

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

Product Name: Bluetooth Speaker

Trade Mark: BarbetSound

Test Model: RS11

FCC ID: 2ATOY-RS11

Environmental Conditions

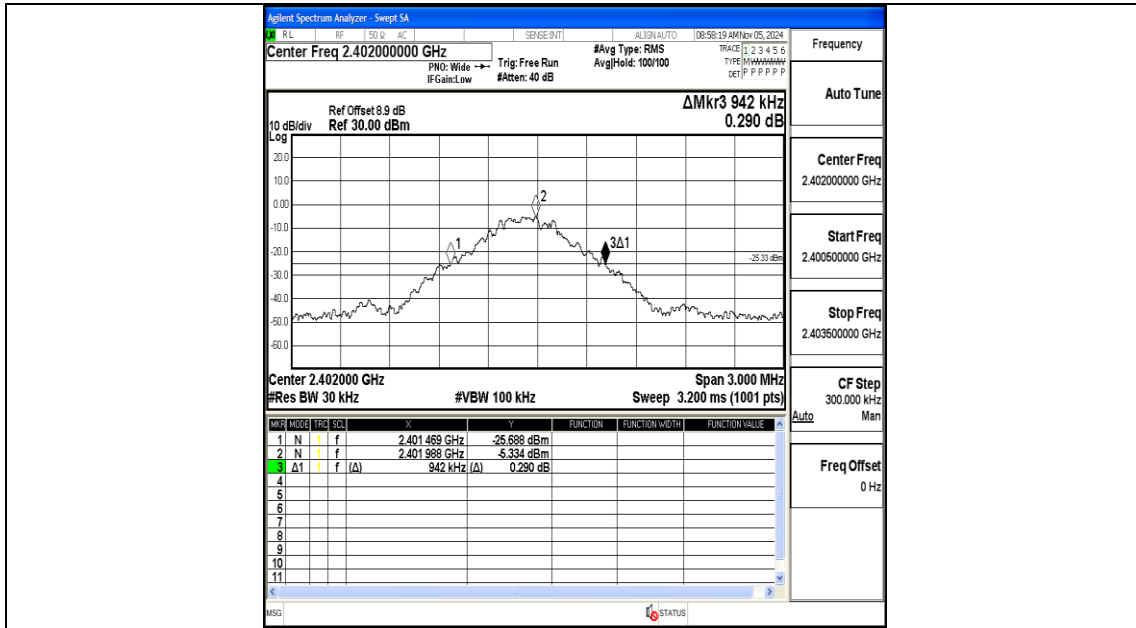
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

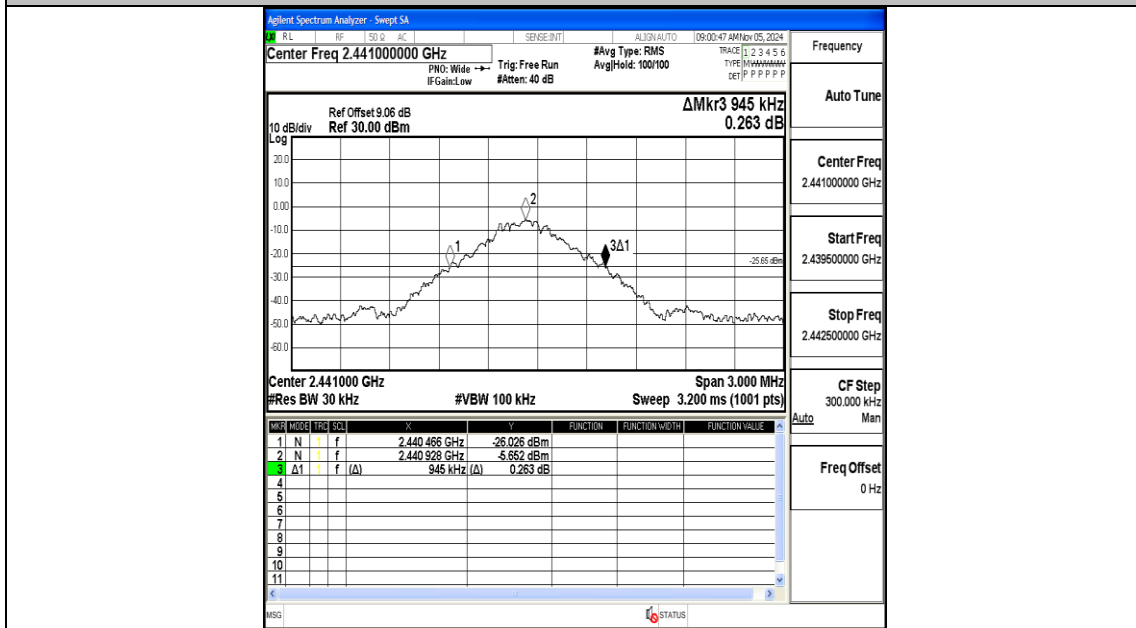
Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.942	2401.469	2402.411	---	---
DH5	Ant1	2441	0.945	2440.466	2441.411	---	---
DH5	Ant1	2480	0.945	2479.466	2480.411	---	---
2DH5	Ant1	2402	1.383	2401.241	2402.624	---	---
2DH5	Ant1	2441	1.386	2440.232	2441.618	---	---
2DH5	Ant1	2480	1.377	2479.244	2480.621	---	---

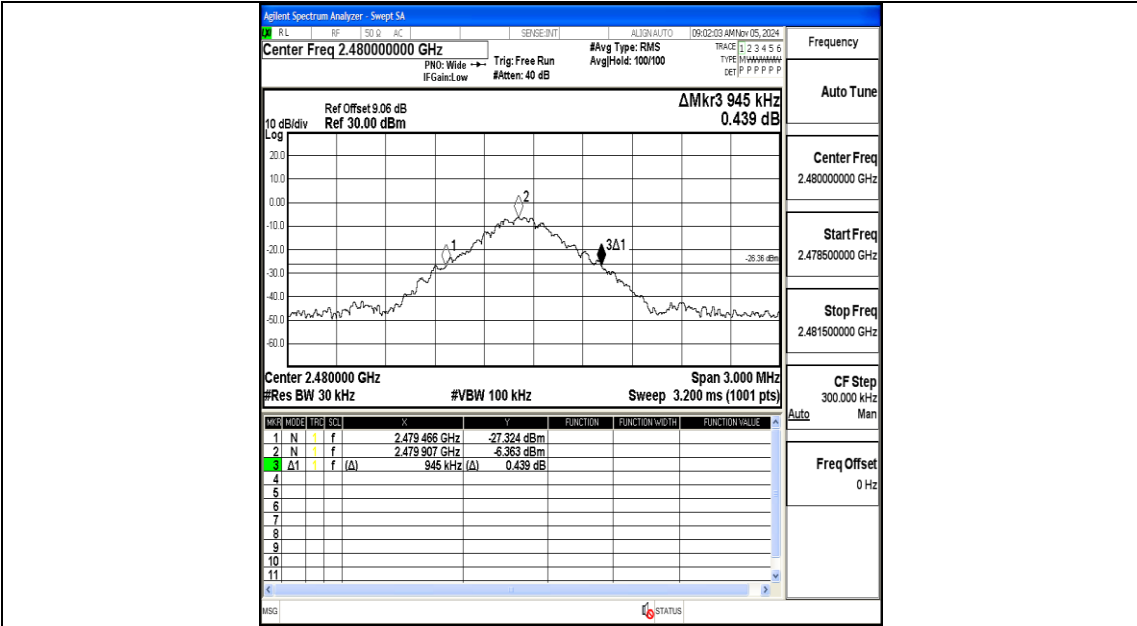
Test Graphs



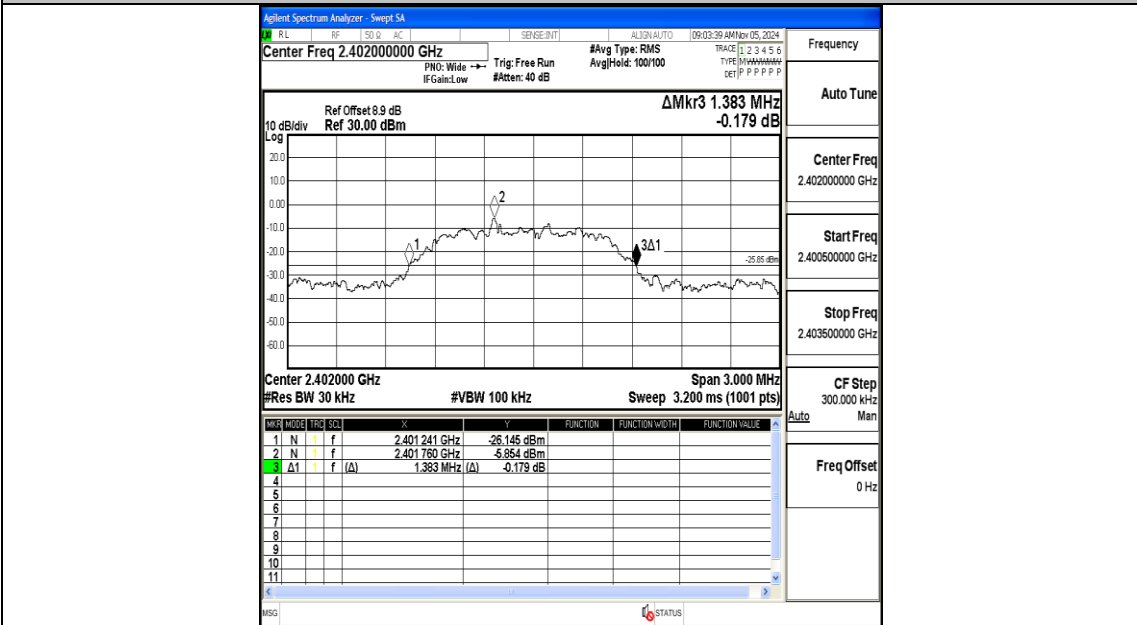
DH5-Ant1-2402



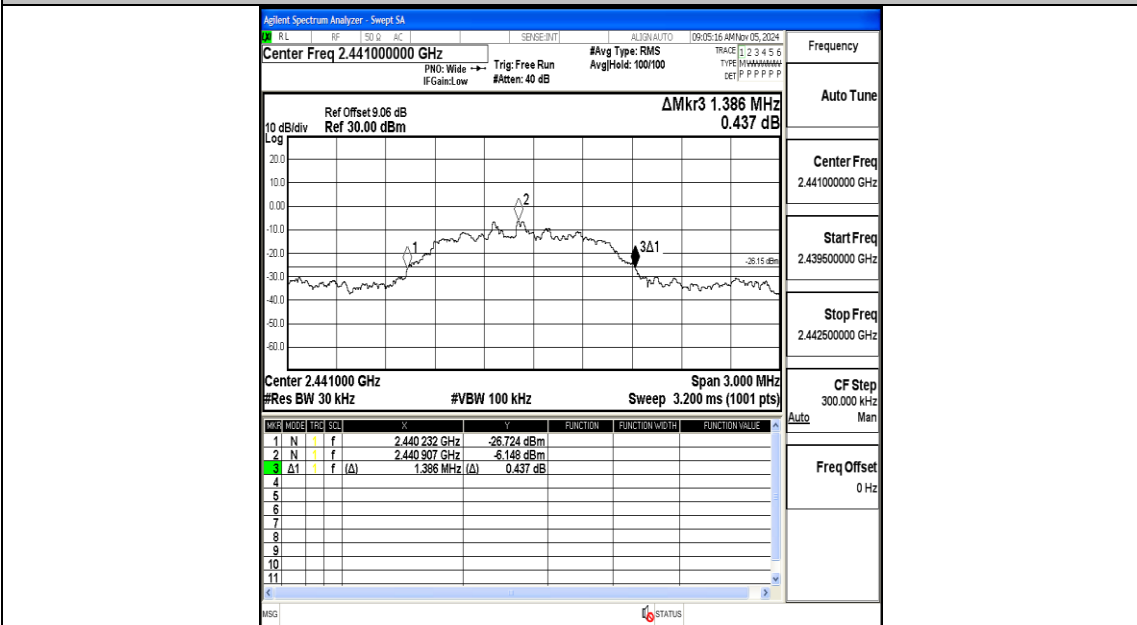
DH5-Ant1-2441



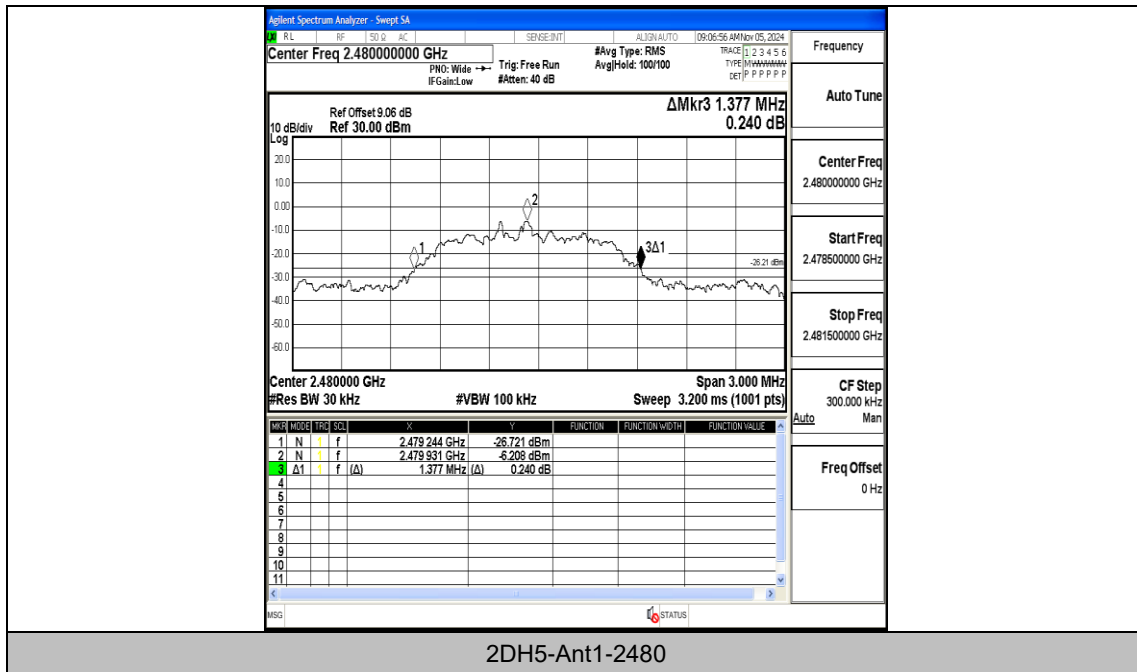
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

