

Appendix: Bluetooth Classic

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Test Result 57

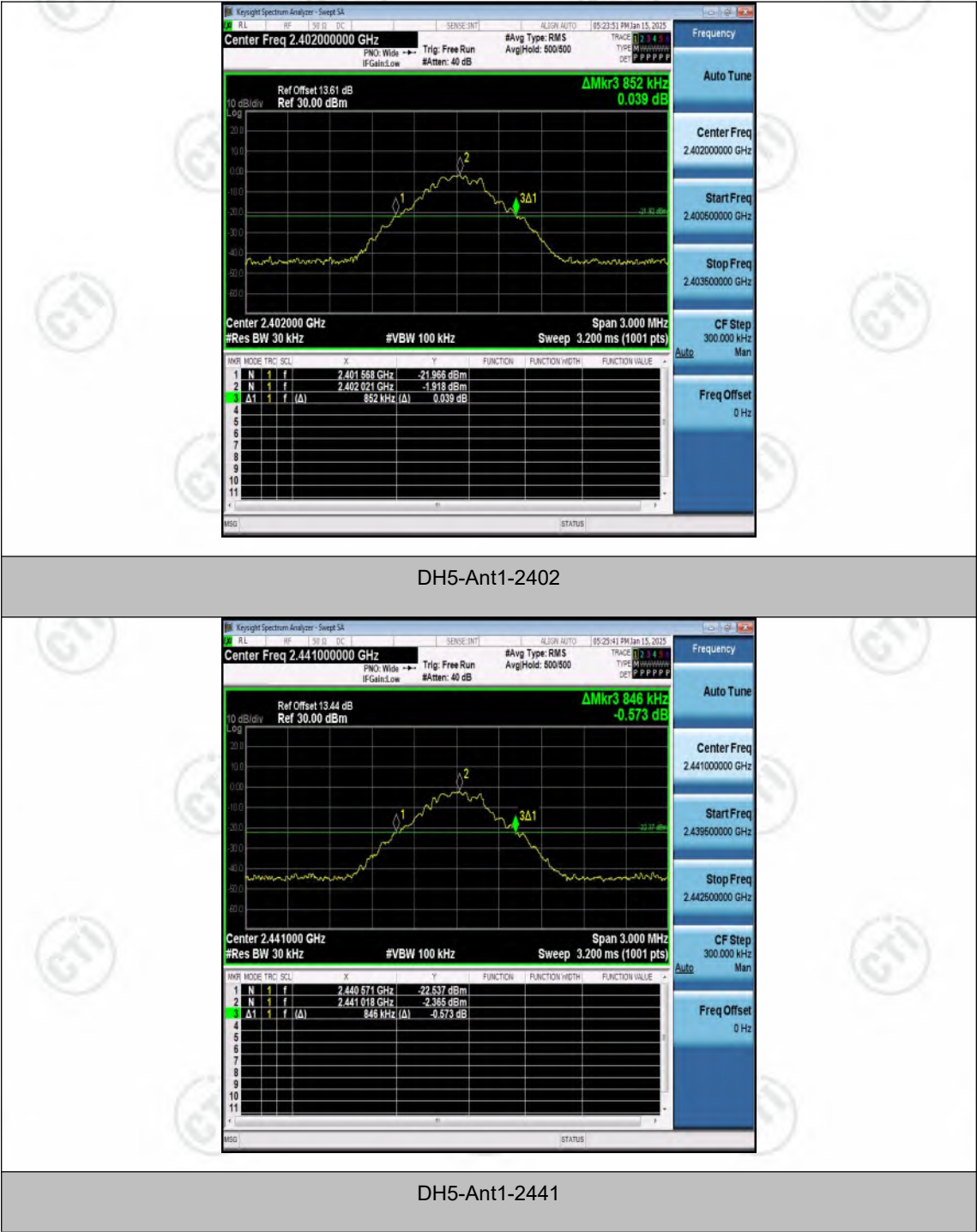
Test Graphs 58

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.852	2401.568	2402.420	---	---
DH5	Ant1	2441	0.846	2440.571	2441.417	---	---
DH5	Ant1	2480	0.867	2479.553	2480.420	---	---
2DH5	Ant1	2402	1.275	2401.370	2402.645	---	---
2DH5	Ant1	2441	1.266	2440.373	2441.639	---	---
2DH5	Ant1	2480	1.266	2479.373	2480.639	---	---
3DH5	Ant1	2402	1.284	2401.358	2402.642	---	---
3DH5	Ant1	2441	1.278	2440.358	2441.636	---	---
3DH5	Ant1	2480	1.278	2479.361	2480.639	---	---

Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.76198	2401.6273	2402.3893	---	---
DH5	Ant1	2441	0.75979	2440.6270	2441.3868	---	---
DH5	Ant1	2480	0.77285	2479.6137	2480.3865	---	---
2DH5	Ant1	2402	1.1495	2401.4267	2402.5762	---	---
2DH5	Ant1	2441	1.1501	2440.4251	2441.5752	---	---
2DH5	Ant1	2480	1.1514	2479.4255	2480.5769	---	---
3DH5	Ant1	2402	1.1552	2401.4279	2402.5831	---	---
3DH5	Ant1	2441	1.1558	2440.4275	2441.5833	---	---
3DH5	Ant1	2480	1.1595	2479.4252	2480.5847	---	---

Test Graphs









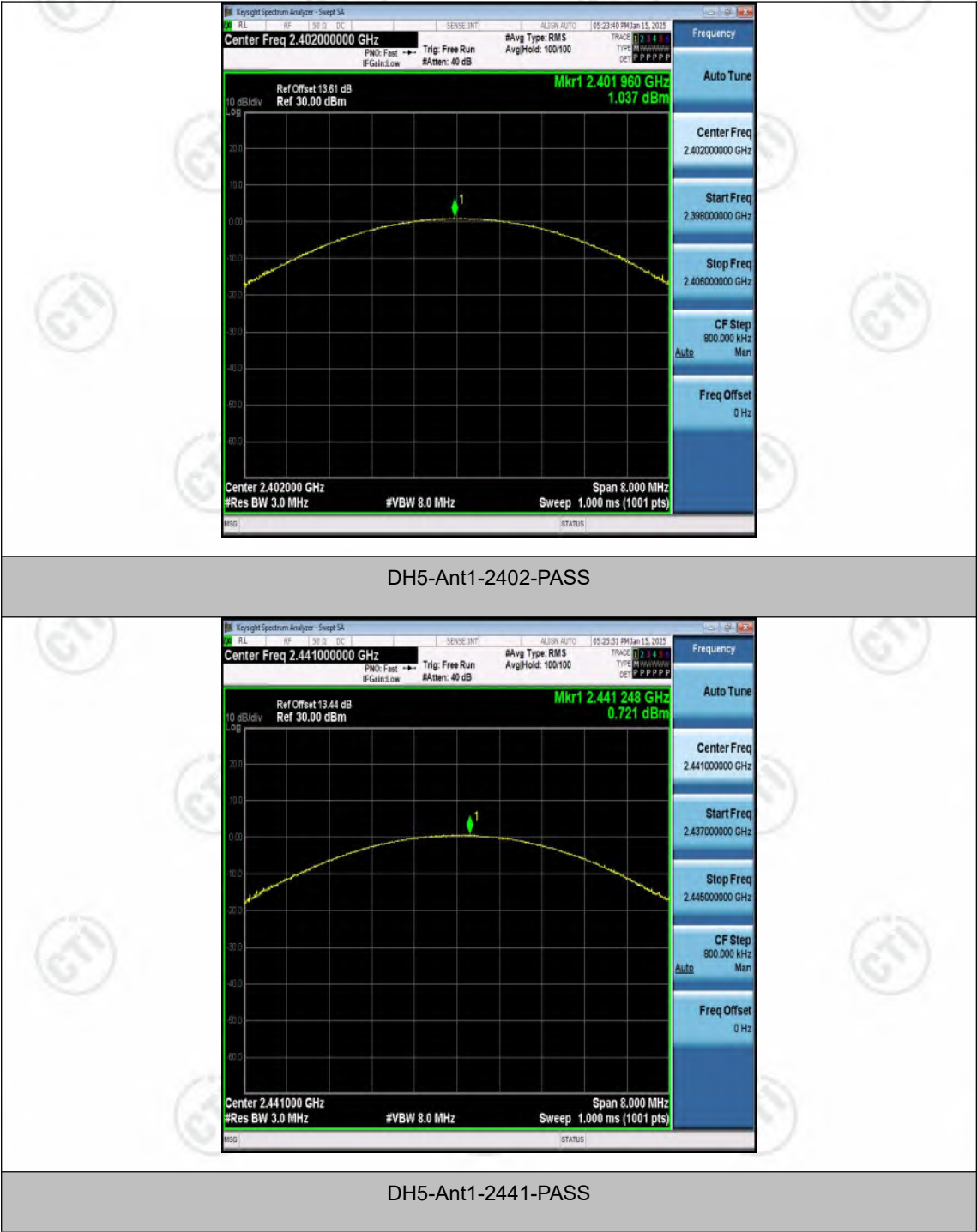


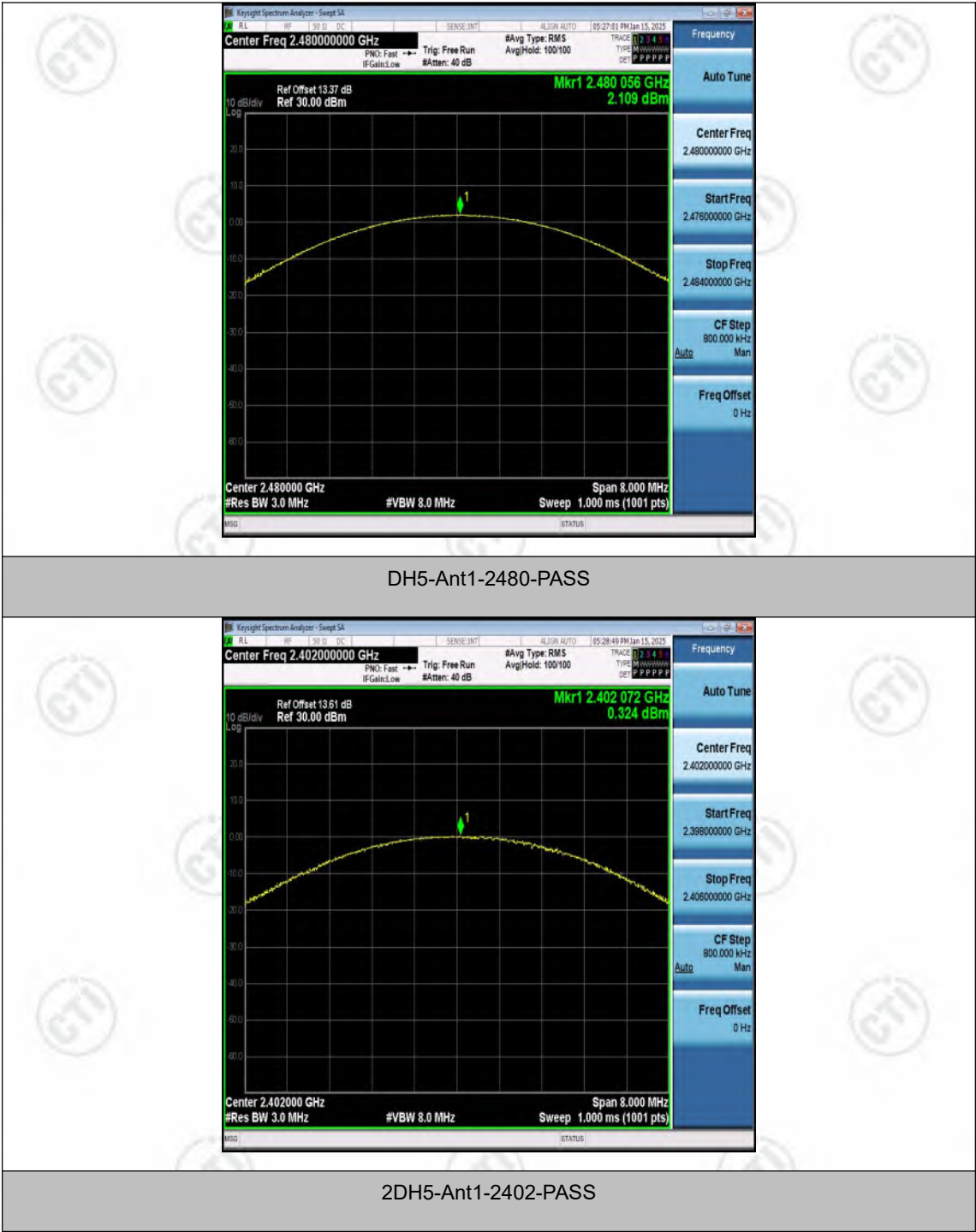
Appendix C: Maximum conducted output power

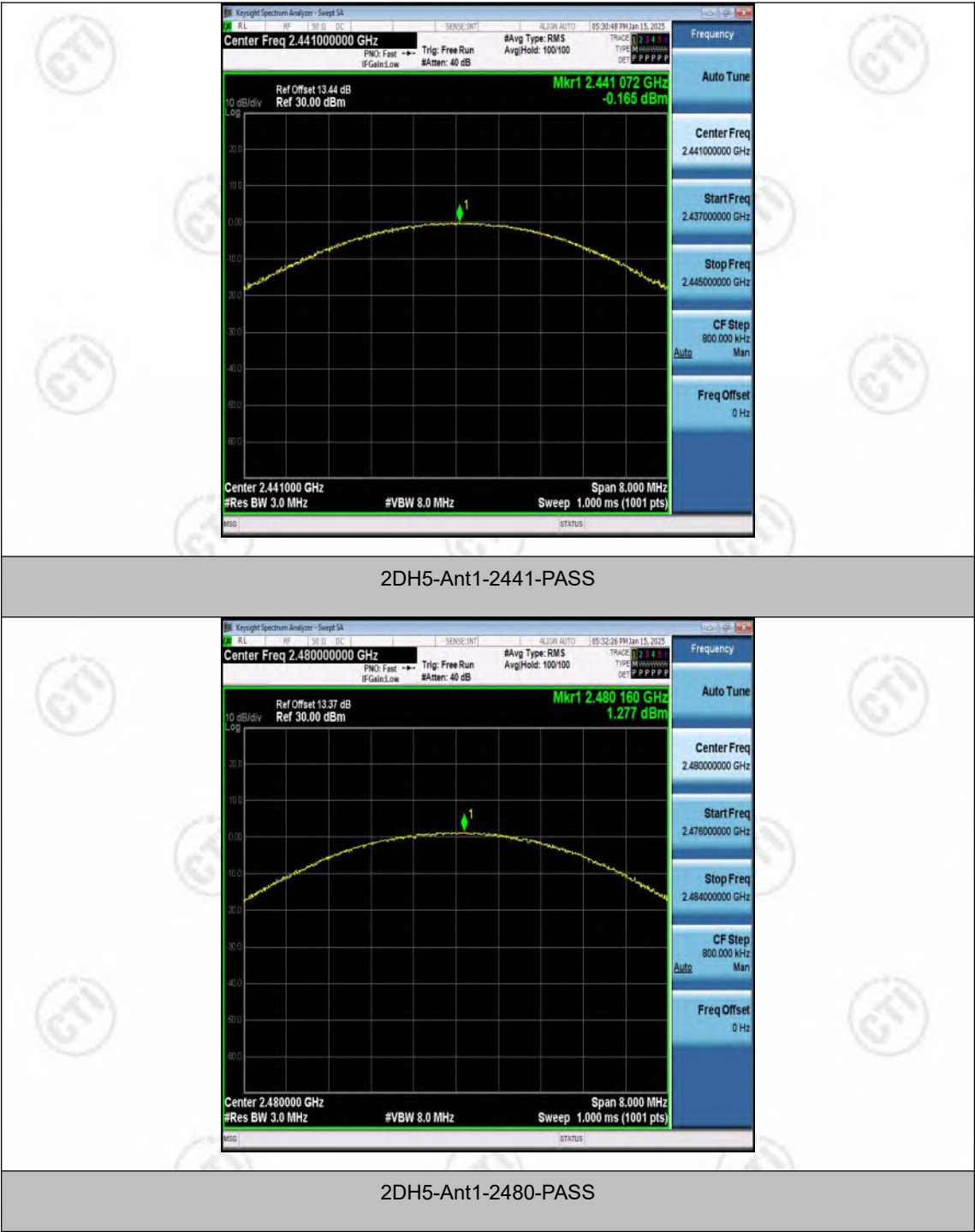
Test Result

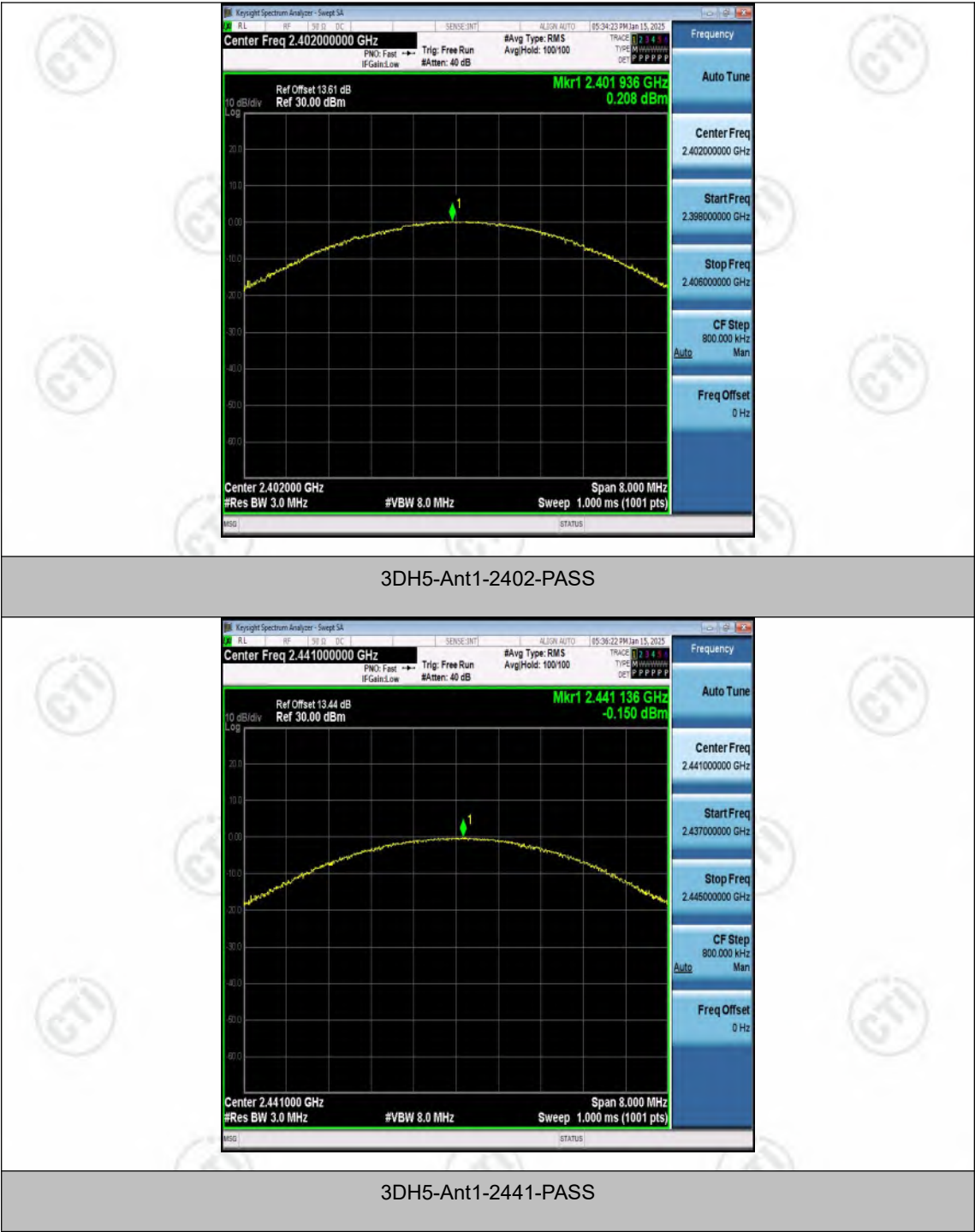
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.04	≤30	PASS
DH5	Ant1	2441	0.72	≤20.97	PASS
DH5	Ant1	2480	2.11	≤20.97	PASS
2DH5	Ant1	2402	0.32	≤30	PASS
2DH5	Ant1	2441	-0.17	≤20.97	PASS
2DH5	Ant1	2480	1.28	≤20.97	PASS
3DH5	Ant1	2402	0.21	≤30	PASS
3DH5	Ant1	2441	-0.15	≤20.97	PASS
3DH5	Ant1	2480	1.28	≤20.97	PASS

