

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

Product Name: NucBox

Trade Mark: GMKtec

Test Model: M7

FCC ID: 2AXUD-M7

Environmental Conditions

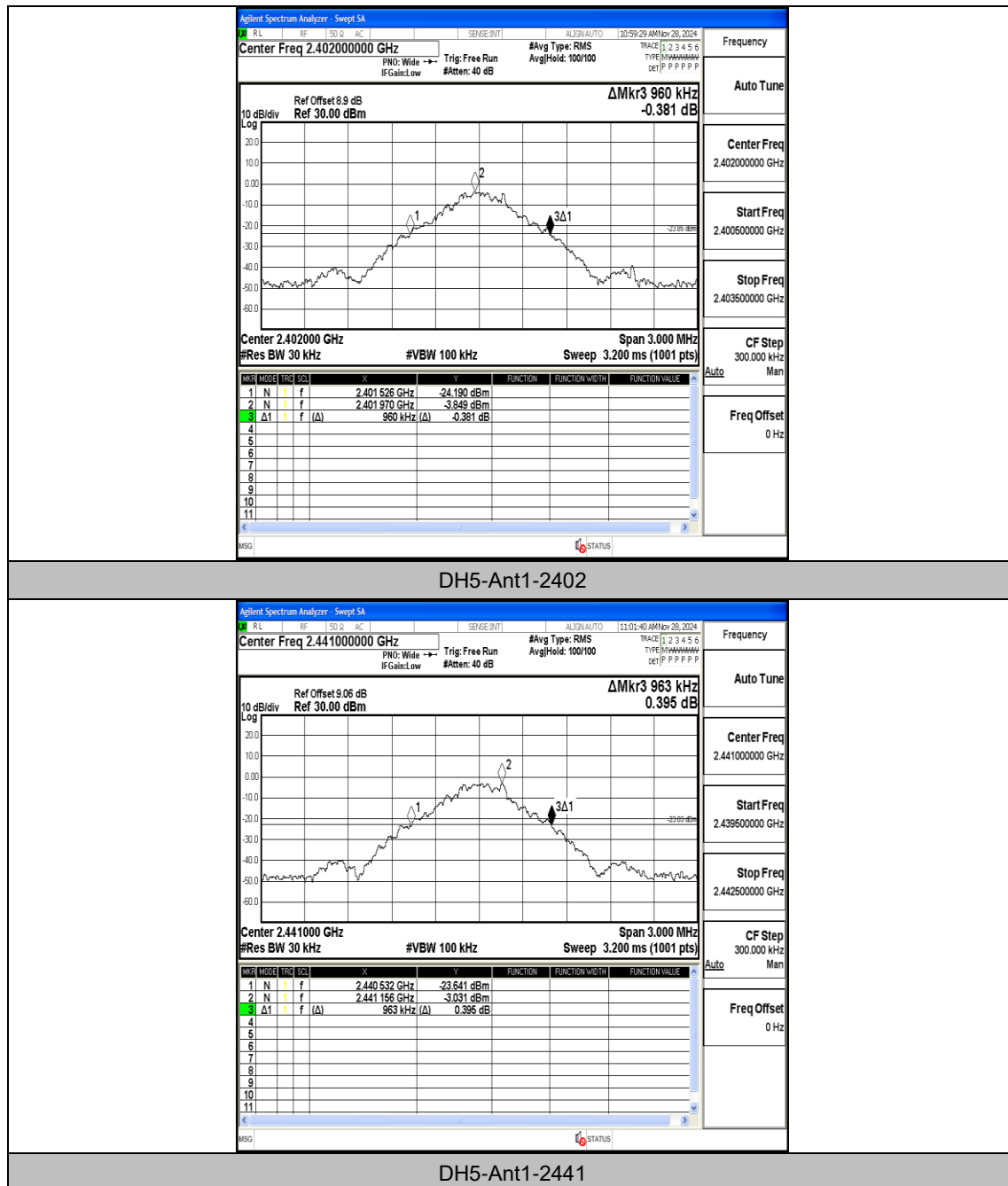
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

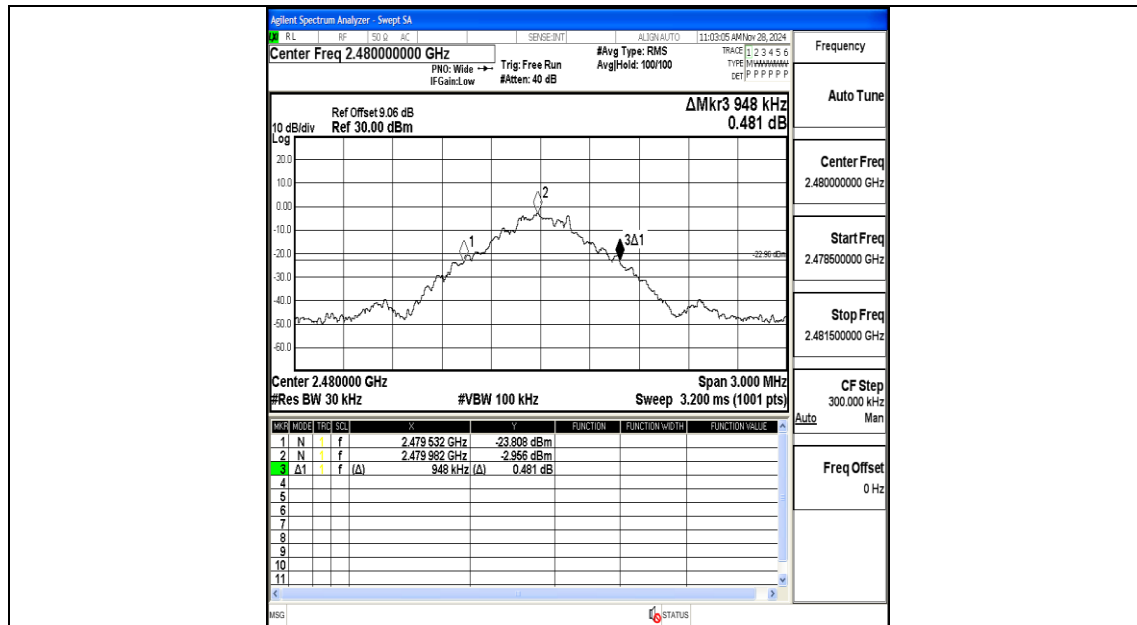
Appendix A: 20dB Emission Bandwidth

Test Result

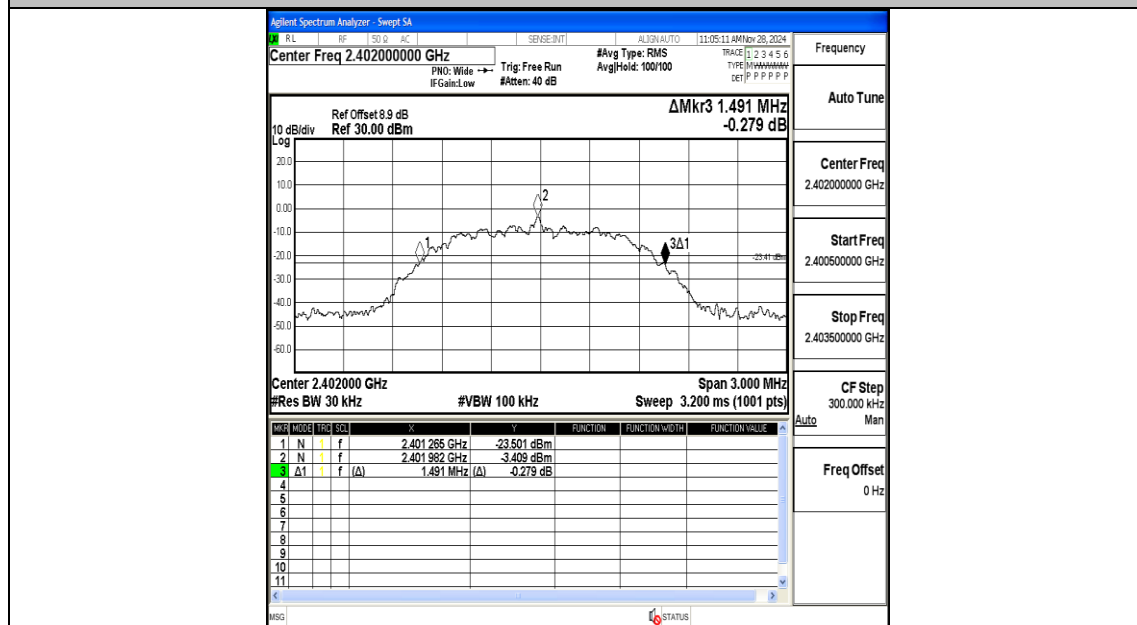
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.960	2401.526	2402.486	---	---
DH5	Ant1	2441	0.963	2440.532	2441.495	---	---
DH5	Ant1	2480	0.948	2479.532	2480.480	---	---
2DH5	Ant1	2402	1.491	2401.265	2402.756	---	---
2DH5	Ant1	2441	1.536	2440.232	2441.768	---	---
2DH5	Ant1	2480	1.437	2479.268	2480.705	---	---
3DH5	Ant1	2402	1.482	2401.268	2402.750	---	---
3DH5	Ant1	2441	1.452	2440.271	2441.723	---	---
3DH5	Ant1	2480	1.509	2479.259	2480.768	---	---

