

FCC Appendix RF Test Data for BT

FCC ID : 2BV7A-V03PRO

Company : SMARTCORE TECHNOLOGIES LIMITED

EUT : Intelligent glasses

Model Number : V03 Pro

Report No. : CTA26061200601

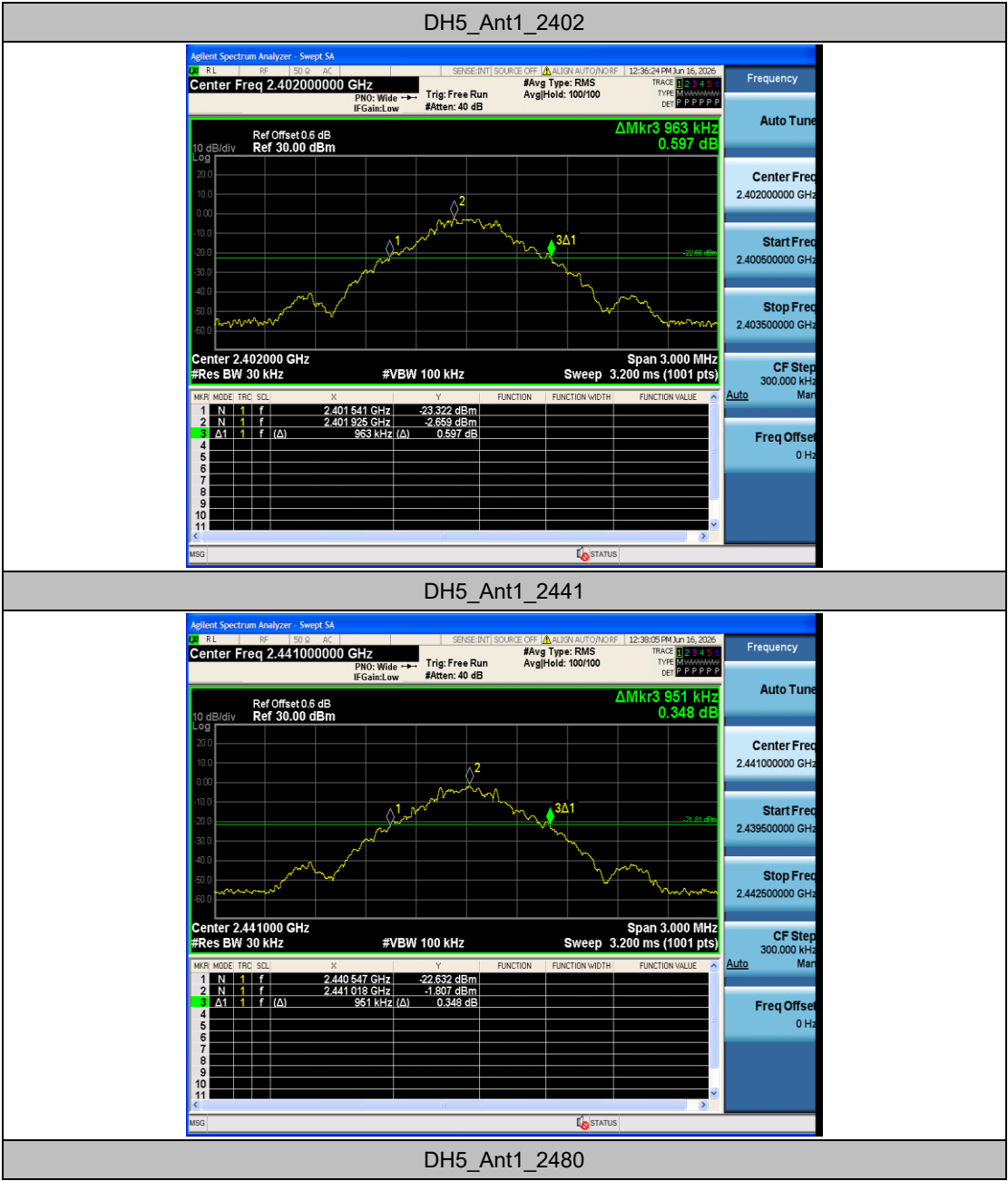
Reviewed By : Eric Wang

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	0.951	2440.547	2441.498	---	---
		2480	0.960	2479.544	2480.504	---	---
2DH5	Ant1	2402	1.293	2401.373	2402.666	---	---
		2441	1.287	2440.376	2441.663	---	---
		2480	1.341	2479.337	2480.678	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

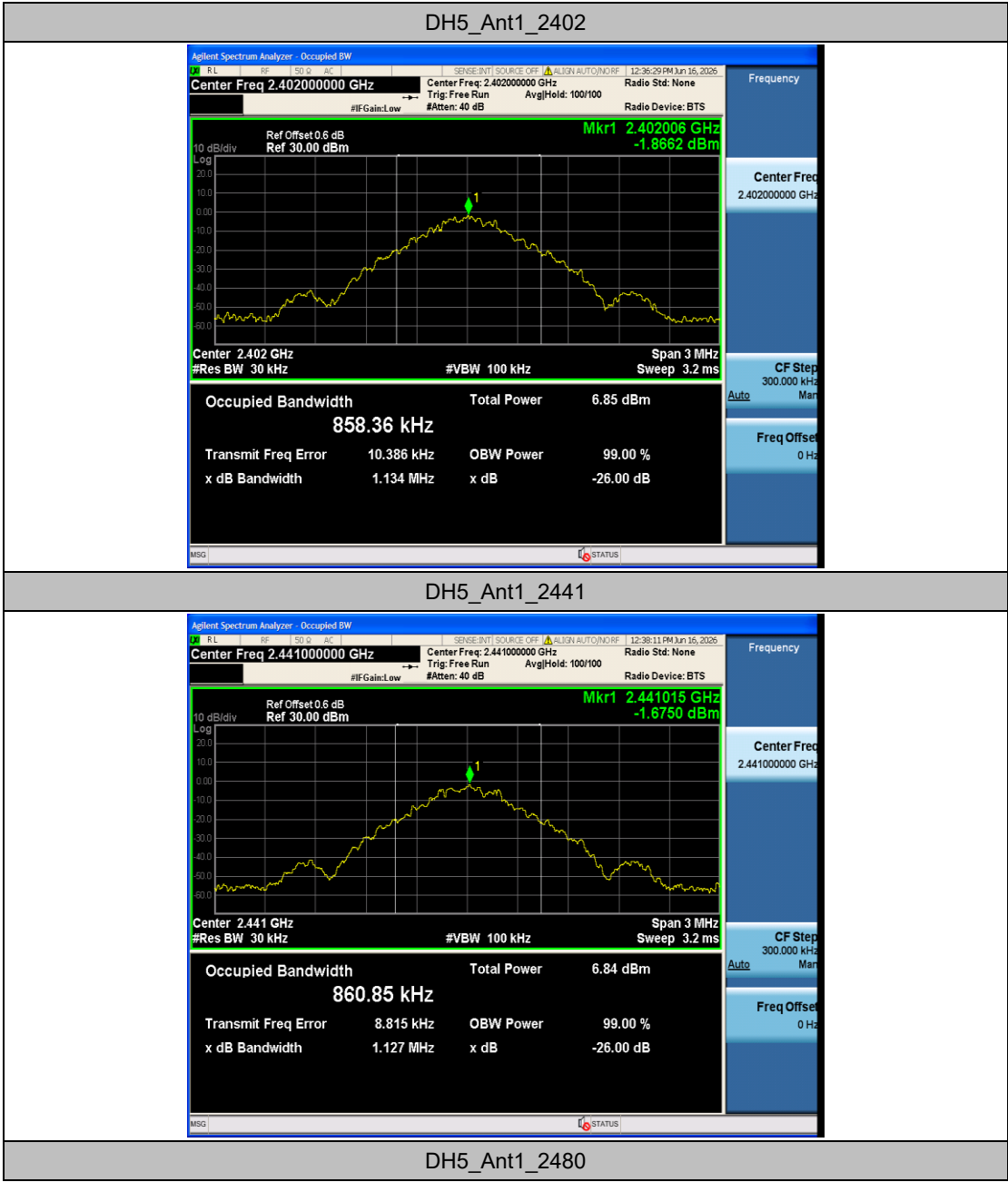


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85836	2401.5812	2402.4396	---	---
		2441	0.86085	2440.5784	2441.4392	---	---
		2480	0.86647	2479.5775	2480.4439	---	---
2DH5	Ant1	2402	1.1859	2401.4178	2402.6037	---	---
		2441	1.1927	2440.4141	2441.6068	---	---
		2480	1.1811	2479.4164	2480.5975	---	---

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	0.19	≤20.97	PASS
		2441	0.12	≤20.97	PASS
		2480	-0.11	≤20.97	PASS
2DH5	Ant1	2402	-0.60	≤20.97	PASS
		2441	-0.73	≤20.97	PASS
		2480	-0.93	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.963	PASS
2DH5	Ant1	Hop	1.182	≥ 0.894	PASS

