

Appendix: 2.4GHz Wi-Fi

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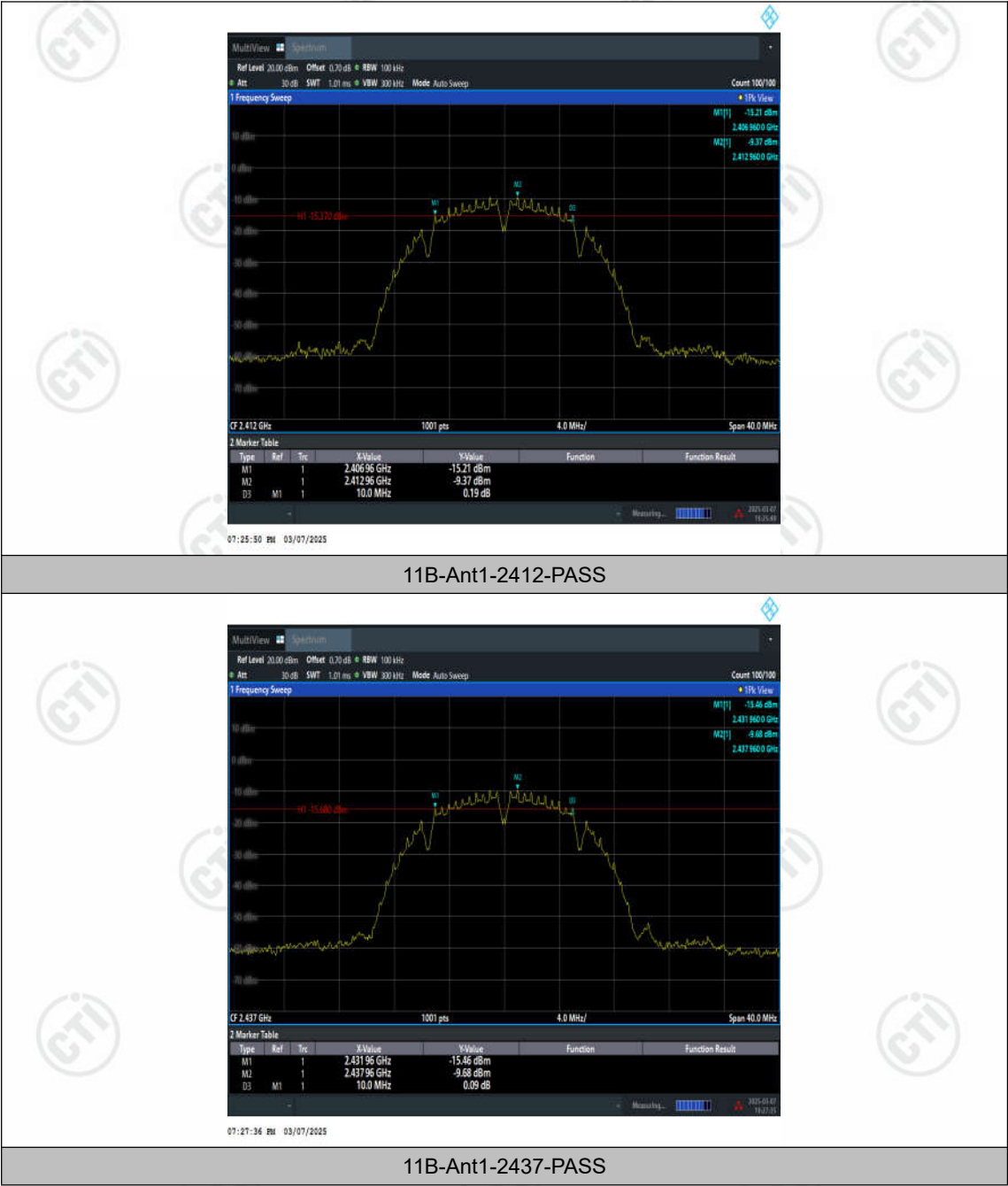
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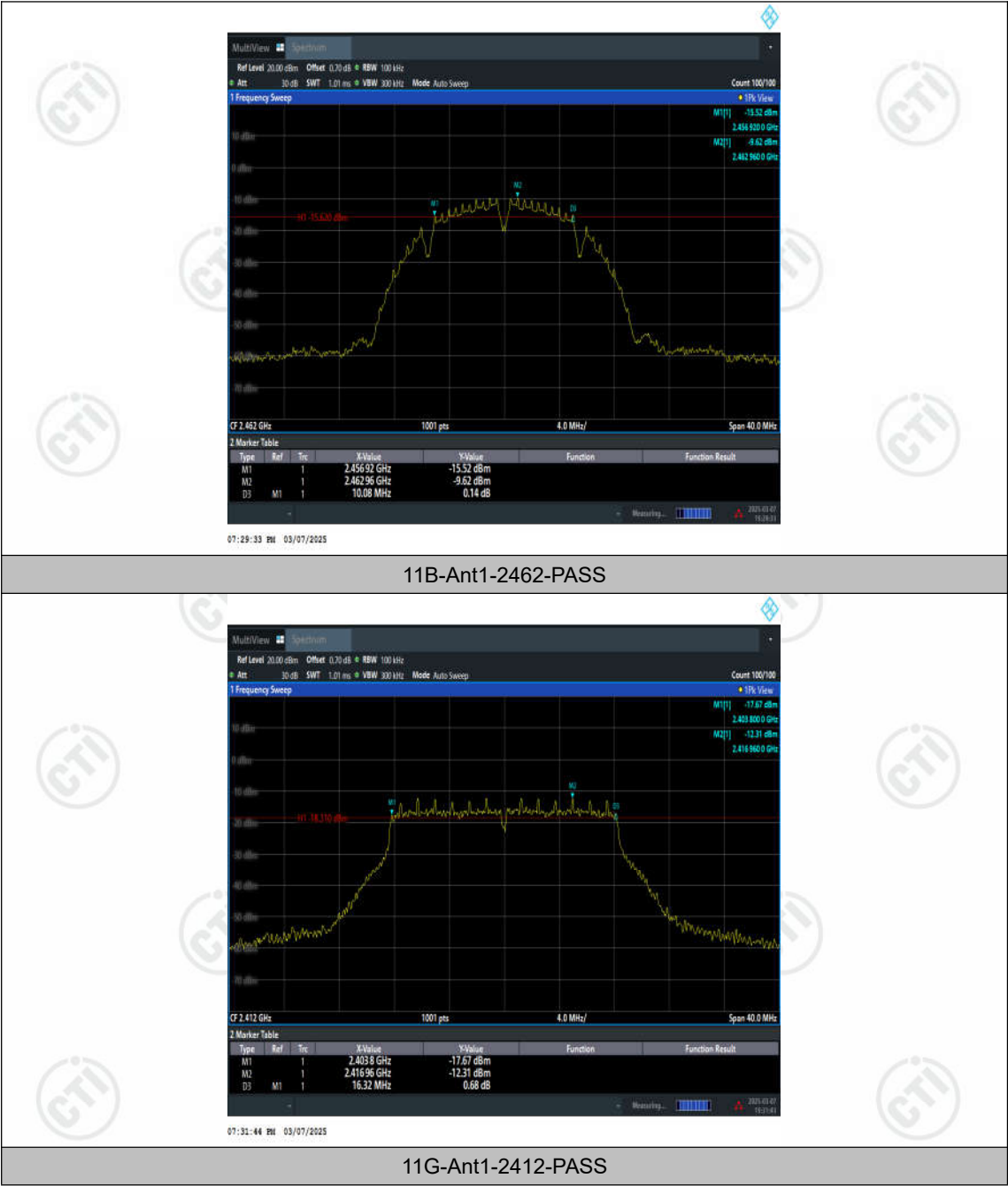
Appendix A: DTS Bandwidth

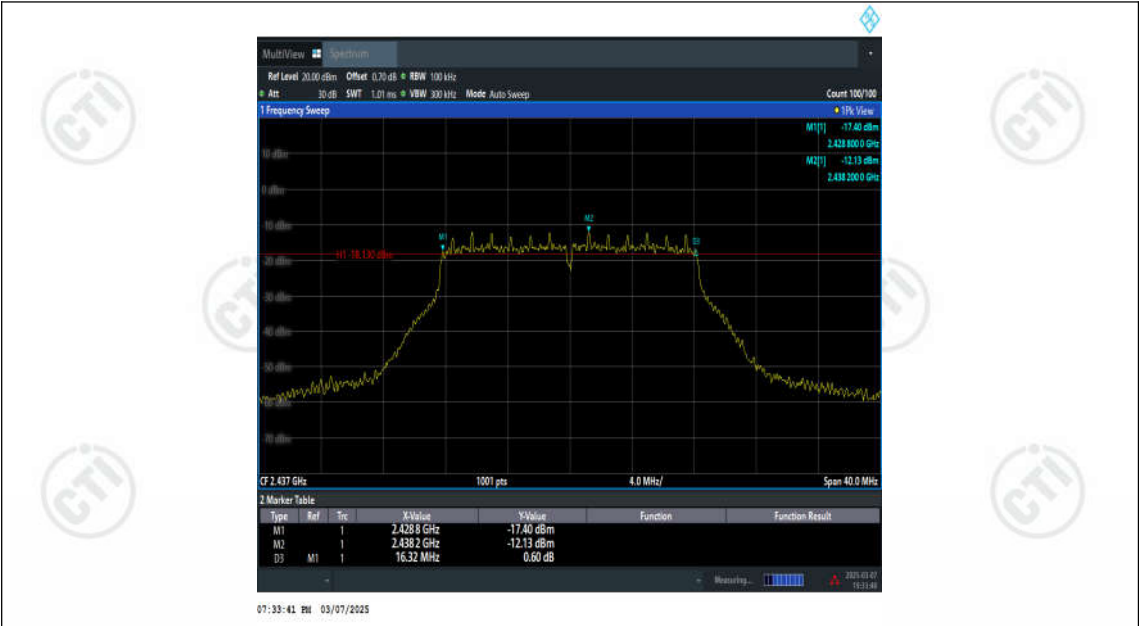
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.00	2406.96	2416.96	0.5	PASS
11B	Ant1	2437	10.00	2431.96	2441.96	0.5	PASS
11B	Ant1	2462	10.08	2456.92	2467.00	0.5	PASS
11G	Ant1	2412	16.32	2403.80	2420.12	0.5	PASS
11G	Ant1	2437	16.32	2428.80	2445.12	0.5	PASS
11G	Ant1	2462	16.32	2453.80	2470.12	0.5	PASS
11N20SISO	Ant1	2412	17.56	2403.20	2420.76	0.5	PASS
11N20SISO	Ant1	2437	17.56	2428.20	2445.76	0.5	PASS
11N20SISO	Ant1	2462	17.56	2453.20	2470.76	0.5	PASS
11N40SISO	Ant1	2422	35.20	2404.40	2439.60	0.5	PASS
11N40SISO	Ant1	2437	35.20	2419.40	2454.60	0.5	PASS
11N40SISO	Ant1	2452	35.36	2434.40	2469.76	0.5	PASS

