

Appendix: 2.4G Wi-Fi

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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	9.08	2407.44	2416.52	0.5	PASS
11B	Ant1	2437	8.60	2432.44	2441.04	0.5	PASS
11B	Ant1	2462	9.56	2457.44	2467.00	0.5	PASS
11G	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
11G	Ant1	2437	16.32	2428.80	2445.12	0.5	PASS
11G	Ant1	2462	16.36	2453.80	2470.16	0.5	PASS
11N20SISO	Ant1	2412	16.96	2403.56	2420.52	0.5	PASS
11N20SISO	Ant1	2437	17.52	2428.20	2445.72	0.5	PASS
11N20SISO	Ant1	2462	17.56	2453.20	2470.76	0.5	PASS

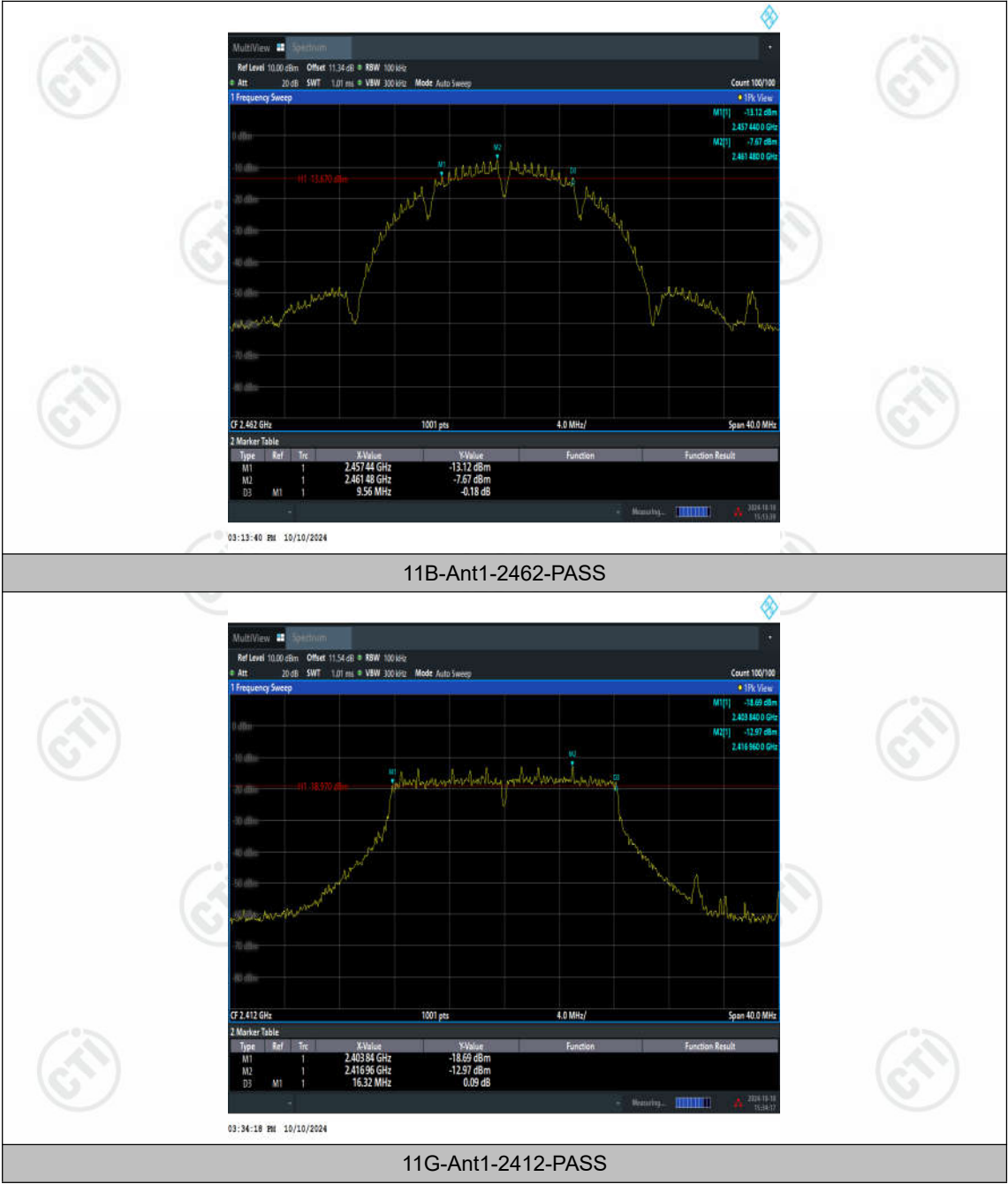
Test Graphs

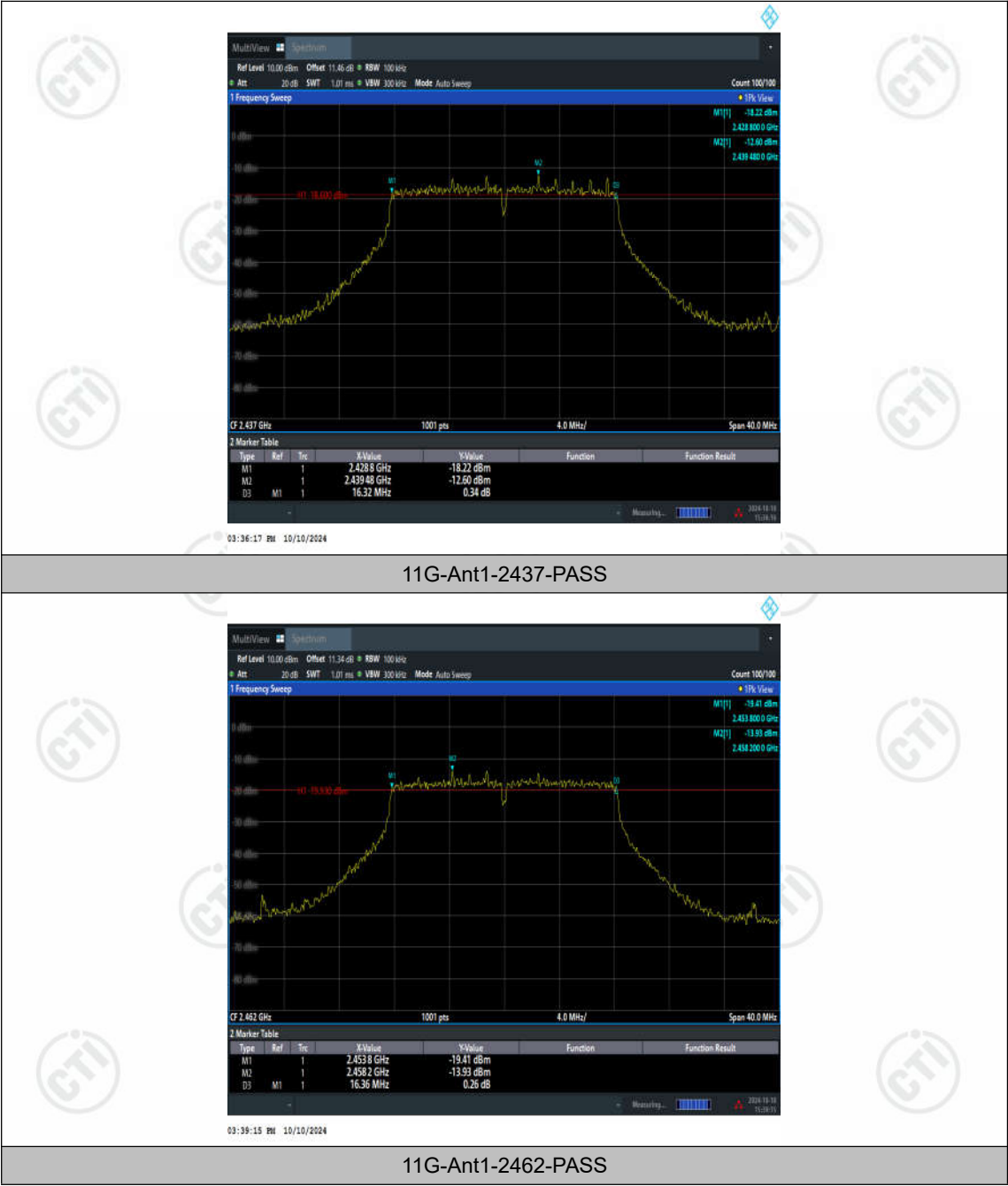


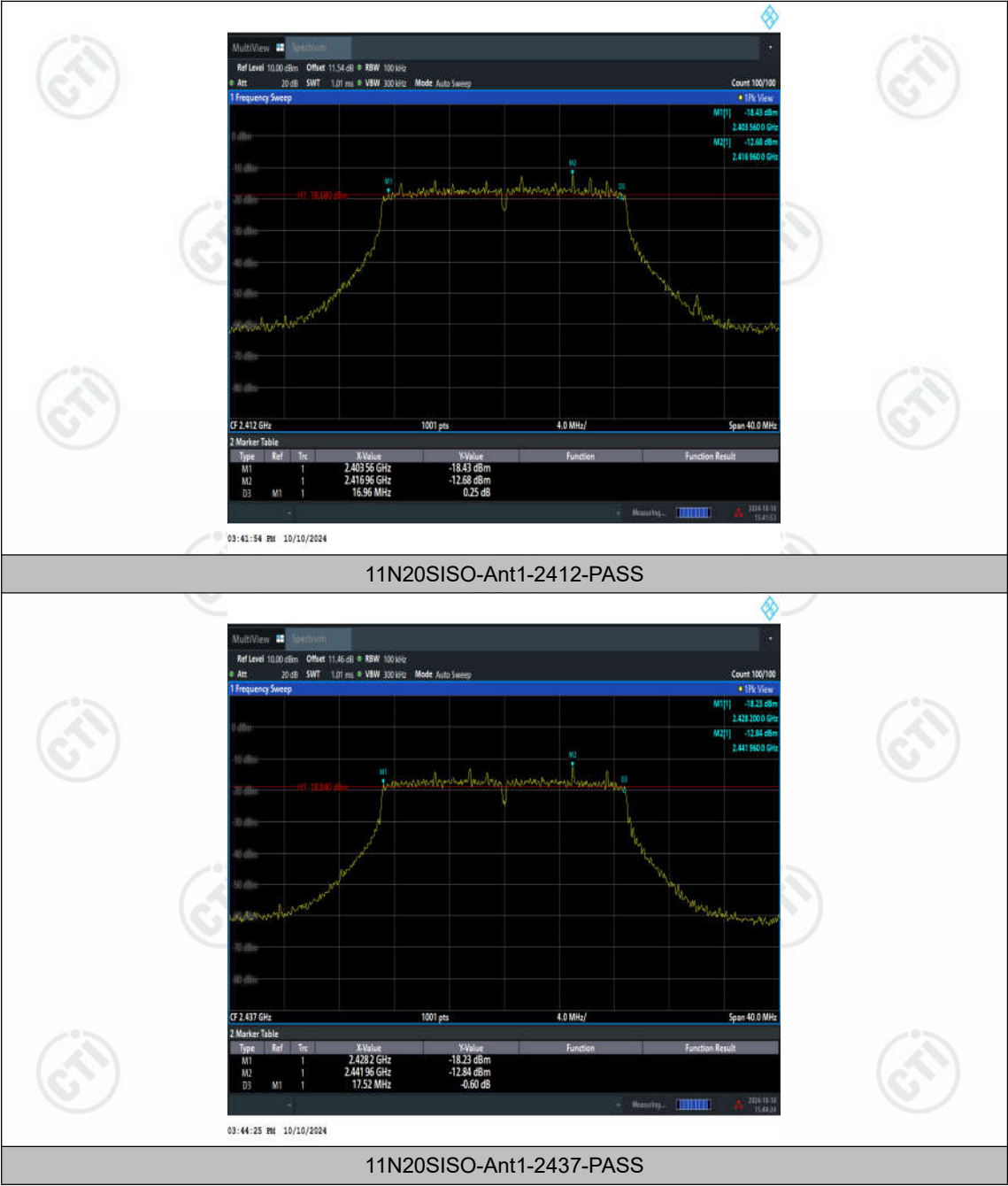
11B-Ant1-2412-PASS