Test Graphs

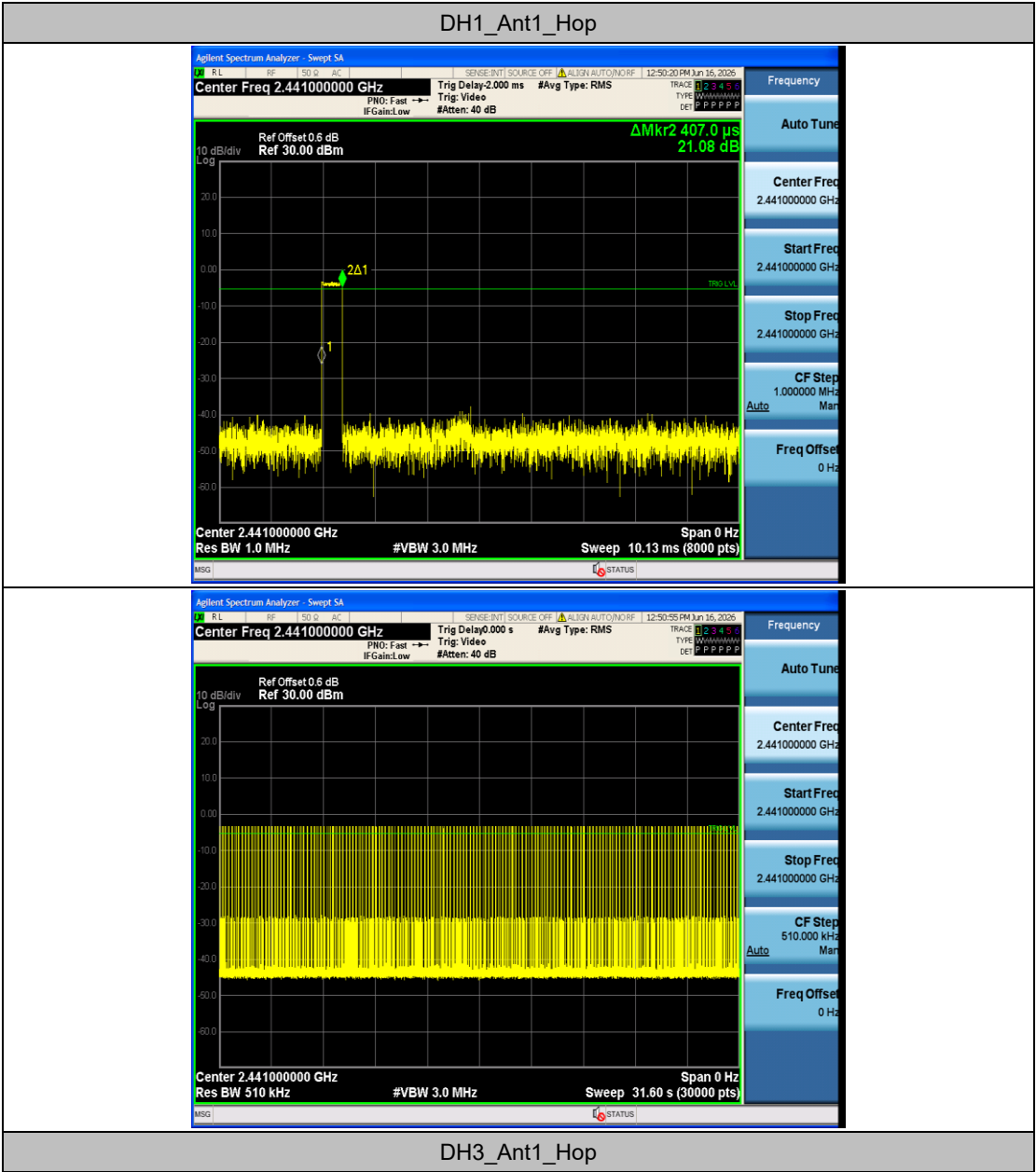


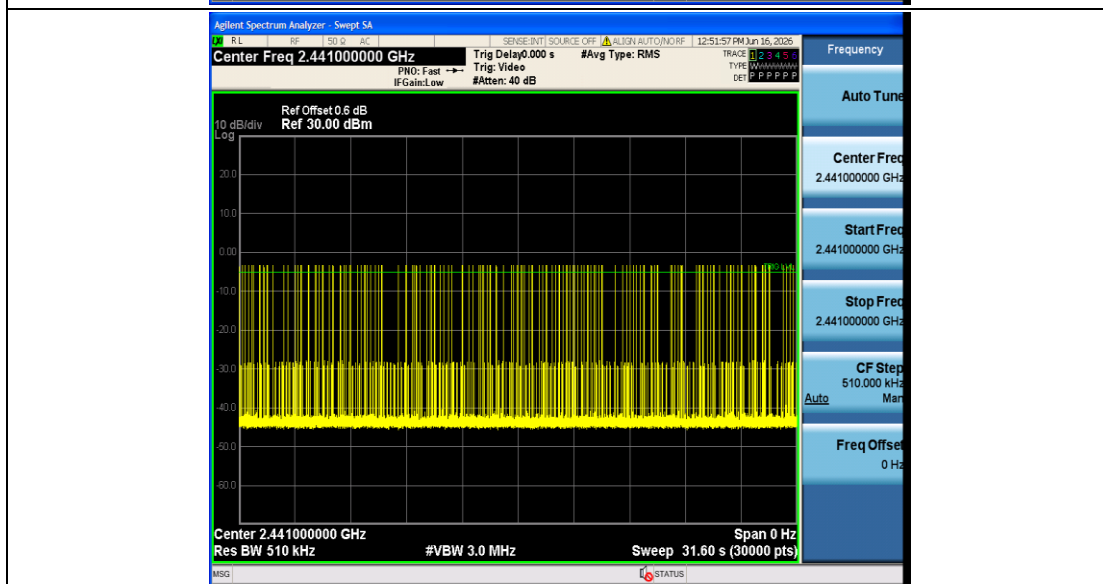
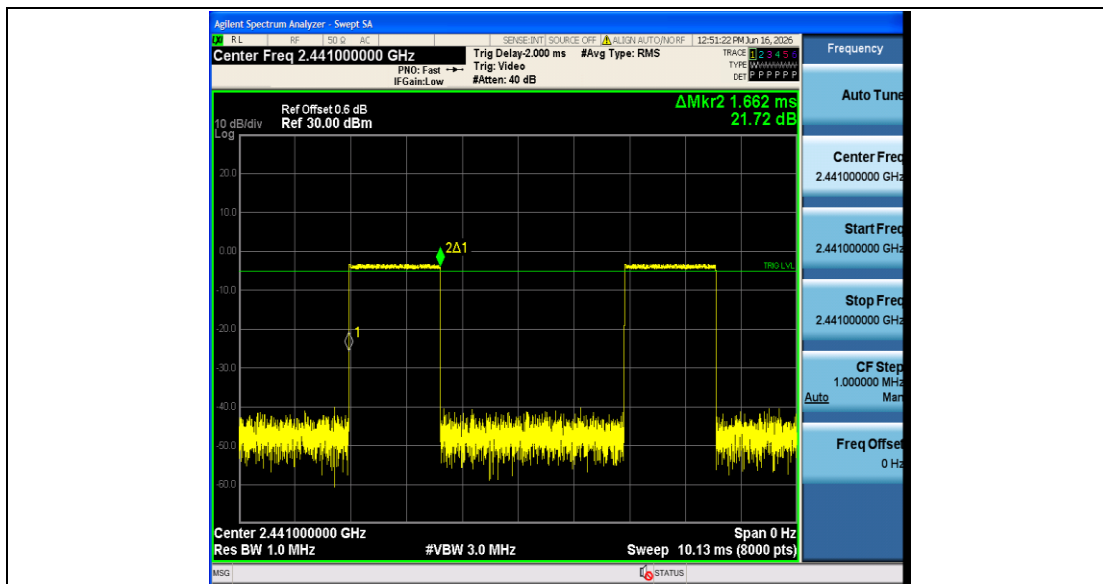
Appendix E: Time of occupancy

Test Result

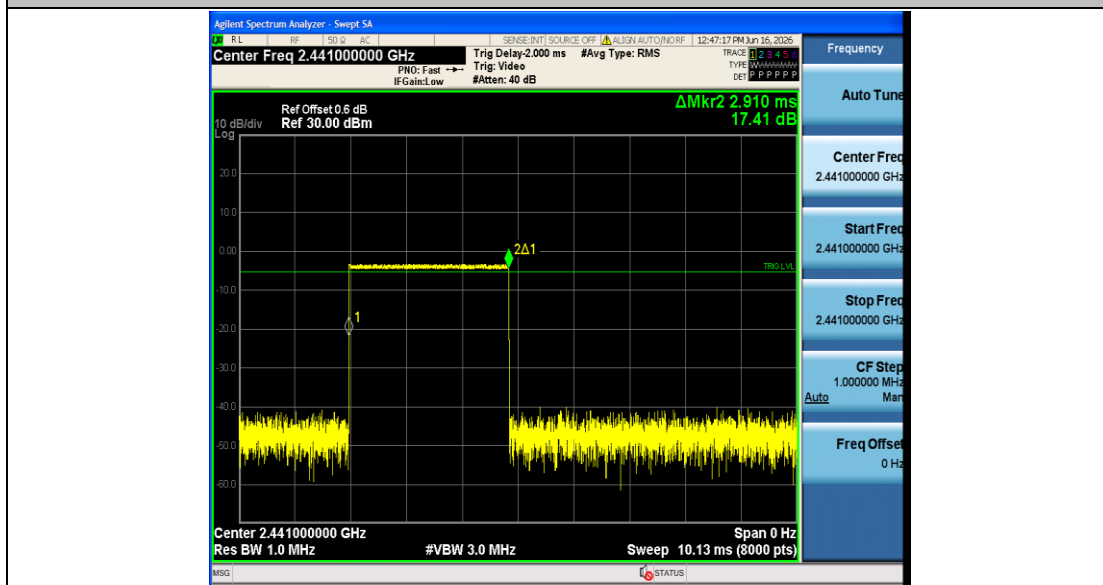
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	155	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.910	117	0.34	≤0.4	PASS
2DH1	Ant1	Hop	0.417	317	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	162	0.27	≤0.4	PASS
2DH5	Ant1	Hop	2.916	108	0.315	≤0.4	PASS