Test Graphs











Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.98	≥0.867	PASS
2DH5	Ant1	Hop	1.166	≥0.850	PASS
3DH5	Ant1	Hop	1.166	≥0.856	PASS

Test Graphs



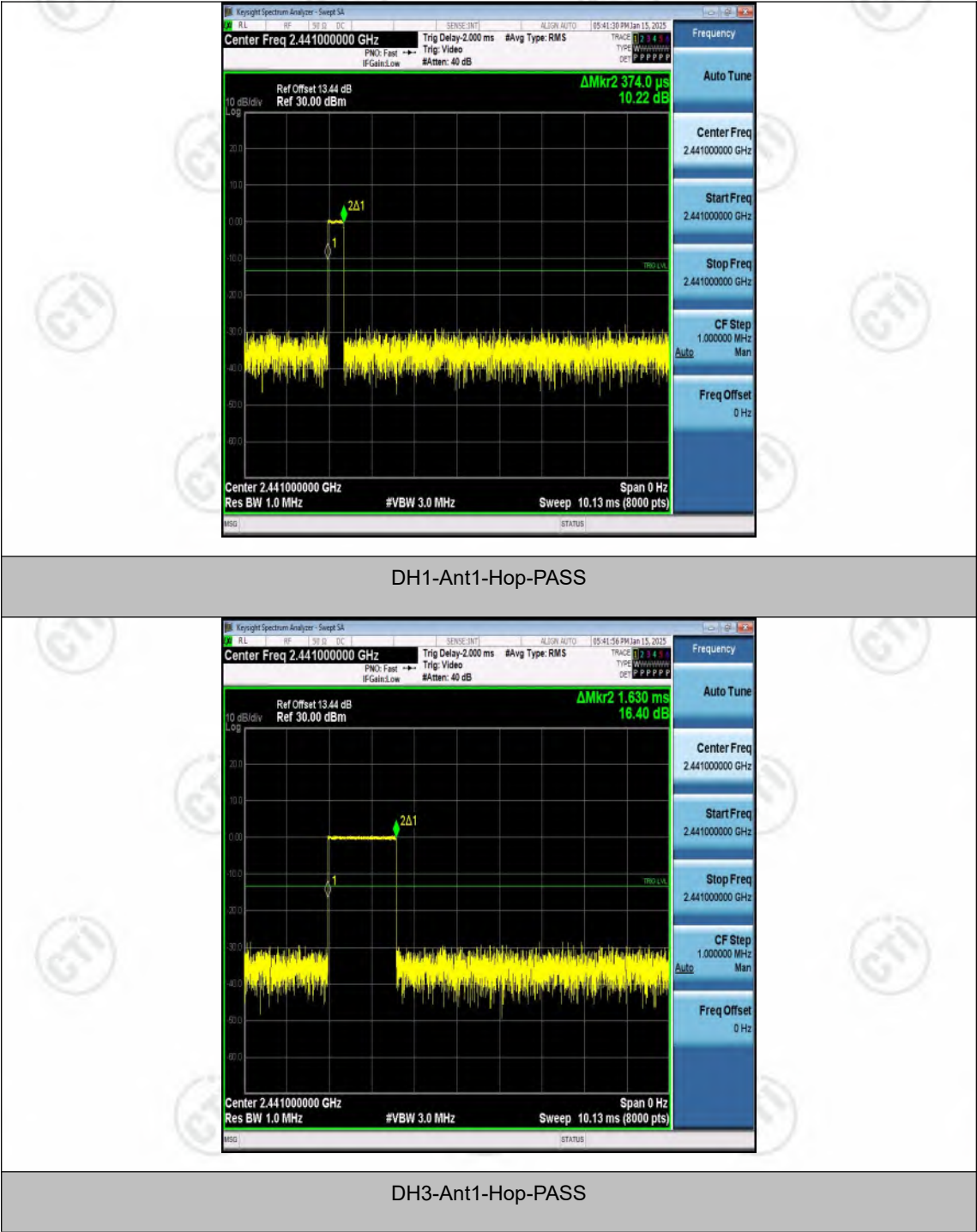


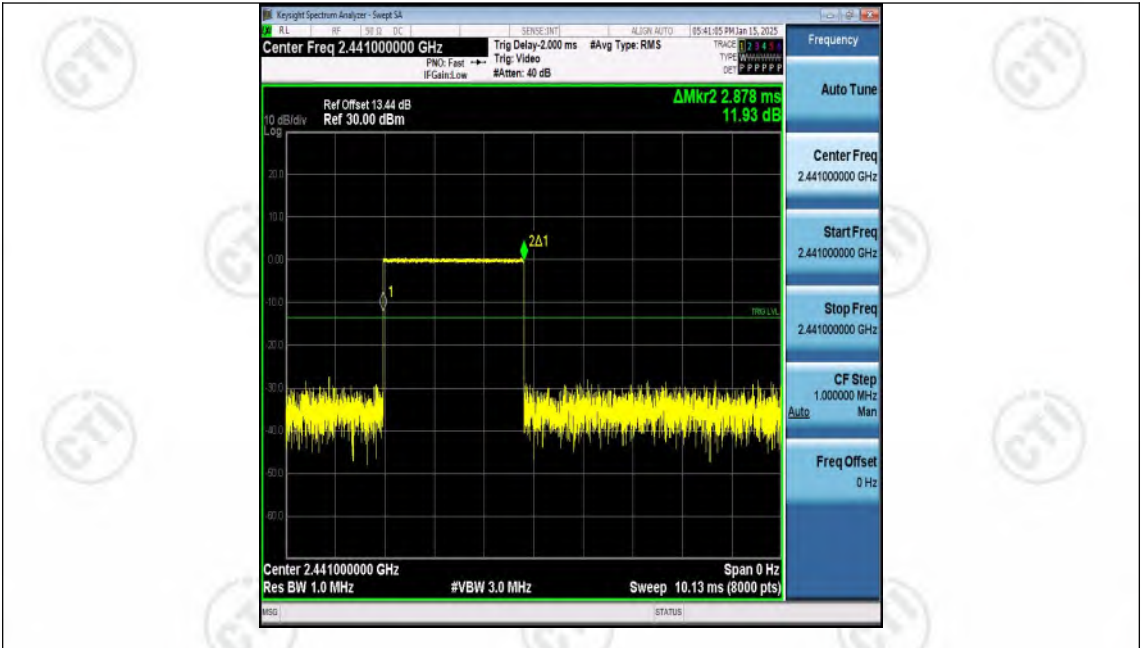
Appendix E: Time of occupancy

Test Result

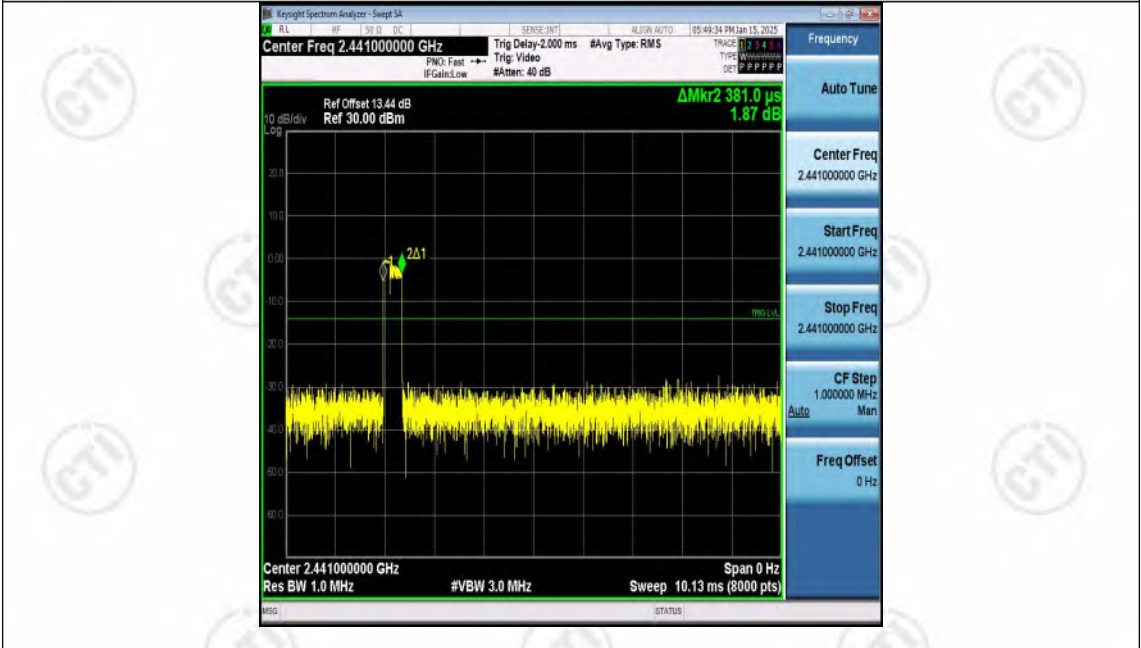
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.374	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.630	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.878	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.634	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.882	106.67	0.307	≤0.4	PASS
3DH1	Ant1	Hop	0.383	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.633	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS

Test Graphs

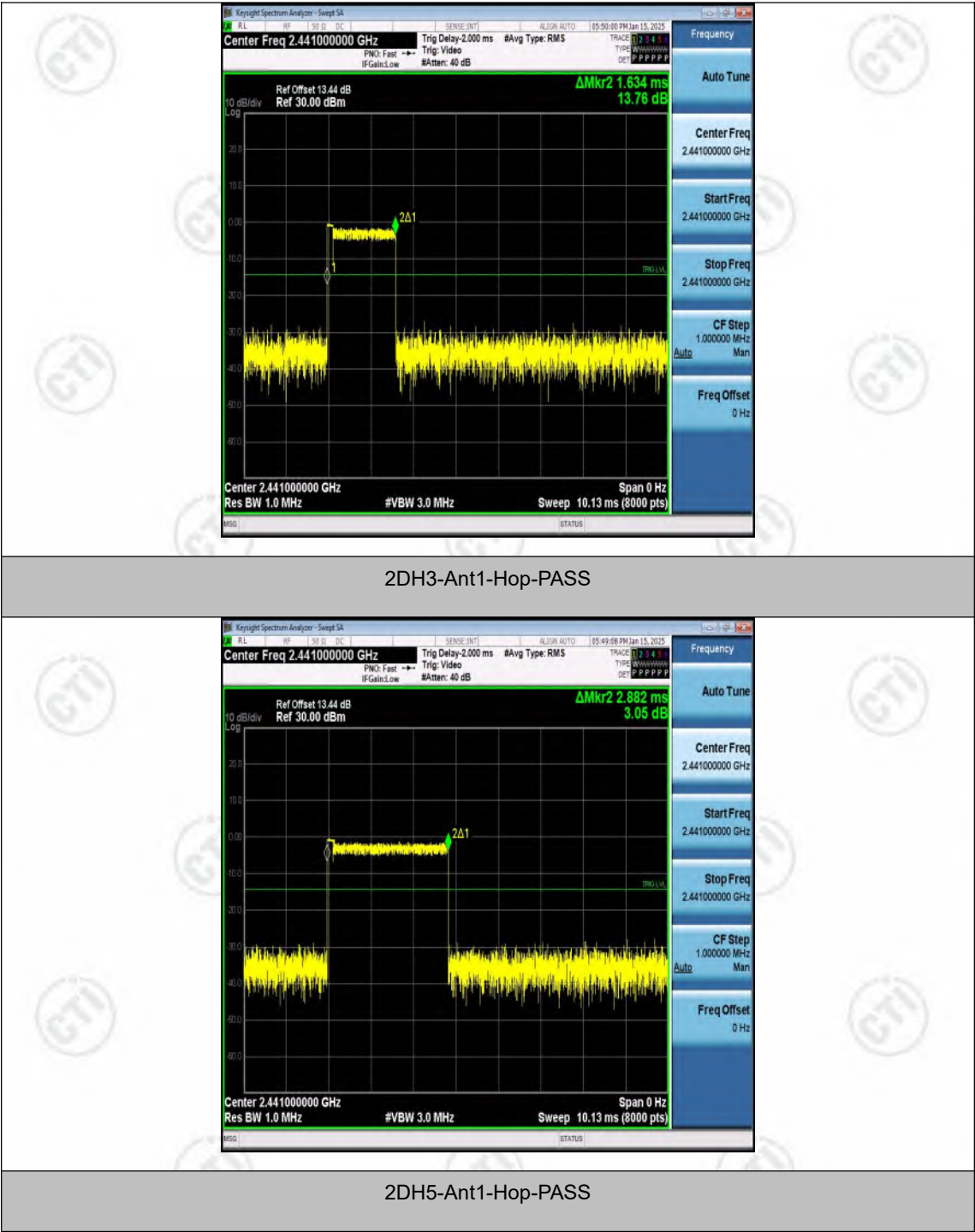


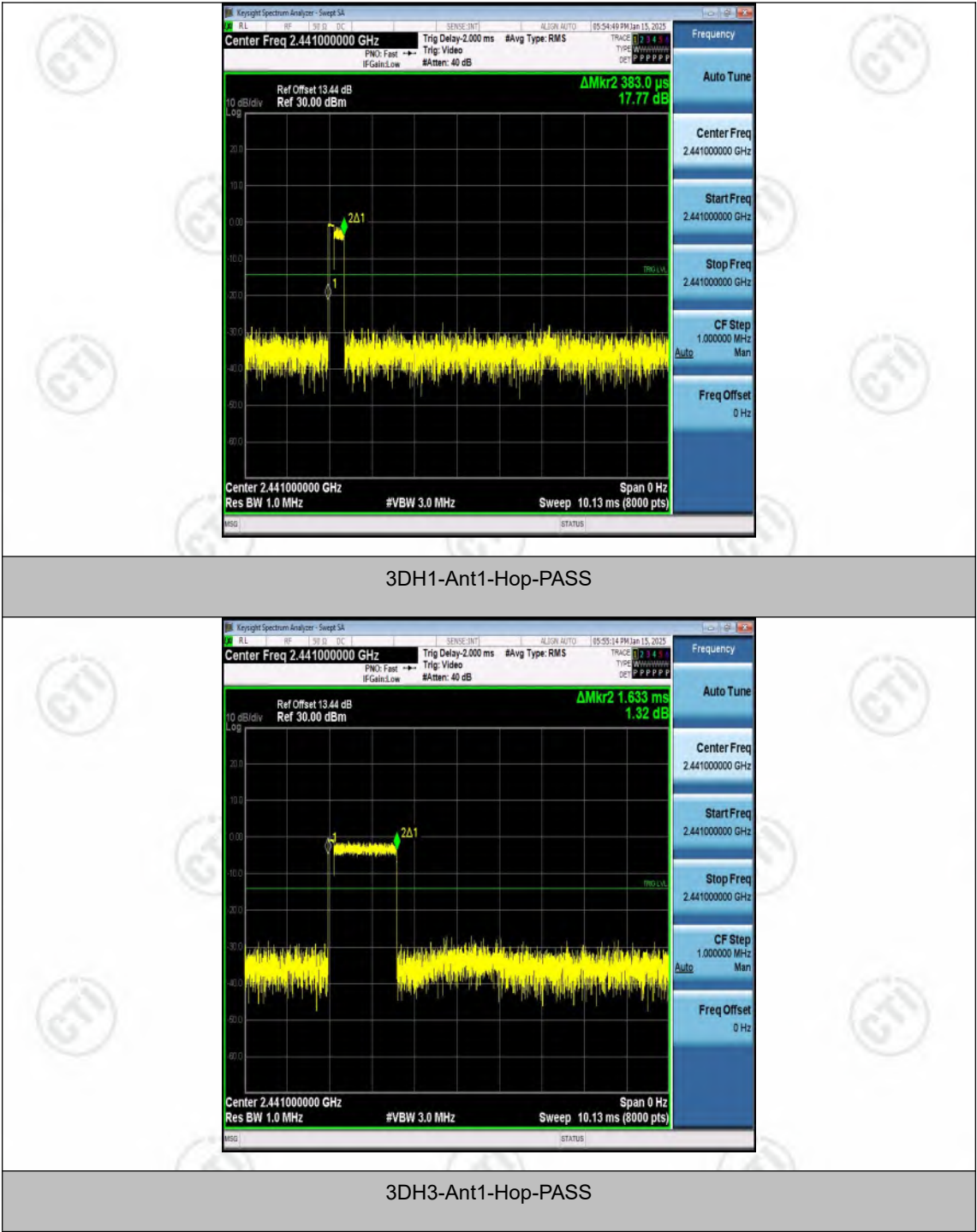


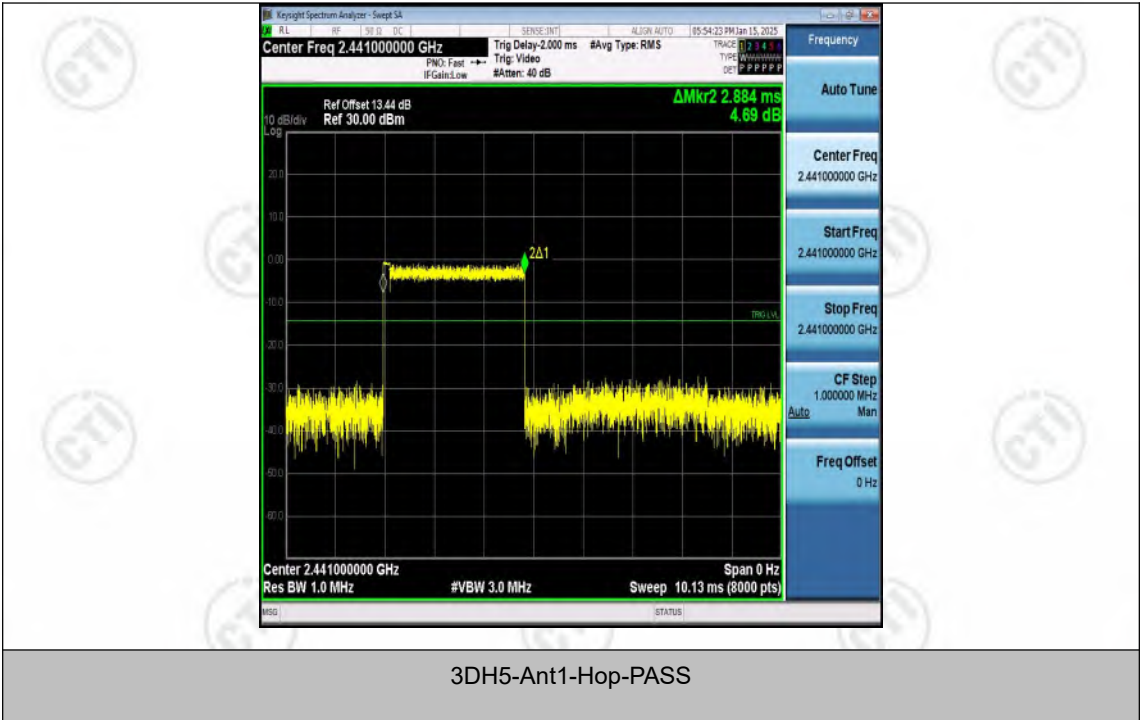
DH5-Ant1-Hop-PASS



2DH1-Ant1-Hop-PASS





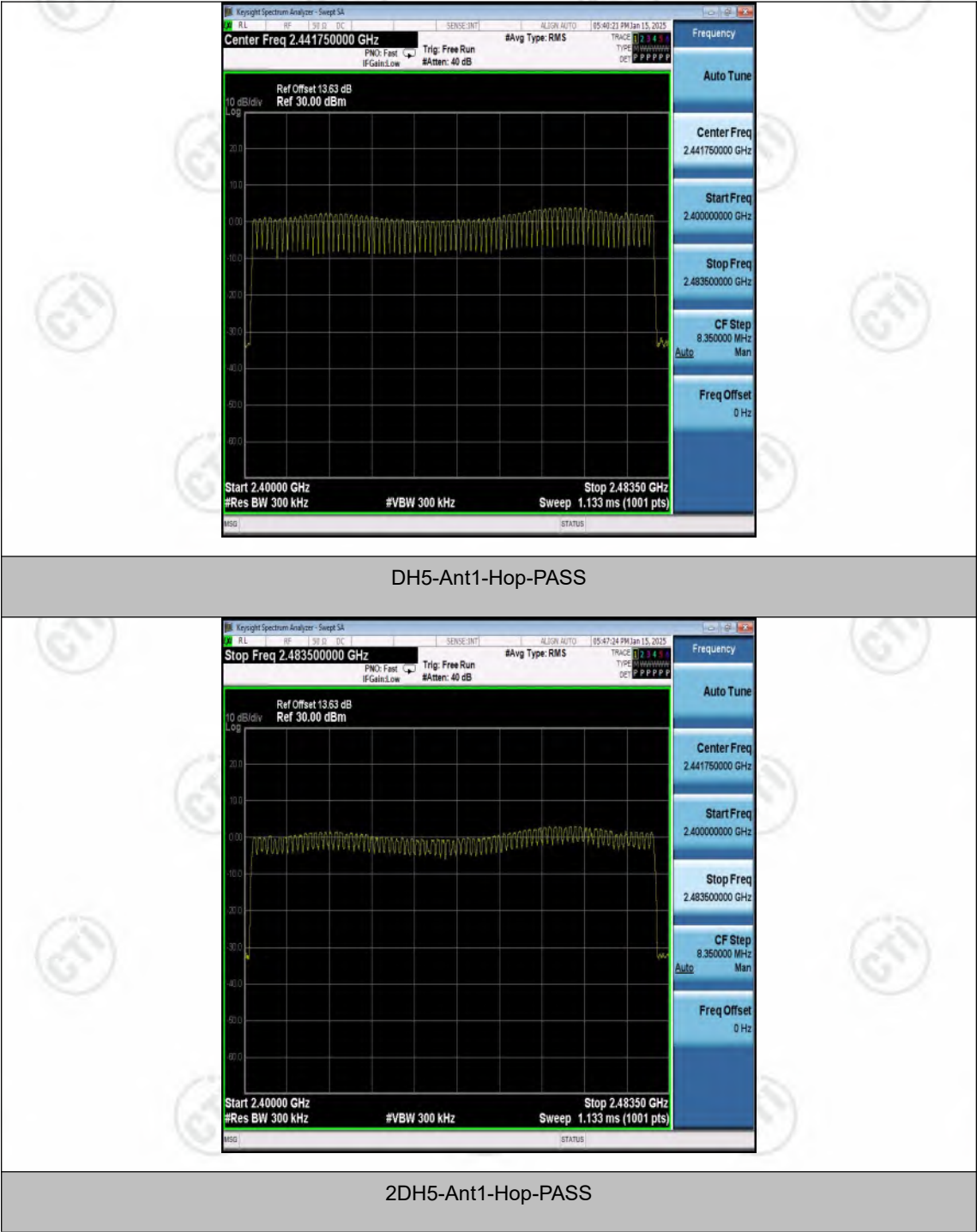


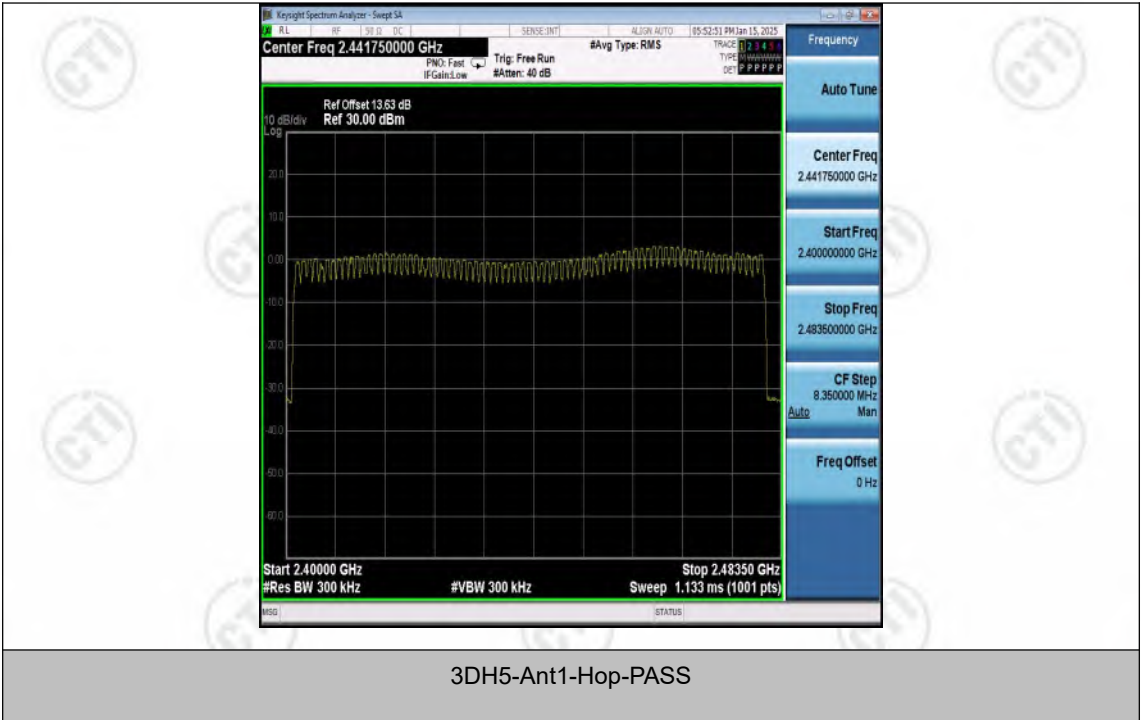
Appendix F: Number of hopping channels

Test Result

TestMode	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





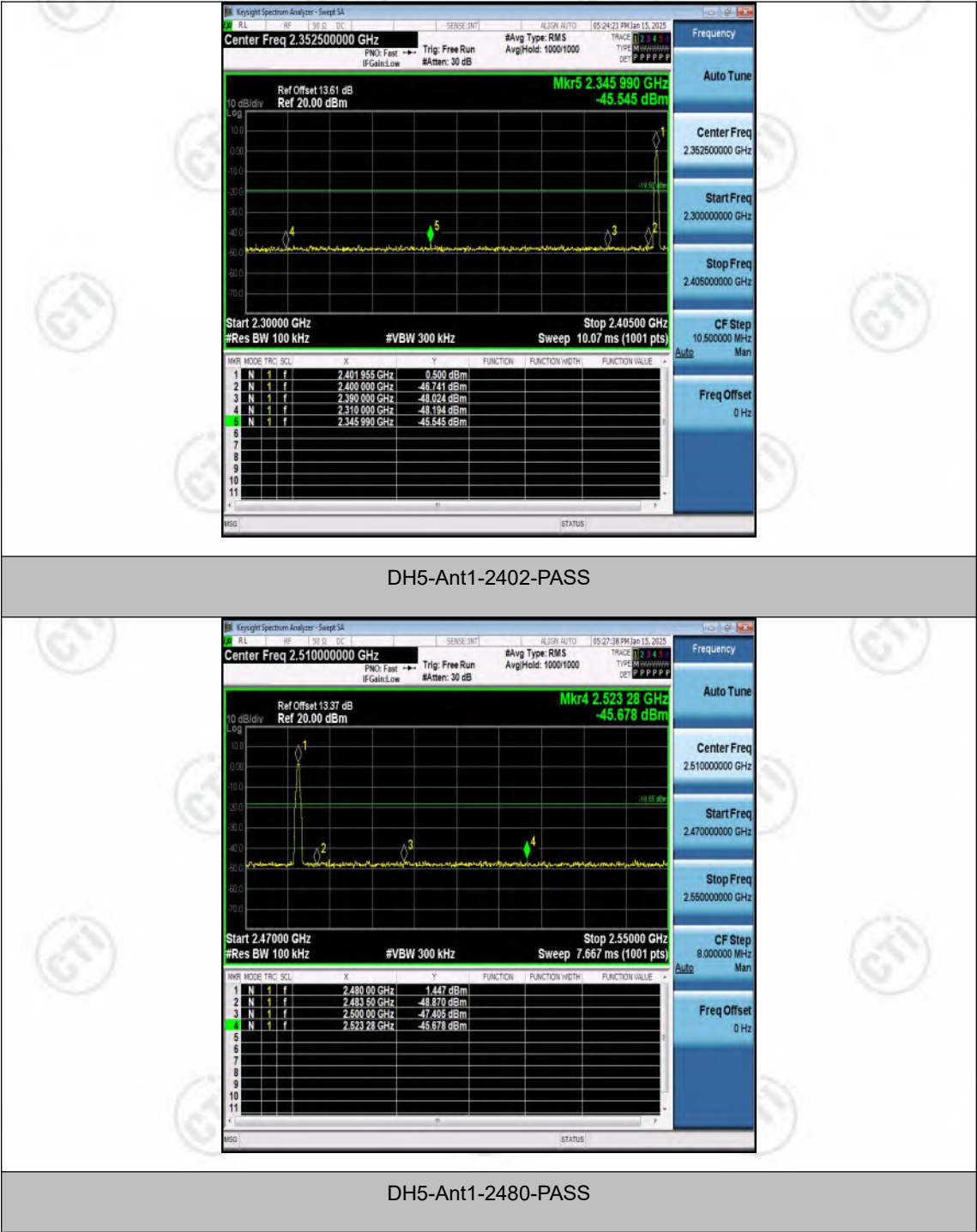
3DH5-Ant1-Hop-PASS

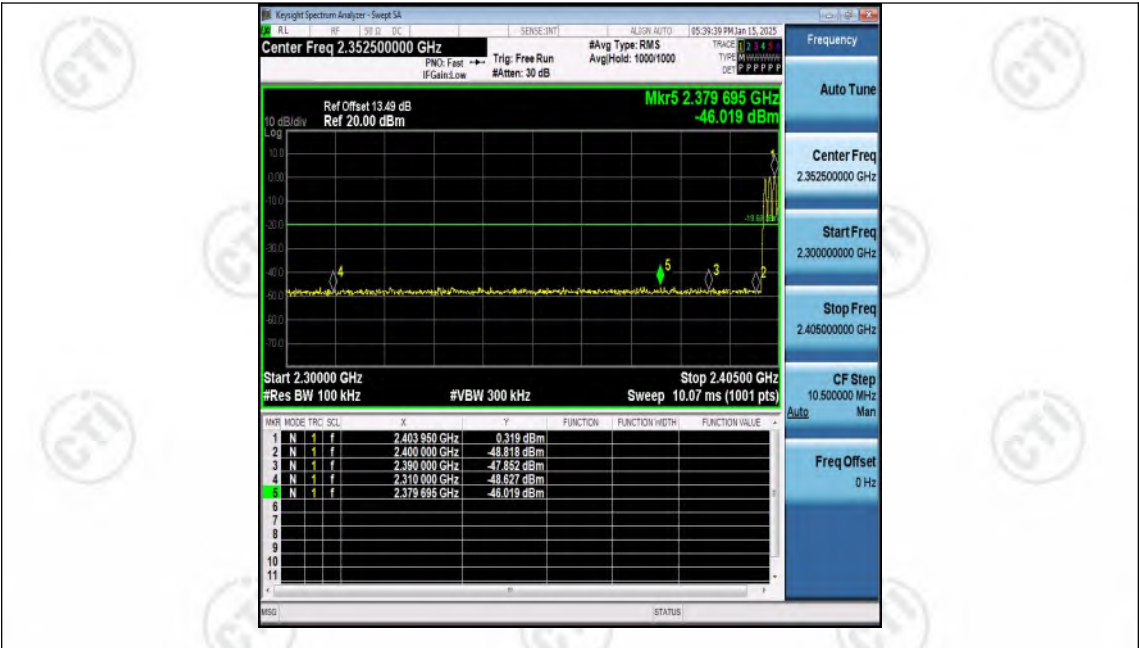
Appendix G: Band edge measurements

Test Result

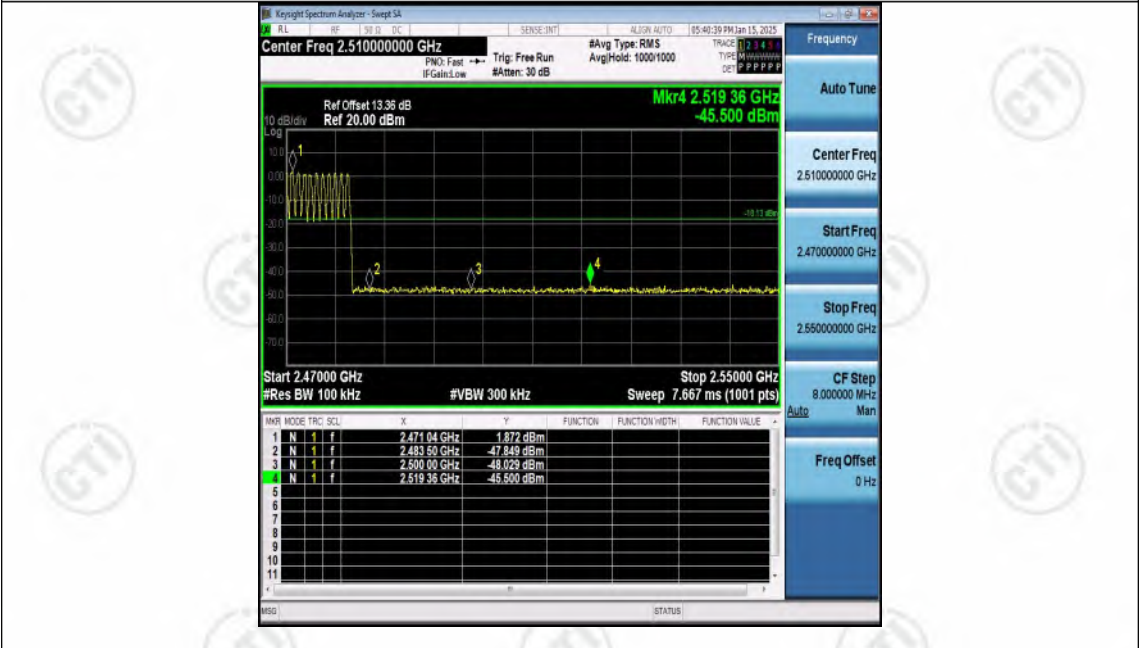
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.50	-45.55	≤-19.5	PASS
DH5	Ant1	High	2480	1.45	-45.68	≤-18.55	PASS
DH5	Ant1	Low	Hop_2402	0.32	-46.02	≤-19.68	PASS
DH5	Ant1	High	Hop_2480	1.87	-45.5	≤-18.13	PASS
2DH5	Ant1	Low	2402	-0.52	-44.94	≤-20.52	PASS
2DH5	Ant1	High	2480	0.50	-45.32	≤-19.5	PASS
2DH5	Ant1	Low	Hop_2402	-0.37	-45.39	≤-20.37	PASS
2DH5	Ant1	High	Hop_2480	1.44	-45.01	≤-18.56	PASS
3DH5	Ant1	Low	2402	-0.50	-45.22	≤-20.5	PASS
3DH5	Ant1	High	2480	0.59	-45.51	≤-19.41	PASS
3DH5	Ant1	Low	Hop_2402	-2.07	-45.44	≤-22.07	PASS
3DH5	Ant1	High	Hop_2480	1.00	-45.2	≤-19	PASS

