

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Label Printer

Trade Mark: MakeID

Test Model: D50

FCC ID: 2BLKN-D50

Environmental Conditions

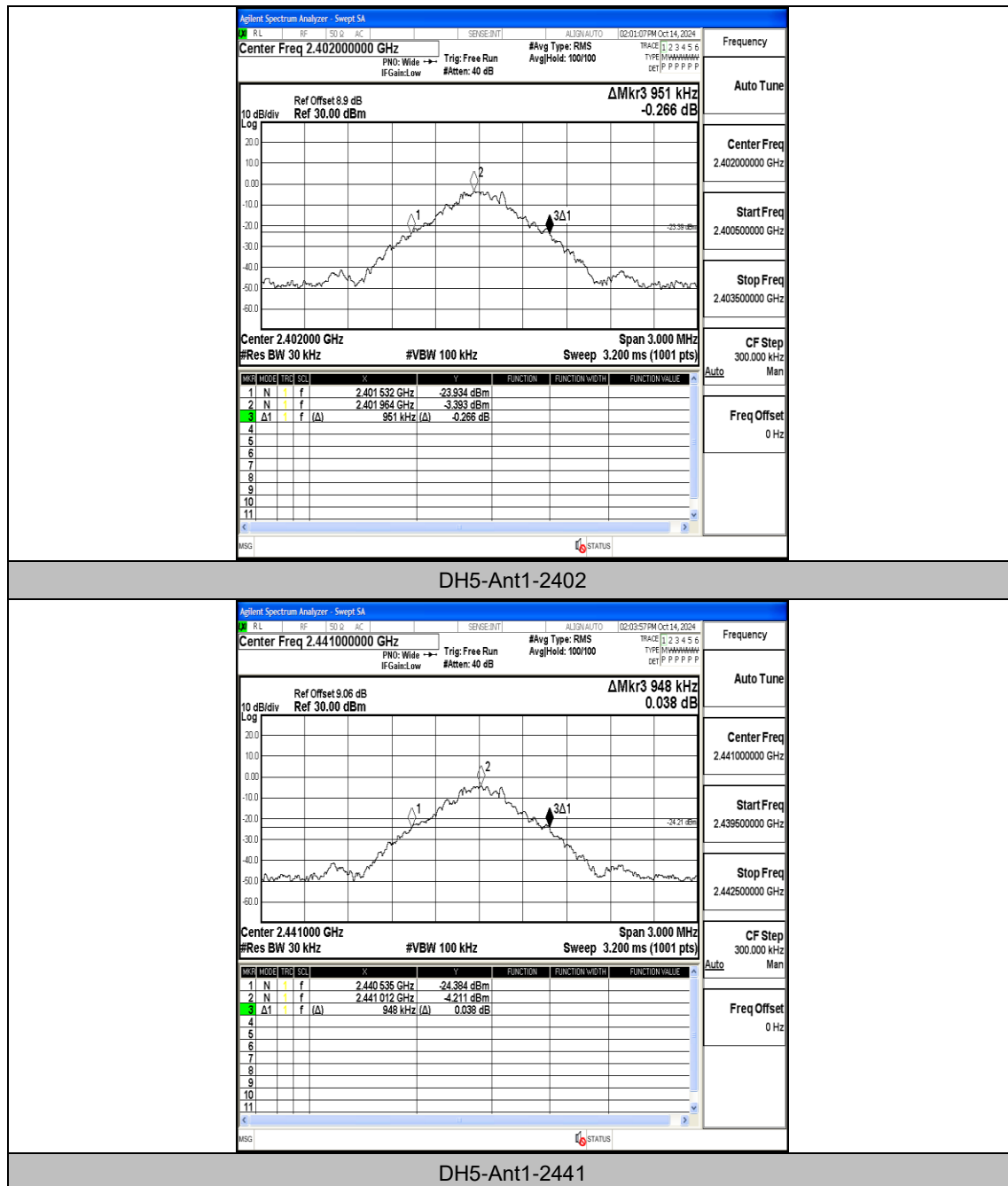
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

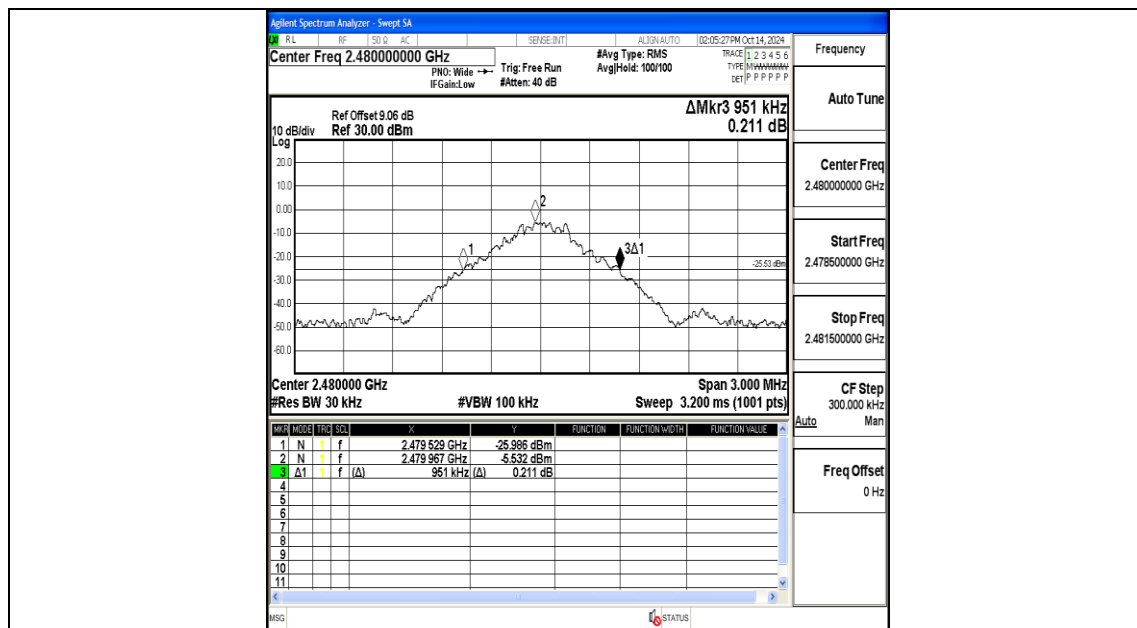
Appendix A: 20dB Emission Bandwidth

Test Result

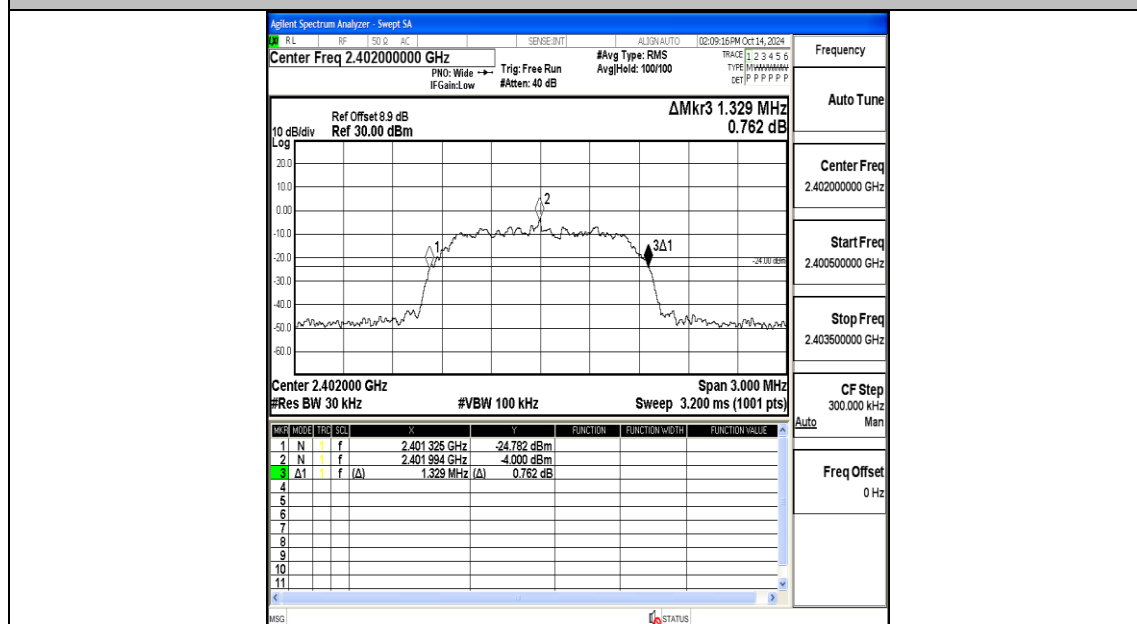
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.951	2401.532	2402.483	---	---
DH5	Ant1	2441	0.948	2440.535	2441.483	---	---
DH5	Ant1	2480	0.951	2479.529	2480.480	---	---
2DH5	Ant1	2402	1.329	2401.325	2402.654	---	---
2DH5	Ant1	2441	1.326	2440.325	2441.651	---	---
2DH5	Ant1	2480	1.311	2479.328	2480.639	---	---
3DH5	Ant1	2402	1.317	2401.325	2402.642	---	---
3DH5	Ant1	2441	1.317	2440.337	2441.654	---	---
3DH5	Ant1	2480	1.305	2479.337	2480.642	---	---

Test Graphs

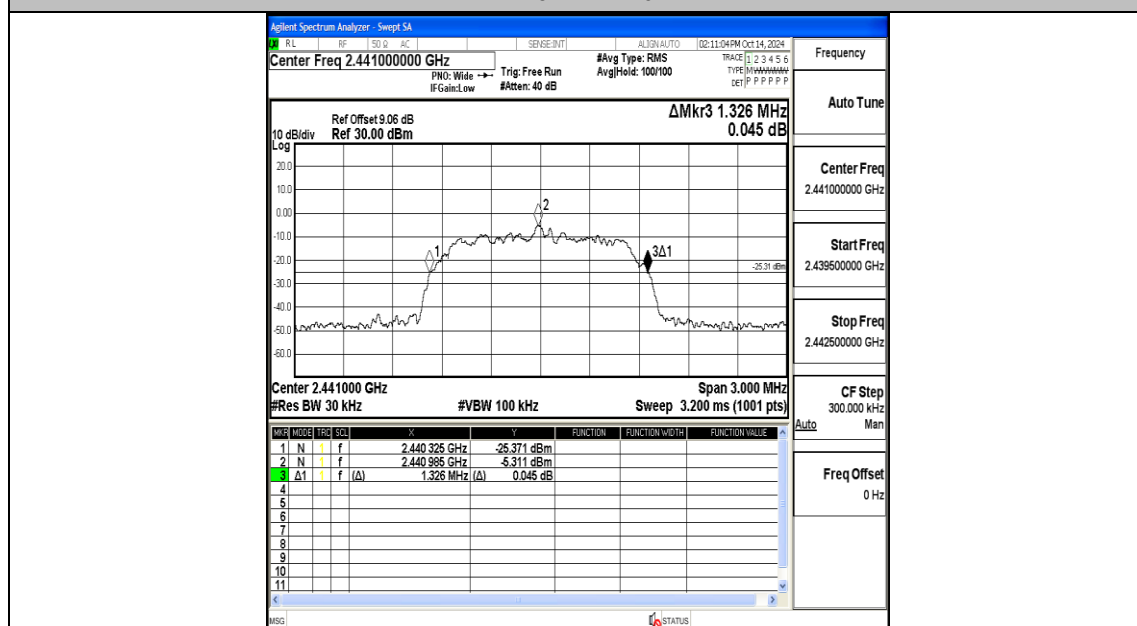




DH5-Ant1-2480

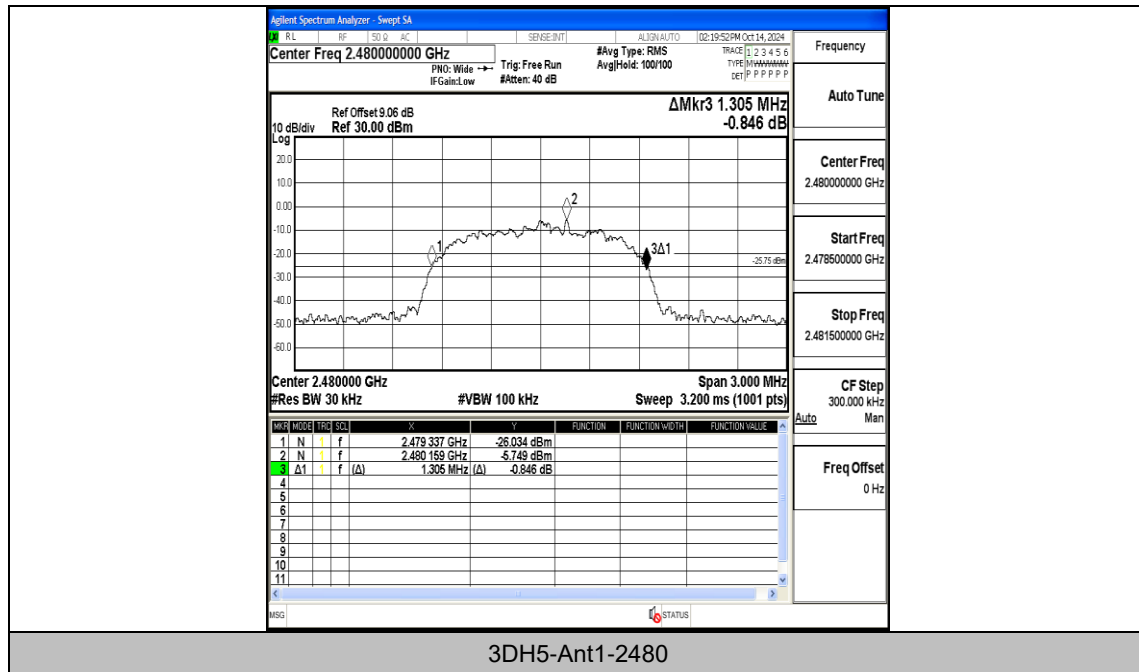


2DH5-Ant1-2402



2DH5-Ant1-2441



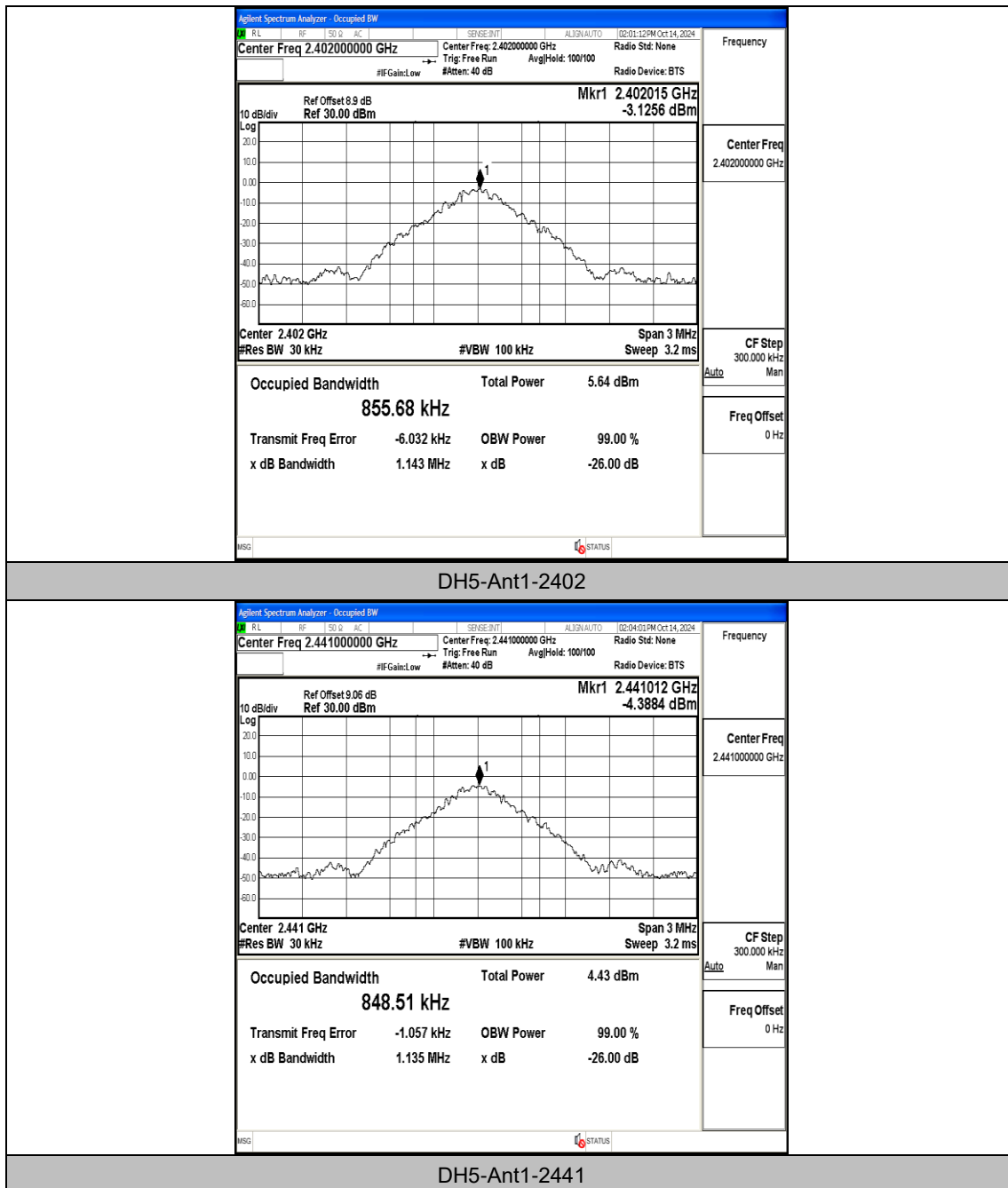


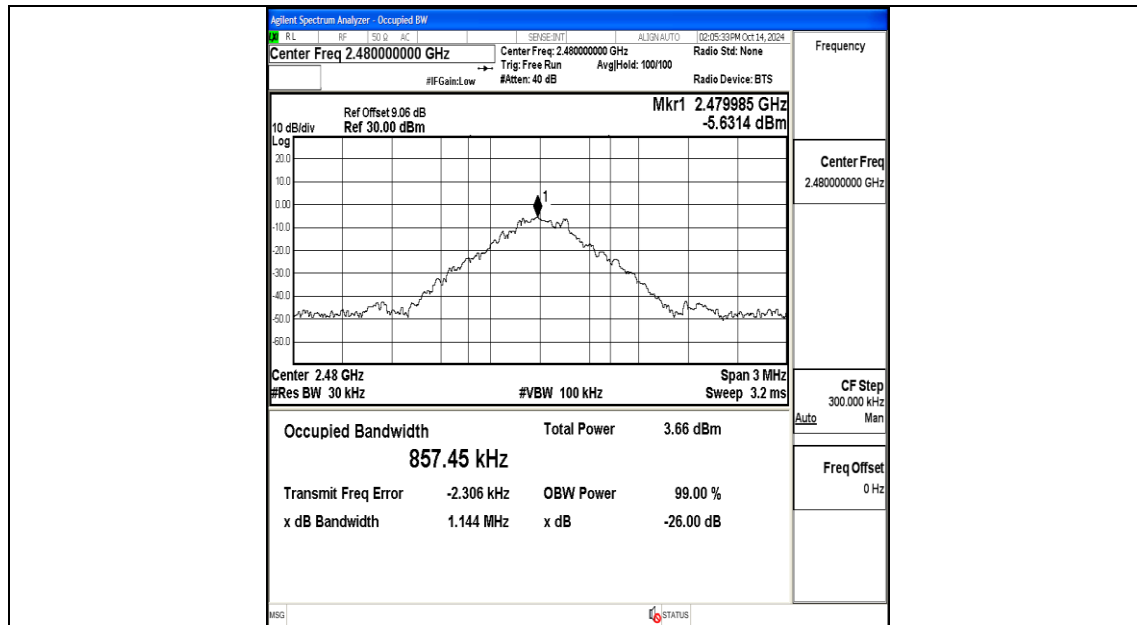
Appendix B: Occupied Channel Bandwidth

Test Result

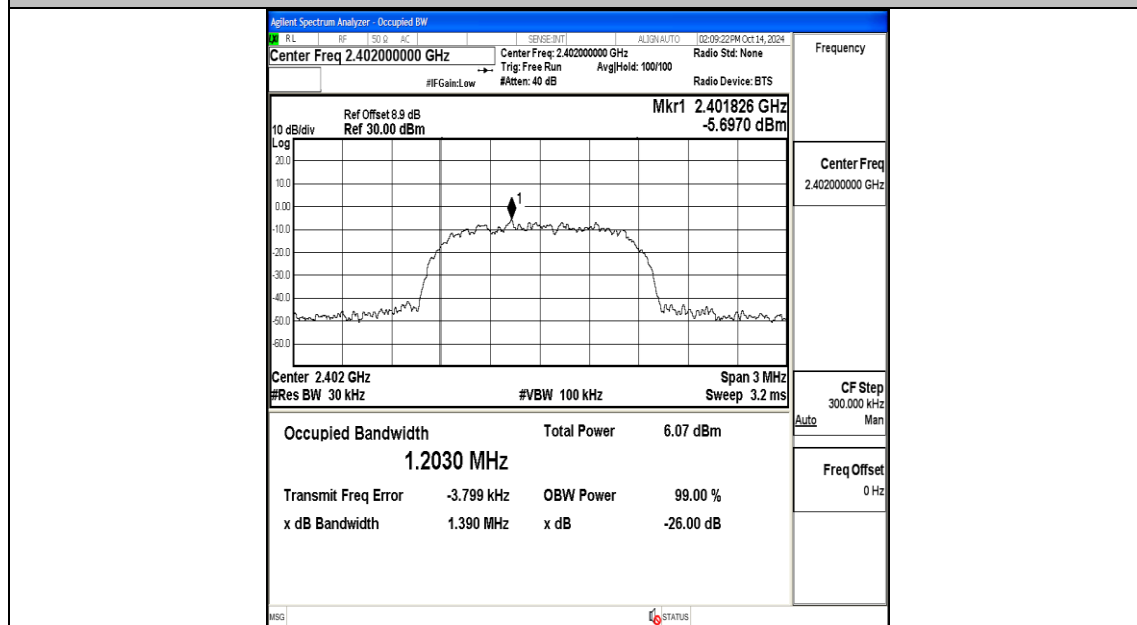
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.85568	2401.5661	2402.4218	---	---
DH5	Ant1	2441	0.84851	2440.5747	2441.4232	---	---
DH5	Ant1	2480	0.85745	2479.5690	2480.4264	---	---
2DH5	Ant1	2402	1.2030	2401.3947	2402.5977	---	---
2DH5	Ant1	2441	1.1907	2440.4005	2441.5912	---	---
2DH5	Ant1	2480	1.1994	2479.3945	2480.5939	---	---
3DH5	Ant1	2402	1.1985	2401.3918	2402.5903	---	---
3DH5	Ant1	2441	1.1934	2440.3976	2441.5910	---	---
3DH5	Ant1	2480	1.1972	2479.3942	2480.5914	---	---