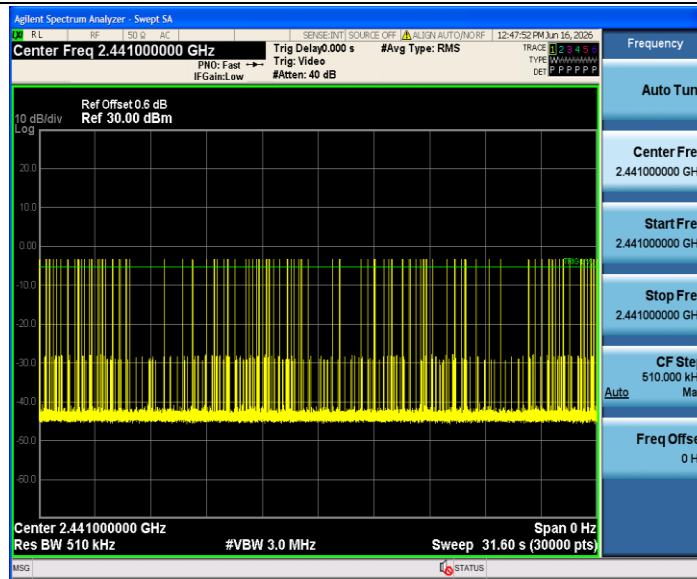
Test Graphs



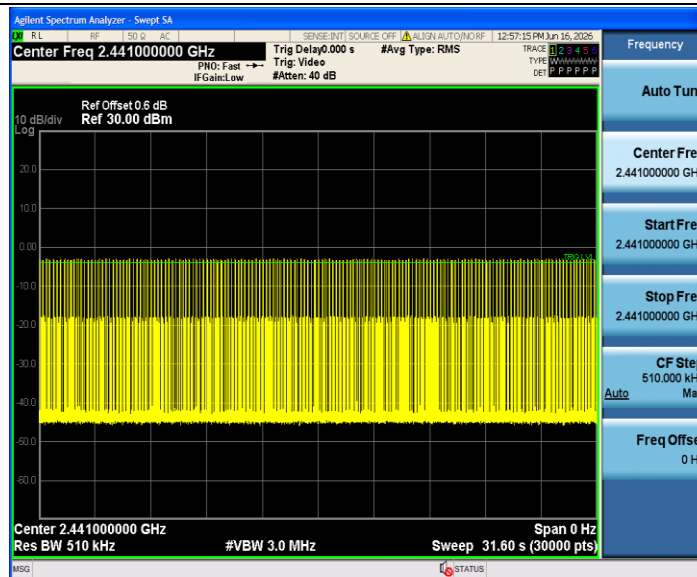
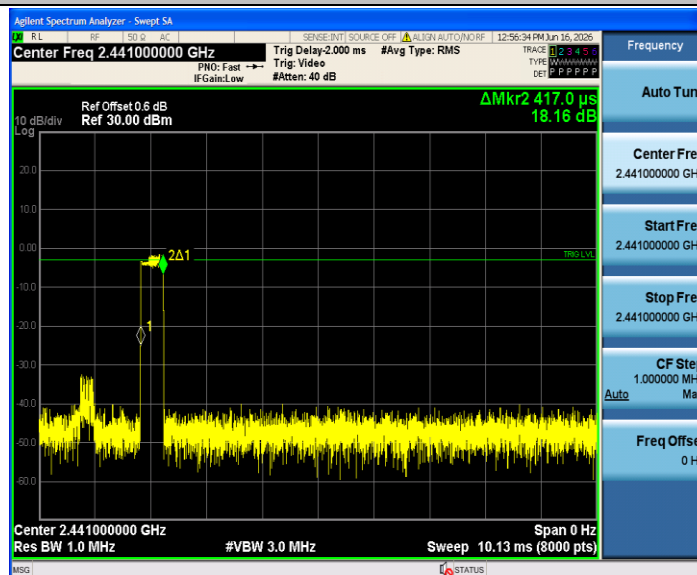


DH5_Ant1_Hop

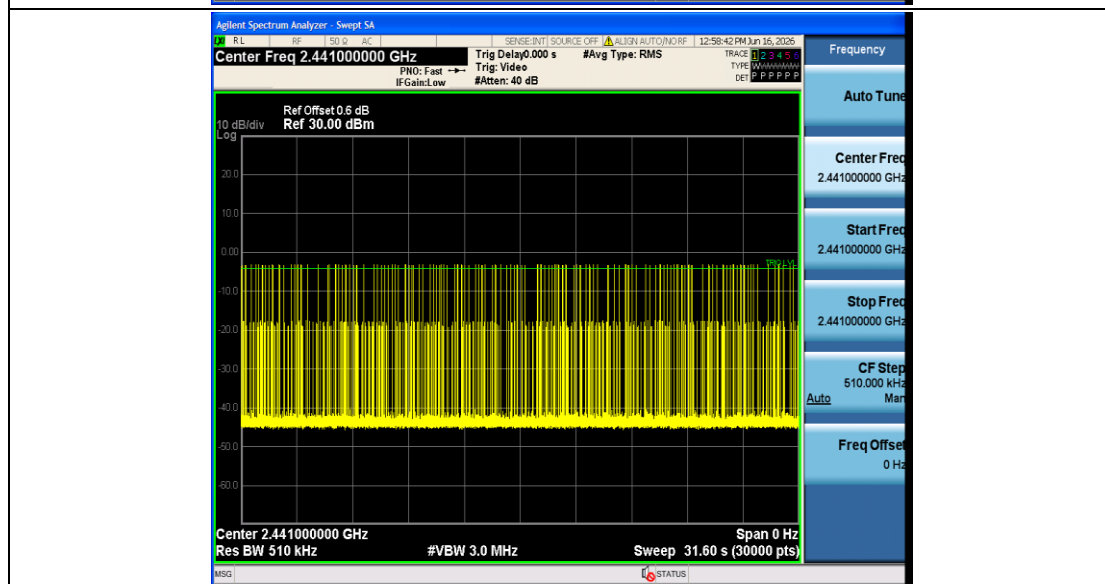
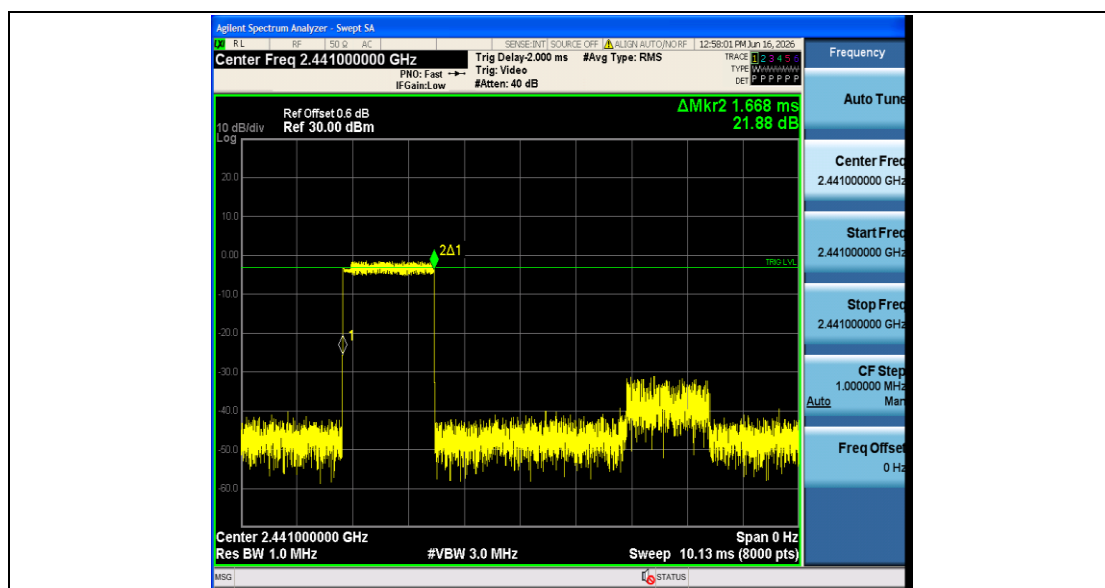