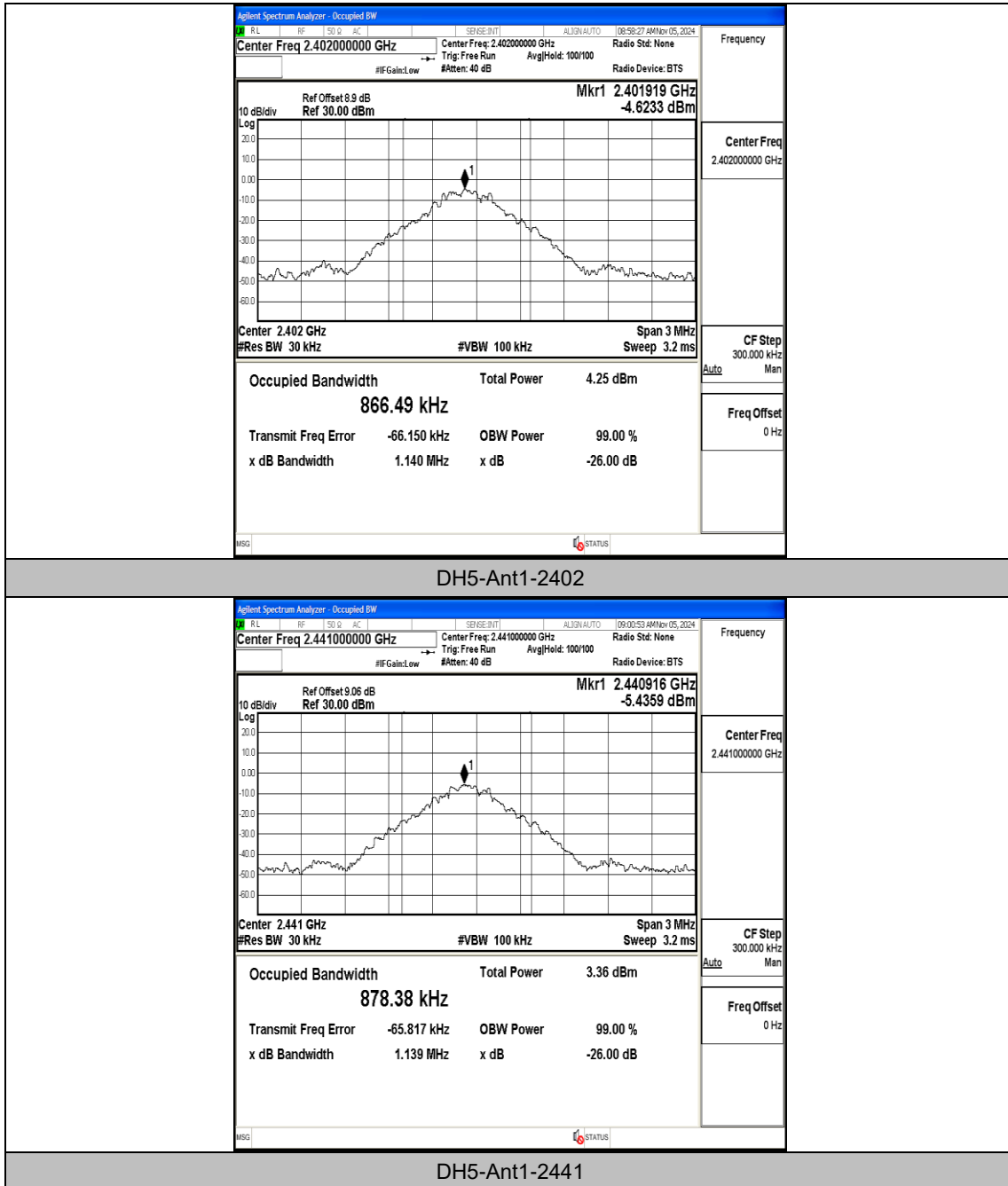


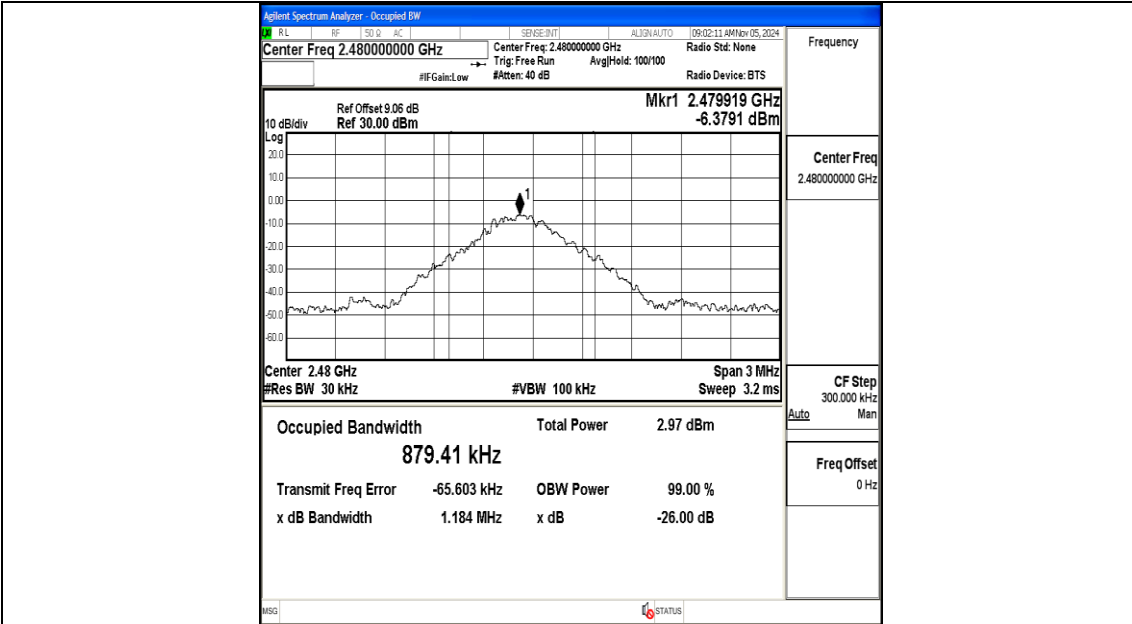
Appendix B: Occupied Channel Bandwidth

Test Result

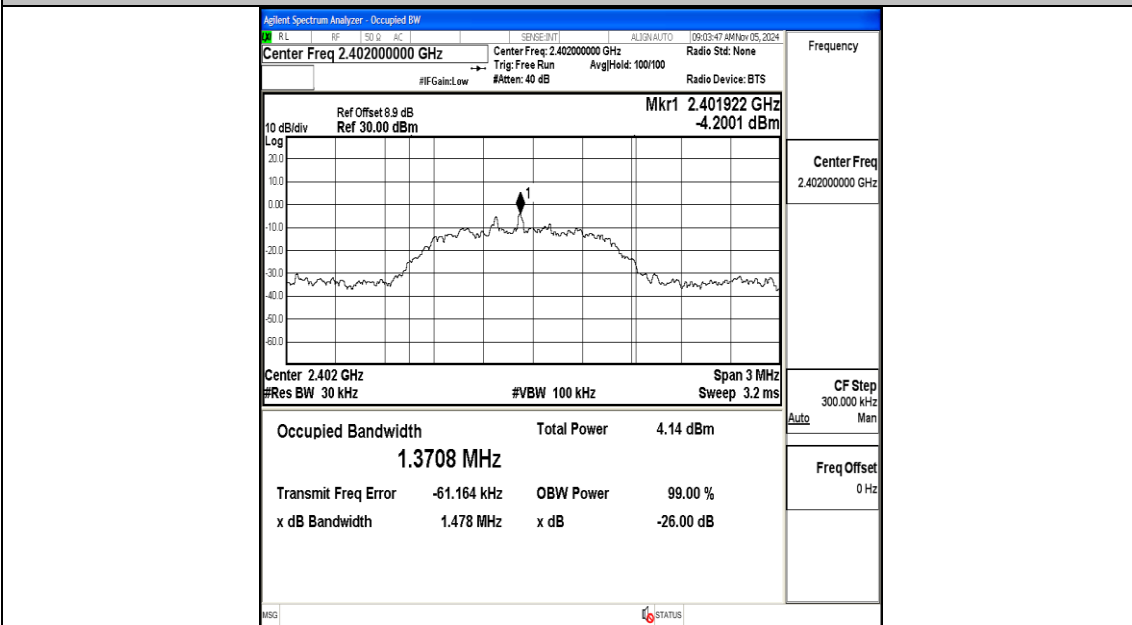
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.86649	2401.5006	2402.3671	---	---
DH5	Ant1	2441	0.87838	2440.4950	2441.3734	---	---
DH5	Ant1	2480	0.87941	2479.4947	2480.3741	---	---
2DH5	Ant1	2402	1.3708	2401.2534	2402.6242	---	---
2DH5	Ant1	2441	1.5508	2440.2029	2441.7537	---	---
2DH5	Ant1	2480	1.5597	2479.2054	2480.7651	---	---

Test Graphs

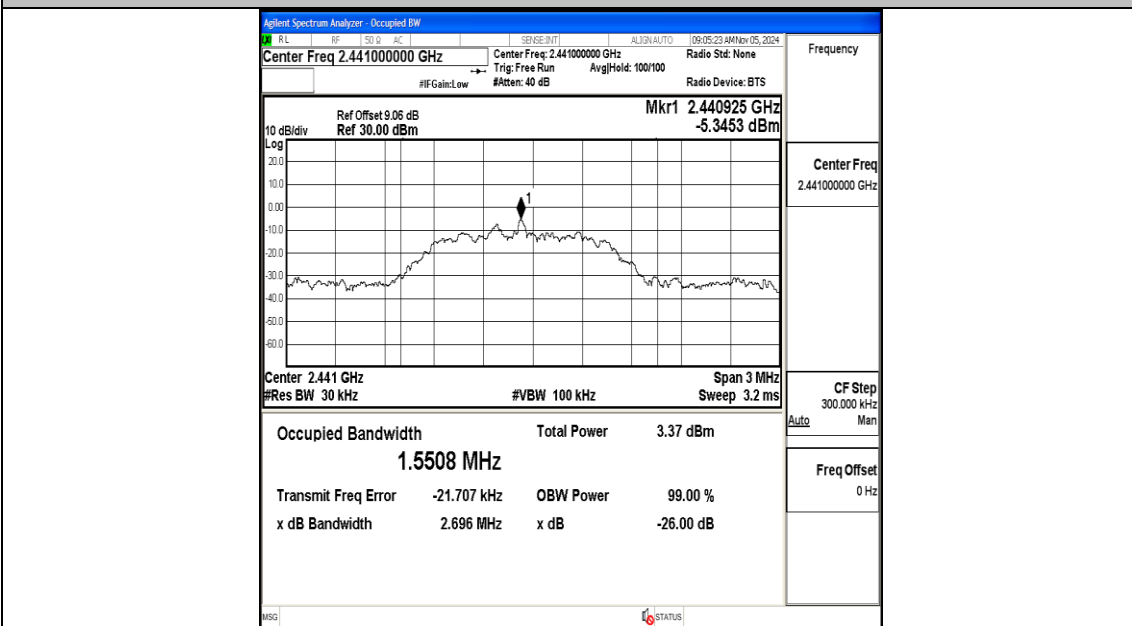




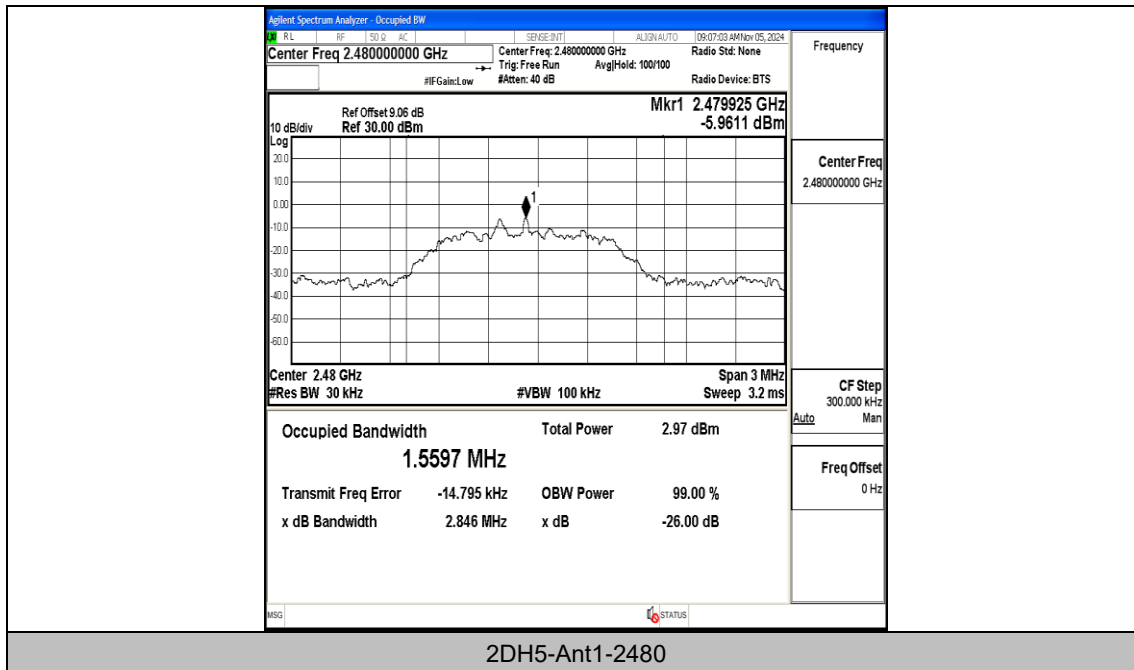
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

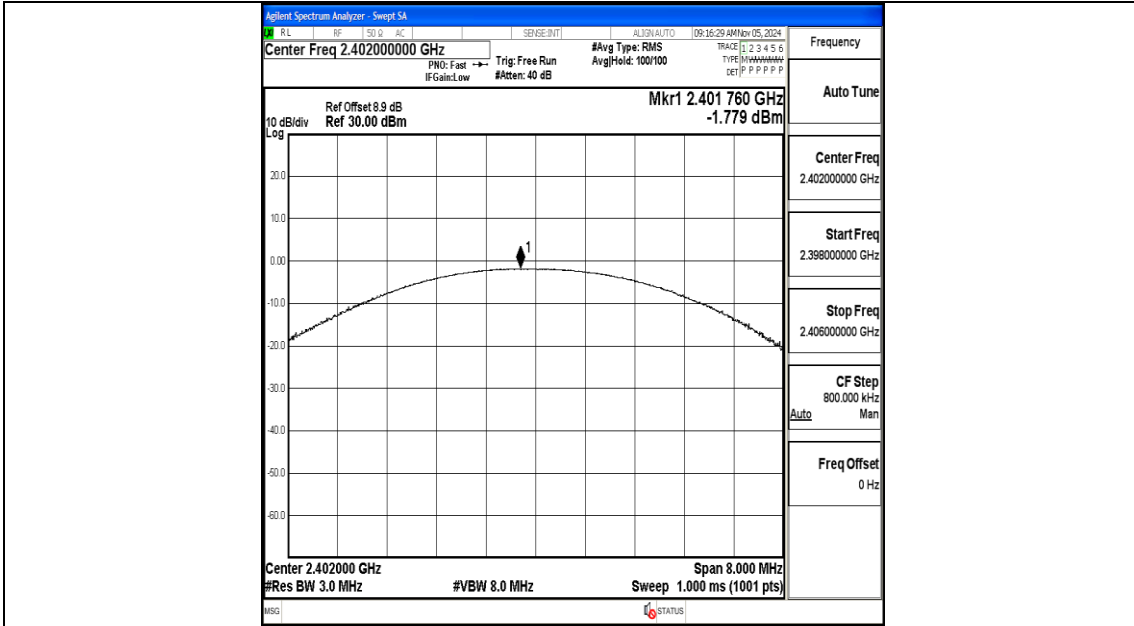


Appendix C: Maximum peak conducted output power

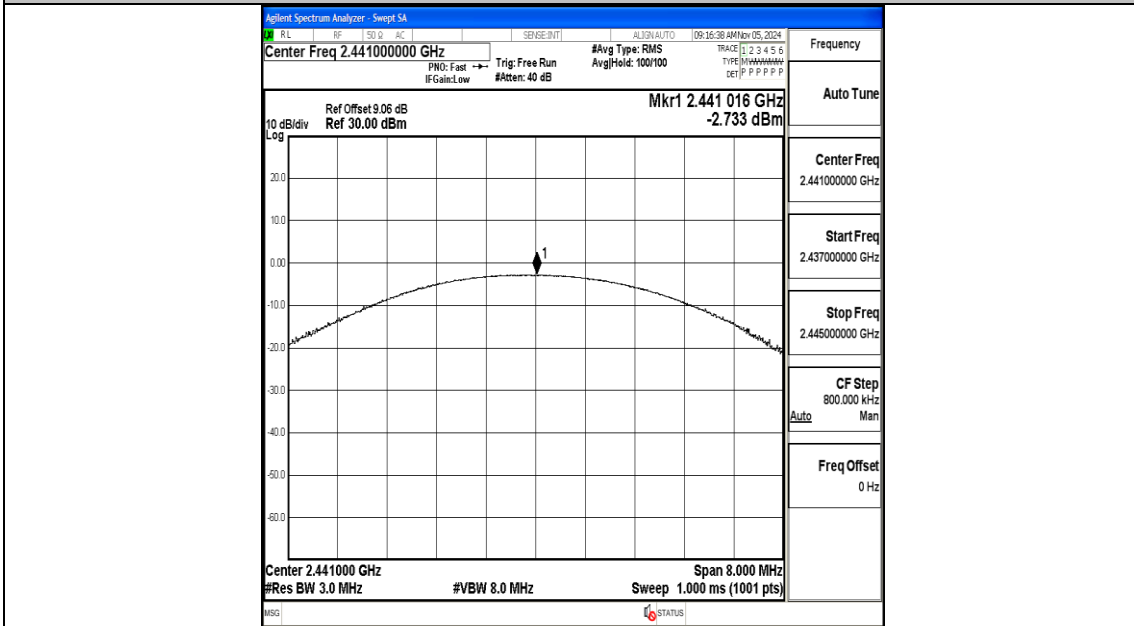
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-1.78	≤30	PASS
DH5	Ant1	2441	-2.73	≤30	PASS
DH5	Ant1	2480	-3.18	≤30	PASS
2DH5	Ant1	2402	-1.69	≤20.97	PASS
2DH5	Ant1	2441	-2.72	≤20.97	PASS
2DH5	Ant1	2480	-3.18	≤20.97	PASS