Test Graphs

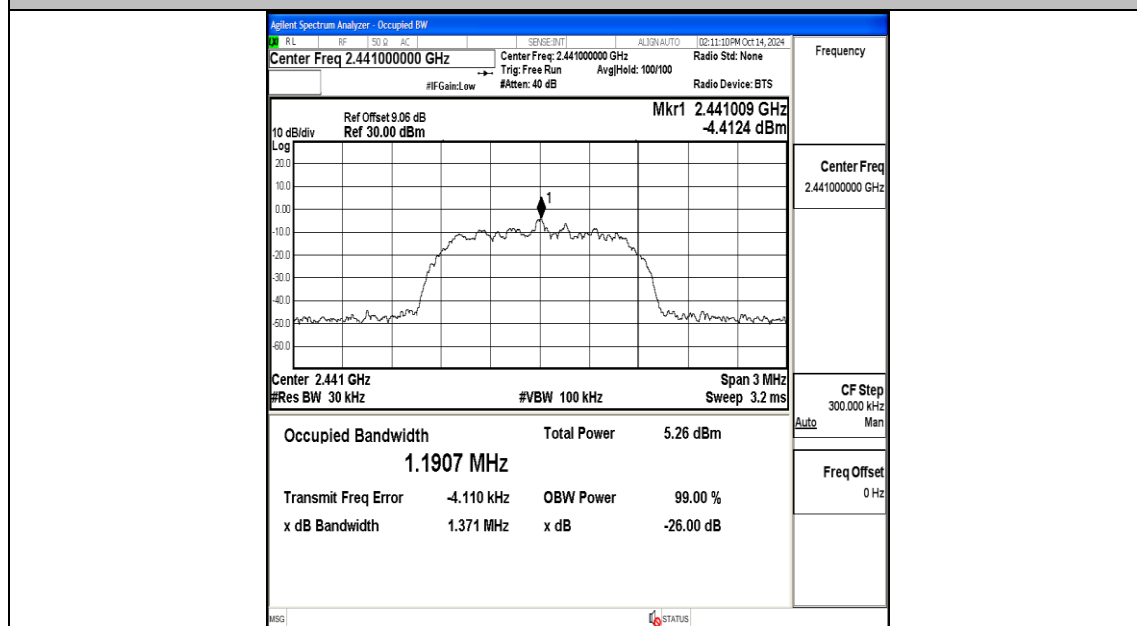




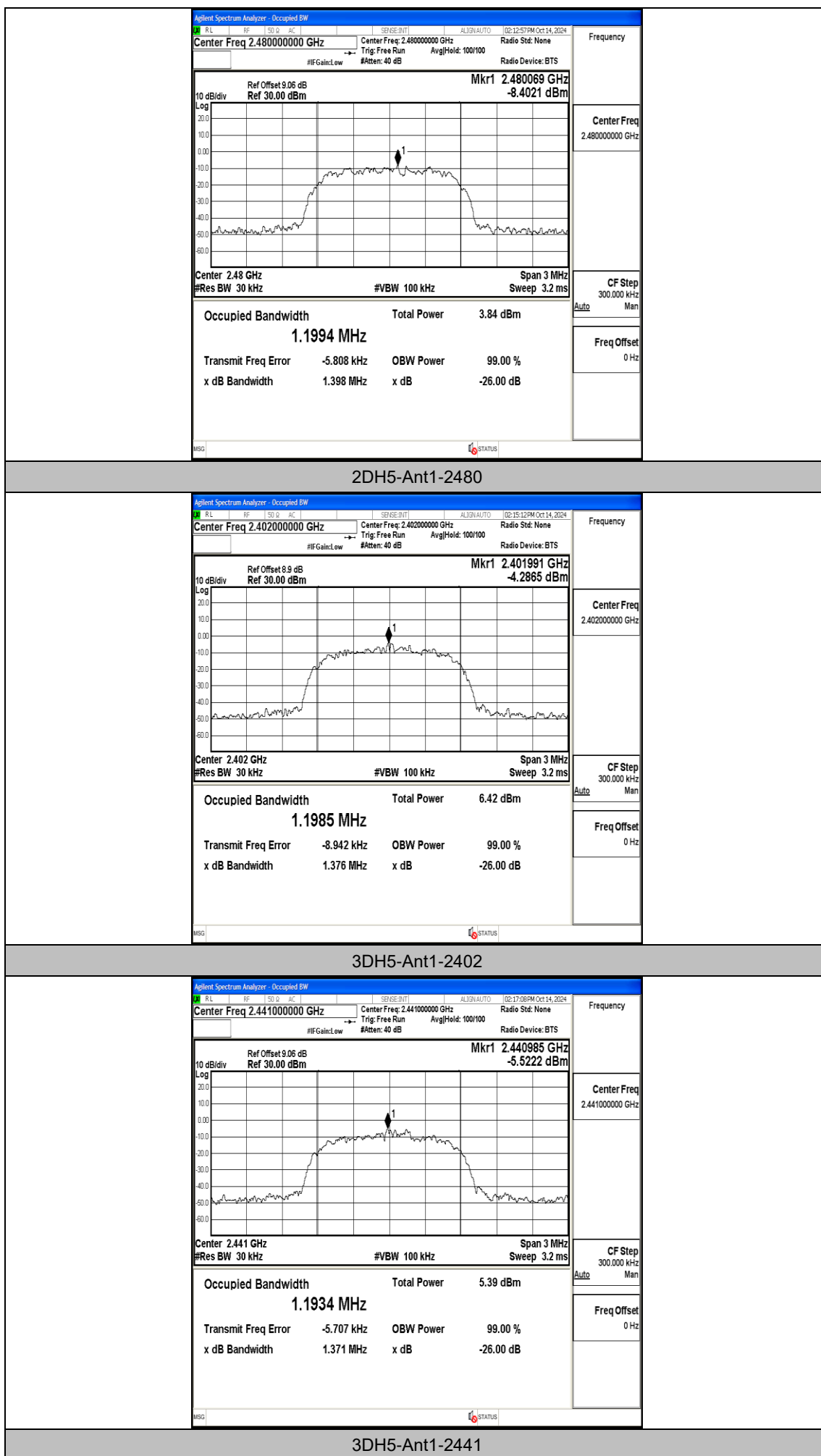
DH5-Ant1-2480

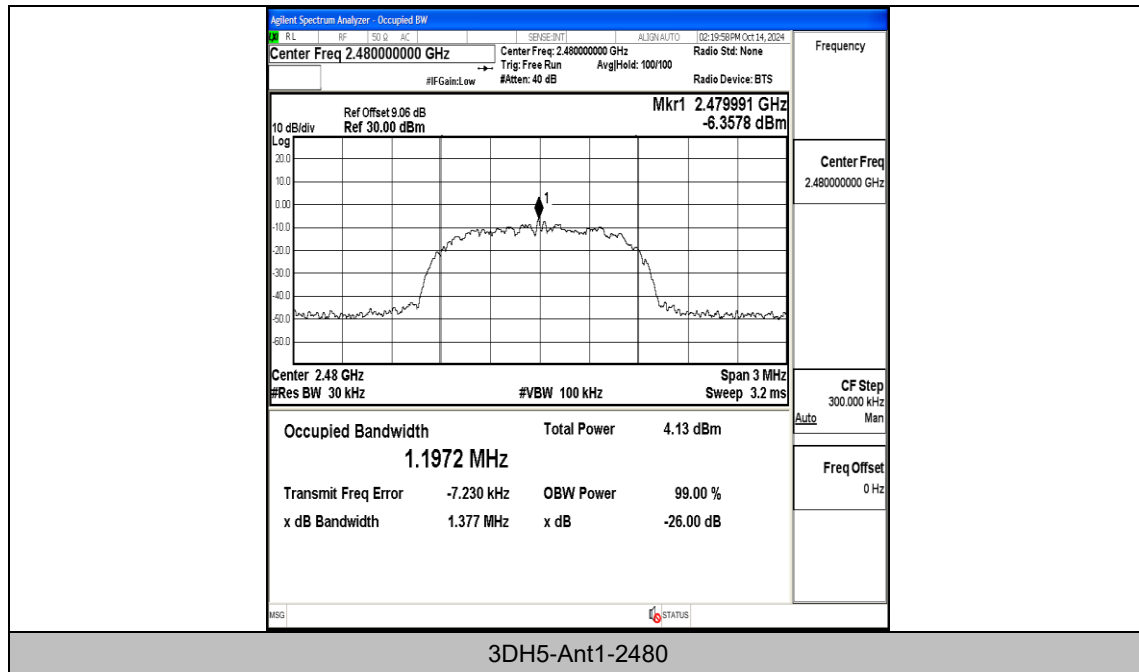


2DH5-Ant1-2402



2DH5-Ant1-2441



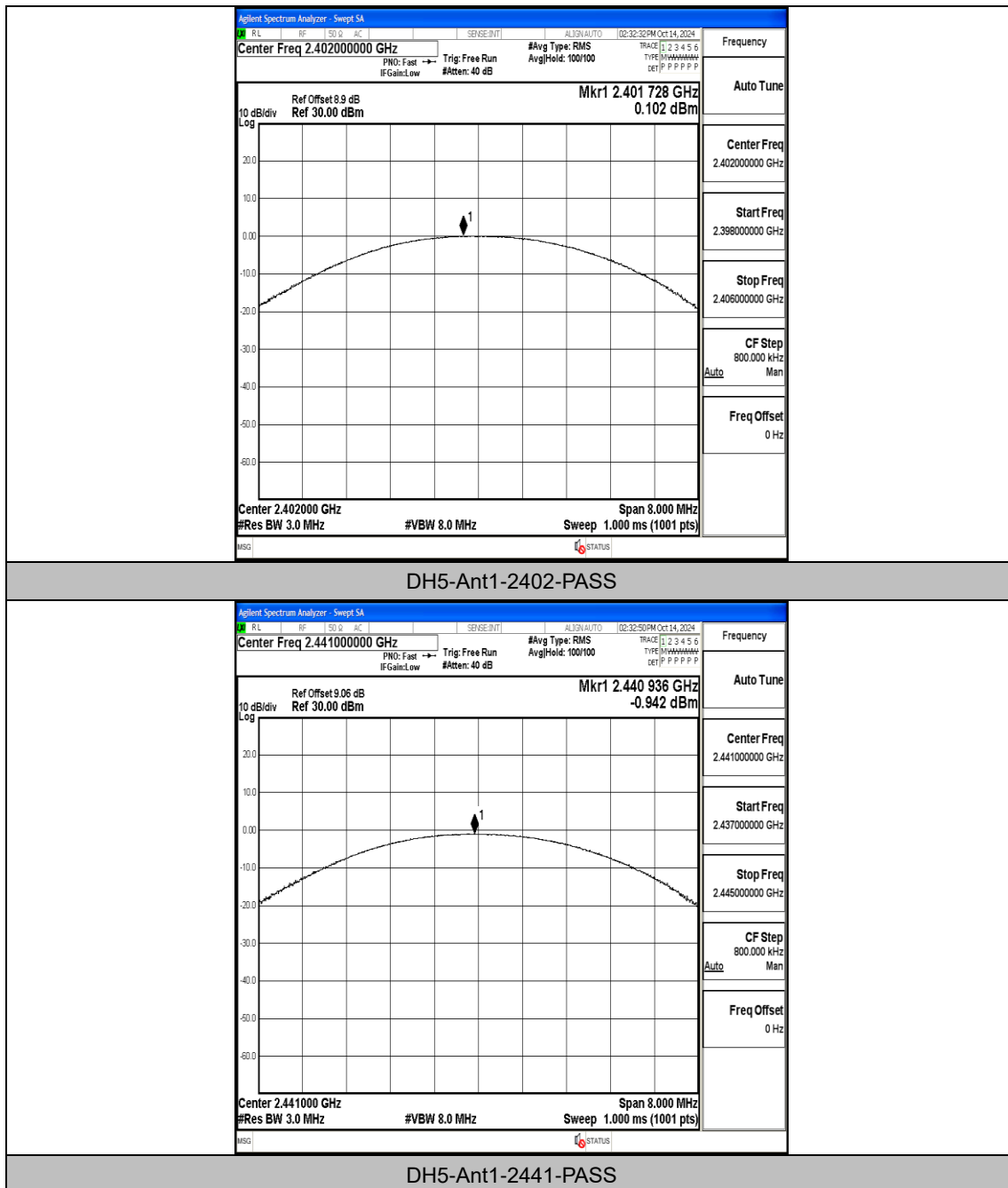


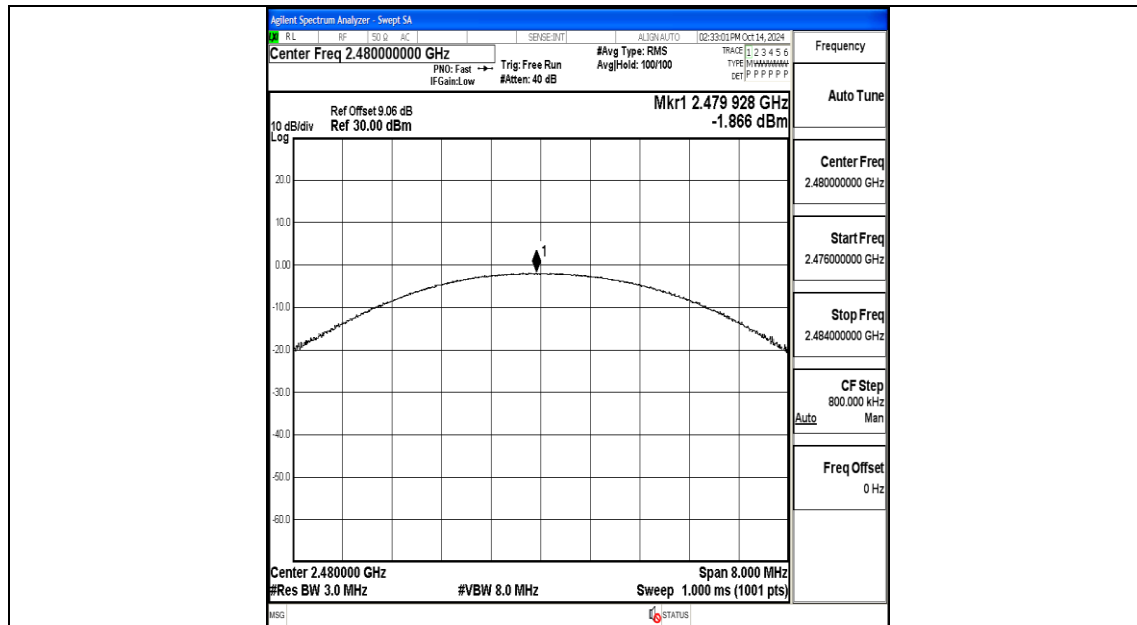
Appendix C: Maximum peak conducted output power

Test Result

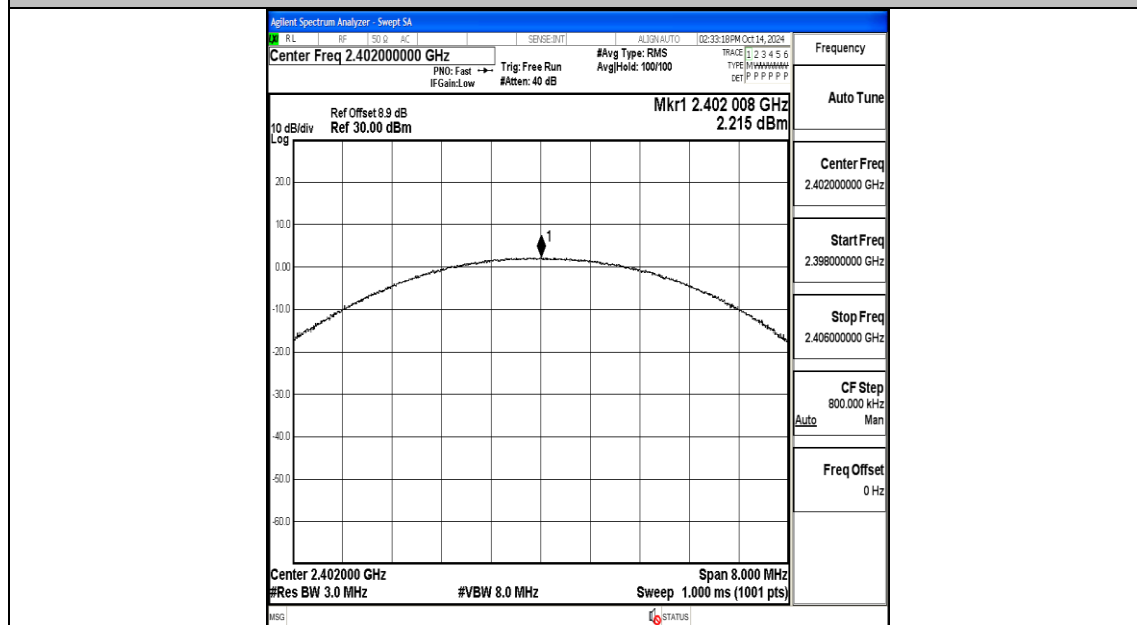
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	0.10	≤30	PASS
DH5	Ant1	2441	-0.94	≤30	PASS
DH5	Ant1	2480	-1.87	≤30	PASS
2DH5	Ant1	2402	2.22	≤20.97	PASS
2DH5	Ant1	2441	1.23	≤20.97	PASS
2DH5	Ant1	2480	0.20	≤20.97	PASS
3DH5	Ant1	2402	2.87	≤20.97	PASS
3DH5	Ant1	2441	1.62	≤20.97	PASS
3DH5	Ant1	2480	0.64	≤20.97	PASS

