

Appendix: Bluetooth LE

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Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.728	2402.416	0.5	PASS
		2440	0.712	2439.724	2440.436	0.5	PASS
		2480	0.696	2479.728	2480.424	0.5	PASS
BLE_2M	Ant1	2402	1.400	2401.376	2402.776	0.5	PASS
		2440	1.392	2439.380	2440.772	0.5	PASS
		2480	1.352	2479.404	2480.756	0.5	PASS

Test Graphs







Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.019	2401.556	2402.575	---	PASS
		2440	1.023	2439.556	2440.579	---	PASS
		2480	1.015	2479.560	2480.575	---	PASS
BLE_2M	Ant1	2402	2.054	2401.041	2403.095	---	PASS
		2440	2.05	2439.045	2441.095	---	PASS
		2480	2.046	2479.049	2481.095	---	PASS

Test Graphs





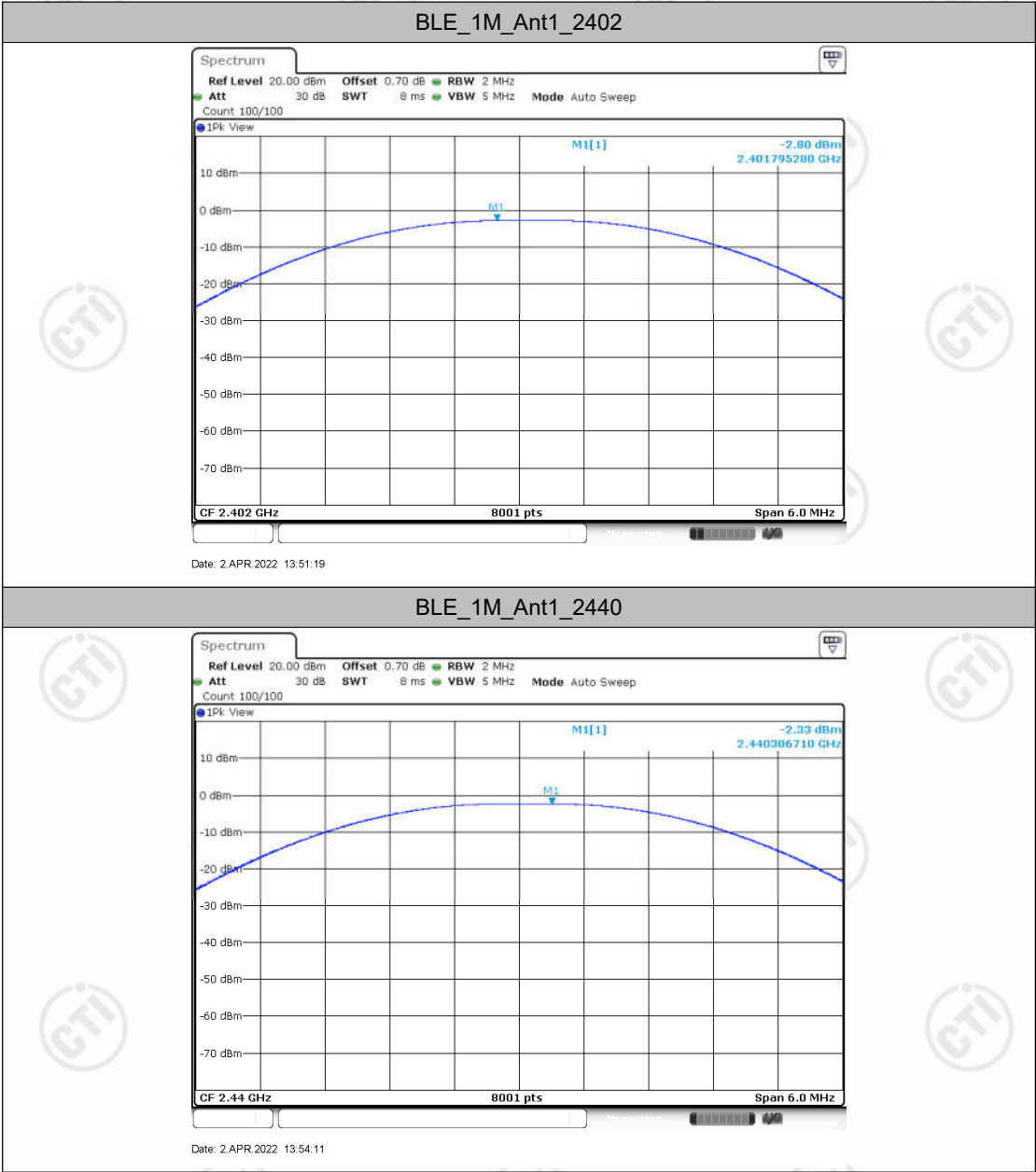


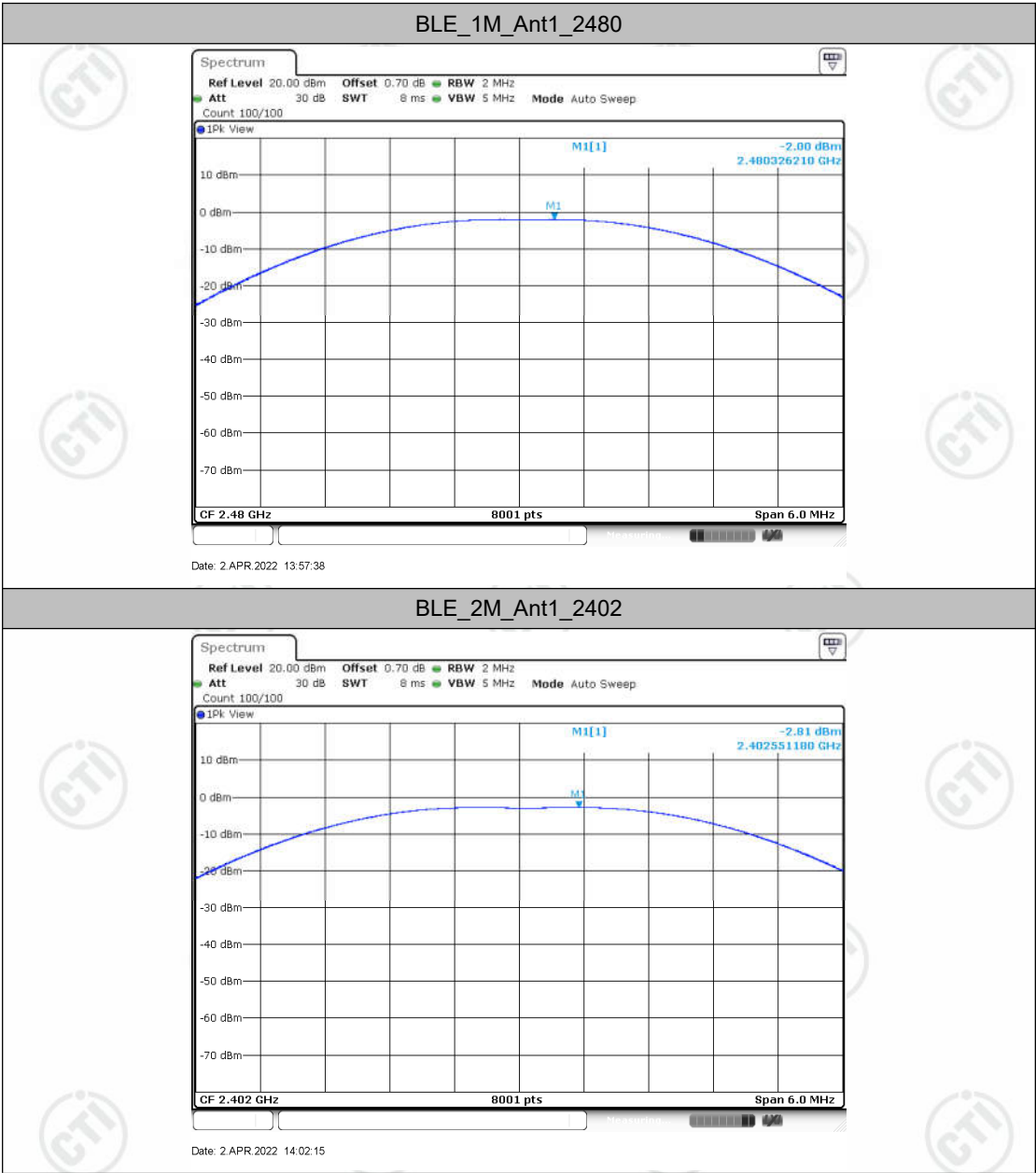
Appendix C: Maximum conducted output power

