

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

Product Name: Mini cell phone

Trade Mark: /

Test Model: BM10

FCC ID: 2BNQC-BM10

Environmental Conditions

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

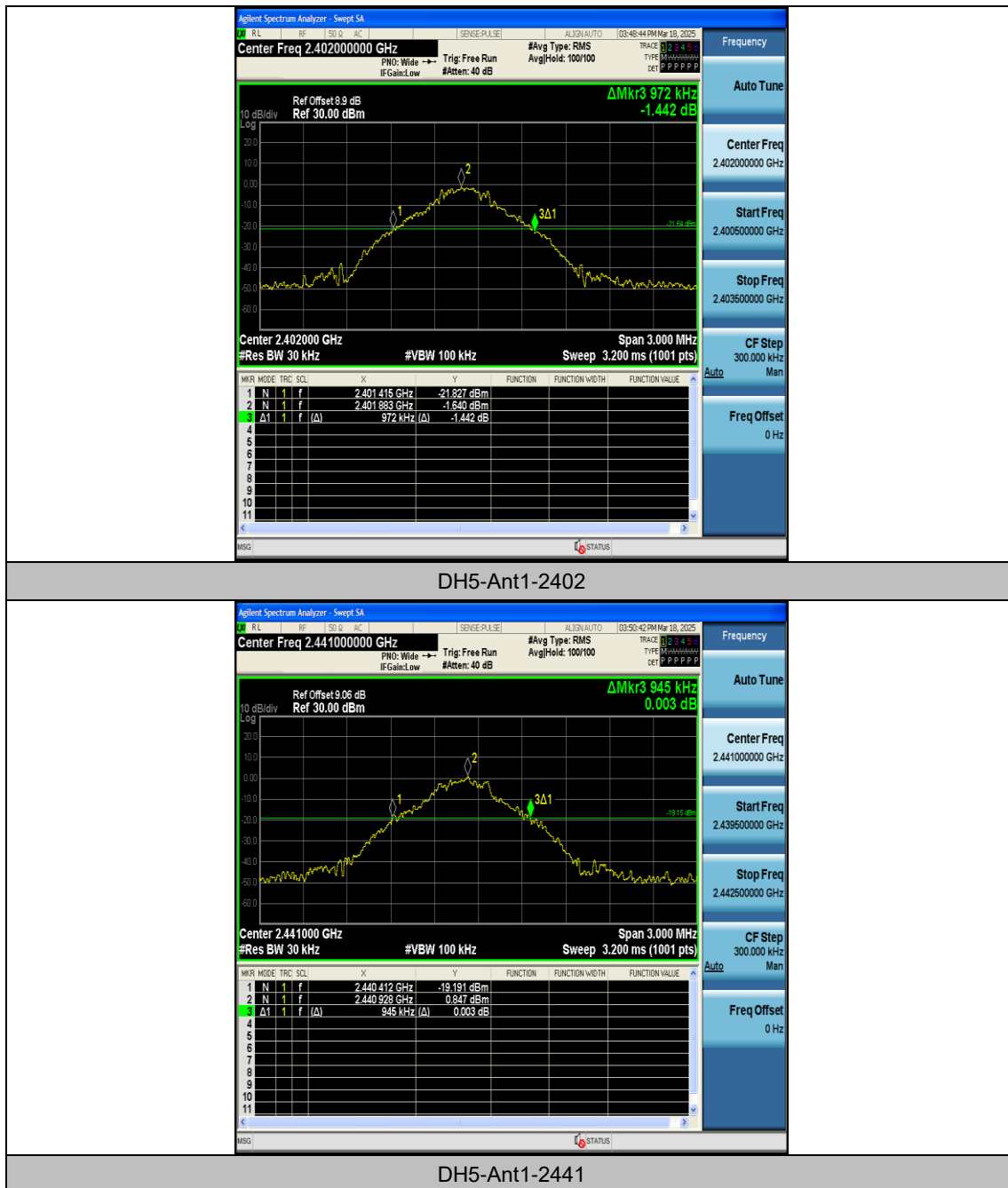
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.972	2401.415	2402.387	---	---
DH5	Ant1	2441	0.945	2440.412	2441.357	---	---
DH5	Ant1	2480	0.972	2479.400	2480.372	---	---
2DH5	Ant1	2402	1.287	2401.253	2402.540	---	---
2DH5	Ant1	2441	1.293	2440.247	2441.540	---	---
2DH5	Ant1	2480	1.305	2479.241	2480.546	---	---
3DH5	Ant1	2402	1.311	2401.250	2402.561	---	---
3DH5	Ant1	2441	1.278	2440.259	2441.537	---	---
3DH5	Ant1	2480	1.290	2479.256	2480.546	---	---

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



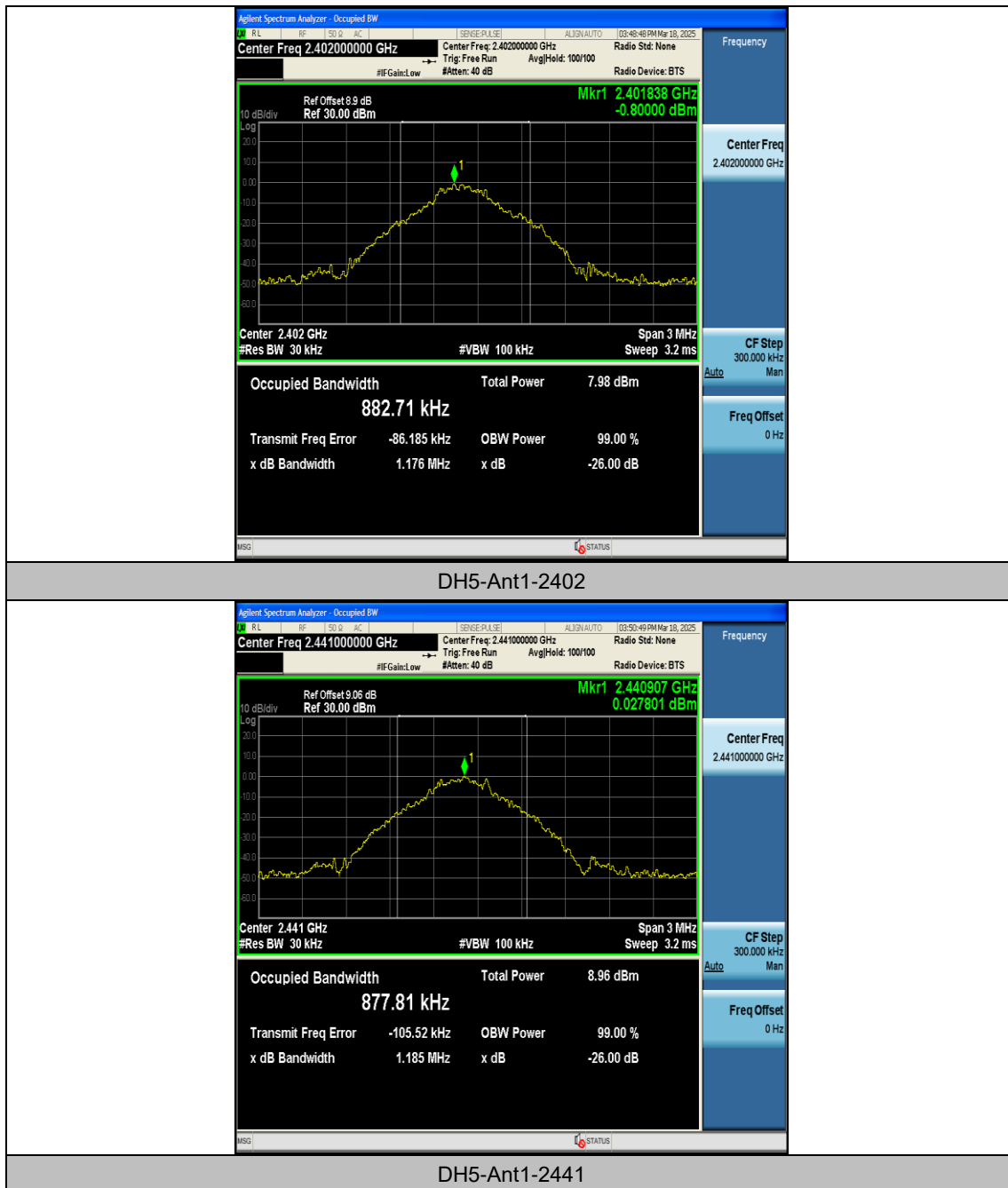
Appendix B: Occupied Channel Bandwidth

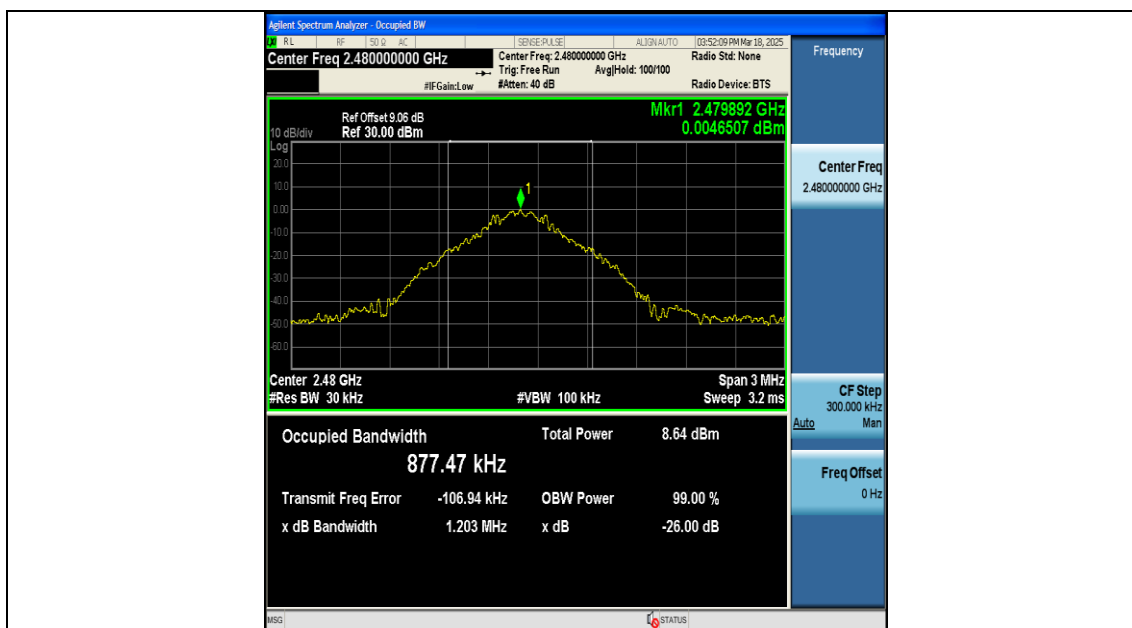
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.88271	2401.4725	2402.3552	---	---
DH5	Ant1	2441	0.87781	2440.4556	2441.3334	---	---
DH5	Ant1	2480	0.87747	2479.4543	2480.3318	---	---
2DH5	Ant1	2402	1.2005	2401.2958	2402.4963	---	---
2DH5	Ant1	2441	1.2080	2440.2942	2441.5022	---	---
2DH5	Ant1	2480	1.2006	2479.2936	2480.4942	---	---
3DH5	Ant1	2402	1.2069	2401.3004	2402.5073	---	---
3DH5	Ant1	2441	1.2123	2440.2854	2441.4977	---	---
3DH5	Ant1	2480	1.1927	2479.2918	2480.4845	---	---

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



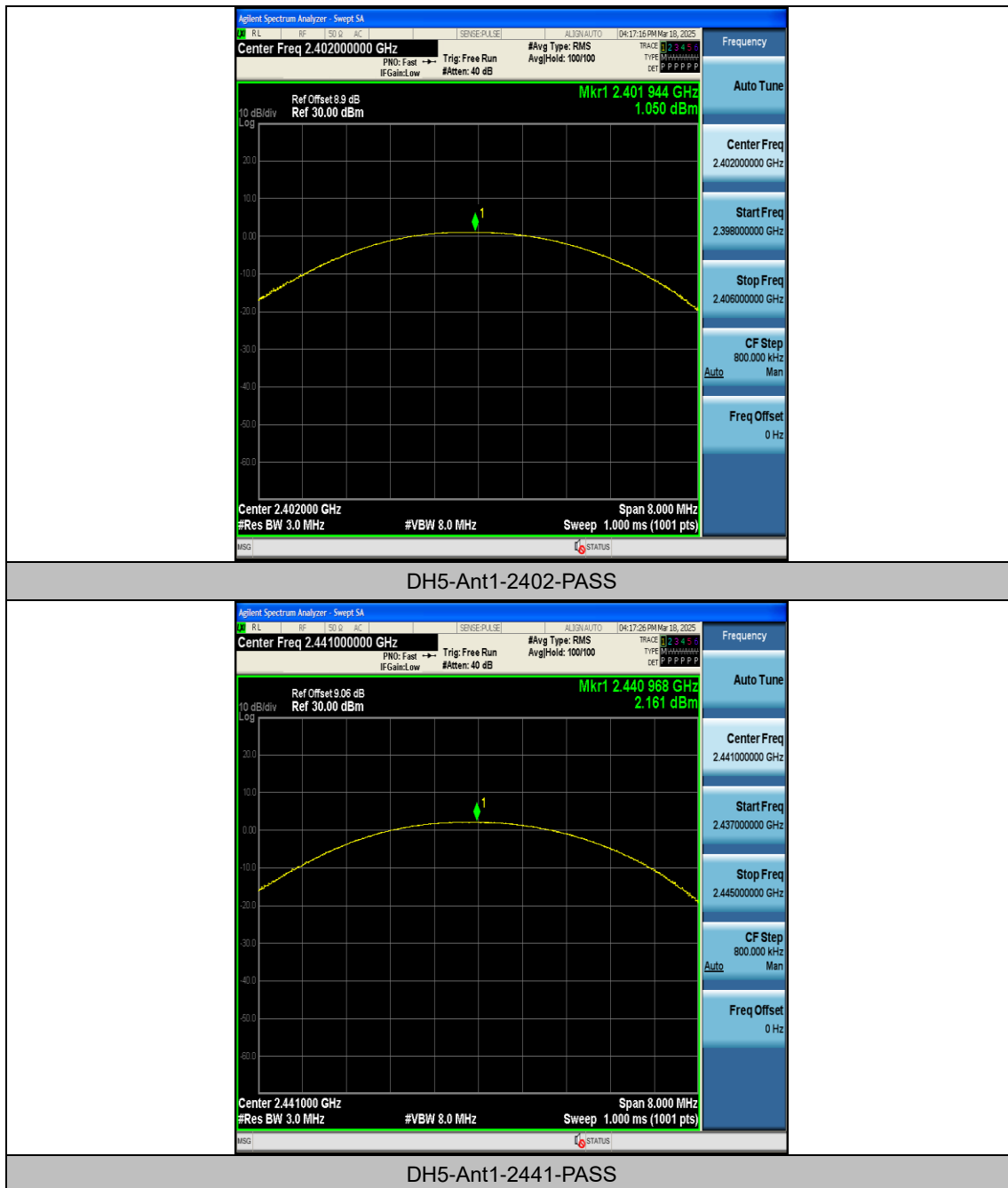
Appendix C: Maximum peak conducted output power

