

Variability Chart for N+ Sheet Resistance (All values included)

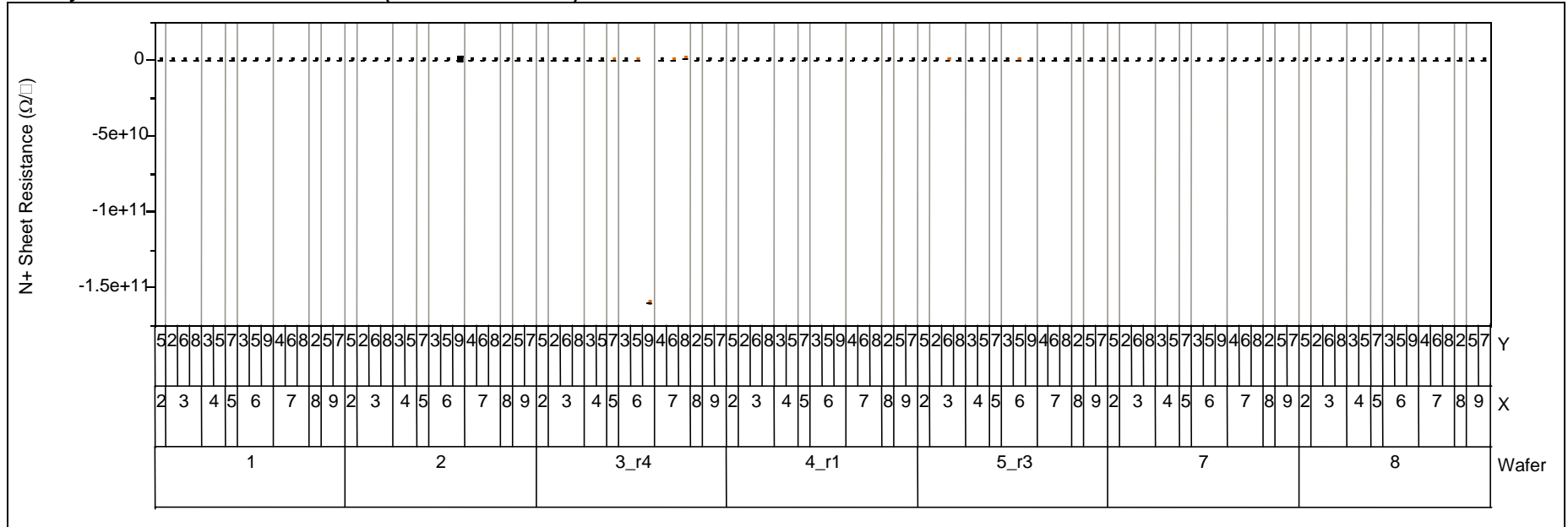


Figure 1. N+ Sheet Resistance (LCL=3 Ohms/sq, UCL=150 Ohms/sq, Target 30 Ohms/sq).

Variability Chart for N+ Sheet Resistance (with cutoffs implemented)

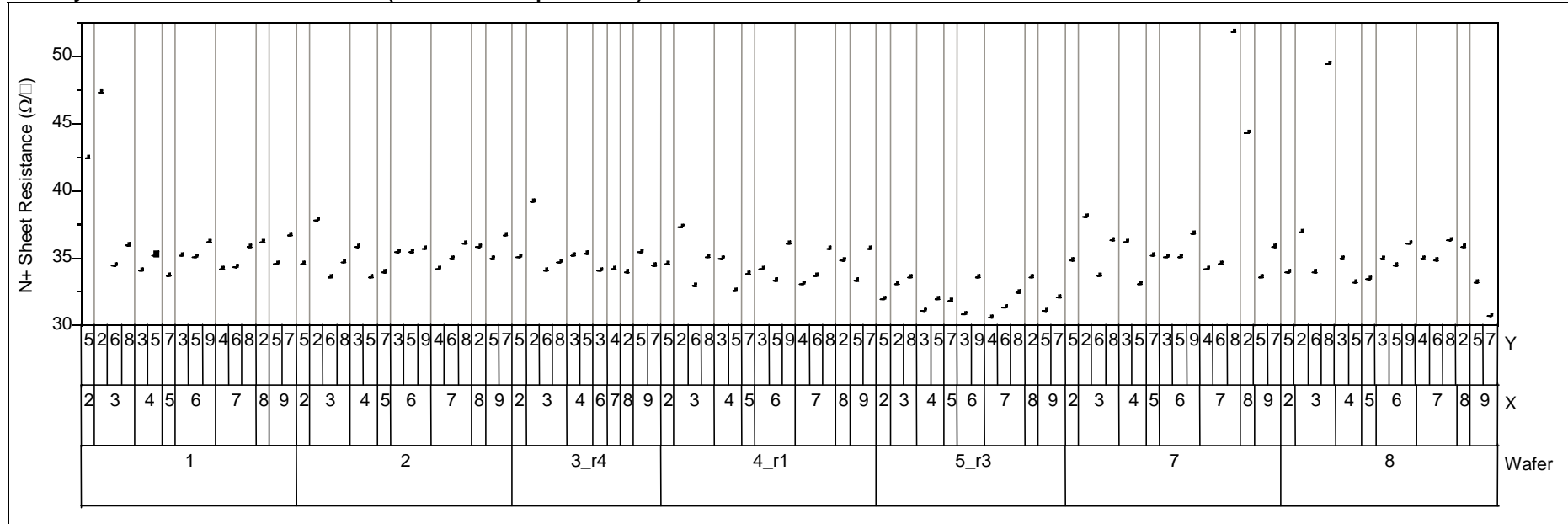


Figure 2. N+ Sheet Resistance (LCL=3 Ohms/sq, UCL=150 Ohms/sq, Target 30 Ohms/sq).

Variability Chart for P+ Sheet Resistance (all values included)

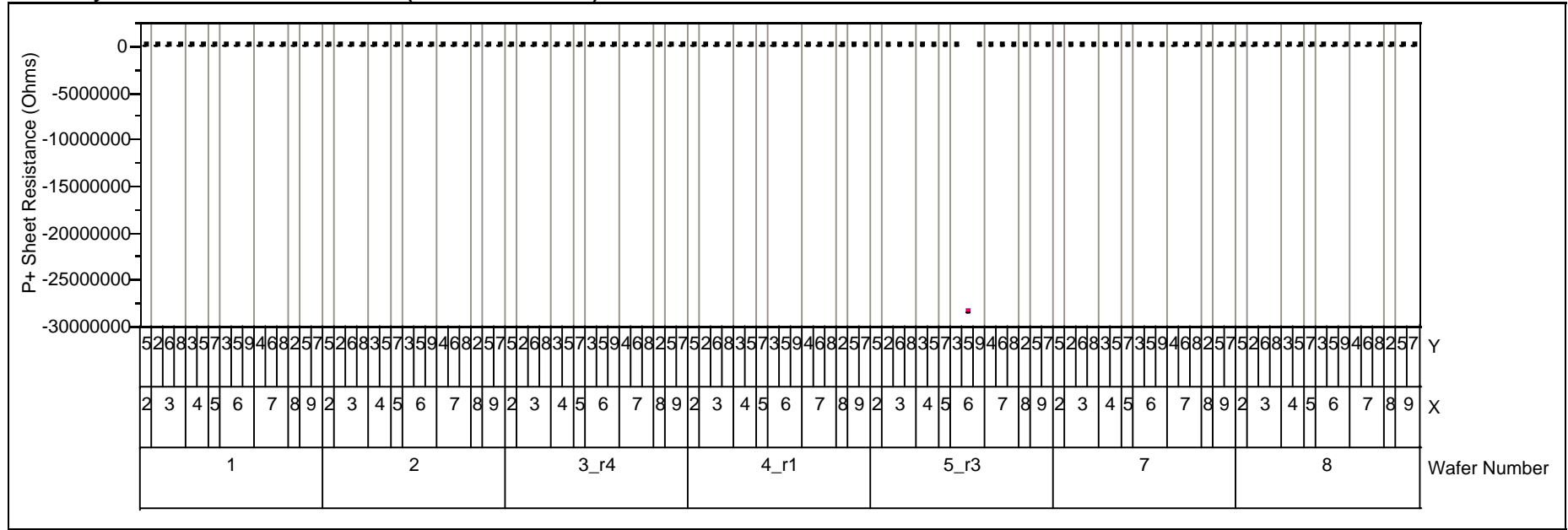


Figure 3. P+ Sheet Resistance (LCL=3 Ohms/sq, UCL=150 Ohms/sq, Target 39 Ohms/sq).

Variability Chart for P+ Sheet Resistance (with cutoffs implemented)

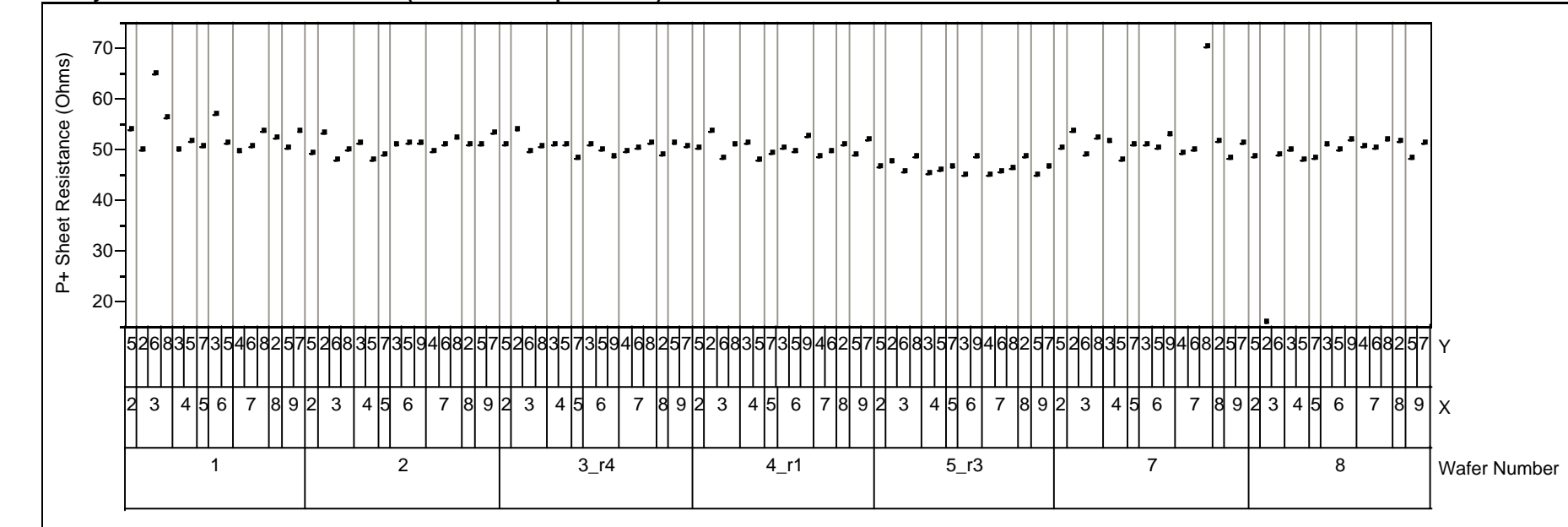


Figure 4. P+ Sheet Resistance (LCL=3 Ohms, UCL=150 Ohms, Target 39 Ohms).

