

Appendix: Bluetooth LE

Contents

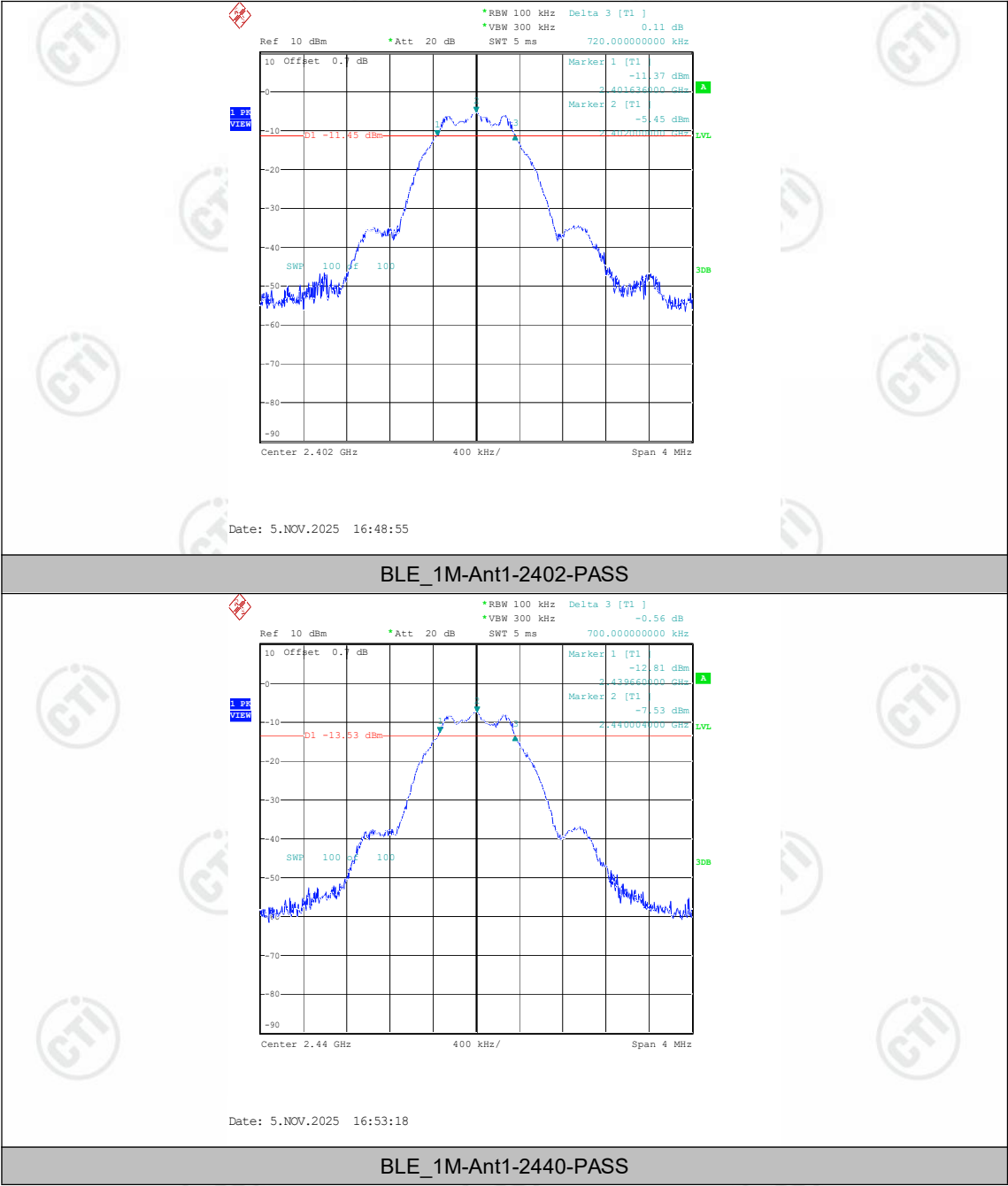
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Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.72	2401.64	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.70	2439.66	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.69	2479.66	2480.35	0.5	PASS