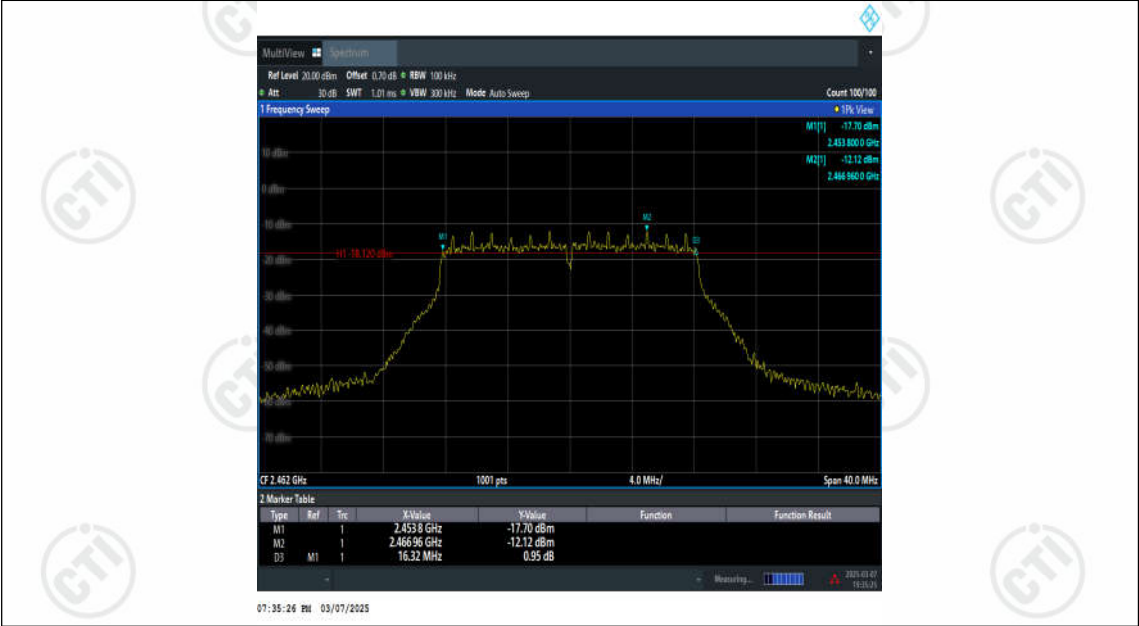
Test Graphs



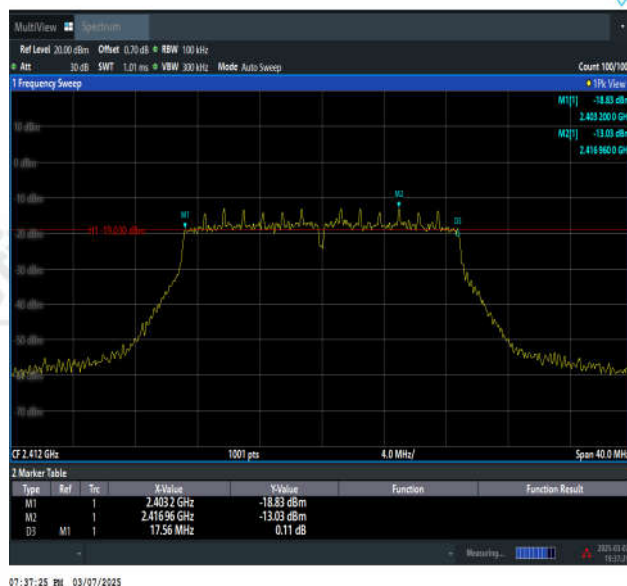




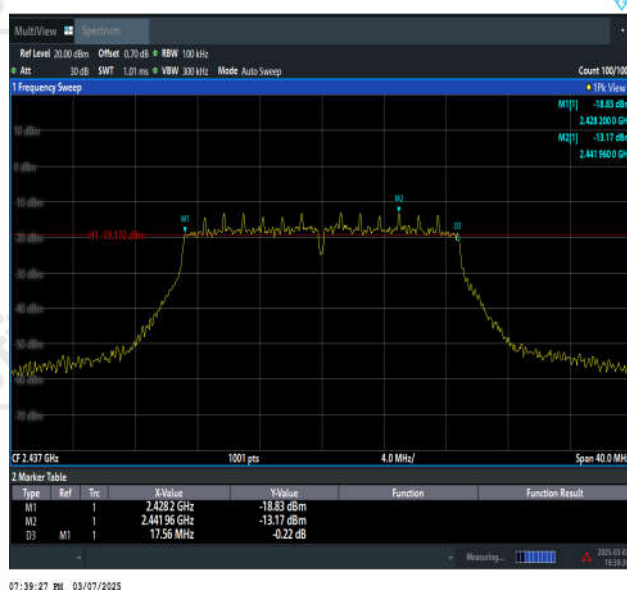
11G-Ant1-2437-PASS



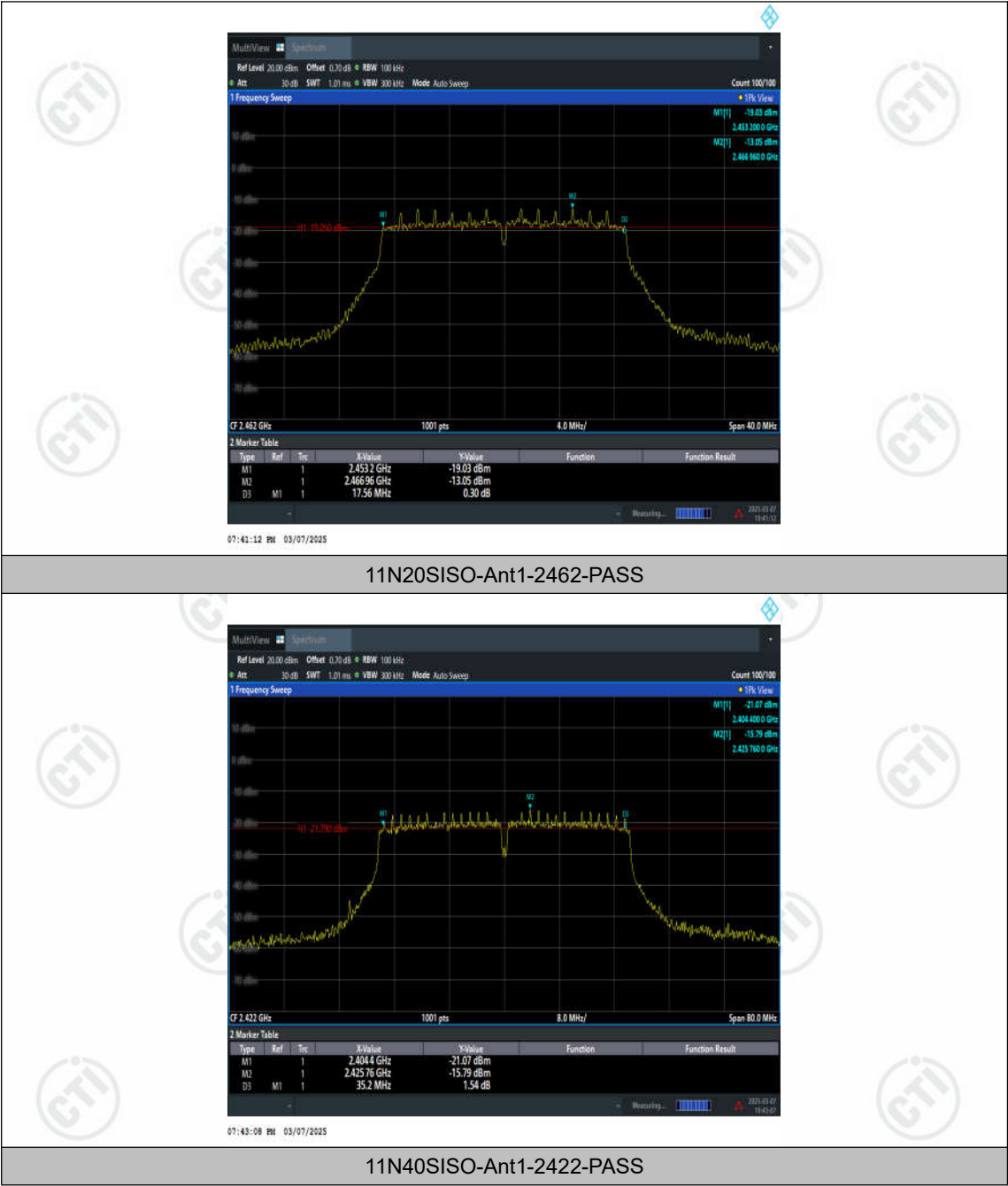
11G-Ant1-2462-PASS

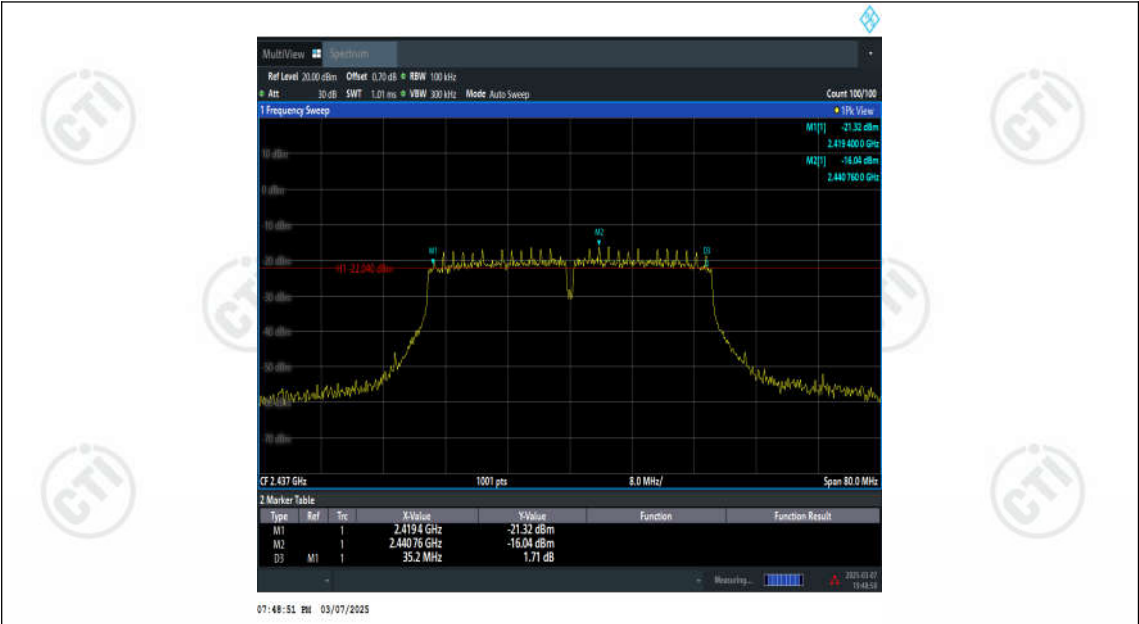


11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS





11N40SISO-Ant1-2437-PASS



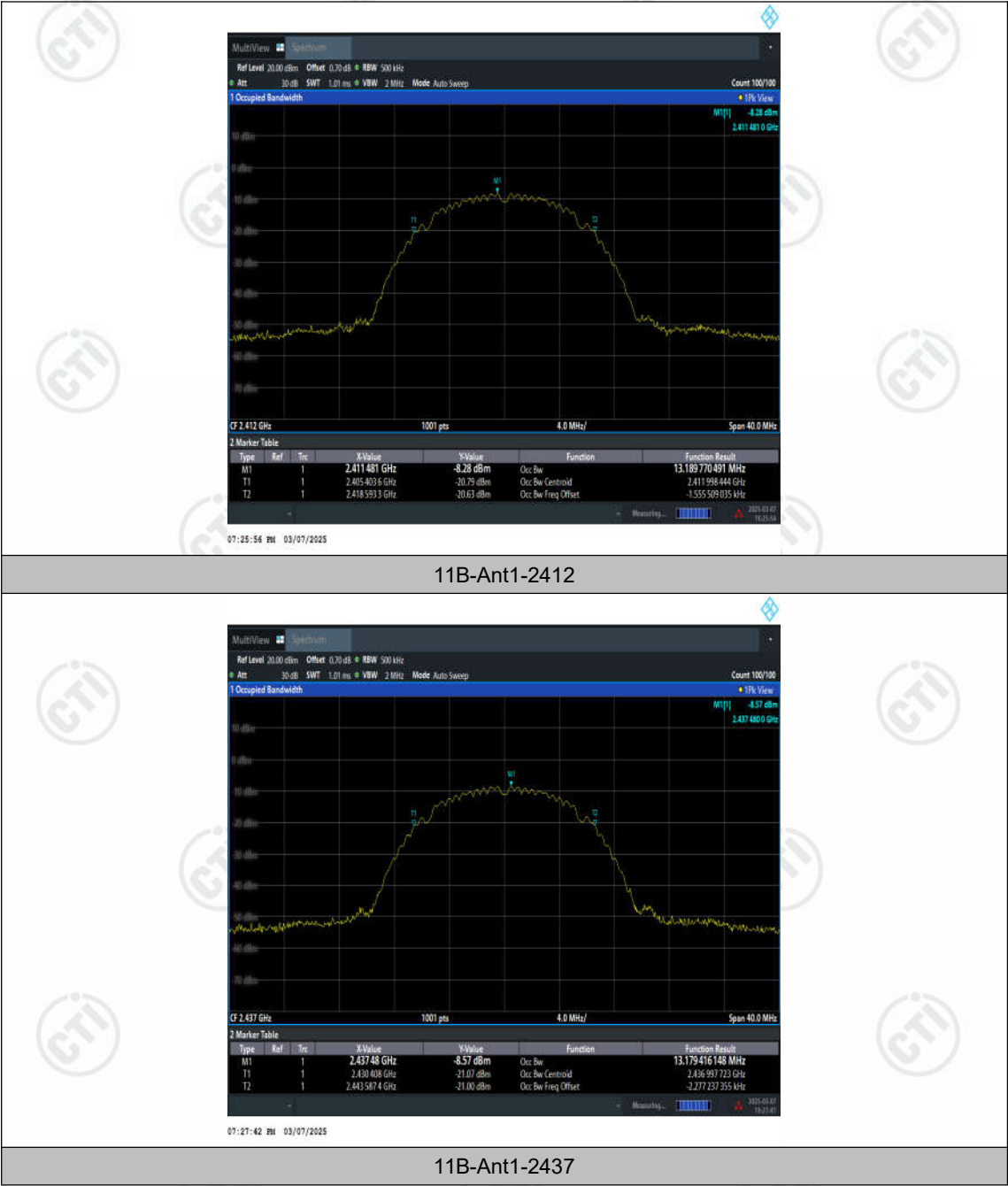
11N40SISO-Ant1-2452-PASS

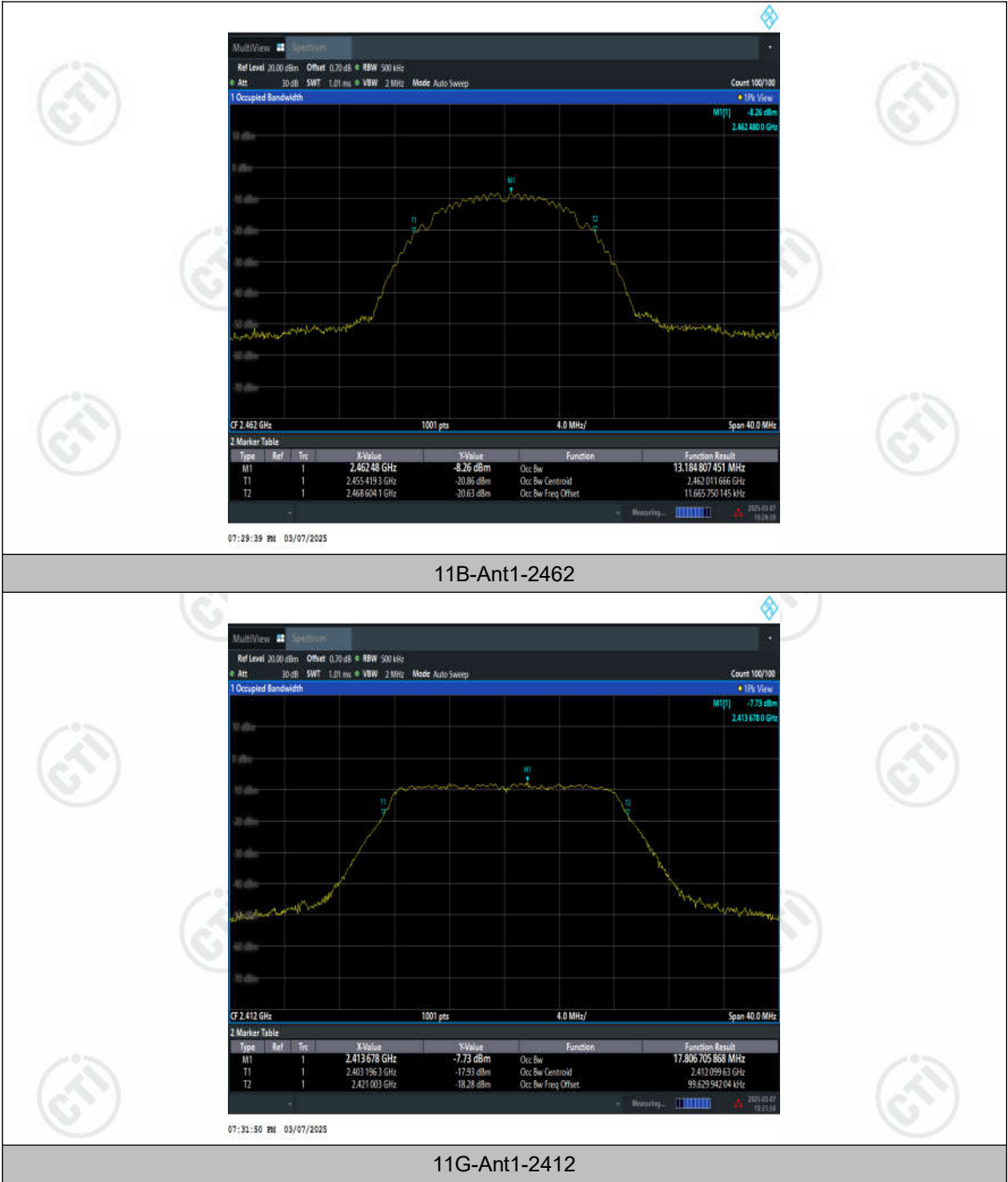
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.19	2405.4036	2418.5933	---	---
11B	Ant1	2437	13.179	2430.4080	2443.5874	---	---
11B	Ant1	2462	13.185	2455.4193	2468.6041	---	---
11G	Ant1	2412	17.807	2403.1963	2421.0030	---	---
11G	Ant1	2437	17.798	2428.1946	2445.9928	---	---
11G	Ant1	2462	17.79	2453.2114	2471.0018	---	---
11N20SISO	Ant1	2412	18.636	2402.6796	2421.3160	---	---
11N20SISO	Ant1	2437	18.629	2427.6858	2446.3150	---	---
11N20SISO	Ant1	2462	18.628	2452.7012	2471.3294	---	---
11N40SISO	Ant1	2422	37.109	2403.3663	2440.4752	---	---
11N40SISO	Ant1	2437	37.016	2418.4322	2455.4482	---	---
11N40SISO	Ant1	2452	36.972	2433.5639	2470.5361	---	---