Variability Chart for Poly Sheet Resistance (all values included)

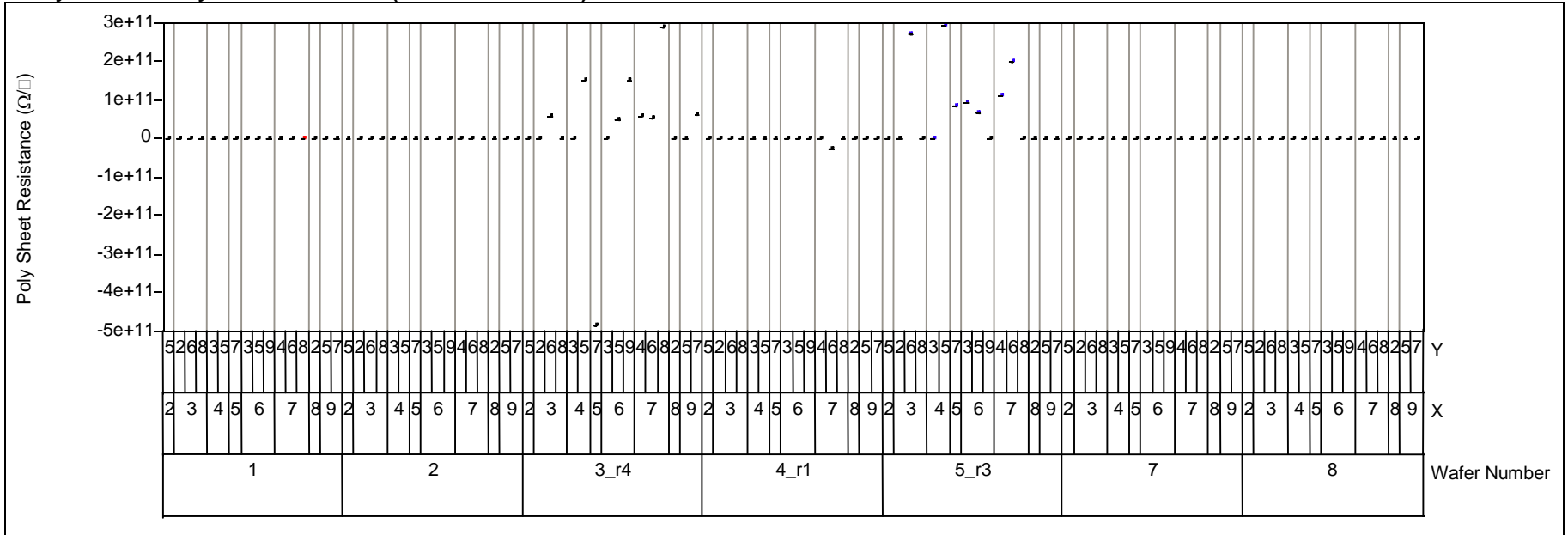


Figure 5. Poly Sheet Resistance (LCL=3 Ohms/sq, UCL=150 Ohms/sq, Target 49 Ohms/sq).

Variability Chart for Poly Sheet Resistance (with cutoffs implemented)

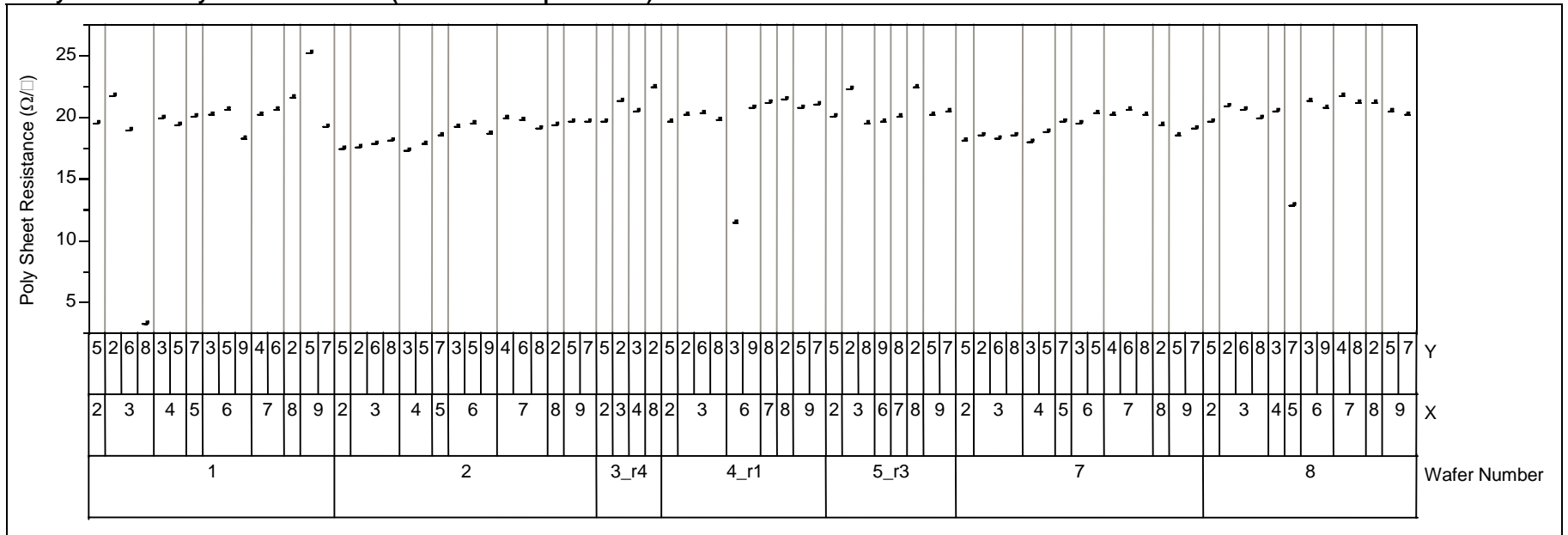


Figure 6. Poly Sheet Resistance (LCL=3 Ohms/sq, UCL=150 Ohms/sq, Target 49 Ohms/sq).

Variability Chart for Poly CD (all values included)

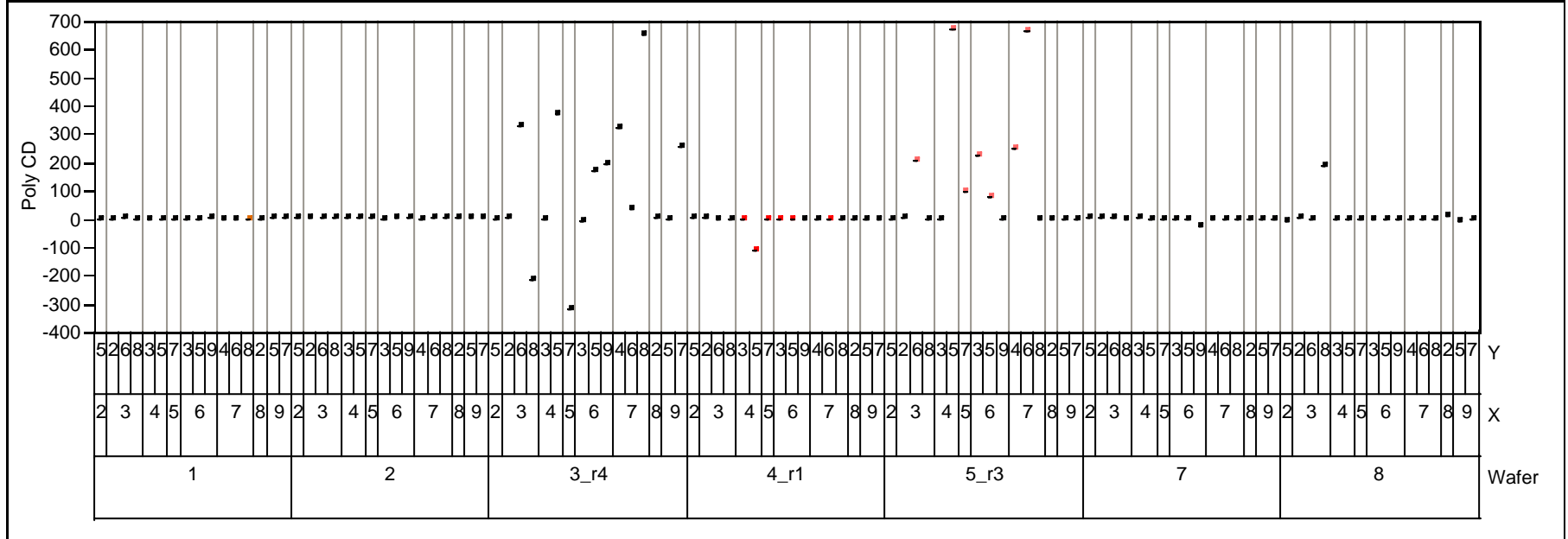


Figure 7. Poly CD (LCL=0.1 μm, UCL=6 μm, Target 2 μm).

Variability Chart for Poly CD (with cutoffs implemented)

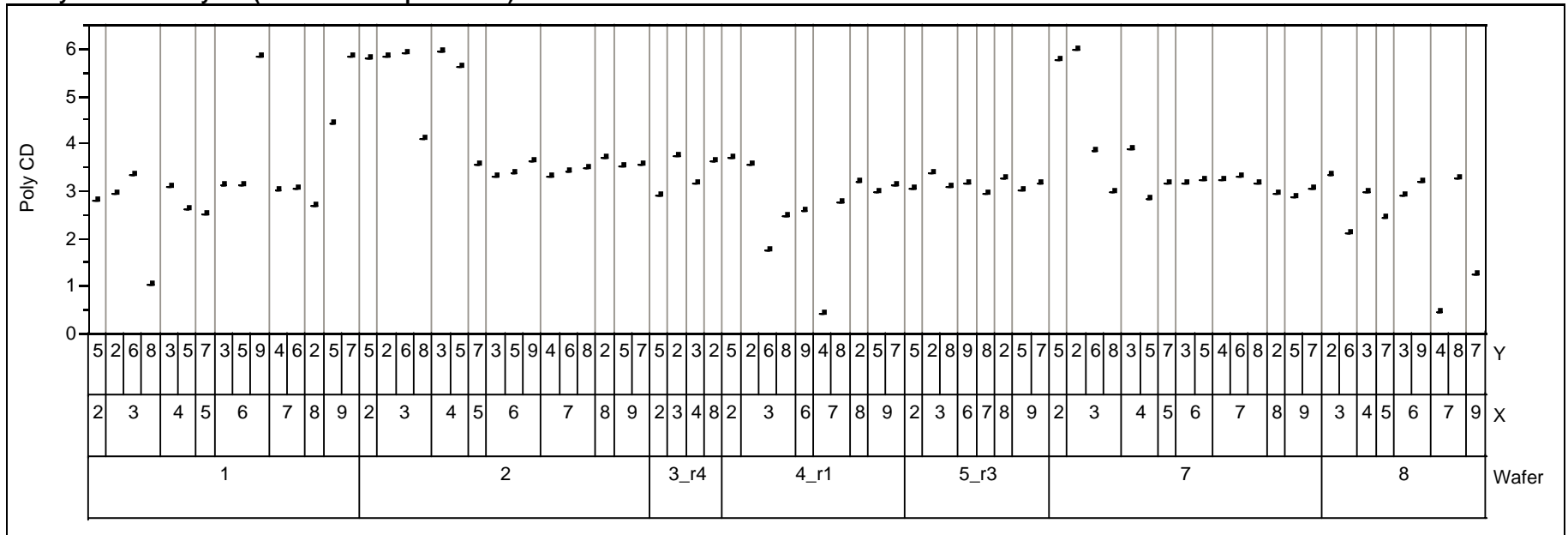


Figure 8. Poly CD (LCL=0.1 μm, UCL=6 μm, Target 2 μm).