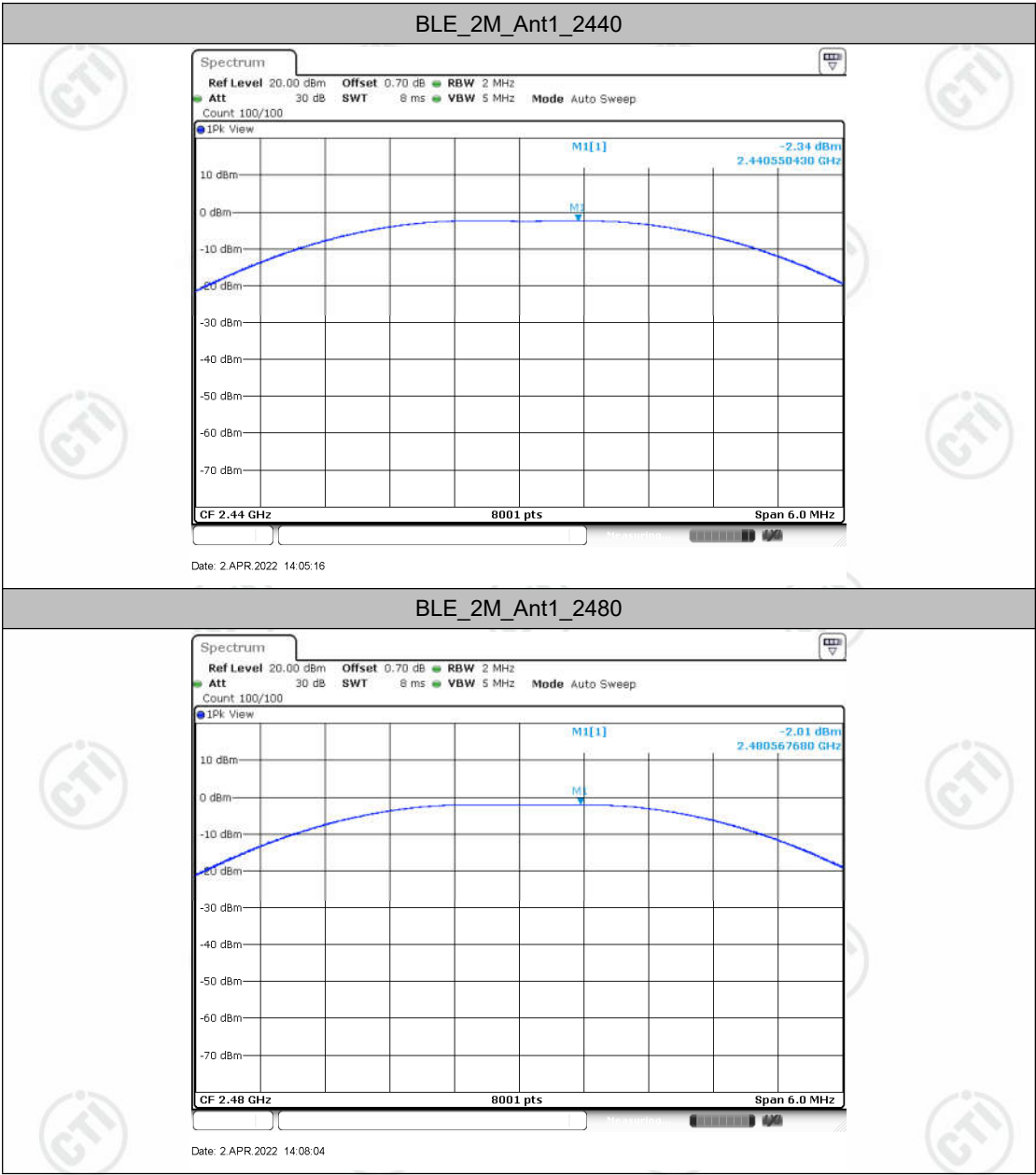
Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.8	<=30	PASS
		2440	-2.33	<=30	PASS
		2480	-2	<=30	PASS
BLE_2M	Ant1	2402	-2.81	<=30	PASS
		2440	-2.34	<=30	PASS
		2480	-2.01	<=30	PASS

Test Graphs





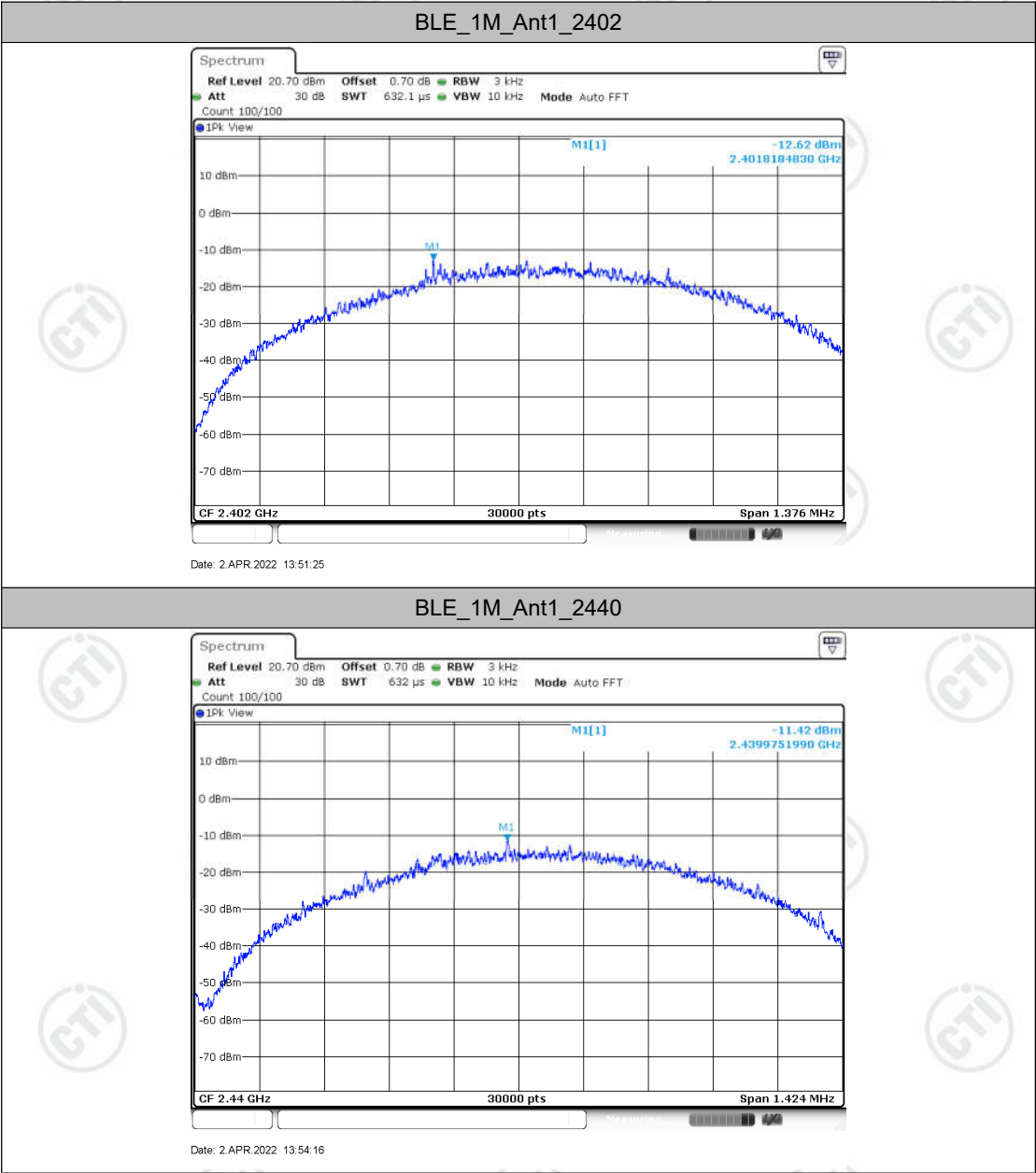


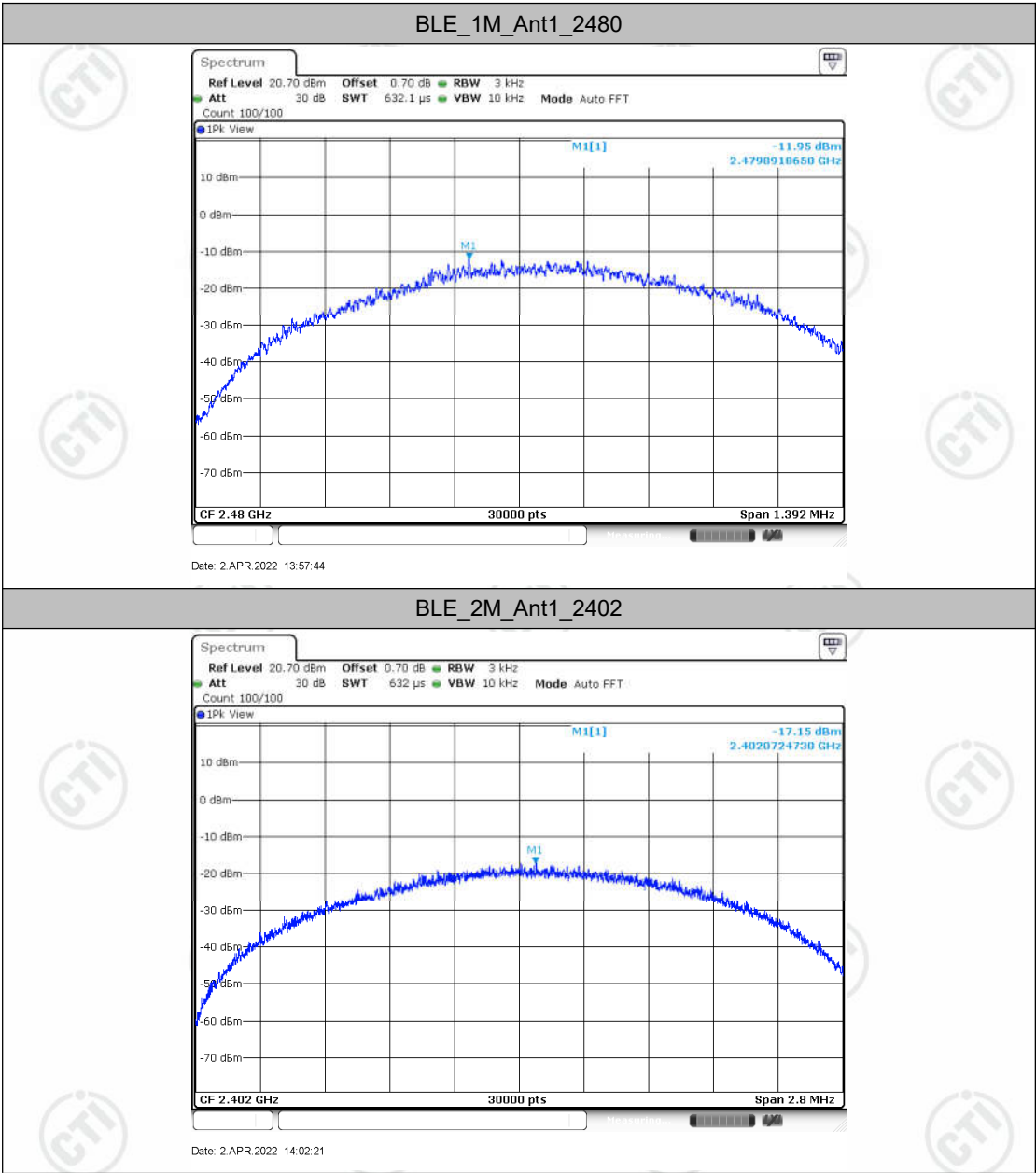
Appendix D: Maximum power spectral density