Test Graphs







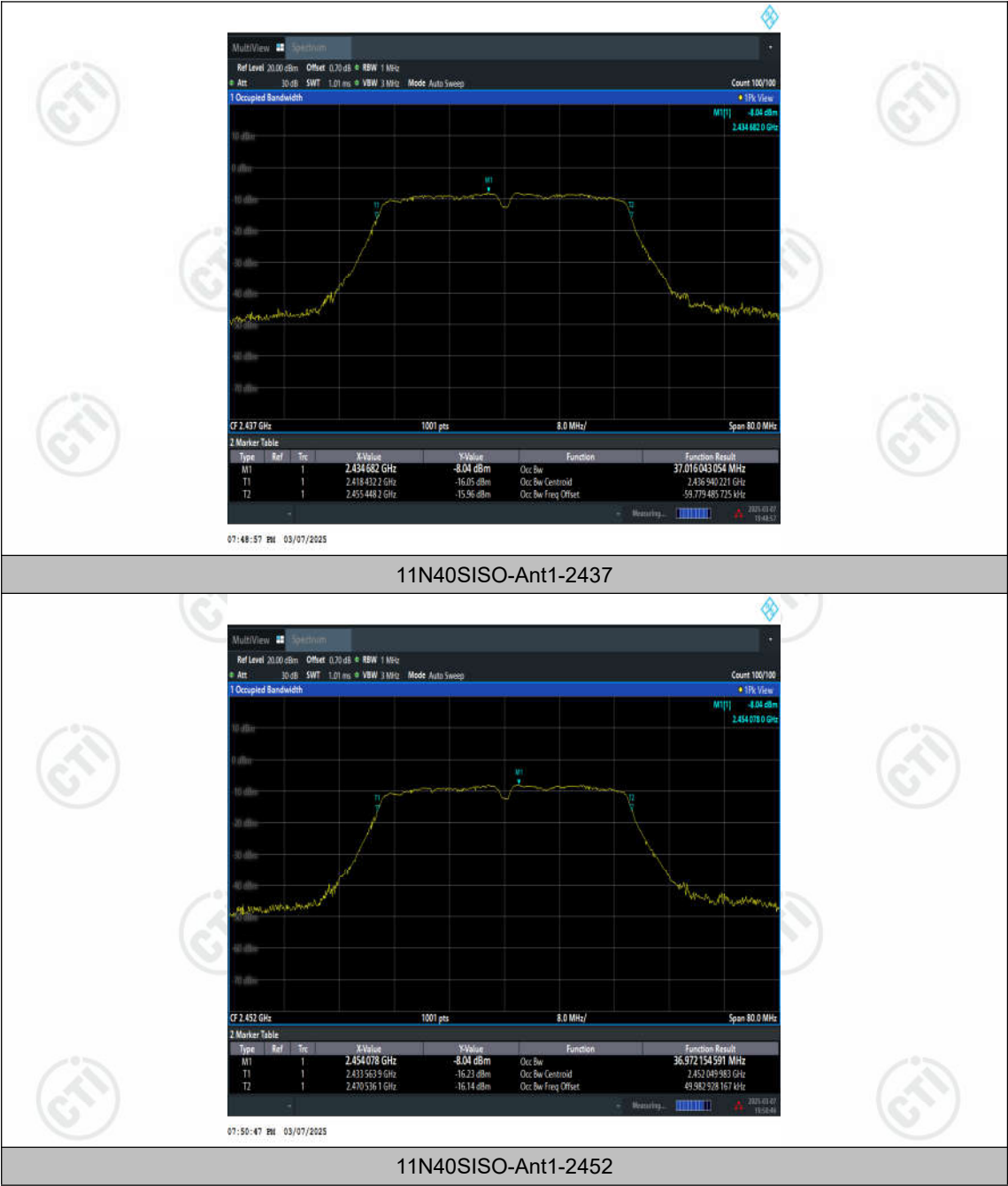
11G-Ant1-2437



11G-Ant1-2462







Appendix C: Maximum conducted output power

Test Result Peak

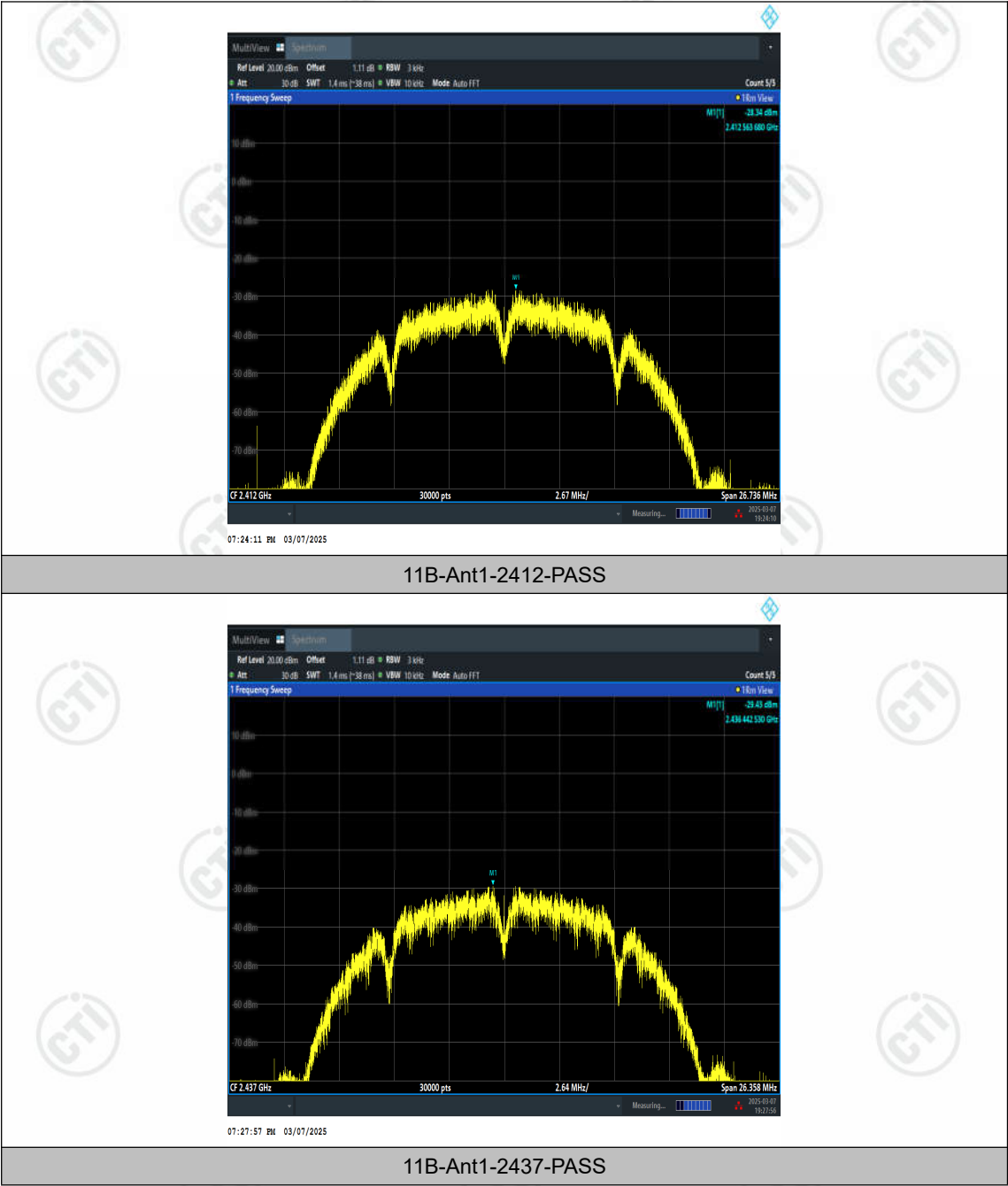
TestMode	Antenna	Frequency [MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	0	≤30.00	PASS
11B	Ant1	2437	---	-0.31	≤30.00	PASS
11B	Ant1	2462	---	-0.03	≤30.00	PASS
11G	Ant1	2412	---	-0.72	≤30.00	PASS
11G	Ant1	2437	---	-0.54	≤30.00	PASS
11G	Ant1	2462	---	-0.56	≤30.00	PASS
11N20SISO	Ant1	2412	---	-1.58	≤30.00	PASS
11N20SISO	Ant1	2437	---	-1.68	≤30.00	PASS
11N20SISO	Ant1	2462	---	-1.64	≤30.00	PASS
11N40SISO	Ant1	2422	---	-1.76	≤30.00	PASS
11N40SISO	Ant1	2437	---	-1.81	≤30.00	PASS
11N40SISO	Ant1	2452	---	-1.73	≤30.00	PASS

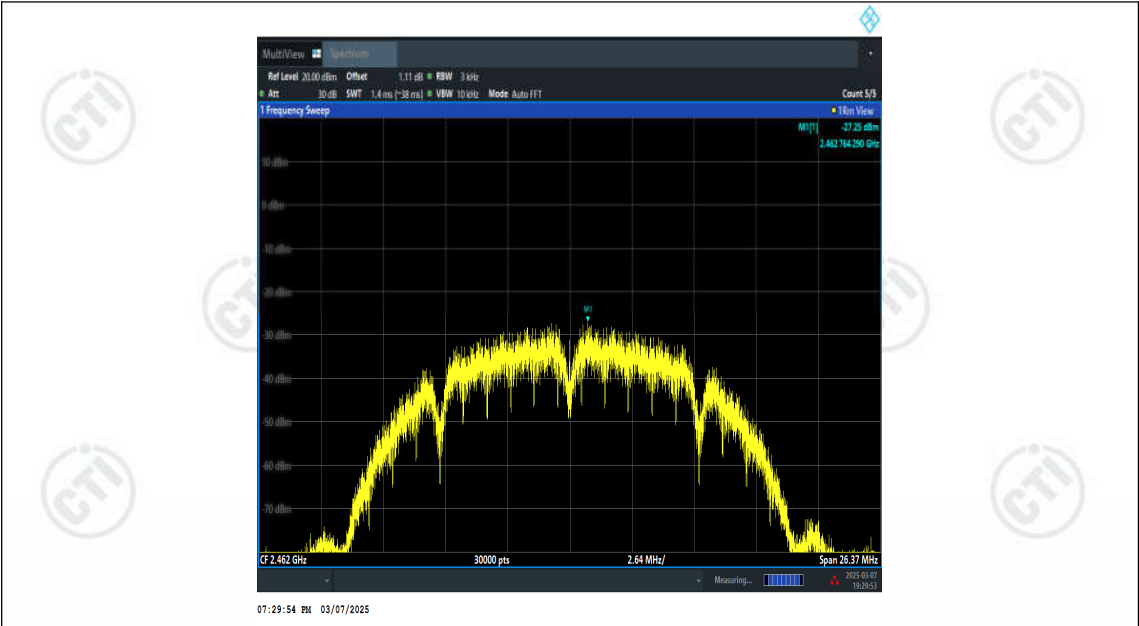
Appendix D: Maximum power spectral density

Test Result

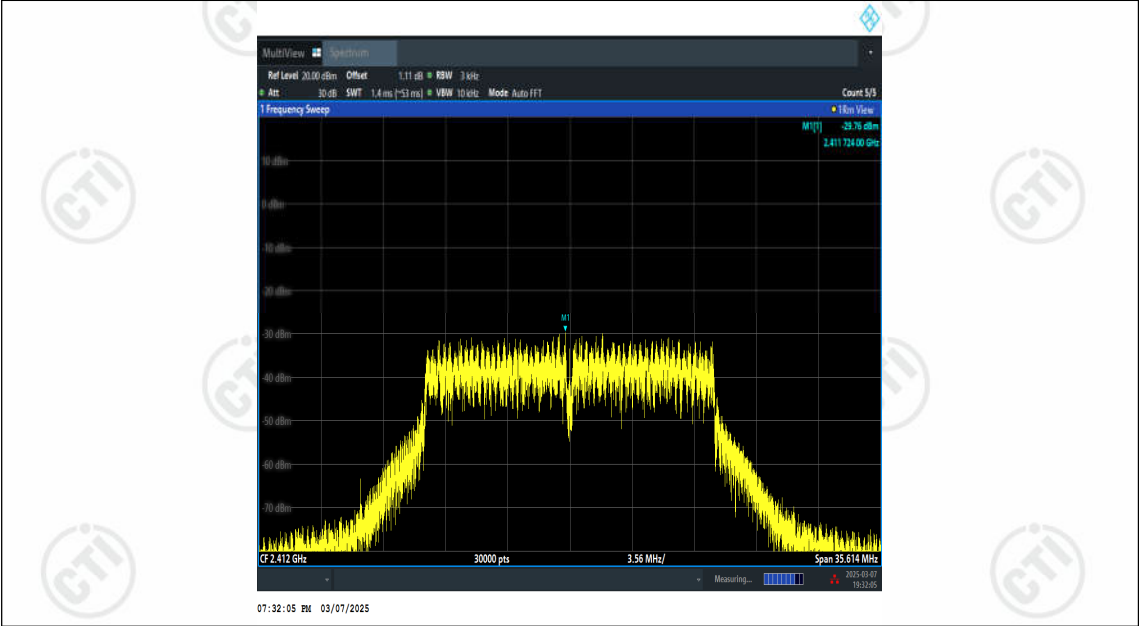
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-28.34	≤8.00	PASS
11B	Ant1	2437	-29.43	≤8.00	PASS
11B	Ant1	2462	-27.25	≤8.00	PASS
11G	Ant1	2412	-29.76	≤8.00	PASS
11G	Ant1	2437	-30.10	≤8.00	PASS
11G	Ant1	2462	-29.90	≤8.00	PASS
11N20SISO	Ant1	2412	-30.56	≤8.00	PASS
11N20SISO	Ant1	2437	-30.96	≤8.00	PASS
11N20SISO	Ant1	2462	-30.27	≤8.00	PASS
11N40SISO	Ant1	2422	-33.08	≤8.00	PASS
11N40SISO	Ant1	2437	-34.22	≤8.00	PASS
11N40SISO	Ant1	2452	-34.06	≤8.00	PASS