Test Graphs



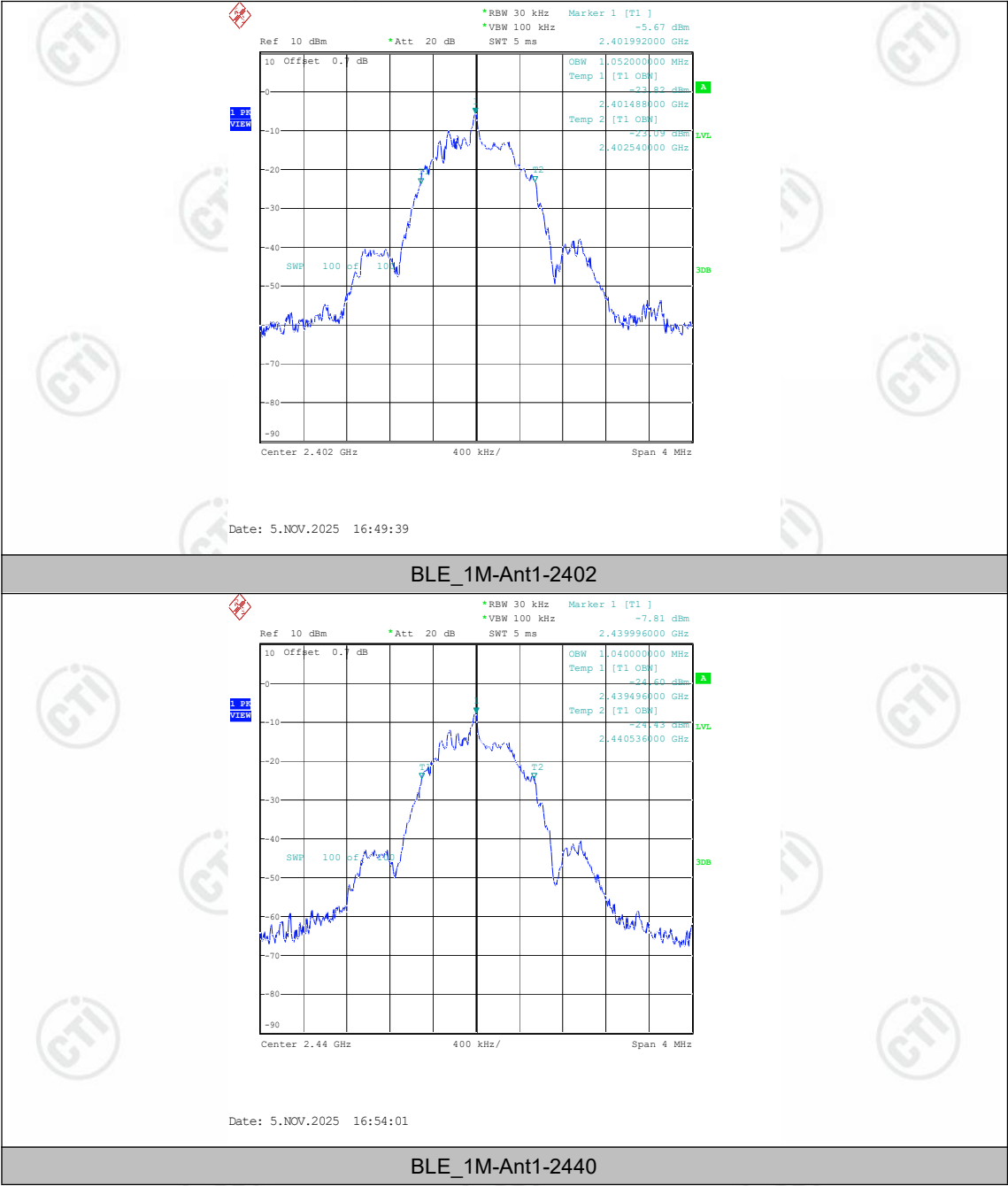


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0520	---	---
BLE_1M	Ant1	2440	1.0400	---	---
BLE_1M	Ant1	2480	1.0520	---	---

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	-5.24	≤30	-4.16	≤36	PASS
BLE_1M	Ant1	2440	-7.33	≤30	-6.25	≤36	PASS
BLE_1M	Ant1	2480	-9.41	≤30	-8.33	≤36	PASS

BLE_1M-Ant1-2440-PASS



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.05	≤8.00	PASS
BLE_1M	Ant1	2440	-20.56	≤8.00	PASS
BLE_1M	Ant1	2480	-22.81	≤8.00	PASS