Test Graphs

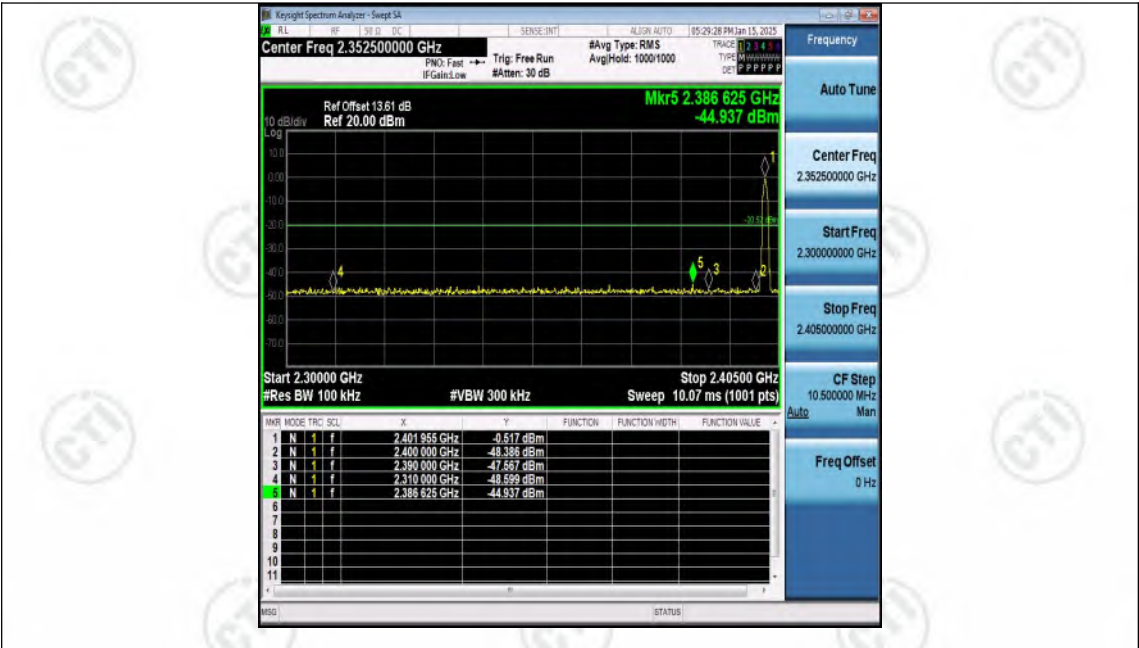




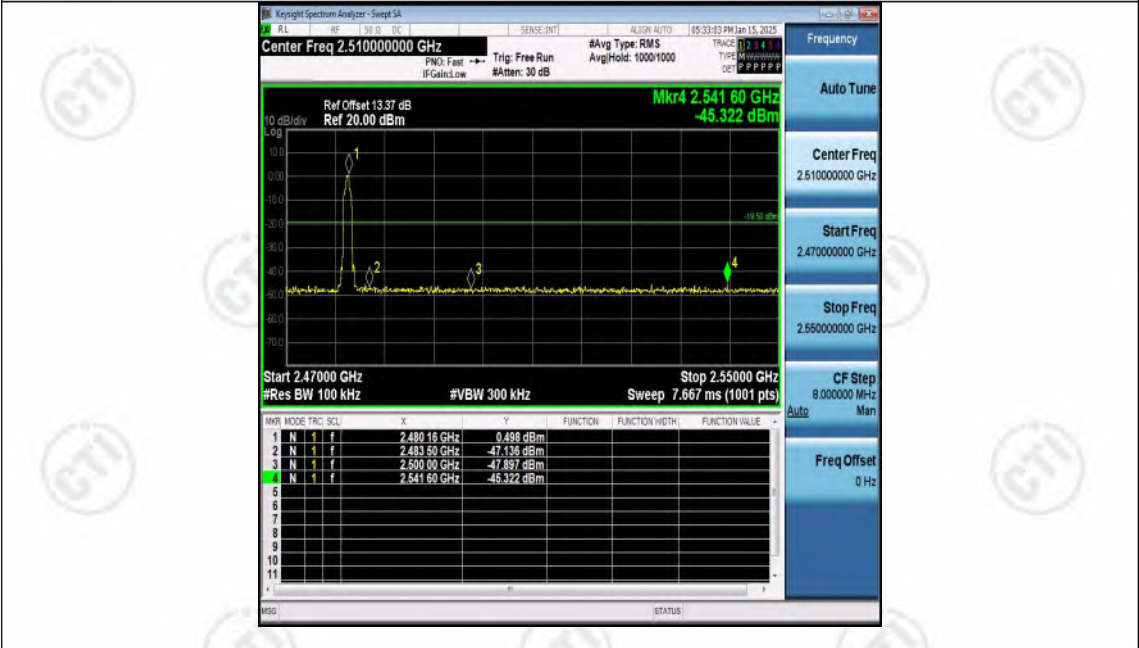
DH5-Ant1-Hop_2402-PASS



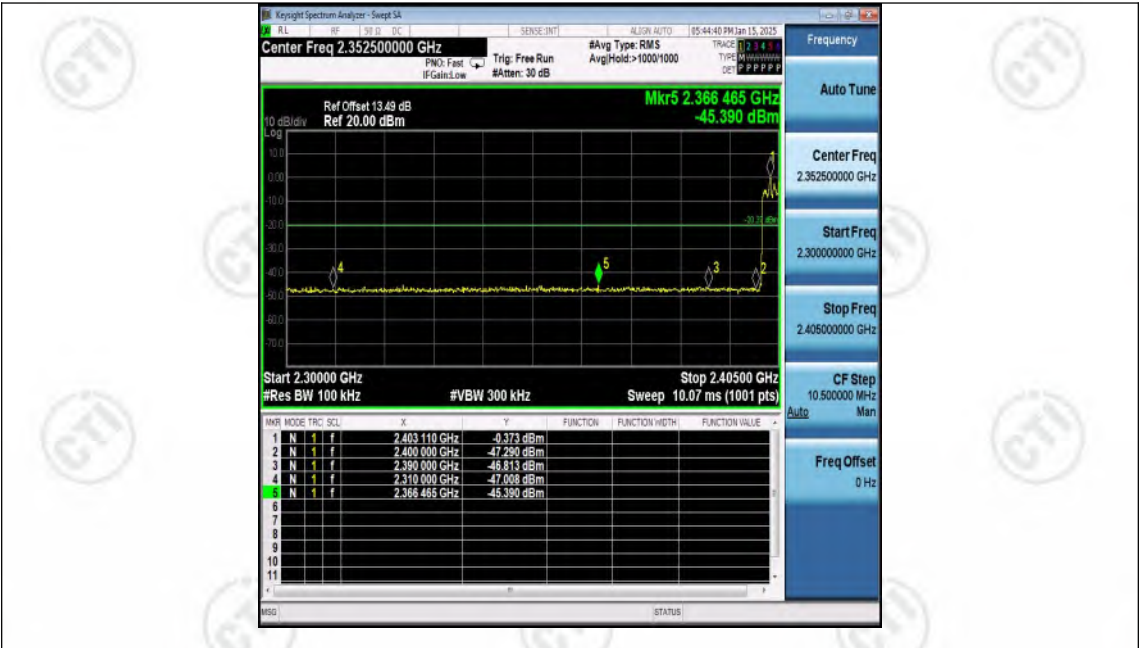
DH5-Ant1-Hop_2480-PASS



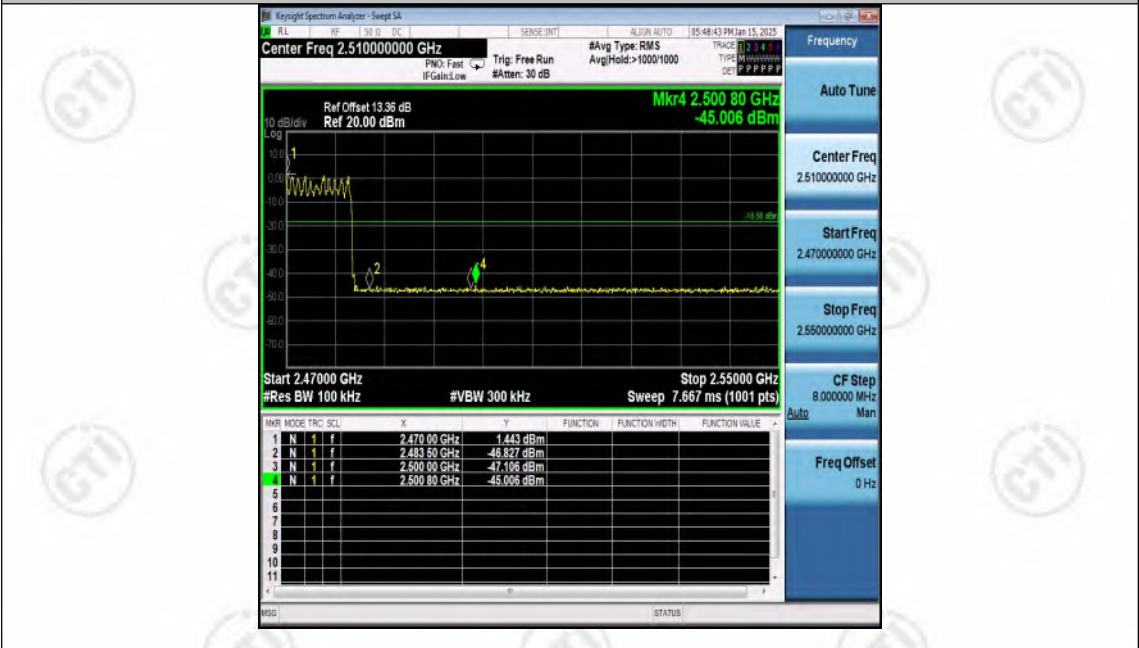
2DH5-Ant1-2402-PASS



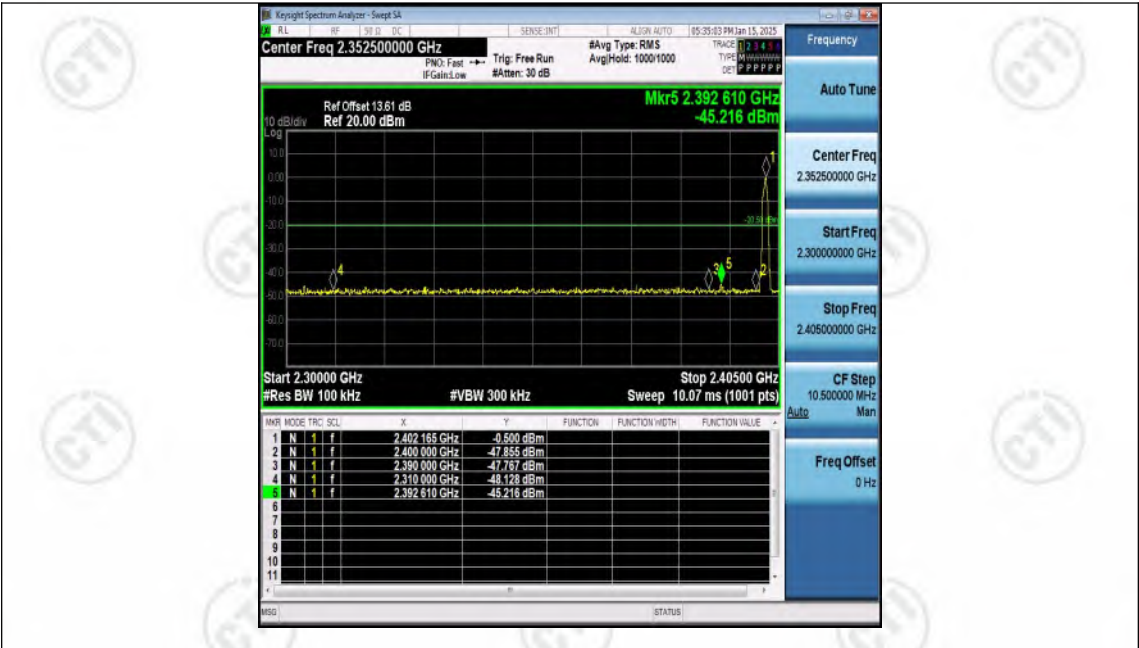
2DH5-Ant1-2480-PASS



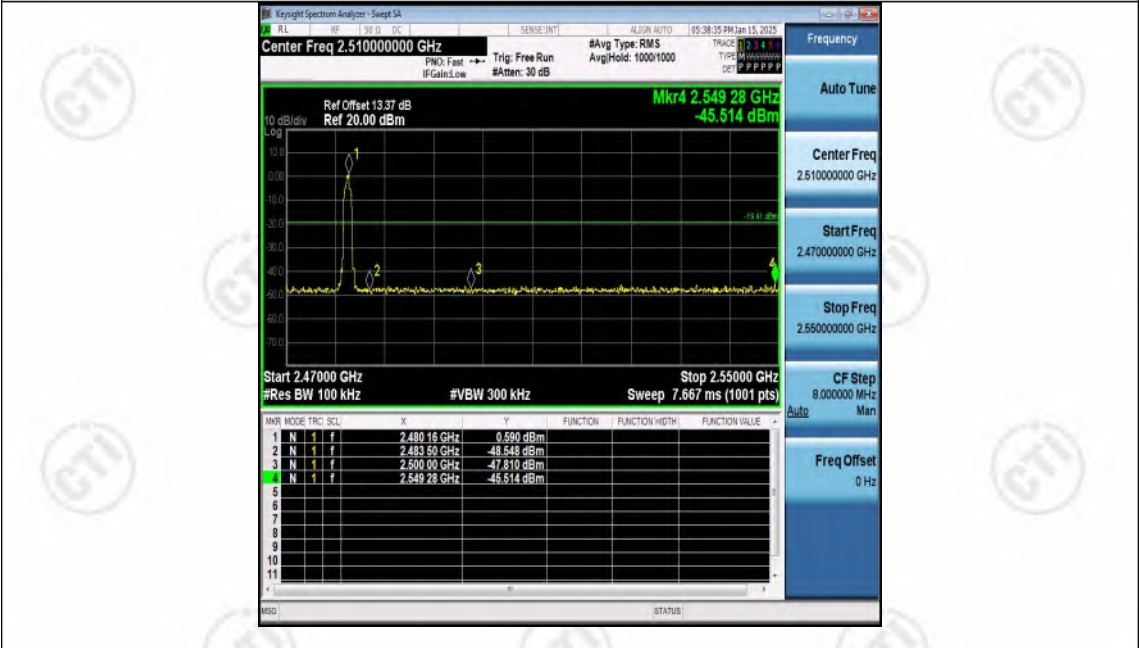
2DH5-Ant1-Hop_2402-PASS



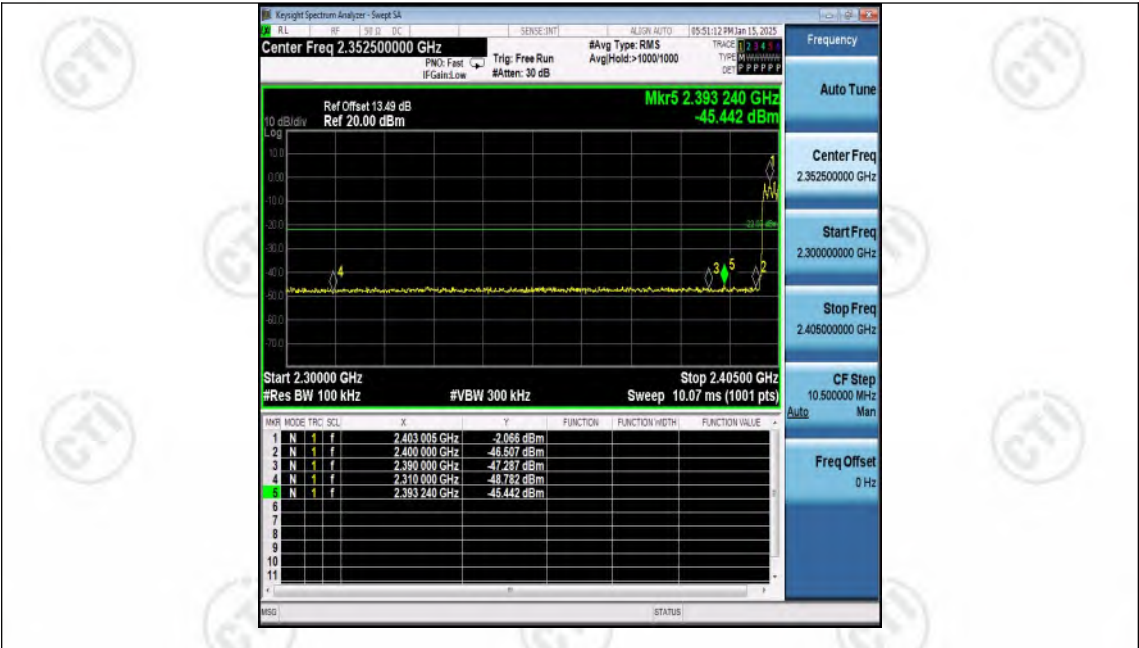
2DH5-Ant1-Hop_2480-PASS



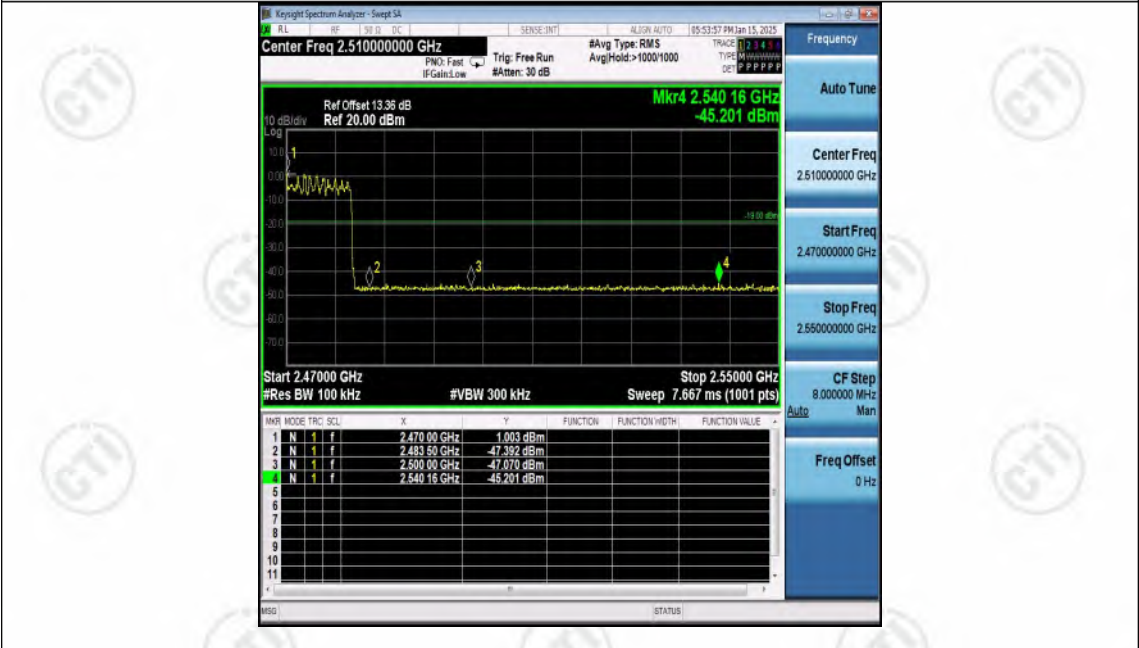
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