Test Graphs

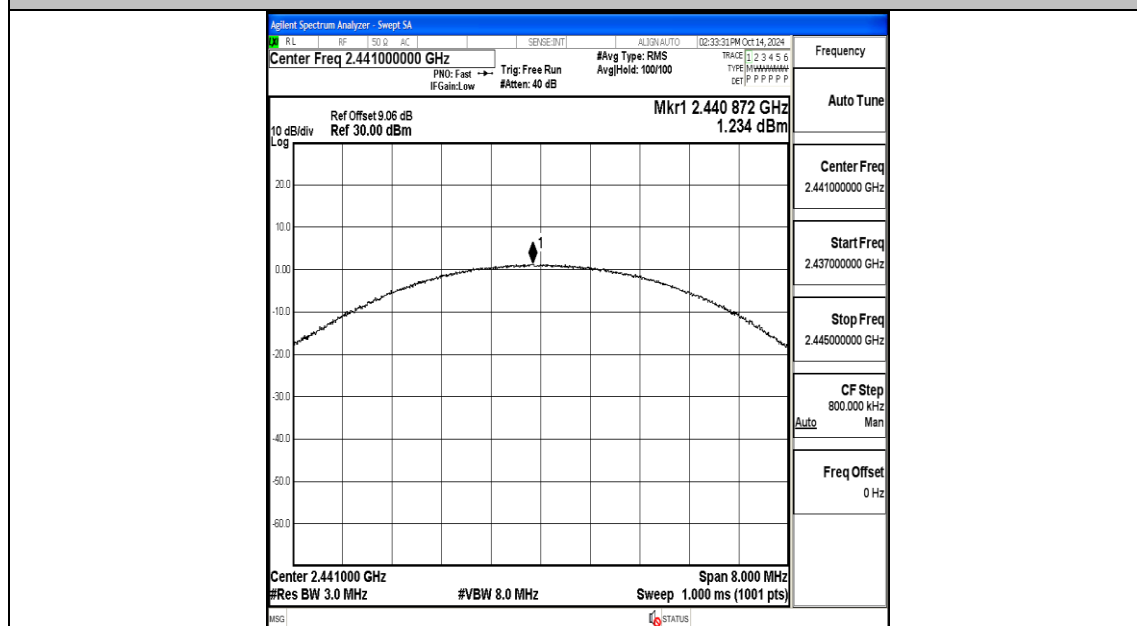




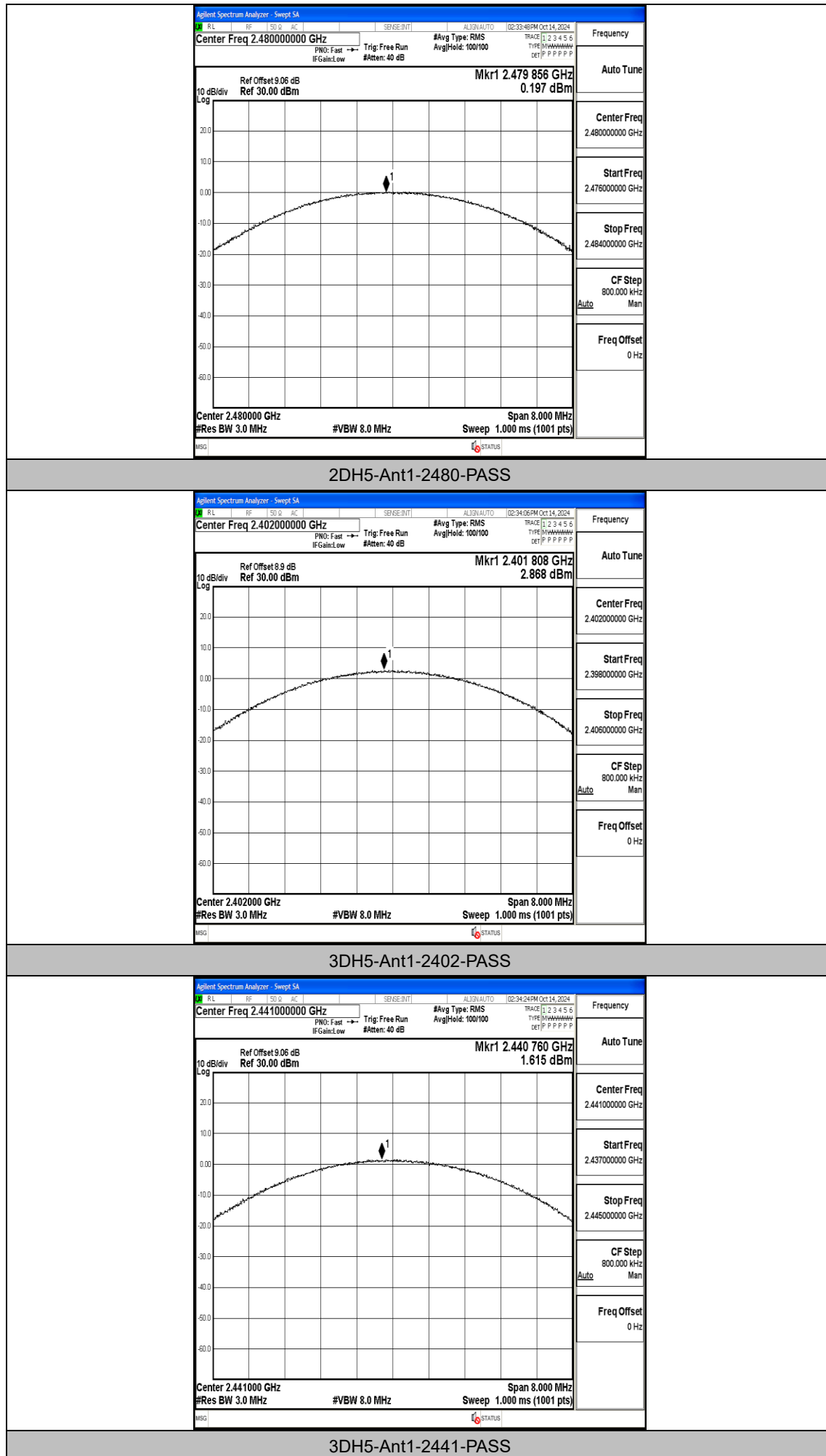
DH5-Ant1-2480-PASS

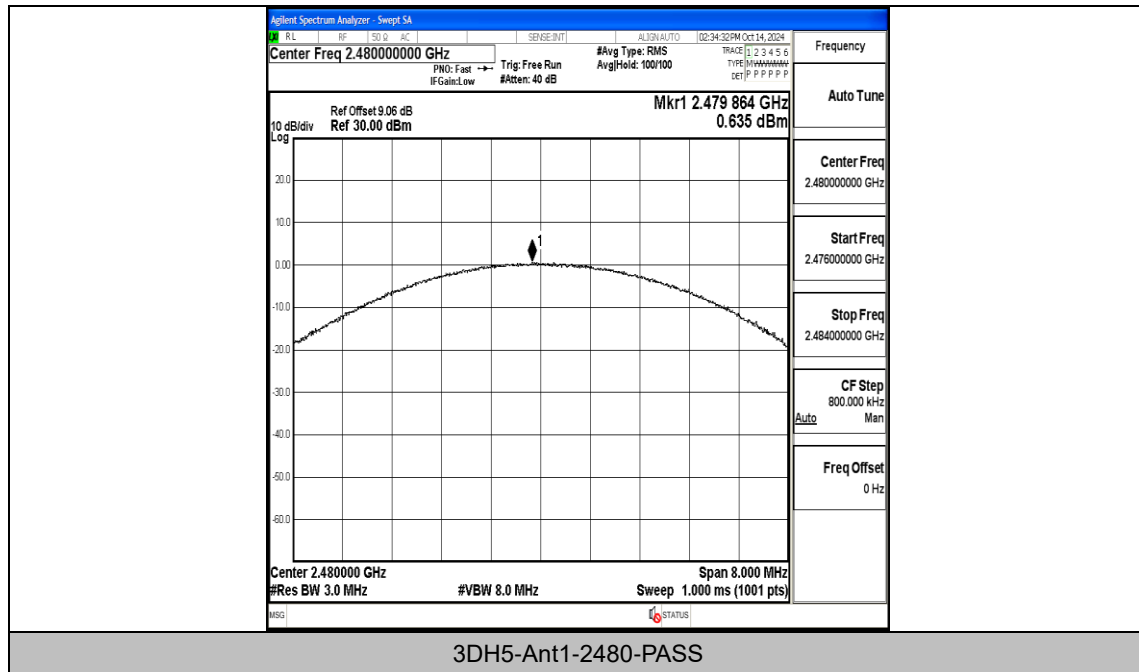


2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



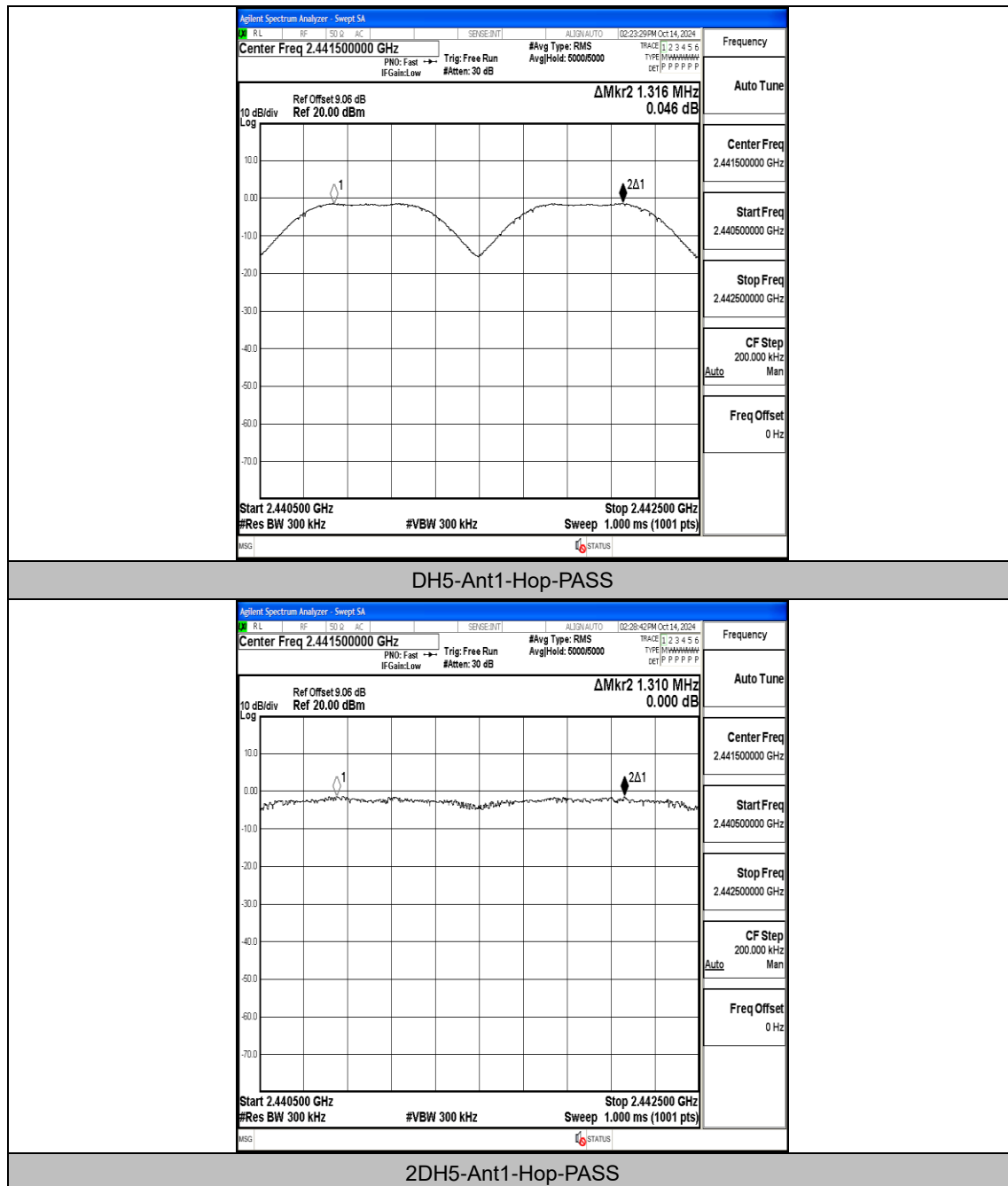


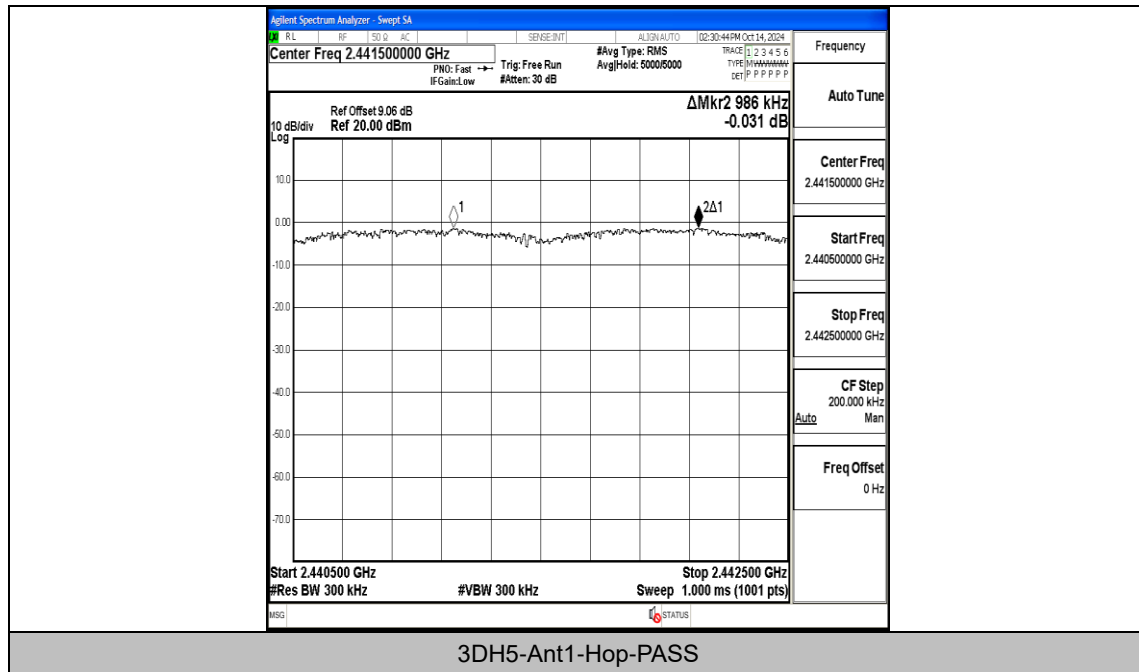
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.316	≥ 0.951	PASS
2DH5	Ant1	Hop	1.31	≥ 0.886	PASS
3DH5	Ant1	Hop	0.986	≥ 0.878	PASS

Test Graphs



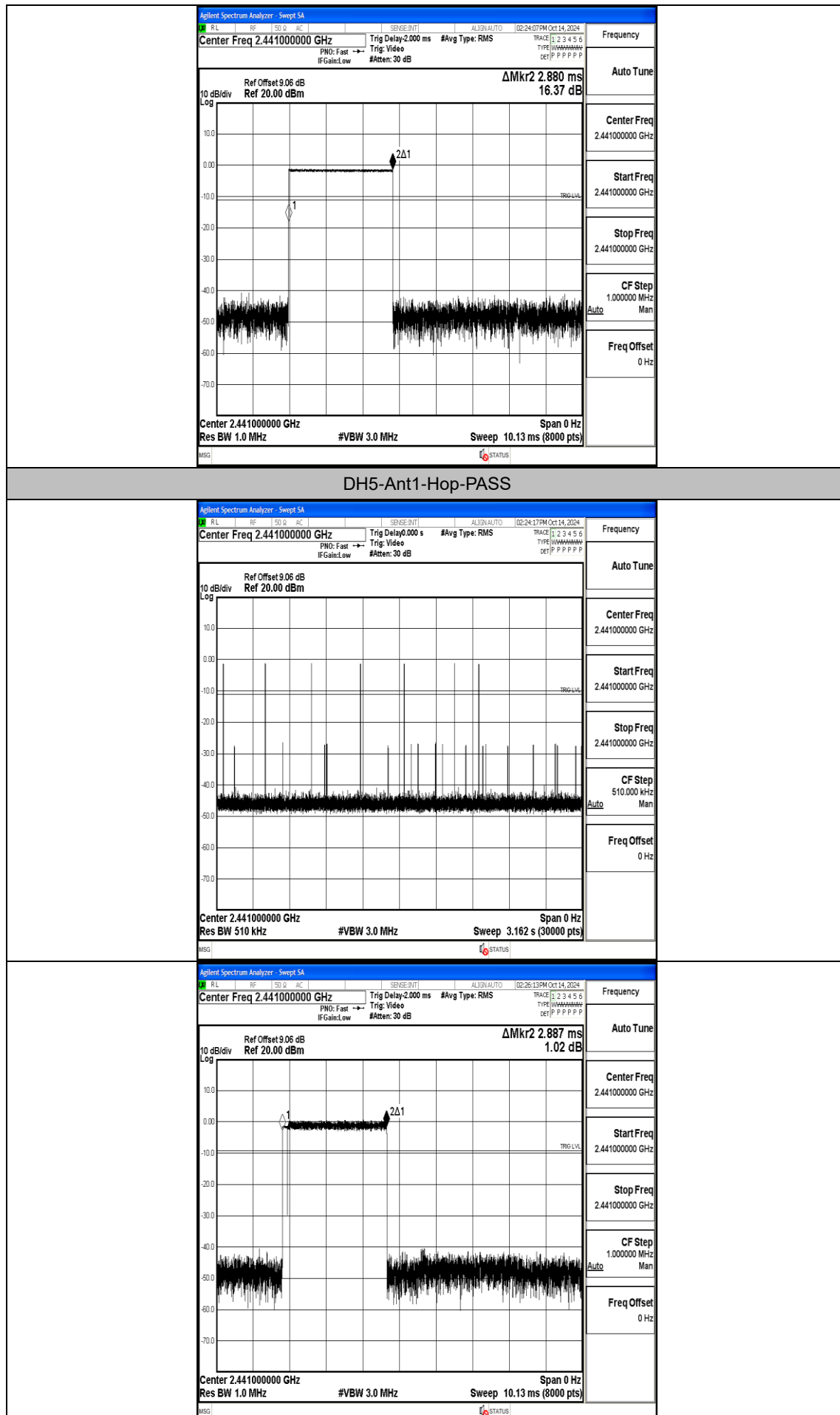


Appendix E: Time of occupancy

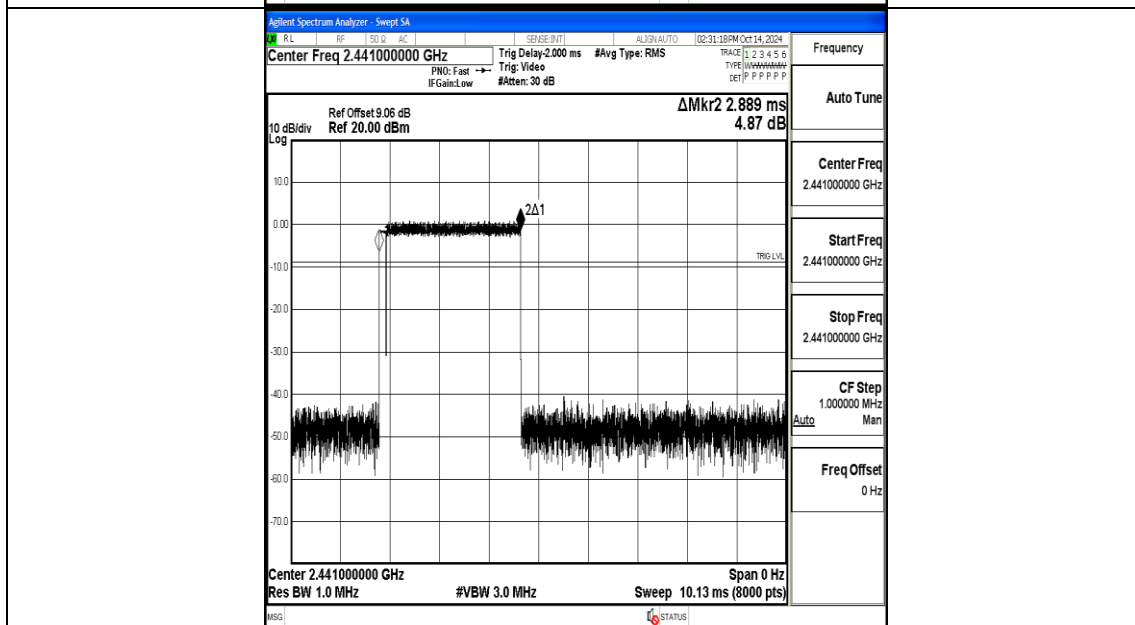
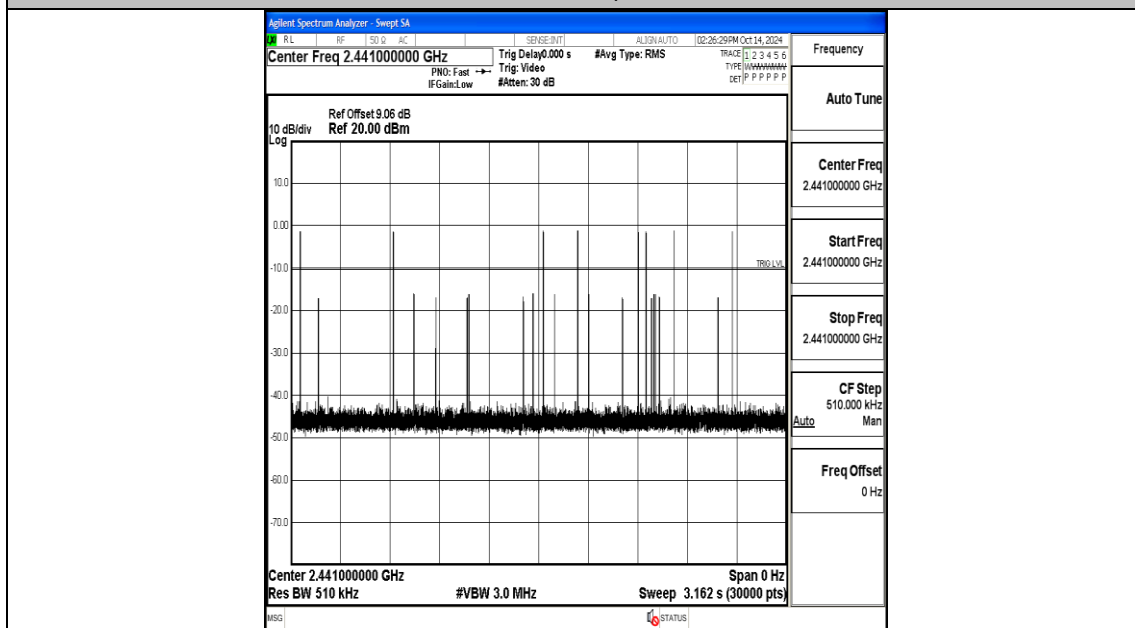
Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.880	80	0.23	≤0.4	PASS
2DH5	Ant1	Hop	2.887	90	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.889	60	0.173	≤0.4	PASS

