

Appendix: Bluetooth LE

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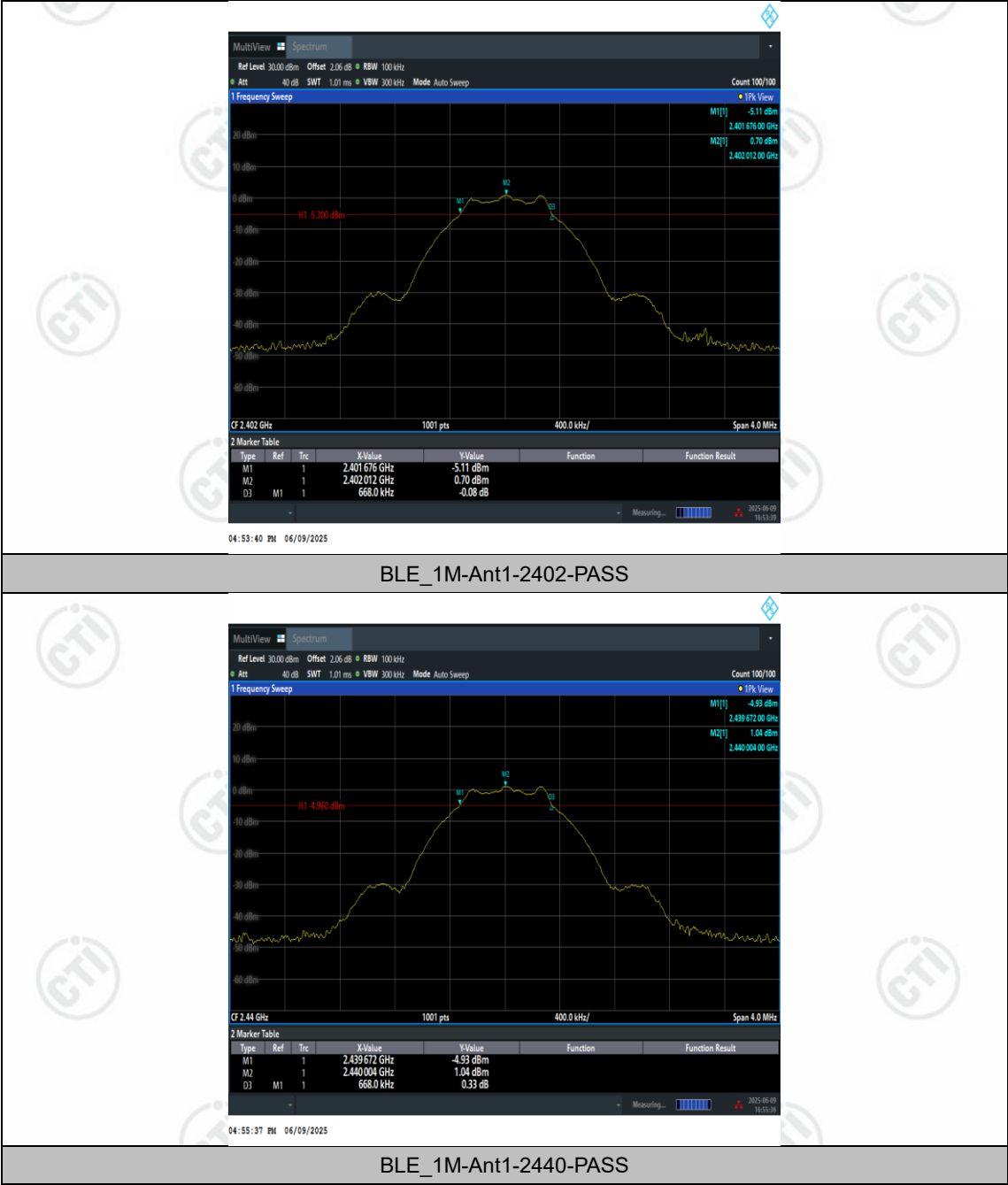
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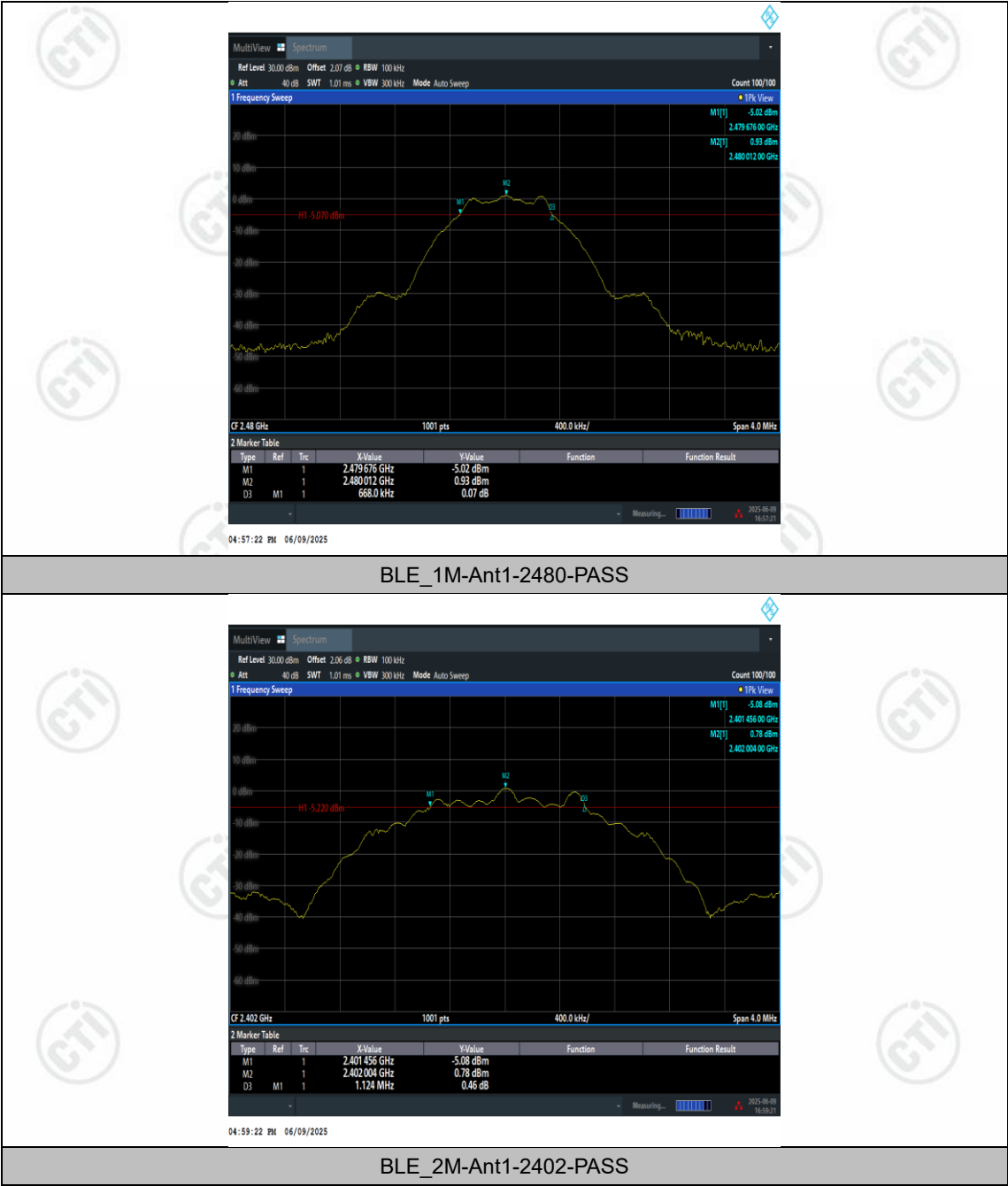
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.67	2401.68	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.67	2439.67	2440.34	0.5	PASS
BLE_1M	Ant1	2480	0.67	2479.68	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.12	2401.46	2402.58	0.5	PASS
BLE_2M	Ant1	2440	1.13	2439.46	2440.59	0.5	PASS
BLE_2M	Ant1	2480	1.14	2479.46	2480.59	0.5	PASS