Test Graphs

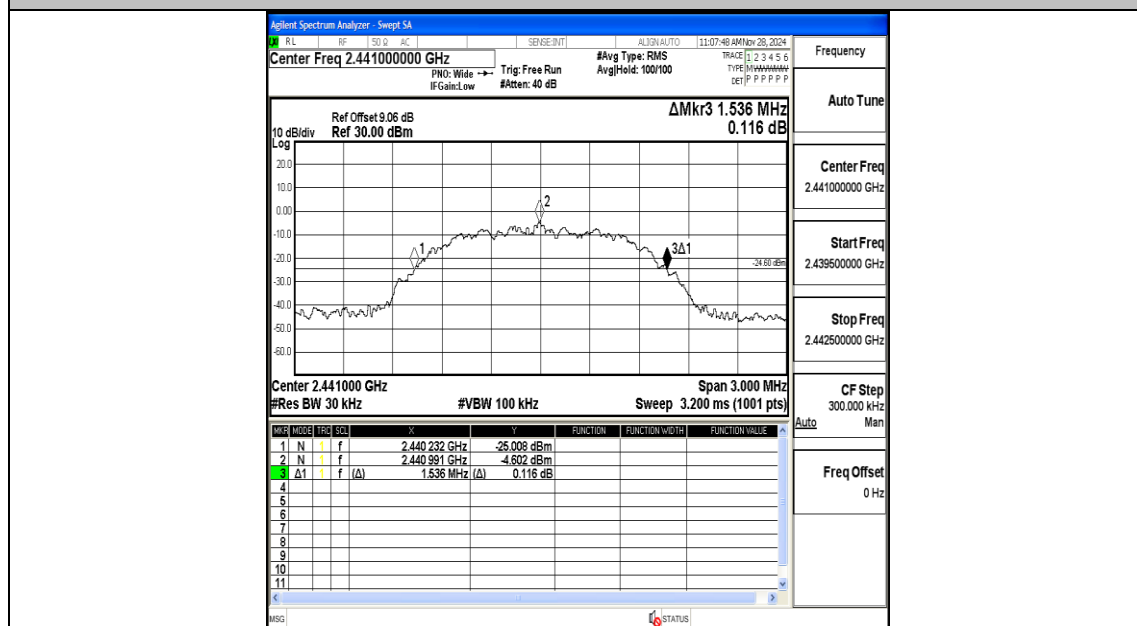




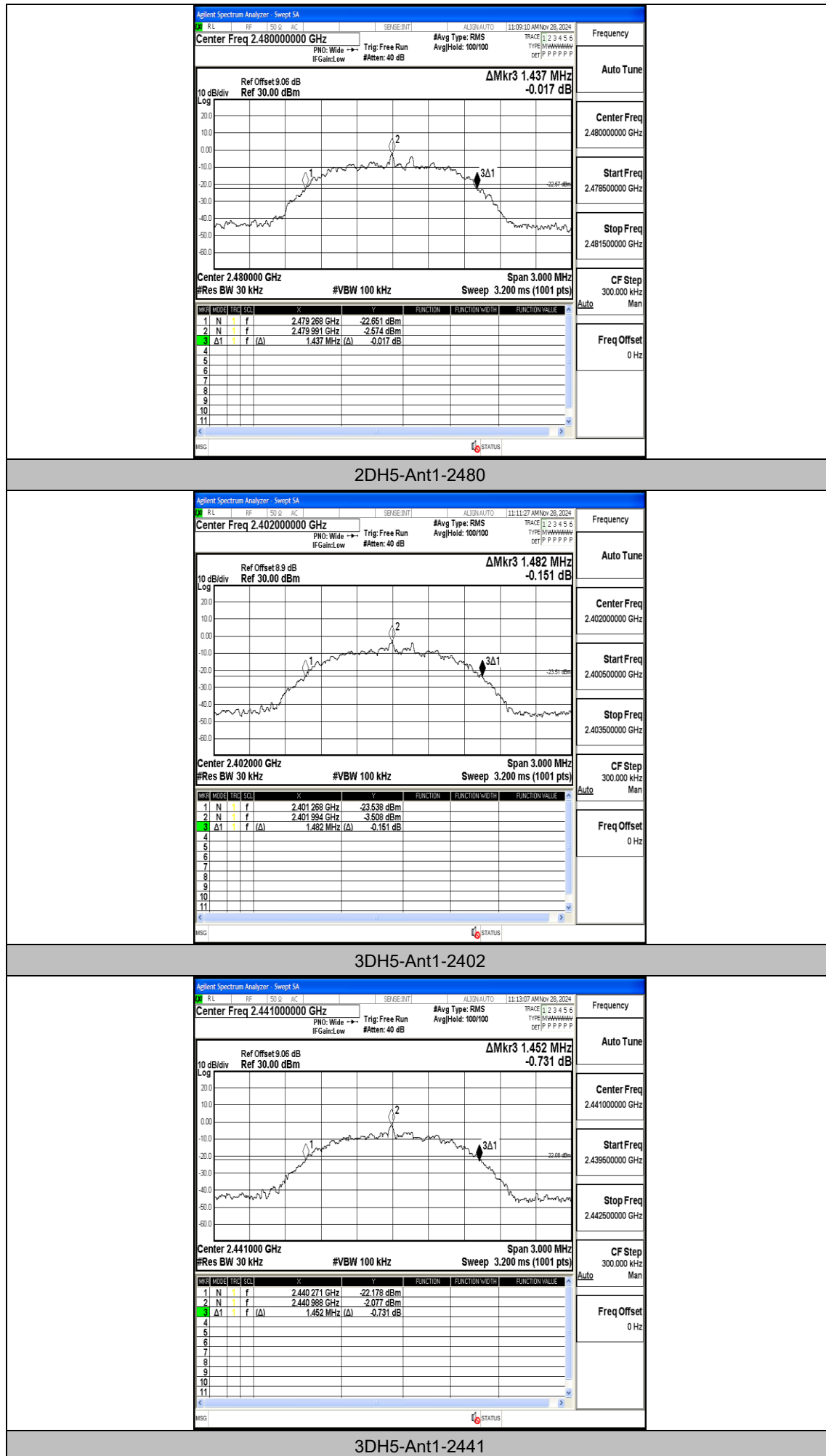
DH5-Ant1-2480

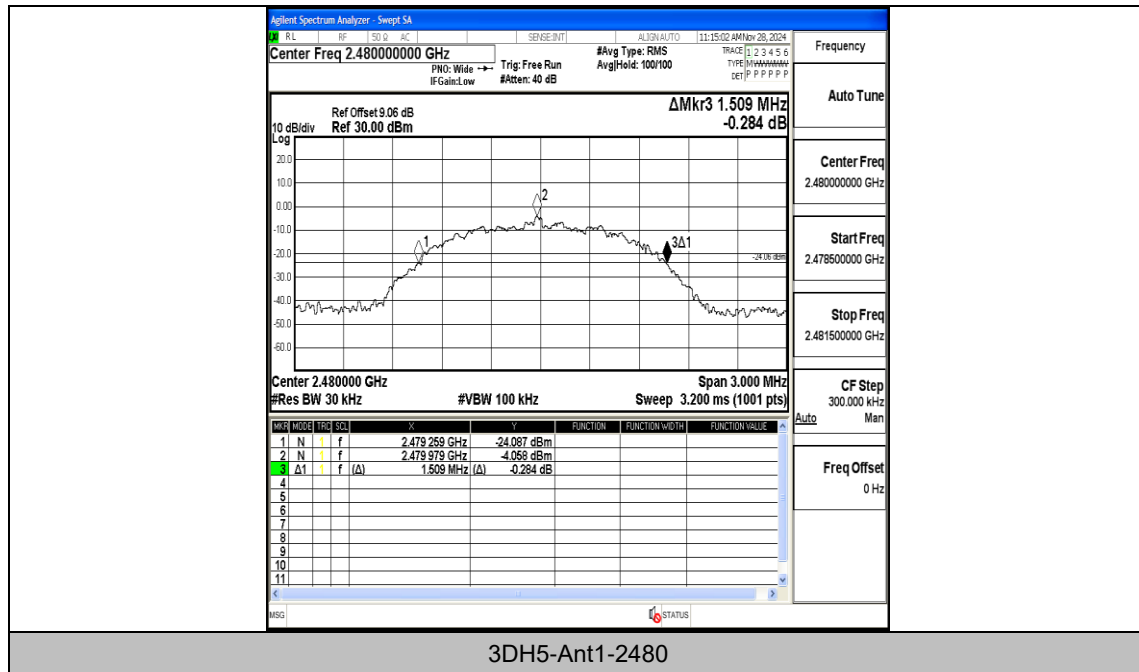


2DH5-Ant1-2402



2DH5-Ant1-2441



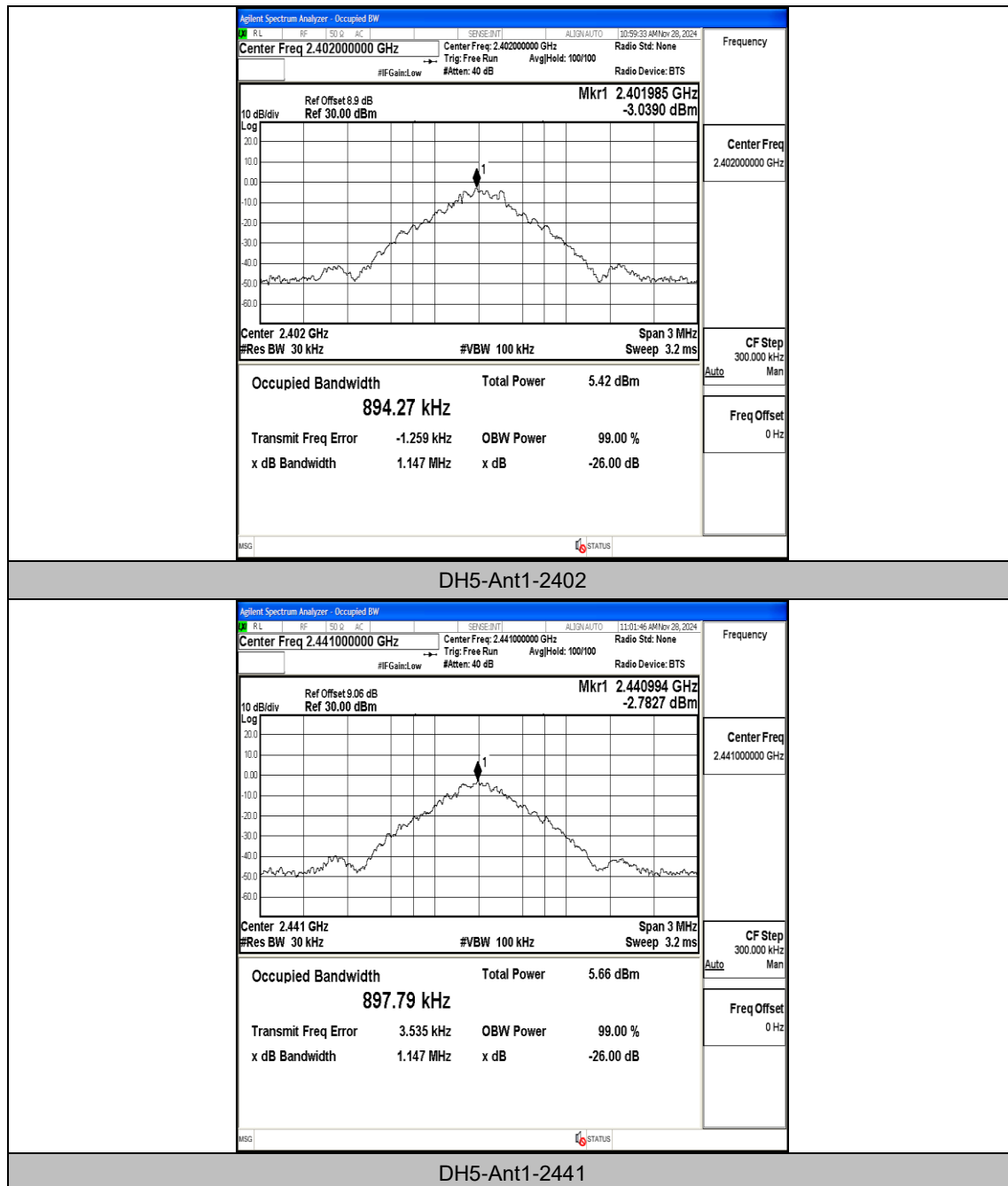


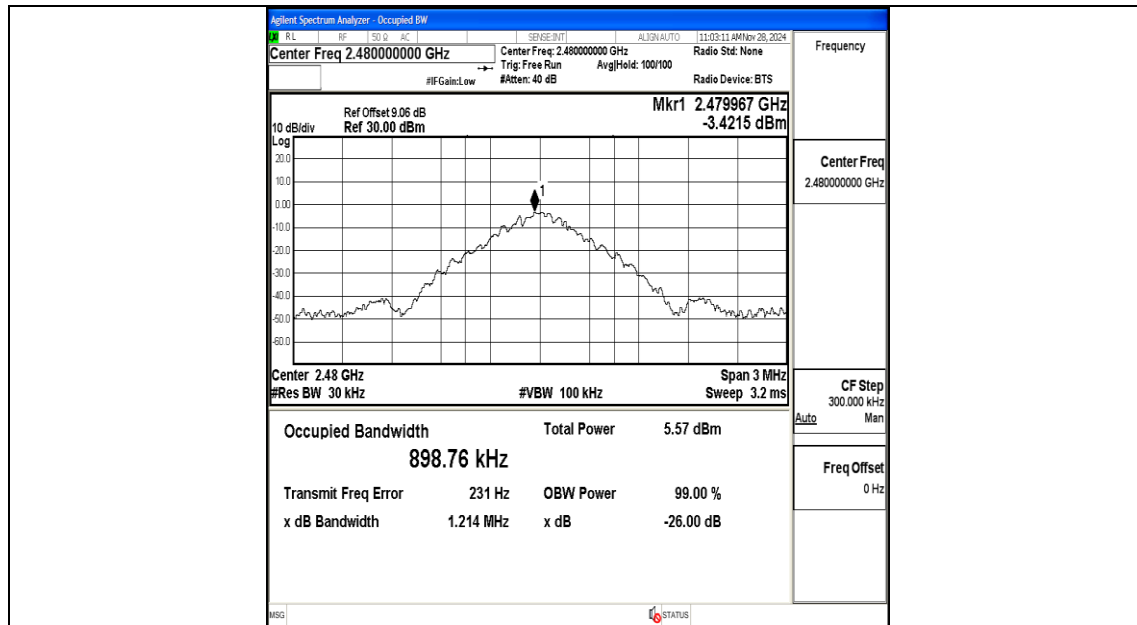
Appendix B: Occupied Channel Bandwidth

Test Result

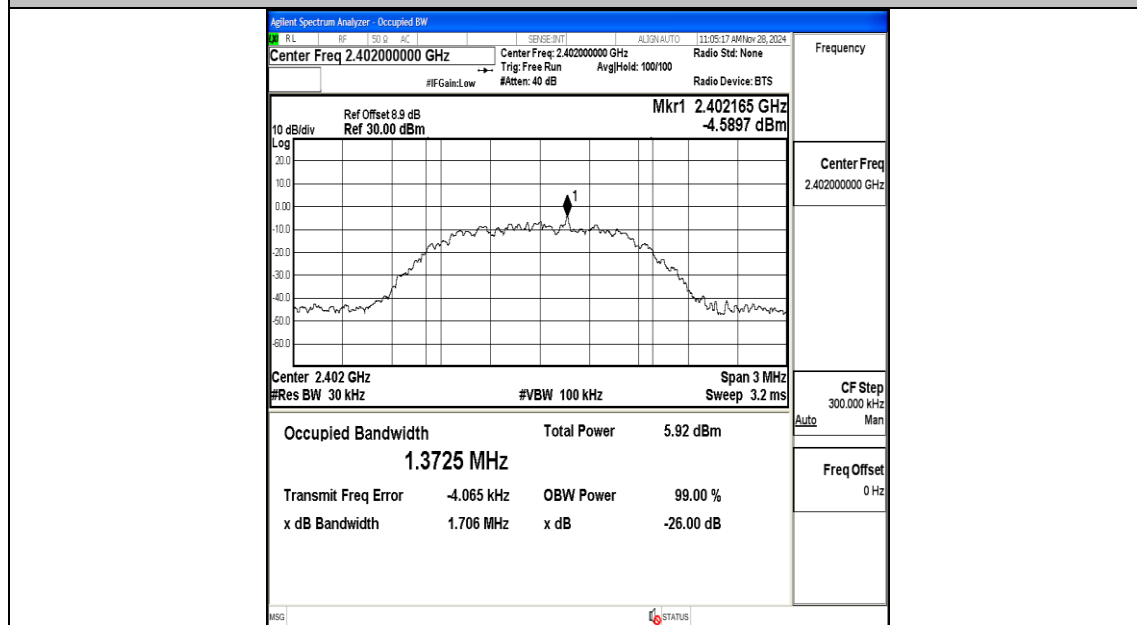
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.89427	2401.5516	2402.4459	---	---
DH5	Ant1	2441	0.89779	2440.5546	2441.4524	---	---
DH5	Ant1	2480	0.89876	2479.5509	2480.4496	---	---
2DH5	Ant1	2402	1.3725	2401.3097	2402.6822	---	---
2DH5	Ant1	2441	1.3720	2440.3095	2441.6815	---	---
2DH5	Ant1	2480	1.3675	2479.3124	2480.6799	---	---
3DH5	Ant1	2402	1.3690	2401.3146	2402.6836	---	---
3DH5	Ant1	2441	1.3649	2440.3157	2441.6806	---	---
3DH5	Ant1	2480	1.3797	2479.3084	2480.6881	---	---

Test Graphs

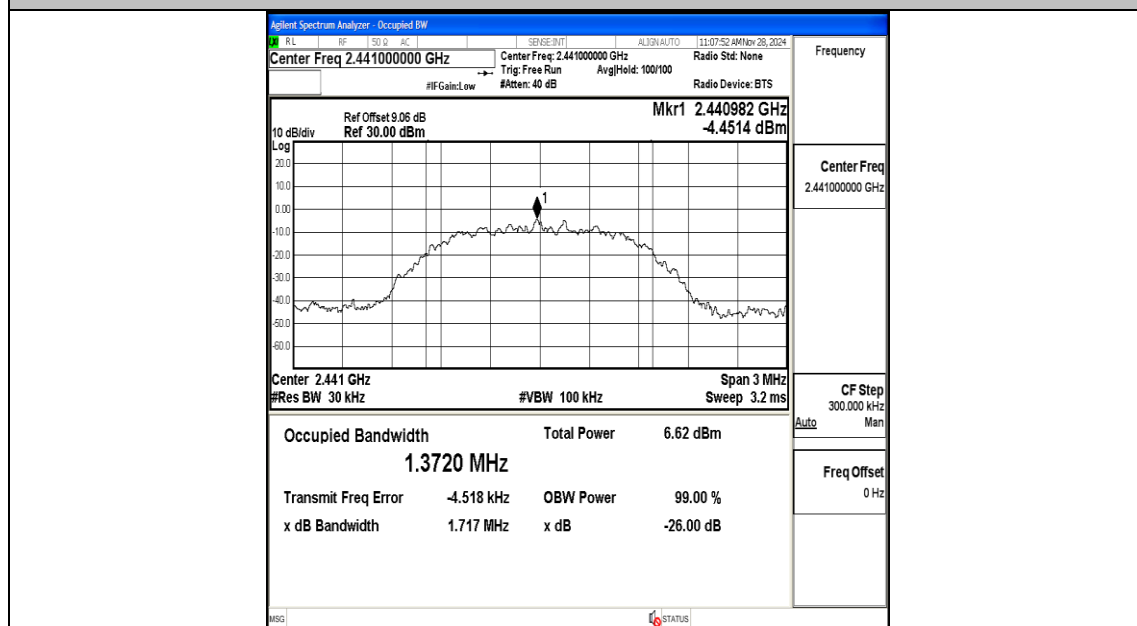




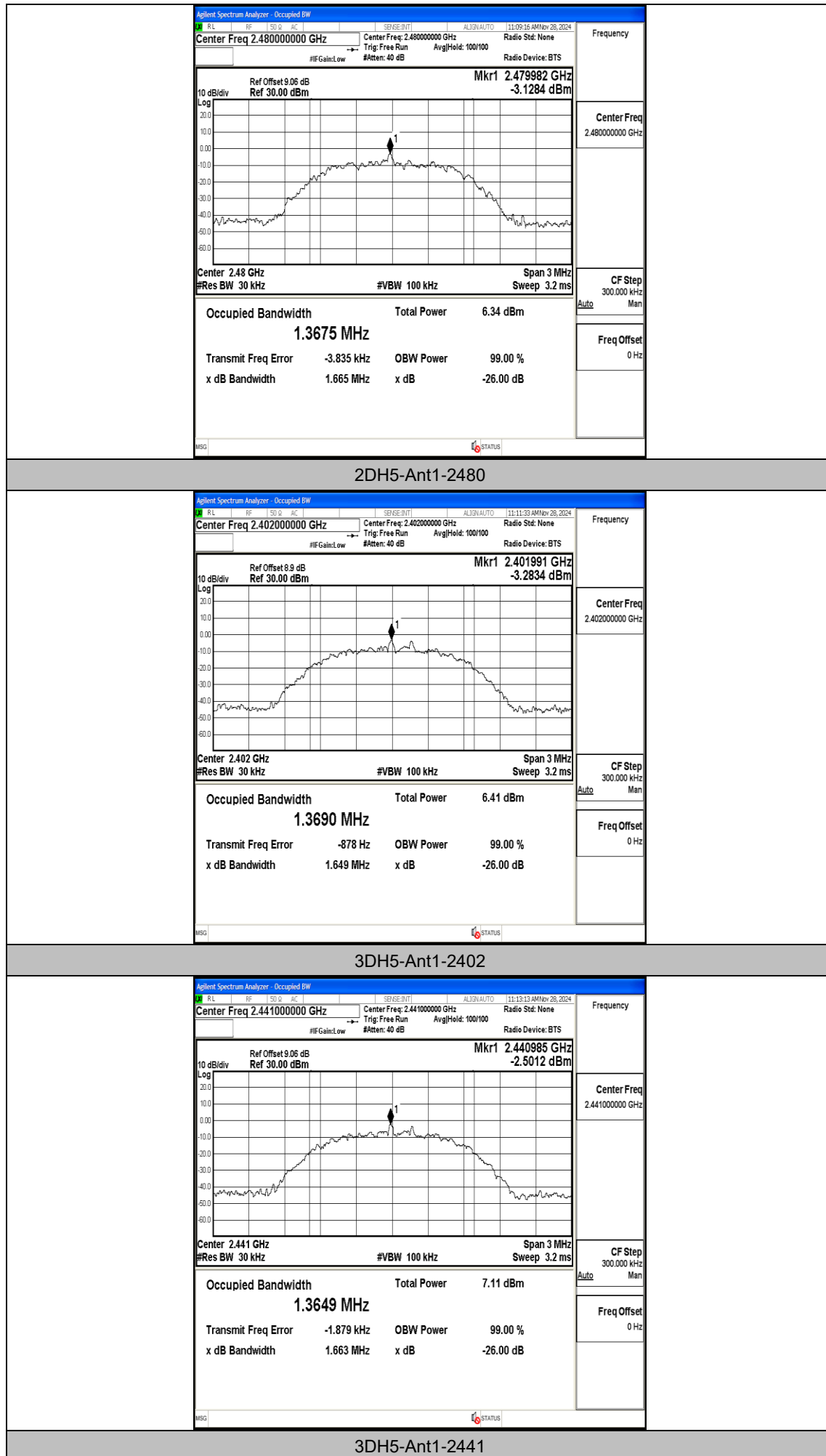
DH5-Ant1-2480

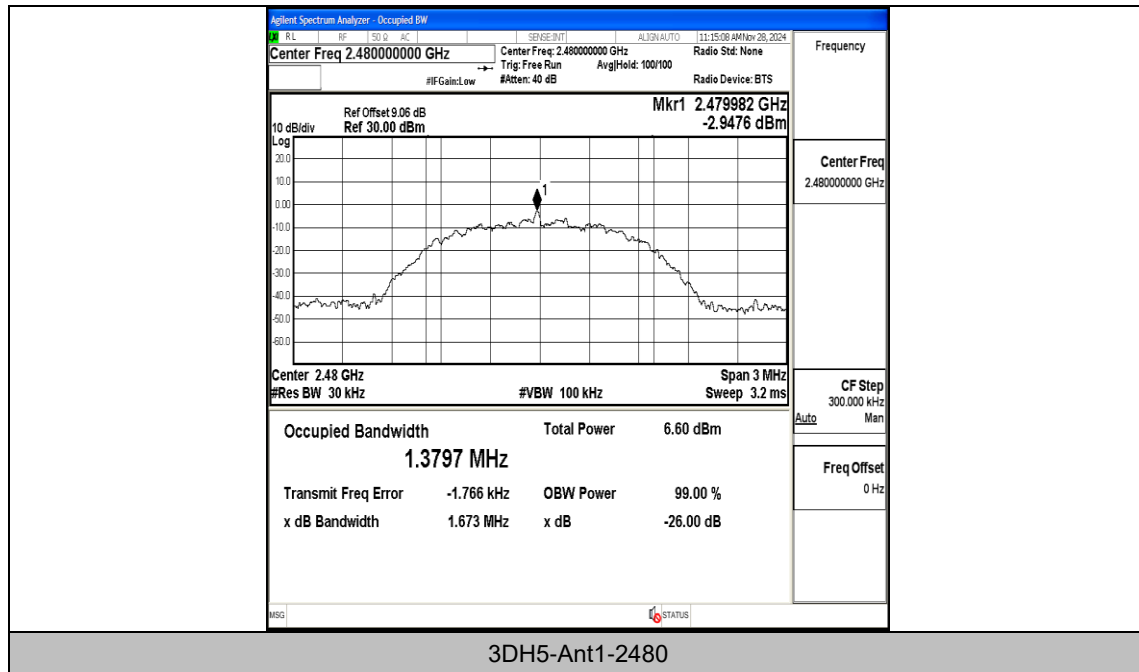


2DH5-Ant1-2402



2DH5-Ant1-2441



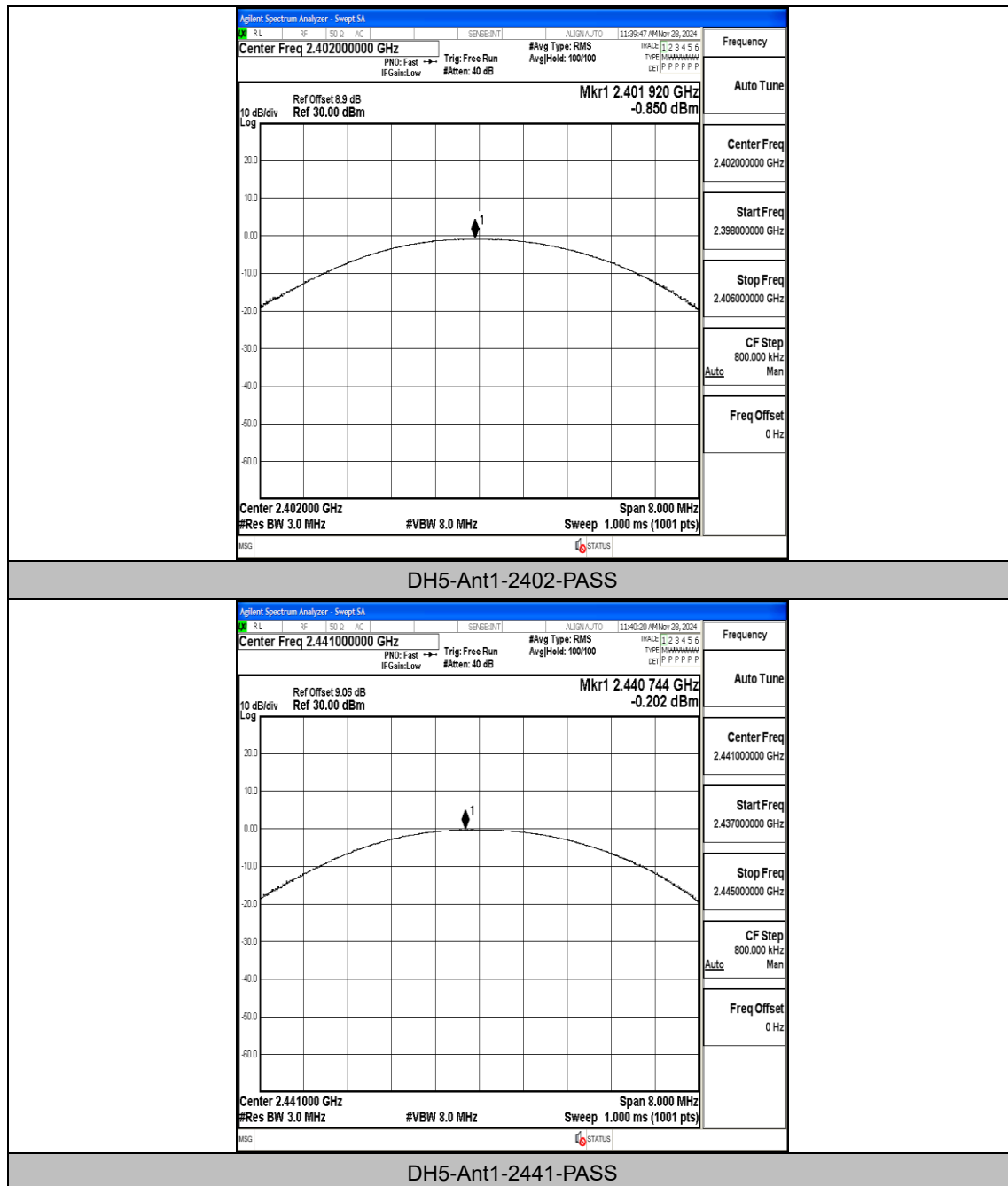


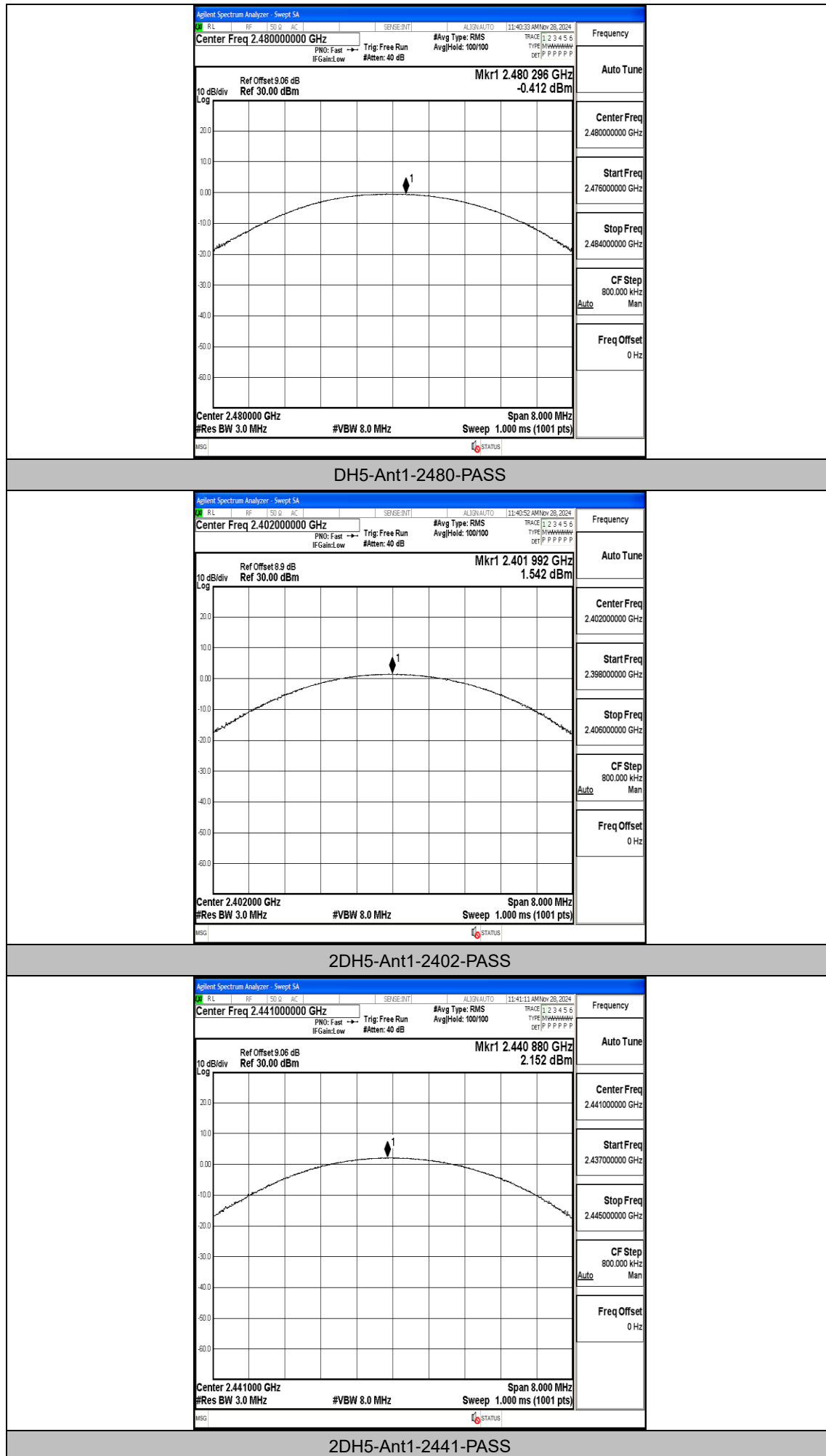
Appendix C: Maximum peak conducted output power