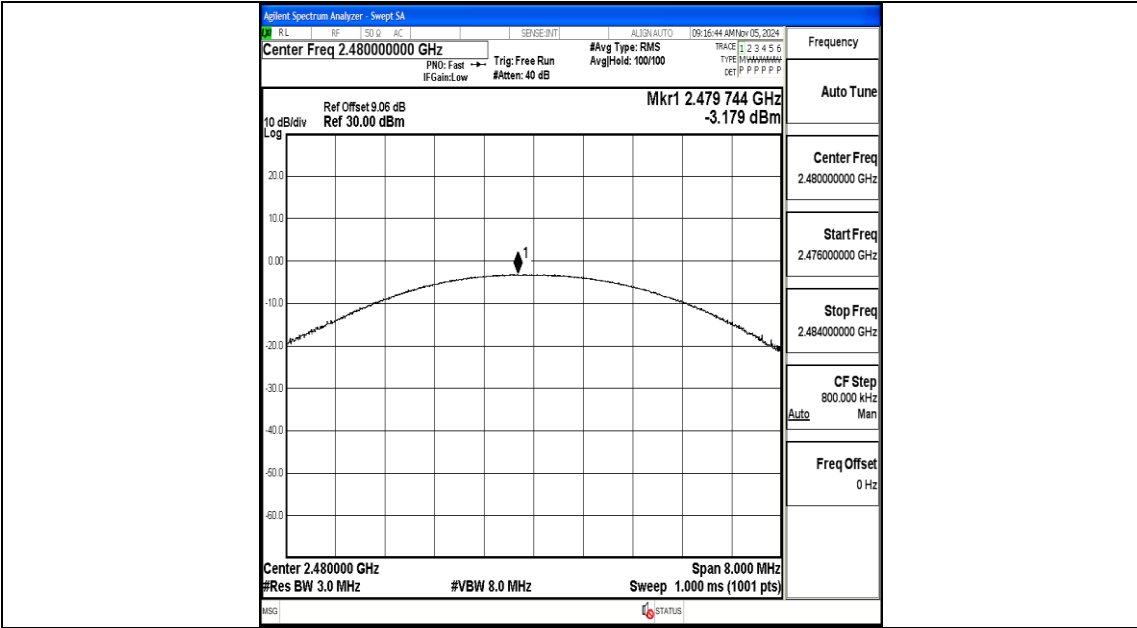
Test Graphs



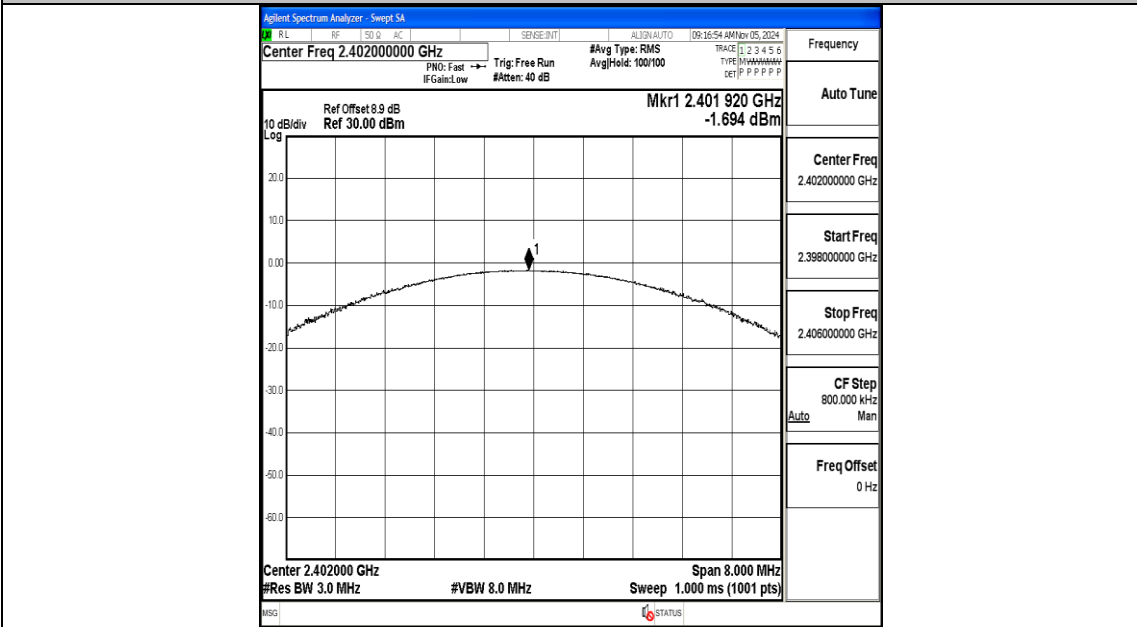
DH5-Ant1-2402-PASS



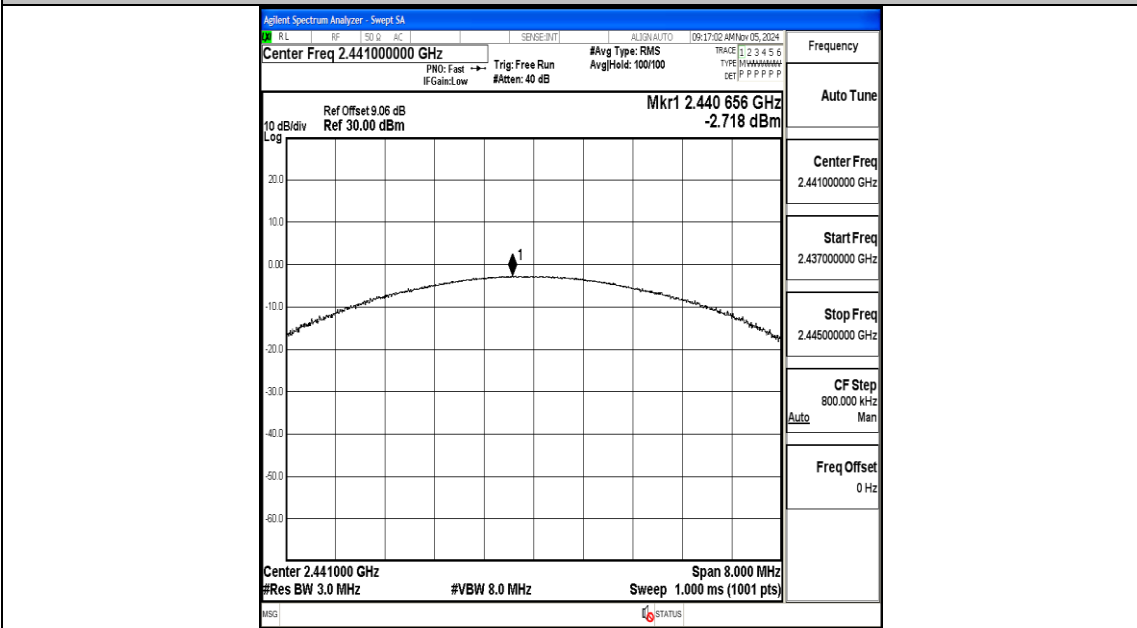
DH5-Ant1-2441-PASS



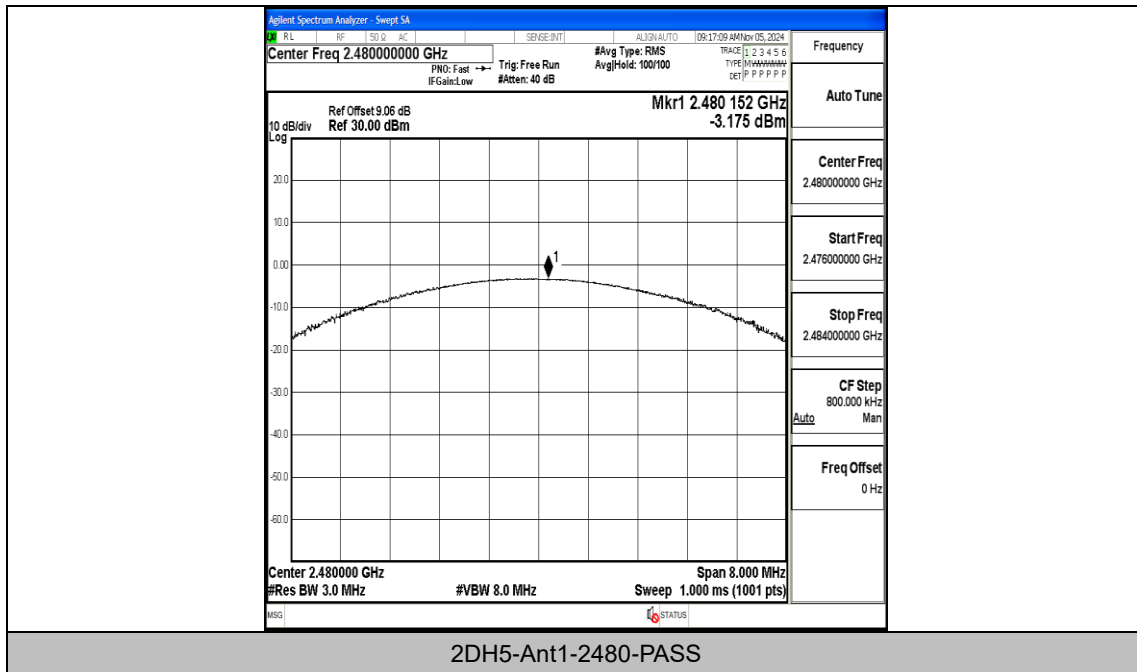
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS

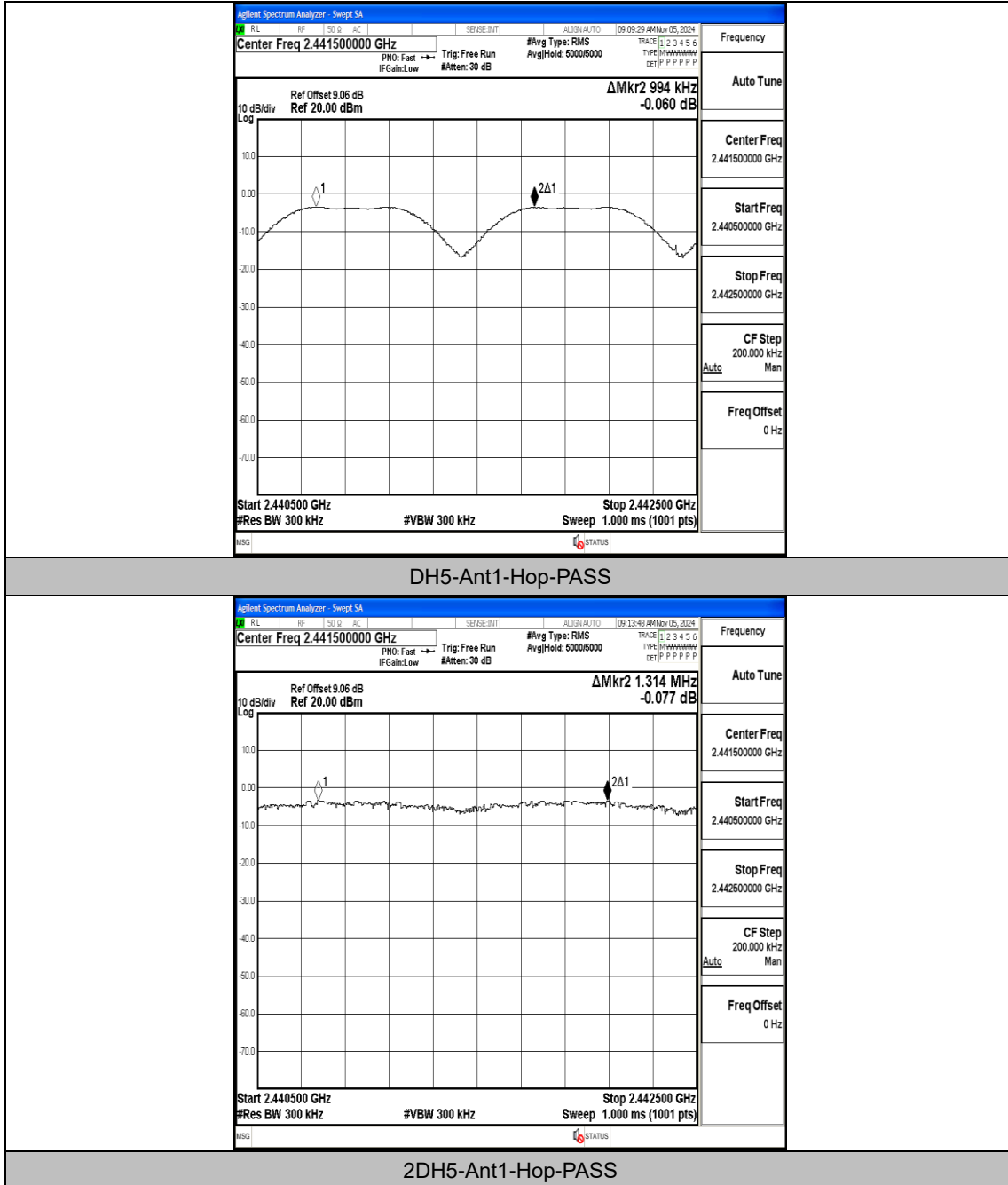


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.945	PASS
2DH5	Ant1	Hop	1.314	≥ 0.924	PASS

Test Graphs

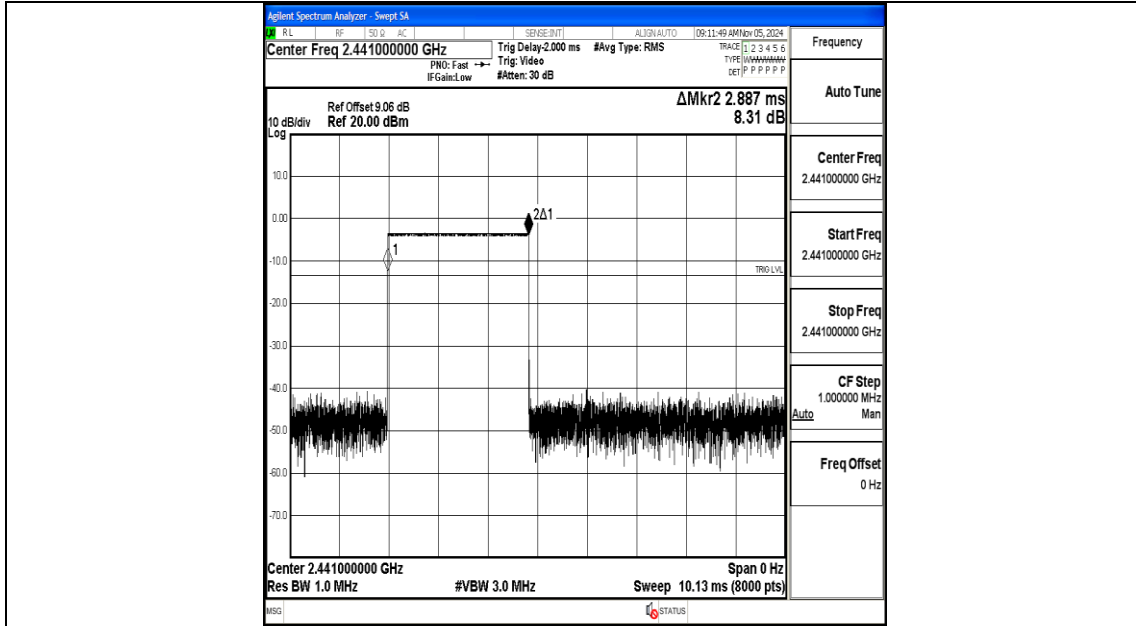


Appendix E: Time of occupancy

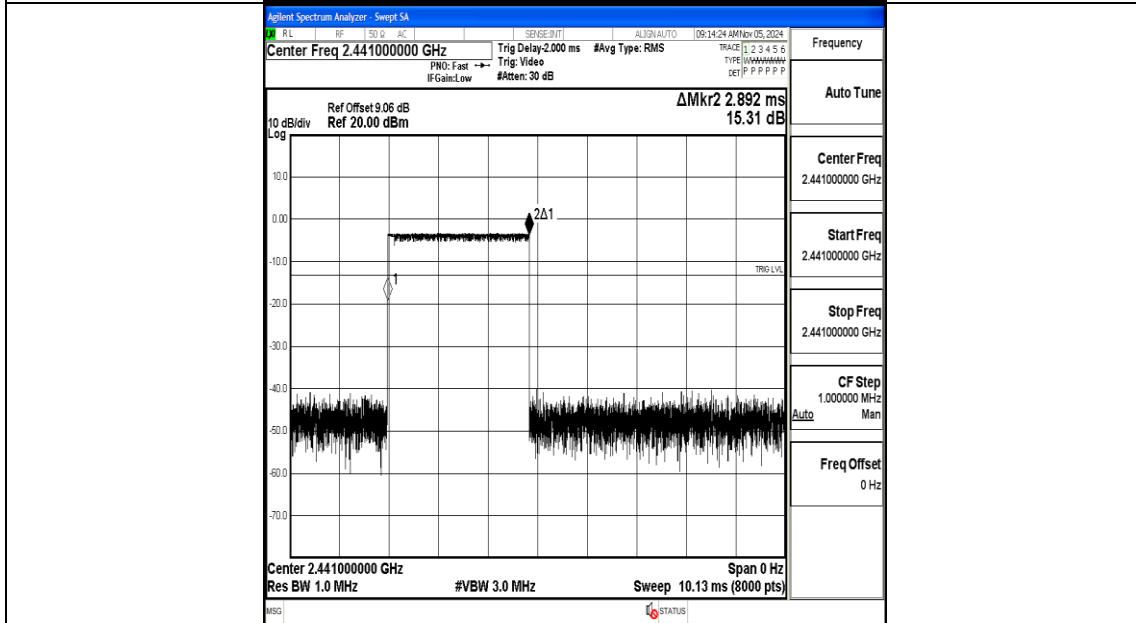
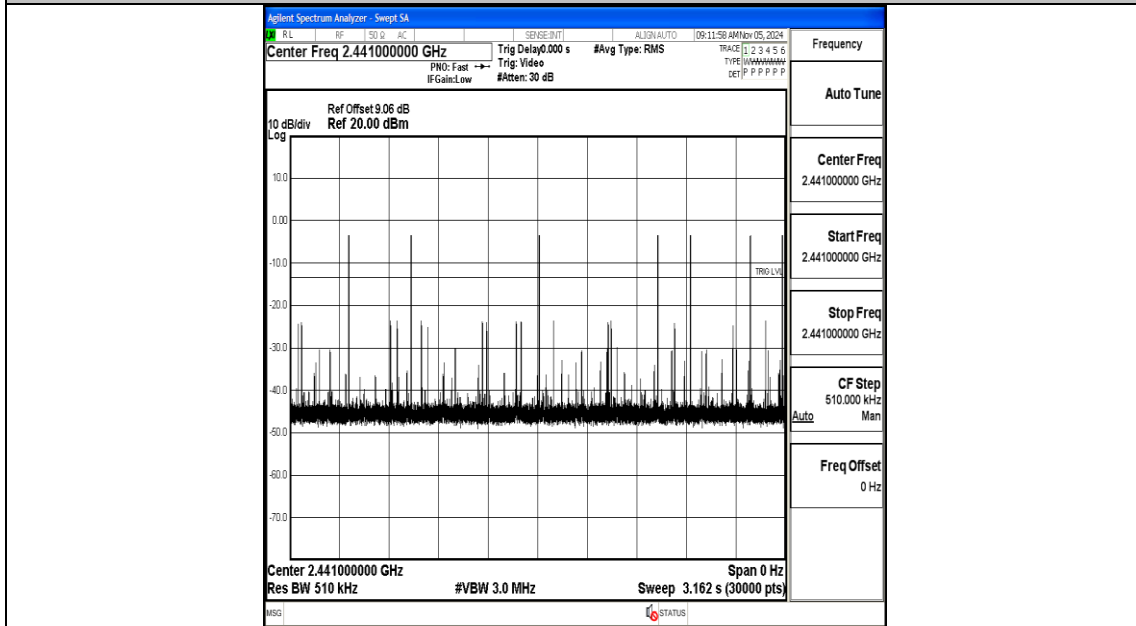
Test Result

