

Appendix: Bluetooth LE

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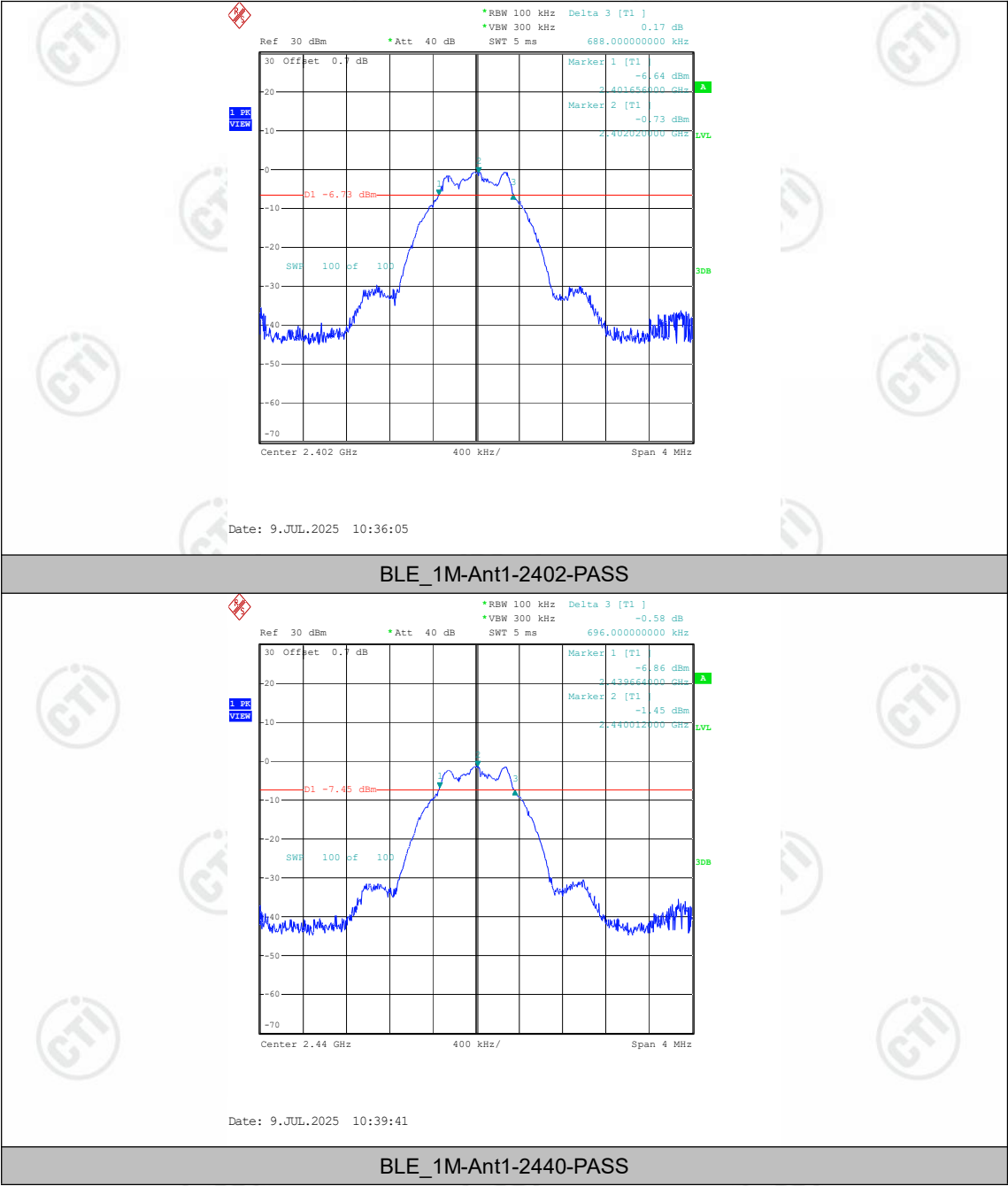
 Test Result 32

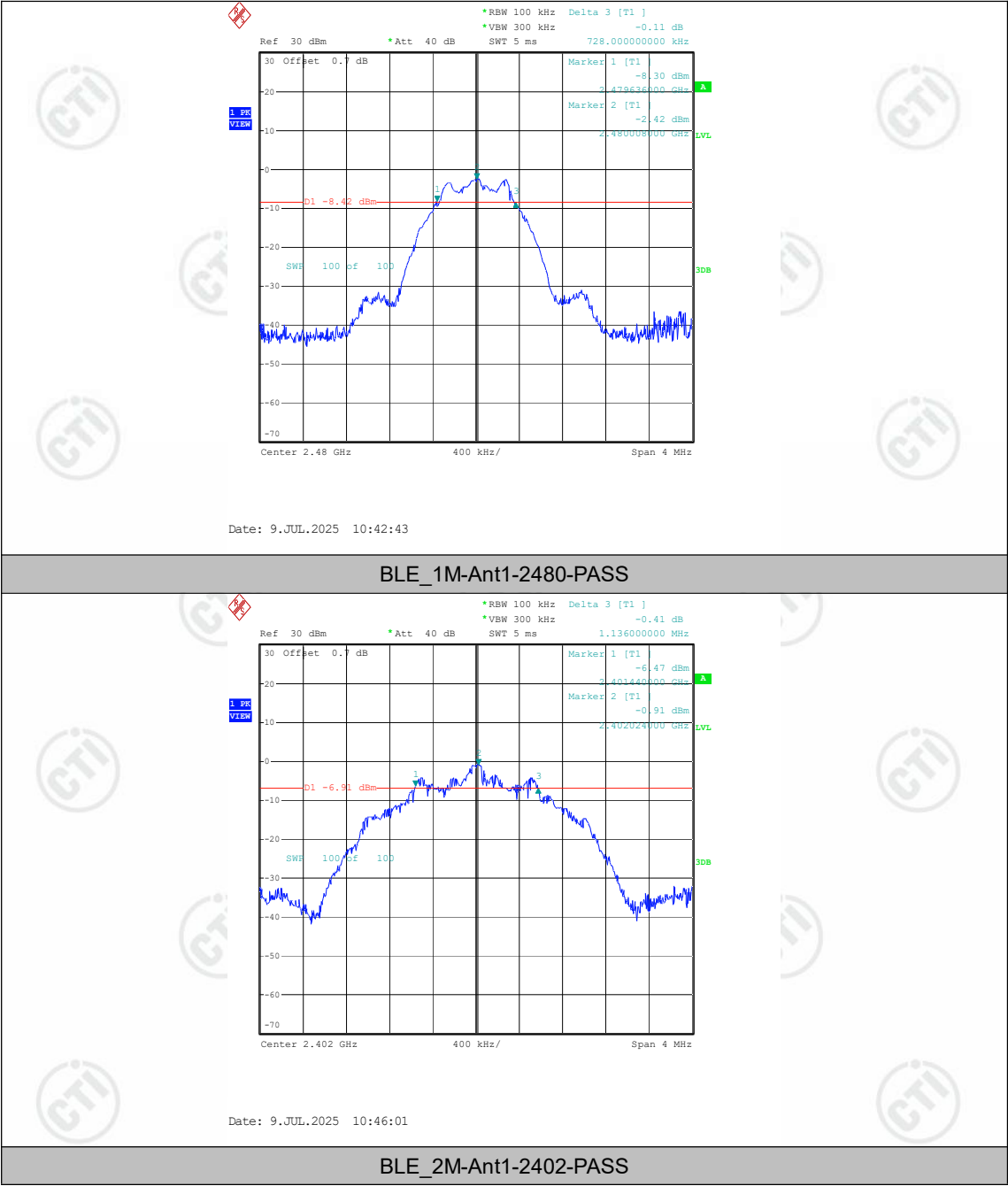
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Appendix A: DTS Bandwidth**Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.69	2401.66	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.70	2439.66	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.73	2479.64	2480.36	0.5	PASS
BLE_2M	Ant1	2402	1.14	2401.44	2402.58	0.5	PASS
BLE_2M	Ant1	2440	1.14	2439.44	2440.58	0.5	PASS
BLE_2M	Ant1	2480	1.12	2479.44	2480.57	0.5	PASS