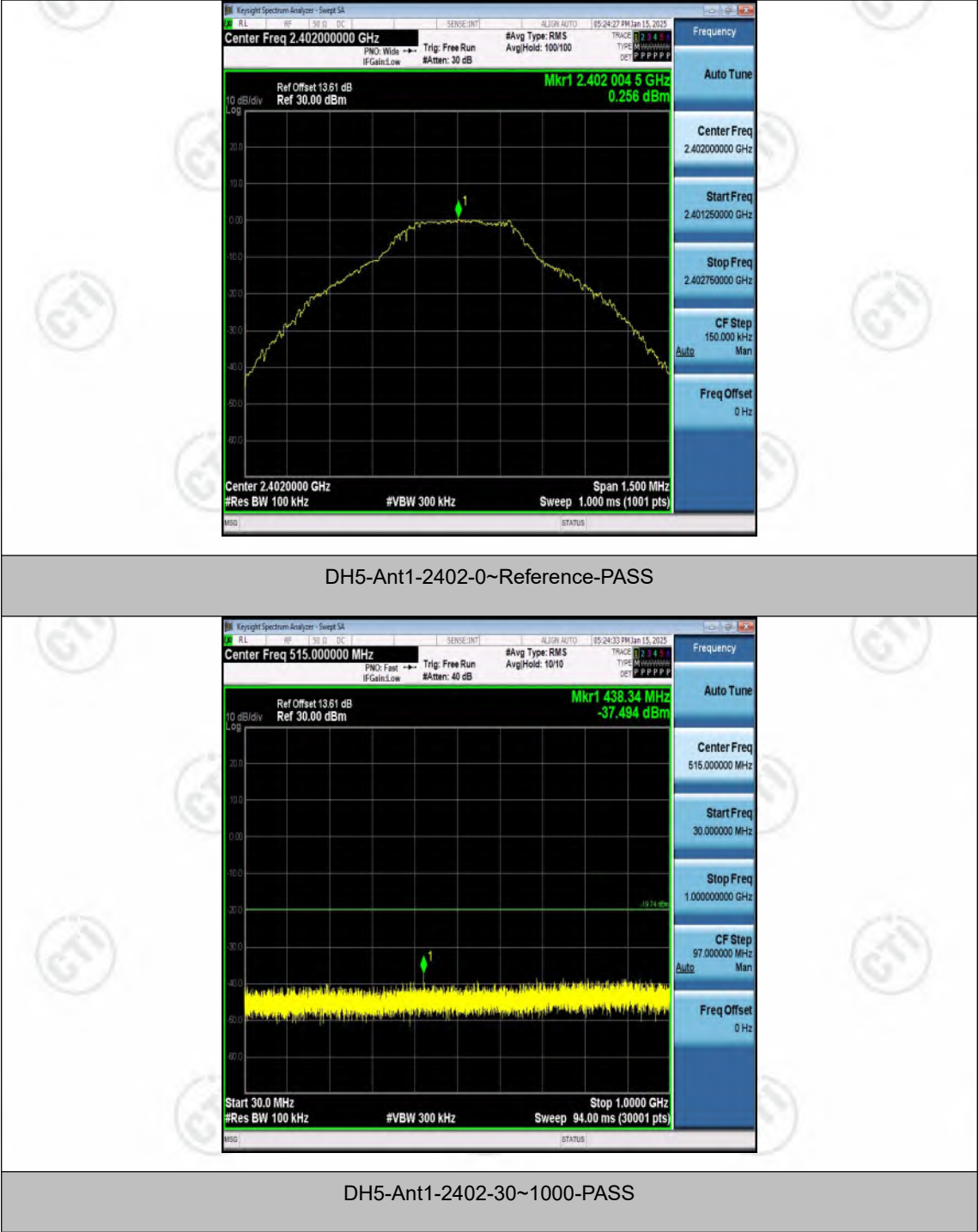
Appendix H: Conducted Spurious Emission

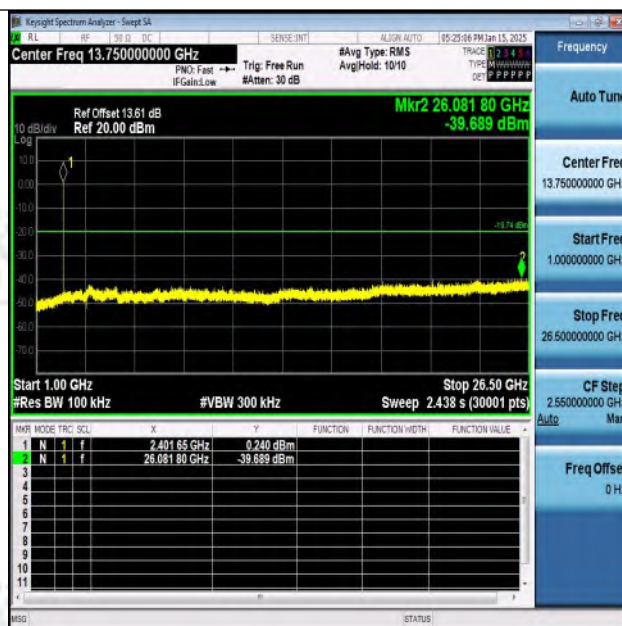
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	0.26	0.26	---	PASS
DH5	Ant1	2402	30~1000	0.26	-37.49	≤-19.74	PASS
DH5	Ant1	2402	1000~26500	0.26	-39.69	≤-19.74	PASS
DH5	Ant1	2441	0~Reference	-0.27	-0.27	---	PASS
DH5	Ant1	2441	30~1000	-0.27	-38.27	≤-20.27	PASS
DH5	Ant1	2441	1000~26500	-0.27	-39.63	≤-20.27	PASS
DH5	Ant1	2480	0~Reference	1.16	1.16	---	PASS
DH5	Ant1	2480	30~1000	1.16	-38.08	≤-18.84	PASS
DH5	Ant1	2480	1000~26500	1.16	-38.05	≤-18.84	PASS
2DH5	Ant1	2402	0~Reference	-0.98	-0.98	---	PASS
2DH5	Ant1	2402	30~1000	-0.98	-37.66	≤-20.98	PASS
2DH5	Ant1	2402	1000~26500	-0.98	-39.04	≤-20.98	PASS
2DH5	Ant1	2441	0~Reference	-0.93	-0.93	---	PASS
2DH5	Ant1	2441	30~1000	-0.93	-37.66	≤-20.93	PASS
2DH5	Ant1	2441	1000~26500	-0.93	-40.03	≤-20.93	PASS
2DH5	Ant1	2480	0~Reference	0.24	0.24	---	PASS
2DH5	Ant1	2480	30~1000	0.24	-37.68	≤-19.76	PASS
2DH5	Ant1	2480	1000~26500	0.24	-39.39	≤-19.76	PASS
3DH5	Ant1	2402	0~Reference	-0.85	-0.85	---	PASS
3DH5	Ant1	2402	30~1000	-0.85	-37.95	≤-20.85	PASS

3DH5	Ant1	2402	1000~26500	-0.85	-39.2	≤-20.85	PASS
3DH5	Ant1	2441	0~Reference	-1.41	-1.41	---	PASS
3DH5	Ant1	2441	30~1000	-1.41	-37.5	≤-21.41	PASS
3DH5	Ant1	2441	1000~26500	-1.41	-39.53	≤-21.41	PASS
3DH5	Ant1	2480	0~Reference	0.53	0.53	---	PASS
3DH5	Ant1	2480	30~1000	0.53	-37.5	≤-19.47	PASS
3DH5	Ant1	2480	1000~26500	0.53	-40.06	≤-19.47	PASS

