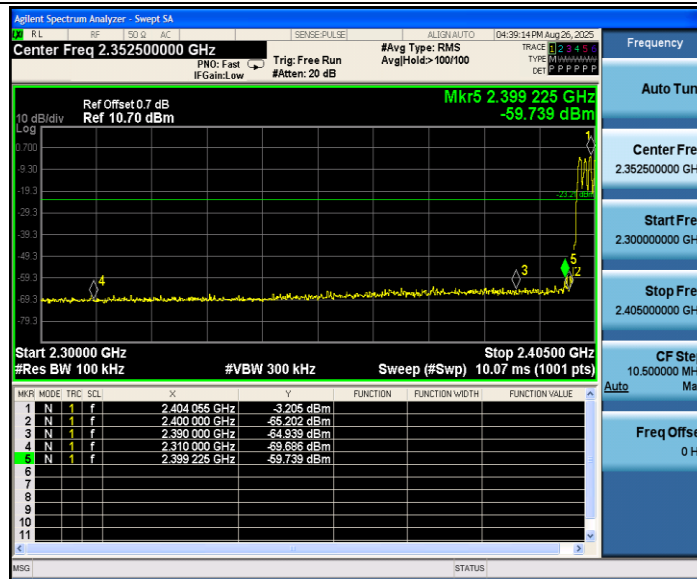
DH5_Ant1_Low_2402



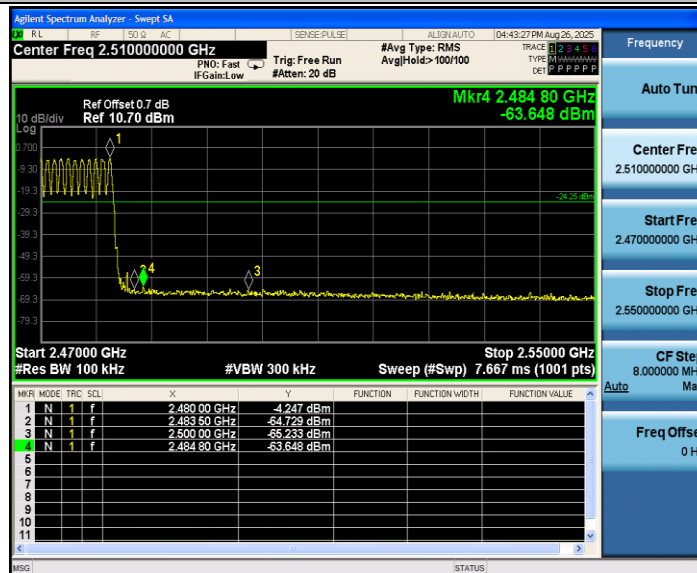
DH5_Ant1_High_2480



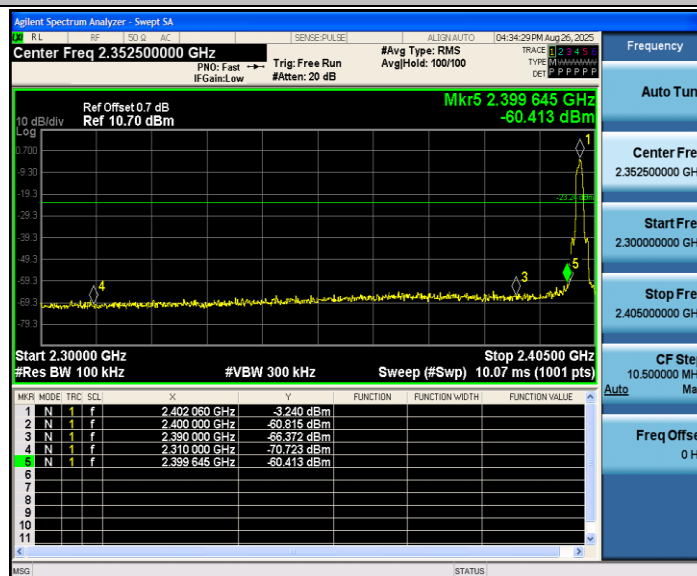
DH5_Ant1_Low_Hop_2402