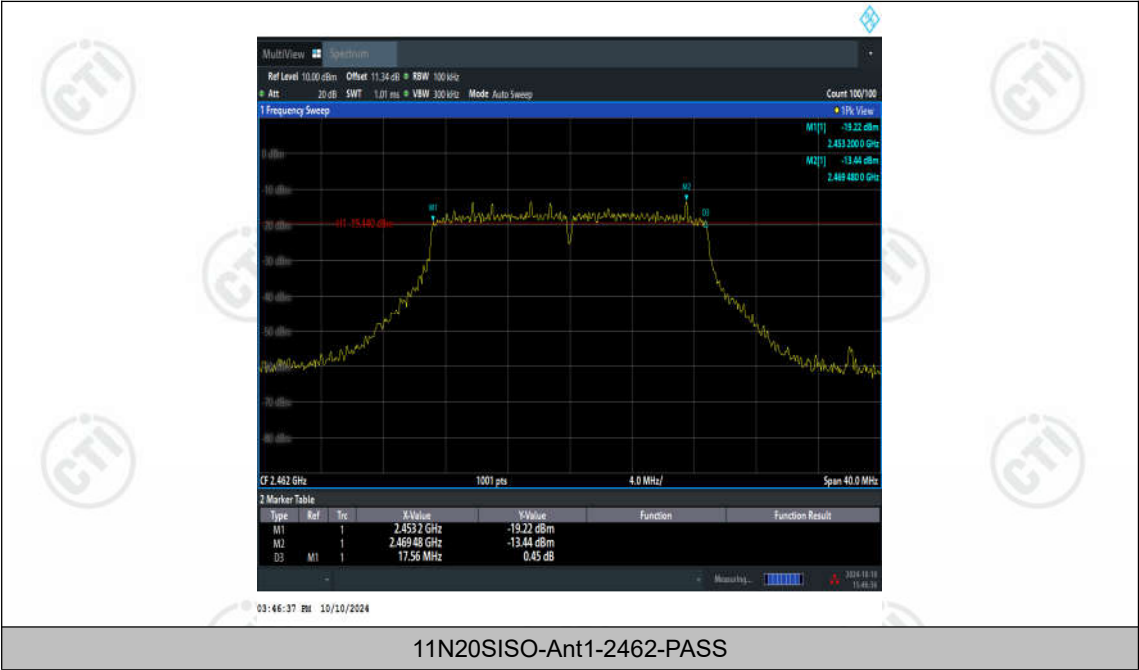


11B-Ant1-2437-PASS









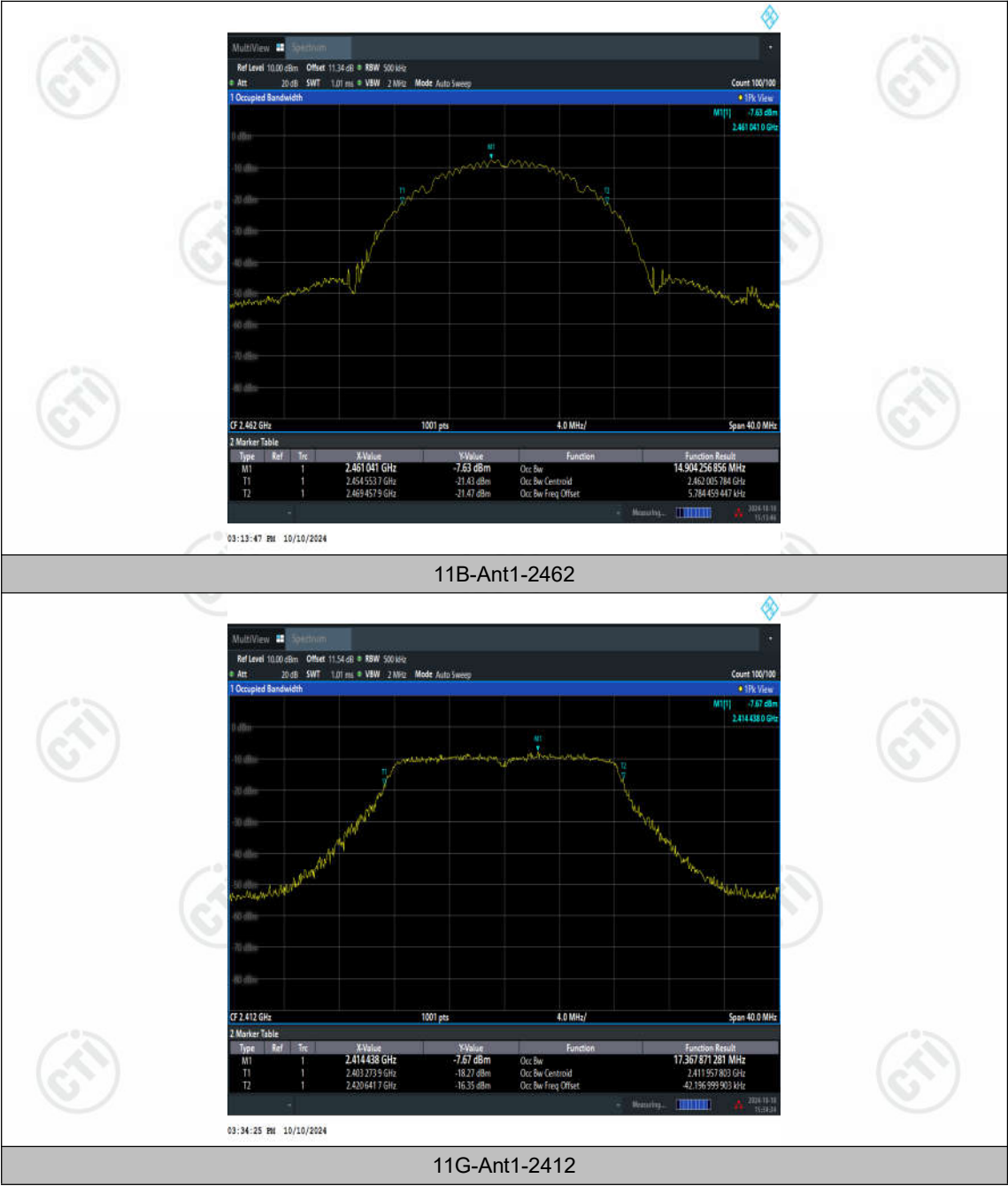
Appendix B: Occupied Channel Bandwidth

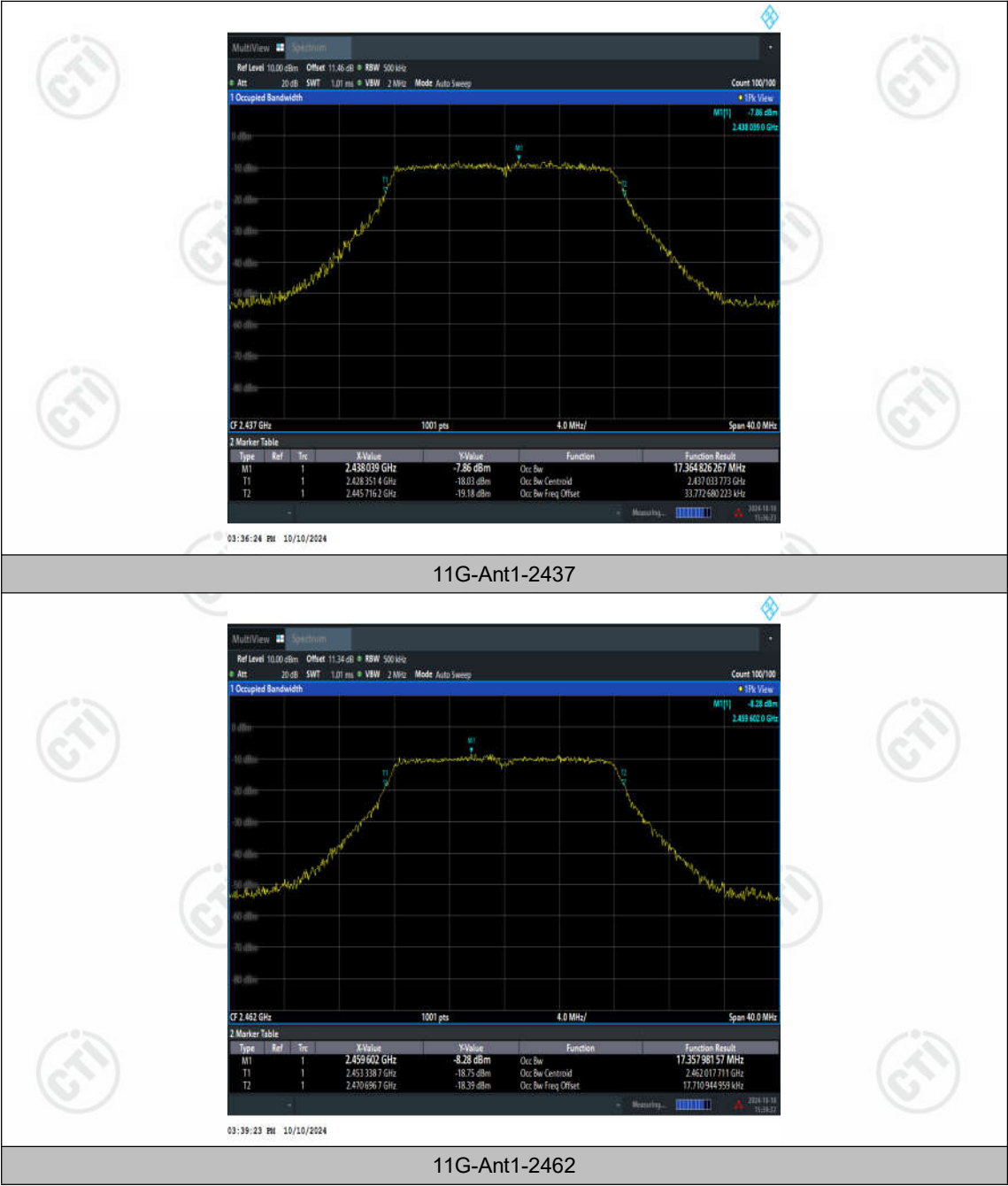
Test Result

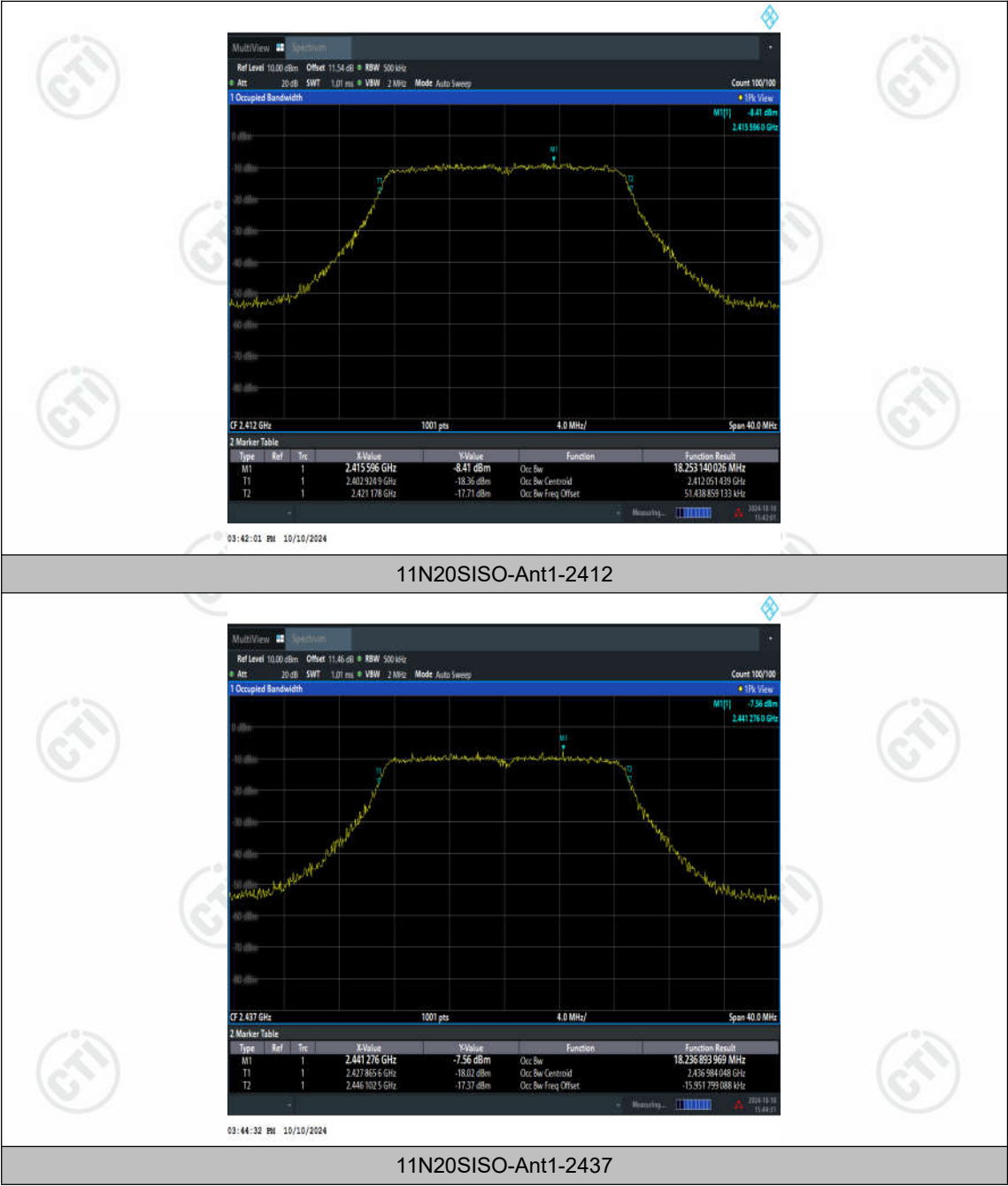
TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	14.875	2404.6224	2419.4974	---	---
11B	Ant1	2437	14.887	2429.5280	2444.4154	---	---
11B	Ant1	2462	14.904	2454.5537	2469.4579	---	---
11G	Ant1	2412	17.368	2403.2739	2420.6417	---	---
11G	Ant1	2437	17.365	2428.3514	2445.7162	---	---
11G	Ant1	2462	17.358	2453.3387	2470.6967	---	---
11N20SISO	Ant1	2412	18.253	2402.9249	2421.1780	---	---
11N20SISO	Ant1	2437	18.237	2427.8656	2446.1025	---	---
11N20SISO	Ant1	2462	18.322	2452.8430	2471.1646	---	---