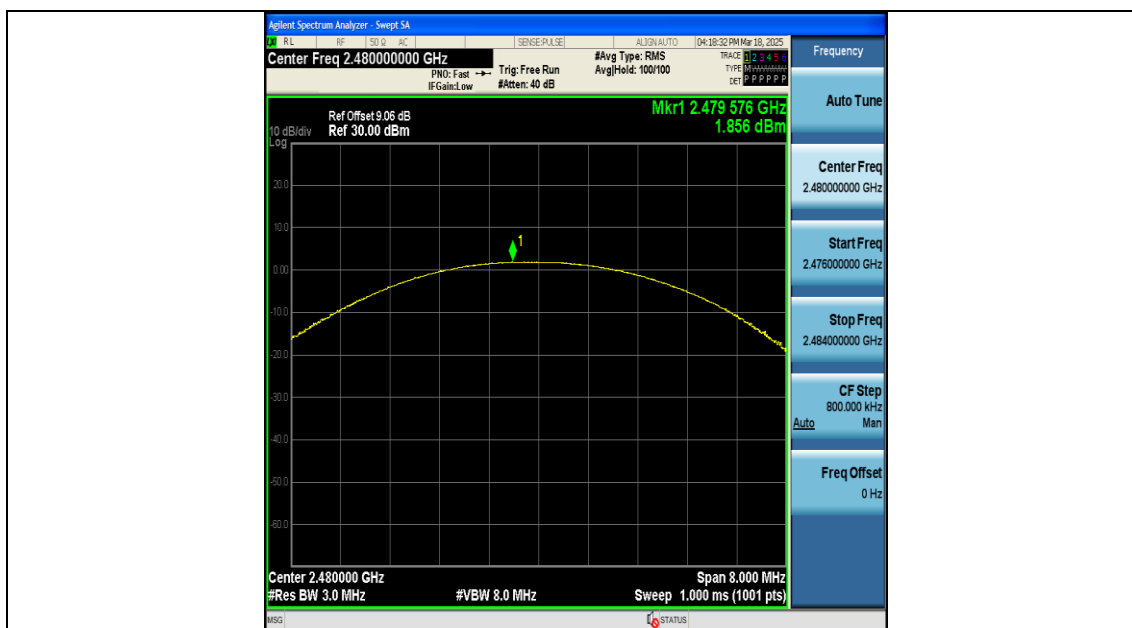
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	1.05	≤30	PASS
DH5	Ant1	2441	2.16	≤30	PASS
DH5	Ant1	2480	1.86	≤30	PASS
2DH5	Ant1	2402	0.97	≤20.97	PASS
2DH5	Ant1	2441	2.09	≤20.97	PASS
2DH5	Ant1	2480	1.84	≤20.97	PASS
3DH5	Ant1	2402	1.32	≤20.97	PASS
3DH5	Ant1	2441	2.42	≤20.97	PASS
3DH5	Ant1	2480	2.26	≤20.97	PASS

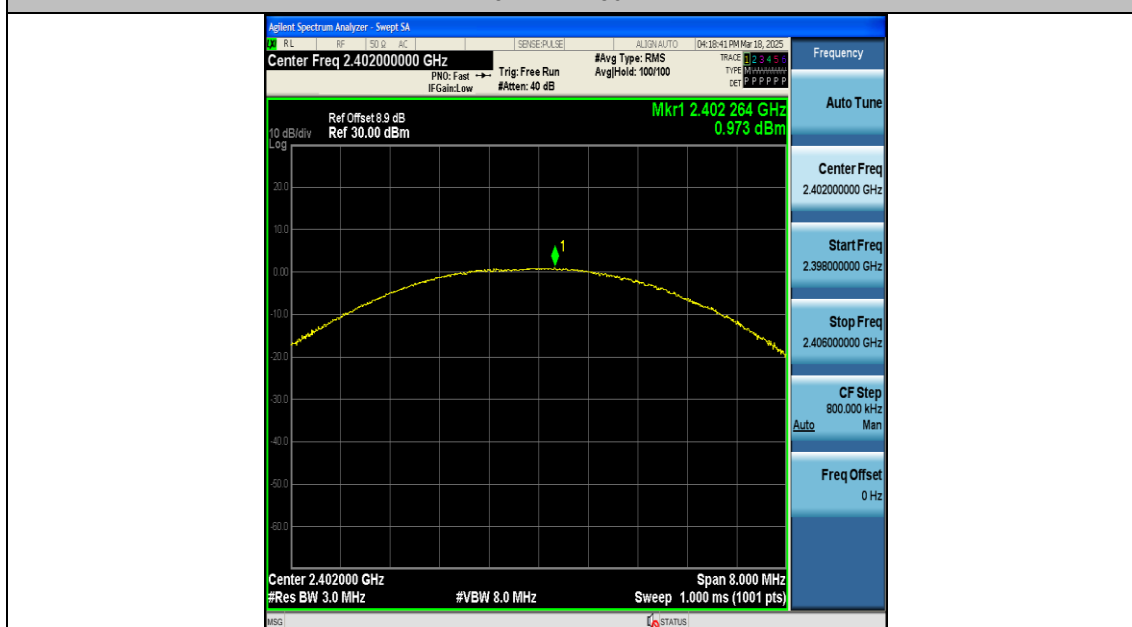
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

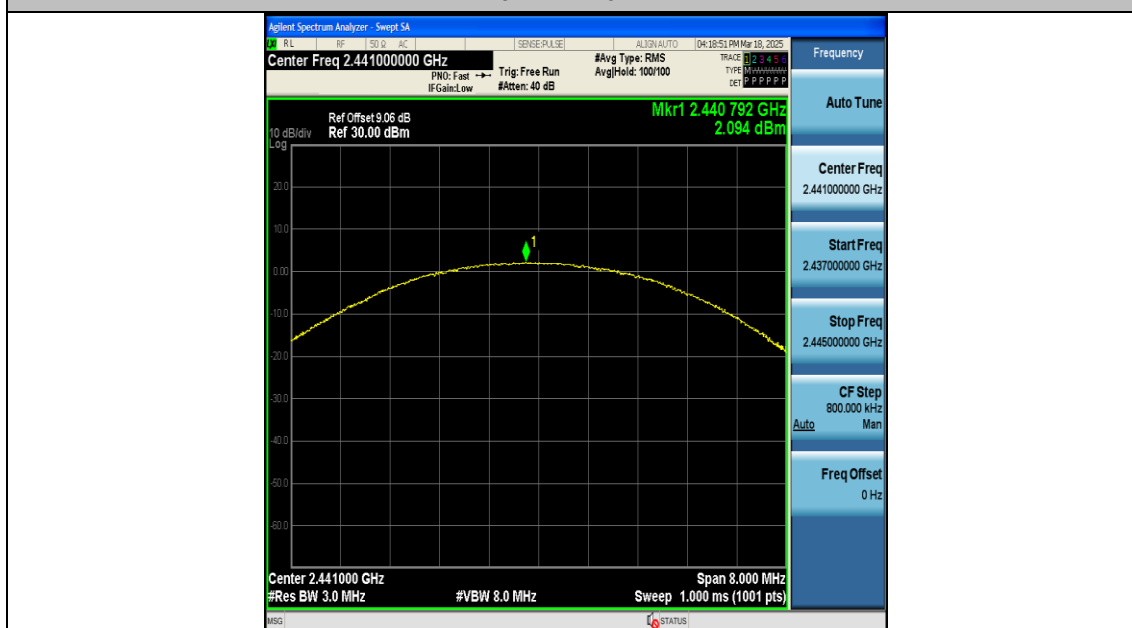




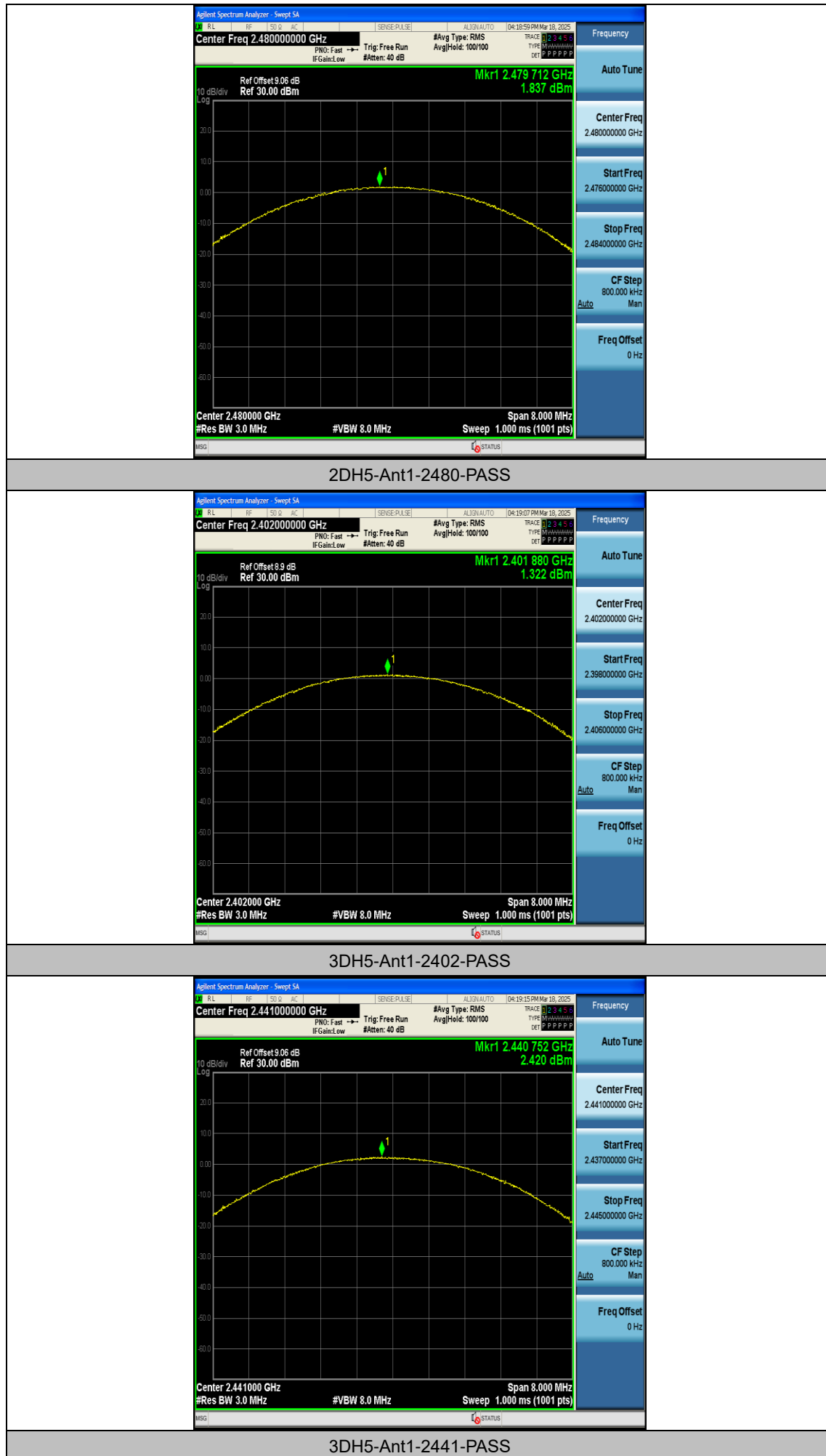
DH5-Ant1-2480-PASS

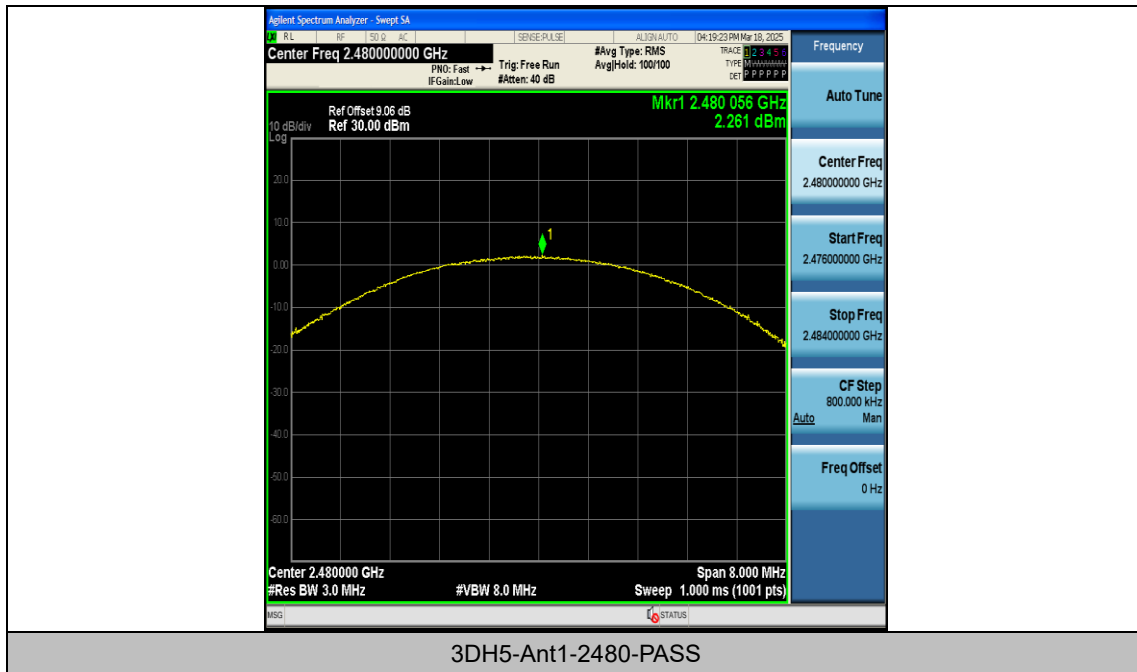


2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS





Appendix D: Carrier frequency separation

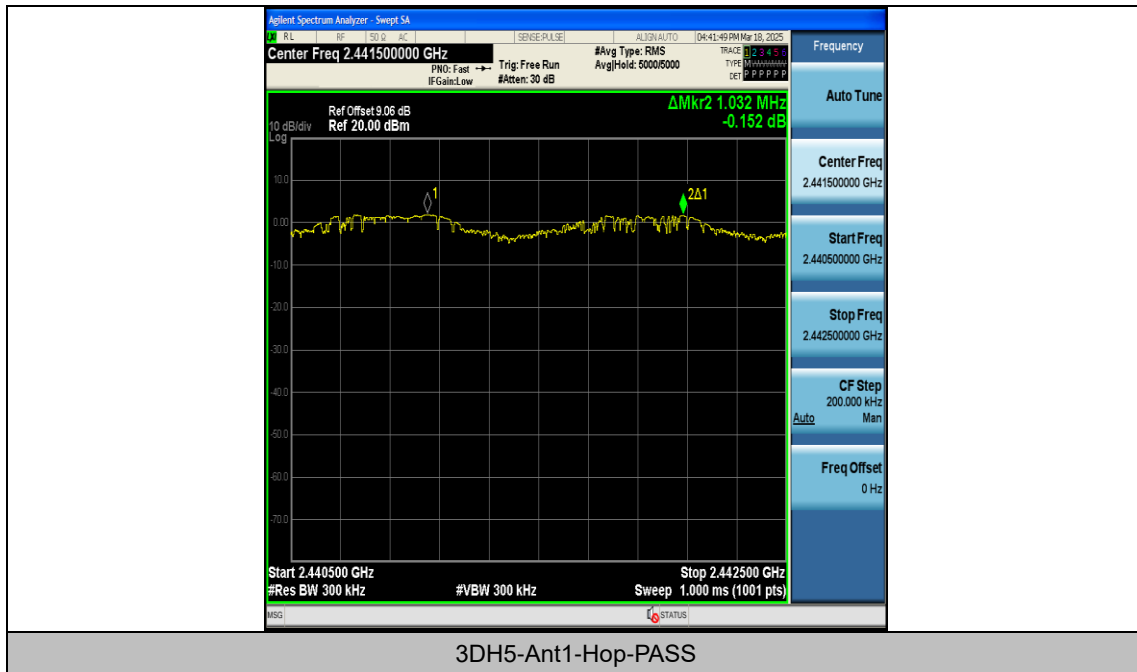
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.972	PASS
2DH5	Ant1	Hop	1.012	≥ 0.870	PASS
3DH5	Ant1	Hop	1.032	≥ 0.874	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