Test Graphs

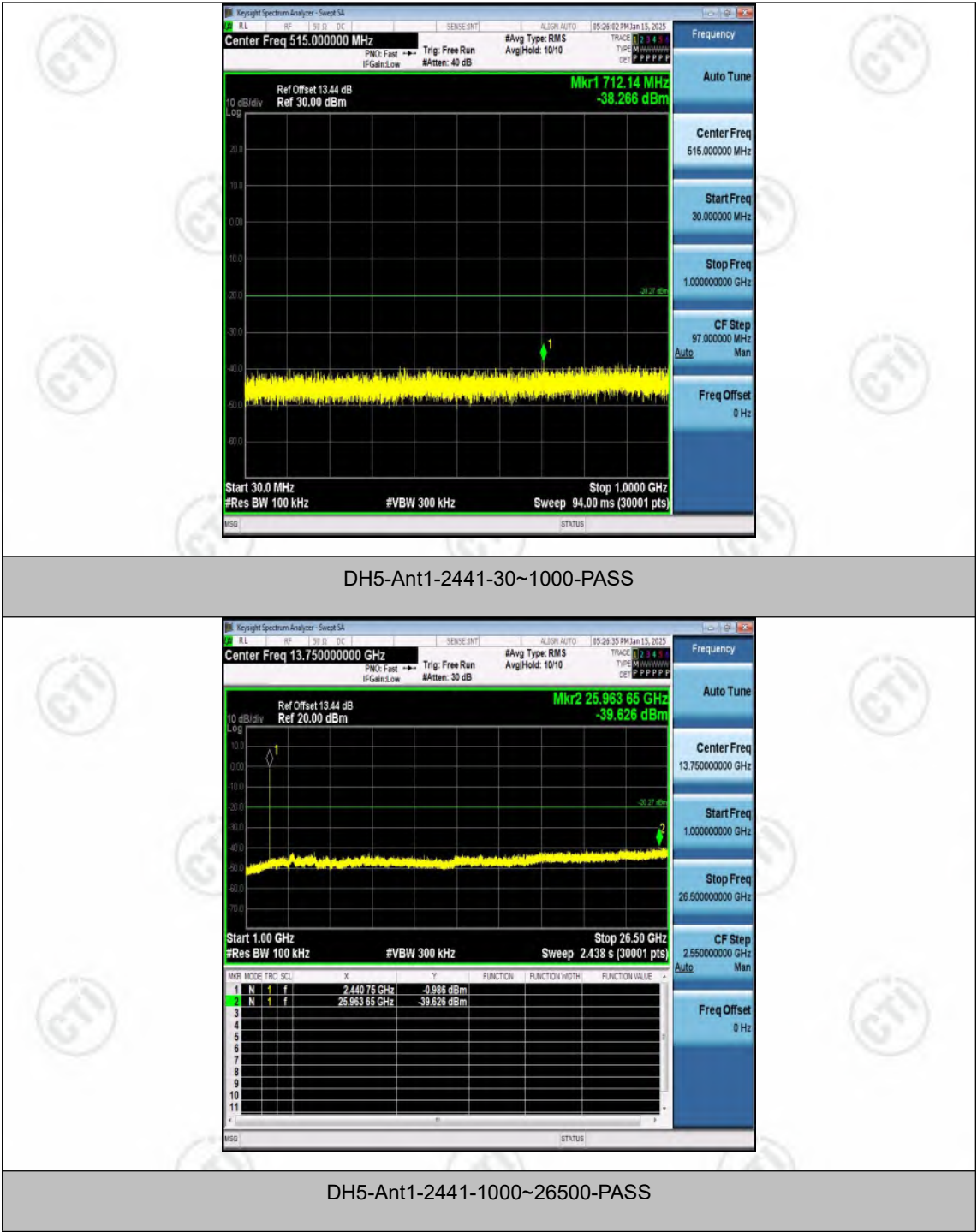


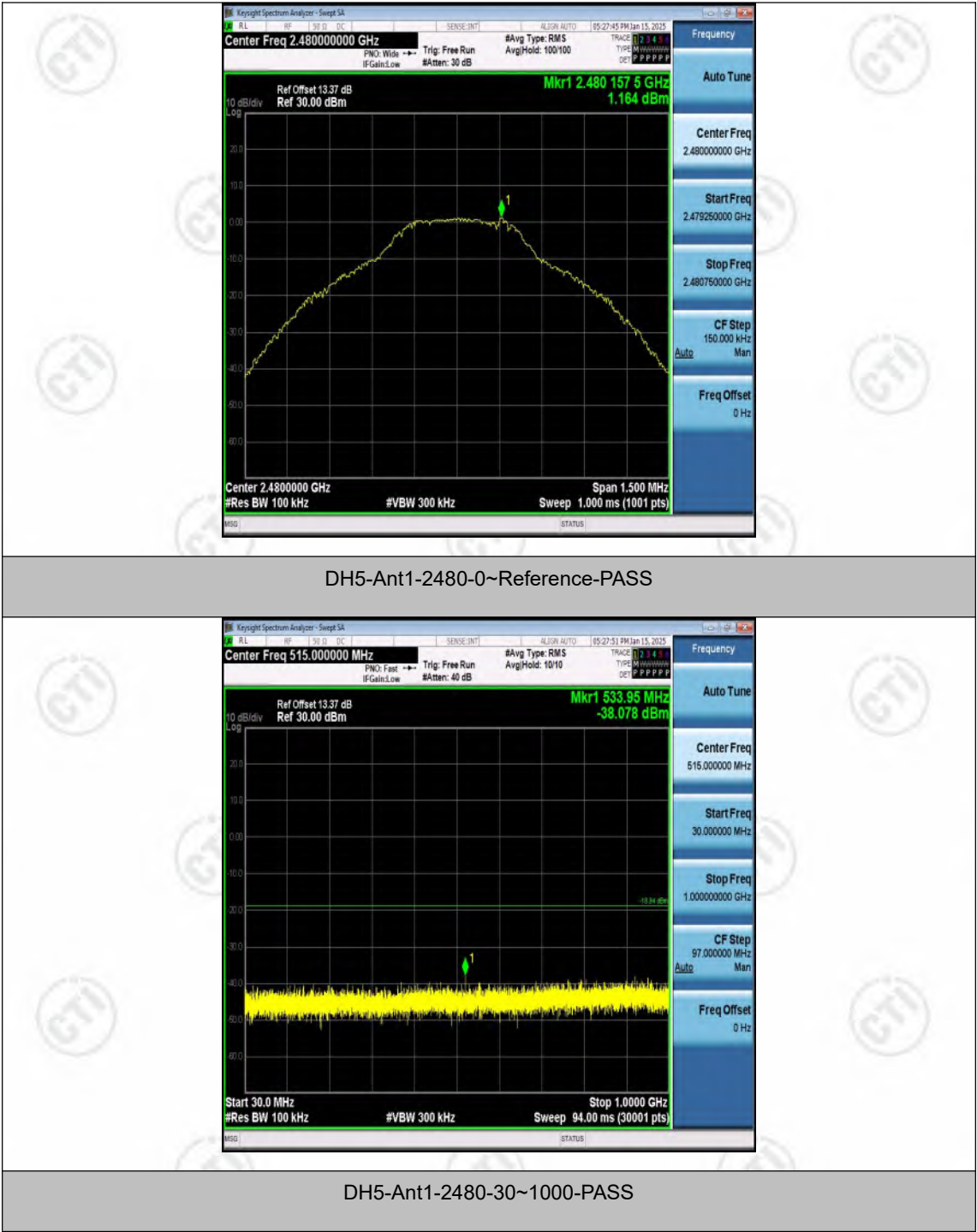


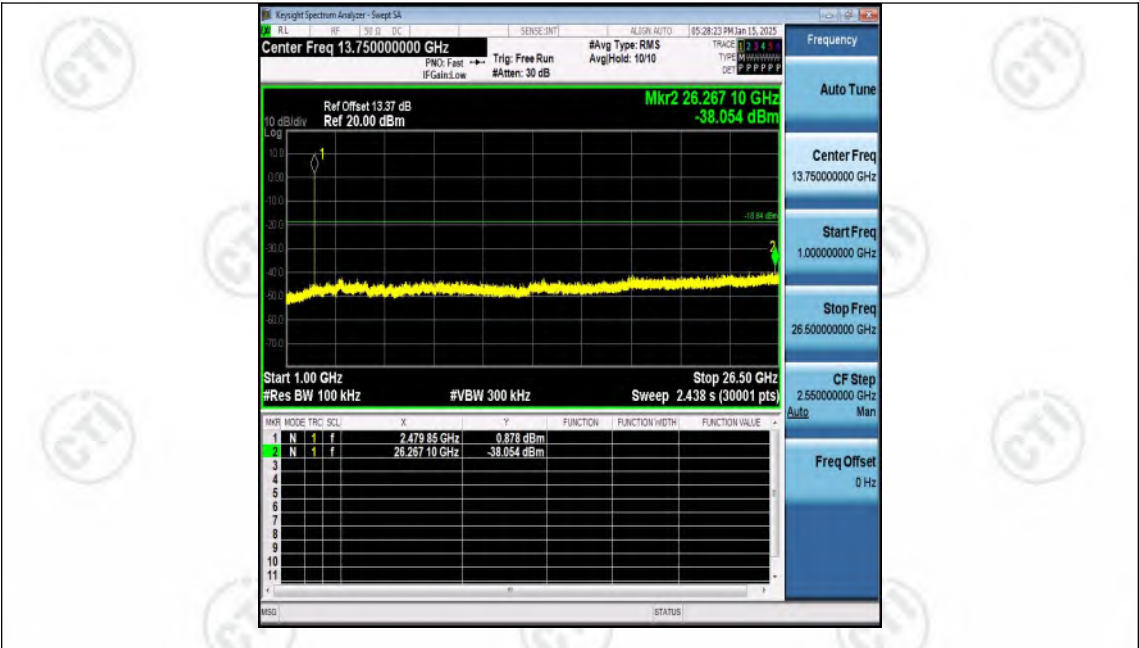
DH5-Ant1-2402-1000~26500-PASS



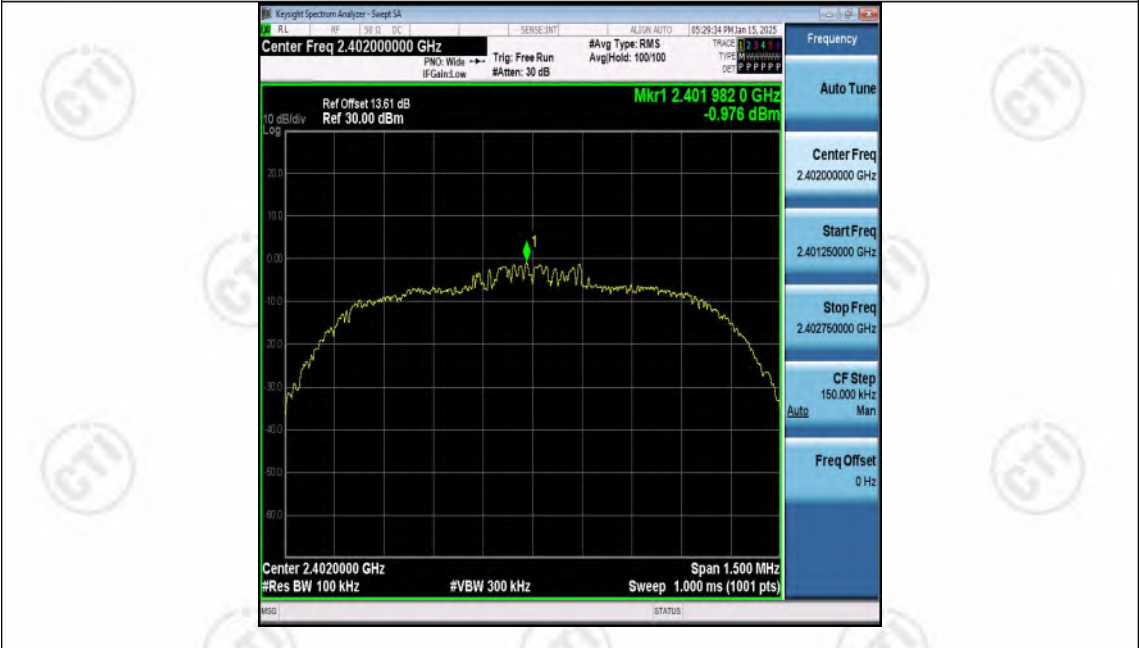
DH5-Ant1-2441-0~Reference-PASS



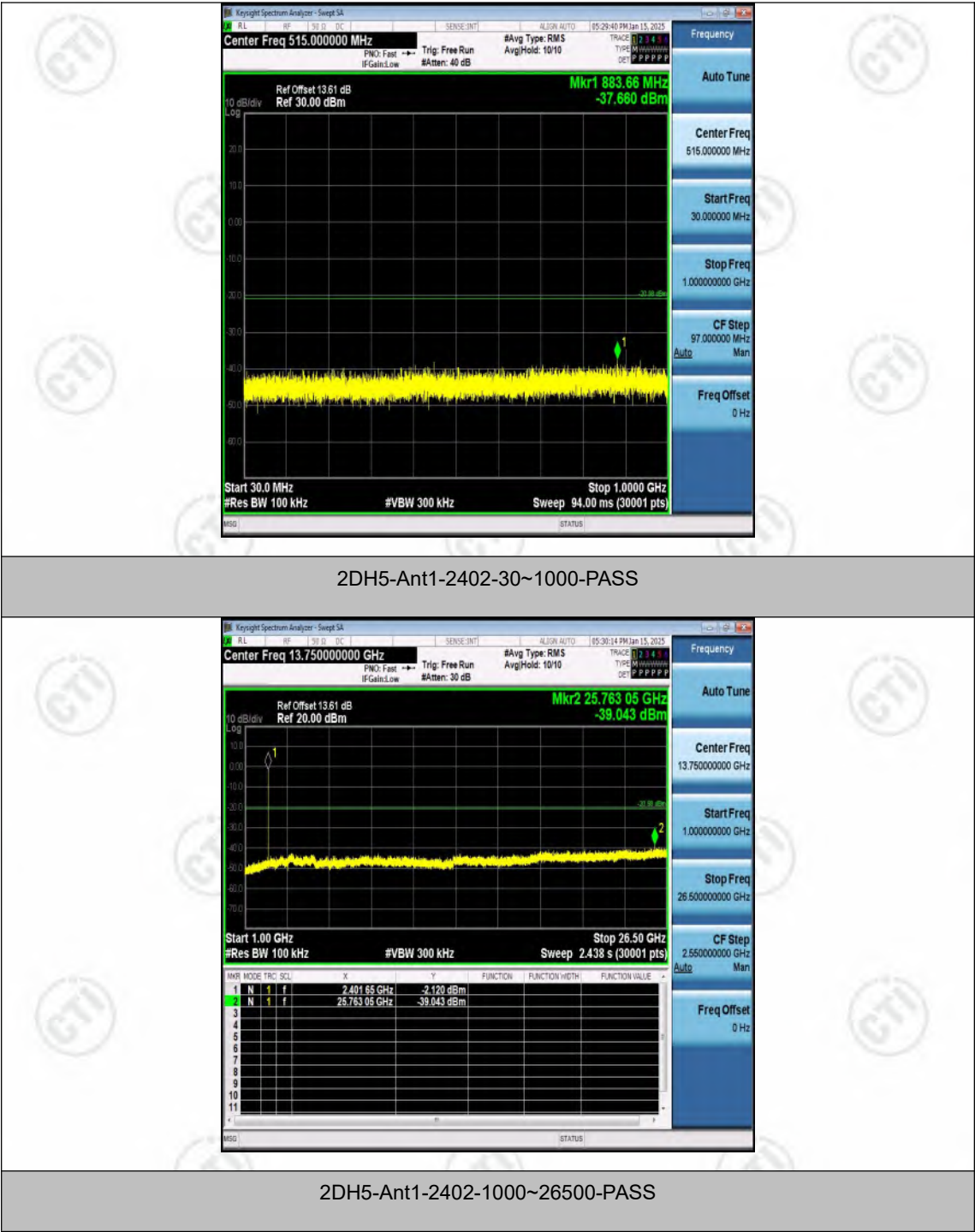


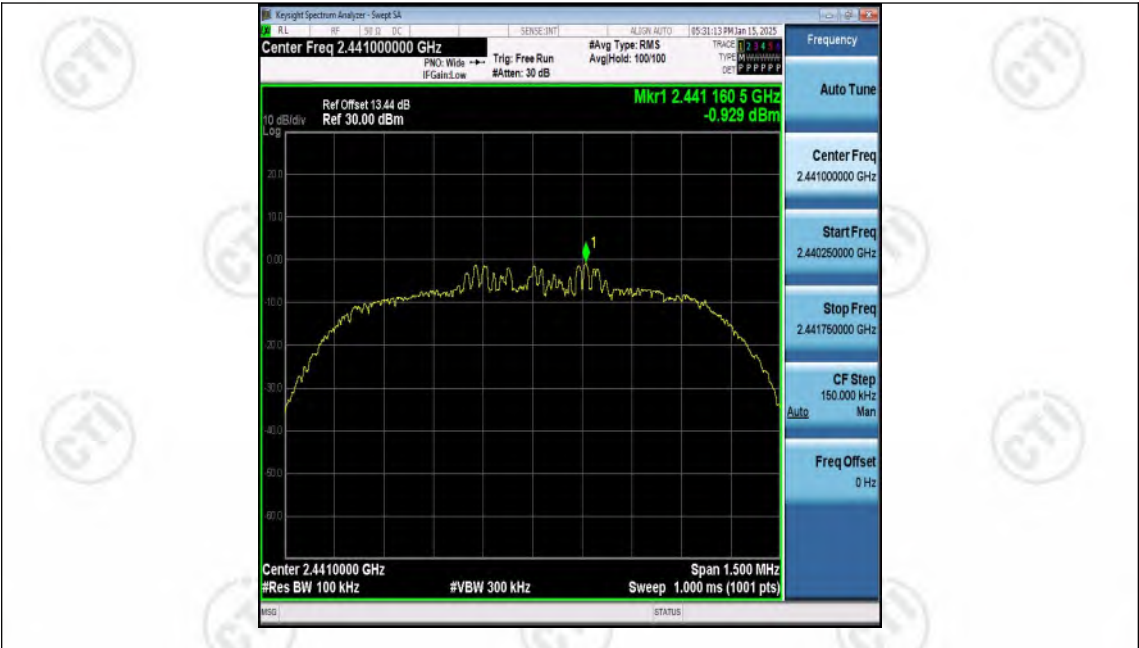


DH5-Ant1-2480-1000~26500-PASS

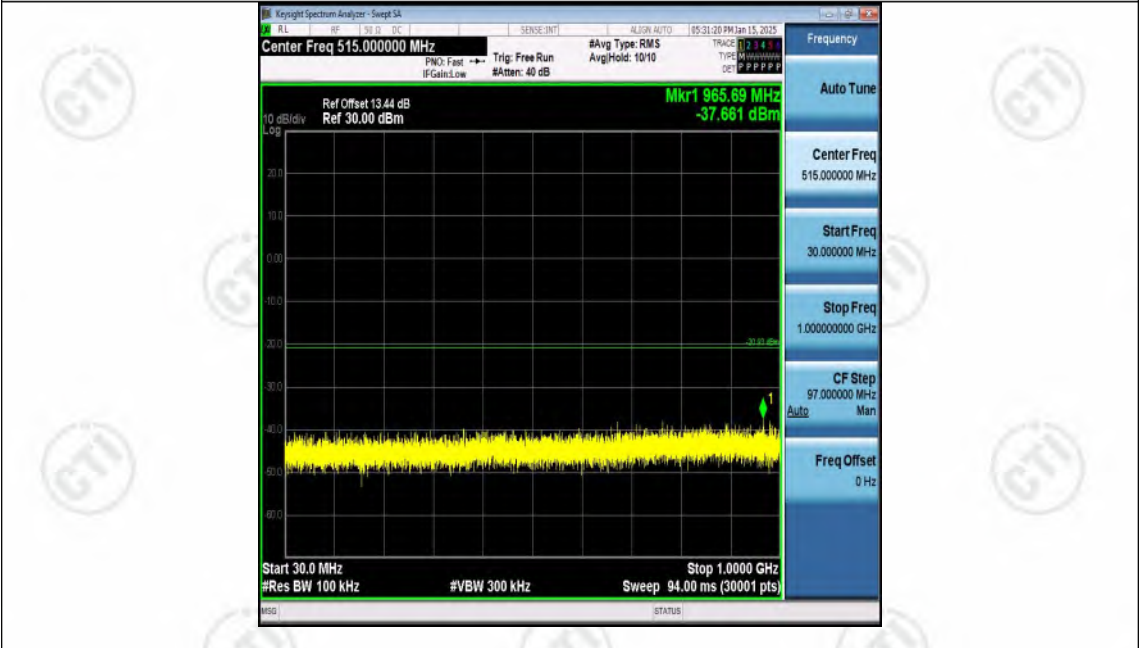


2DH5-Ant1-2402-0~Reference-PASS

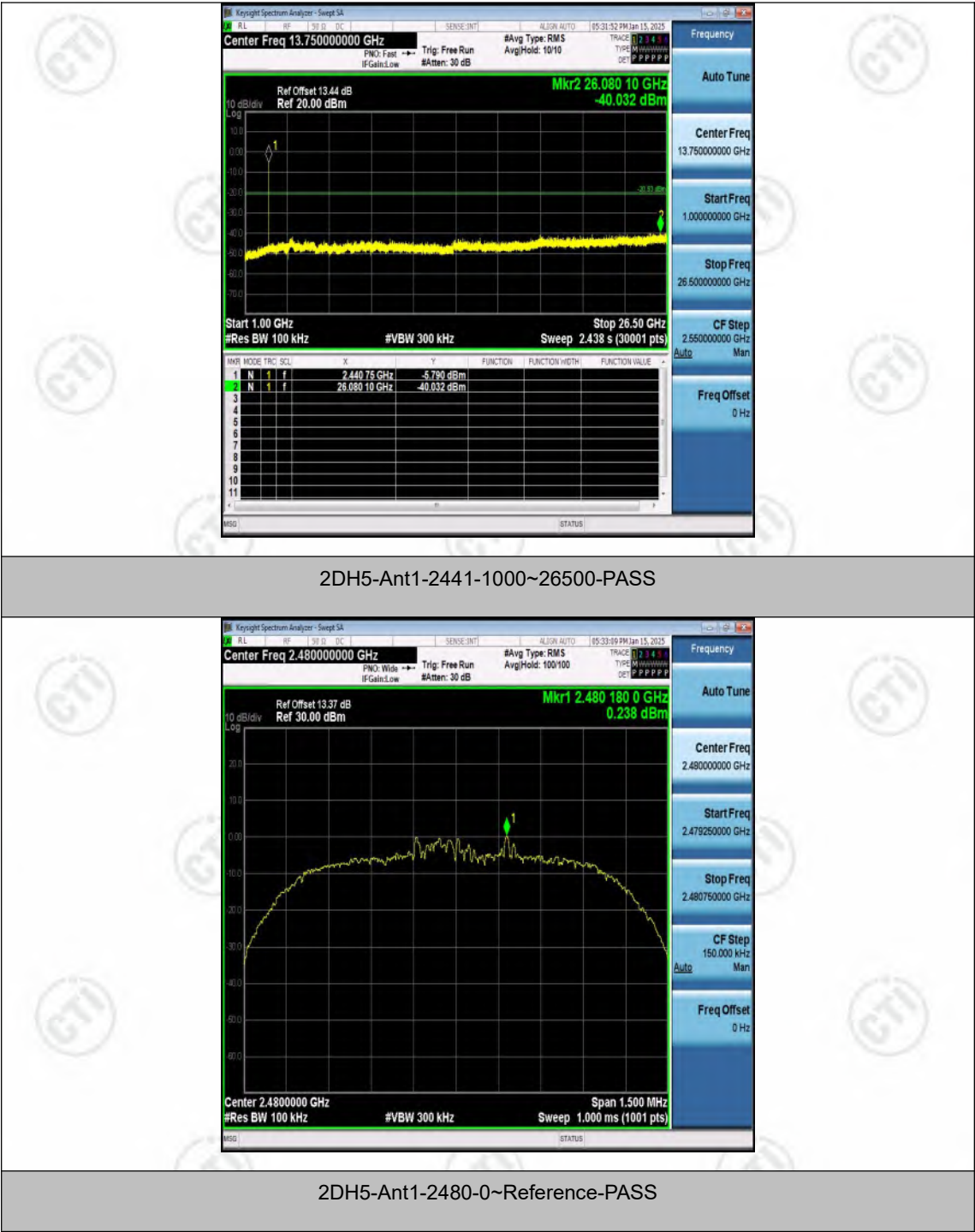


