

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

Product Name: Wireless Receiver

Trade Mark: /

Test Model: AC139

FCC ID: 2BCRG-AC139

Environmental Conditions

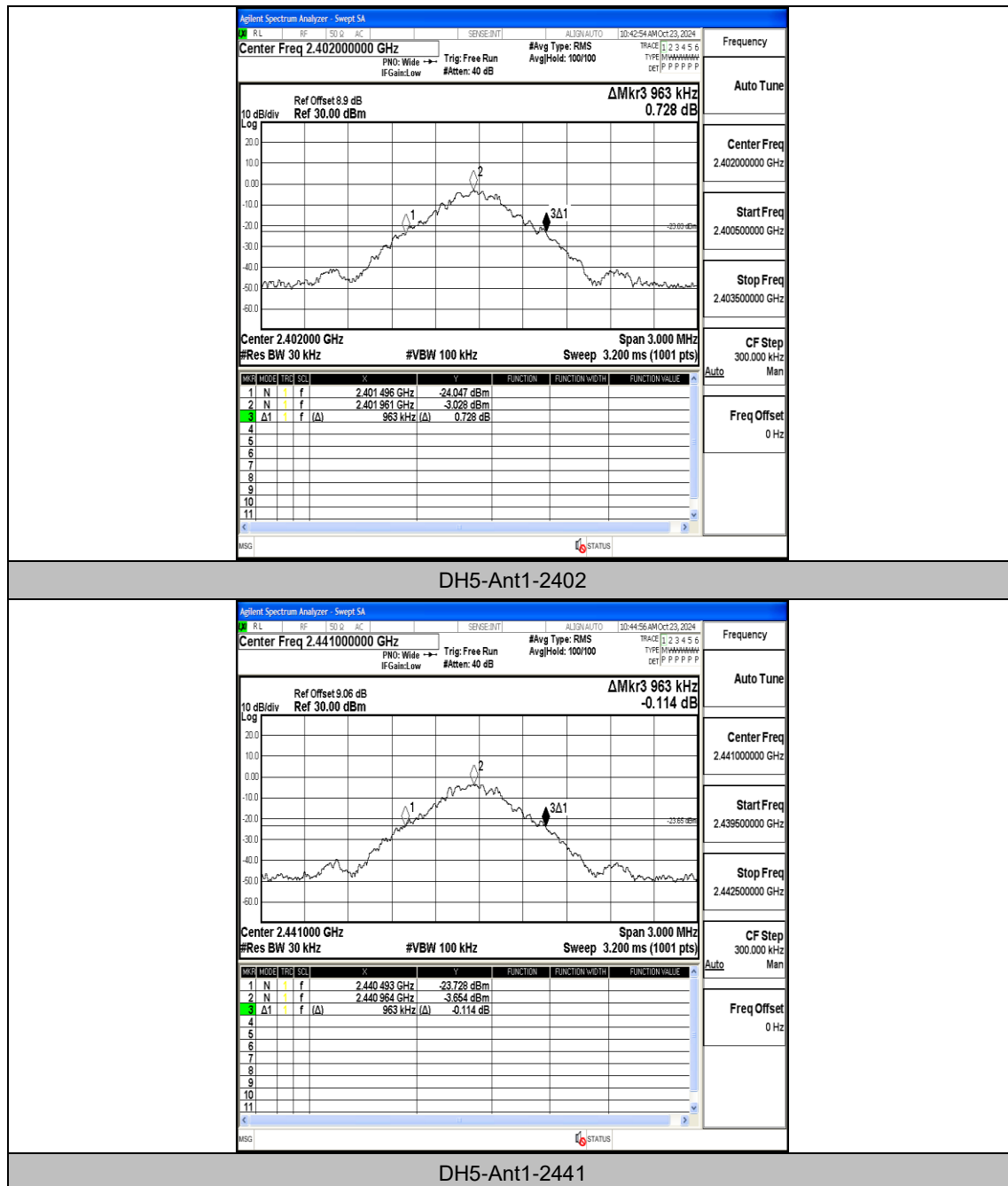
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

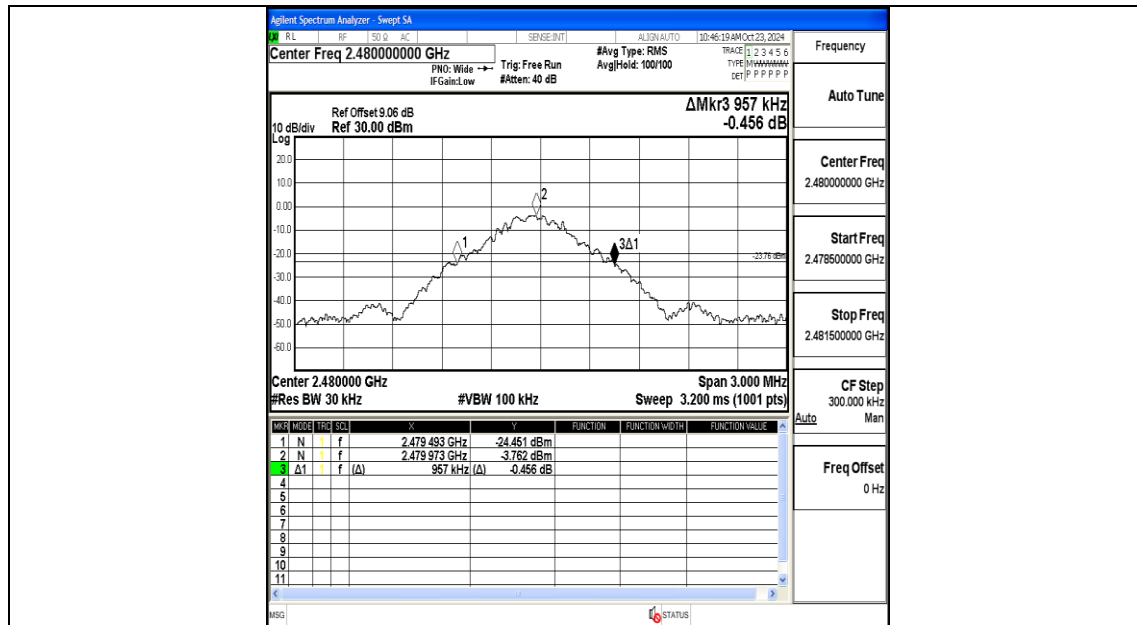
Appendix A: 20dB Emission Bandwidth

Test Result

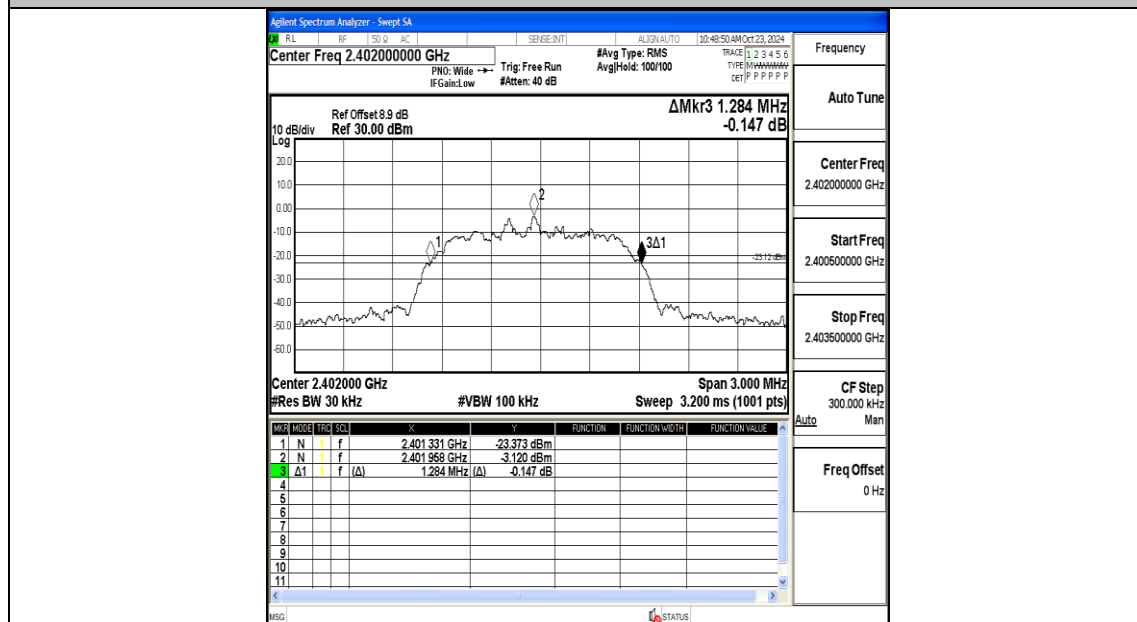
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.963	2401.496	2402.459	---	---
DH5	Ant1	2441	0.963	2440.493	2441.456	---	---
DH5	Ant1	2480	0.957	2479.493	2480.450	---	---
2DH5	Ant1	2402	1.284	2401.331	2402.615	---	---
2DH5	Ant1	2441	1.287	2440.328	2441.615	---	---
2DH5	Ant1	2480	1.287	2479.328	2480.615	---	---

Test Graphs

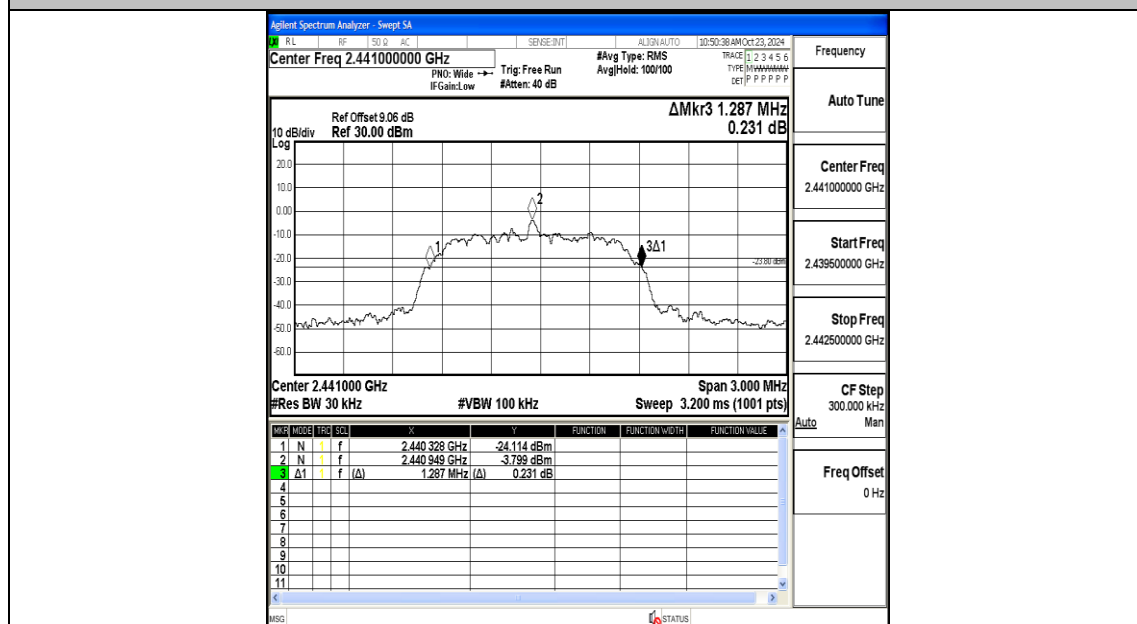




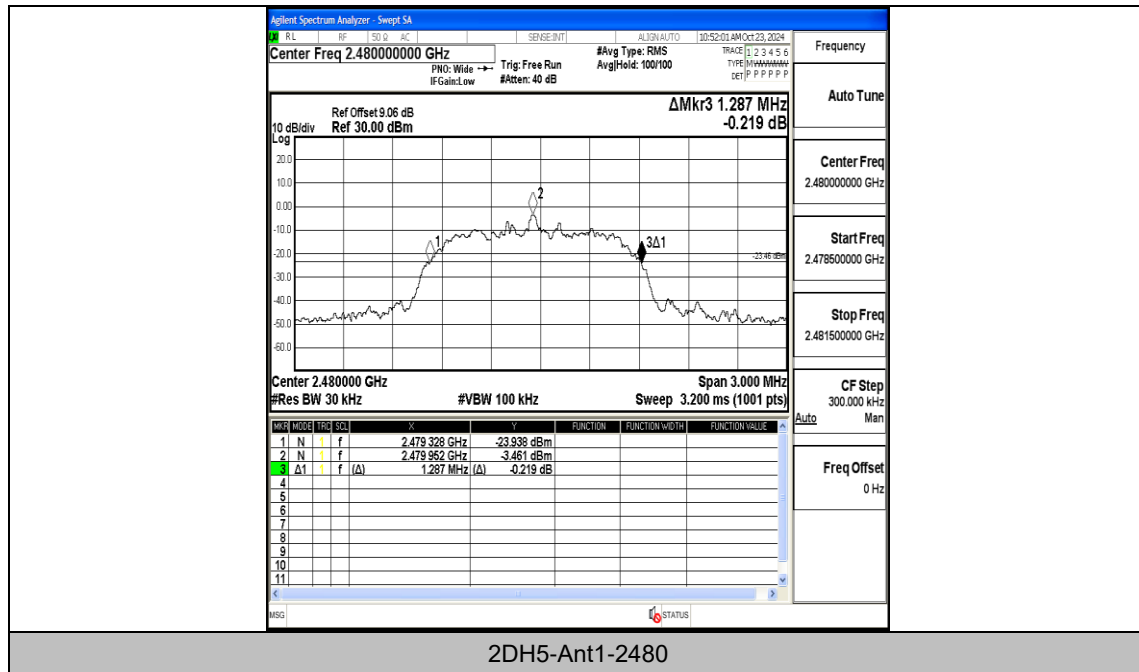
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