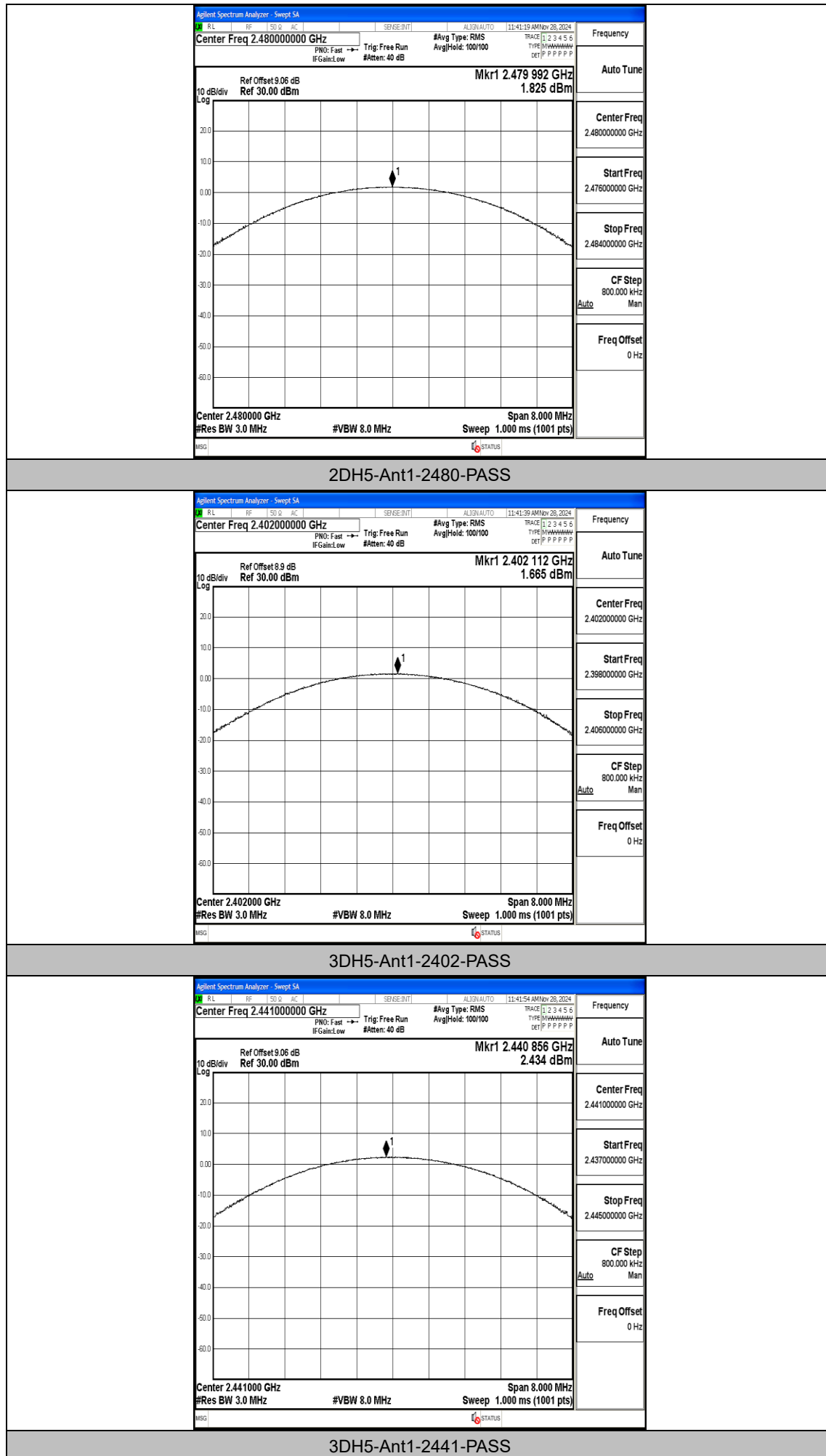
Test Result

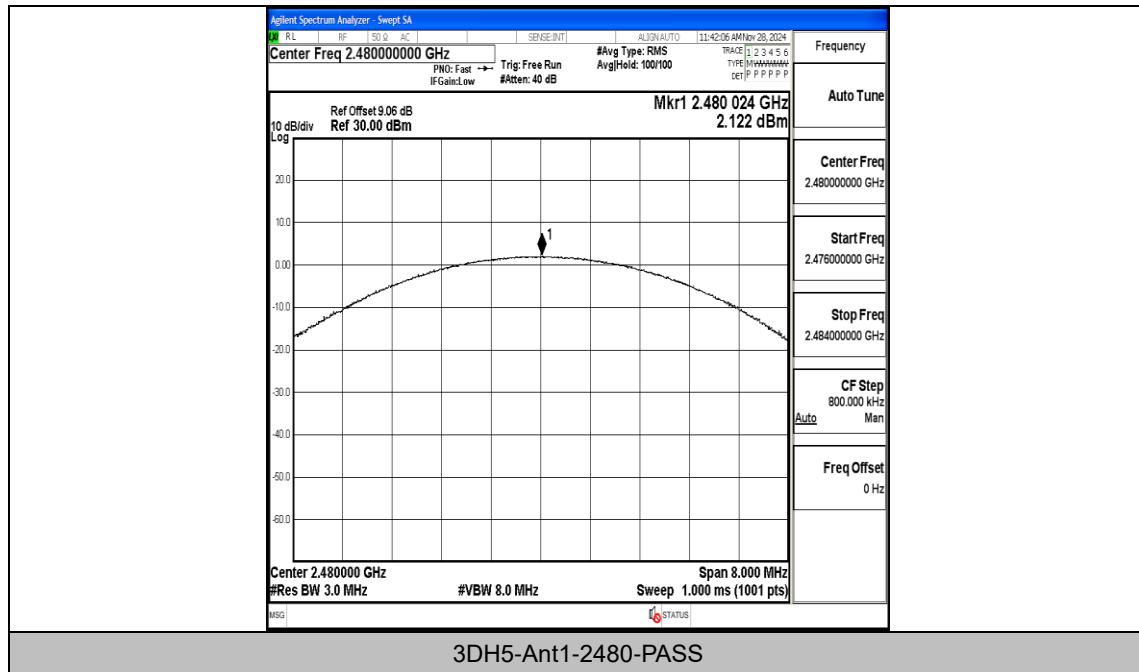
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-0.85	≤30	PASS
DH5	Ant1	2441	-0.20	≤30	PASS
DH5	Ant1	2480	-0.41	≤30	PASS
2DH5	Ant1	2402	1.54	≤20.97	PASS
2DH5	Ant1	2441	2.15	≤20.97	PASS
2DH5	Ant1	2480	1.83	≤20.97	PASS
3DH5	Ant1	2402	1.67	≤20.97	PASS
3DH5	Ant1	2441	2.43	≤20.97	PASS
3DH5	Ant1	2480	2.12	≤20.97	PASS

Test Graphs







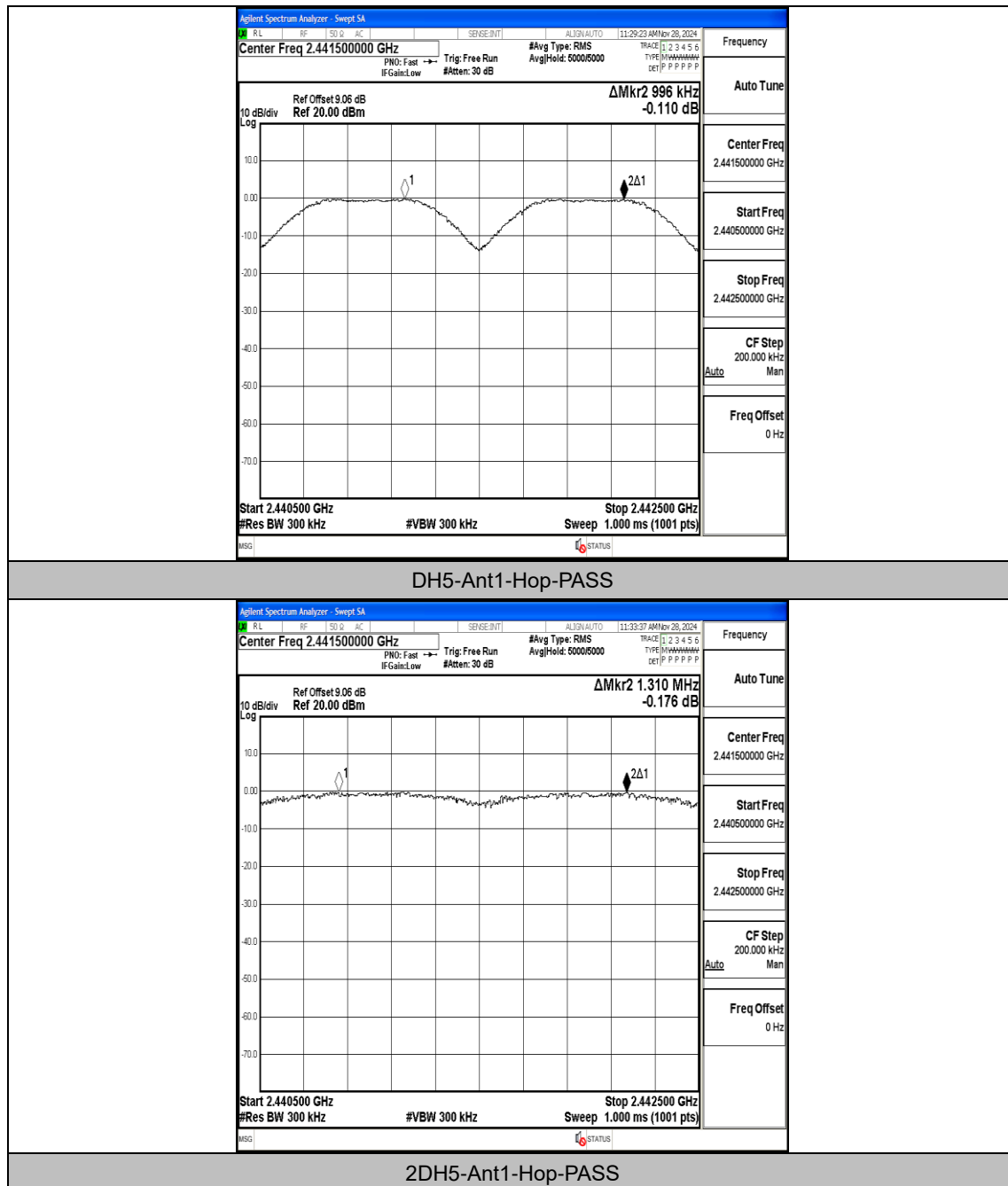


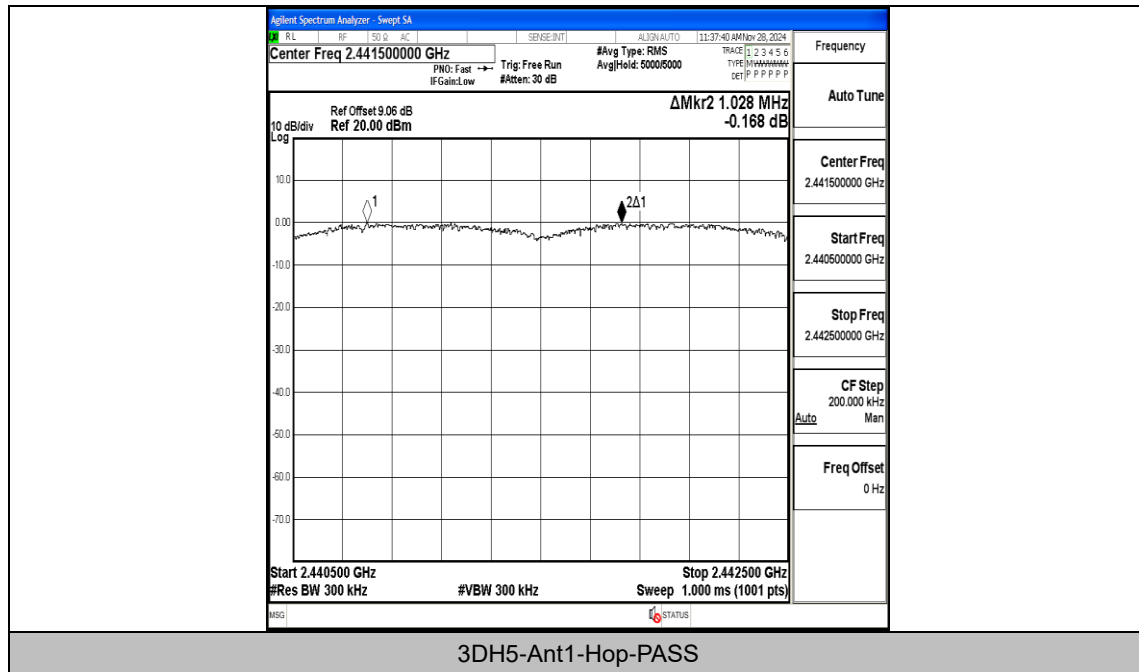
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.963	PASS
2DH5	Ant1	Hop	1.31	≥ 1.024	PASS
3DH5	Ant1	Hop	1.028	≥ 1.006	PASS