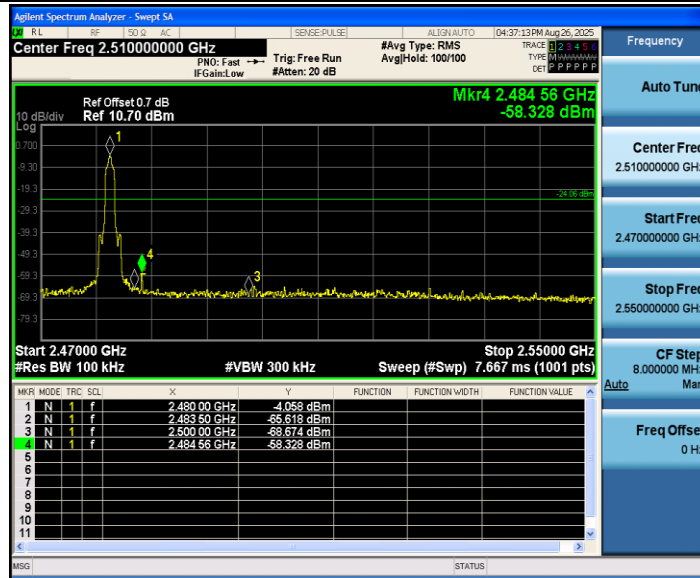
DH5_Ant1_High_Hop_2480



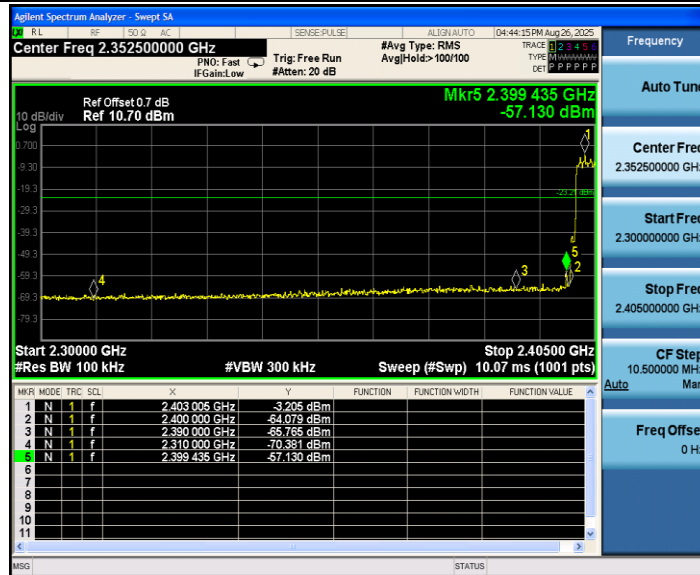
2DH5_Ant1_Low_2402



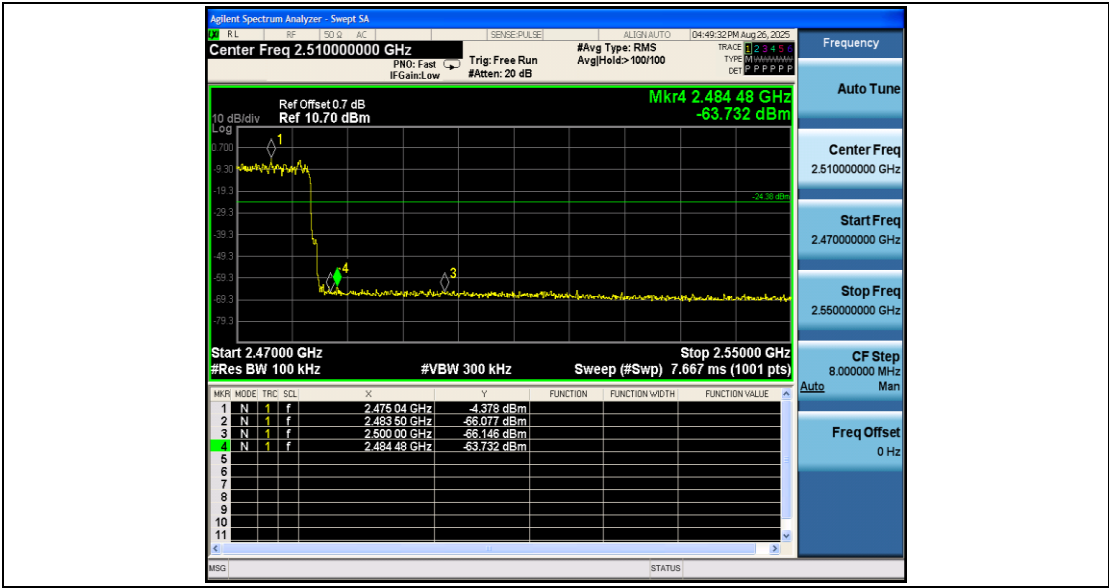
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