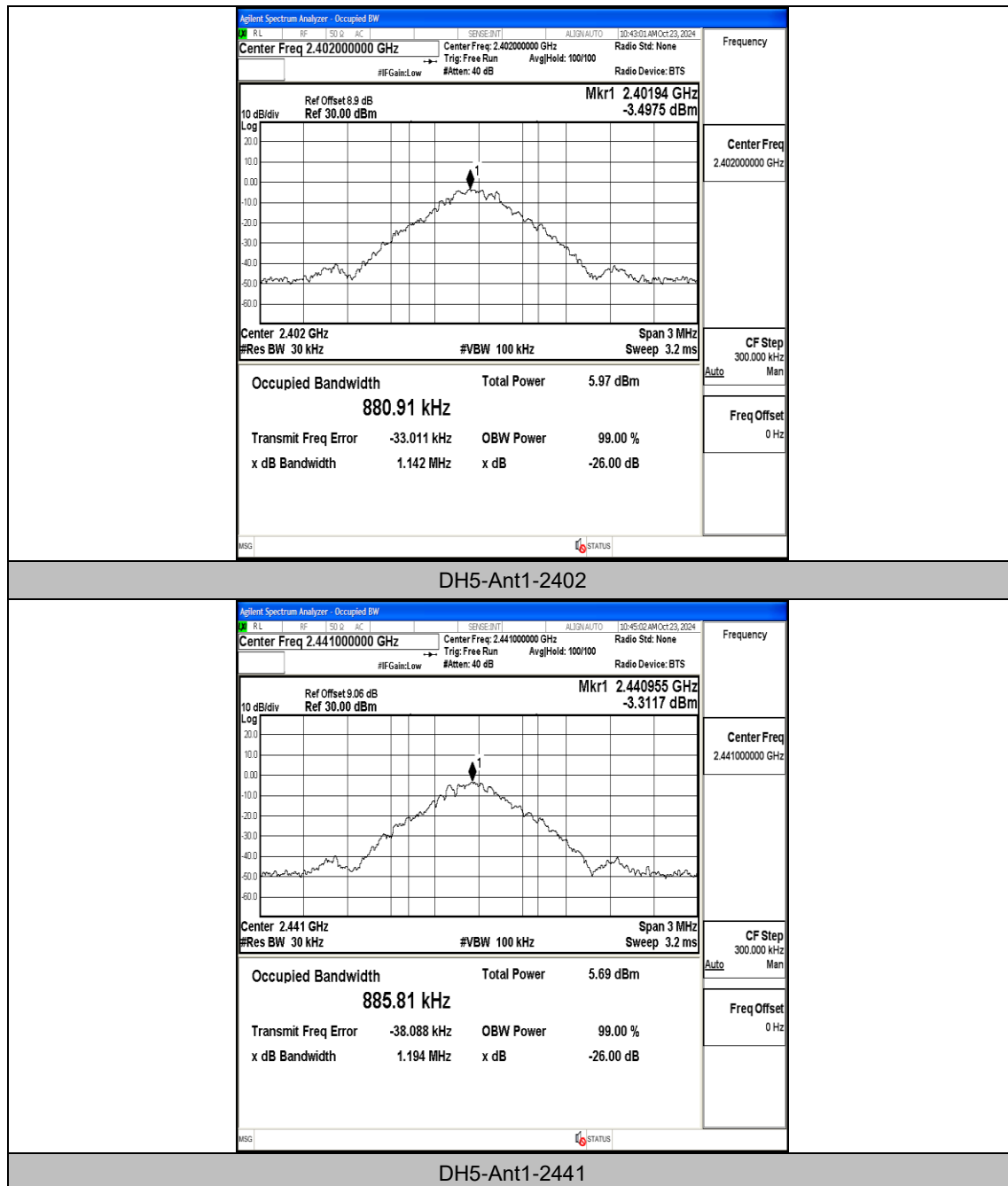


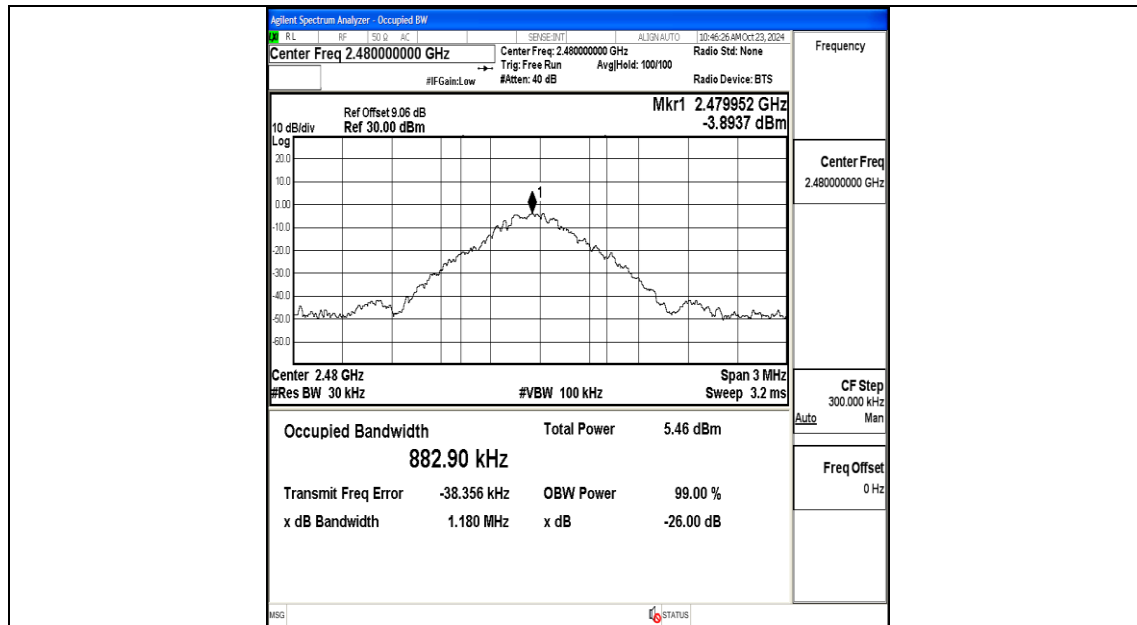
Appendix B: Occupied Channel Bandwidth

Test Result

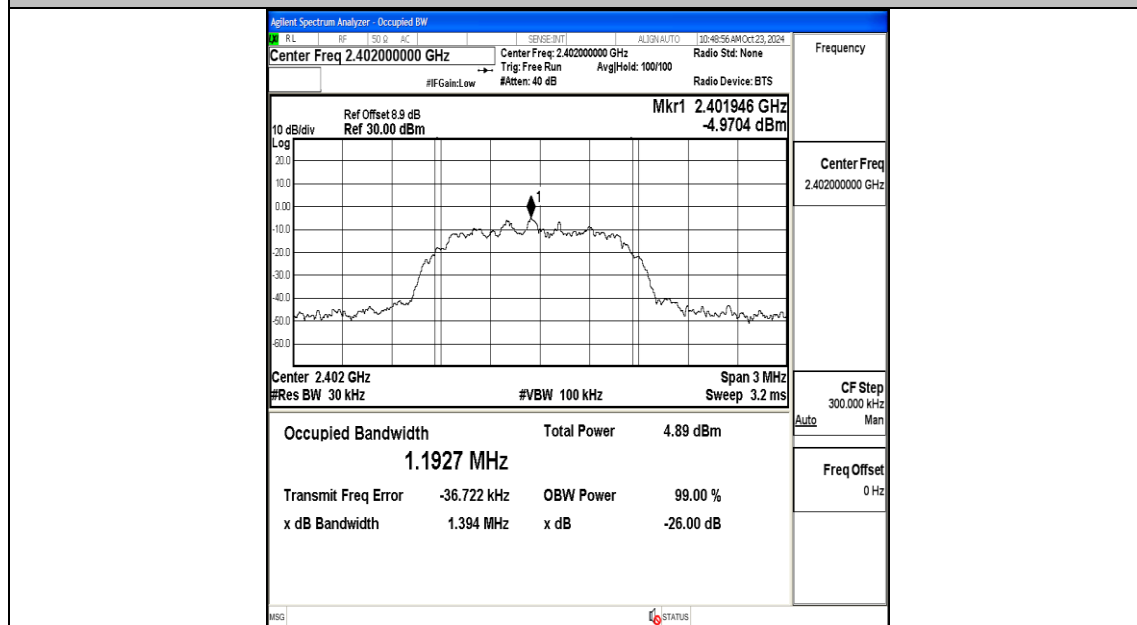
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.88091	2401.5265	2402.4074	---	---
DH5	Ant1	2441	0.88581	2440.5190	2441.4048	---	---
DH5	Ant1	2480	0.88290	2479.5202	2480.4031	---	---
2DH5	Ant1	2402	1.1927	2401.3669	2402.5596	---	---
2DH5	Ant1	2441	1.1936	2440.3671	2441.5607	---	---
2DH5	Ant1	2480	1.1991	2479.3604	2480.5595	---	---

Test Graphs

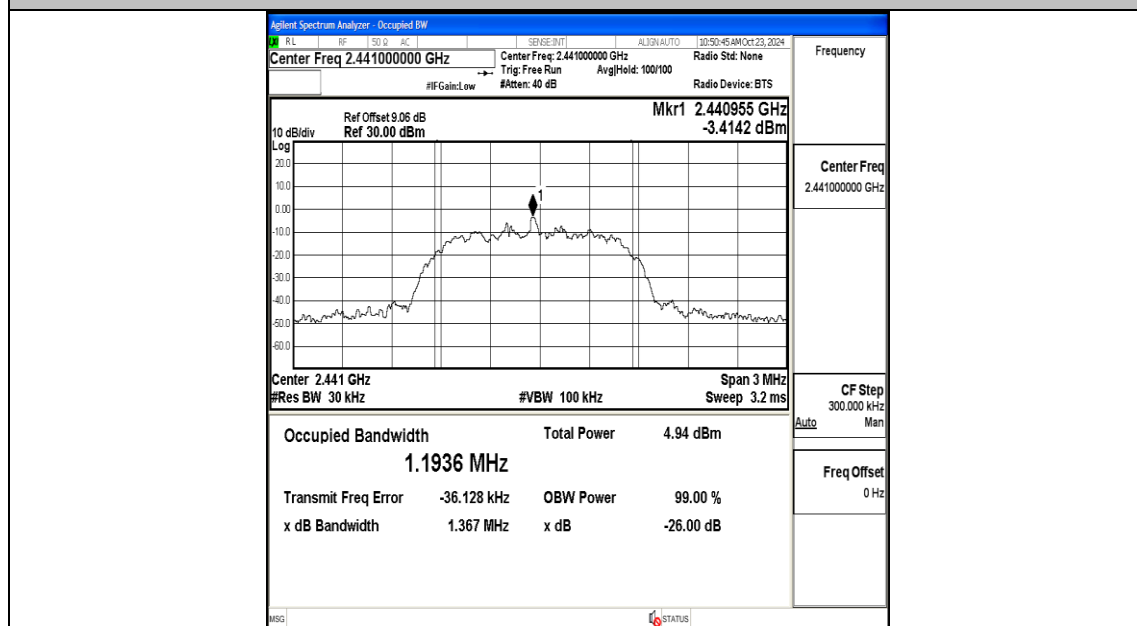




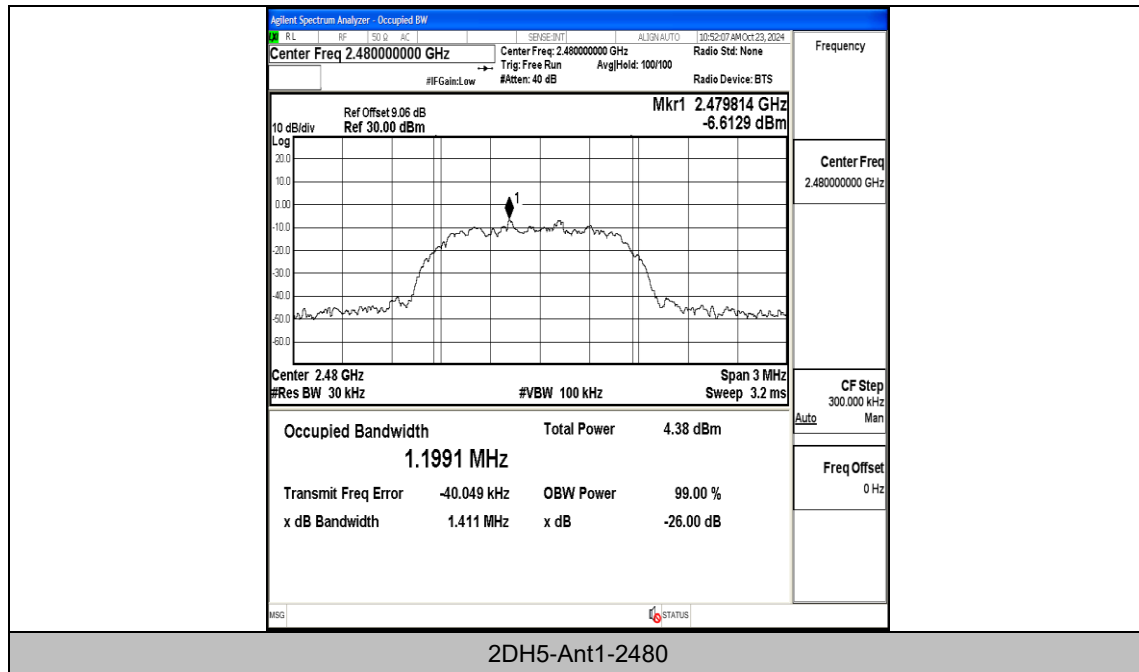
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