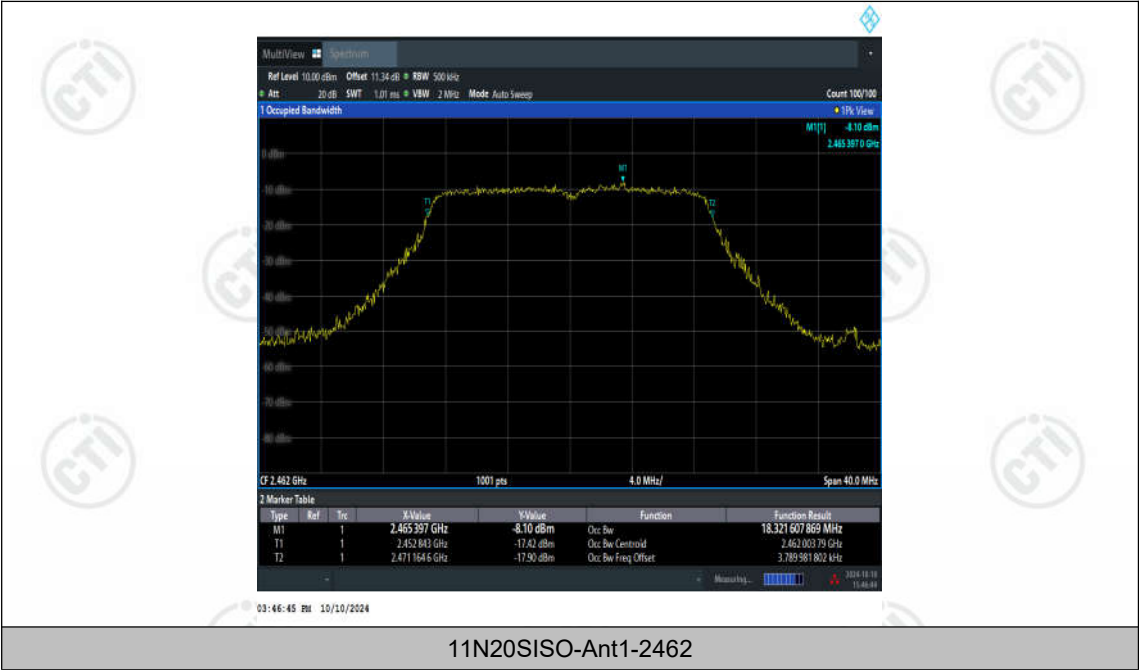
Test Graphs











Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	1.71	≤30.00	PASS
11B	Ant1	2437	1.61	≤30.00	PASS
11B	Ant1	2462	1.22	≤30.00	PASS
11G	Ant1	2412	-0.70	≤30.00	PASS
11G	Ant1	2437	-0.57	≤30.00	PASS
11G	Ant1	2462	-0.66	≤30.00	PASS
11N20SISO	Ant1	2412	-0.68	≤30.00	PASS
11N20SISO	Ant1	2437	-0.24	≤30.00	PASS
11N20SISO	Ant1	2462	-0.24	≤30.00	PASS

Note:Peak Power[dBm] has been added Duty Cycle Factor[dB];

Appendix D: Maximum power spectral density

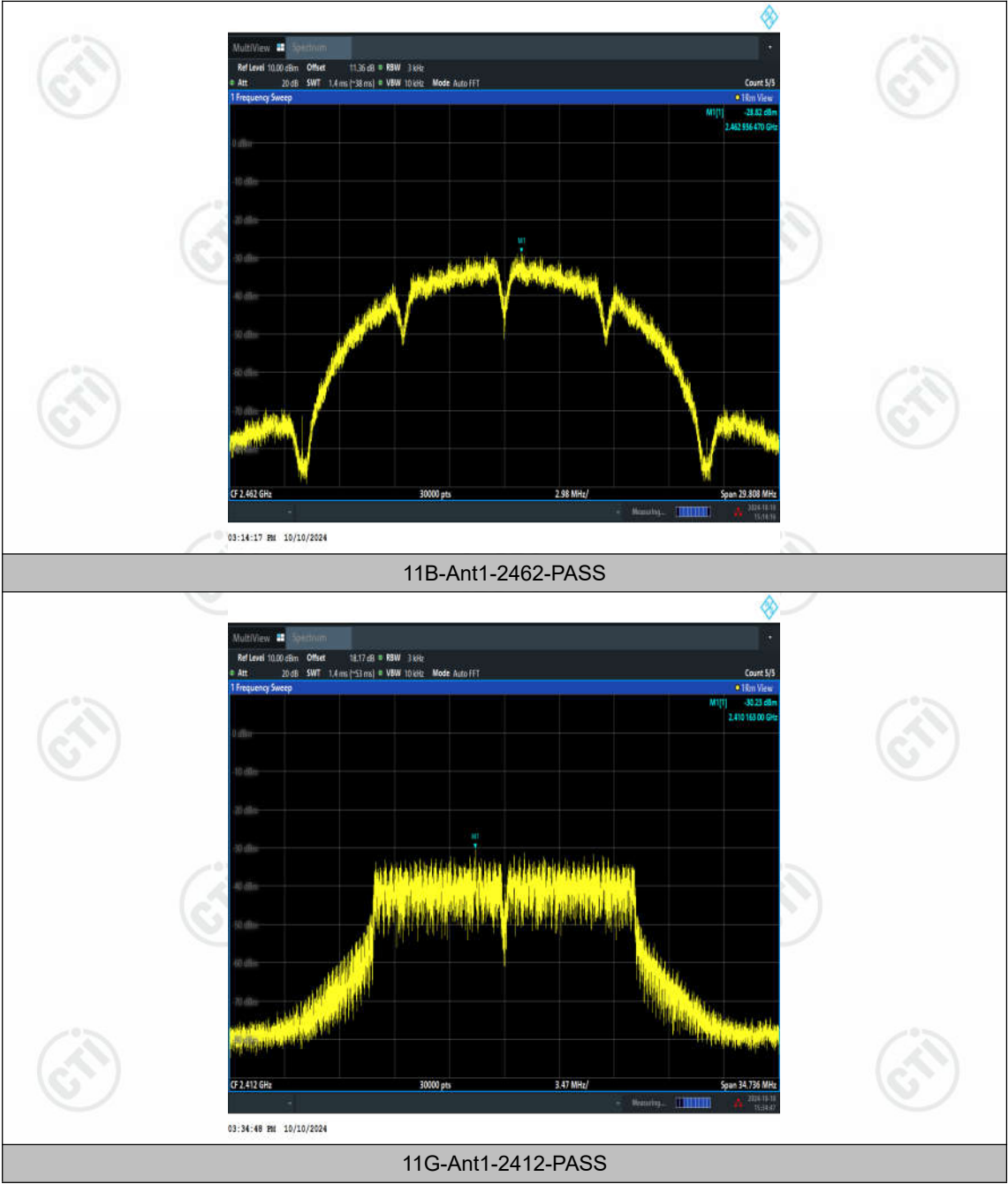
Test Result

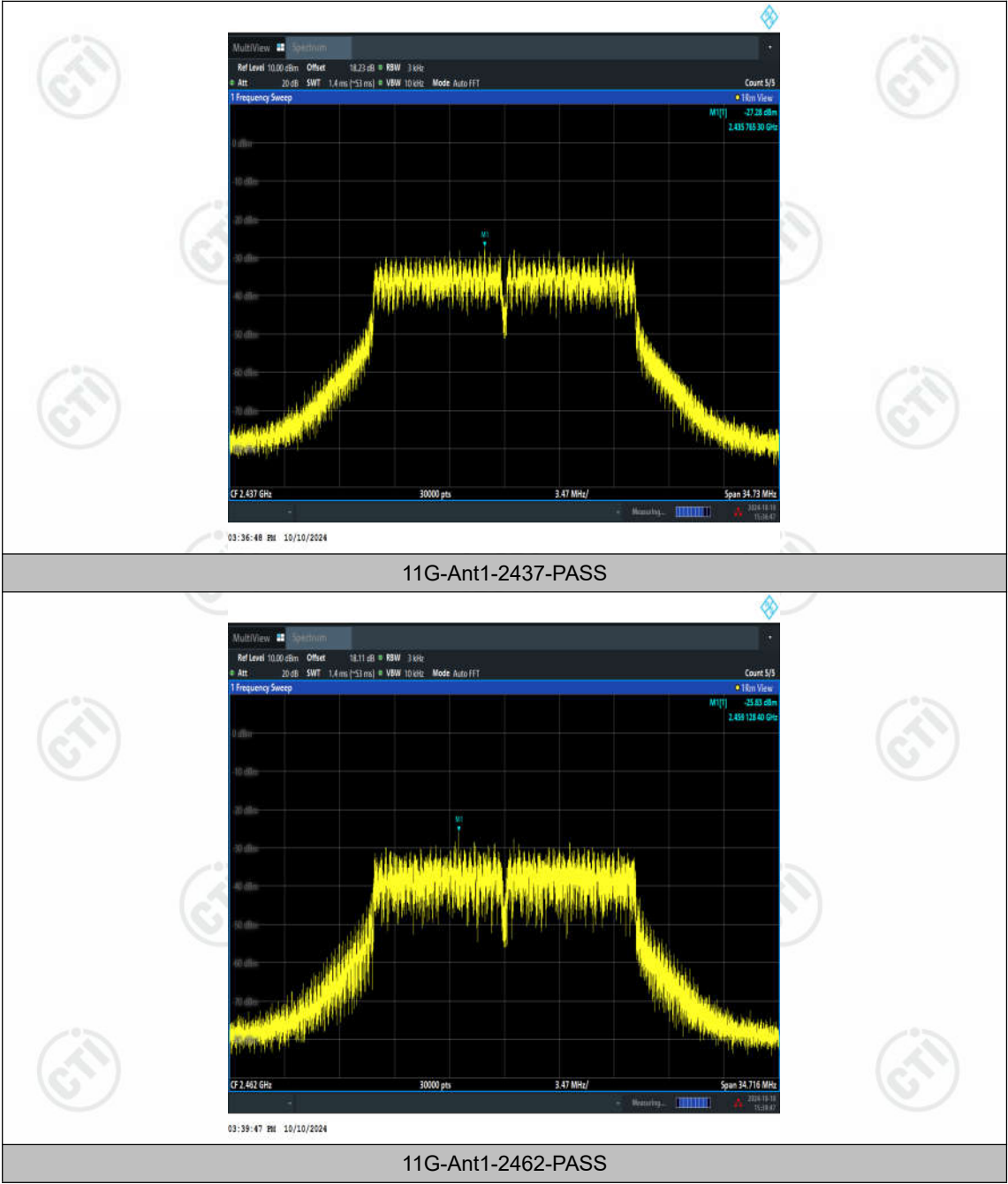
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-27.74	≤8.00	PASS
11B	Ant1	2437	-28.43	≤8.00	PASS
11B	Ant1	2462	-28.82	≤8.00	PASS
11G	Ant1	2412	-30.23	≤8.00	PASS
11G	Ant1	2437	-27.28	≤8.00	PASS
11G	Ant1	2462	-25.83	≤8.00	PASS
11N20SISO	Ant1	2412	-29.00	≤8.00	PASS
11N20SISO	Ant1	2437	-30.06	≤8.00	PASS
11N20SISO	Ant1	2462	-30.17	≤8.00	PASS