Test Graphs





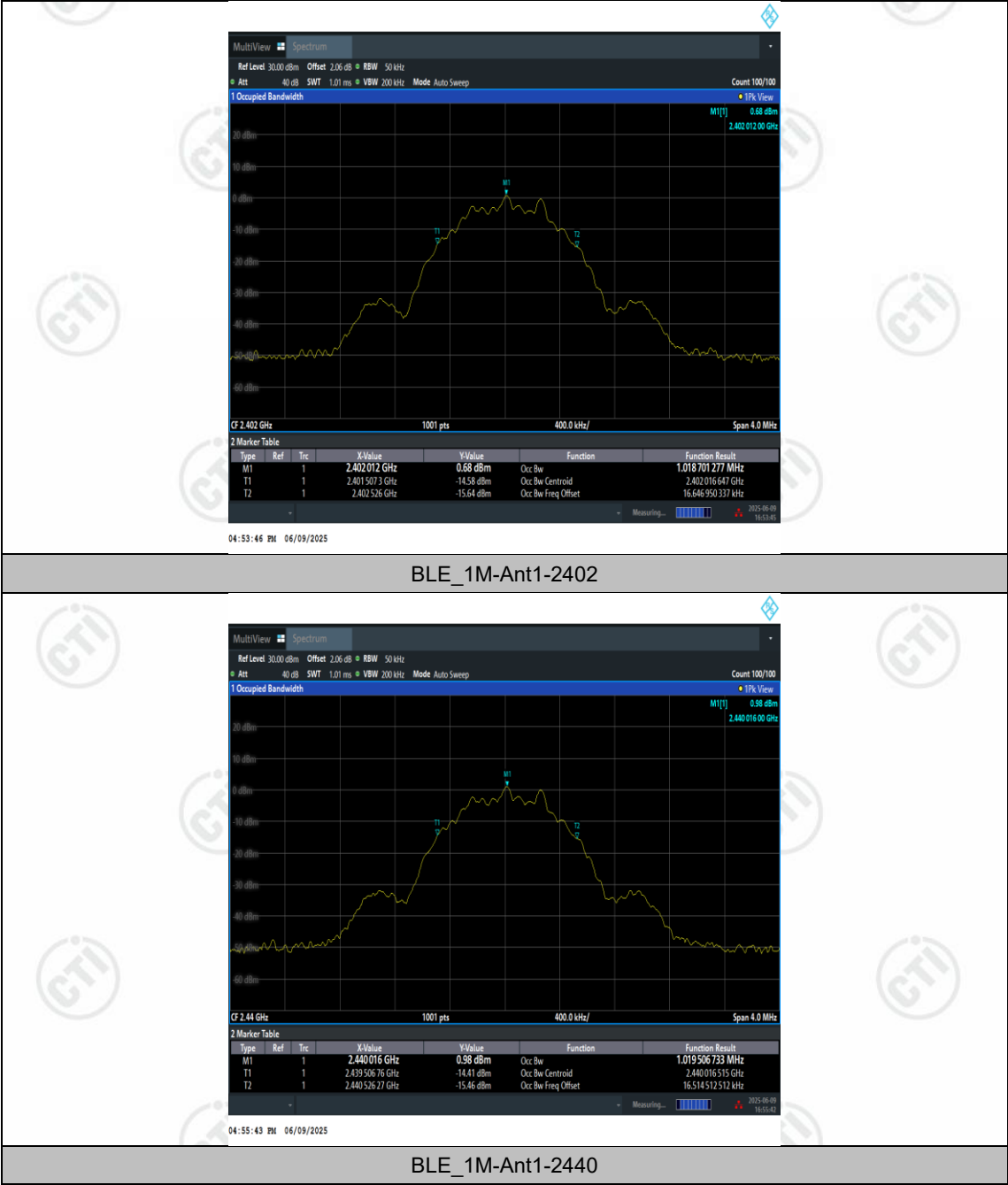


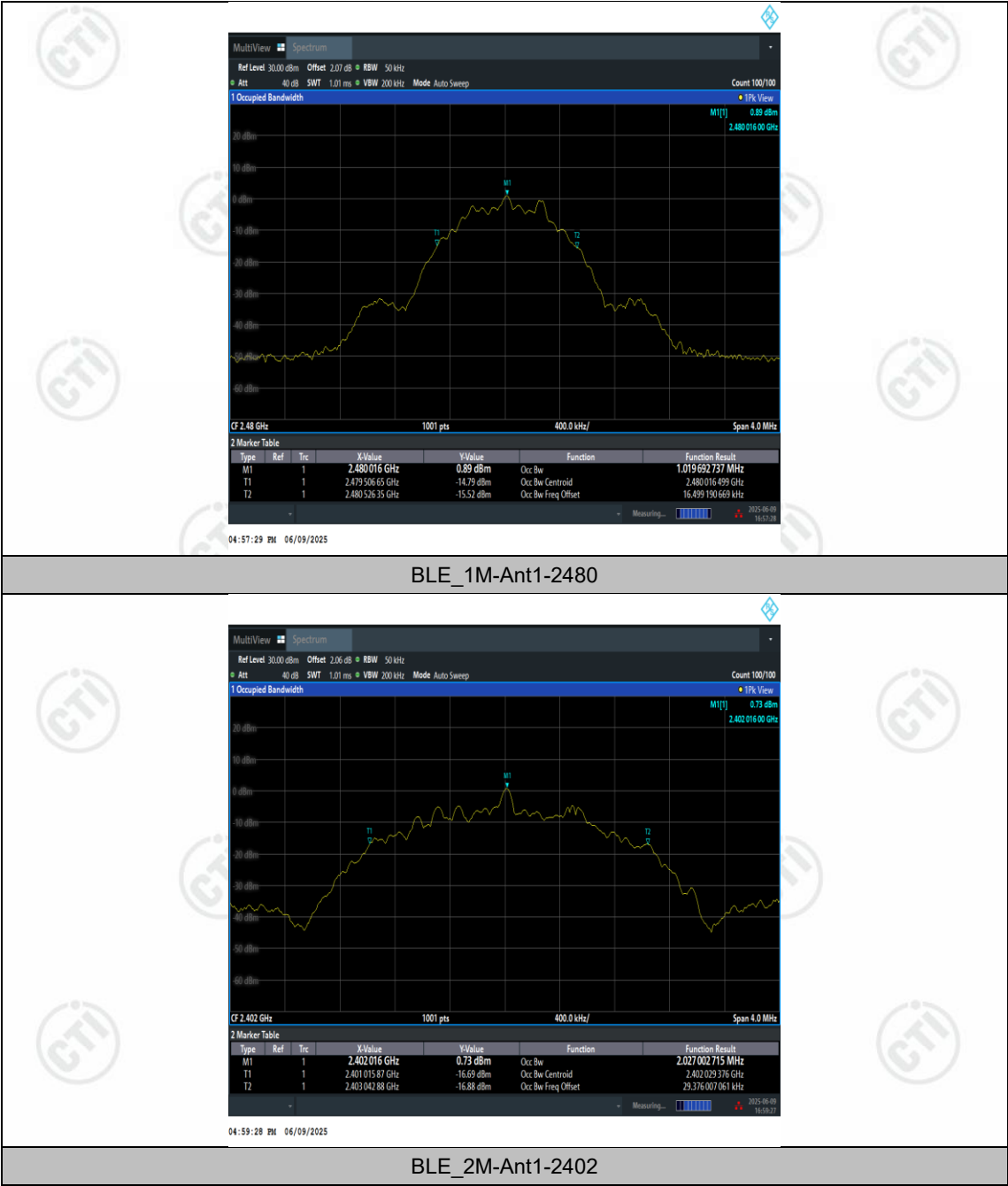
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.019	2401.5073	2402.5260	---	---
BLE_1M	Ant1	2440	1.02	2439.5068	2440.5263	---	---
BLE_1M	Ant1	2480	1.02	2479.5067	2480.5263	---	---
BLE_2M	Ant1	2402	2.027	2401.0159	2403.0429	---	---
BLE_2M	Ant1	2440	2.025	2439.0176	2441.0427	---	---
BLE_2M	Ant1	2480	2.024	2479.0168	2481.0410	---	---