Variability Chart for Poly Comb Leakage (all values included)

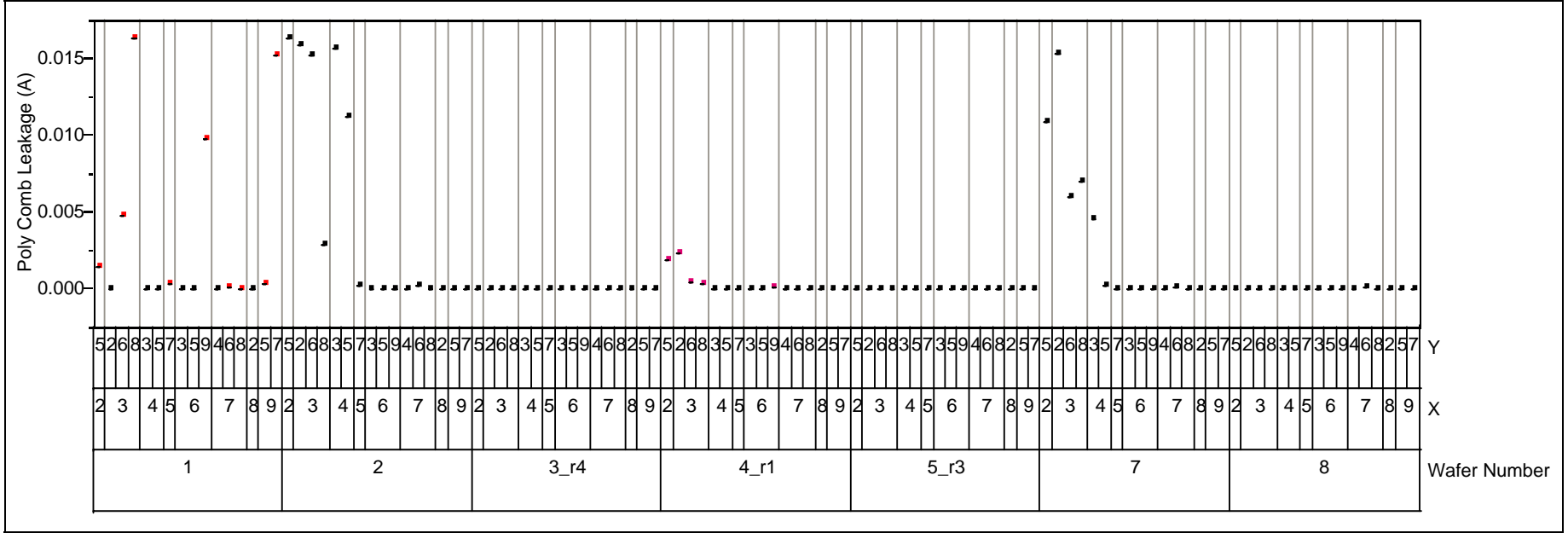


Figure 9. Poly Comb Leakage (LCL=0 A, UCL=1E-9 A, Target 1E-12 A).

Variability Chart for Poly Comb Leakage (with cutoffs implemented)

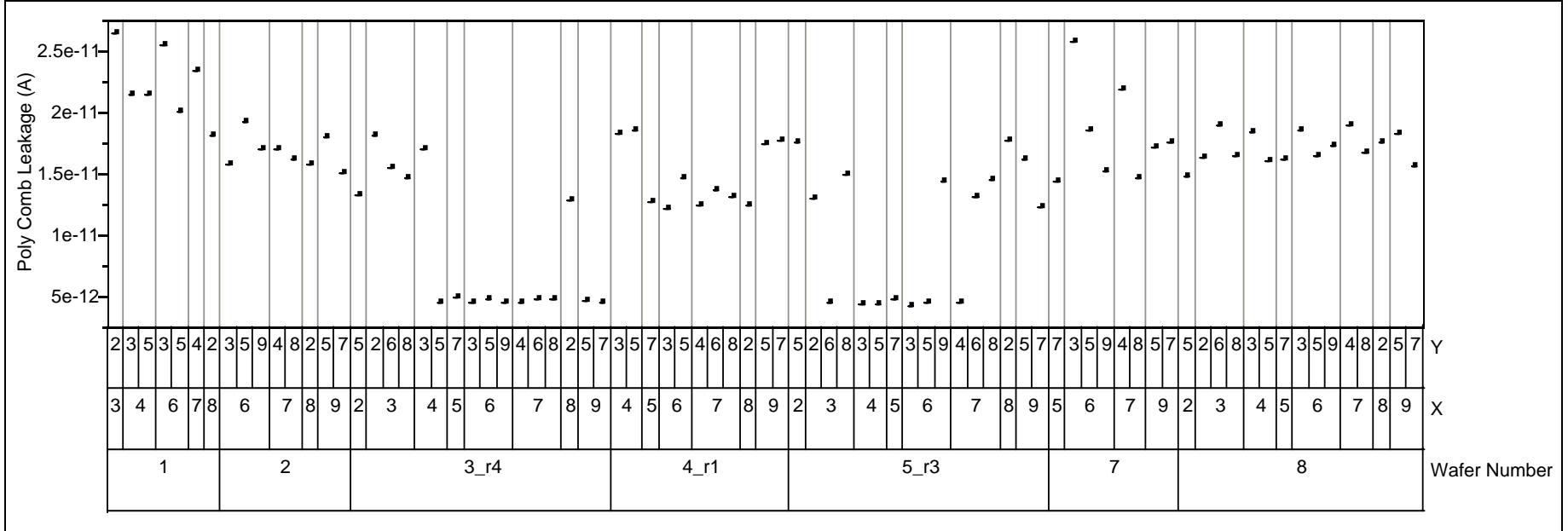


Figure 10. Poly Comb Leakage (LCL=0 A, UCL=1E-9 A, Target 1E-12A).

Variability Chart for Poly Serpentine Resistance (all values included)

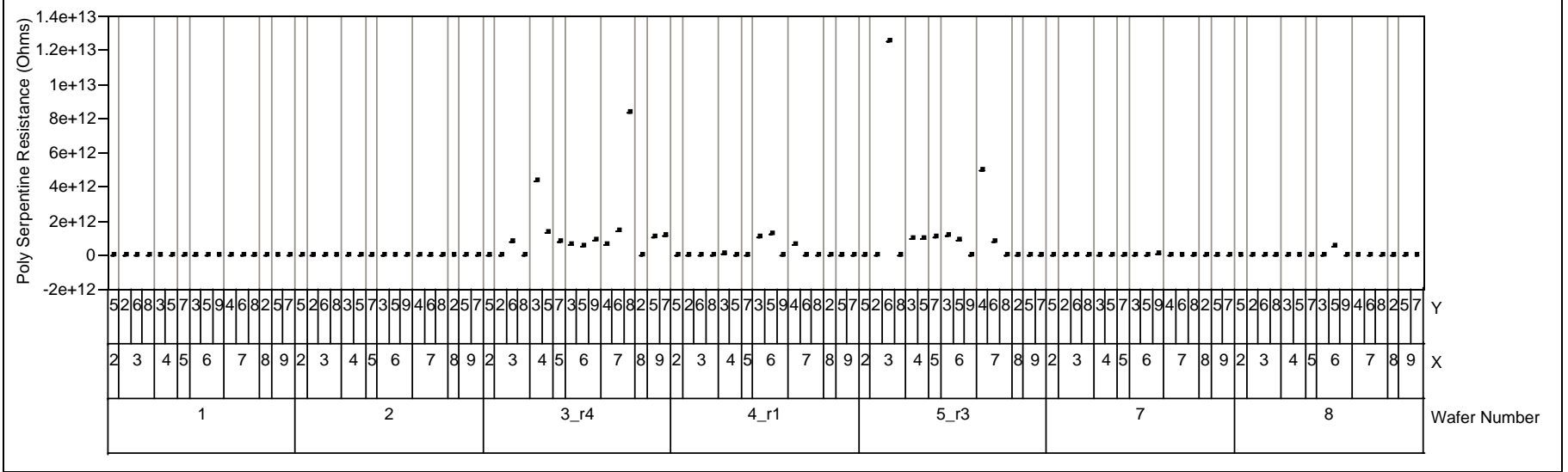


Figure 11. Poly Serpentine Resistance (LCL=16KOhms, UCL=497KOhms, Target 166KOhms).

Variability Chart for Poly Serpentine Resistance (with cutoffs implemented)

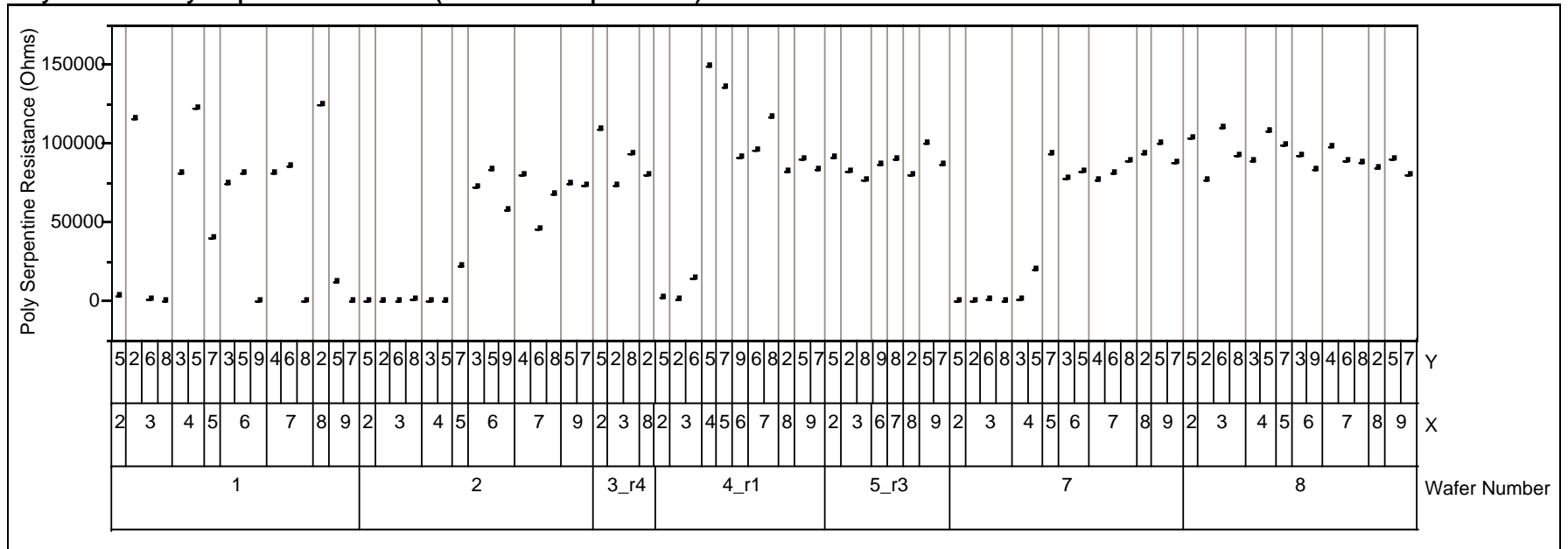


Figure 12. Poly Serpentine Resistance (LCL=16KOhms, UCL=497KOhms, Target 166KOhms).

