

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

Product Name: Bluetooth Sleeping Speaker With LED Light

Trade Mark: /

Test Model: L28LRGB

FCC ID: 2AA4B-L28LRGB

Environmental Conditions

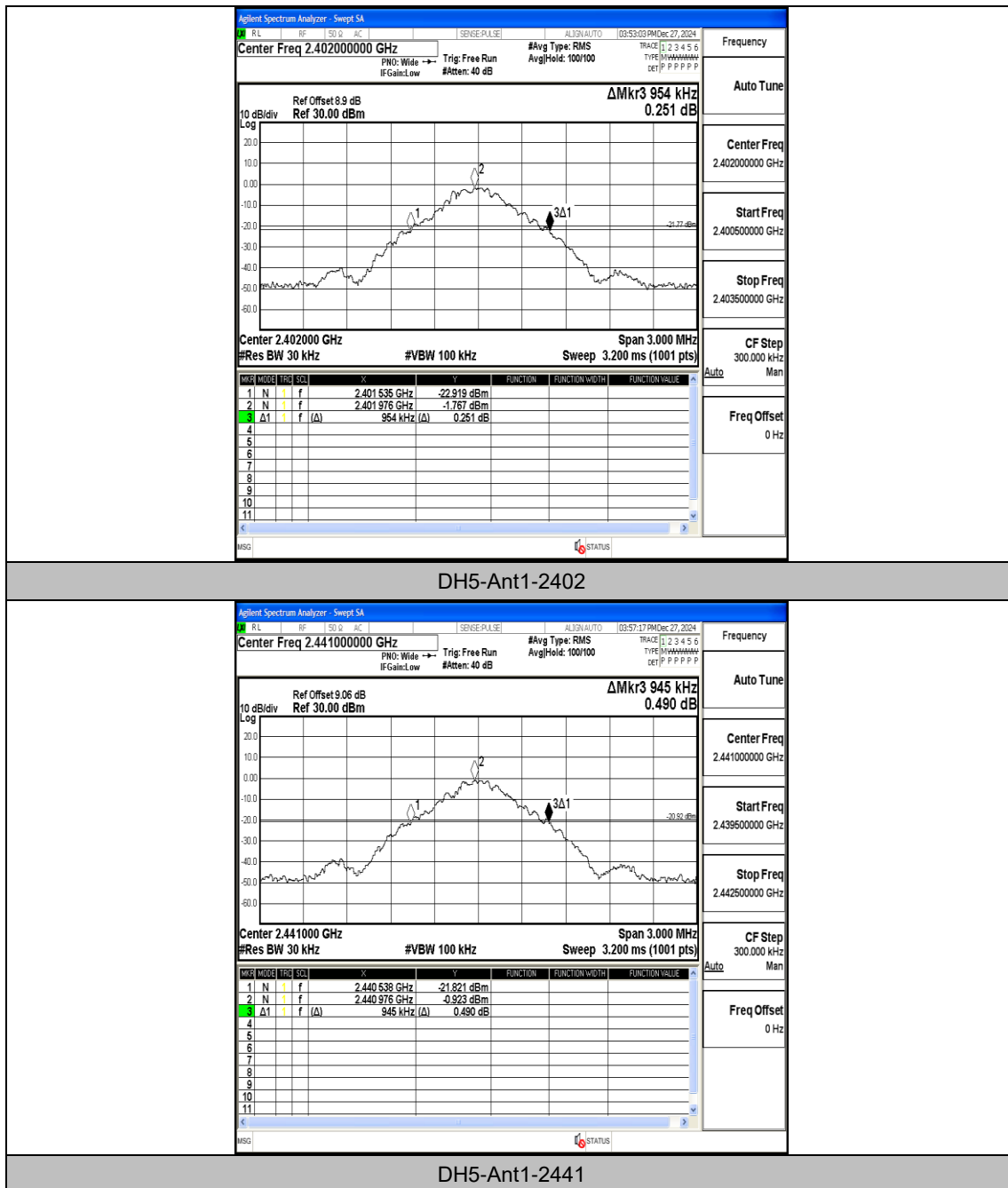
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

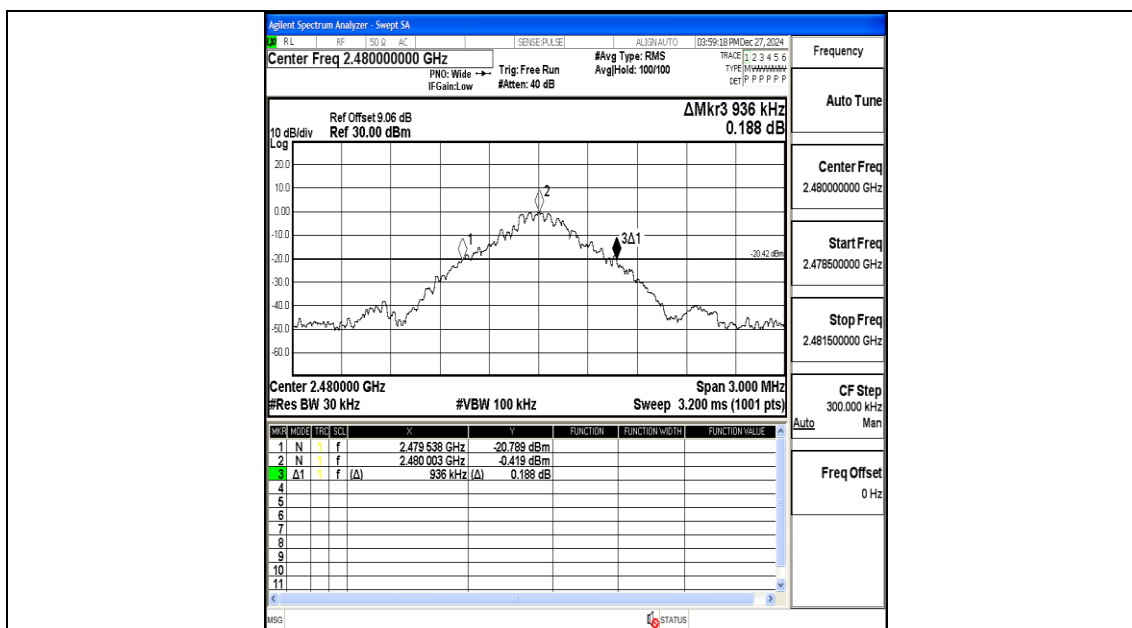
Appendix A: 20dB Emission Bandwidth

Test Result

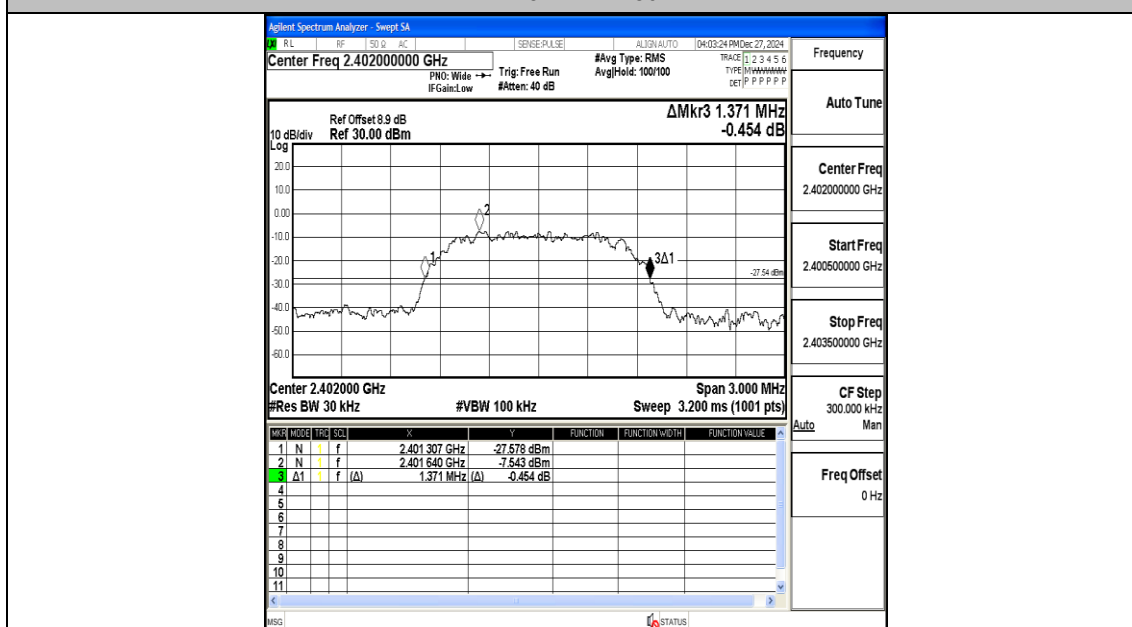
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.954	2401.535	2402.489	---	---
DH5	Ant1	2441	0.945	2440.538	2441.483	---	---
DH5	Ant1	2480	0.936	2479.538	2480.474	---	---
2DH5	Ant1	2402	1.371	2401.307	2402.678	---	---
2DH5	Ant1	2441	1.305	2440.337	2441.642	---	---
2DH5	Ant1	2480	1.347	2479.328	2480.675	---	---

Test Graphs

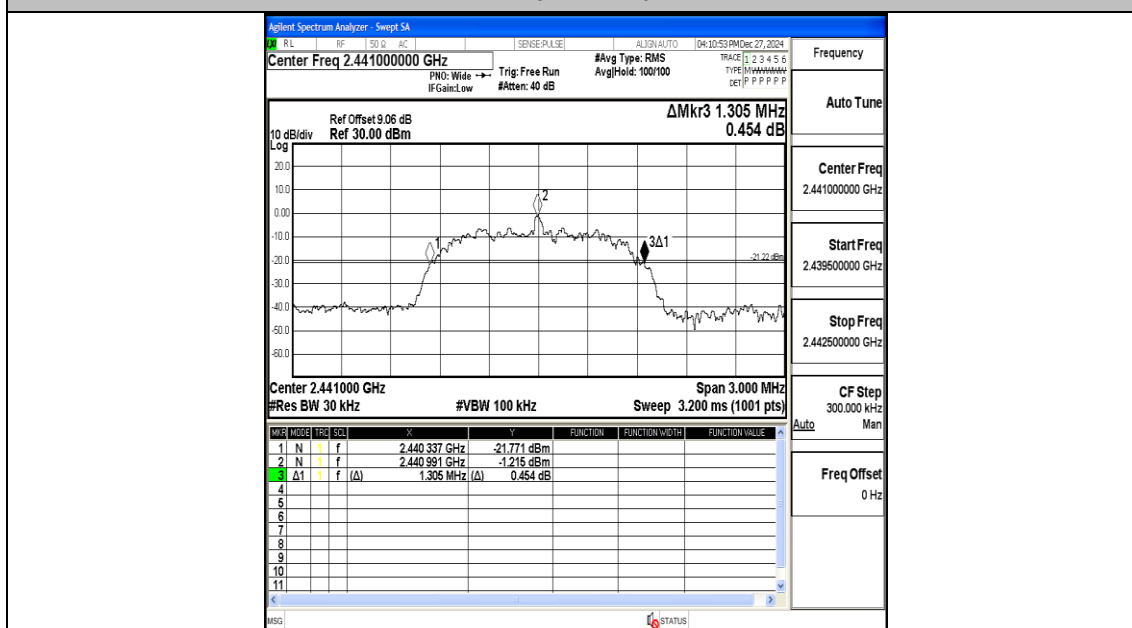




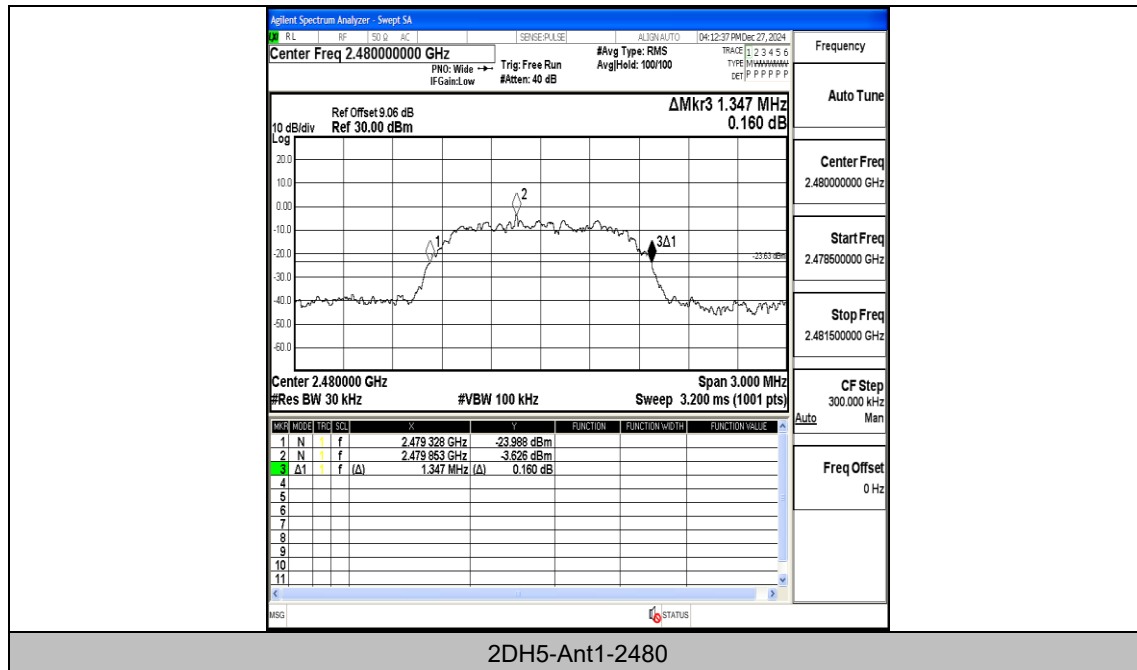
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