Test Graphs



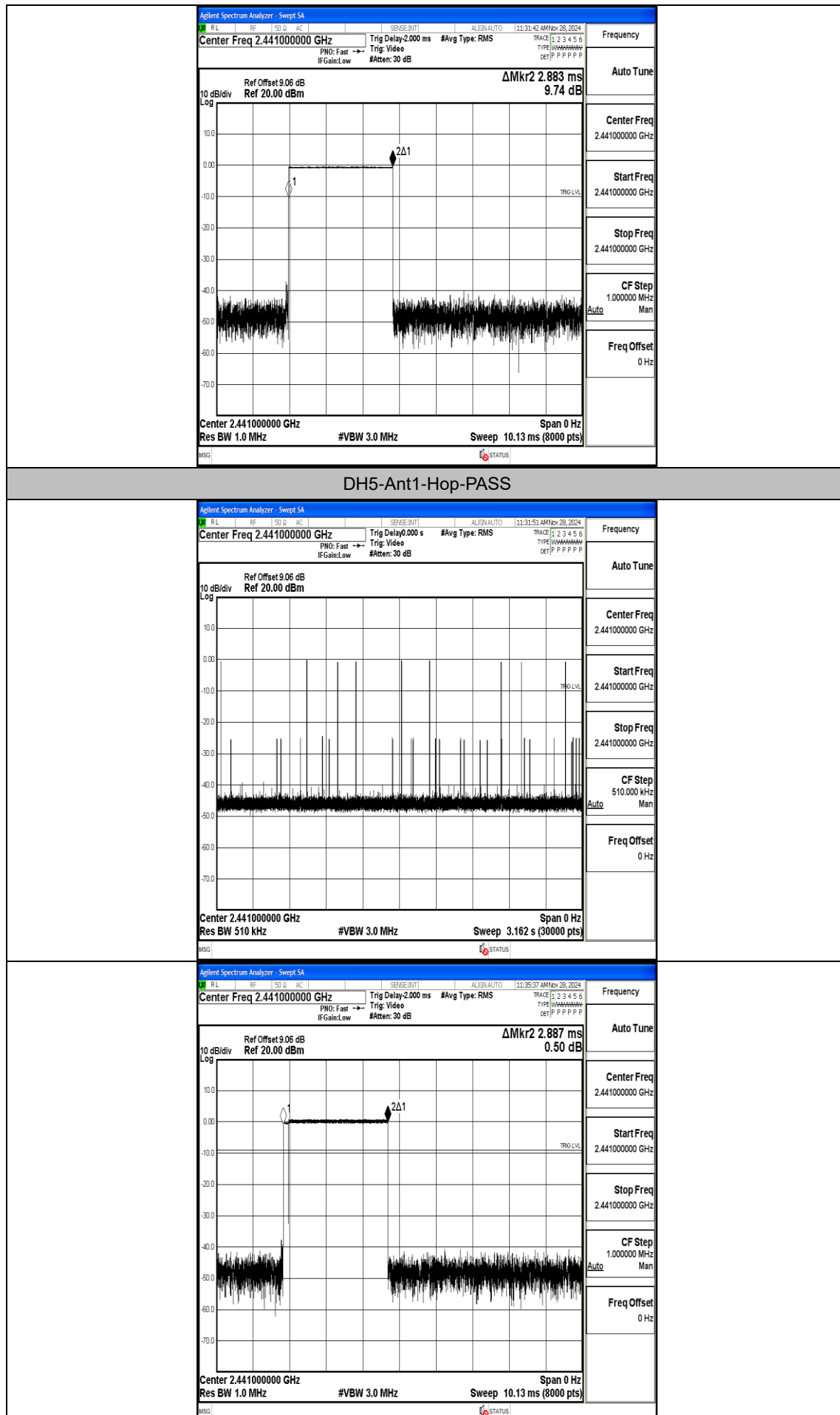


Appendix E: Time of occupancy

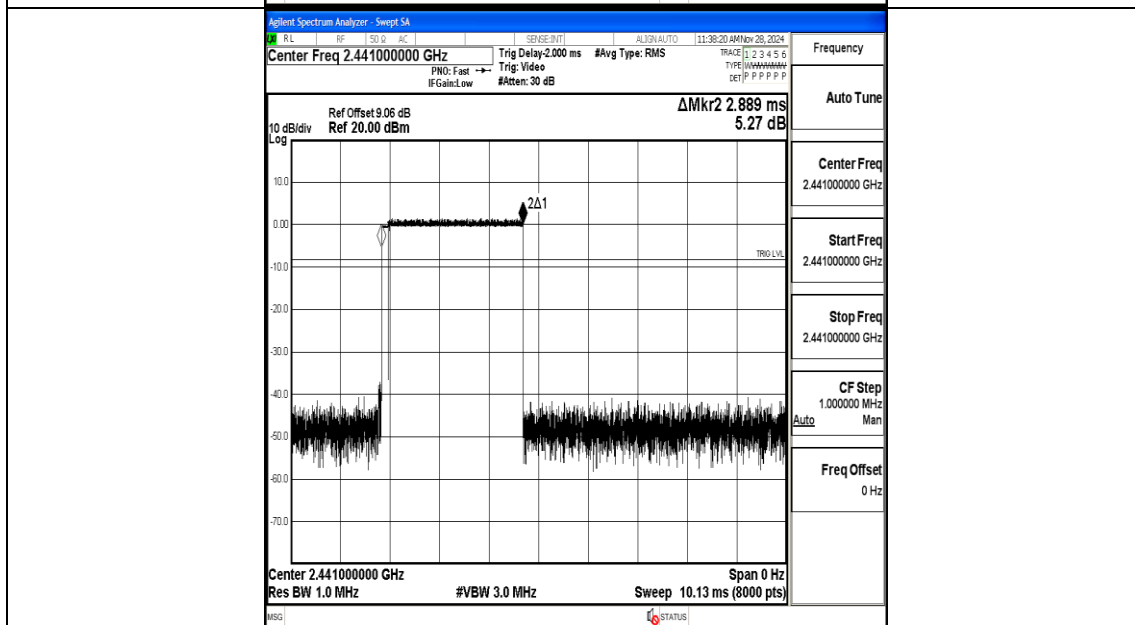
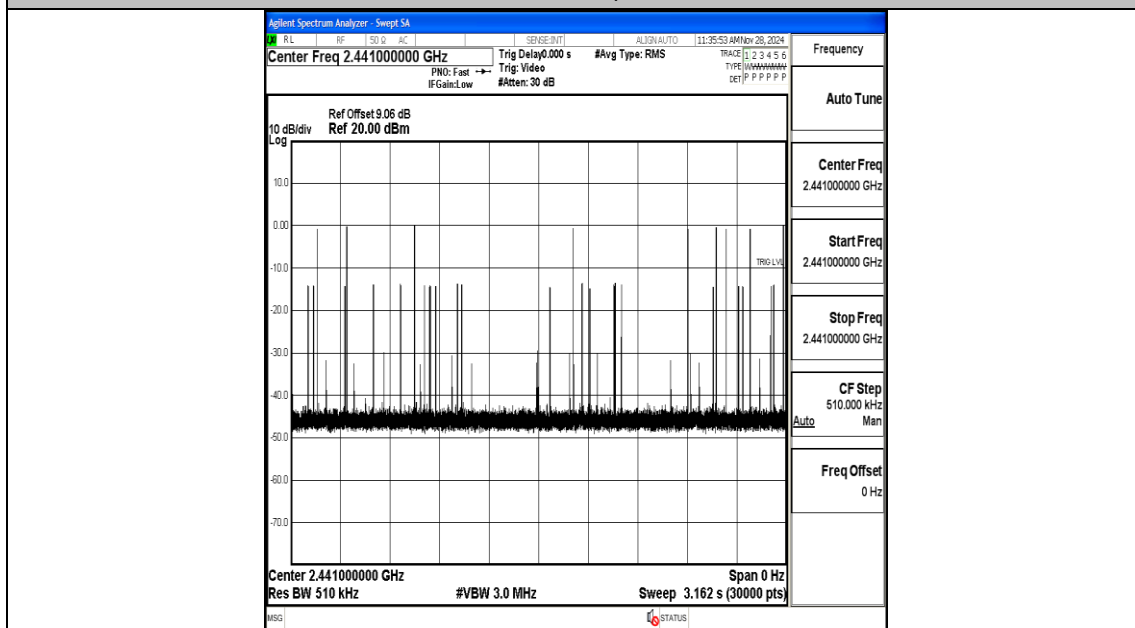
Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.883	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.887	100	0.289	≤0.4	PASS
3DH5	Ant1	Hop	2.889	130	0.376	≤0.4	PASS

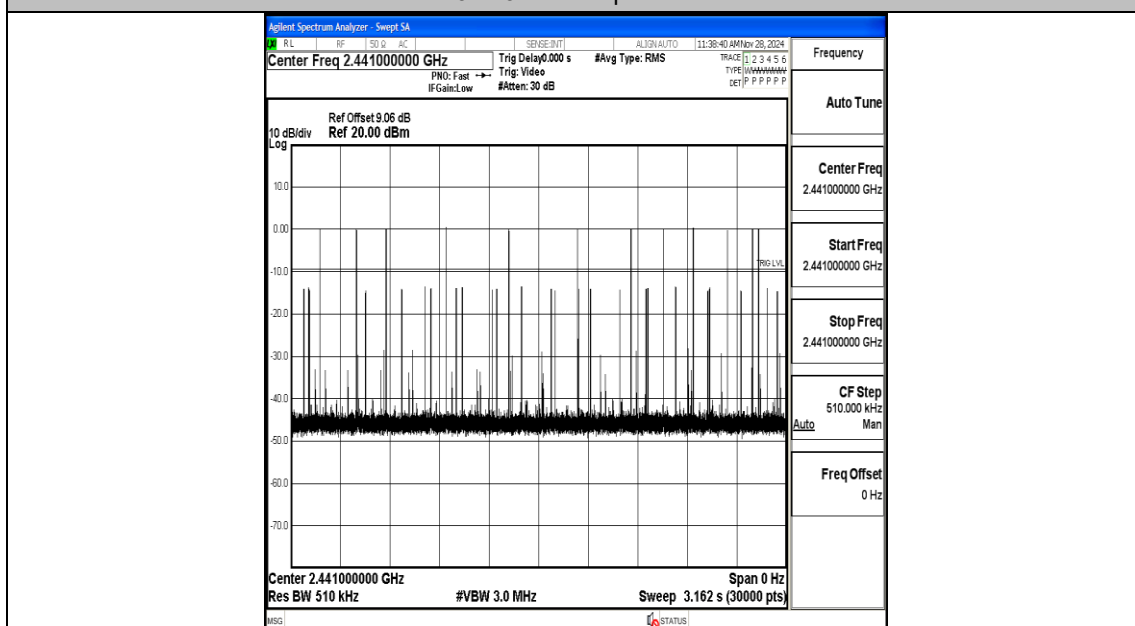
Test Graphs



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

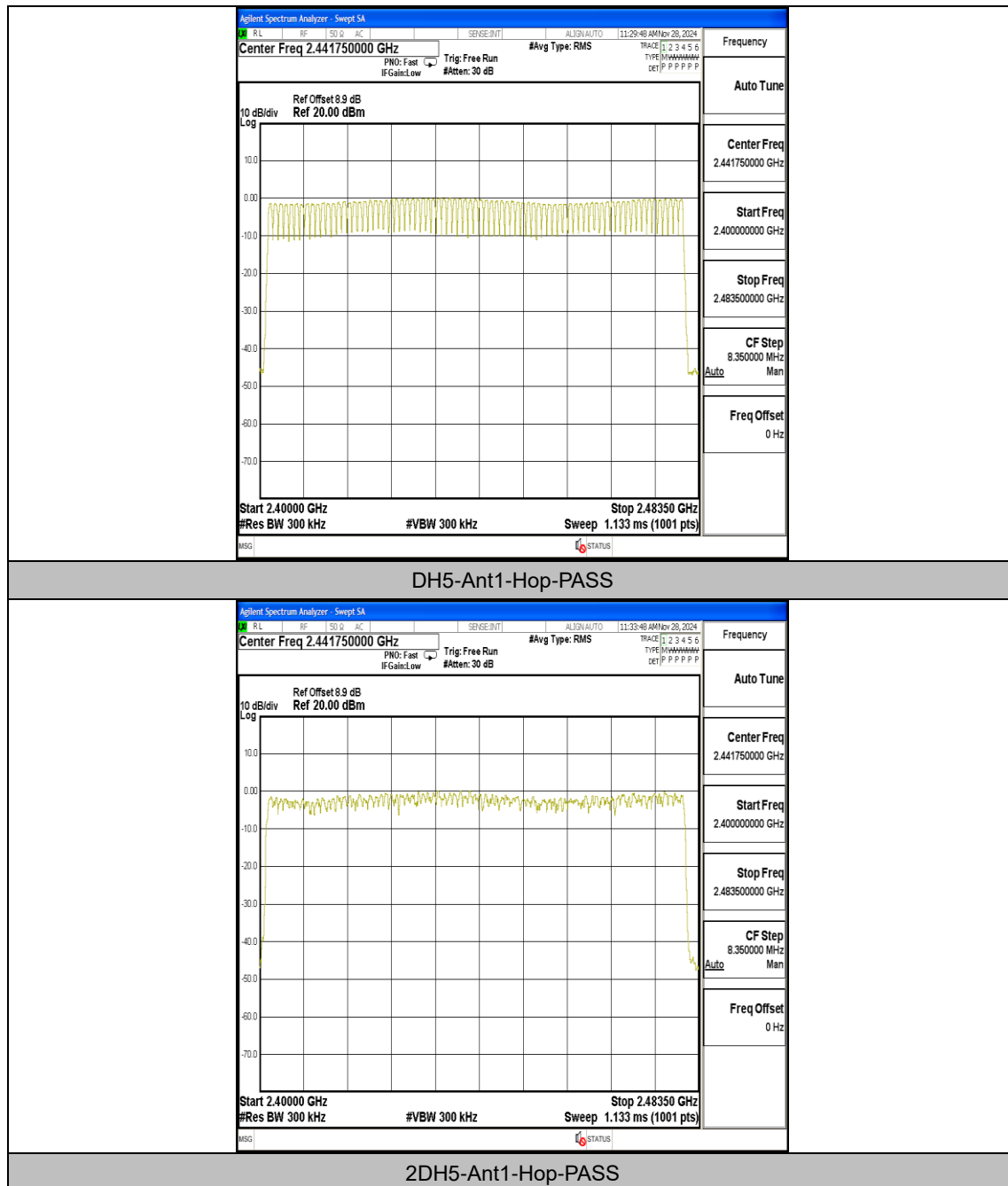


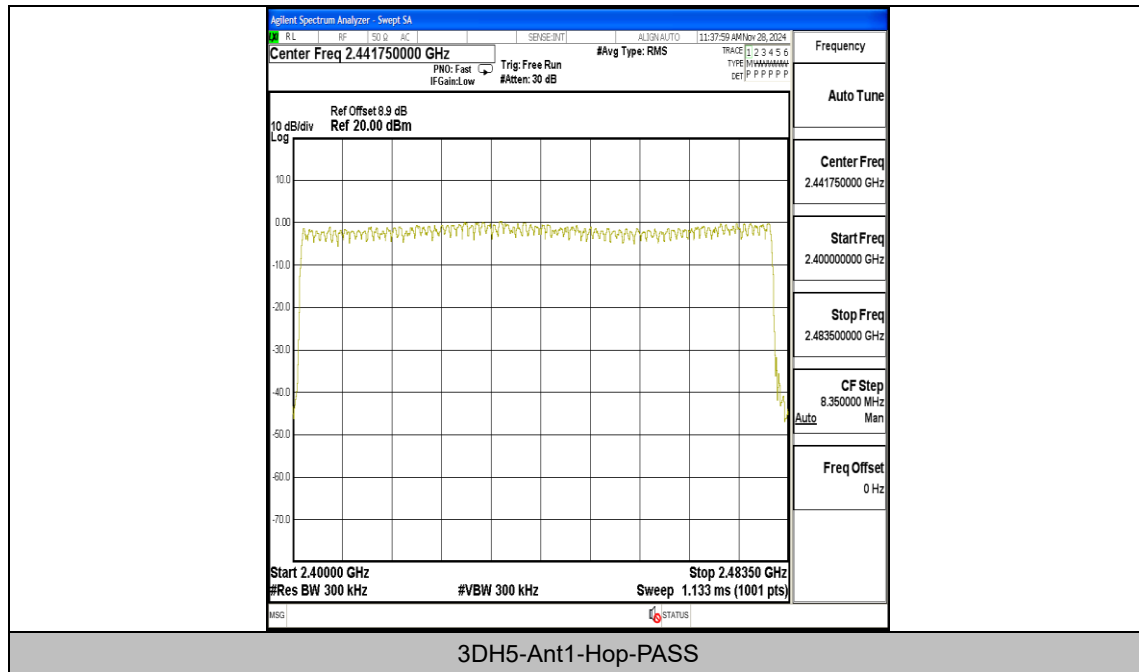
Appendix F: Number of hopping channels

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



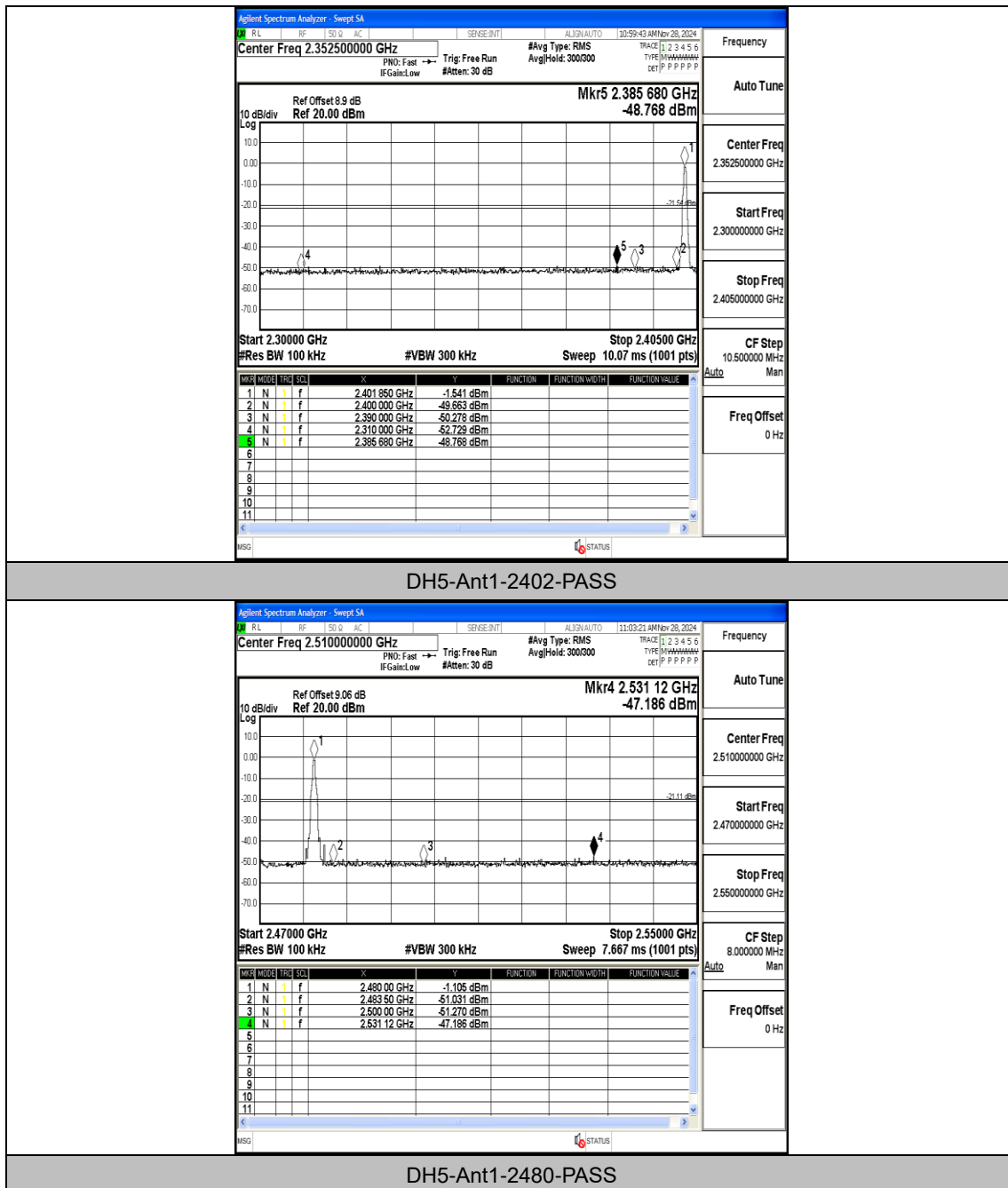


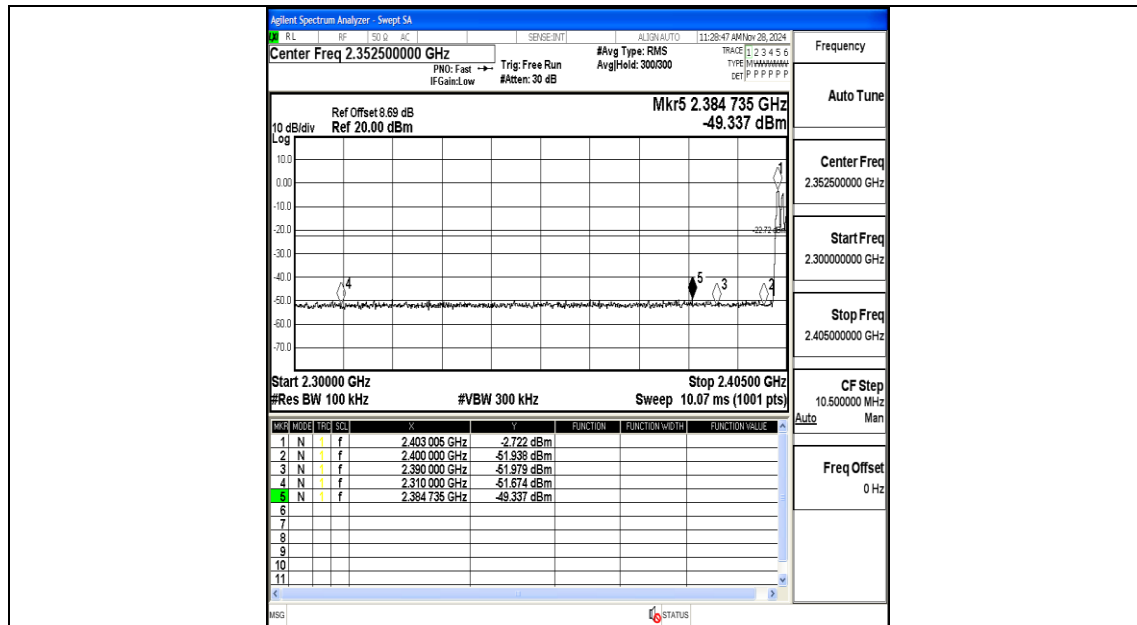
Appendix G: Band edge measurements

Test Result

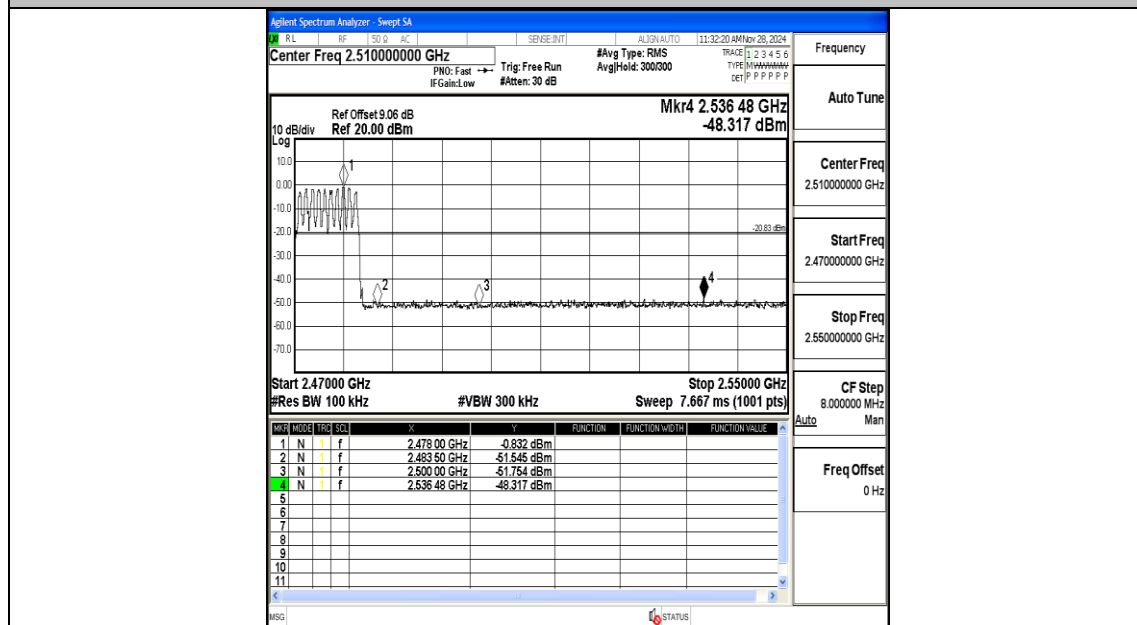
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.54	-48.77	≤ -21.54	PASS
DH5	Ant1	High	2480	-1.11	-47.19	≤ -21.11	PASS
DH5	Ant1	Low	Hop_2402	-2.72	-49.34	≤ -22.72	PASS
DH5	Ant1	High	Hop_2480	-0.83	-48.32	≤ -20.83	PASS
2DH5	Ant1	Low	2402	-1.36	-45.8	≤ -21.36	PASS
2DH5	Ant1	High	2480	-1.04	-44.12	≤ -21.04	PASS
2DH5	Ant1	Low	Hop_2402	-4.07	-48.59	≤ -24.07	PASS
2DH5	Ant1	High	Hop_2480	-1.33	-48.02	≤ -21.33	PASS
3DH5	Ant1	Low	2402	-1.80	-45.21	≤ -21.8	PASS
3DH5	Ant1	High	2480	-1.77	-41.08	≤ -21.77	PASS
3DH5	Ant1	Low	Hop_2402	-4.40	-49.21	≤ -24.4	PASS
3DH5	Ant1	High	Hop_2480	-2.90	-48.54	≤ -22.9	PASS