BLE_1M-Ant1-2440-PASS

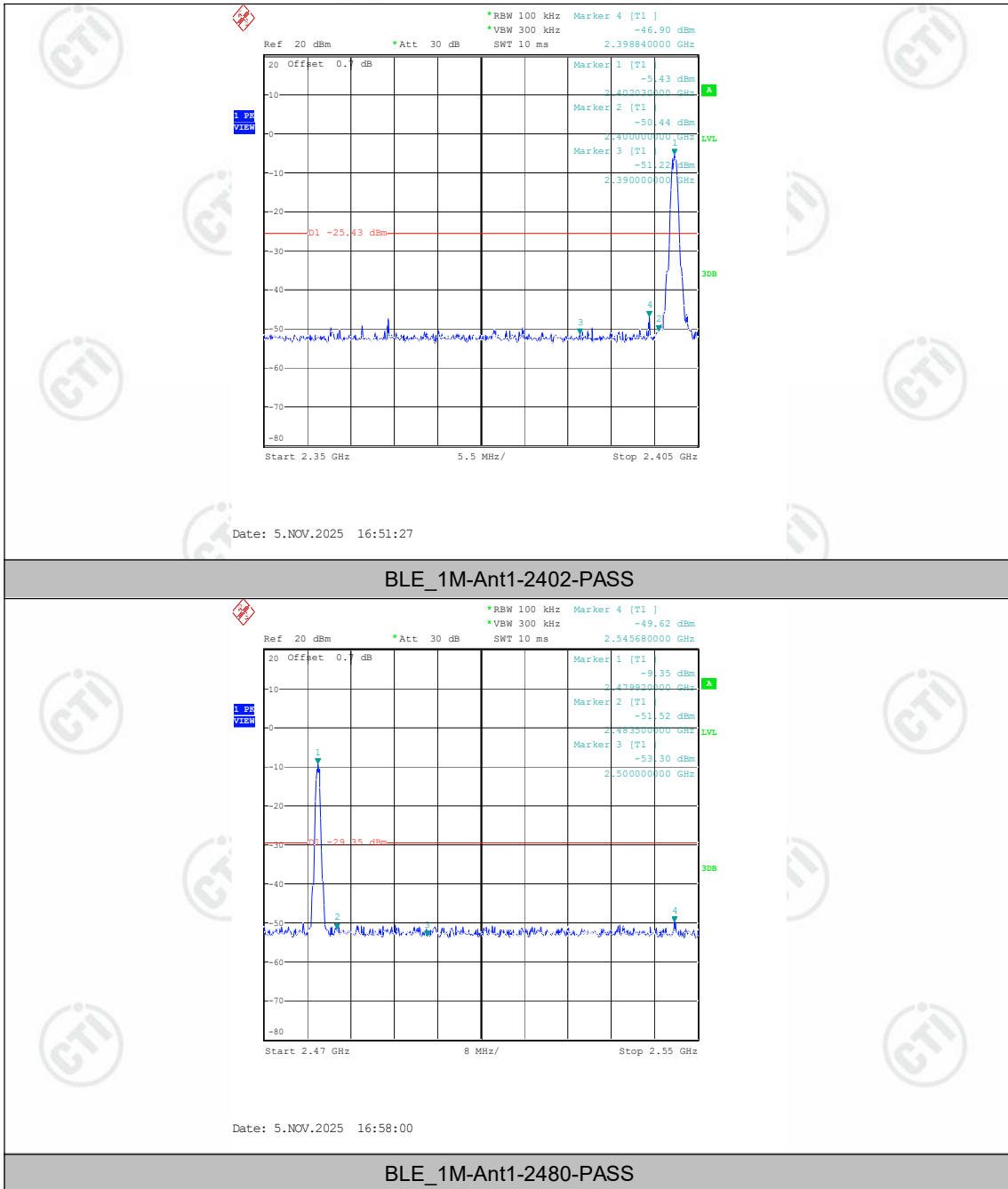


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-5.43	-46.9	≤-25.43	PASS
BLE_1M	Ant1	High	2480	-9.35	-49.62	≤-29.35	PASS

