

Appendix: 2.4G Wi-Fi

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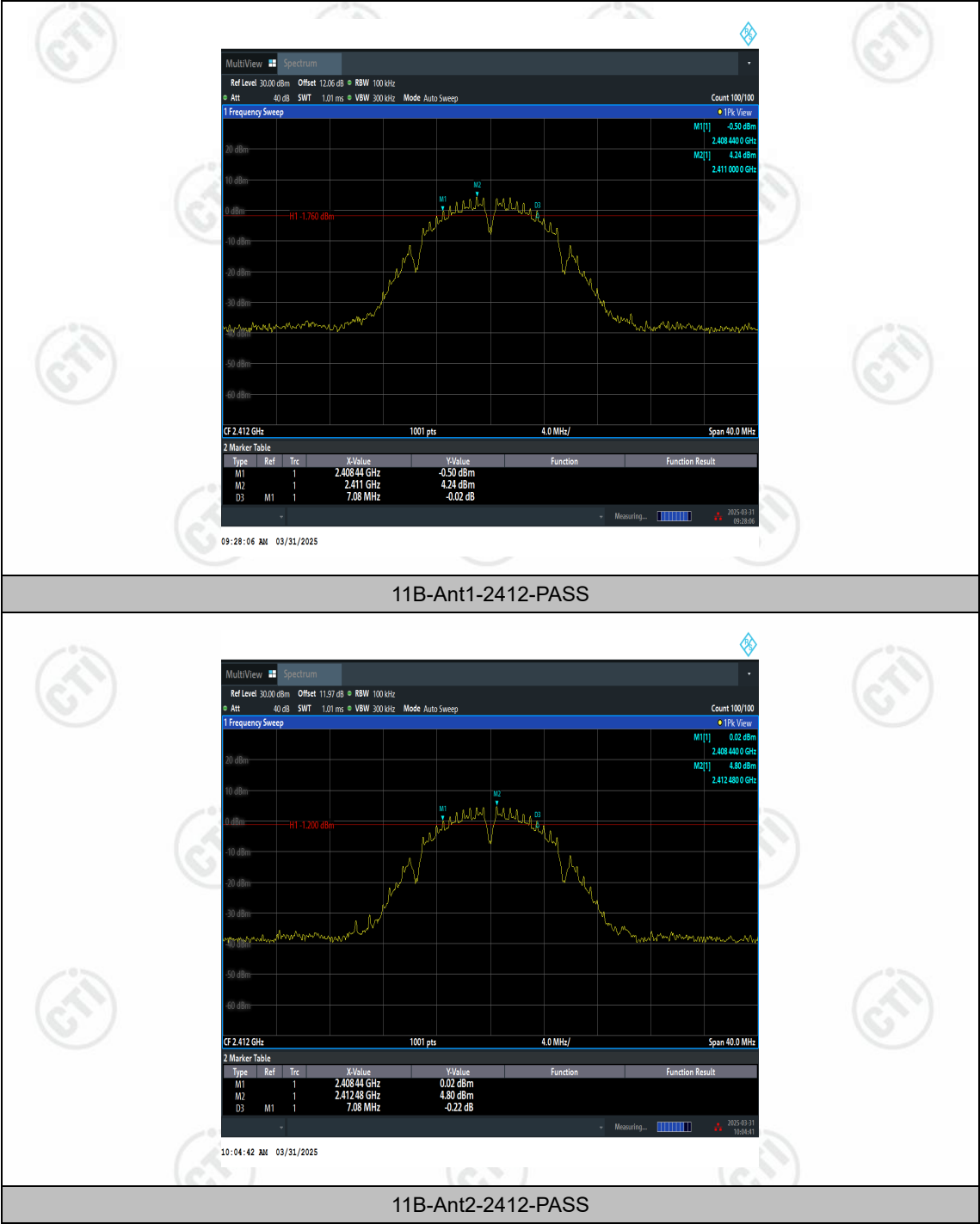
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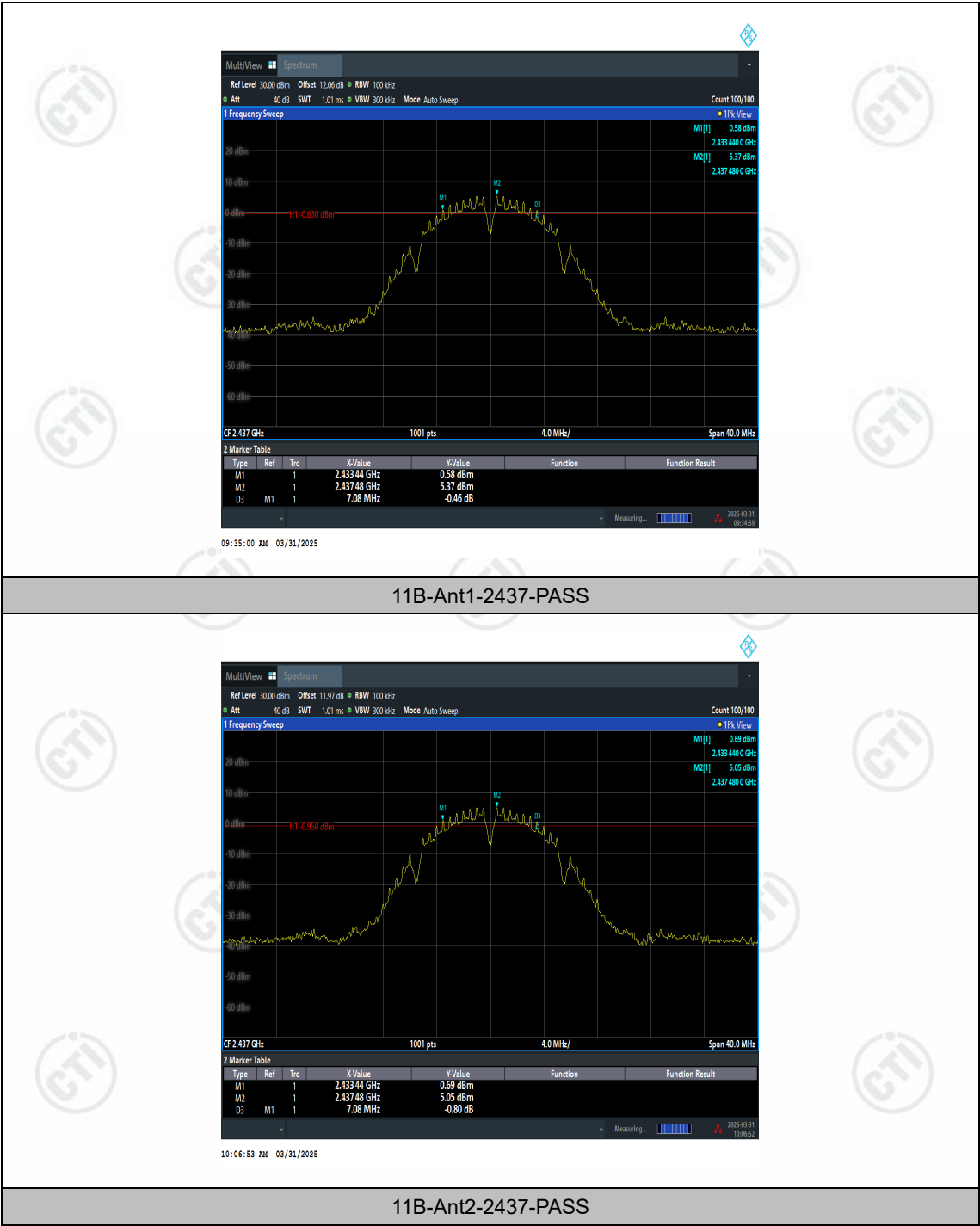
Appendix A: DTS Bandwidth

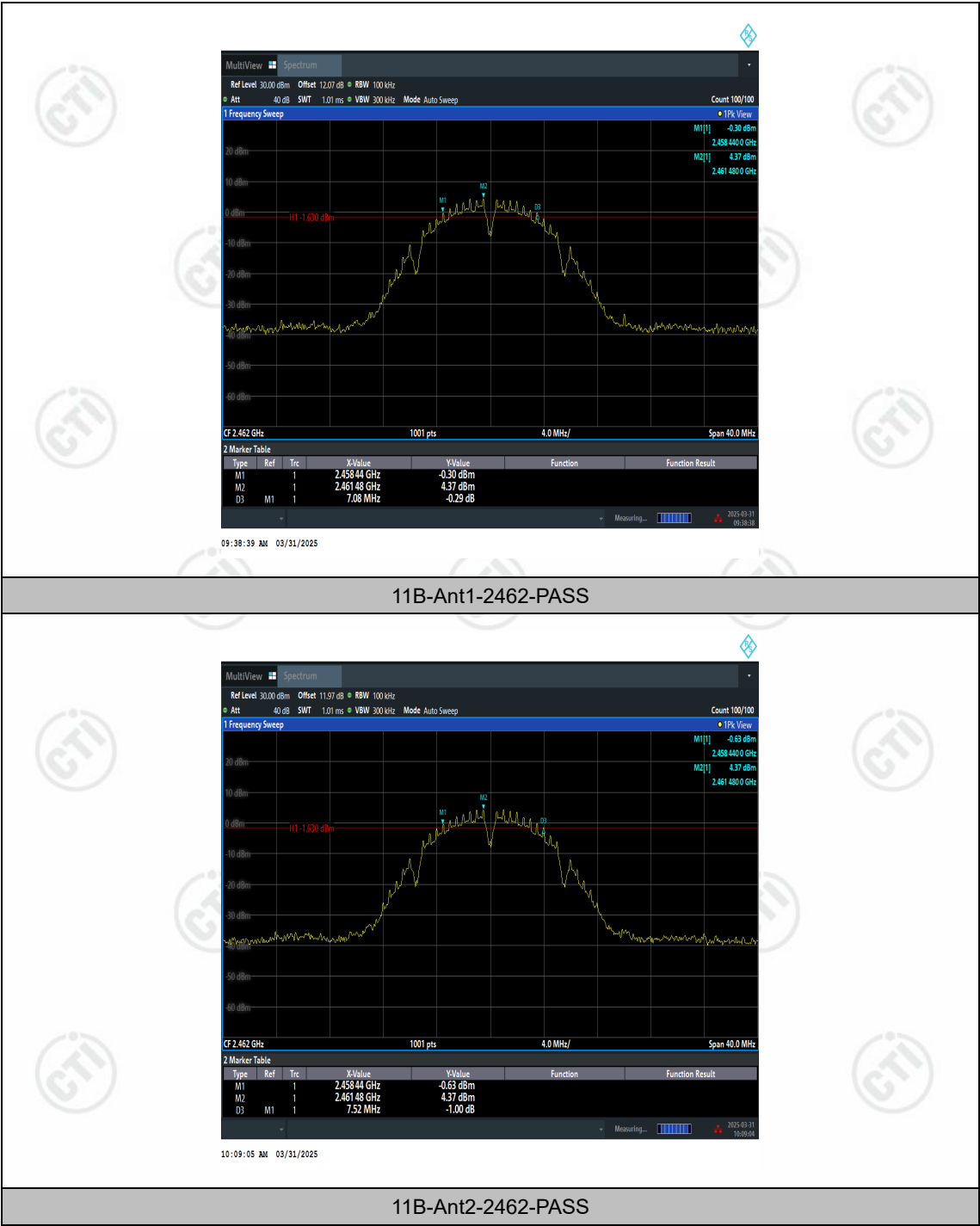
Test Result

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.08	2408.44	2415.52	0.5	PASS
11B	Ant2	2412	7.08	2408.44	2415.52	0.5	PASS
11B	Ant1	2437	7.08	2433.44	2440.52	0.5	PASS
11B	Ant2	2437	7.08	2433.44	2440.52	0.5	PASS
11B	Ant1	2462	7.08	2458.44	2465.52	0.5	PASS
11B	Ant2	2462	7.52	2458.44	2465.96	0.5	PASS
11G	Ant1	2412	16.36	2403.80	2420.16	0.5	PASS
11G	Ant2	2412	16.32	2403.80	2420.12	0.5	PASS
11G	Ant1	2437	16.32	2428.80	2445.12	0.5	PASS
11G	Ant2	2437	16.32	2428.80	2445.12	0.5	PASS
11G	Ant1	2462	16.32	2453.80	2470.12	0.5	PASS
11G	Ant2	2462	16.32	2453.80	2470.12	0.5	PASS
11N20MIMO	Ant1	2412	17.72	2403.12	2420.84	0.5	PASS
11N20MIMO	Ant2	2412	17.72	2403.12	2420.84	0.5	PASS
11N20MIMO	Ant1	2437	17.72	2428.12	2445.84	0.5	PASS
11N20MIMO	Ant2	2437	17.72	2428.12	2445.84	0.5	PASS
11N20MIMO	Ant1	2462	17.72	2453.12	2470.84	0.5	PASS
11N20MIMO	Ant2	2462	17.68	2453.12	2470.80	0.5	PASS