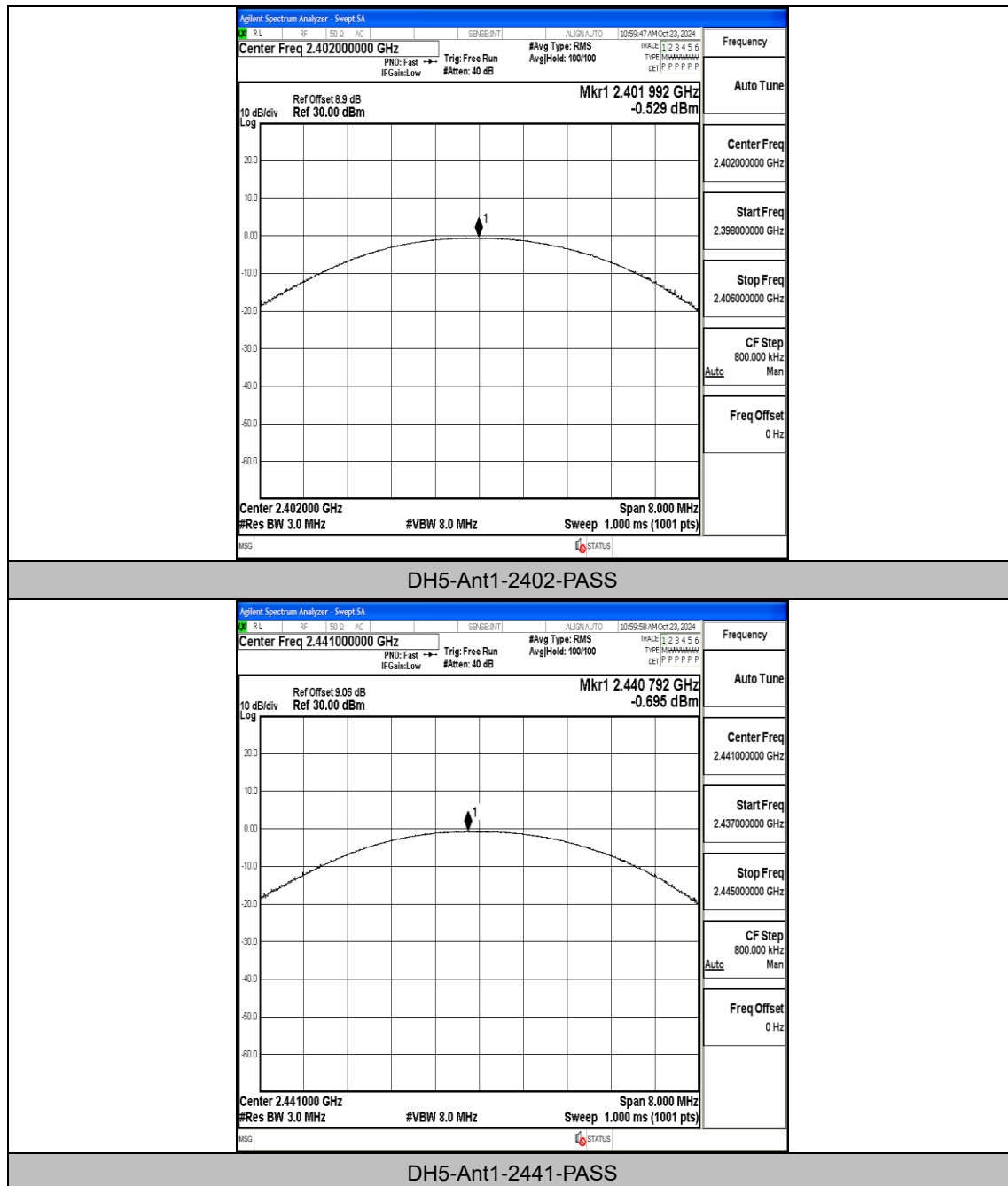


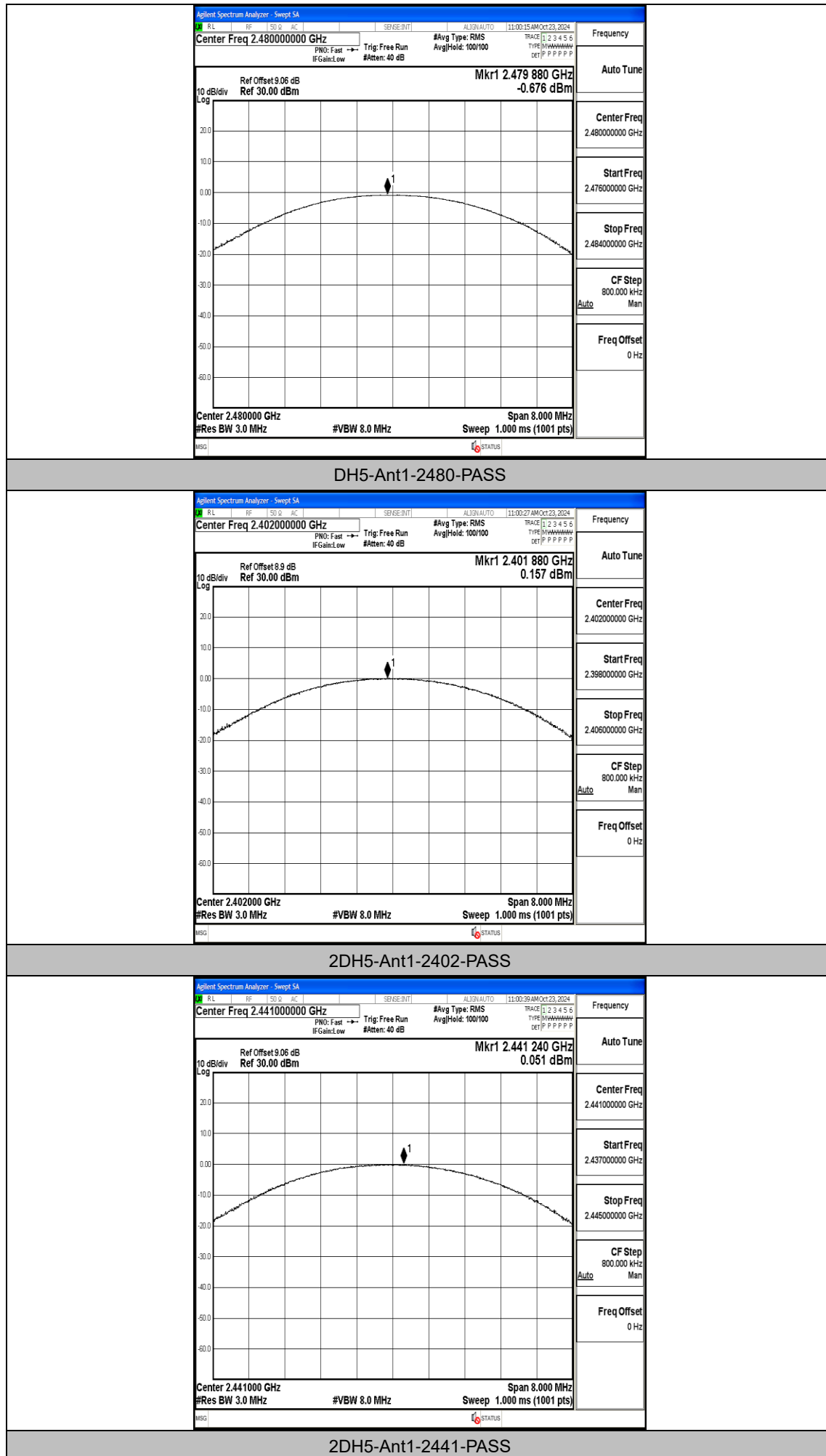
Appendix C: Maximum peak conducted output power

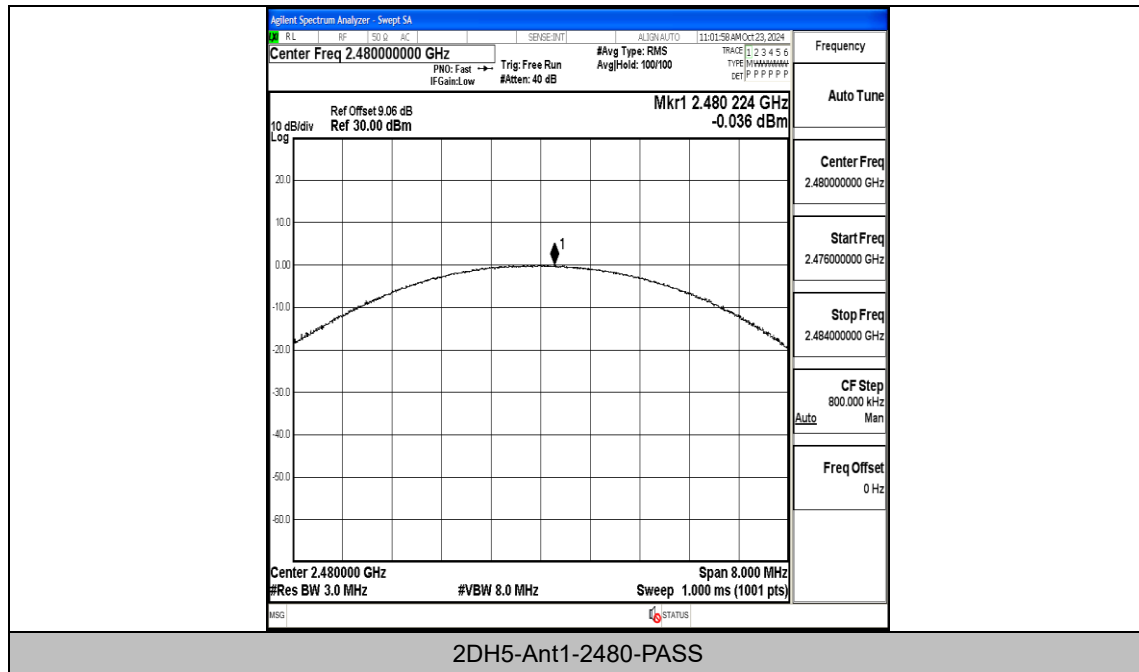
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-0.53	≤30	PASS
DH5	Ant1	2441	-0.70	≤30	PASS
DH5	Ant1	2480	-0.68	≤30	PASS
2DH5	Ant1	2402	0.16	≤20.97	PASS
2DH5	Ant1	2441	0.05	≤20.97	PASS
2DH5	Ant1	2480	-0.04	≤20.97	PASS

Test Graphs





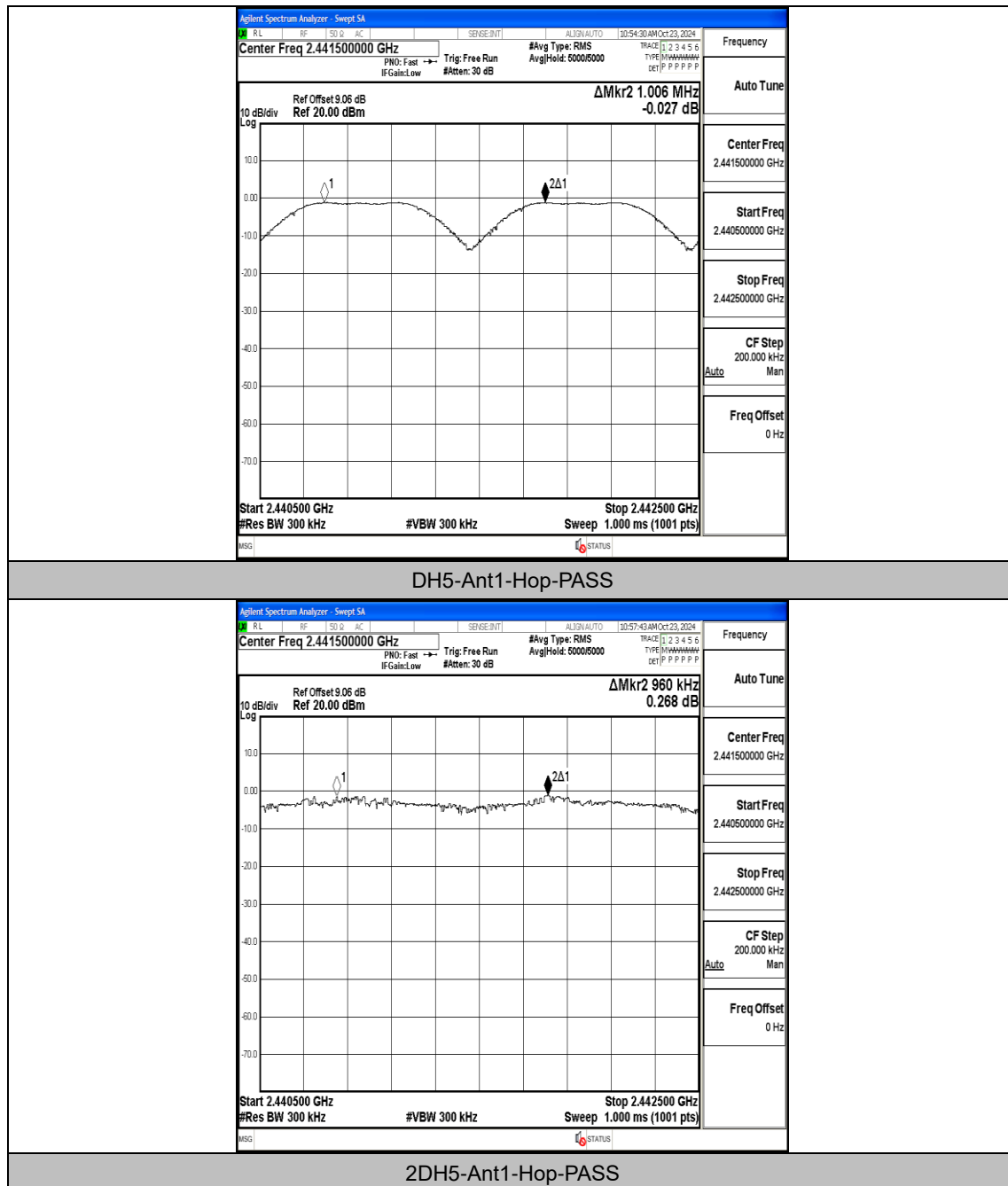


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.963	PASS
2DH5	Ant1	Hop	0.96	≥ 0.858	PASS