Test Graphs

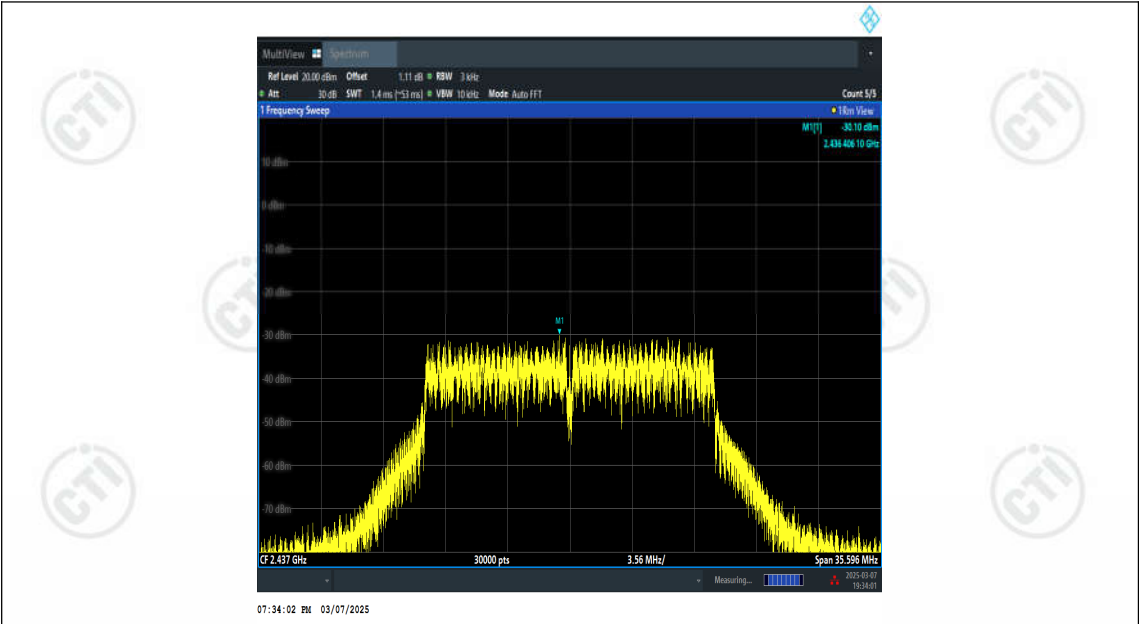




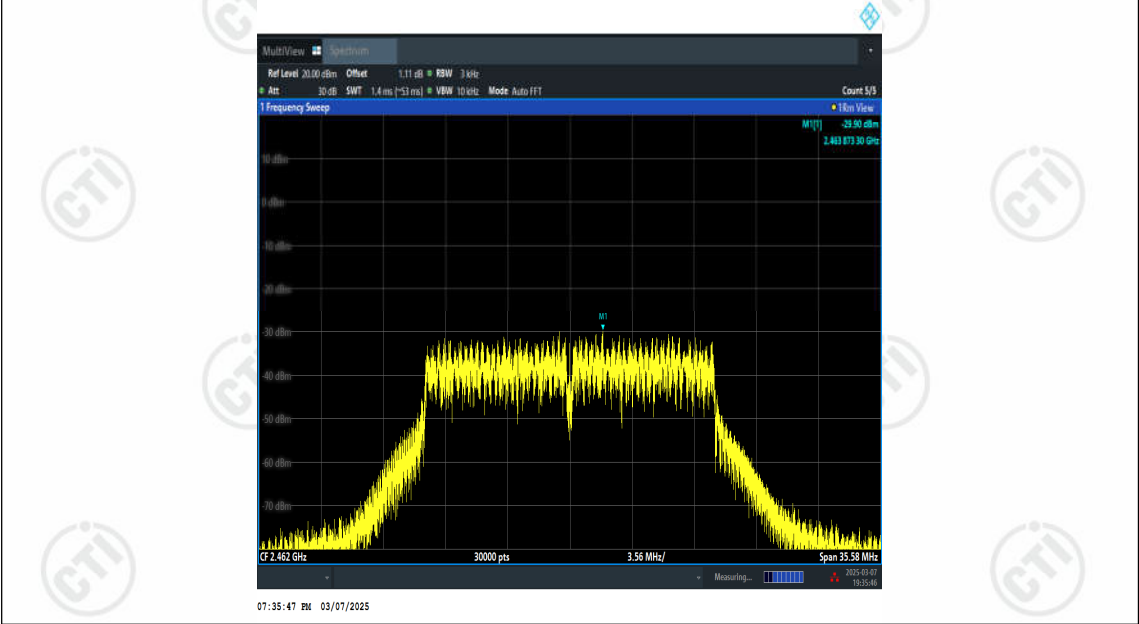
11B-Ant1-2462-PASS



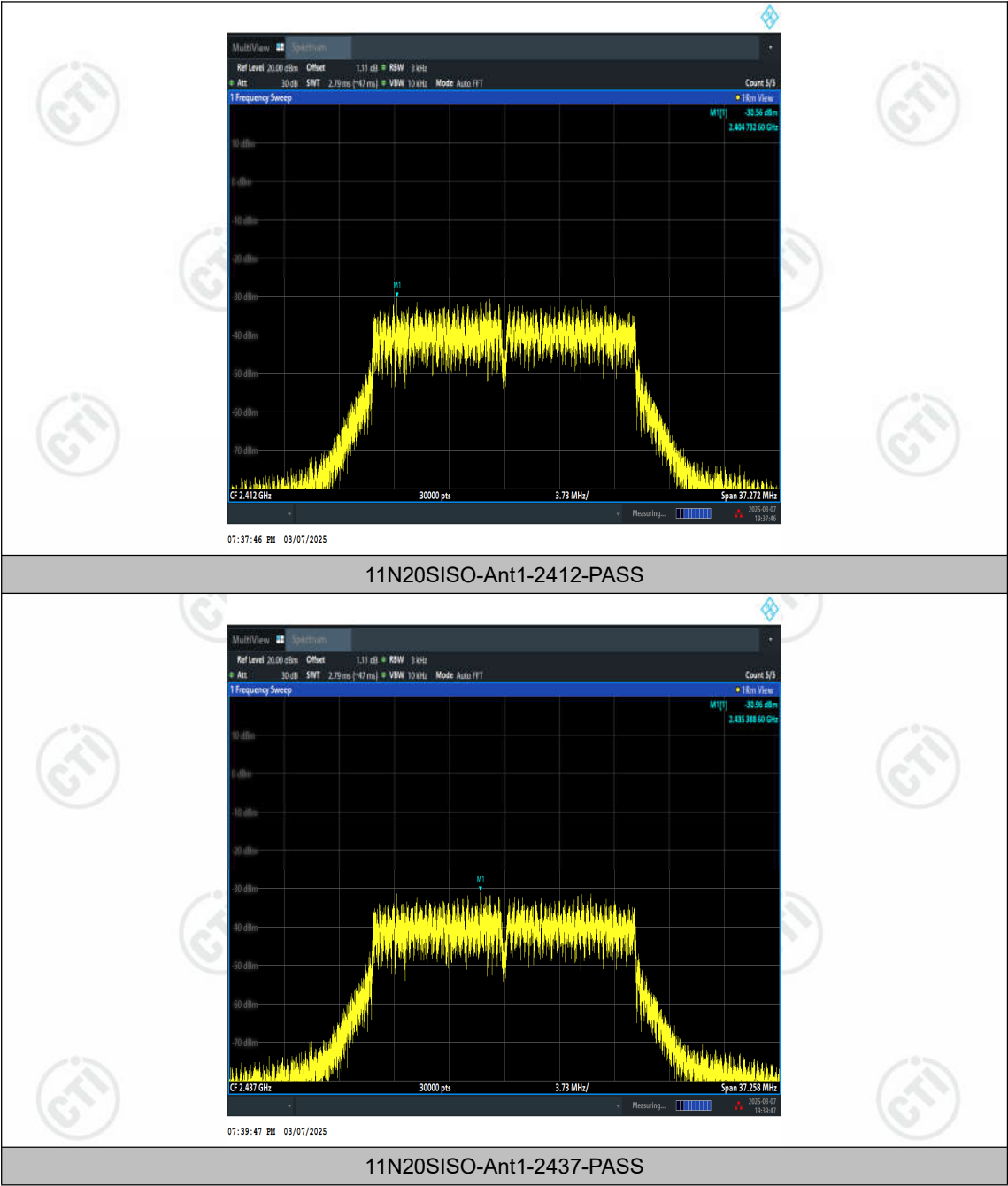
11G-Ant1-2412-PASS

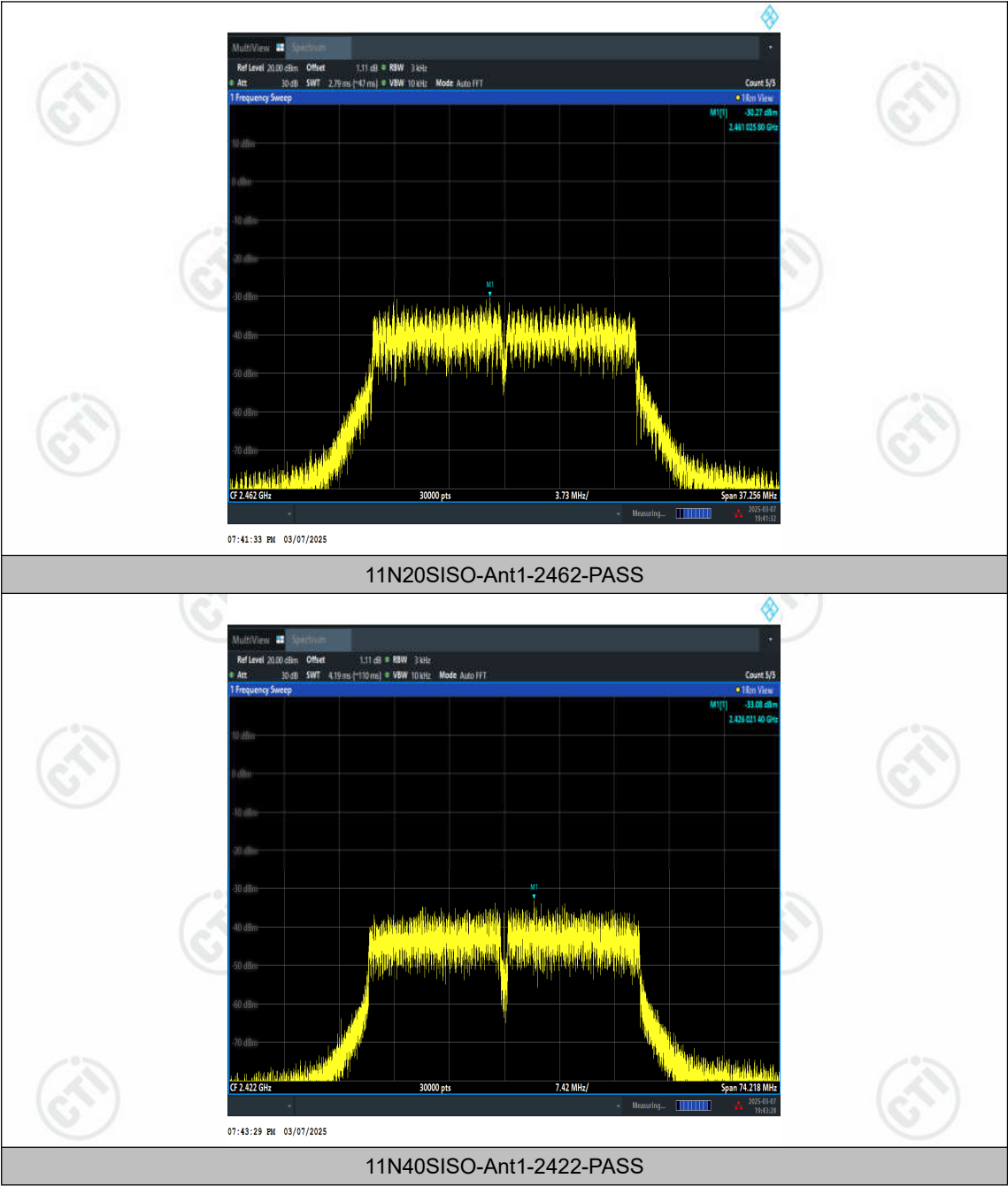


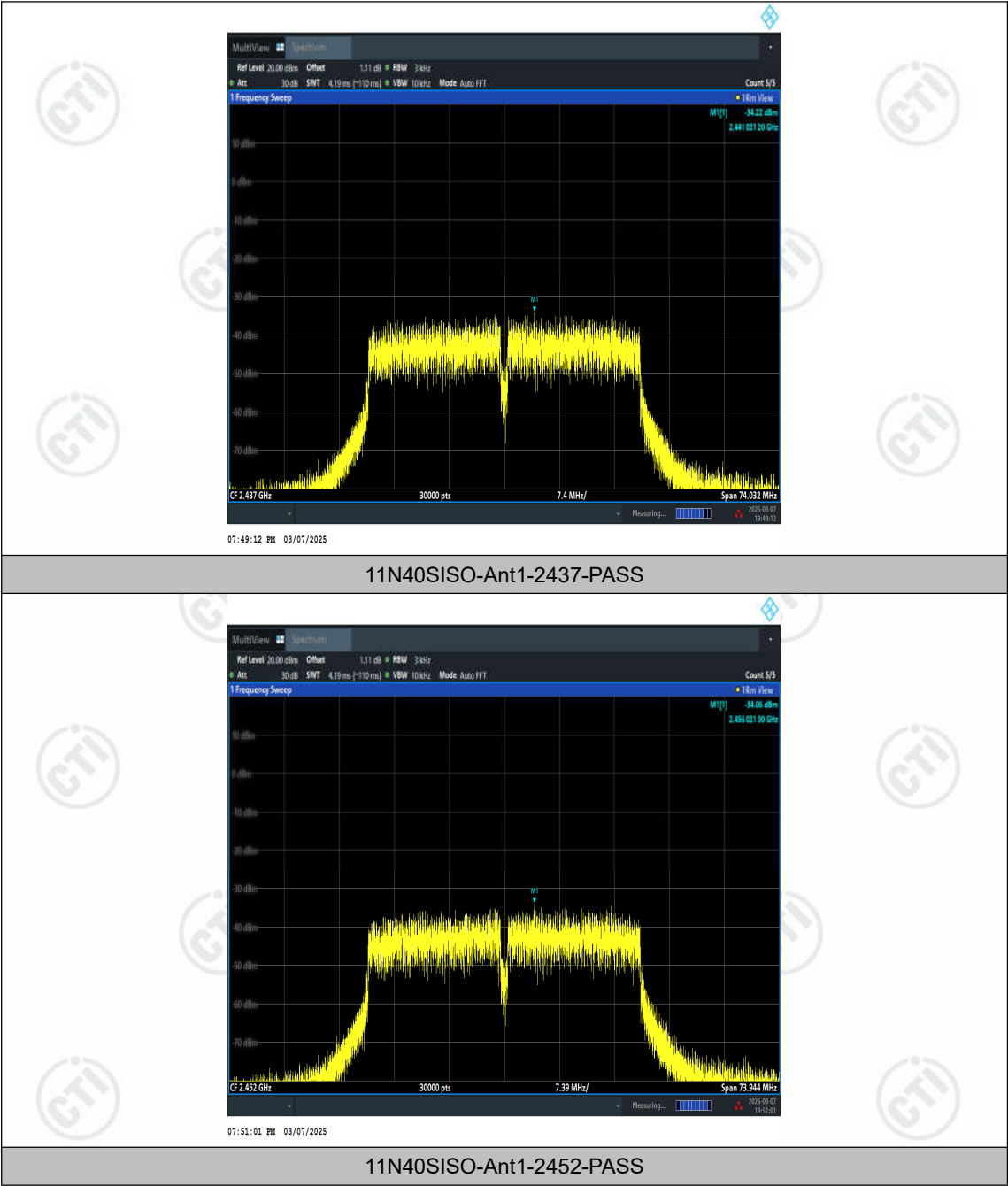
11G-Ant1-2437-PASS



11G-Ant1-2462-PASS







Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-9.43	-54.99	≤-39.43	PASS
11B	Ant1	High	2462	-9.52	-58.47	≤-39.52	PASS
11G	Ant1	Low	2412	-12.10	-49.13	≤-42.1	PASS
11G	Ant1	High	2462	-12.18	-58.52	≤-42.18	PASS
11N20SISO	Ant1	Low	2412	-13.02	-49.24	≤-43.02	PASS
11N20SISO	Ant1	High	2462	-13.16	-56.67	≤-43.16	PASS
11N40SISO	Ant1	Low	2422	-16.14	-46.21	≤-46.14	PASS
11N40SISO	Ant1	High	2452	-15.76	-52.66	≤-45.76	PASS