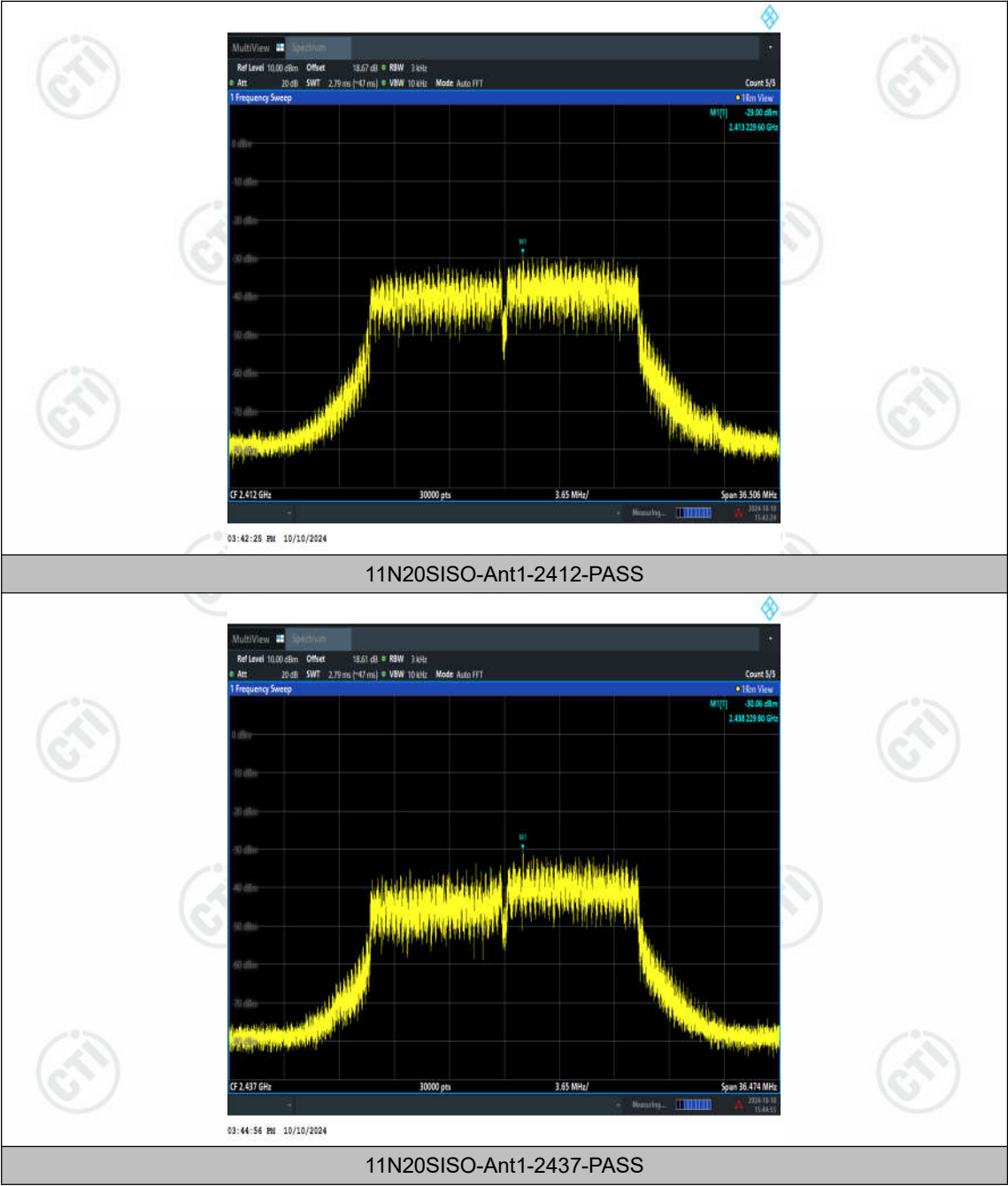
Note:Result[dBm/3-100kHz] has been added Duty Cycle Factor[dB];

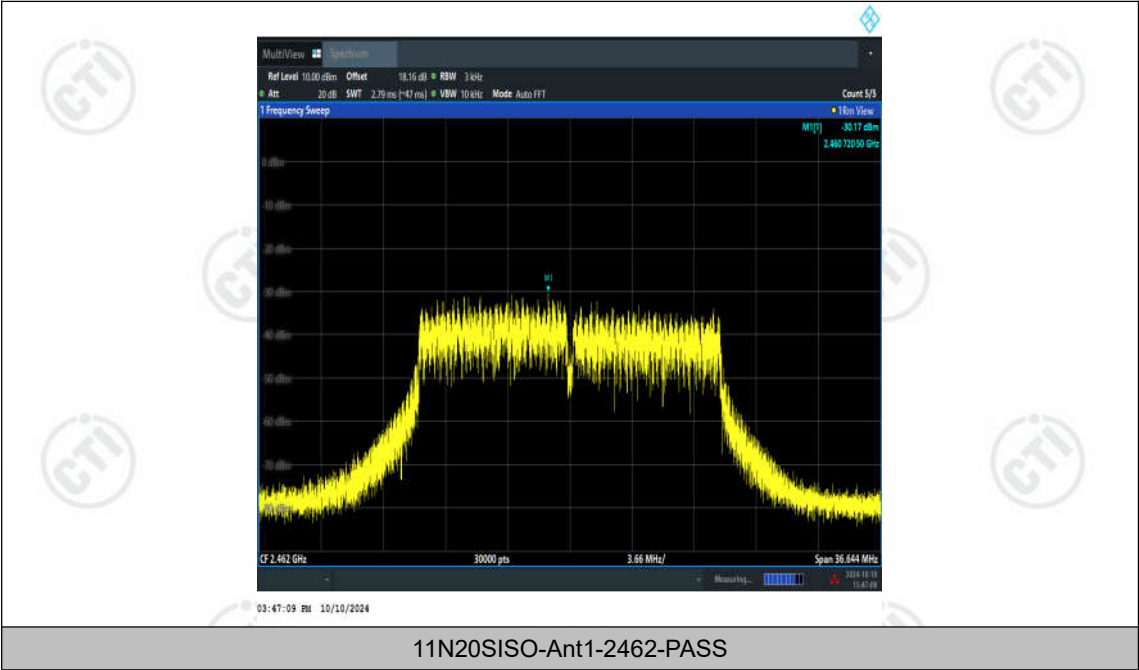
Test Graphs









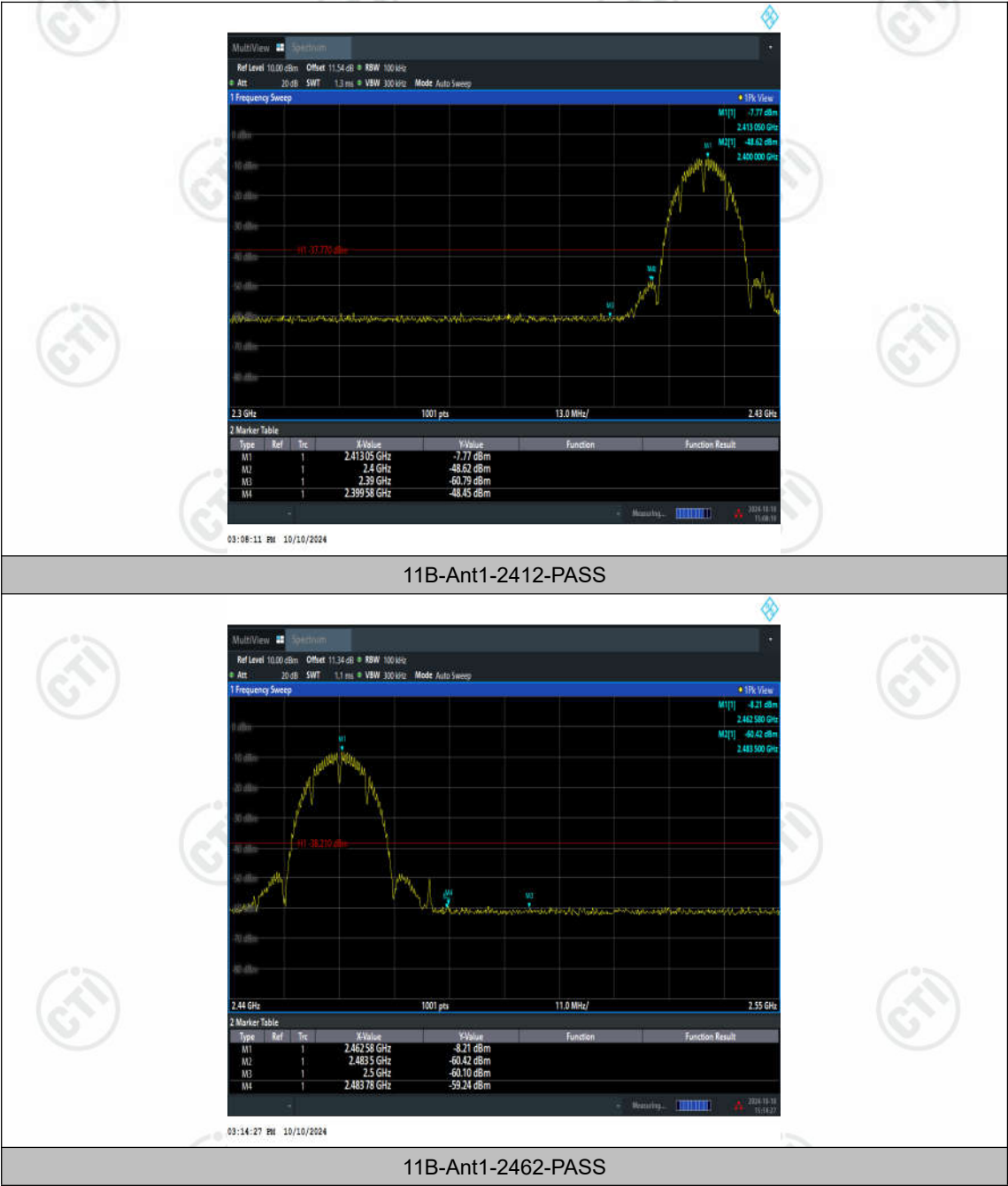


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	-7.77	-48.45	≤-37.77	PASS
11B	Ant1	High	2462	-8.21	-59.24	≤-38.21	PASS
11G	Ant1	Low	2412	-12.44	-48.18	≤-42.44	PASS
11G	Ant1	High	2462	-13.10	-58.65	≤-43.1	PASS
11N20SISO	Ant1	Low	2412	-12.78	-48.43	≤-42.78	PASS
11N20SISO	Ant1	High	2462	-13.75	-58.65	≤-43.75	PASS