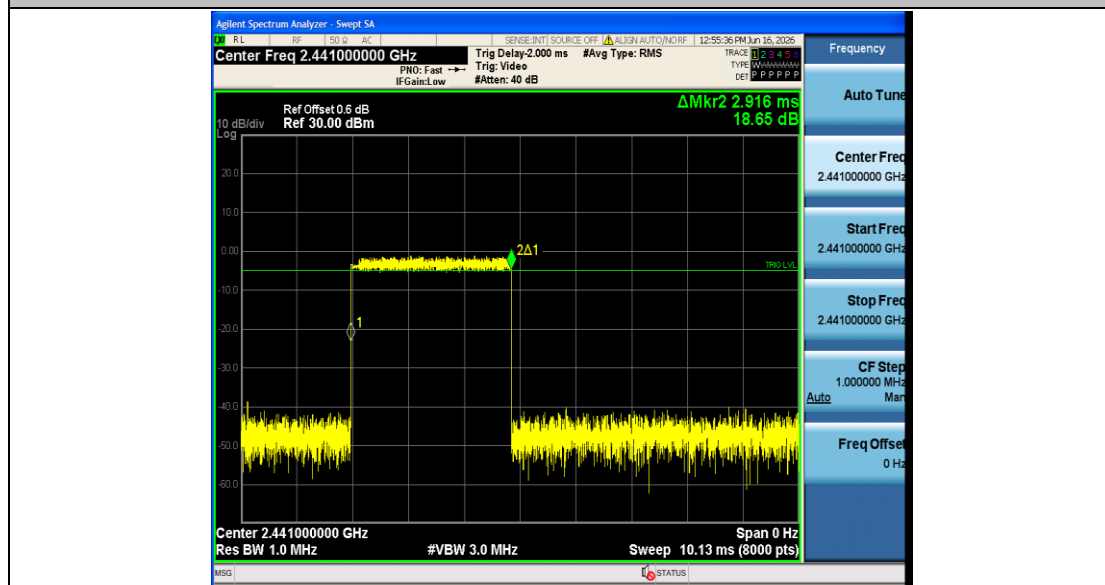
2DH1_Ant1_Hop

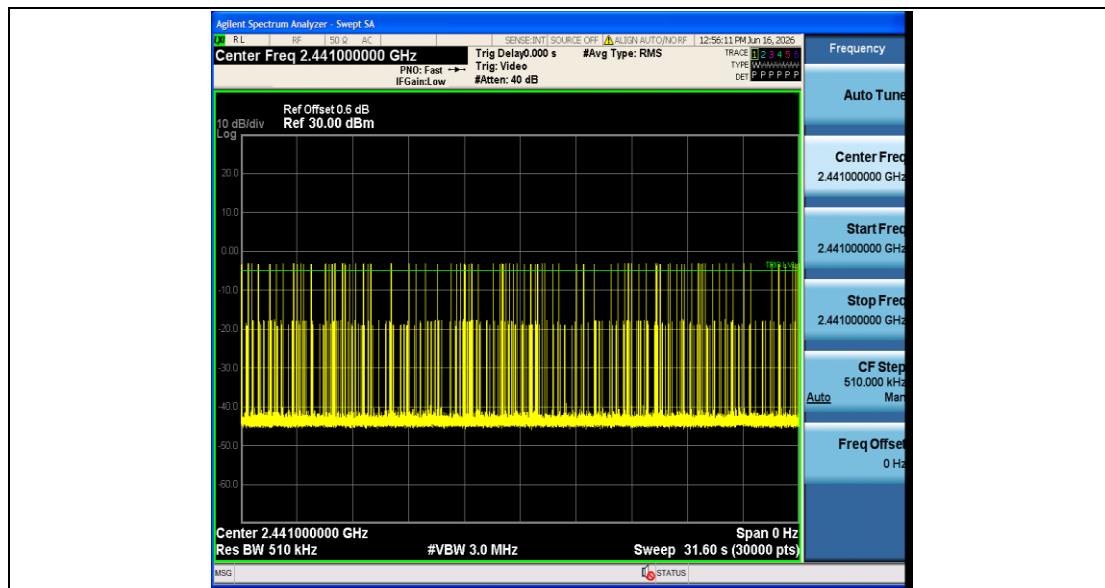


2DH3_Ant1_Hop



2DH5_Ant1_Hop



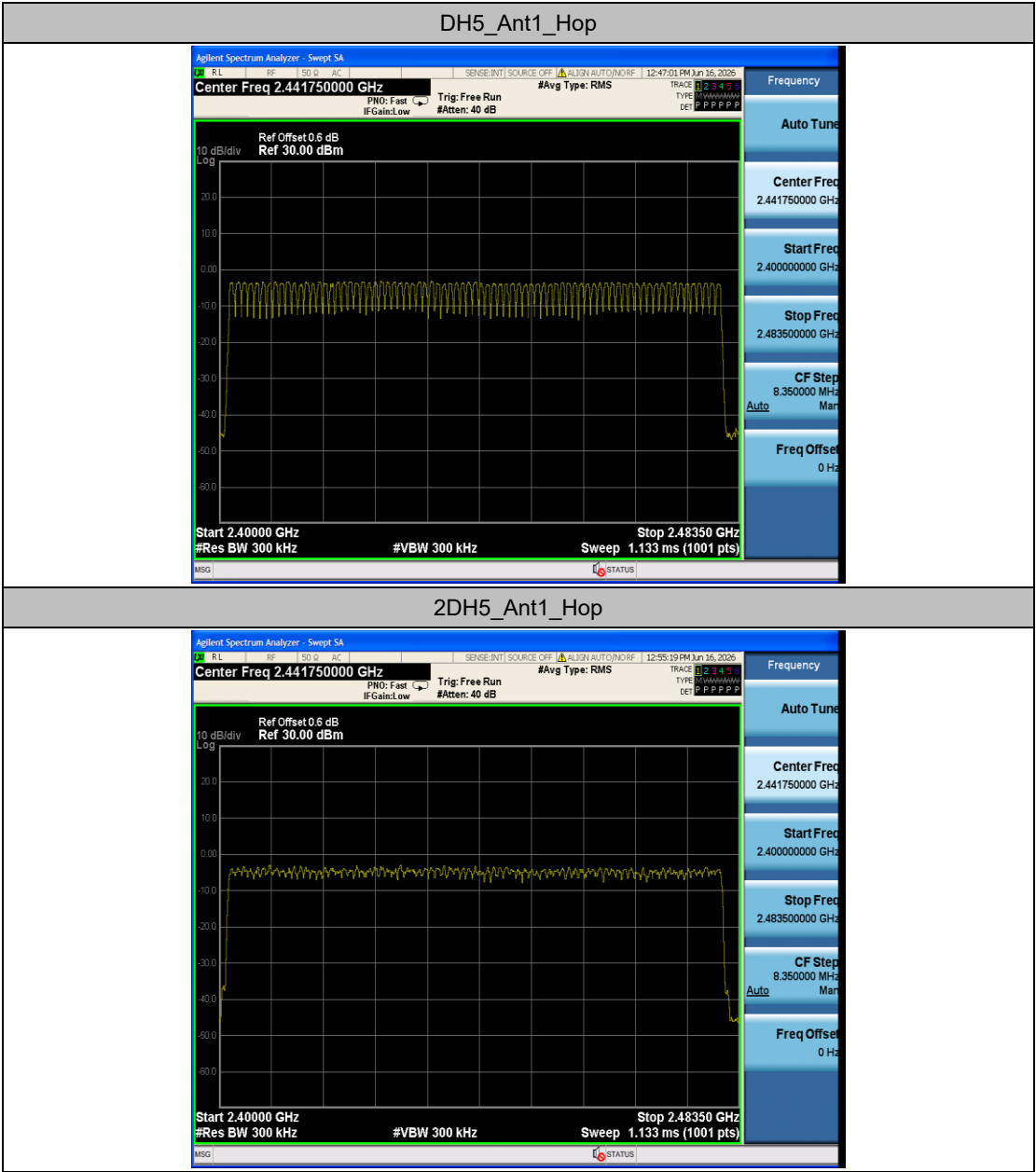


Appendix F: Number of hopping channels

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

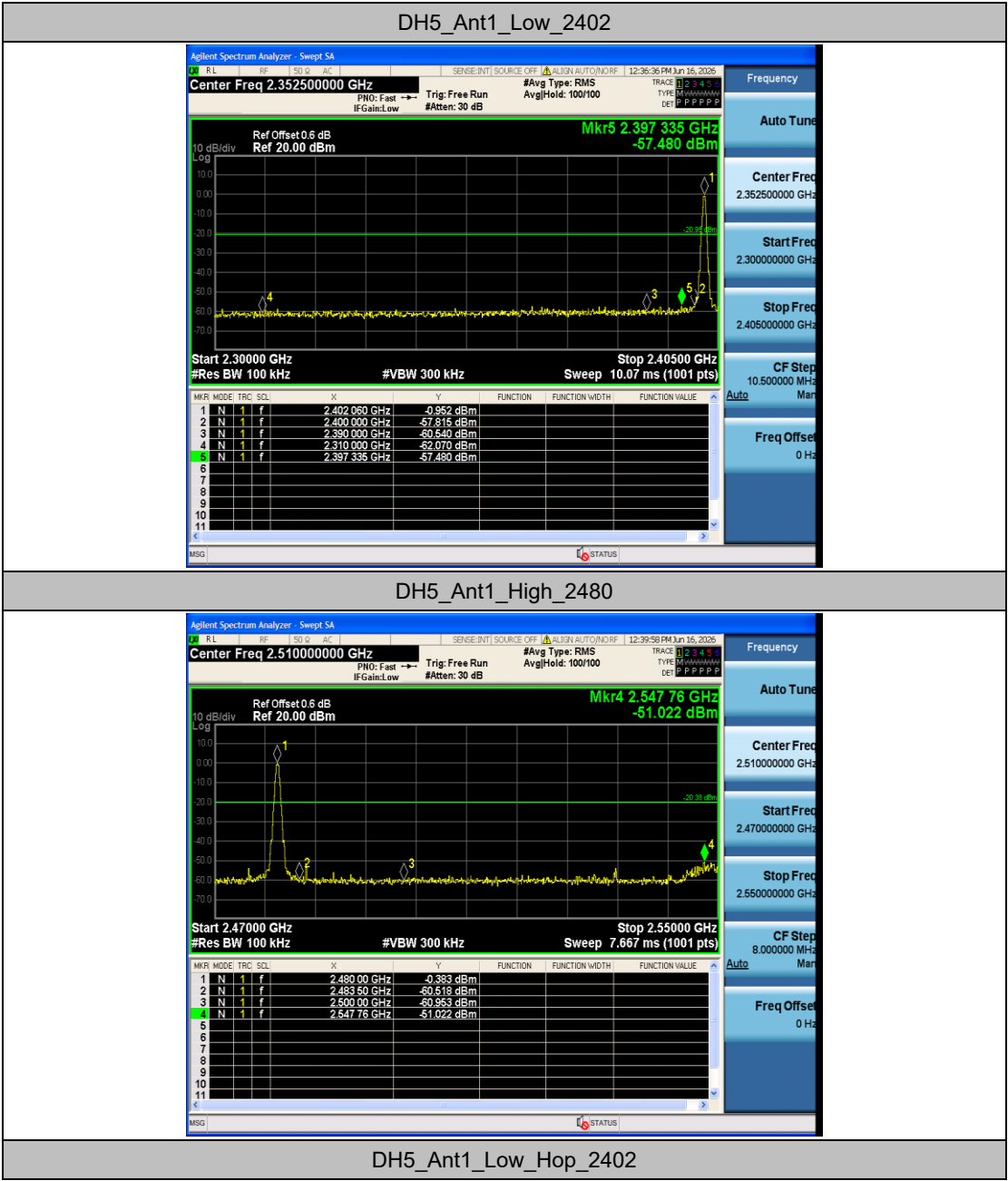


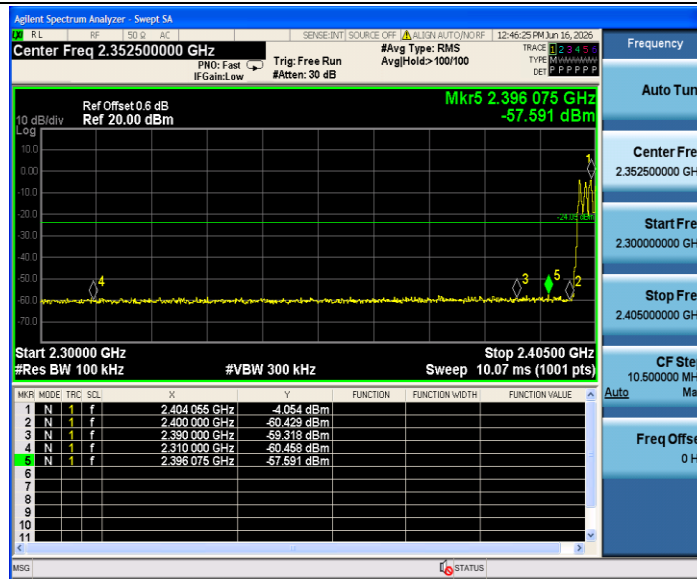
Appendix G: Band edge measurements

Test Result

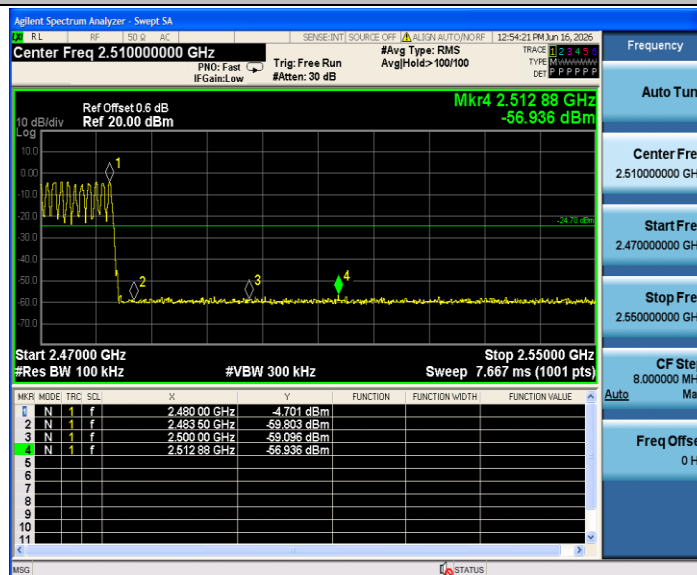
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.95	-57.48	≤-20.95	PASS
		High	2480	-0.38	-51.02	≤-20.38	PASS
		Low	Hop_2402	-4.05	-57.59	≤-24.05	PASS
		High	Hop_2480	-4.70	-56.94	≤-24.7	PASS
2DH5	Ant1	Low	2402	-3.53	-55.62	≤-23.53	PASS
		High	2480	-3.72	-53.86	≤-23.72	PASS
		Low	Hop_2402	-5.48	-56.9	≤-25.48	PASS
		High	Hop_2480	-4.31	-50.01	≤-24.31	PASS

