

Appendix: Bluetooth LE

Contents

Appendix A: DTS Bandwidth 3

 Test Result 3

 Test Graphs 4

Appendix B: Occupied Channel Bandwidth 6

 Test Result 6

 Test Graphs 7

Appendix C: Maximum conducted output power 9

 Test Result Peak 9

 Test Graphs Peak 10

Appendix D: Maximum power spectral density 12

 Test Result 12

 Test Graphs 13

Appendix F: Band edge measurements 15

 Test Result 15

 Test Graphs 16

Appendix G: Conducted Spurious Emission 17

 Test Result 17

 Test Graphs 18

Appendix H: Duty Cycle 23

 Test Result 23

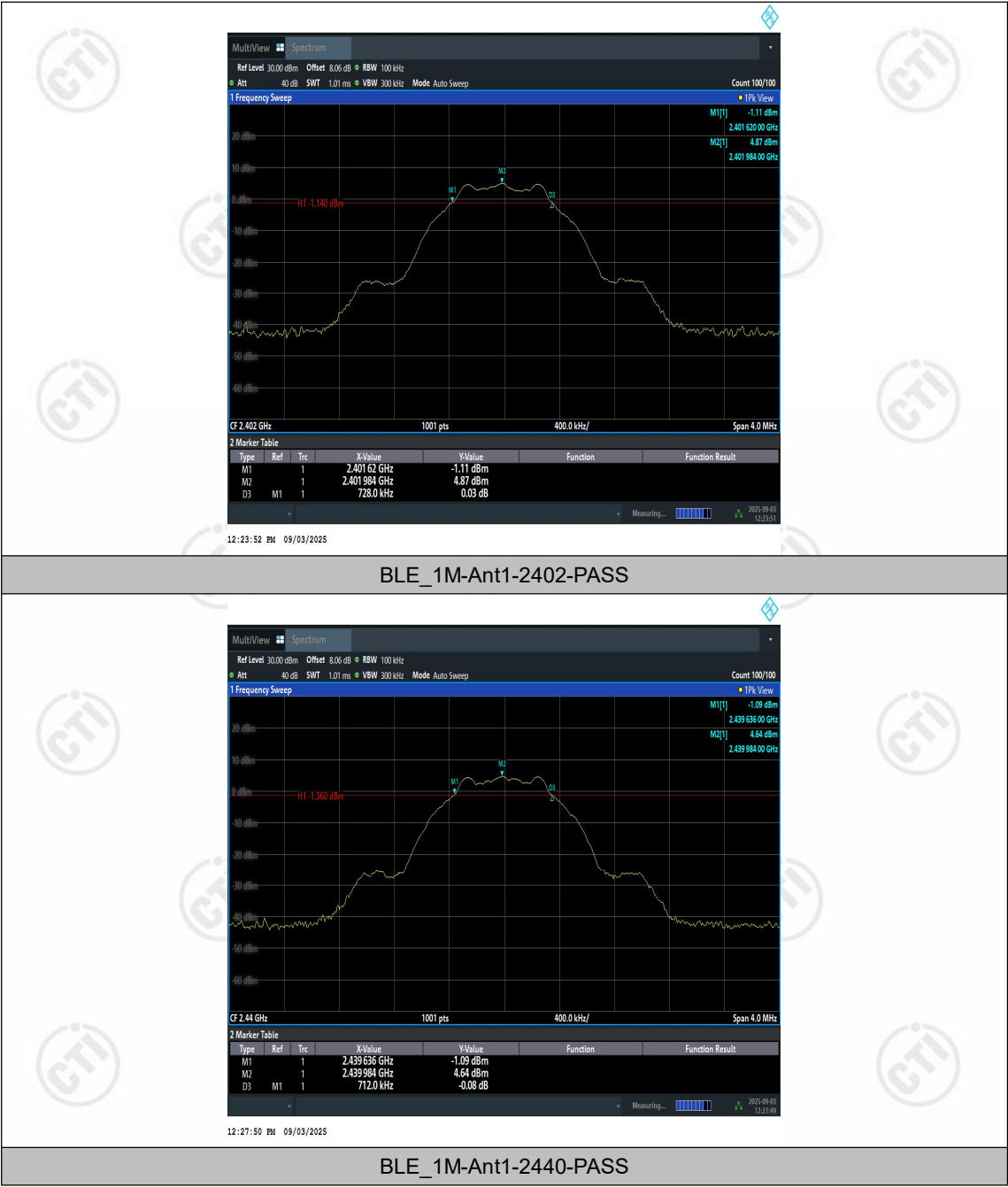
 Test Graphs 24

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.73	2401.62	2402.35	0.5	PASS
BLE_1M	Ant1	2440	0.71	2439.64	2440.35	0.5	PASS
BLE_1M	Ant1	2480	0.73	2479.62	2480.35	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	1.0394	2401.4773	2402.5167	---	---
BLE_1M	Ant1	2440	1.0491	2439.4678	2440.5169	---	---
BLE_1M	Ant1	2480	1.0483	2479.4679	2480.5163	---	---