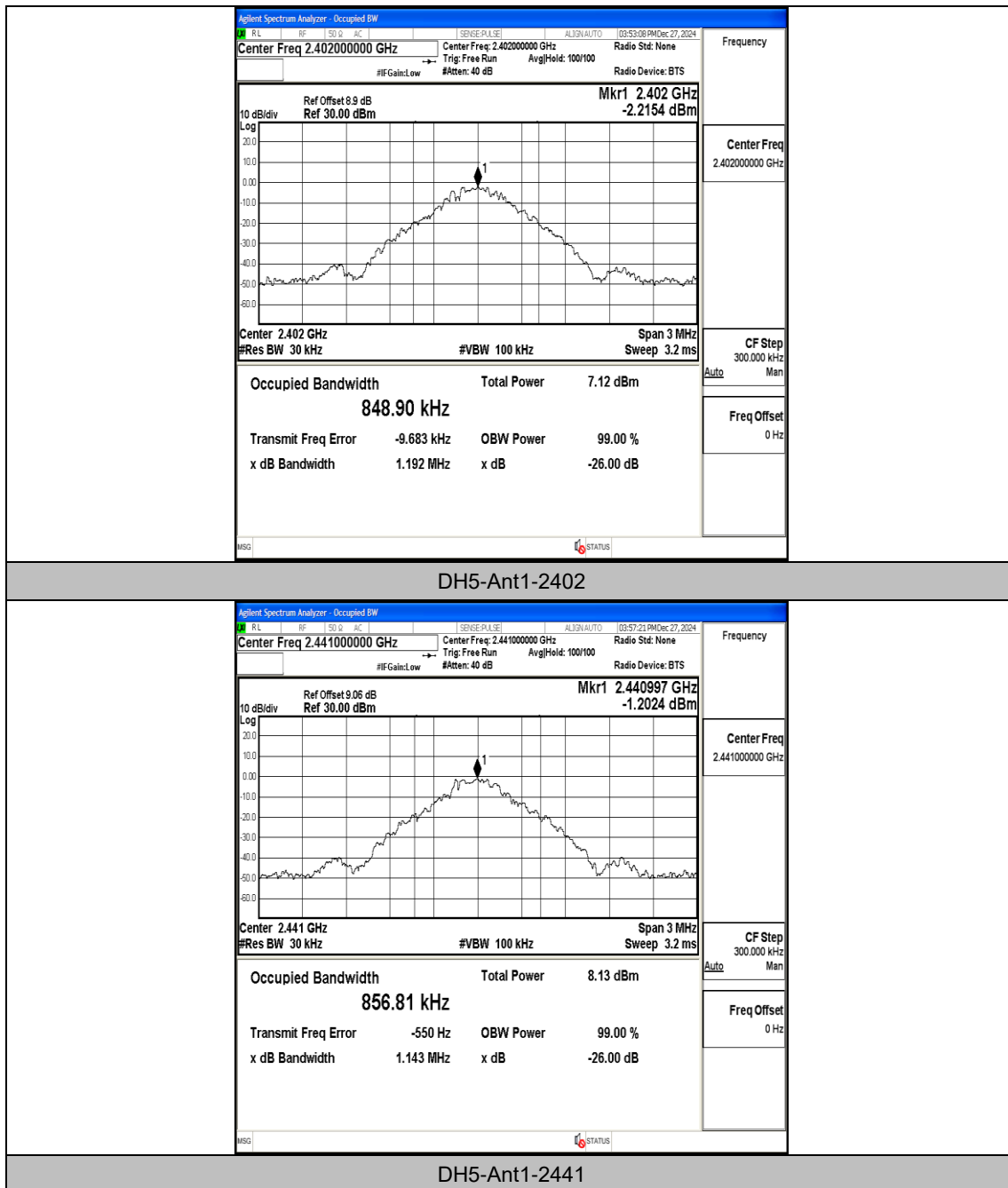


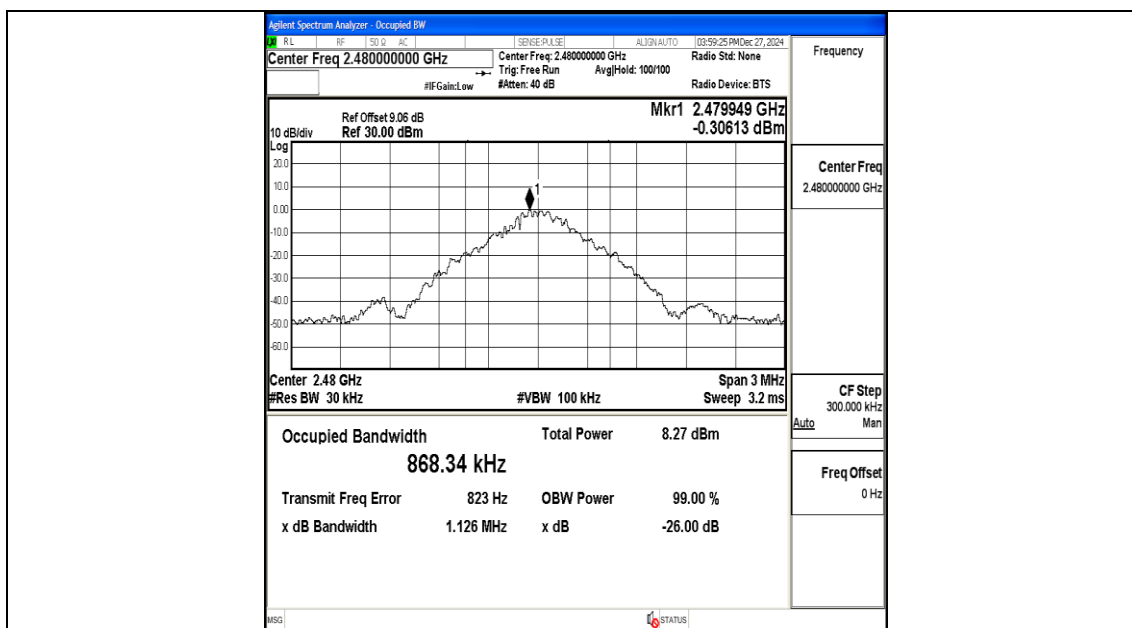
Appendix B: Occupied Channel Bandwidth

Test Result

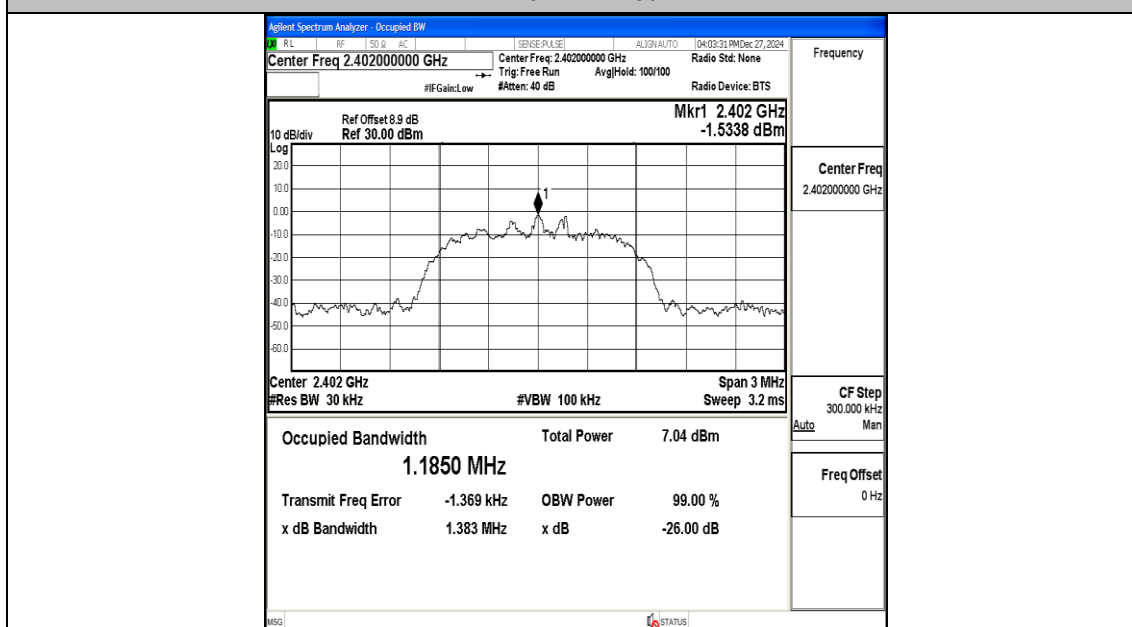
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.84890	2401.5659	2402.4148	---	---
DH5	Ant1	2441	0.85681	2440.5710	2441.4279	---	---
DH5	Ant1	2480	0.86834	2479.5667	2480.4350	---	---
2DH5	Ant1	2402	1.1850	2401.4061	2402.5911	---	---
2DH5	Ant1	2441	1.1981	2440.3980	2441.5961	---	---
2DH5	Ant1	2480	1.1979	2479.4034	2480.6013	---	---

Test Graphs

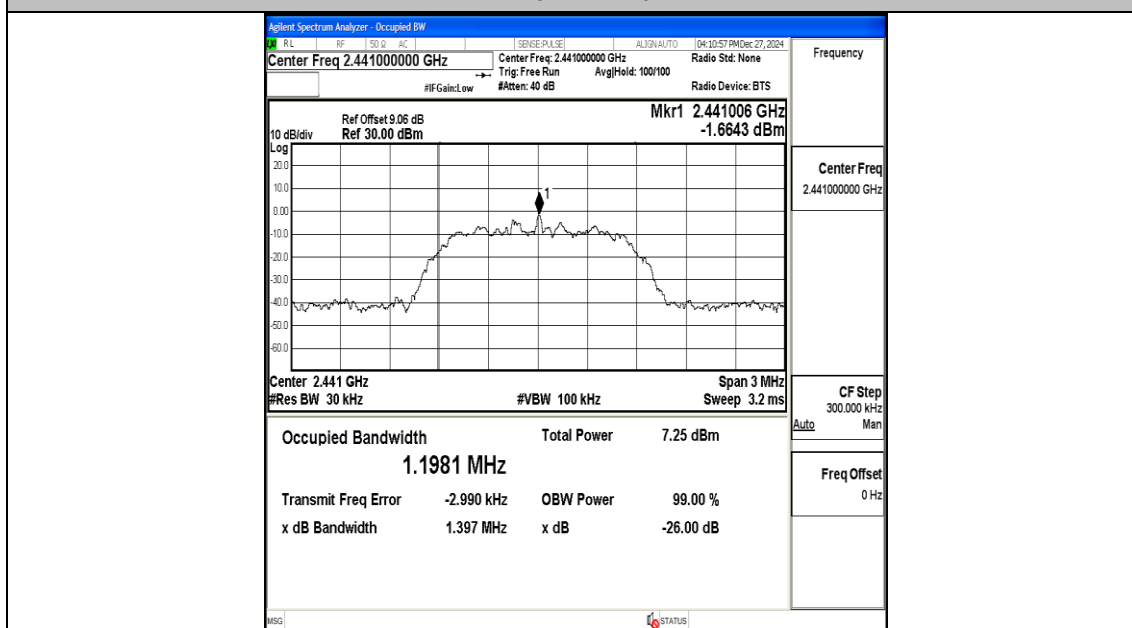




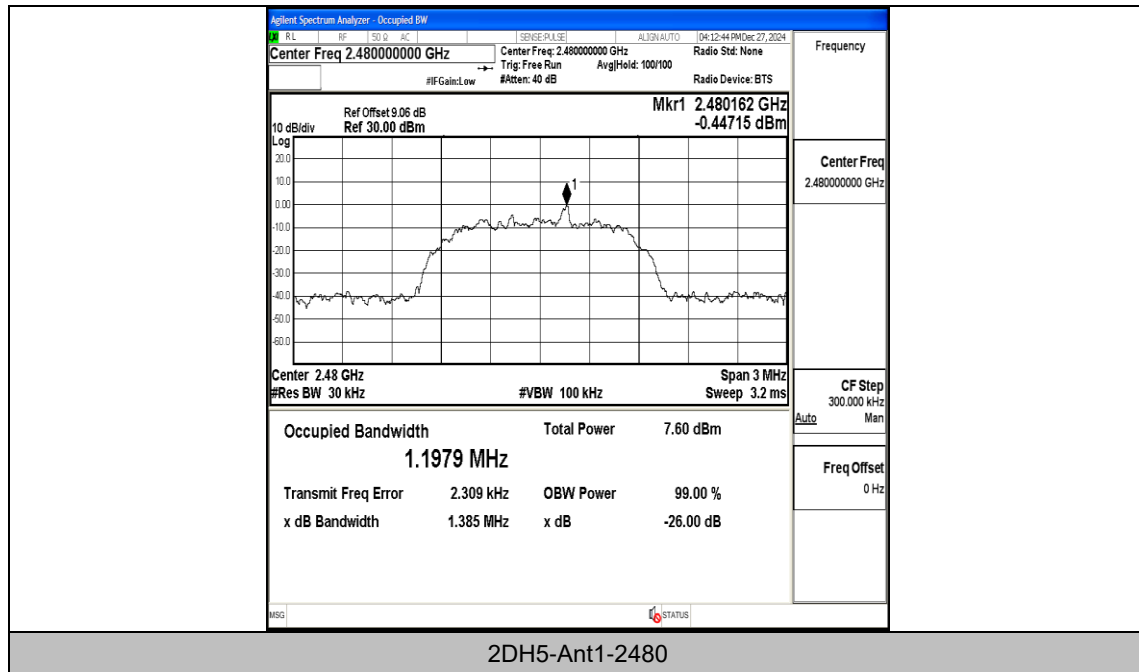
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