Variability Chart for NMOS Threshold Voltage (V) (all values included)

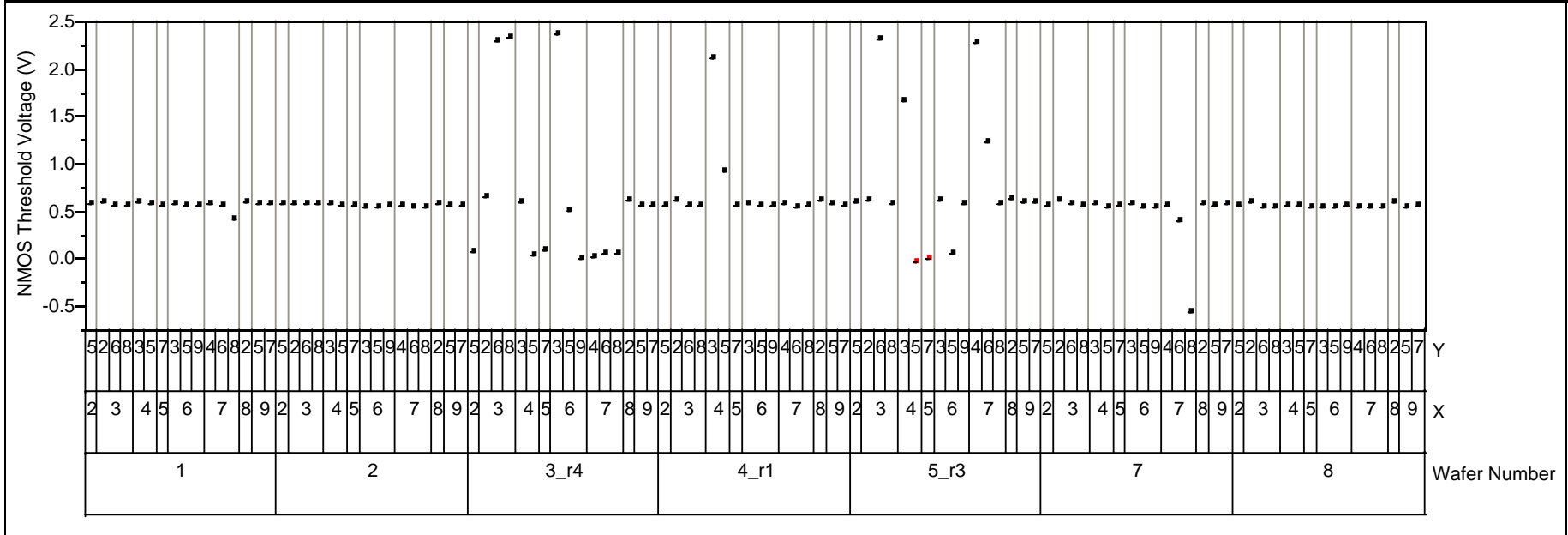


Figure 13. NMOS Threshold Voltage (LCL=0 V, UCL=3 V, Target 0.75 V).

Variability Chart for NMOS Threshold Voltage (V) (with cutoffs implemented)

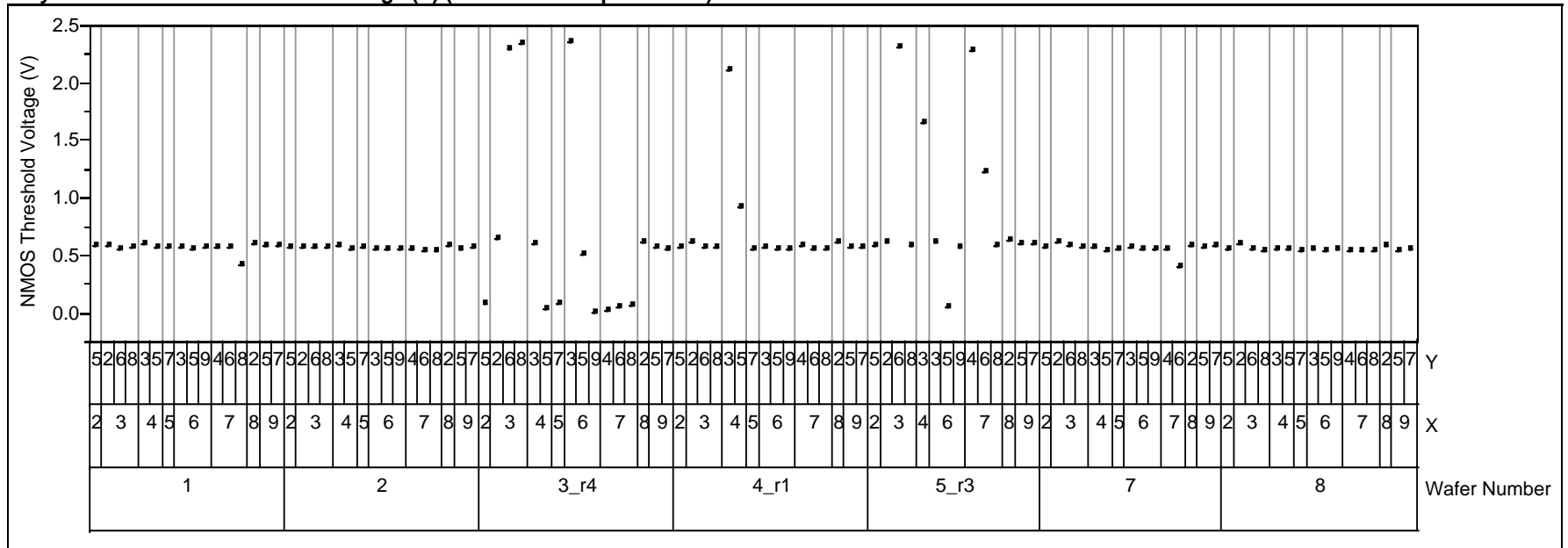


Figure 14. NMOS Threshold Voltage (LCL=0 V, UCL=3 V, Target 0.75 V).

Variability Chart for PMOS Threshold Voltage (V) (all values included)

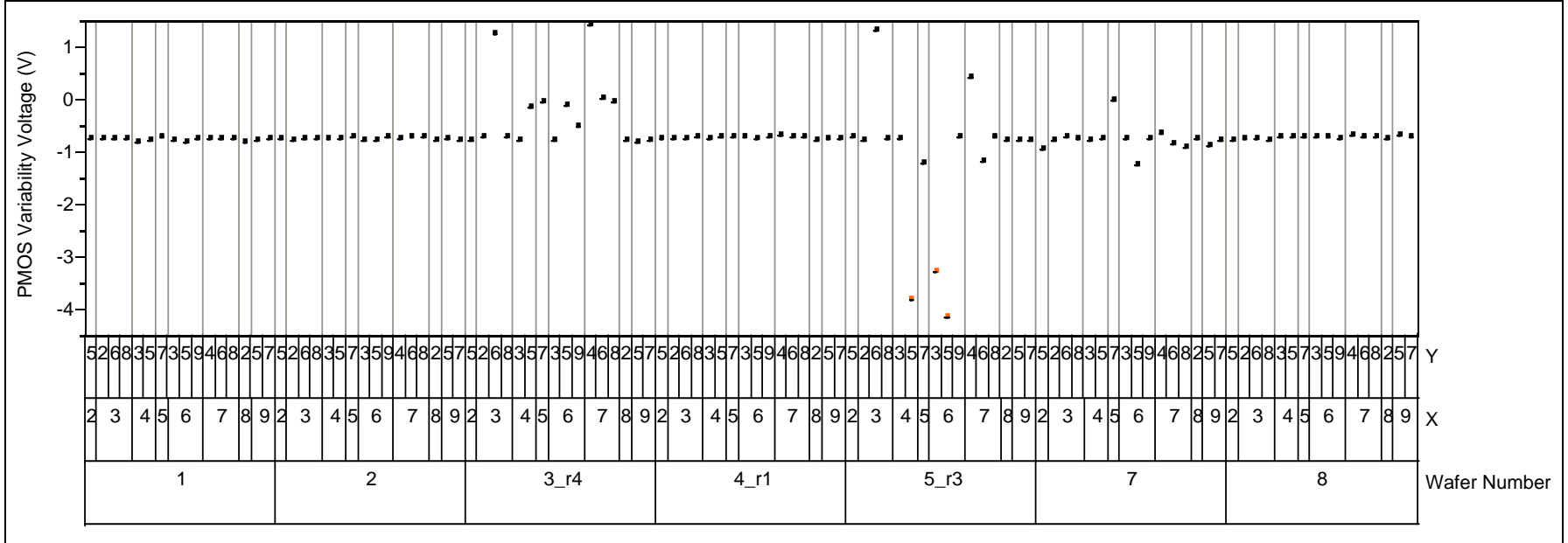


Figure 15. PMOS Threshold Voltage (LCL=0 V, UCL=-3 V, Target -0.75 V).