Test Graphs





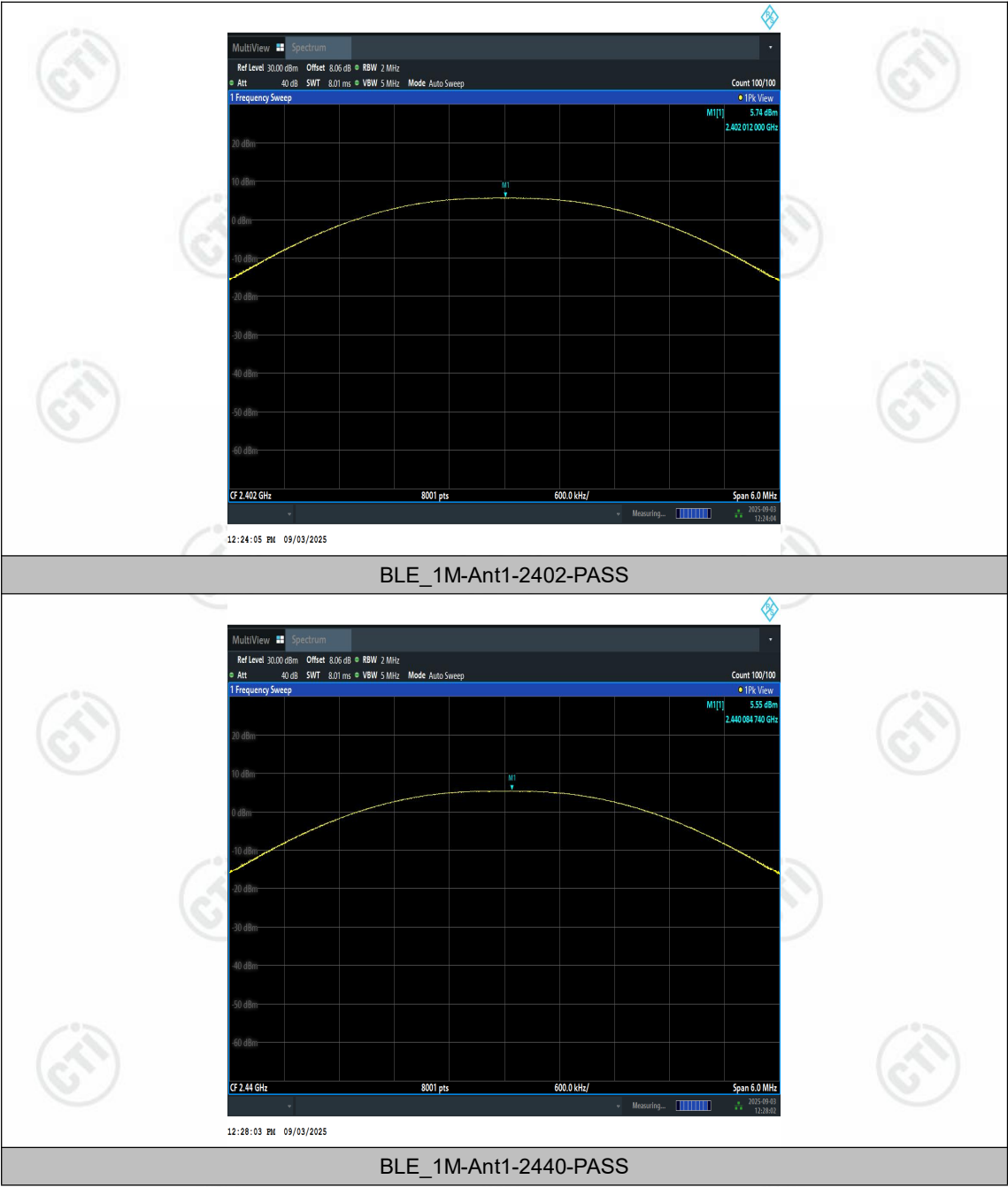
BLE_1M-Ant1-2480

Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.74	≤30	PASS
BLE_1M	Ant1	2440	5.55	≤30	PASS
BLE_1M	Ant1	2480	5.20	≤30	PASS