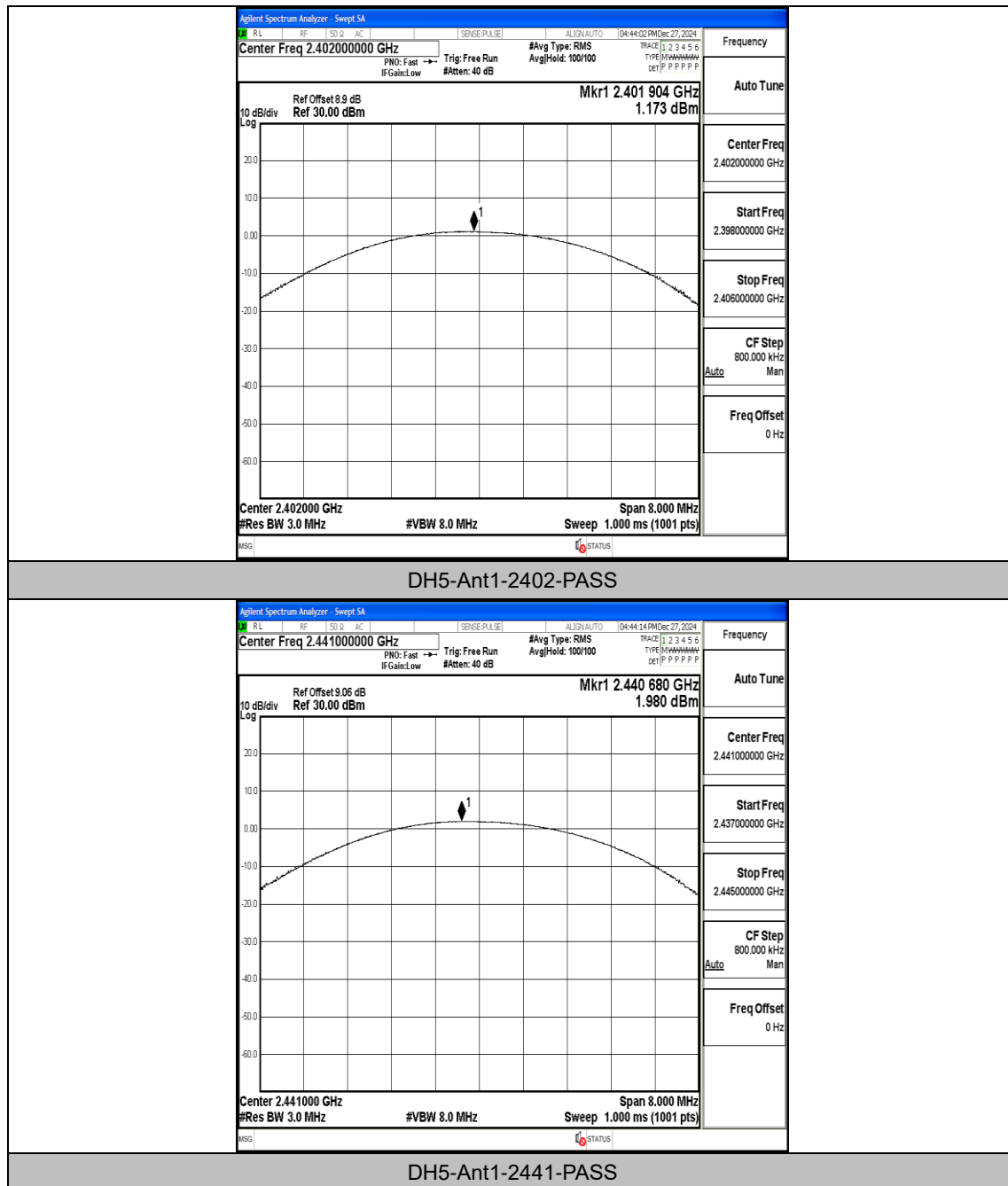


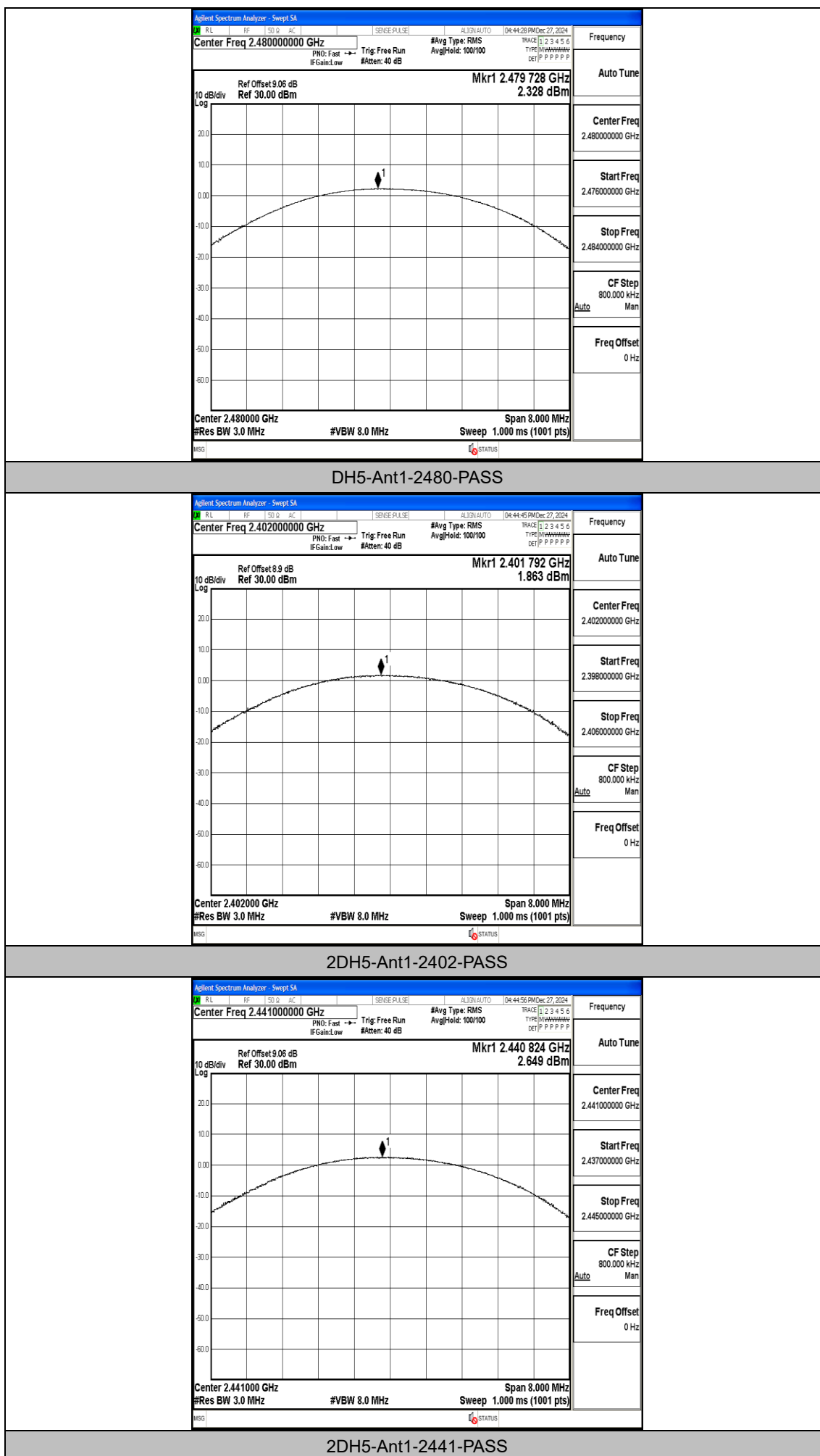
Appendix C: Maximum peak conducted output power

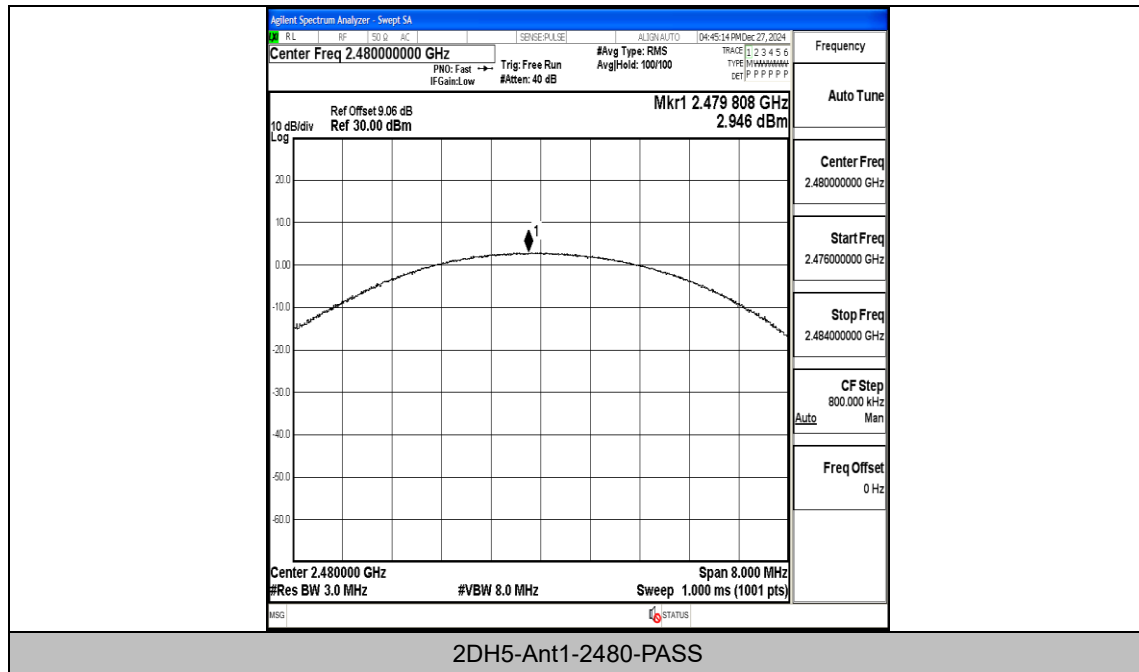
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	1.17	≤30	PASS
DH5	Ant1	2441	1.98	≤30	PASS
DH5	Ant1	2480	2.33	≤30	PASS
2DH5	Ant1	2402	1.86	≤20.97	PASS
2DH5	Ant1	2441	2.65	≤20.97	PASS
2DH5	Ant1	2480	2.95	≤20.97	PASS

Test Graphs





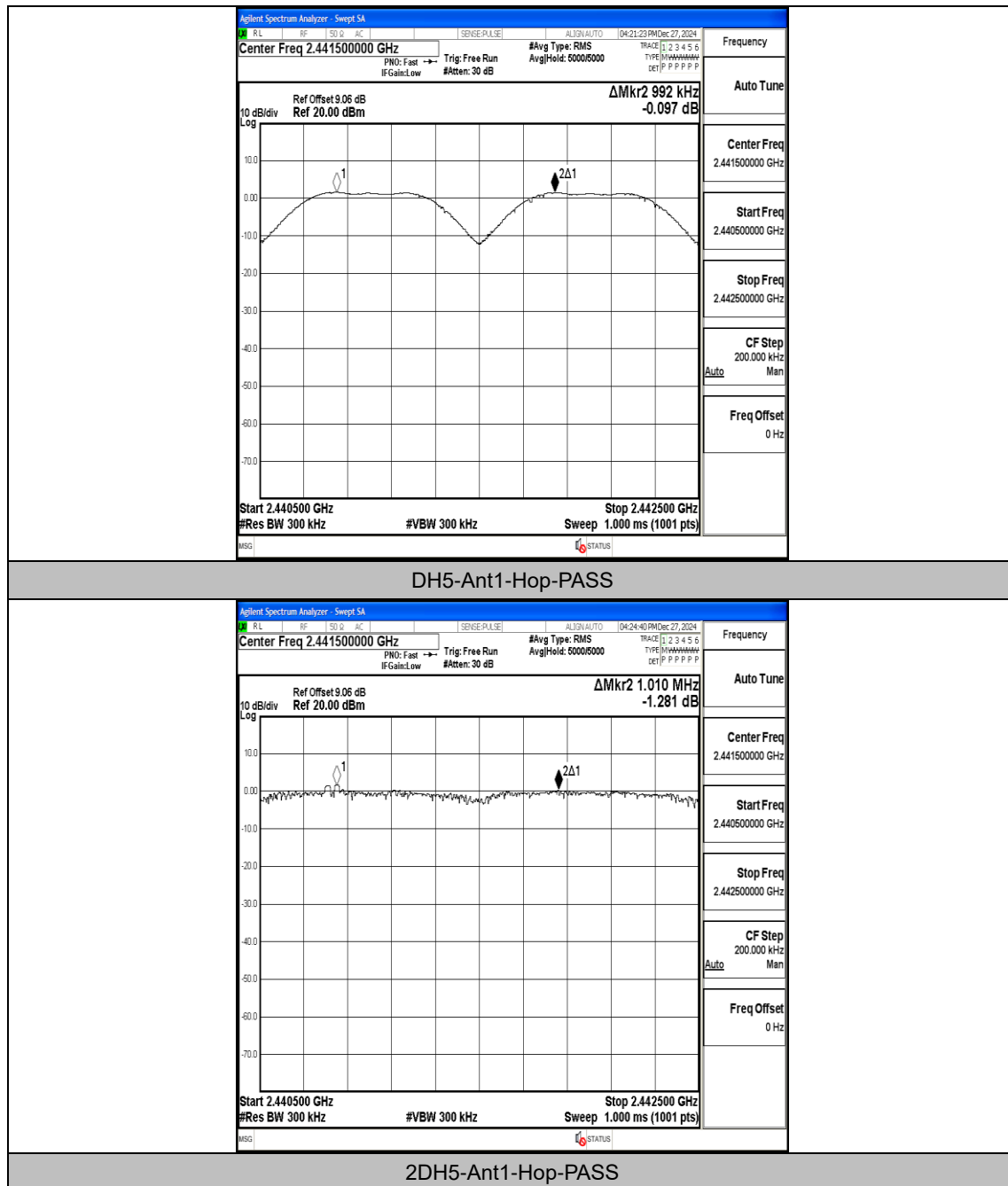


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.954	PASS
2DH5	Ant1	Hop	1.01	≥ 0.914	PASS