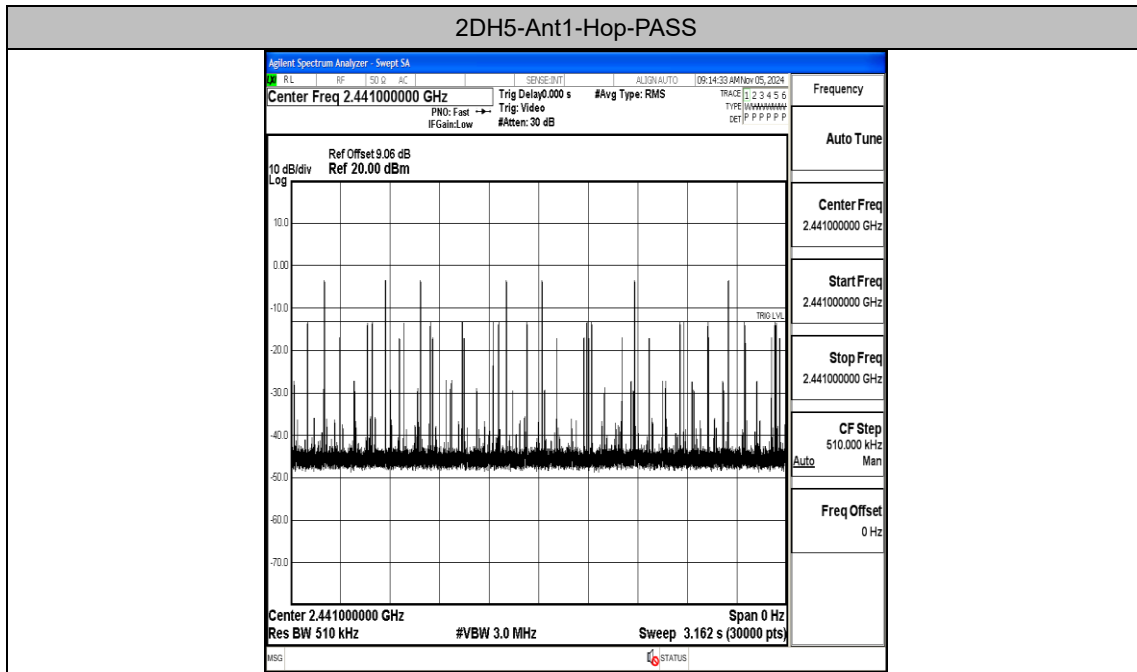
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.887	80	0.231	≤0.4	PASS
2DH5	Ant1	Hop	2.892	80	0.231	≤0.4	PASS

Test Graphs



DH5-Ant1-Hop-PASS



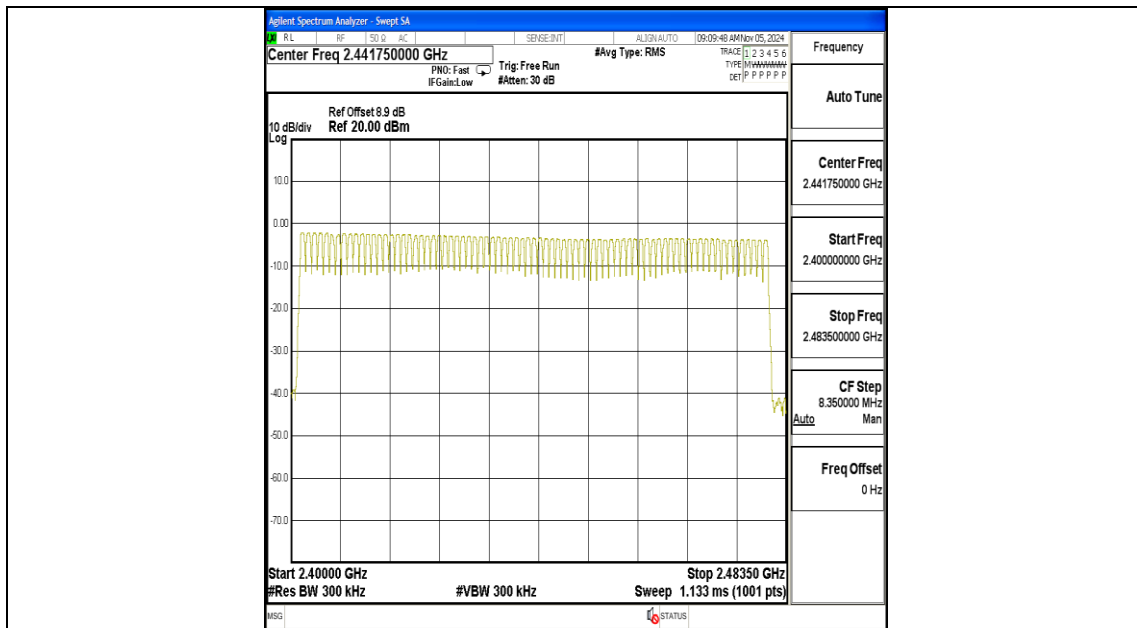


Appendix F: Number of hopping channels

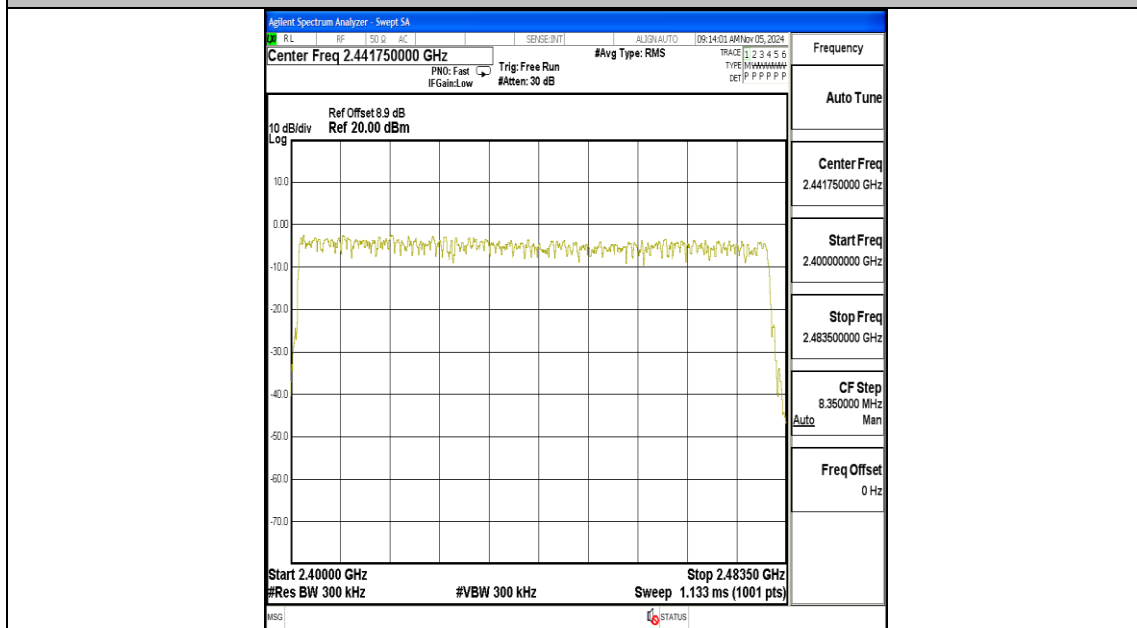
Test Result

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

Test Graphs



DH5-Ant1-Hop-PASS



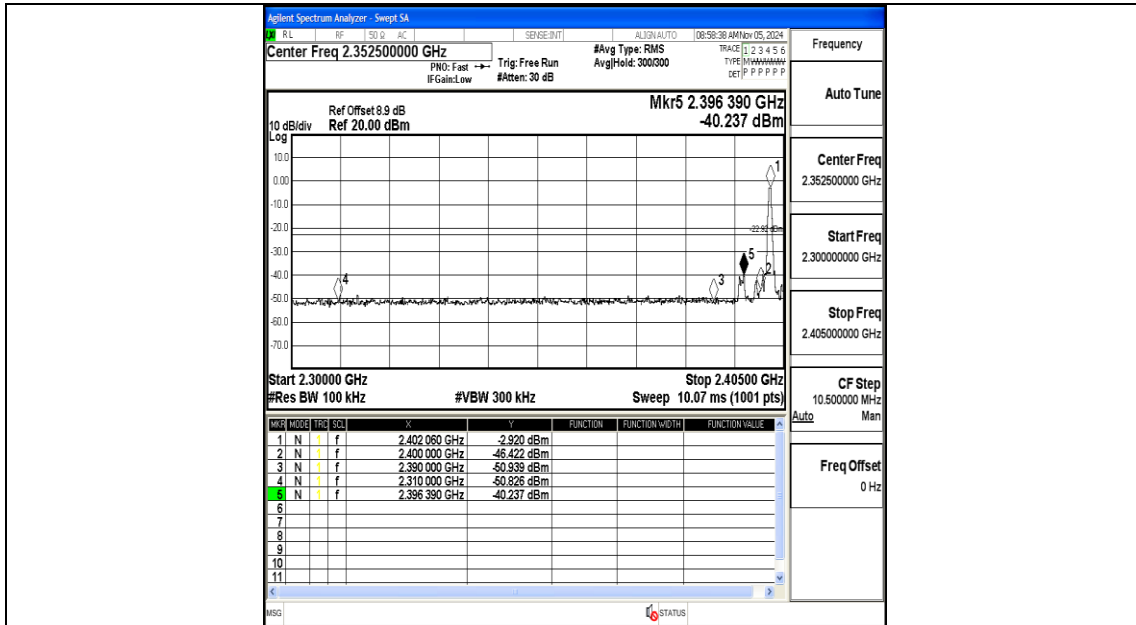
2DH5-Ant1-Hop-PASS

Appendix G: Band edge measurements

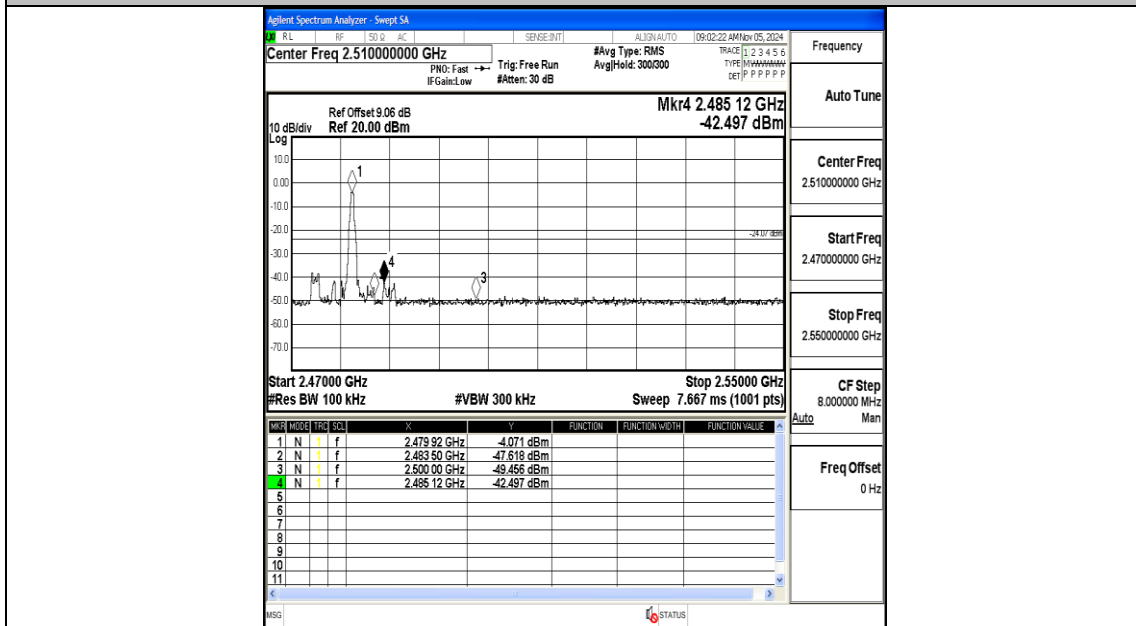
Test Result

Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.92	-40.24	≤-22.92	PASS
DH5	Ant1	High	2480	-4.07	-42.5	≤-24.07	PASS
DH5	Ant1	Low	Hop_2402	-2.85	-42.29	≤-22.85	PASS
DH5	Ant1	High	Hop_2480	-4.44	-42.86	≤-24.44	PASS
2DH5	Ant1	Low	2402	-3.77	-38.65	≤-23.77	PASS
2DH5	Ant1	High	2480	-3.89	-41.82	≤-23.89	PASS
2DH5	Ant1	Low	Hop_2402	-5.17	-42.18	≤-25.17	PASS
2DH5	Ant1	High	Hop_2480	-3.97	-45.97	≤-23.97	PASS