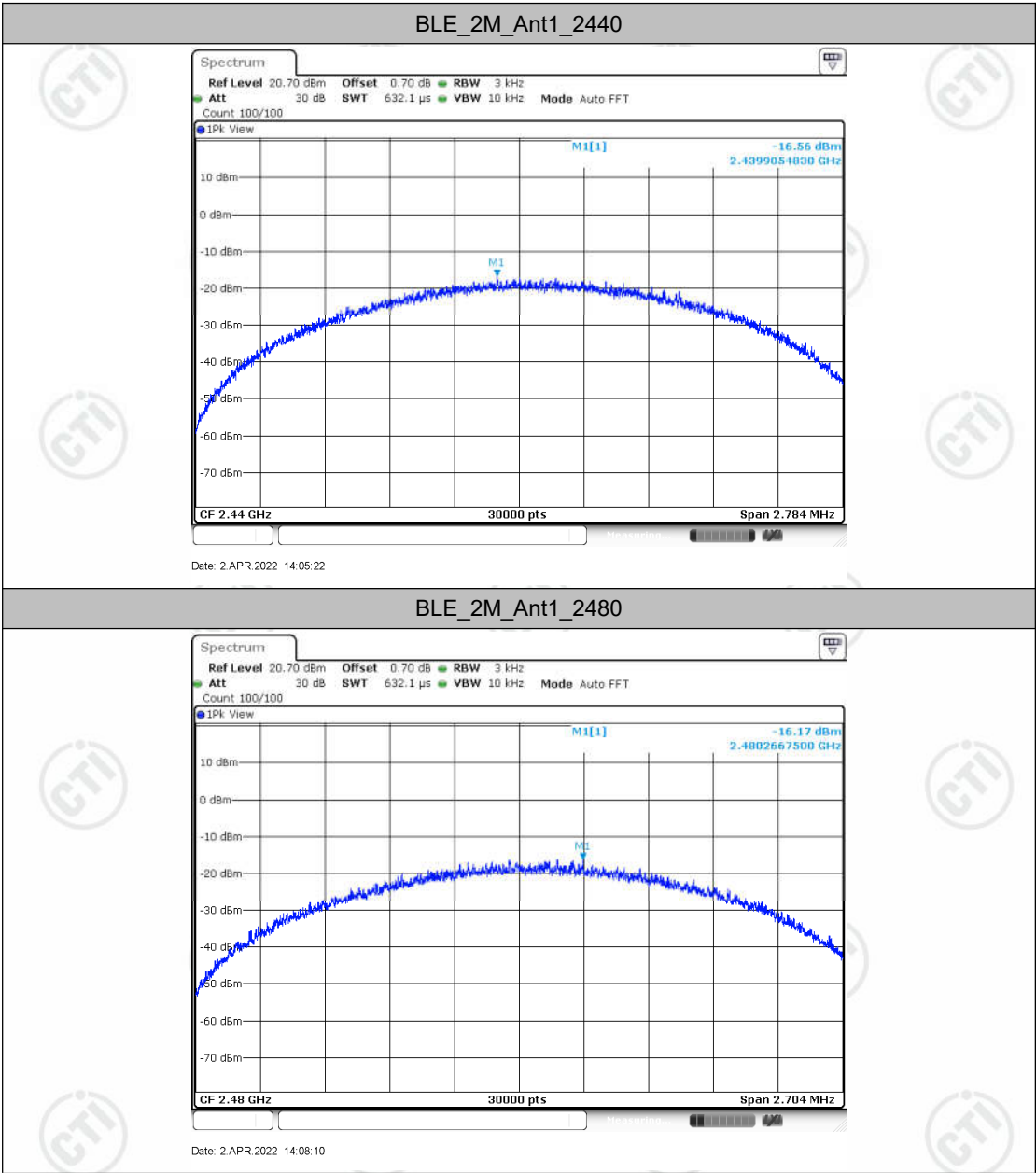
Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.62	<=8	PASS
		2440	-11.42	<=8	PASS
		2480	-11.95	<=8	PASS
BLE_2M	Ant1	2402	-17.15	<=8	PASS
		2440	-16.56	<=8	PASS
		2480	-16.17	<=8	PASS