Test Graphs

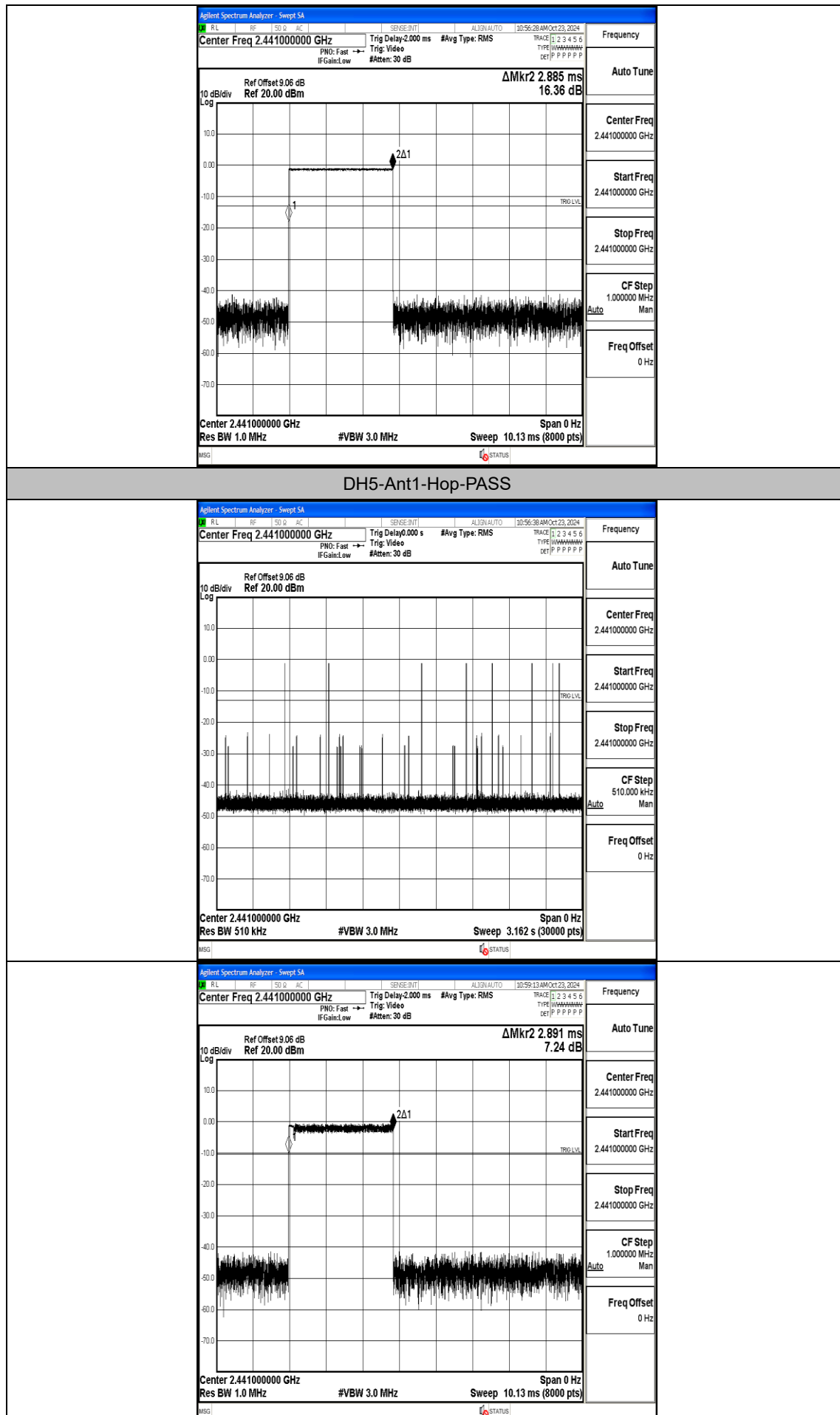


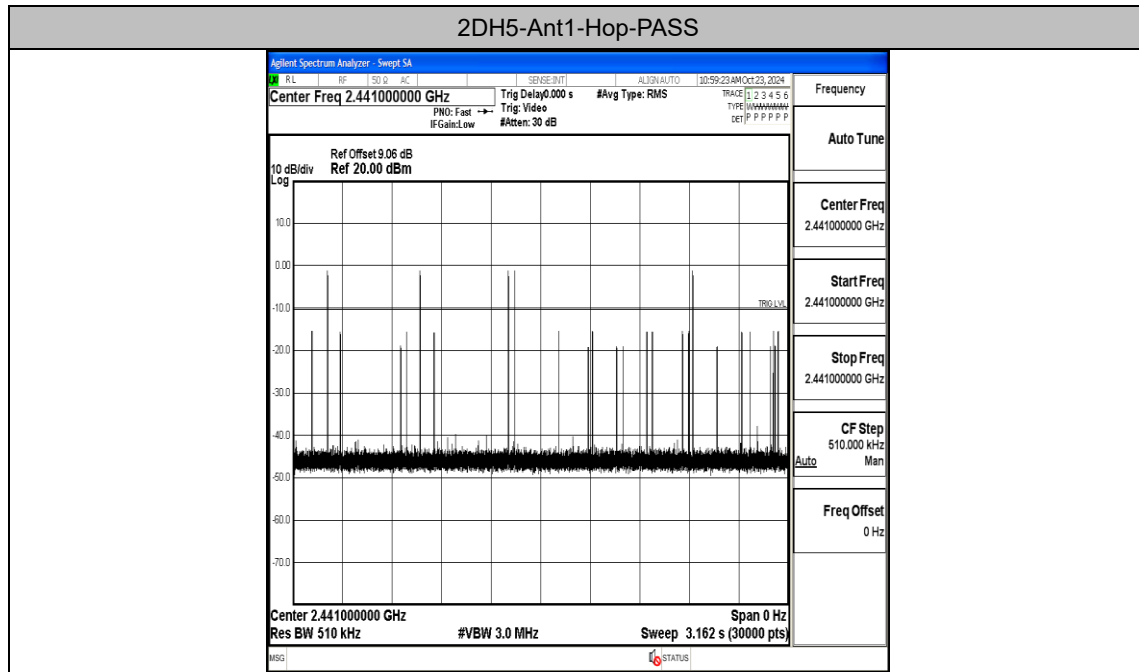
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.885	100	0.289	≤0.4	PASS
2DH5	Ant1	Hop	2.891	60	0.173	≤0.4	PASS