Test Graphs

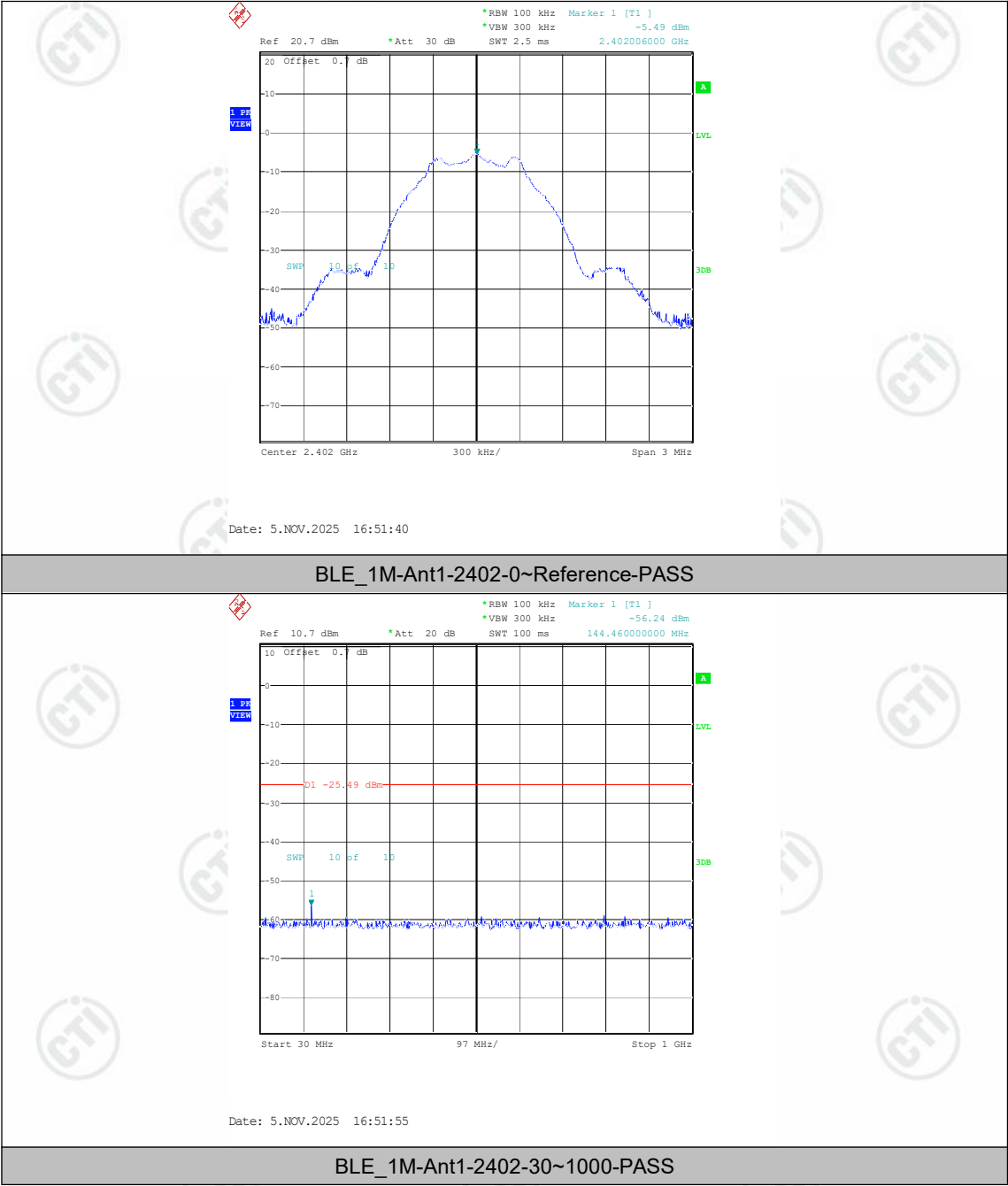


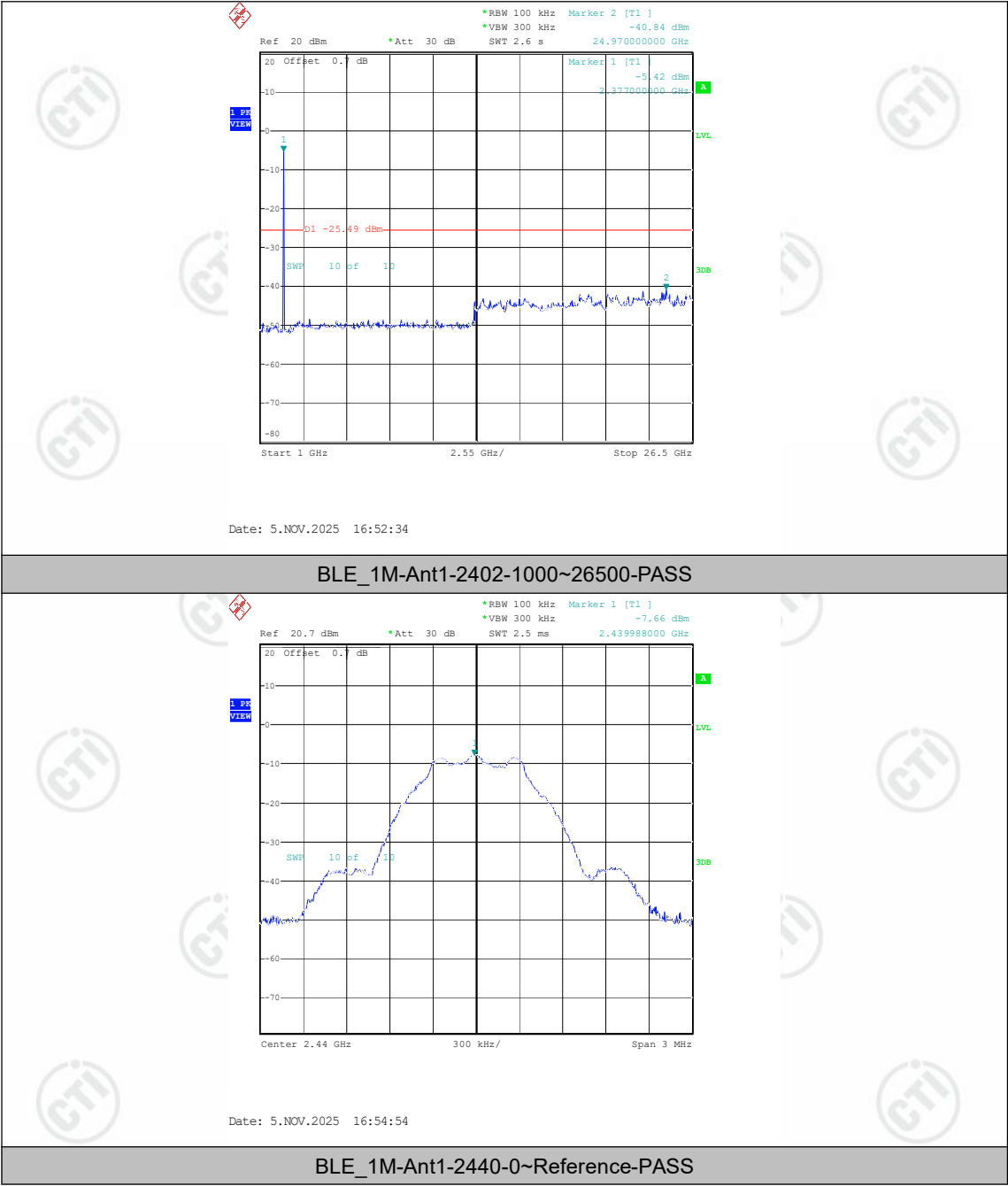
Appendix F: Conducted Spurious Emission

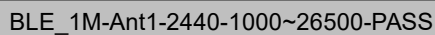
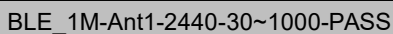
Test Result