Test Graphs Peak



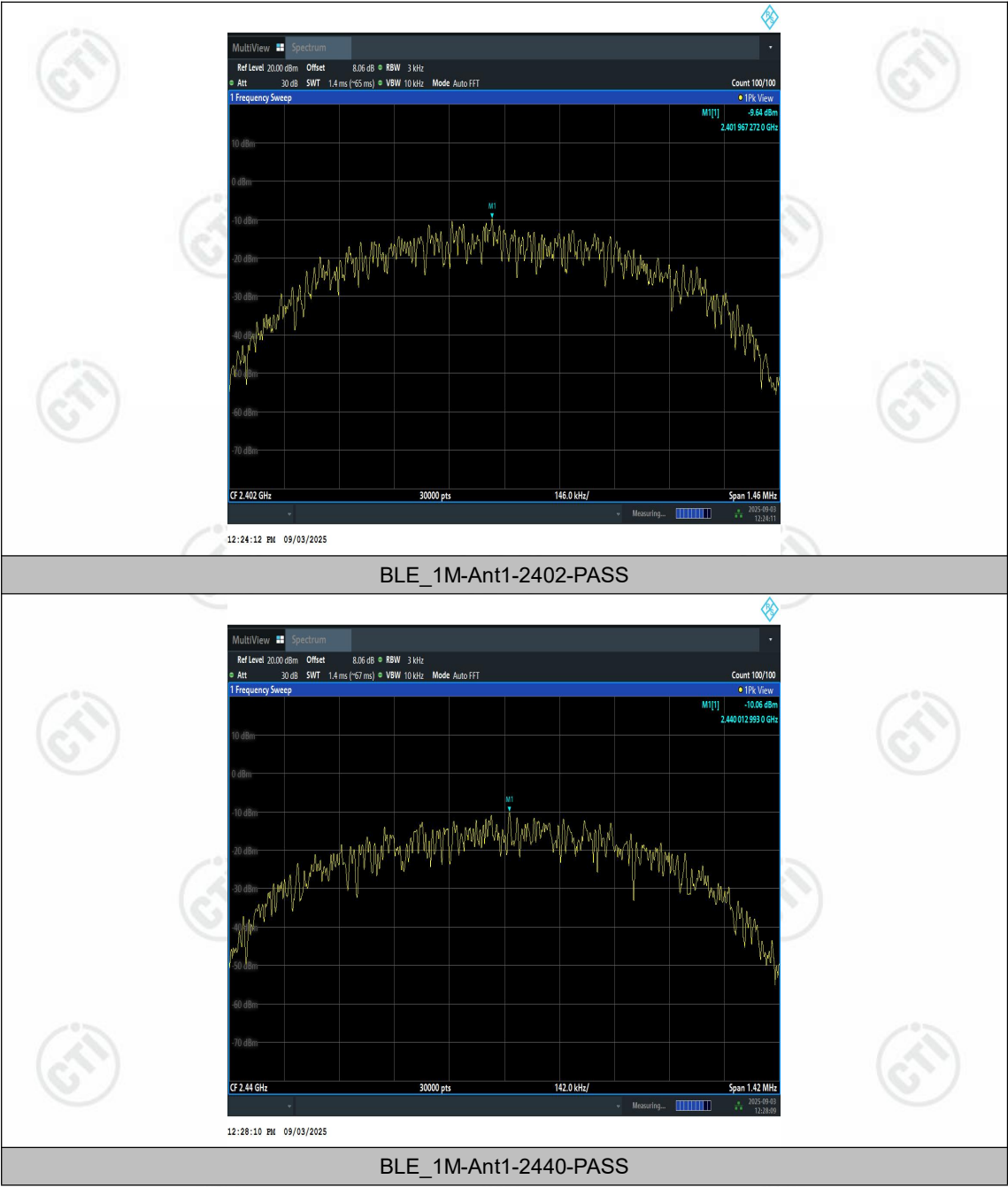


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.64	≤8.00	PASS
BLE_1M	Ant1	2440	-10.06	≤8.00	PASS
BLE_1M	Ant1	2480	-10.38	≤8.00	PASS

Test Graphs





Appendix F: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.86	-47.25	≤-15.14	PASS
BLE_1M	Ant1	High	2480	4.32	-49.96	≤-15.68	PASS