Test Graphs





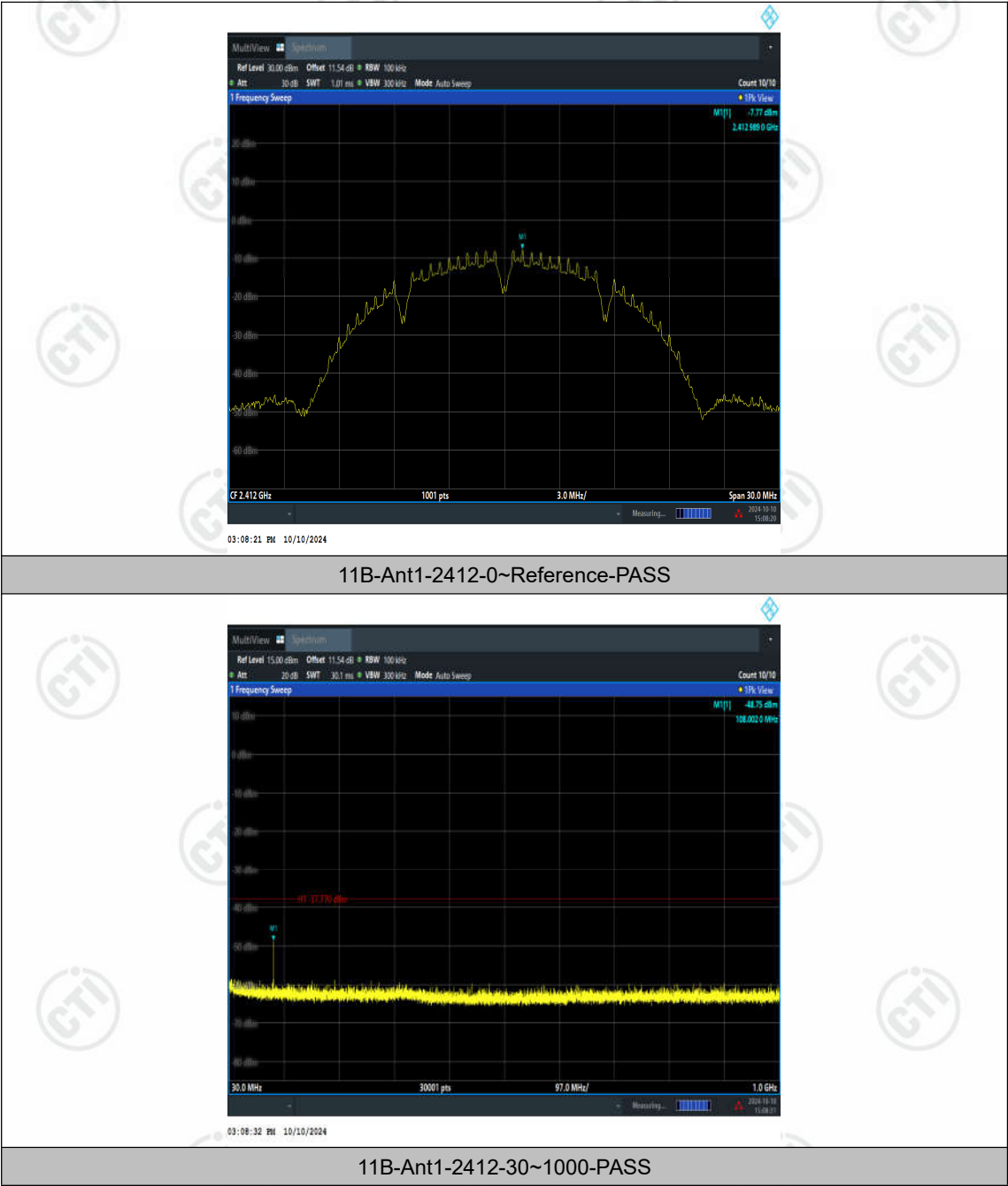


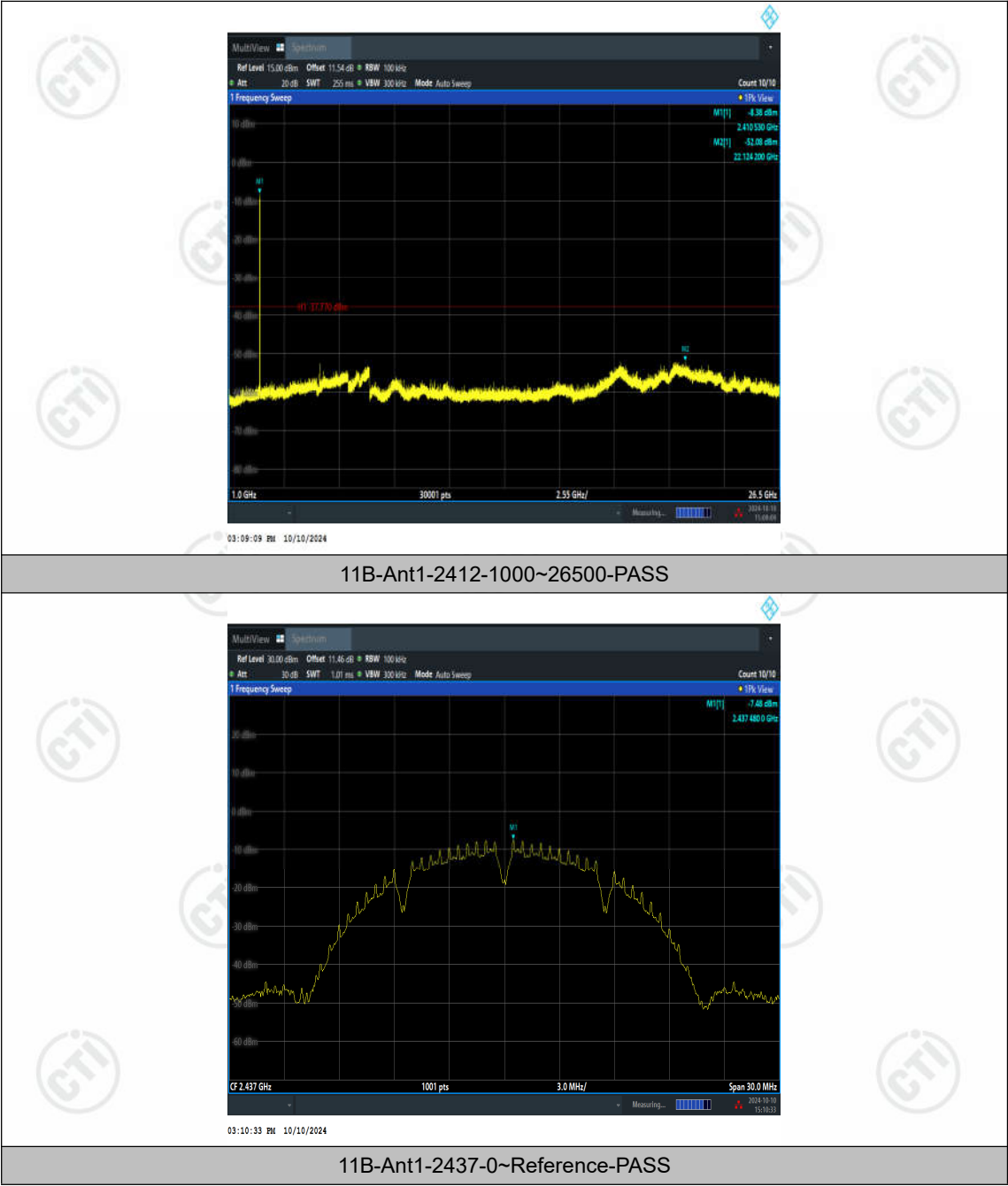
Appendix F: Conducted Spurious Emission

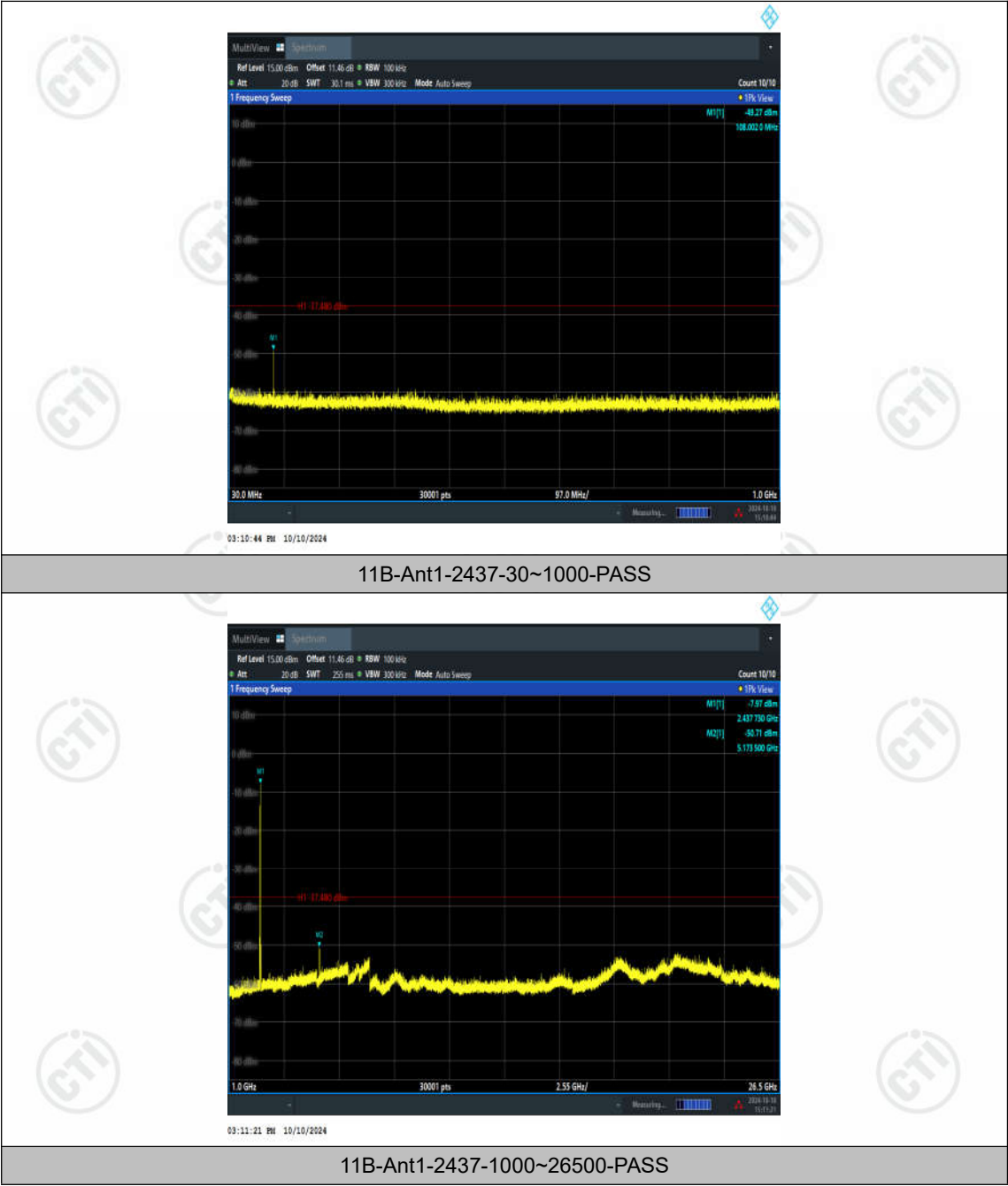
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-7.77	-7.77	---	PASS
11B	Ant1	2412	30~1000	-7.77	-48.75	≤-37.77	PASS
11B	Ant1	2412	1000~26500	-7.77	-52.08	≤-37.77	PASS
11B	Ant1	2437	0~Reference	-7.48	-7.48	---	PASS
11B	Ant1	2437	30~1000	-7.48	-49.27	≤-37.48	PASS
11B	Ant1	2437	1000~26500	-7.48	-50.71	≤-37.48	PASS
11B	Ant1	2462	0~Reference	-8.53	-8.53	---	PASS
11B	Ant1	2462	30~1000	-8.53	-49.17	≤-38.53	PASS
11B	Ant1	2462	1000~26500	-8.53	-49.77	≤-38.53	PASS
11G	Ant1	2412	0~Reference	-12.56	-12.56	---	PASS
11G	Ant1	2412	30~1000	-12.56	-49.11	≤-42.56	PASS
11G	Ant1	2412	1000~26500	-12.56	-51.56	≤-42.56	PASS
11G	Ant1	2437	0~Reference	-12.71	-12.71	---	PASS
11G	Ant1	2437	30~1000	-12.71	-49.73	≤-42.71	PASS
11G	Ant1	2437	1000~26500	-12.71	-50.33	≤-42.71	PASS
11G	Ant1	2462	0~Reference	-13.34	-13.34	---	PASS
11G	Ant1	2462	30~1000	-13.34	-49.99	≤-43.34	PASS
11G	Ant1	2462	1000~26500	-13.34	-52.19	≤-43.34	PASS
11N20SISO	Ant1	2412	0~Reference	-12.92	-12.92	---	PASS
11N20SISO	Ant1	2412	30~1000	-12.92	-48.47	≤-42.92	PASS
11N20SISO	Ant1	2412	1000~26500	-12.92	-51.17	≤-42.92	PASS
11N20SISO	Ant1	2437	0~Reference	-12.68	-12.68	---	PASS
11N20SISO	Ant1	2437	30~1000	-12.68	-48.51	≤-42.68	PASS
11N20SISO	Ant1	2437	1000~26500	-12.68	-51.72	≤-42.68	PASS
11N20SISO	Ant1	2462	0~Reference	-13.20	-13.20	---	PASS
11N20SISO	Ant1	2462	30~1000	-13.20	-48.74	≤-43.2	PASS
11N20SISO	Ant1	2462	1000~26500	-13.20	-51.9	≤-43.2	PASS