Test Graphs



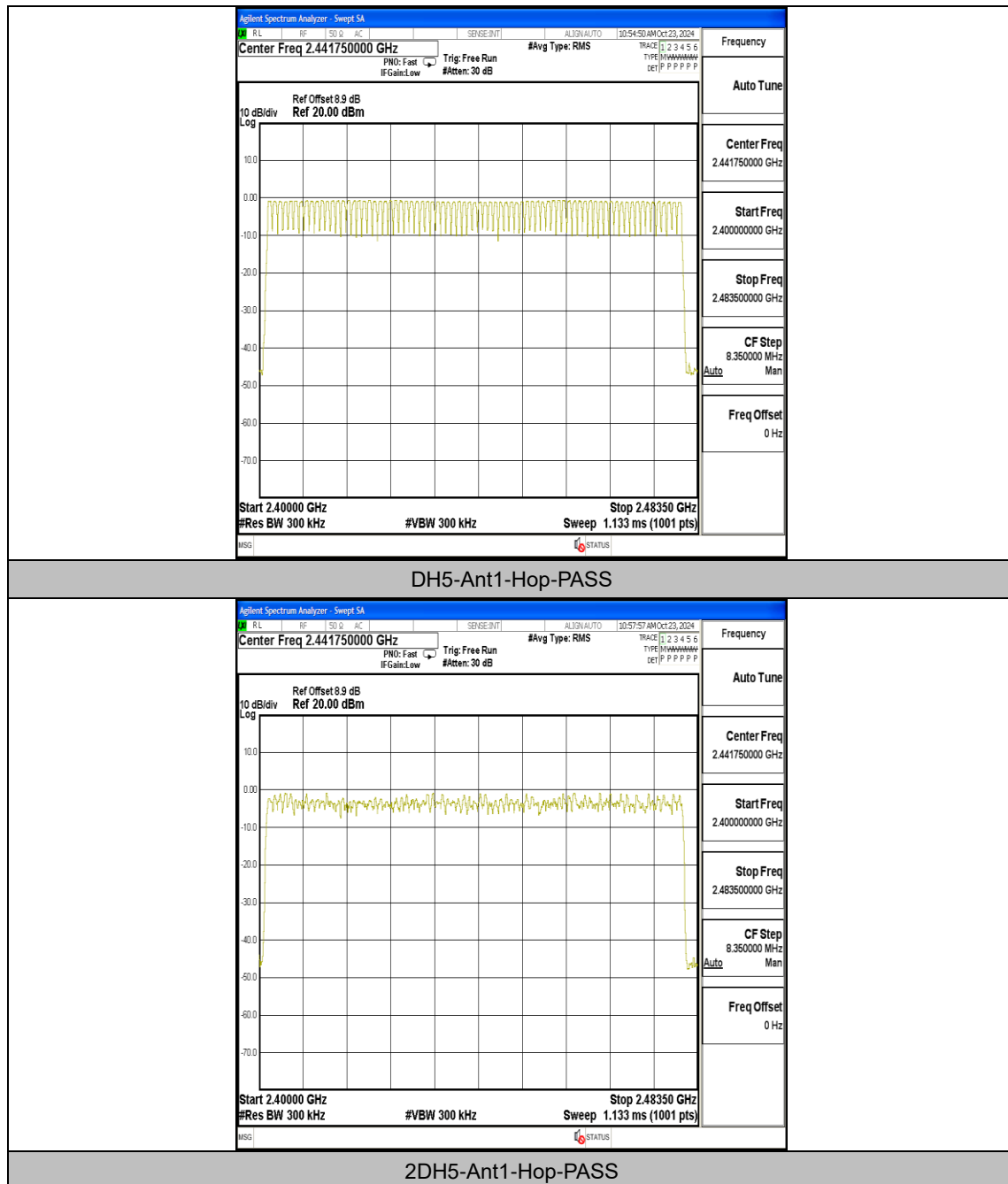


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

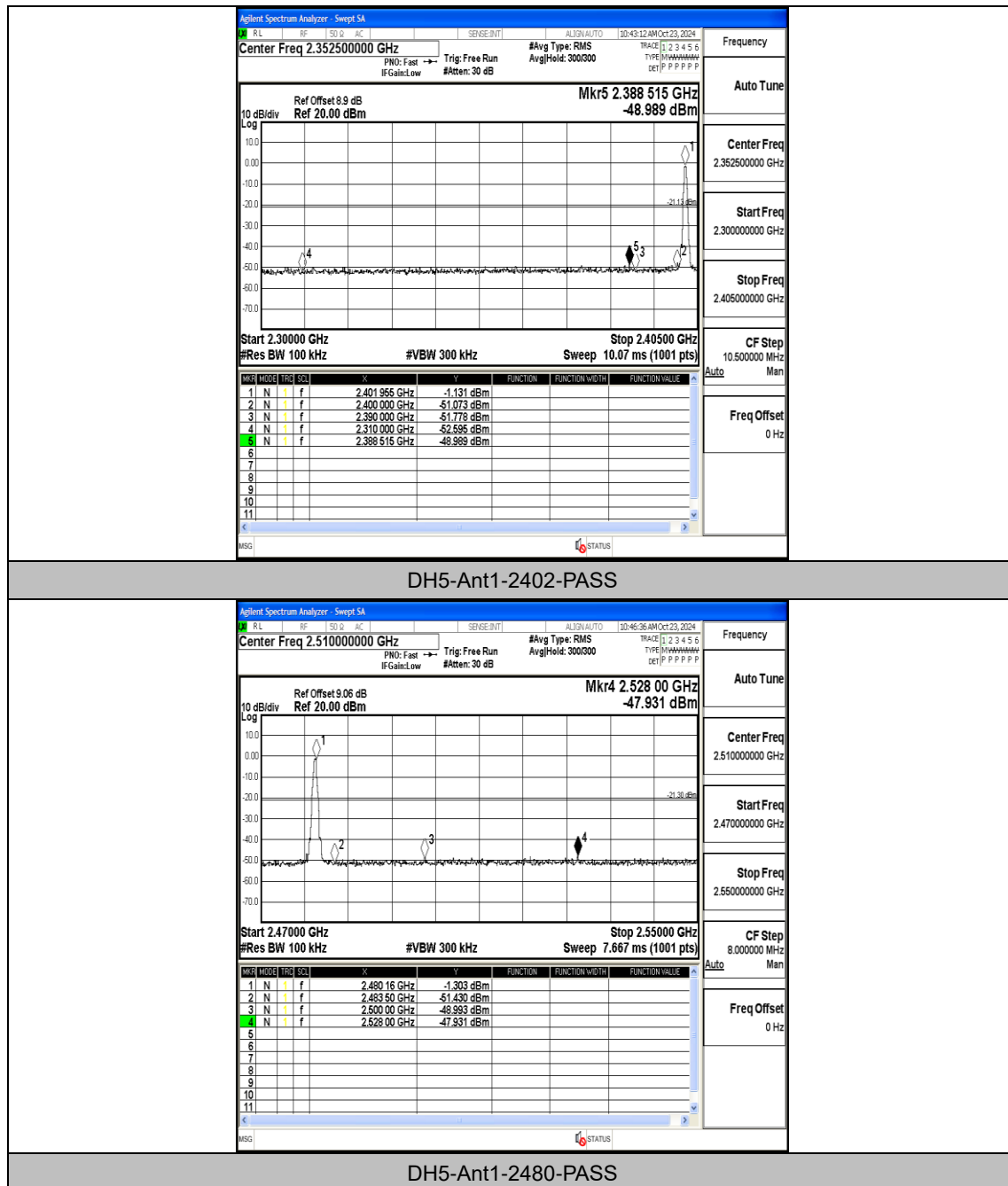


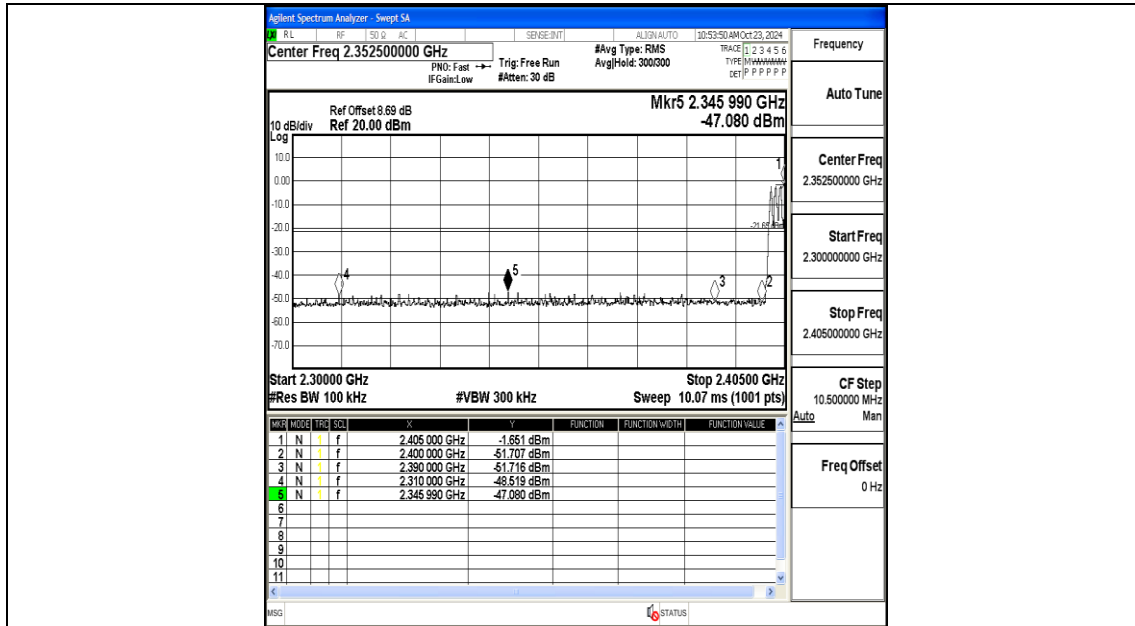
Appendix G: Band edge measurements

Test Result

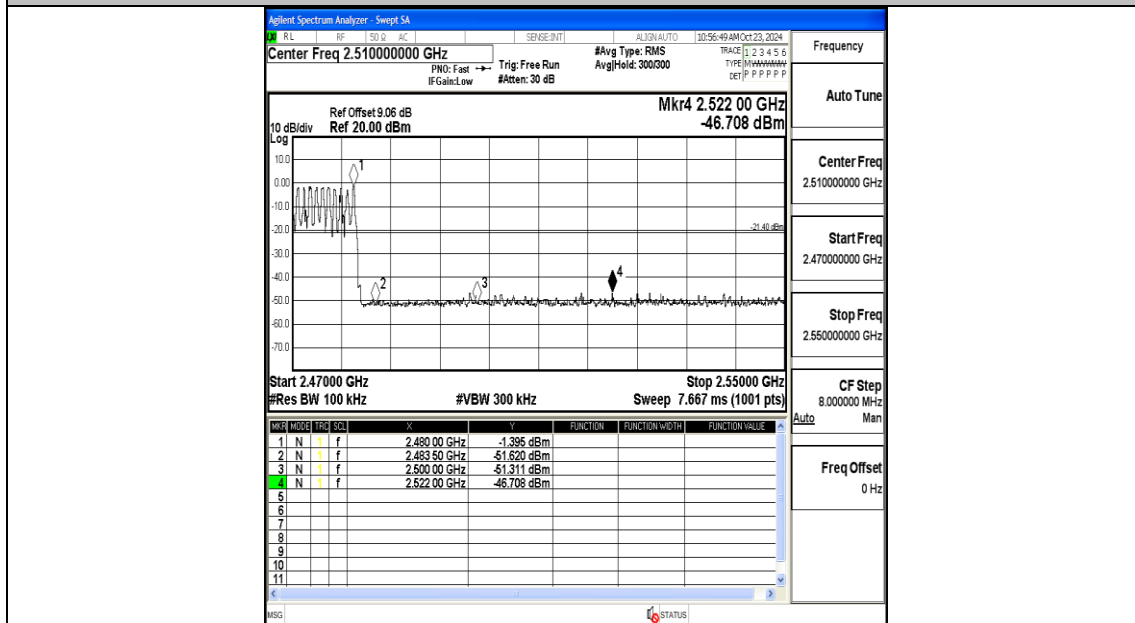
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.13	-48.99	≤ -21.13	PASS
DH5	Ant1	High	2480	-1.30	-47.93	≤ -21.3	PASS
DH5	Ant1	Low	Hop_2402	-1.65	-47.08	≤ -21.65	PASS
DH5	Ant1	High	Hop_2480	-1.40	-46.71	≤ -21.4	PASS
2DH5	Ant1	Low	2402	-1.43	-48.57	≤ -21.43	PASS
2DH5	Ant1	High	2480	-1.48	-48.39	≤ -21.48	PASS
2DH5	Ant1	Low	Hop_2402	-1.41	-49.28	≤ -21.41	PASS
2DH5	Ant1	High	Hop_2480	-2.08	-47.25	≤ -22.08	PASS

Test Graphs

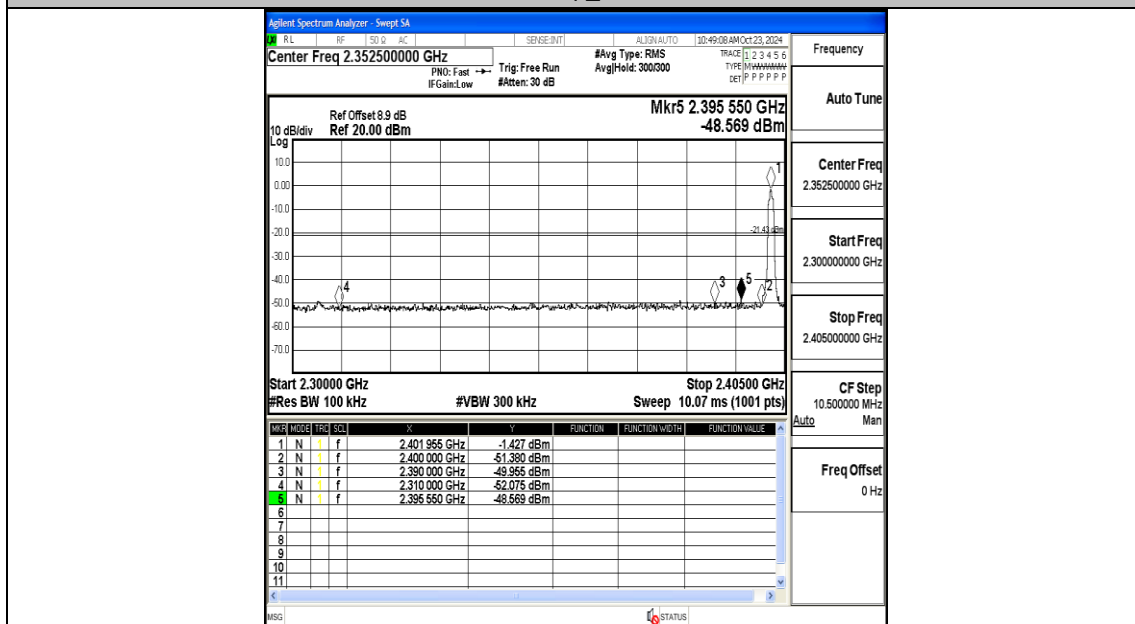




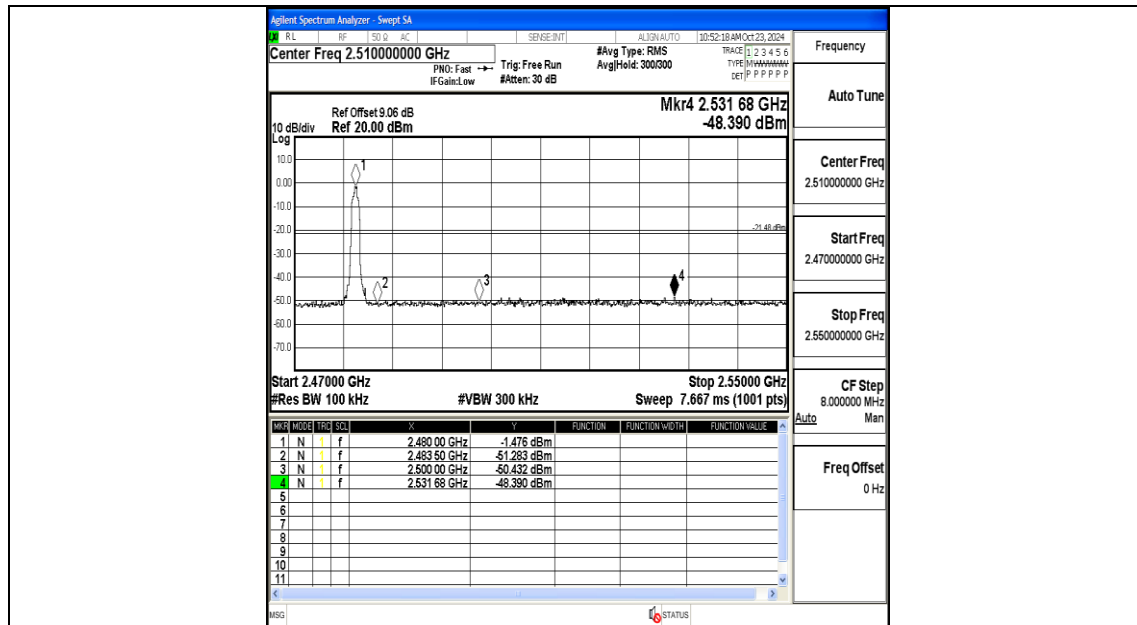
DH5-Ant1-Hop_2402-PASS



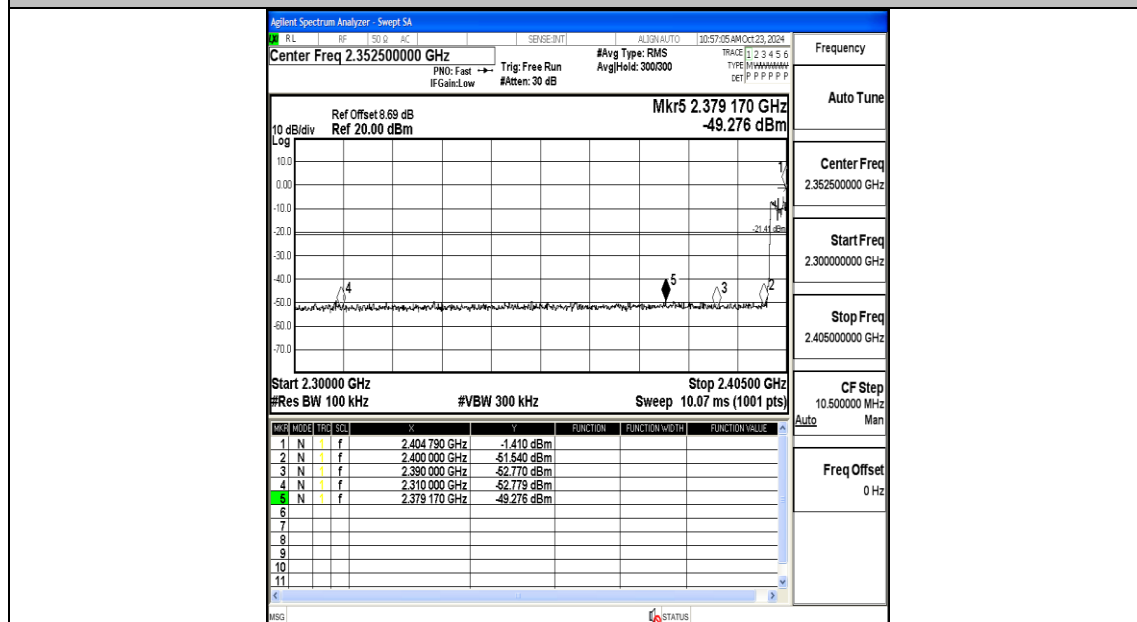
DH5-Ant1-Hop_2480-PASS



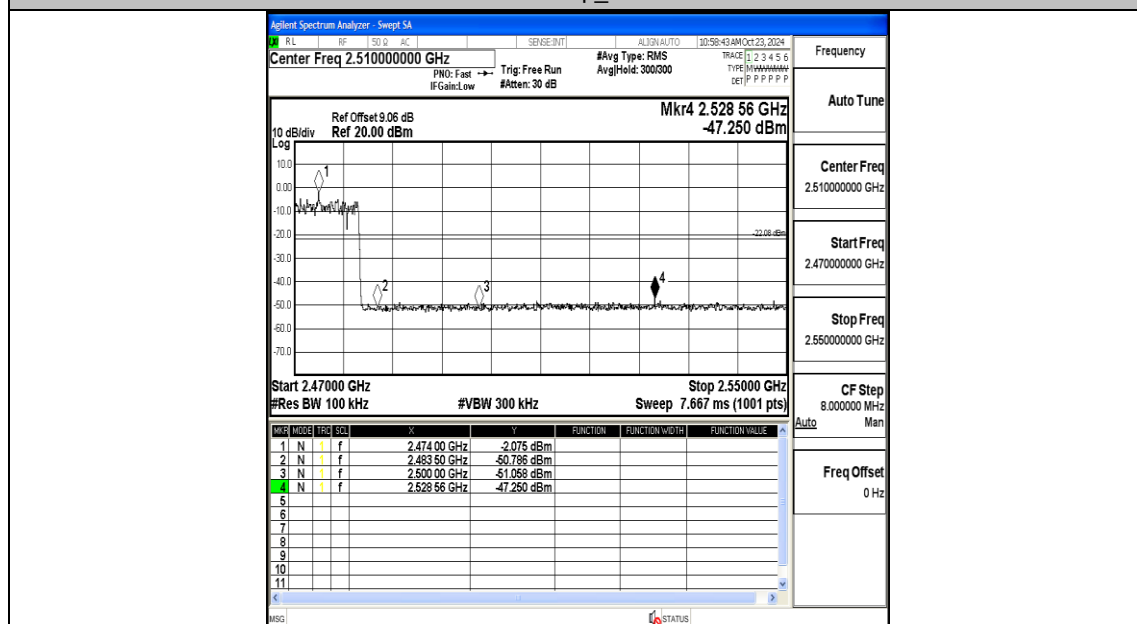
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