Test Graphs







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Appendix B: Occupied Channel Bandwidth**Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0360	2401.488	2402.524	---	---
BLE_1M	Ant1	2440	1.0400	2439.484	2440.524	---	---
BLE_1M	Ant1	2480	1.0440	2479.480	2480.524	---	---
BLE_2M	Ant1	2402	2.0400	2400.992	2403.320	---	---
BLE_2M	Ant1	2440	2.0480	2438.988	2441.036	---	---
BLE_2M	Ant1	2480	2.0440	2478.992	2481.036	---	---

BLE_1M-Ant1-2440

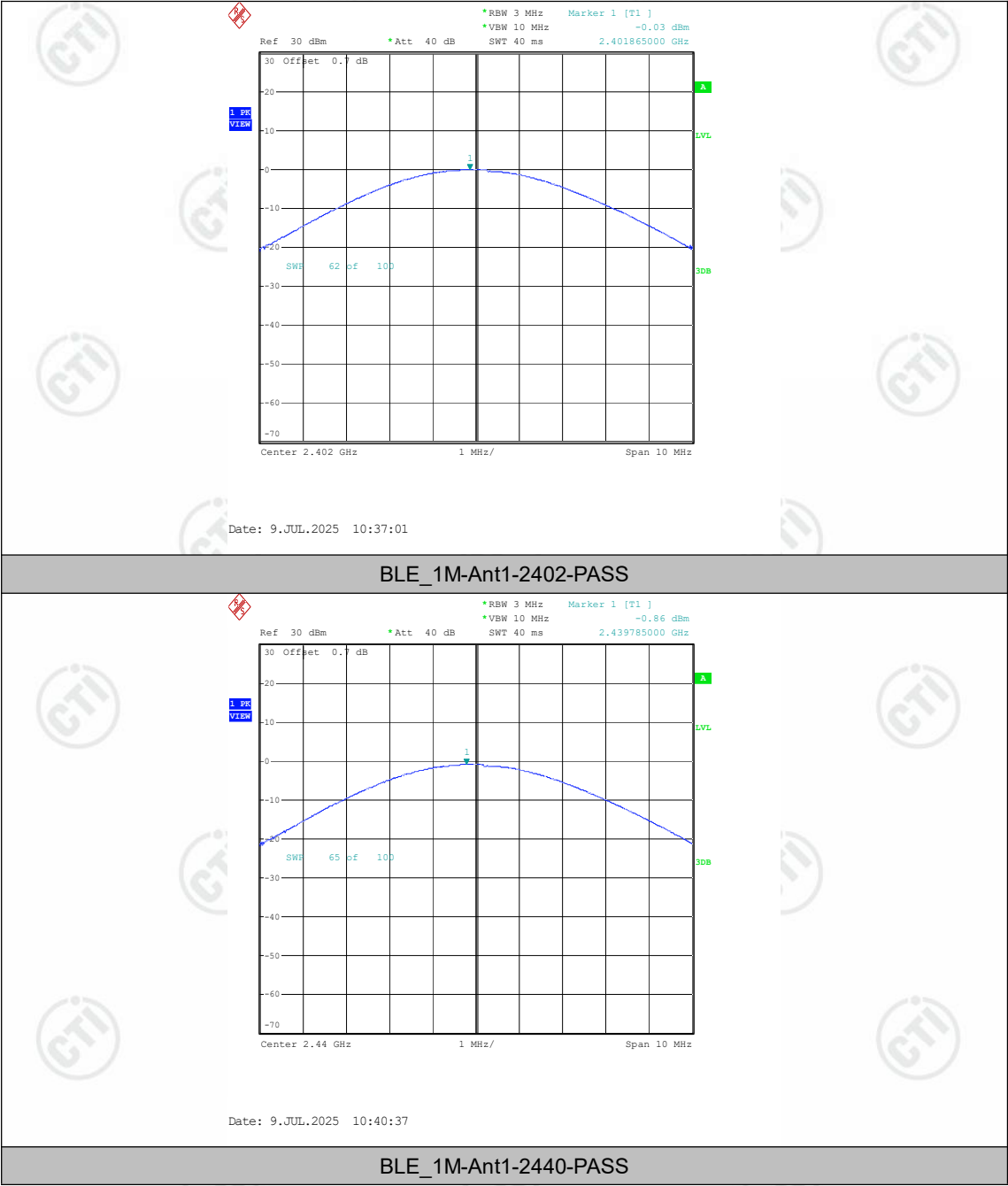




Appendix C: Maximum conducted output power**Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.03	≤30	PASS
BLE_1M	Ant1	2440	-0.86	≤30	PASS
BLE_1M	Ant1	2480	-1.91	≤30	PASS
BLE_2M	Ant1	2402	-0.19	≤30	PASS
BLE_2M	Ant1	2440	-0.96	≤30	PASS
BLE_2M	Ant1	2480	-2.07	≤30	PASS

Test Graphs Peak





Ref 30 dBm • Att 40 dB • RBW 3 MHz Marker 1 [T1] -0.19 dBm
 • VBN 10 MHz SWT 40 ms 2.401937500 GHz

30 Offset 0. dB

1 99
VIEW

SWT 61 sf 10 D

Center 2.402 GHz 1 MHz/ Span 10 MHz

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BLE_2M-Ant1-2402-PASS



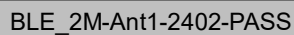
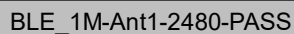
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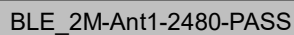
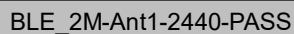
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Appendix D: Maximum power spectral density**Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.47	≤8.00	PASS
BLE_1M	Ant1	2440	-17.10	≤8.00	PASS
BLE_1M	Ant1	2480	-17.94	≤8.00	PASS
BLE_2M	Ant1	2402	-19.77	≤8.00	PASS
BLE_2M	Ant1	2440	-20.07	≤8.00	PASS
BLE_2M	Ant1	2480	-20.77	≤8.00	PASS