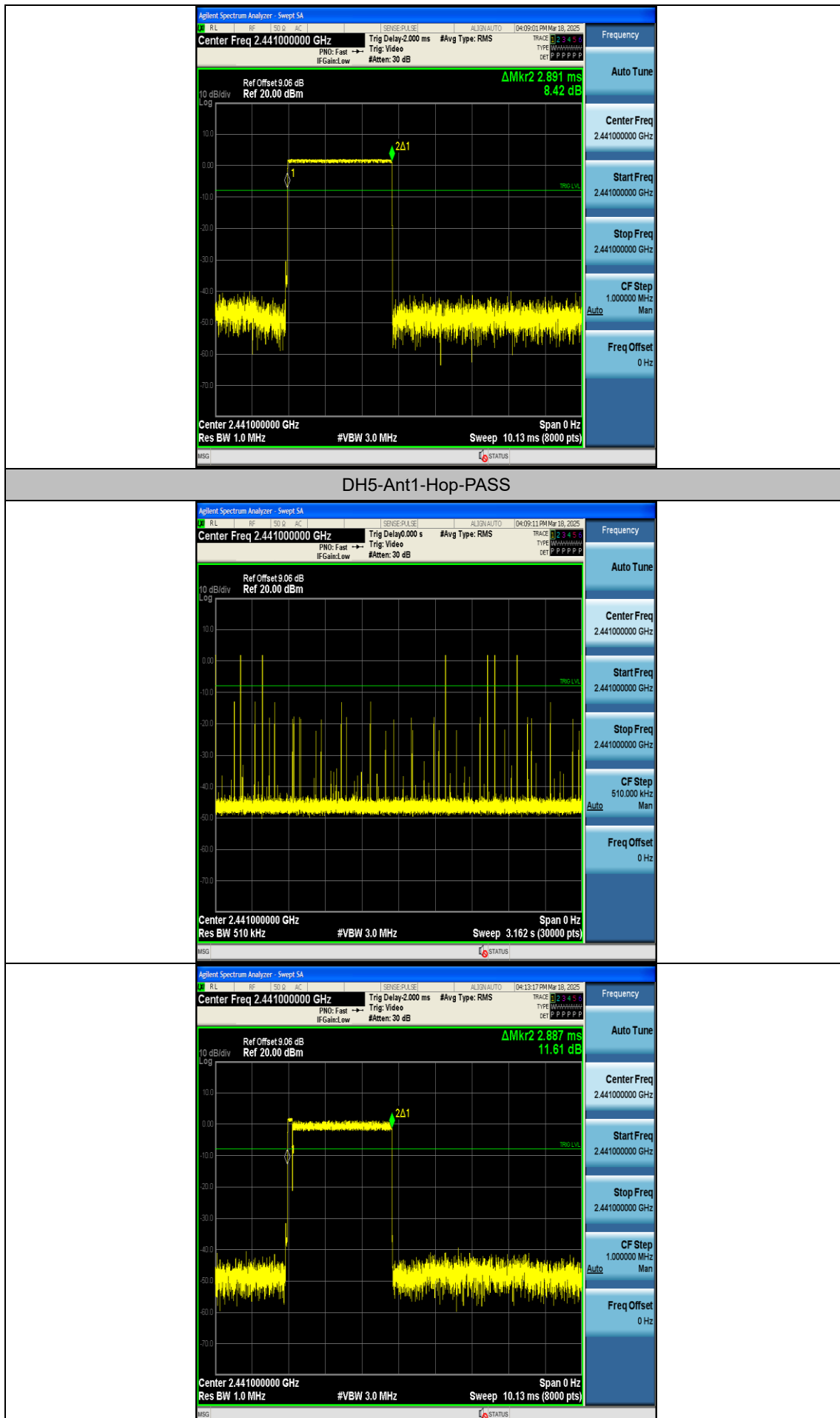
Appendix E: Time of occupancy

Test Result

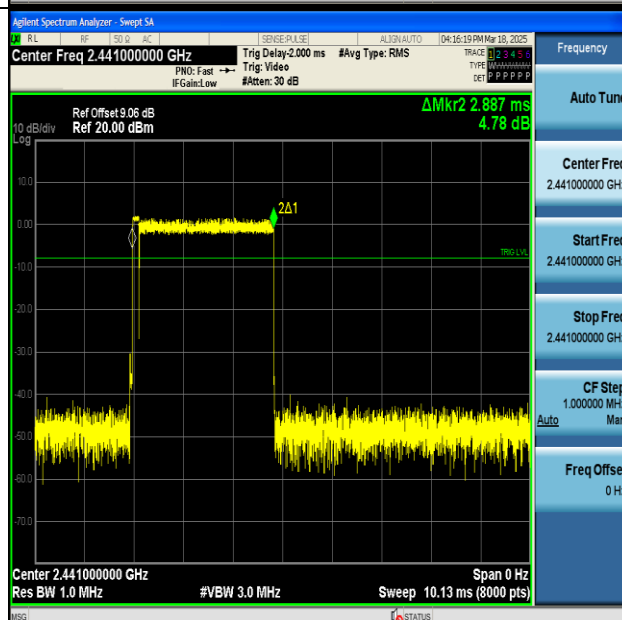
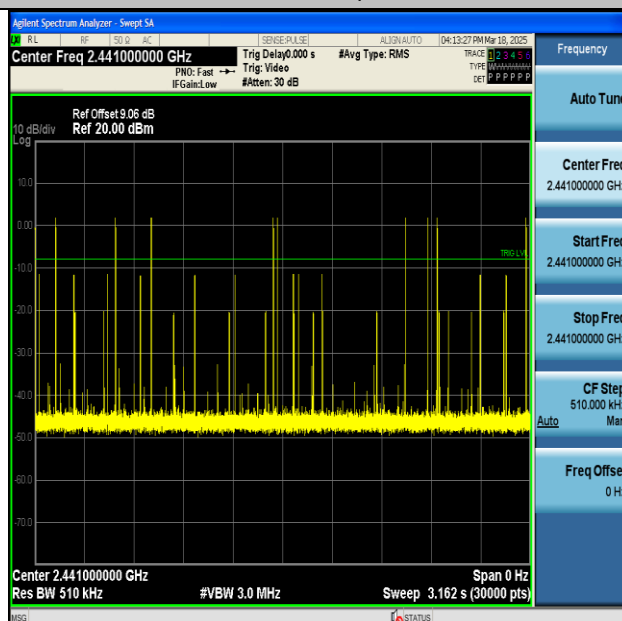
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.891	80	0.231	≤0.4	PASS
2DH5	Ant1	Hop	2.887	100	0.289	≤0.4	PASS
3DH5	Ant1	Hop	2.887	90	0.26	≤0.4	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