Test Graphs



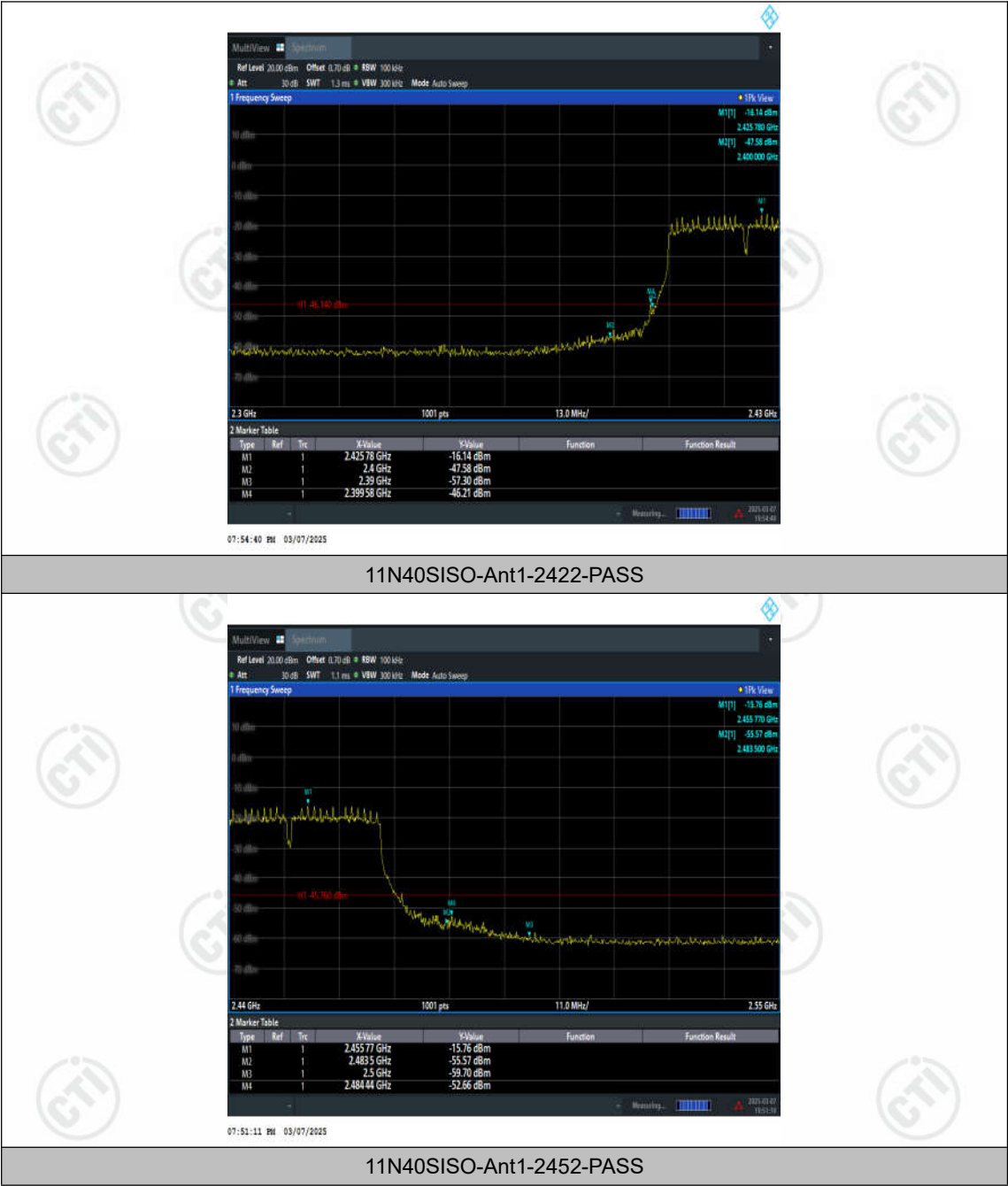


11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



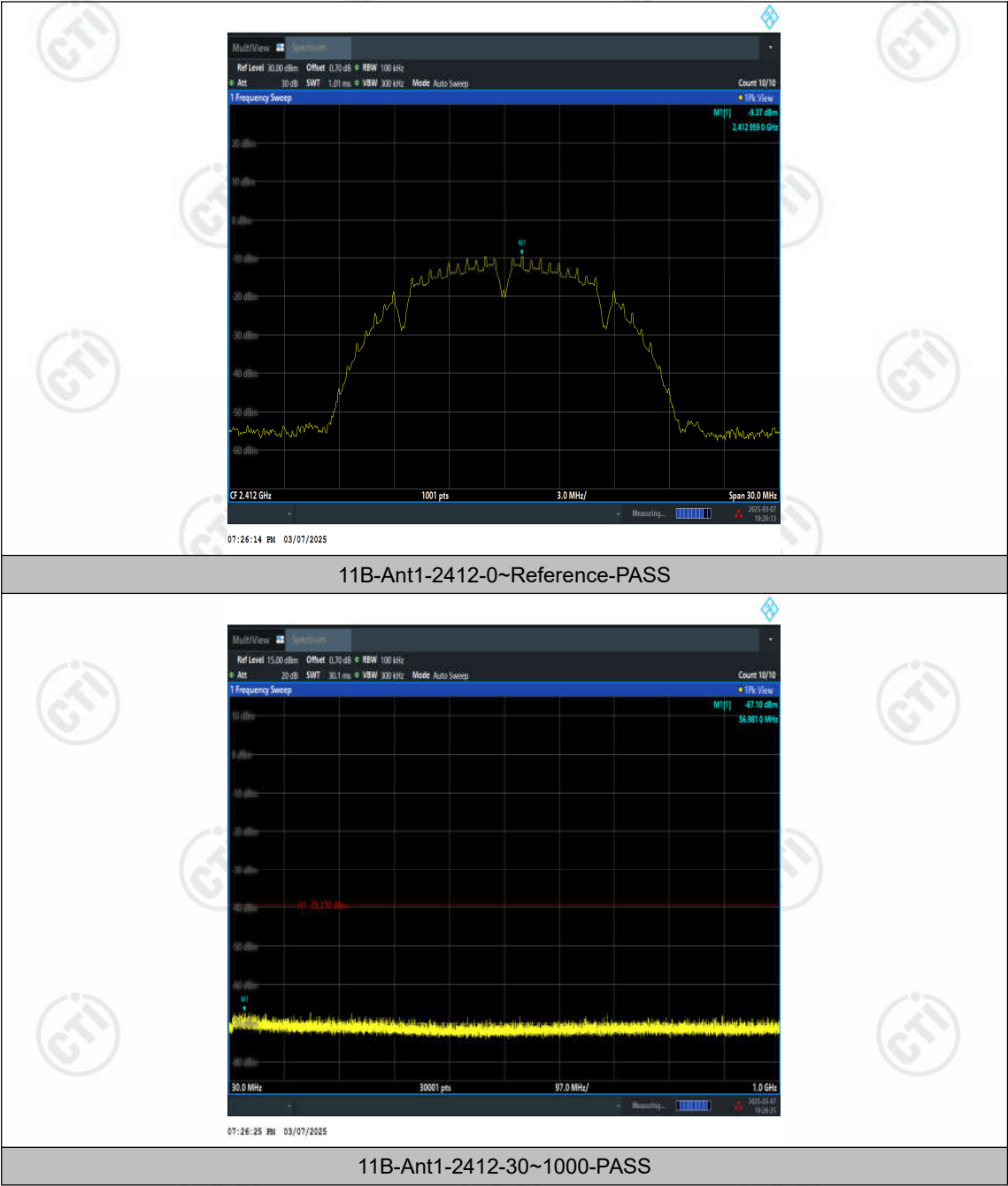


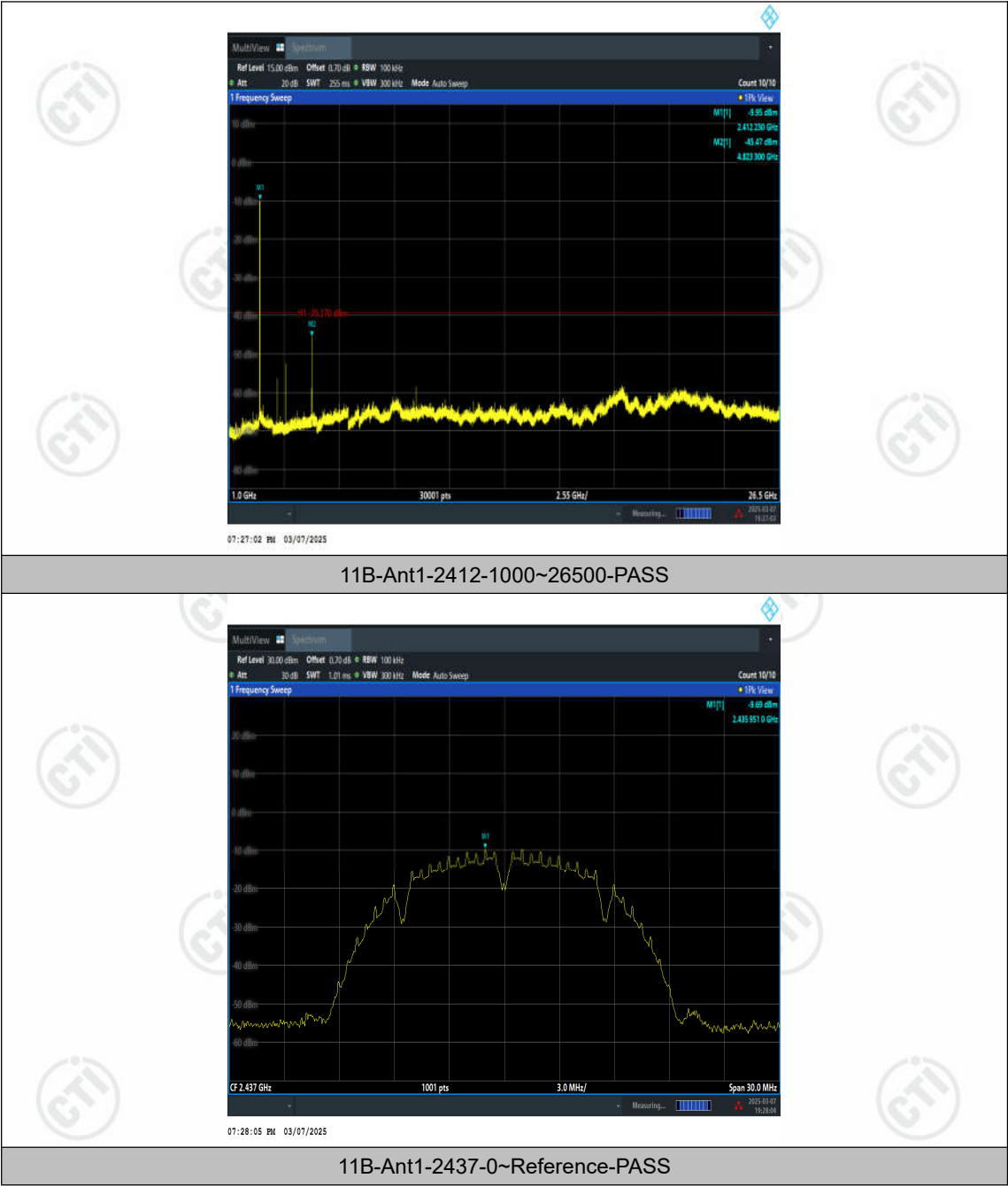
Appendix F: Conducted Spurious Emission

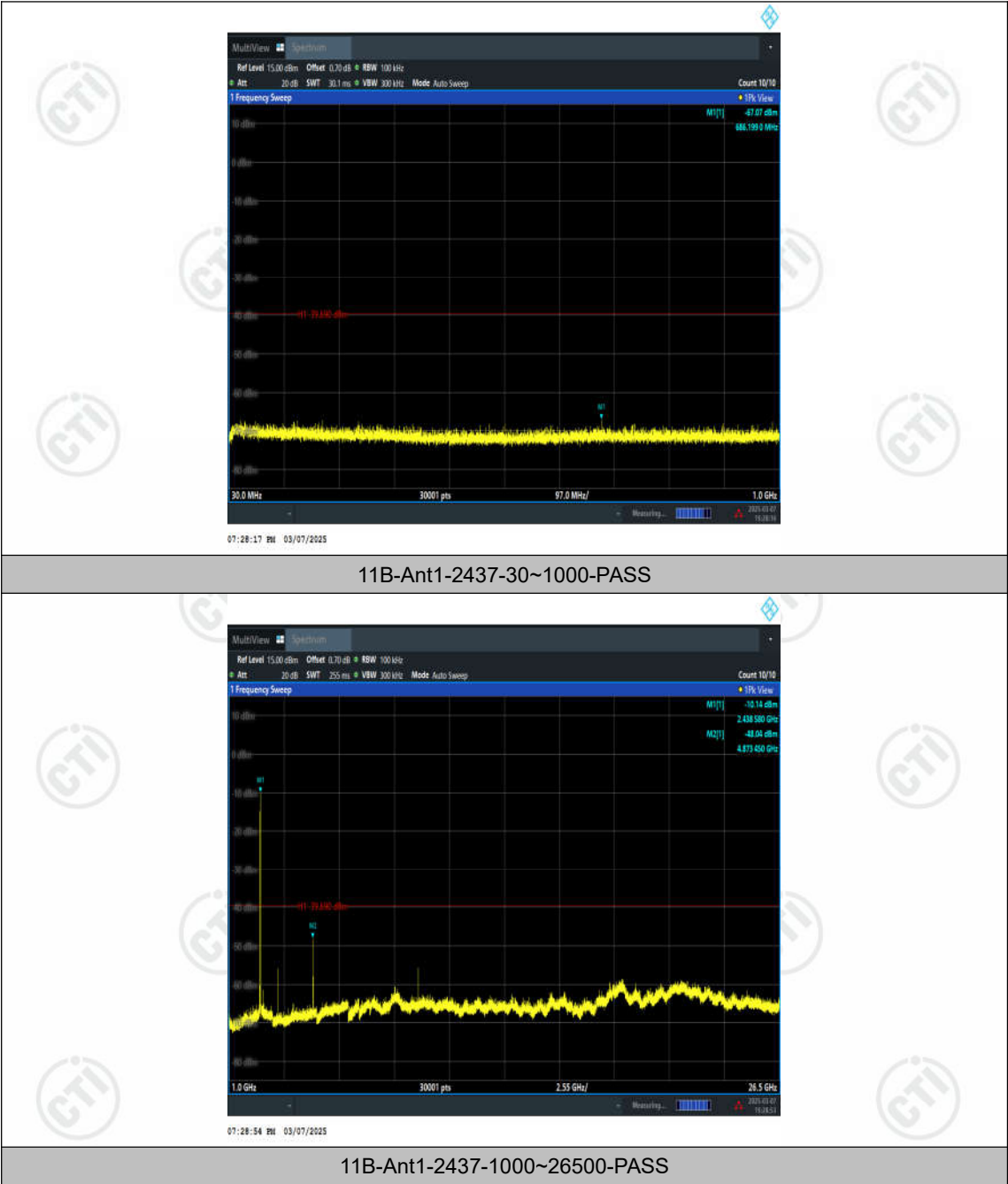
Test Result

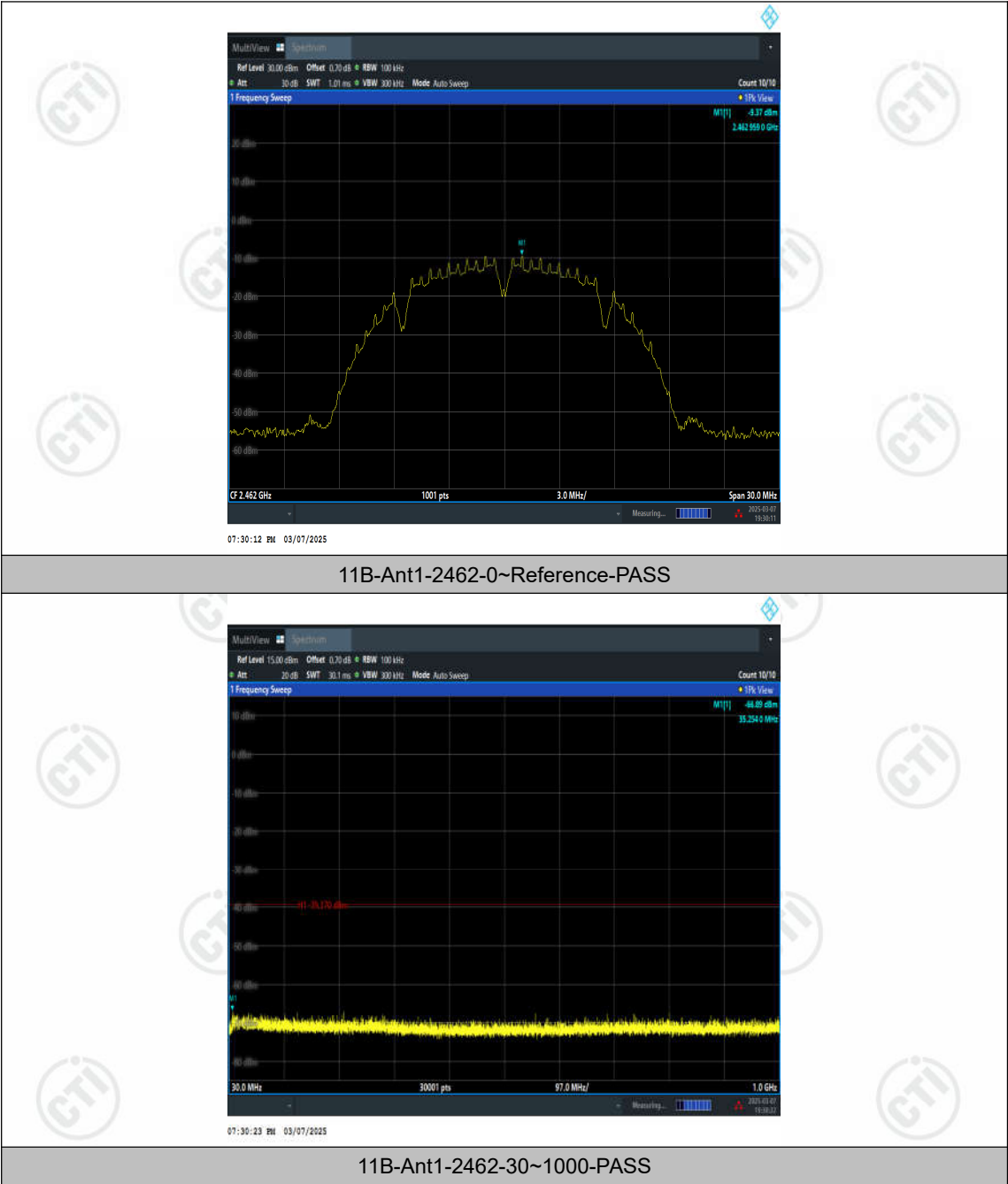
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-9.37	-9.37	---	PASS
11B	Ant1	2412	30~1000	-9.37	-67.1	≤-39.37	PASS
11B	Ant1	2412	1000~26500	-9.37	-45.47	≤-39.37	PASS
11B	Ant1	2437	0~Reference	-9.69	-9.69	---	PASS
11B	Ant1	2437	30~1000	-9.69	-67.07	≤-39.69	PASS
11B	Ant1	2437	1000~26500	-9.69	-48.04	≤-39.69	PASS
11B	Ant1	2462	0~Reference	-9.37	-9.37	---	PASS
11B	Ant1	2462	30~1000	-9.37	-66.89	≤-39.37	PASS
11B	Ant1	2462	1000~26500	-9.37	-50.39	≤-39.37	PASS
11G	Ant1	2412	0~Reference	-12.12	-12.12	---	PASS
11G	Ant1	2412	30~1000	-12.12	-67.08	≤-42.12	PASS
11G	Ant1	2412	1000~26500	-12.12	-54.13	≤-42.12	PASS
11G	Ant1	2437	0~Reference	-12.09	-12.09	---	PASS
11G	Ant1	2437	30~1000	-12.09	-66.56	≤-42.09	PASS
11G	Ant1	2437	1000~26500	-12.09	-55.39	≤-42.09	PASS
11G	Ant1	2462	0~Reference	-12.15	-12.15	---	PASS
11G	Ant1	2462	30~1000	-12.15	-65.88	≤-42.15	PASS
11G	Ant1	2462	1000~26500	-12.15	-53.93	≤-42.15	PASS
11N20SISO	Ant1	2412	0~Reference	-13.06	-13.06	---	PASS
11N20SISO	Ant1	2412	30~1000	-13.06	-66.93	≤-43.06	PASS
11N20SISO	Ant1	2412	1000~26500	-13.06	-55.95	≤-43.06	PASS
11N20SISO	Ant1	2437	0~Reference	-13.13	-13.13	---	PASS
11N20SISO	Ant1	2437	30~1000	-13.13	-66.71	≤-43.13	PASS
11N20SISO	Ant1	2437	1000~26500	-13.13	-55.77	≤-43.13	PASS
11N20SISO	Ant1	2462	0~Reference	-13.10	-13.10	---	PASS
11N20SISO	Ant1	2462	30~1000	-13.10	-66.41	≤-43.1	PASS
11N20SISO	Ant1	2462	1000~26500	-13.10	-53.97	≤-43.1	PASS
11N40SISO	Ant1	2422	0~Reference	-15.84	-15.84	---	PASS
11N40SISO	Ant1	2422	30~1000	-15.84	-67.37	≤-45.84	PASS
11N40SISO	Ant1	2422	1000~26500	-15.84	-56.3	≤-45.84	PASS
11N40SISO	Ant1	2437	0~Reference	-15.89	-15.89	---	PASS
11N40SISO	Ant1	2437	30~1000	-15.89	-66.65	≤-45.89	PASS
11N40SISO	Ant1	2437	1000~26500	-15.89	-55.79	≤-45.89	PASS
11N40SISO	Ant1	2452	0~Reference	-15.76	-15.76	---	PASS
11N40SISO	Ant1	2452	30~1000	-15.76	-66.62	≤-45.76	PASS
11N40SISO	Ant1	2452	1000~26500	-15.76	-53.54	≤-45.76	PASS