BLE_1M-Ant1-2440-PASS



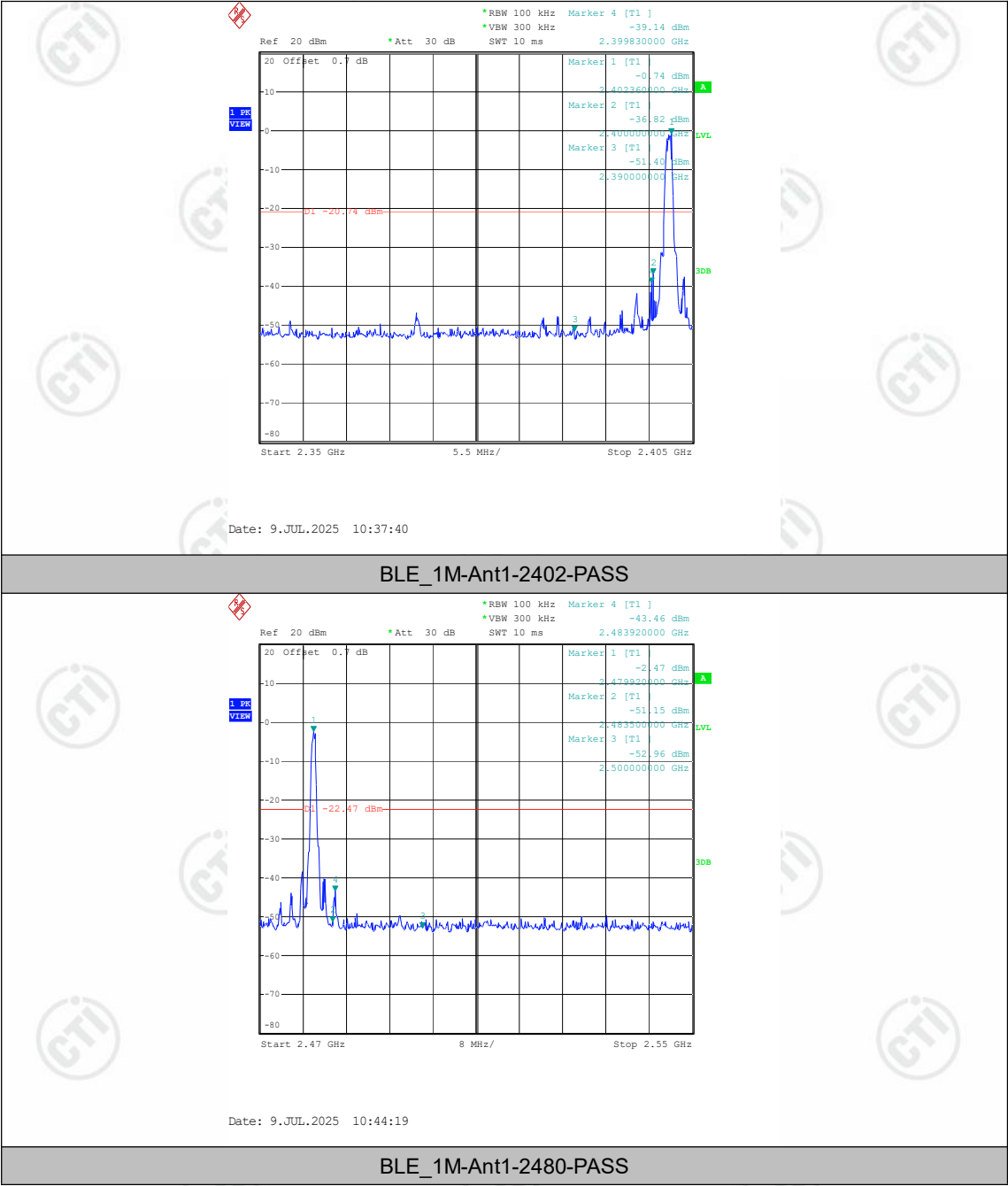


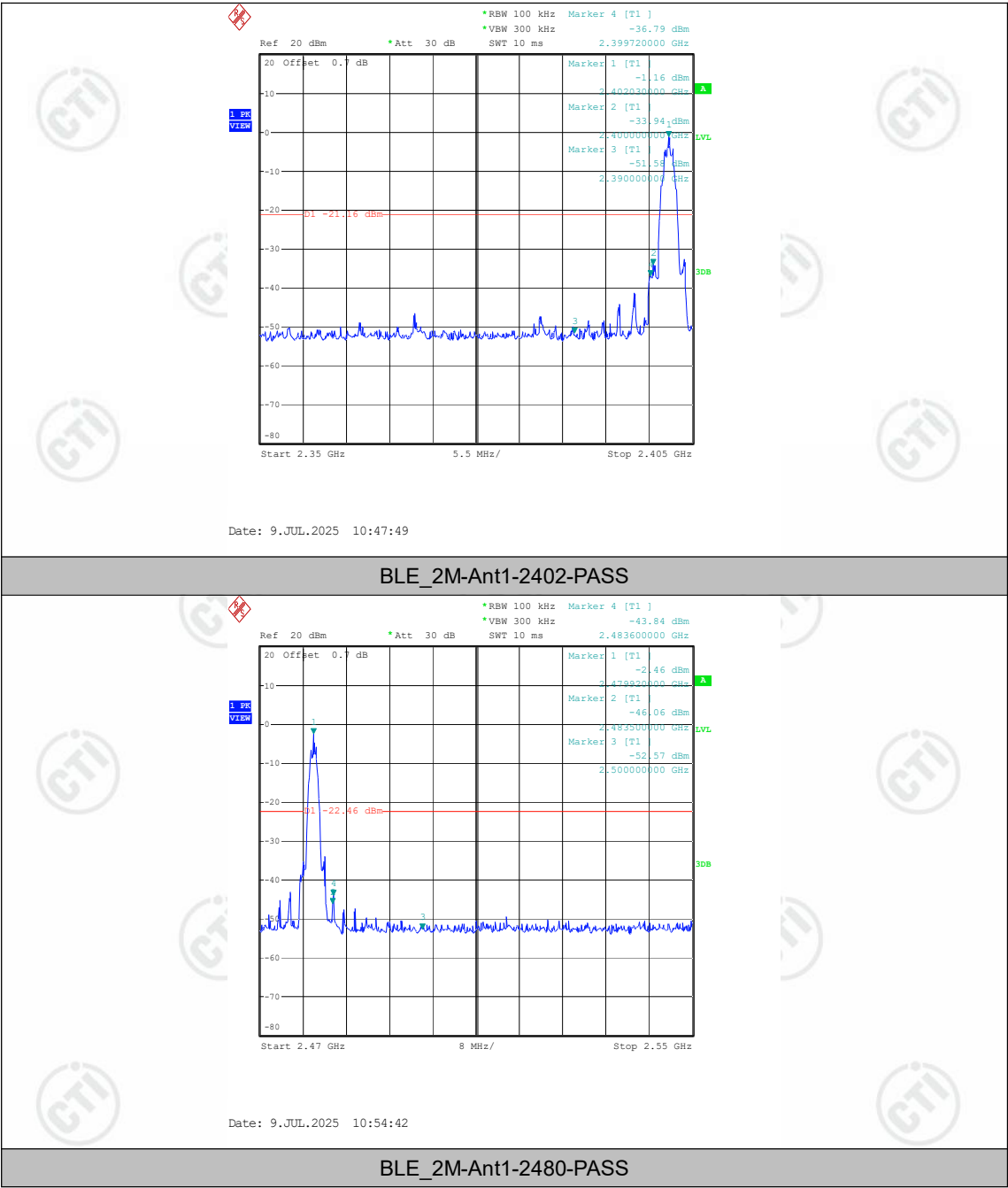
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.74	-39.14	≤-20.74	PASS
BLE_1M	Ant1	High	2480	-2.47	-43.46	≤-22.47	PASS
BLE_2M	Ant1	Low	2402	-1.16	-36.79	≤-21.16	PASS
BLE_2M	Ant1	High	2480	-2.46	-43.84	≤-22.46	PASS