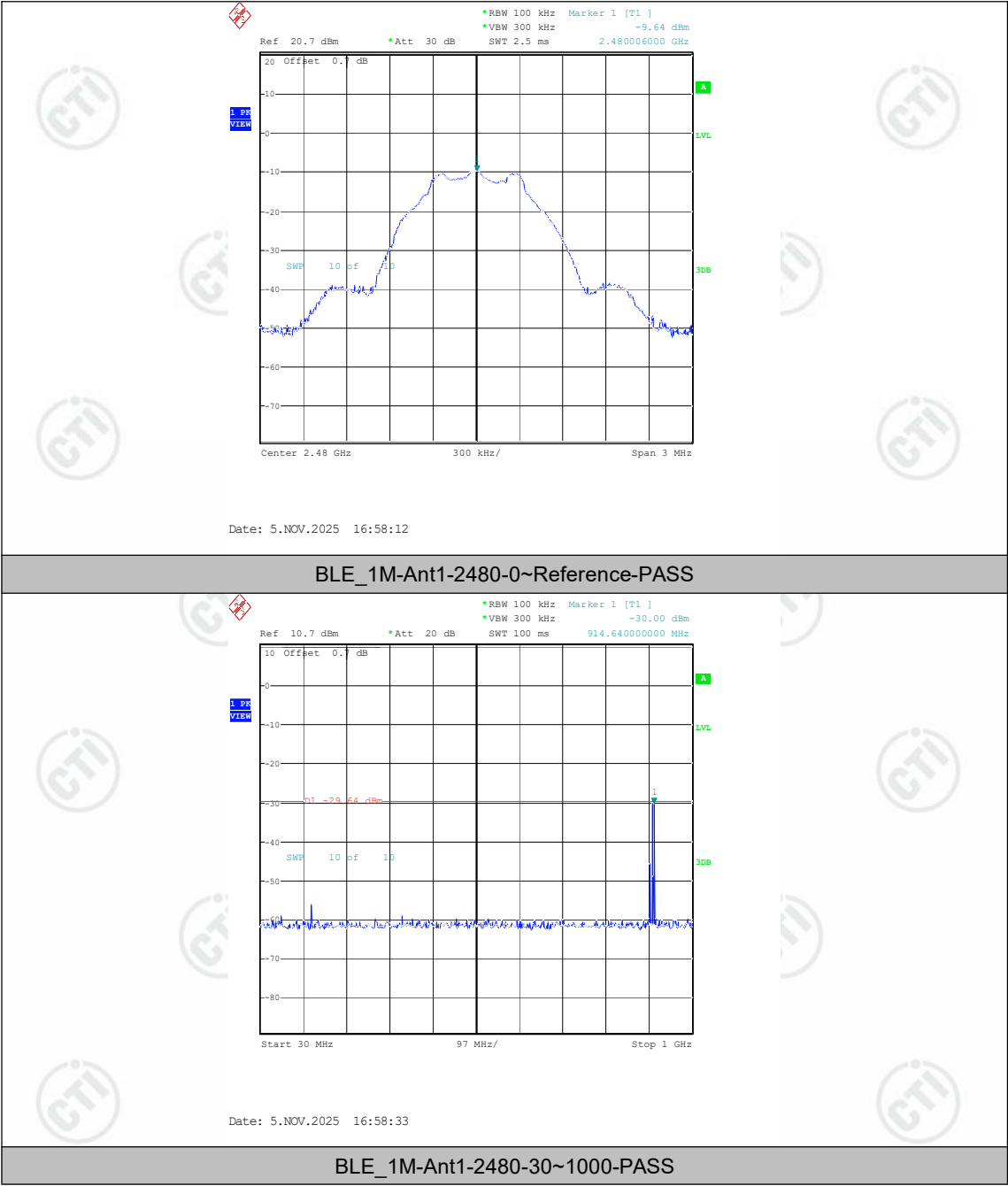
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-5.49	-5.49	---	PASS
BLE_1M	Ant1	2402	30~1000	-5.49	-56.24	≤-25.49	PASS
BLE_1M	Ant1	2402	1000~26500	-5.49	-40.84	≤-25.49	PASS
BLE_1M	Ant1	2440	0~Reference	-7.66	-7.66	---	PASS
BLE_1M	Ant1	2440	30~1000	-7.66	-56.95	≤-27.66	PASS
BLE_1M	Ant1	2440	1000~26500	-7.66	-41.53	≤-27.66	PASS
BLE_1M	Ant1	2480	0~Reference	-9.64	-9.64	---	PASS
BLE_1M	Ant1	2480	30~1000	-9.64	-30	≤-29.64	PASS
BLE_1M	Ant1	2480	1000~26500	-9.64	-41.38	≤-29.64	PASS