Test Graphs

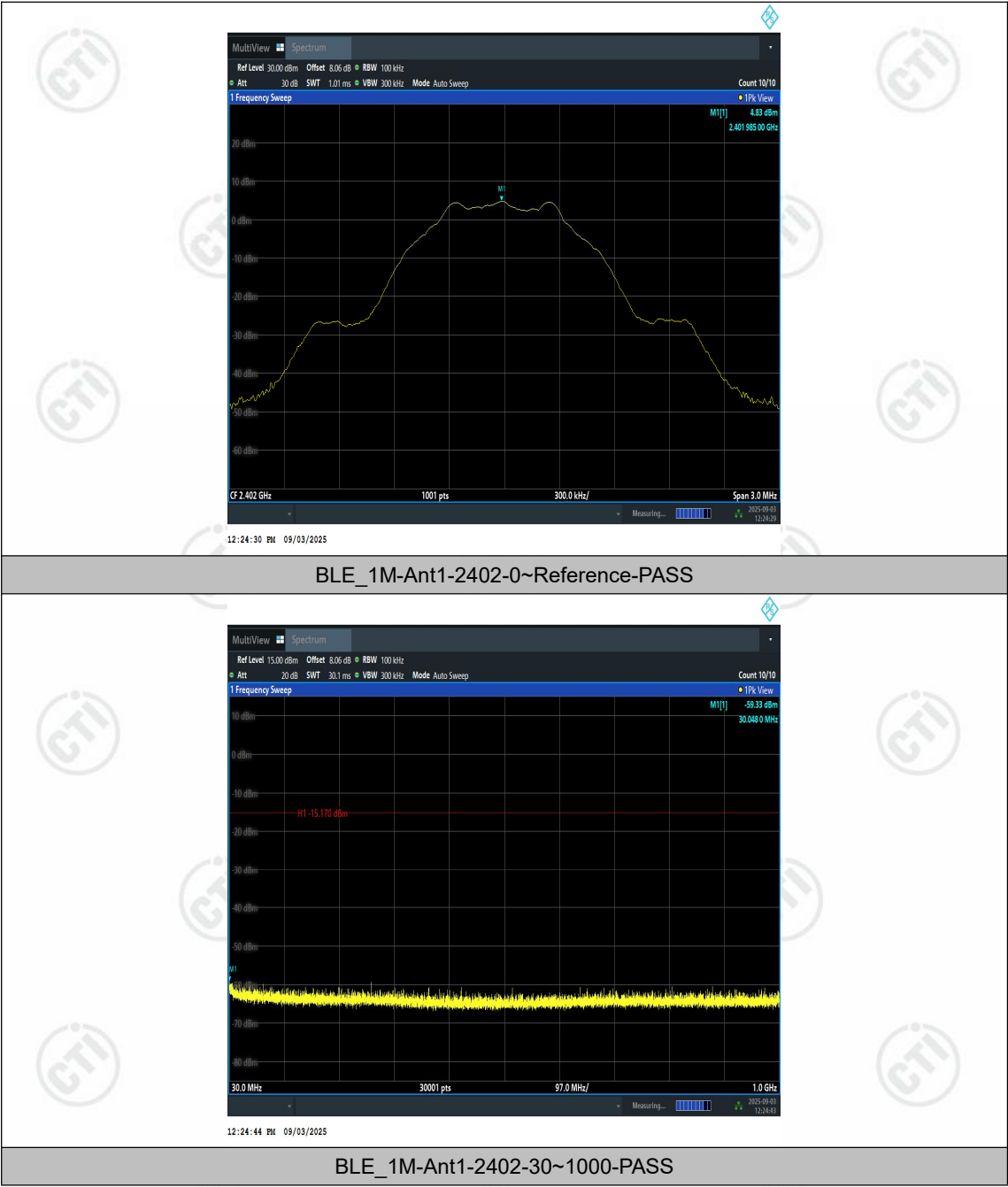


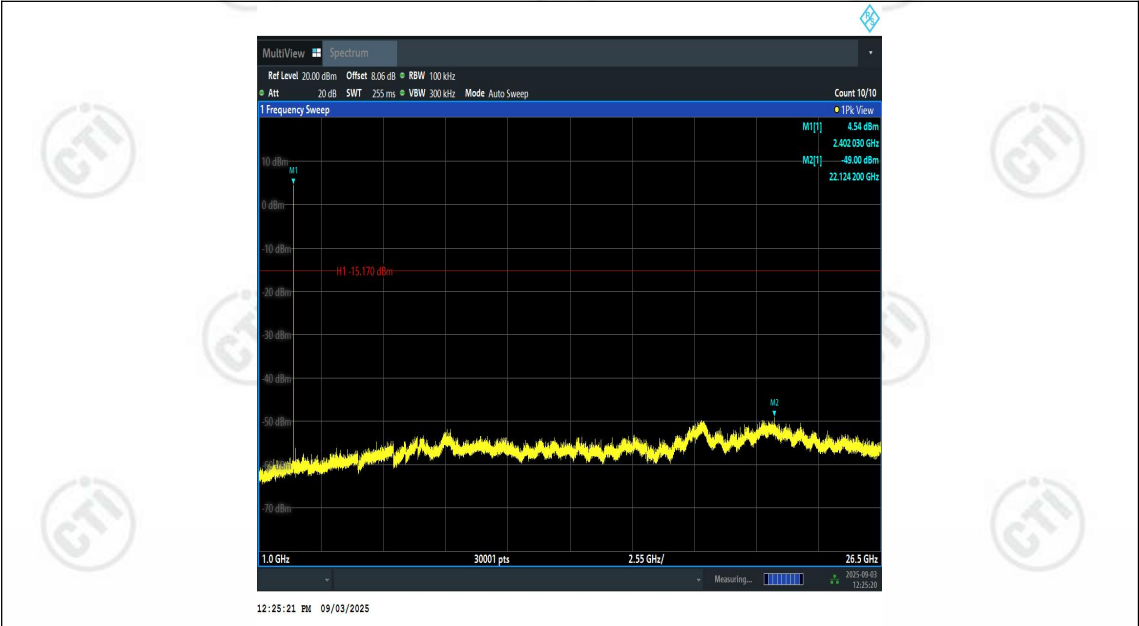
Appendix G: Conducted Spurious Emission

Test Result

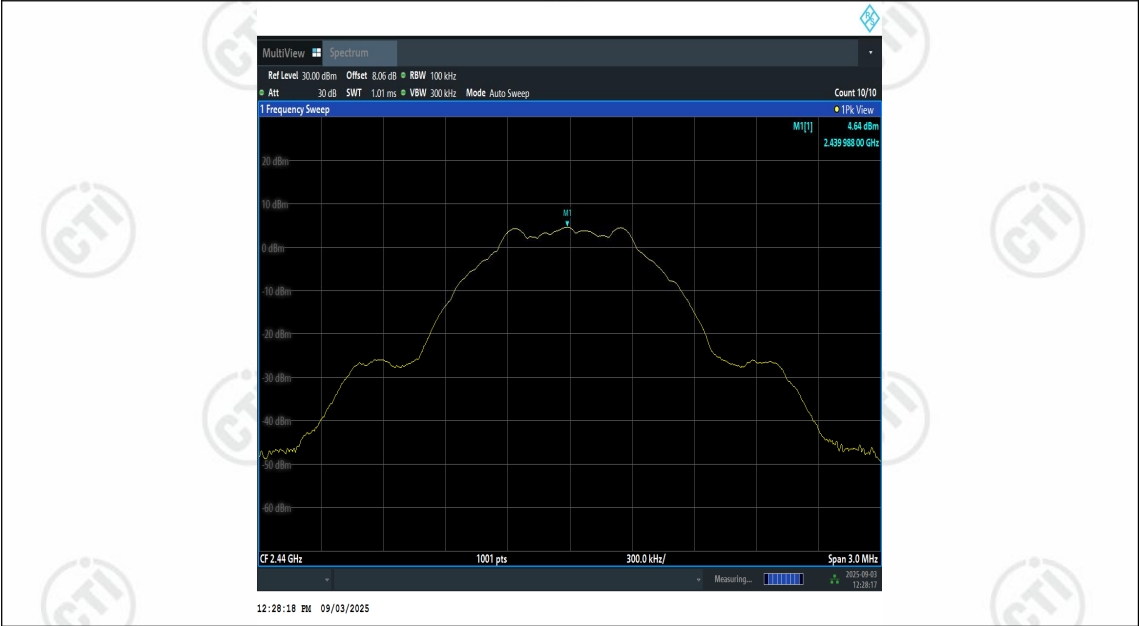
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	4.83	4.83	---	PASS
BLE_1M	Ant1	2402	30~1000	4.83	-59.33	≤-15.17	PASS
BLE_1M	Ant1	2402	1000~26500	4.83	-49	≤-15.17	PASS
BLE_1M	Ant1	2440	0~Reference	4.64	4.64	---	PASS
BLE_1M	Ant1	2440	30~1000	4.64	-58.76	≤-15.36	PASS
BLE_1M	Ant1	2440	1000~26500	4.64	-48.63	≤-15.36	PASS
BLE_1M	Ant1	2480	0~Reference	4.25	4.25	---	PASS
BLE_1M	Ant1	2480	30~1000	4.25	-56.52	≤-15.75	PASS
BLE_1M	Ant1	2480	1000~26500	4.25	-48.94	≤-15.75	PASS