Test Graphs





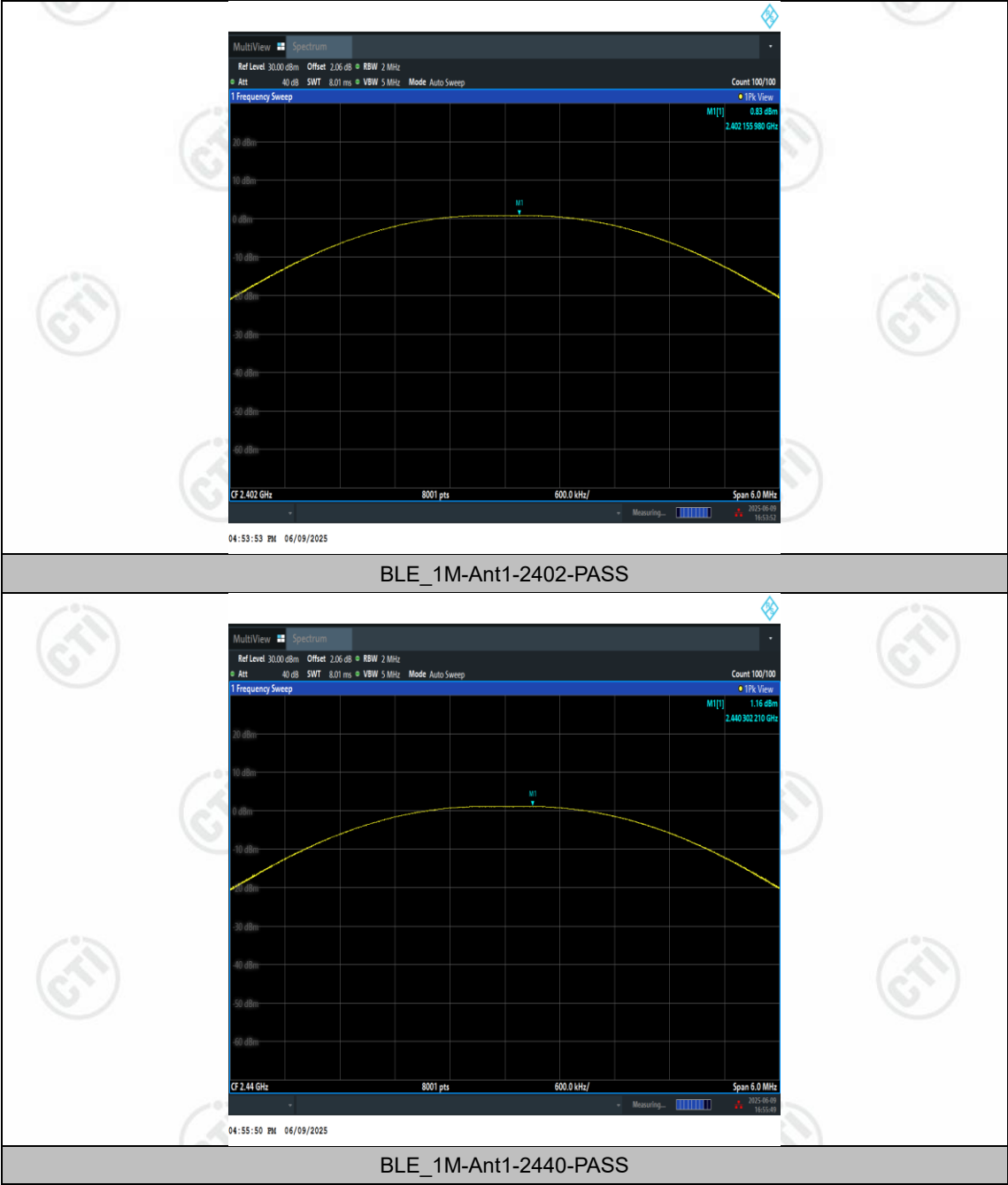


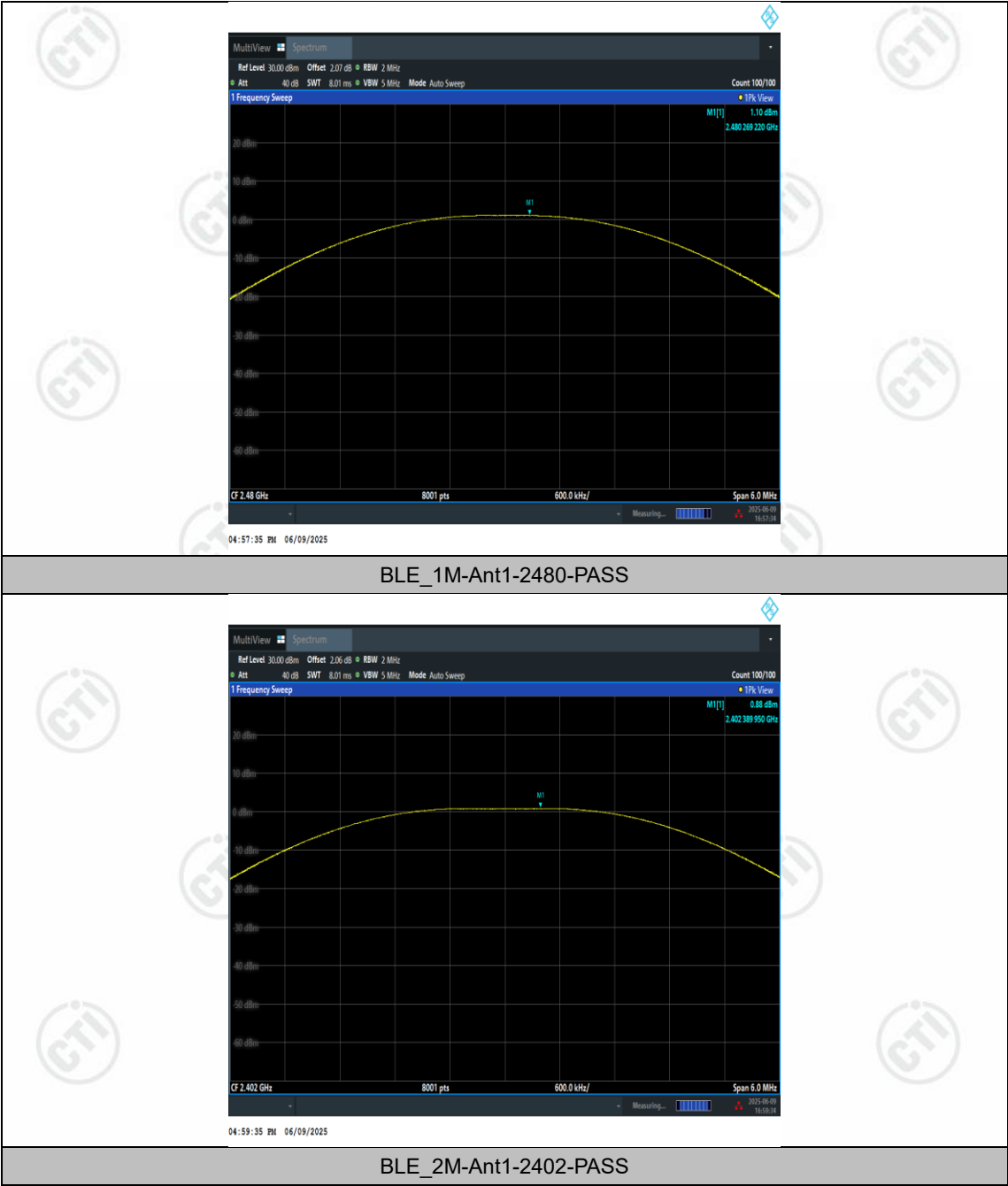
Appendix C: Maximum conducted output power

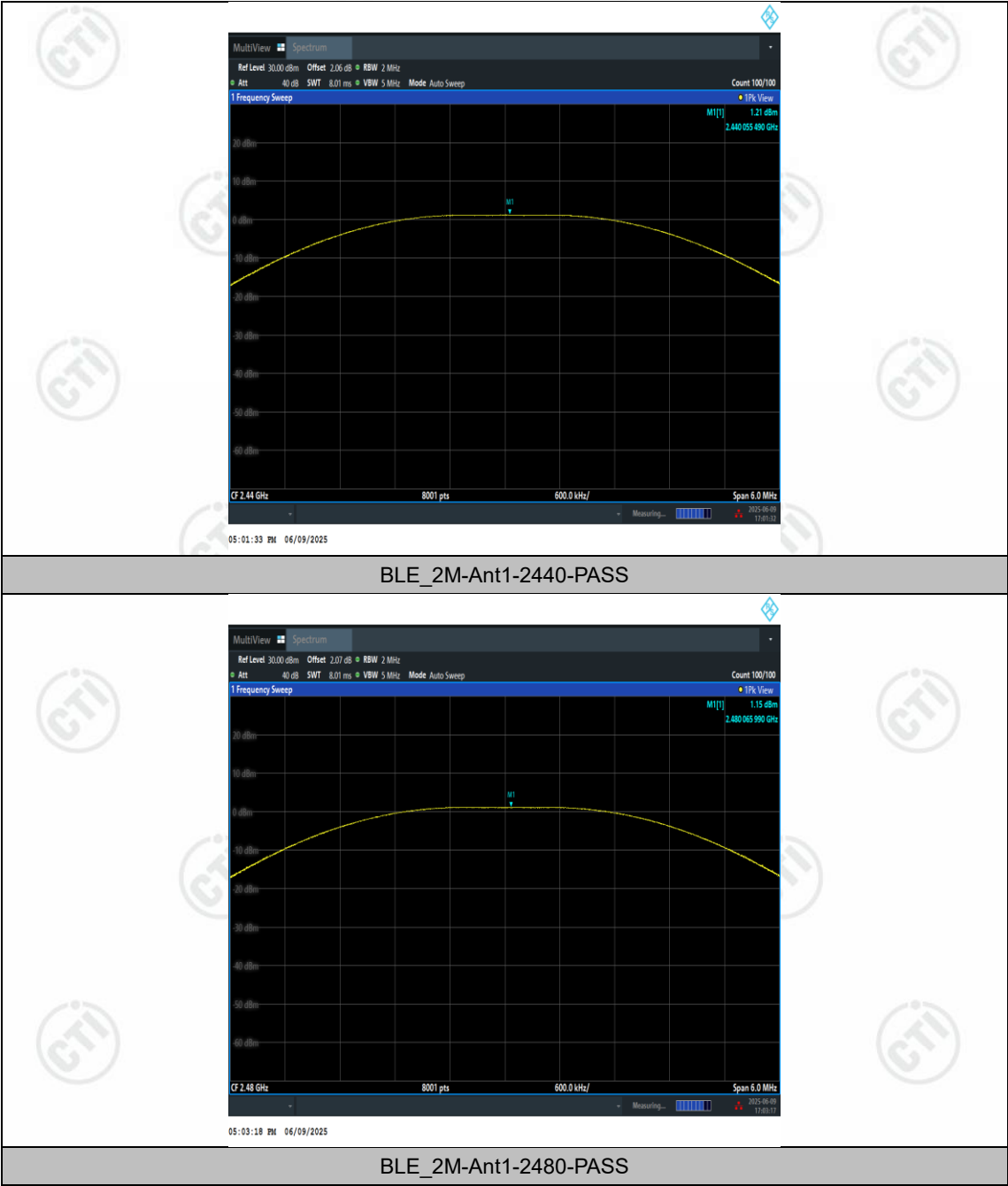
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.83	≤30	3.17	≤36	PASS
BLE_1M	Ant1	2440	1.16	≤30	3.50	≤36	PASS
BLE_1M	Ant1	2480	1.10	≤30	3.44	≤36	PASS
BLE_2M	Ant1	2402	0.88	≤30	3.22	≤36	PASS
BLE_2M	Ant1	2440	1.21	≤30	3.55	≤36	PASS
BLE_2M	Ant1	2480	1.15	≤30	3.49	≤36	PASS