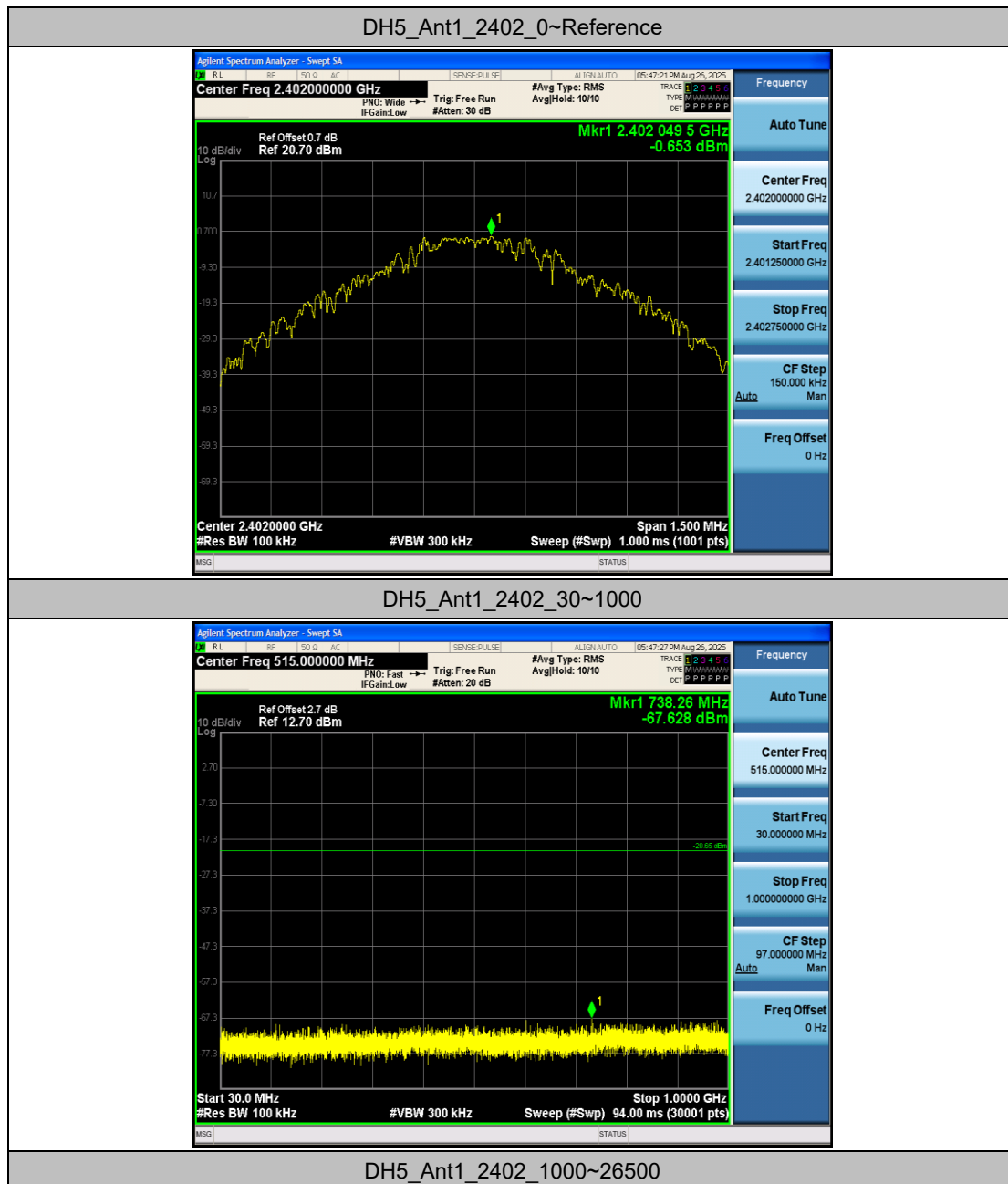


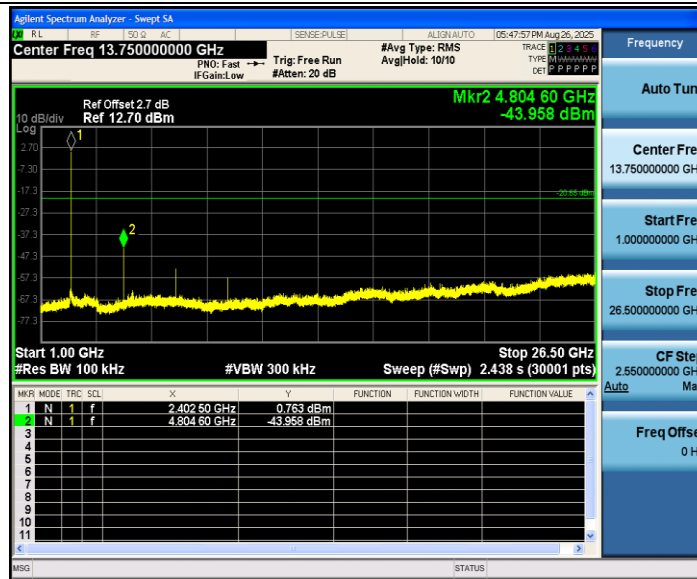
Appendix H: Conducted Spurious Emission

Test Result

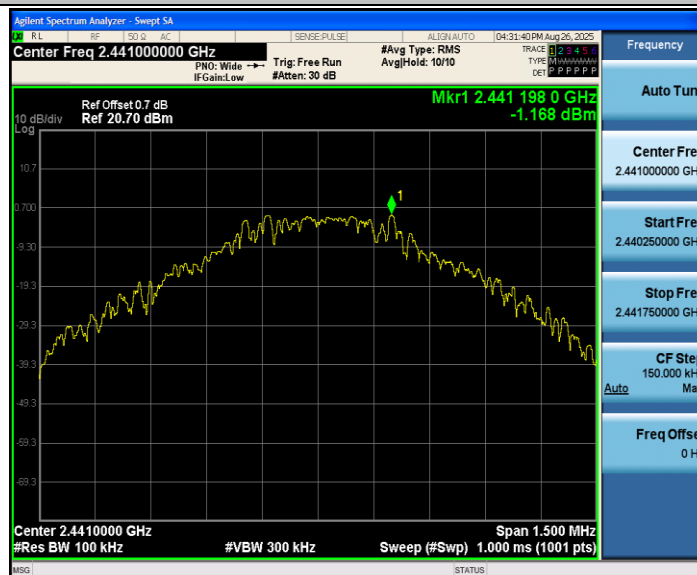
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-67.63	≤-20.65	PASS
			1000~26500	-0.65	-43.96	≤-20.65	PASS
		2441	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-67.14	≤-21.17	PASS
			1000~26500	-1.17	-44.36	≤-21.17	PASS
		2480	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-67.14	≤-21.66	PASS
			1000~26500	-1.66	-42.91	≤-21.66	PASS