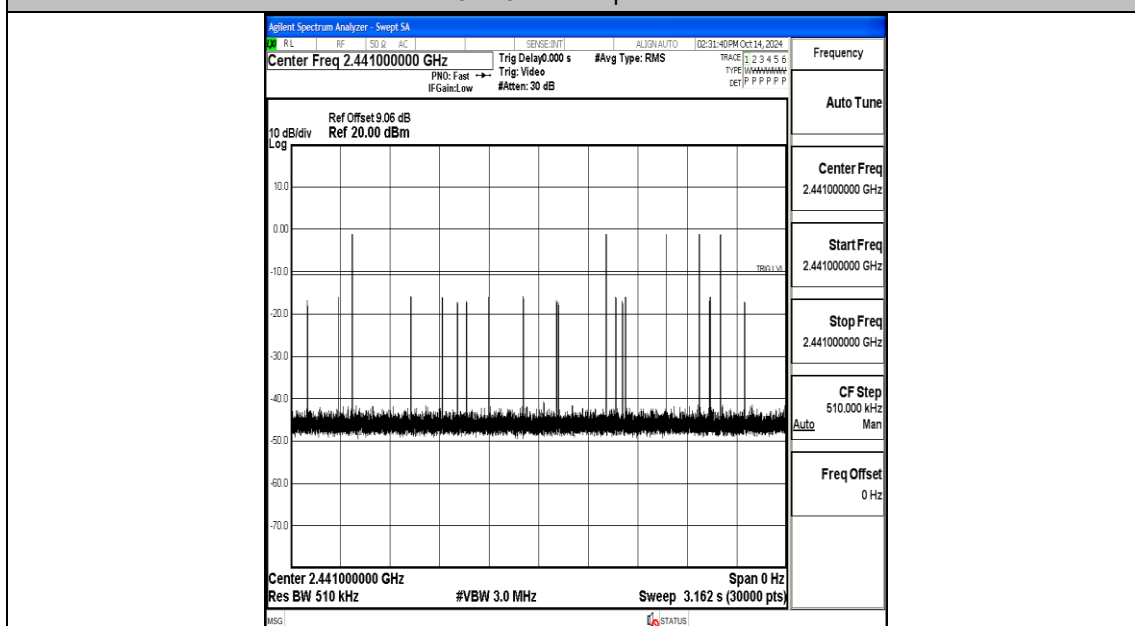
Test Graphs



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

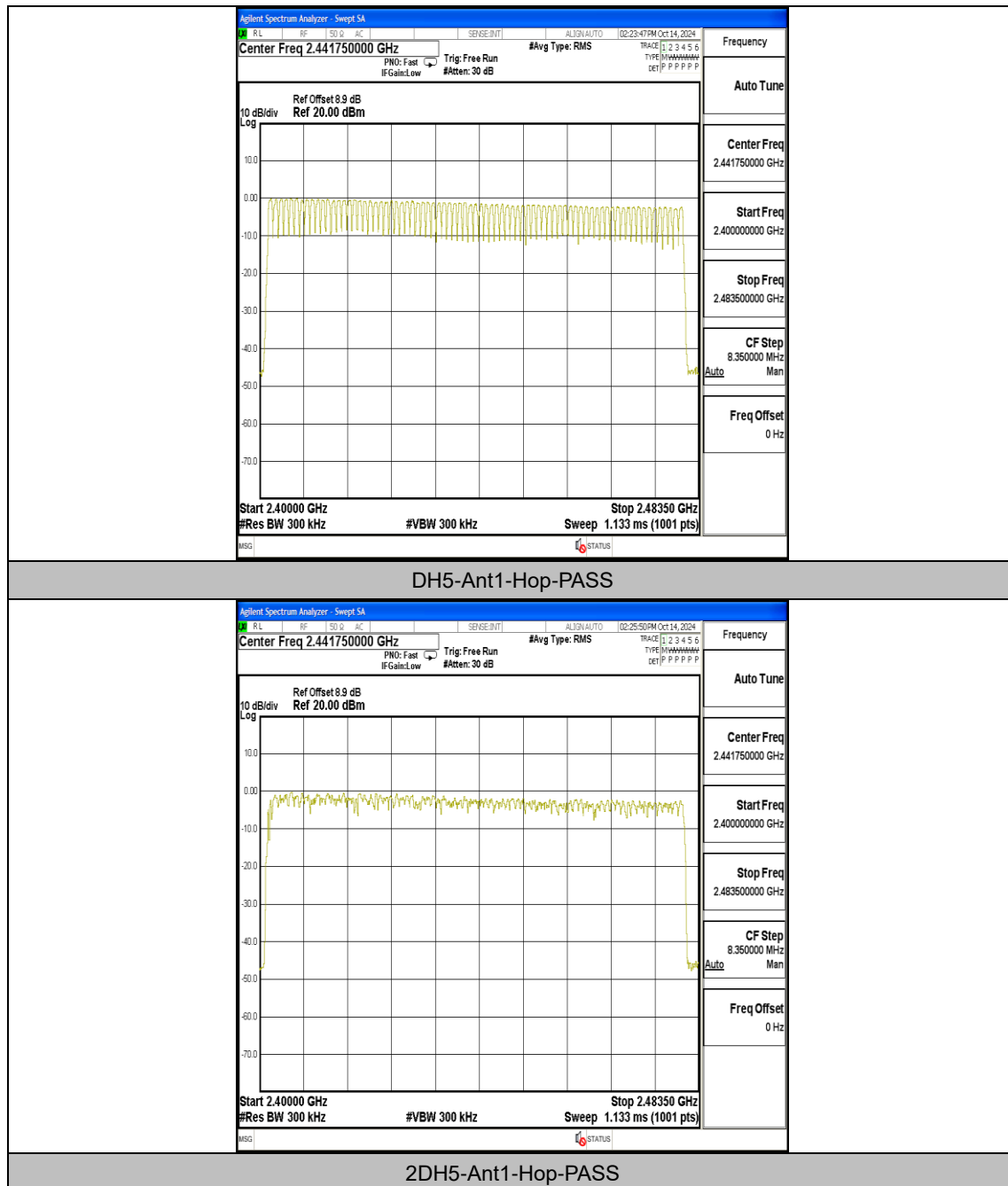


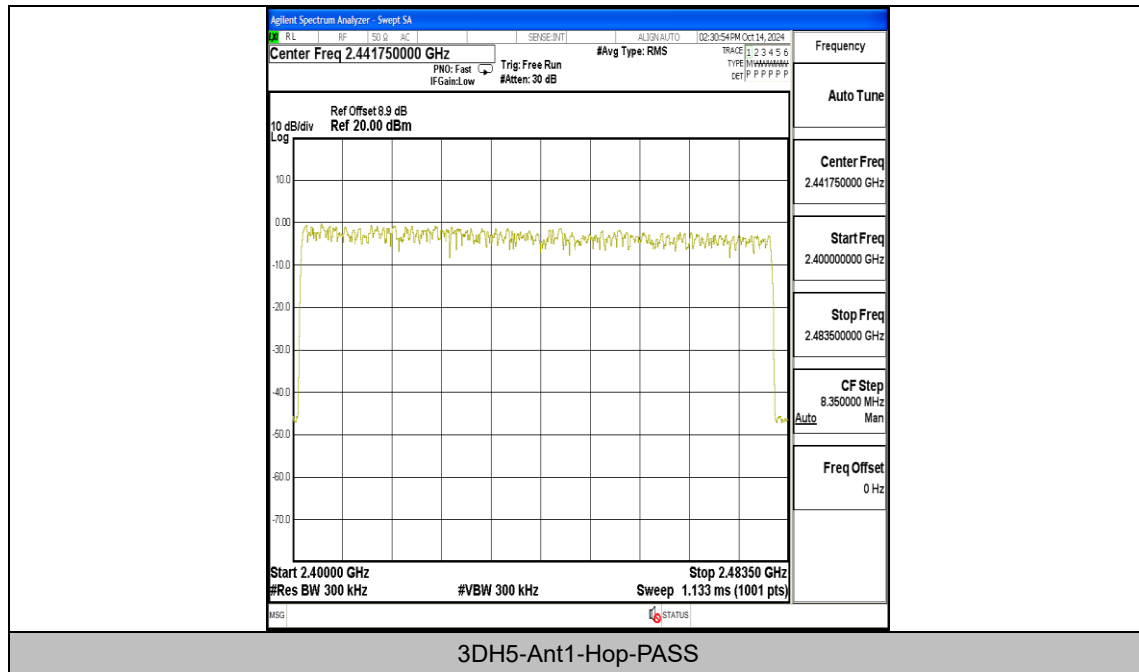
Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency [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



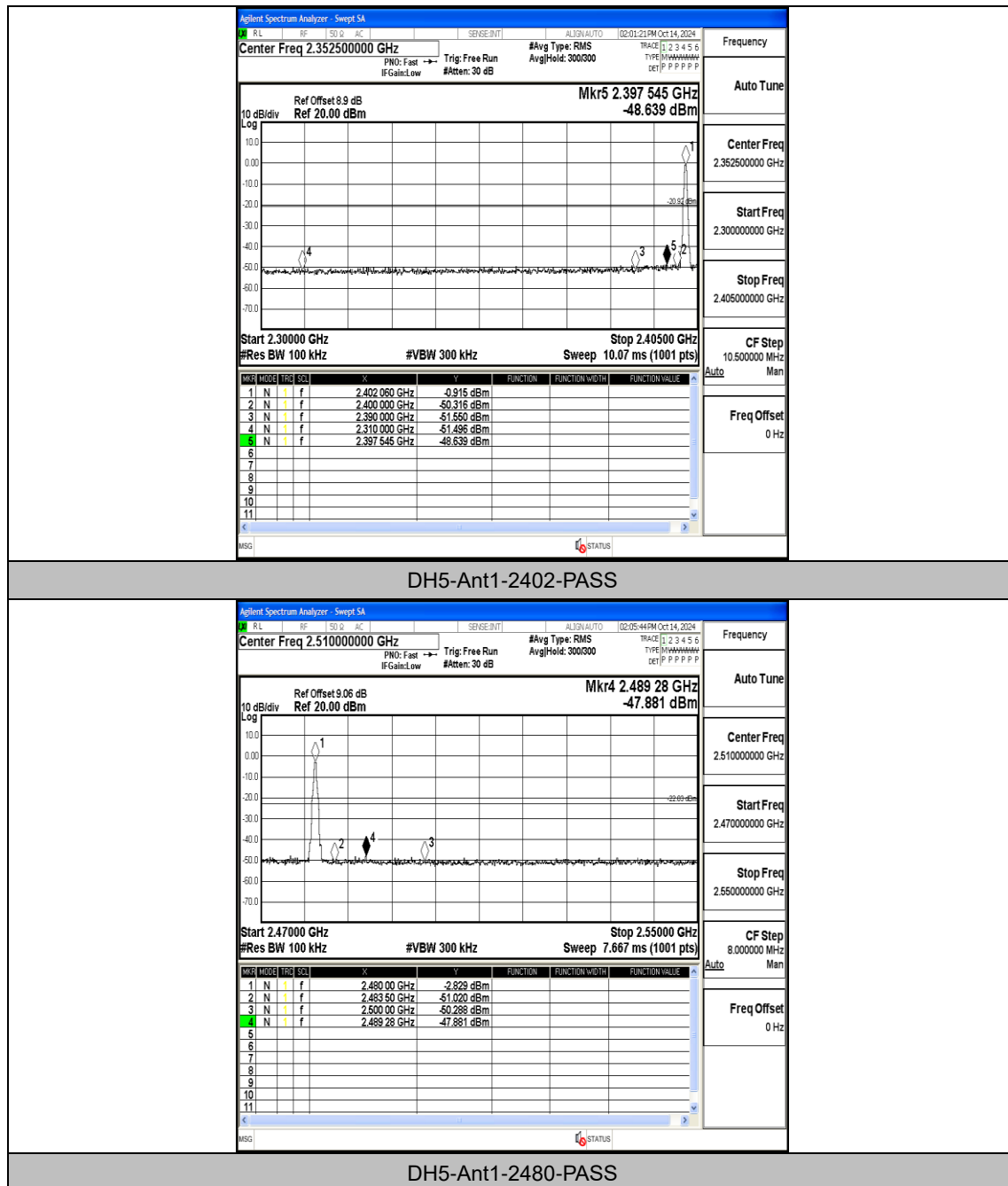


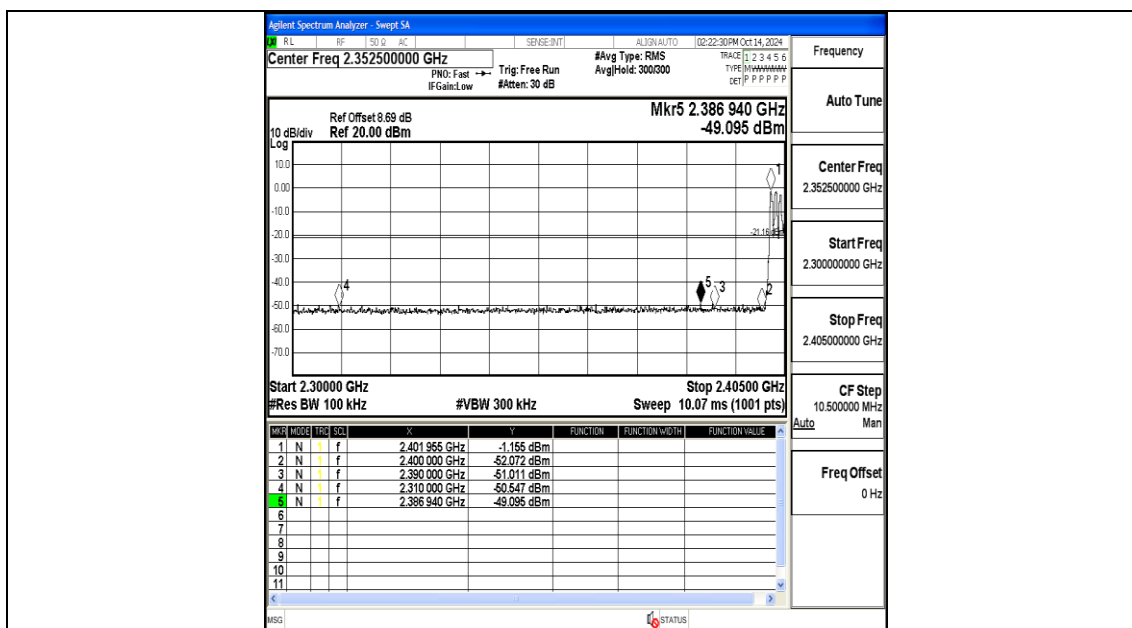
Appendix G: Band edge measurements

Test Result

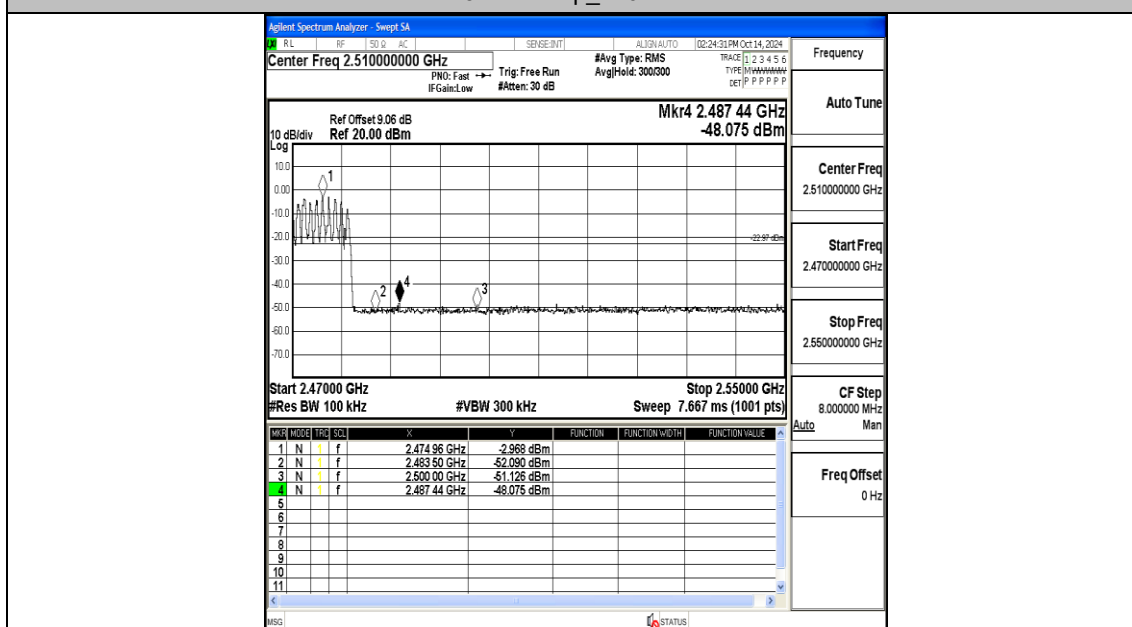
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.92	-48.64	≤ -20.92	PASS
DH5	Ant1	High	2480	-2.83	-47.88	≤ -22.83	PASS
DH5	Ant1	Low	Hop_2402	-1.16	-49.1	≤ -21.16	PASS
DH5	Ant1	High	Hop_2480	-2.97	-48.08	≤ -22.97	PASS
2DH5	Ant1	Low	2402	-0.37	-47.54	≤ -20.37	PASS
2DH5	Ant1	High	2480	-2.59	-47.74	≤ -22.59	PASS
2DH5	Ant1	Low	Hop_2402	-3.93	-49.39	≤ -23.93	PASS
2DH5	Ant1	High	Hop_2480	-4.87	-48	≤ -24.87	PASS
3DH5	Ant1	Low	2402	-2.75	-47.8	≤ -22.75	PASS
3DH5	Ant1	High	2480	-2.35	-47.85	≤ -22.35	PASS
3DH5	Ant1	Low	Hop_2402	-1.01	-49.71	≤ -21.01	PASS
3DH5	Ant1	High	Hop_2480	-4.11	-48.76	≤ -24.11	PASS