Test Graphs





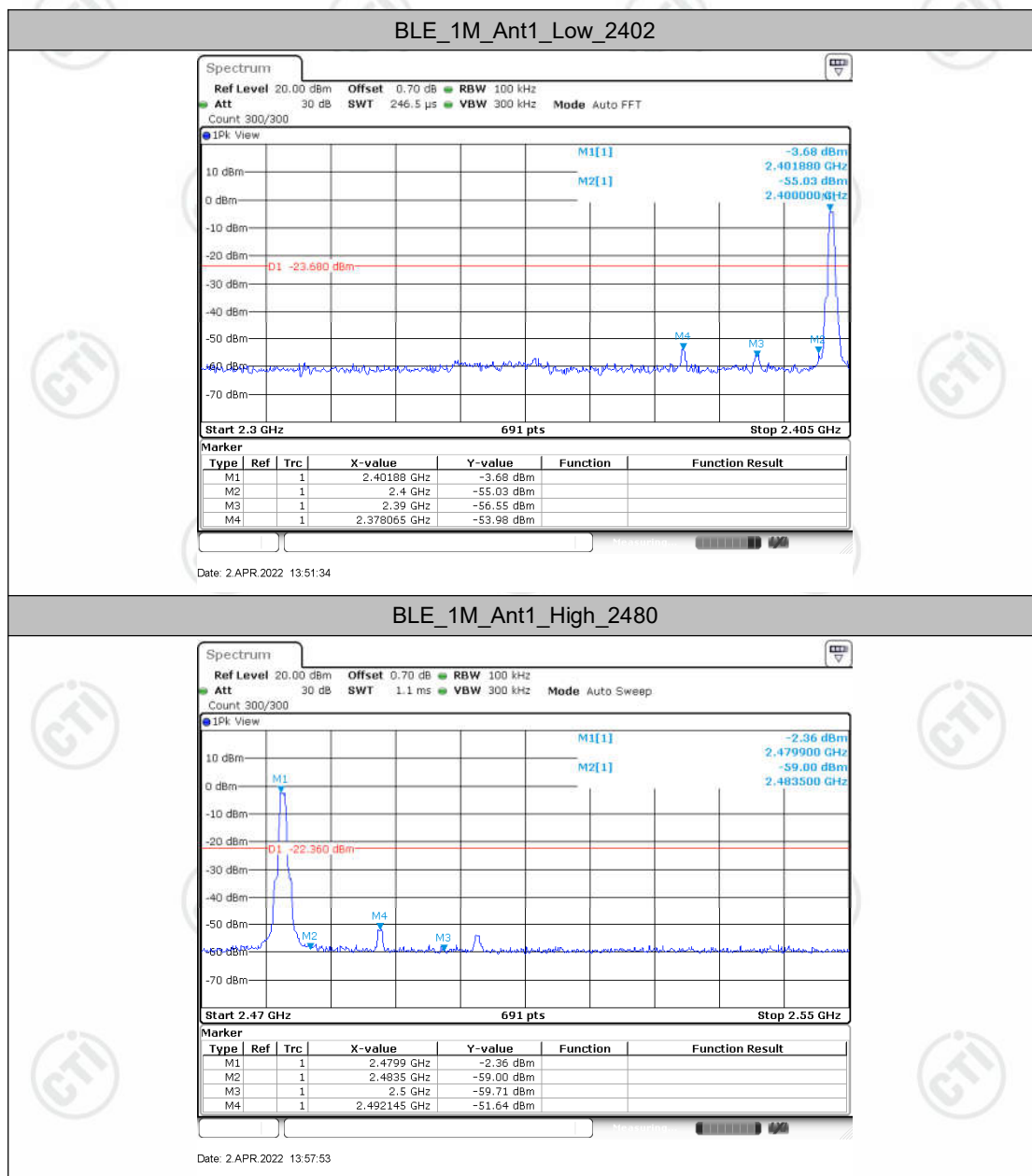


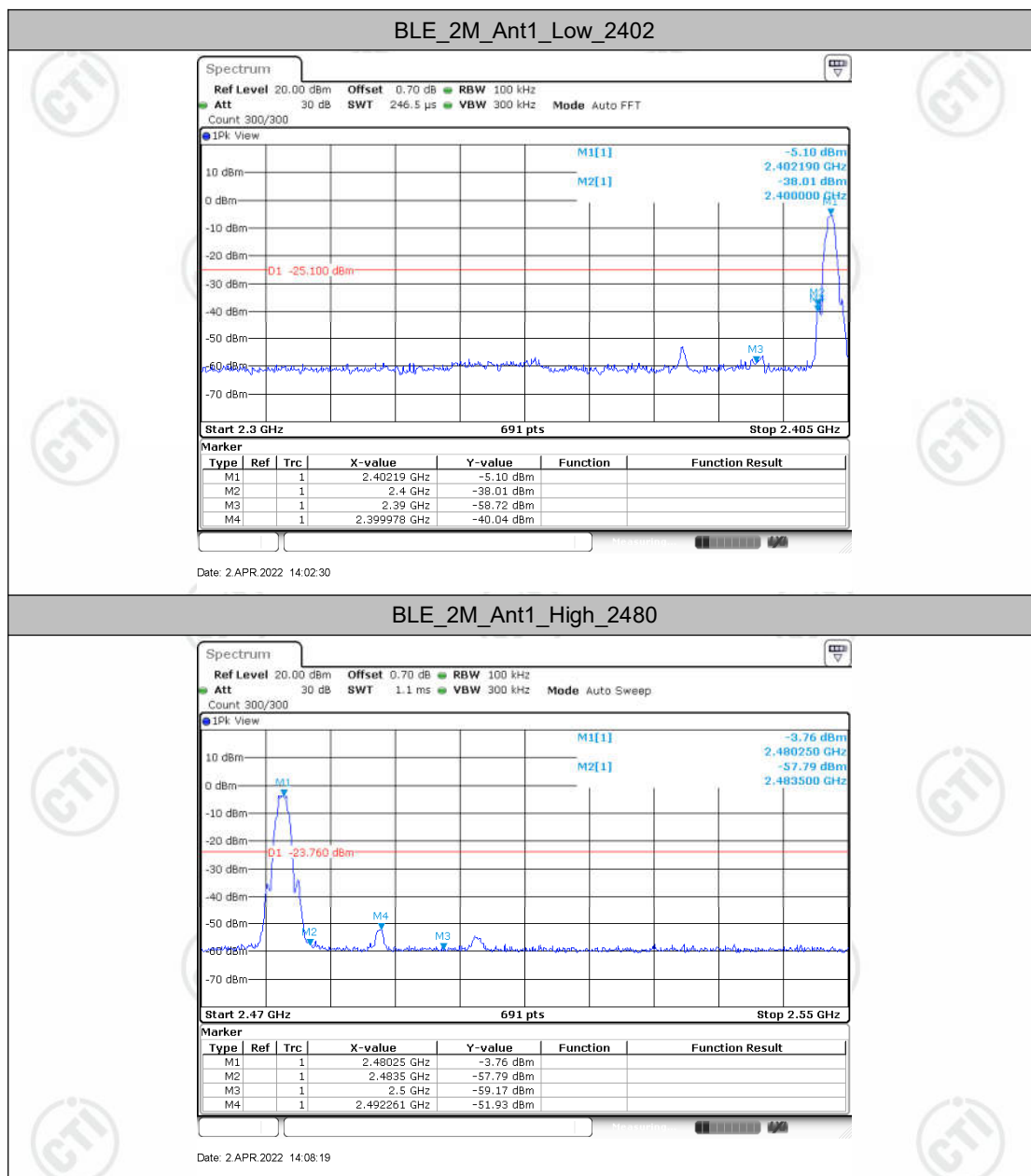
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.68	-53.98	<=-23.68	PASS
		High	2480	-2.36	-51.64	<=-22.36	PASS
BLE_2M	Ant1	Low	2402	-5.10	-40.04	<=-25.1	PASS
		High	2480	-3.76	-51.93	<=-23.76	PASS