Test Graphs

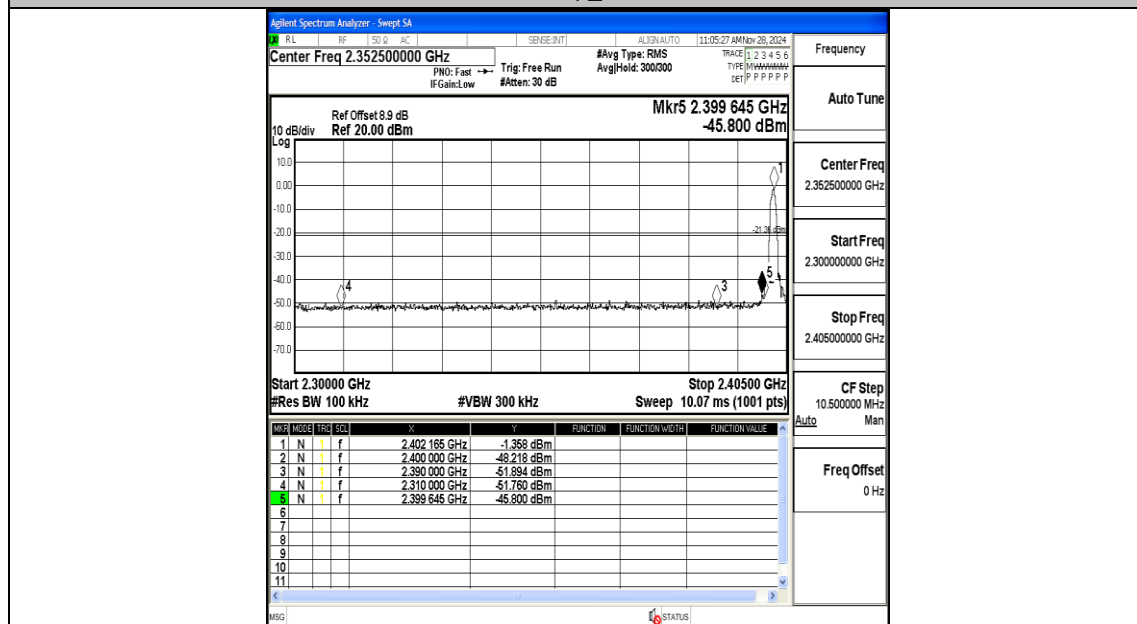




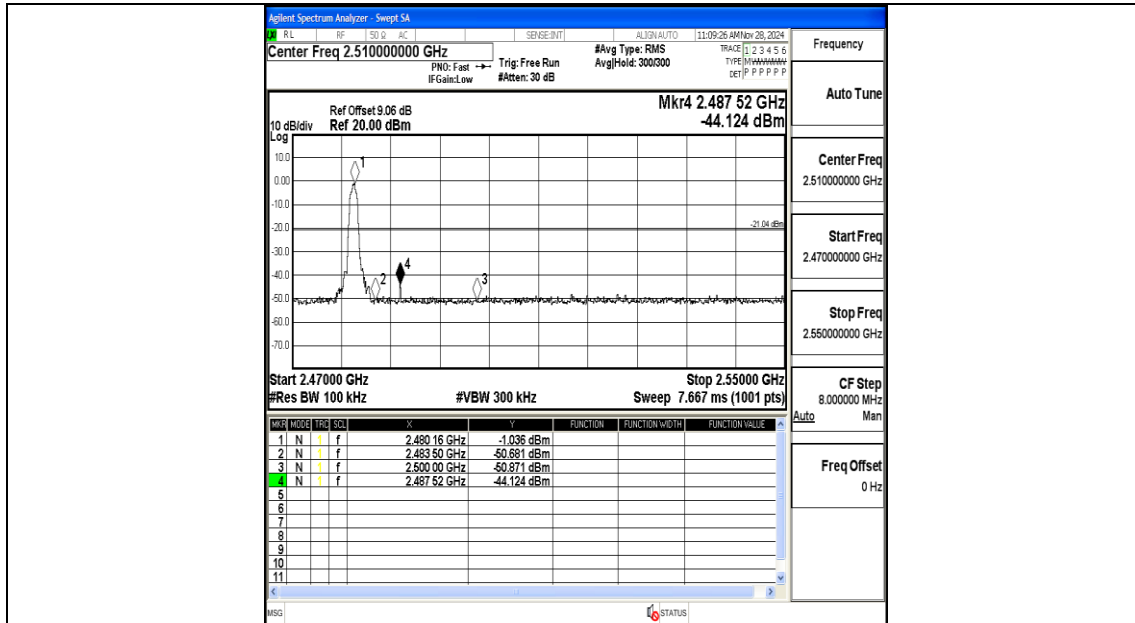
DH5-Ant1-Hop_2402-PASS



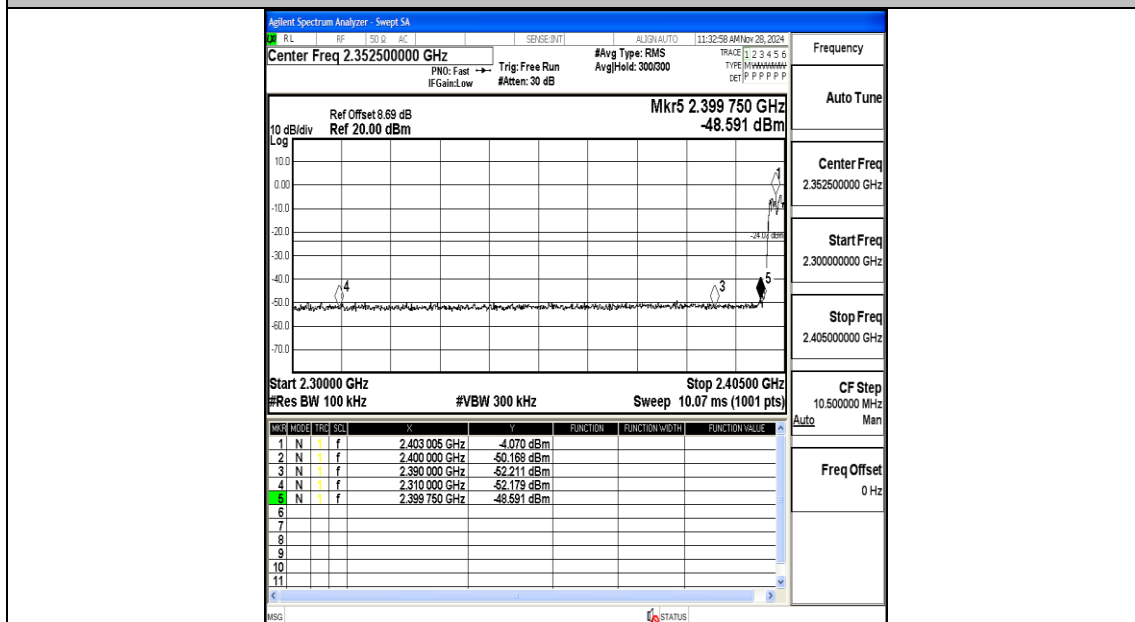
DH5-Ant1-Hop_2480-PASS



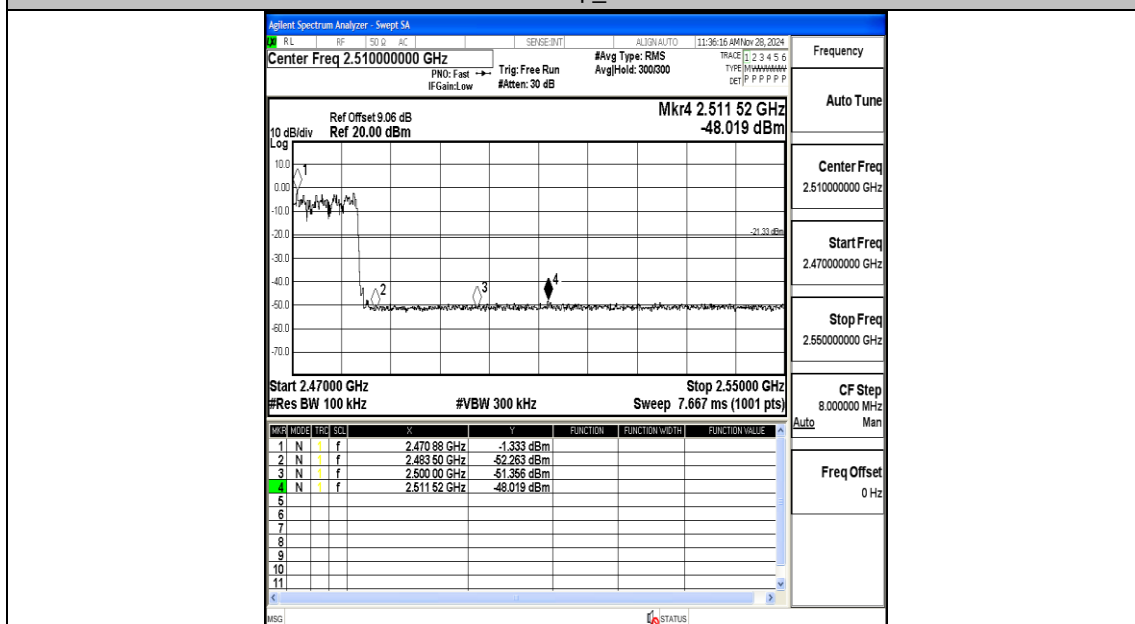
2DH5-Ant1-2402-PASS



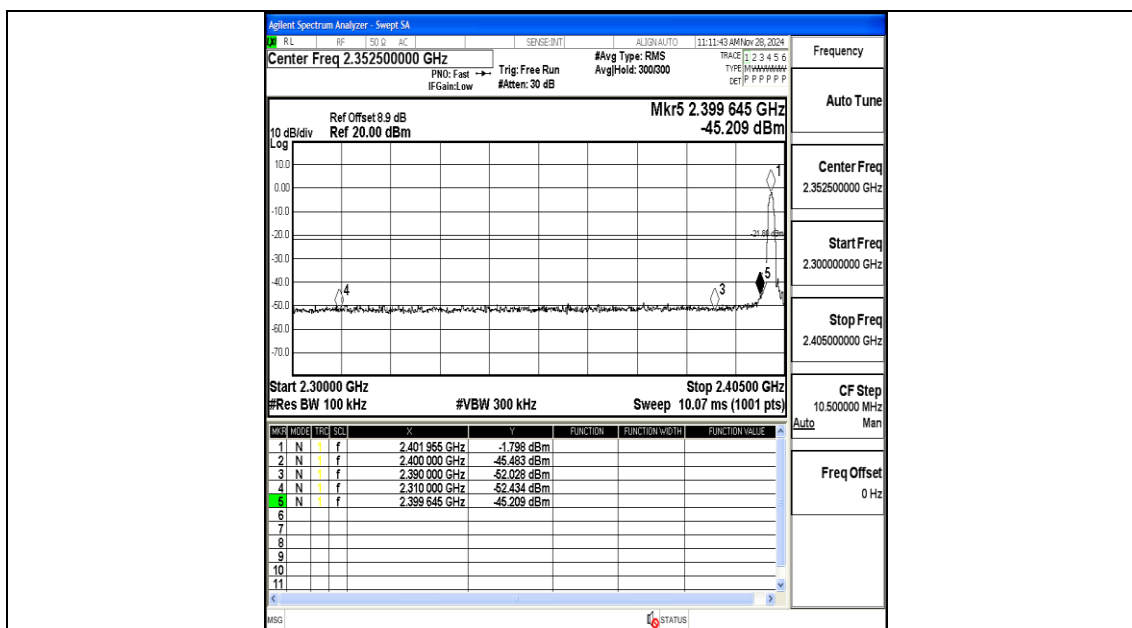
2DH5-Ant1-2480-PASS



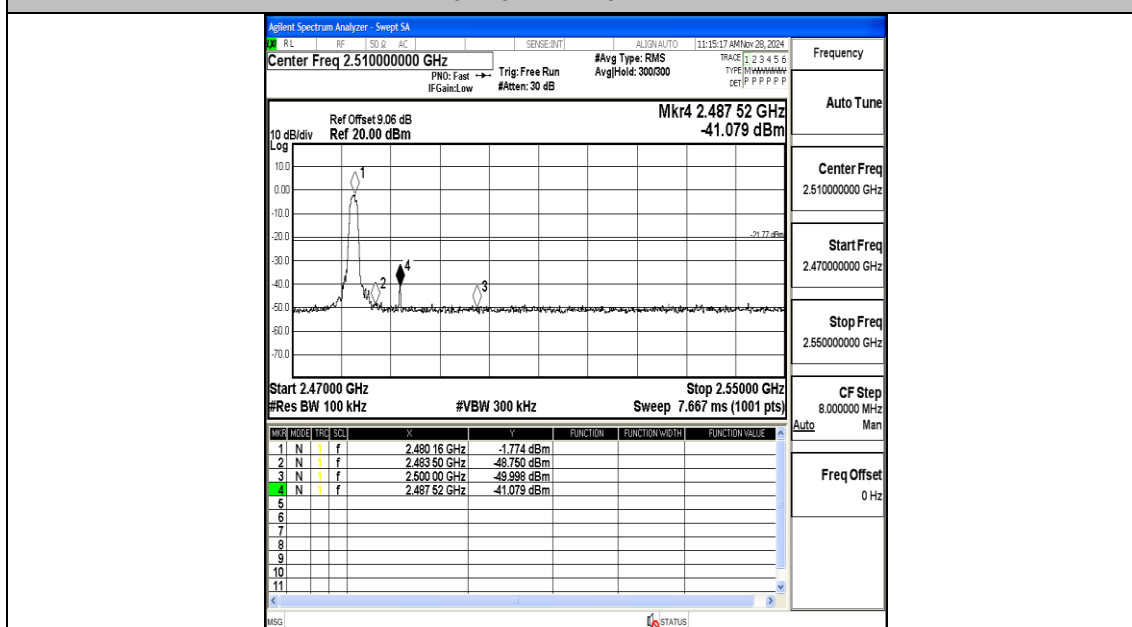
2DH5-Ant1-Hop_2402-PASS



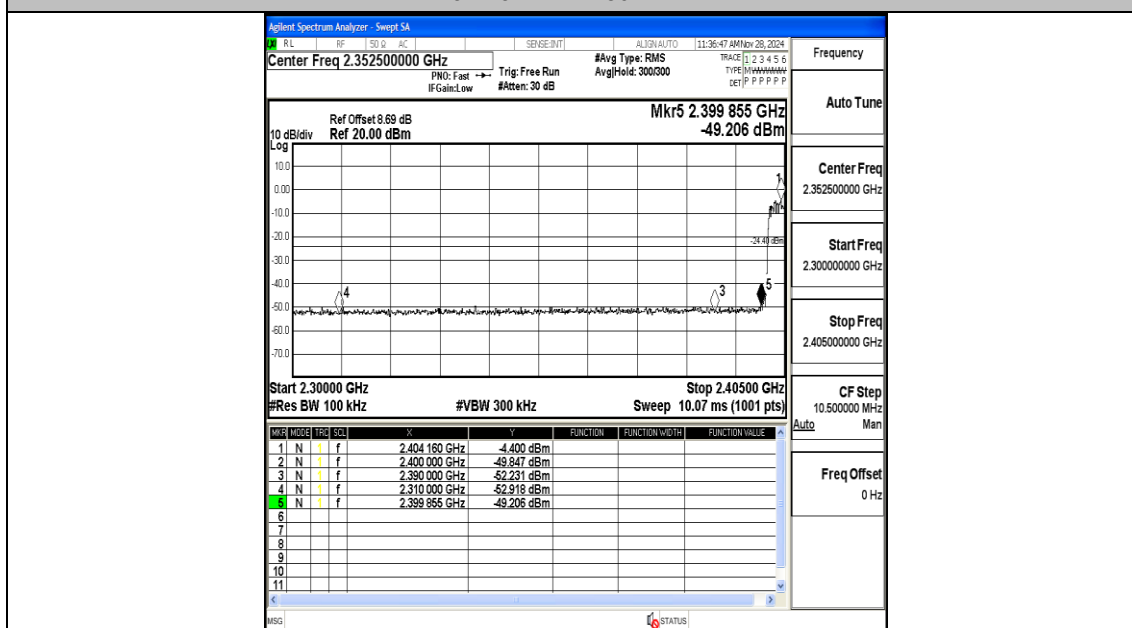
2DH5-Ant1-Hop_2480-PASS



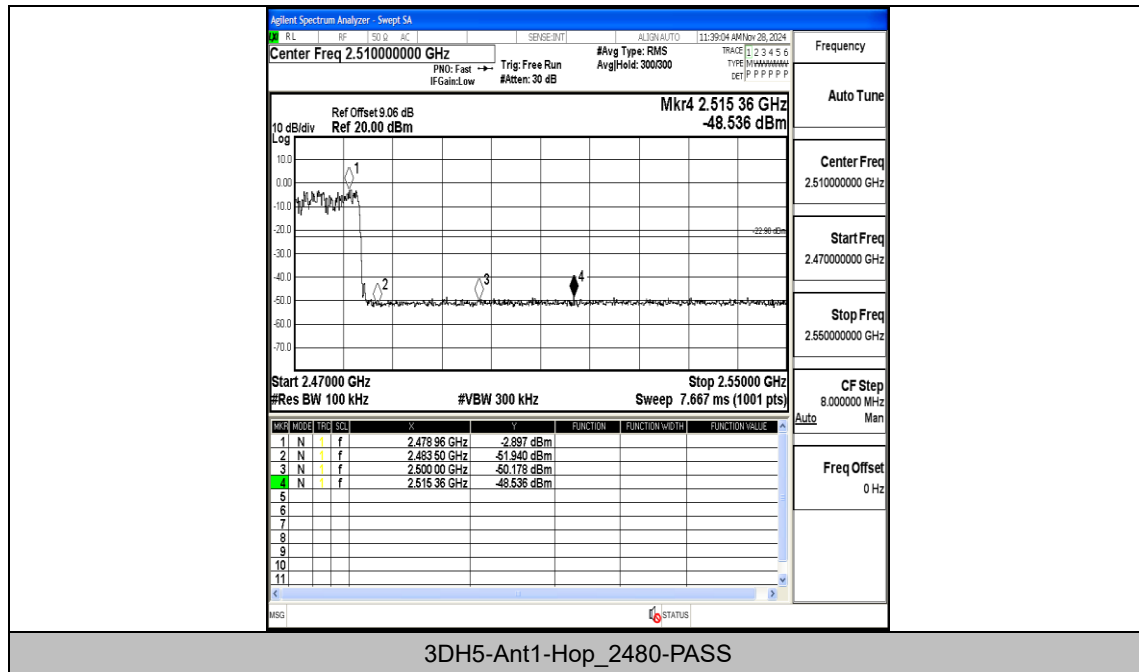
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS