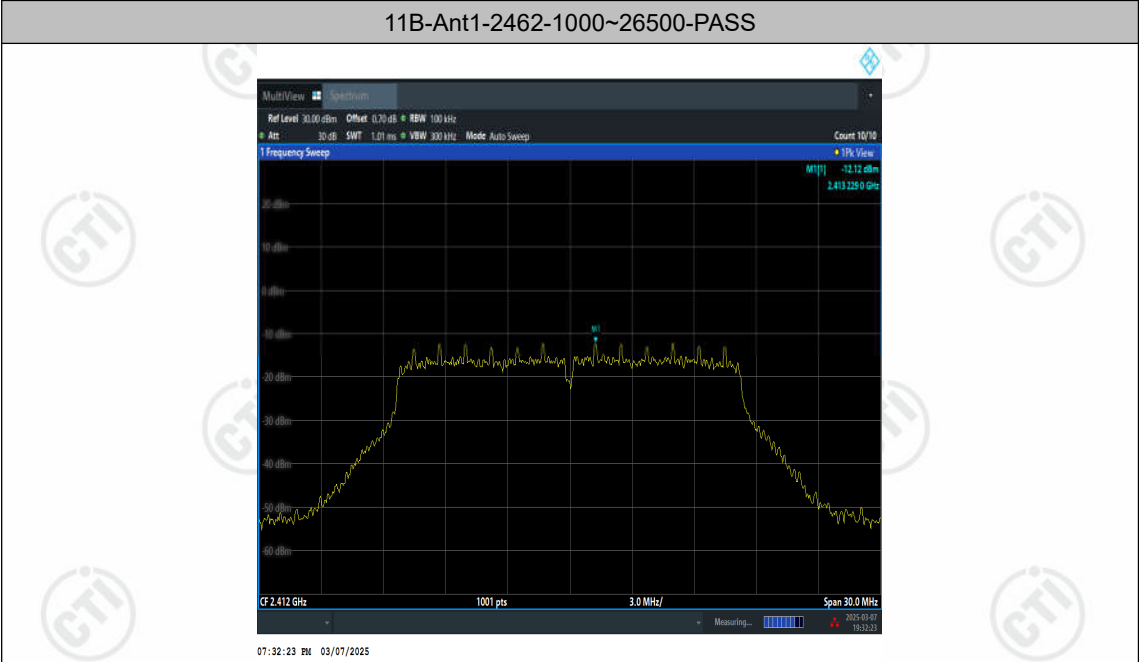
Test Graphs

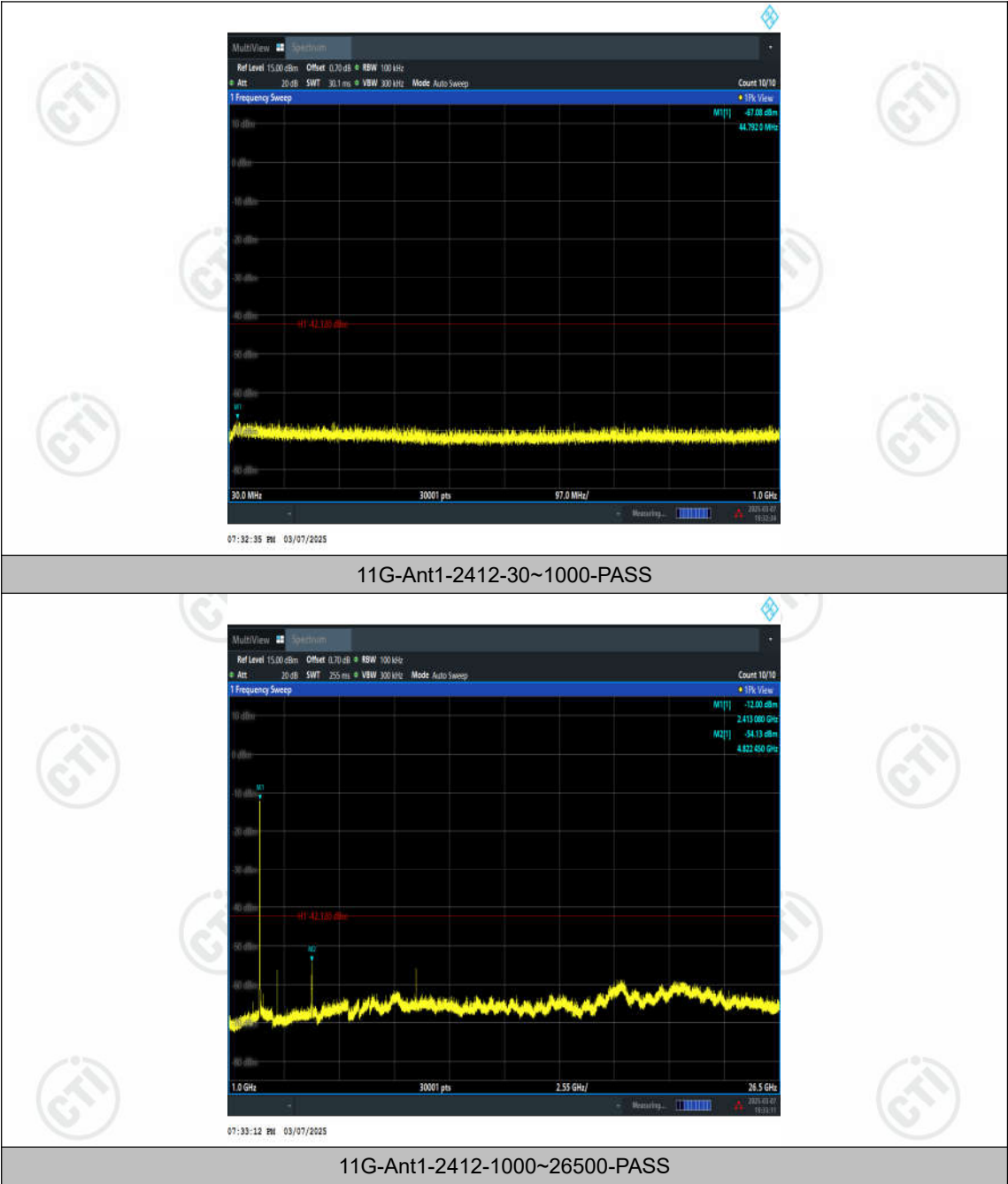


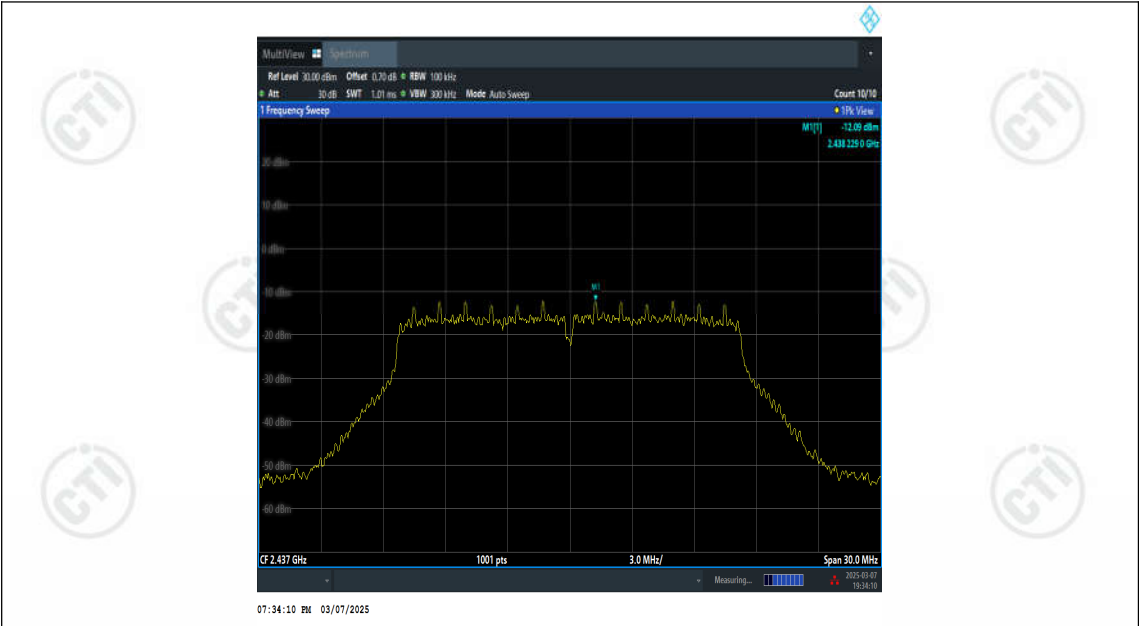




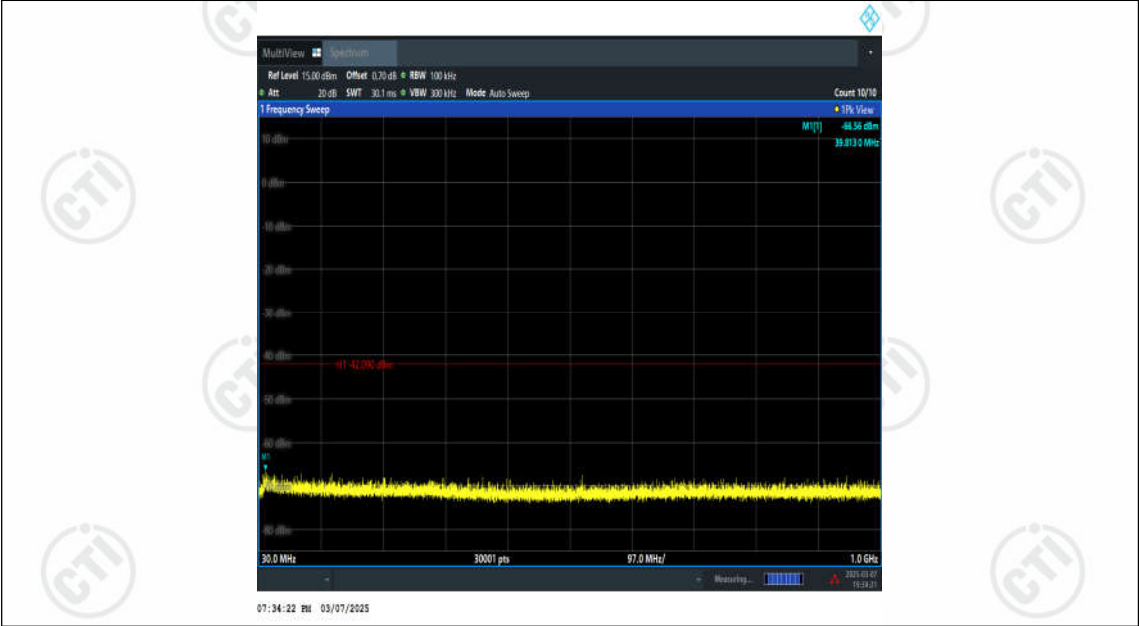




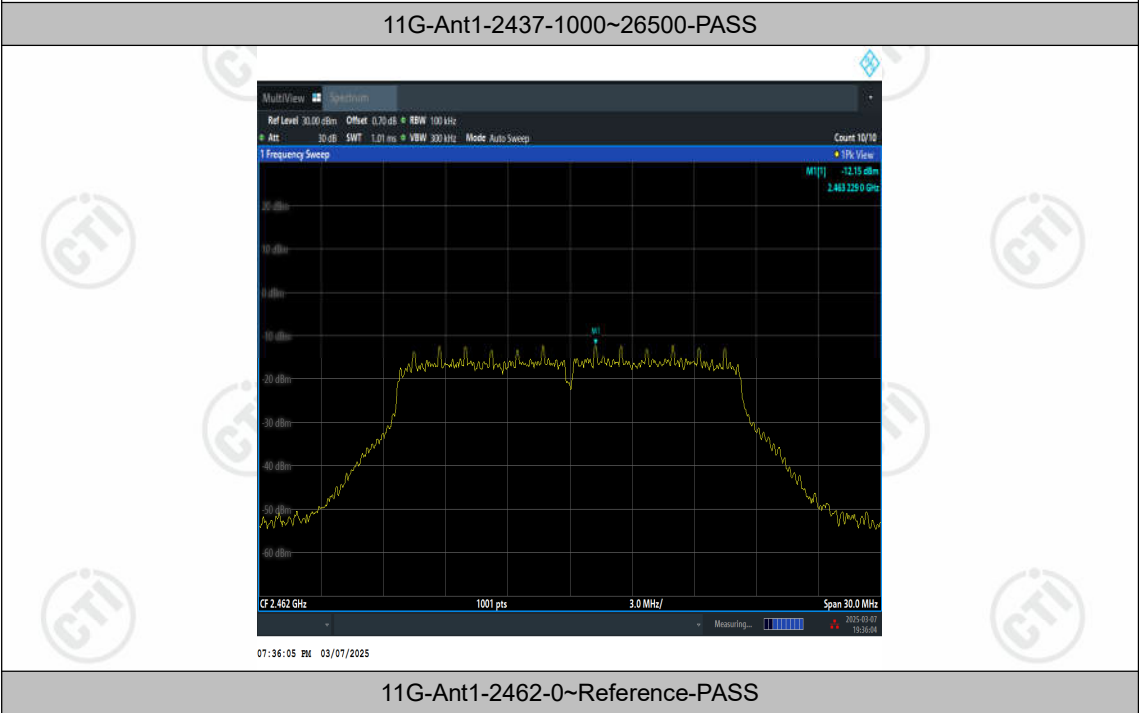
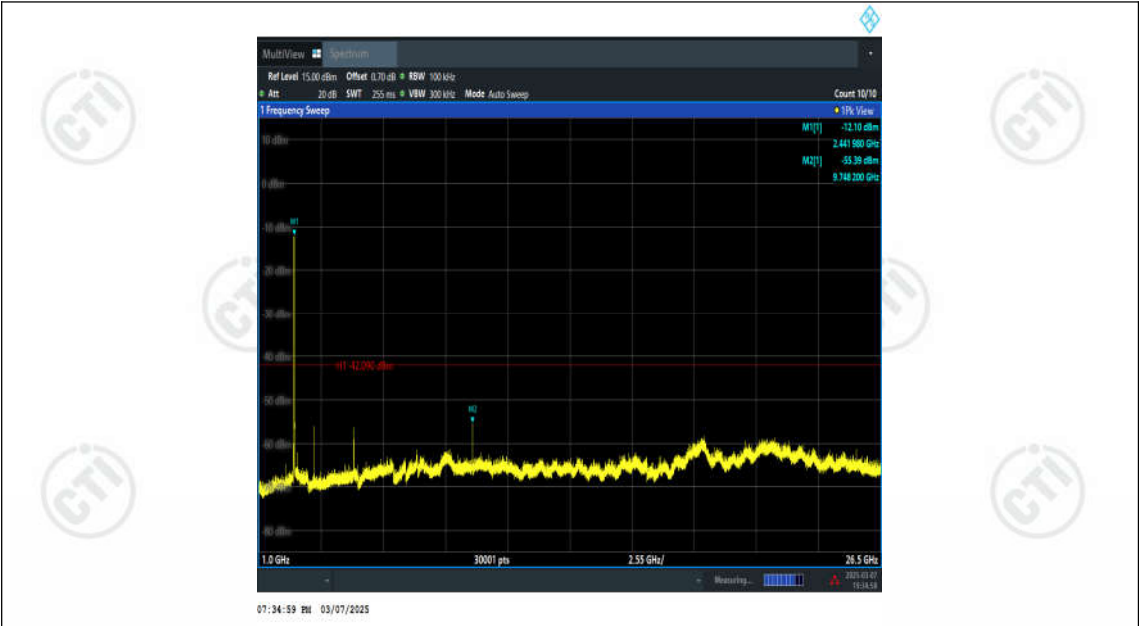


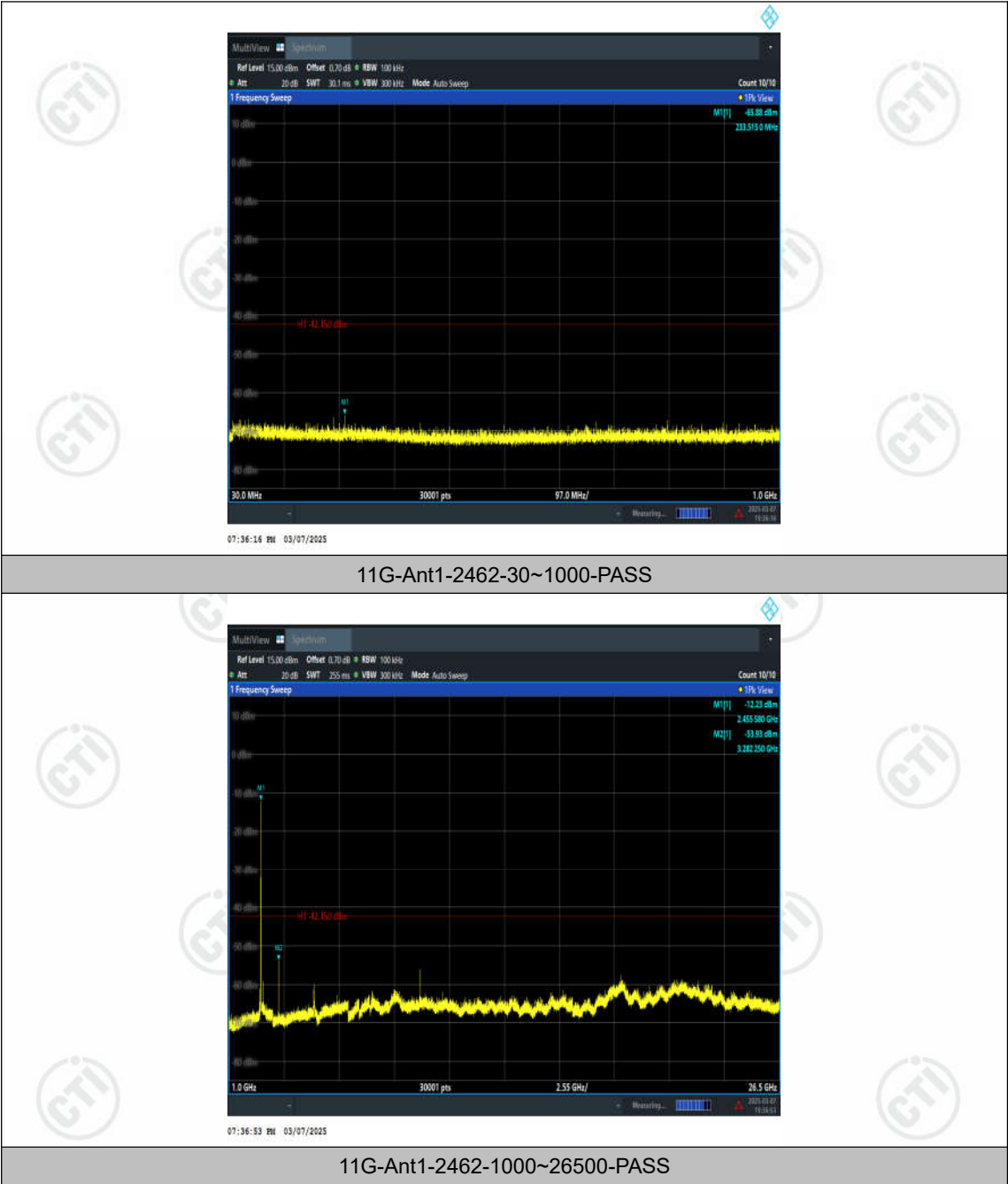


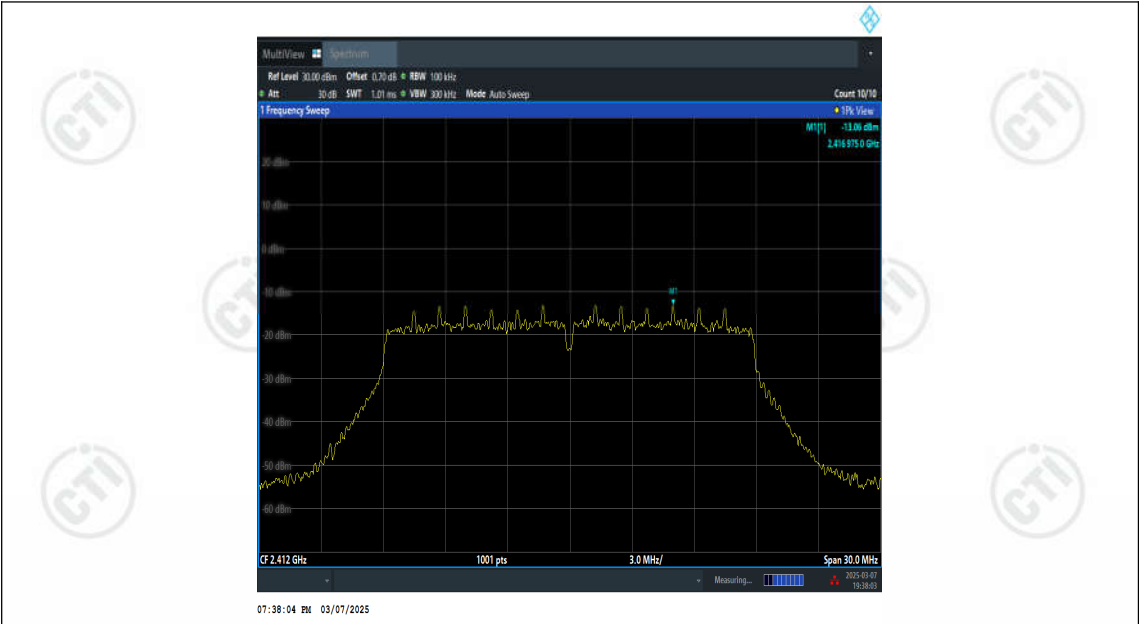
11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS



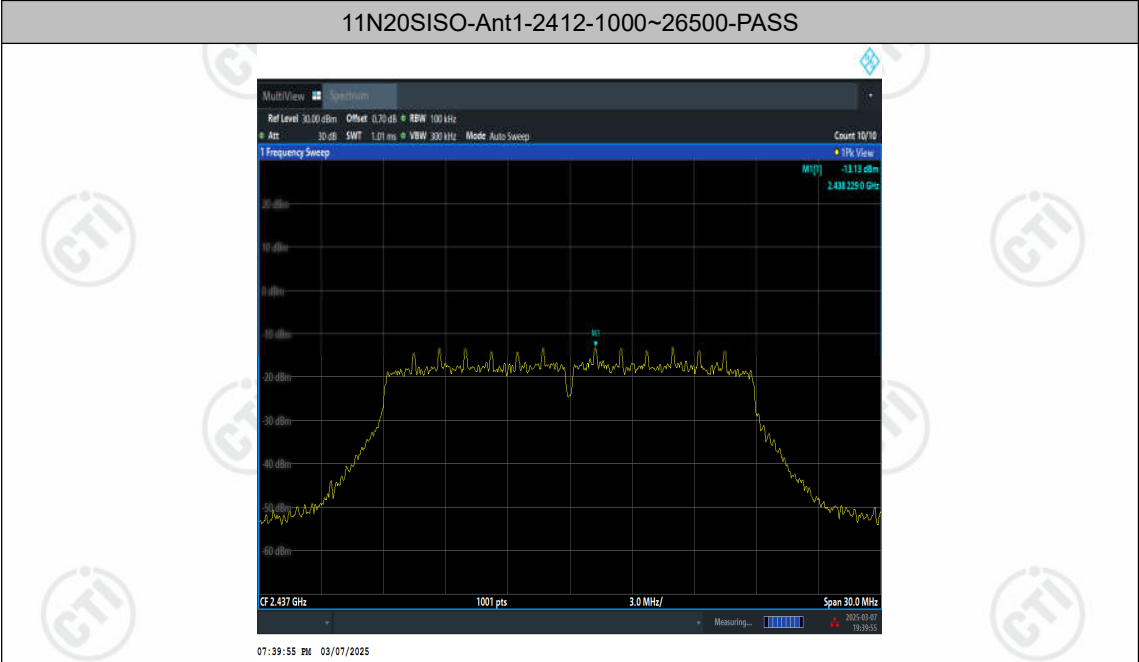


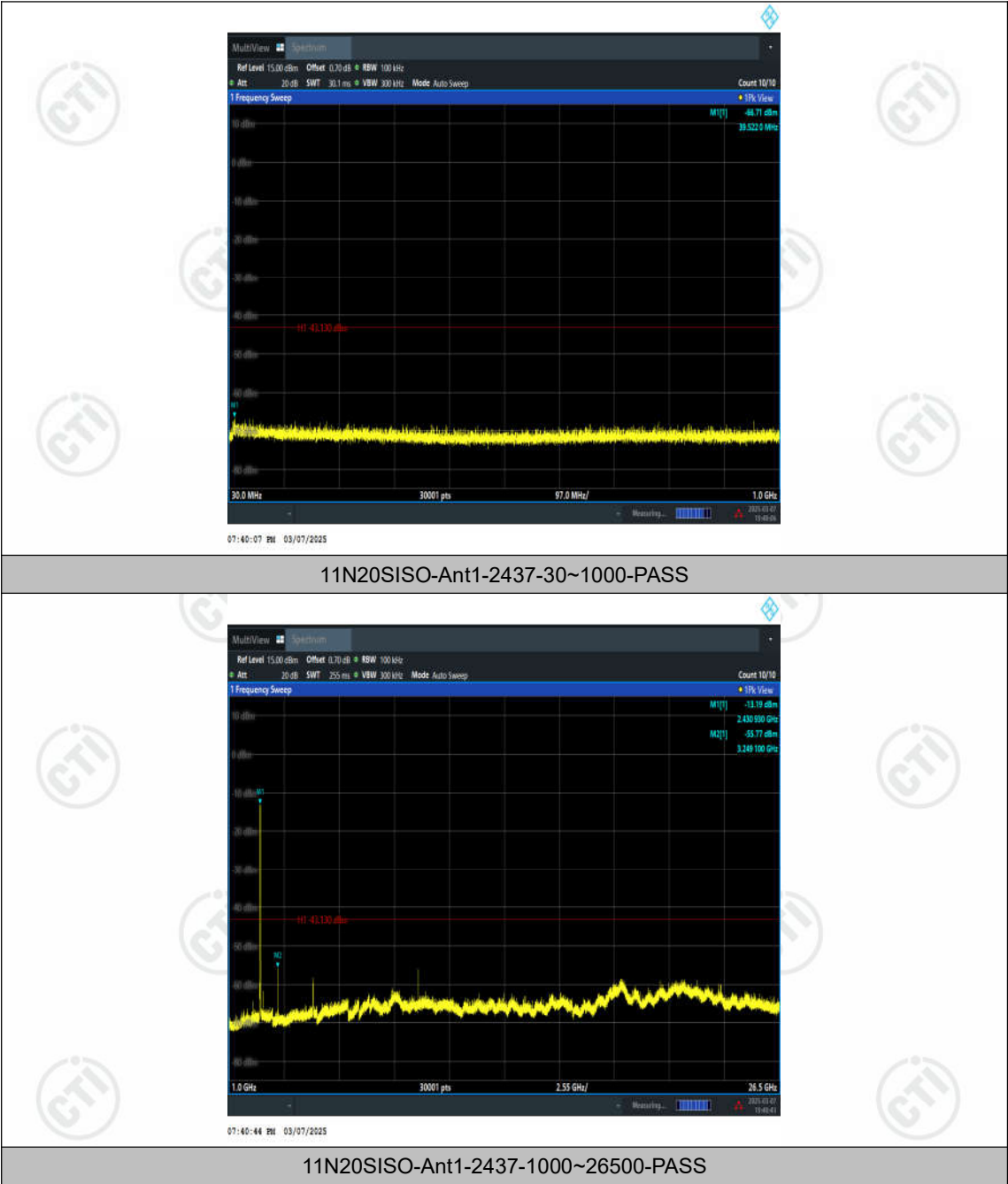


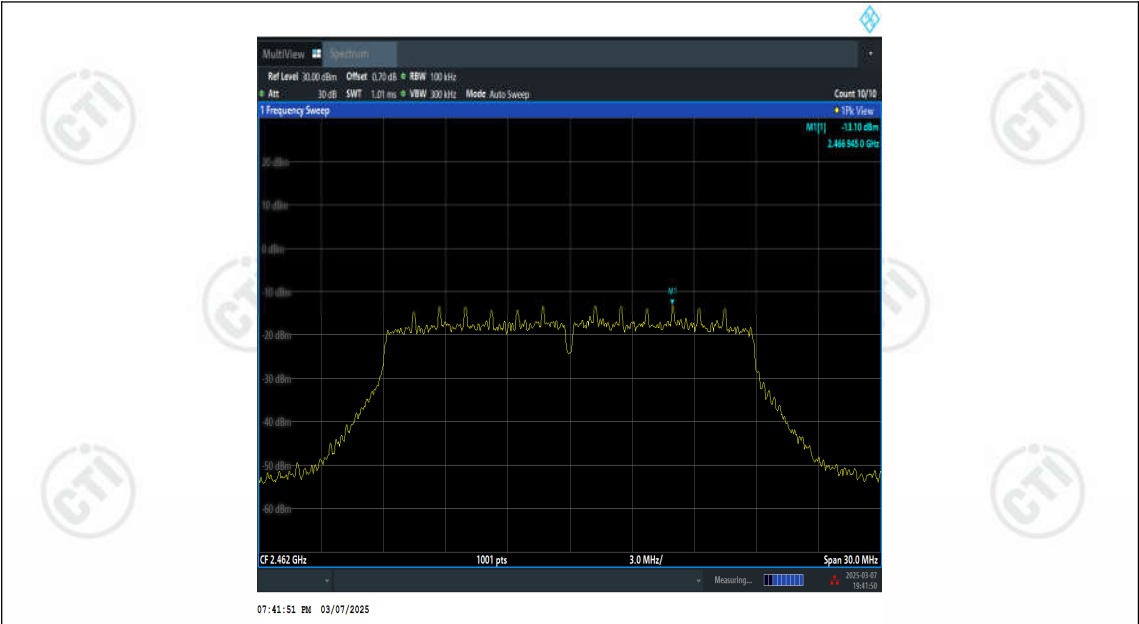
11N20SISO-Ant1-2412-0~Reference-PASS



11N20SISO-Ant1-2412-30~1000-PASS



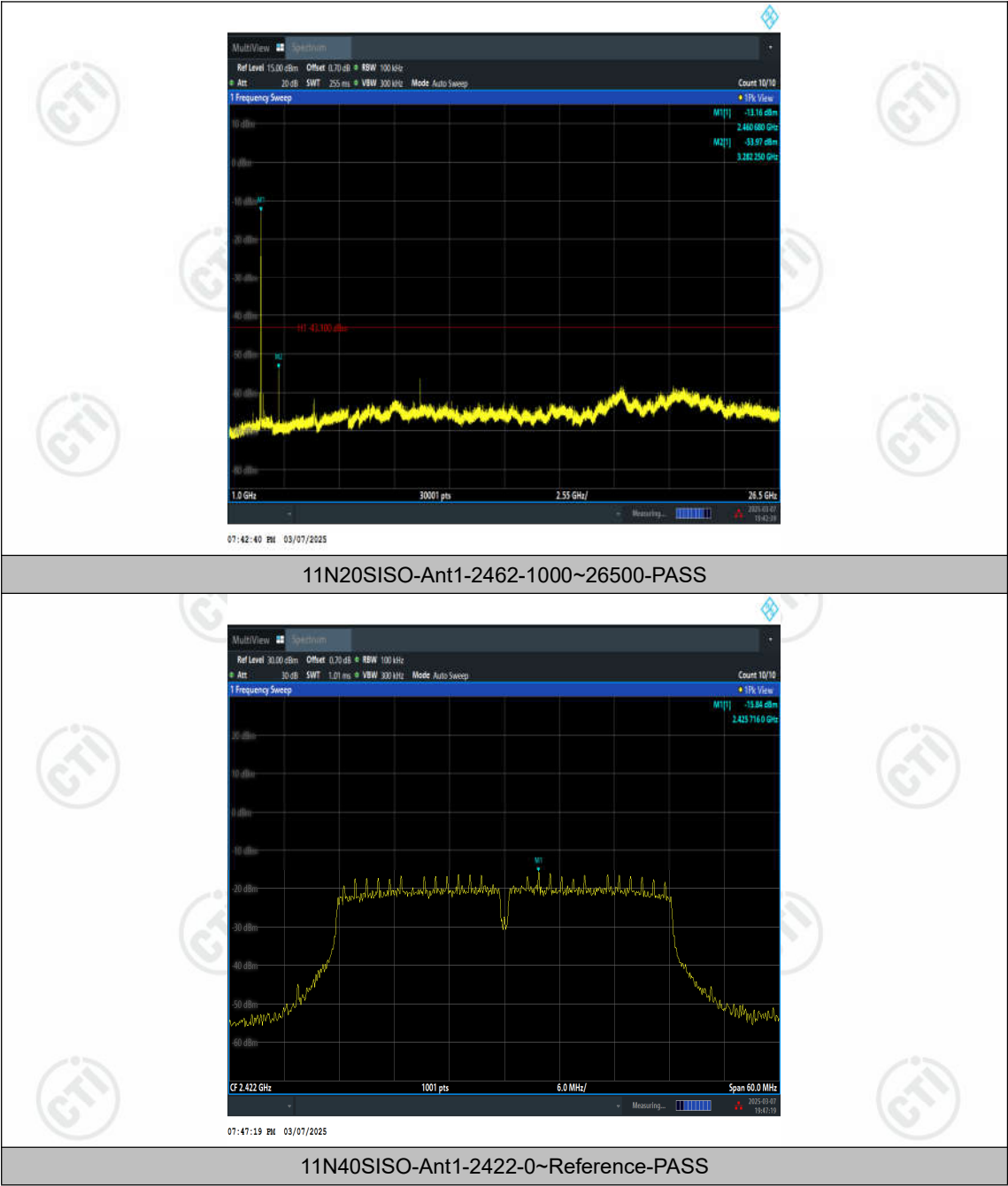


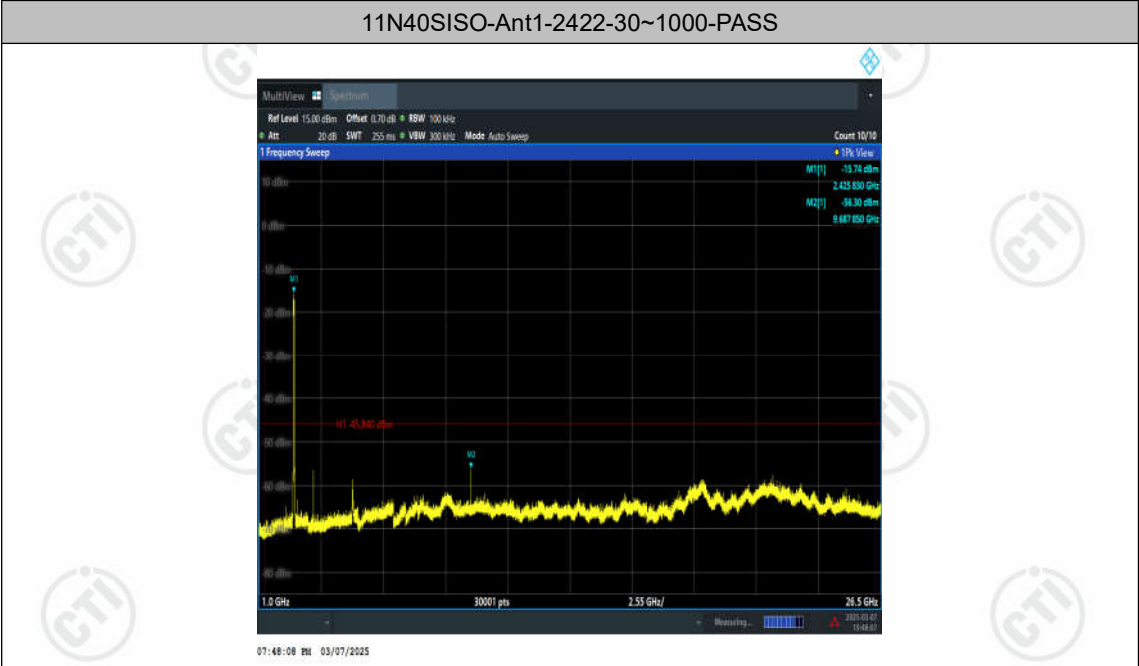


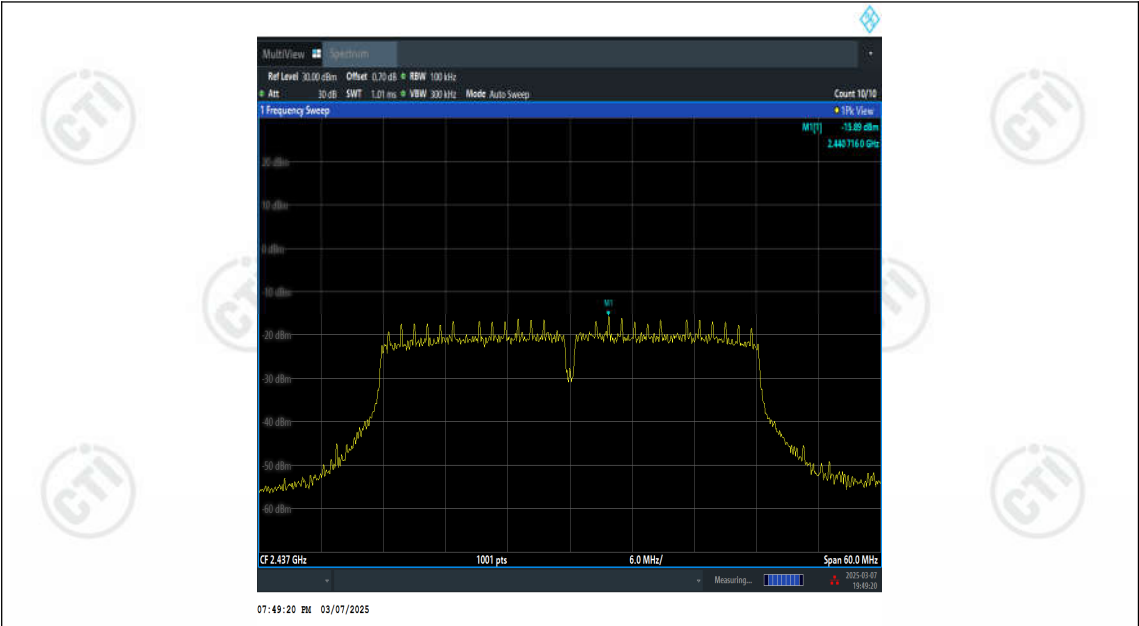
11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS



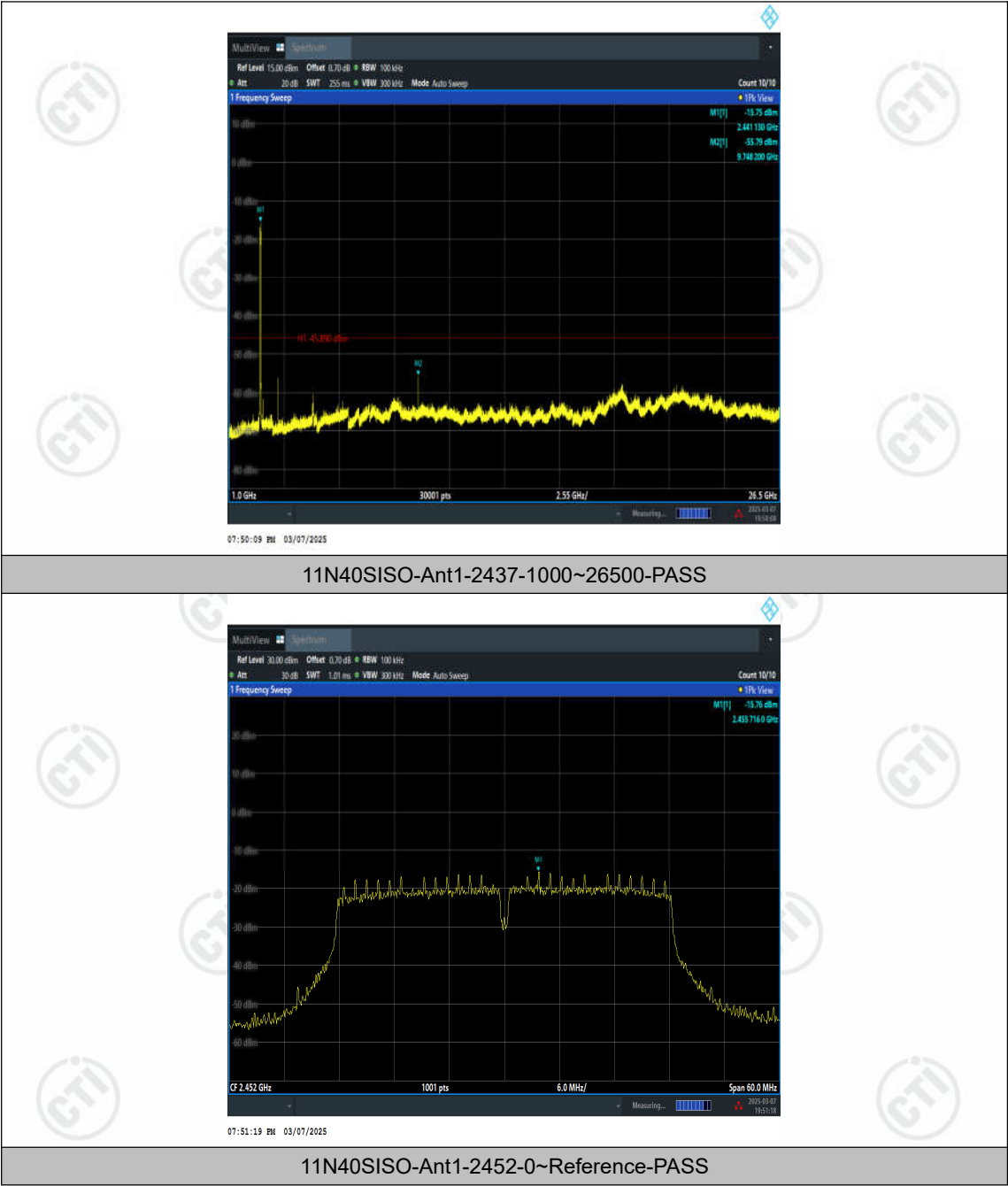


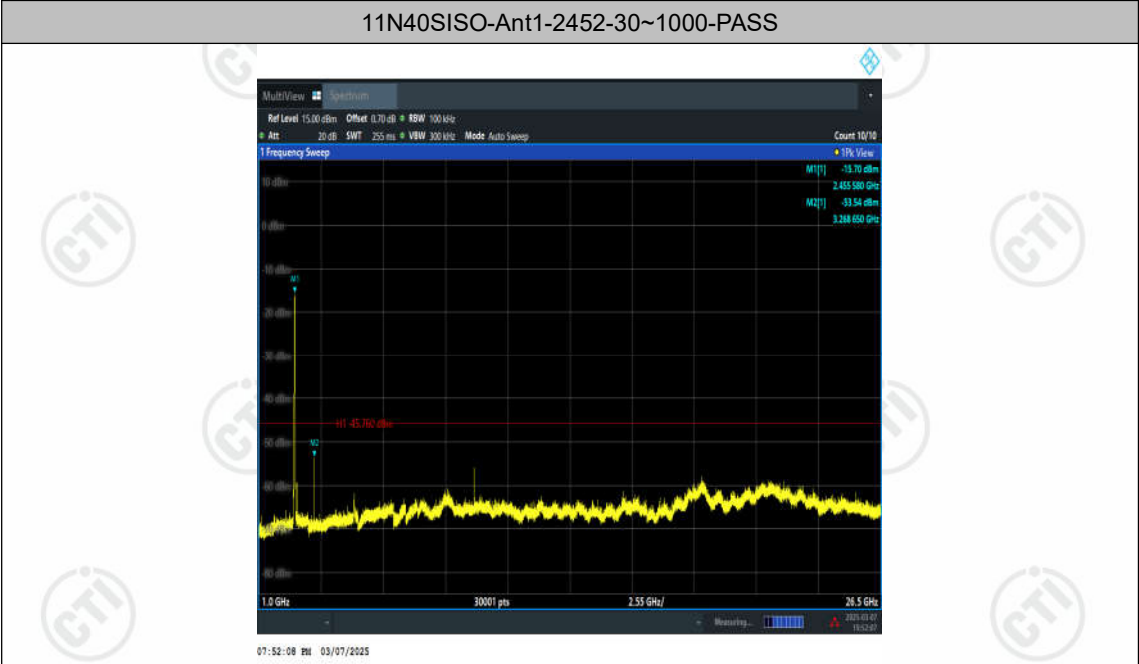


11N40SISO-Ant1-2437-0~Reference-PASS



11N40SISO-Ant1-2437-30~1000-PASS





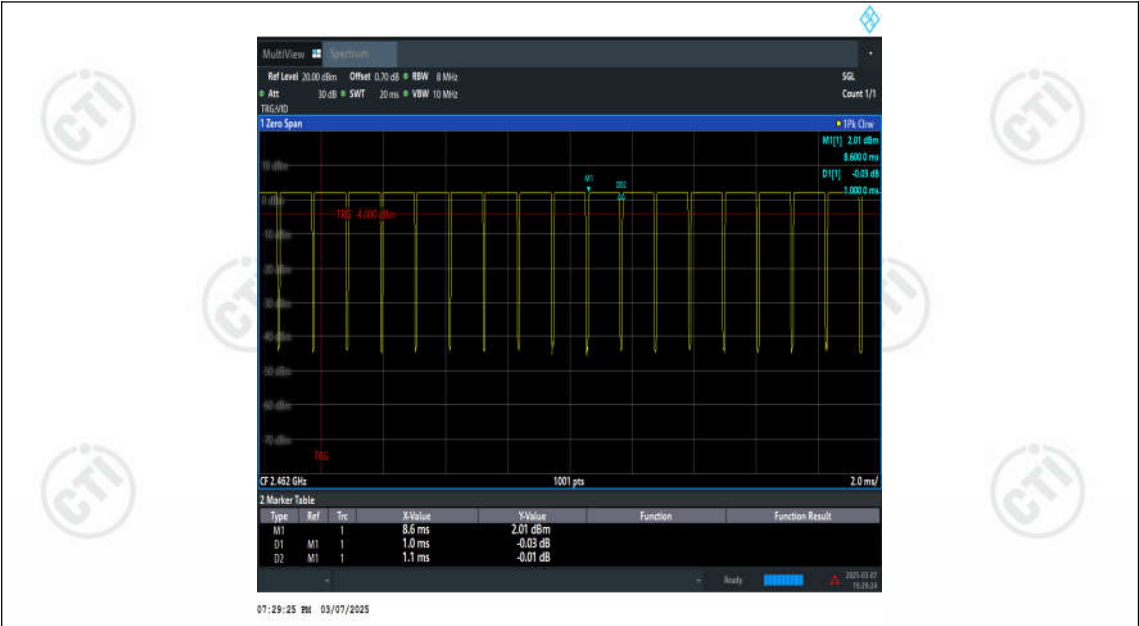
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	1.00	1.10	90.91	0.41
11B	Ant1	2437	1.00	1.10	90.91	0.41
11B	Ant1	2462	1.00	1.10	90.91	0.41
11G	Ant1	2412	0.60	0.66	90.91	0.41
11G	Ant1	2437	0.60	0.66	90.91	0.41
11G	Ant1	2462	0.60	0.66	90.91	0.41
11N20SISO	Ant1	2412	0.60	0.66	90.91	0.41
11N20SISO	Ant1	2437	0.60	0.66	90.91	0.41
11N20SISO	Ant1	2462	0.60	0.66	90.91	0.41
11N40SISO	Ant1	2422	0.60	0.66	90.91	0.41
11N40SISO	Ant1	2437	0.60	0.66	90.91	0.41
11N40SISO	Ant1	2452	0.60	0.66	90.91	0.41

Test Graphs

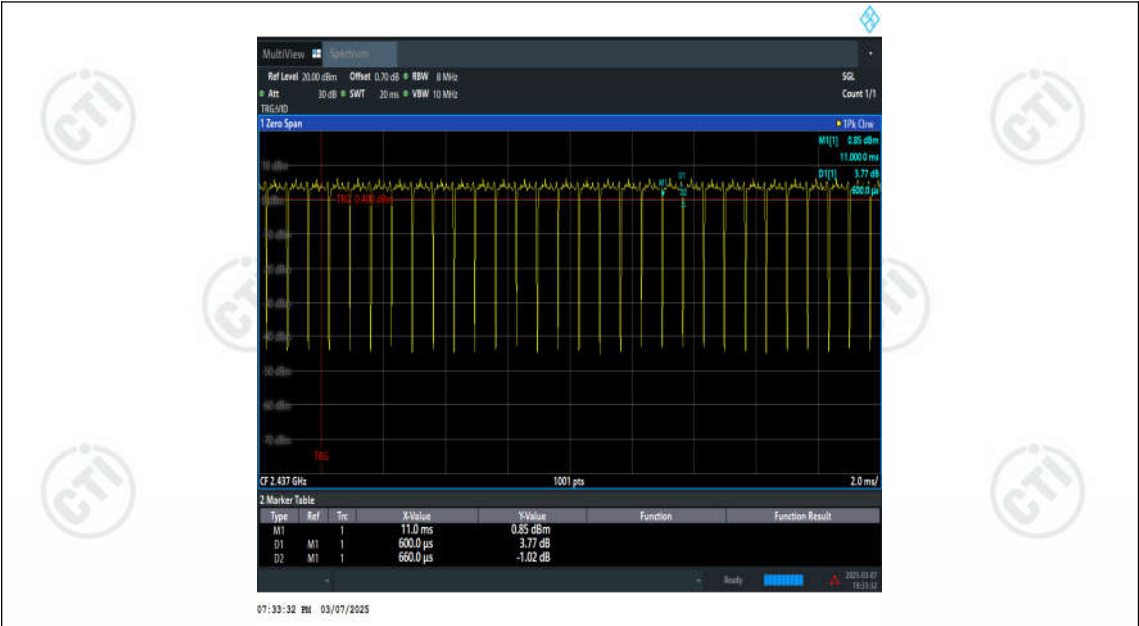




NTNV-11B-Ant1-2462



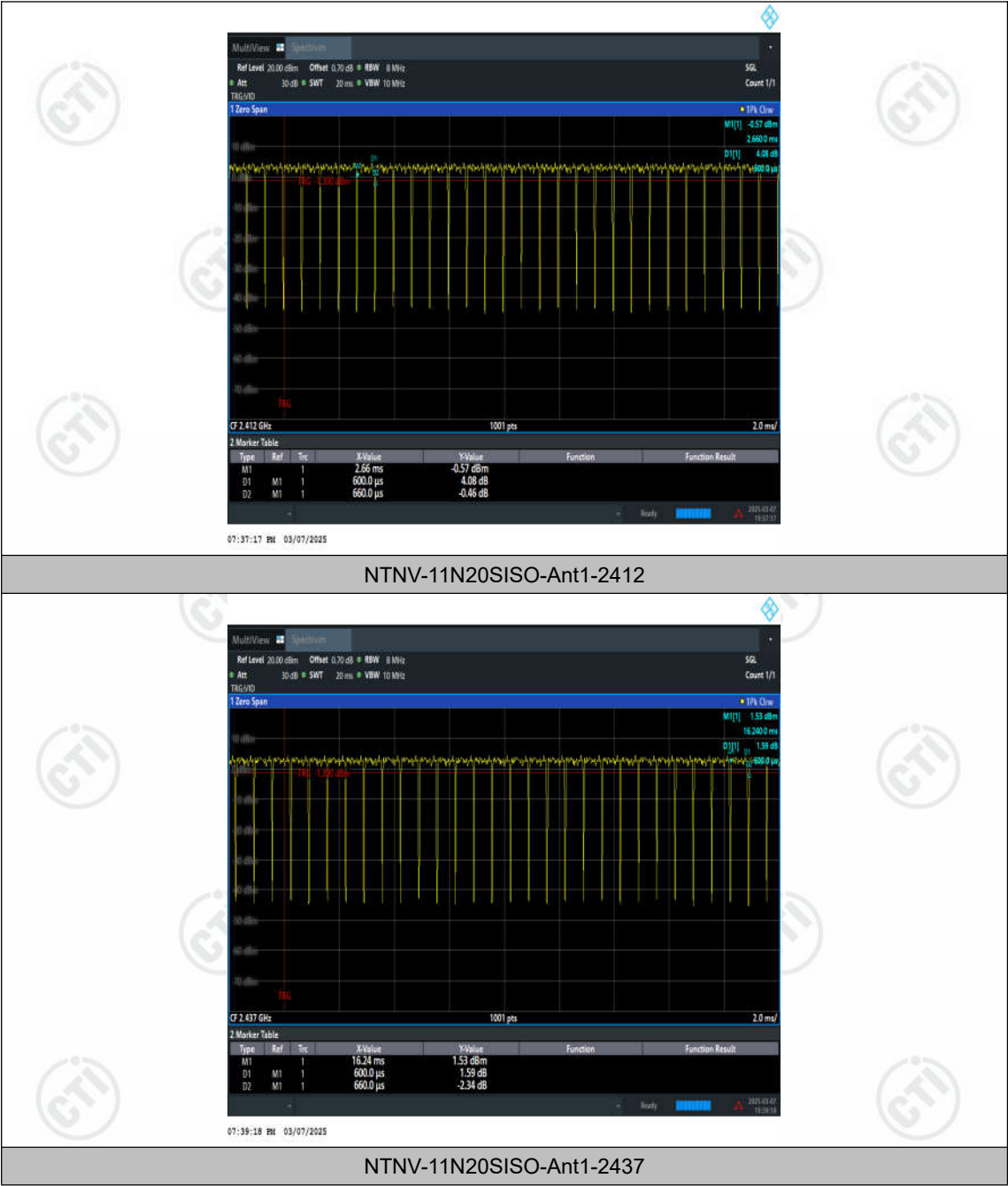
NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462







END OF REPORT