Test Graphs

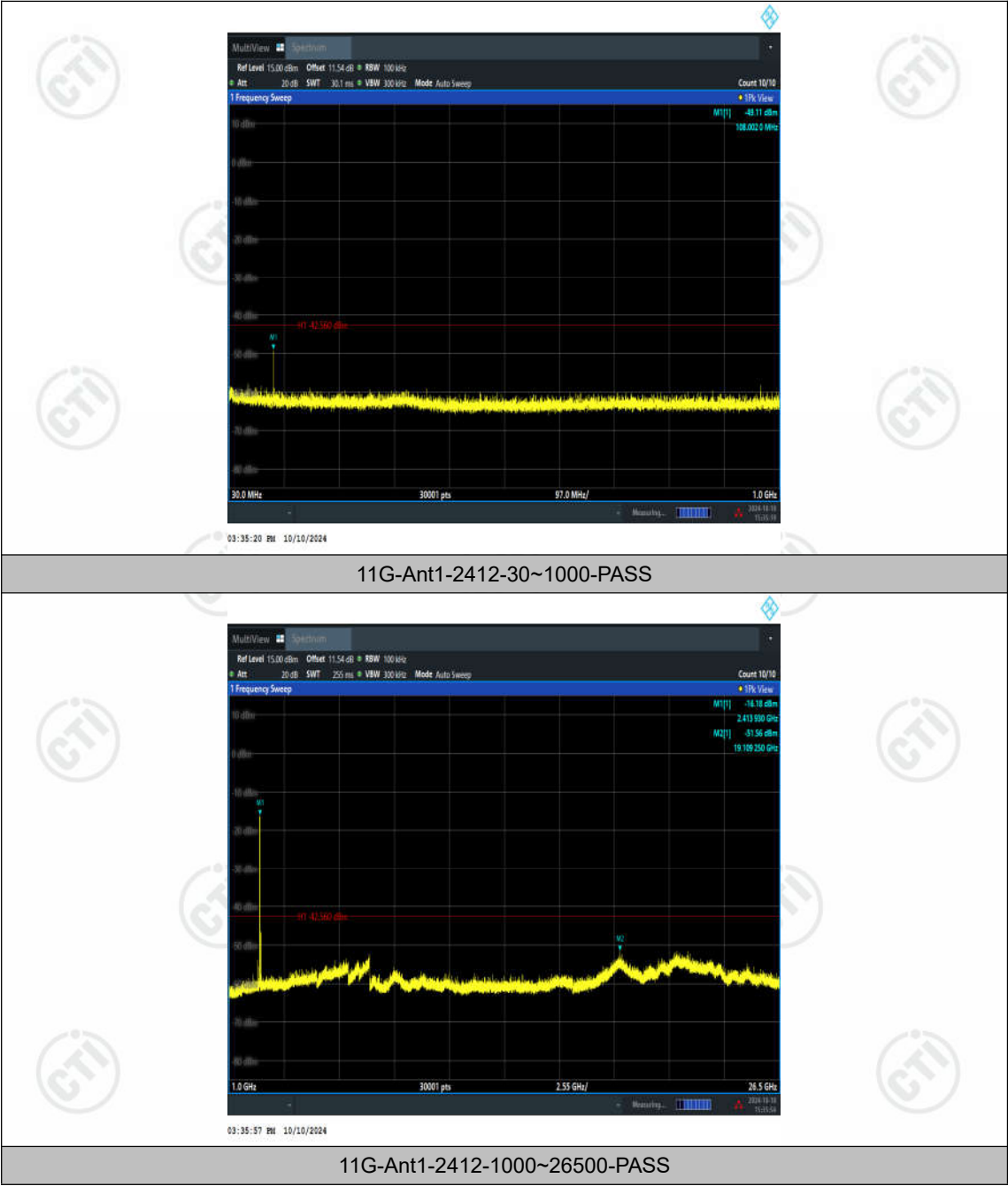


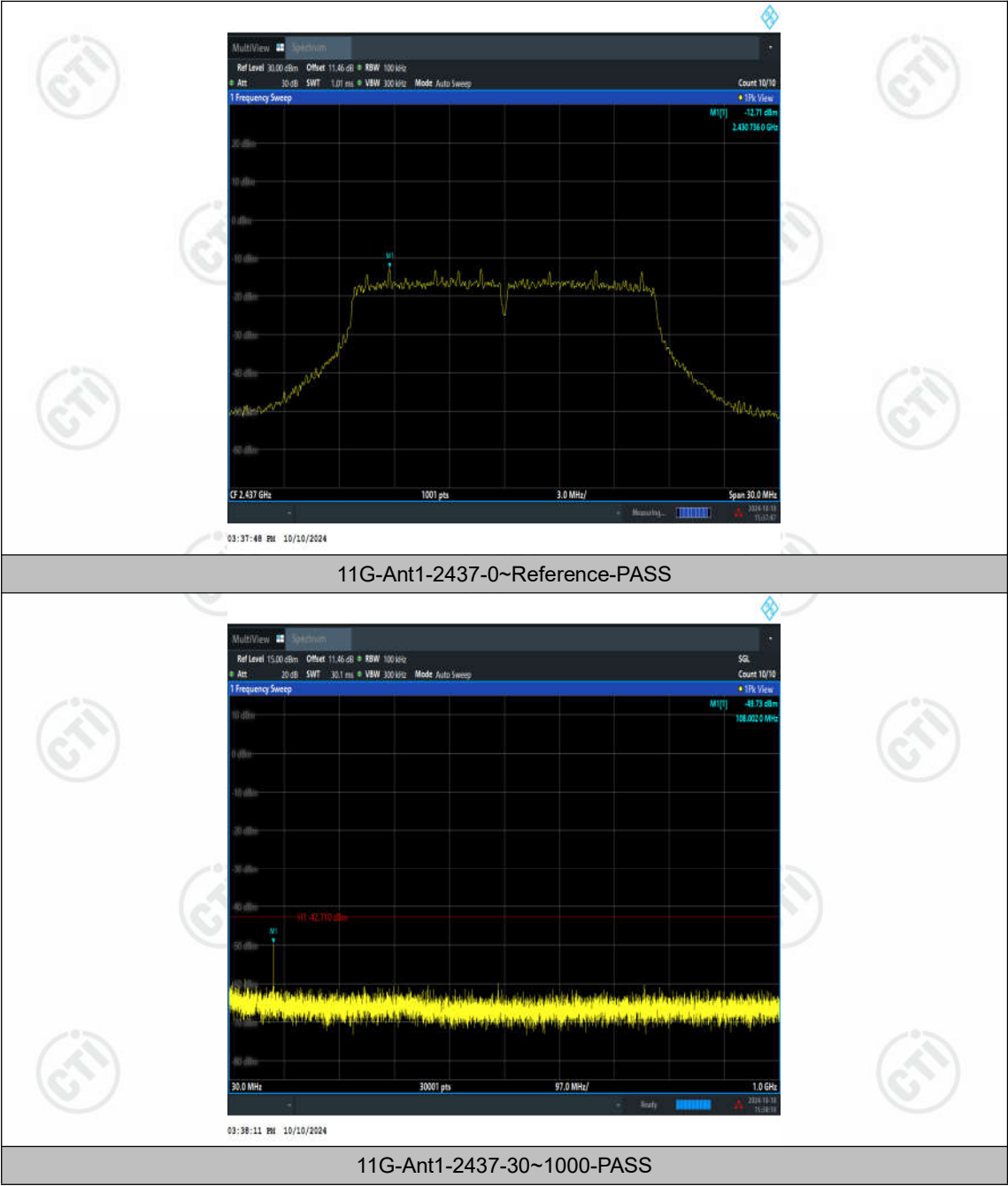


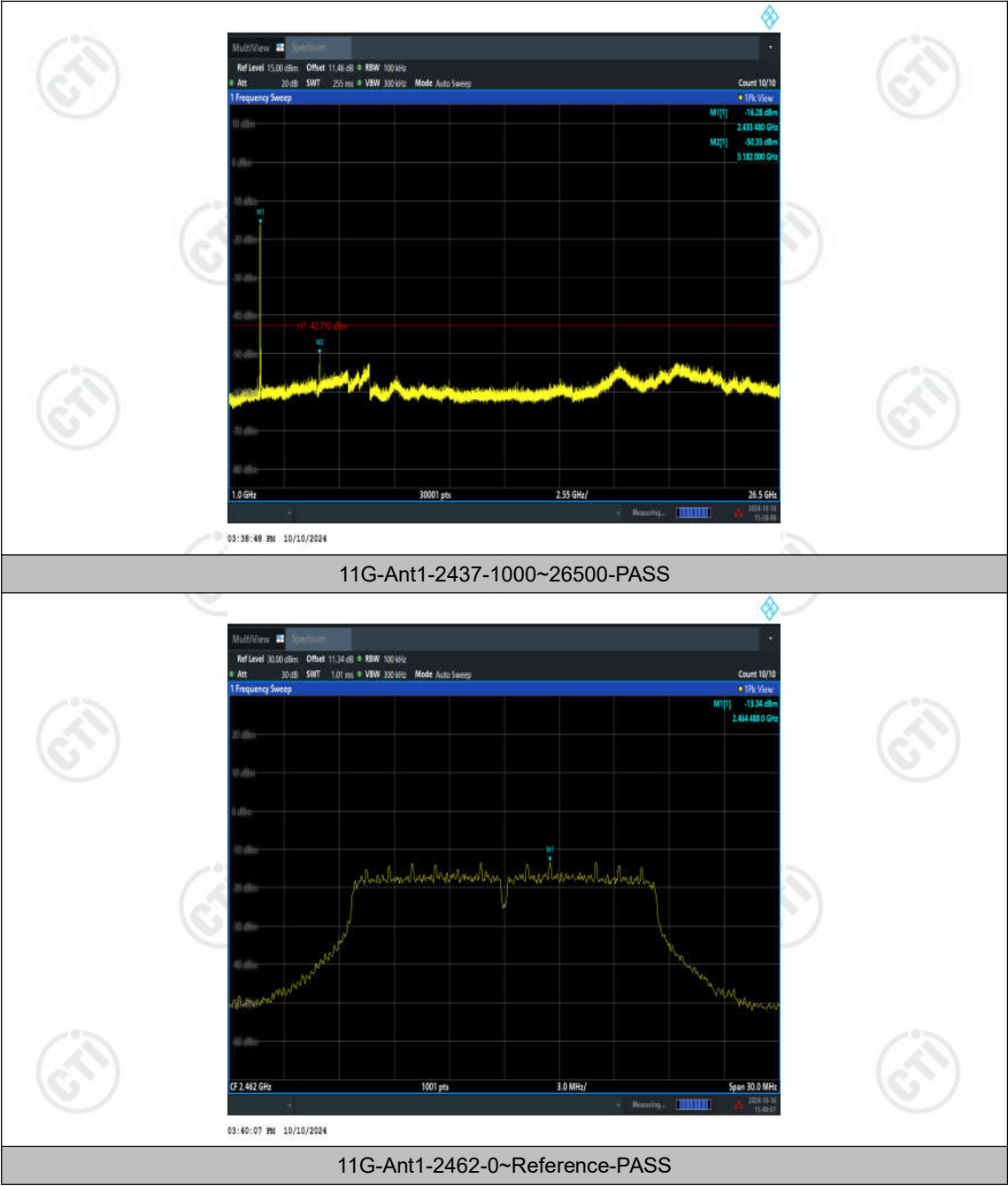


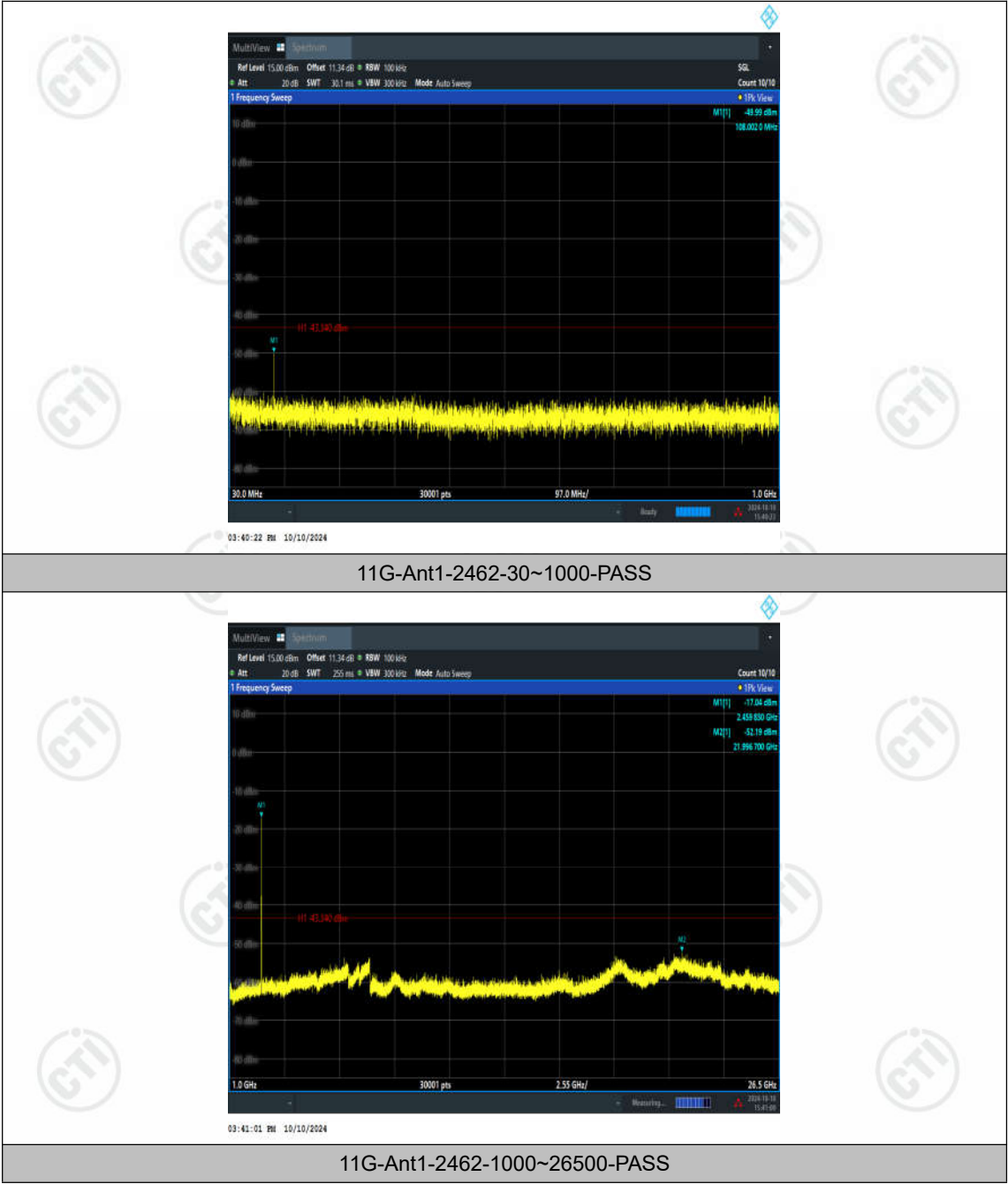


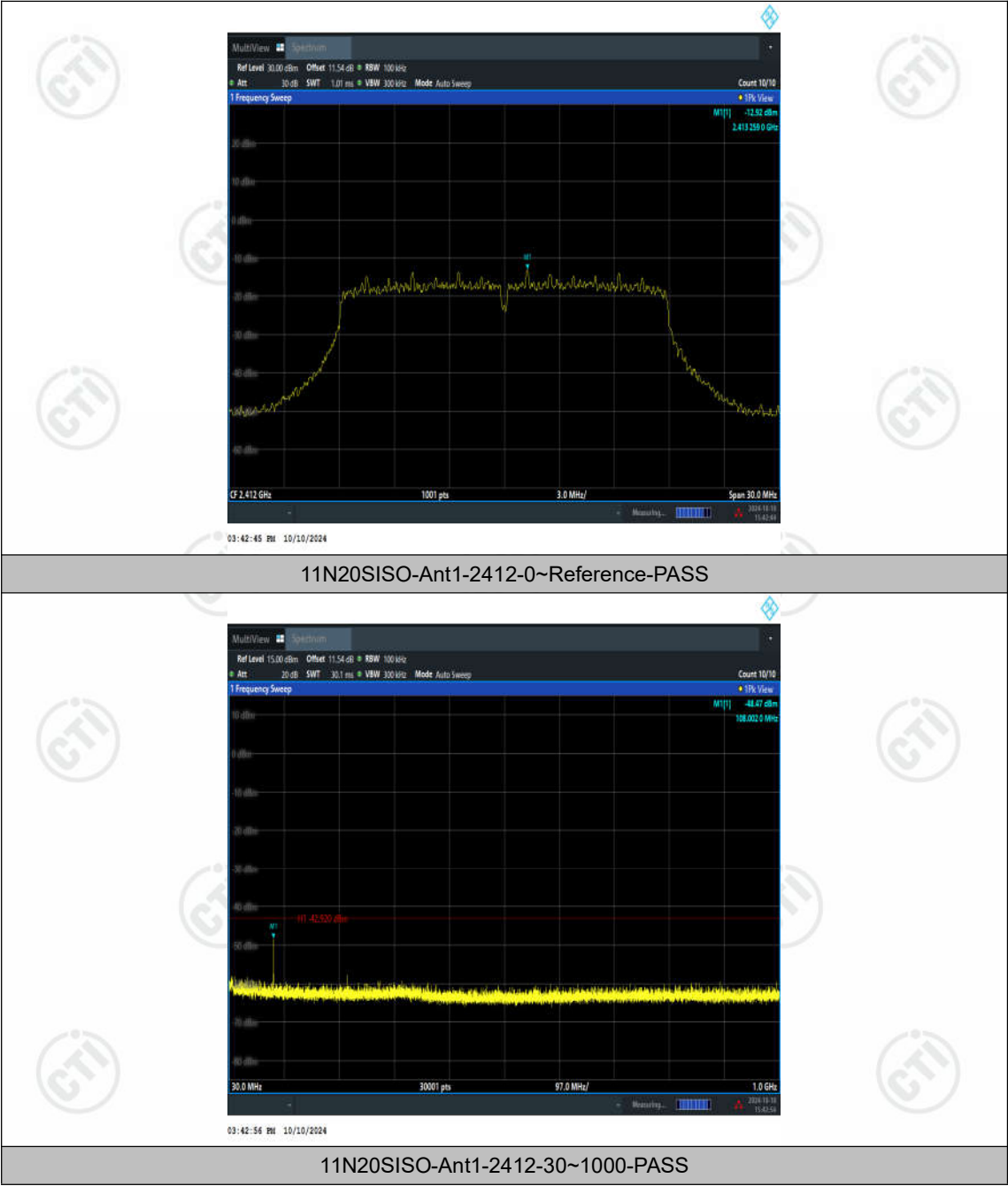


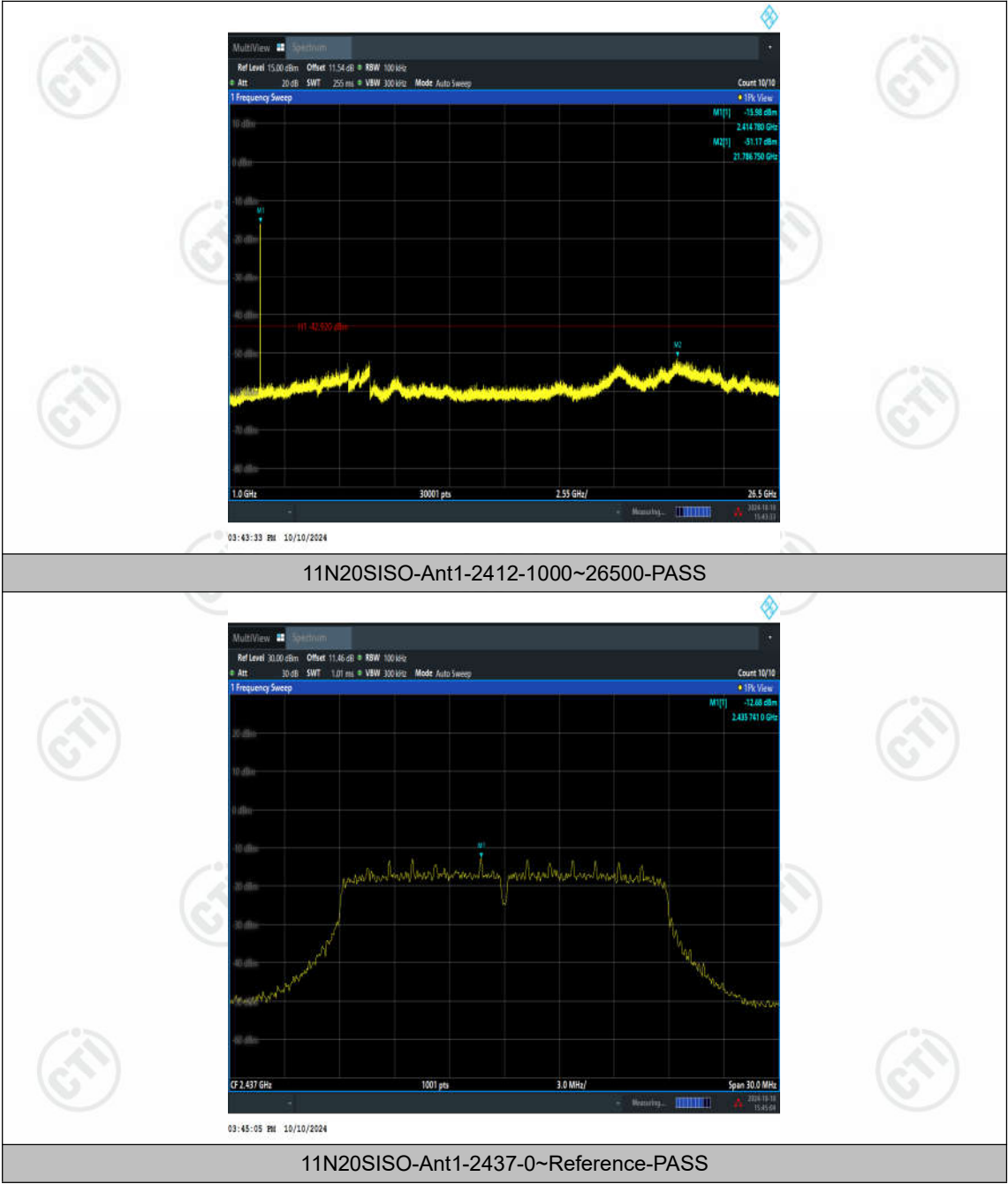


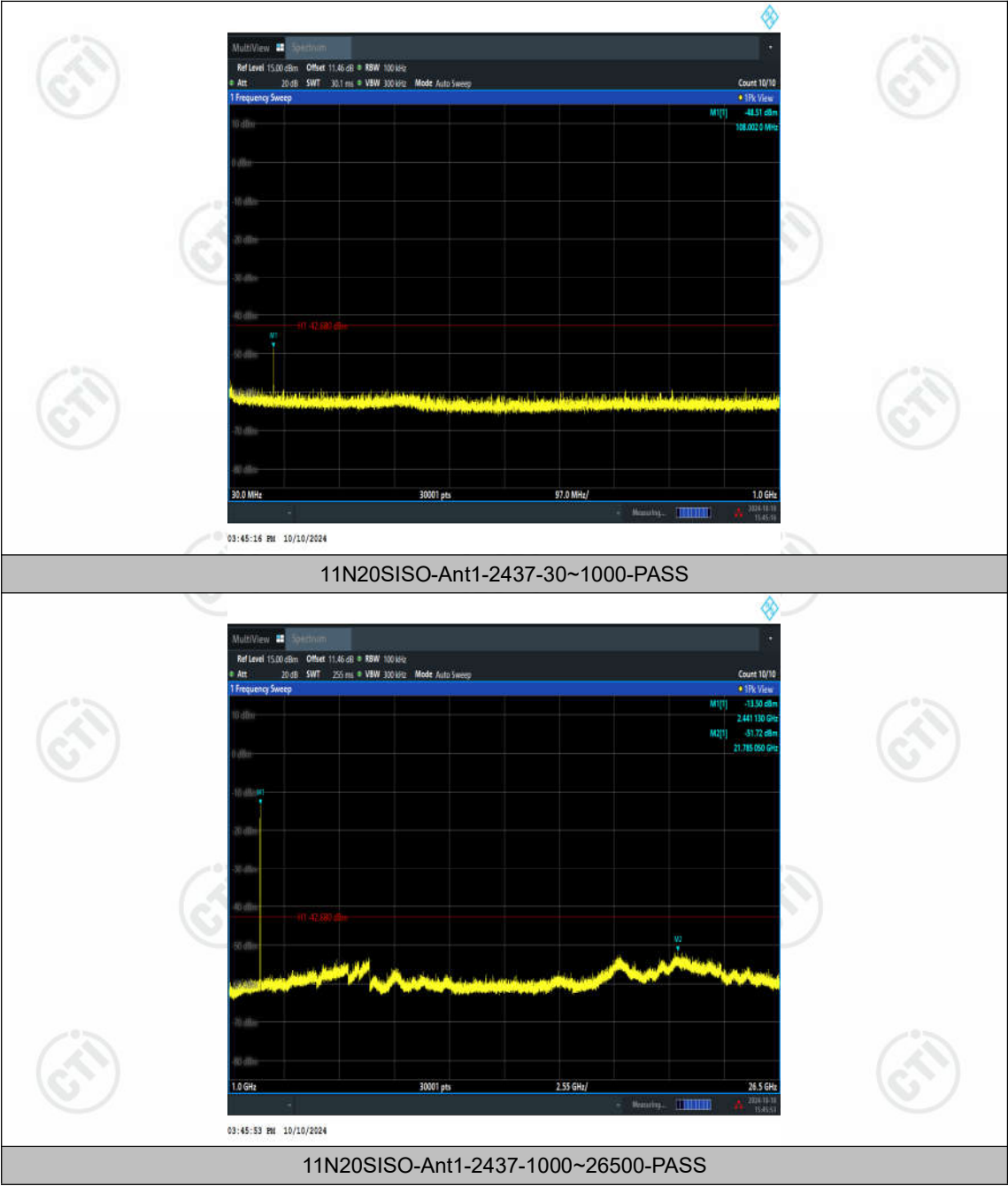