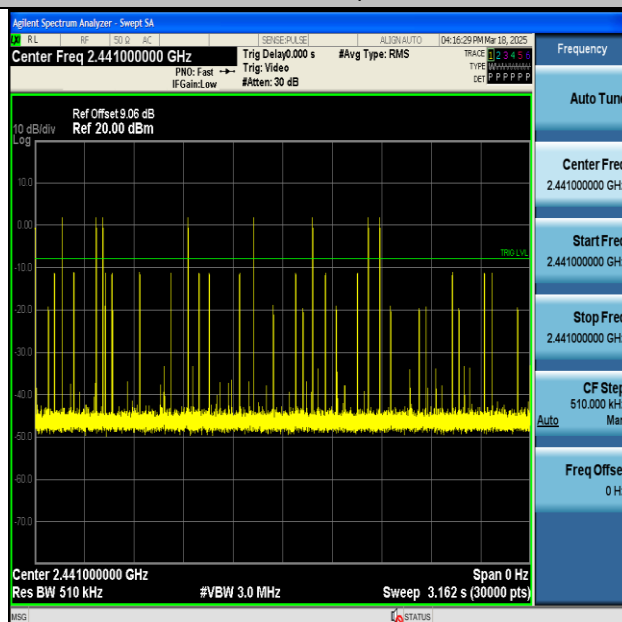
Test Graphs



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



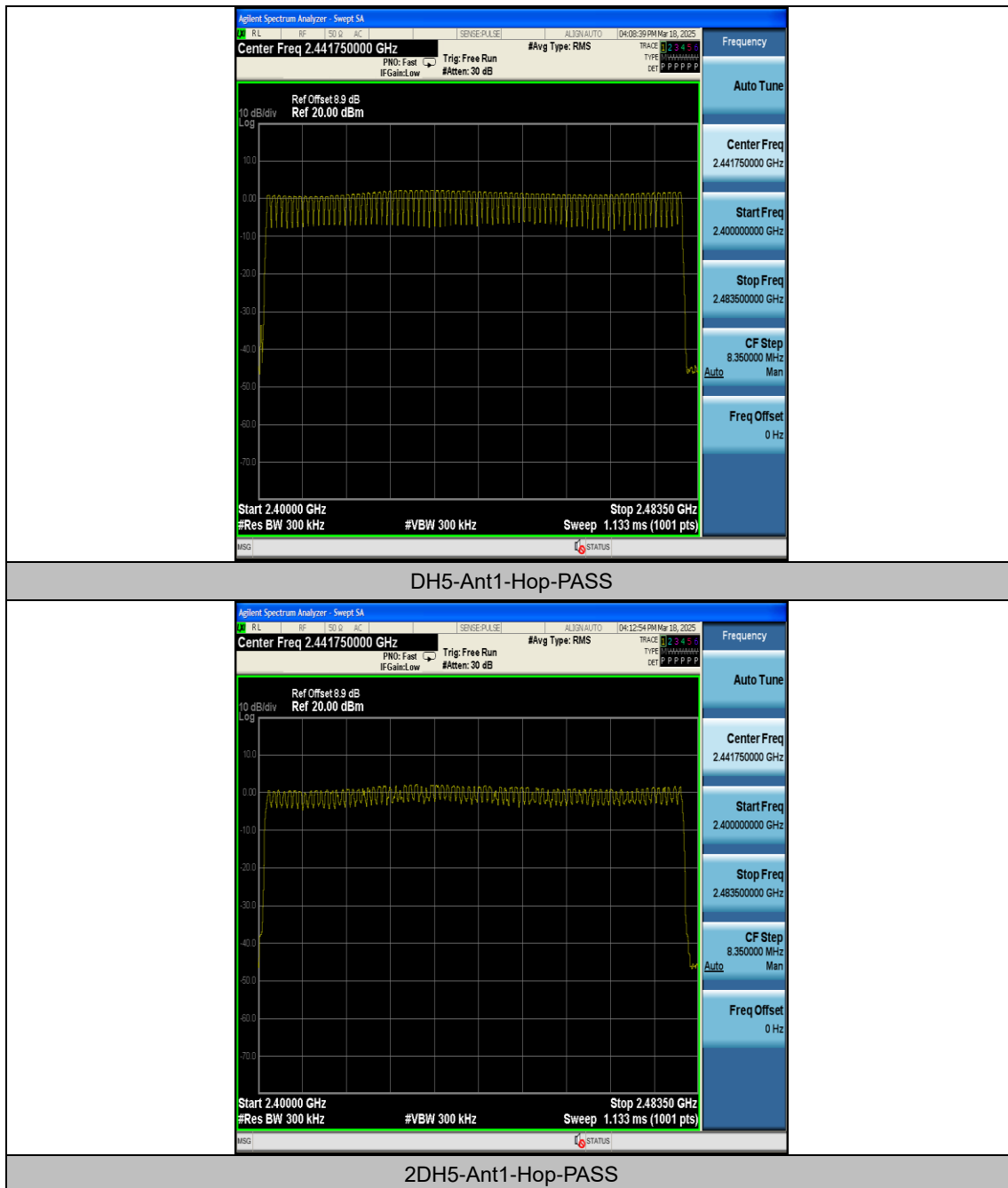
Appendix F: Number of hopping channels

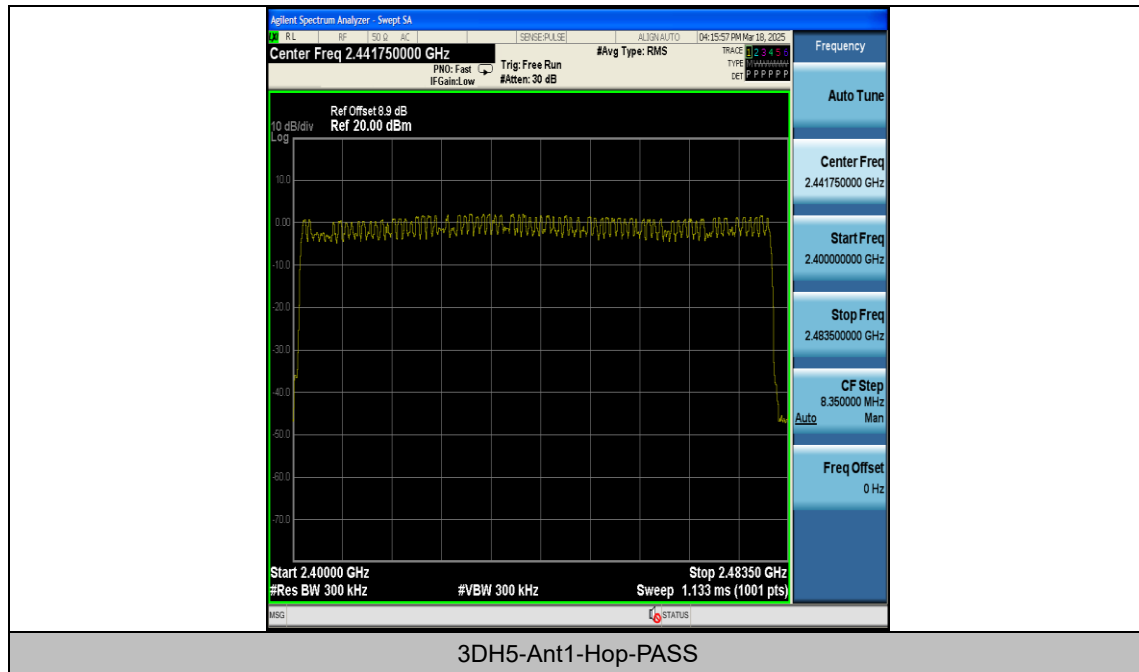
Test Result

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

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





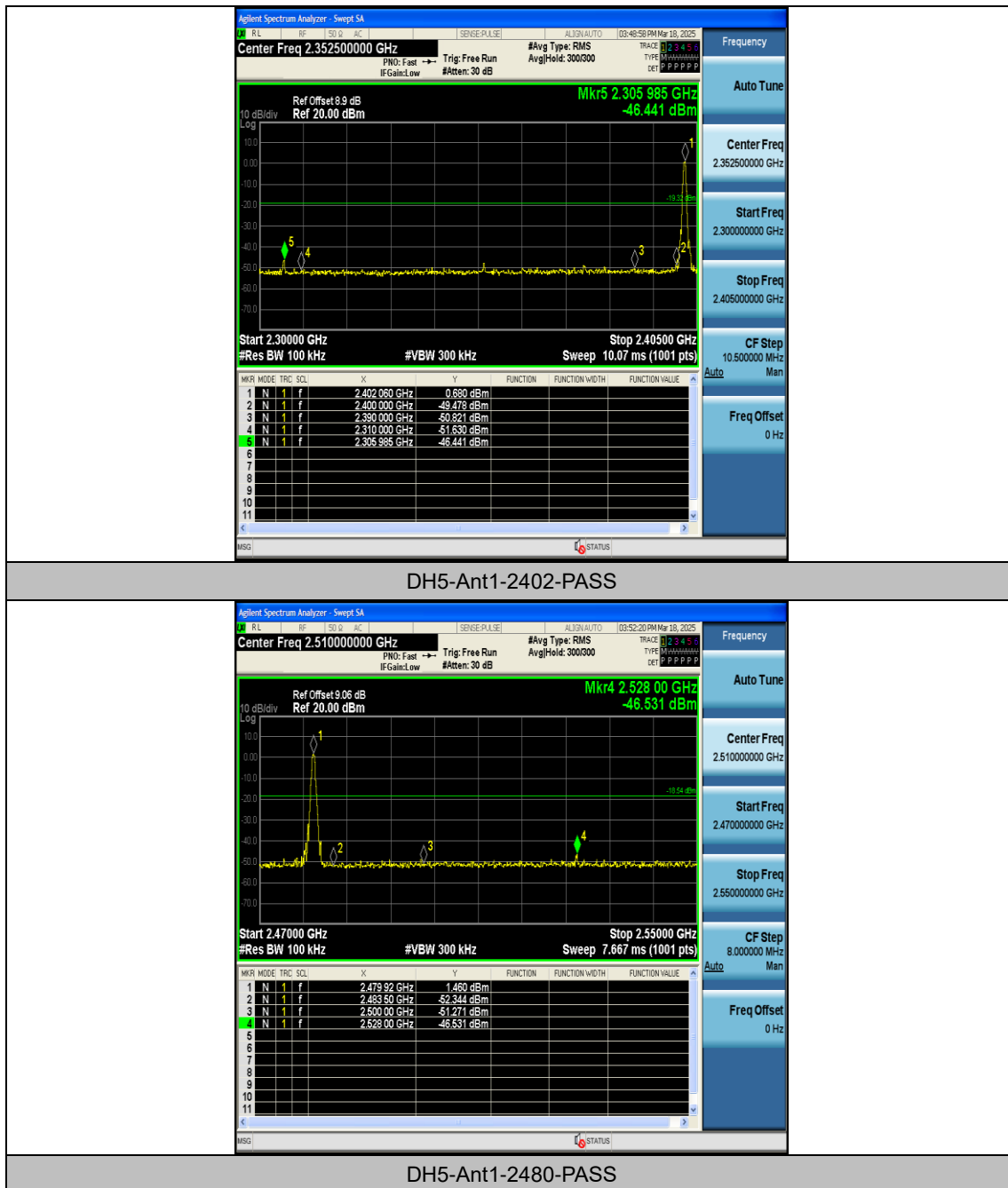
Appendix G: Band edge measurements

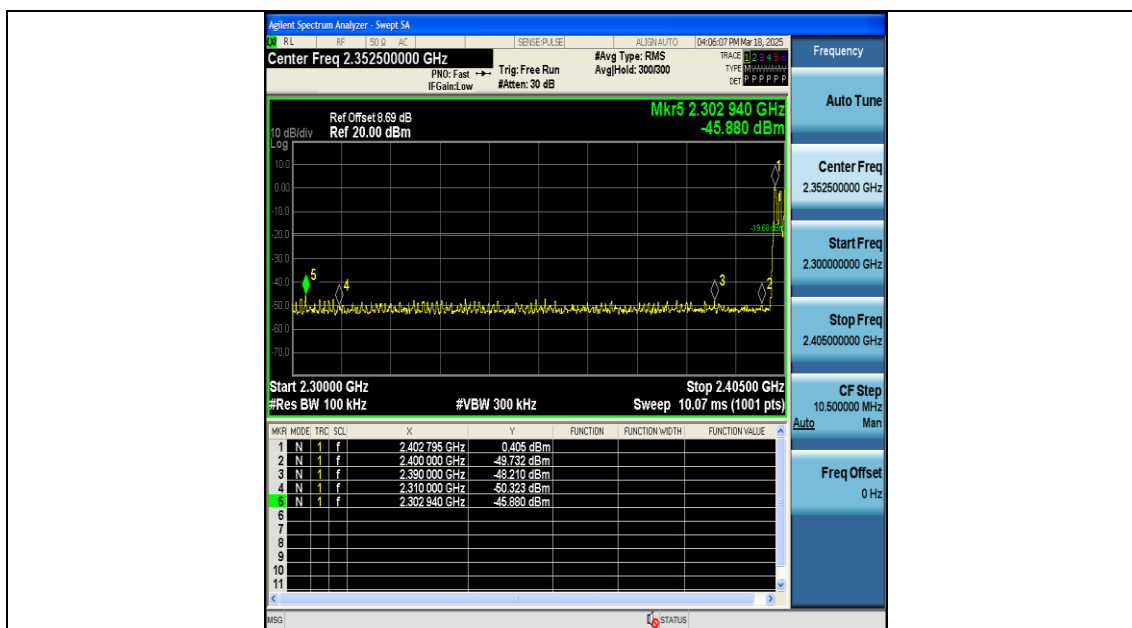
Test Result

Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.68	-46.44	≤-19.32	PASS
DH5	Ant1	High	2480	1.46	-46.53	≤-18.54	PASS
DH5	Ant1	Low	Hop_2402	0.41	-45.88	≤-19.6	PASS
DH5	Ant1	High	Hop_2480	1.07	-43.58	≤-18.93	PASS
2DH5	Ant1	Low	2402	0.43	-47.11	≤-19.58	PASS
2DH5	Ant1	High	2480	1.19	-48.79	≤-18.81	PASS
2DH5	Ant1	Low	Hop_2402	-2.71	-48.7	≤-22.71	PASS
2DH5	Ant1	High	Hop_2480	0.66	-45.9	≤-19.34	PASS
3DH5	Ant1	Low	2402	0.69	-47.14	≤-19.31	PASS
3DH5	Ant1	High	2480	1.63	-47.8	≤-18.37	PASS
3DH5	Ant1	Low	Hop_2402	-5.89	-47.63	≤-25.89	PASS
3DH5	Ant1	High	Hop_2480	0.42	-44.97	≤-19.58	PASS

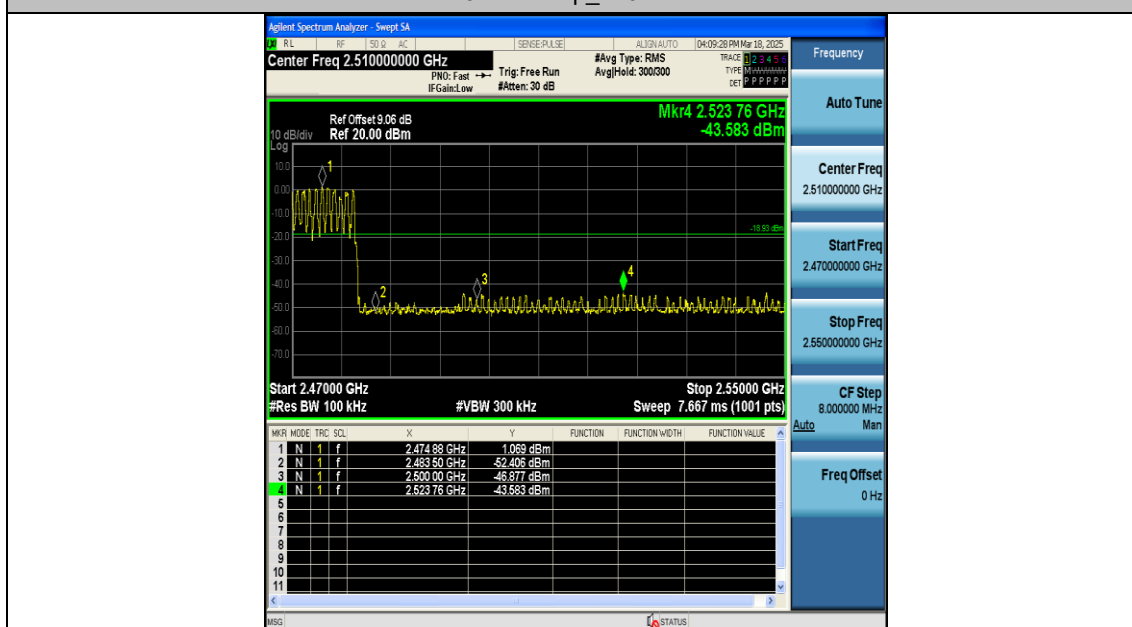
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