Test Graphs Peak





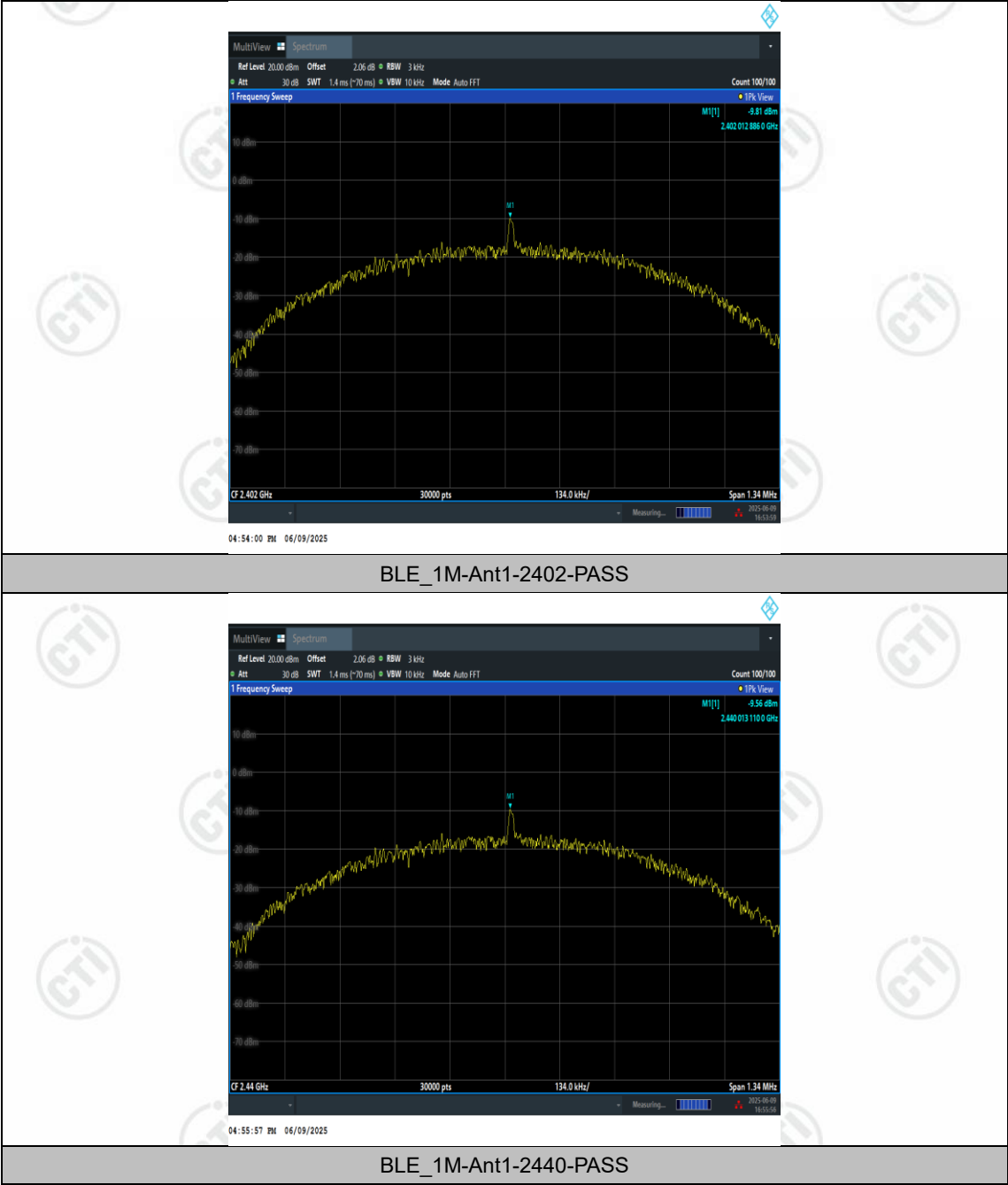


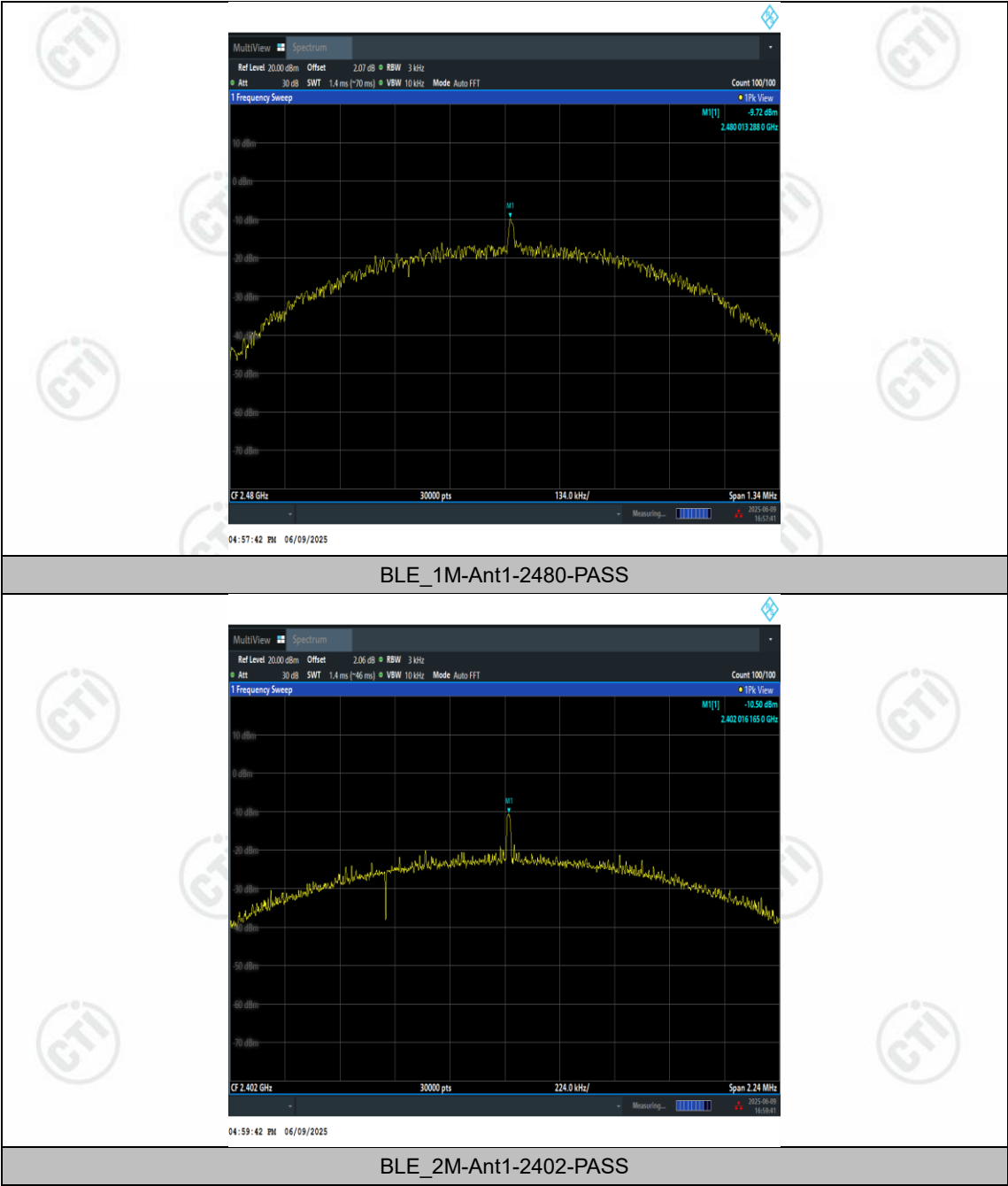
Appendix D: Maximum power spectral density

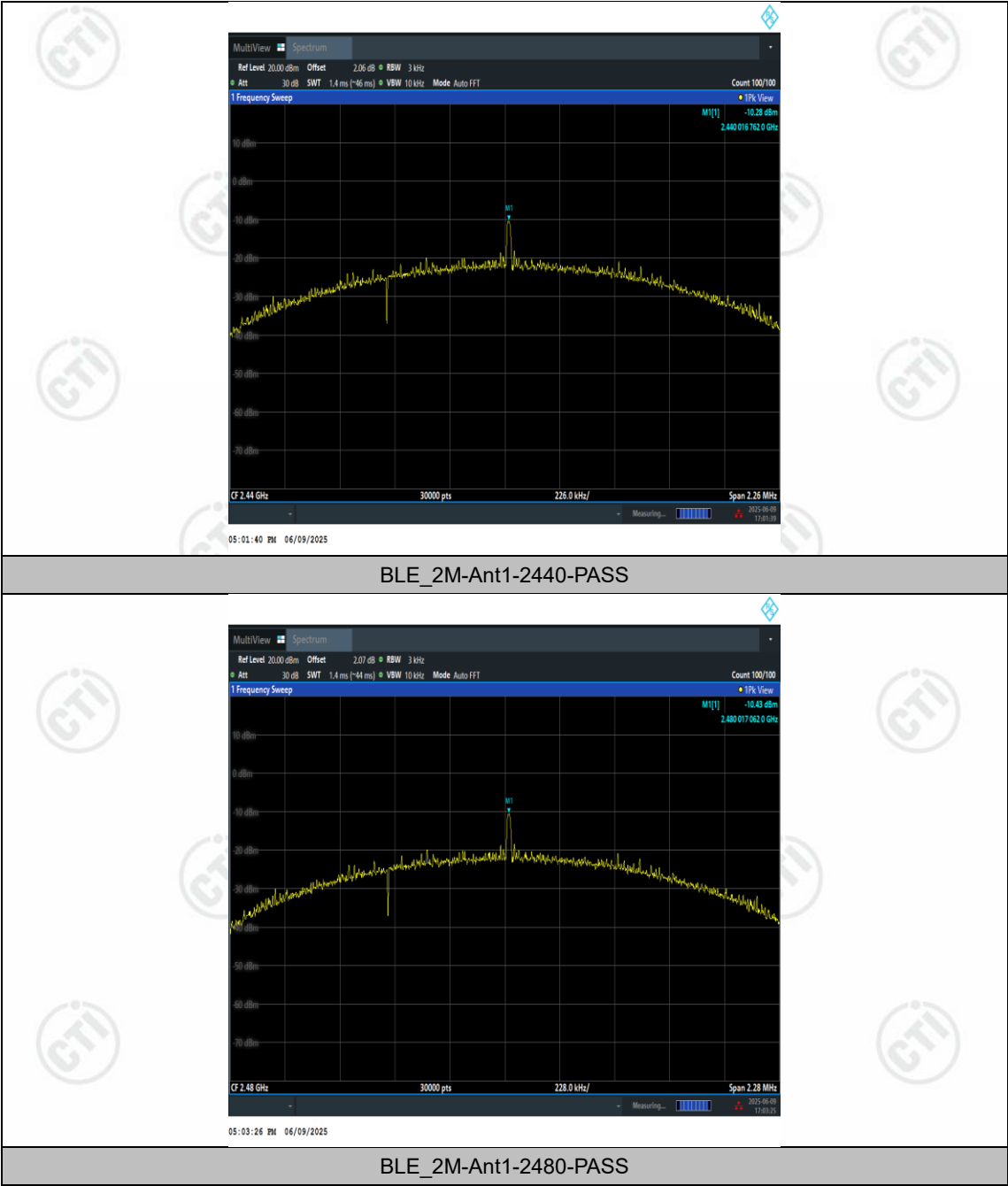
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.81	≤8.00	PASS
BLE_1M	Ant1	2440	-9.56	≤8.00	PASS
BLE_1M	Ant1	2480	-9.72	≤8.00	PASS
BLE_2M	Ant1	2402	-10.50	≤8.00	PASS
BLE_2M	Ant1	2440	-10.28	≤8.00	PASS
BLE_2M	Ant1	2480	-10.43	≤8.00	PASS