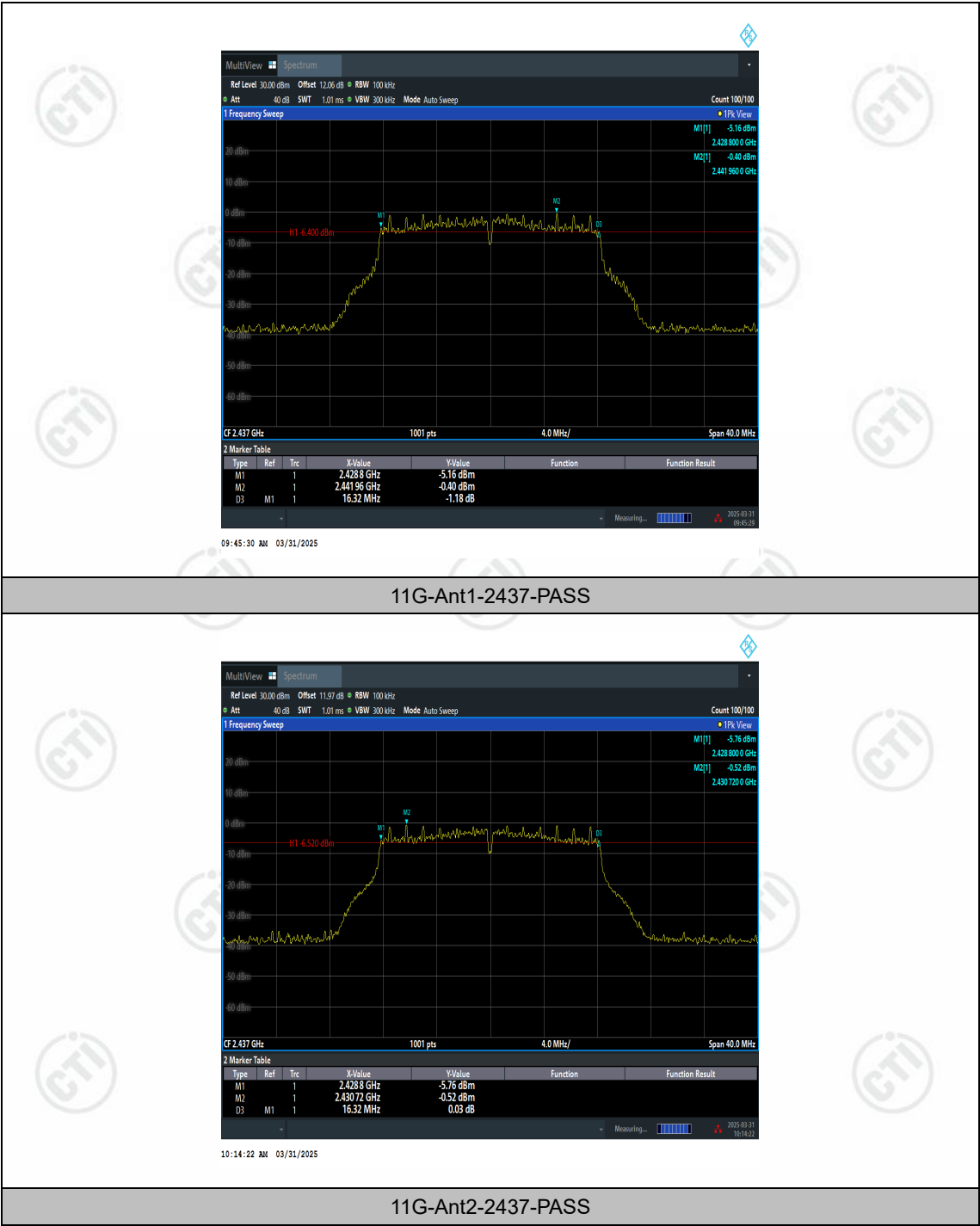
Test Graphs



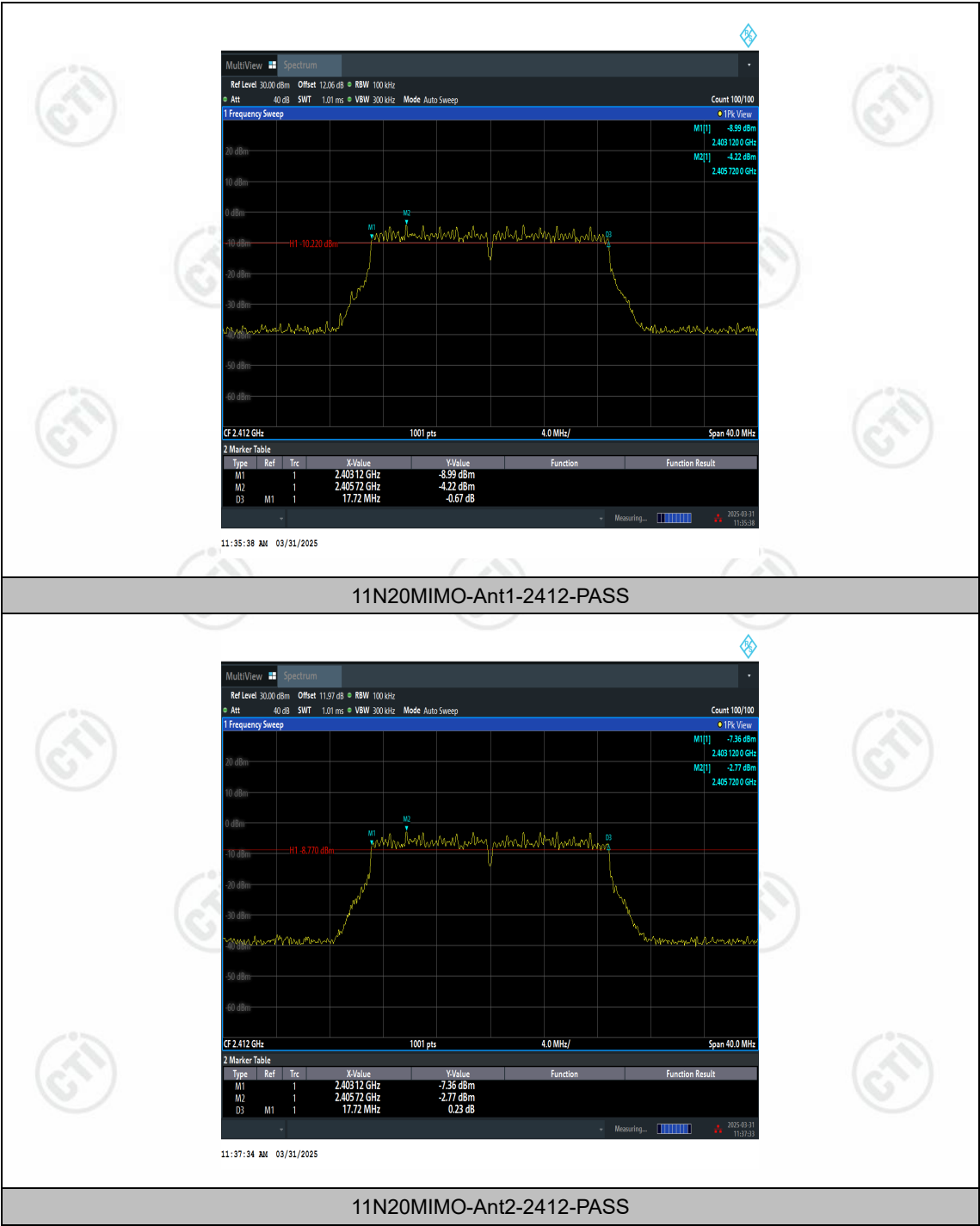


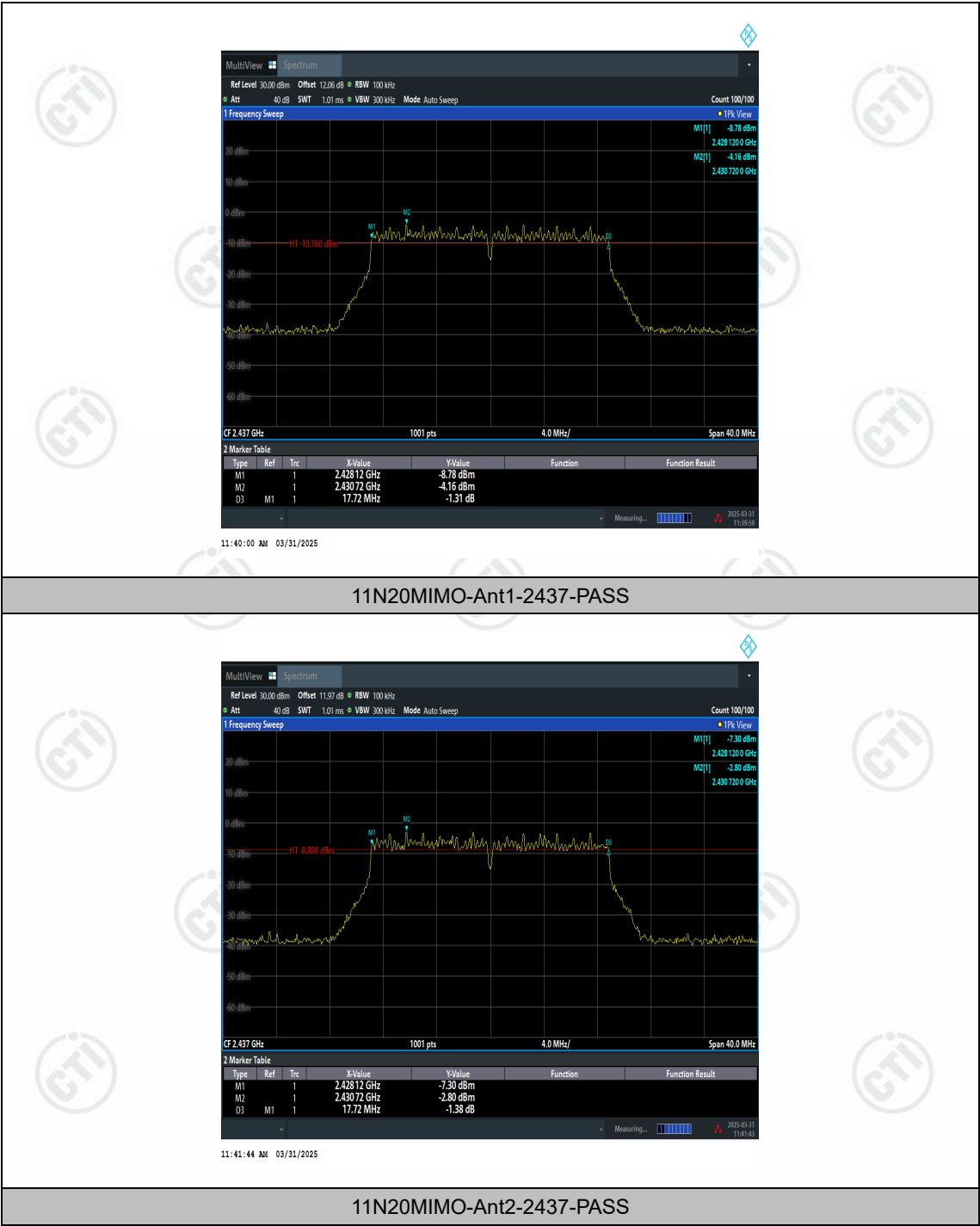


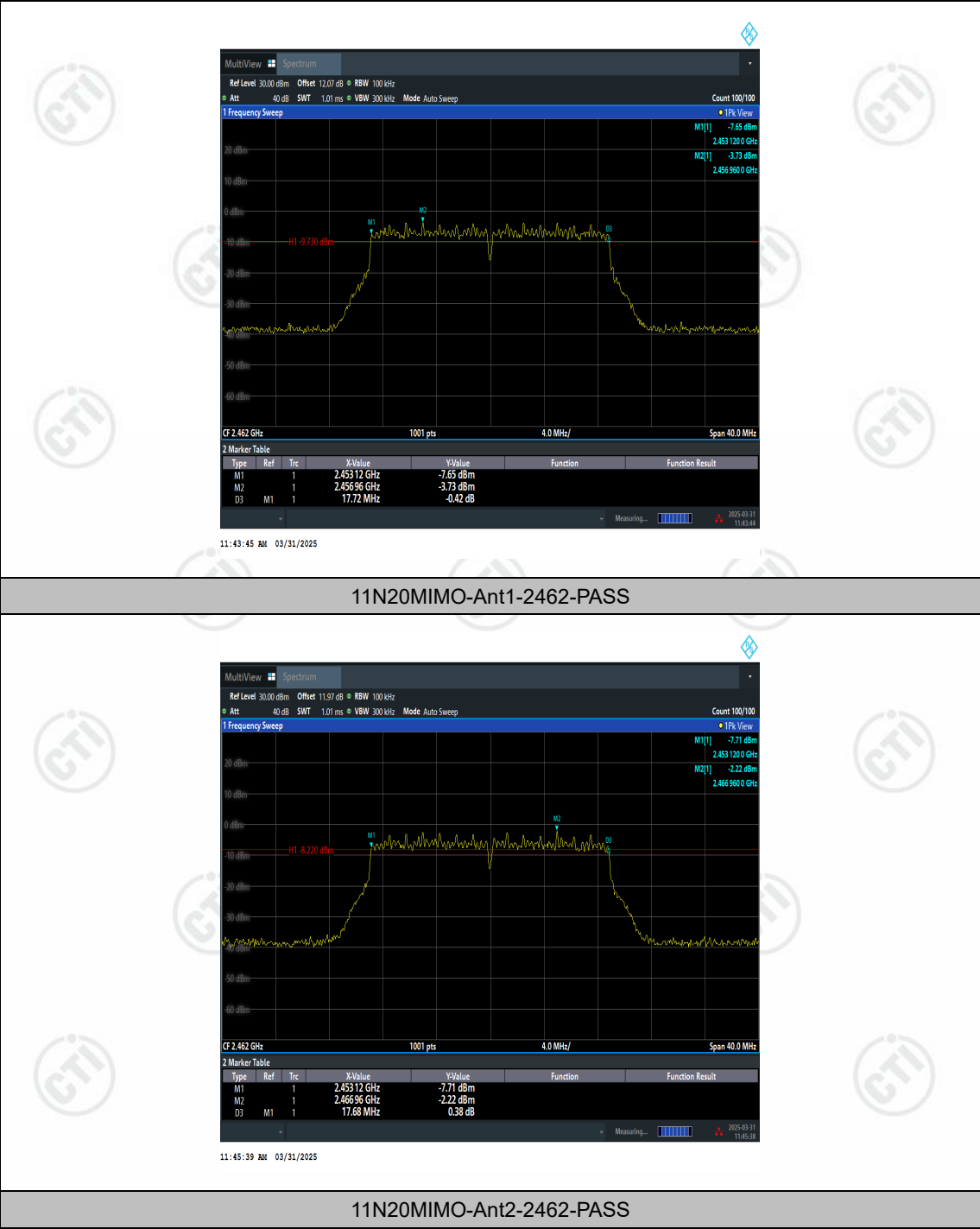










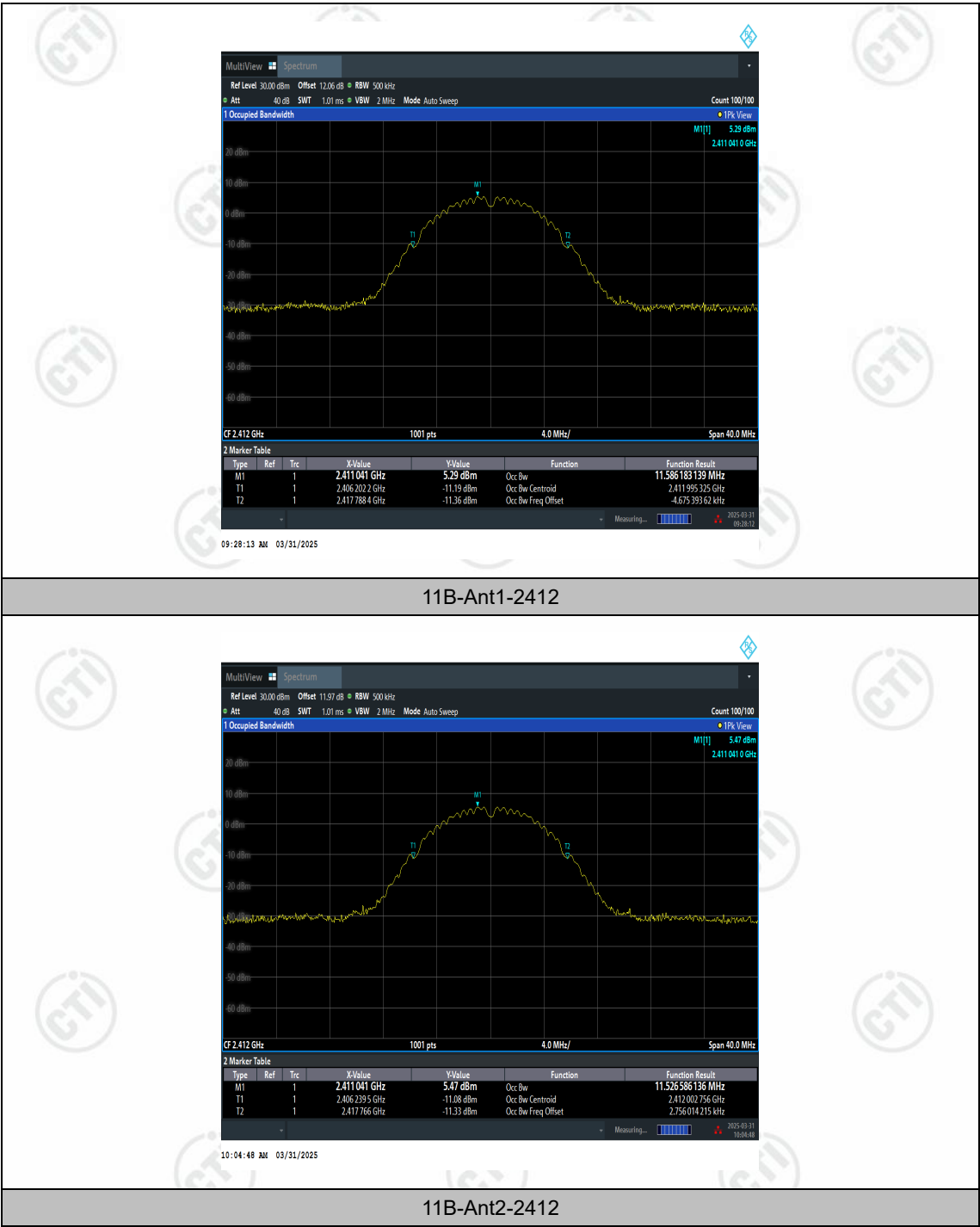


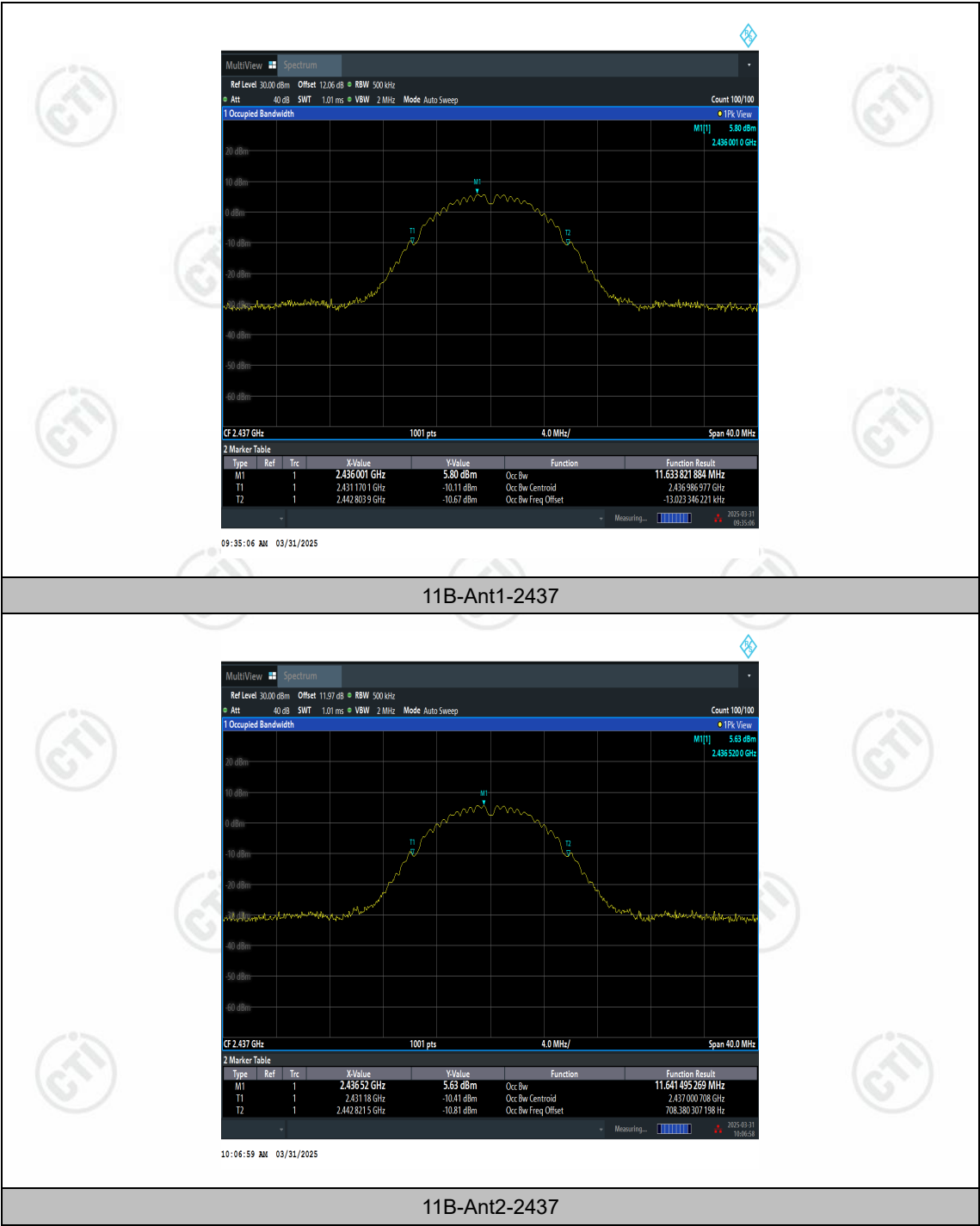
Appendix B: Occupied Channel Bandwidth

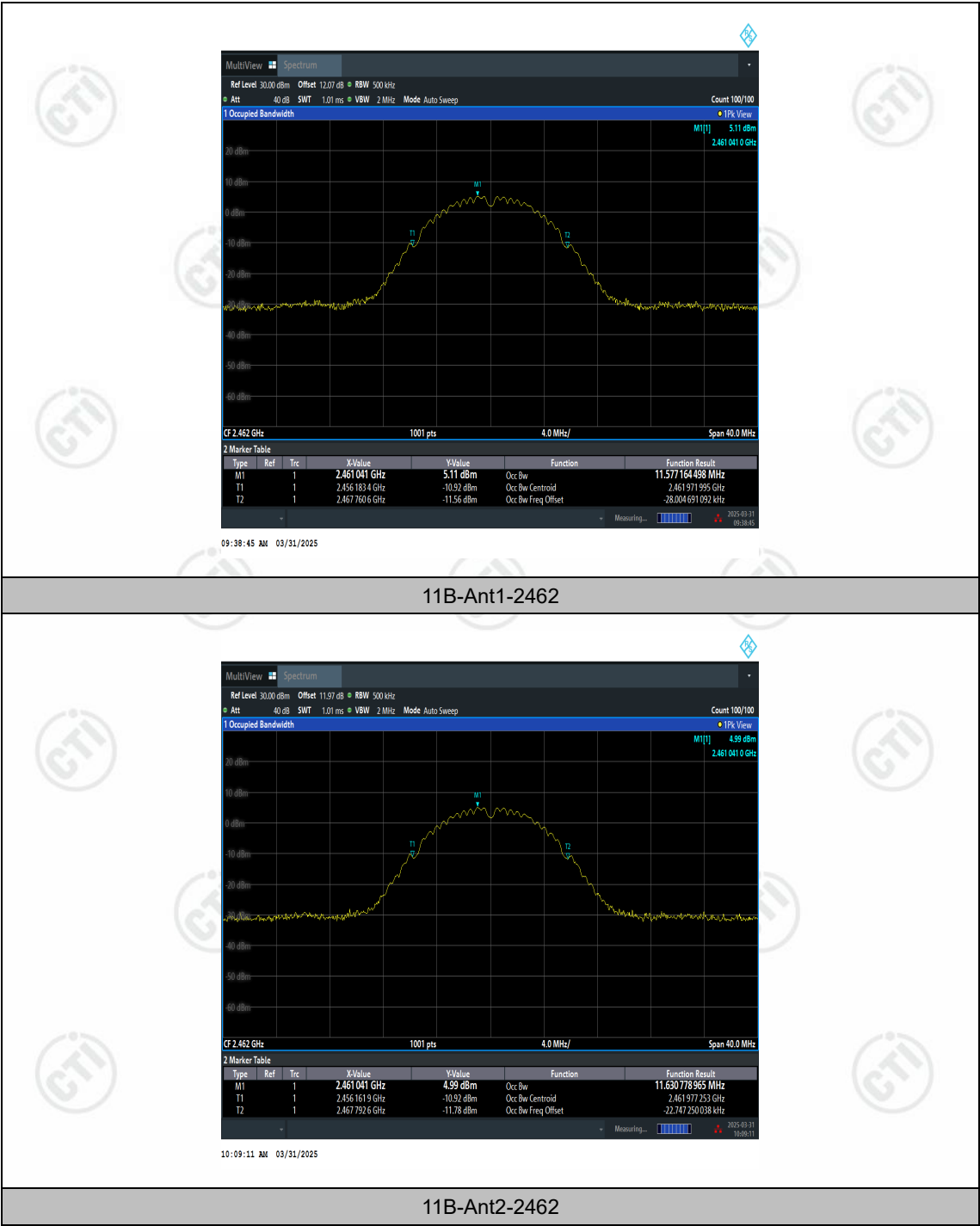
Test Result

TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.586	2406.2022	2417.7884	---	---
11B	Ant2	2412	11.527	2406.2395	2417.7660	---	---
11B	Ant1	2437	11.634	2431.1701	2442.8039	---	---
11B	Ant2	2437	11.641	2431.1800	2442.8215	---	---
11B	Ant1	2462	11.577	2456.1834	2467.7606	---	---
11B	Ant2	2462	11.631	2456.1619	2467.7926	---	---
11G	Ant1	2412	17.332	2403.4276	2420.7594	---	---
11G	Ant2	2412	17.708	2403.0619	2420.7702	---	---
11G	Ant1	2437	17.346	2428.3829	2445.7292	---	---
11G	Ant2	2437	17.728	2428.0576	2445.7857	---	---
11G	Ant1	2462	17.306	2453.4023	2470.7084	---	---
11G	Ant2	2462	17.698	2453.0784	2470.7761	---	---
11N20MIMO	Ant1	2412	18.494	2402.7534	2421.2476	---	---
11N20MIMO	Ant2	2412	18.49	2402.7061	2421.1962	---	---
11N20MIMO	Ant1	2437	18.478	2427.7299	2446.2078	---	---
11N20MIMO	Ant2	2437	18.436	2427.7441	2446.1805	---	---
11N20MIMO	Ant1	2462	18.421	2452.7685	2471.1894	---	---
11N20MIMO	Ant2	2462	18.392	2452.7674	2471.1599	---	---