2DH5	Ant1	2402	Reference	-5.25	-5.25	---	PASS
			30~1000	-5.25	-67.72	≤-25.25	PASS
			1000~26500	-5.25	-45.05	≤-25.25	PASS
		2441	Reference	-6.57	-6.57	---	PASS
			30~1000	-6.57	-67.36	≤-26.57	PASS
			1000~26500	-6.57	-49.49	≤-26.57	PASS
		2480	Reference	-6.65	-6.65	---	PASS
			30~1000	-6.65	-67.23	≤-26.65	PASS
			1000~26500	-6.65	-48.47	≤-26.65	PASS

Test Graphs

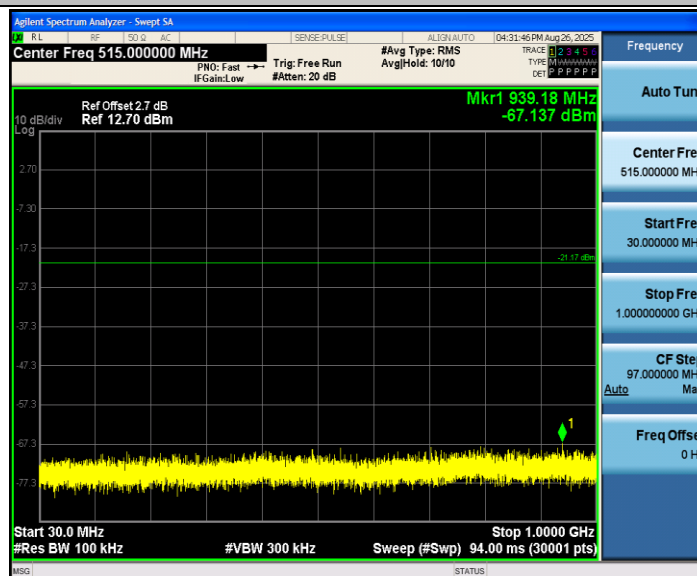




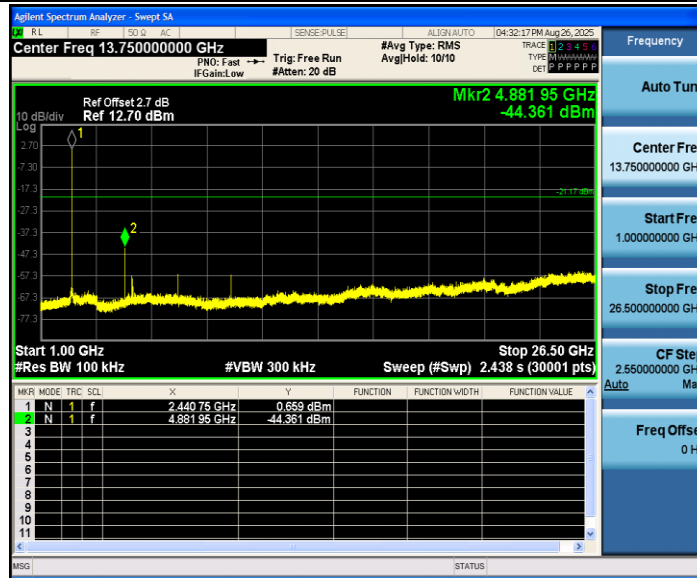
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