Test Graphs







Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.63	-52.23	≤-19.37	PASS
BLE_1M	Ant1	High	2480	0.84	-54.69	≤-19.16	PASS
BLE_2M	Ant1	Low	2402	0.33	-33.56	≤-19.67	PASS
BLE_2M	Ant1	High	2480	0.91	-51.98	≤-19.09	PASS

Test Graphs



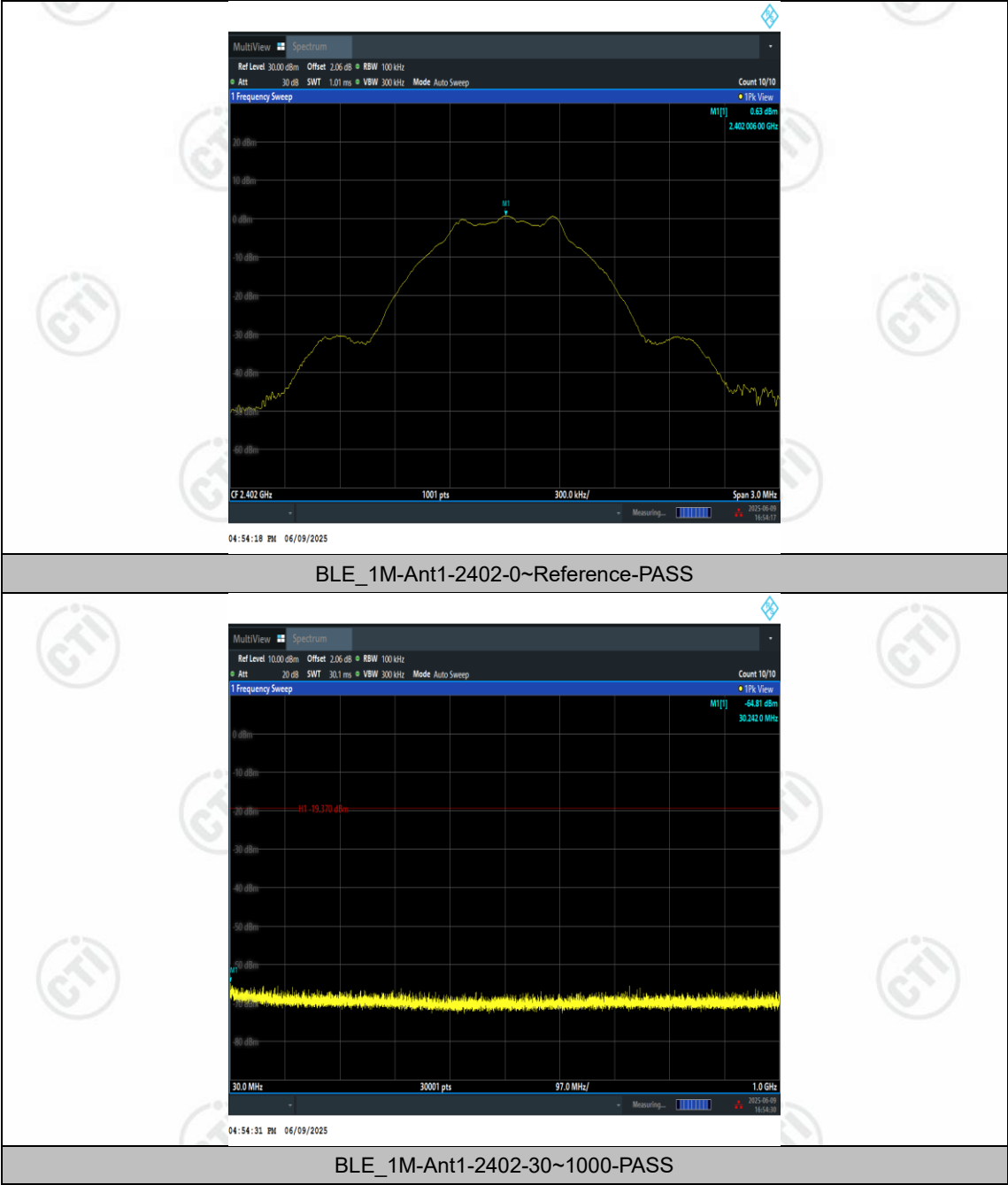


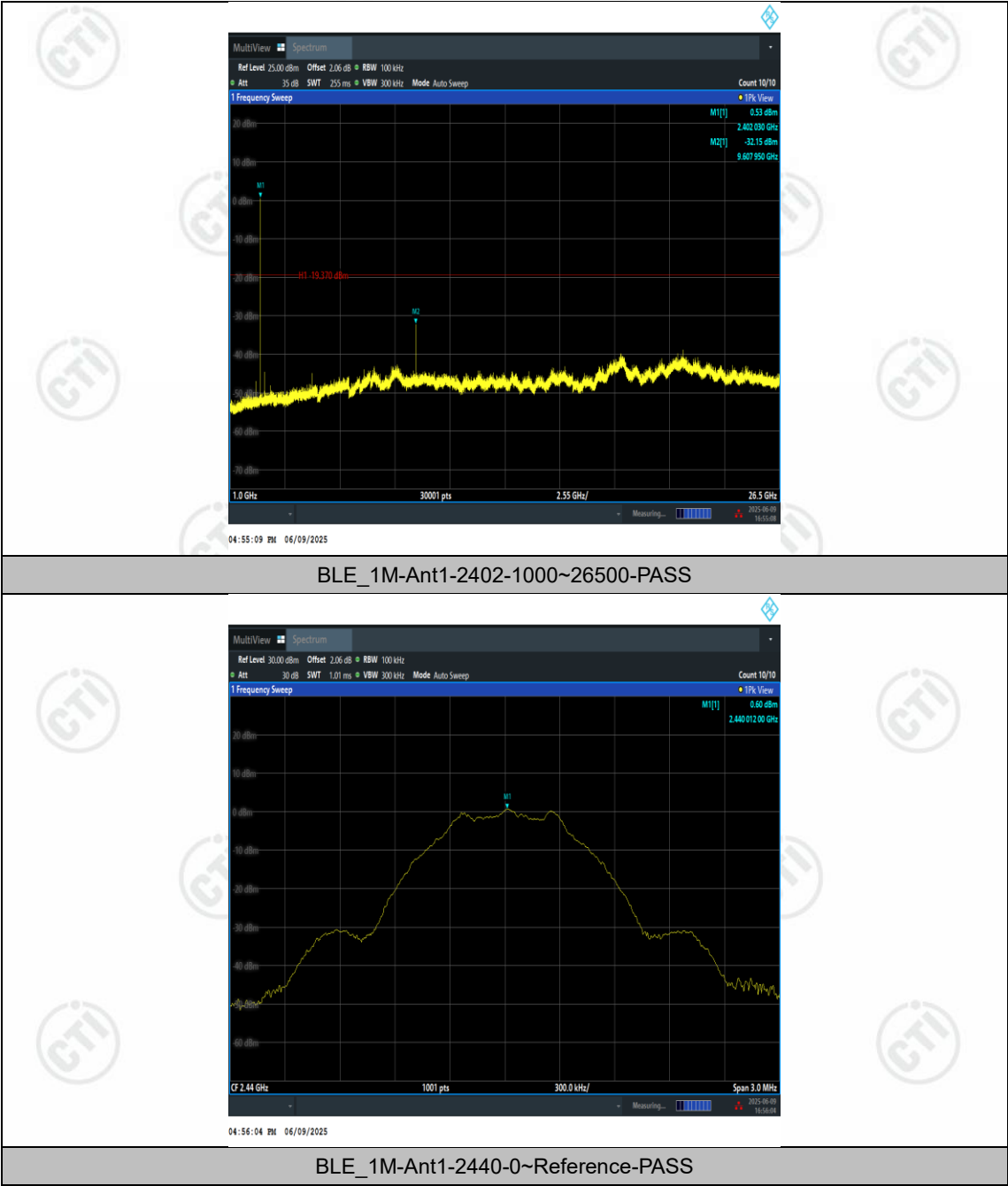
Appendix F: Conducted Spurious Emission

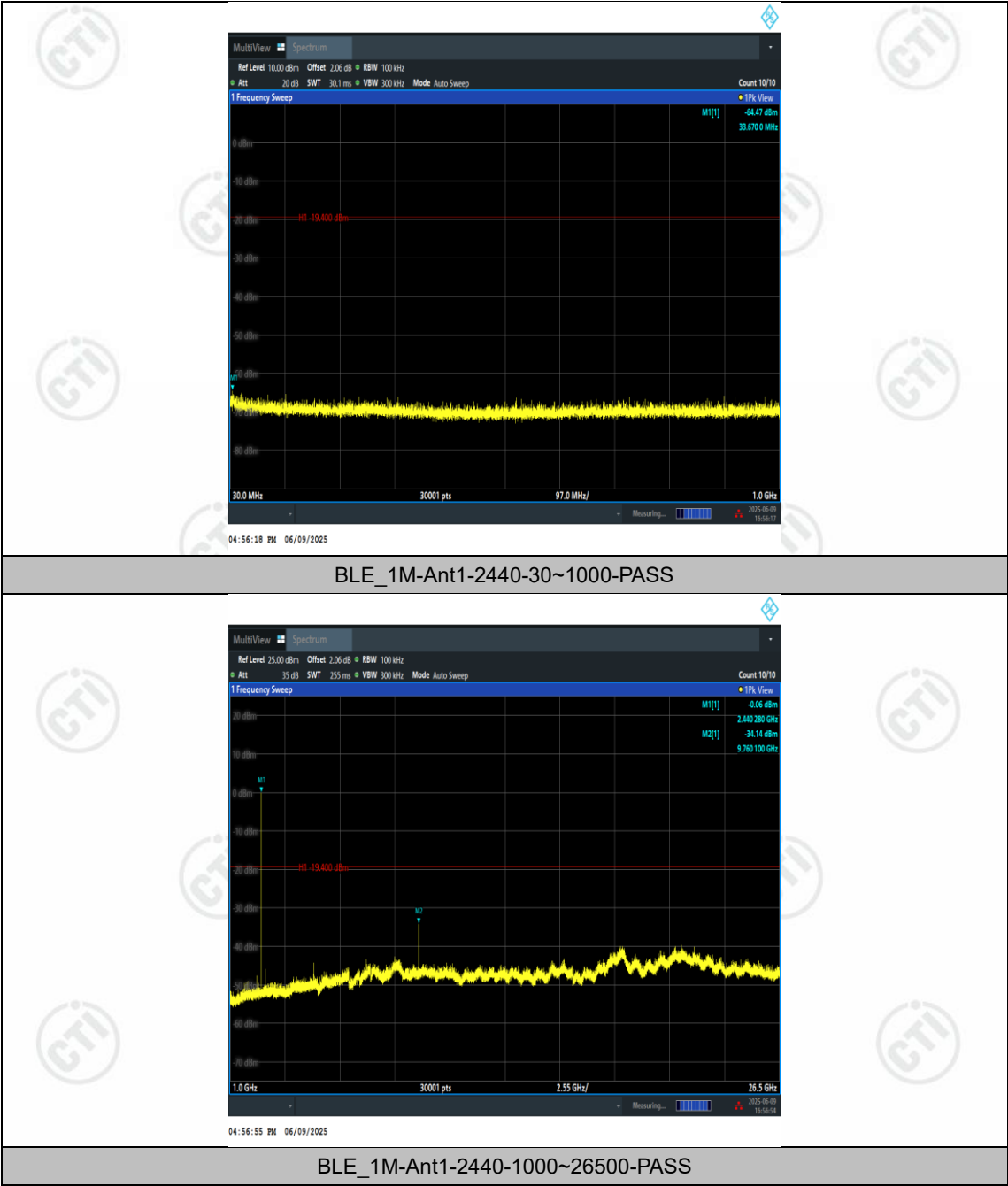
Test Result

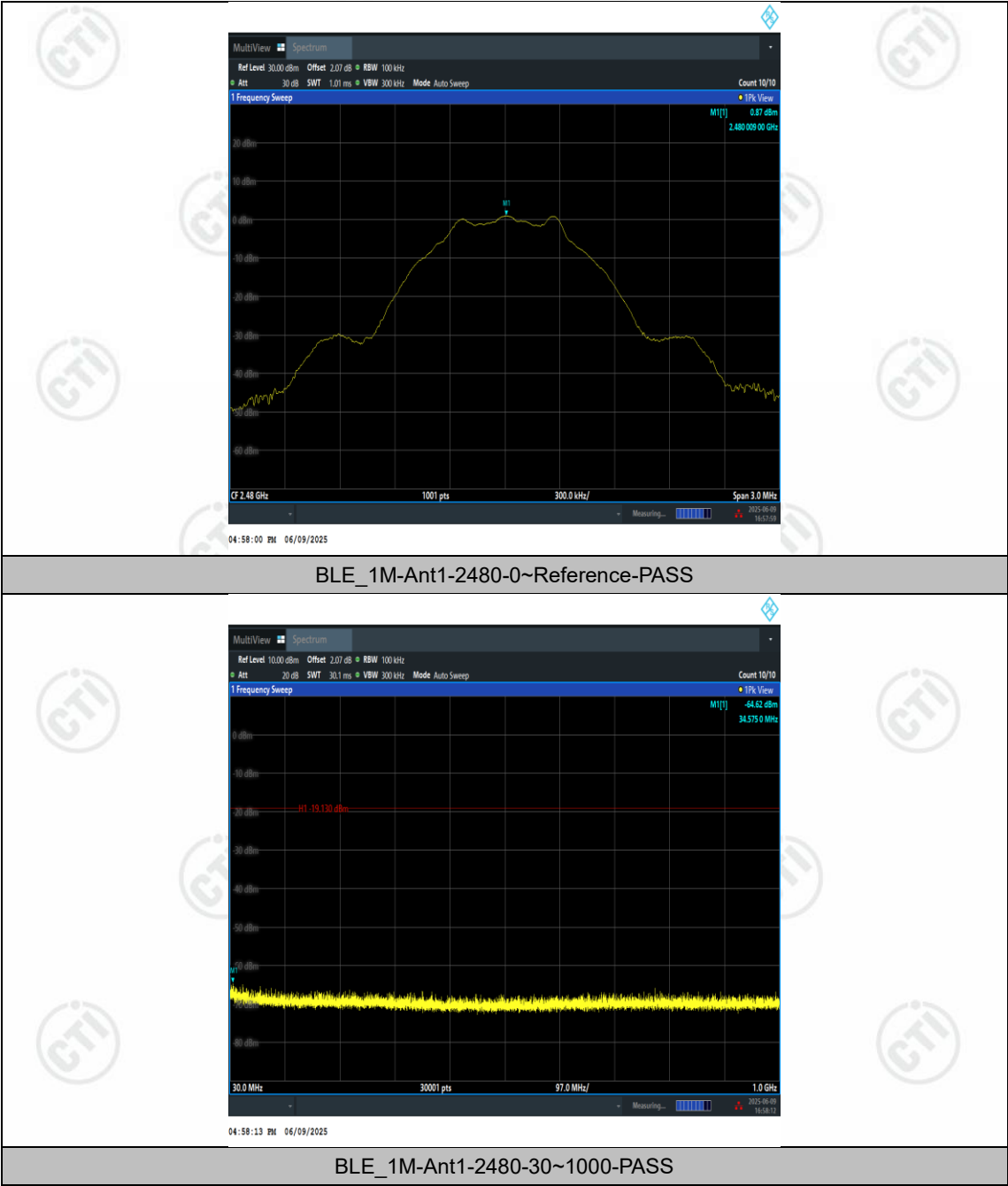
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.63	0.63	---	PASS
BLE_1M	Ant1	2402	30~1000	0.63	-64.81	≤-19.37	PASS
BLE_1M	Ant1	2402	1000~26500	0.63	-32.15	≤-19.37	PASS
BLE_1M	Ant1	2440	0~Reference	0.60	0.60	---	PASS