Test Graphs



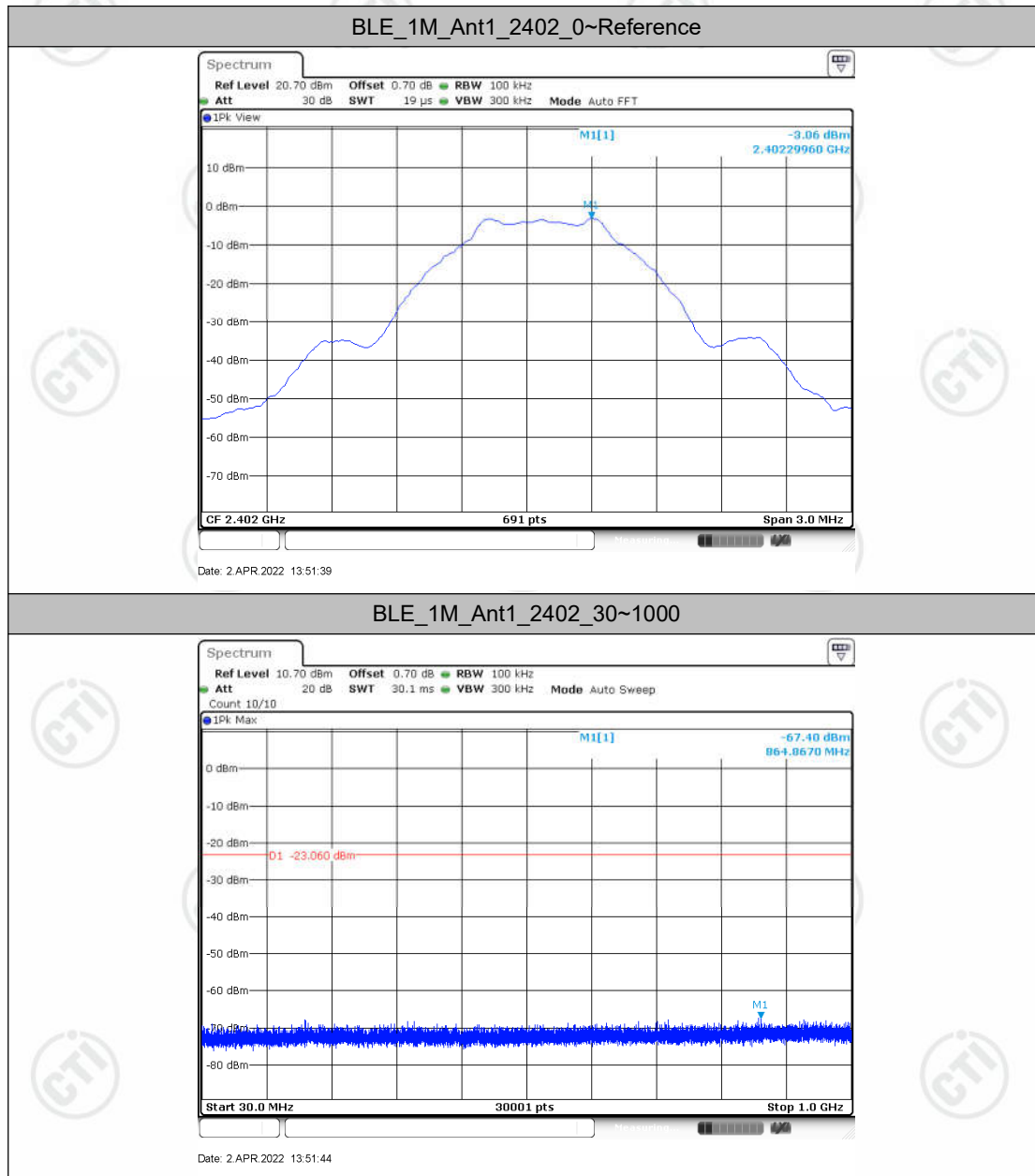


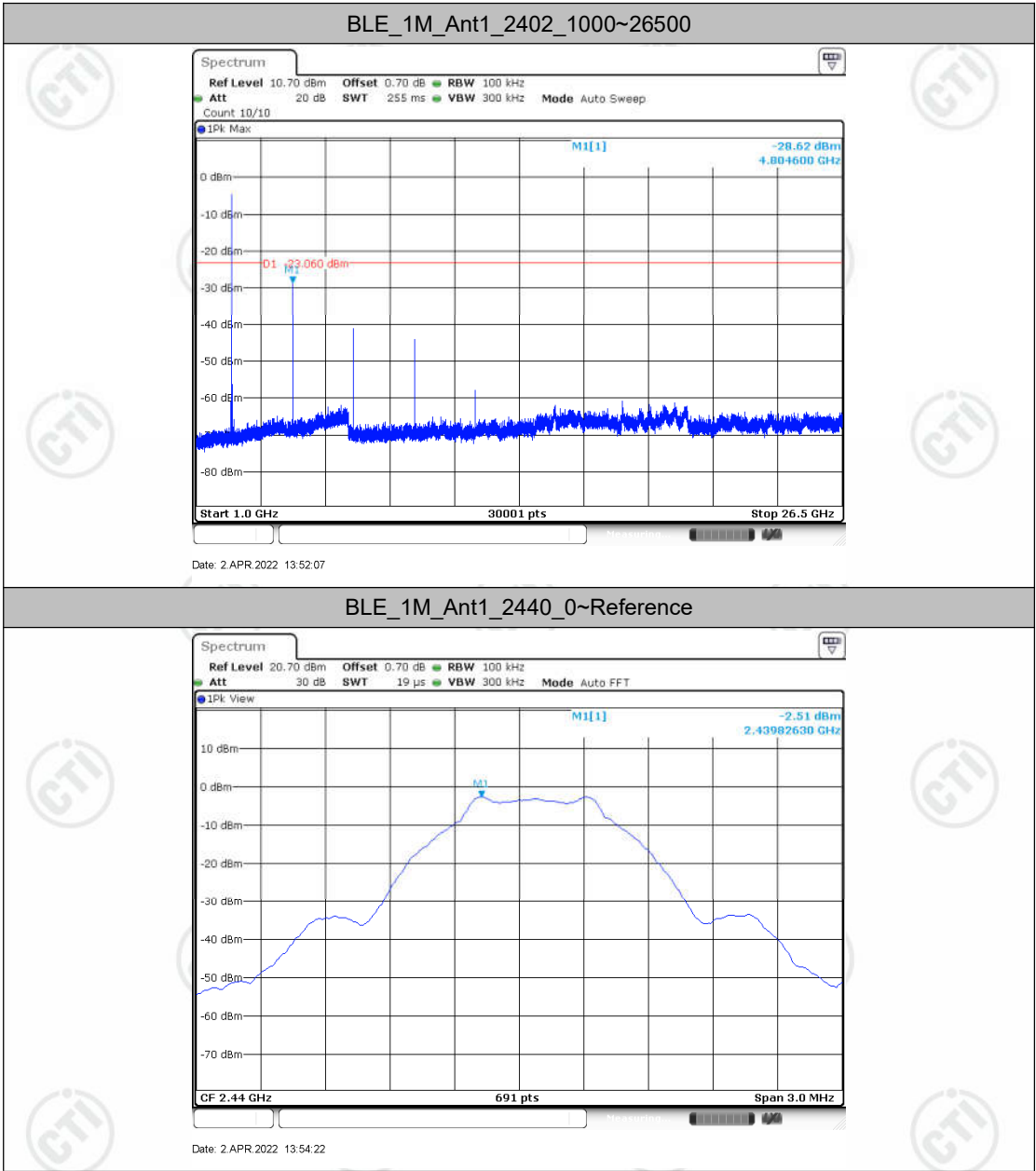
Appendix F: Conducted Spurious Emission

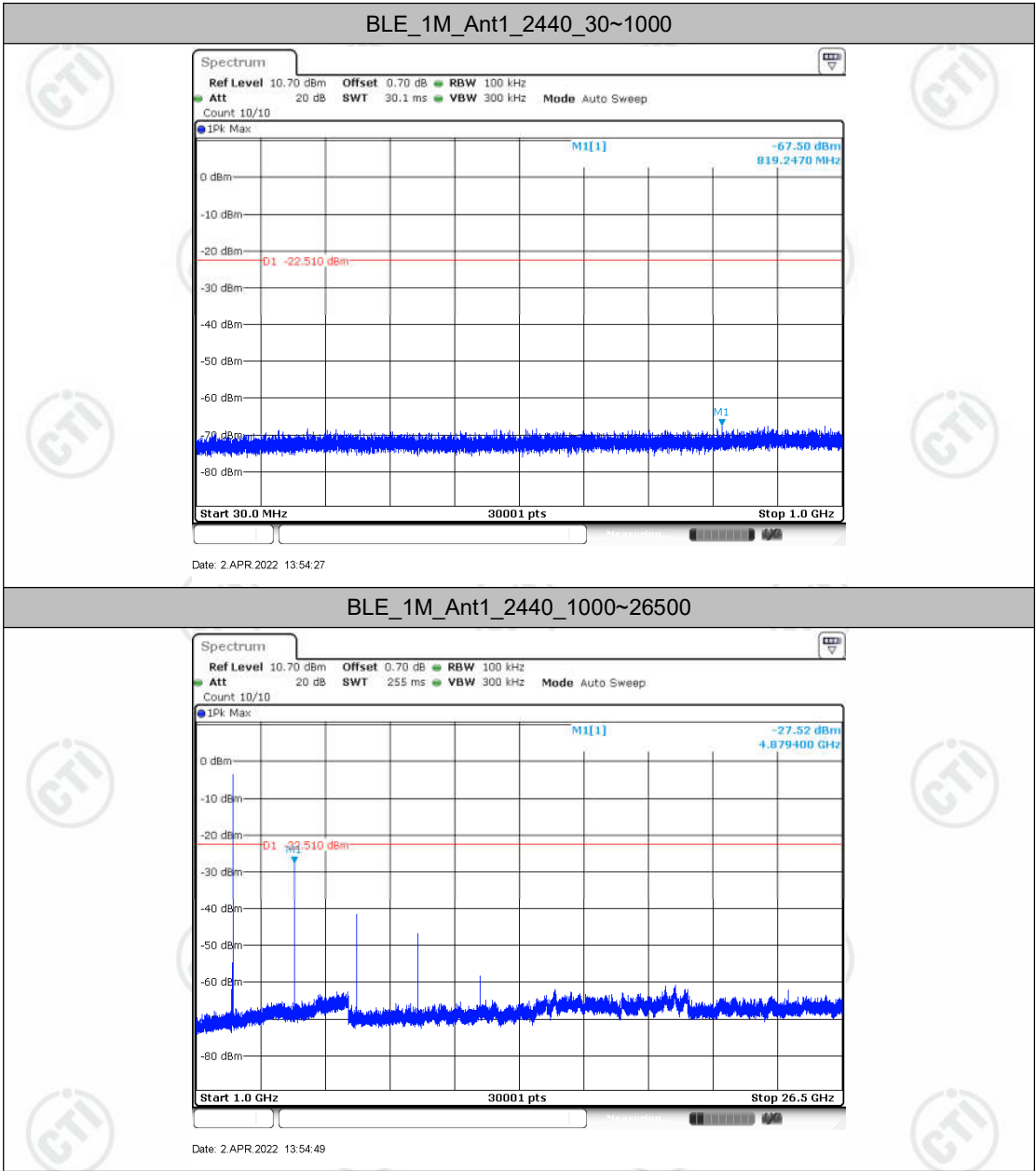
Test Result

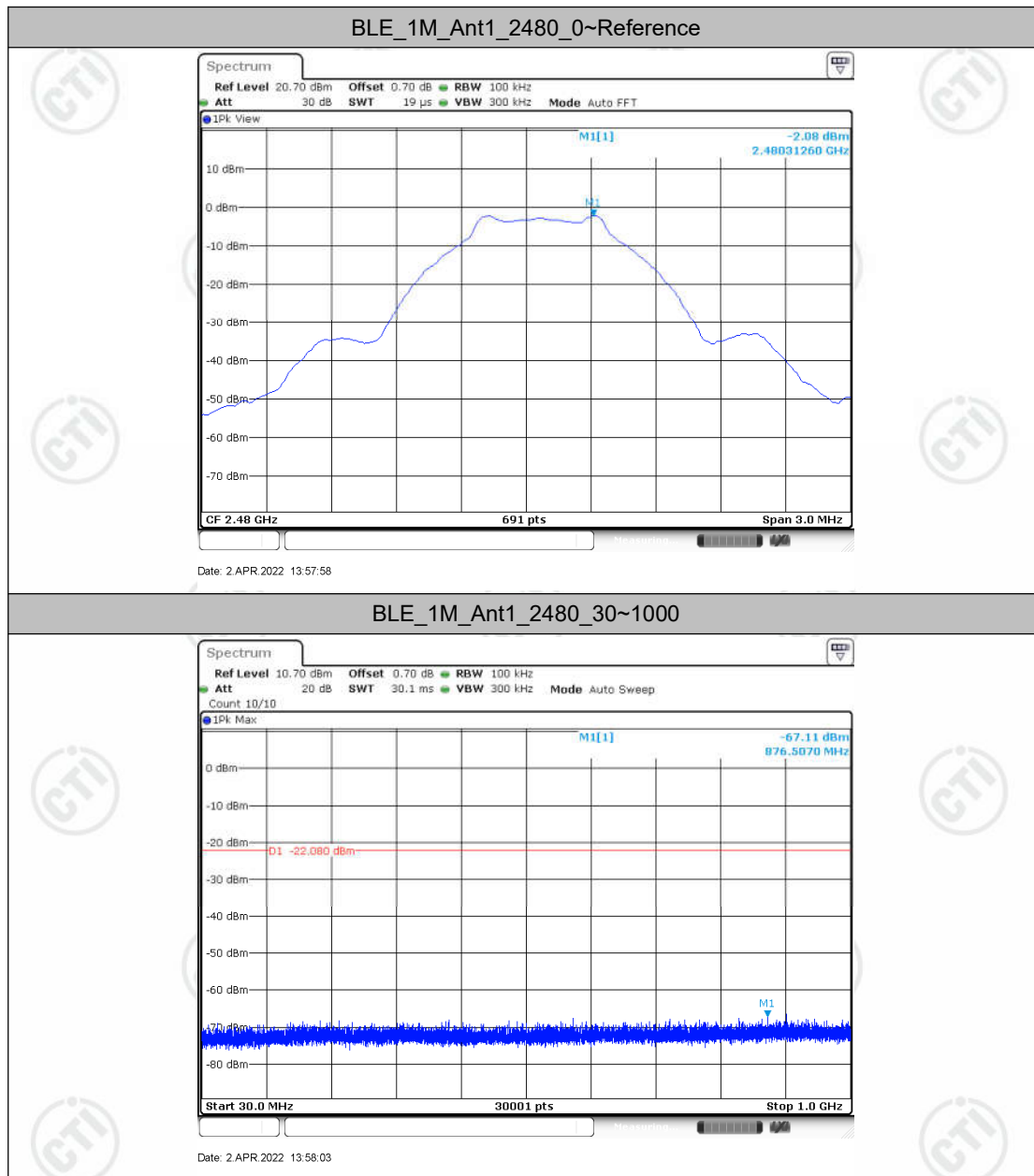
Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.06	-3.06	---	PASS
			30~1000	---	-67.4	<=-23.06	PASS
			1000~26500	---	-28.62	<=-23.06	PASS
		2440	Reference	-2.51	-2.51	---	PASS
			30~1000	---	-67.5	<=-22.51	PASS
			1000~26500	---	-27.52	<=-22.51	PASS
		2480	Reference	-2.08	-2.08	---	PASS
			30~1000	---	-67.11	<=-22.08	PASS
			1000~26500	---	-27.9	<=-22.08	PASS
BLE_2M	Ant1	2402	Reference	-3.85	-3.85	---	PASS
			30~1000	---	-67.44	<=-23.85	PASS
			1000~26500	---	-28.7	<=-23.85	PASS
		2440	Reference	-3.58	-3.58	---	PASS
			30~1000	---	-67.59	<=-23.58	PASS
			1000~26500	---	-29.14	<=-23.58	PASS
		2480	Reference	-3.45	-3.45	---	PASS
			30~1000	---	-67.25	<=-23.45	PASS
			1000~26500	---	-30.65	<=-23.45	PASS