Test Graphs

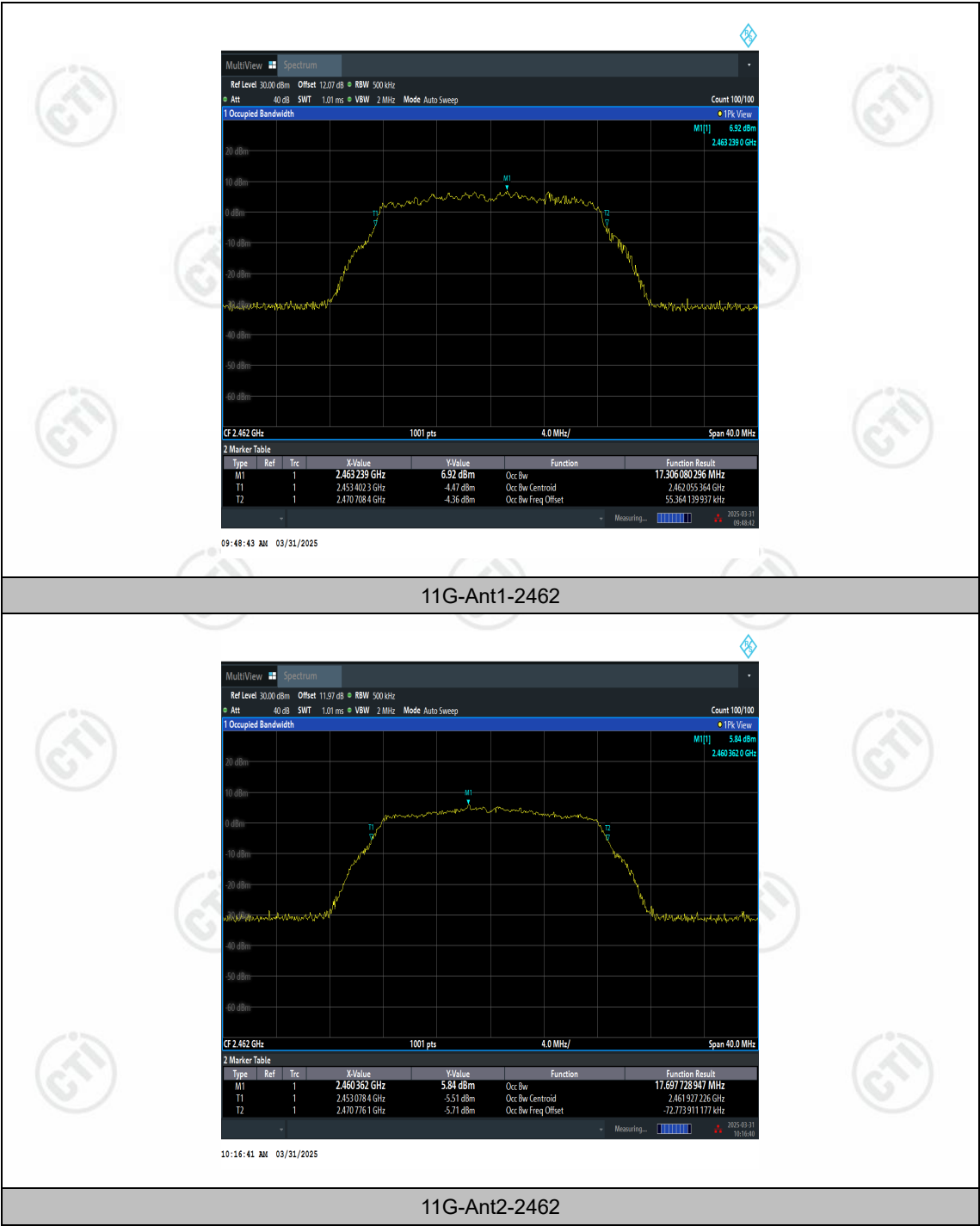






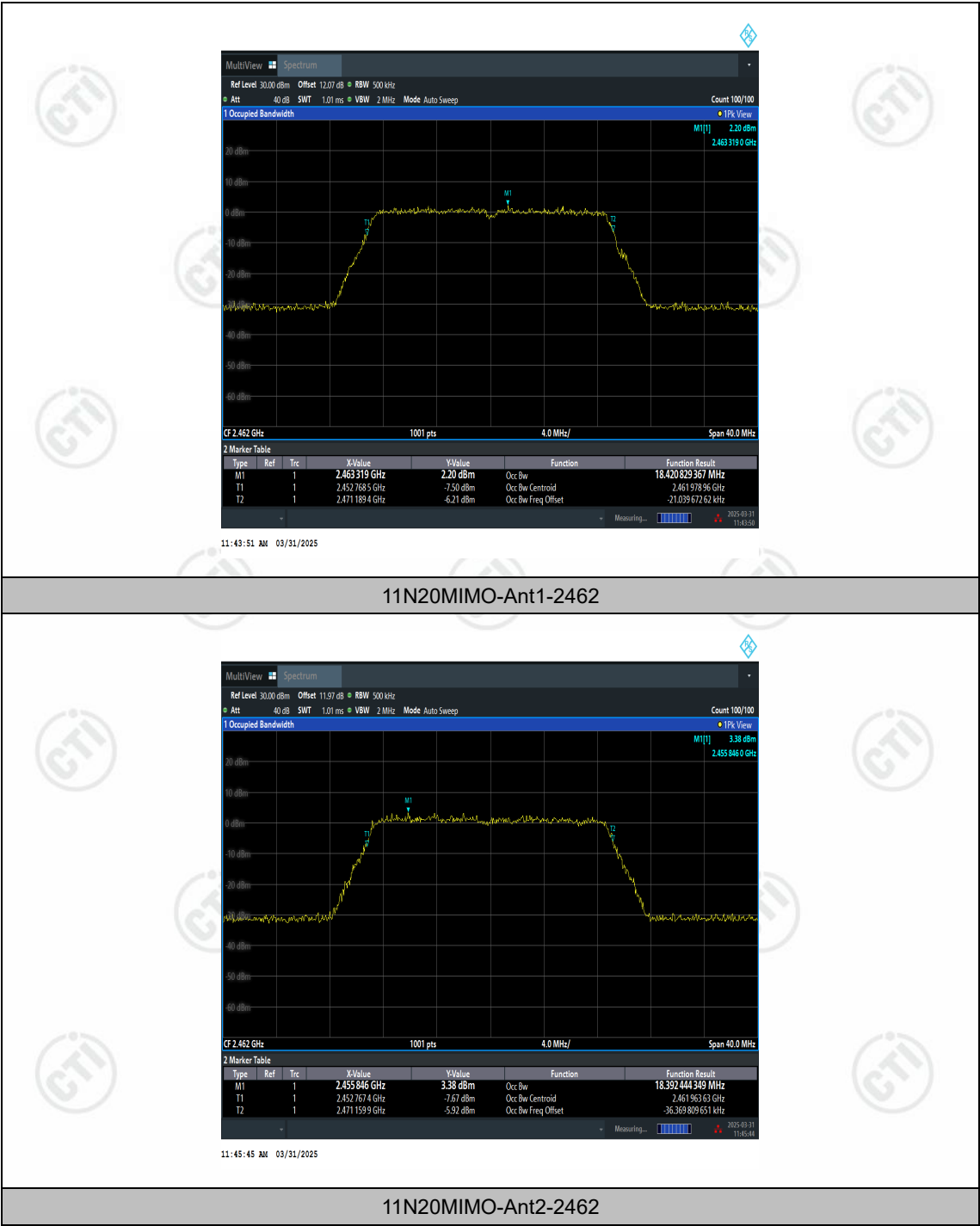












Appendix C: Maximum conducted output power

Test Result Peak

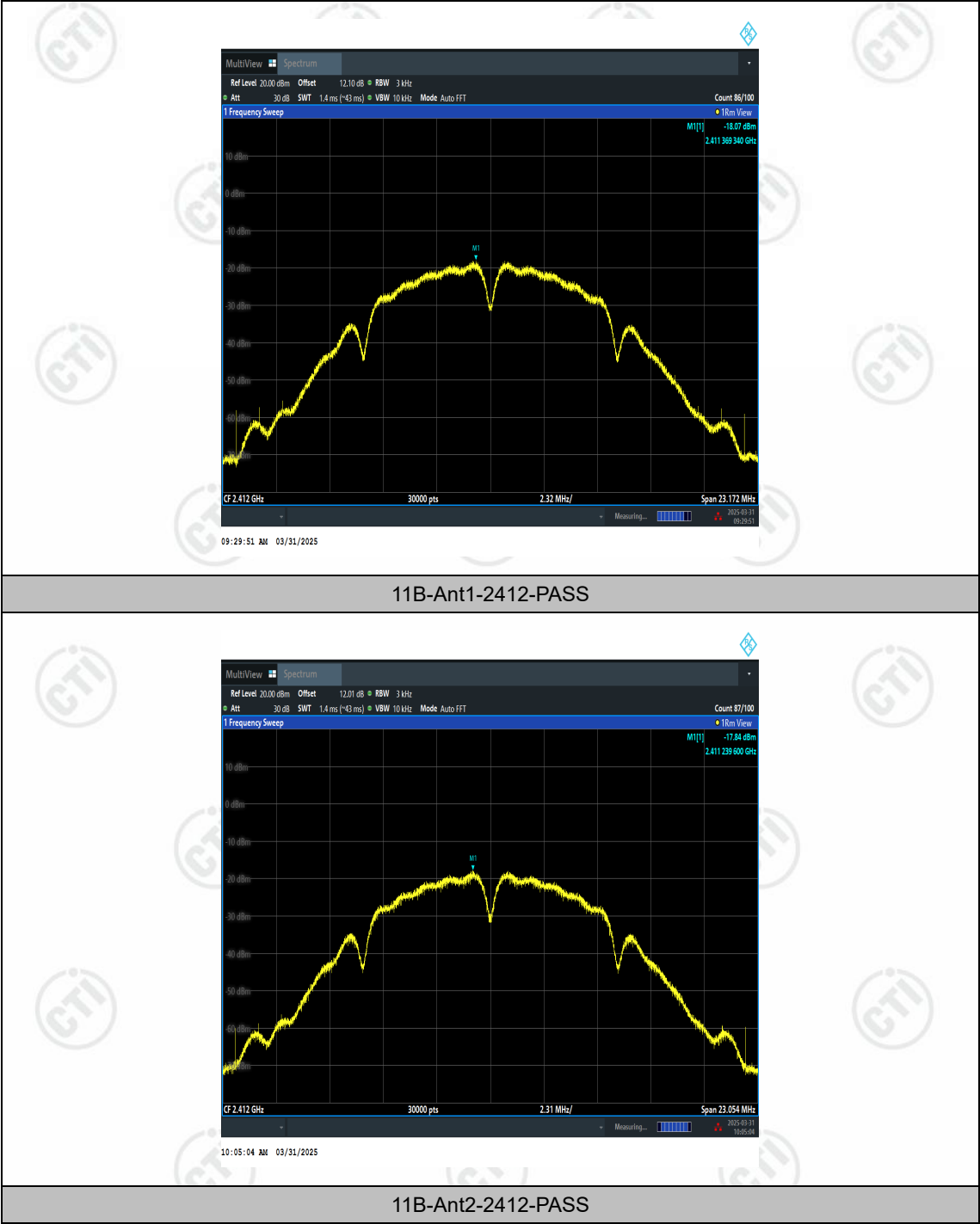
TestMode	Antenna	Frequency [MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	12.41	≤30.00	PASS
11B	Ant2	2412	---	12.61	≤30.00	PASS
11B	Ant1	2437	---	12.94	≤30.00	PASS
11B	Ant2	2437	---	12.98	≤30.00	PASS
11B	Ant1	2462	---	12.31	≤30.00	PASS
11B	Ant2	2462	---	12.14	≤30.00	PASS
11G	Ant1	2412	---	11.62	≤30.00	PASS
11G	Ant2	2412	---	11.68	≤30.00	PASS
11G	Ant1	2437	---	11.22	≤30.00	PASS
11G	Ant2	2437	---	11.20	≤30.00	PASS
11G	Ant1	2462	---	11.55	≤30.00	PASS
11G	Ant2	2462	---	11.34	≤30.00	PASS
11N20MIMO	Ant1	2412	---	7.39	≤30.00	PASS
11N20MIMO	Ant2	2412	---	8.68	≤30.00	PASS
11N20MIMO	total	2412	---	11.09	≤30.00	PASS
11N20MIMO	Ant1	2437	---	7.08	≤30.00	PASS
11N20MIMO	Ant2	2437	---	7.69	≤30.00	PASS
11N20MIMO	total	2437	---	10.41	≤30.00	PASS
11N20MIMO	Ant1	2462	---	7.89	≤30.00	PASS
11N20MIMO	Ant2	2462	---	8.26	≤30.00	PASS
11N20MIMO	total	2462	---	11.09	≤30.00	PASS