Test Graphs

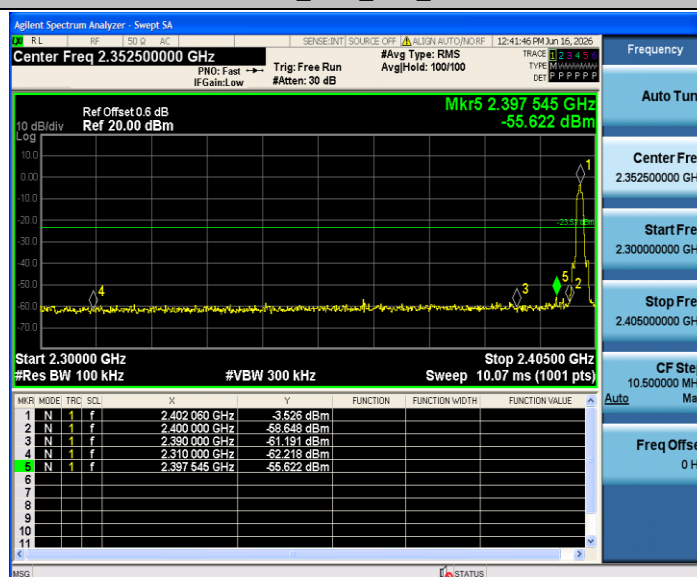




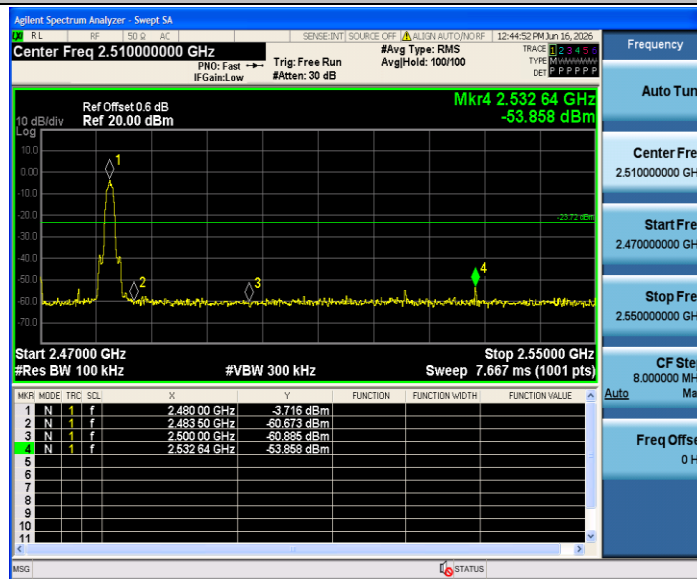
DH5_Ant1_High_Hop_2480



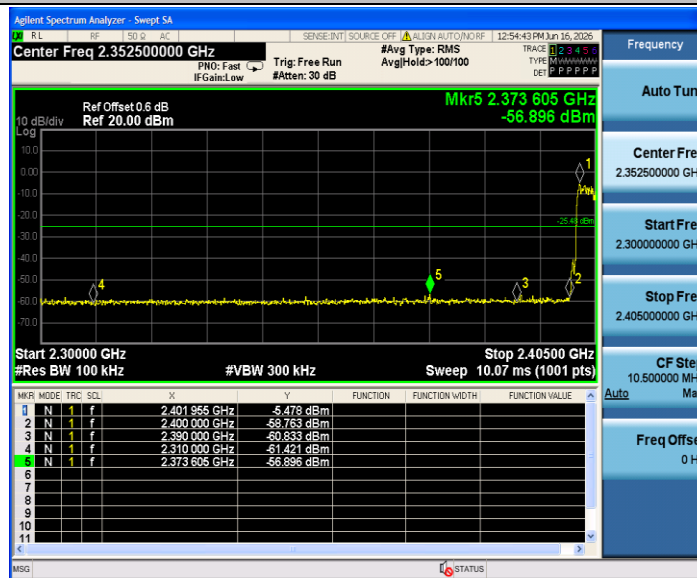
2DH5_Ant1_Low_2402



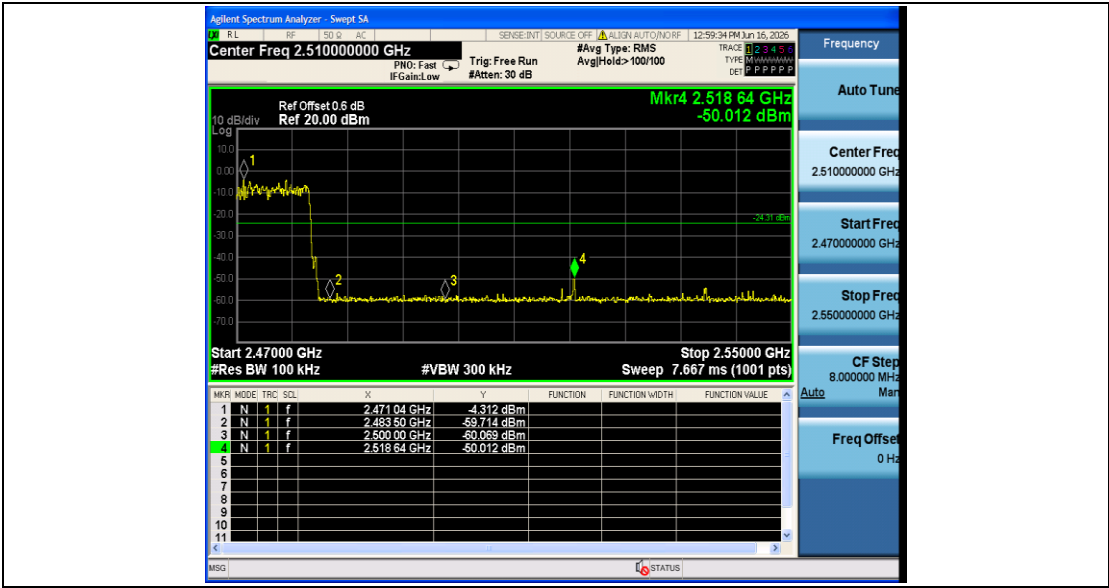
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

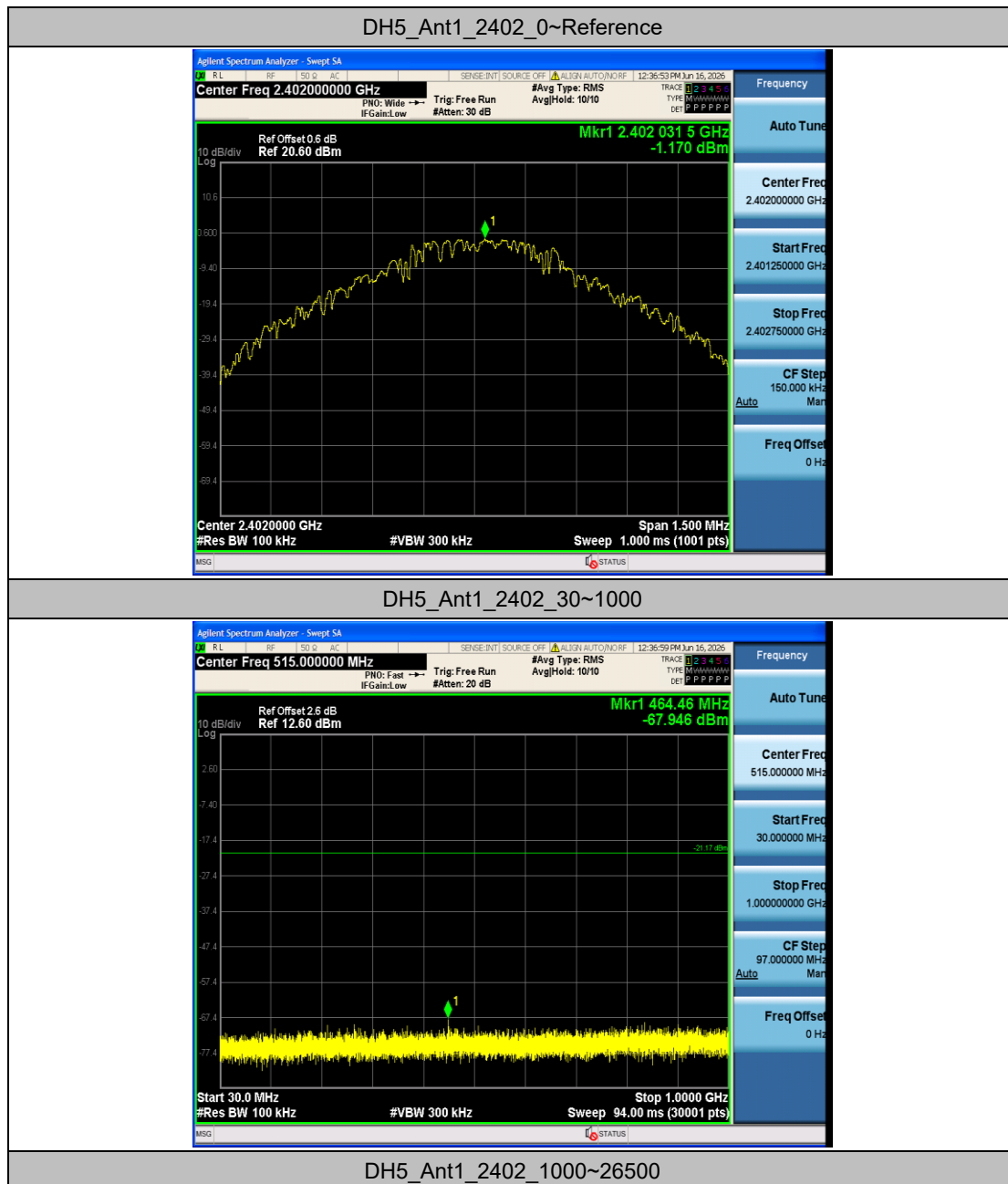


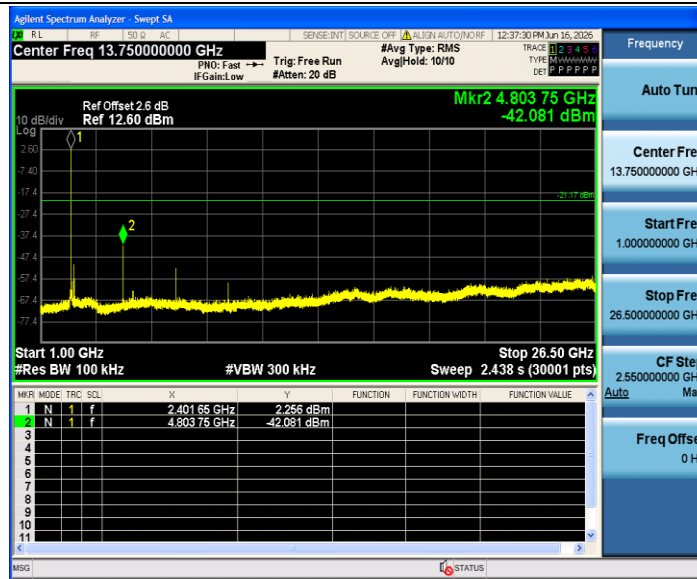
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-67.95	≤-21.17	PASS
			1000~26500	-1.17	-42.08	≤-21.17	PASS
		2441	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-69.26	≤-20.81	PASS
			1000~26500	-0.81	-42.02	≤-20.81	PASS
		2480	Reference	-1.20	-1.20	---	PASS
			30~1000	-1.20	-68.71	≤-21.2	PASS
			1000~26500	-1.20	-41.27	≤-21.2	PASS
2DH5	Ant1	2402	Reference	-6.90	-6.90	---	PASS
			30~1000	-6.90	-68.33	≤-26.9	PASS
			1000~26500	-6.90	-48.2	≤-26.9	PASS
		2441	Reference	-5.94	-5.94	---	PASS
			30~1000	-5.94	-68.48	≤-25.94	PASS
			1000~26500	-5.94	-48.18	≤-25.94	PASS
		2480	Reference	-6.31	-6.31	---	PASS
			30~1000	-6.31	-69	≤-26.31	PASS
			1000~26500	-6.31	-47.54	≤-26.31	PASS