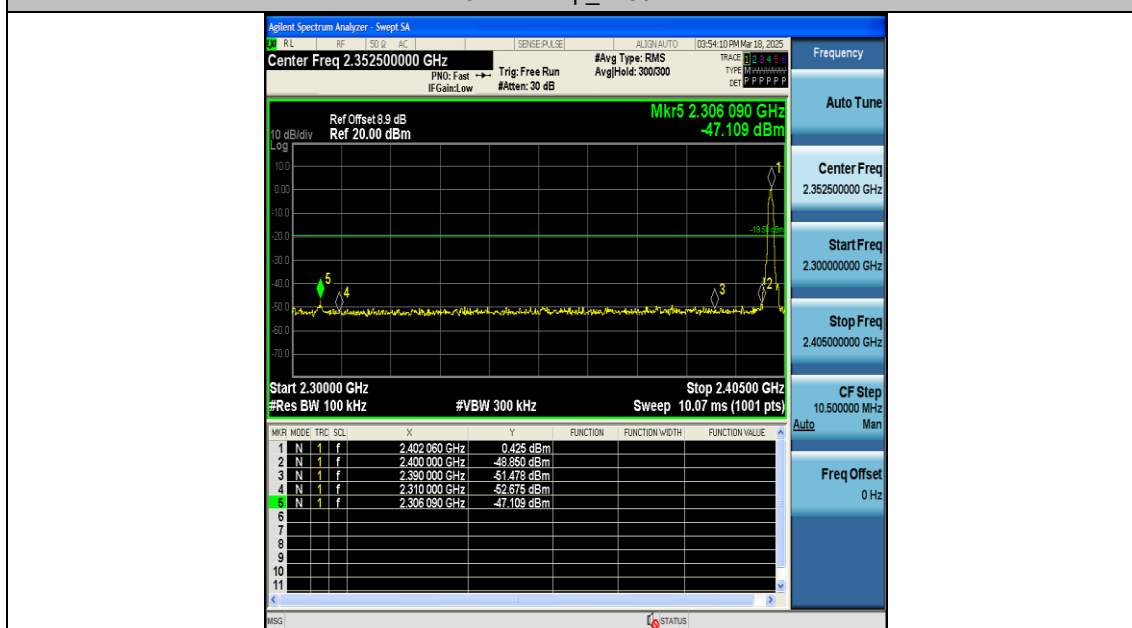




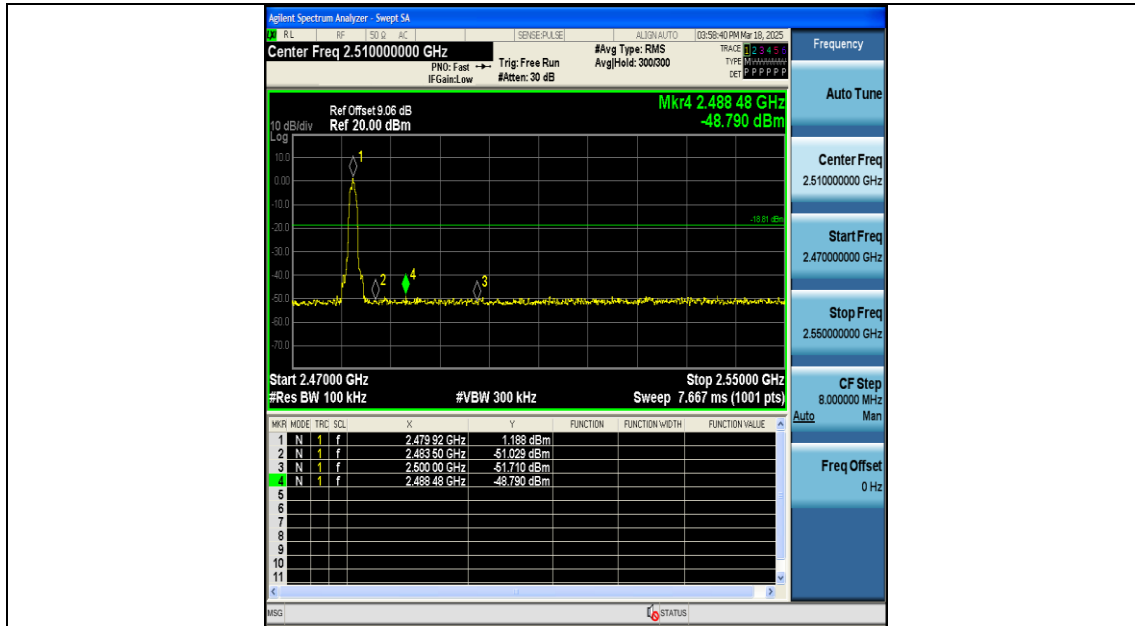
DH5-Ant1-Hop_2402-PASS



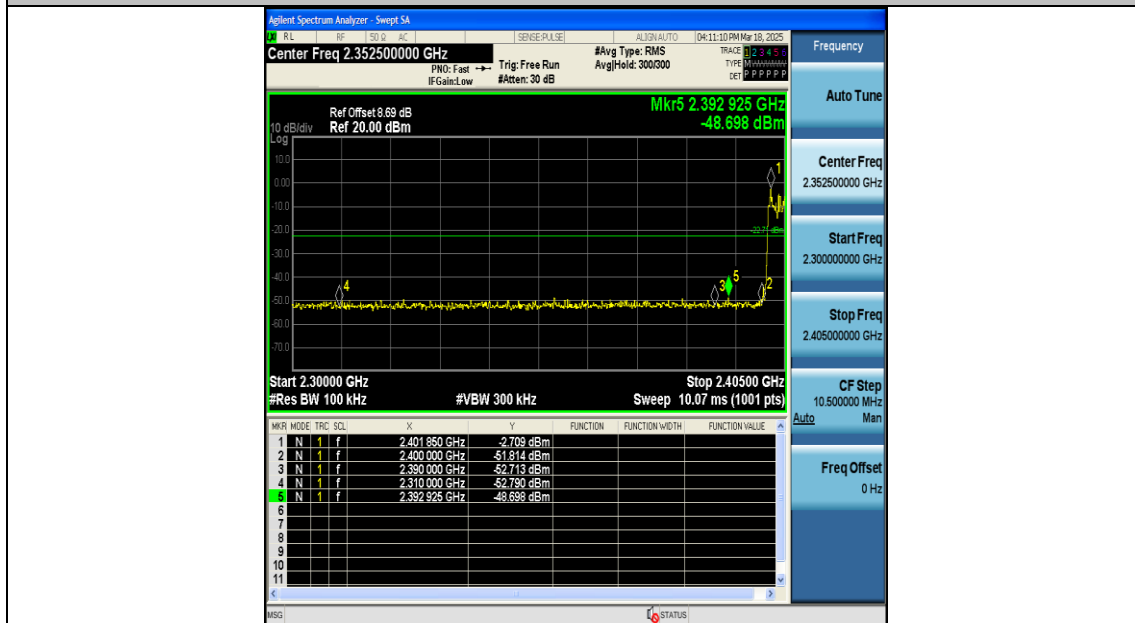
DH5-Ant1-Hop_2480-PASS



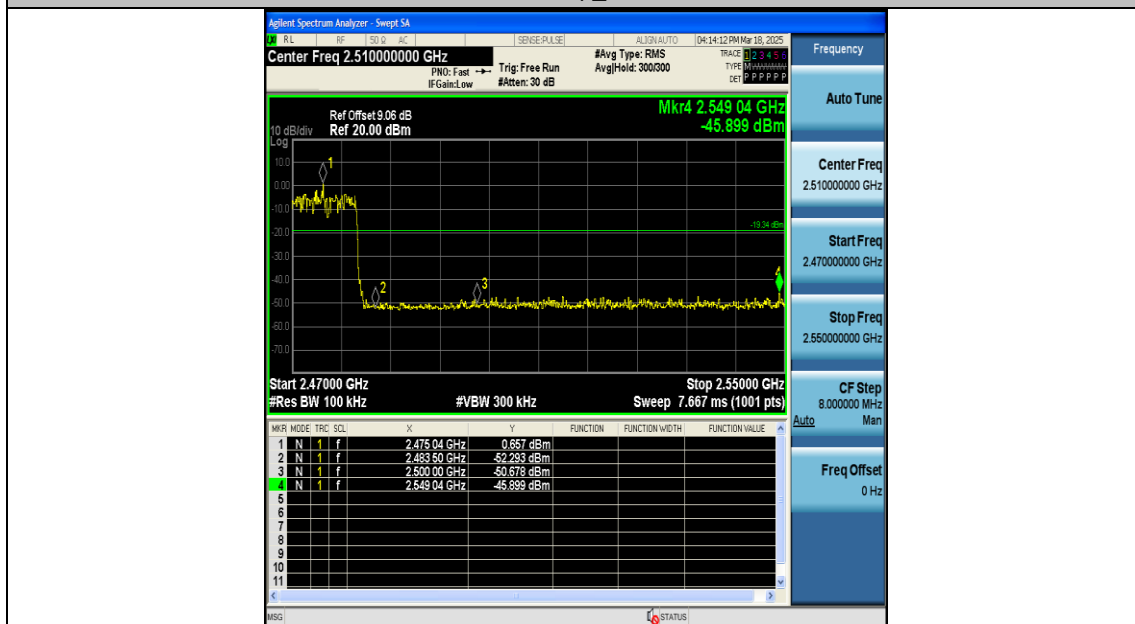
2DH5-Ant1-2402-PASS



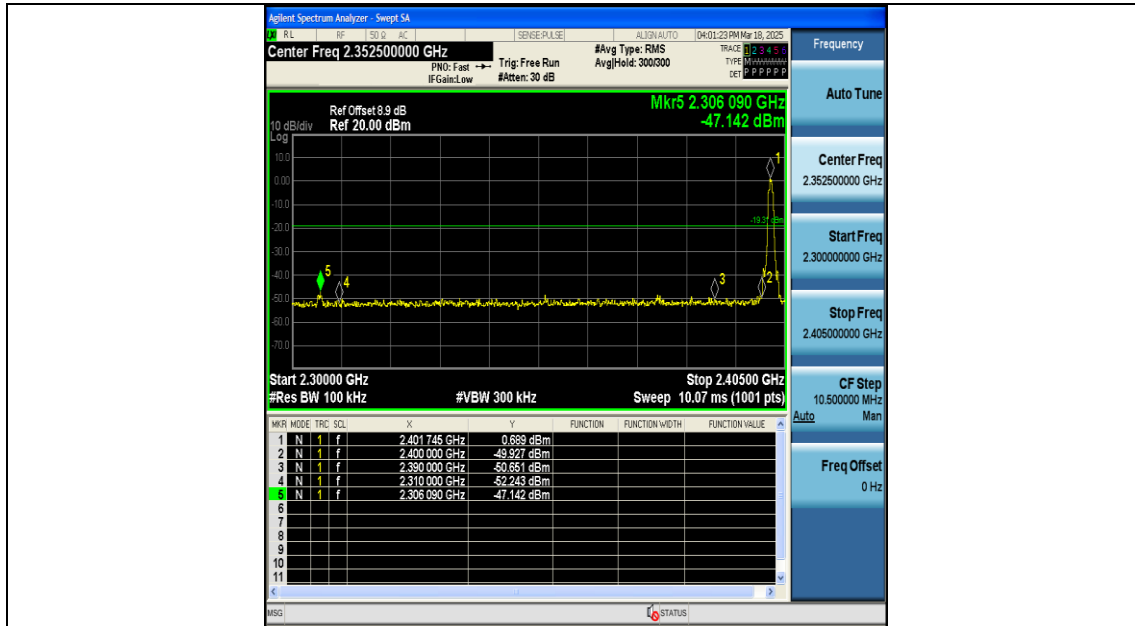
2DH5-Ant1-2480-PASS



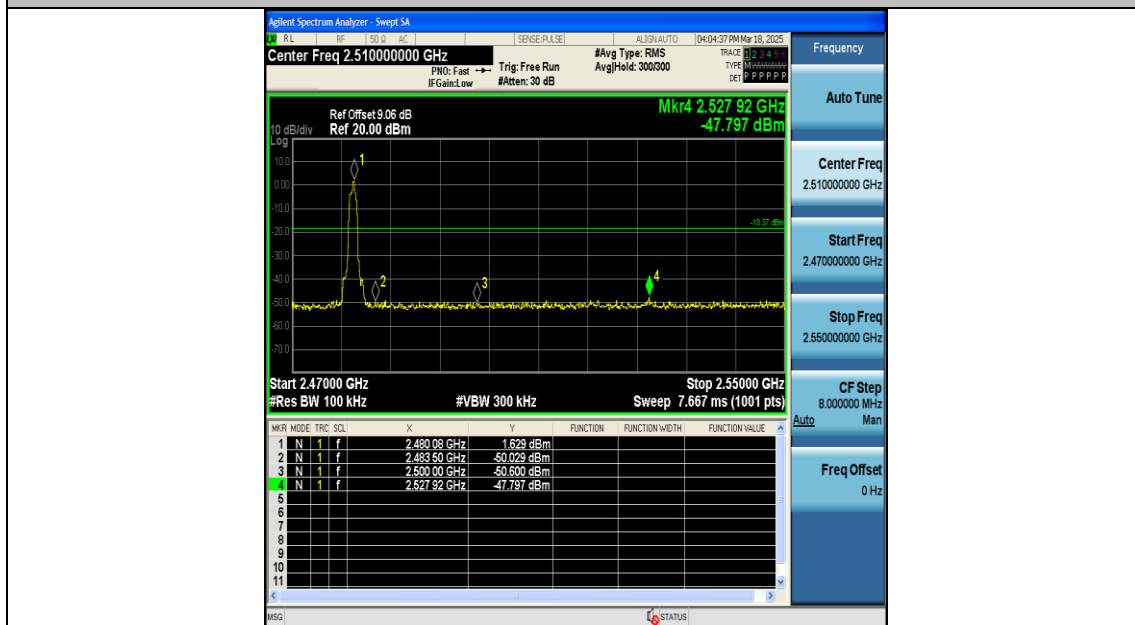
2DH5-Ant1-Hop_2402-PASS



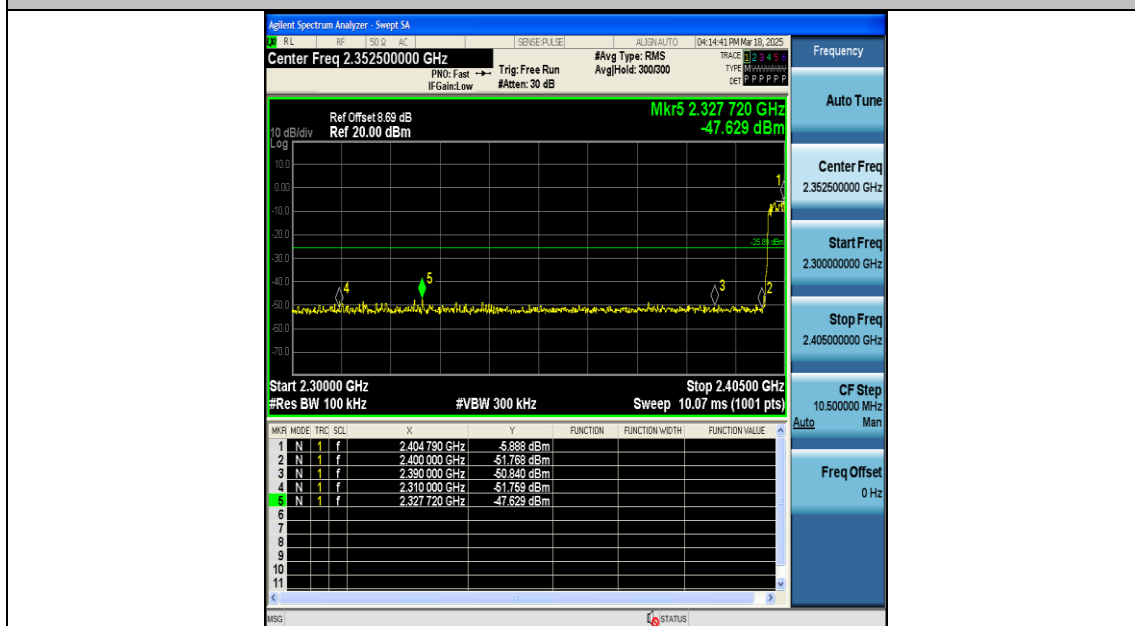
2DH5-Ant1-Hop_2480-PASS



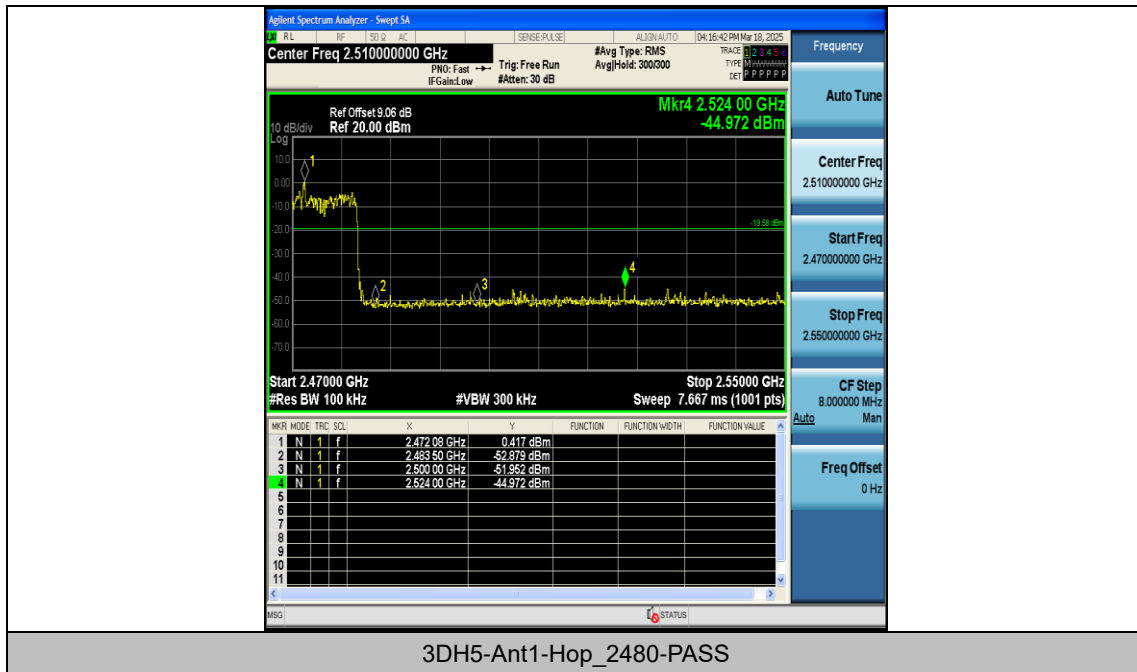
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