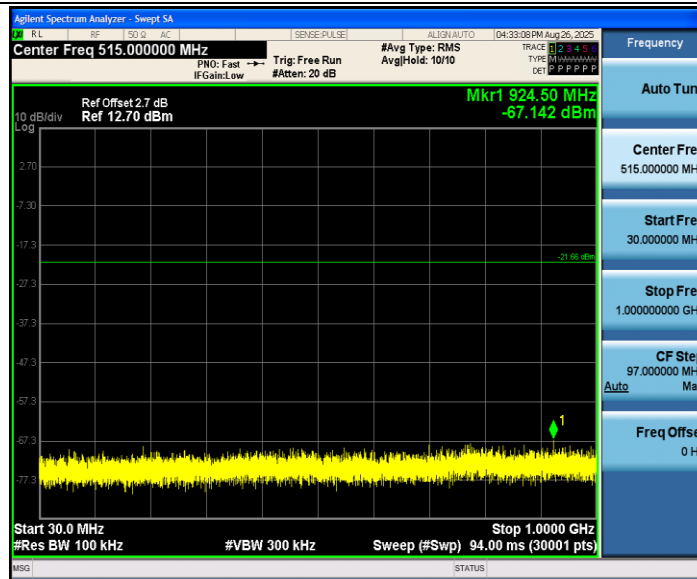
DH5_Ant1_2441_1000~26500



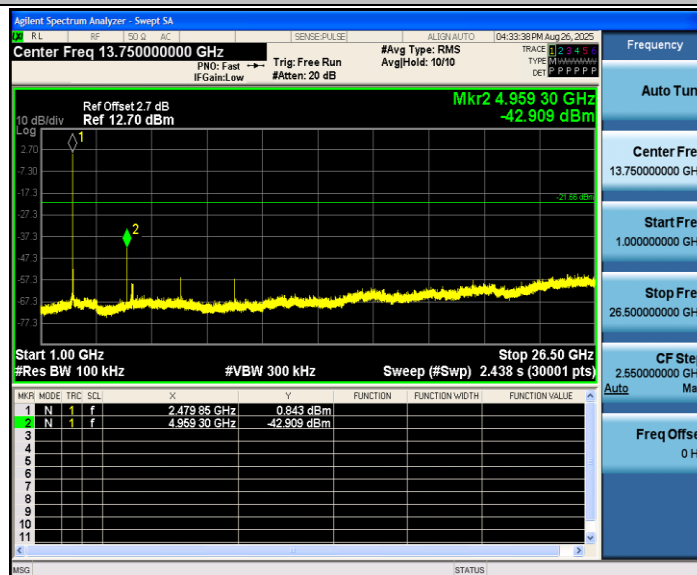
DH5_Ant1_2480_0~Reference



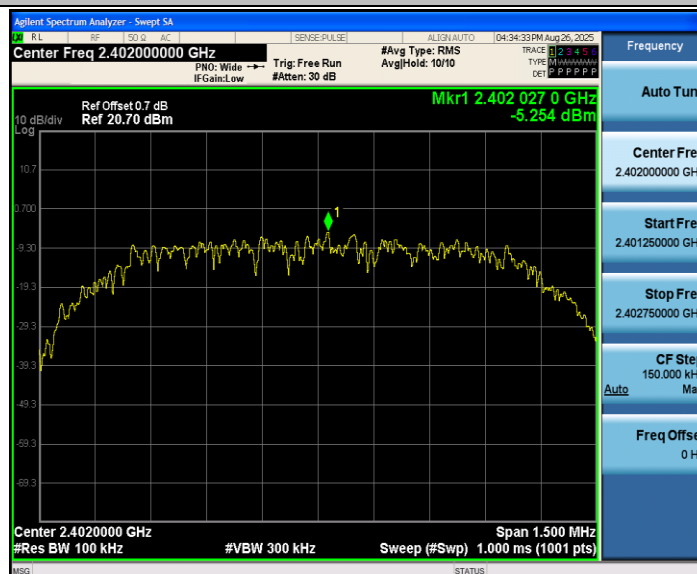
DH5_Ant1_2480_30~1000



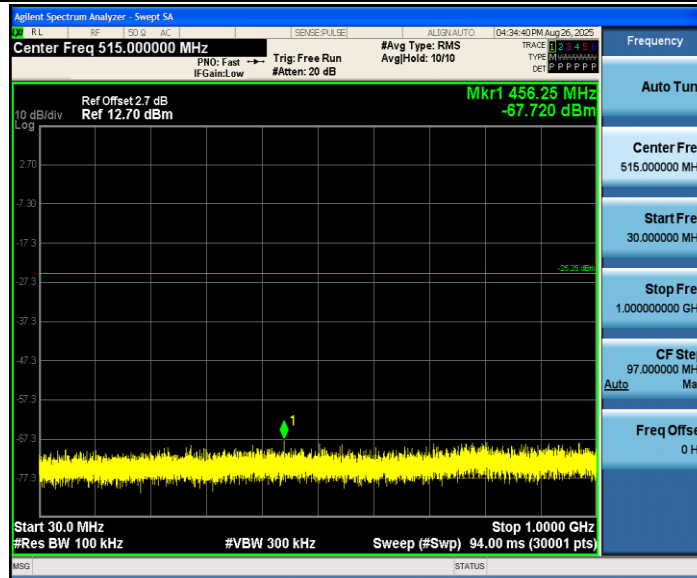
DH5_Ant1_2480_1000~26500



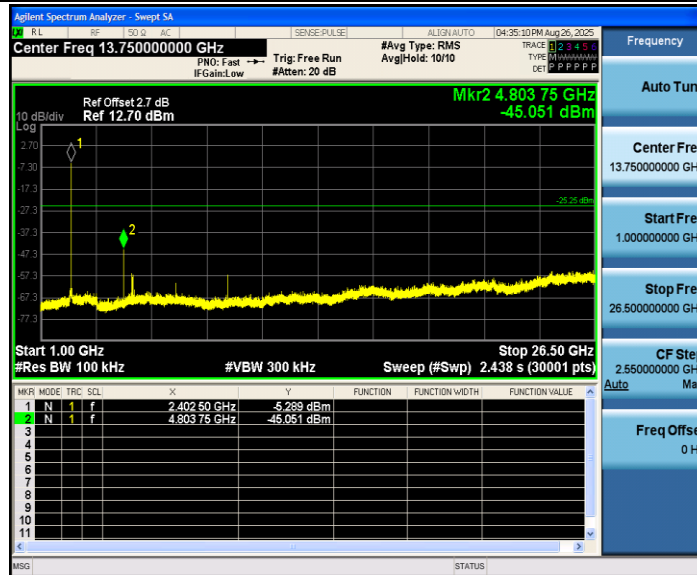
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