Test Graphs





BLE_1M-Ant1-2402-1000~26500-PASS



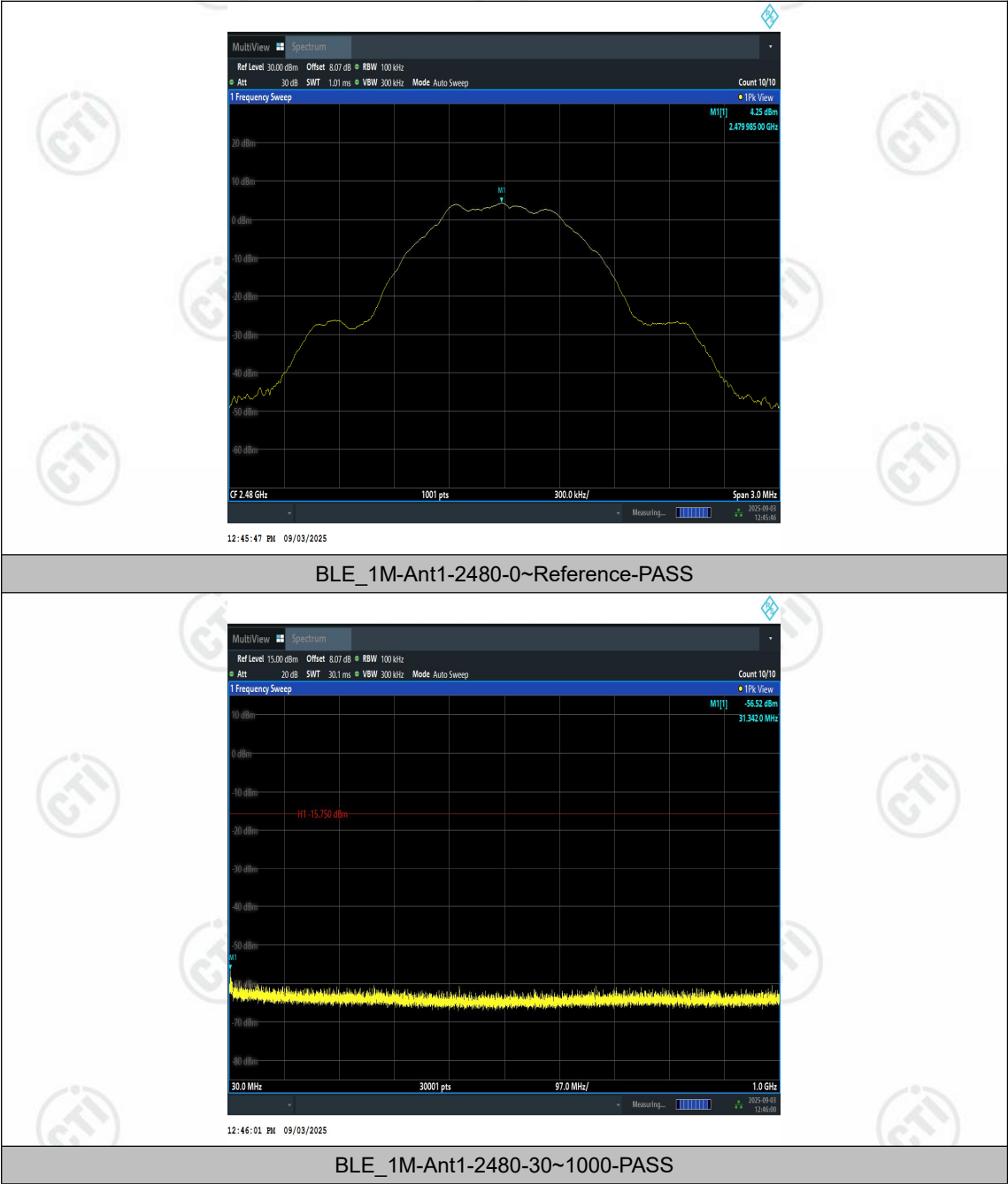
BLE_1M-Ant1-2440-0~Reference-PASS

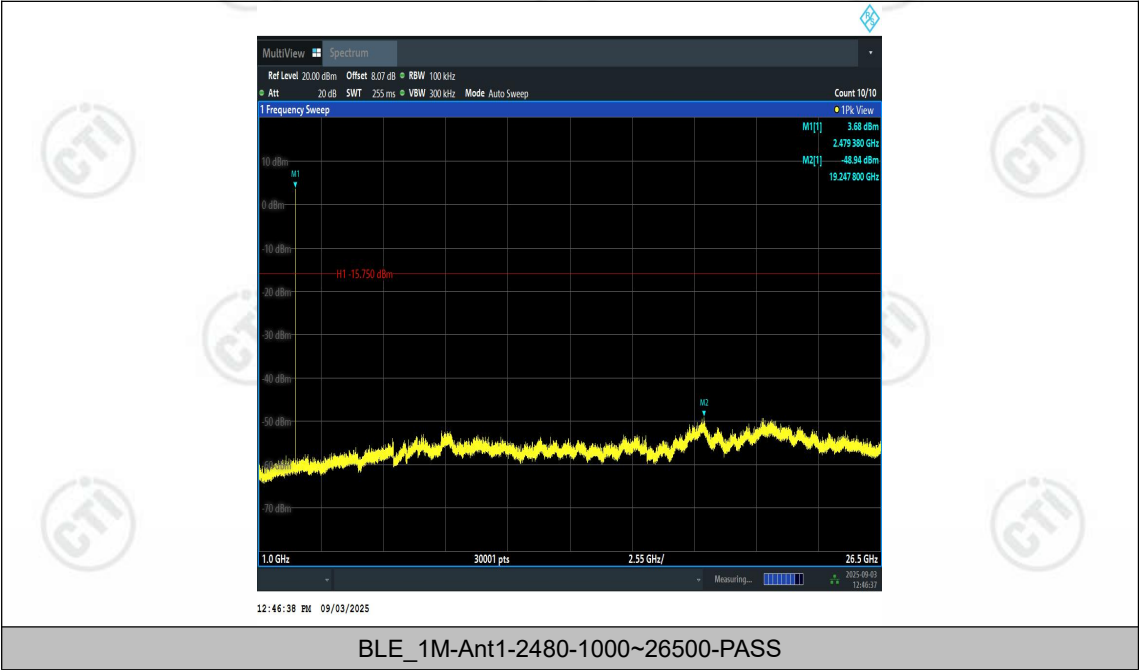


BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS