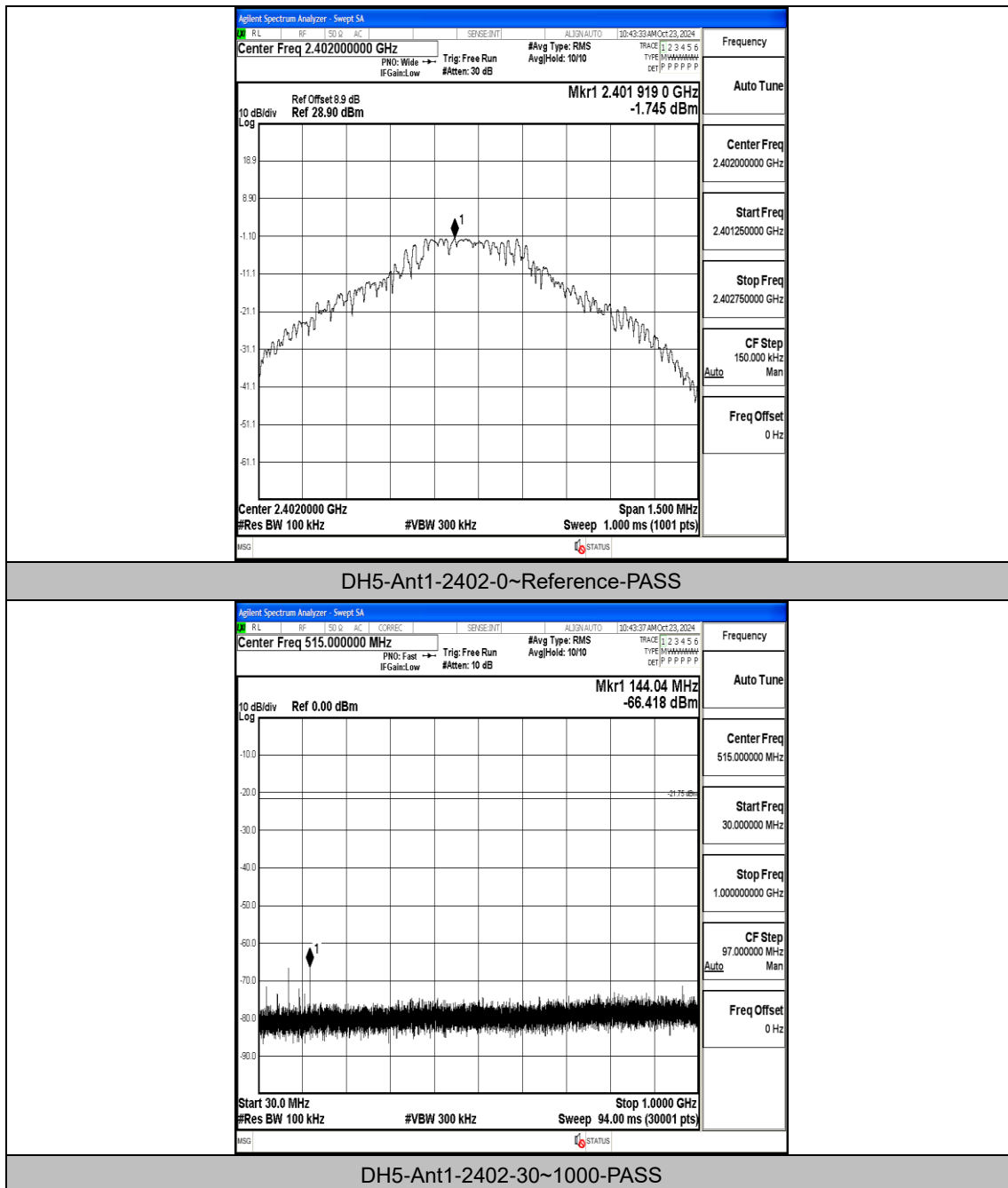
2DH5-Ant1-Hop_2480-PASS

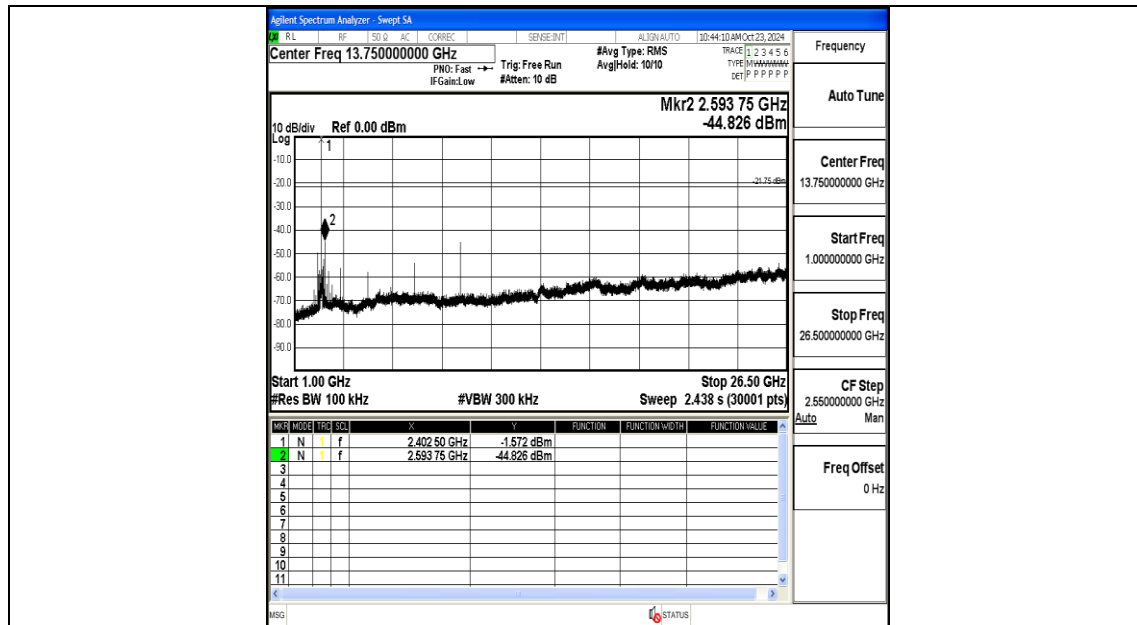
Appendix H: Conducted Spurious Emission

Test Result

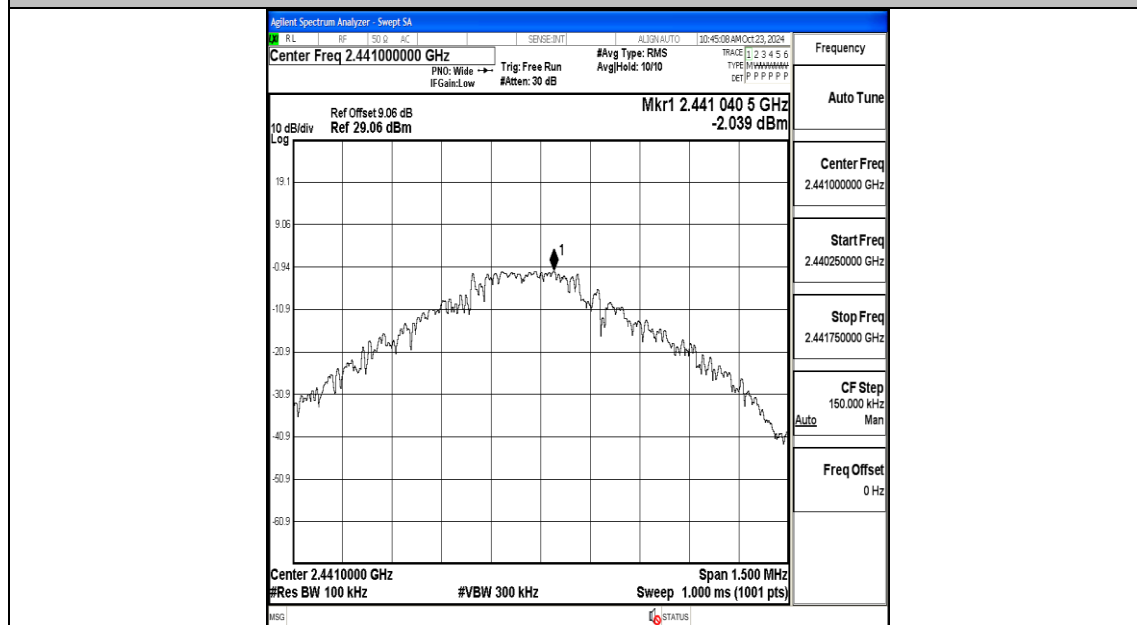
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.75	-1.75	---	PASS
DH5	Ant1	2402	30~1000	-1.75	-66.42	≤-21.75	PASS
DH5	Ant1	2402	1000~26500	-1.75	-44.83	≤-21.75	PASS
DH5	Ant1	2441	0~Reference	-2.04	-2.04	---	PASS
DH5	Ant1	2441	30~1000	-2.04	-65.17	≤-22.04	PASS
DH5	Ant1	2441	1000~26500	-2.04	-42.75	≤-22.04	PASS
DH5	Ant1	2480	0~Reference	-1.74	-1.74	---	PASS
DH5	Ant1	2480	30~1000	-1.74	-65.75	≤-21.74	PASS
DH5	Ant1	2480	1000~26500	-1.74	-39.11	≤-21.74	PASS
2DH5	Ant1	2402	0~Reference	-4.28	-4.28	---	PASS
2DH5	Ant1	2402	30~1000	-4.28	-62.46	≤-24.28	PASS
2DH5	Ant1	2402	1000~26500	-4.28	-44.95	≤-24.28	PASS
2DH5	Ant1	2441	0~Reference	-2.22	-2.22	---	PASS
2DH5	Ant1	2441	30~1000	-2.22	-61.66	≤-22.22	PASS
2DH5	Ant1	2441	1000~26500	-2.22	-42.46	≤-22.22	PASS
2DH5	Ant1	2480	0~Reference	-4.38	-4.38	---	PASS
2DH5	Ant1	2480	30~1000	-4.38	-65.03	≤-24.38	PASS
2DH5	Ant1	2480	1000~26500	-4.38	-39.07	≤-24.38	PASS