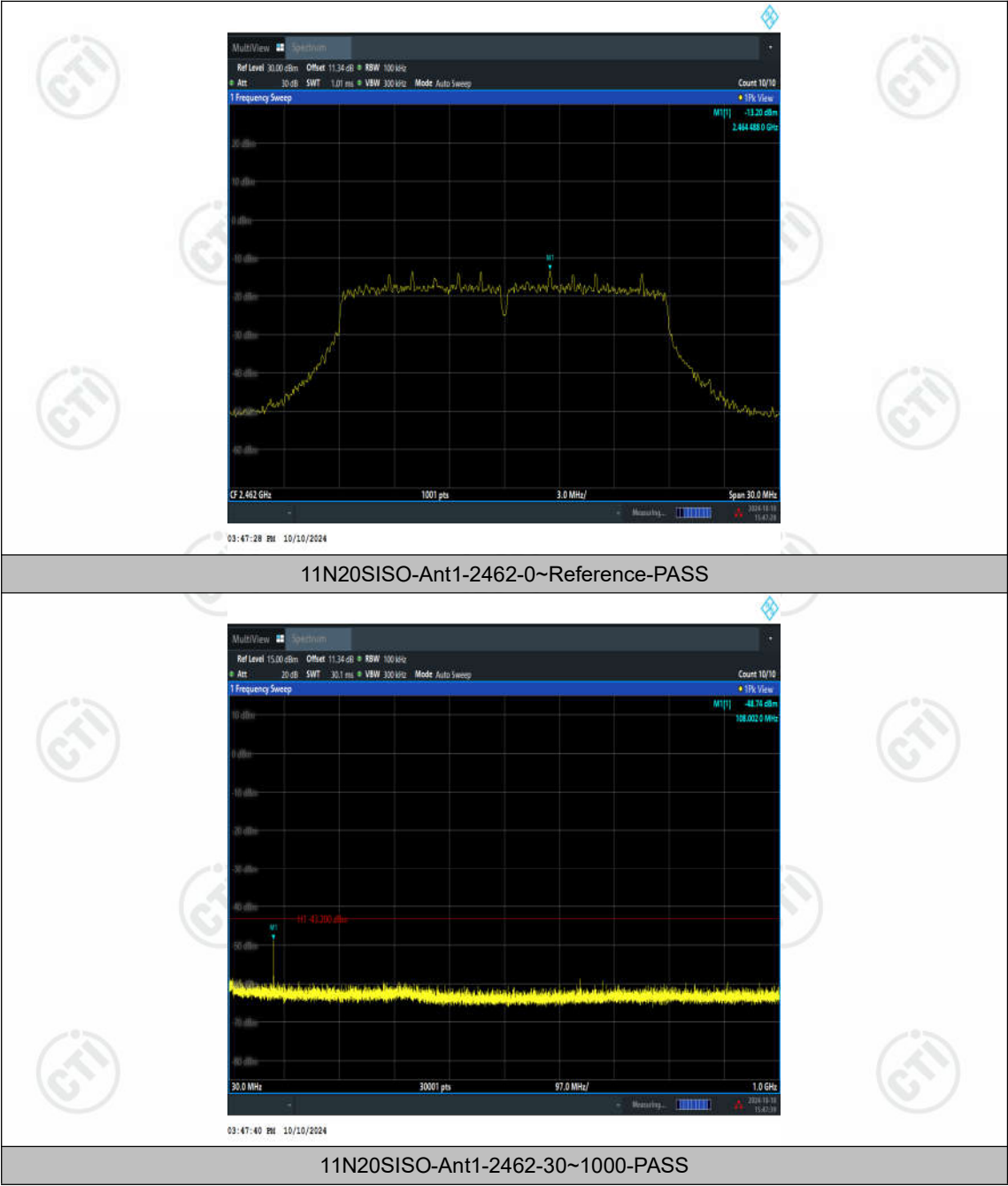


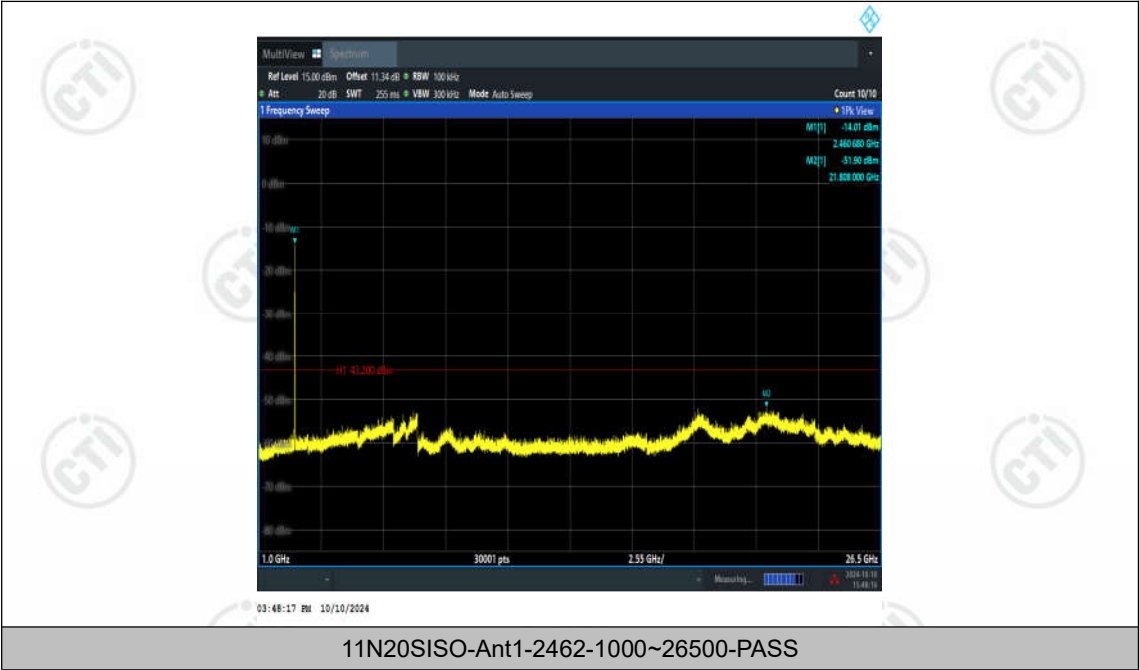












Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
11B	Ant1	2412	12.44	12.52	99.36	0.03
11B	Ant1	2437	12.42	12.52	99.20	0.03
11B	Ant1	2462	12.43	12.49	99.52	0.02
11G	Ant1	2412	2.06	9.48	21.73	6.63