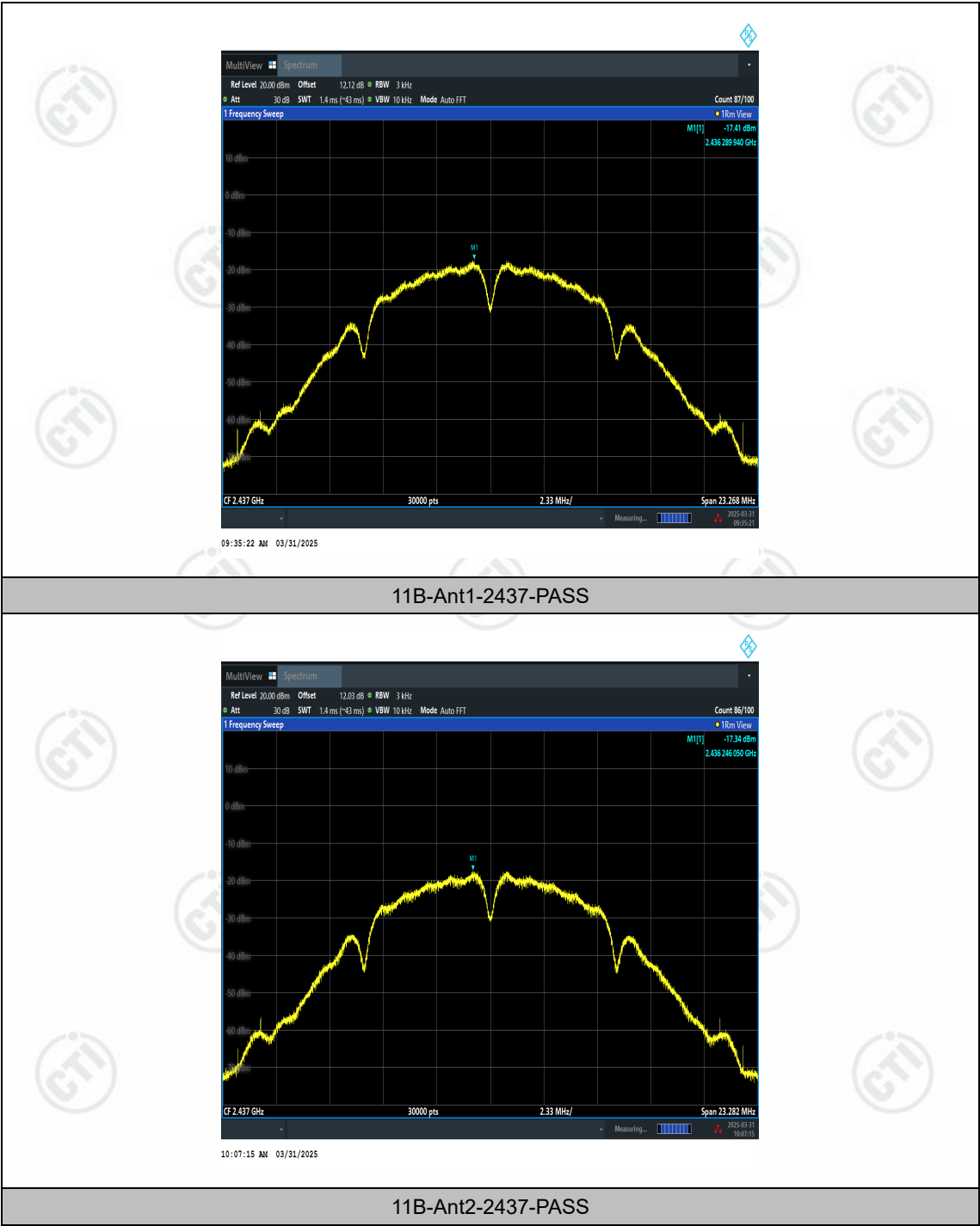
Appendix D: Maximum power spectral density

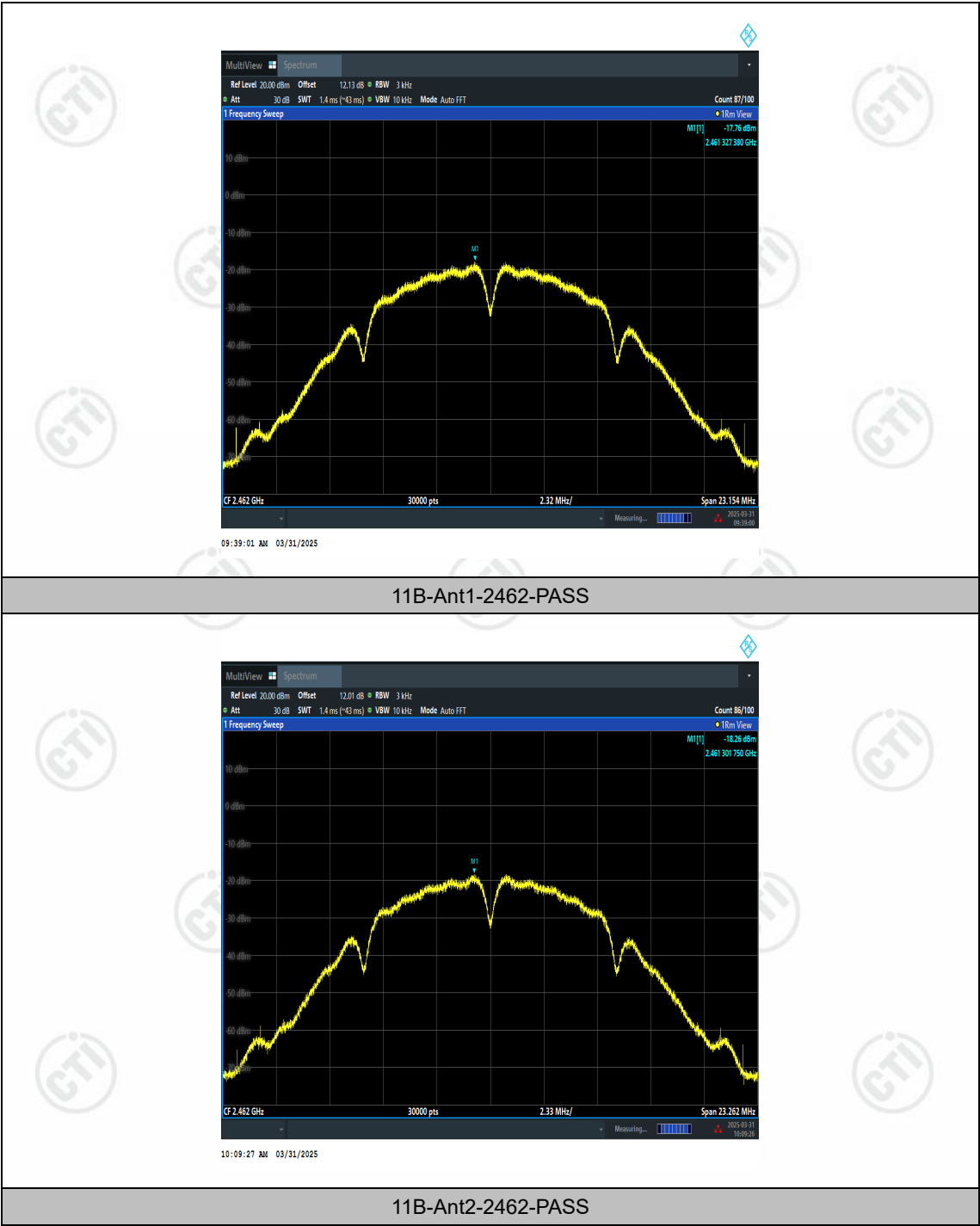
Test Result

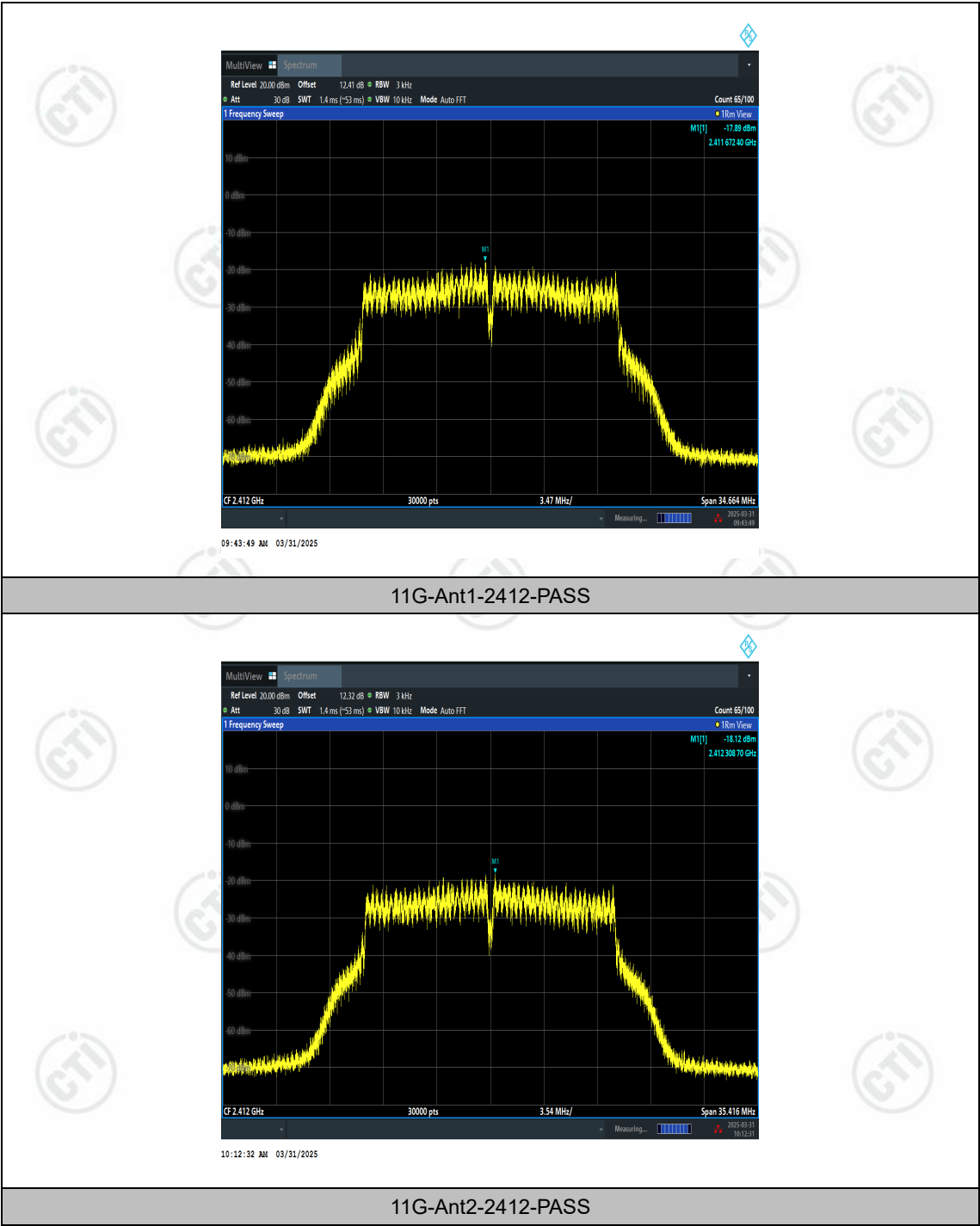
TestMode	Antenna	Frequency [MHz]	Result [dBm/3-100k Hz]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm/3-100 kHz]	Verdict
11B	Ant1	2412	-18.07	4.72	-13.35	≤8.00	PASS
11B	Ant2	2412	-17.84	4.39	-13.45	≤8.00	PASS
11B	Ant1	2437	-17.41	4.72	-12.69	≤8.00	PASS
11B	Ant2	2437	-17.34	4.39	-12.95	≤8.00	PASS
11B	Ant1	2462	-17.76	4.72	-13.04	≤8.00	PASS
11B	Ant2	2462	-18.26	4.39	-13.87	≤8.00	PASS
11G	Ant1	2412	-17.89	4.72	-13.17	≤8.00	PASS
11G	Ant2	2412	-18.12	4.39	-13.73	≤8.00	PASS
11G	Ant1	2437	-18.17	4.72	-13.45	≤8.00	PASS
11G	Ant2	2437	-18.61	4.39	-14.22	≤8.00	PASS
11G	Ant1	2462	-17.18	4.72	-12.46	≤8.00	PASS
11G	Ant2	2462	-18.12	4.39	-13.73	≤8.00	PASS
11N20MIMO	Ant1	2412	-22.77	4.72	-18.05	≤8.00	PASS
11N20MIMO	Ant2	2412	-21.02	4.39	-16.63	≤8.00	PASS
11N20MIMO	total	2412	-18.80	---	-14.27	≤8.00	PASS
11N20MIMO	Ant1	2437	-23.06	4.72	-18.34	≤8.00	PASS
11N20MIMO	Ant2	2437	-22.15	4.39	-17.76	≤8.00	PASS
11N20MIMO	total	2437	-19.57	---	-15.03	≤8.00	PASS
11N20MIMO	Ant1	2462	-22.24	4.72	-17.52	≤8.00	PASS
11N20MIMO	Ant2	2462	-21.72	4.39	-17.33	≤8.00	PASS
11N20MIMO	total	2462	-18.96	---	-14.41	≤8.00	PASS