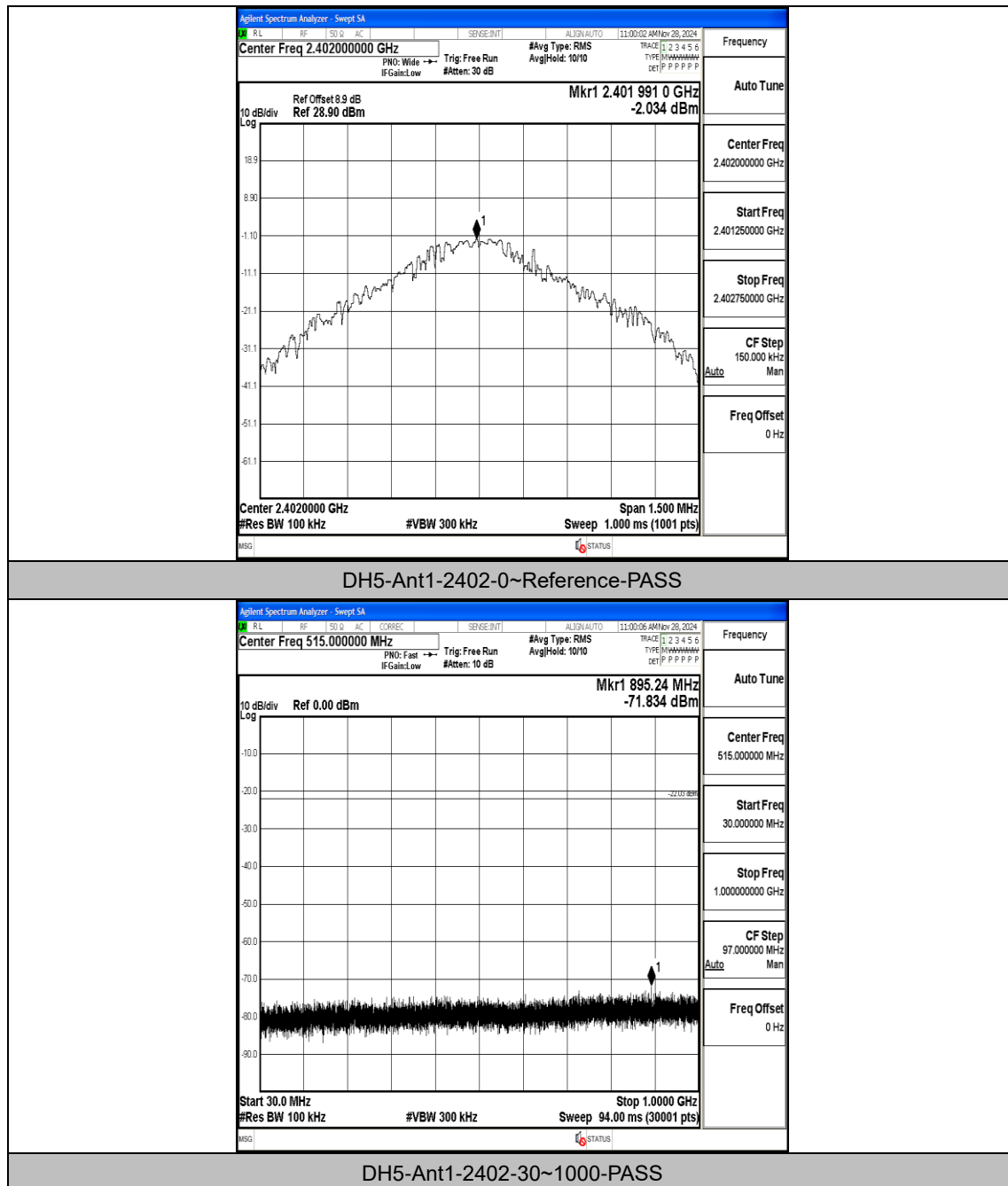


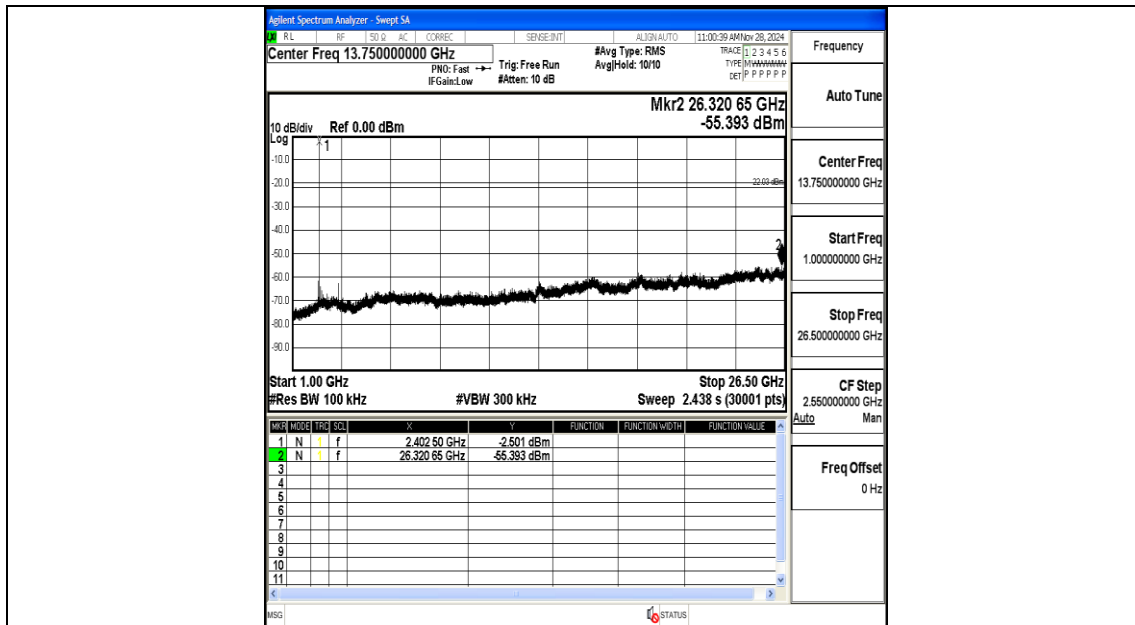
Appendix H: Conducted Spurious Emission

Test Result

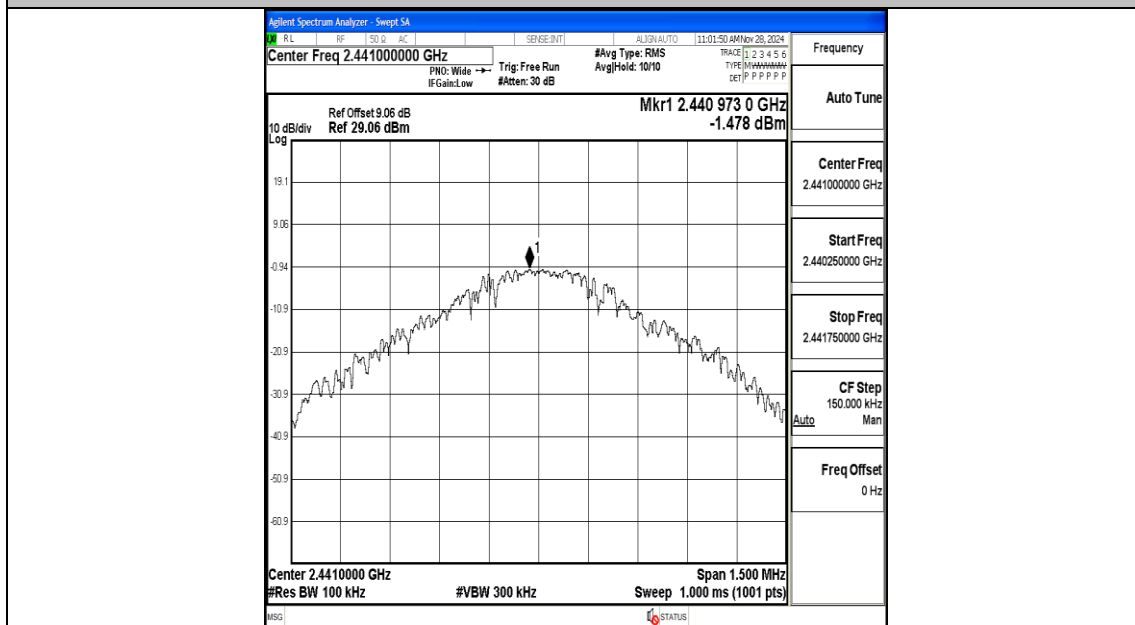
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.03	-2.03	---	PASS
DH5	Ant1	2402	30~1000	-2.03	-71.83	≤-22.03	PASS
DH5	Ant1	2402	1000~26500	-2.03	-55.39	≤-22.03	PASS
DH5	Ant1	2441	0~Reference	-1.48	-1.48	---	PASS
DH5	Ant1	2441	30~1000	-1.48	-72.81	≤-21.48	PASS
DH5	Ant1	2441	1000~26500	-1.48	-55.37	≤-21.48	PASS
DH5	Ant1	2480	0~Reference	-1.64	-1.64	---	PASS
DH5	Ant1	2480	30~1000	-1.64	-72.56	≤-21.64	PASS
DH5	Ant1	2480	1000~26500	-1.64	-54.3	≤-21.64	PASS
2DH5	Ant1	2402	0~Reference	-3.40	-3.40	---	PASS
2DH5	Ant1	2402	30~1000	-3.40	-72.76	≤-23.4	PASS
2DH5	Ant1	2402	1000~26500	-3.40	-54.94	≤-23.4	PASS
2DH5	Ant1	2441	0~Reference	-0.72	-0.72	---	PASS
2DH5	Ant1	2441	30~1000	-0.72	-72.92	≤-20.72	PASS
2DH5	Ant1	2441	1000~26500	-0.72	-55.14	≤-20.72	PASS
2DH5	Ant1	2480	0~Reference	-2.21	-2.21	---	PASS
2DH5	Ant1	2480	30~1000	-2.21	-72.41	≤-22.21	PASS
2DH5	Ant1	2480	1000~26500	-2.21	-54.68	≤-22.21	PASS
3DH5	Ant1	2402	0~Reference	-3.29	-3.29	---	PASS
3DH5	Ant1	2402	30~1000	-3.29	-72.99	≤-23.29	PASS
3DH5	Ant1	2402	1000~26500	-3.29	-55.11	≤-23.29	PASS
3DH5	Ant1	2441	0~Reference	-3.37	-3.37	---	PASS
3DH5	Ant1	2441	30~1000	-3.37	-72.24	≤-23.37	PASS
3DH5	Ant1	2441	1000~26500	-3.37	-54.97	≤-23.37	PASS
3DH5	Ant1	2480	0~Reference	-3.01	-3.01	---	PASS
3DH5	Ant1	2480	30~1000	-3.01	-72.99	≤-23.01	PASS
3DH5	Ant1	2480	1000~26500	-3.01	-55.53	≤-23.01	PASS