Test Graphs

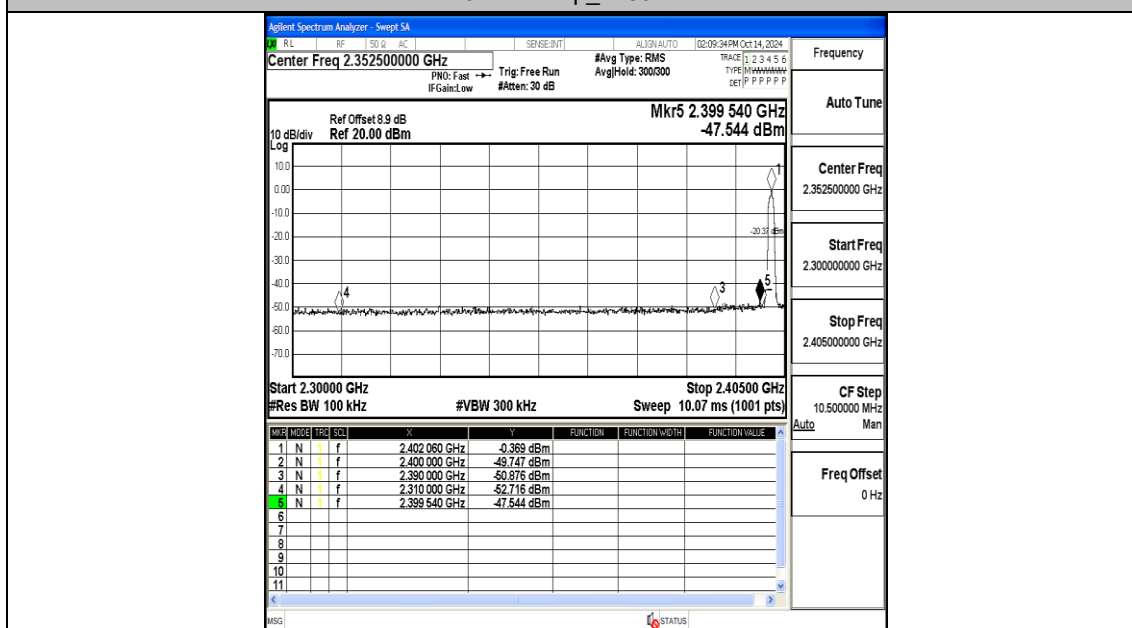




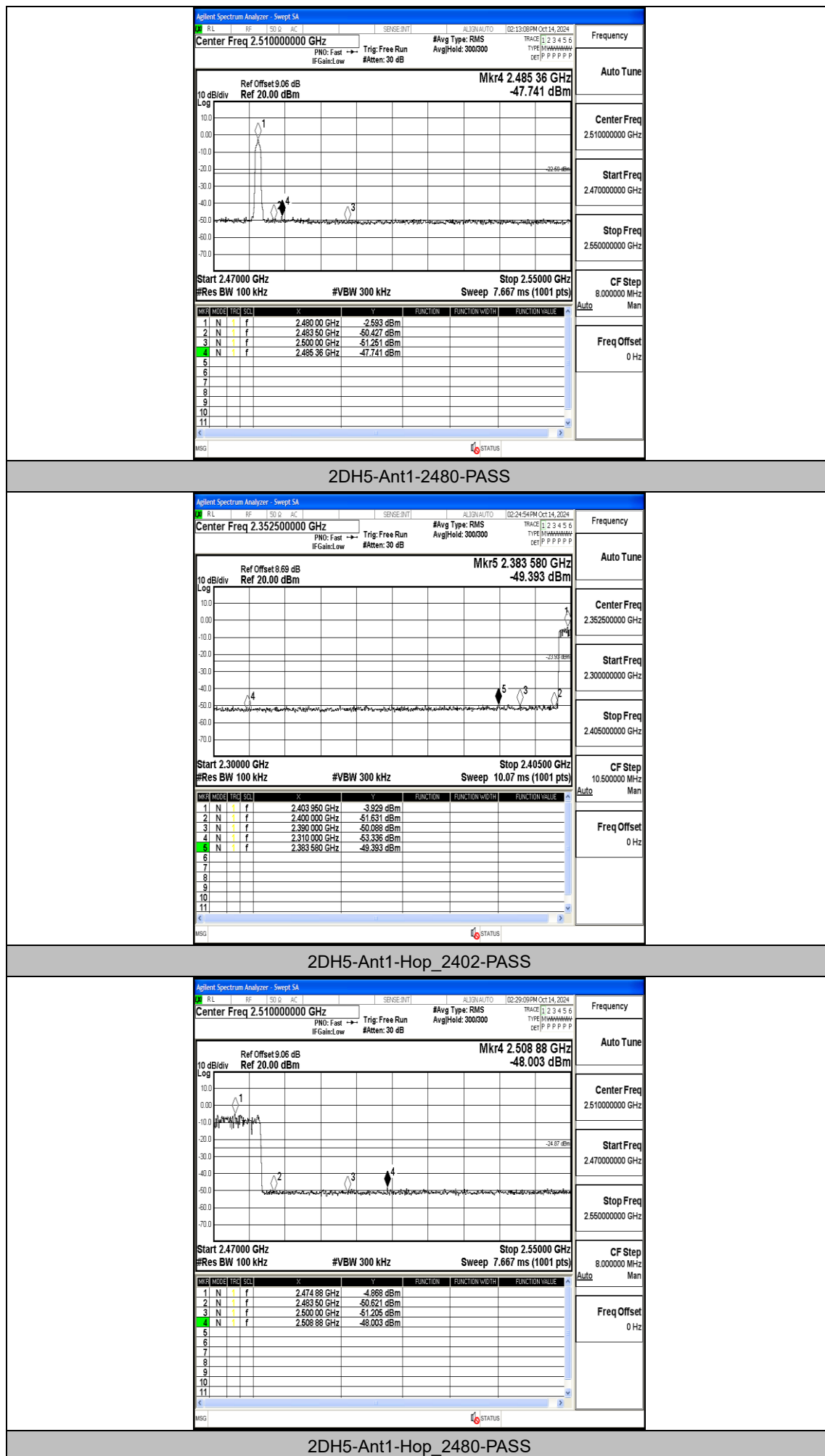
DH5-Ant1-Hop_2402-PASS

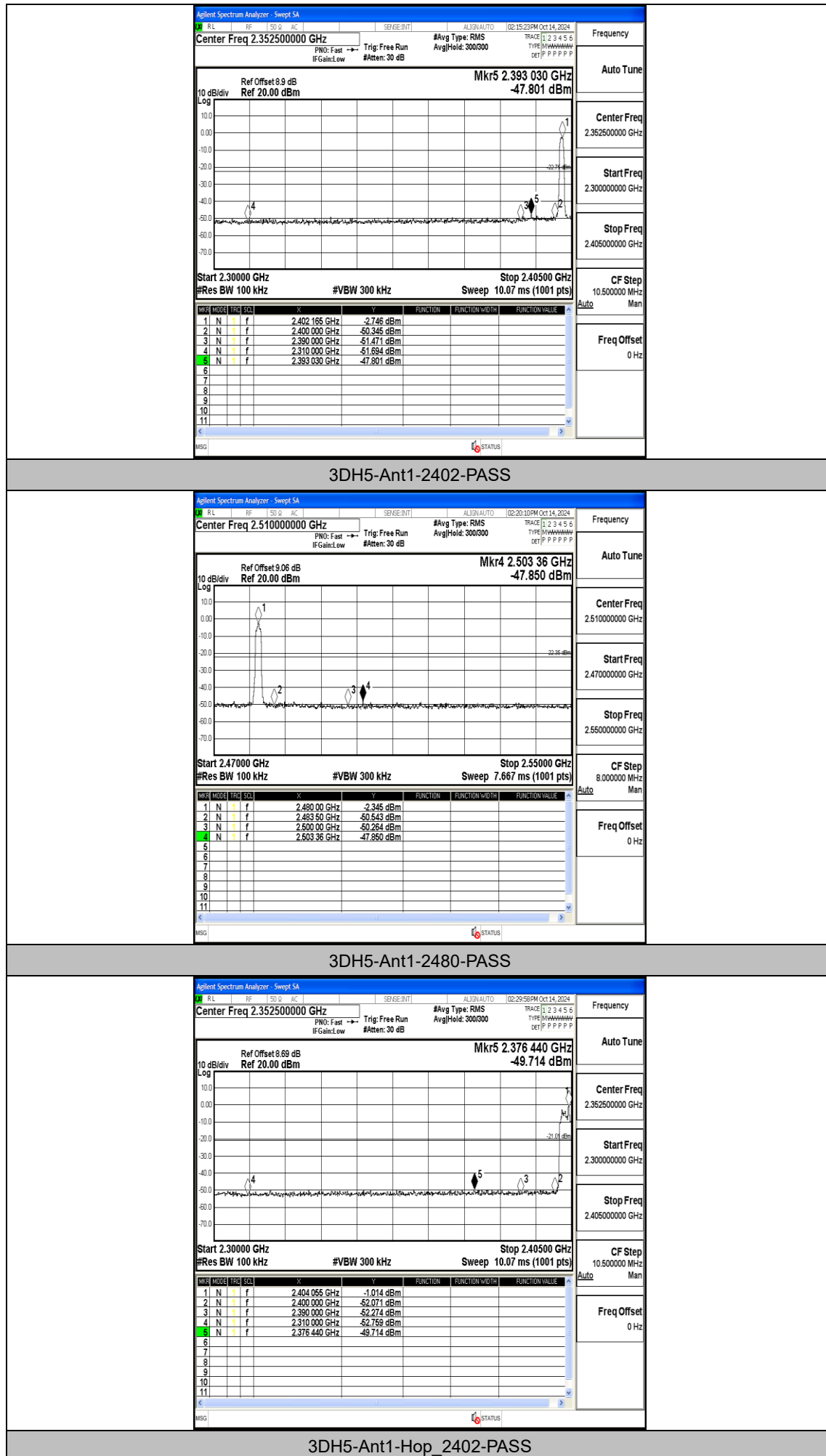


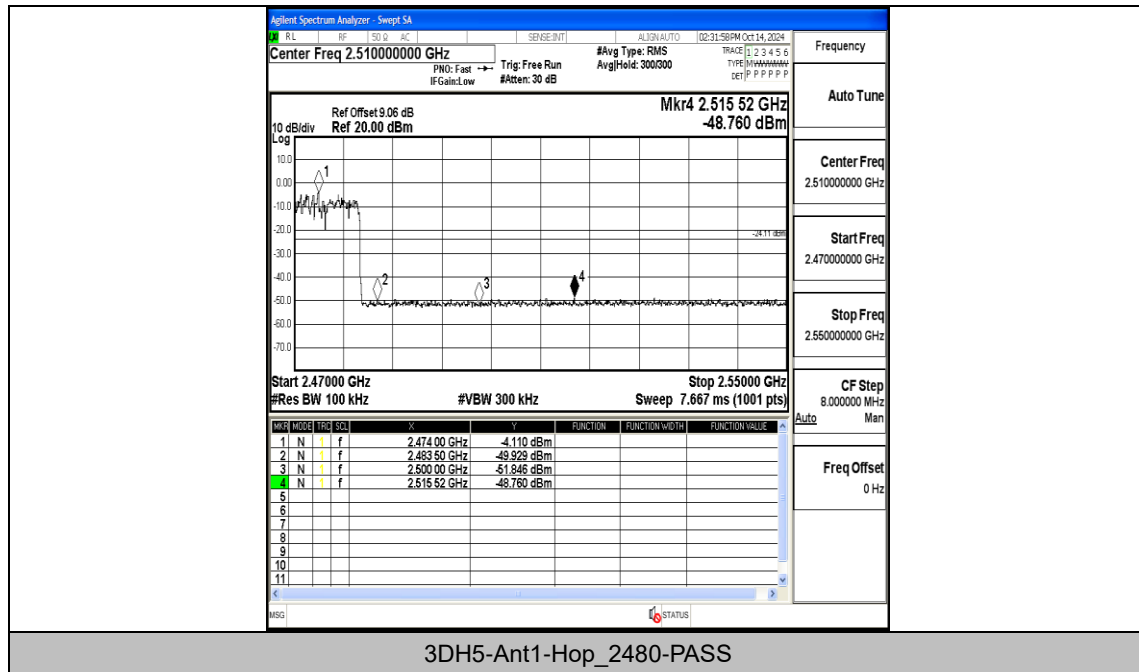
DH5-Ant1-Hop_2480-PASS



2DH5-Ant1-2402-PASS





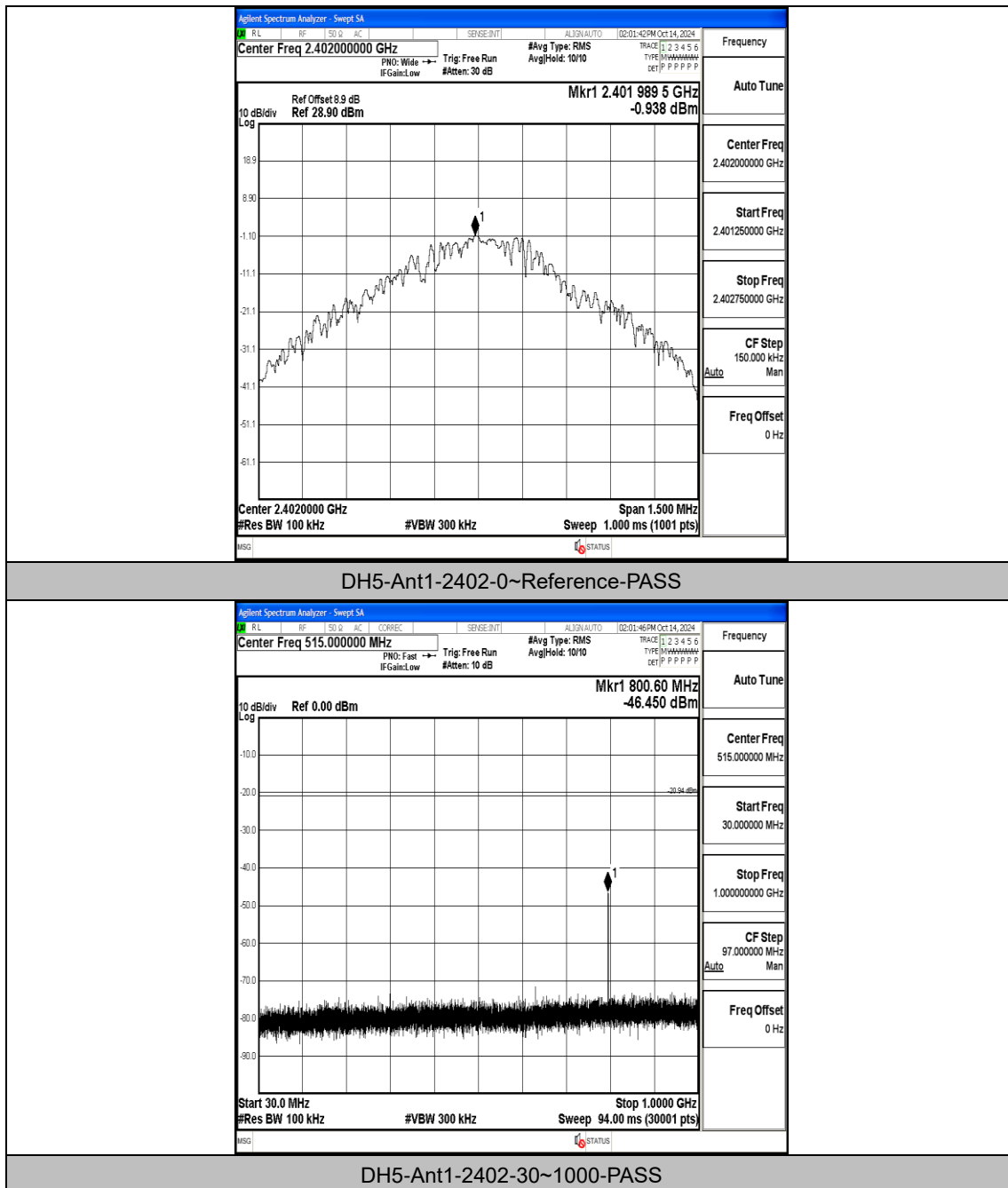


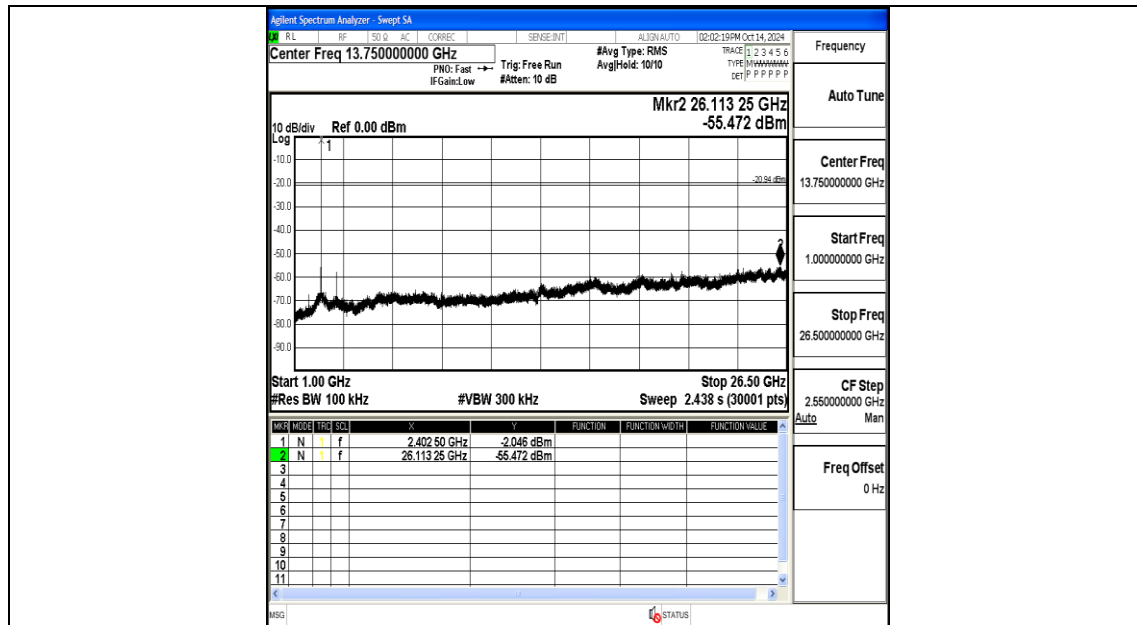
Appendix H: Conducted Spurious Emission

Test Result

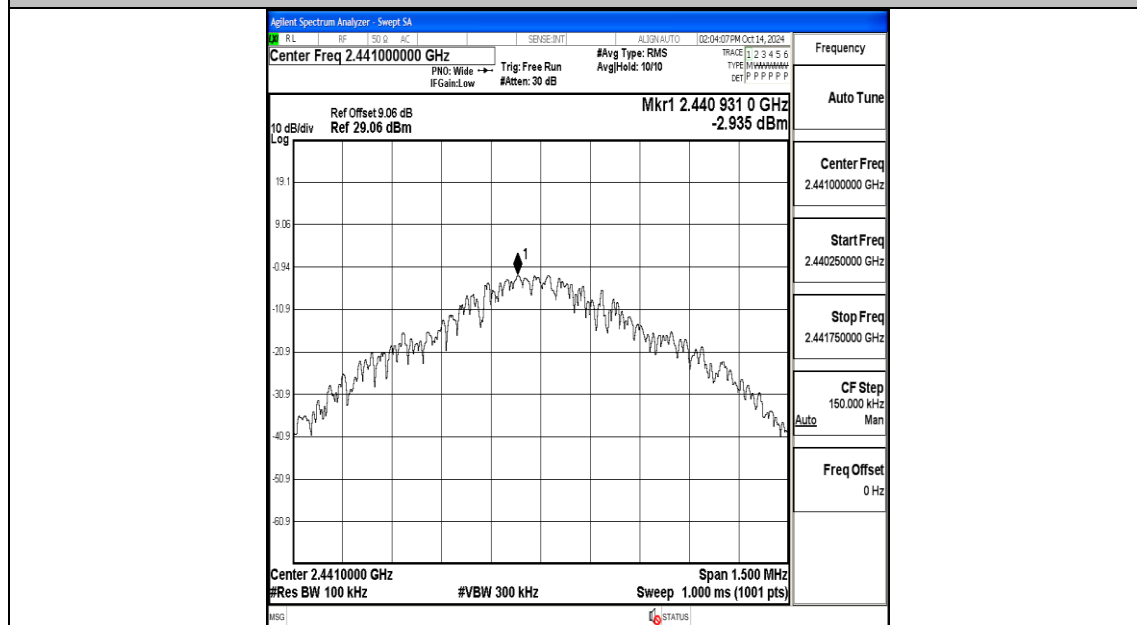
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.94	-0.94	---	PASS
DH5	Ant1	2402	30~1000	-0.94	-46.45	≤-20.94	PASS
DH5	Ant1	2402	1000~26500	-0.94	-55.47	≤-20.94	PASS
DH5	Ant1	2441	0~Reference	-2.94	-2.94	---	PASS
DH5	Ant1	2441	30~1000	-2.94	-45.68	≤-22.94	PASS
DH5	Ant1	2441	1000~26500	-2.94	-44.7	≤-22.94	PASS
DH5	Ant1	2480	0~Reference	-3.13	-3.13	---	PASS
DH5	Ant1	2480	30~1000	-3.13	-44.9	≤-23.13	PASS
DH5	Ant1	2480	1000~26500	-3.13	-54.17	≤-23.13	PASS
2DH5	Ant1	2402	0~Reference	-2.29	-2.29	---	PASS
2DH5	Ant1	2402	30~1000	-2.29	-47.8	≤-22.29	PASS
2DH5	Ant1	2402	1000~26500	-2.29	-55.07	≤-22.29	PASS
2DH5	Ant1	2441	0~Reference	-4.37	-4.37	---	PASS
2DH5	Ant1	2441	30~1000	-4.37	-48.2	≤-24.37	PASS
2DH5	Ant1	2441	1000~26500	-4.37	-55.07	≤-24.37	PASS
2DH5	Ant1	2480	0~Reference	-5.46	-5.46	---	PASS
2DH5	Ant1	2480	30~1000	-5.46	-48.56	≤-25.46	PASS
2DH5	Ant1	2480	1000~26500	-5.46	-54.72	≤-25.46	PASS
3DH5	Ant1	2402	0~Reference	-3.64	-3.64	---	PASS
3DH5	Ant1	2402	30~1000	-3.64	-46.47	≤-23.64	PASS
3DH5	Ant1	2402	1000~26500	-3.64	-55.62	≤-23.64	PASS
3DH5	Ant1	2441	0~Reference	-4.24	-4.24	---	PASS
3DH5	Ant1	2441	30~1000	-4.24	-47.74	≤-24.24	PASS
3DH5	Ant1	2441	1000~26500	-4.24	-44.69	≤-24.24	PASS
3DH5	Ant1	2480	0~Reference	-3.43	-3.43	---	PASS
3DH5	Ant1	2480	30~1000	-3.43	-46.39	≤-23.43	PASS
3DH5	Ant1	2480	1000~26500	-3.43	-39.09	≤-23.43	PASS