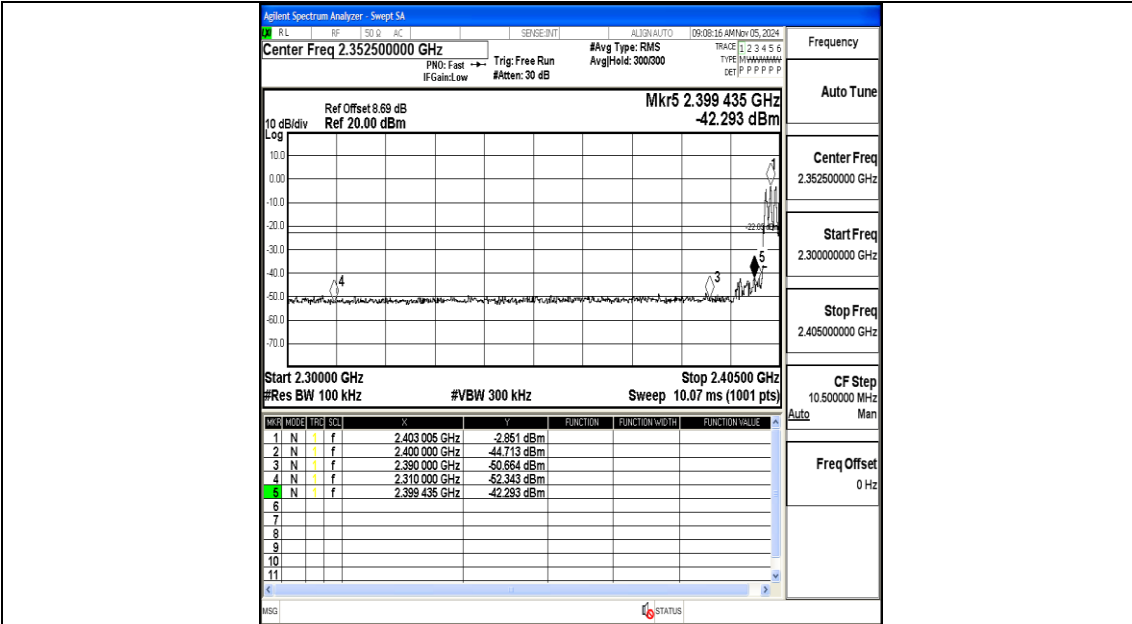
Test Graphs



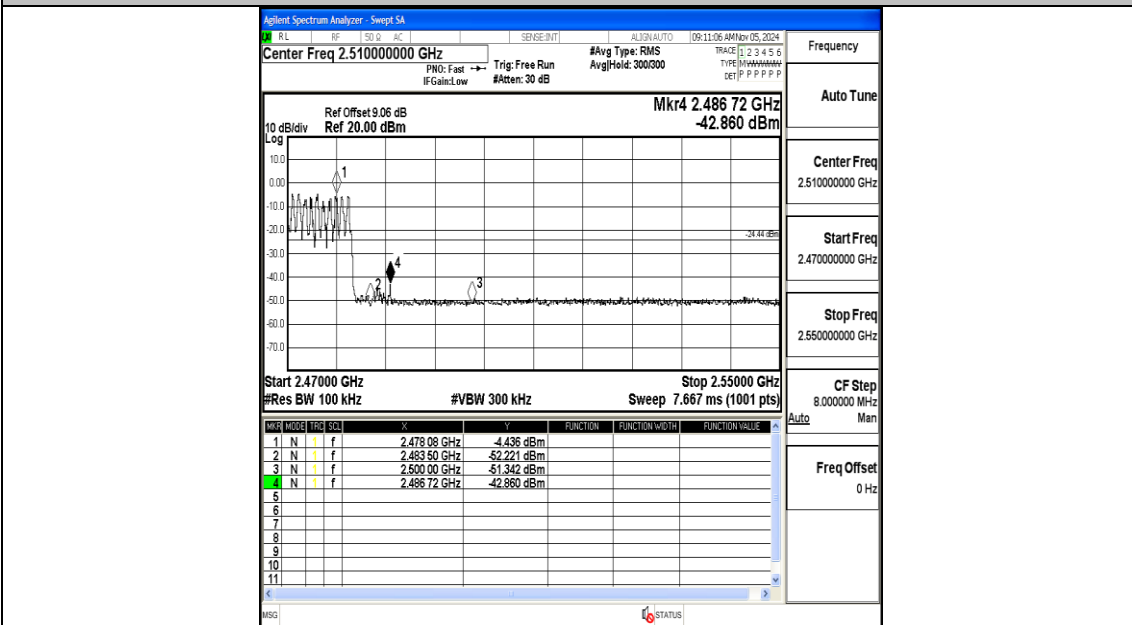
DH5-Ant1-2402-PASS



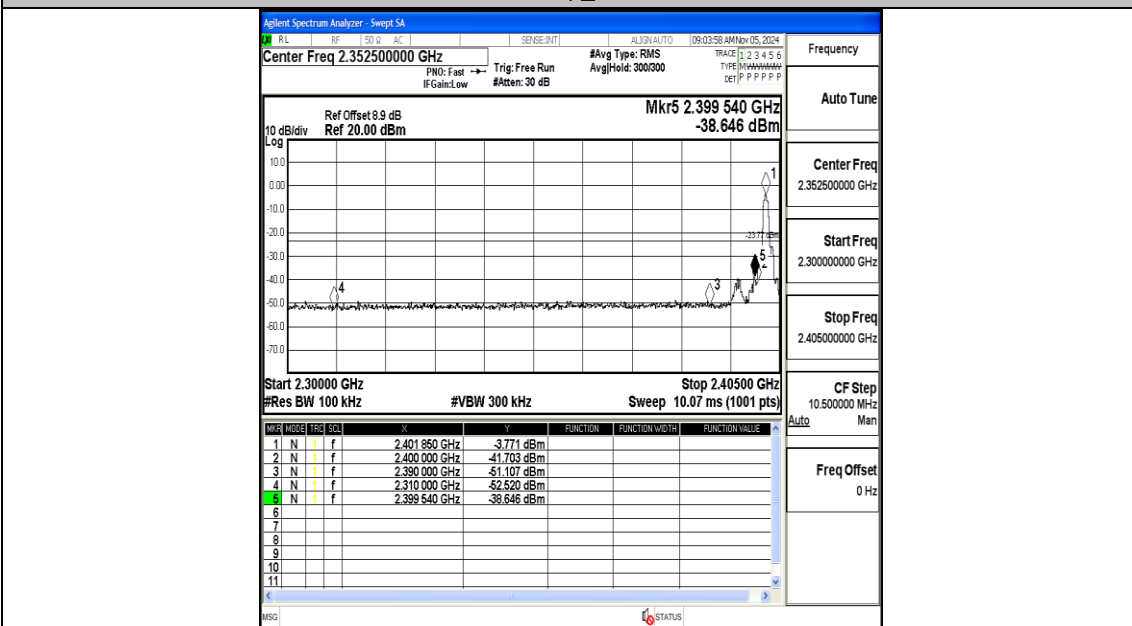
DH5-Ant1-2480-PASS



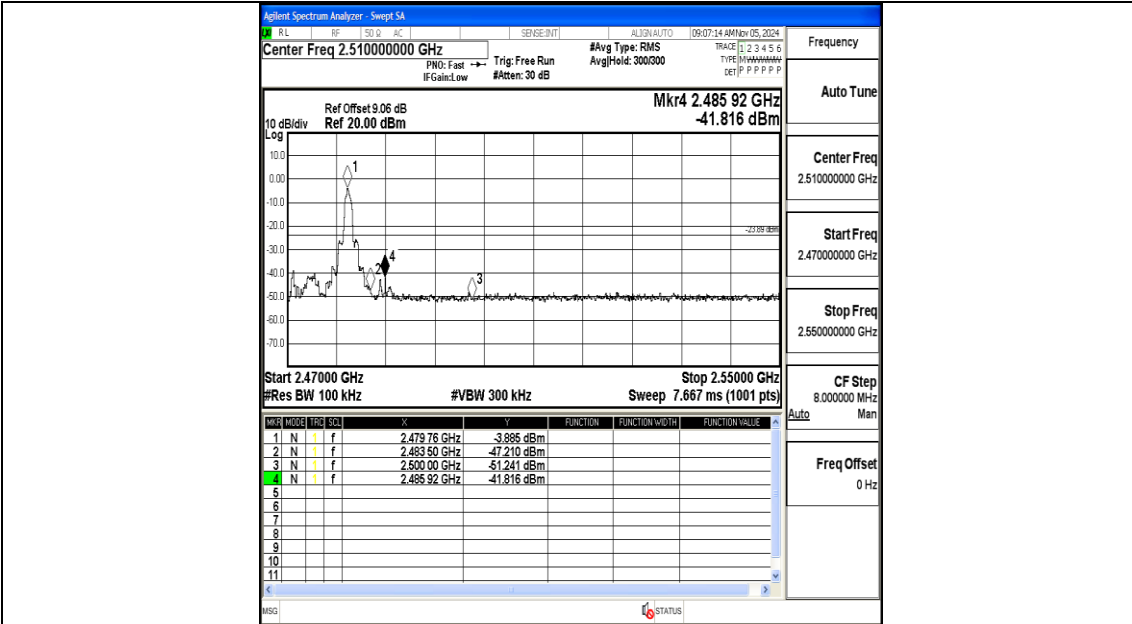
DH5-Ant1-Hop_2402-PASS



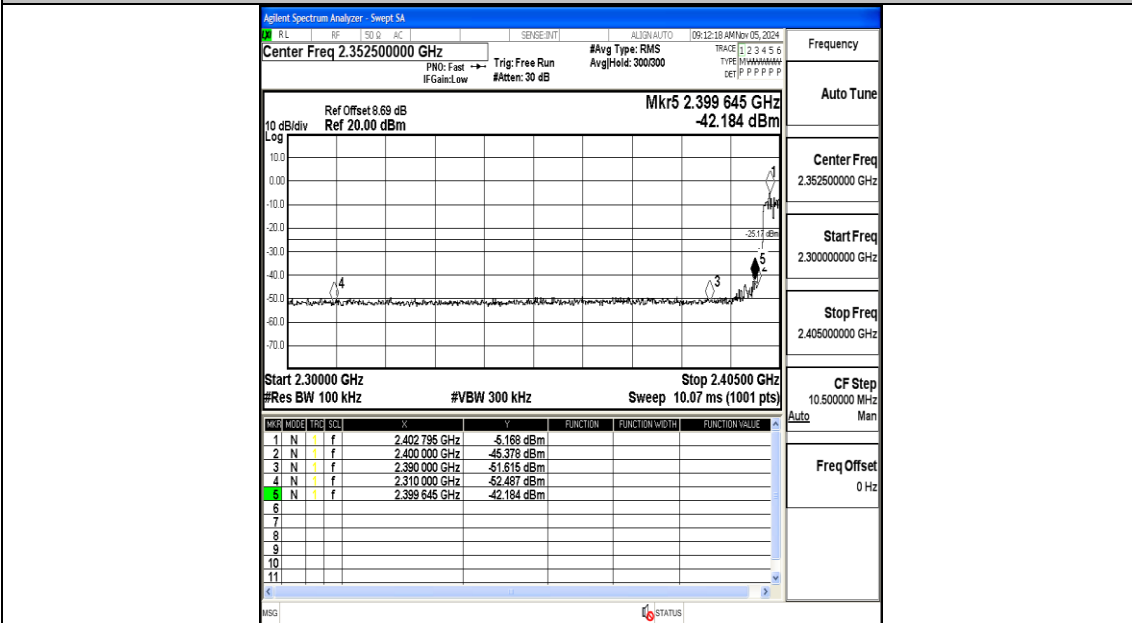
DH5-Ant1-Hop_2480-PASS



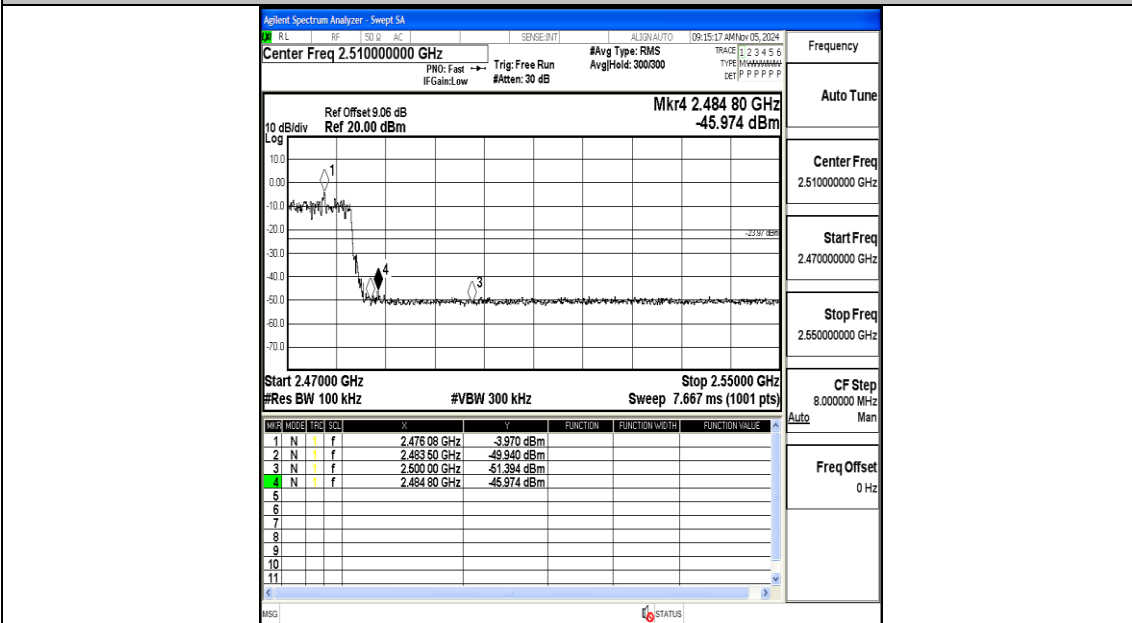
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



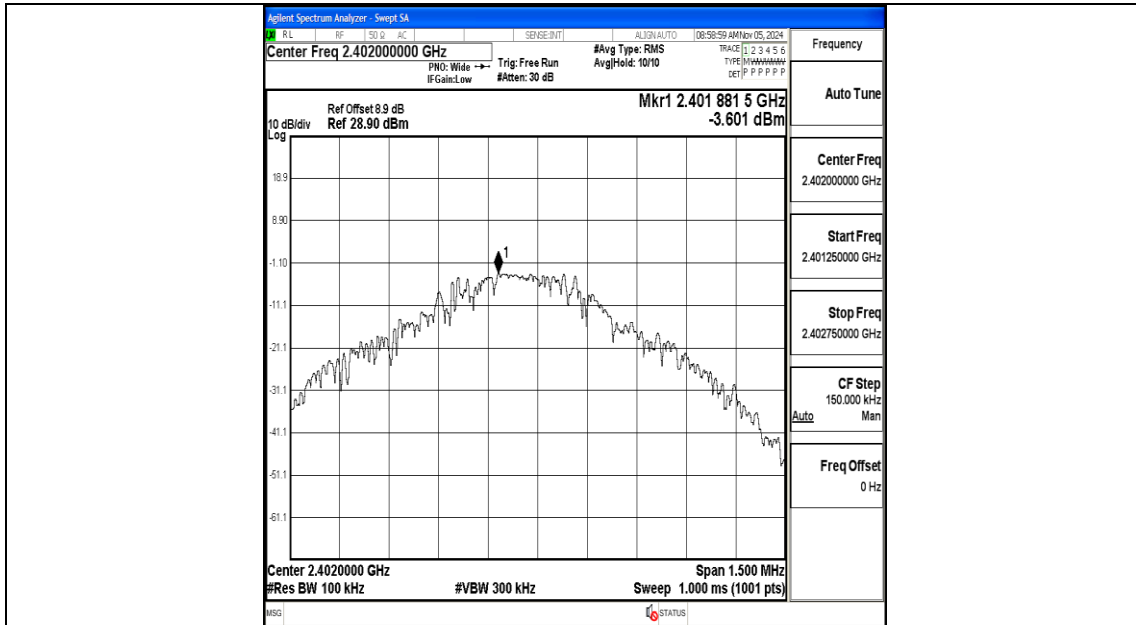
2DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

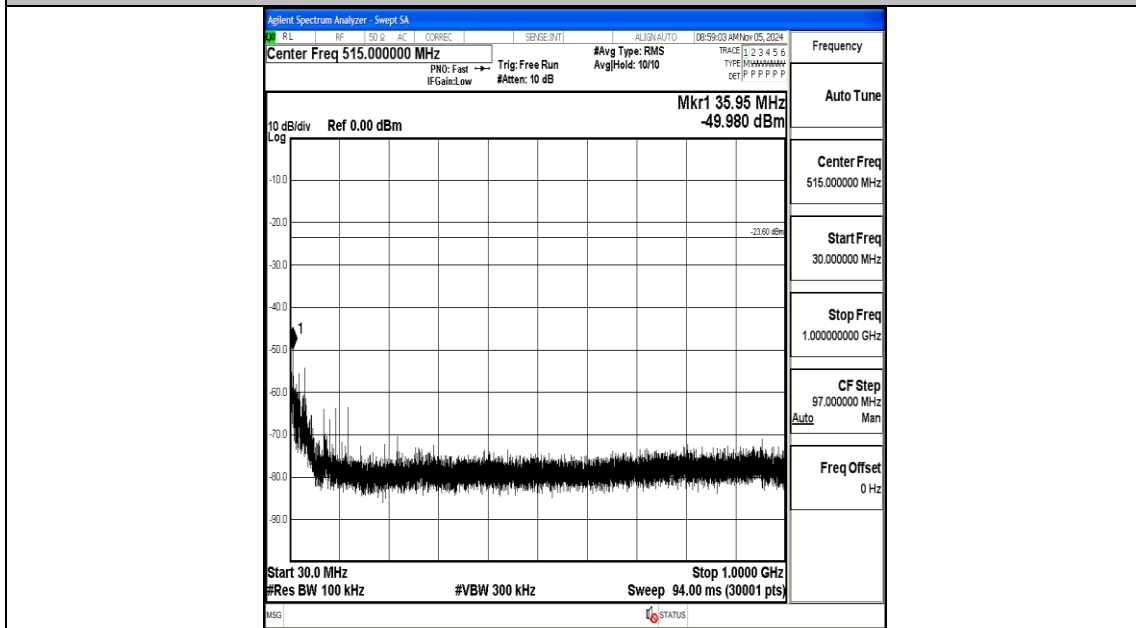
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-3.60	-3.60	---	PASS
DH5	Ant1	2402	30~1000	-3.60	-49.98	≤-23.6	PASS
DH5	Ant1	2402	1000~26500	-3.60	-36.89	≤-23.6	PASS
DH5	Ant1	2441	0~Reference	-3.99	-3.99	---	PASS
DH5	Ant1	2441	30~1000	-3.99	-49.59	≤-23.99	PASS
DH5	Ant1	2441	1000~26500	-3.99	-34.64	≤-23.99	PASS
DH5	Ant1	2480	0~Reference	-4.62	-4.62	---	PASS
DH5	Ant1	2480	30~1000	-4.62	-51.51	≤-24.62	PASS
DH5	Ant1	2480	1000~26500	-4.62	-35.75	≤-24.62	PASS
2DH5	Ant1	2402	0~Reference	-5.48	-5.48	---	PASS
2DH5	Ant1	2402	30~1000	-5.48	-49.47	≤-25.48	PASS
2DH5	Ant1	2402	1000~26500	-5.48	-31.45	≤-25.48	PASS
2DH5	Ant1	2441	0~Reference	-3.51	-3.51	---	PASS
2DH5	Ant1	2441	30~1000	-3.51	-49.99	≤-23.51	PASS
2DH5	Ant1	2441	1000~26500	-3.51	-37.16	≤-23.51	PASS
2DH5	Ant1	2480	0~Reference	-6.65	-6.65	---	PASS
2DH5	Ant1	2480	30~1000	-6.65	-50.19	≤-26.65	PASS
2DH5	Ant1	2480	1000~26500	-6.65	-38.25	≤-26.65	PASS