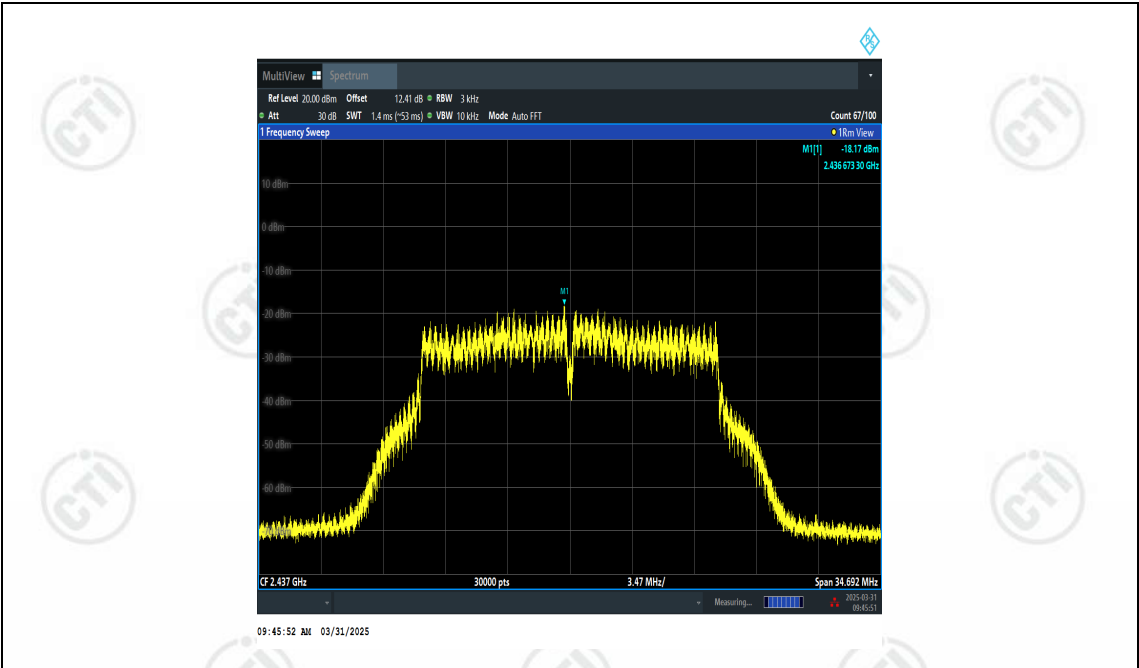
Test Graphs



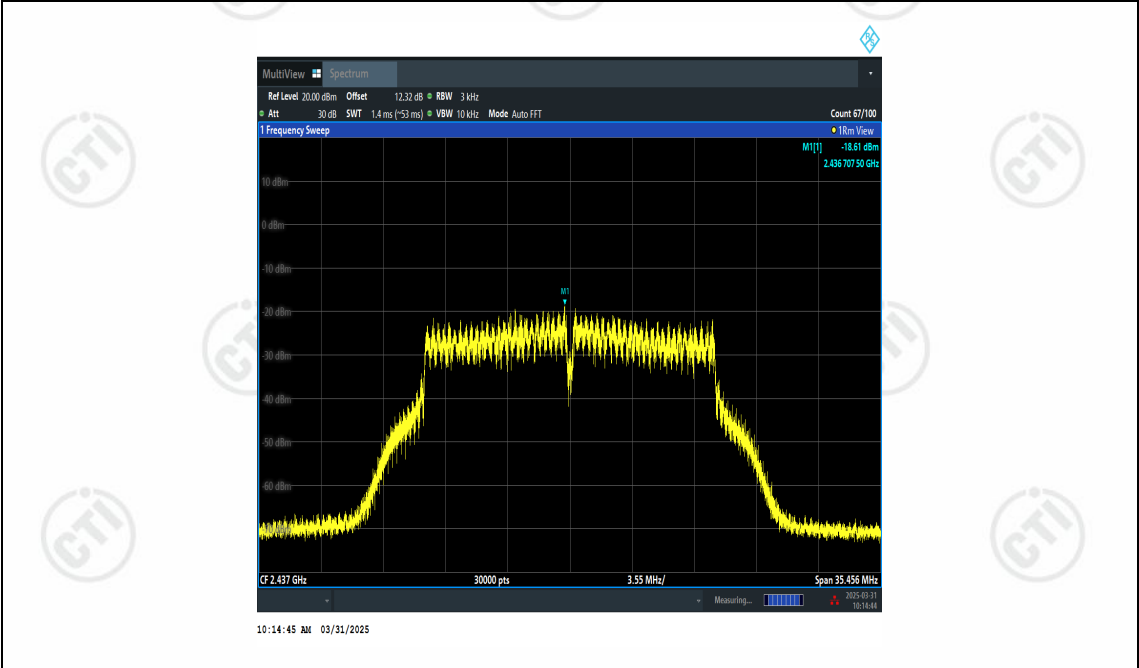




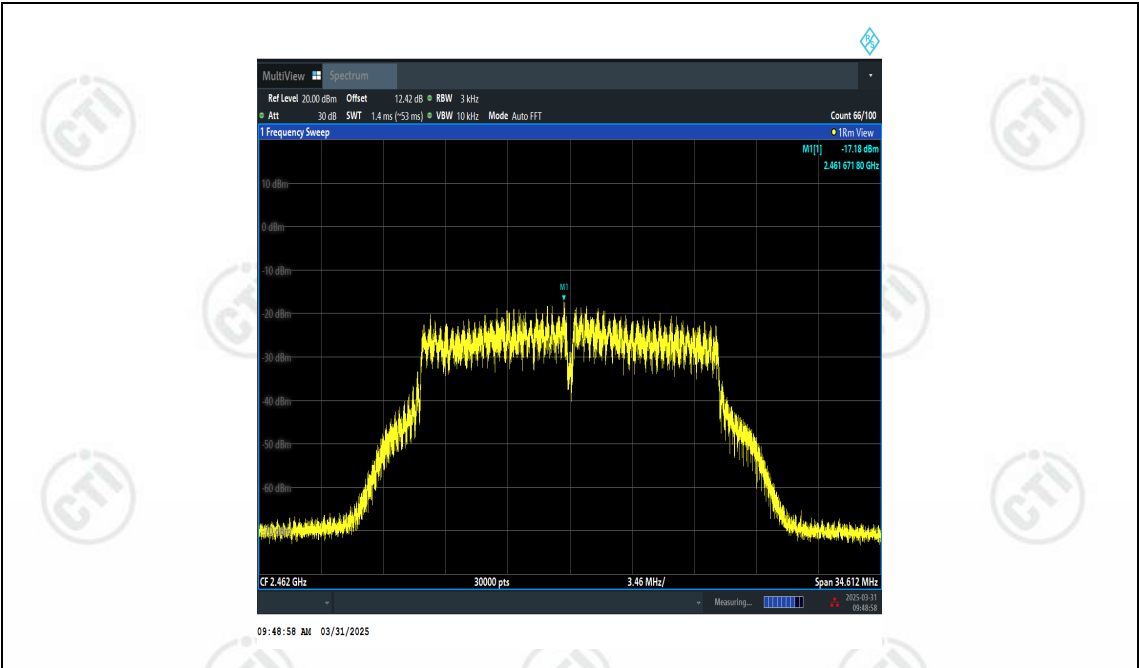




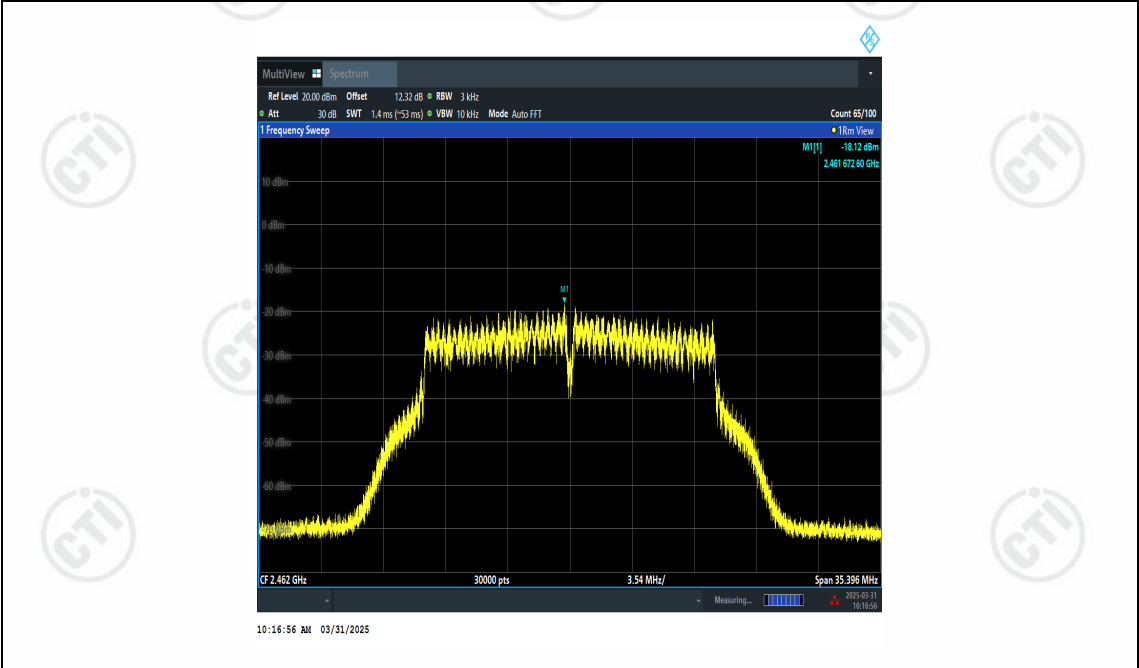
11G-Ant1-2437-PASS



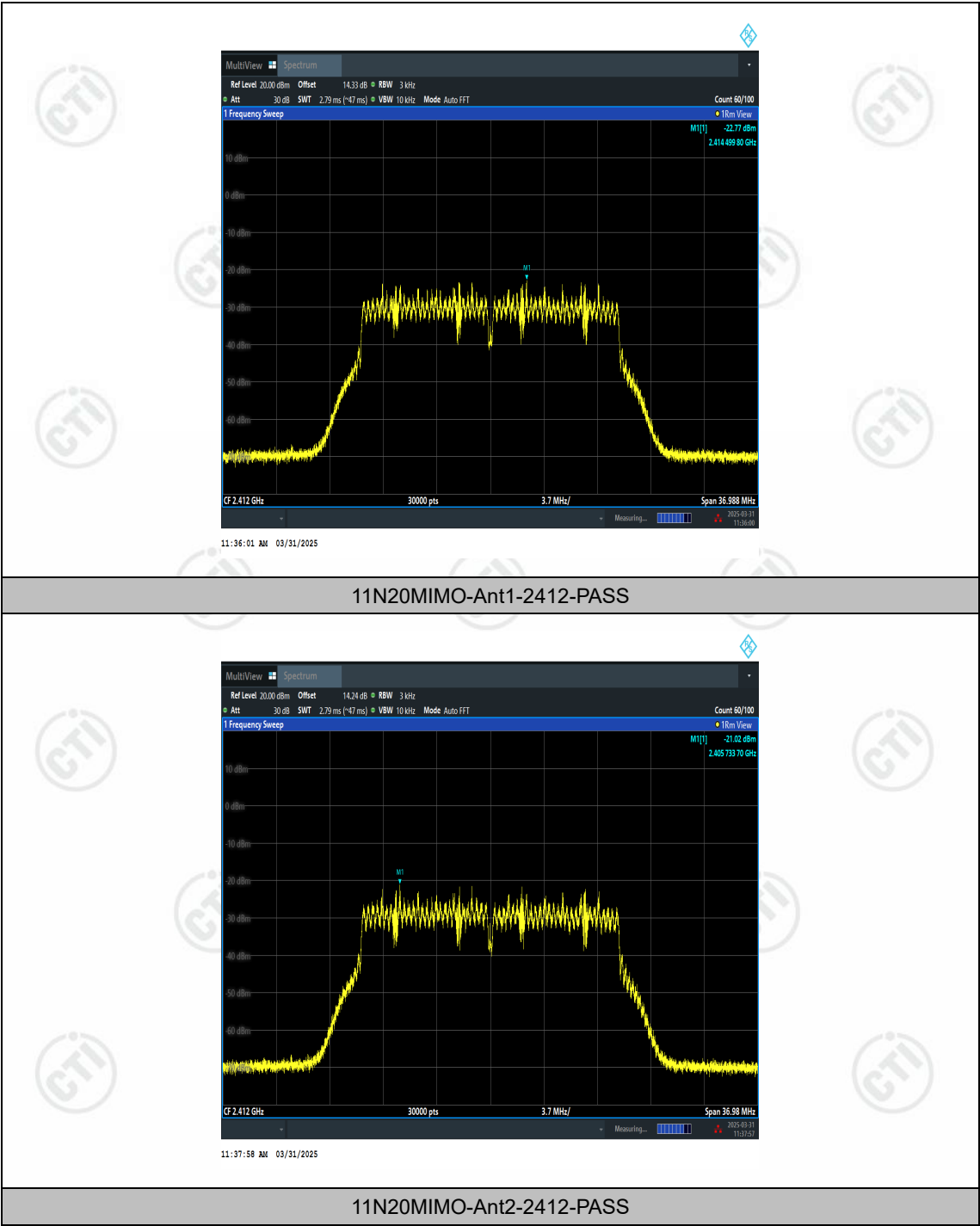
11G-Ant2-2437-PASS

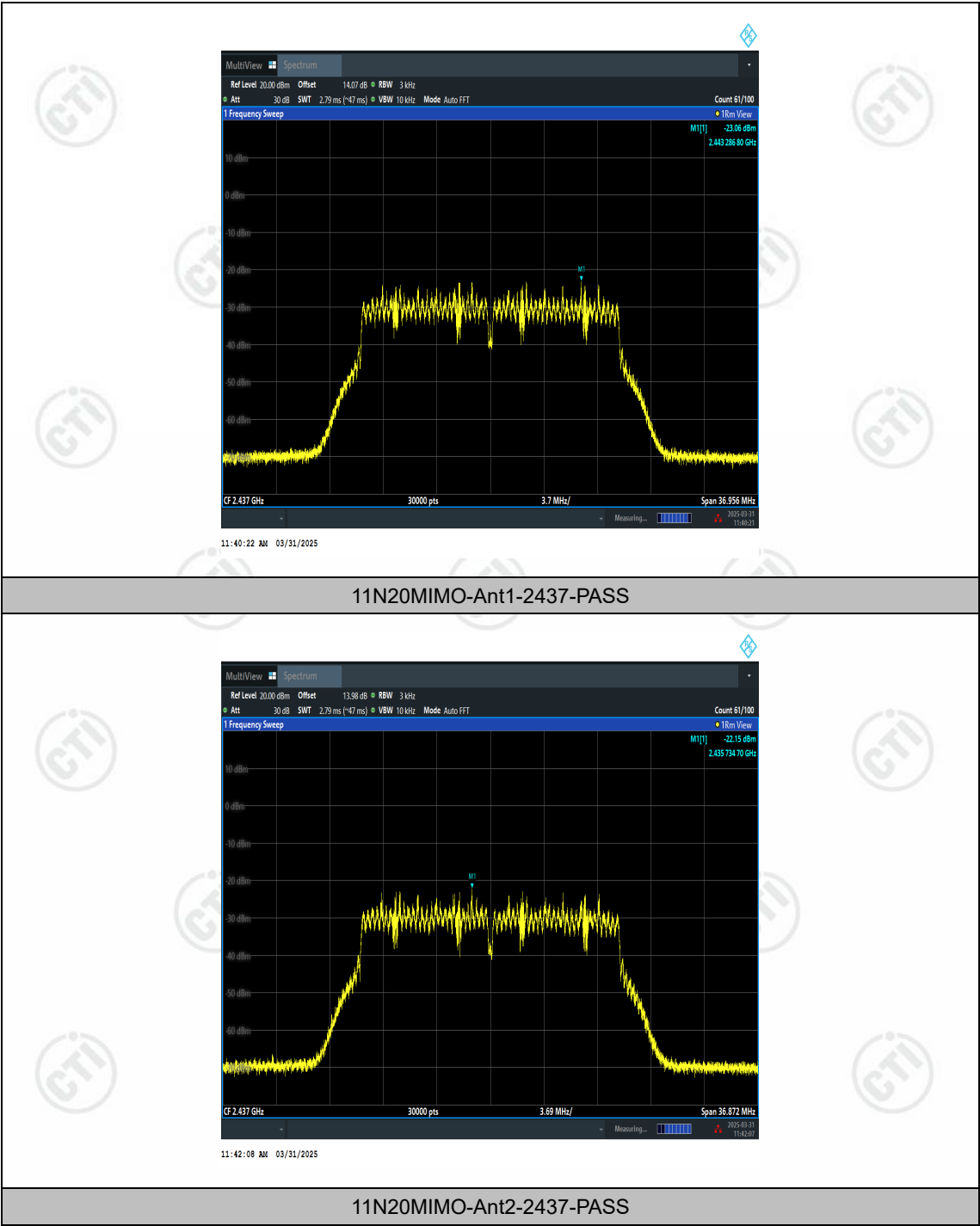


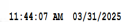
11G-Ant1-2462-PASS



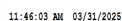
11G-Ant2-2462-PASS







11N20MIMO-Ant2-2462-PASS



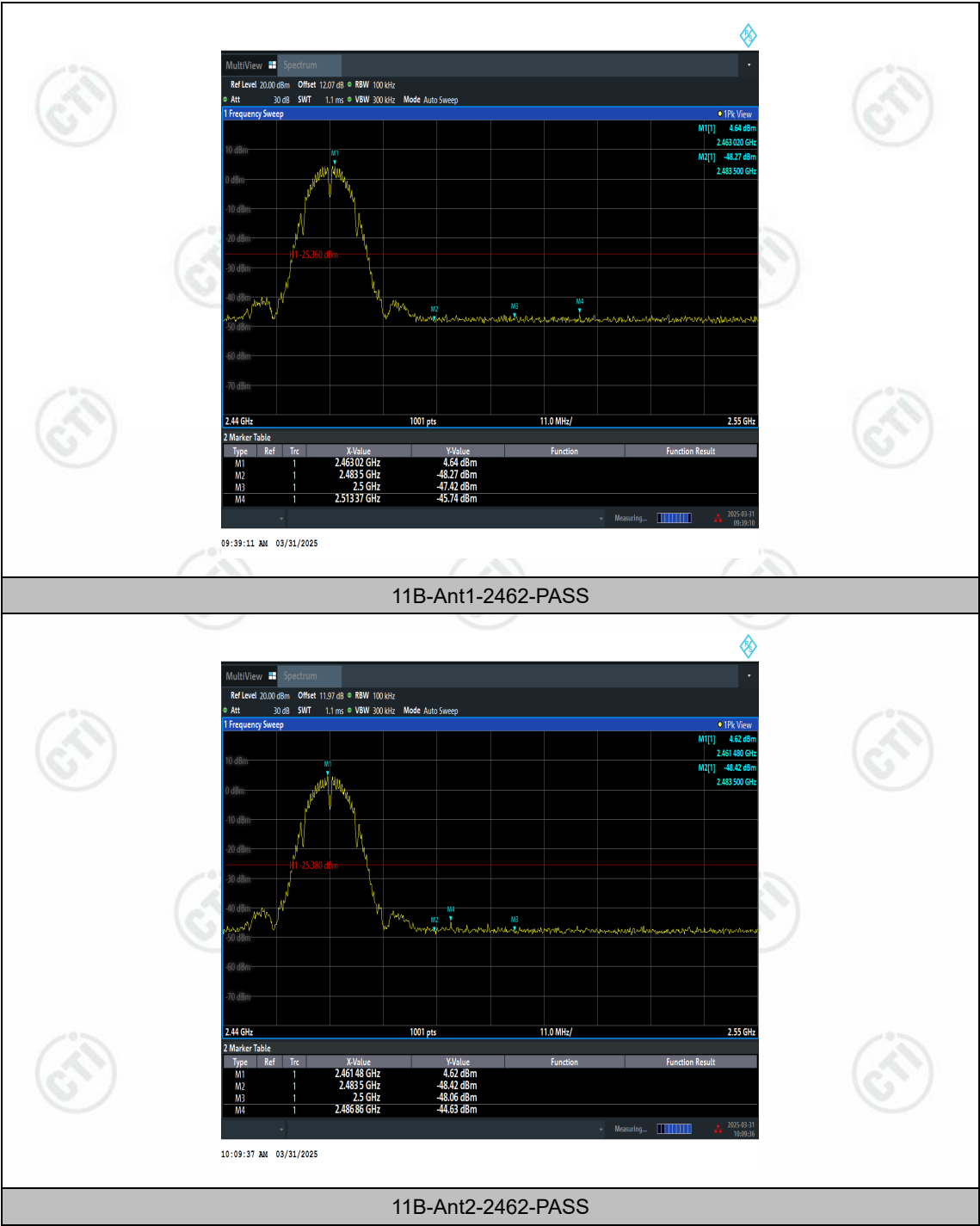
Appendix E: Band edge measurements

Test Result

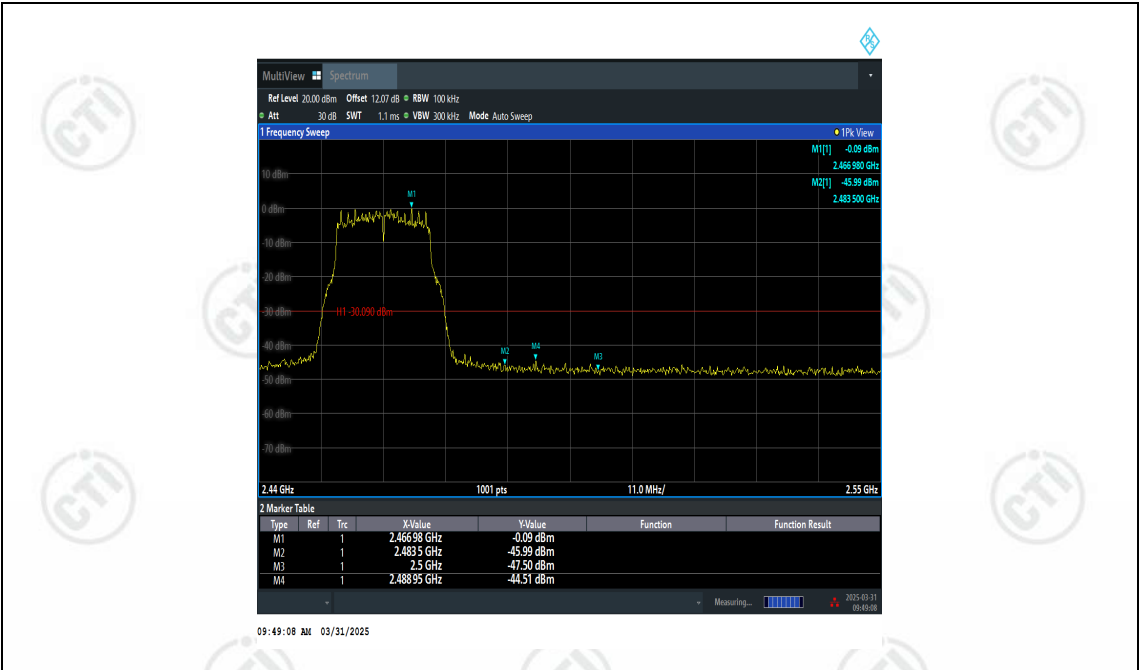
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	4.50	-40.13	≤-25.5	PASS
11B	Ant2	Low	2412	4.95	-40.74	≤-25.05	PASS
11B	Ant1	High	2462	4.64	-45.74	≤-25.36	PASS
11B	Ant2	High	2462	4.62	-44.63	≤-25.38	PASS
11G	Ant1	Low	2412	-0.01	-42.29	≤-30.01	PASS
11G	Ant2	Low	2412	-0.05	-39.93	≤-30.05	PASS
11G	Ant1	High	2462	-0.09	-44.51	≤-30.09	PASS
11G	Ant2	High	2462	-0.43	-45.41	≤-30.43	PASS
11N20MIMO	Ant1	Low	2412	-4.20	-44.39	≤-34.2	PASS
11N20MIMO	Ant2	Low	2412	-2.74	-44.25	≤-32.74	PASS
11N20MIMO	Ant1	High	2462	-3.54	-45.92	≤-33.54	PASS
11N20MIMO	Ant2	High	2462	-2.32	-45.14	≤-32.32	PASS