BLE_1M	Ant1	2440	30~1000	0.60	-64.47	≤-19.4	PASS
BLE_1M	Ant1	2440	1000~26500	0.60	-34.14	≤-19.4	PASS
BLE_1M	Ant1	2480	0~Reference	0.87	0.87	---	PASS
BLE_1M	Ant1	2480	30~1000	0.87	-64.62	≤-19.13	PASS
BLE_1M	Ant1	2480	1000~26500	0.87	-34.9	≤-19.13	PASS
BLE_2M	Ant1	2402	0~Reference	0.36	0.36	---	PASS
BLE_2M	Ant1	2402	30~1000	0.36	-63.91	≤-19.64	PASS
BLE_2M	Ant1	2402	1000~26500	0.36	-33.11	≤-19.64	PASS
BLE_2M	Ant1	2440	0~Reference	1.03	1.03	---	PASS
BLE_2M	Ant1	2440	30~1000	1.03	-64.27	≤-18.97	PASS
BLE_2M	Ant1	2440	1000~26500	1.03	-34.71	≤-18.97	PASS
BLE_2M	Ant1	2480	0~Reference	0.68	0.68	---	PASS
BLE_2M	Ant1	2480	30~1000	0.68	-64.91	≤-19.32	PASS
BLE_2M	Ant1	2480	1000~26500	0.68	-35.56	≤-19.32	PASS