Test Graphs



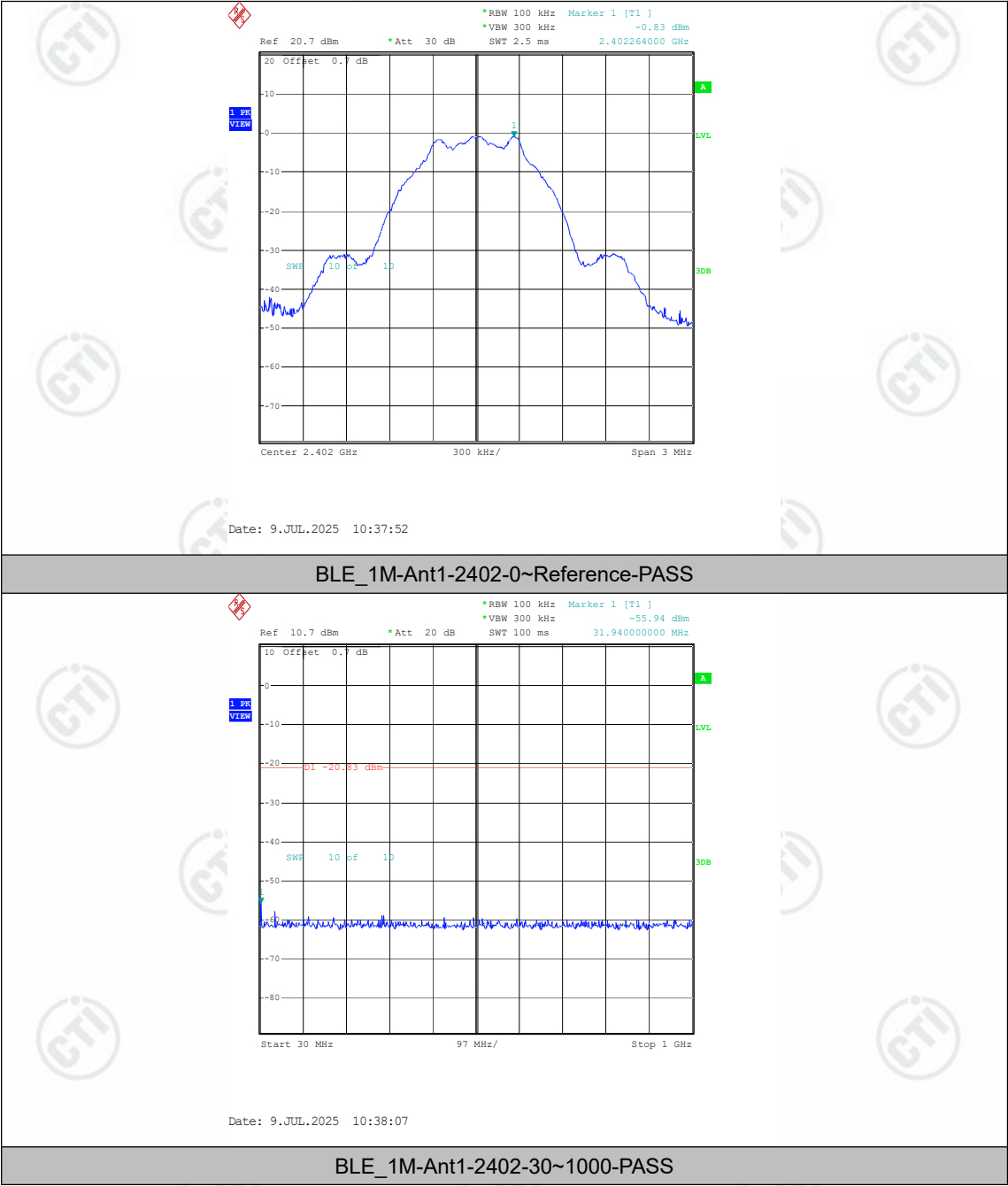


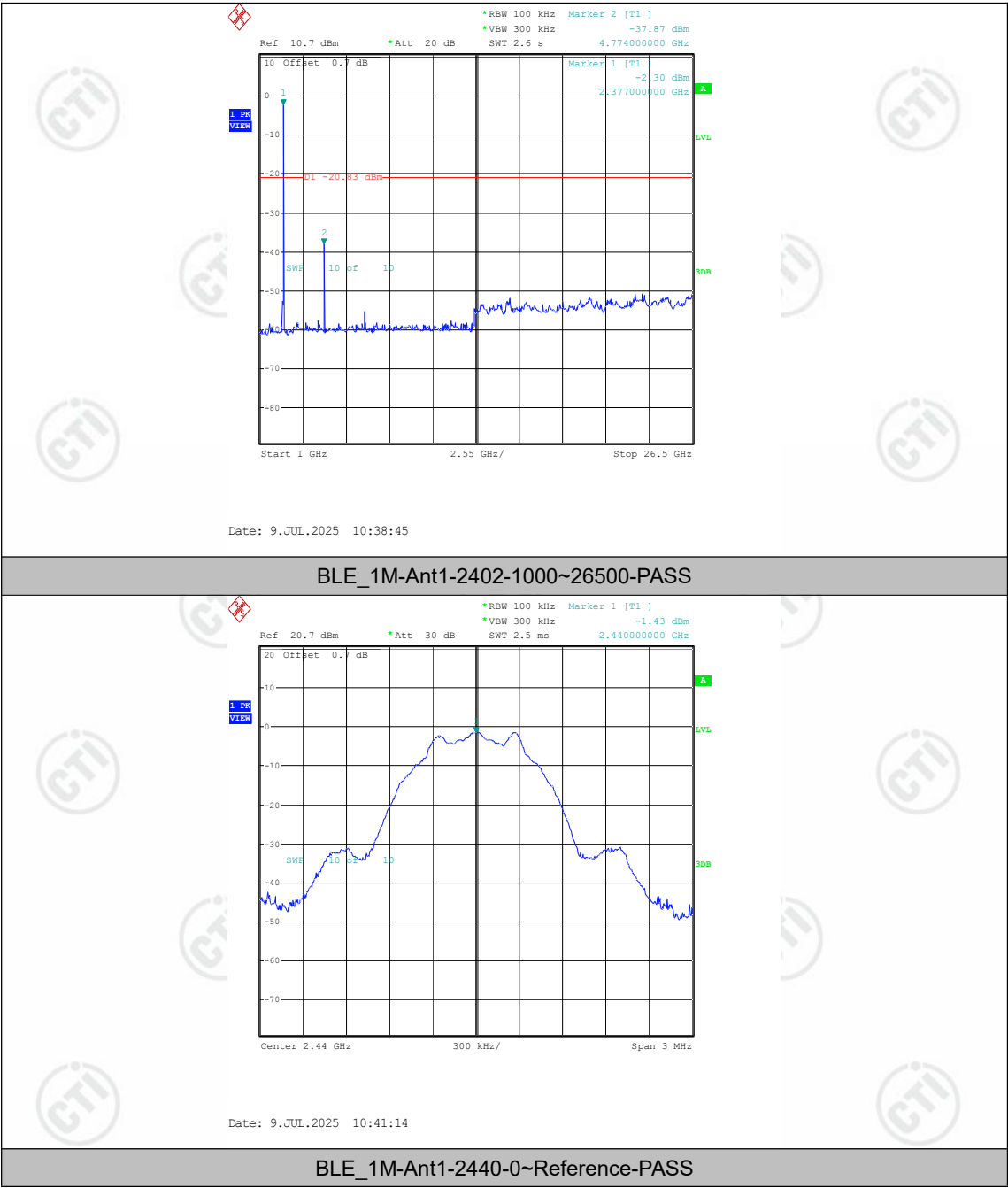
Appendix F: Conducted Spurious Emission

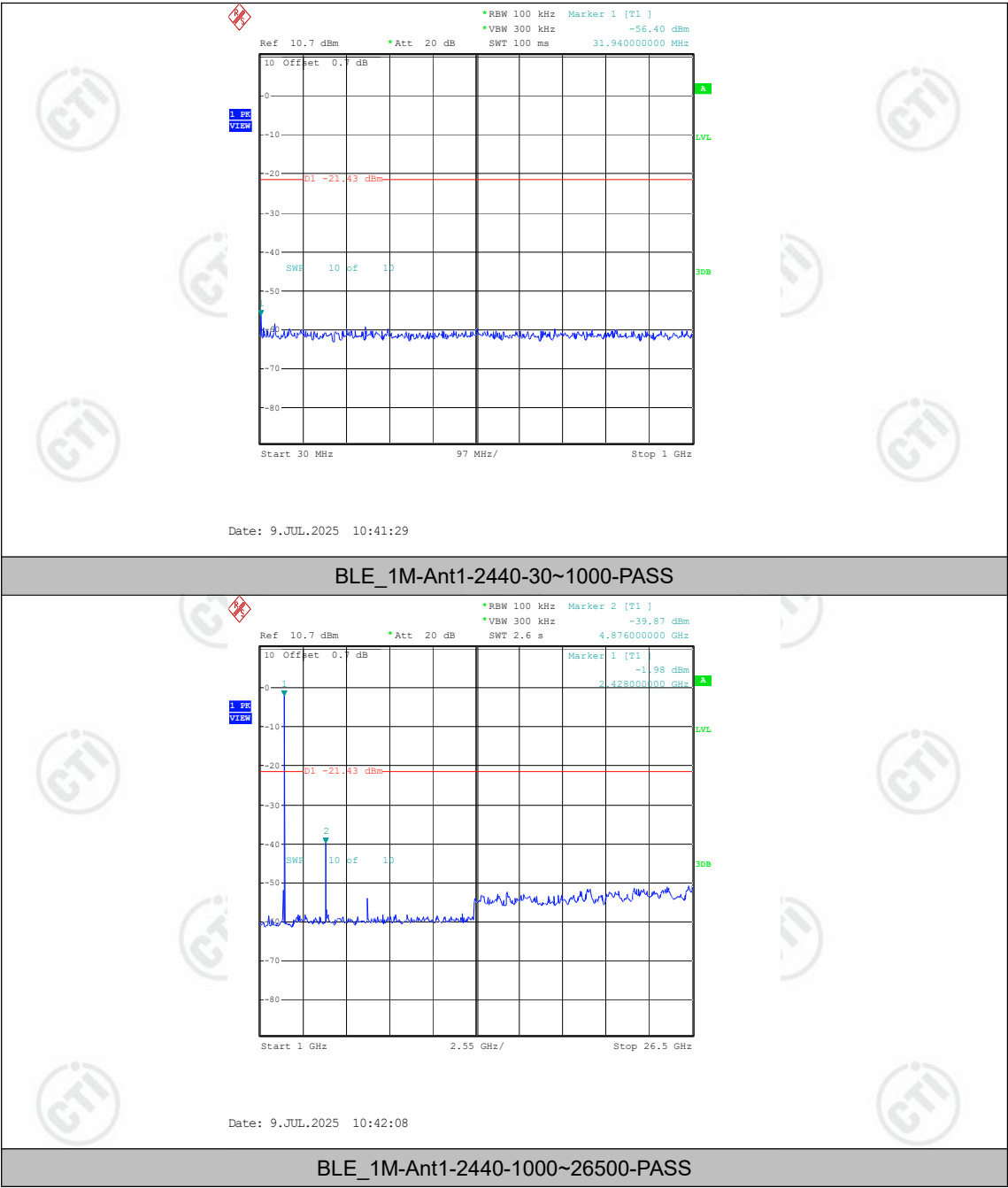
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.83	-0.83	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.83	-55.94	≤-20.83	PASS
BLE_1M	Ant1	2402	1000~26500	-0.83	-37.87	≤-20.83	PASS
BLE_1M	Ant1	2440	0~Reference	-1.43	-1.43	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.43	-56.4	≤-21.43	PASS
BLE_1M	Ant1	2440	1000~26500	-1.43	-39.87	≤-21.43	PASS
BLE_1M	Ant1	2480	0~Reference	-2.21	-2.21	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.21	-56.79	≤-22.21	PASS
BLE_1M	Ant1	2480	1000~26500	-2.21	-39.75	≤-22.21	PASS
BLE_2M	Ant1	2402	0~Reference	-0.98	-0.98	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.98	-56.77	≤-20.98	PASS
BLE_2M	Ant1	2402	1000~26500	-0.98	-38.78	≤-20.98	PASS
BLE_2M	Ant1	2440	0~Reference	-1.53	-1.53	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.53	-55.98	≤-21.53	PASS
BLE_2M	Ant1	2440	1000~26500	-1.53	-38.36	≤-21.53	PASS
BLE_2M	Ant1	2480	0~Reference	-2.26	-2.26	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.26	-55.68	≤-22.26	PASS
BLE_2M	Ant1	2480	1000~26500	-2.26	-38.77	≤-22.26	PASS