Test Graphs

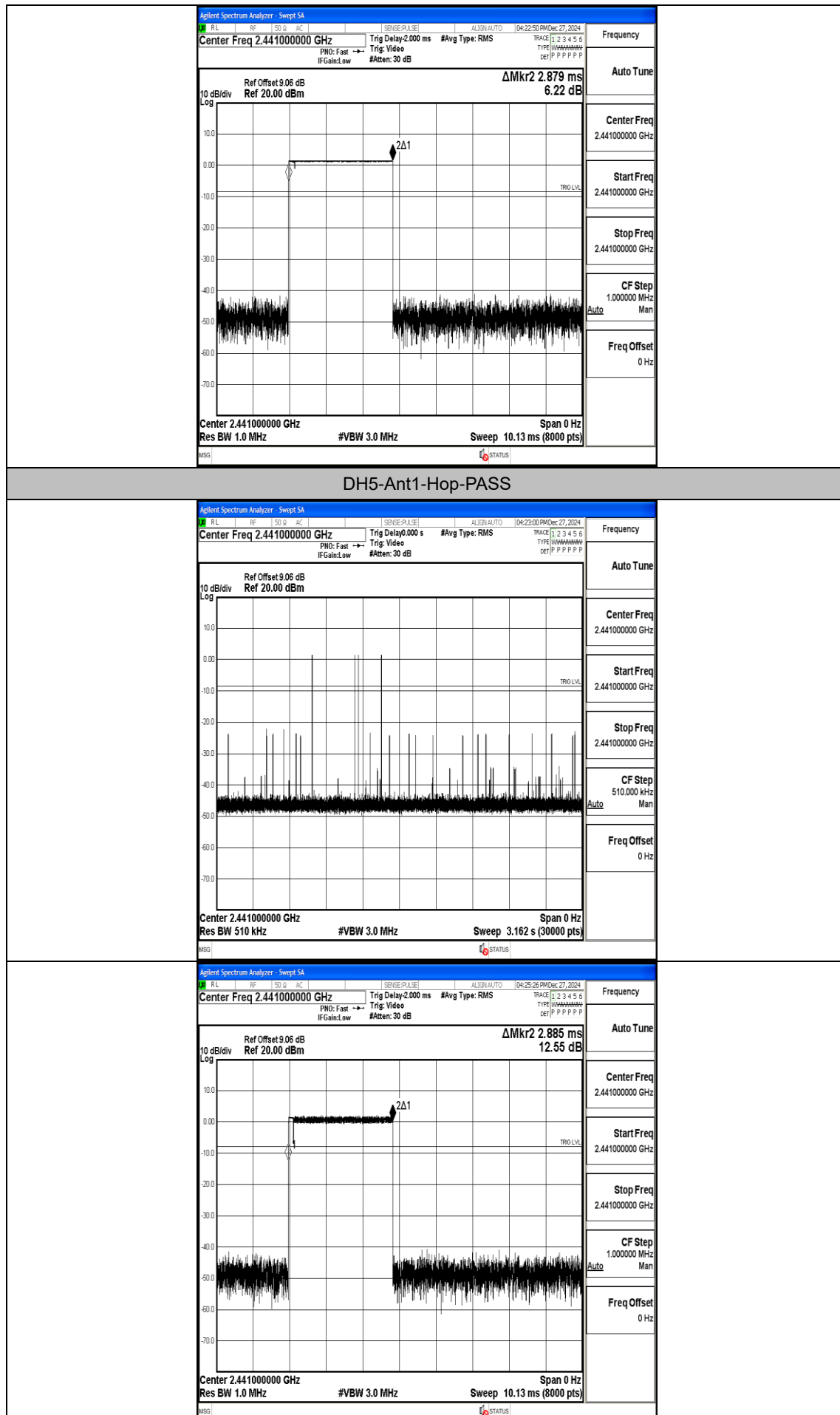


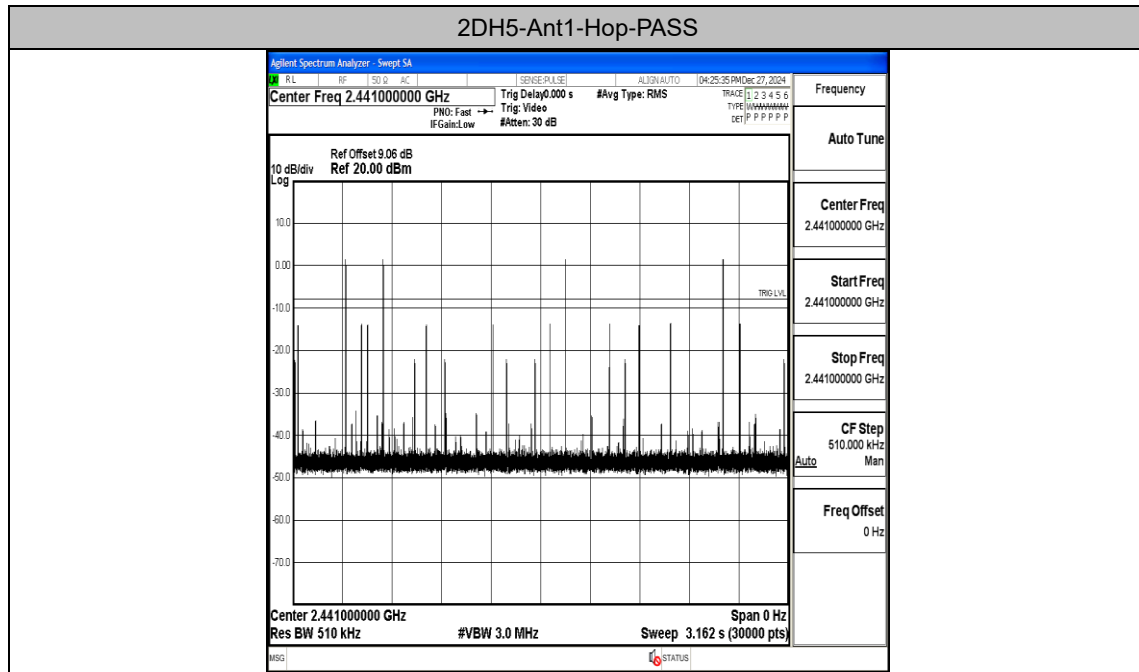
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.879	50	0.144	≤0.4	PASS
2DH5	Ant1	Hop	2.885	50	0.144	≤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