Test Graphs

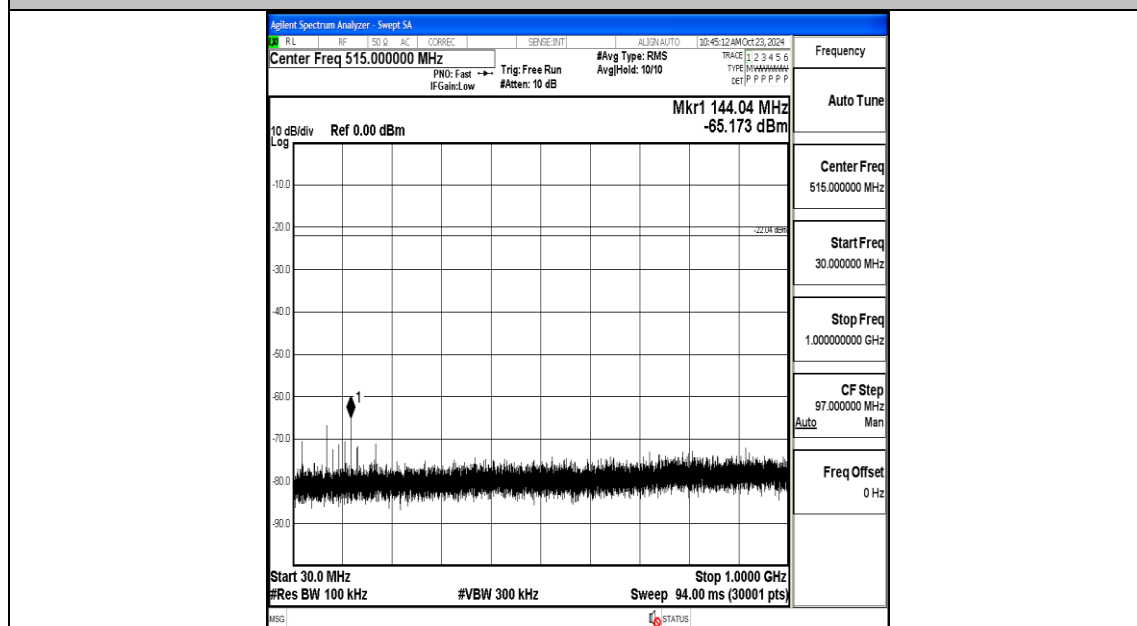




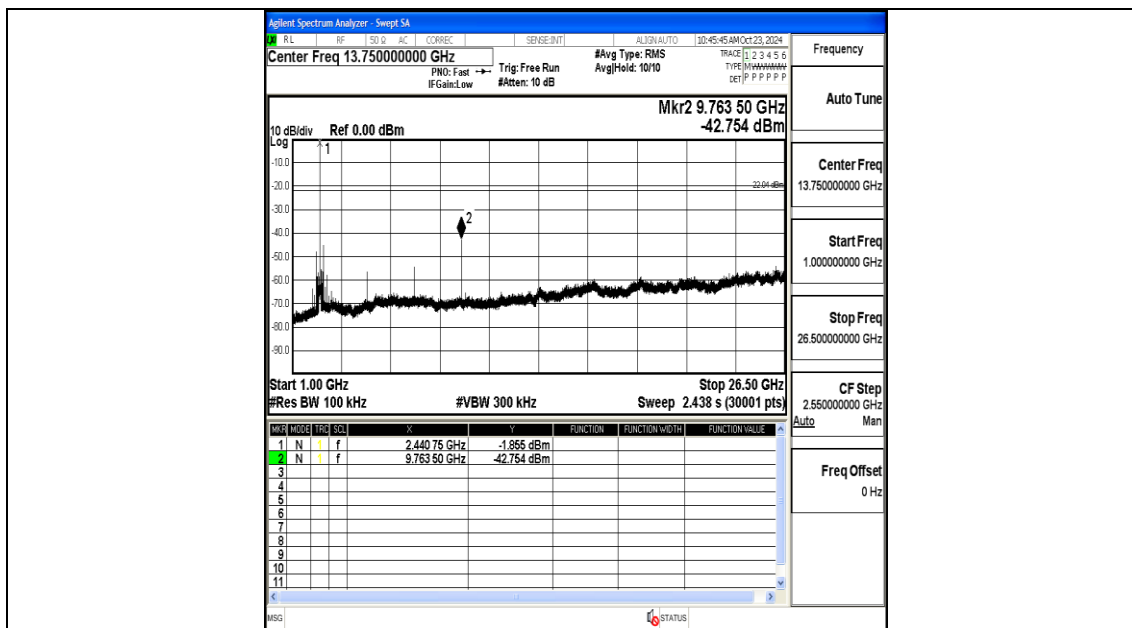
DH5-Ant1-2402-1000~26500-PASS



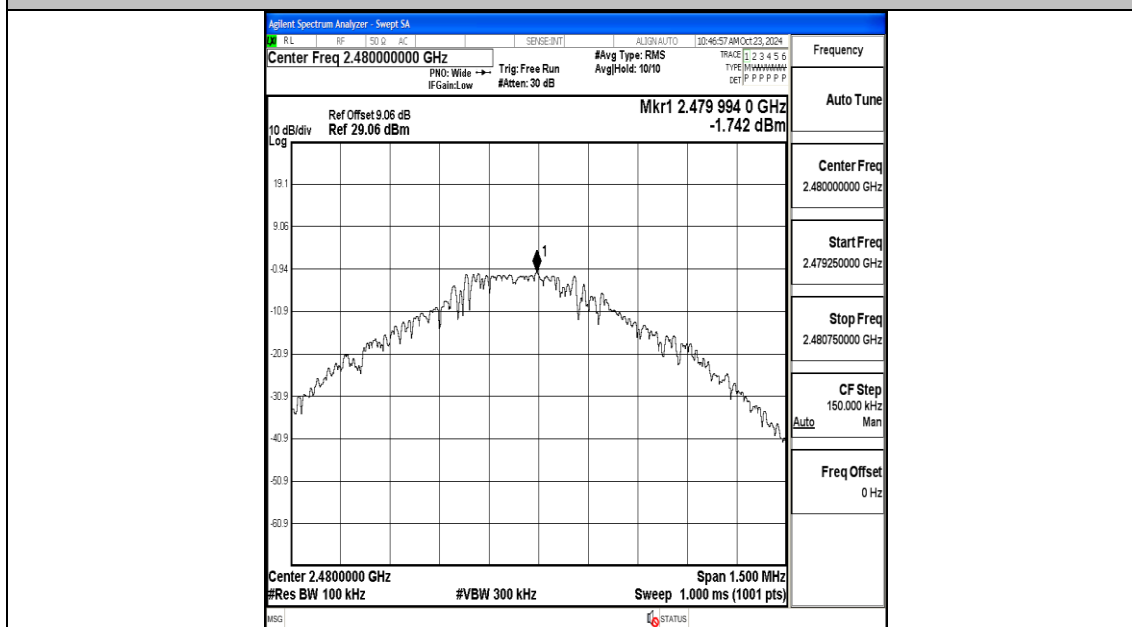
DH5-Ant1-2441-0~Reference-PASS



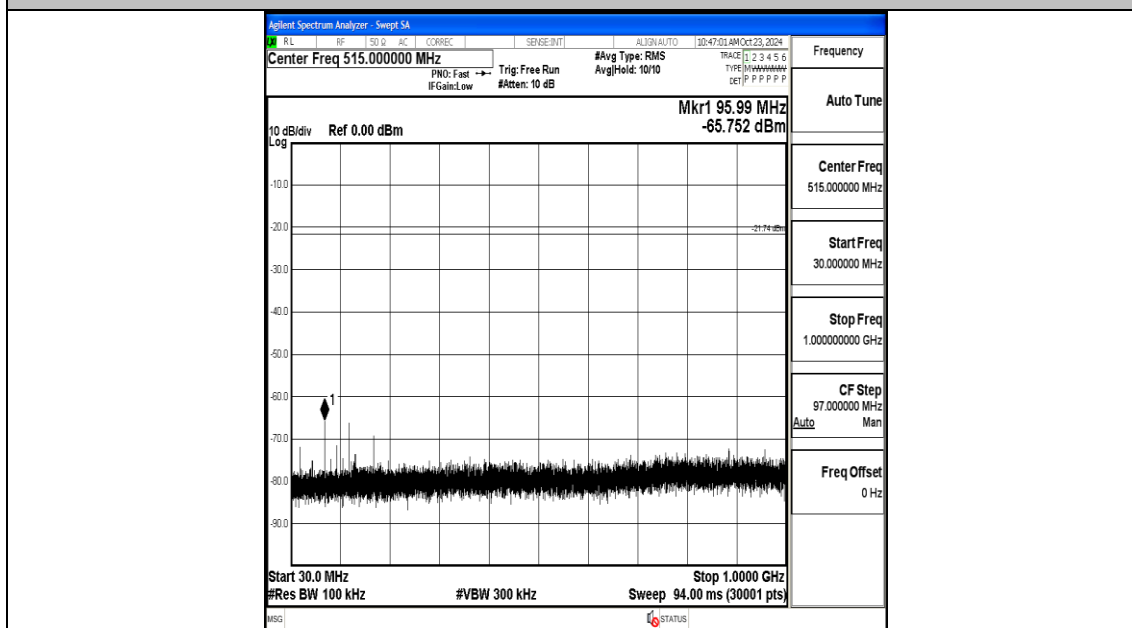
DH5-Ant1-2441-30~1000-PASS



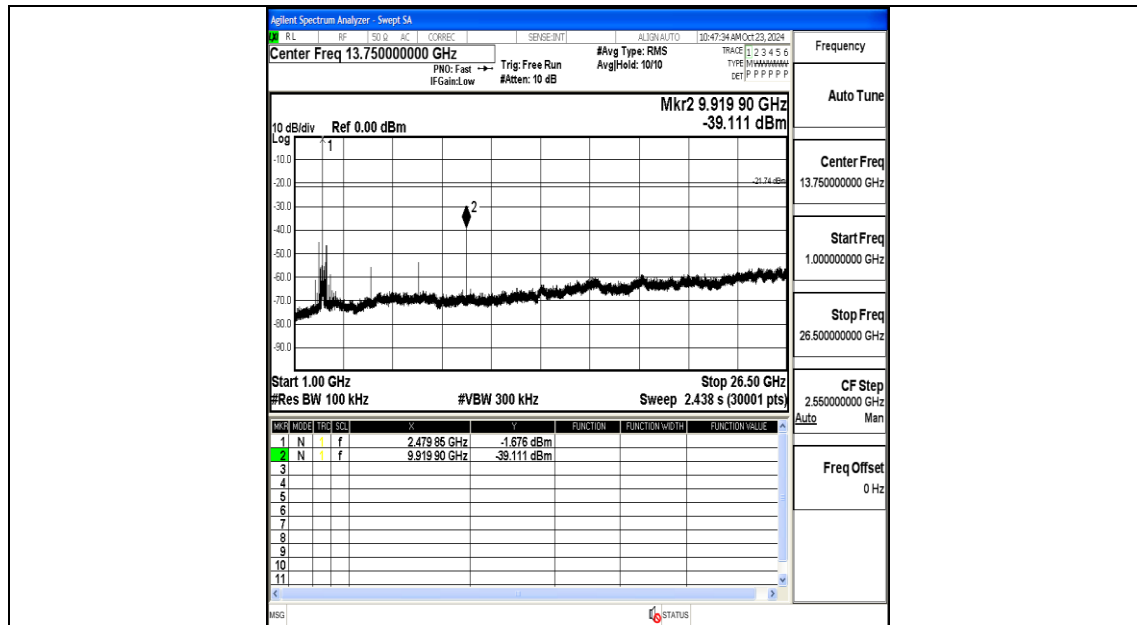
DH5-Ant1-2441-1000~26500-PASS



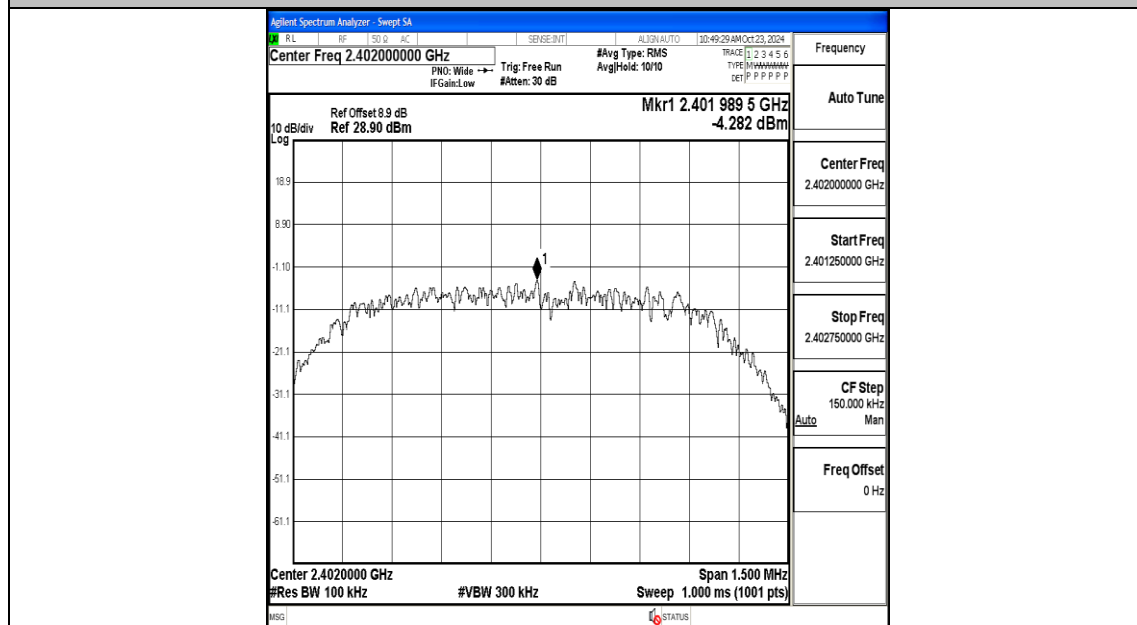
DH5-Ant1-2480-0~Reference-PASS



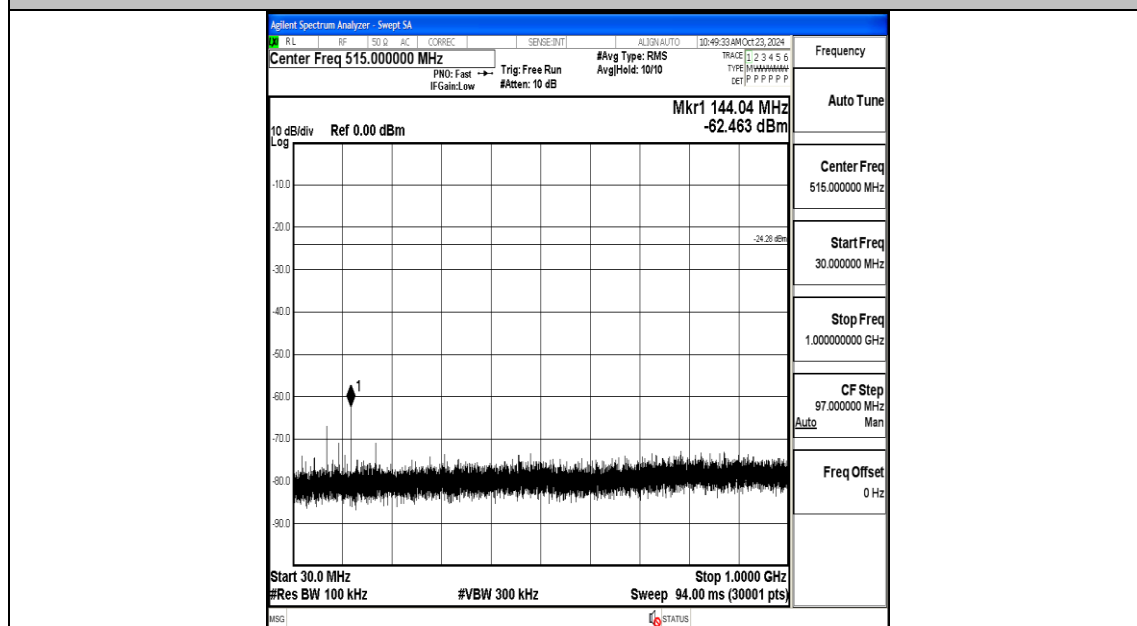
DH5-Ant1-2480-30~1000-PASS



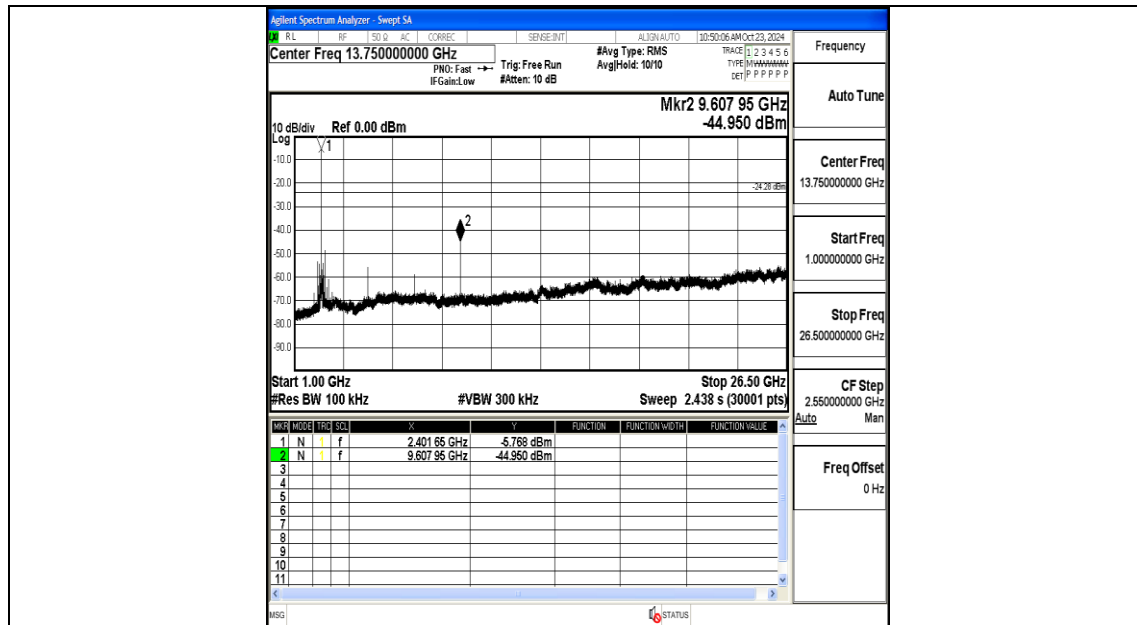
DH5-Ant1-2480-1000~26500-PASS



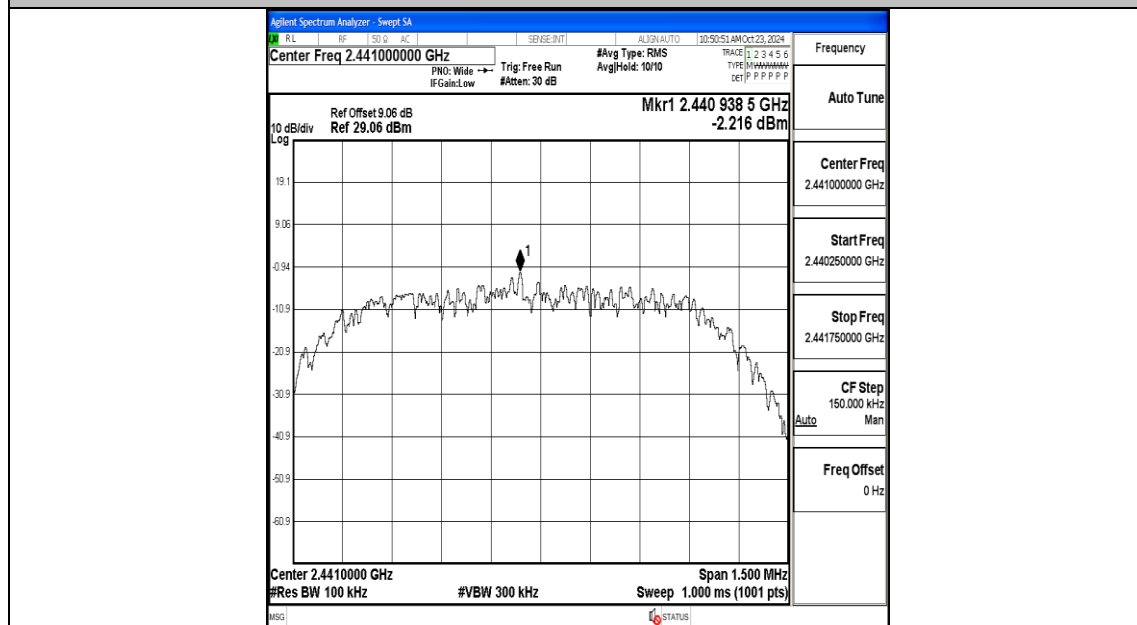
2DH5-Ant1-2402-0~Reference-PASS