11G	Ant1	2437	2.06	9.80	21.02	6.77
11G	Ant1	2462	2.06	9.80	21.02	6.77
11N20SISO	Ant1	2412	1.92	9.92	19.35	7.13
11N20SISO	Ant1	2437	1.92	9.96	19.28	7.15
11N20SISO	Ant1	2462	1.92	9.22	20.82	6.82

Note:Duty Cycle Factor[dB]=-10*Ig(Duty Cycle);

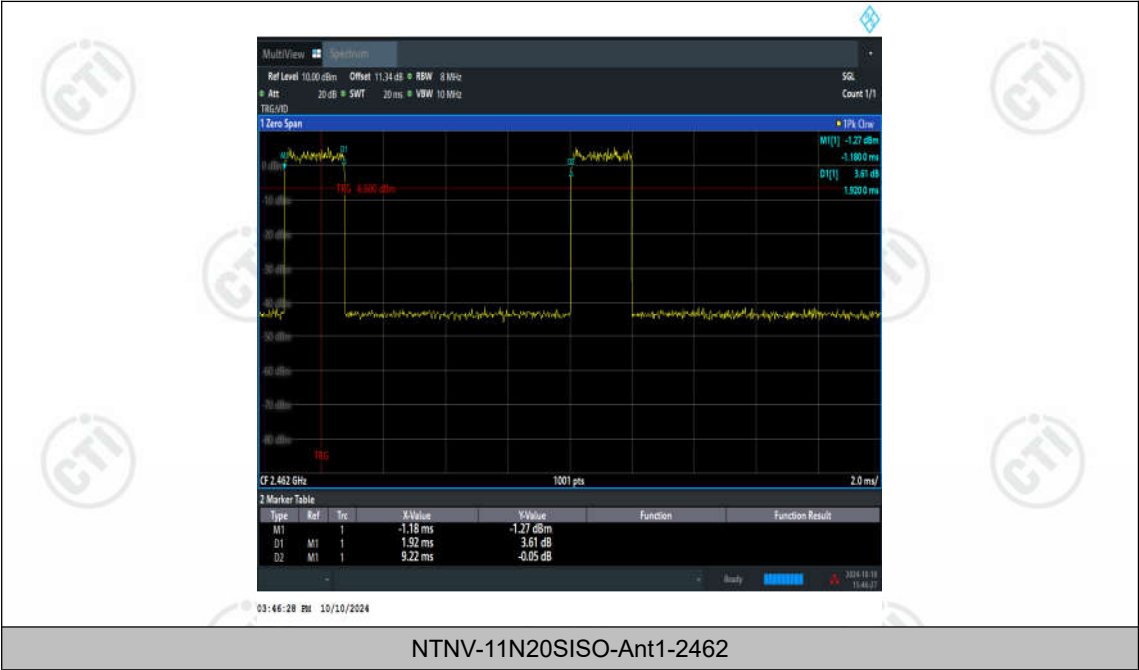
Test Graphs











*** End of Report ***