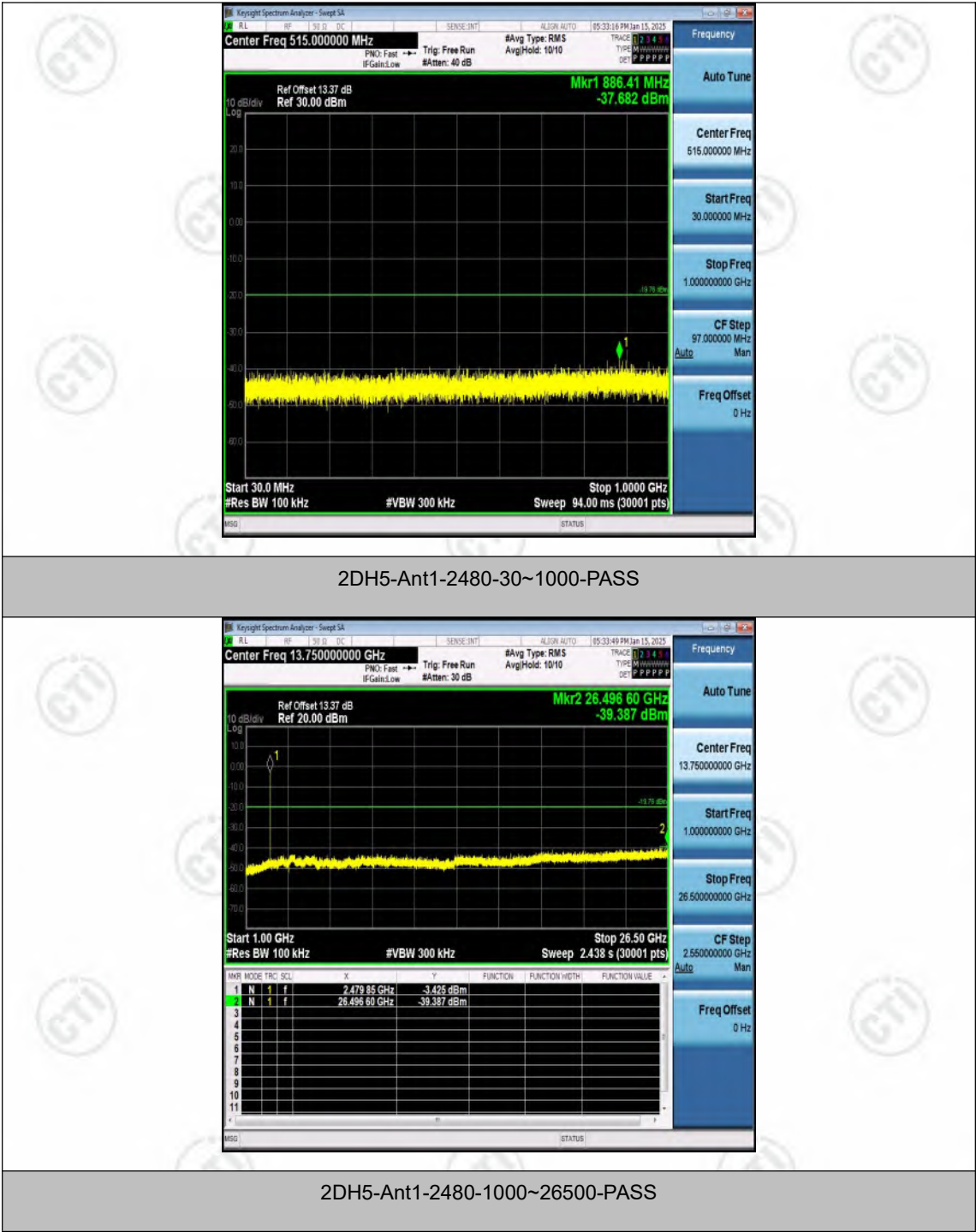


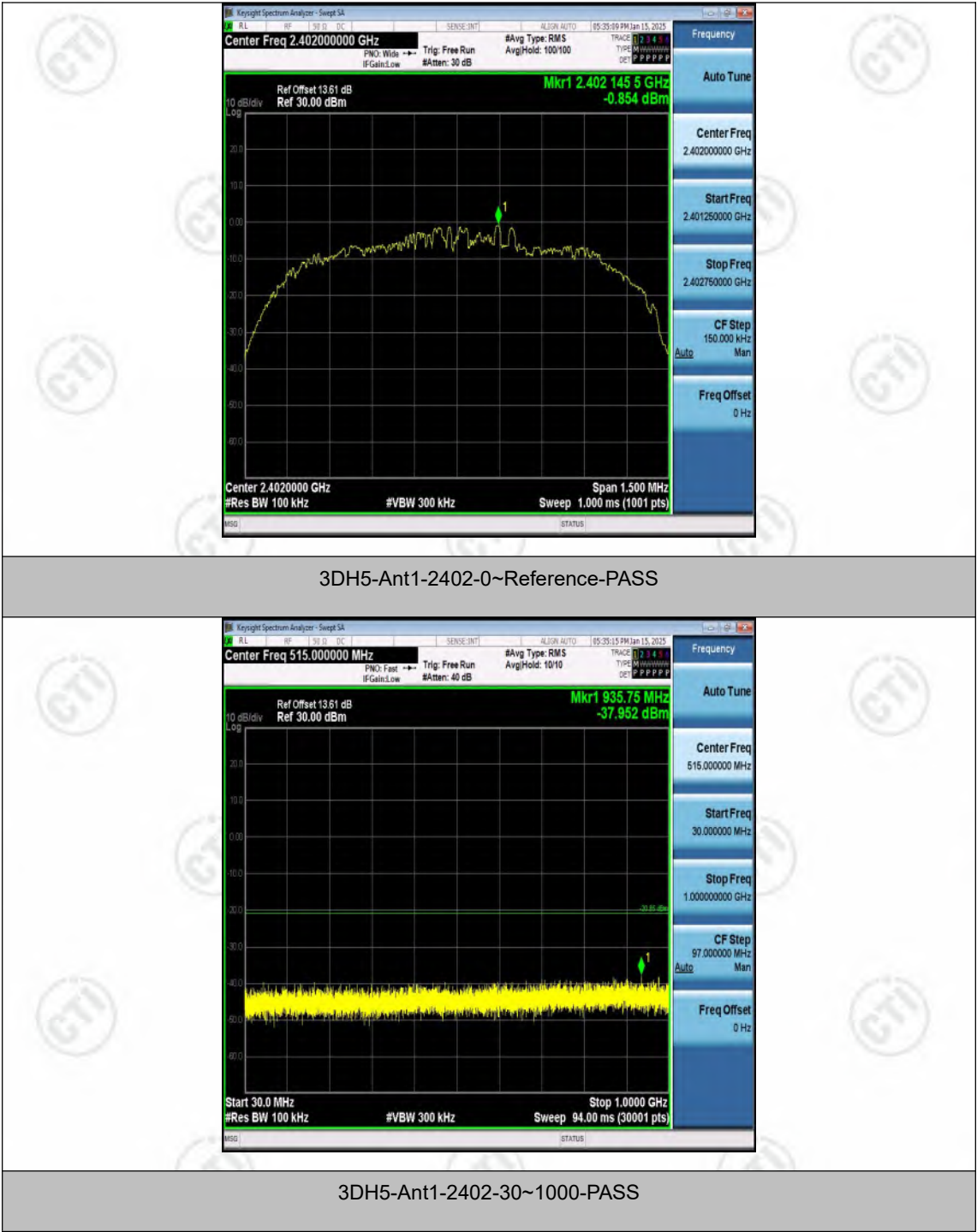
2DH5-Ant1-2441-0~Reference-PASS

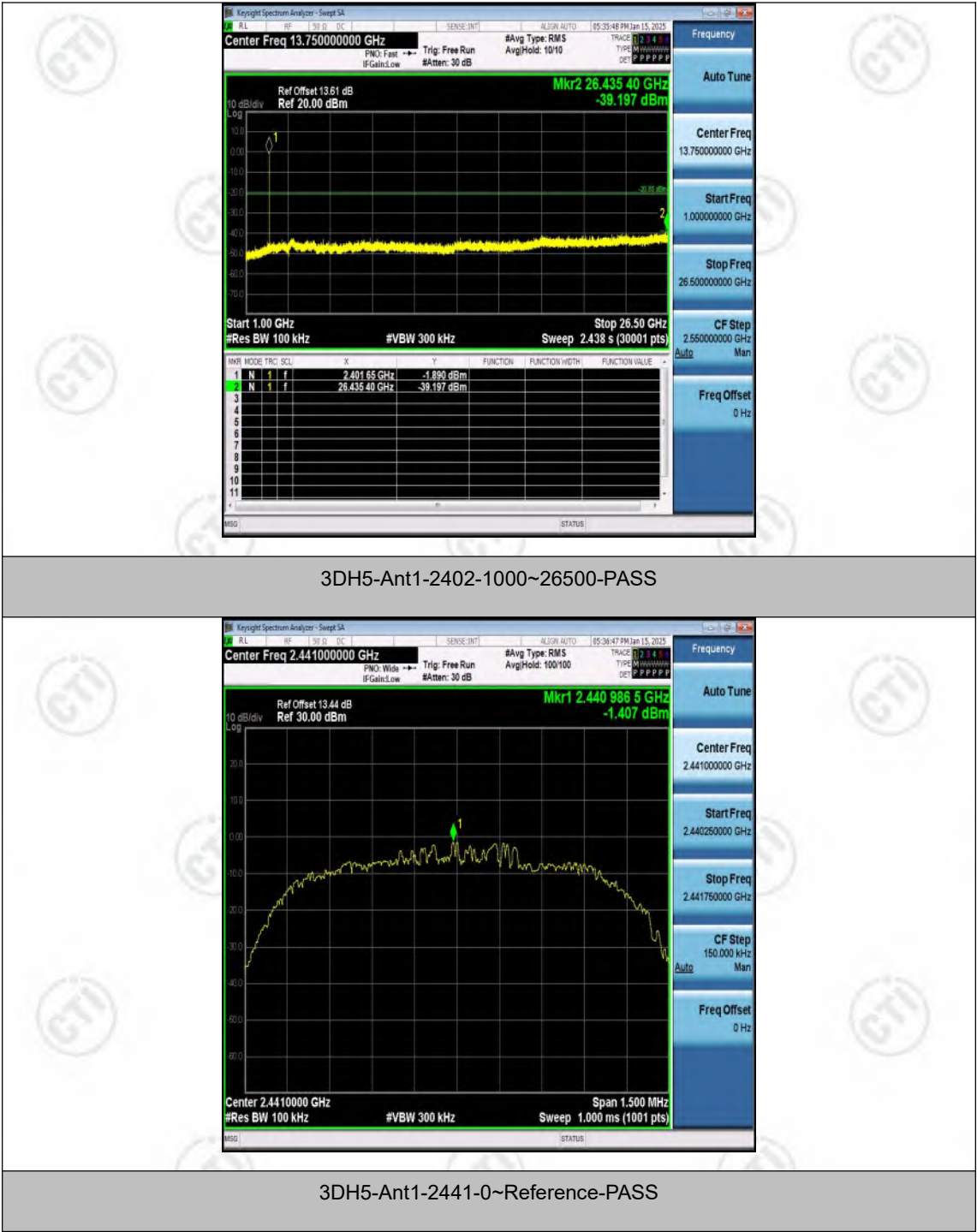


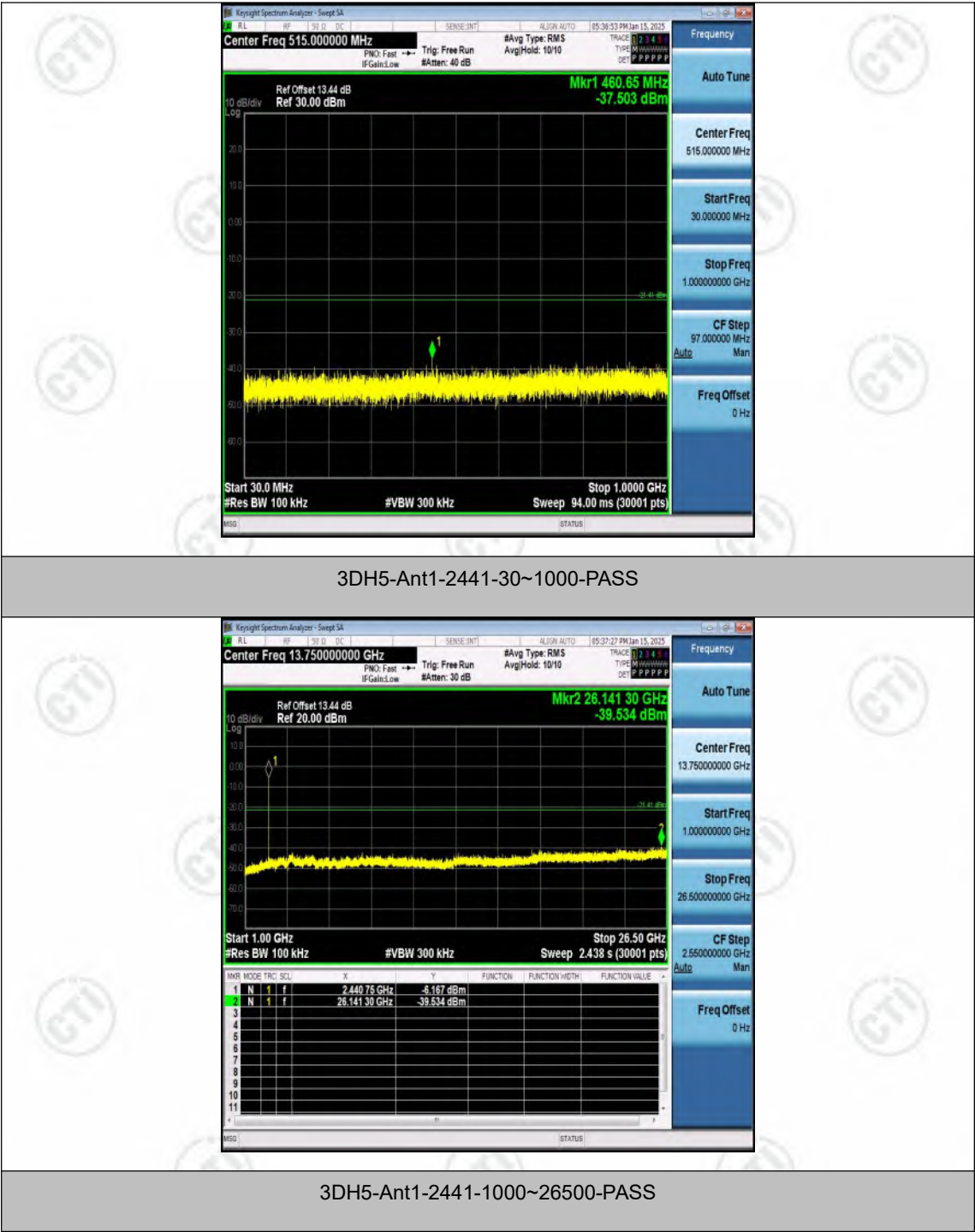
2DH5-Ant1-2441-30~1000-PASS

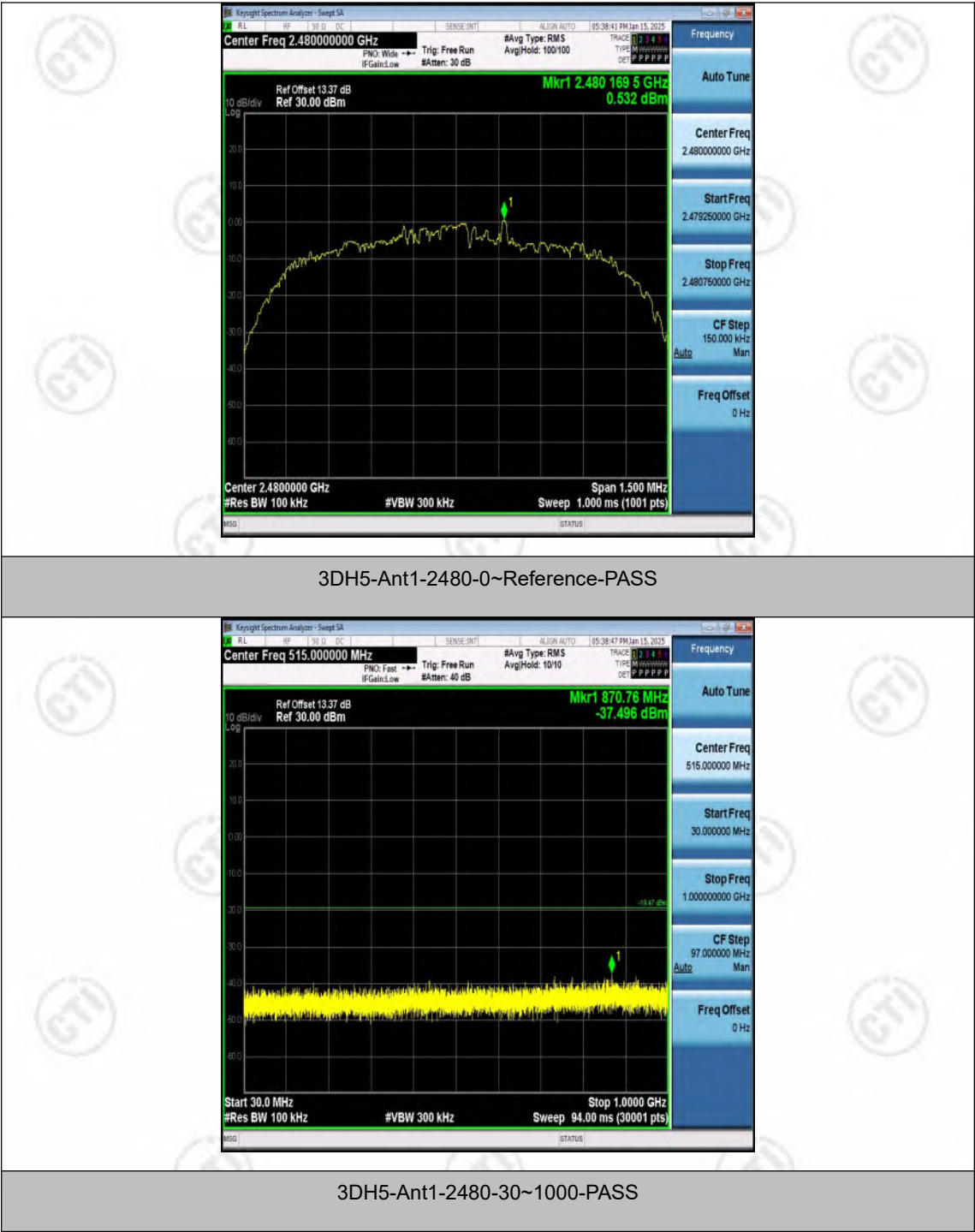


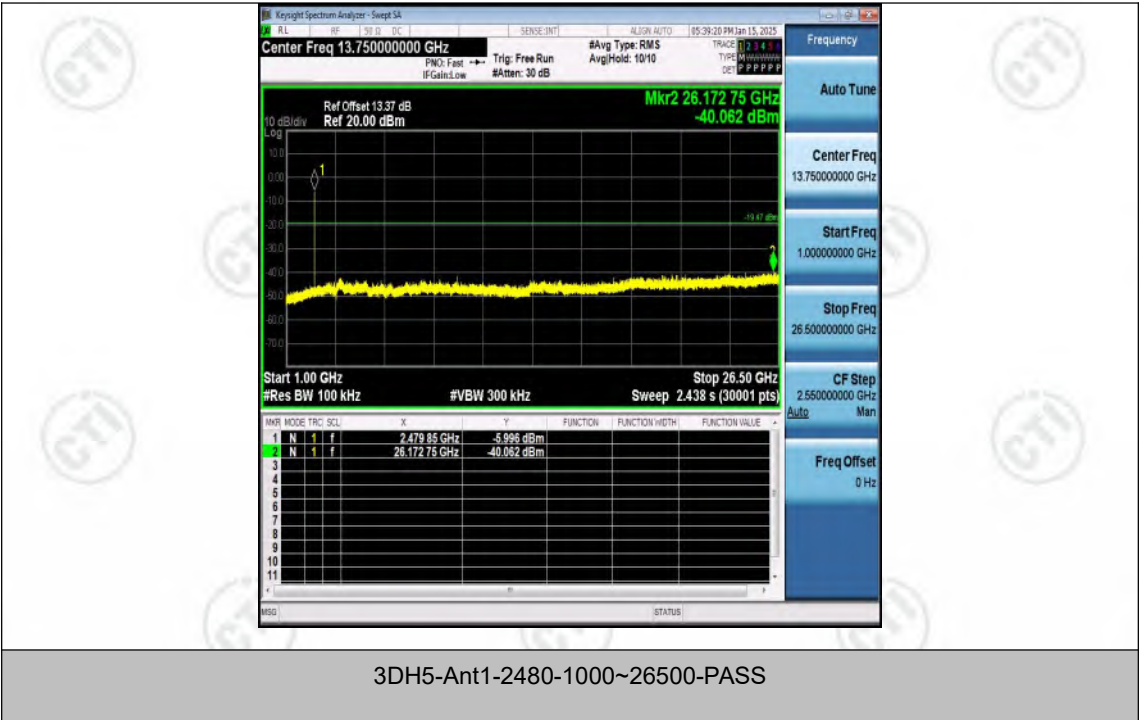










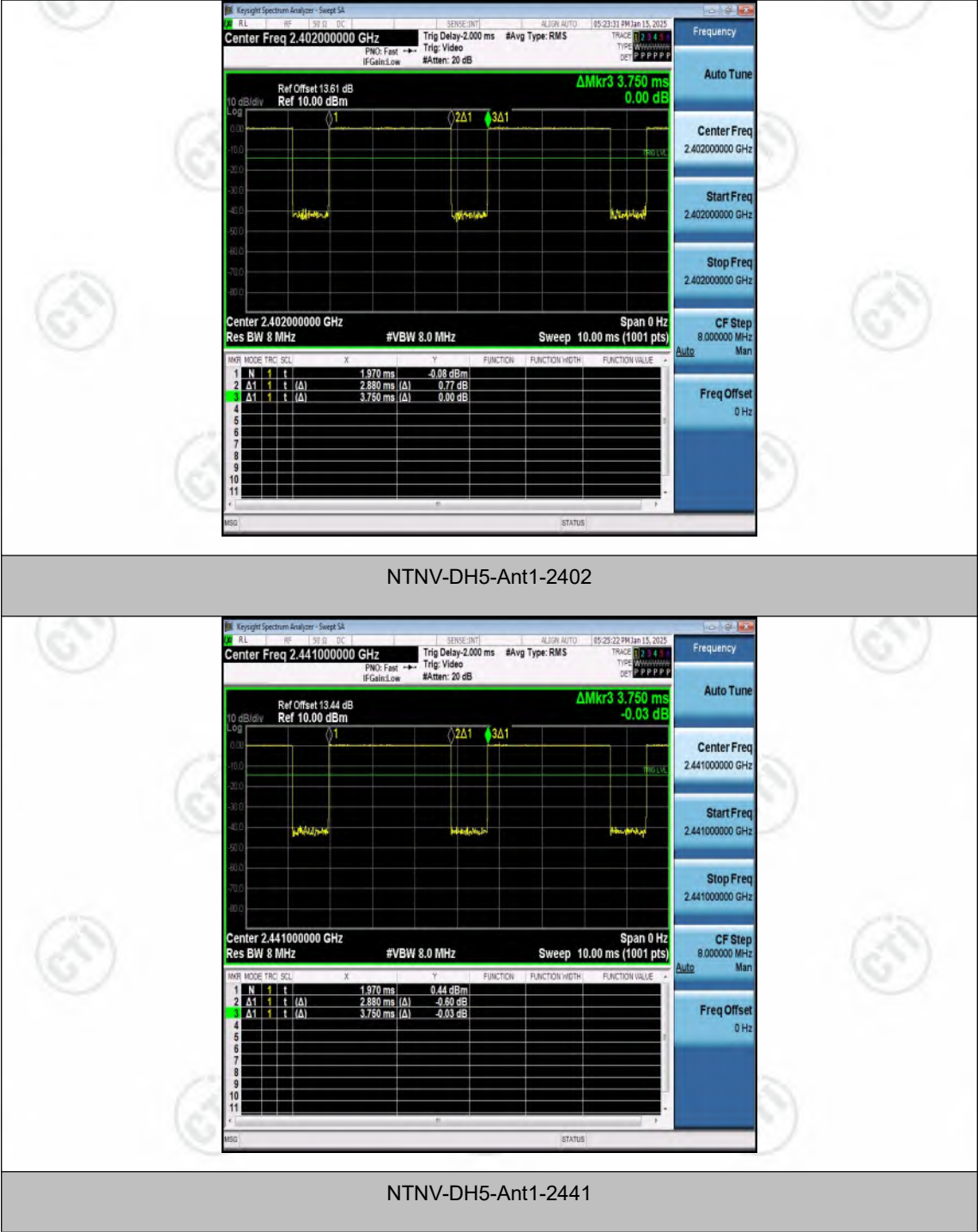


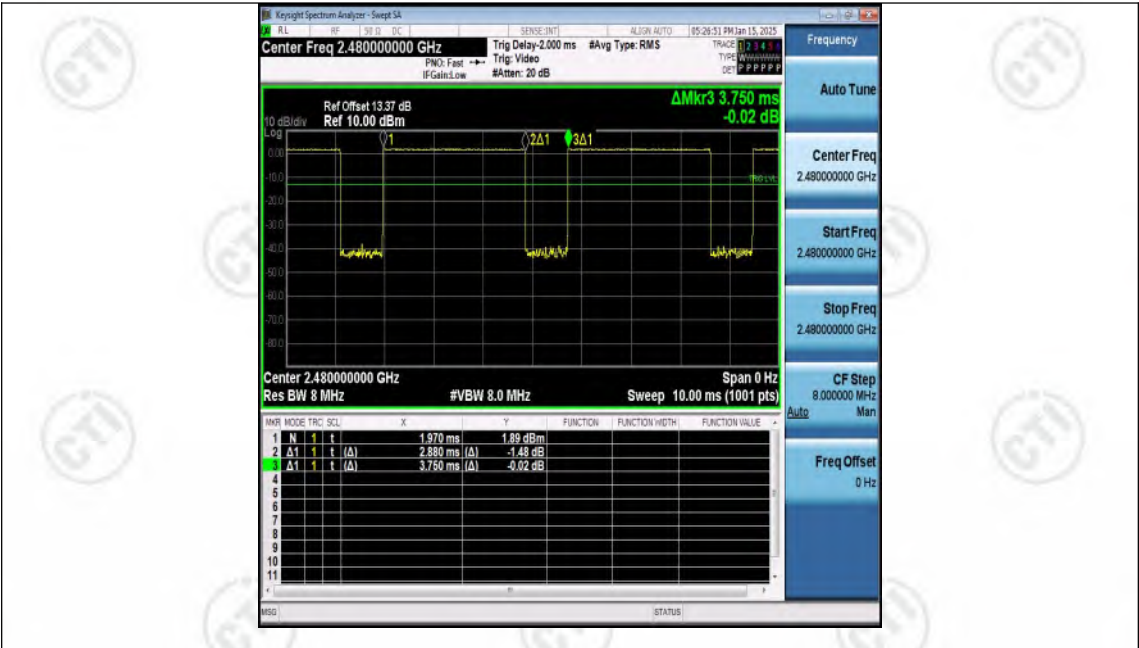
Appendix I: Duty Cycle

Test Result

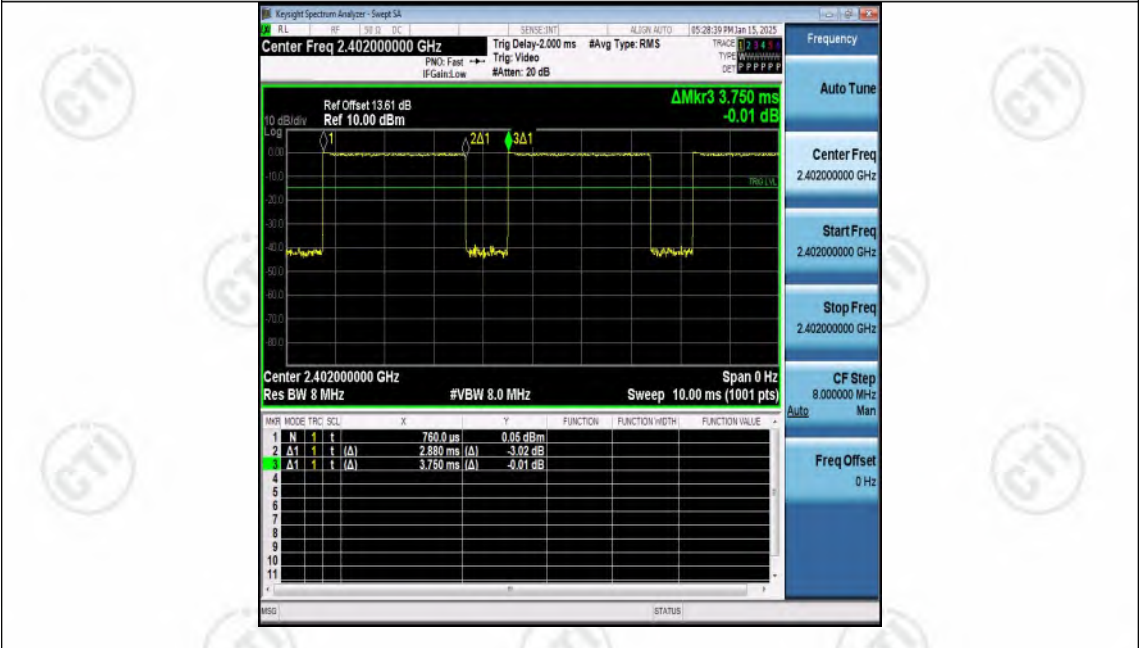
TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.88	3.75	76.80	1.15
2DH5	Ant1	2480	2.88	3.75	76.80	1.15
3DH5	Ant1	2402	2.88	3.75	76.80	1.15
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

Test Graphs

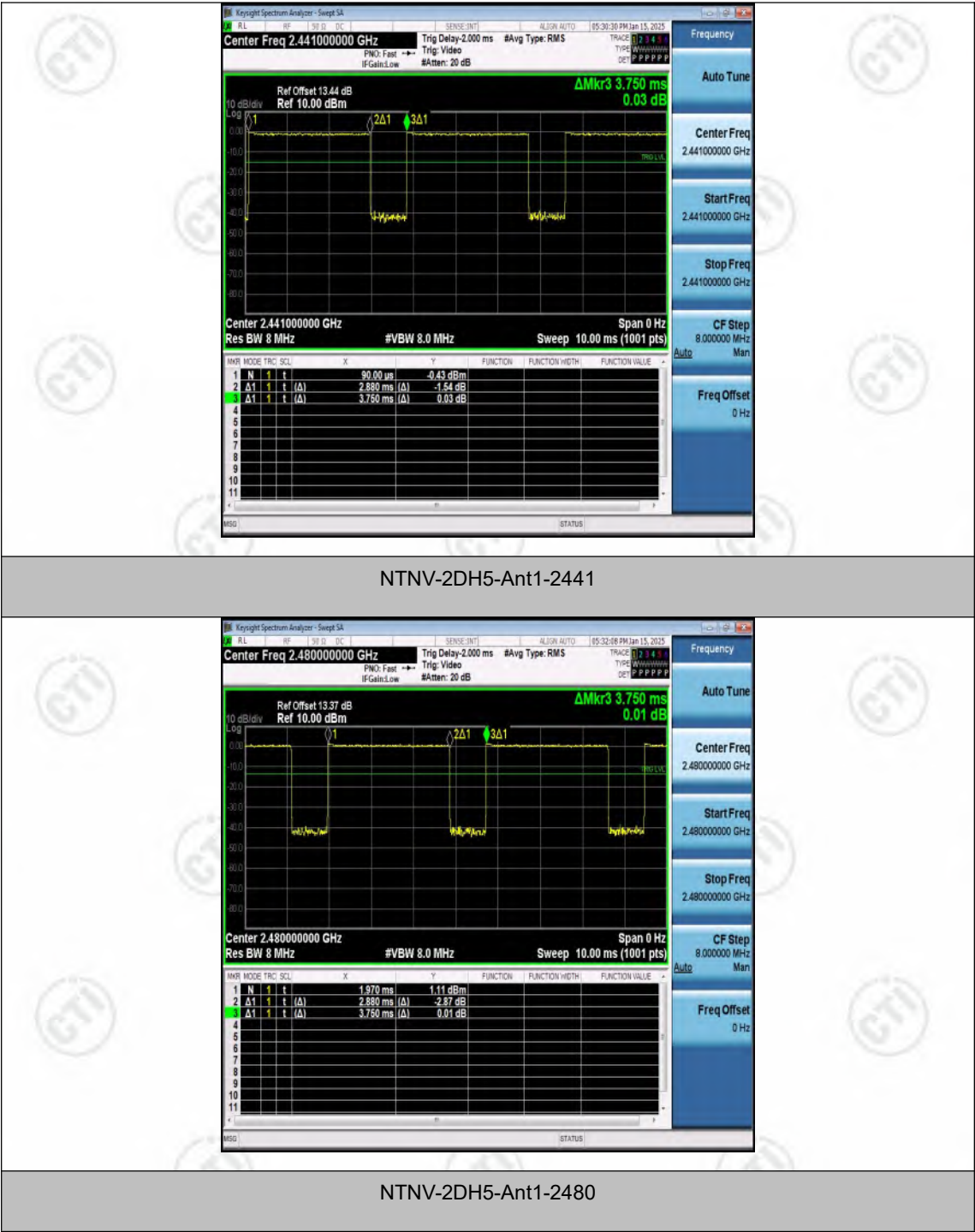


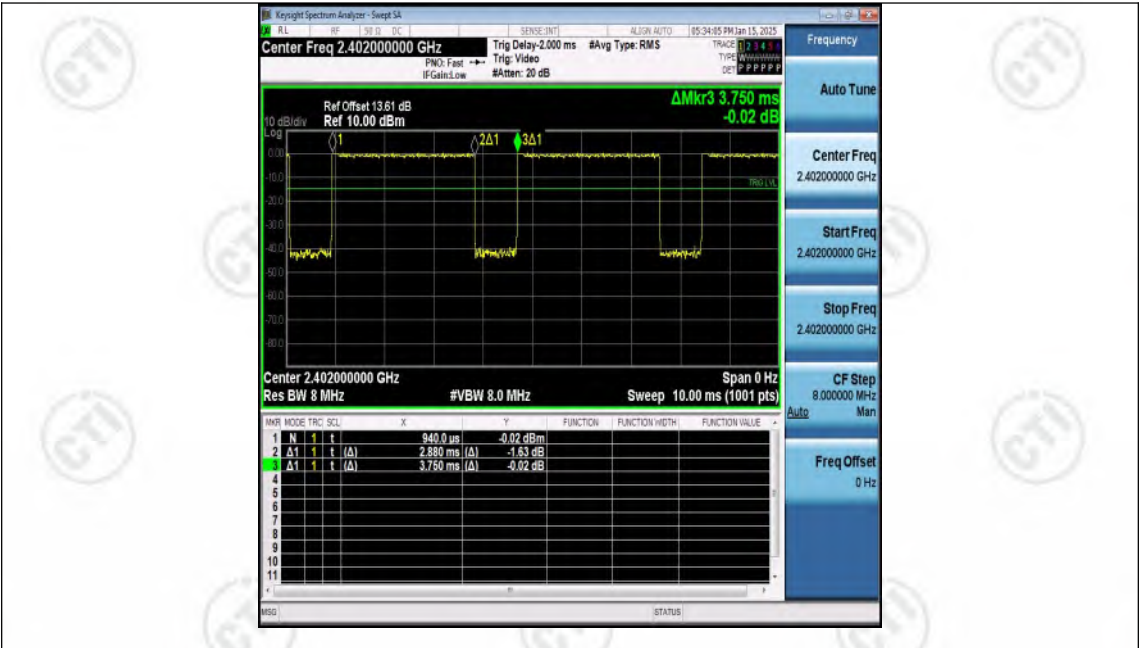


NTNV-DH5-Ant1-2480

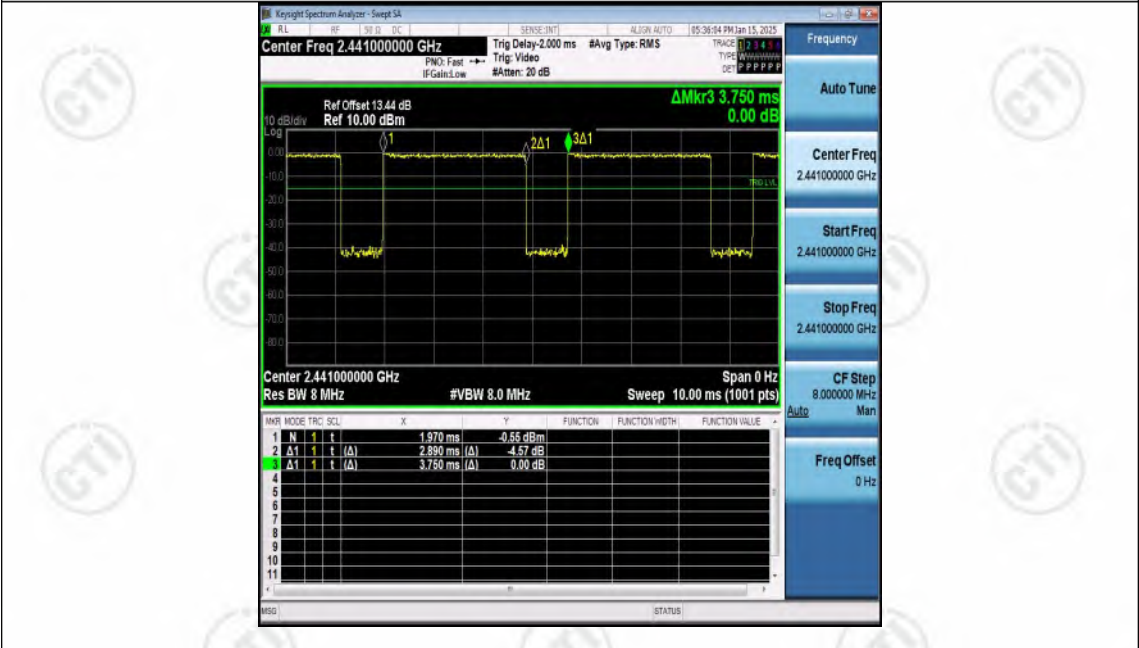


NTNV-2DH5-Ant1-2402

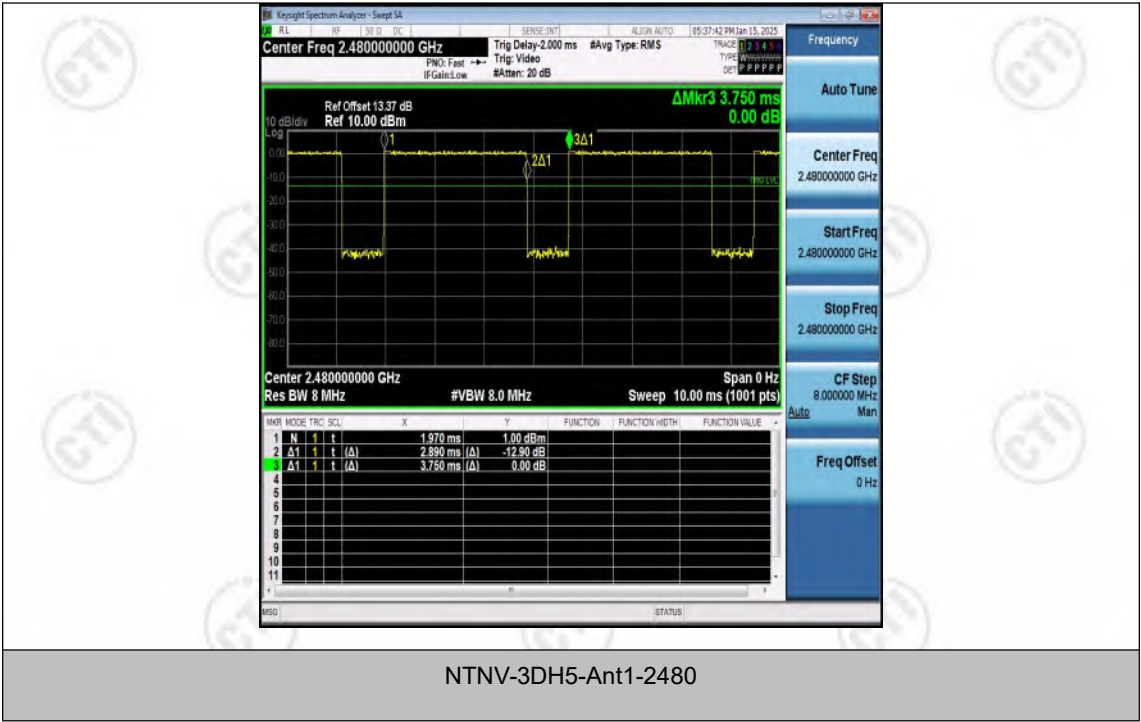




NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



*** End of Report ***