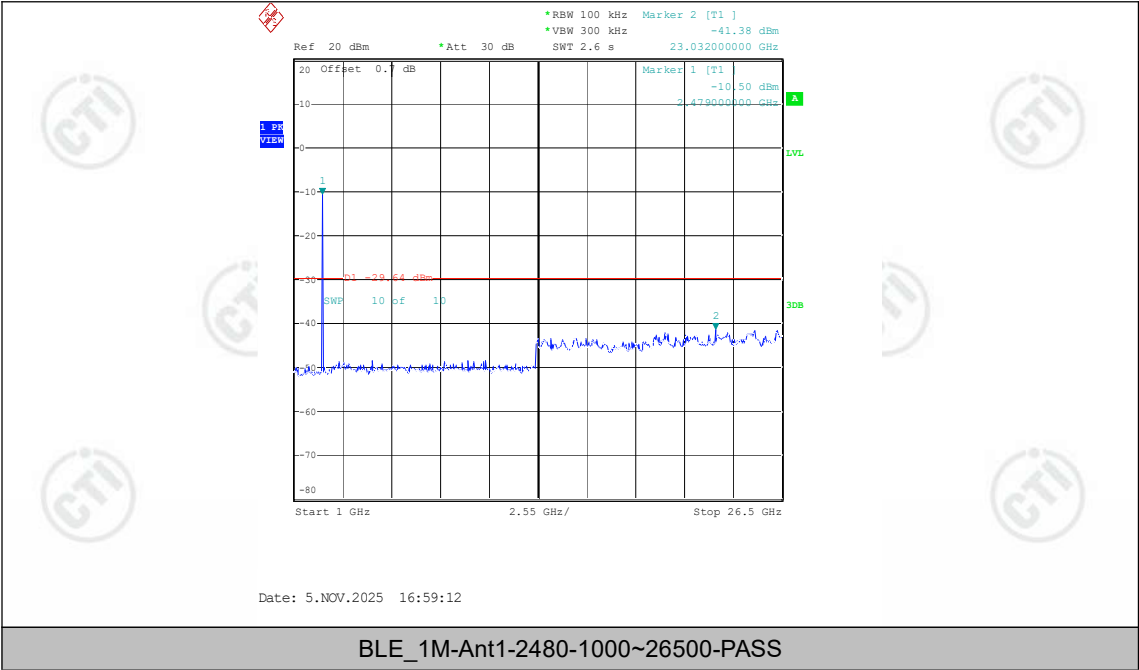
Test Graphs









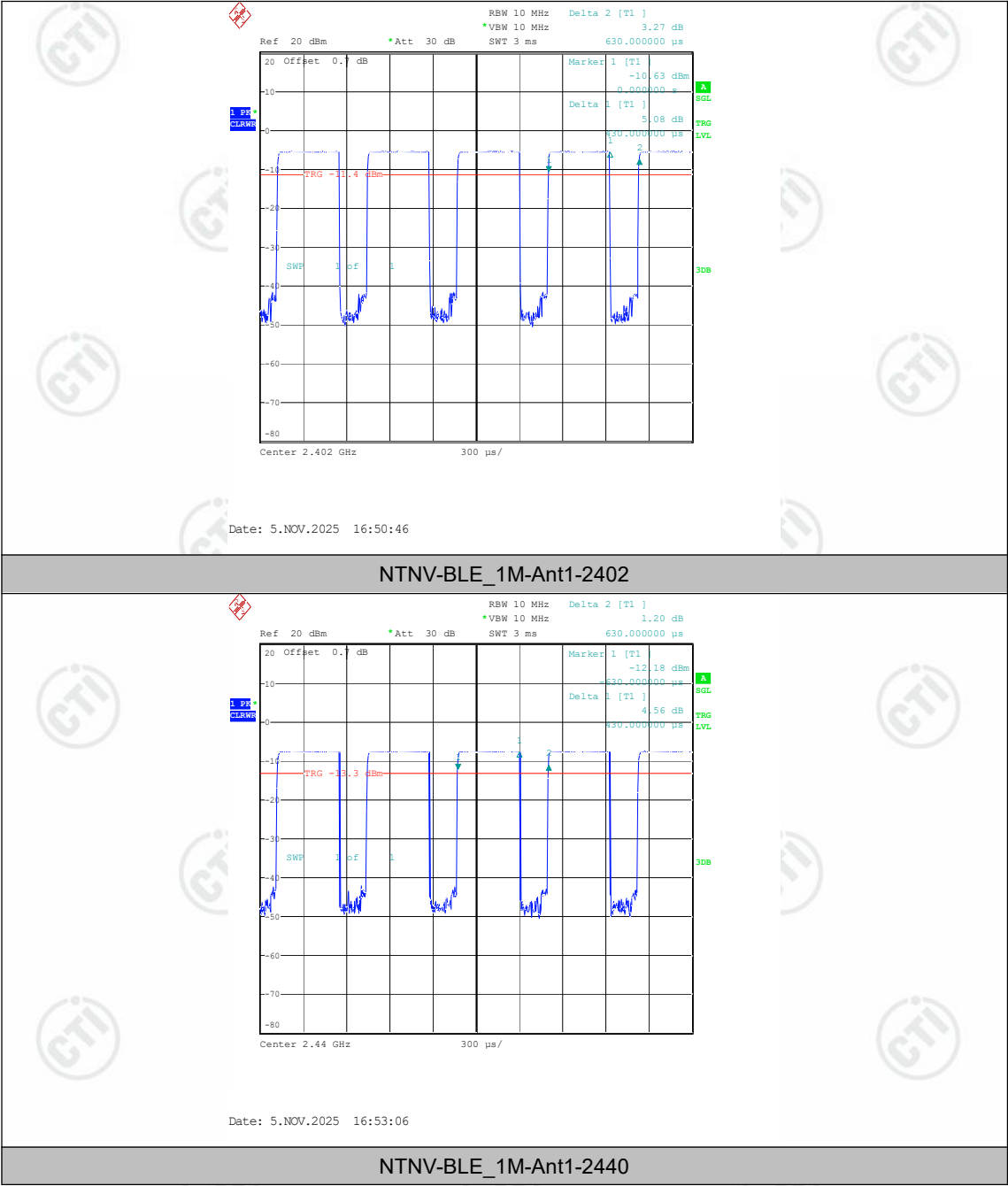


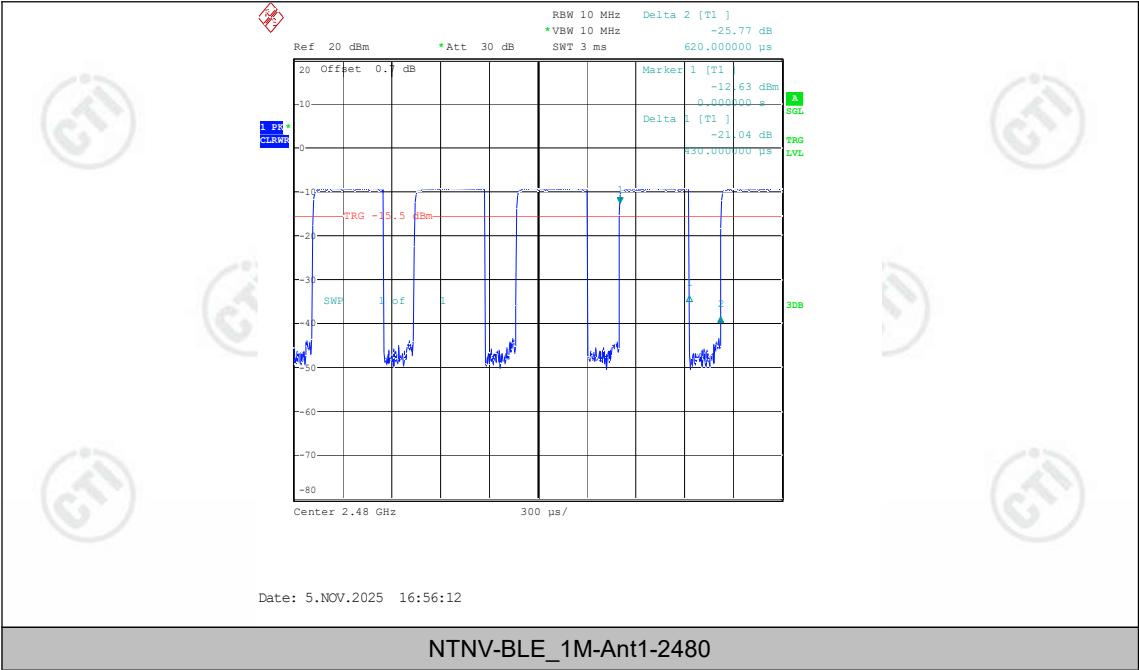
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.43	0.63	68.25	1.66
BLE_1M	Ant1	2440	0.43	0.63	68.25	1.66
BLE_1M	Ant1	2480	0.43	0.62	69.35	1.59

Test Graphs





*** End of Report ***