Test Graphs

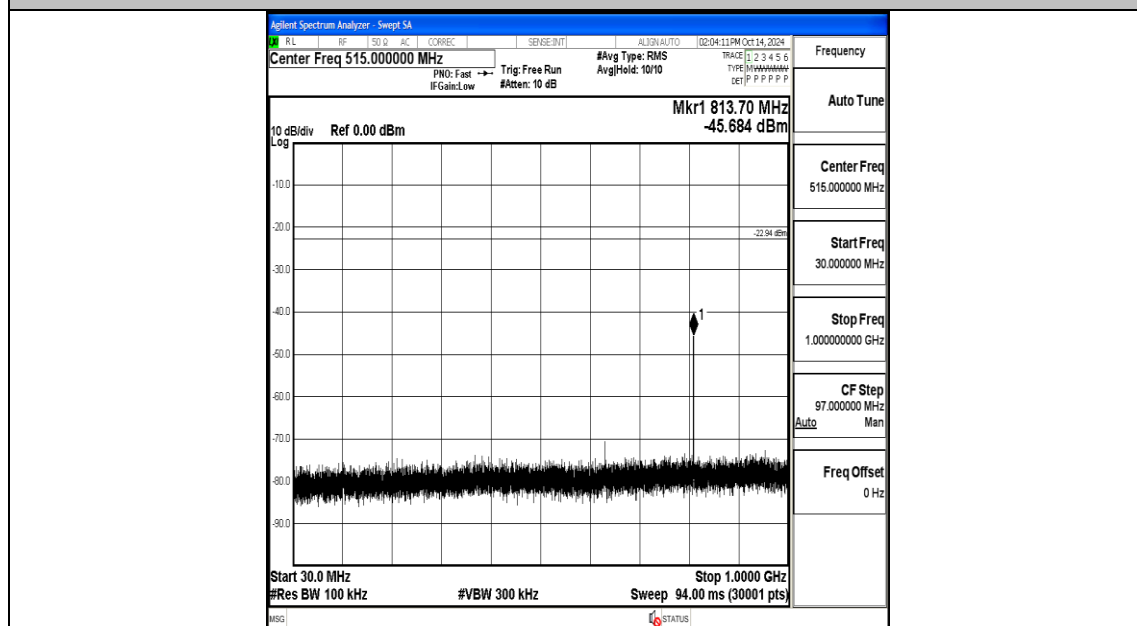




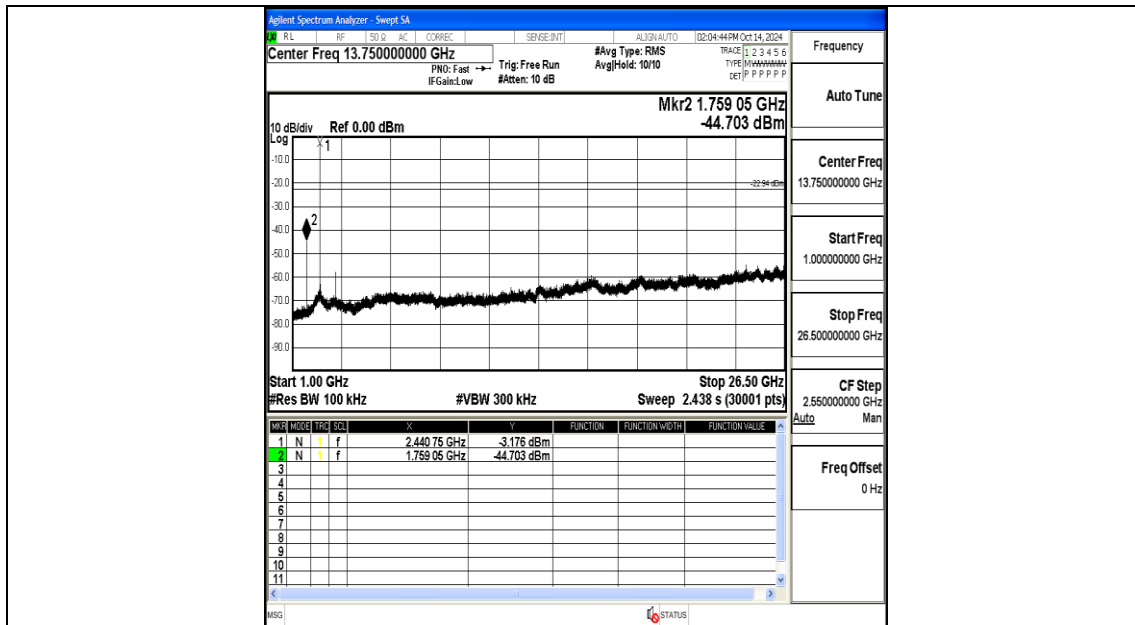
DH5-Ant1-2402-1000~26500-PASS



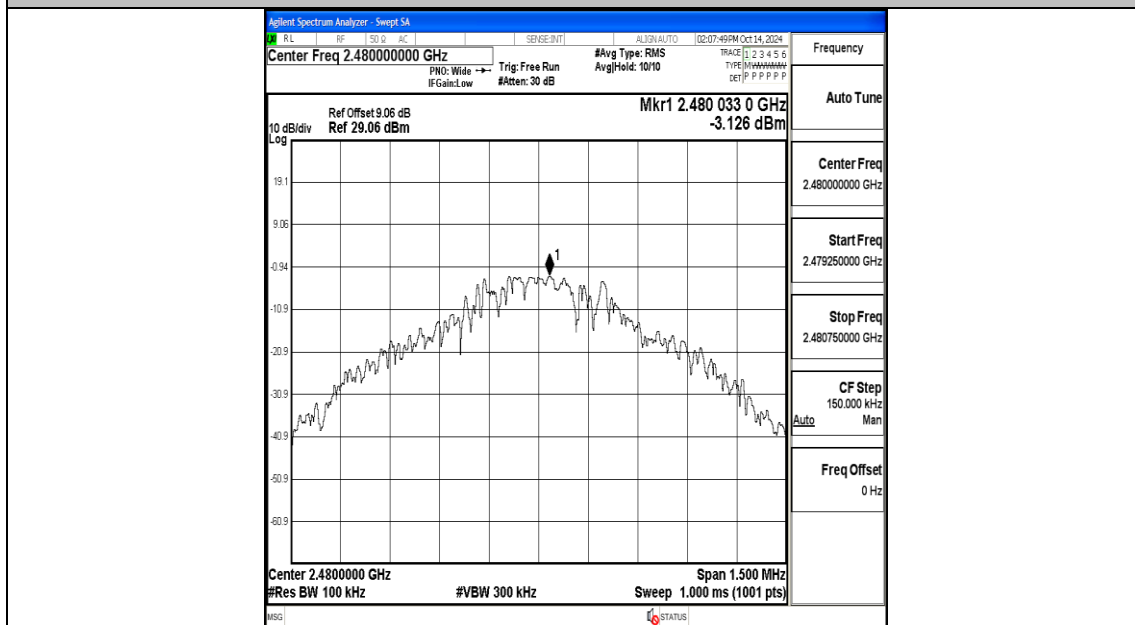
DH5-Ant1-2441-0~Reference-PASS



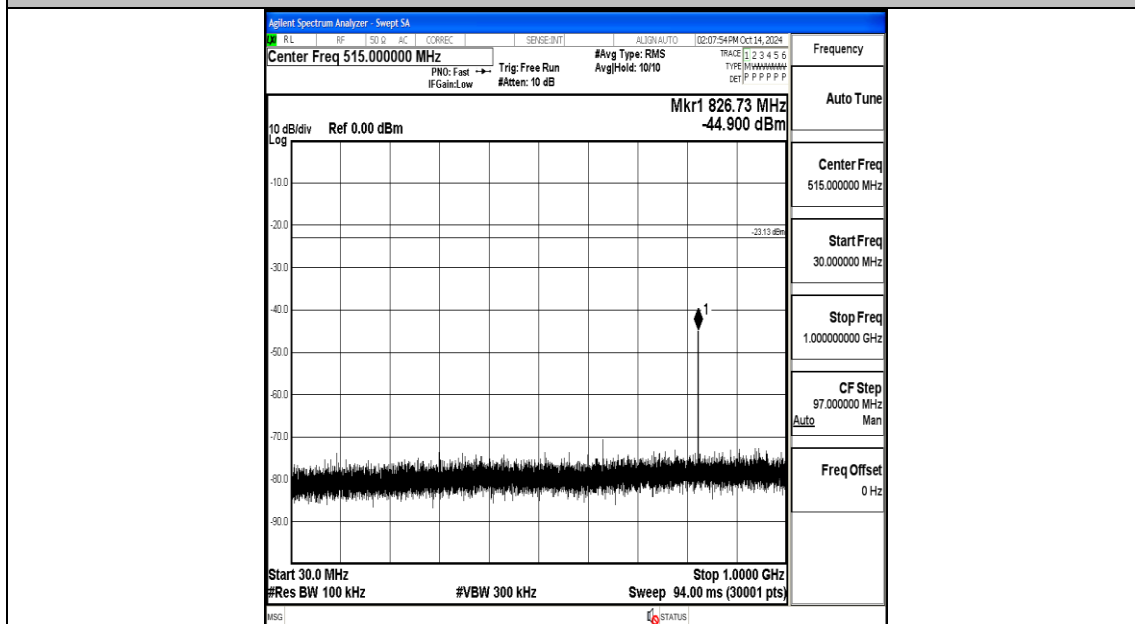
DH5-Ant1-2441-30~1000-PASS



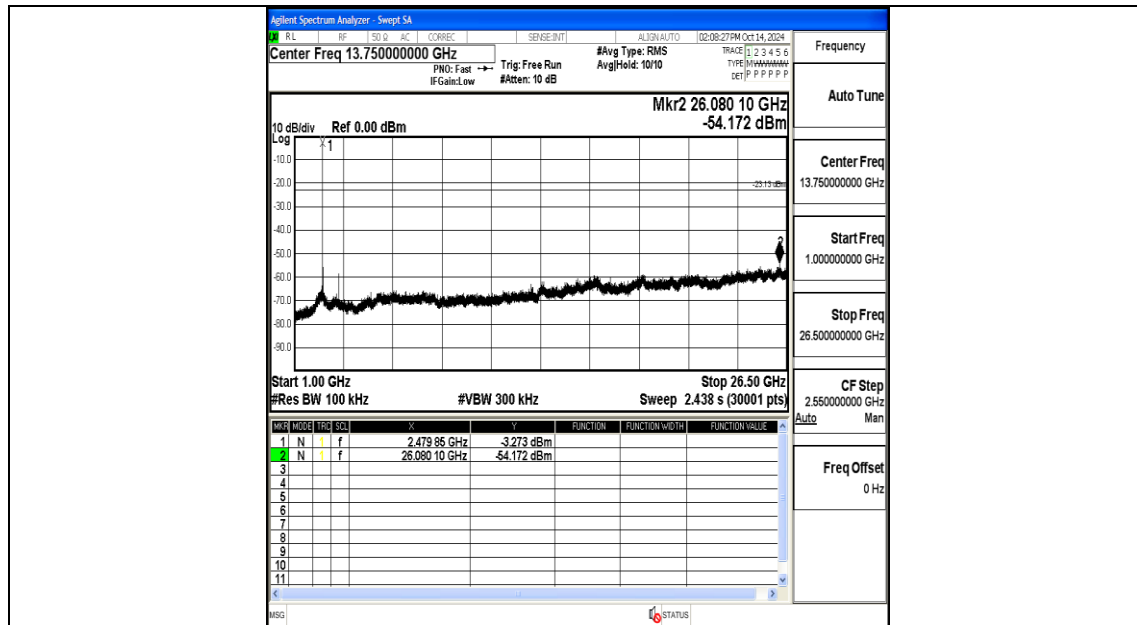
DH5-Ant1-2441-1000~26500-PASS



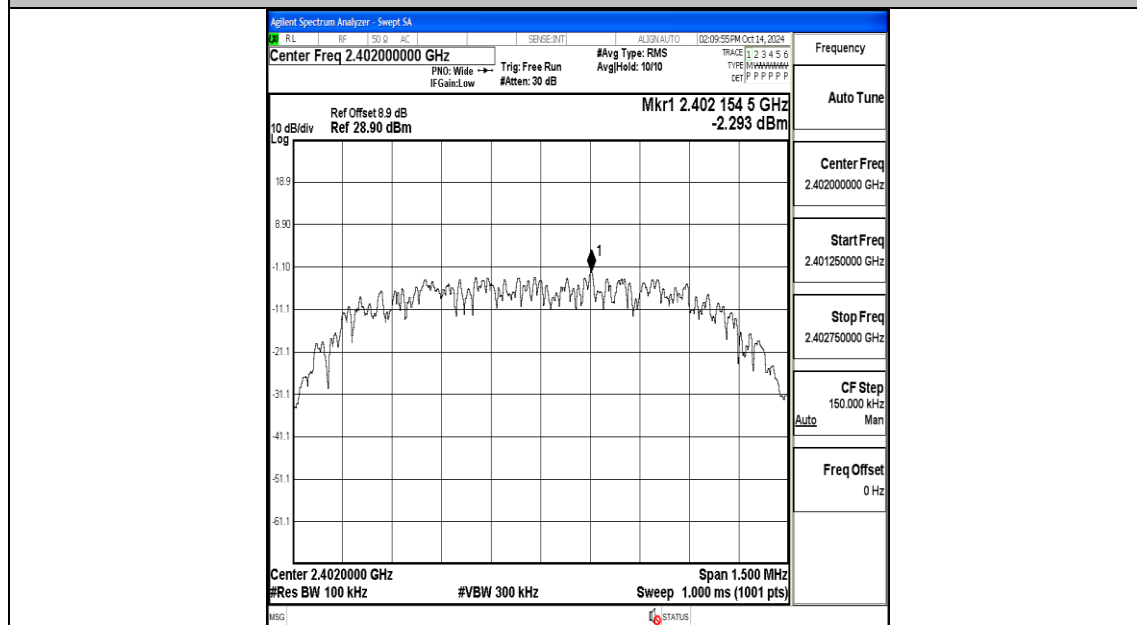
DH5-Ant1-2480-0~Reference-PASS



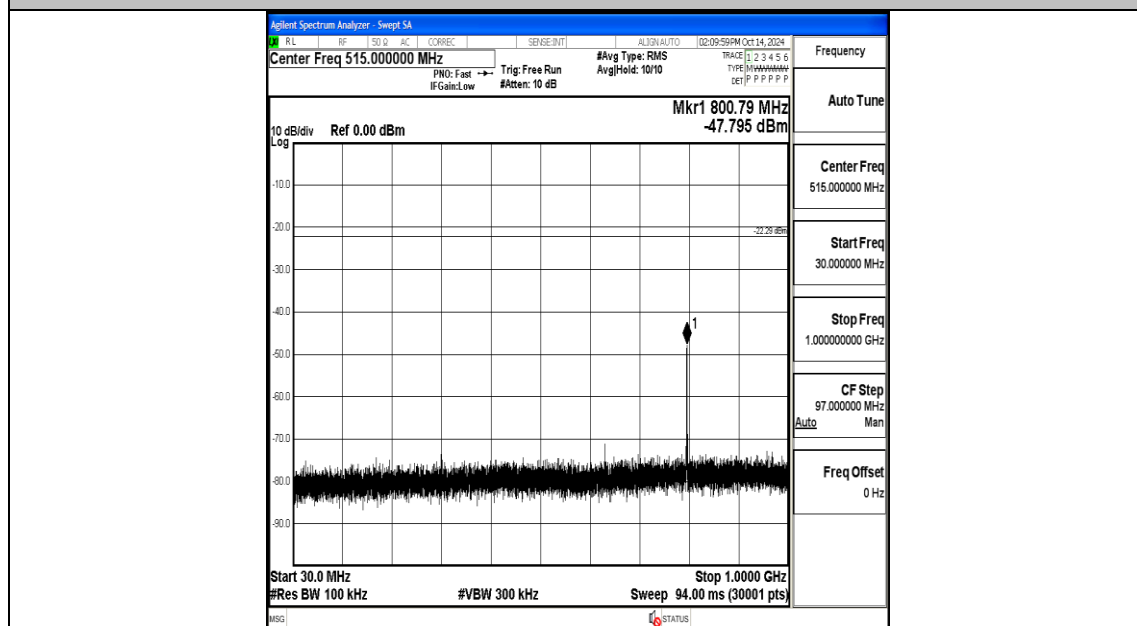
DH5-Ant1-2480-30~1000-PASS



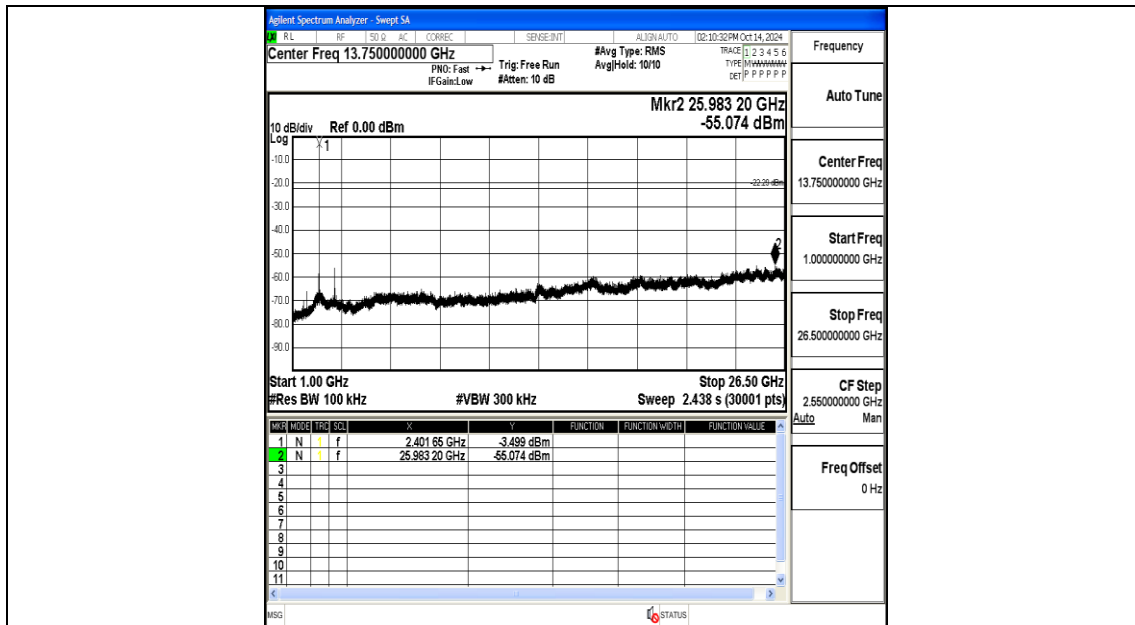
DH5-Ant1-2480-1000~26500-PASS



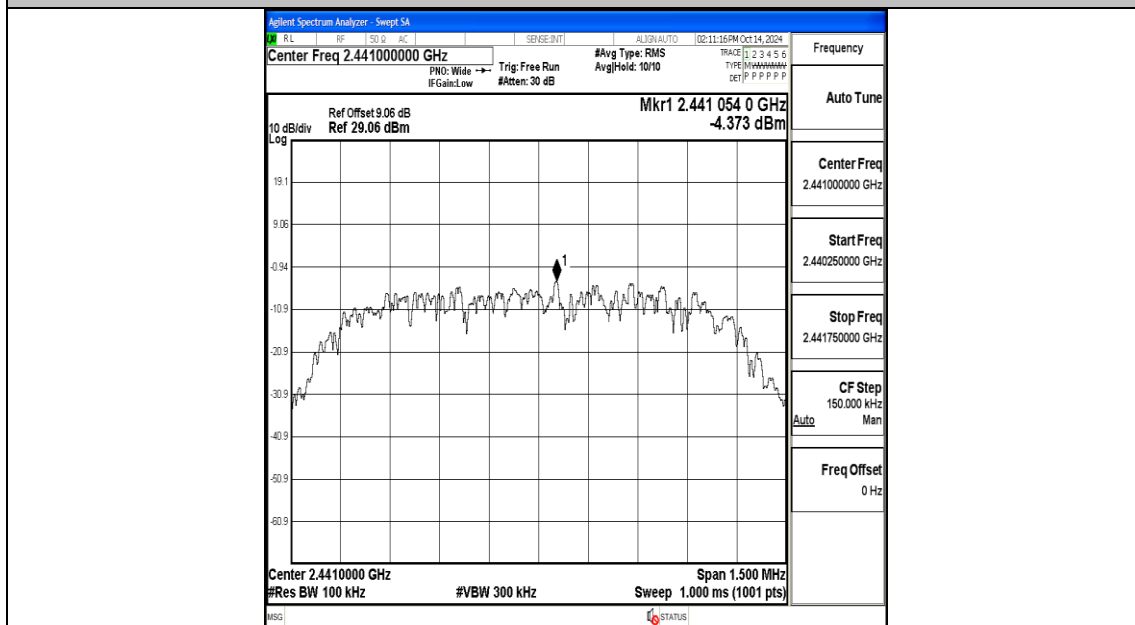
2DH5-Ant1-2402-0~Reference-PASS



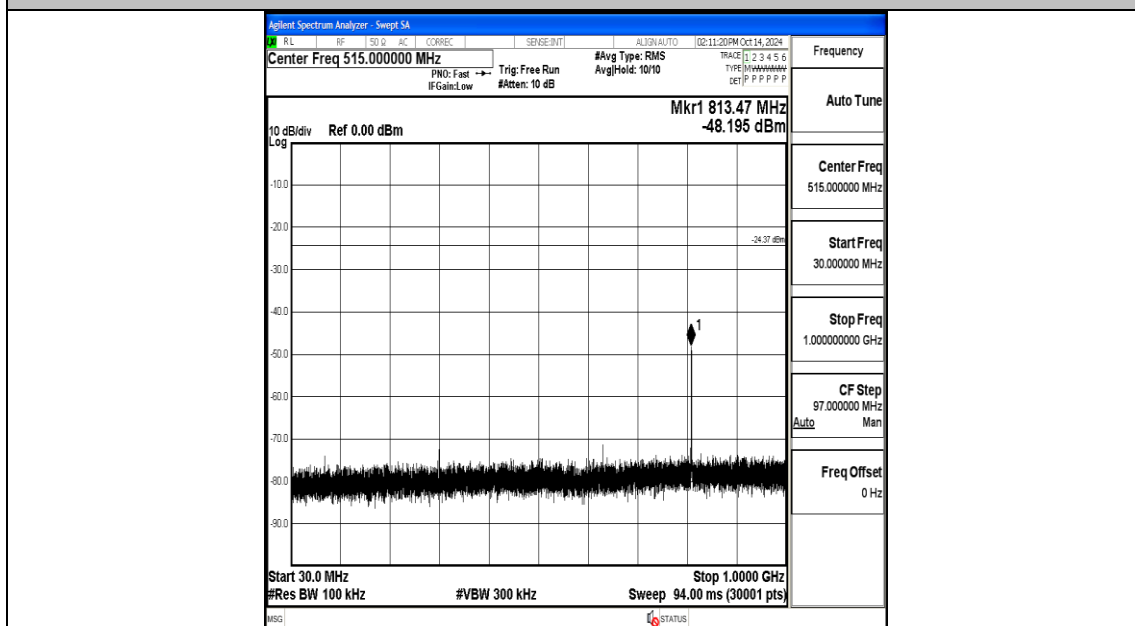
2DH5-Ant1-2402-30~1000-PASS



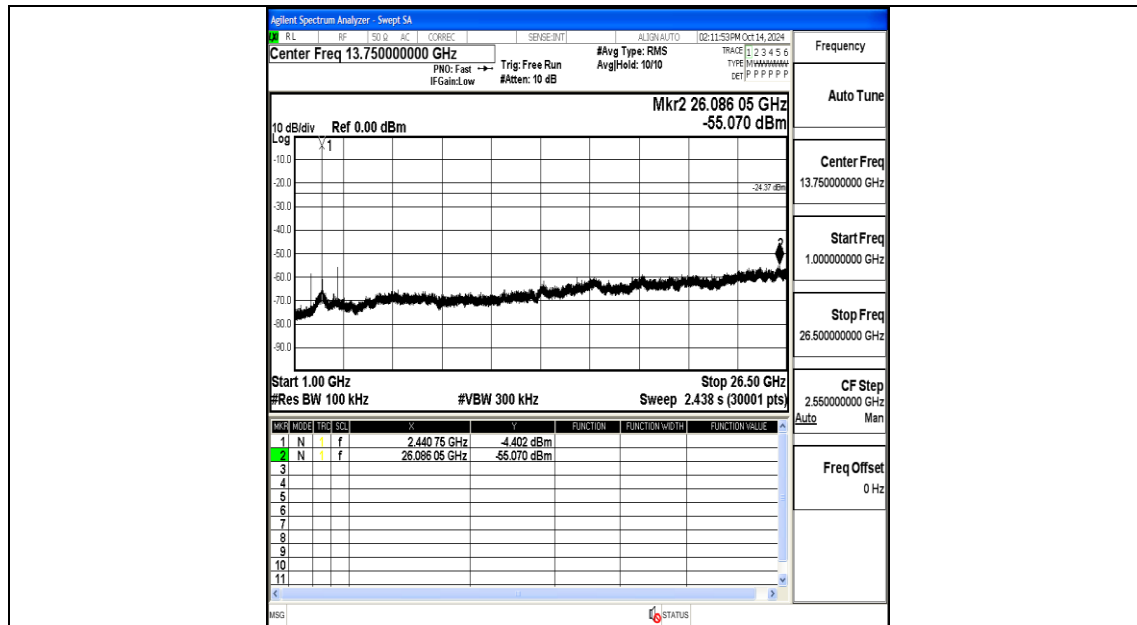
2DH5-Ant1-2402-1000~26500-PASS



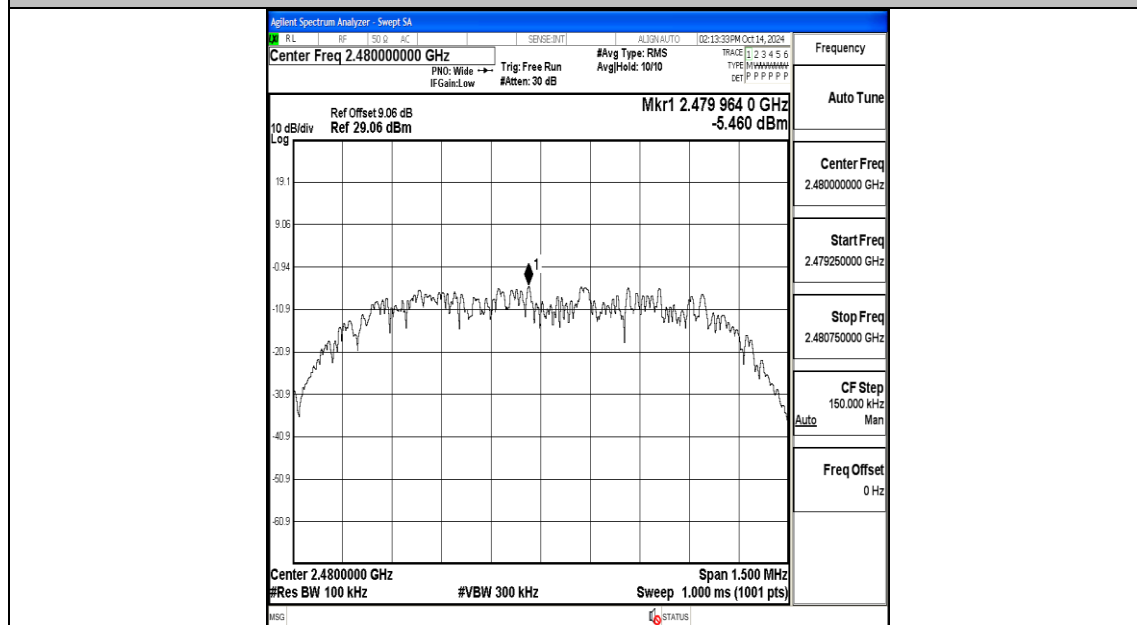
2DH5-Ant1-2441-0~Reference-PASS



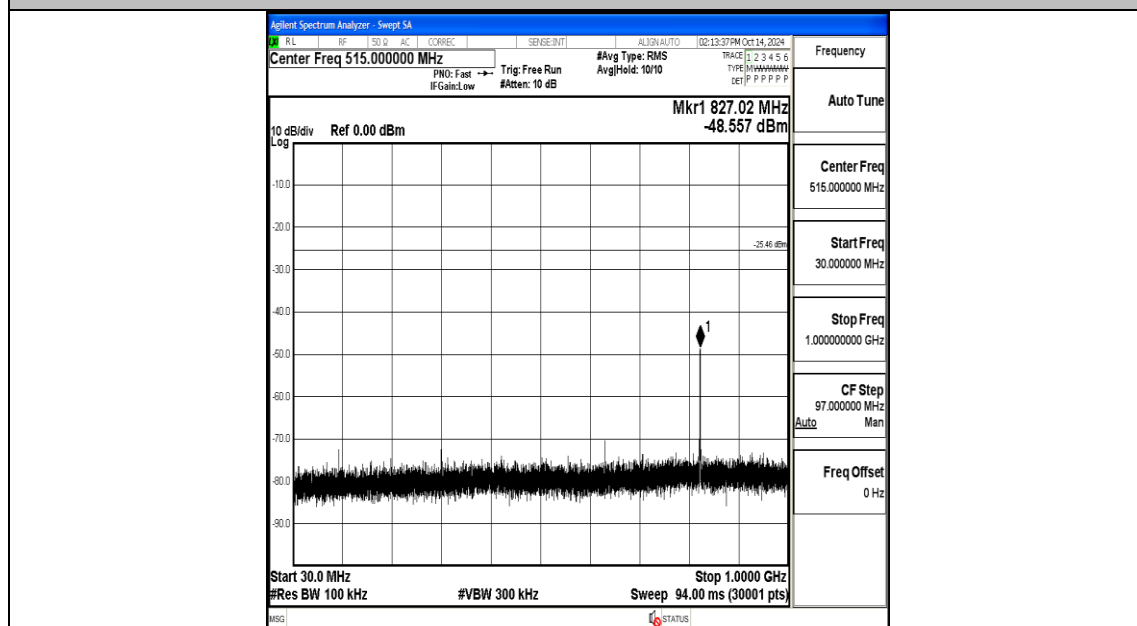