Test Graphs

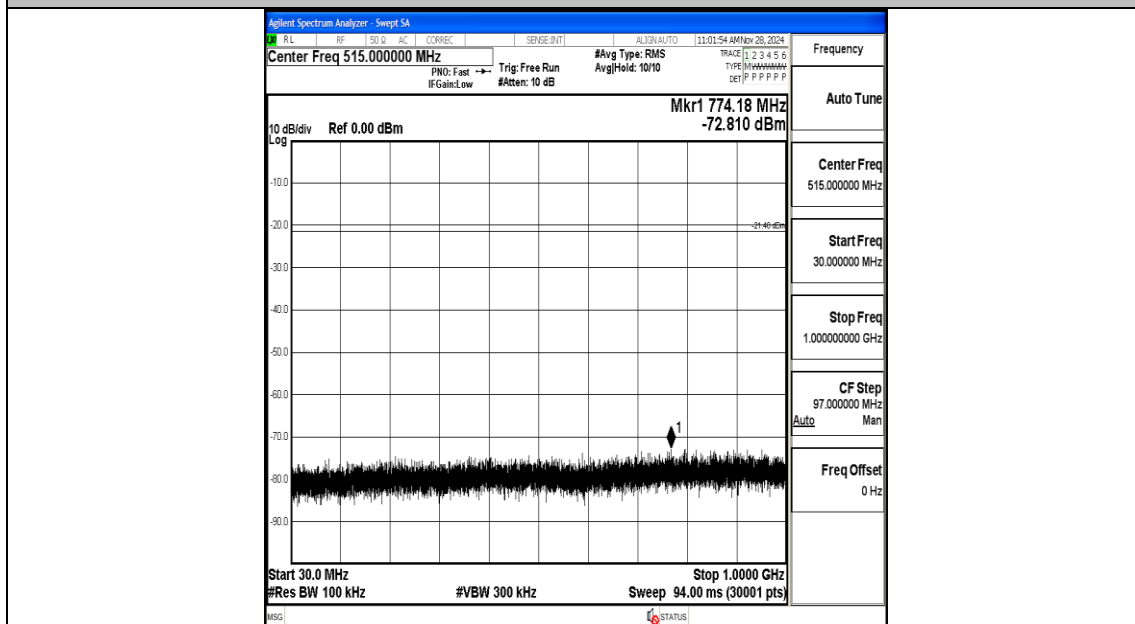




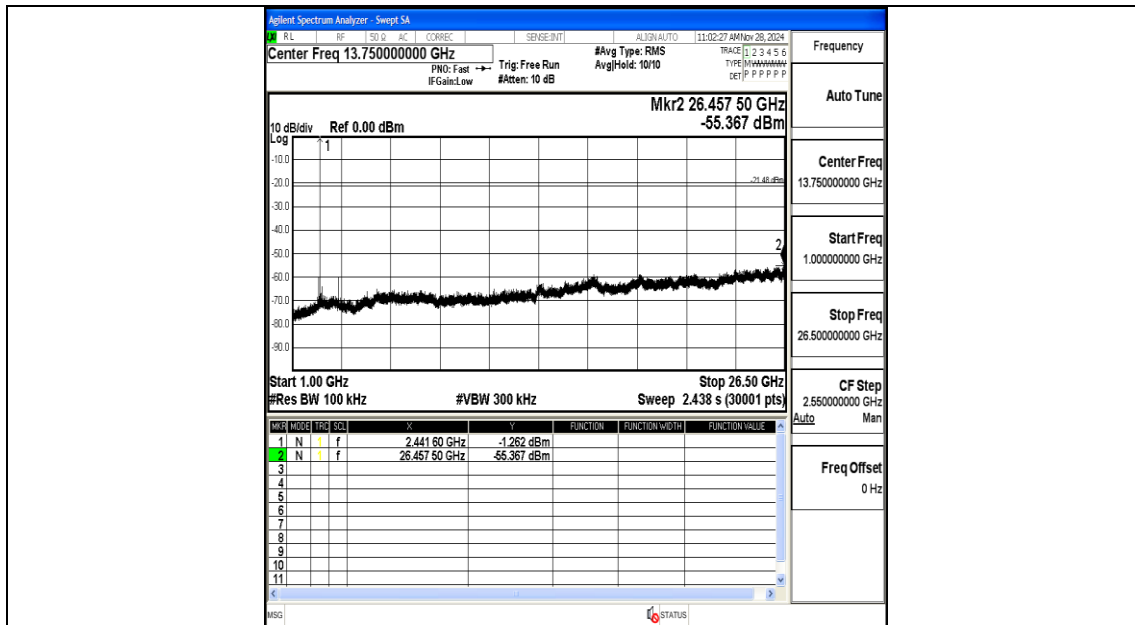
DH5-Ant1-2402-1000~26500-PASS



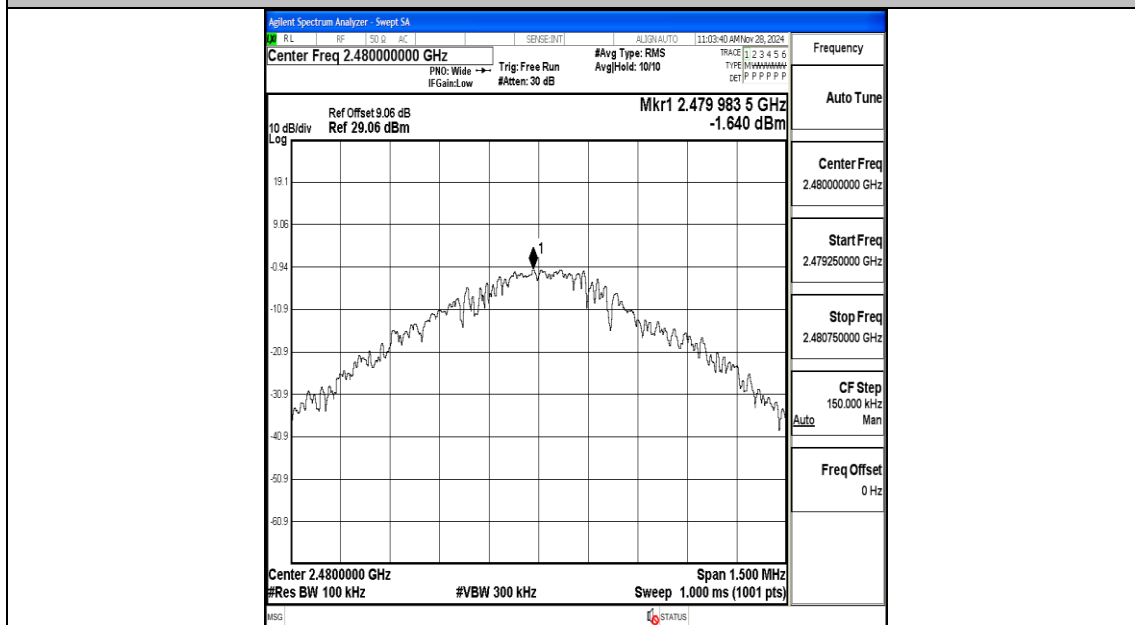
DH5-Ant1-2441-0~Reference-PASS



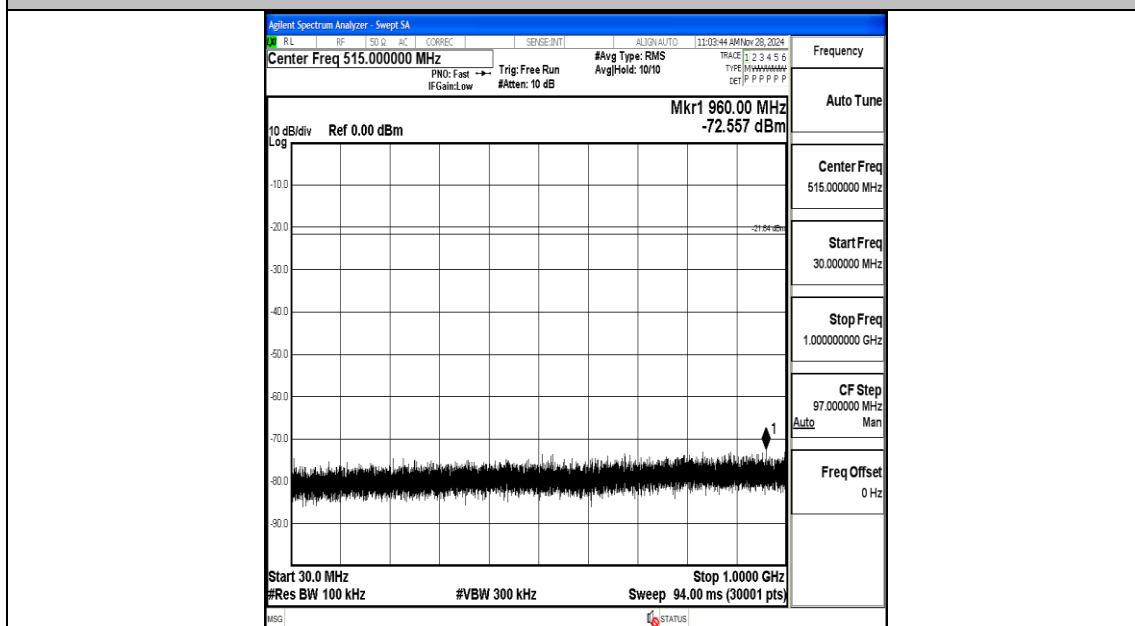
DH5-Ant1-2441-30~1000-PASS



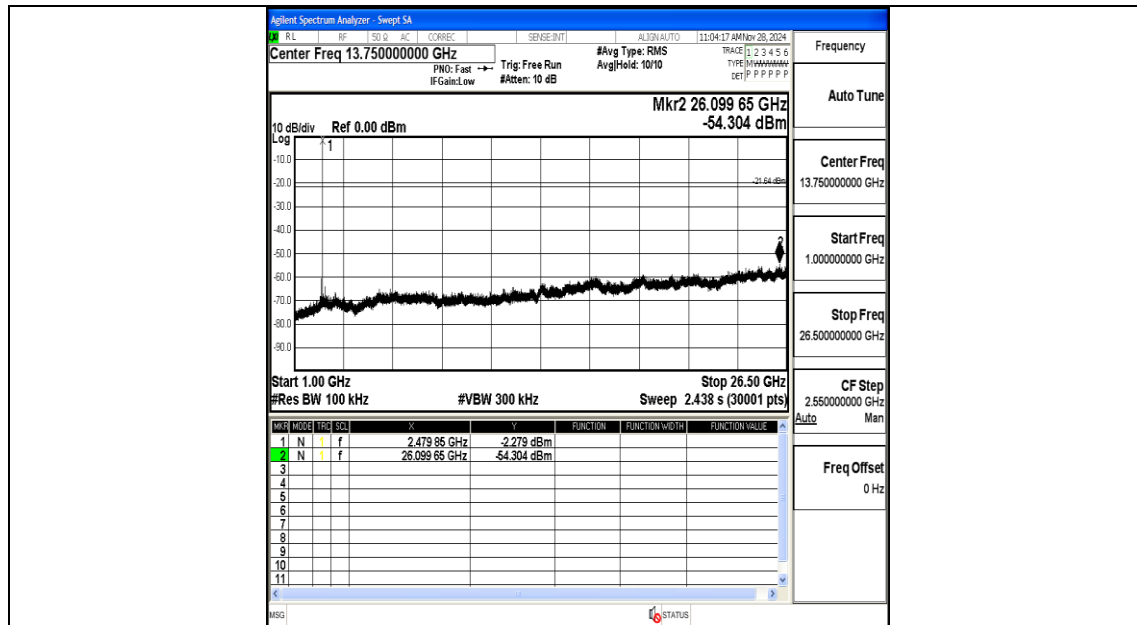
DH5-Ant1-2441-1000~26500-PASS



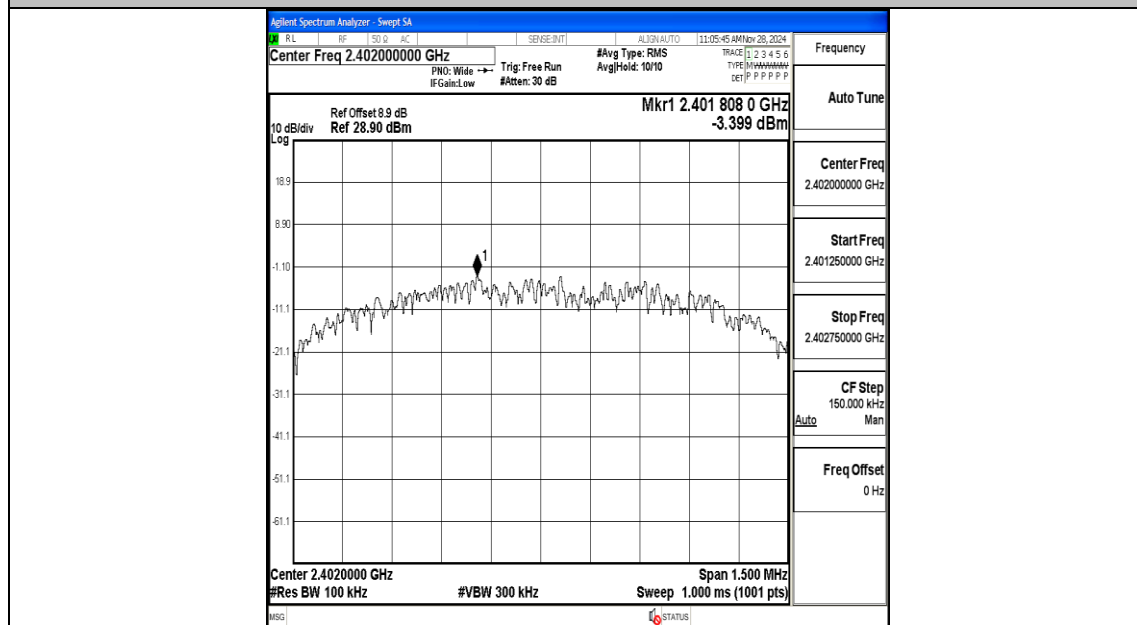
DH5-Ant1-2480-0~Reference-PASS



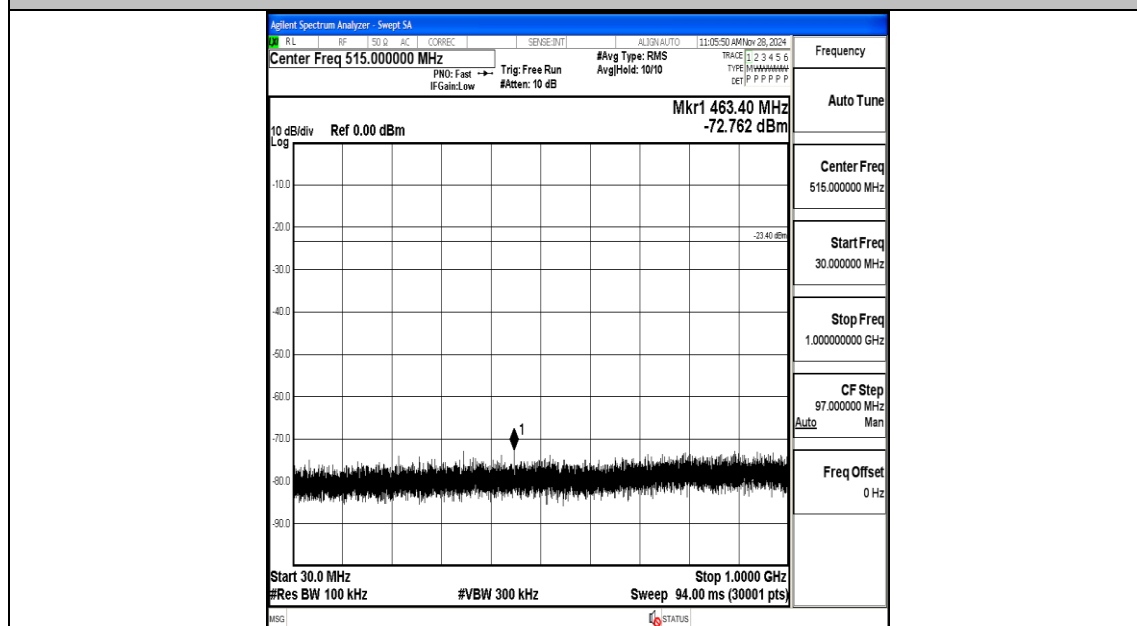
DH5-Ant1-2480-30~1000-PASS



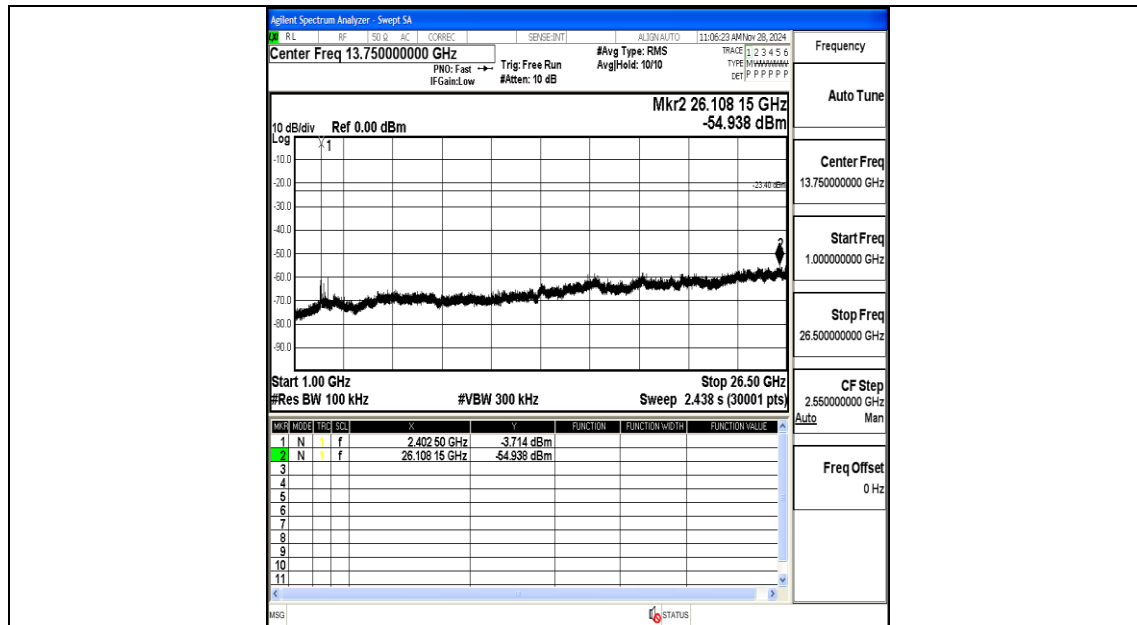
DH5-Ant1-2480-1000~26500-PASS



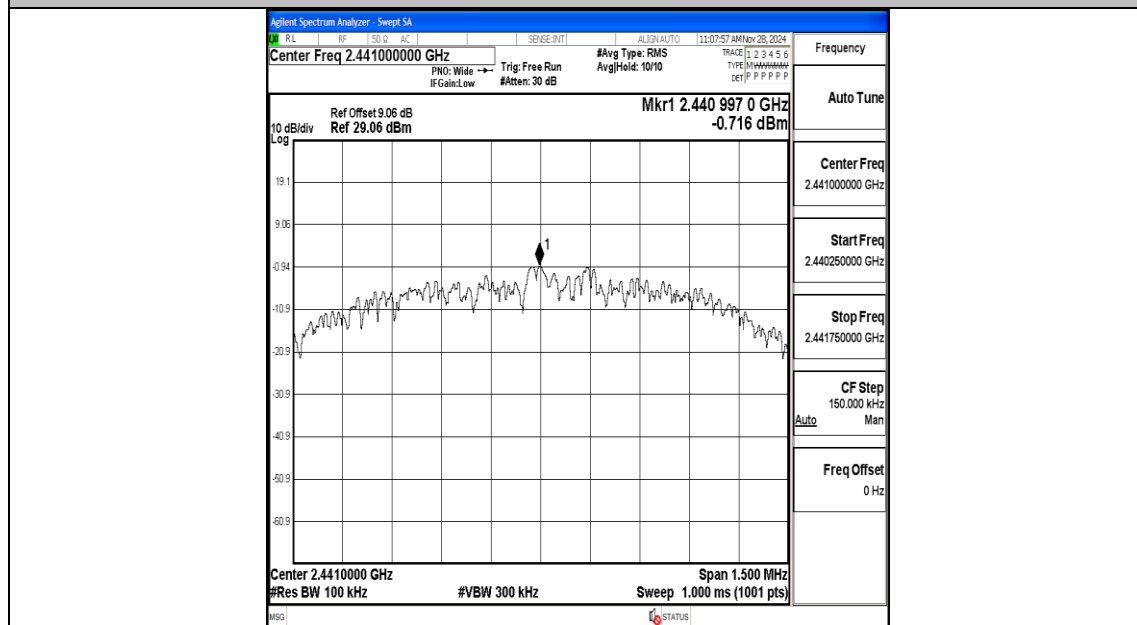
2DH5-Ant1-2402-0~Reference-PASS



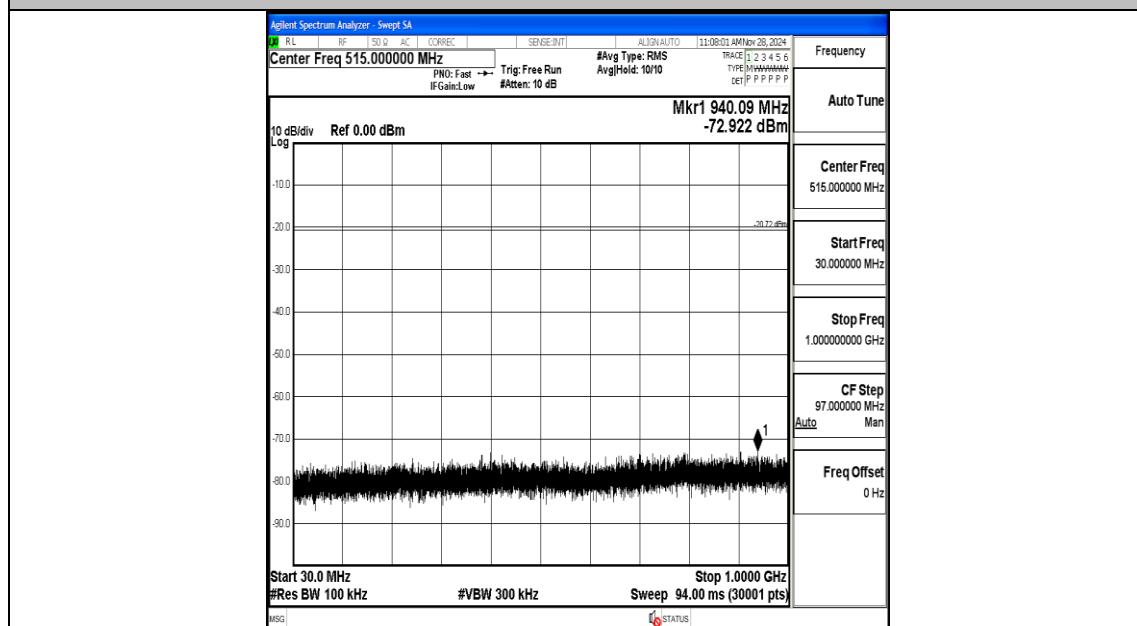
2DH5-Ant1-2402-30~1000-PASS



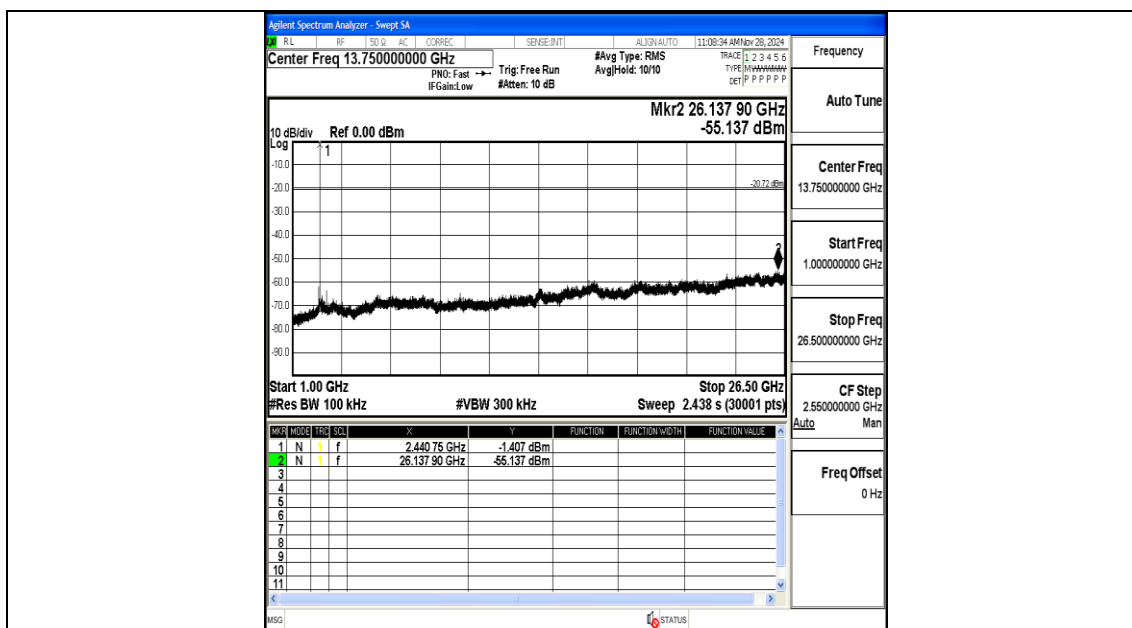
2DH5-Ant1-2402-1000~26500-PASS



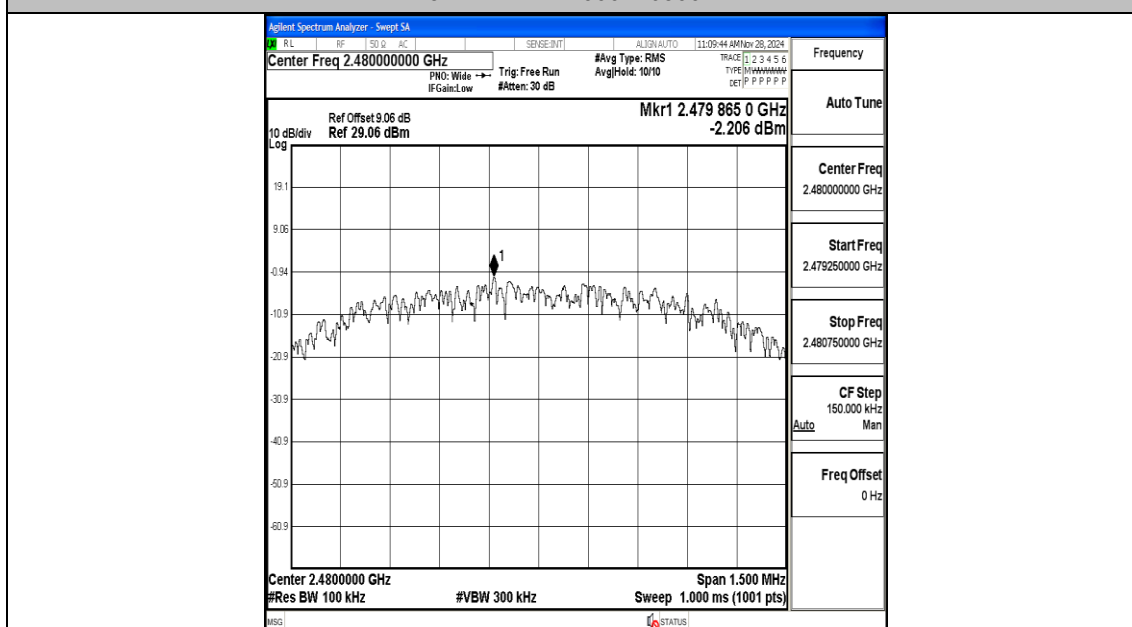
2DH5-Ant1-2441-0~Reference-PASS



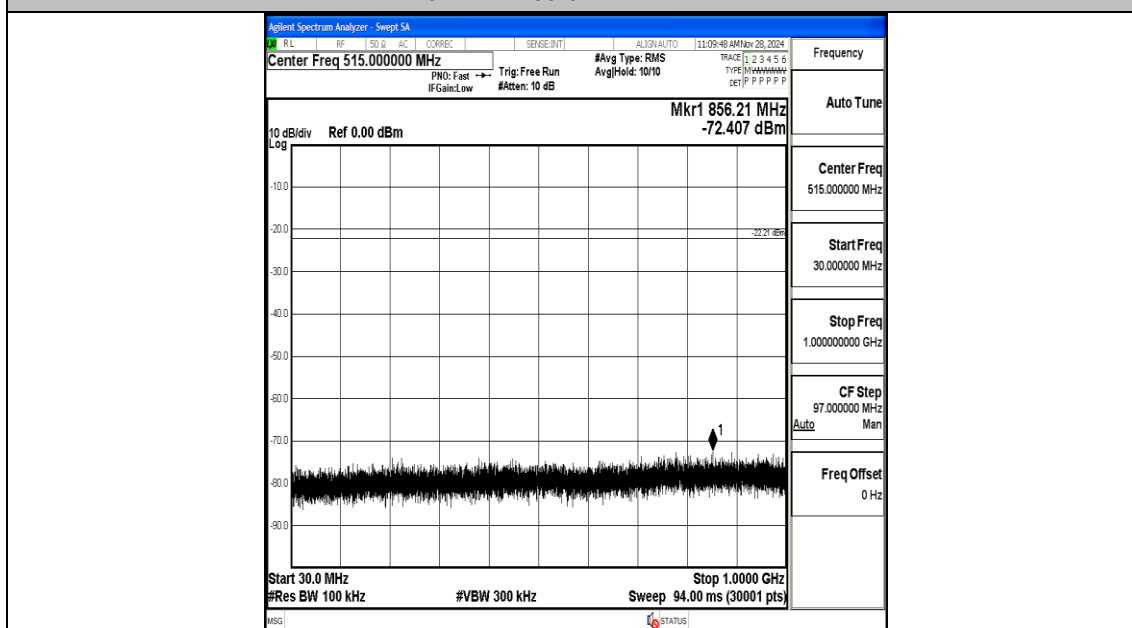