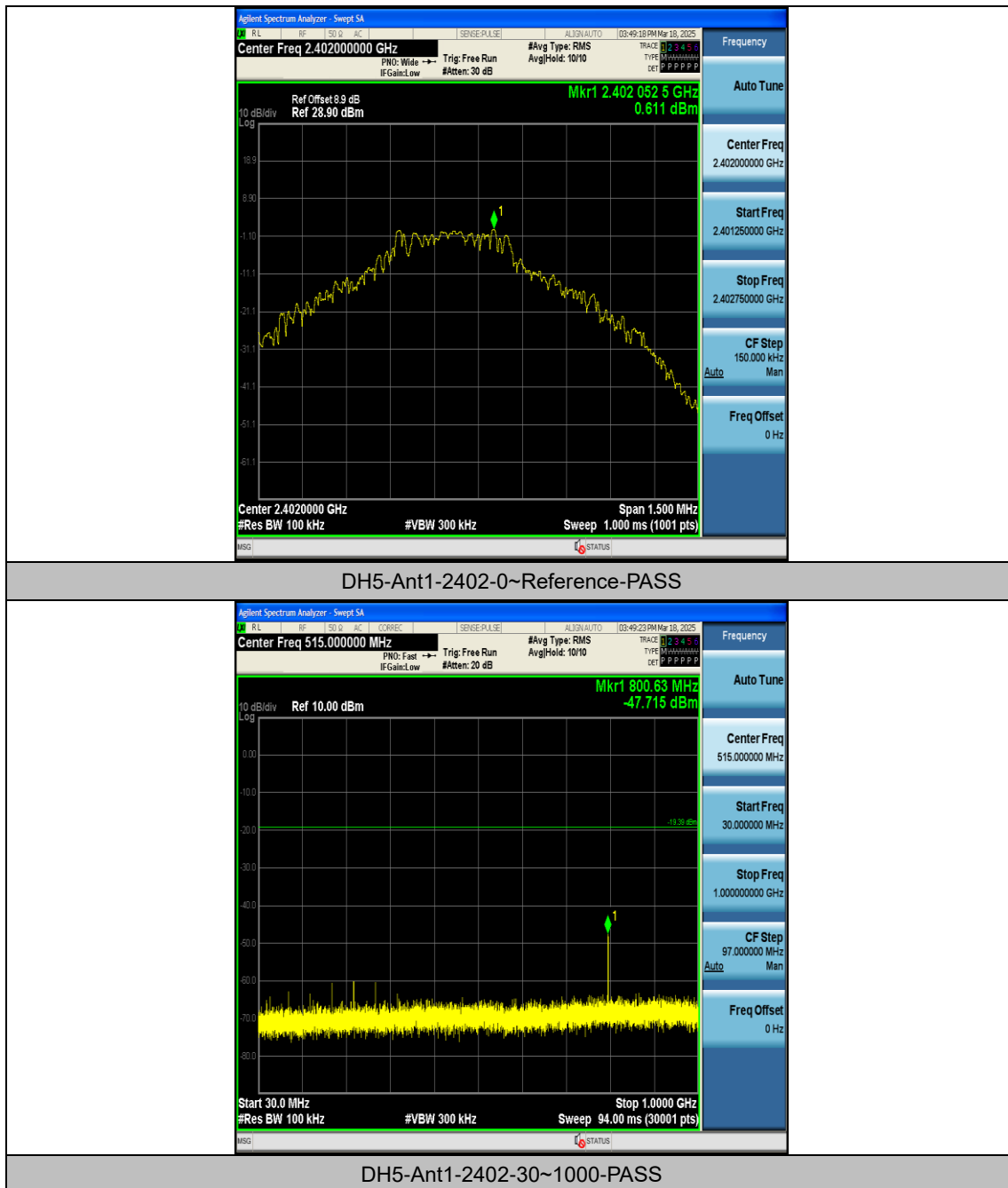
Appendix H: Conducted Spurious Emission

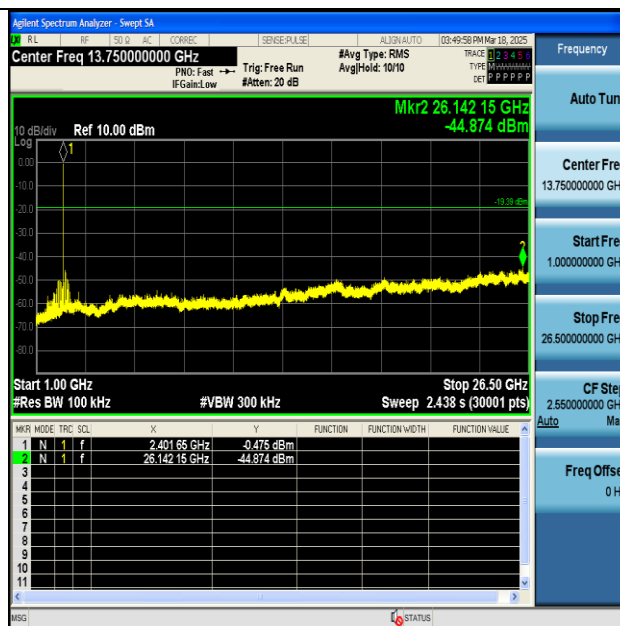
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	0.61	0.61	---	PASS
DH5	Ant1	2402	30~1000	0.61	-47.72	≤-19.39	PASS
DH5	Ant1	2402	1000~26500	0.61	-44.87	≤-19.39	PASS
DH5	Ant1	2441	0~Reference	1.28	1.28	---	PASS
DH5	Ant1	2441	30~1000	1.28	-46.57	≤-18.72	PASS
DH5	Ant1	2441	1000~26500	1.28	-45.34	≤-18.72	PASS
DH5	Ant1	2480	0~Reference	1.44	1.44	---	PASS
DH5	Ant1	2480	30~1000	1.44	-49.42	≤-18.56	PASS
DH5	Ant1	2480	1000~26500	1.44	-45.15	≤-18.56	PASS
2DH5	Ant1	2402	0~Reference	-3.41	-3.41	---	PASS
2DH5	Ant1	2402	30~1000	-3.41	-50.41	≤-23.41	PASS
2DH5	Ant1	2402	1000~26500	-3.41	-44.97	≤-23.41	PASS
2DH5	Ant1	2441	0~Reference	-3.57	-3.57	---	PASS
2DH5	Ant1	2441	30~1000	-3.57	-51.14	≤-23.57	PASS
2DH5	Ant1	2441	1000~26500	-3.57	-45.28	≤-23.57	PASS
2DH5	Ant1	2480	0~Reference	-0.02	-0.02	---	PASS
2DH5	Ant1	2480	30~1000	-0.02	-53.03	≤-20.02	PASS
2DH5	Ant1	2480	1000~26500	-0.02	-44.65	≤-20.02	PASS
3DH5	Ant1	2402	0~Reference	-4.62	-4.62	---	PASS
3DH5	Ant1	2402	30~1000	-4.62	-50.64	≤-24.62	PASS
3DH5	Ant1	2402	1000~26500	-4.62	-45.31	≤-24.62	PASS
3DH5	Ant1	2441	0~Reference	1.59	1.59	---	PASS
3DH5	Ant1	2441	30~1000	1.59	-49.31	≤-18.41	PASS
3DH5	Ant1	2441	1000~26500	1.59	-44.59	≤-18.41	PASS
3DH5	Ant1	2480	0~Reference	1.35	1.35	---	PASS
3DH5	Ant1	2480	30~1000	1.35	-54.38	≤-18.65	PASS
3DH5	Ant1	2480	1000~26500	1.35	-45.67	≤-18.65	PASS

Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

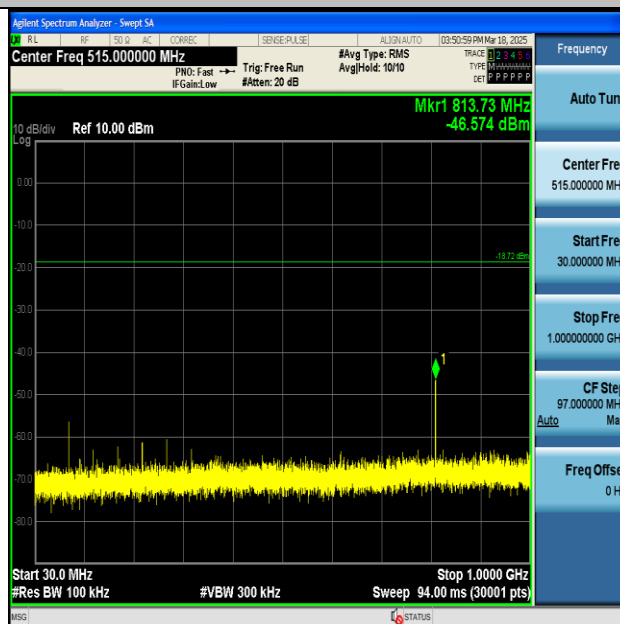




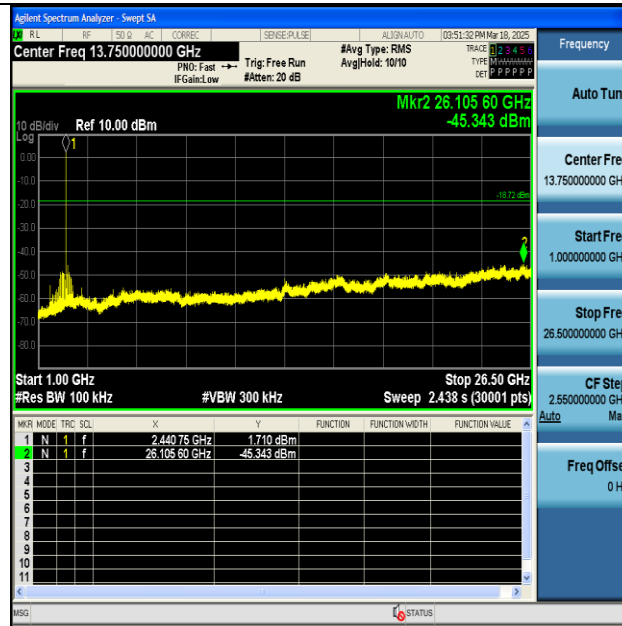
DH5-Ant1-2402-1000~26500-PASS



DH5-Ant1-2441-0~Reference-PASS



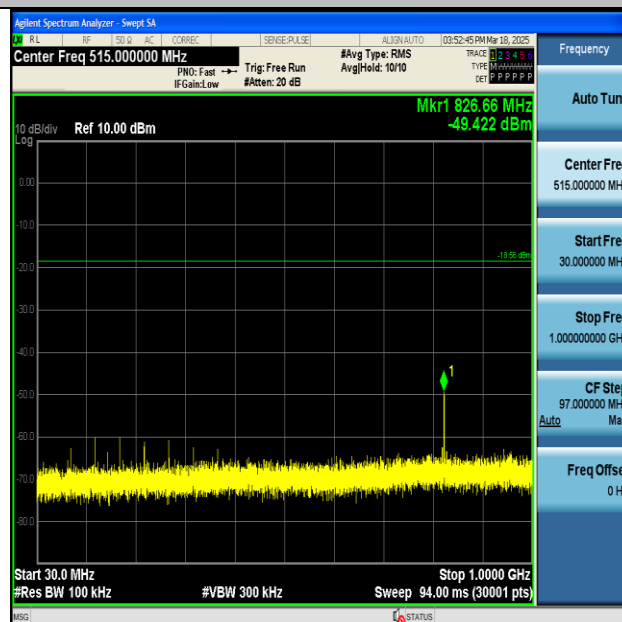
DH5-Ant1-2441-30~1000-PASS



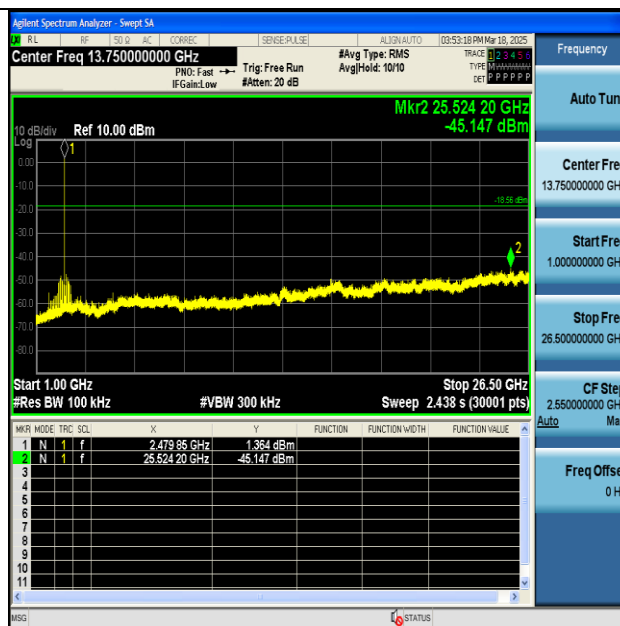
DH5-Ant1-2441-1000~26500-PASS



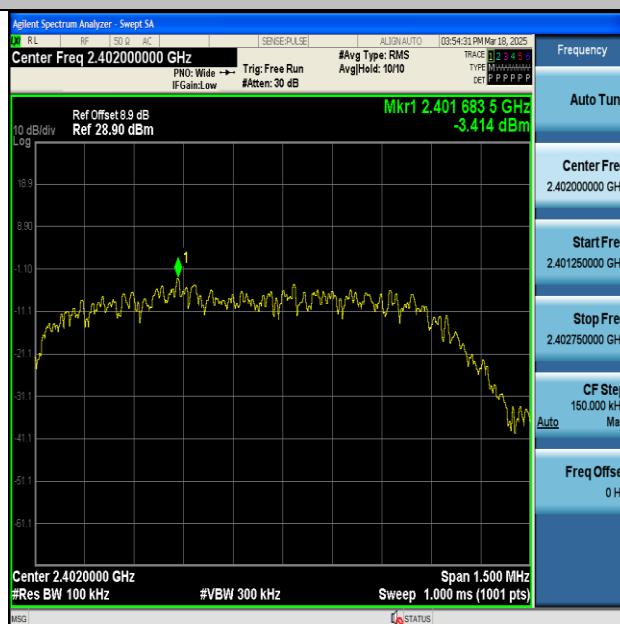
DH5-Ant1-2480-0~Reference-PASS



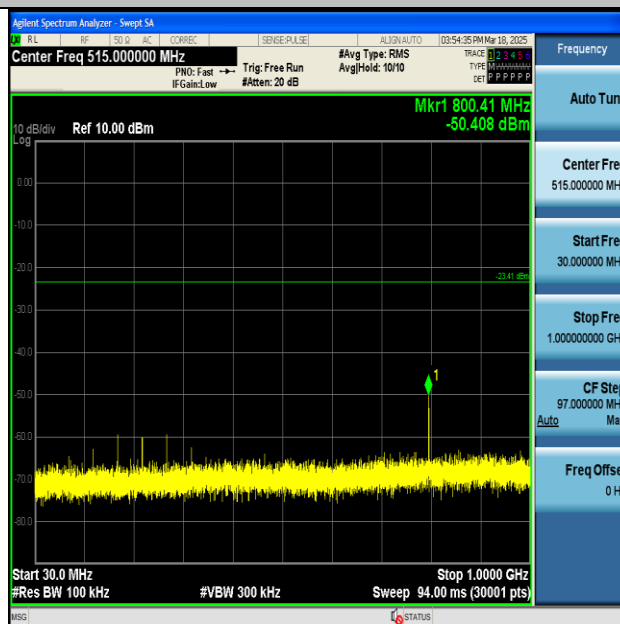
DH5-Ant1-2480-30~1000-PASS



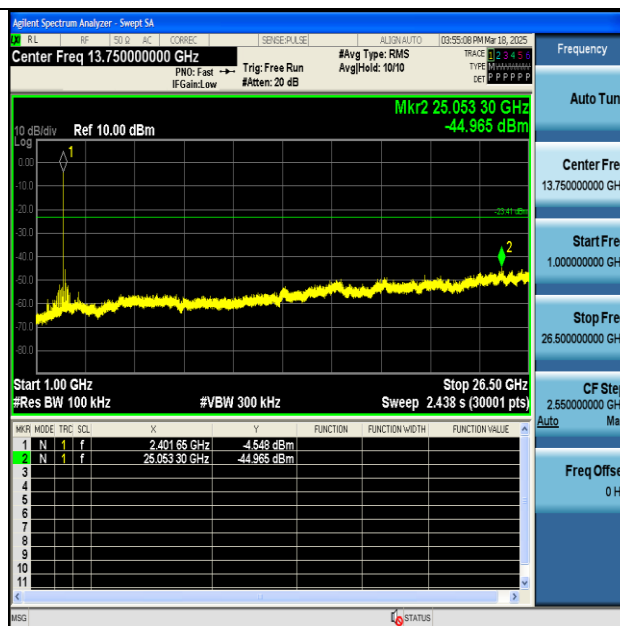
DH5-Ant1-2480-1000~26500-PASS



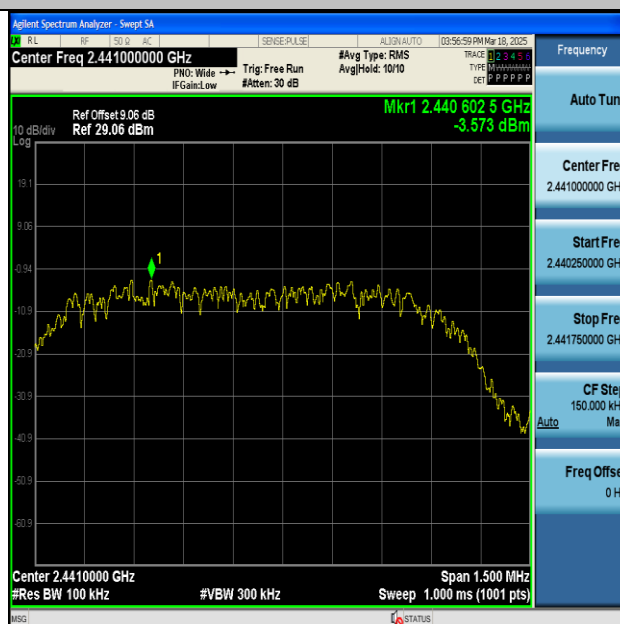
2DH5-Ant1-2402-0~Reference-PASS



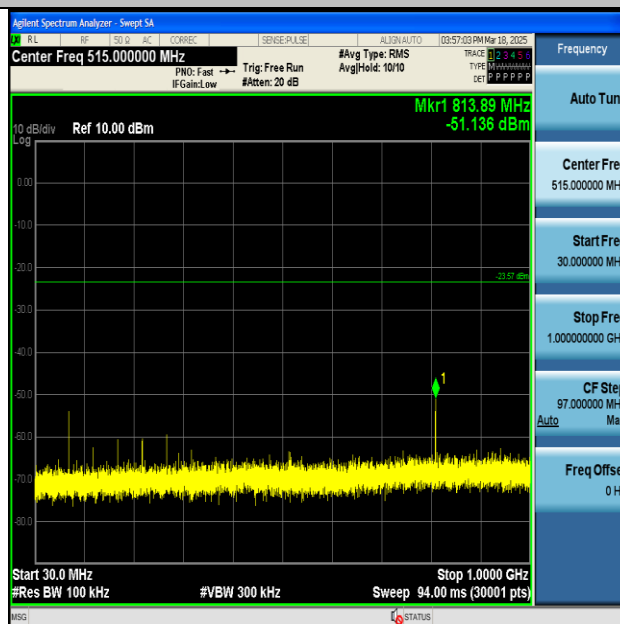
2DH5-Ant1-2402-30~1000-PASS



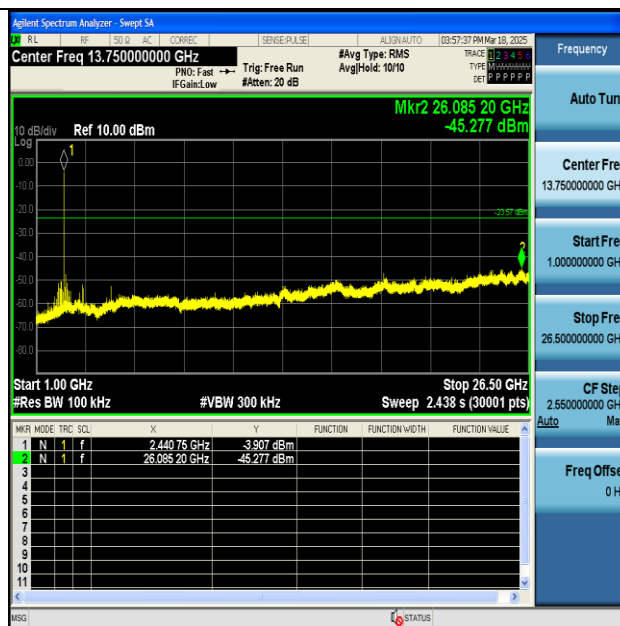
2DH5-Ant1-2402-1000~26500-PASS



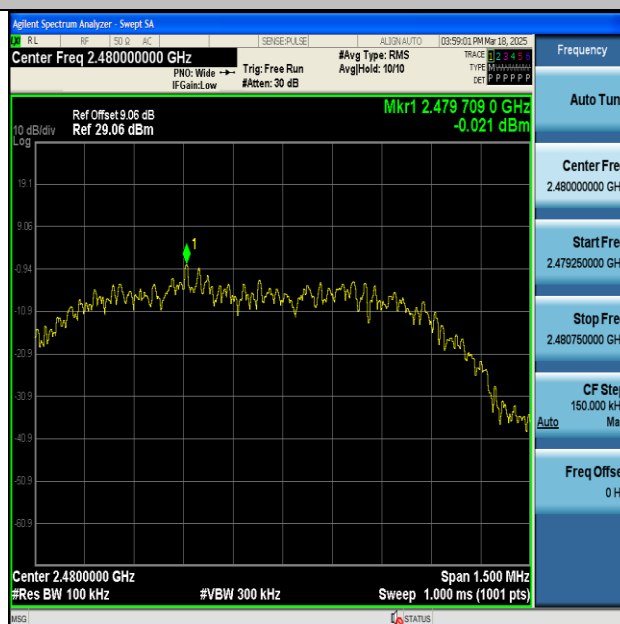
2DH5-Ant1-2441-0~Reference-PASS



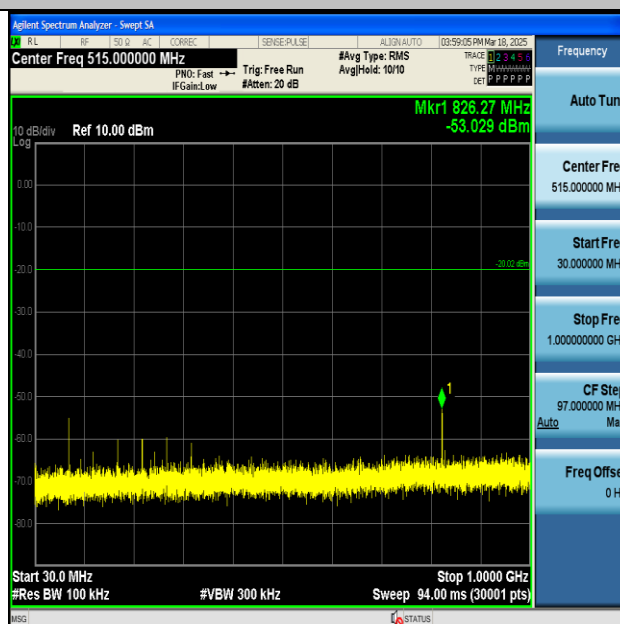
2DH5-Ant1-2441-30~1000-PASS



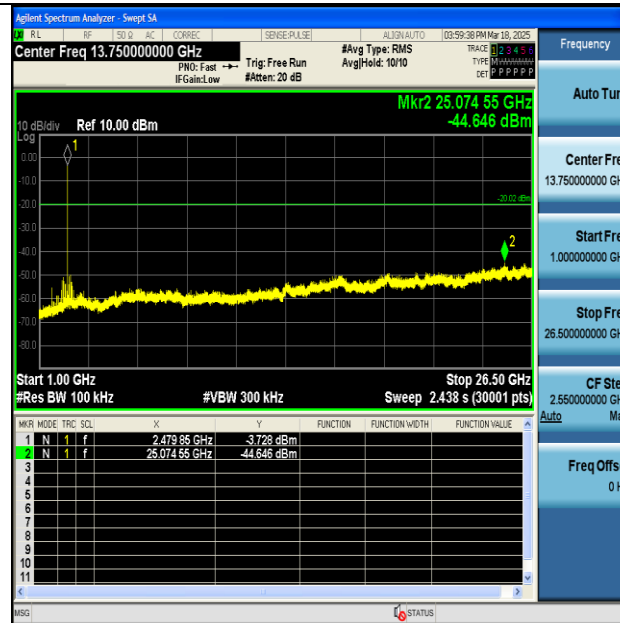
2DH5-Ant1-2441-1000~26500-PASS



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



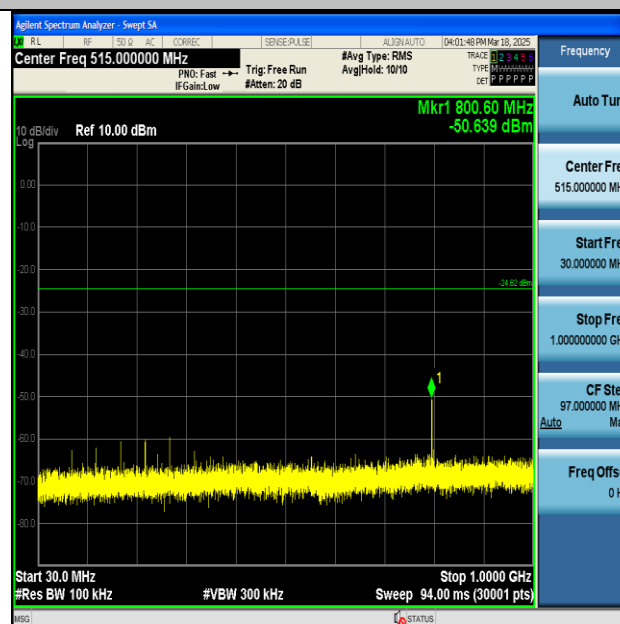
2DH5-Ant1-2480-30~1000-PASS



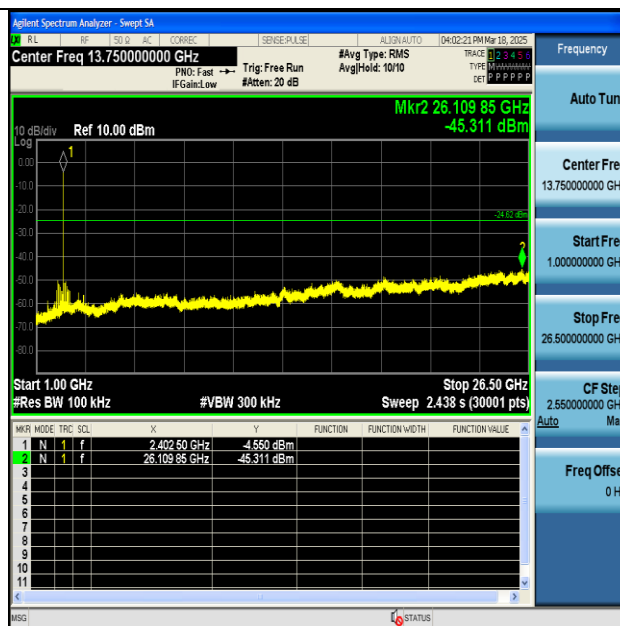
2DH5-Ant1-2480-1000~26500-PASS



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