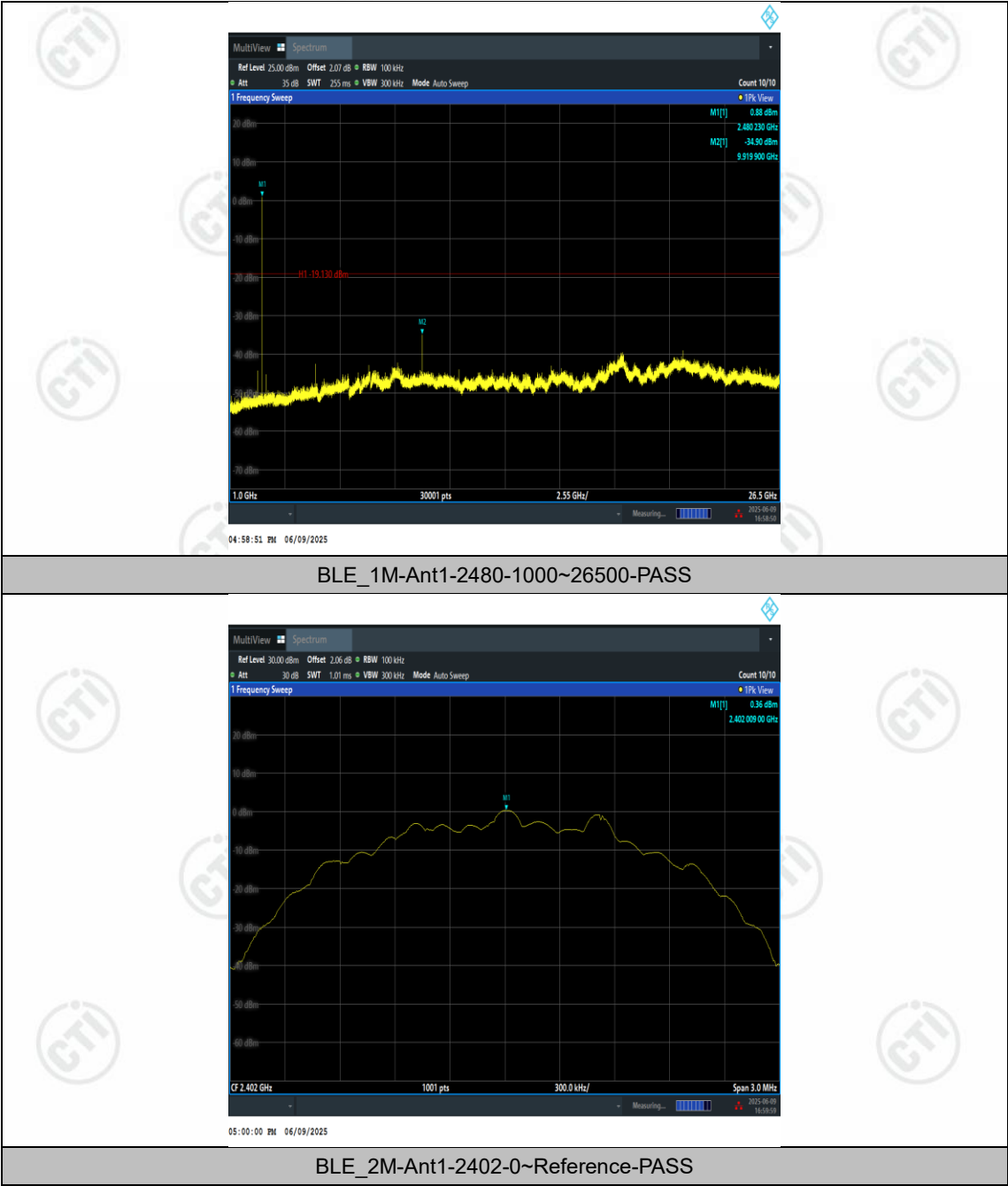
Test Graphs

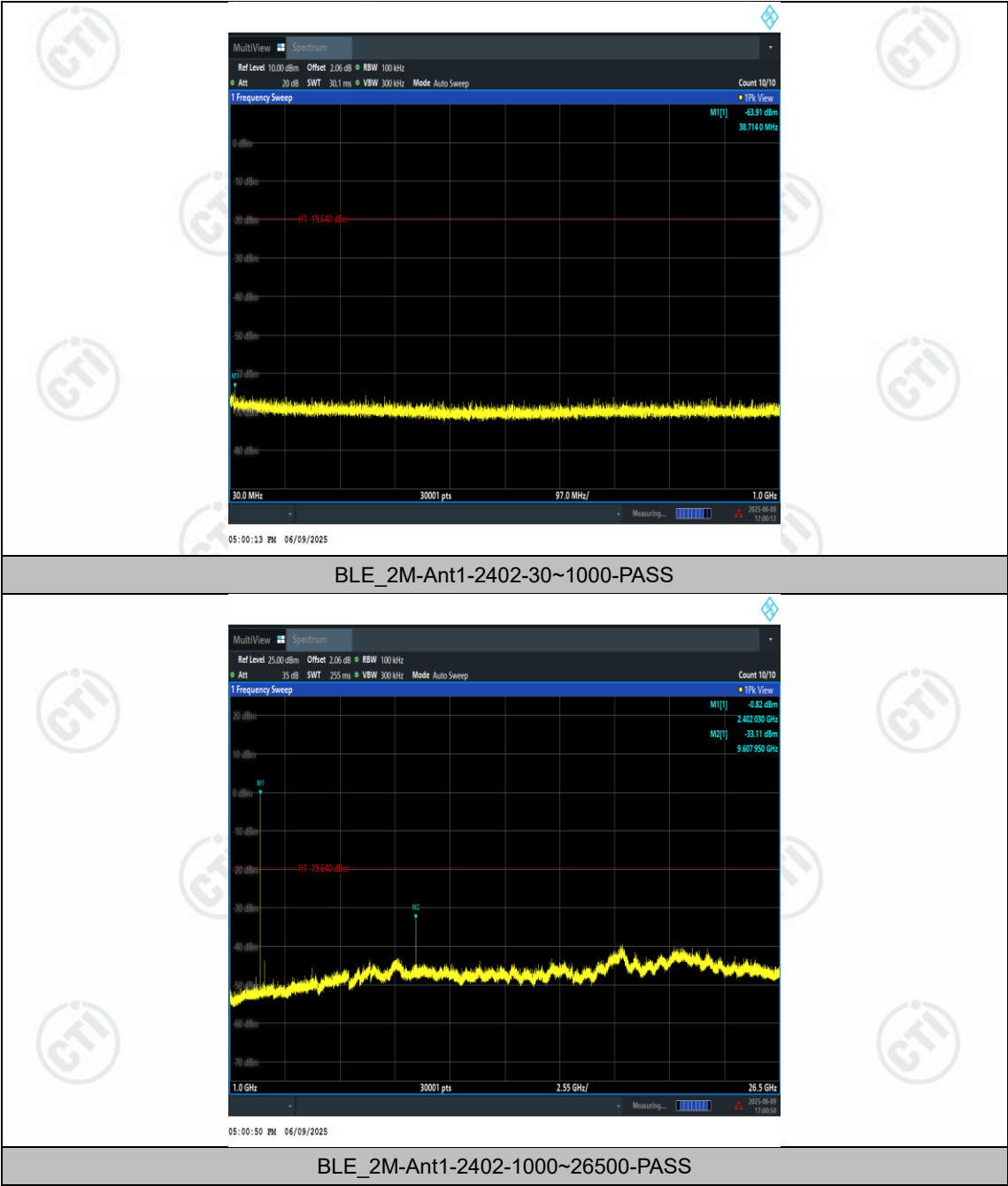


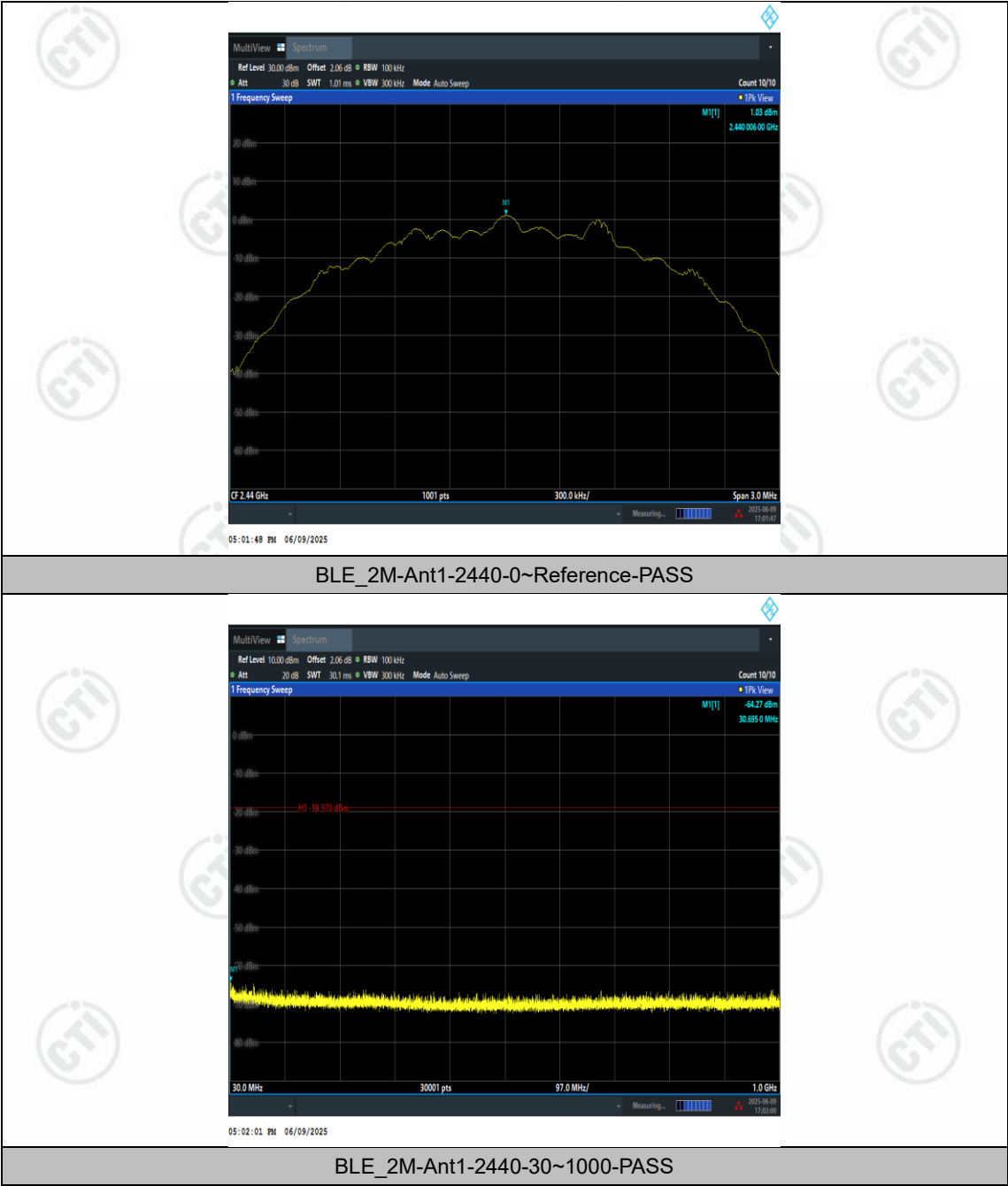


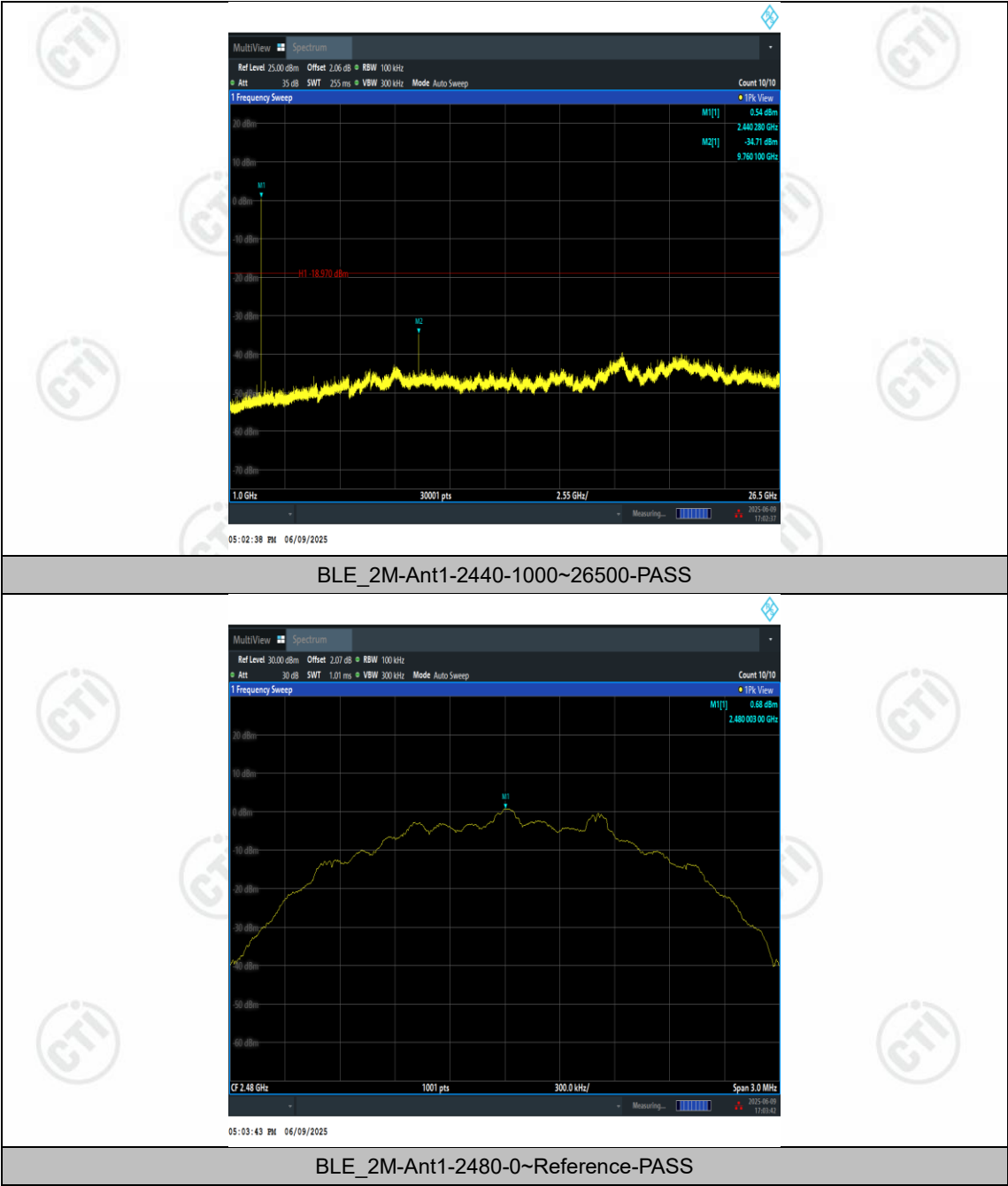


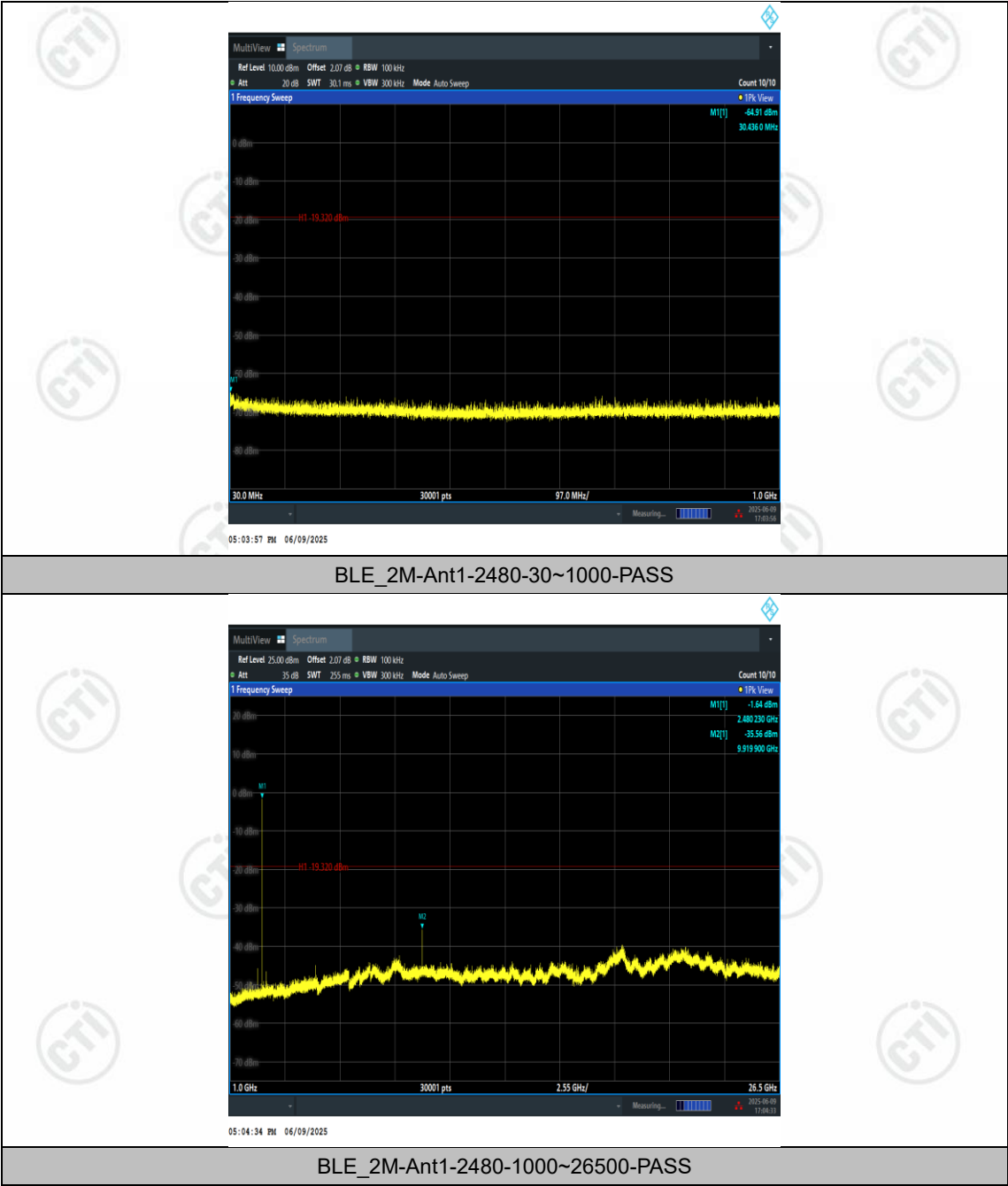












Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.18	2.50	87.20	0.59
BLE_1M	Ant1	2440	2.18	2.50	87.20	0.59
BLE_1M	Ant1	2480	2.18	2.50	87.20	0.59
BLE_2M	Ant1	2402	1.13	2.50	45.20	3.45
BLE_2M	Ant1	2440	1.13	2.50	45.20	3.45
BLE_2M	Ant1	2480	1.13	2.50	45.20	3.45

Test Graphs







*** End of Report ***