Test Graphs



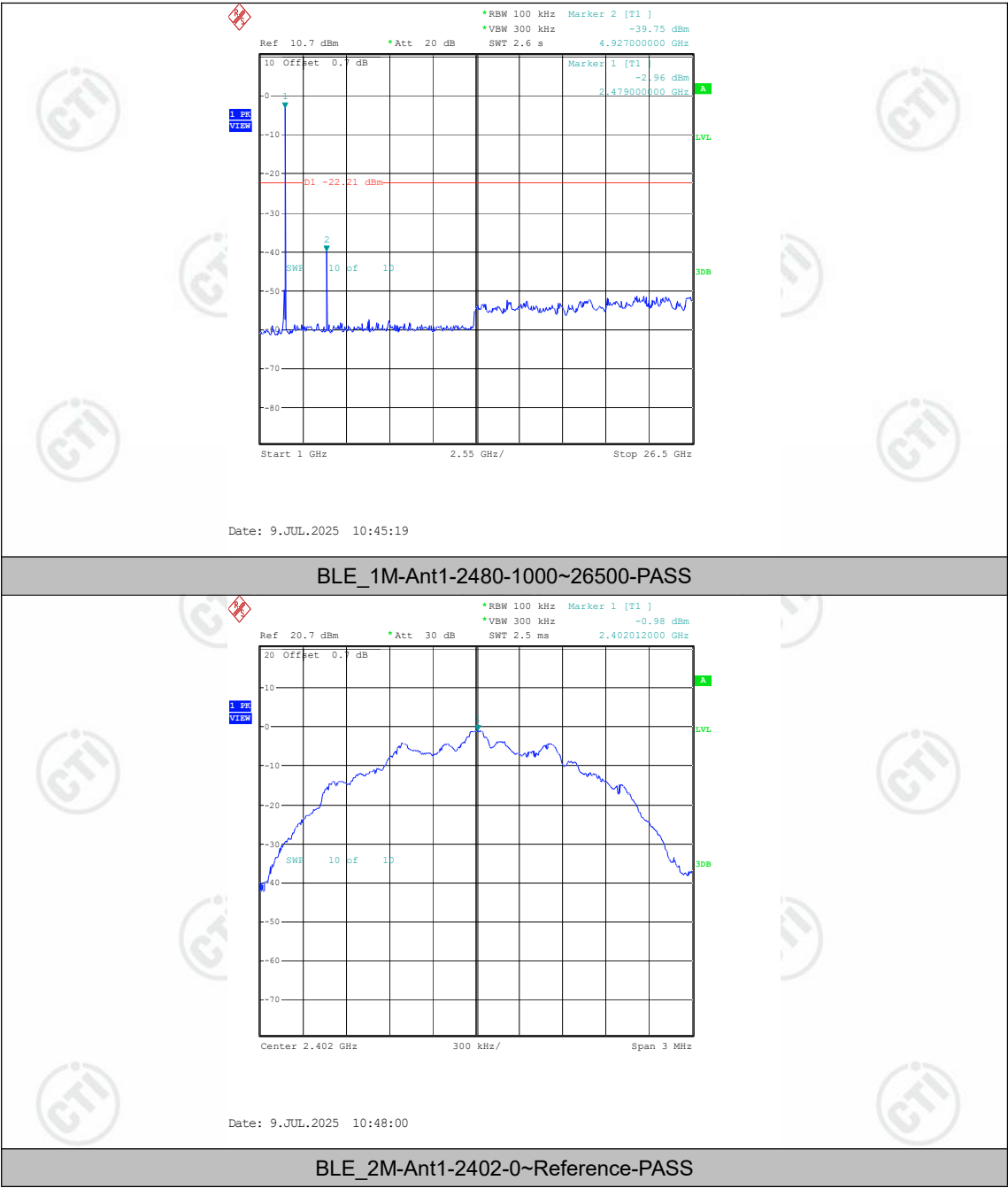






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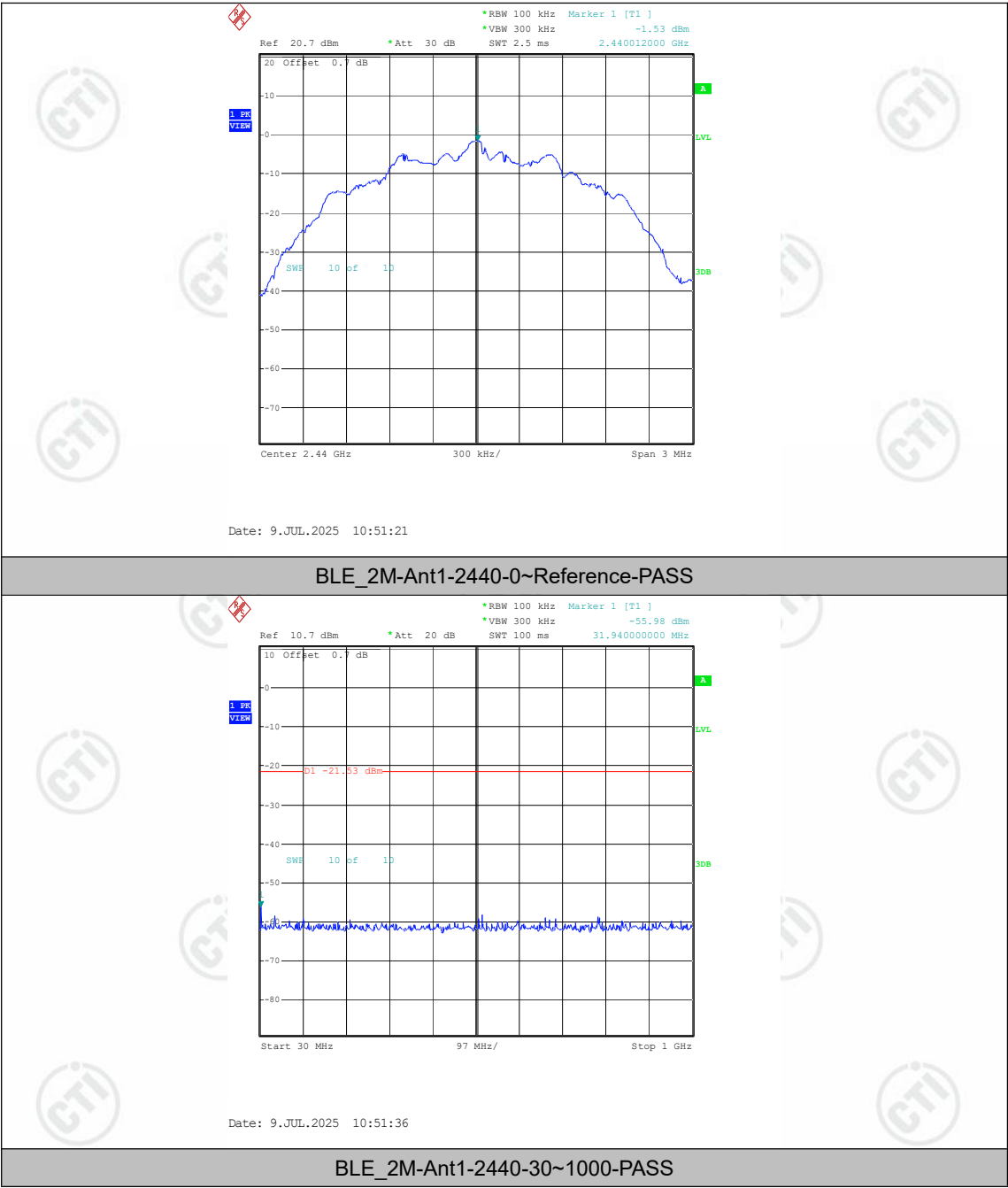
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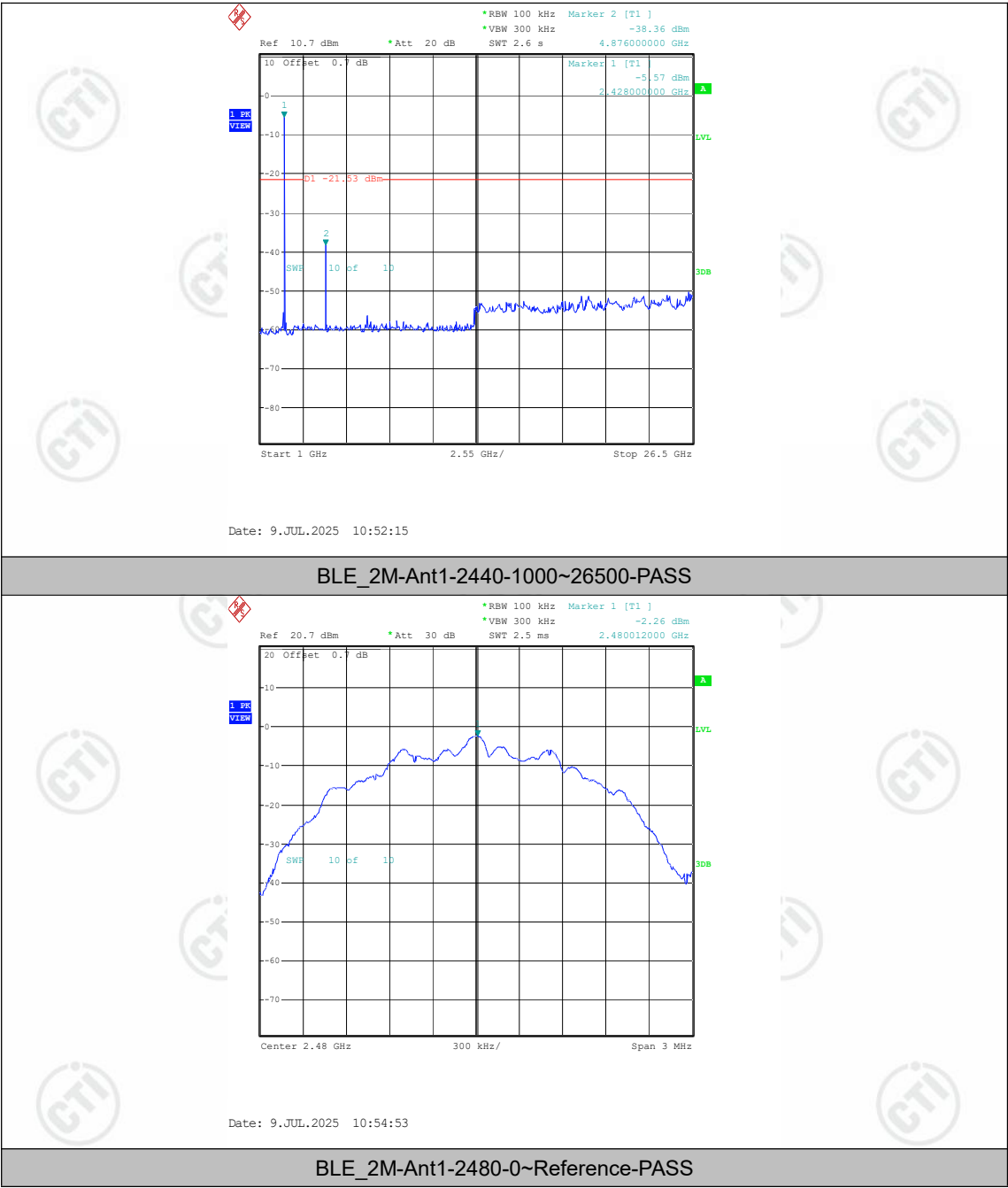