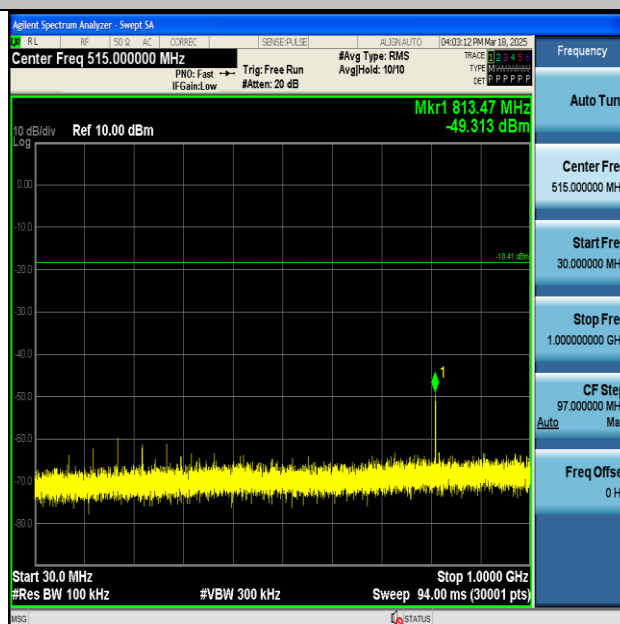
3DH5-Ant1-2402-30~1000-PASS



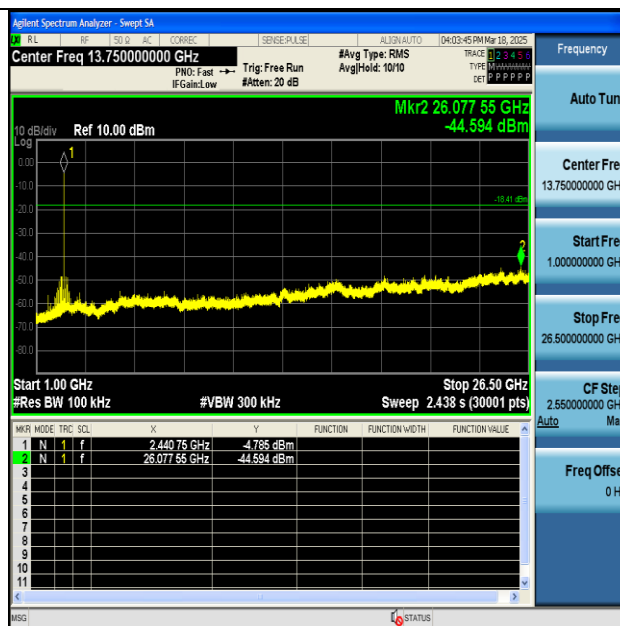
3DH5-Ant1-2402-1000~26500-PASS



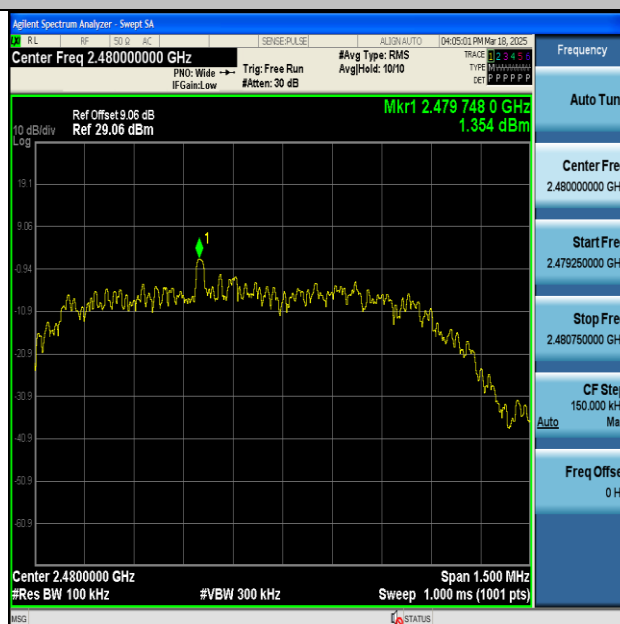
3DH5-Ant1-2441-0~Reference-PASS



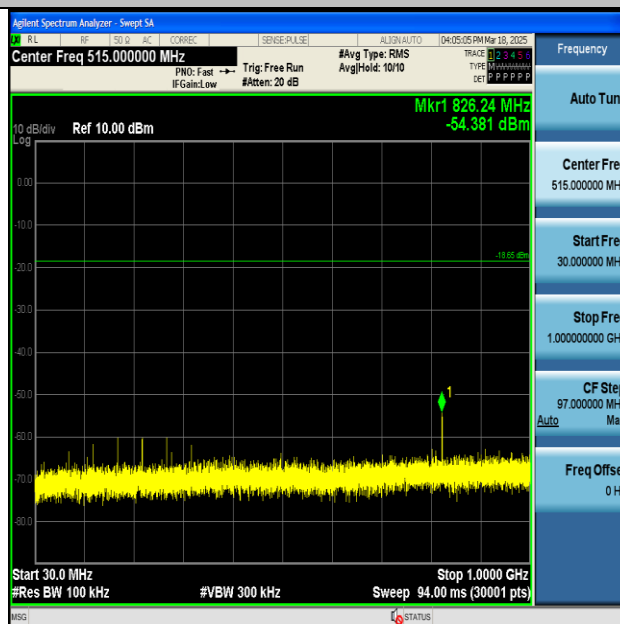
3DH5-Ant1-2441-30~1000-PASS



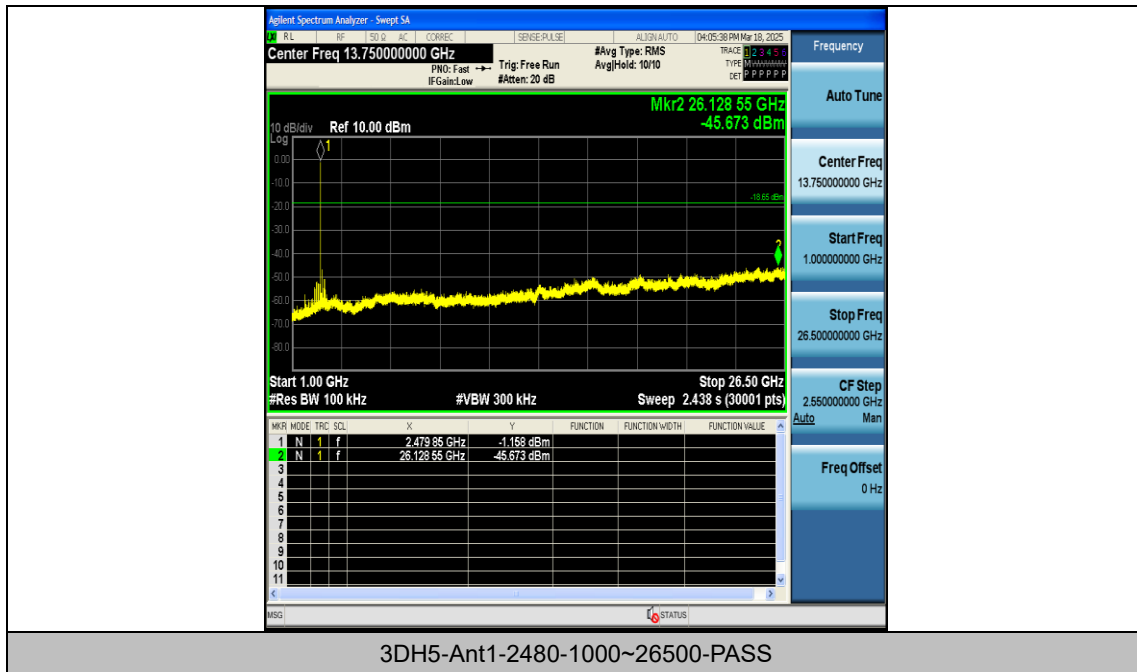
3DH5-Ant1-2441-1000~26500-PASS



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



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



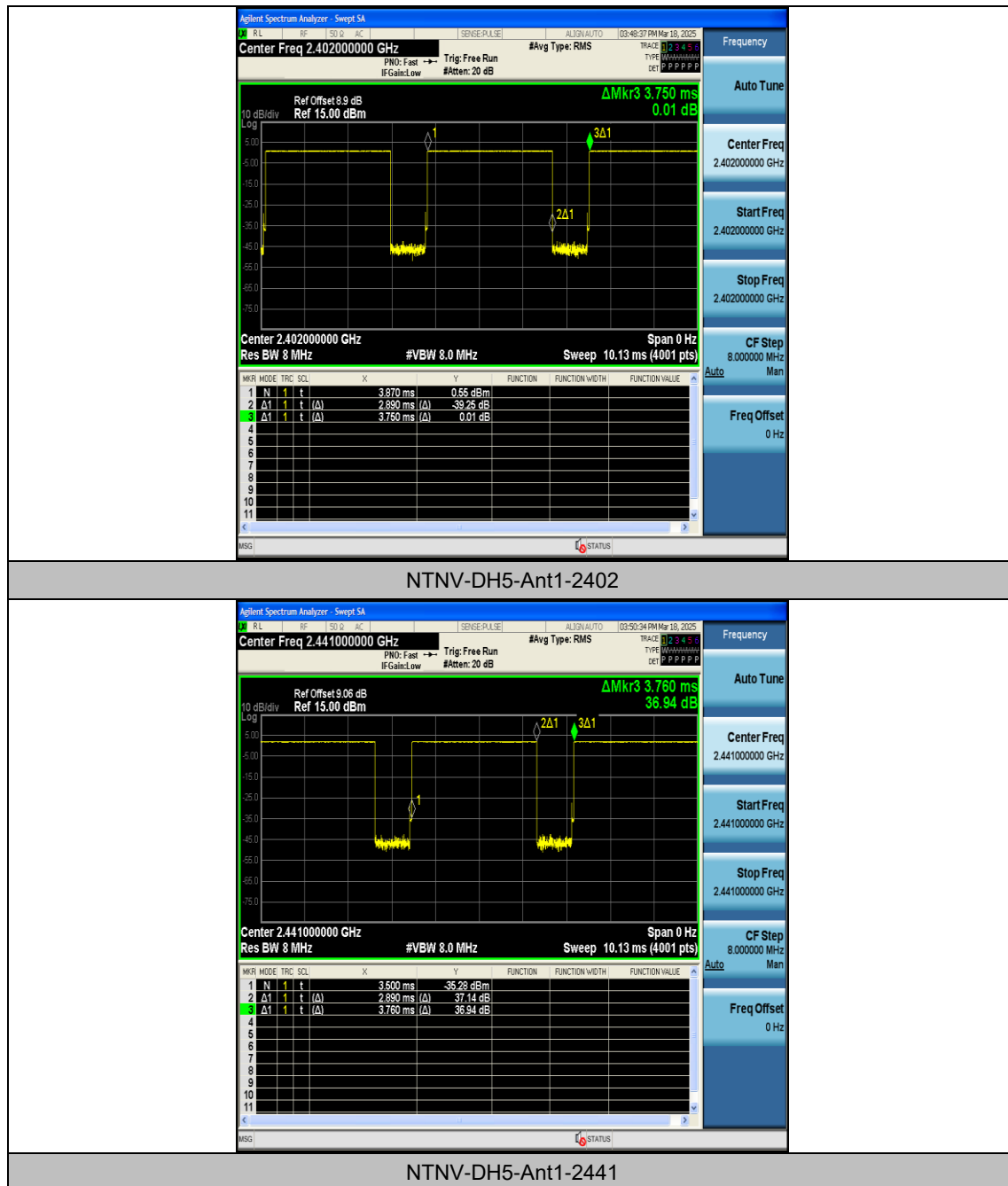
Appendix I: Duty Cycle

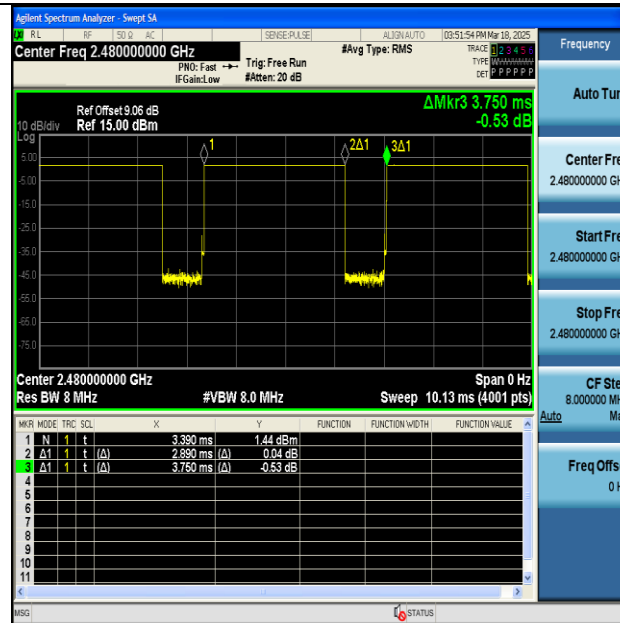
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.76	76.86	1.14
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.74	3.61	75.90	1.20
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.75	3.62	75.97	1.19
3DH5	Ant1	2402	2.75	3.62	75.97	1.19
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.75	3.61	76.18	1.18

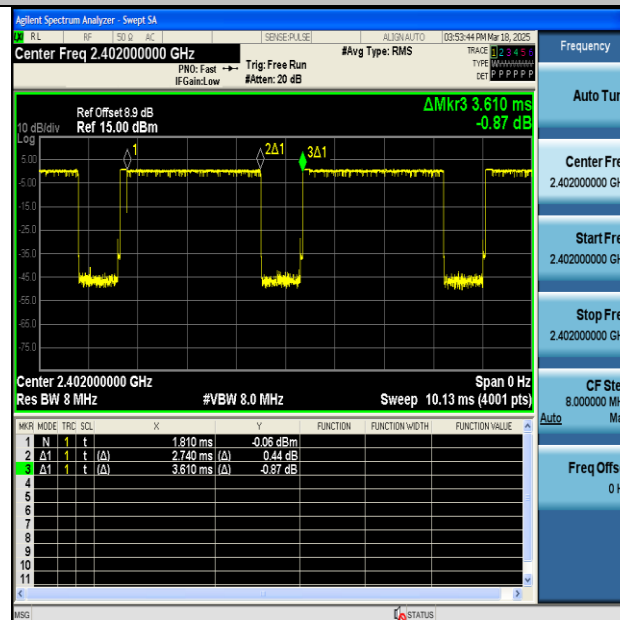
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

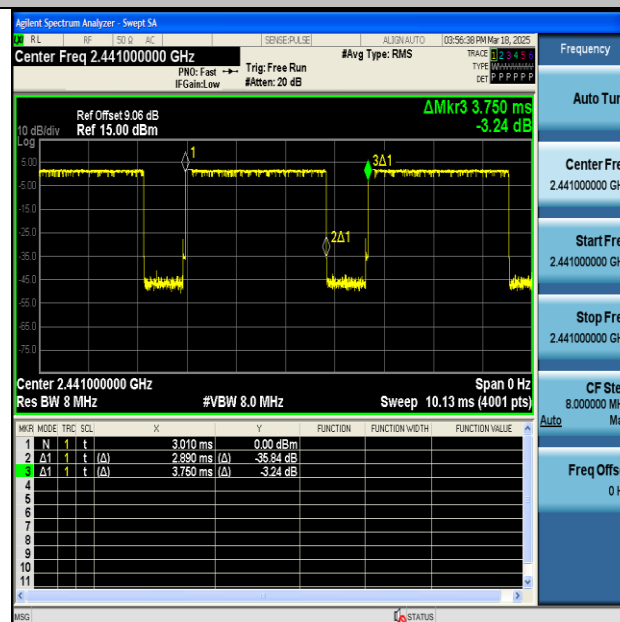




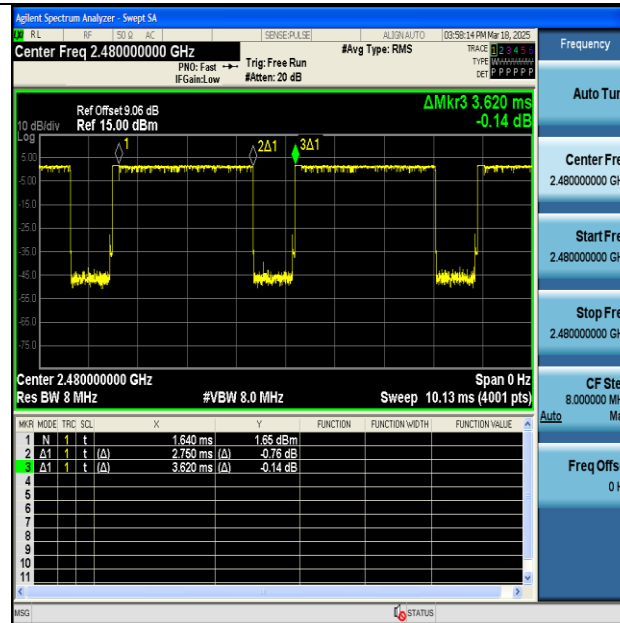
NTNV-DH5-Ant1-2480



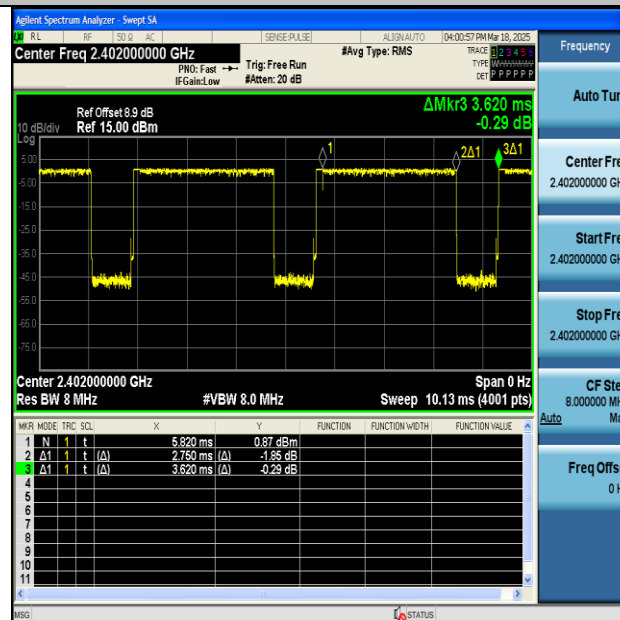
NTNV-2DH5-Ant1-2402



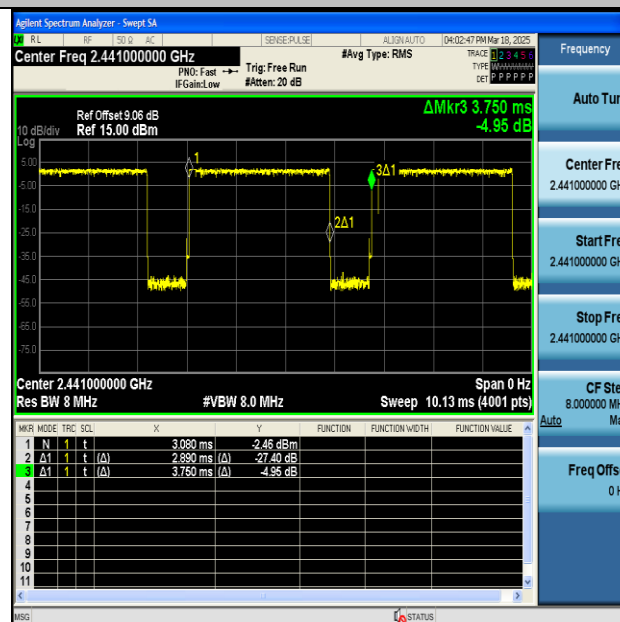
NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441