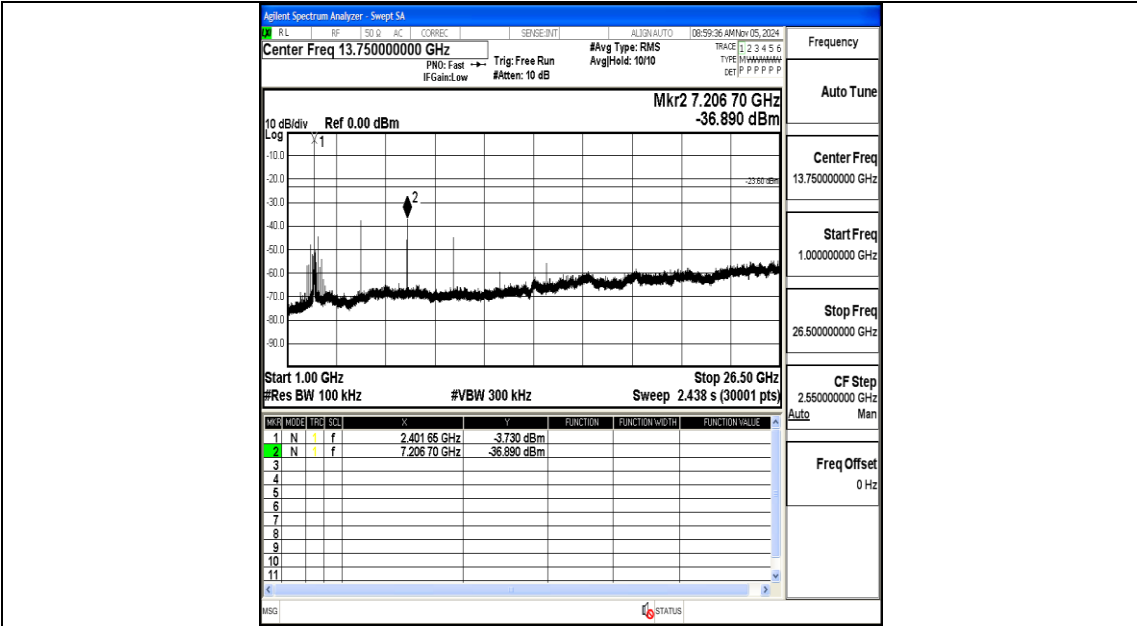
Test Graphs



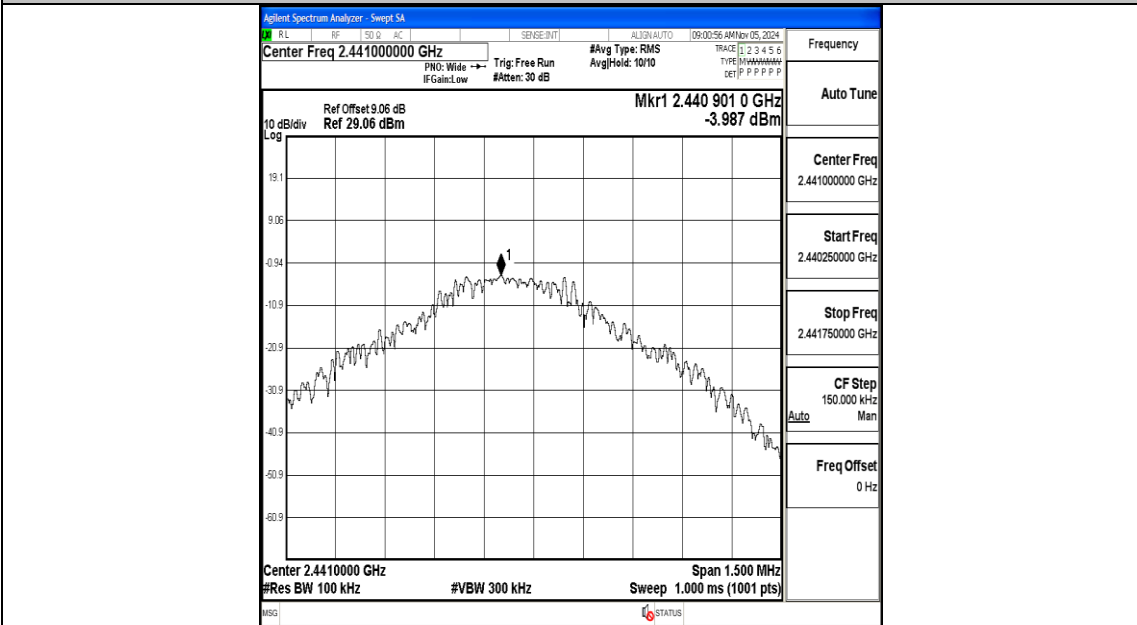
DH5-Ant1-2402-0~Reference-PASS



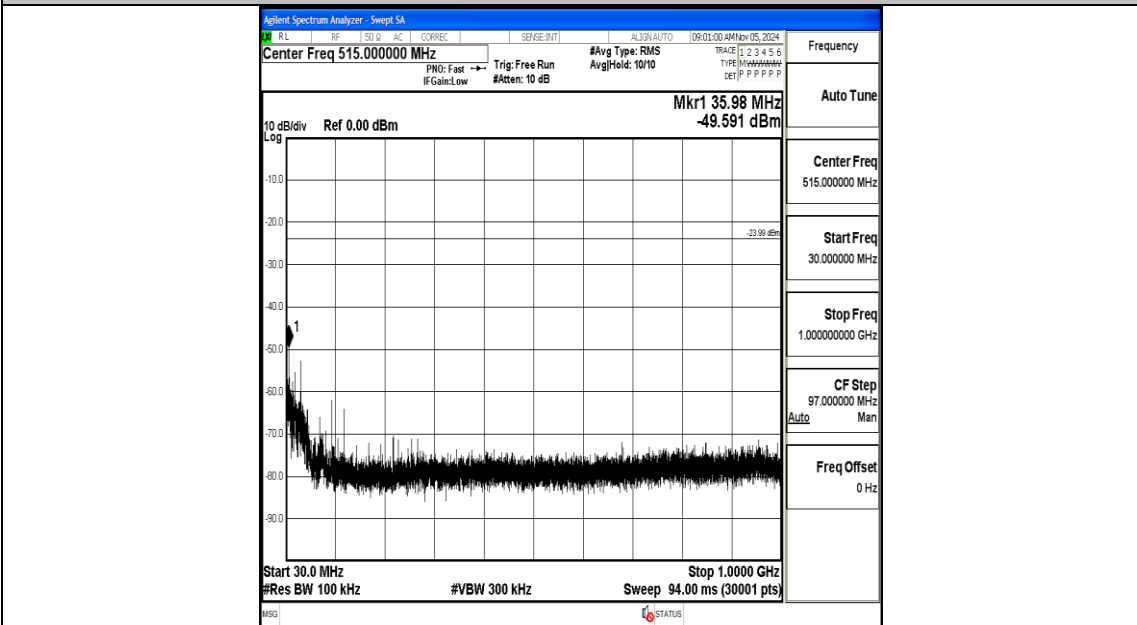
DH5-Ant1-2402-30~1000-PASS



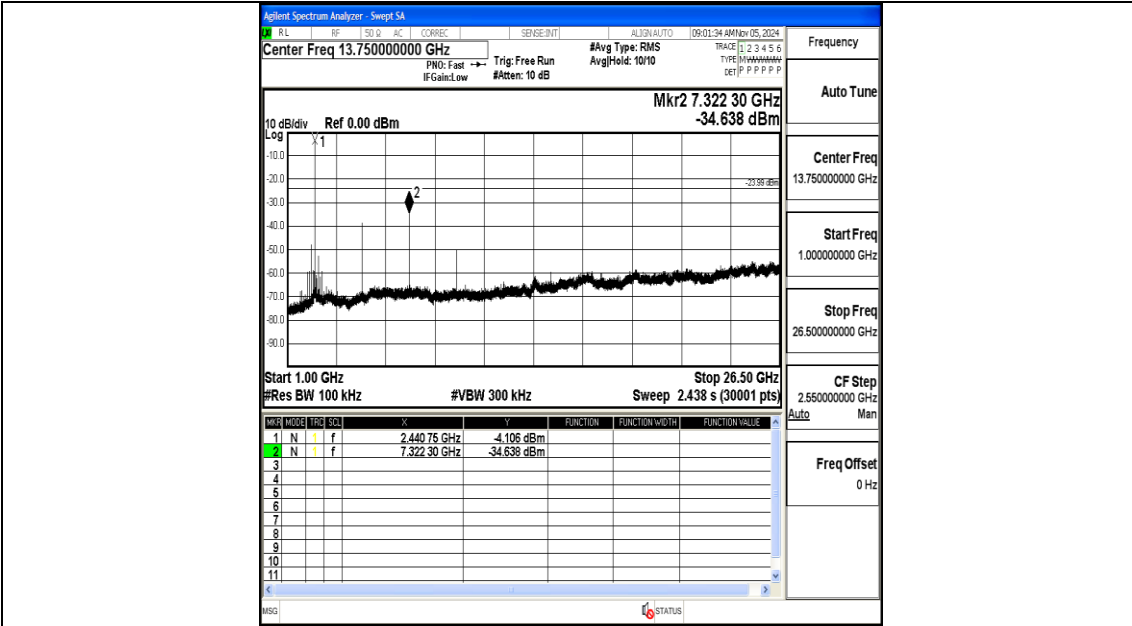
DH5-Ant1-2402-1000~26500-PASS



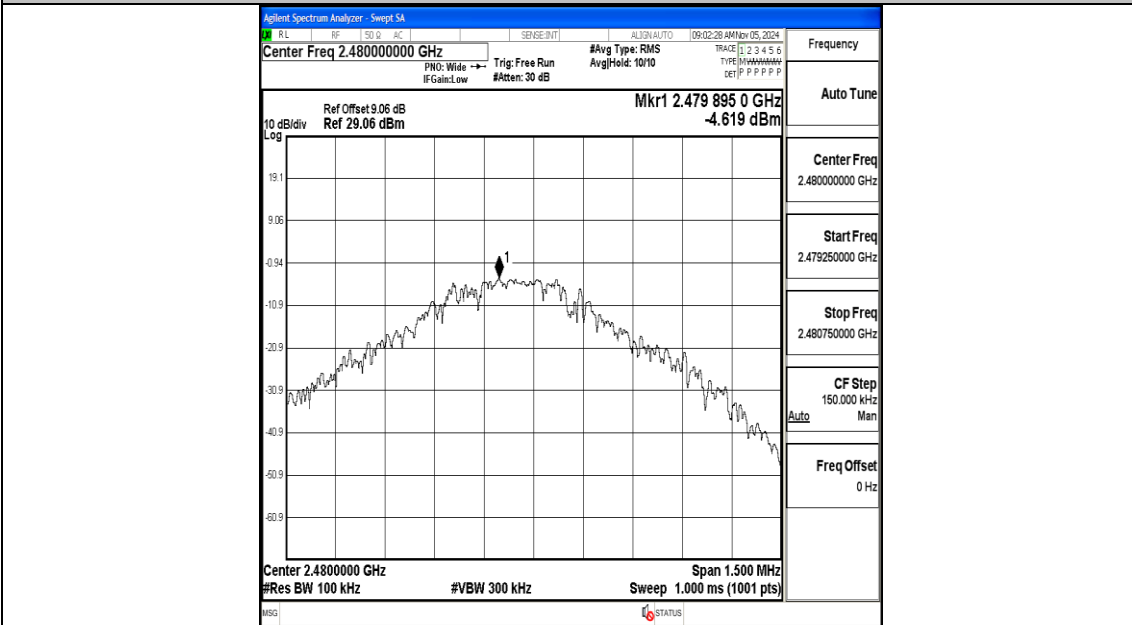
DH5-Ant1-2441-0~Reference-PASS



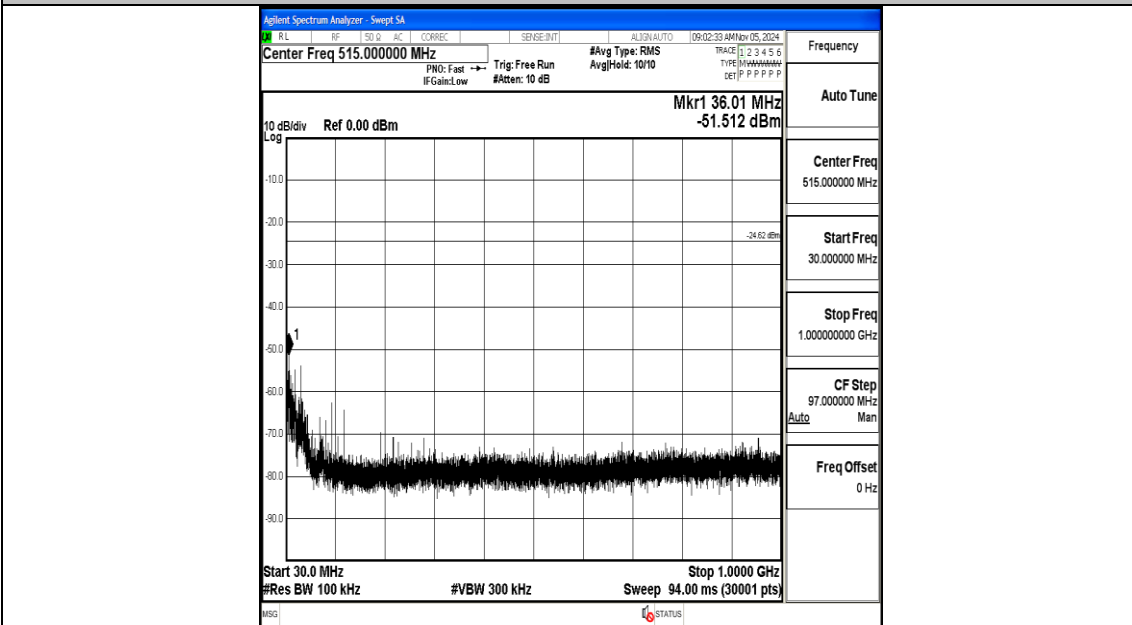
DH5-Ant1-2441-30~1000-PASS



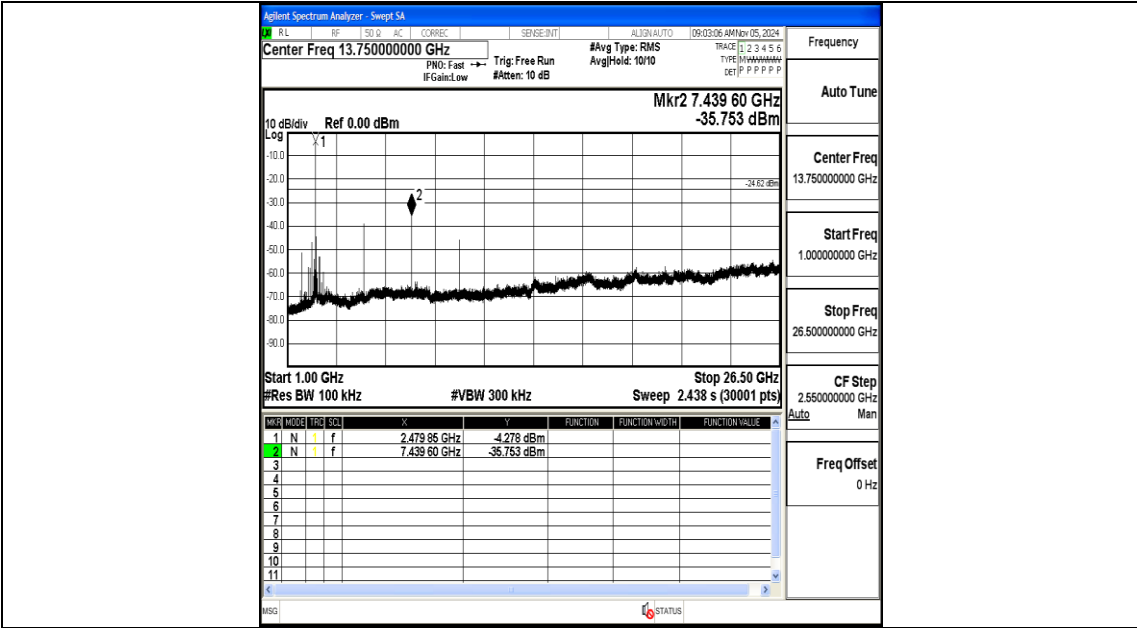
DH5-Ant1-2441-1000~26500-PASS



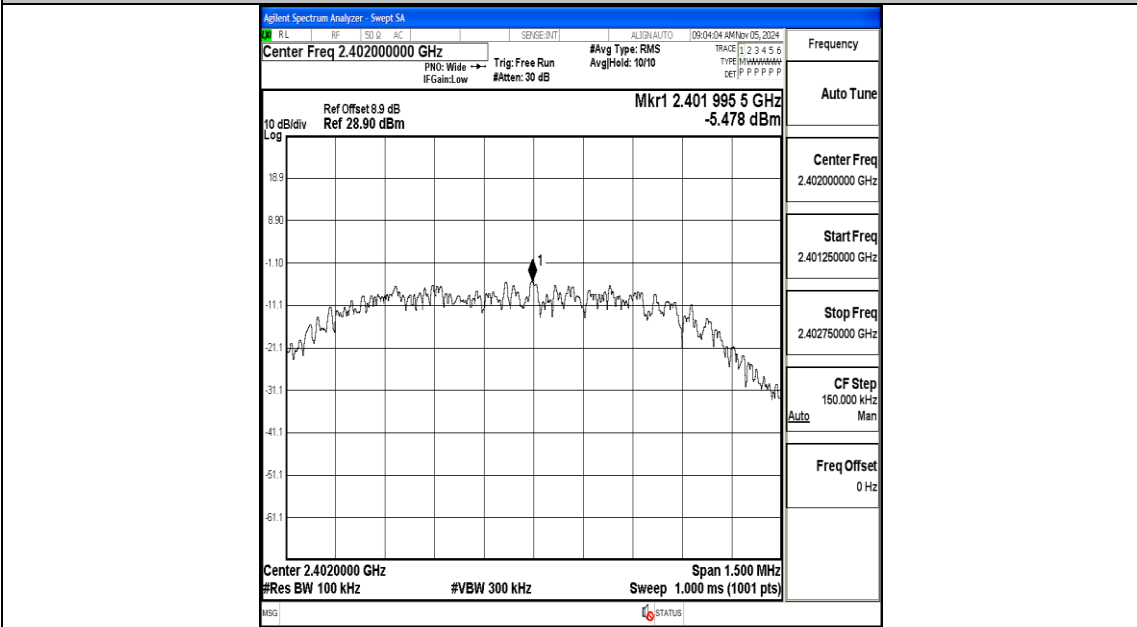
DH5-Ant1-2480-0~Reference-PASS