2DH5-Ant1-2441-30~1000-PASS



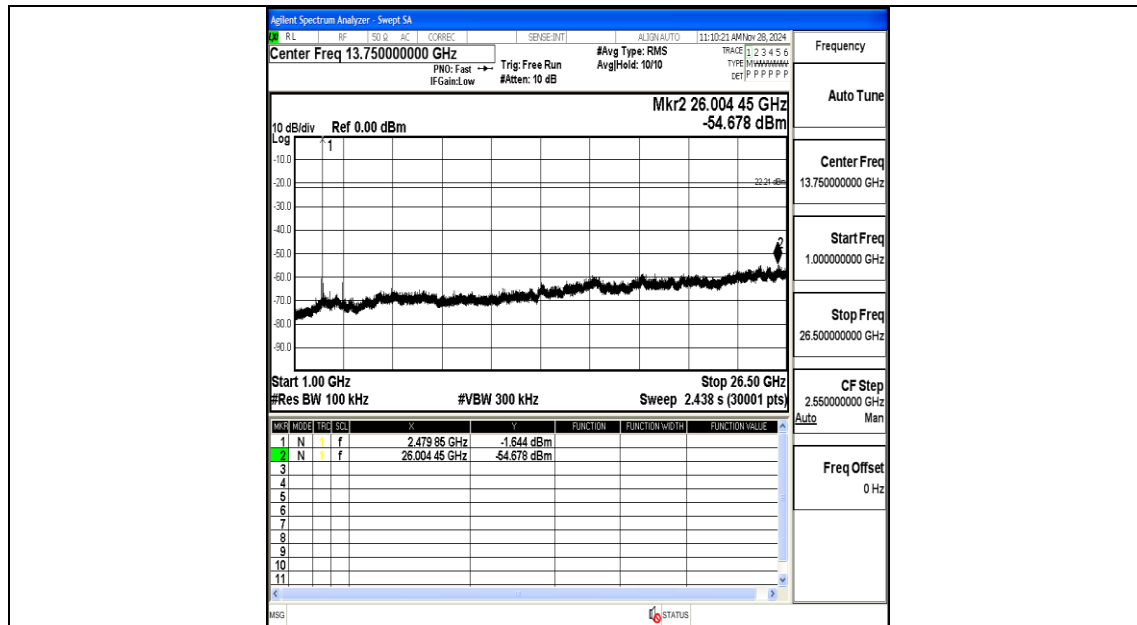
2DH5-Ant1-2441-1000~26500-PASS



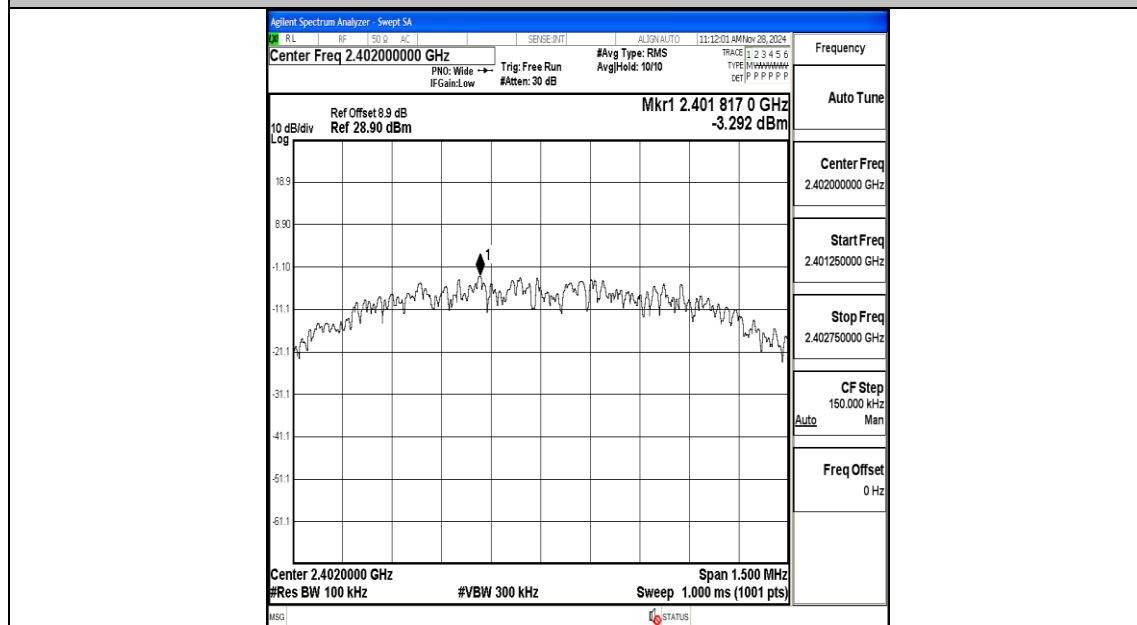
2DH5-Ant1-2480-0~Reference-PASS



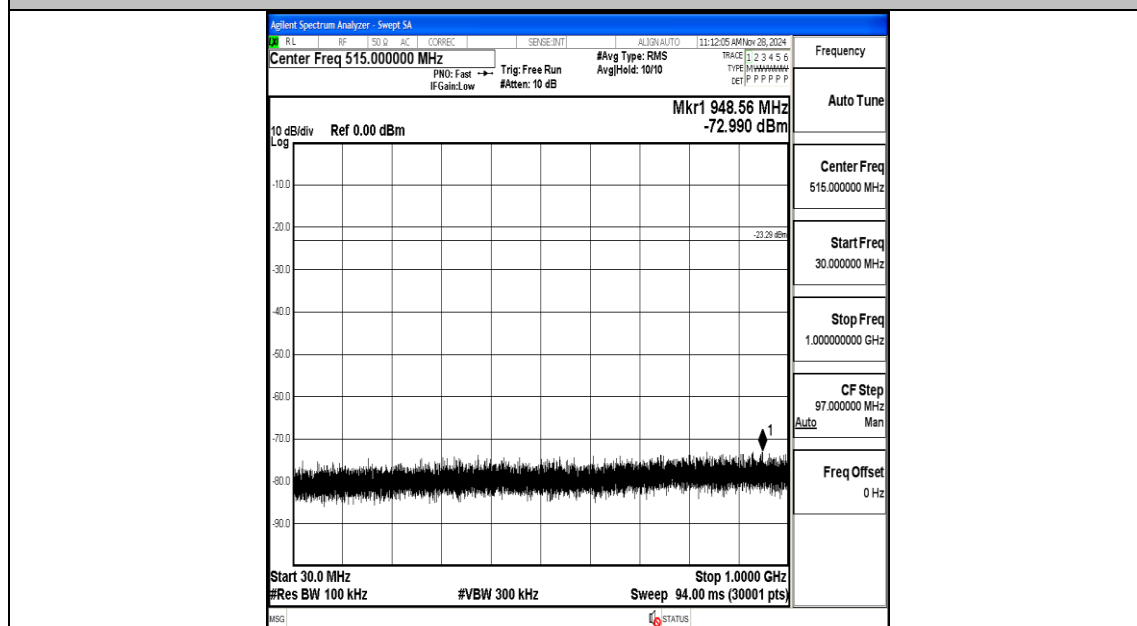
2DH5-Ant1-2480-30~1000-PASS



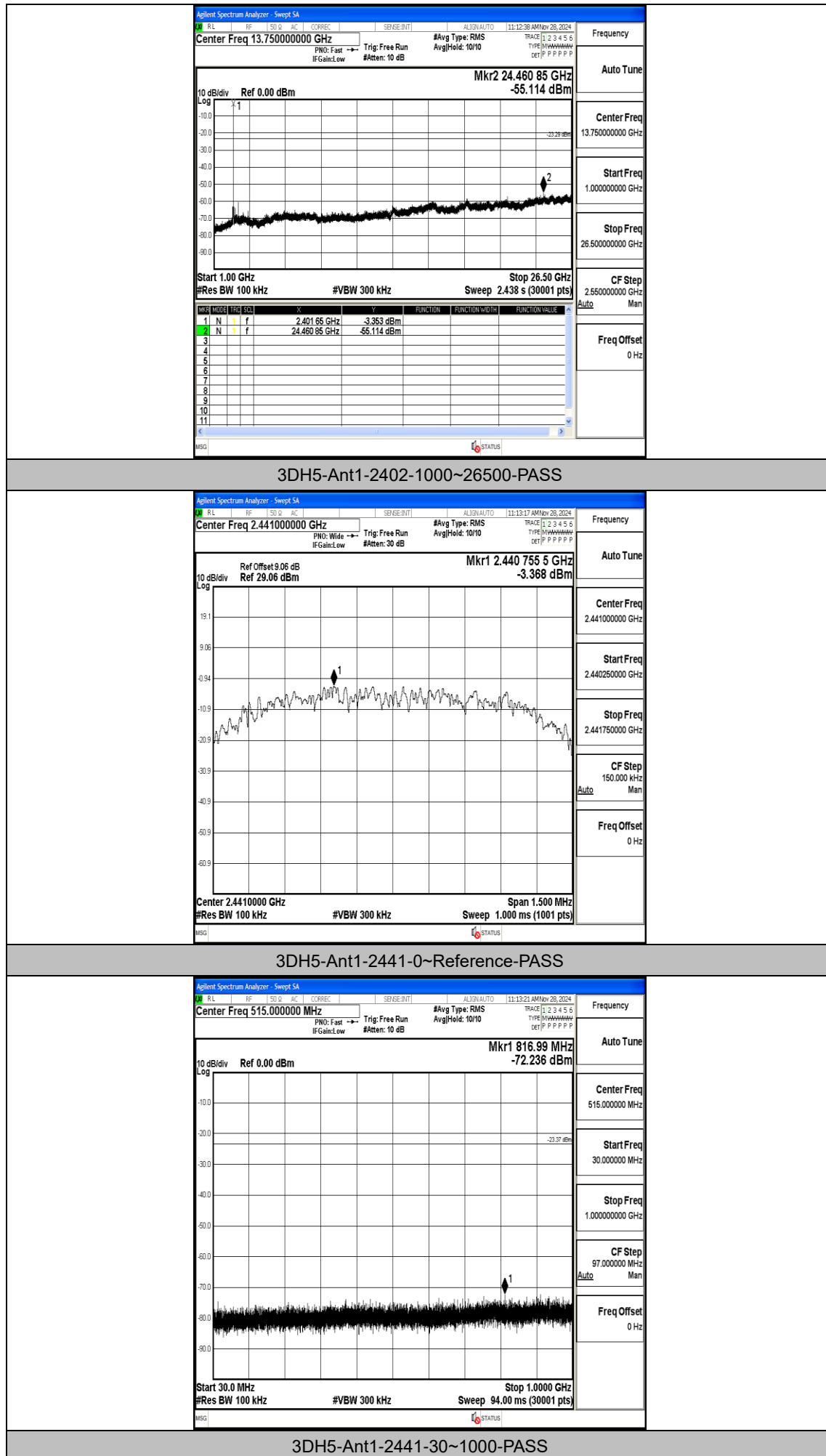
2DH5-Ant1-2480-1000~26500-PASS

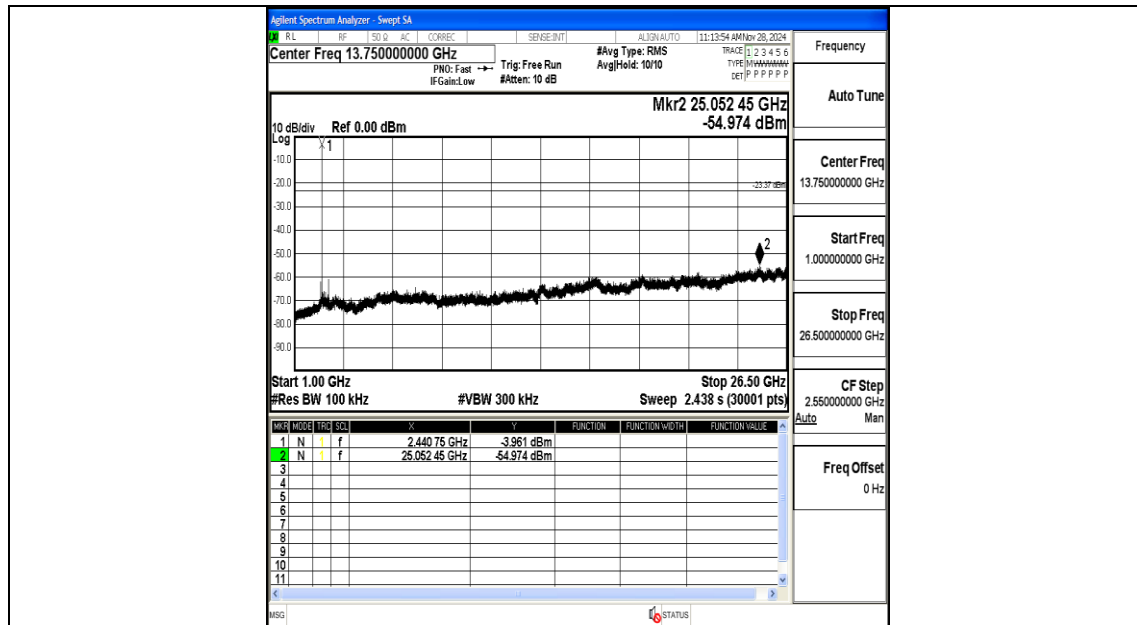


3DH5-Ant1-2402-0~Reference-PASS

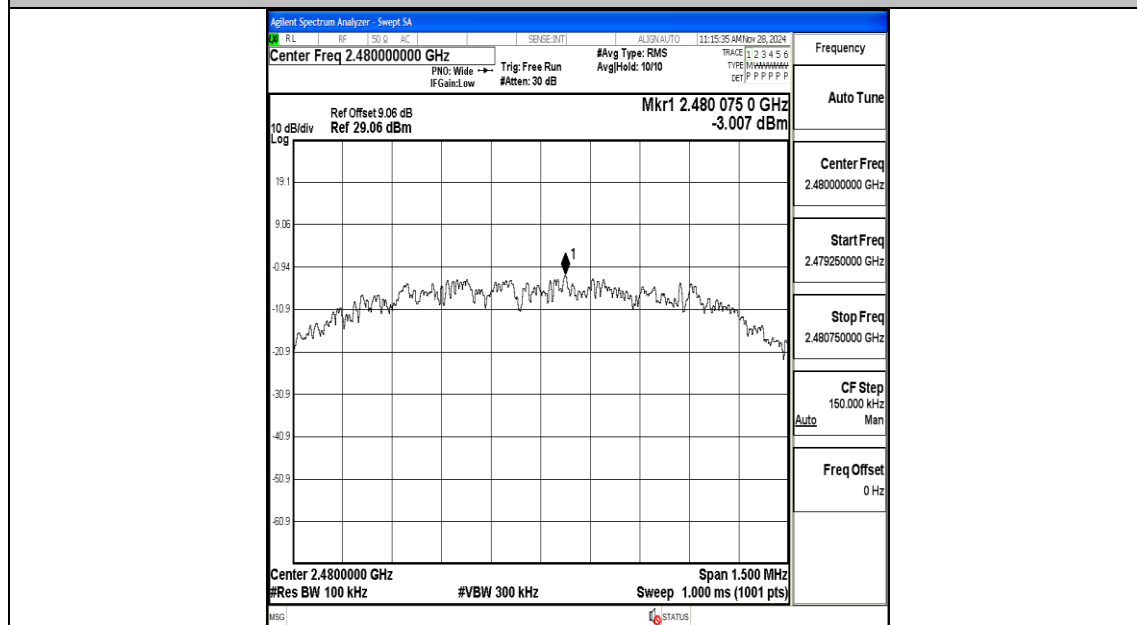


3DH5-Ant1-2402-30~1000-PASS

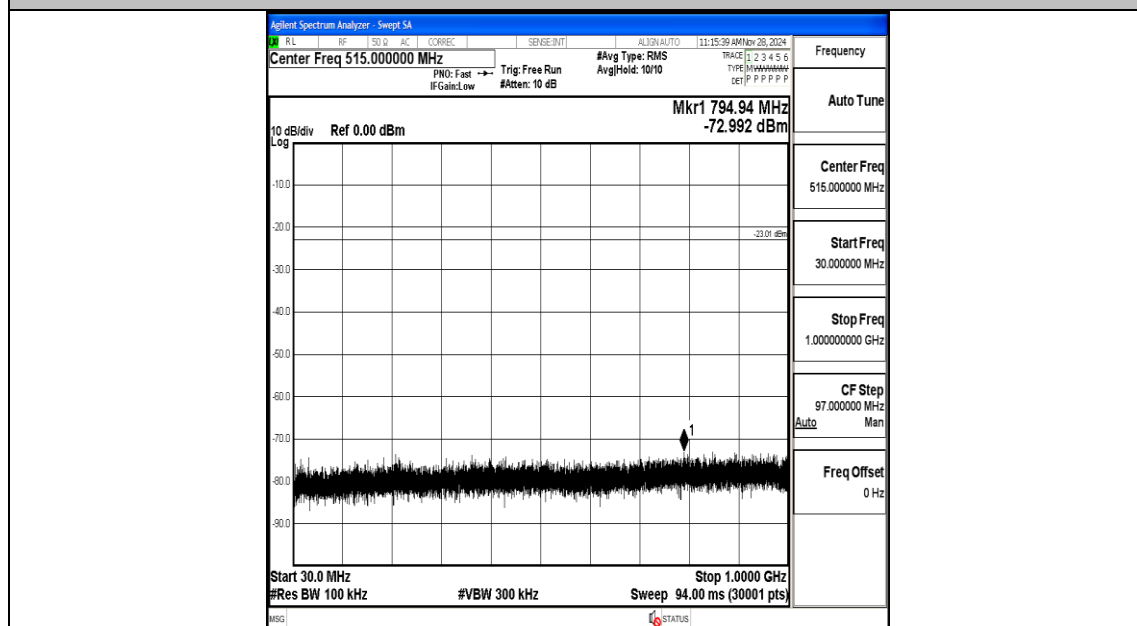




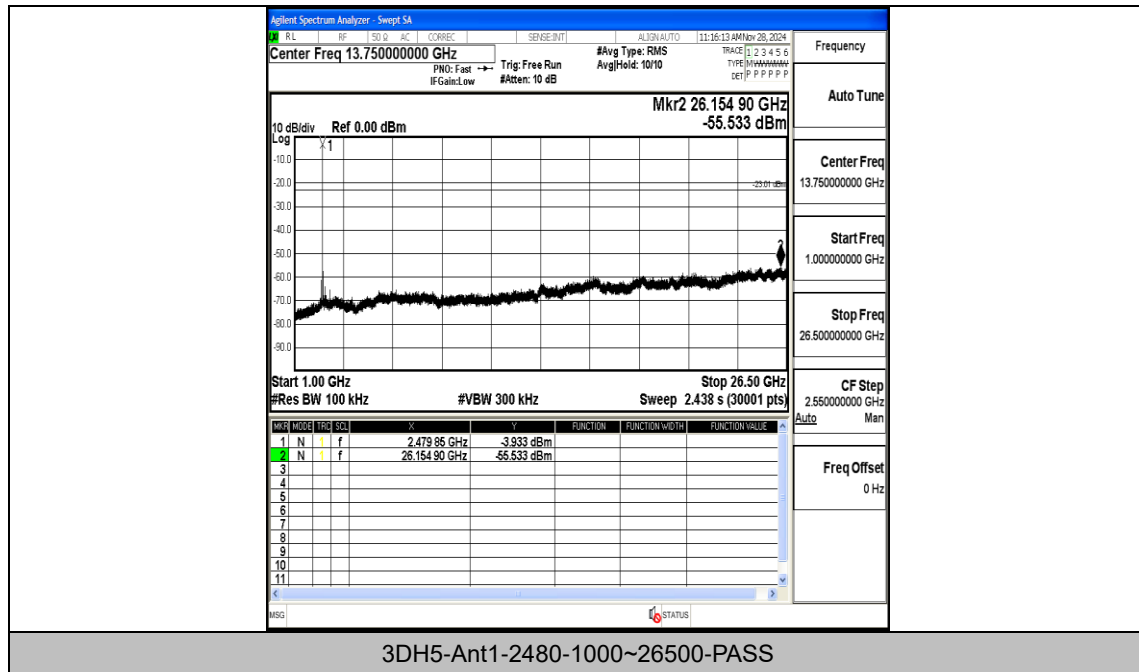
3DH5-Ant1-2441-1000~26500-PASS



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	2.88	3.75	76.80	1.15
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.88	3.75	76.80	1.15
2DH5	Ant1	2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.90	3.75	77.33	1.12
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

Test Graphs