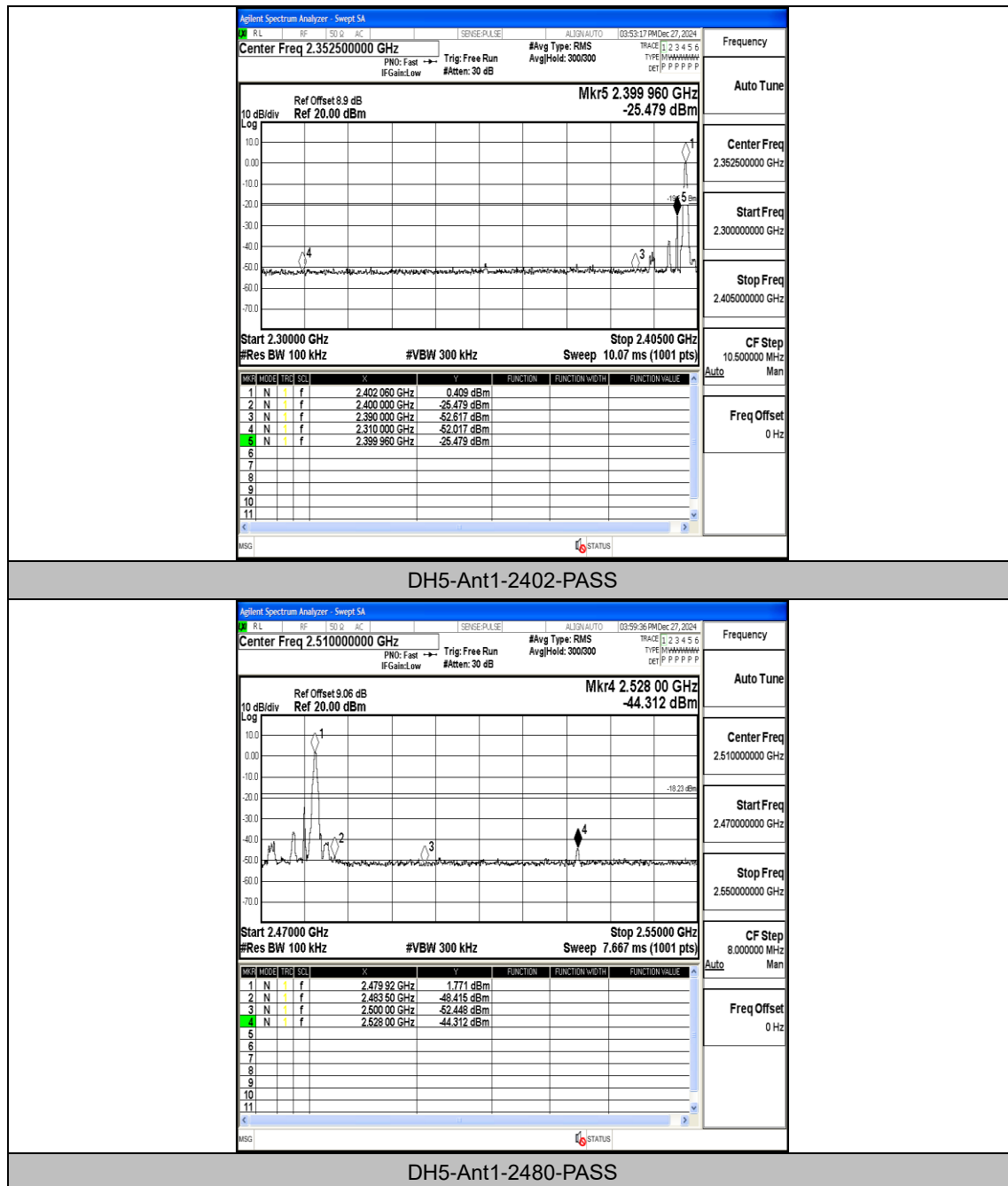


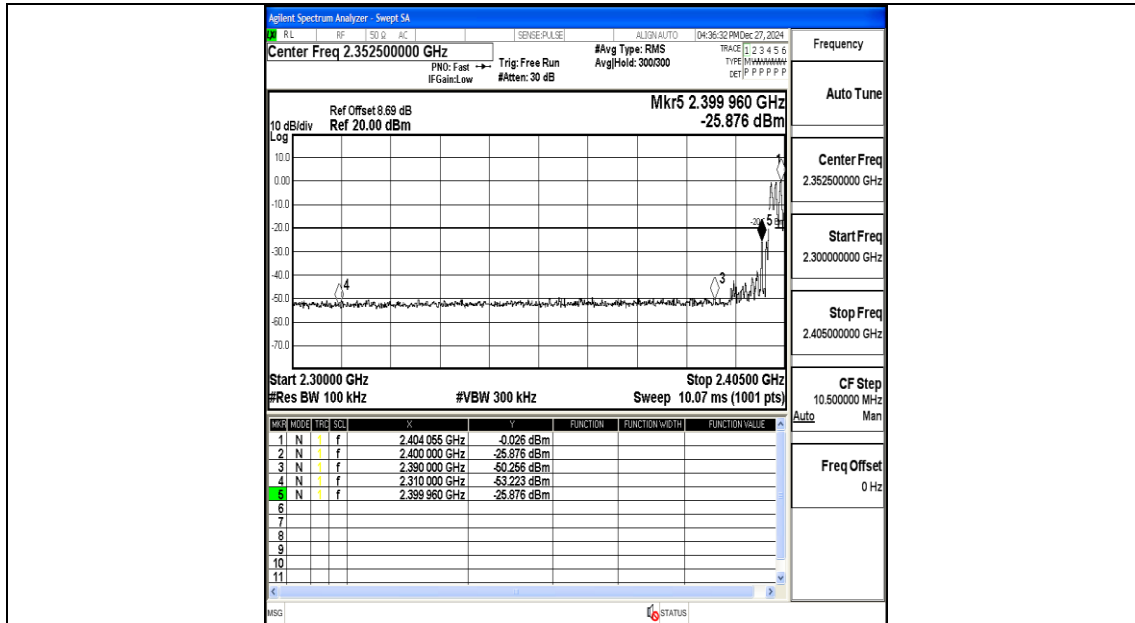
Appendix G: Band edge measurements

Test Result

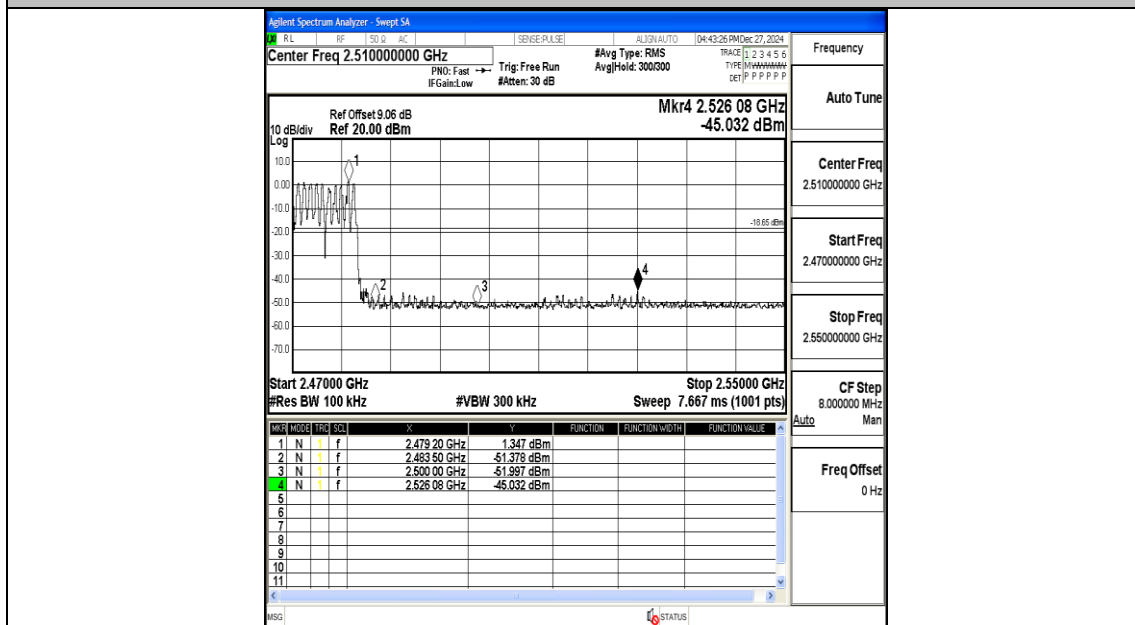
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.41	-25.48	≤-19.59	PASS
DH5	Ant1	High	2480	1.77	-44.31	≤-18.23	PASS
DH5	Ant1	Low	Hop_2402	-0.03	-25.88	≤-20.03	PASS
DH5	Ant1	High	Hop_2480	1.35	-45.03	≤-18.65	PASS
2DH5	Ant1	Low	2402	-2.81	-24.89	≤-22.81	PASS
2DH5	Ant1	High	2480	-0.44	-44.06	≤-20.44	PASS
2DH5	Ant1	Low	Hop_2402	-4.35	-25.53	≤-24.35	PASS
2DH5	Ant1	High	Hop_2480	-1.63	-46.36	≤-21.63	PASS

Test Graphs

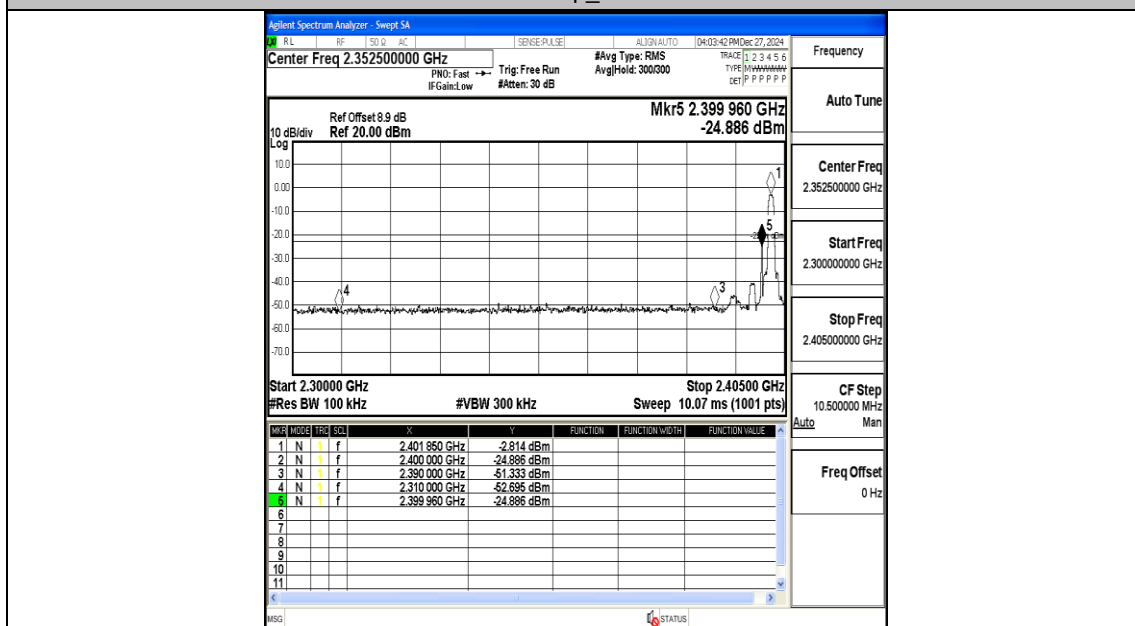




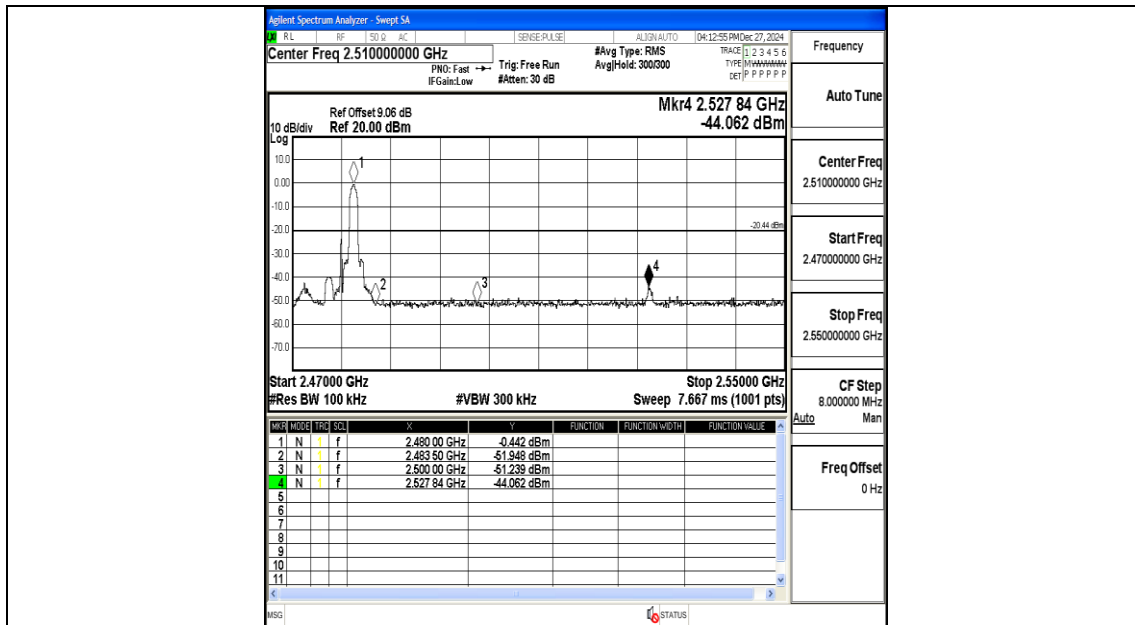
DH5-Ant1-Hop_2402-PASS



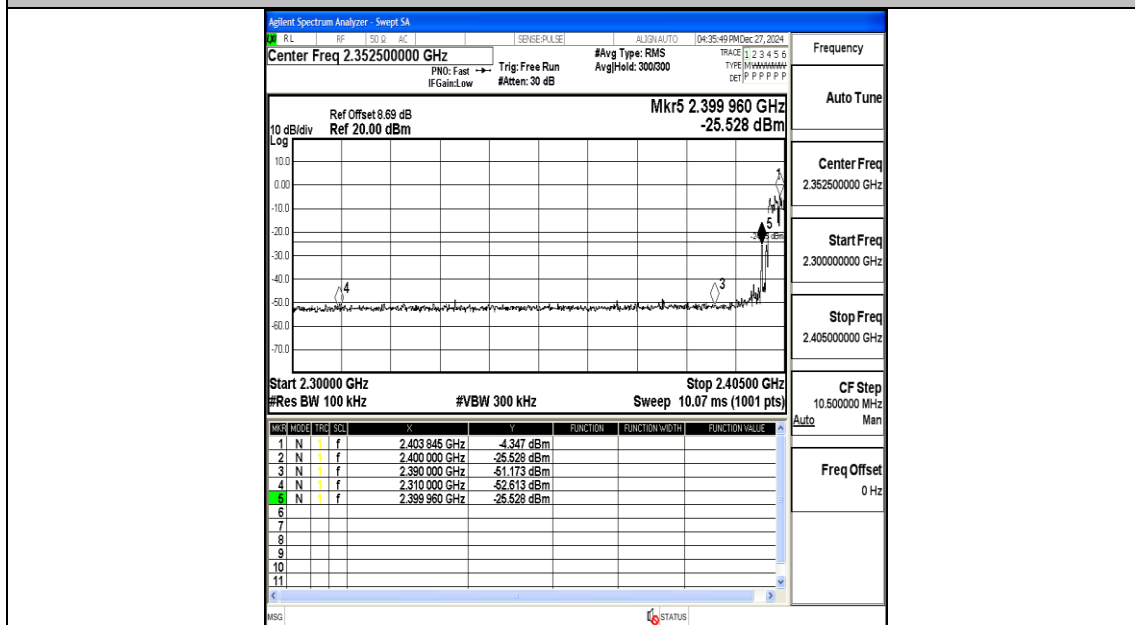
DH5-Ant1-Hop_2480-PASS



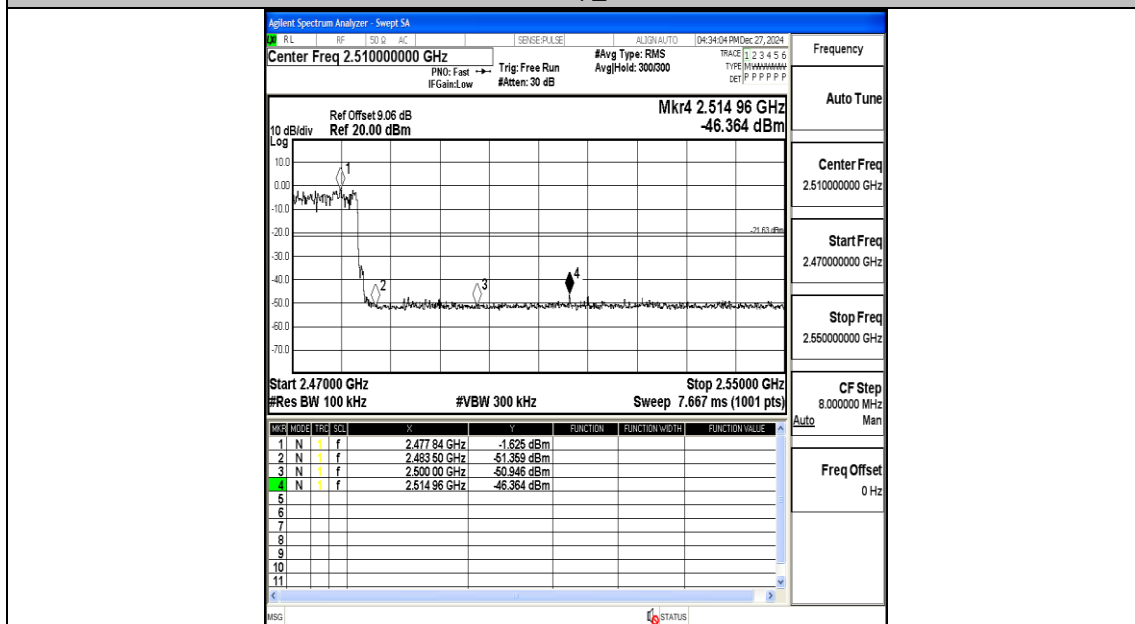
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