Variability Chart for PMOS Threshold Voltage (with cutoffs implemented)

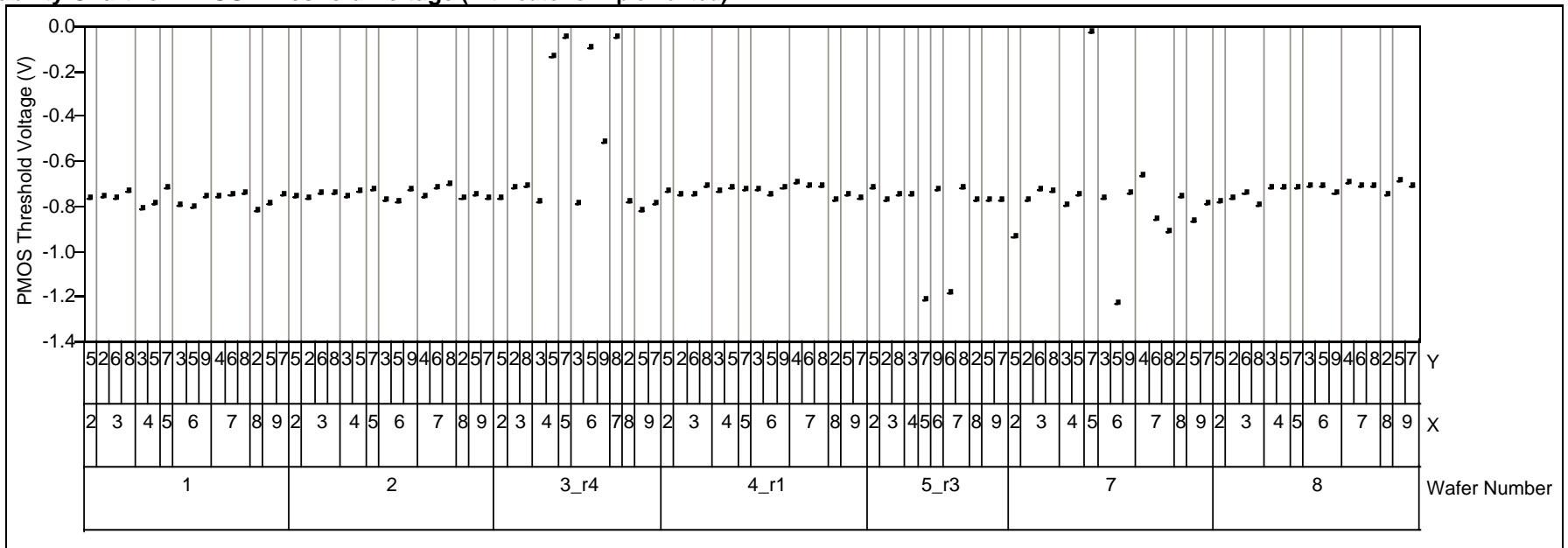


Figure 16. PMOS Threshold Voltage (LCL= -3 V, UCL= 0 V, Target -0.75 V).

Variability Chart for N+ Contact Resistance (all values included)

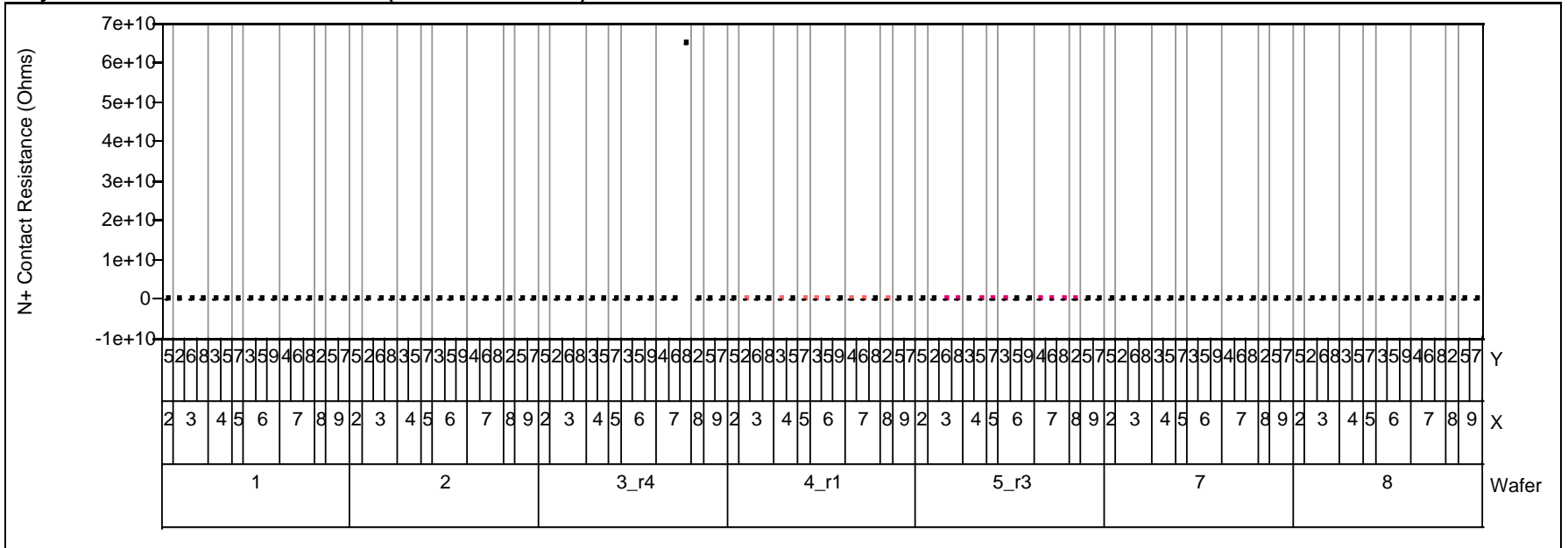


Figure 17. N+ Contact Resistance (LCL=0.001 Ohms, UCL=100 Ohms, Target 0.1 Ohms).

Variability Chart for N+ Contact Resistance (with cutoffs implemented)

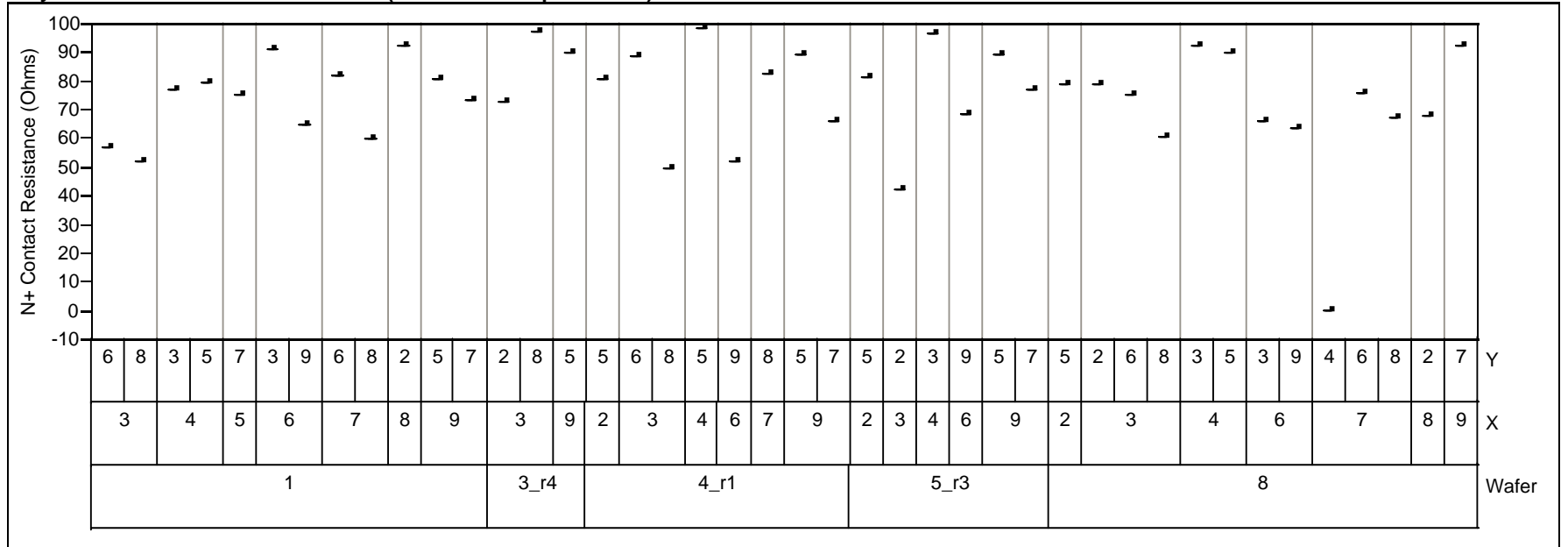


Figure 18. N+ Contact Resistance (LCL=0.001 Ohms, UCL=100 Ohms, Target 0.1 Ohms).

Variability Chart for P+ Contact Resistance (all values included)

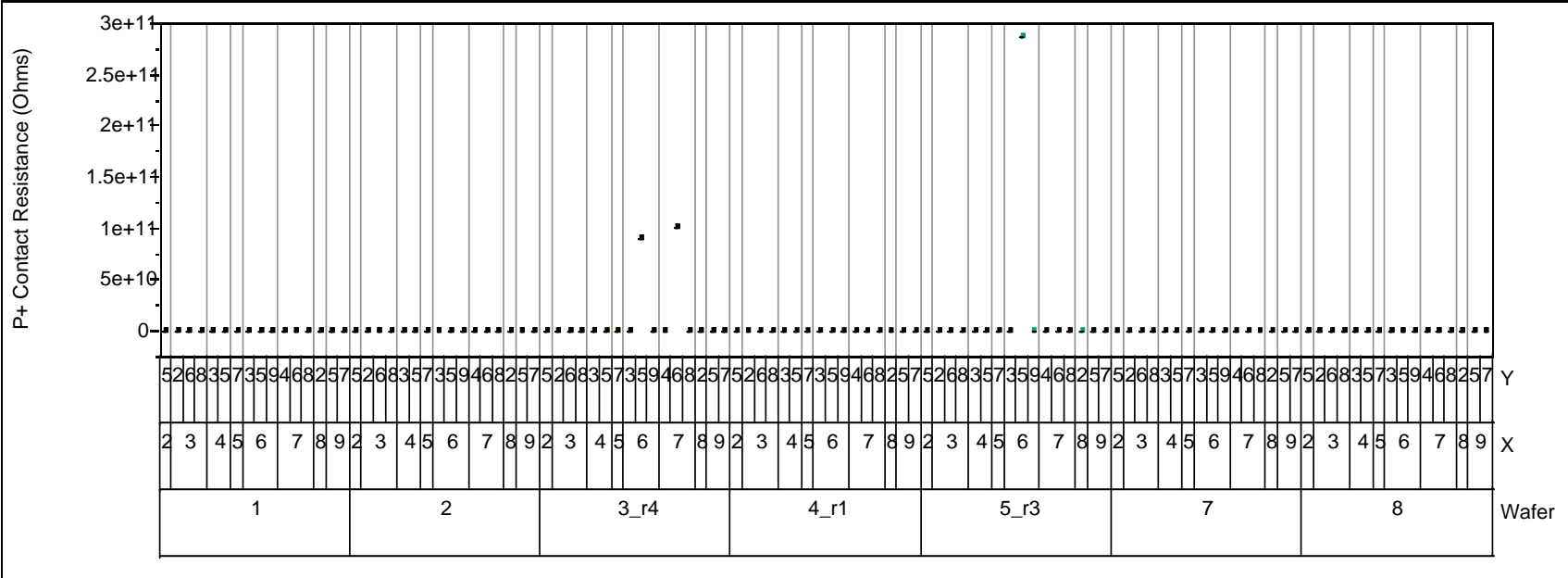


Figure 21. P+ Contact Resistance (LCL=0.1 Ohms, UCL=100 Ohms, Target 1 Ohms).