Test Graphs

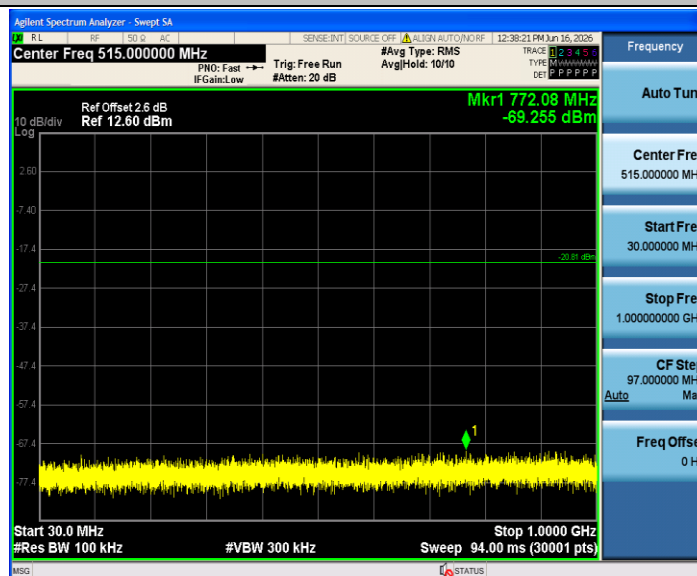




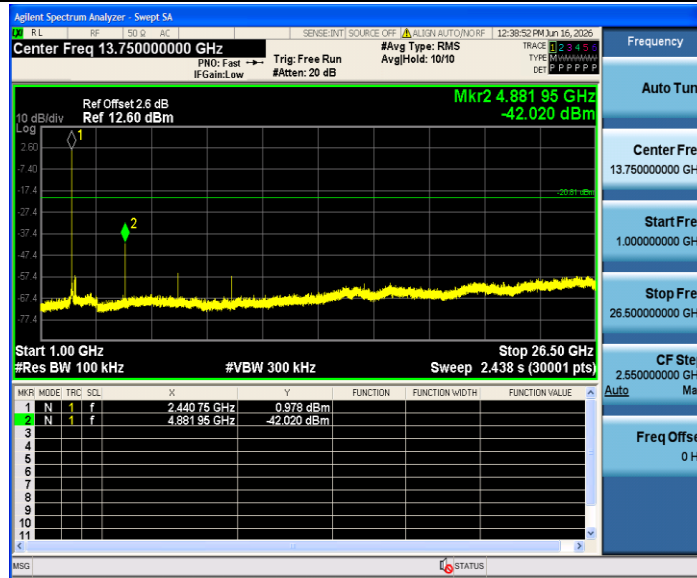
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