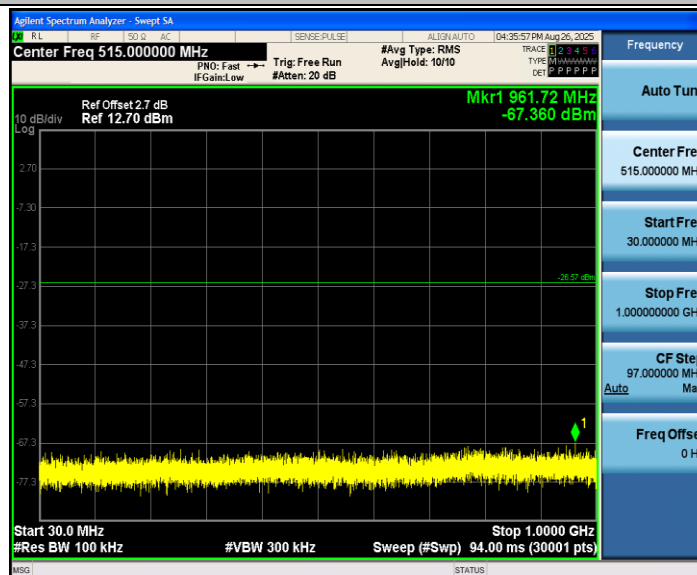
2DH5_Ant1_2402_1000~26500



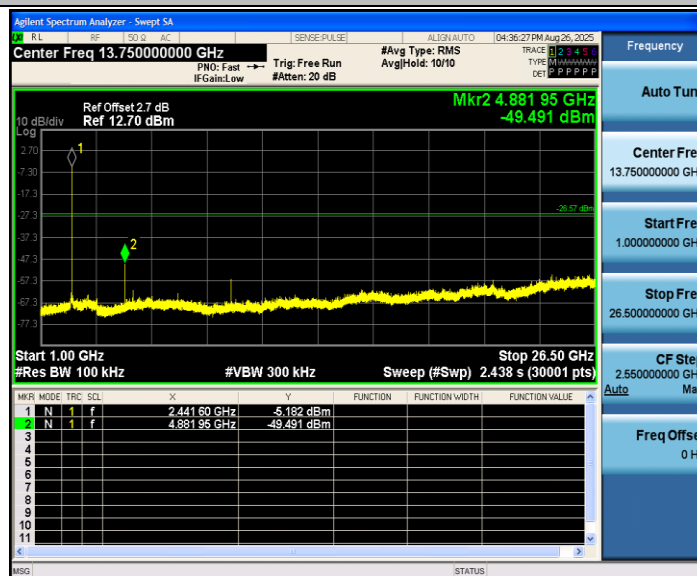
2DH5_Ant1_2441_0~Reference



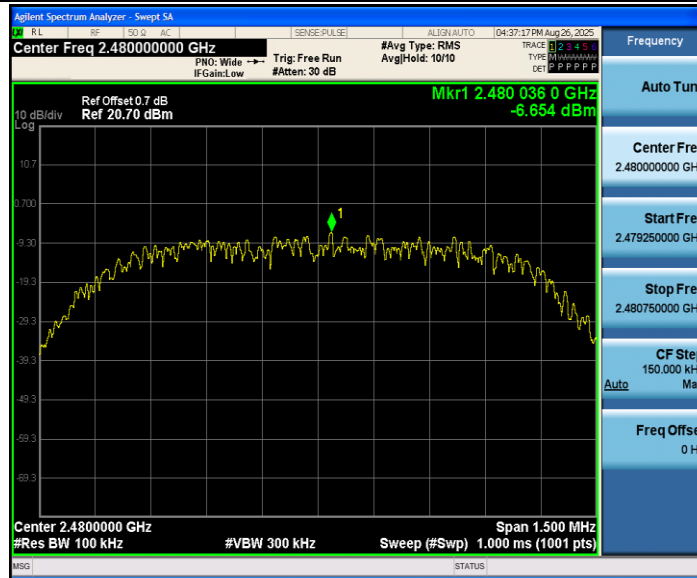