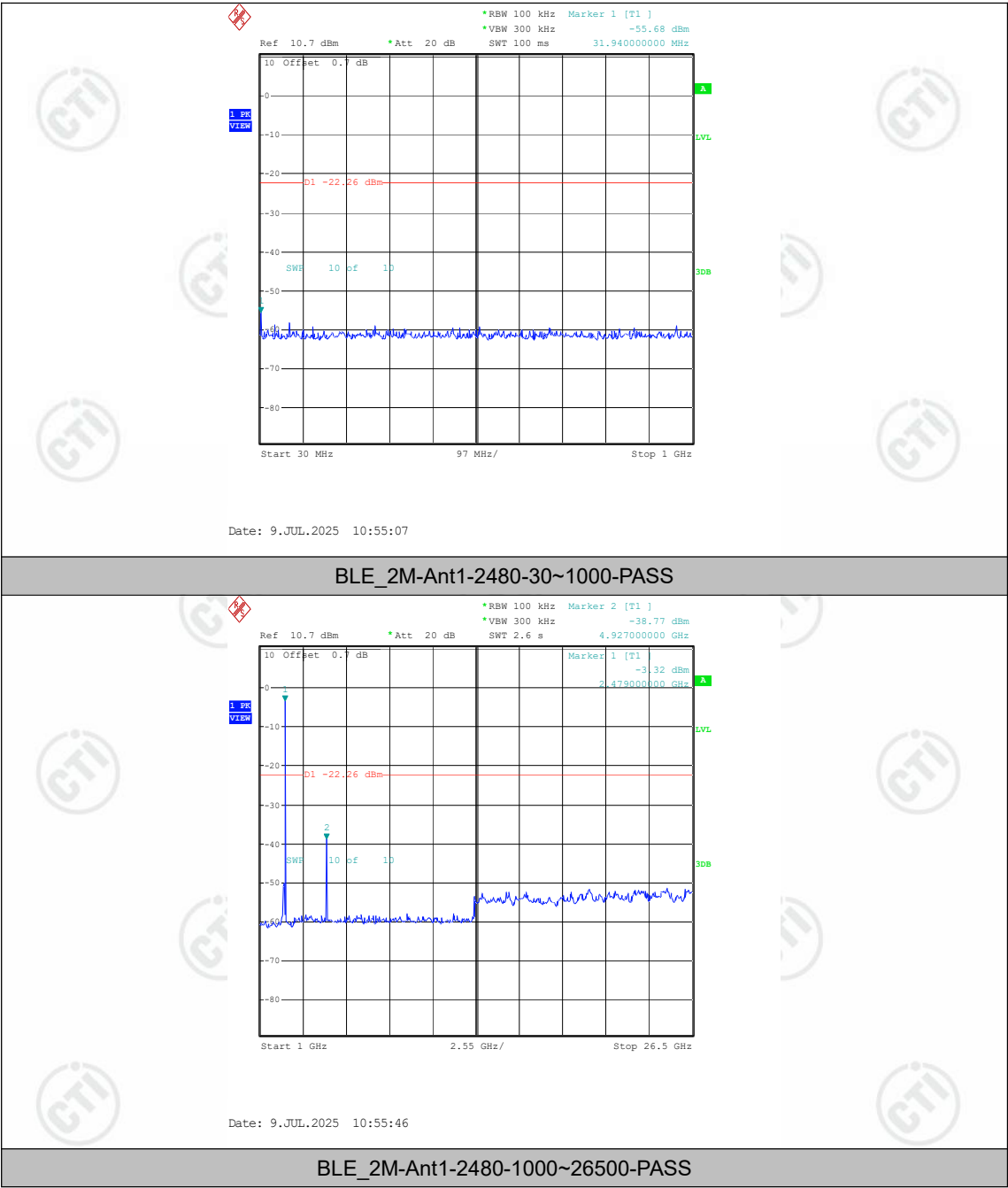


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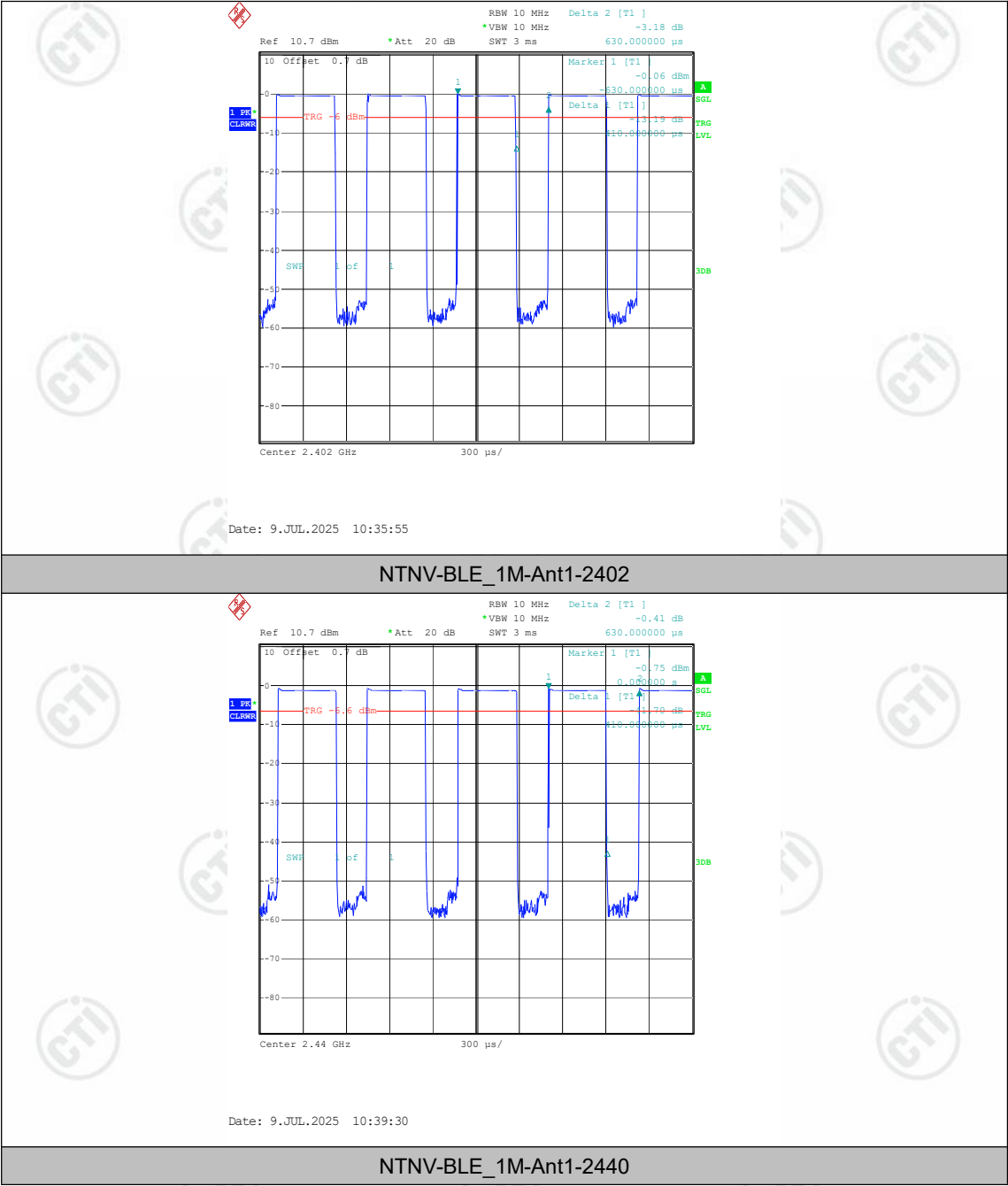