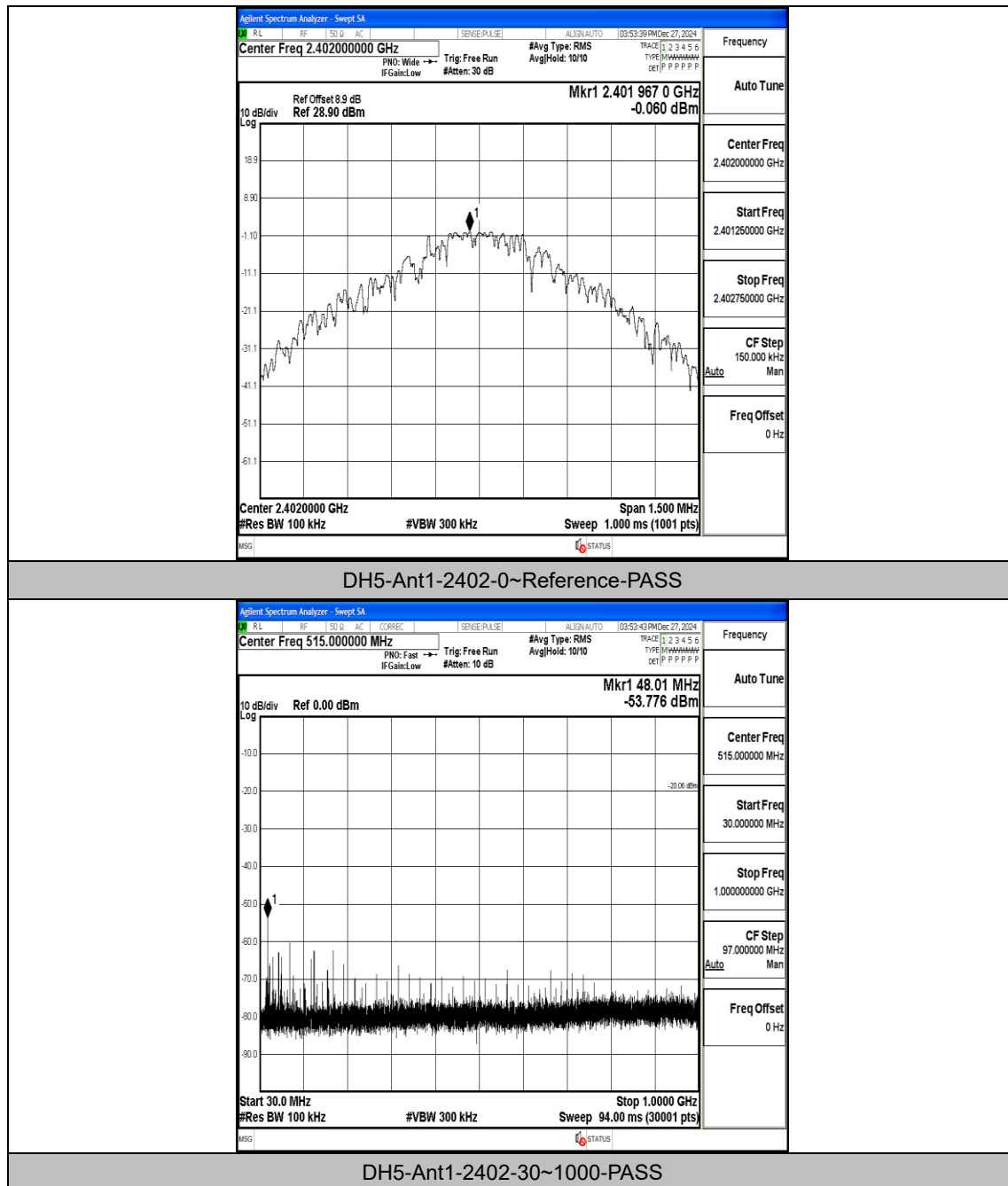
2DH5-Ant1-Hop_2480-PASS

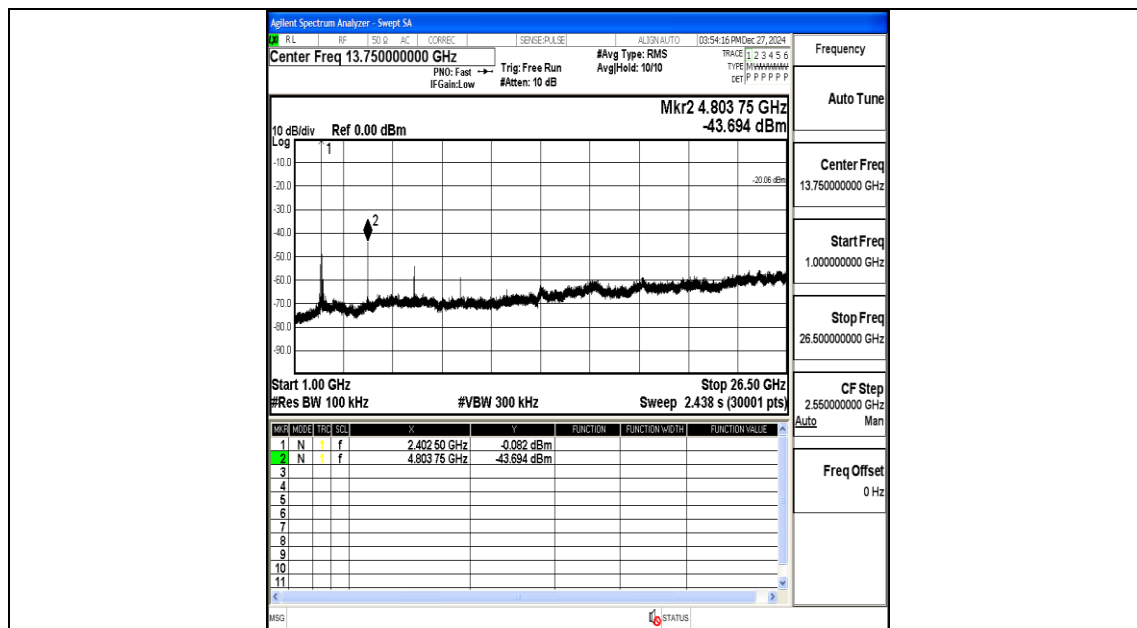
Appendix H: Conducted Spurious Emission

Test Result

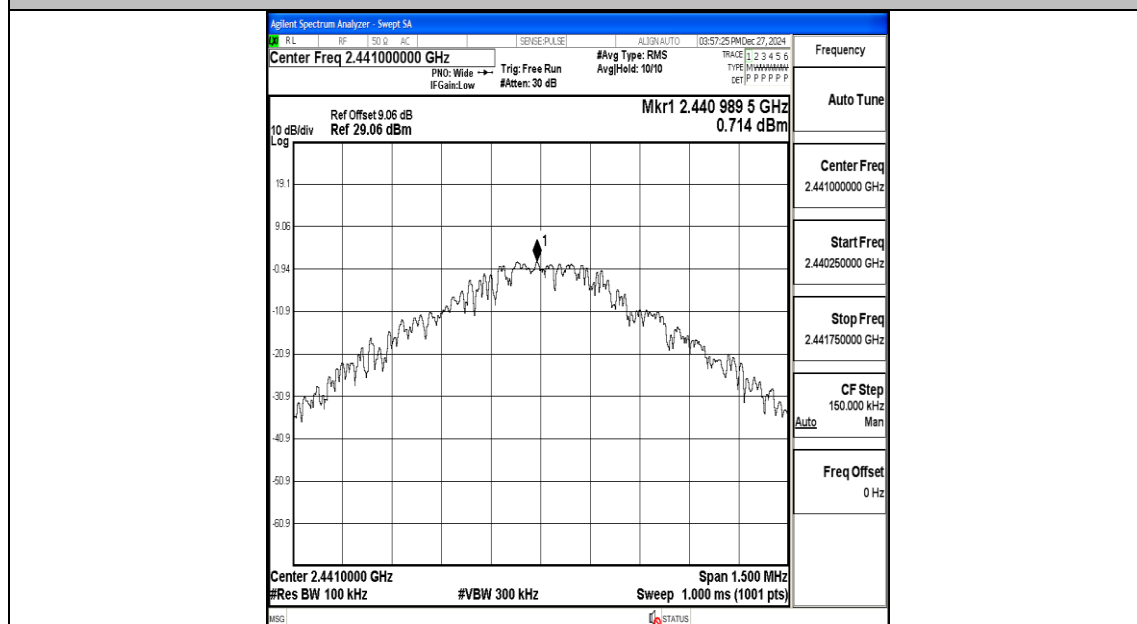
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.06	-0.06	---	PASS
DH5	Ant1	2402	30~1000	-0.06	-53.78	≤-20.06	PASS
DH5	Ant1	2402	1000~26500	-0.06	-43.69	≤-20.06	PASS
DH5	Ant1	2441	0~Reference	0.71	0.71	---	PASS
DH5	Ant1	2441	30~1000	0.71	-53.33	≤-19.29	PASS
DH5	Ant1	2441	1000~26500	0.71	-43.16	≤-19.29	PASS
DH5	Ant1	2480	0~Reference	1.13	1.13	---	PASS
DH5	Ant1	2480	30~1000	1.13	-52.91	≤-18.87	PASS
DH5	Ant1	2480	1000~26500	1.13	-43.77	≤-18.87	PASS
2DH5	Ant1	2402	0~Reference	-2.99	-2.99	---	PASS
2DH5	Ant1	2402	30~1000	-2.99	-53.63	≤-22.99	PASS
2DH5	Ant1	2402	1000~26500	-2.99	-45.28	≤-22.99	PASS
2DH5	Ant1	2441	0~Reference	1.21	1.21	---	PASS
2DH5	Ant1	2441	30~1000	1.21	-53.39	≤-18.79	PASS
2DH5	Ant1	2441	1000~26500	1.21	-40.87	≤-18.79	PASS
2DH5	Ant1	2480	0~Reference	-2.21	-2.21	---	PASS
2DH5	Ant1	2480	30~1000	-2.21	-53.17	≤-22.21	PASS
2DH5	Ant1	2480	1000~26500	-2.21	-45.56	≤-22.21	PASS