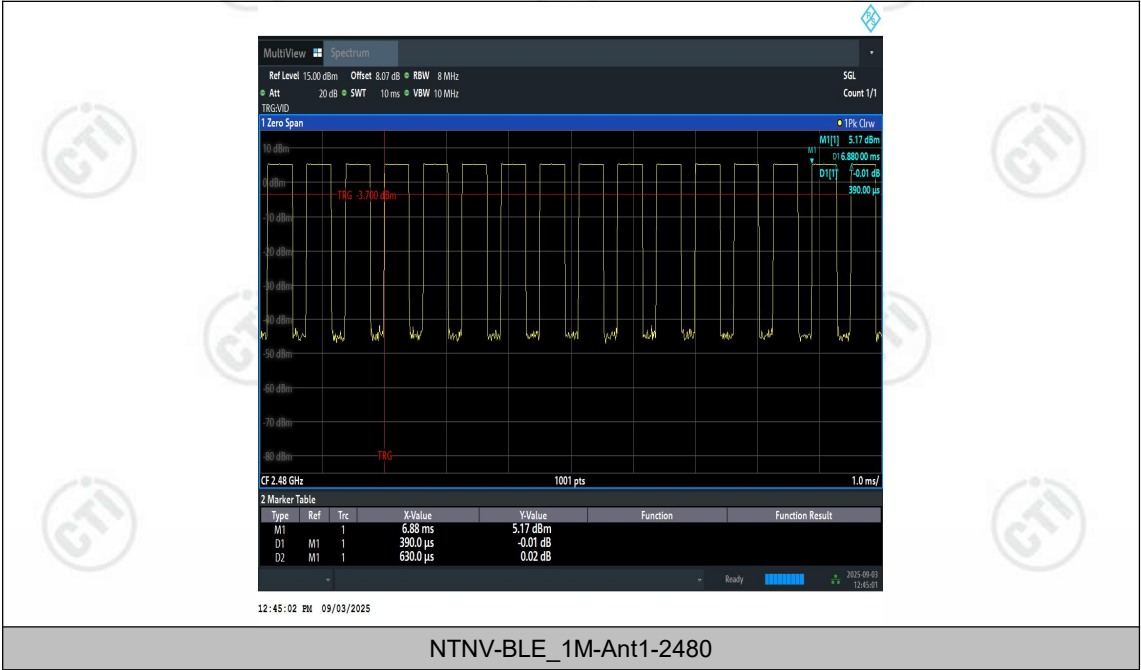
Appendix H: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2440	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08

Test Graphs





*** End of Report ***