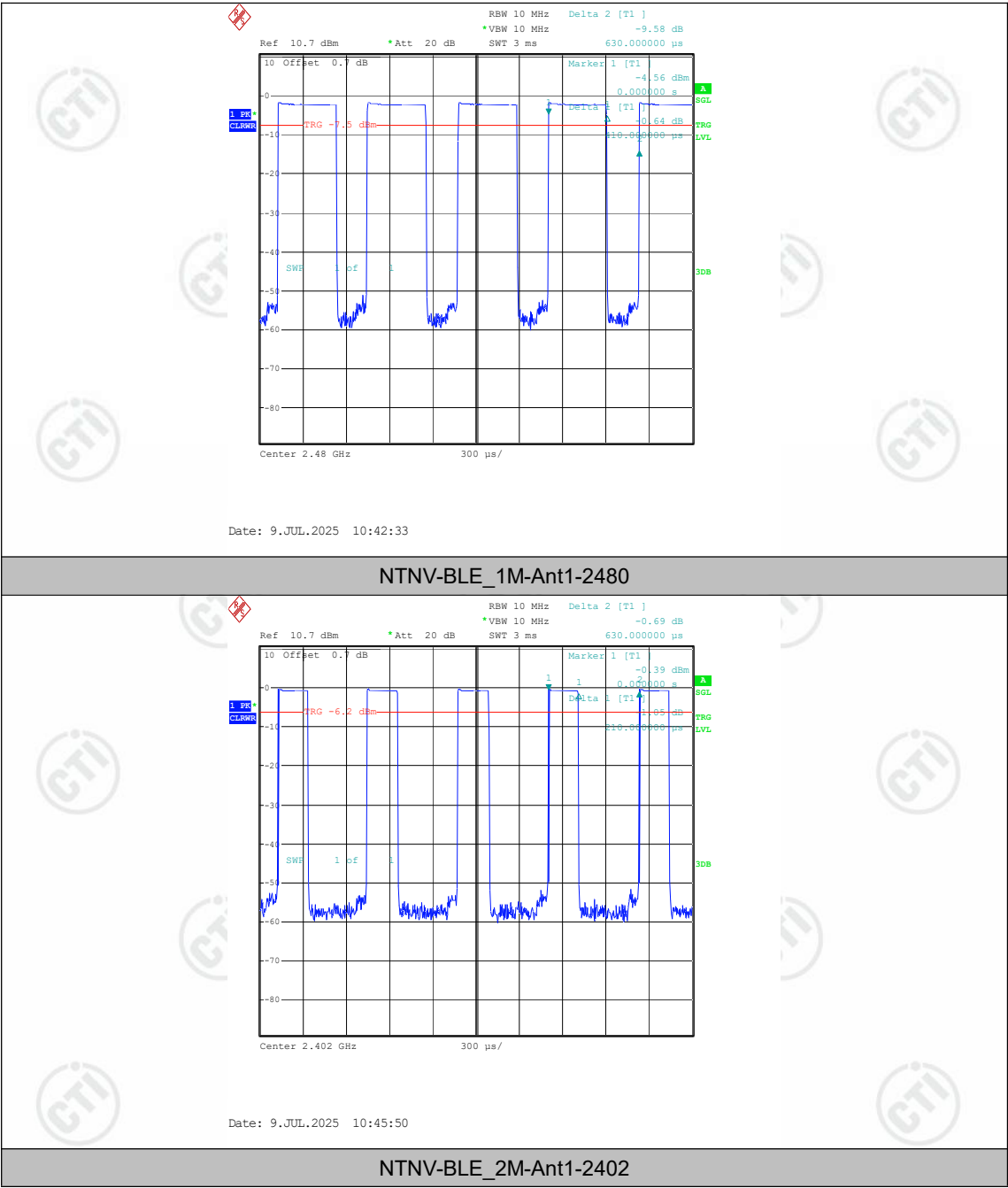


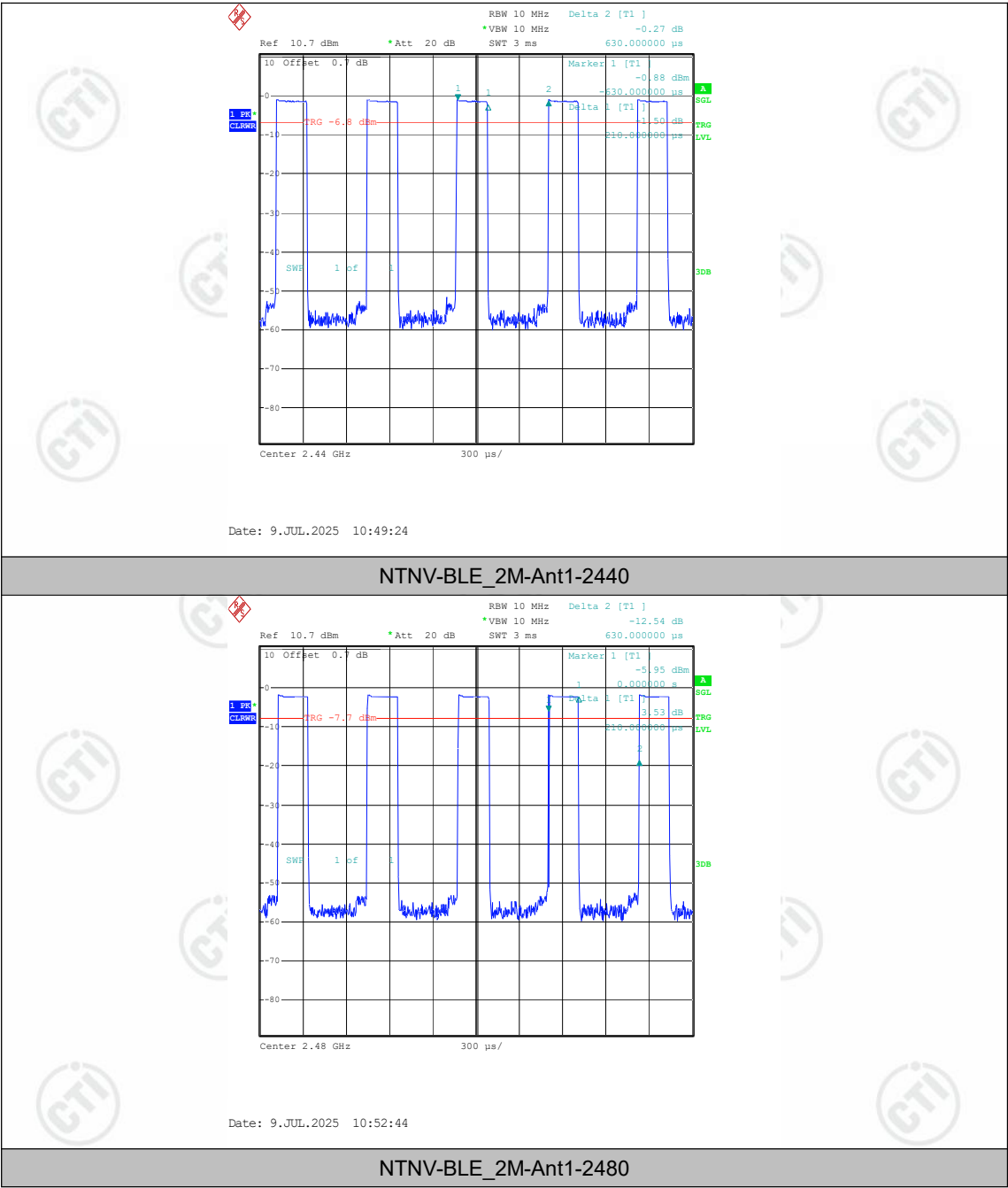
Appendix G: Duty Cycle**Test Result**

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	0.63	65.08	1.87
BLE_1M	Ant1	2440	0.41	0.63	65.08	1.87
BLE_1M	Ant1	2480	0.41	0.63	65.08	1.87
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480	0.21	0.63	33.33	4.77

Test Graphs







*** End of Report ***