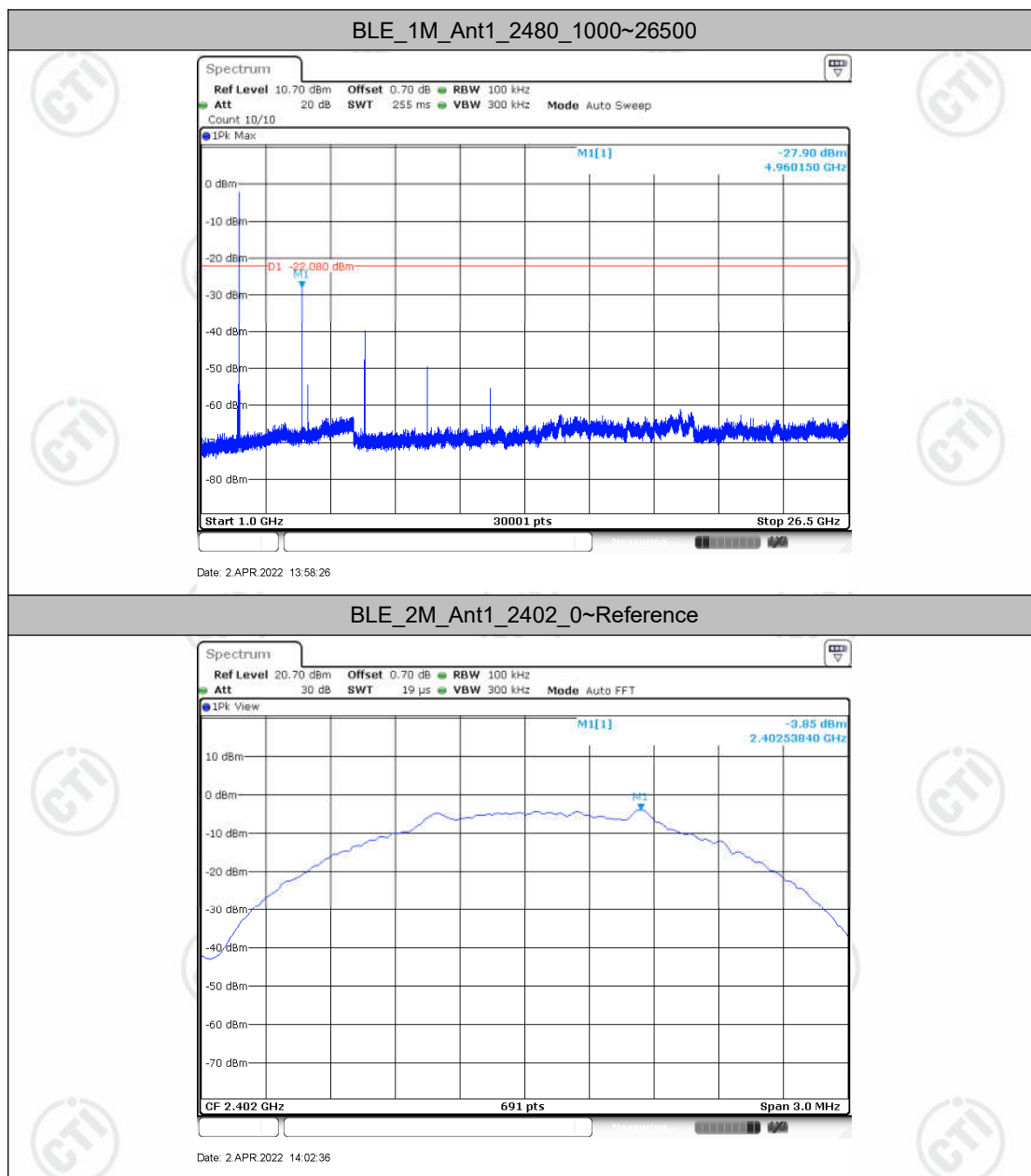
Test Graphs

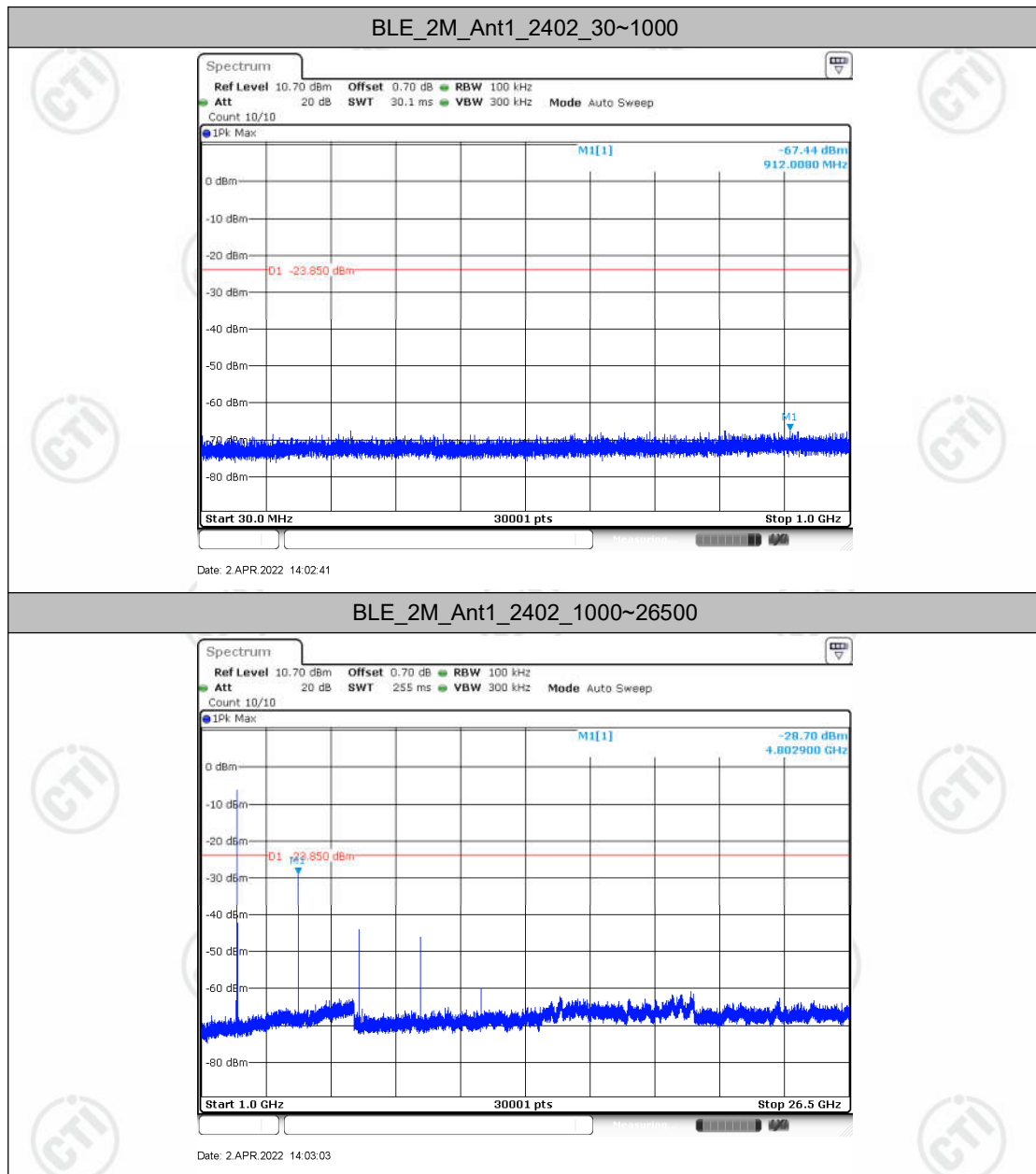


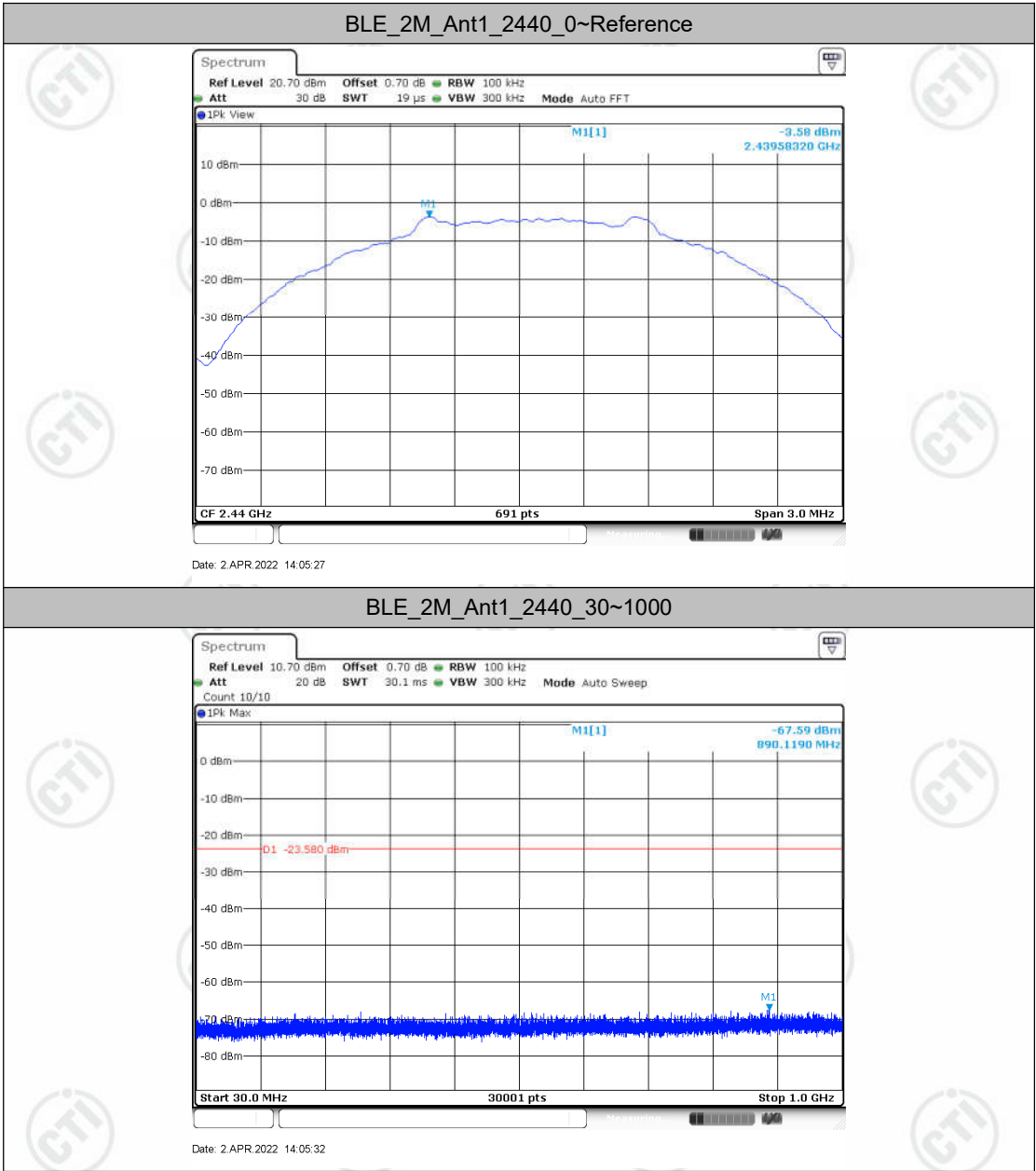


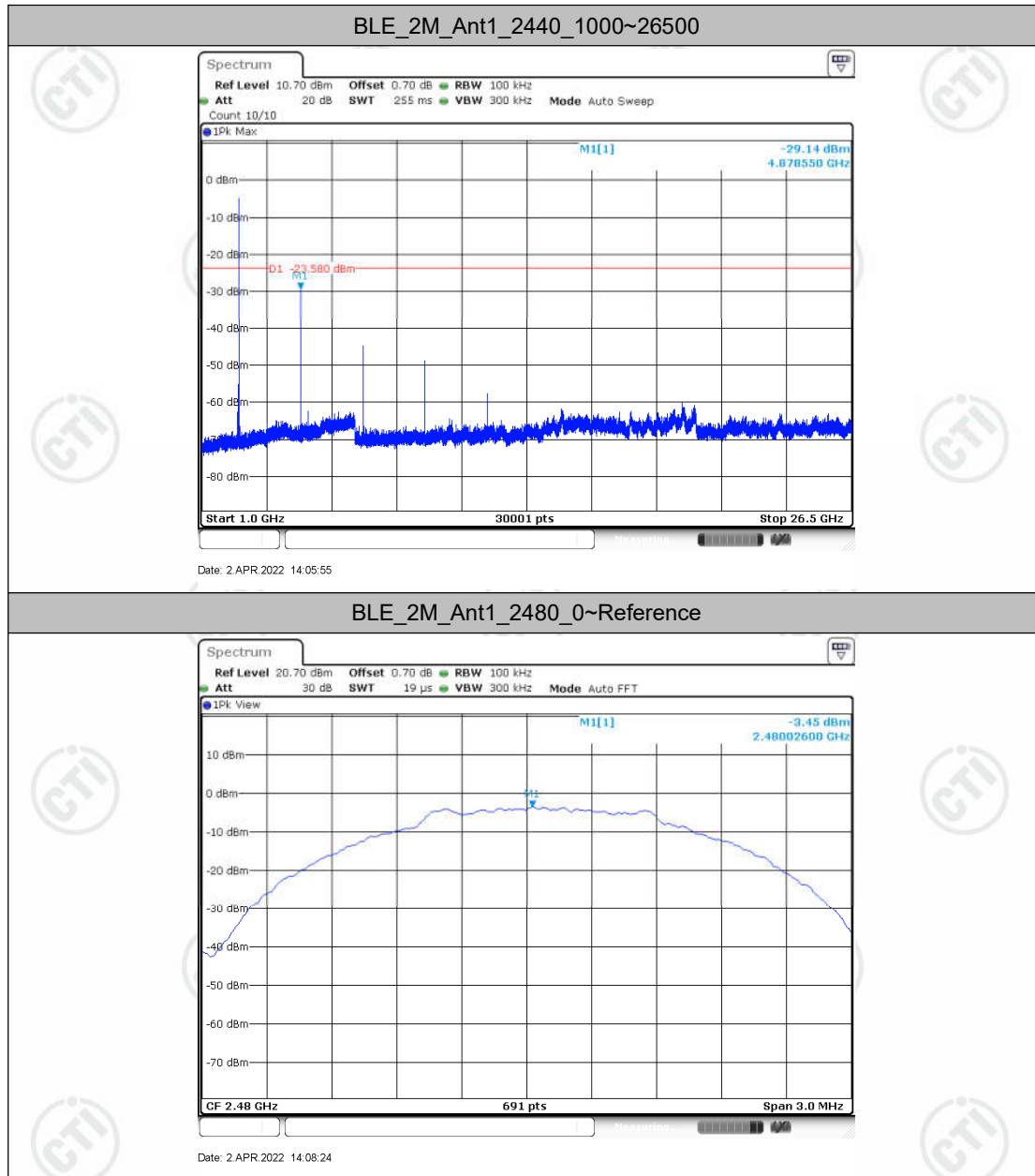


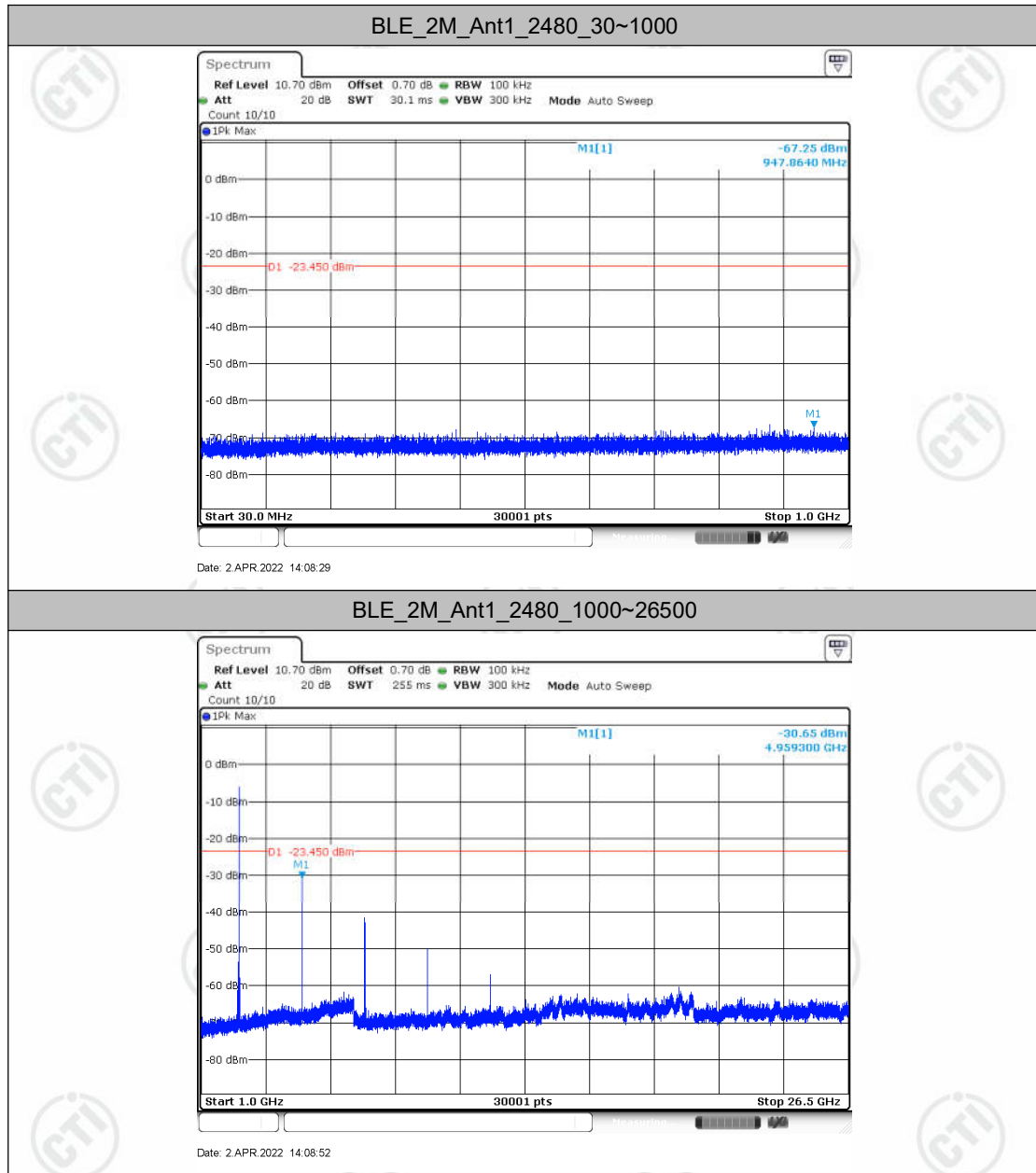