Variability Chart for P+ Contact Resistance (with cutoffs implemented)

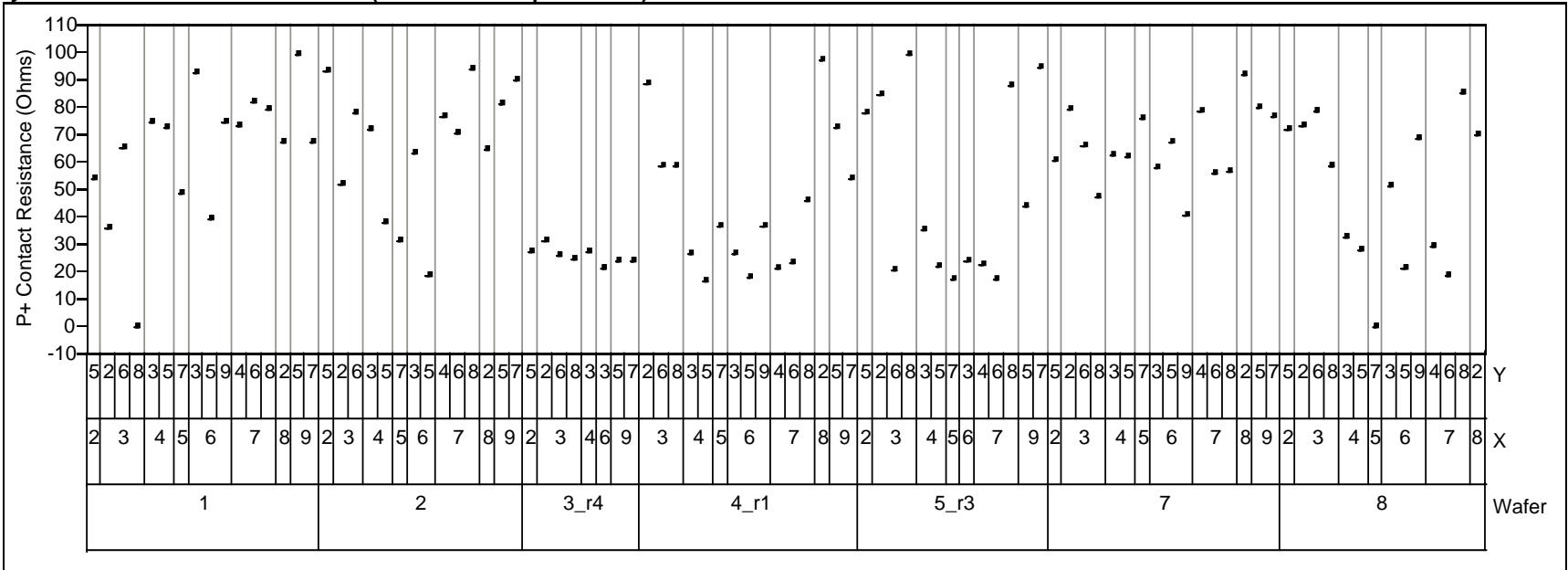


Figure 22. P+ Contact Resistance (LCL=0.1 Ohms, UCL=100 Ohms, Target 1 Ohms).

Variability Chart for P+ Contact Chain Resistance (all values included)

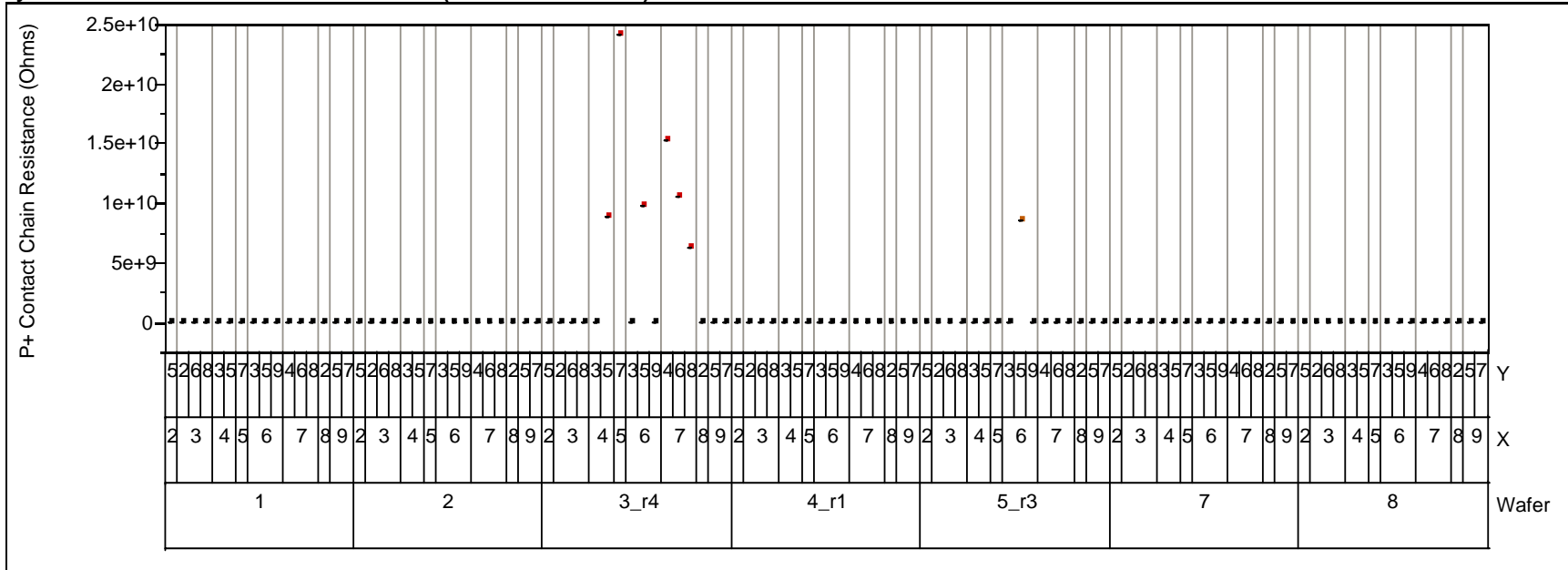


Figure 23. P+ Contact Chain Resistance (LCL=1KOhms, UCL=100KOhms, Target 4KOhms).

Variability Chart for P+ Contact Chain Resistance (with cutoffs implemented)

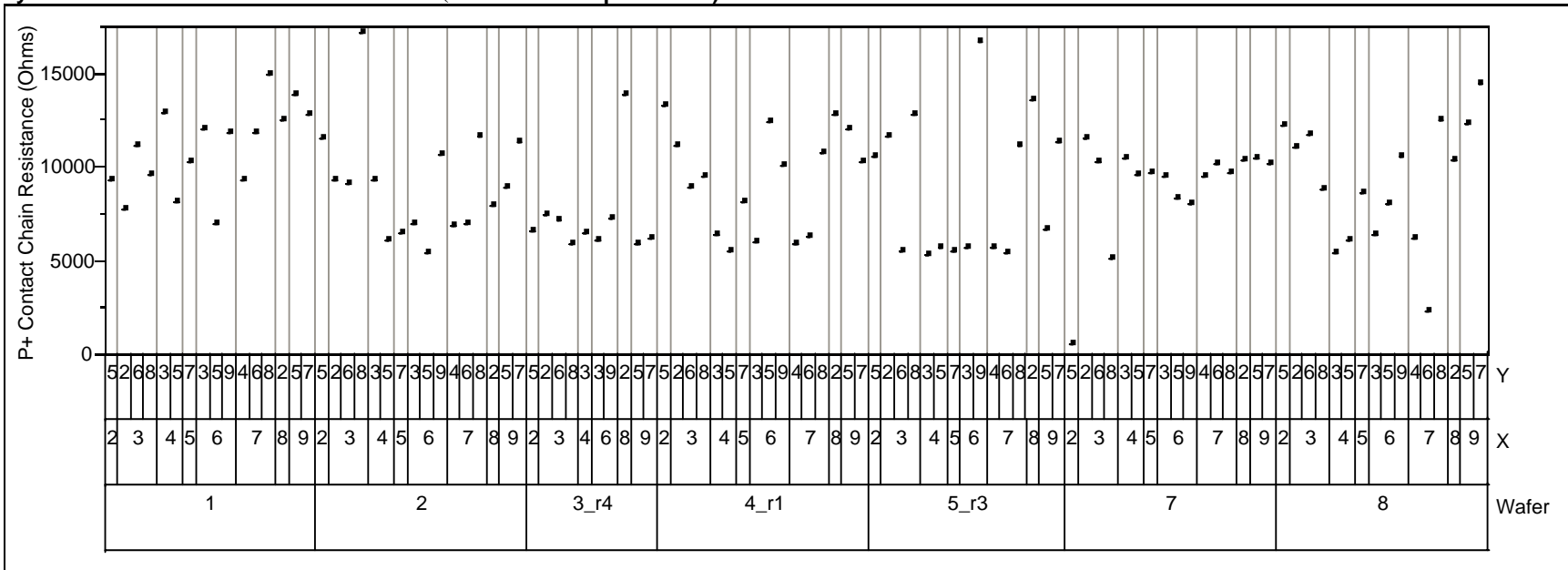


Figure 24. P+ Contact Chain Resistance (LCL=1KOhms, UCL=100KOhms, Target 4KOhms).