Test Graphs

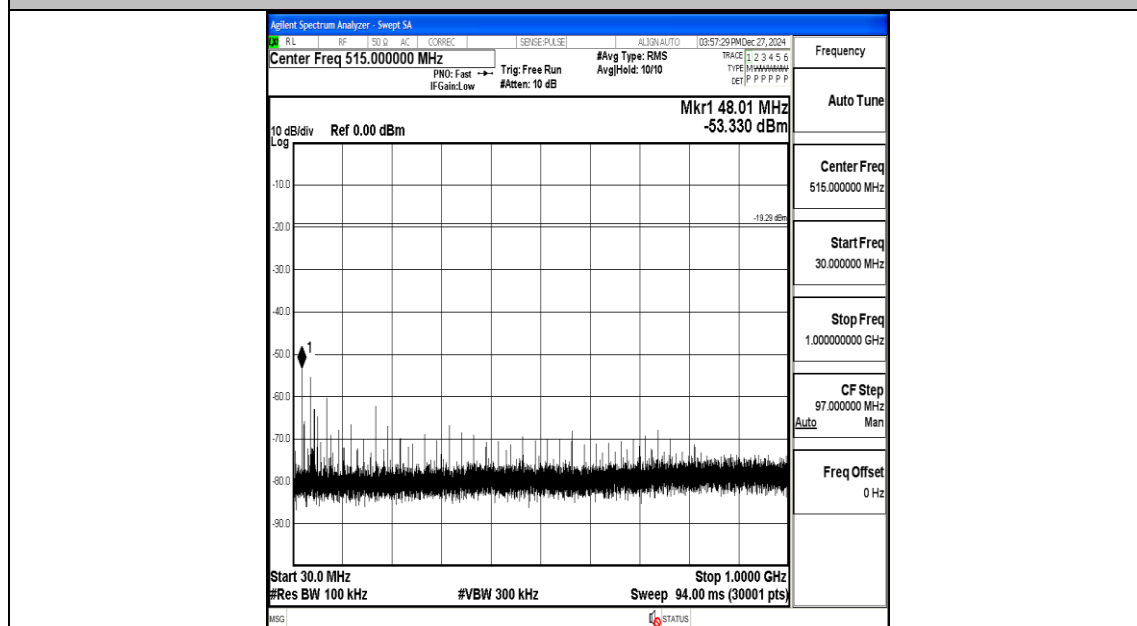




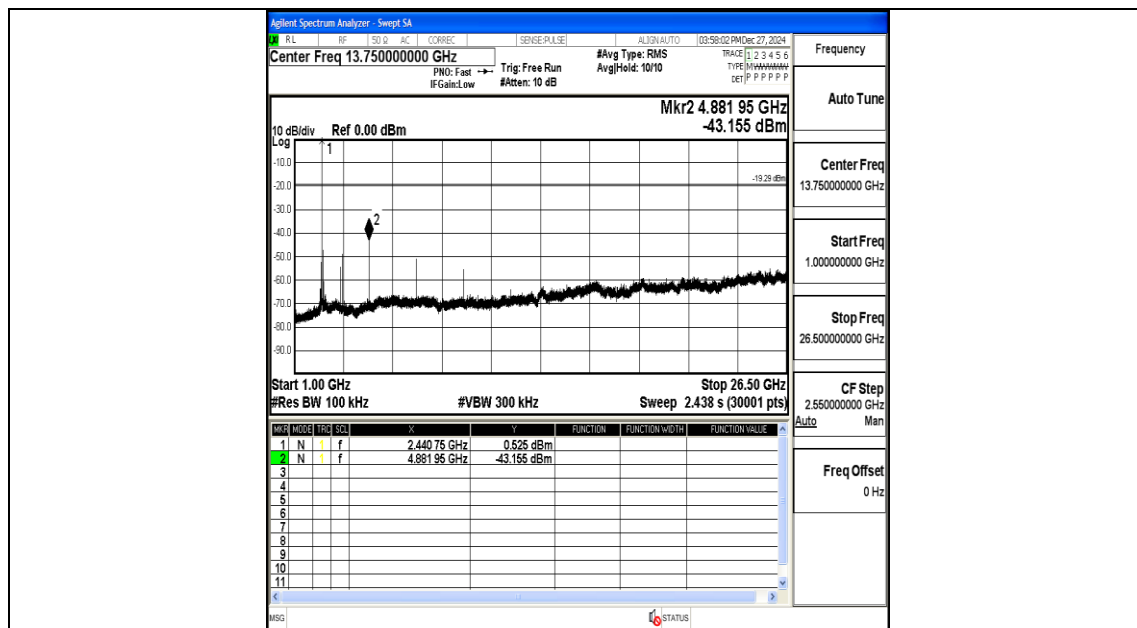
DH5-Ant1-2402-1000~26500-PASS



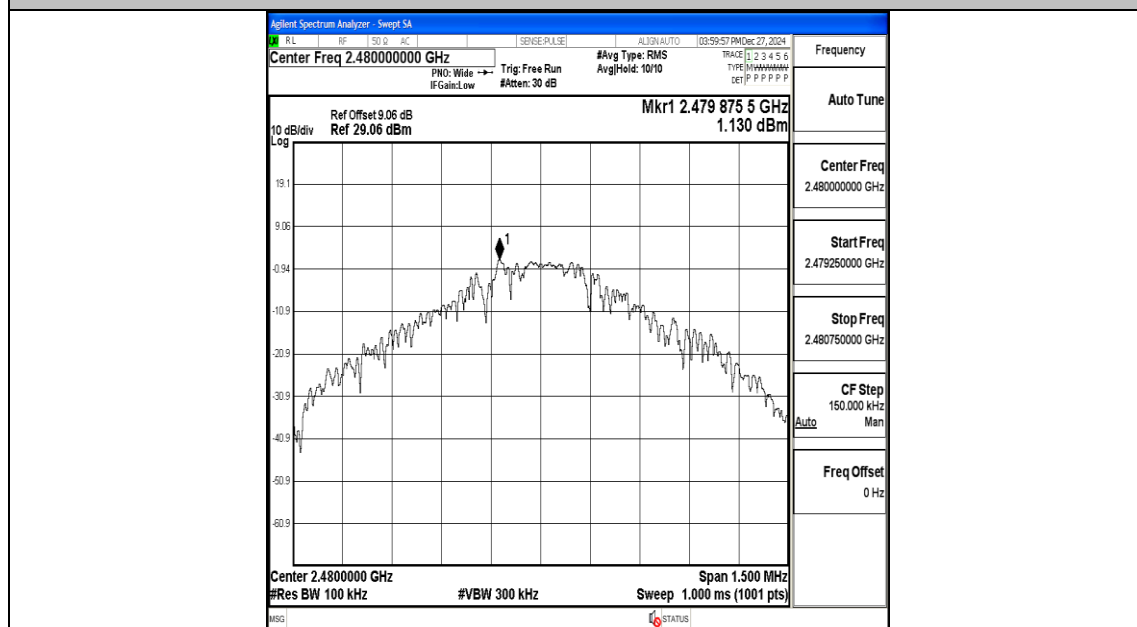
DH5-Ant1-2441-0~Reference-PASS



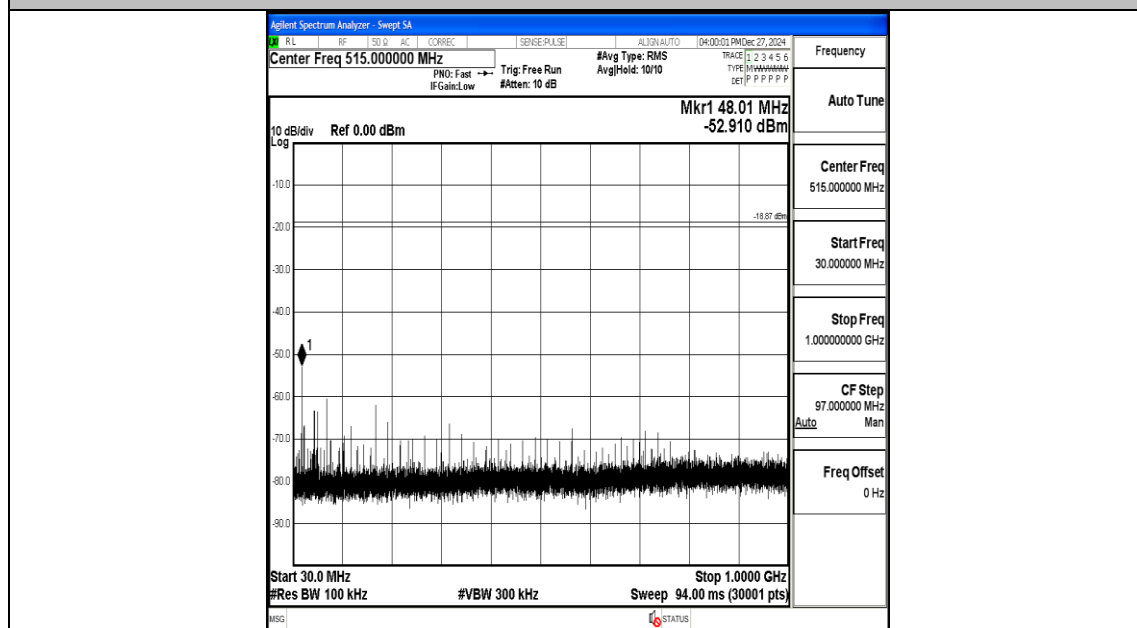
DH5-Ant1-2441-30~1000-PASS



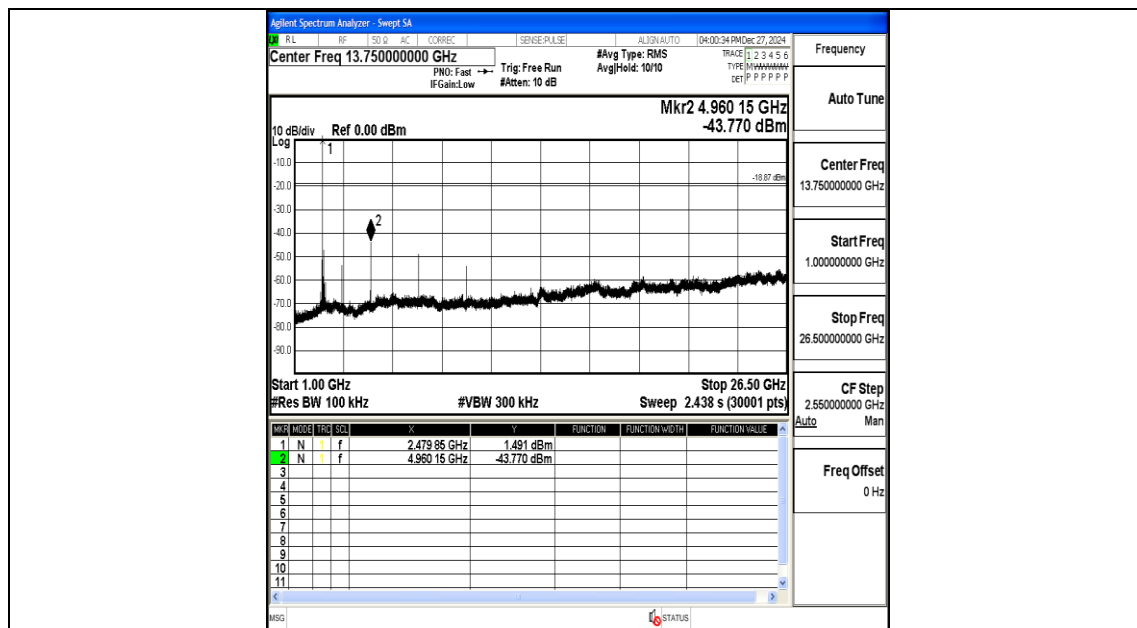
DH5-Ant1-2441-1000~26500-PASS



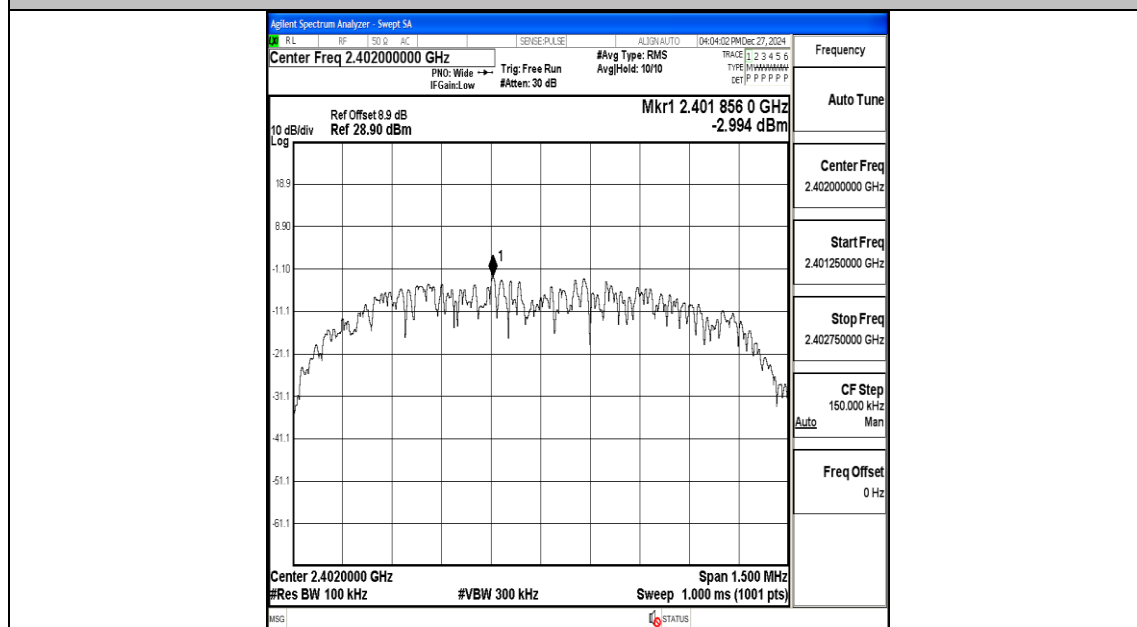
DH5-Ant1-2480-0~Reference-PASS



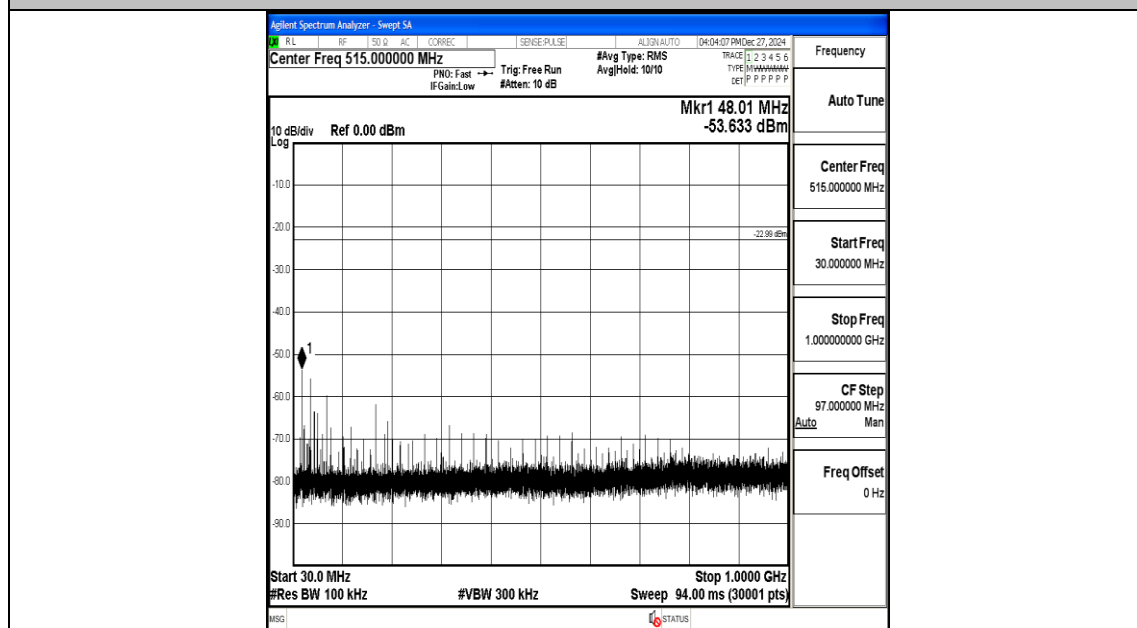
DH5-Ant1-2480-30~1000-PASS



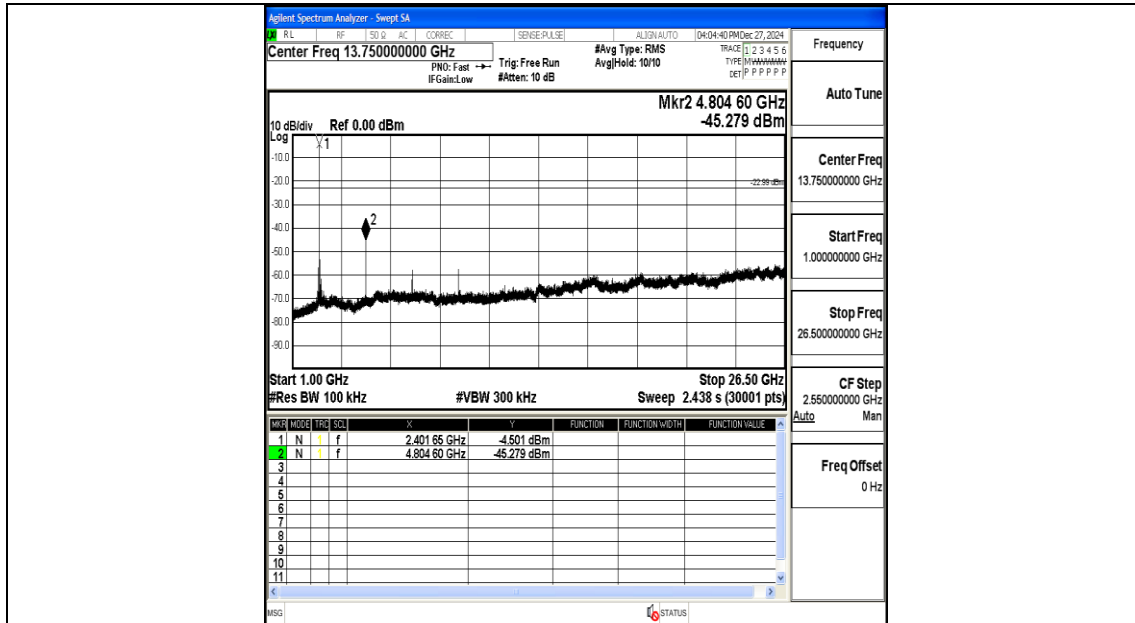
DH5-Ant1-2480-1000~26500-PASS



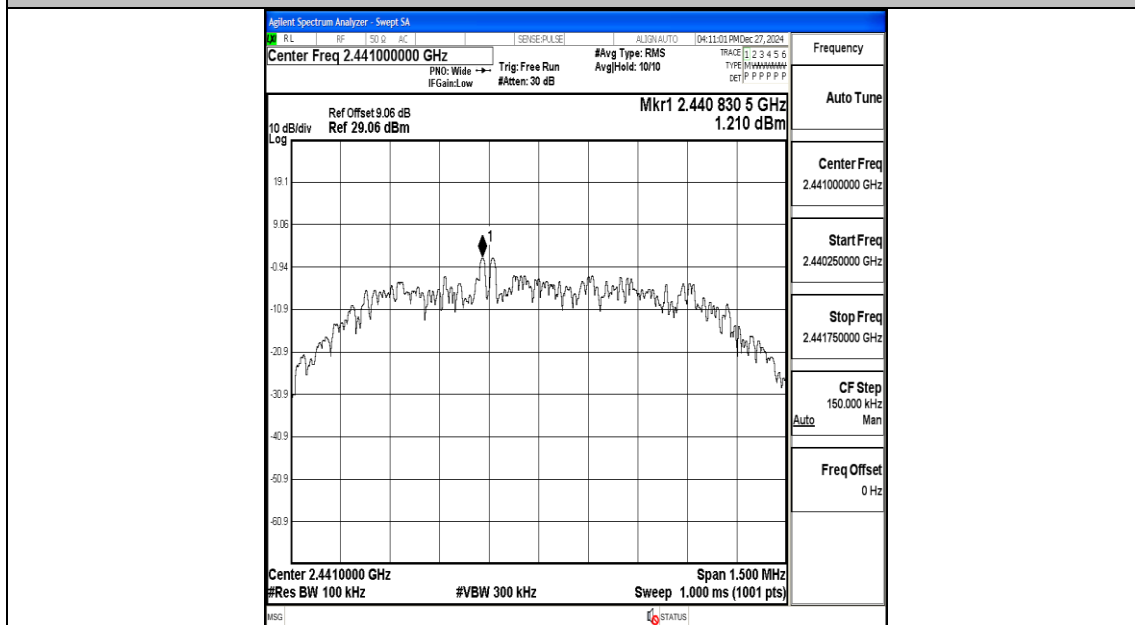
2DH5-Ant1-2402-0~Reference-PASS