2DH5-Ant1-2441-30~1000-PASS



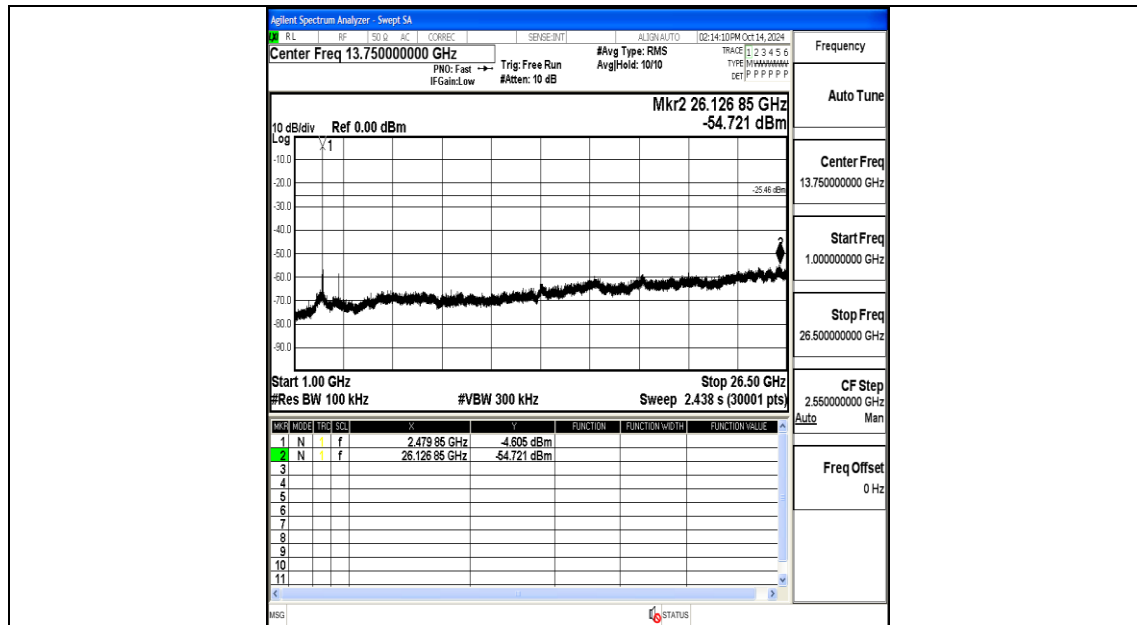
2DH5-Ant1-2441-1000~26500-PASS



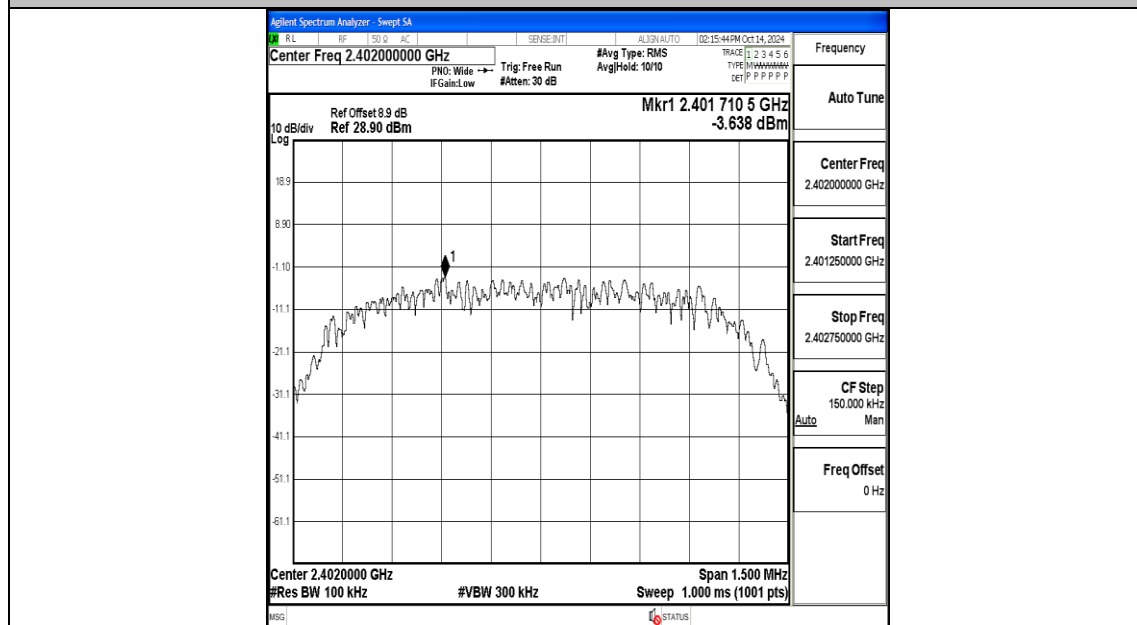
2DH5-Ant1-2480-0~Reference-PASS



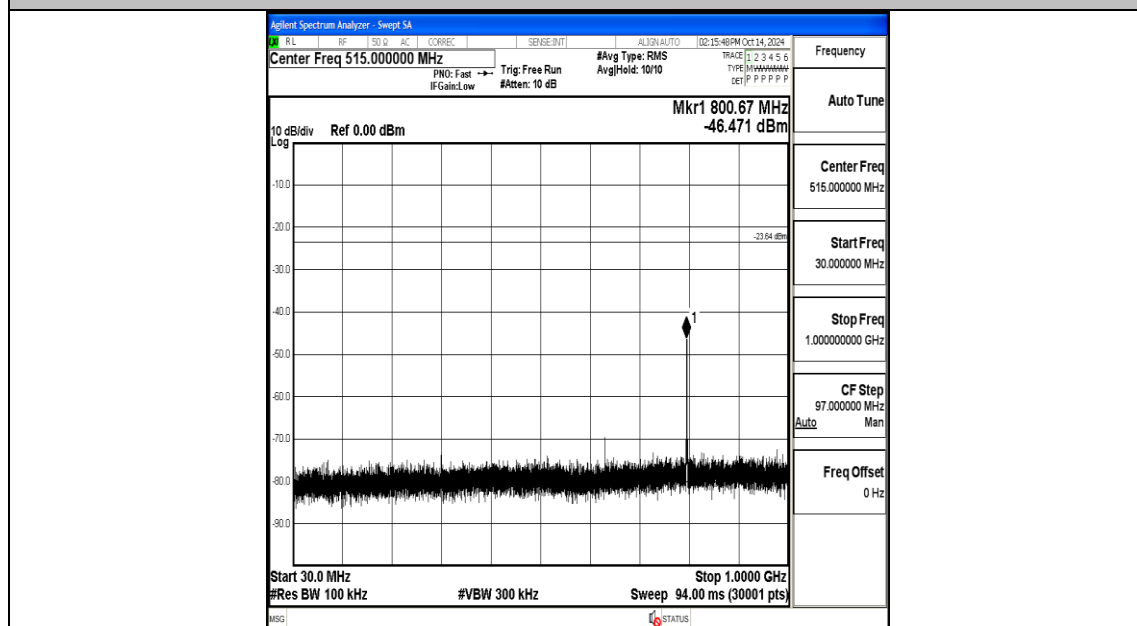
2DH5-Ant1-2480-30~1000-PASS



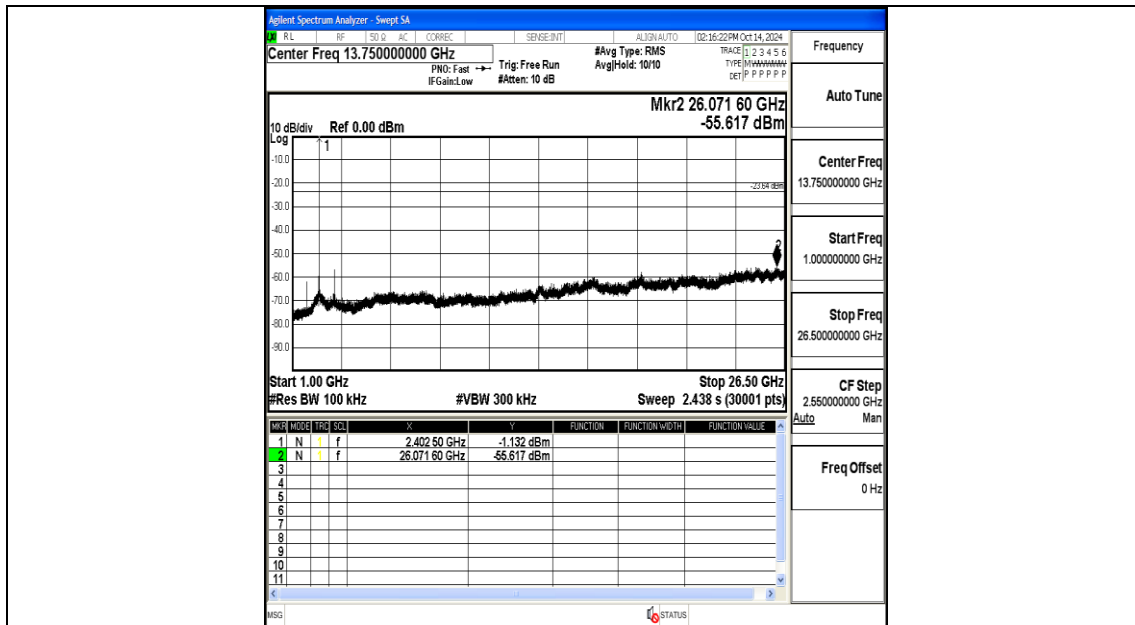
2DH5-Ant1-2480-1000~26500-PASS



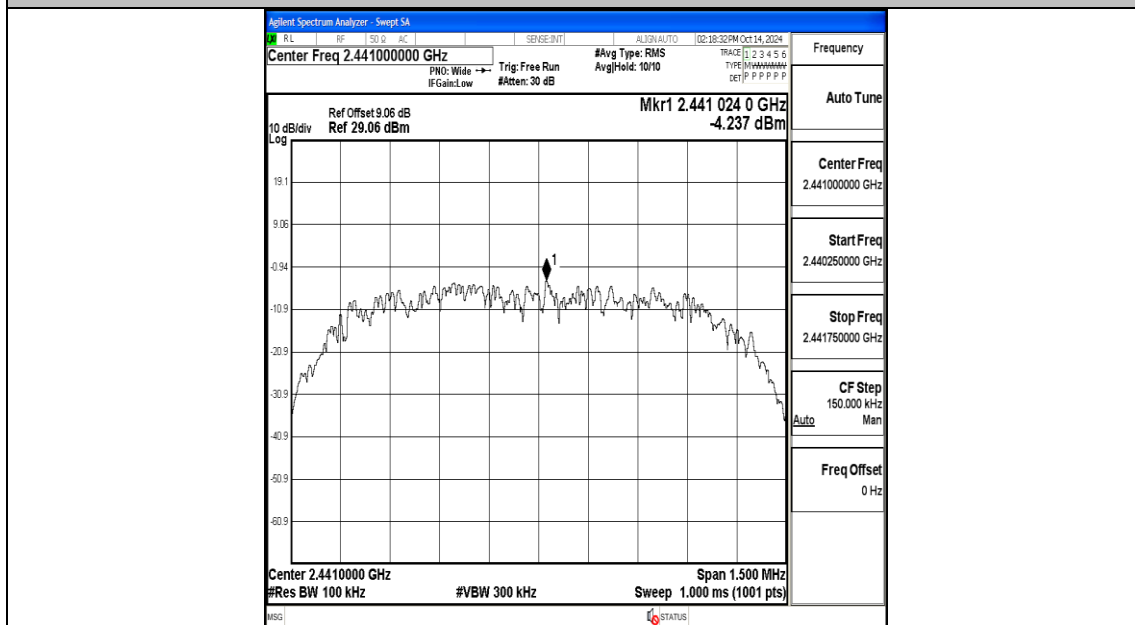
3DH5-Ant1-2402-0~Reference-PASS



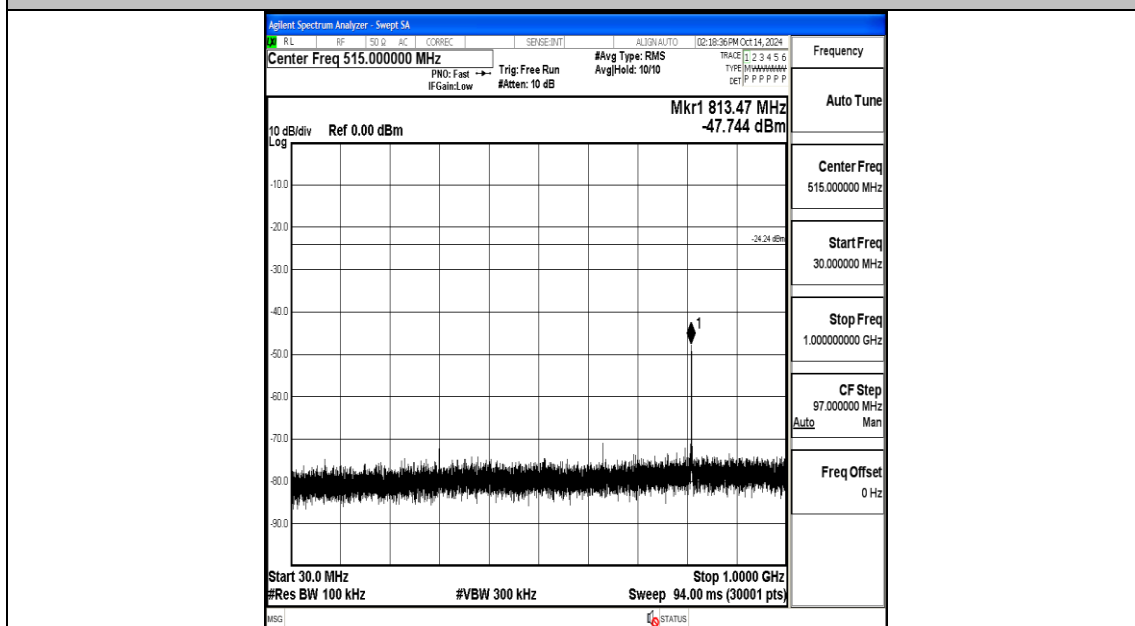
3DH5-Ant1-2402-30~1000-PASS



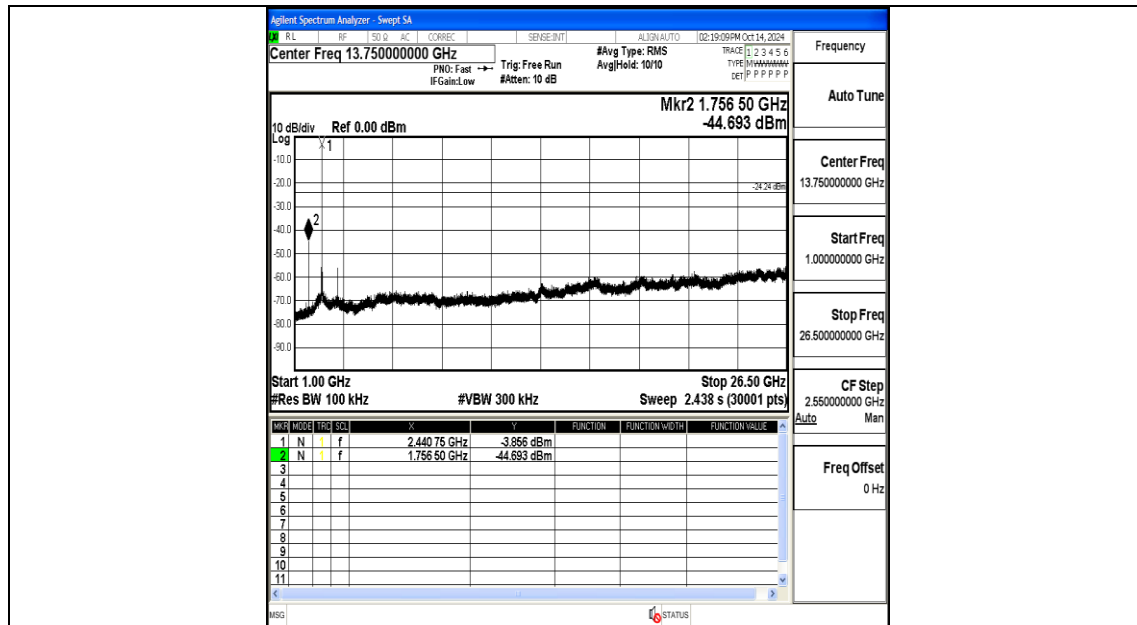
3DH5-Ant1-2402-1000~26500-PASS



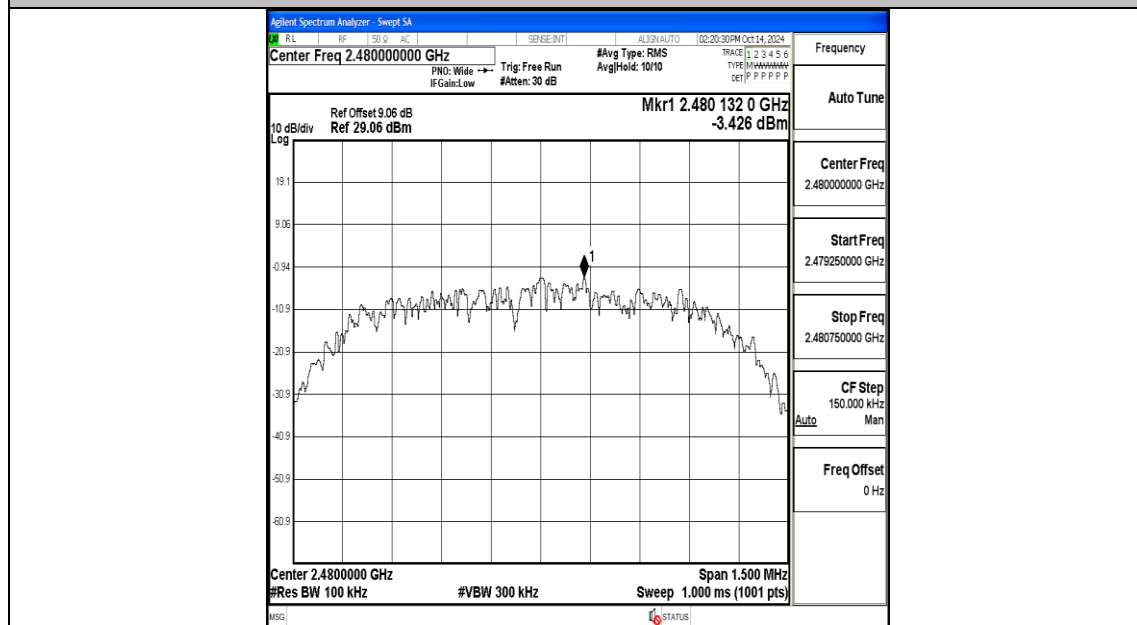
3DH5-Ant1-2441-0~Reference-PASS



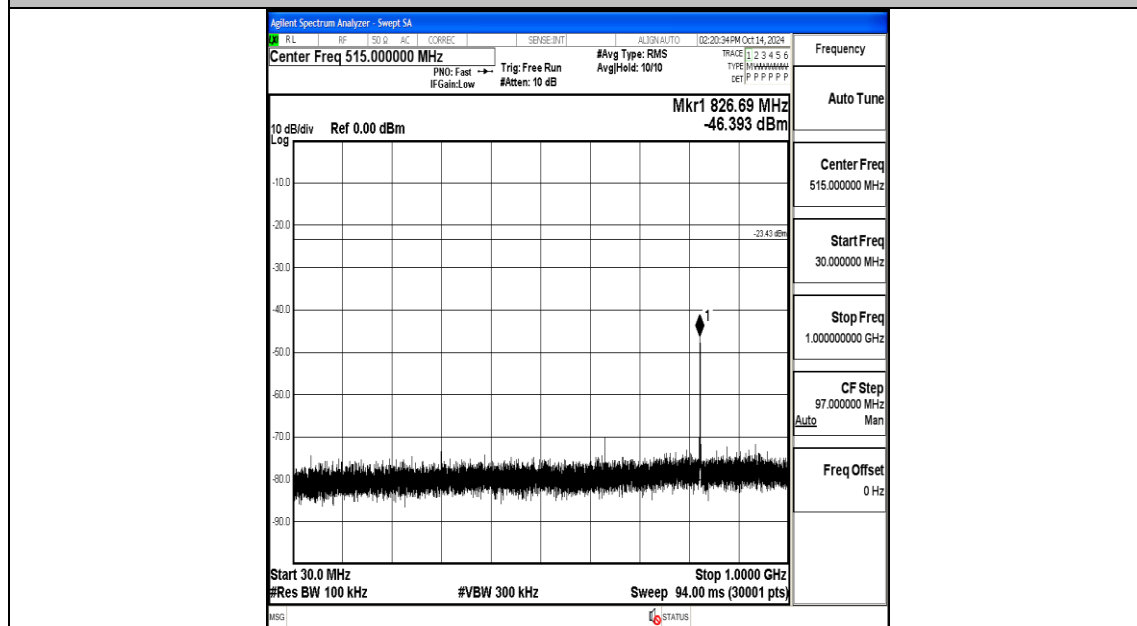
3DH5-Ant1-2441-30~1000-PASS



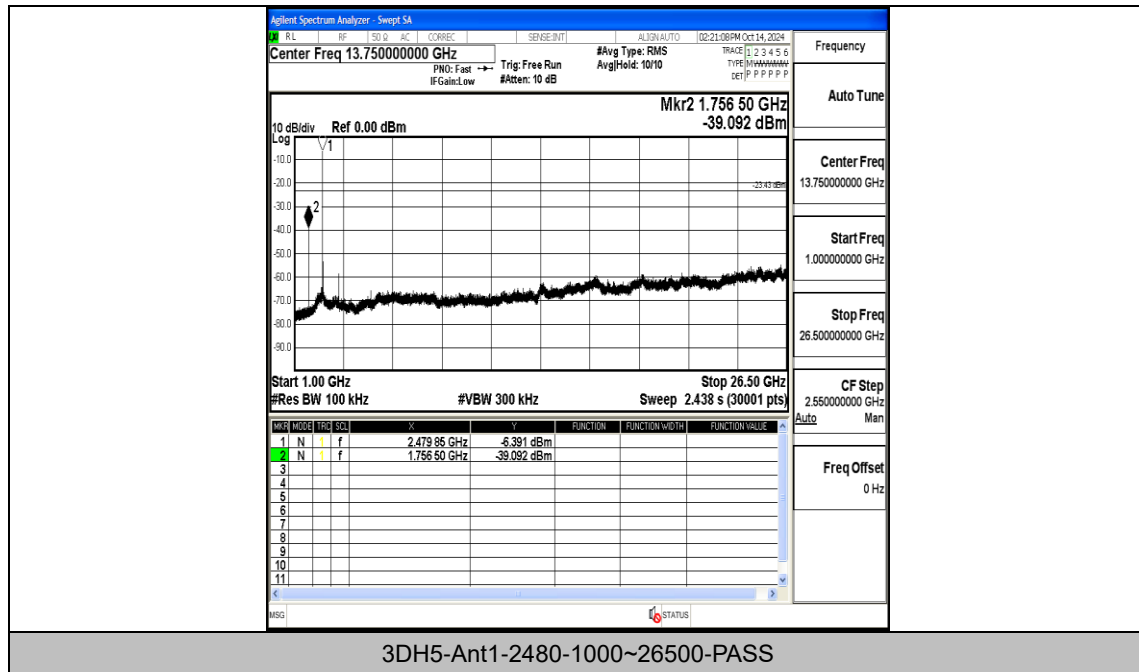
3DH5-Ant1-2441-1000~26500-PASS



3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS

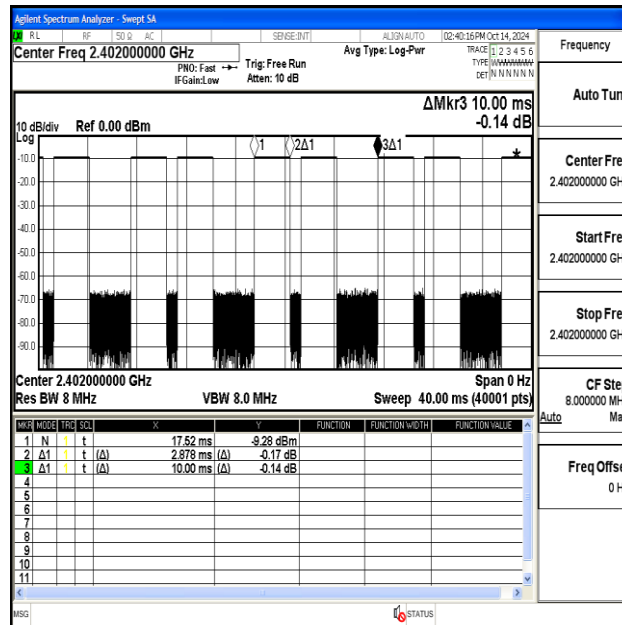