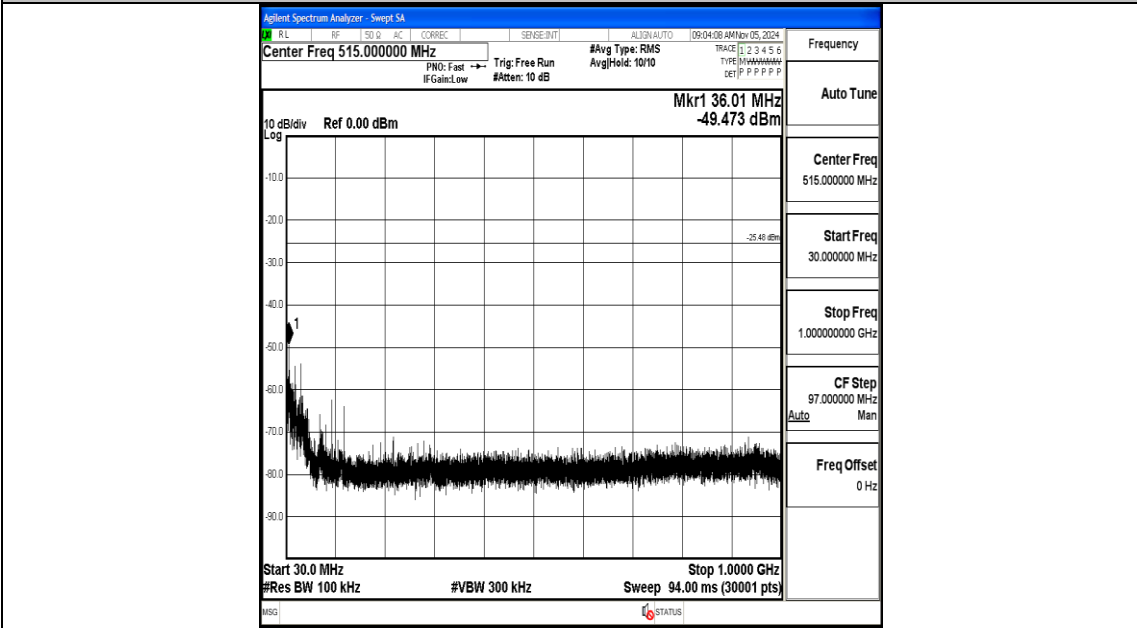
DH5-Ant1-2480-30~1000-PASS



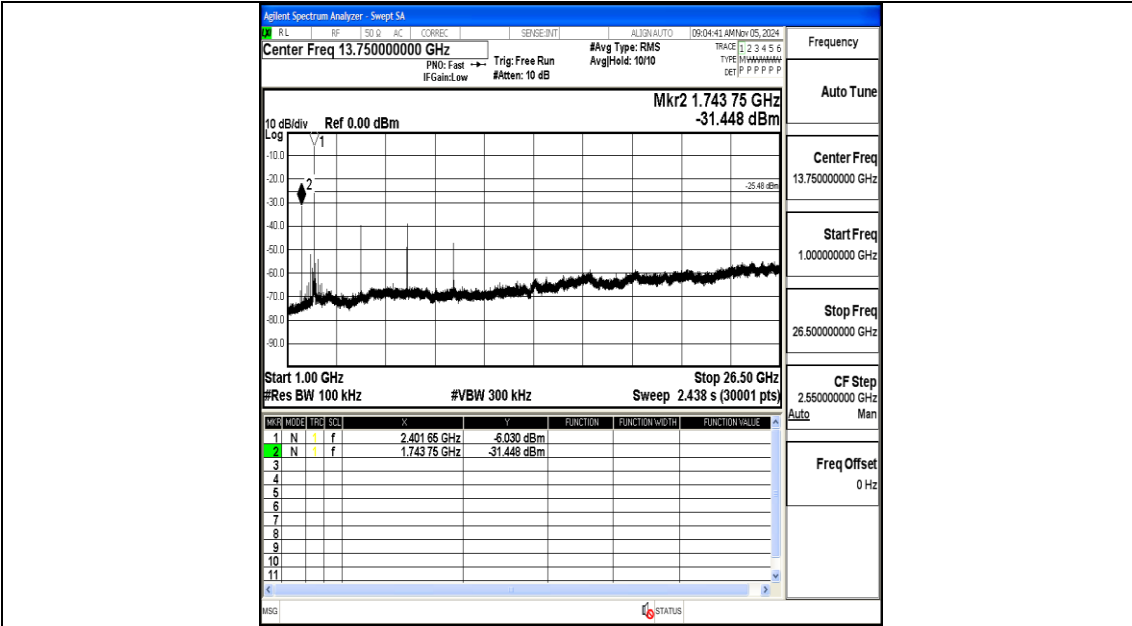
DH5-Ant1-2480-1000~26500-PASS



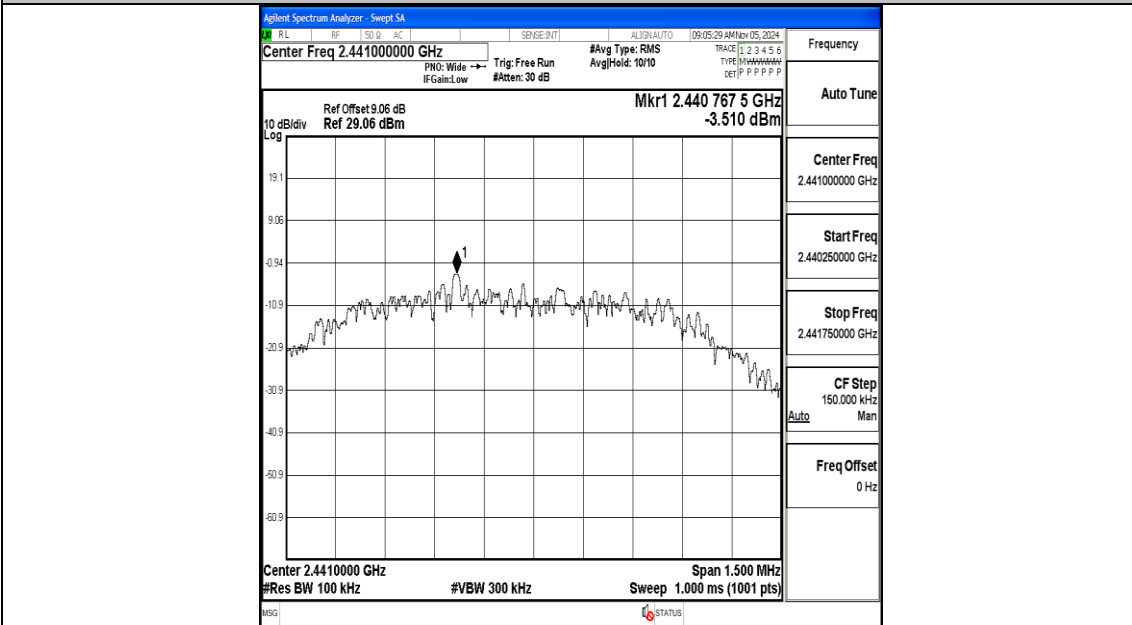
2DH5-Ant1-2402-0~Reference-PASS



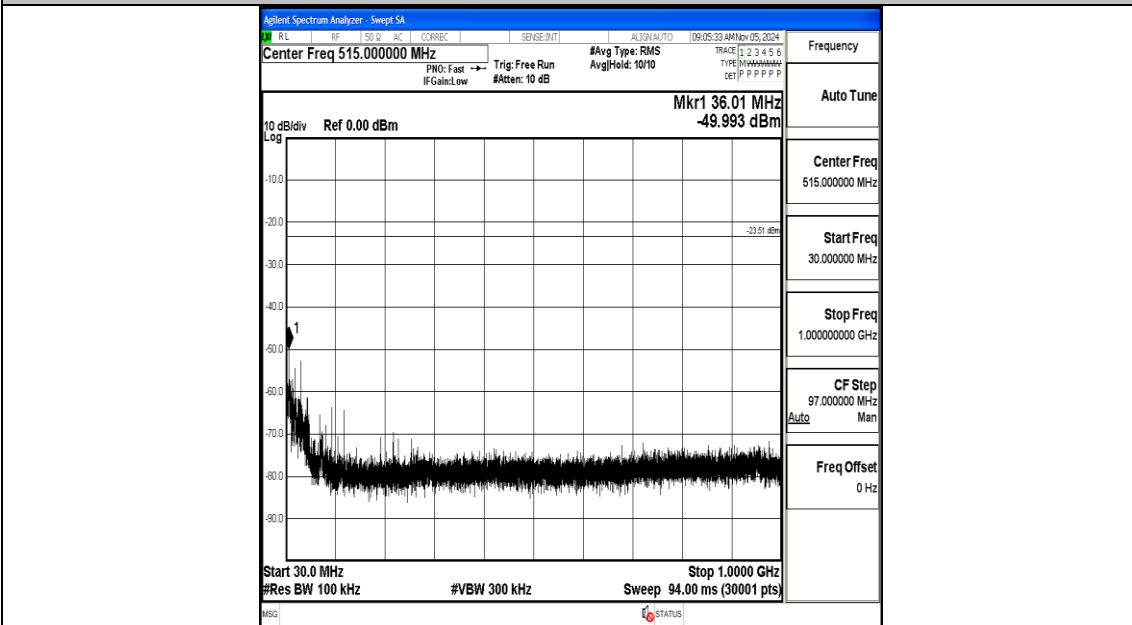
2DH5-Ant1-2402-30~1000-PASS



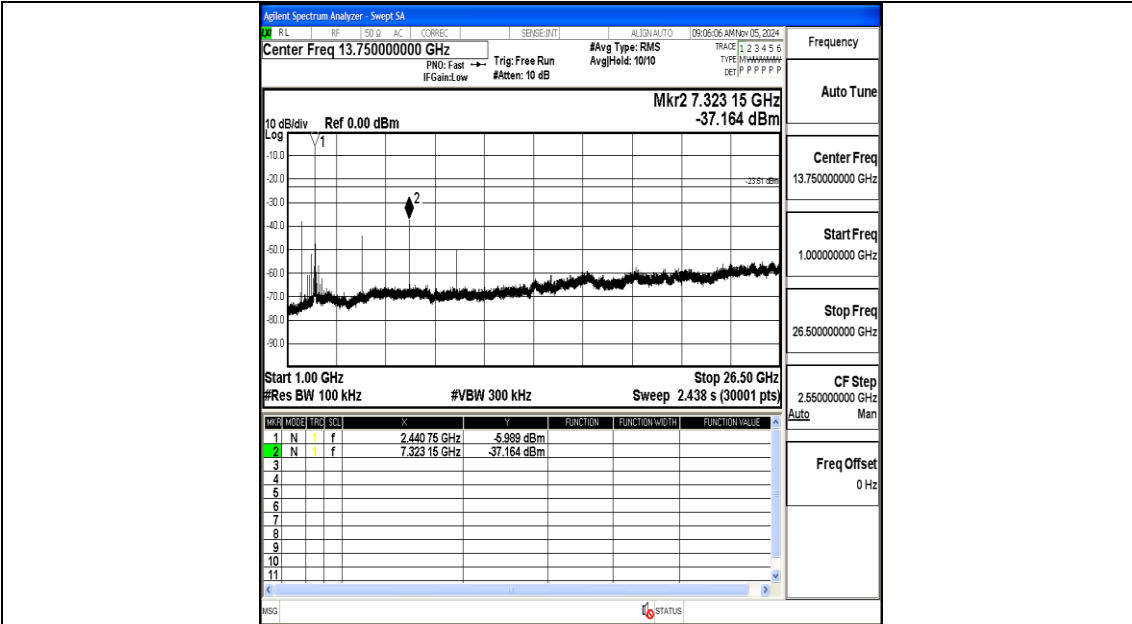
2DH5-Ant1-2402-1000~26500-PASS



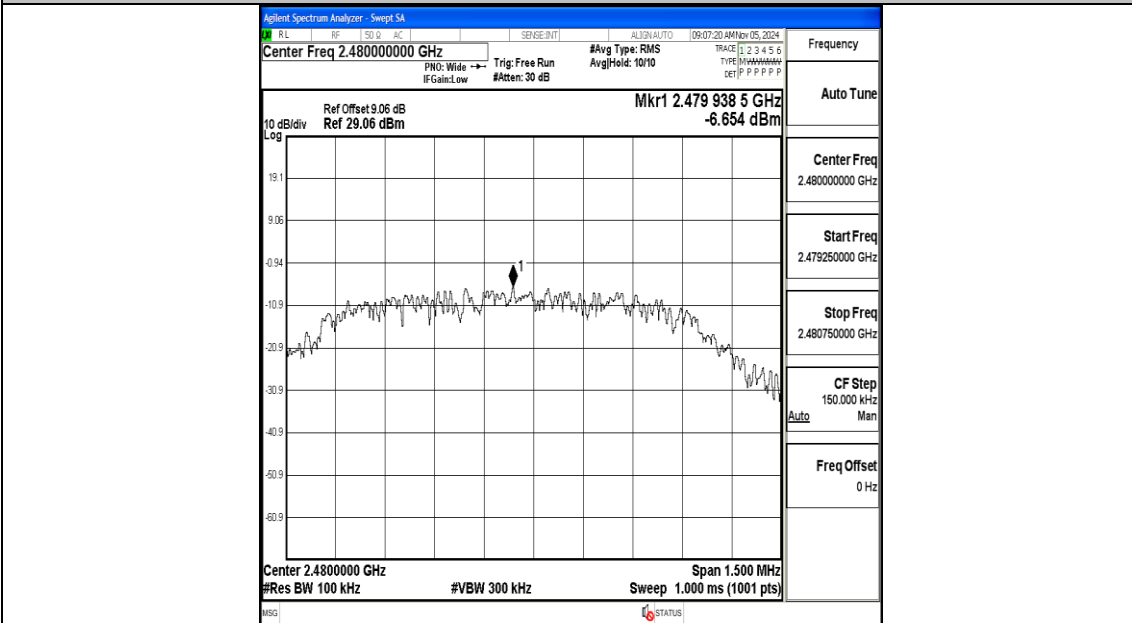
2DH5-Ant1-2441-0~Reference-PASS



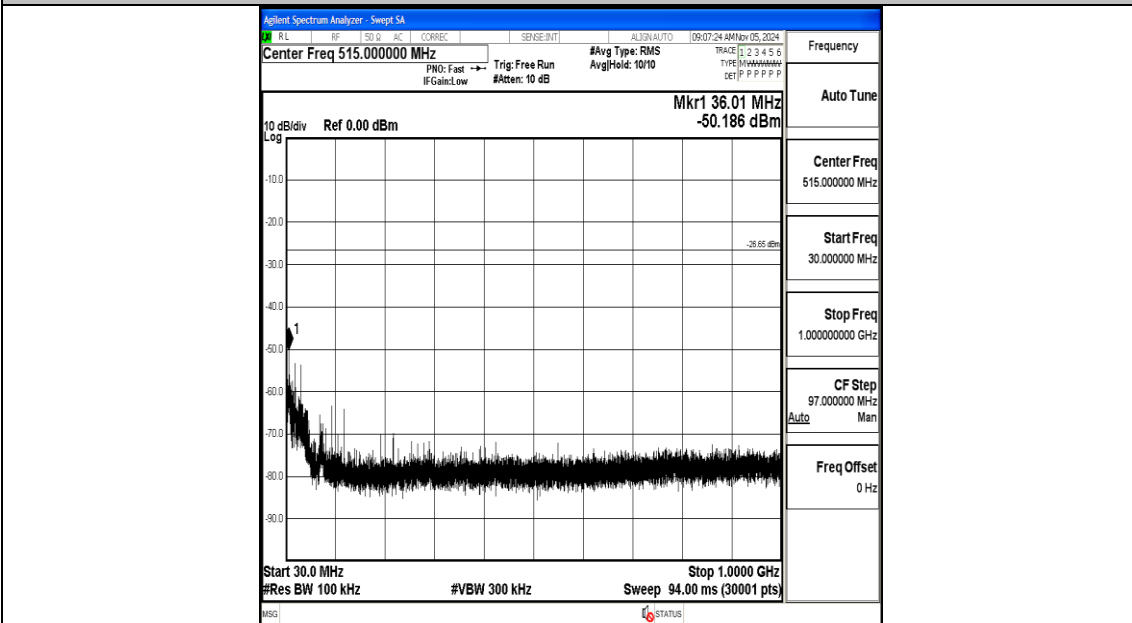
2DH5-Ant1-2441-30~1000-PASS



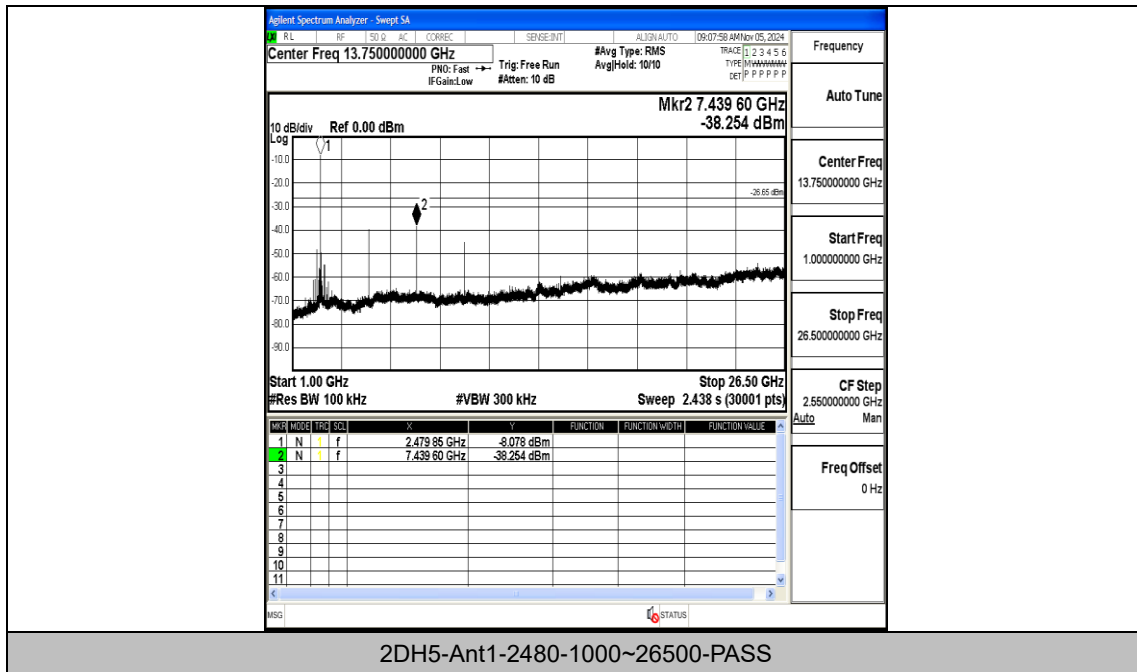
2DH5-Ant1-2441-1000~26500-PASS