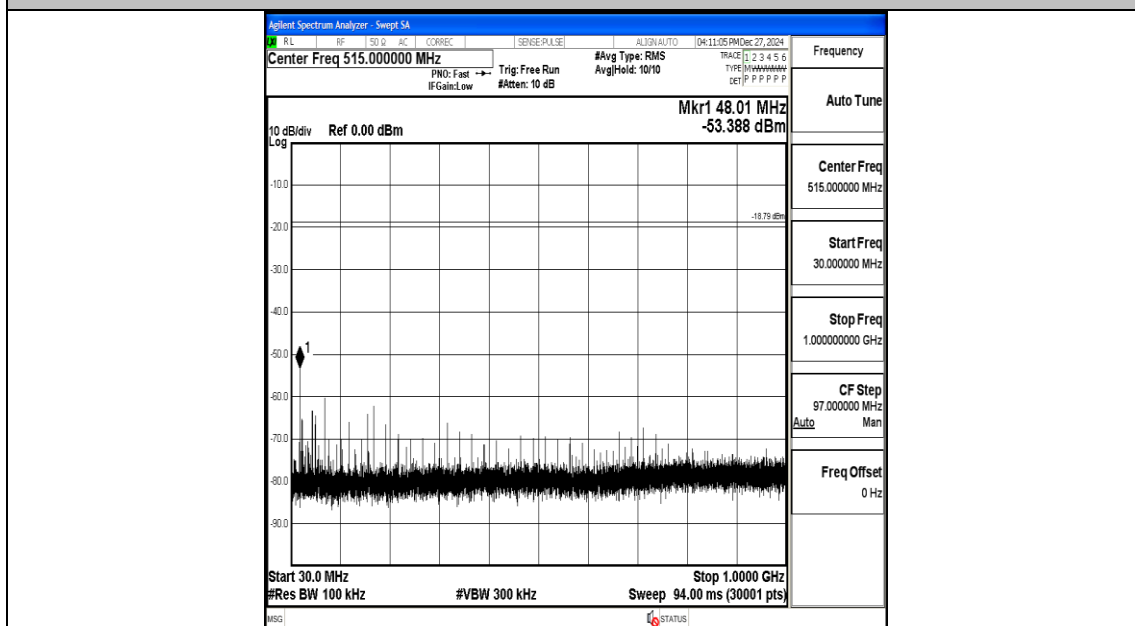
2DH5-Ant1-2402-30~1000-PASS



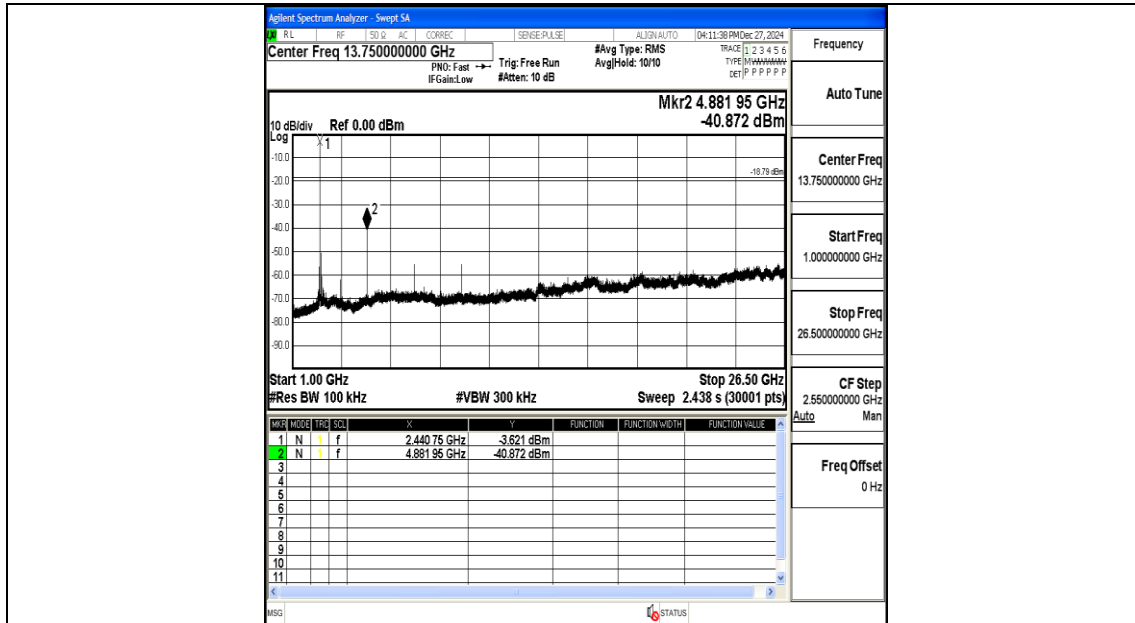
2DH5-Ant1-2402-1000~26500-PASS



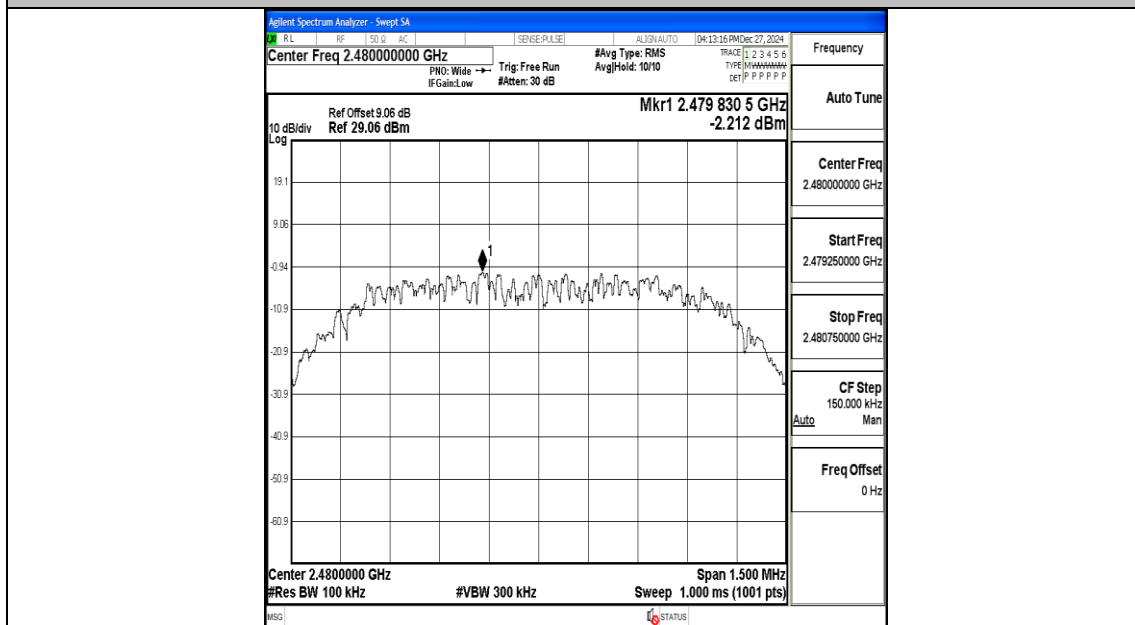
2DH5-Ant1-2441-0~Reference-PASS



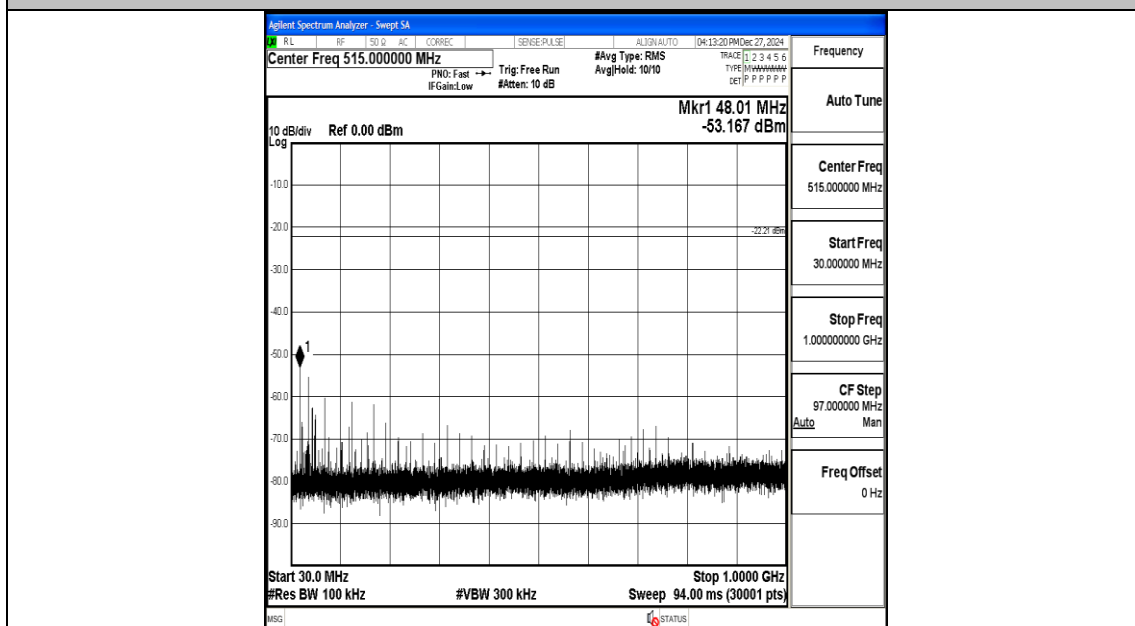
2DH5-Ant1-2441-30~1000-PASS



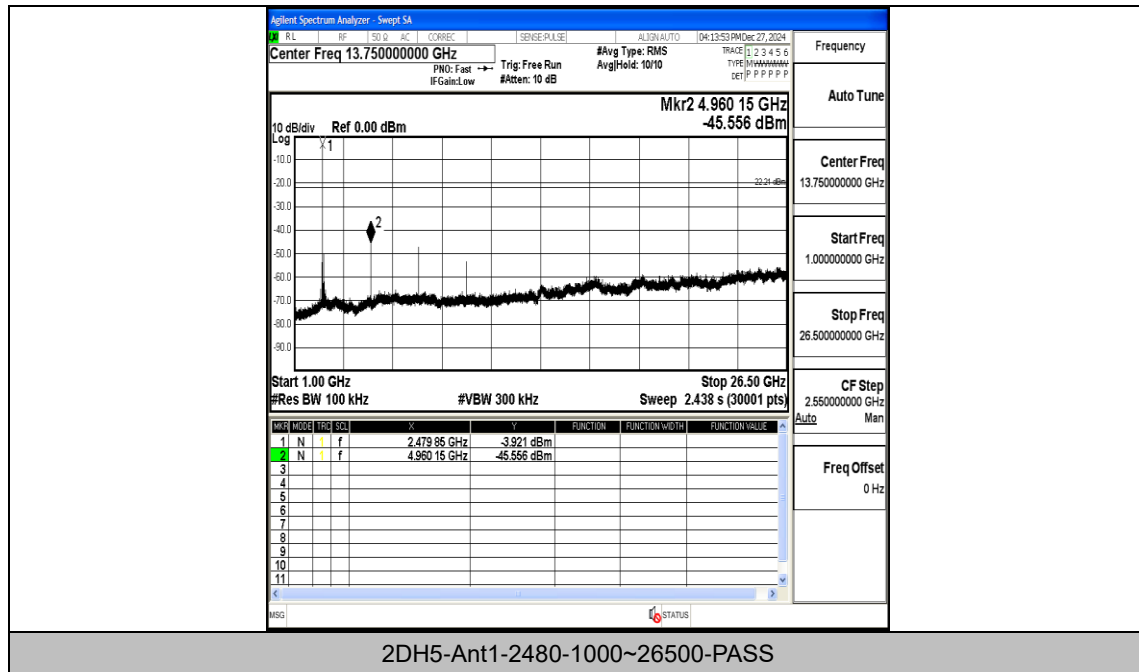
2DH5-Ant1-2441-1000~26500-PASS



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	2.88	6.25	46.08	3.36
DH5	Ant1	2441	2.88	6.25	46.08	3.36
DH5	Ant1	2480	2.88	6.25	46.08	3.36
2DH5	Ant1	2402	2.89	6.25	46.24	3.35
2DH5	Ant1	2441	2.88	6.25	46.08	3.36
2DH5	Ant1	2480	2.88	6.25	46.08	3.36

Test Graphs