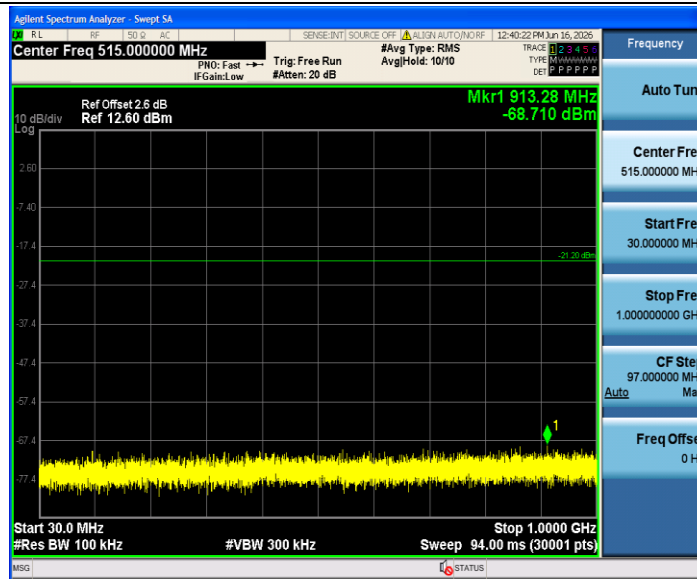
DH5_Ant1_2441_1000~26500



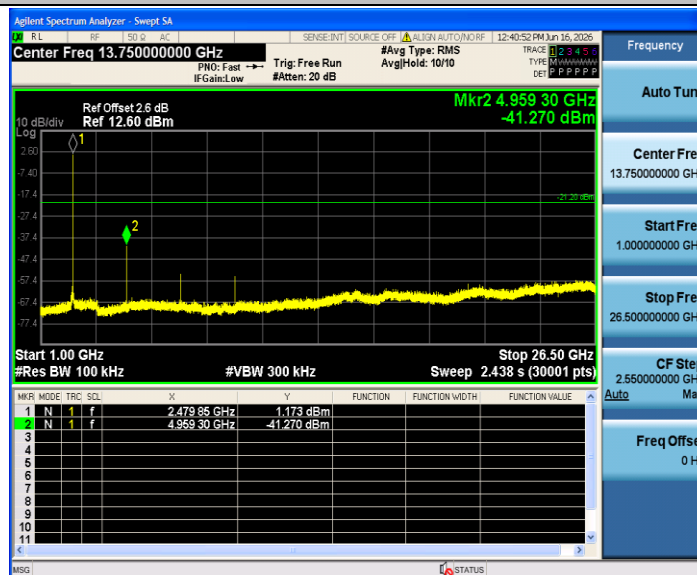
DH5_Ant1_2480_0~Reference



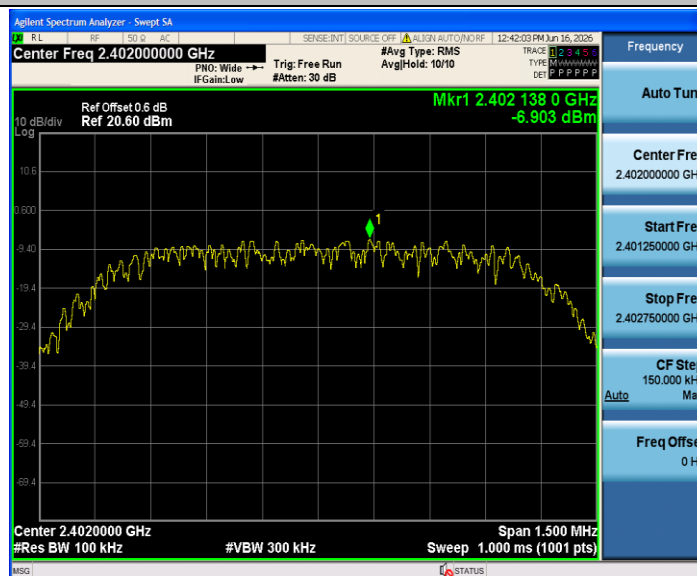
DH5_Ant1_2480_30~1000



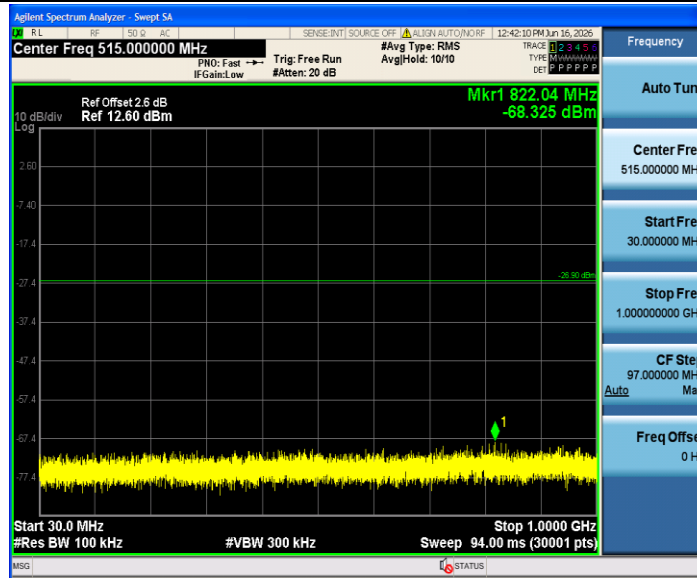
DH5_Ant1_2480_1000~26500



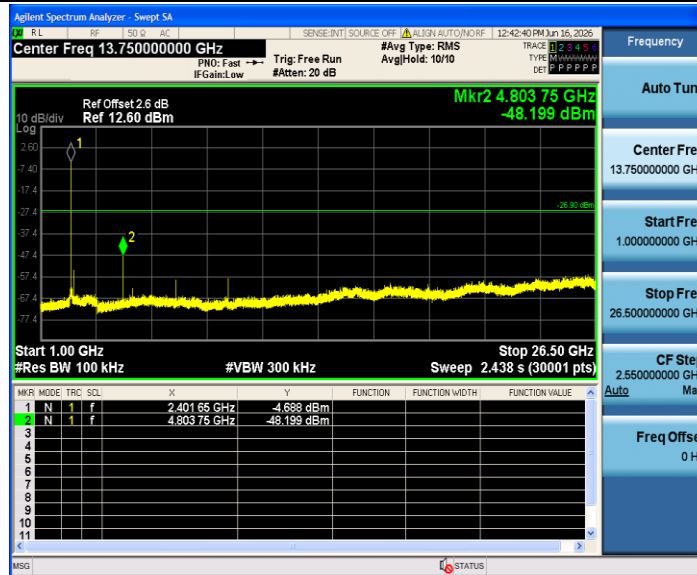
2DH5_Ant1_2402_0~Reference



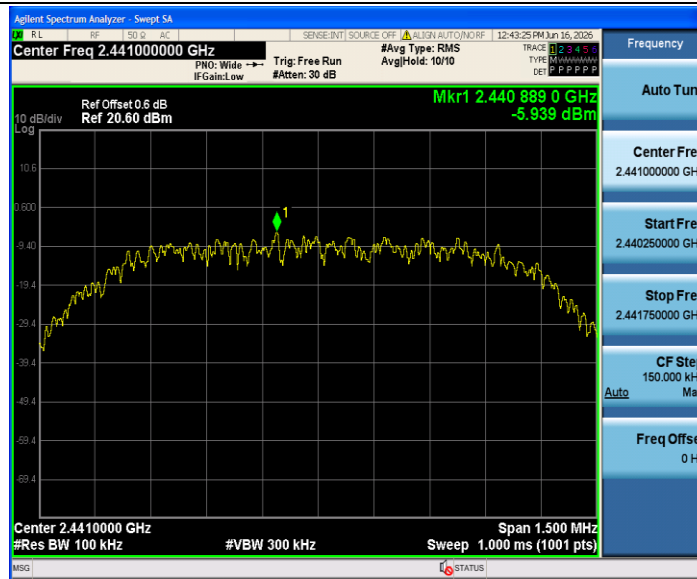
2DH5_Ant1_2402_30~1000



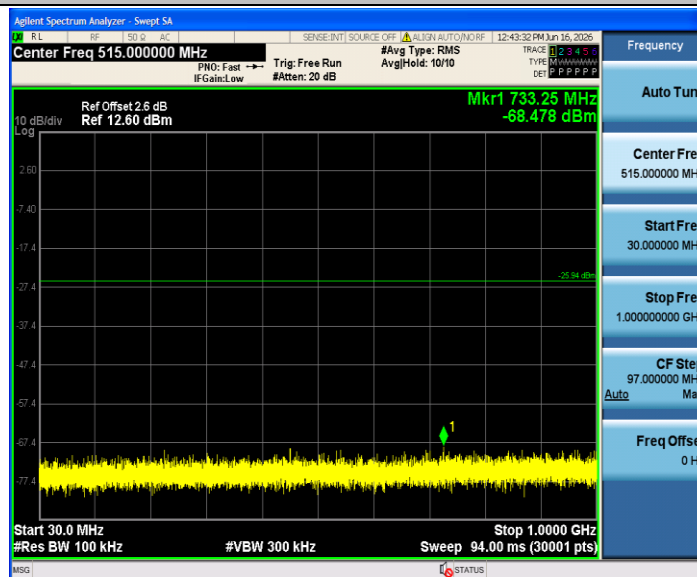