2DH5_Ant1_2441_30~1000



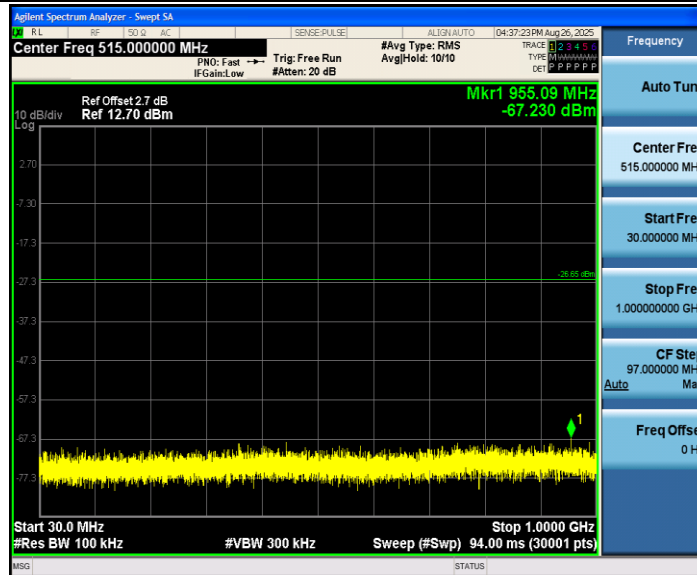
2DH5_Ant1_2441_1000~26500



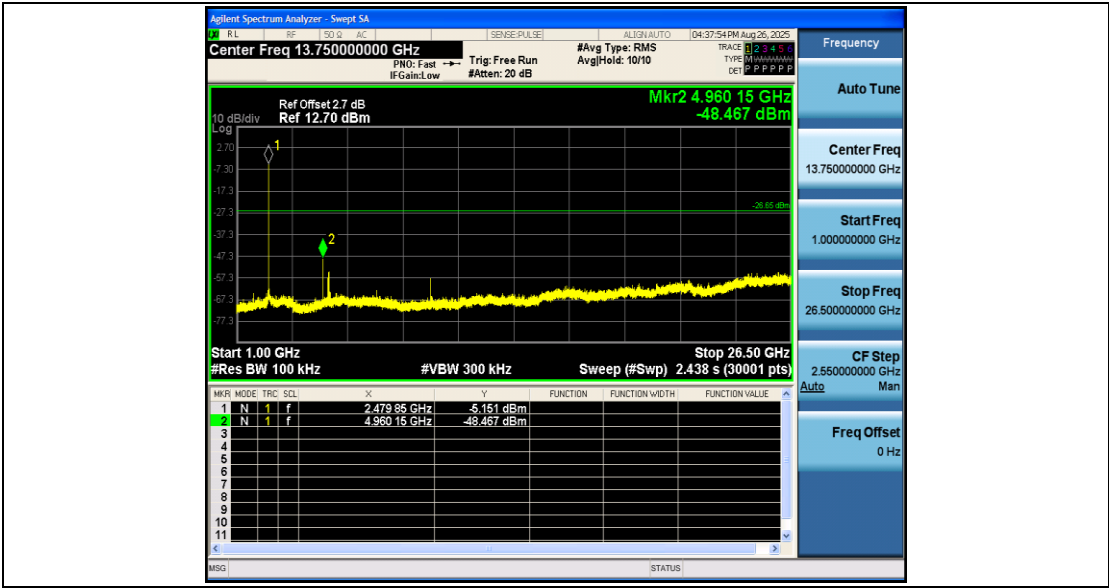
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