Variability Chart for Poly Contact Chain Resistance (all values included)

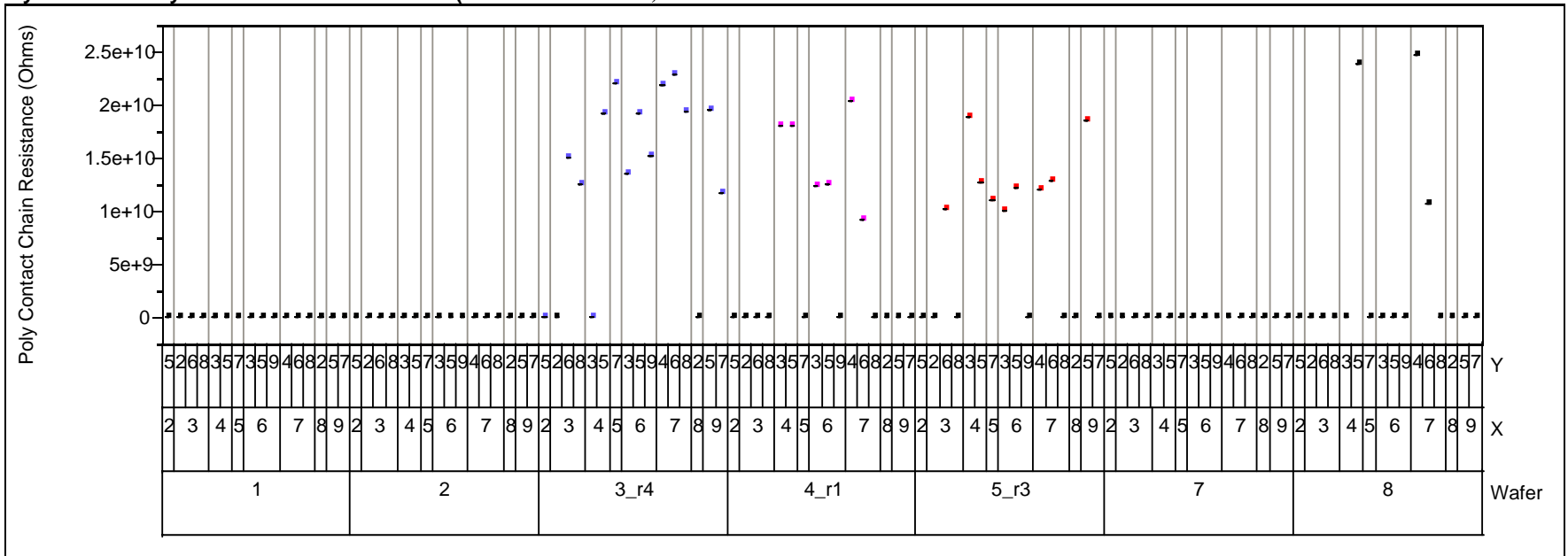


Figure 27. Poly Contact Chain Resistance (LCL=1Kohms, UCL=100KOhms, Target 4.9KOhms).

Variability Chart for Poly Contact Chain Resistance (with cutoffs implemented)

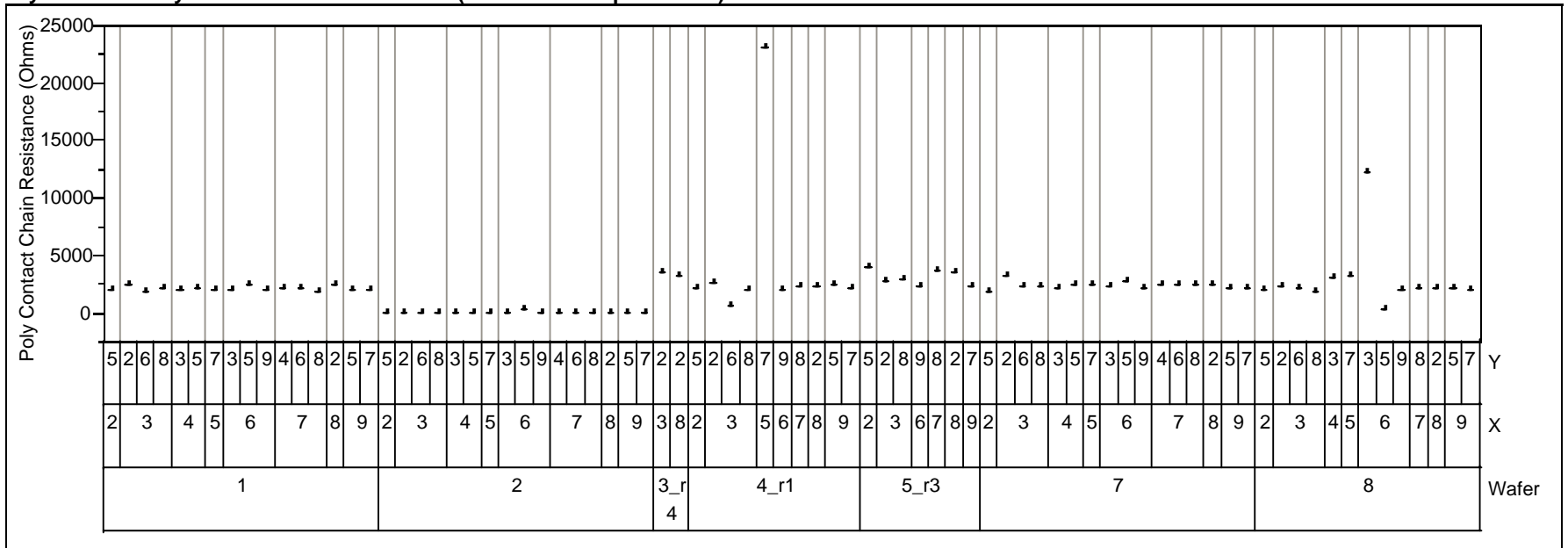


Figure 28. Poly Contact Chain Resistance (LCL=1KOhms, UCL=100KOhms, Target 4.9KOhms).

Variability Chart for M1 Sheet Resistance (all values included)

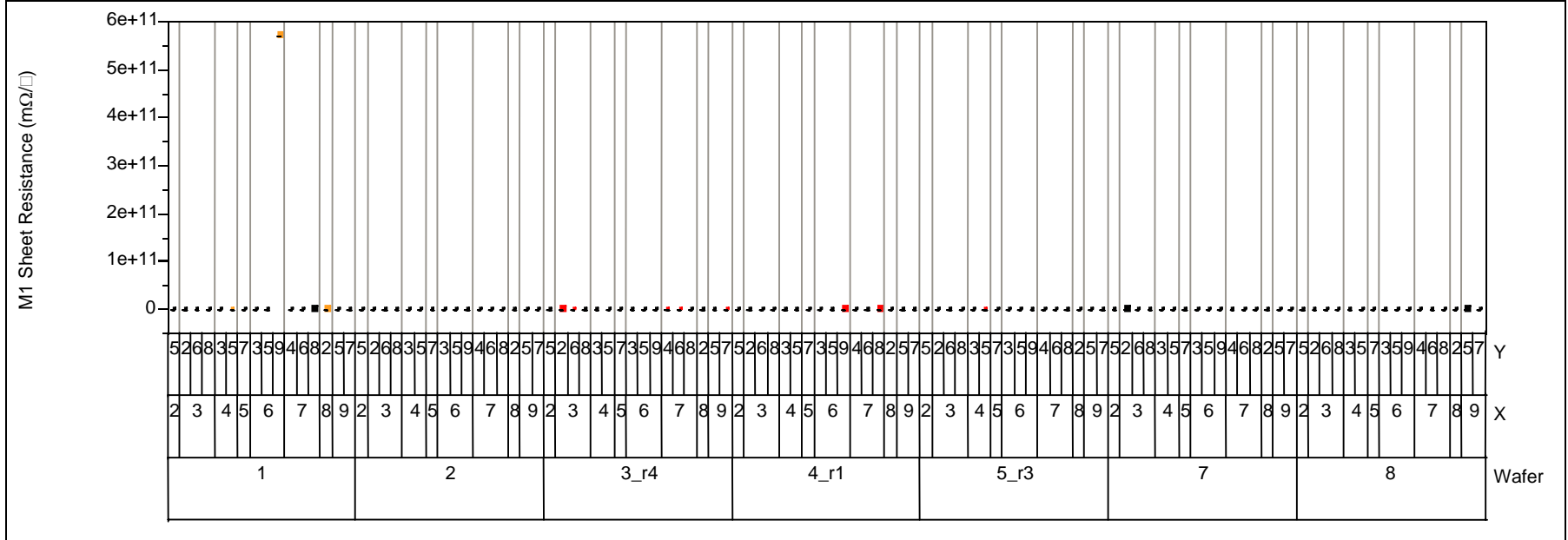


Figure 29. Metal1 Sheet Resistance (LCL=10mOhms/sq, UCL=100mOhms/sq, Target 56.7mOhms/sq).

Variability Chart for M1 Sheet Resistance (with cutoffs implemented)

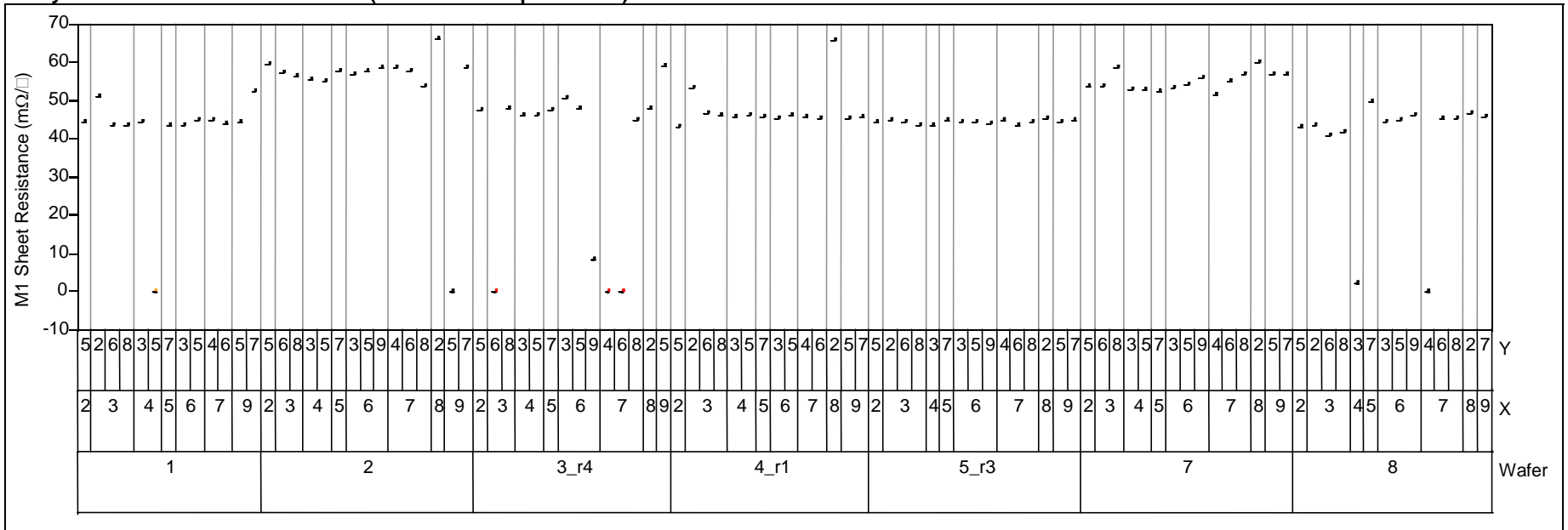


Figure 30. Metal1 Sheet Resistance (LCL=10mOhms/sq, UCL=100mOhms/sq, Target 56.7mOhms/sq).