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



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

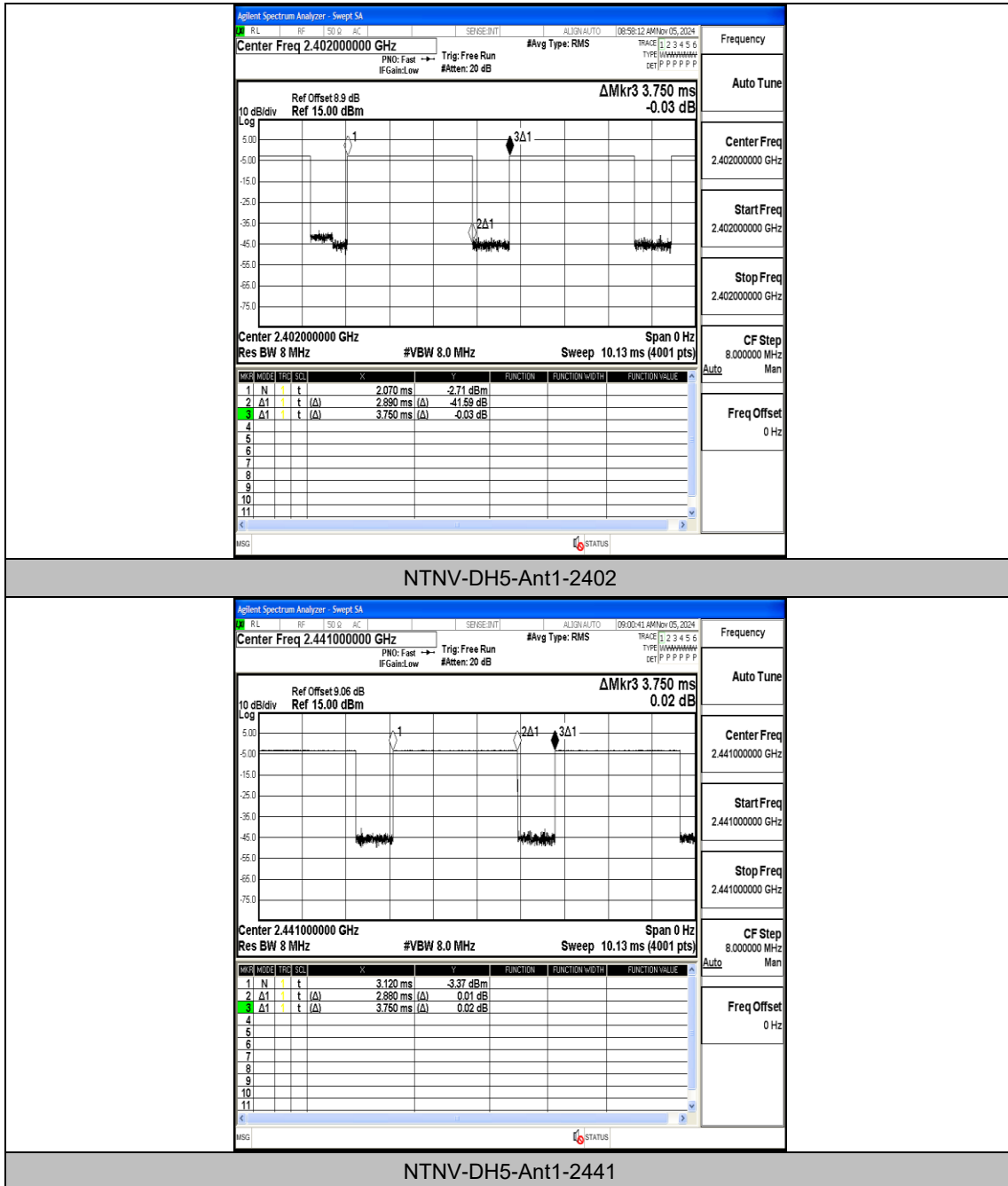


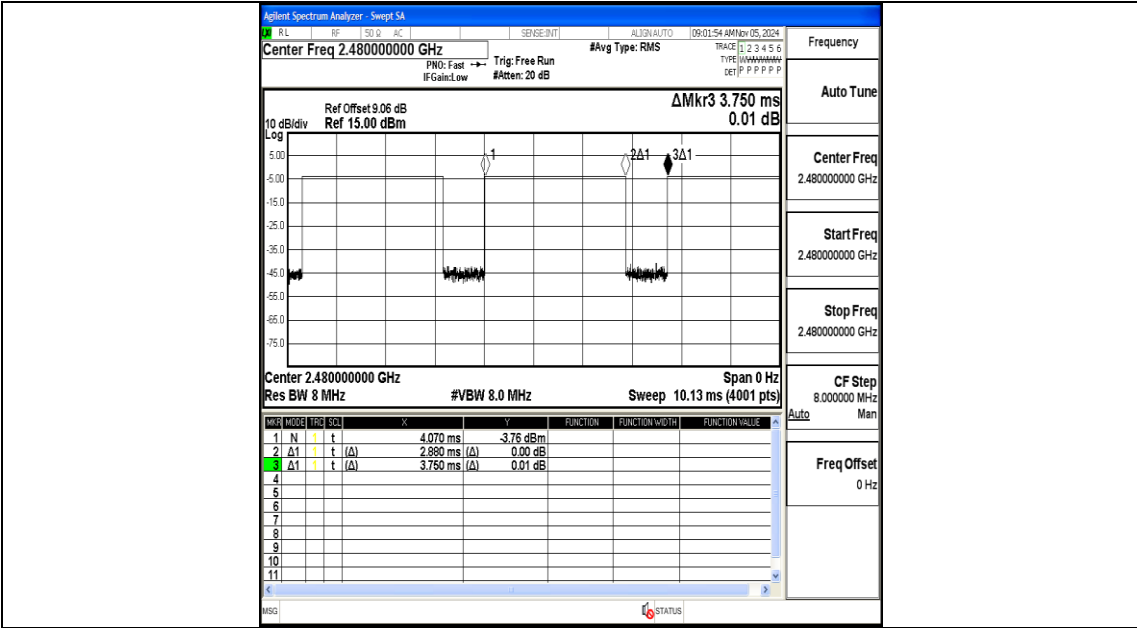
Appendix I: Duty Cycle

Test Result

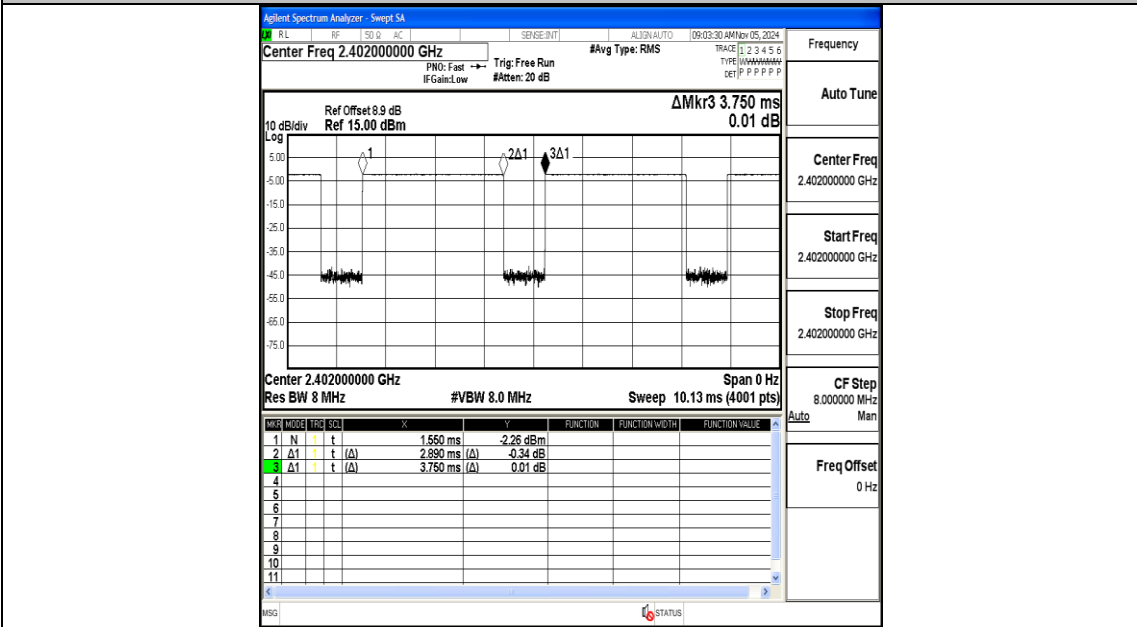
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.90	3.76	77.13	1.13

Test Graphs

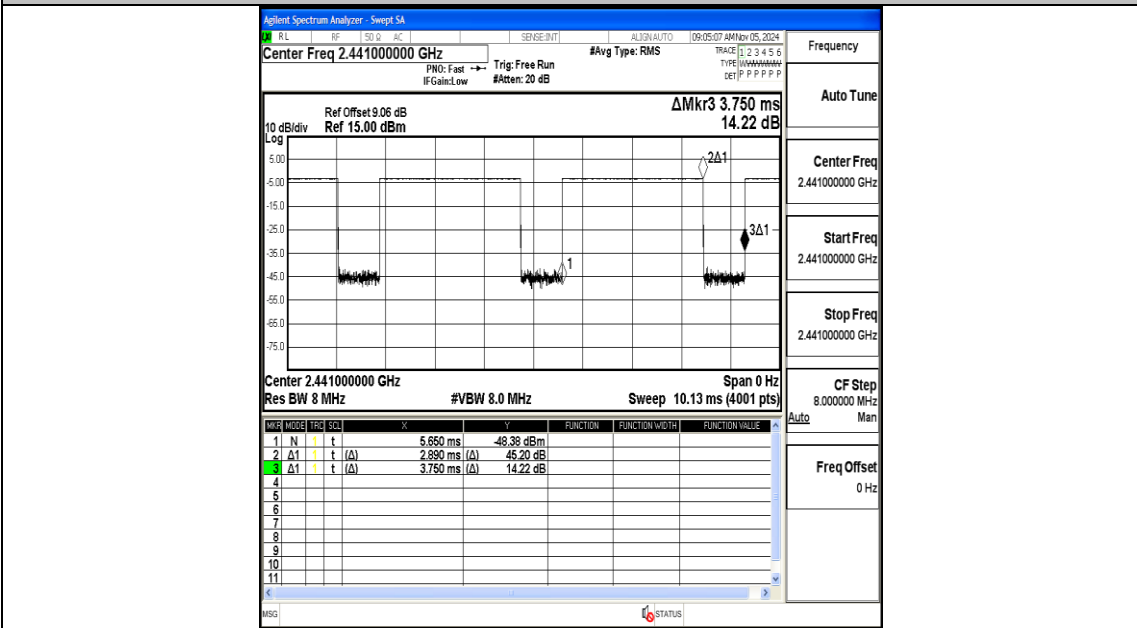




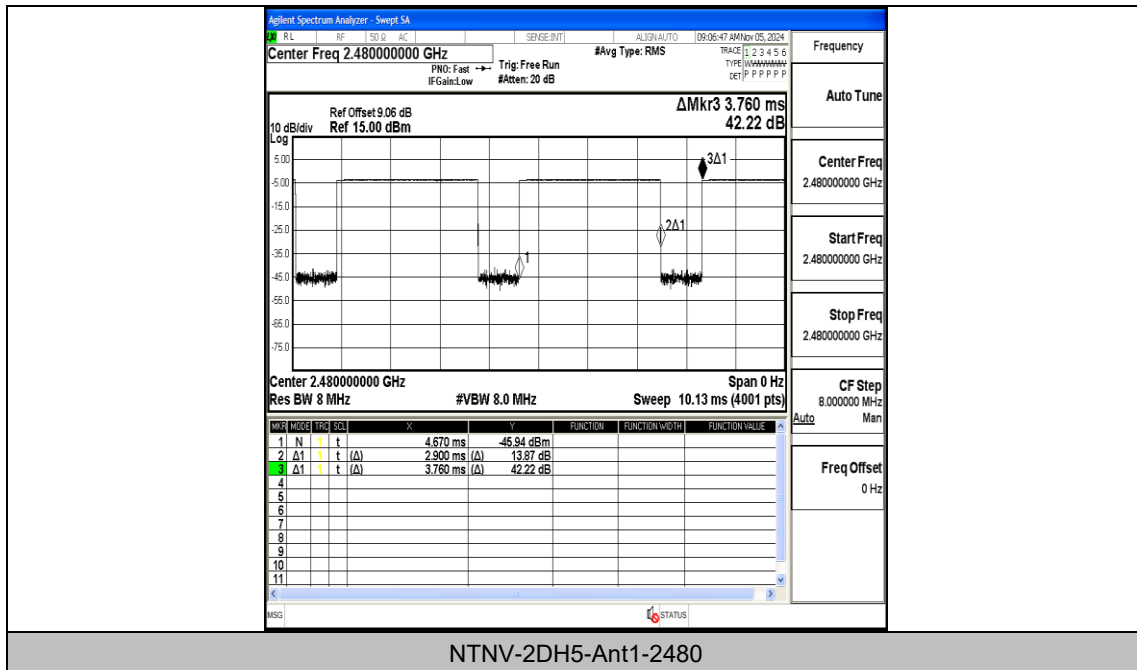
NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402



NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480