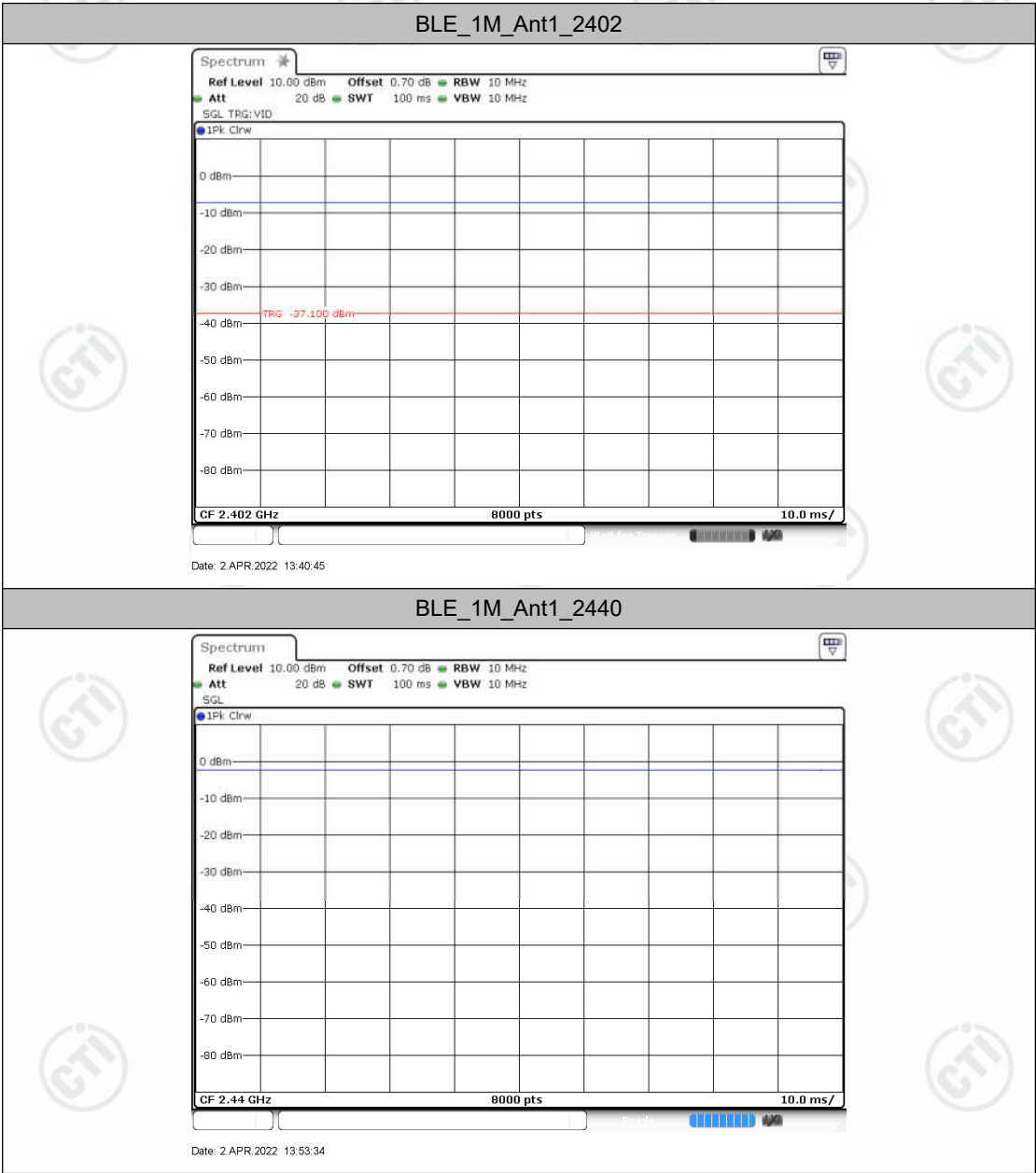


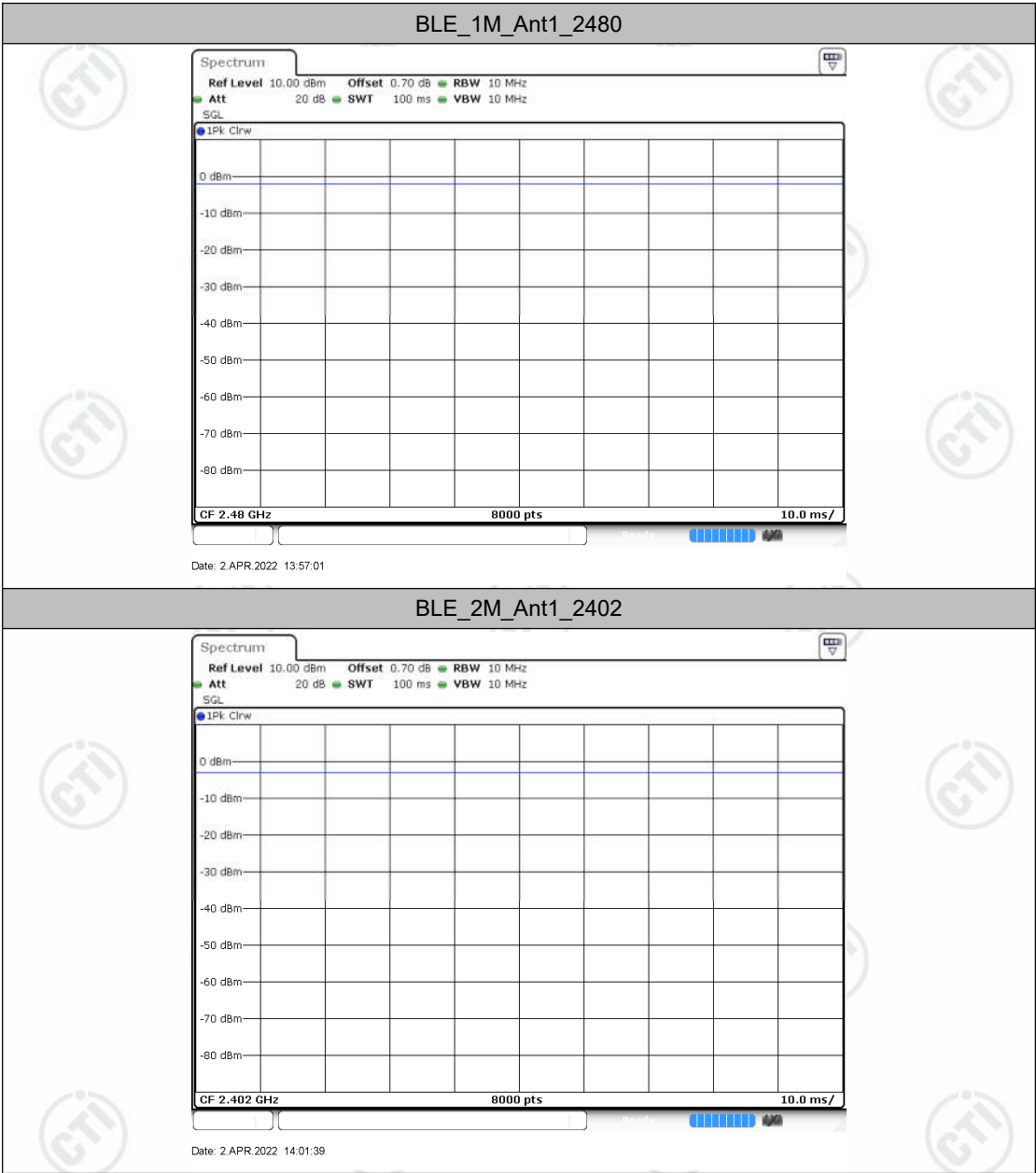
Appendix G: Duty Cycle

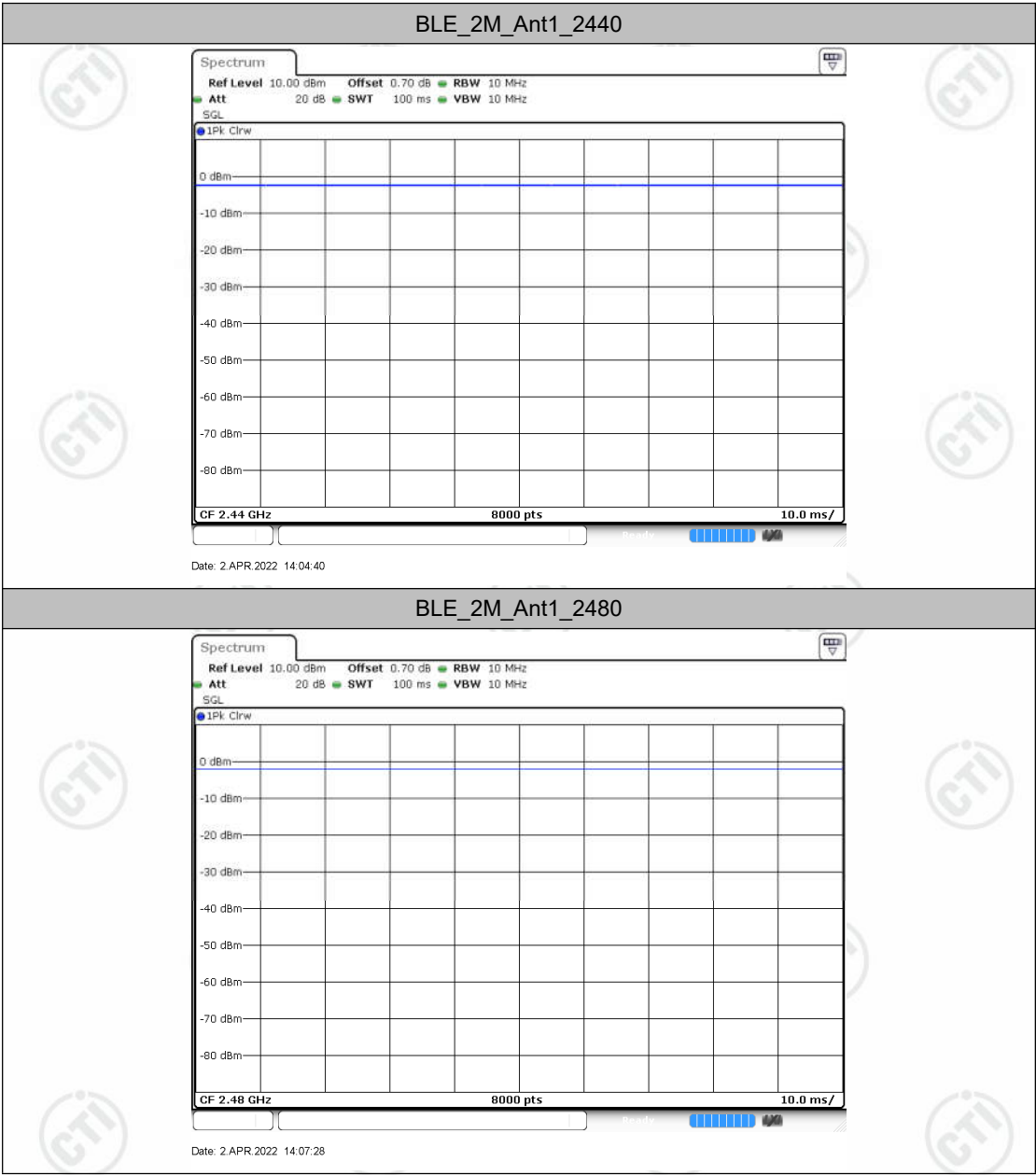
Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	100.00	100.00	100.00	---	PASS
		2440	100.00	100.00	100.00	---	PASS
		2480	100.00	100.00	100.00	---	PASS
BLE_2M	Ant1	2402	100.00	100.00	100.00	---	PASS
		2440	100.00	100.00	100.00	---	PASS
		2480	100.00	100.00	100.00	---	PASS

Test Graphs







*** End of Report ***