Appendix I: Duty Cycle

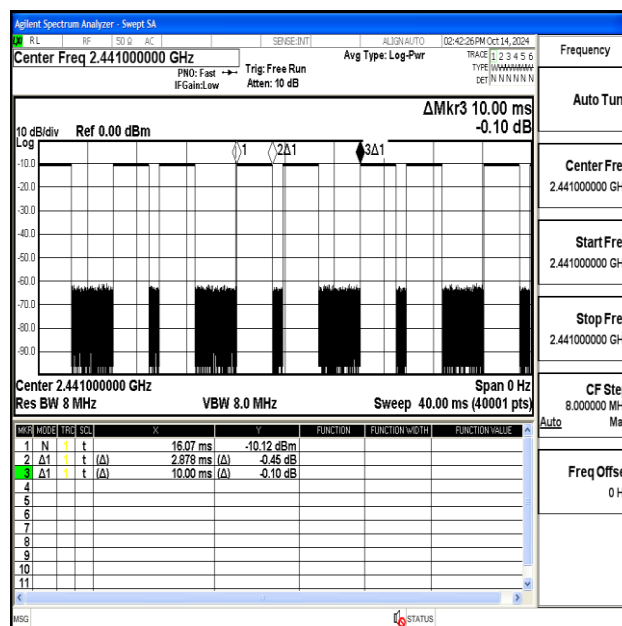
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	5.76	10.00	57.60	3.36
DH5	Ant1	2441	5.76	10.00	57.60	3.36
DH5	Ant1	2480	5.76	10.00	57.60	3.36
2DH5	Ant1	2402	5.60	10.00	56.00	3.35
2DH5	Ant1	2441	5.74	10.00	57.40	3.35
2DH5	Ant1	2480	5.76	10.00	57.60	3.35
3DH5	Ant1	2402	5.70	10.01	56.94	3.35
3DH5	Ant1	2441	5.76	10.00	57.60	3.35
3DH5	Ant1	2480	5.76	10.00	57.60	3.35

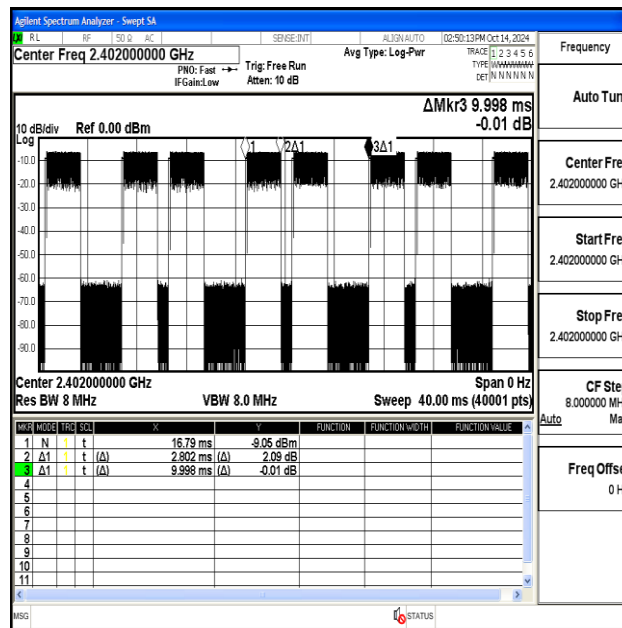
Test Graphs



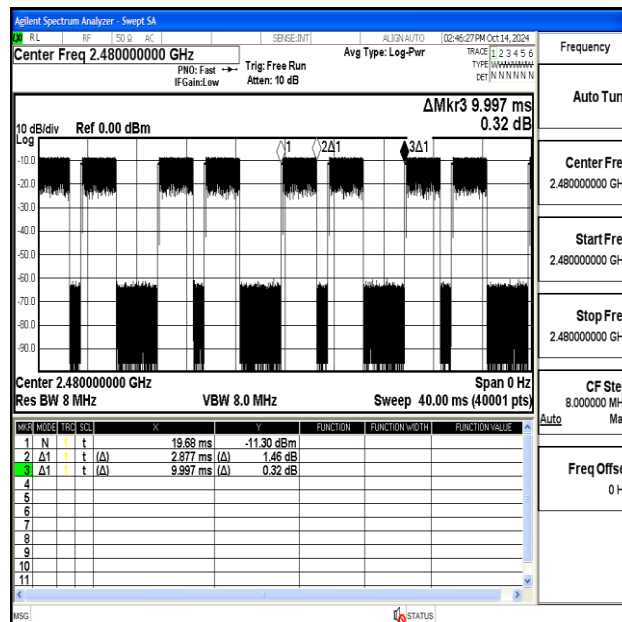
NTNV-DH5-Ant1-2402



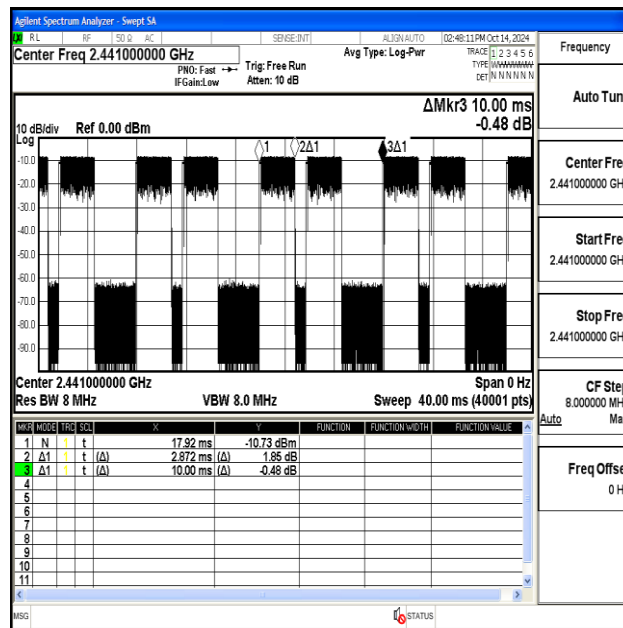
NTNV-DH5-Ant1-2441



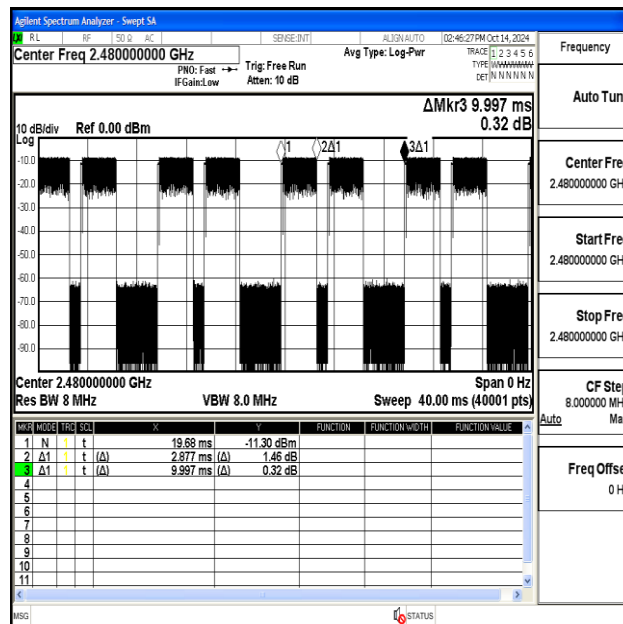
NTNV-DH5-Ant1-2480



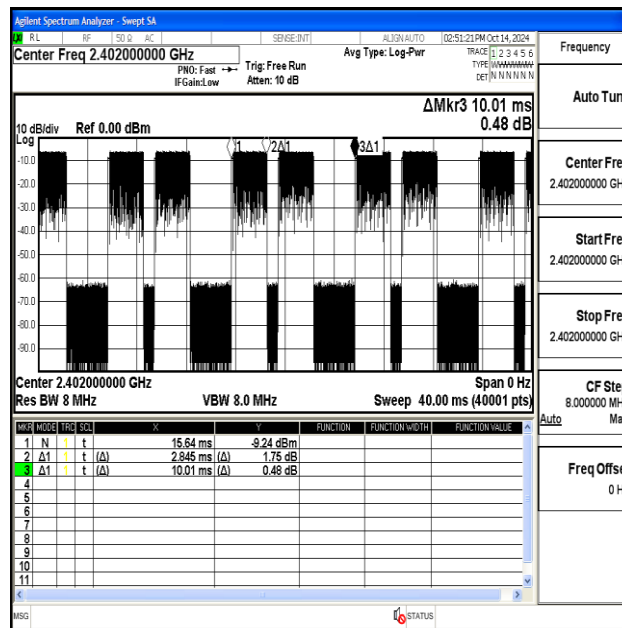
NTNV-2DH5-Ant1-2402



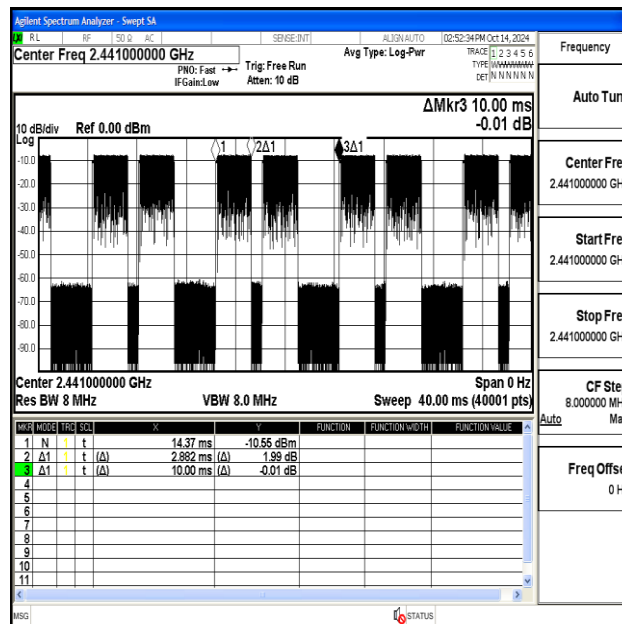
NTNV-2DH5-Ant1-2441



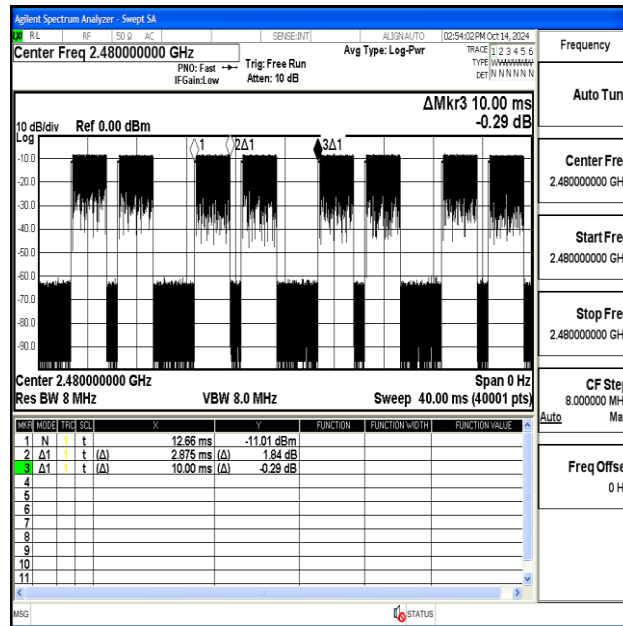
NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480