Test Graphs

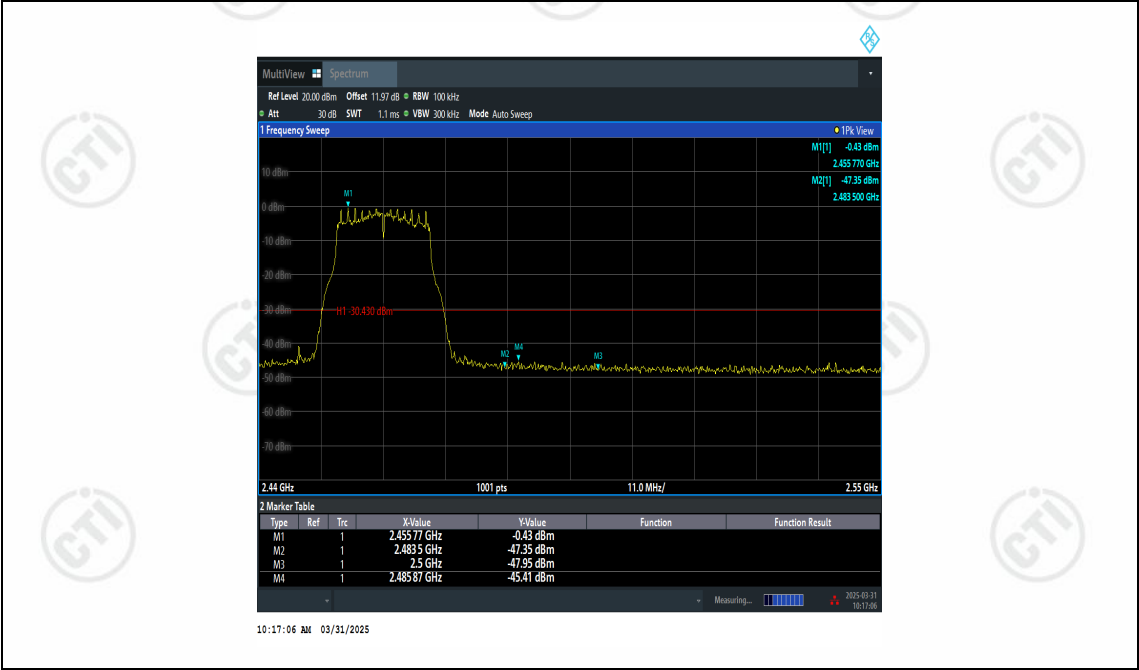




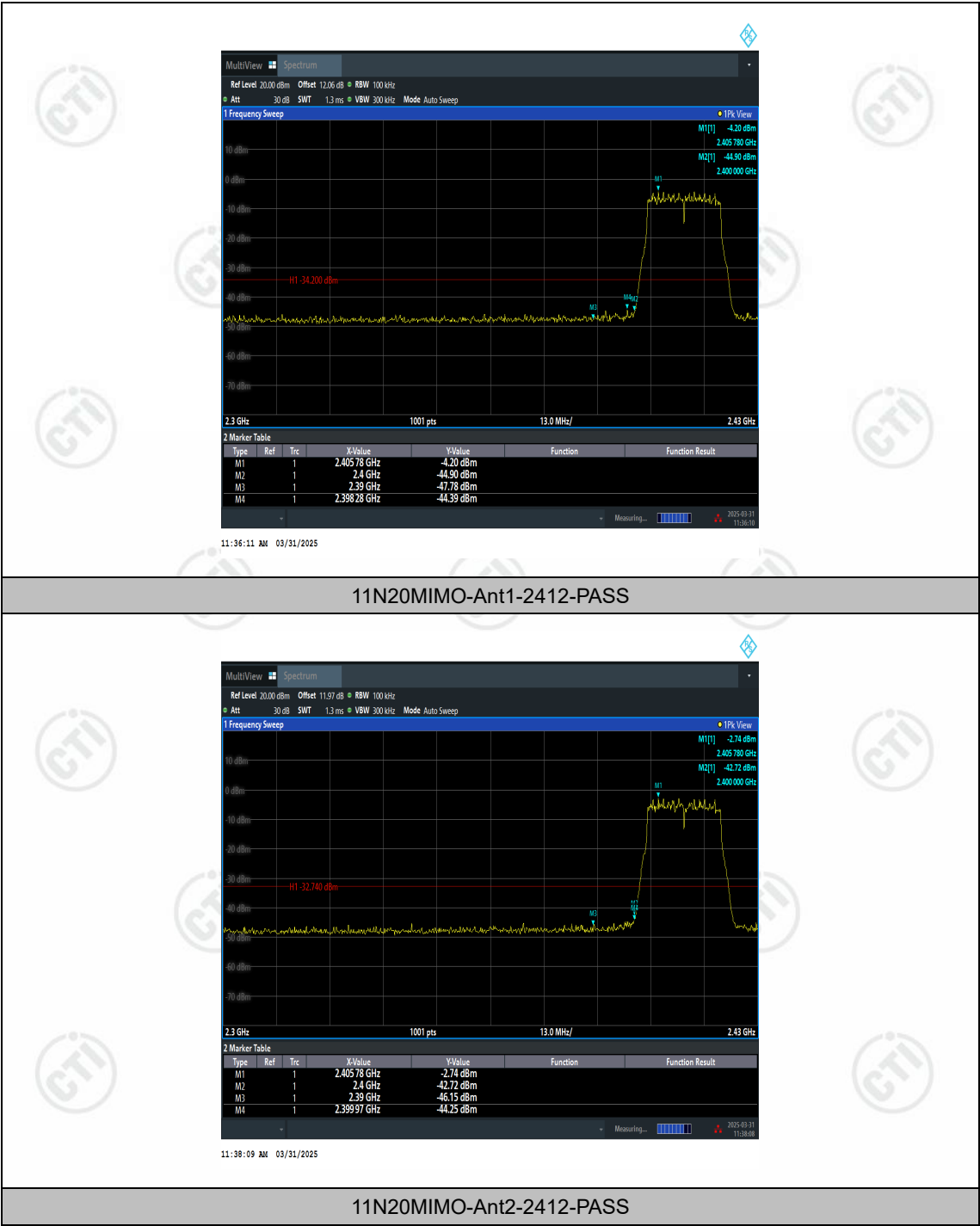


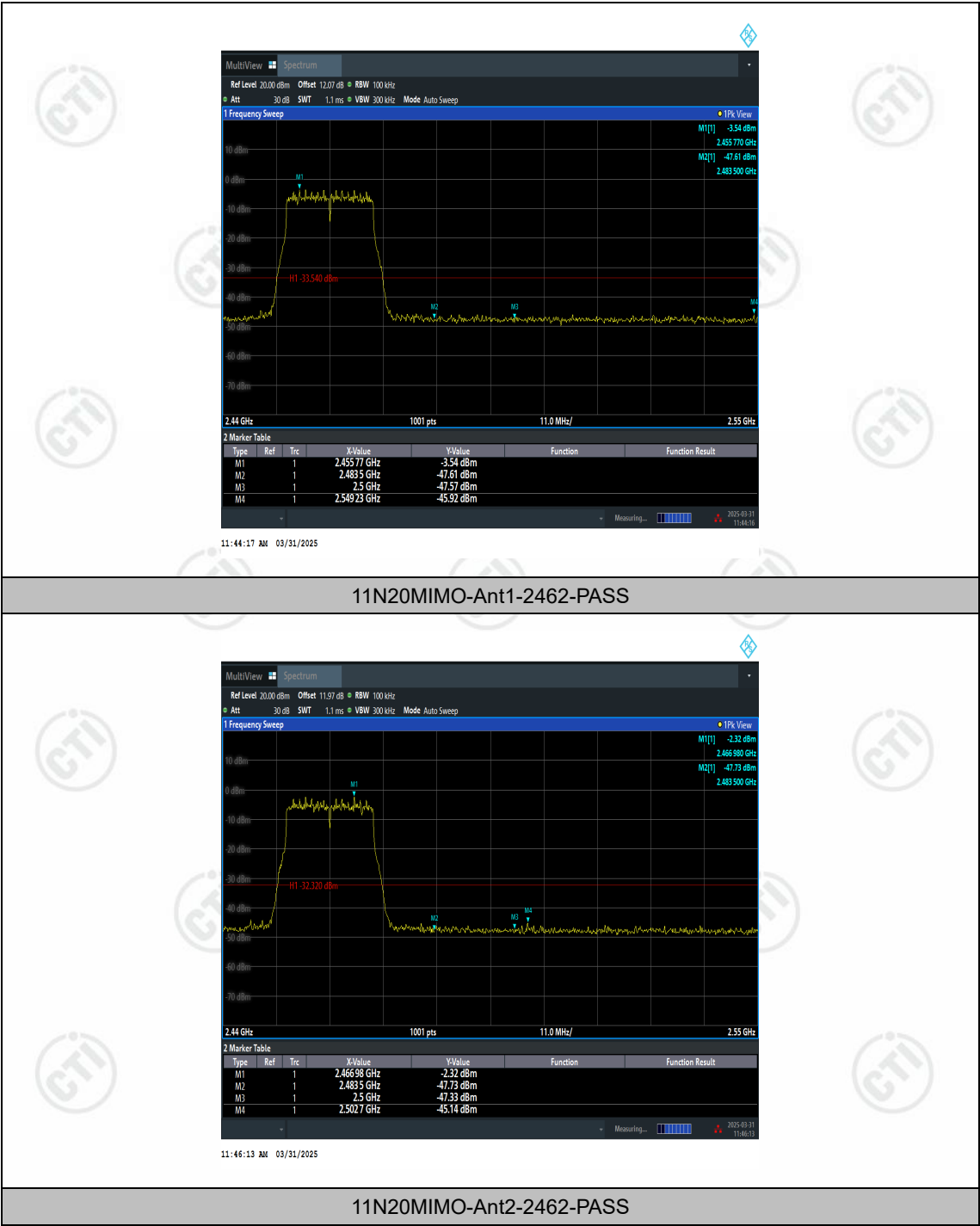


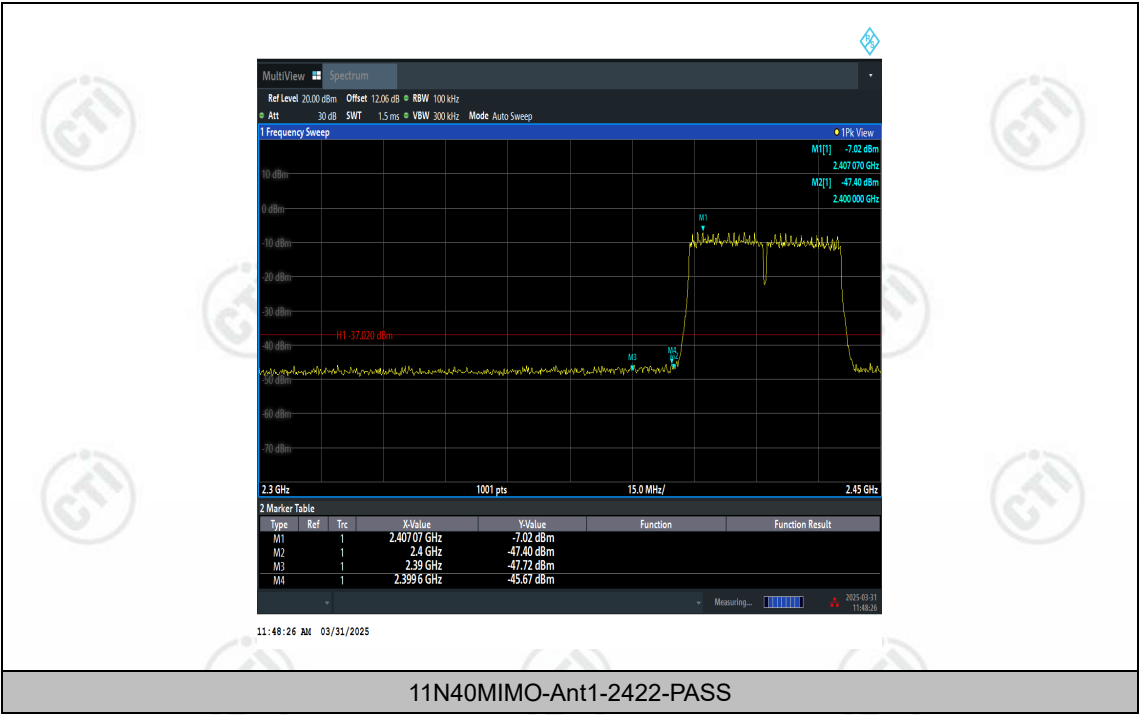
11G-Ant1-2462-PASS



11G-Ant2-2462-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	4.78	4.78	---	PASS
11B	Ant2	2412	0~Reference	4.81	4.81	---	PASS
11B	Ant1	2412	30~1000	4.78	-44.11	≤-25.22	PASS
11B	Ant2	2412	30~1000	4.81	-43.5	≤-25.19	PASS
11B	Ant1	2412	1000~26500	4.78	-34.89	≤-25.22	PASS
11B	Ant2	2412	1000~26500	4.81	-35.3	≤-25.19	PASS
11B	Ant1	2437	0~Reference	5.43	5.43	---	PASS
11B	Ant2	2437	0~Reference	5.49	5.49	---	PASS
11B	Ant1	2437	30~1000	5.43	-44.8	≤-24.57	PASS
11B	Ant2	2437	30~1000	5.49	-45.18	≤-24.51	PASS
11B	Ant1	2437	1000~26500	5.43	-34.89	≤-24.57	PASS
11B	Ant2	2437	1000~26500	5.49	-35.07	≤-24.51	PASS
11B	Ant1	2462	0~Reference	4.87	4.87	---	PASS
11B	Ant2	2462	0~Reference	4.38	4.38	---	PASS
11B	Ant1	2462	30~1000	4.87	-44.97	≤-25.13	PASS
11B	Ant2	2462	30~1000	4.38	-45.03	≤-25.62	PASS
11B	Ant1	2462	1000~26500	4.87	-34.57	≤-25.13	PASS
11B	Ant2	2462	1000~26500	4.38	-35.27	≤-25.62	PASS
11G	Ant1	2412	0~Reference	-0.09	-0.09	---	PASS
11G	Ant2	2412	0~Reference	-0.13	-0.13	---	PASS
11G	Ant1	2412	30~1000	-0.09	-45	≤-30.09	PASS
11G	Ant2	2412	30~1000	-0.13	-45.06	≤-30.13	PASS
11G	Ant1	2412	1000~26500	-0.09	-34.47	≤-30.09	PASS
11G	Ant2	2412	1000~26500	-0.13	-35.04	≤-30.13	PASS
11G	Ant1	2437	0~Reference	-0.29	-0.29	---	PASS
11G	Ant2	2437	0~Reference	-0.60	-0.60	---	PASS
11G	Ant1	2437	30~1000	-0.29	-45.07	≤-30.29	PASS
11G	Ant2	2437	30~1000	-0.60	-44.04	≤-30.6	PASS
11G	Ant1	2437	1000~26500	-0.29	-34.96	≤-30.29	PASS
11G	Ant2	2437	1000~26500	-0.60	-34.37	≤-30.6	PASS
11G	Ant1	2462	0~Reference	0.10	0.10	---	PASS
11G	Ant2	2462	0~Reference	-0.45	-0.45	---	PASS
11G	Ant1	2462	30~1000	0.10	-44.35	≤-29.9	PASS
11G	Ant2	2462	30~1000	-0.45	-44.48	≤-30.45	PASS
11G	Ant1	2462	1000~26500	0.10	-34.67	≤-29.9	PASS
11G	Ant2	2462	1000~26500	-0.45	-35.08	≤-30.45	PASS

11N20MIMO	Ant1	2412	0~Reference	-4.21	-4.21	---	PASS
11N20MIMO	Ant2	2412	0~Reference	-2.72	-2.72	---	PASS
11N20MIMO	Ant1	2412	30~1000	-4.21	-53.42	≤ -34.21	PASS
11N20MIMO	Ant2	2412	30~1000	-2.72	-54.64	≤ -32.72	PASS
11N20MIMO	Ant1	2412	1000~26500	-4.21	-44.48	≤ -34.21	PASS
11N20MIMO	Ant2	2412	1000~26500	-2.72	-45.4	≤ -32.72	PASS
11N20MIMO	Ant1	2437	0~Reference	-4.11	-4.11	---	PASS
11N20MIMO	Ant2	2437	0~Reference	-2.80	-2.80	---	PASS
11N20MIMO	Ant1	2437	30~1000	-4.11	-54.88	≤ -34.11	PASS
11N20MIMO	Ant2	2437	30~1000	-2.80	-54.68	≤ -32.8	PASS
11N20MIMO	Ant1	2437	1000~26500	-4.11	-44.89	≤ -34.11	PASS
11N20MIMO	Ant2	2437	1000~26500	-2.80	-45.25	≤ -32.8	PASS
11N20MIMO	Ant1	2462	0~Reference	-3.51	-3.51	---	PASS
11N20MIMO	Ant2	2462	0~Reference	-2.09	-2.09	---	PASS
11N20MIMO	Ant1	2462	30~1000	-3.51	-54.62	≤ -33.51	PASS
11N20MIMO	Ant2	2462	30~1000	-2.09	-55.06	≤ -32.09	PASS
11N20MIMO	Ant1	2462	1000~26500	-3.51	-44.92	≤ -33.51	PASS
11N20MIMO	Ant2	2462	1000~26500	-2.09	-45.14	≤ -32.09	PASS

Test Graphs