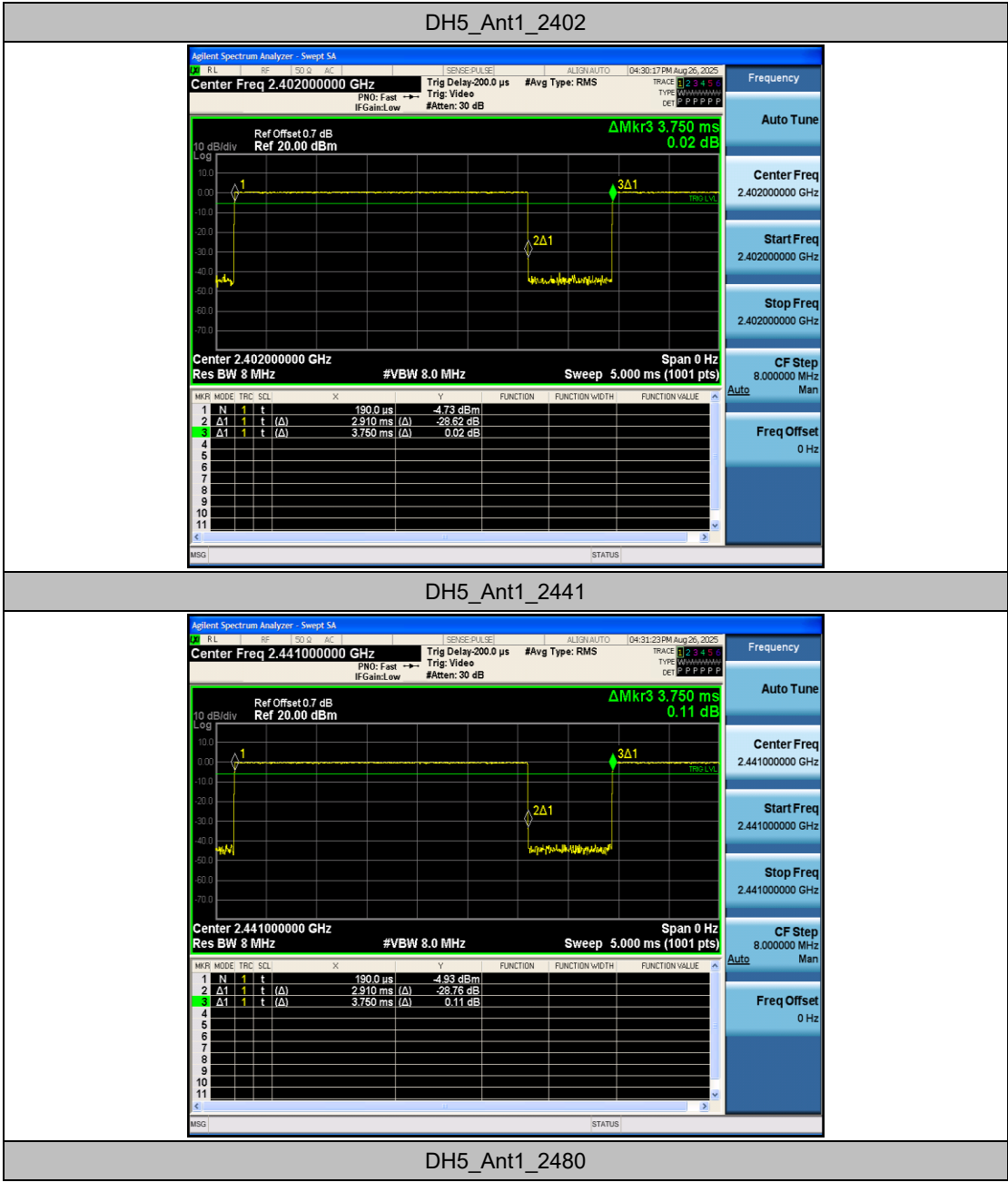


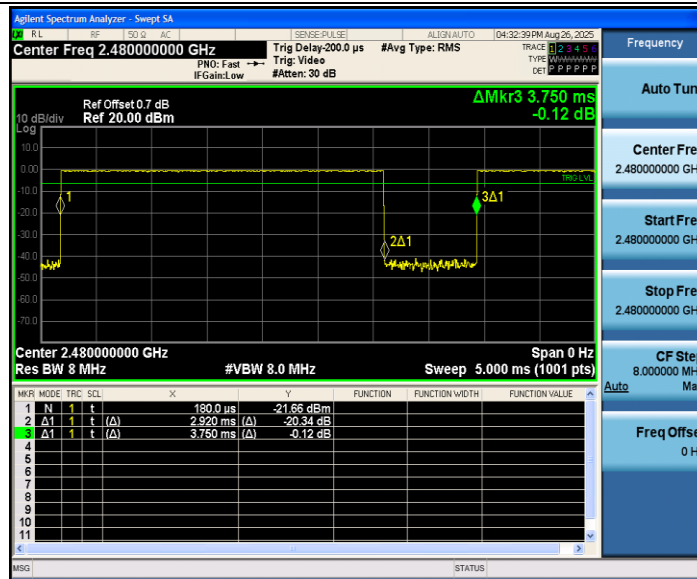
Appendix I: Duty Cycle

Test Result

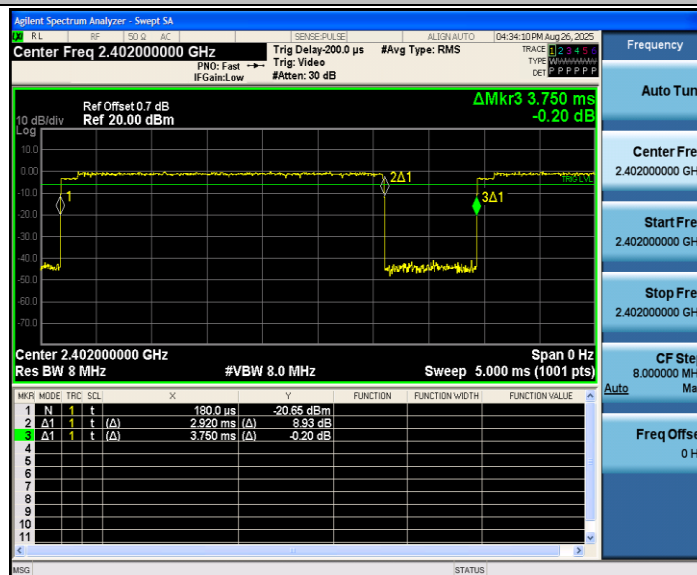
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10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

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