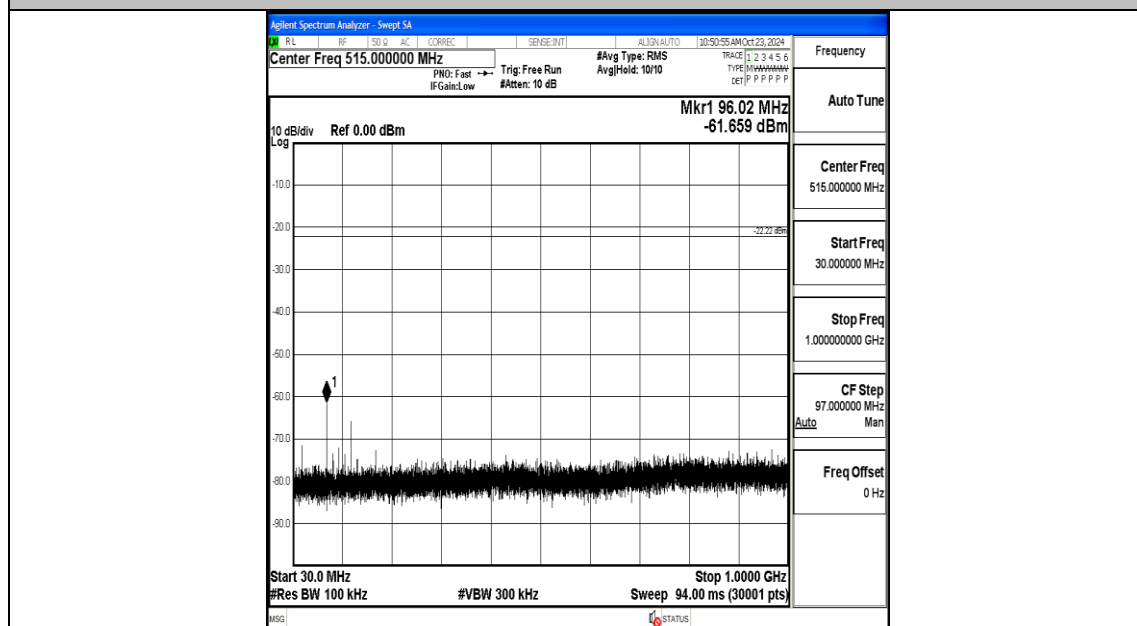
2DH5-Ant1-2402-30~1000-PASS



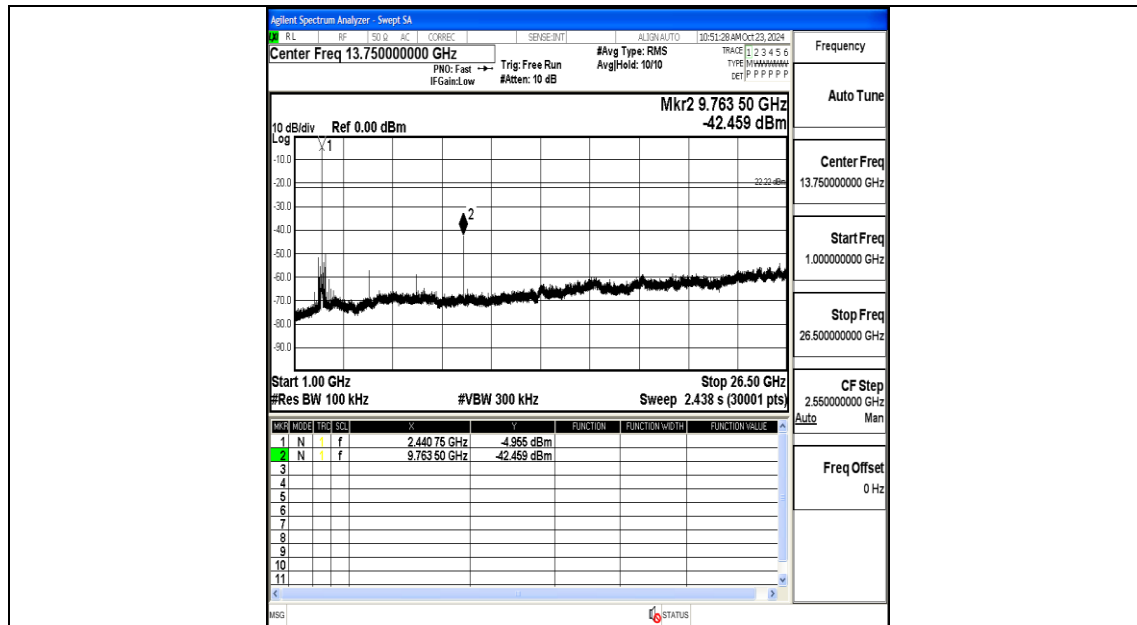
2DH5-Ant1-2402-1000~26500-PASS



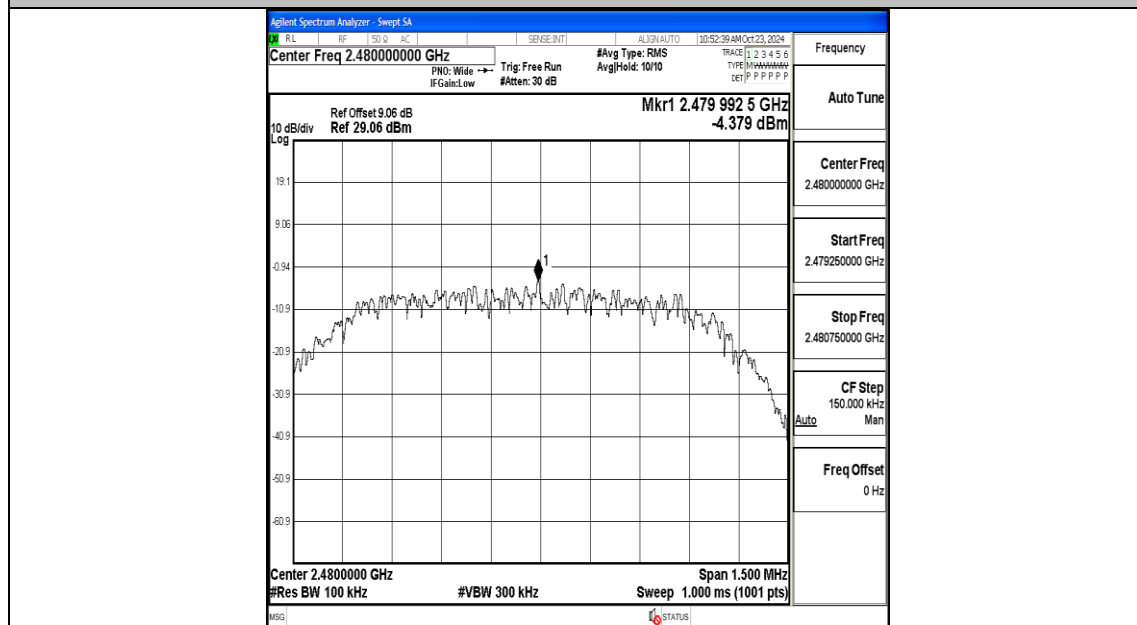
2DH5-Ant1-2441-0~Reference-PASS



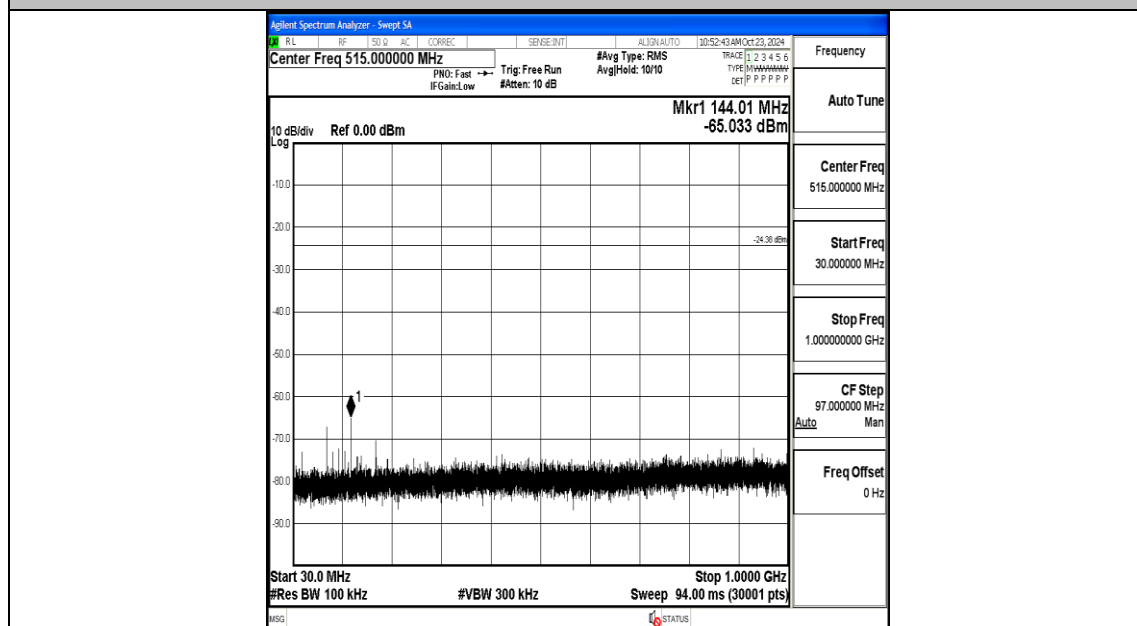
2DH5-Ant1-2441-30~1000-PASS



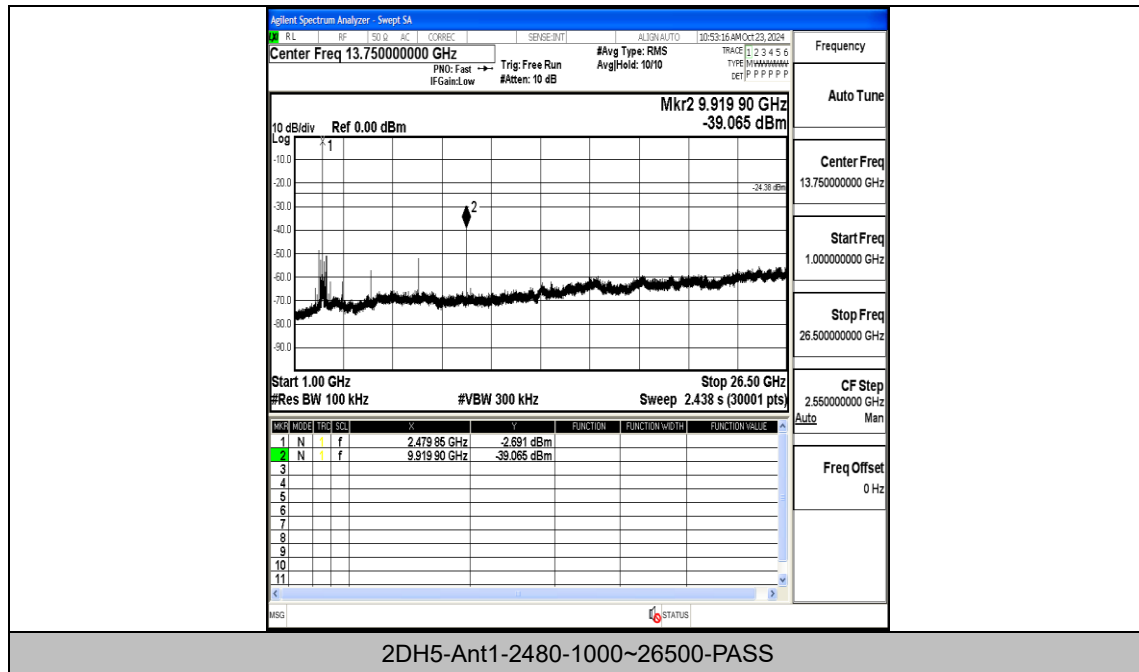
2DH5-Ant1-2441-1000~26500-PASS



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



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



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	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.74	77.01	1.13
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13

Test Graphs