2DH5_Ant1_2402_1000~26500



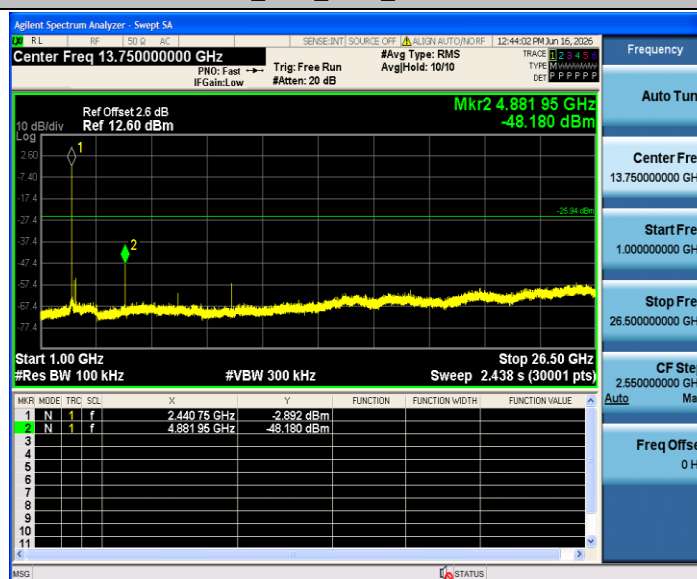
2DH5_Ant1_2441_0~Reference



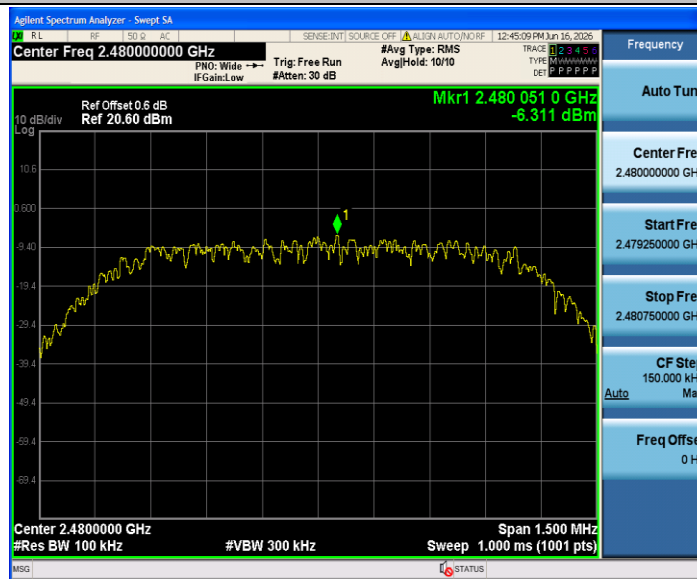
2DH5_Ant1_2441_30~1000



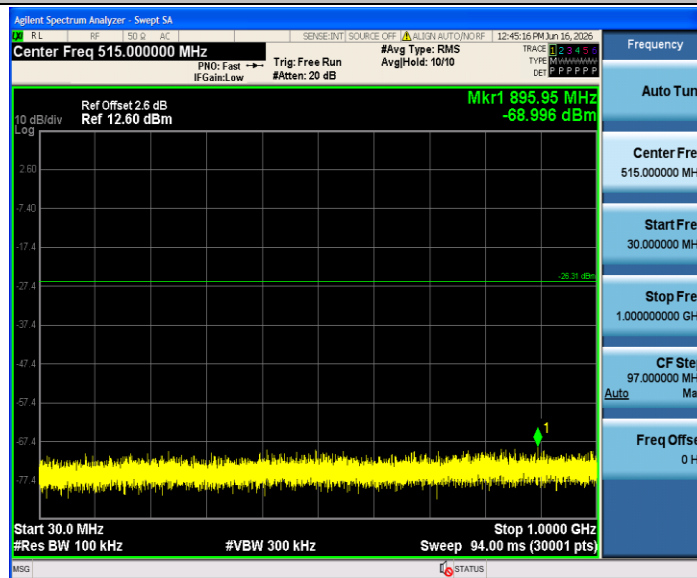
2DH5_Ant1_2441_1000~26500



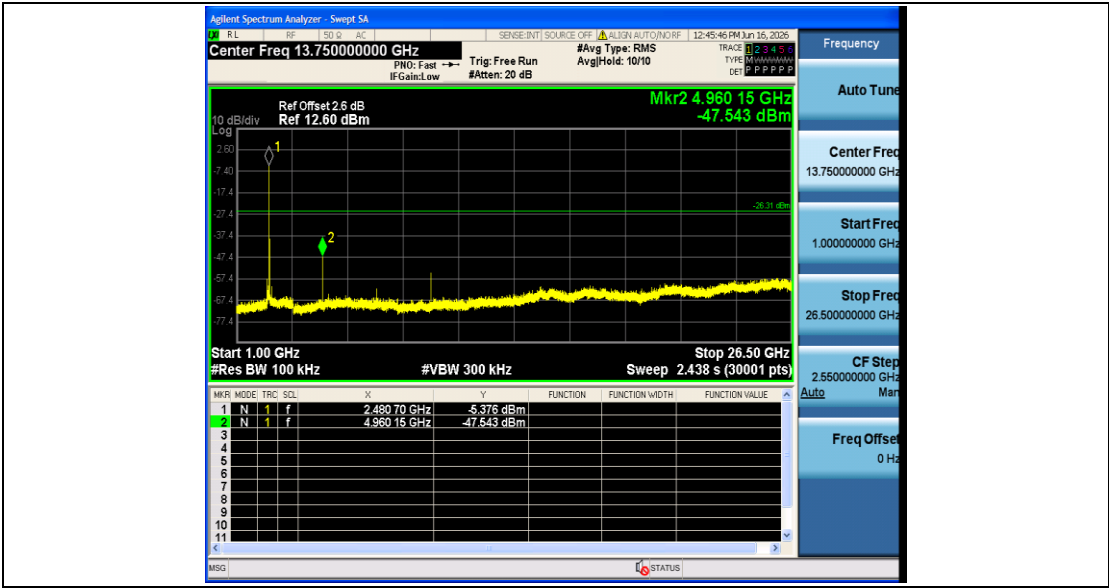
2DH5_Ant1_2480_0~Reference



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	3.76	77.66	1.10	---	---
2DH5	Ant1	2402	2.92	3.76	77.66	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---