Variability Chart for M1 CD (all values included)

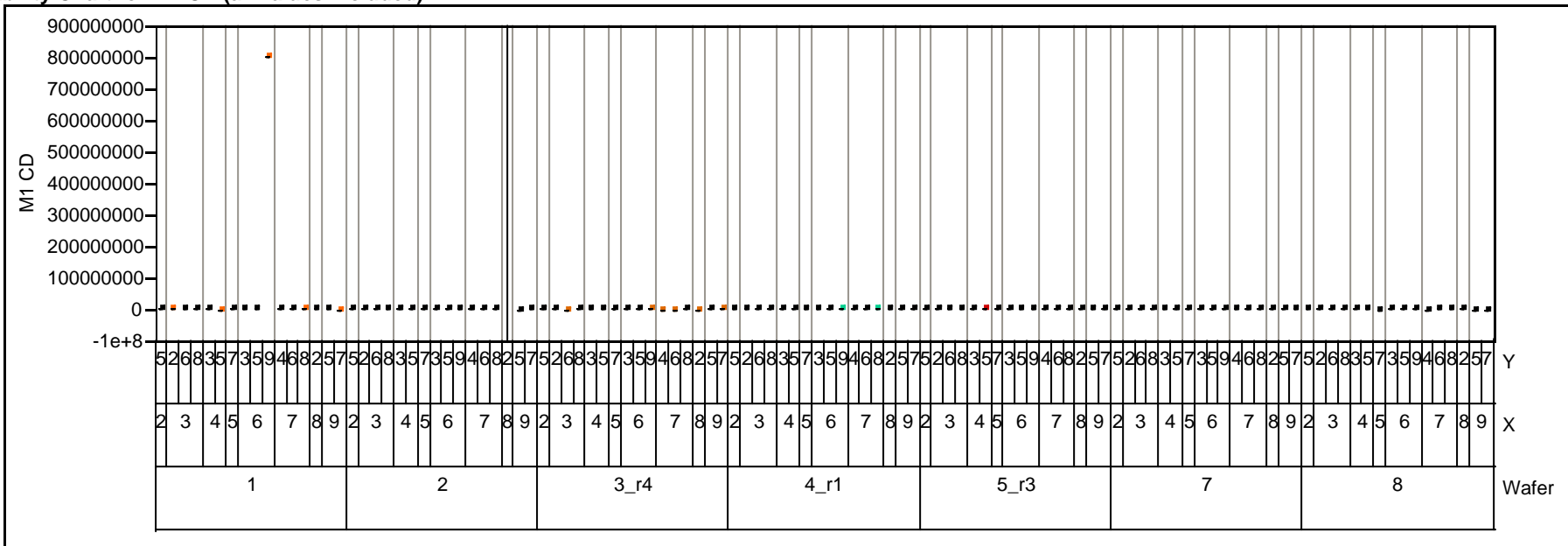


Figure 31. M1 CD (LCL=1 μ m, UCL=5.5 μ m, Target 3 μ m).

Variability Chart for M1 CD (with cutoffs implemented)

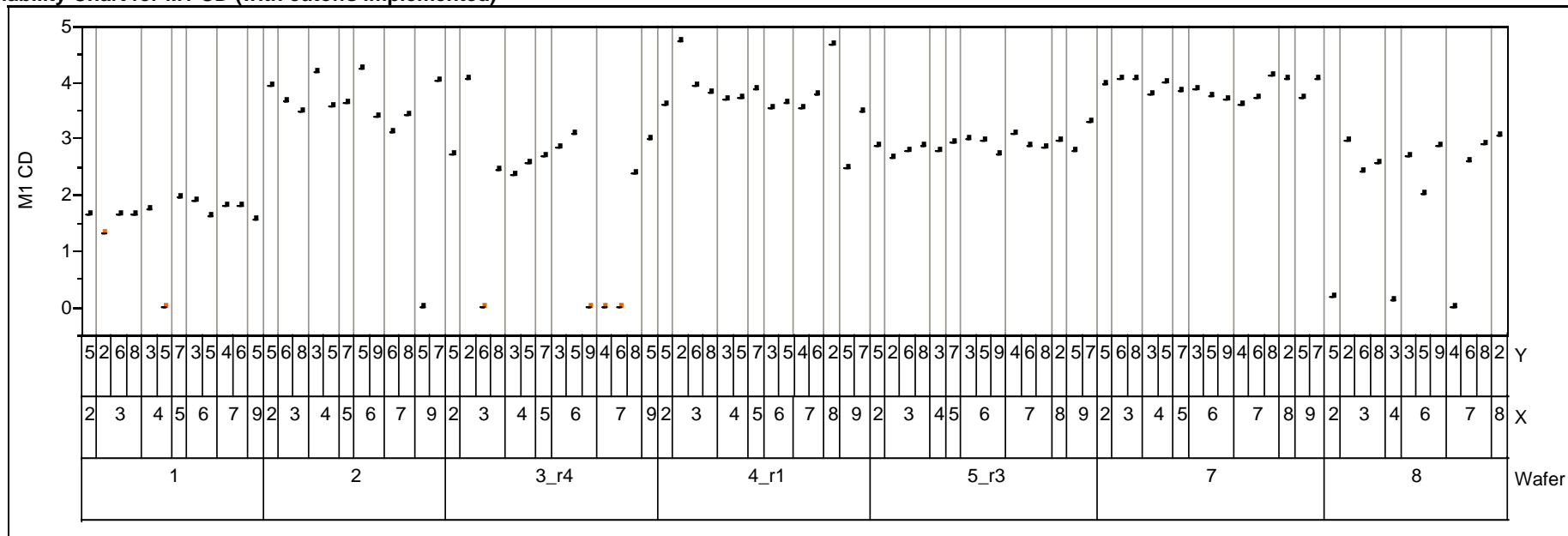


Figure 32. M1 CD (LCL=1 μ m, UCL=5.5 μ m, Target 3 μ m).

Variability Chart for M1 Comb Leakage (all values included)

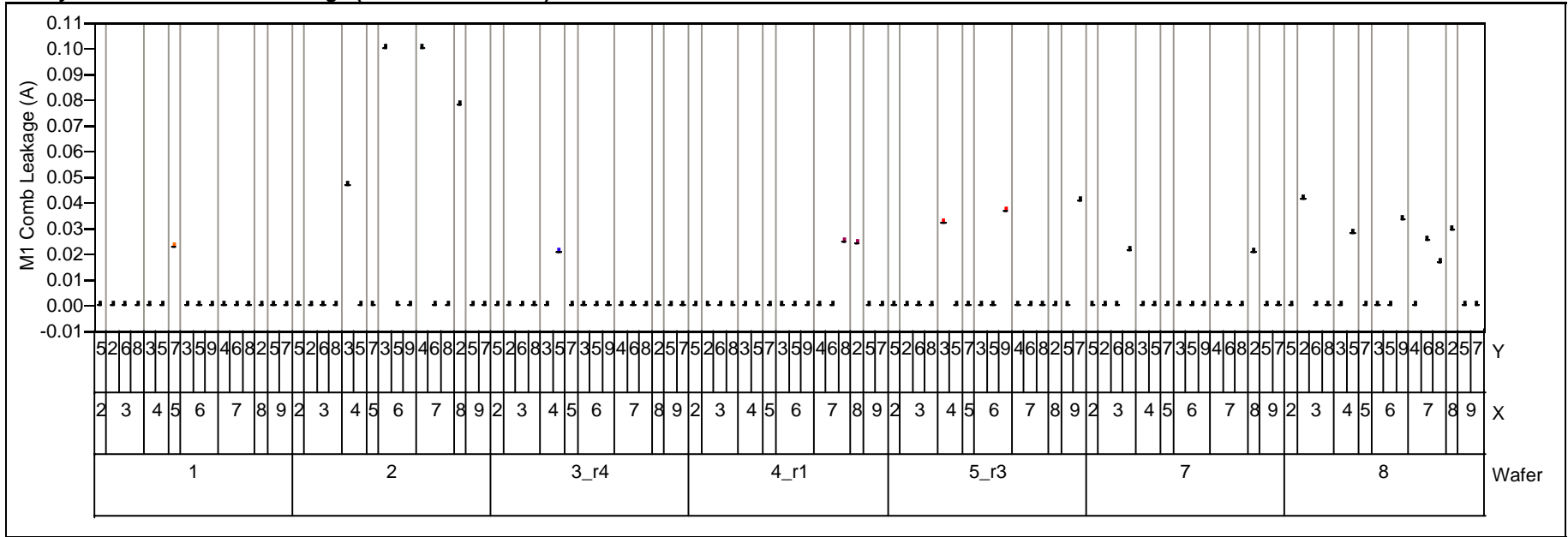


Figure 33. M1 Comb Leakage (LCL=0 A, UCL=1E-9 A, Target 1E-12 A).

Variability Chart for M1 Comb Leakage (with cutoffs implemented)

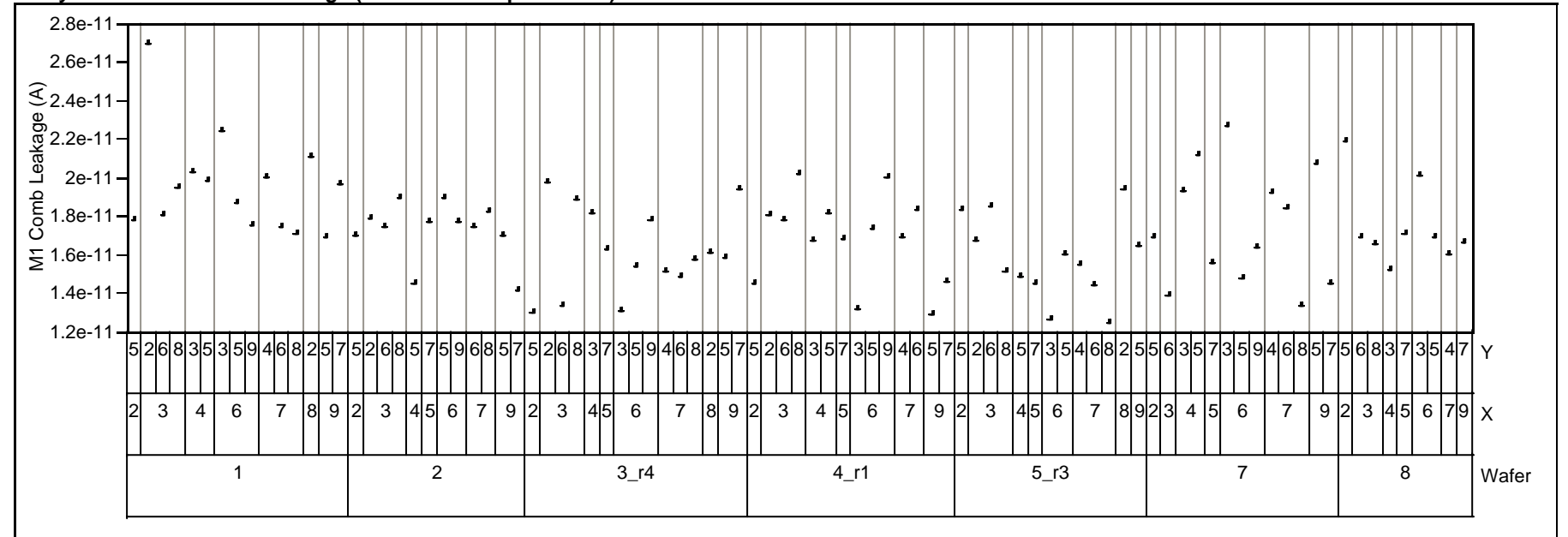


Figure 34. M1 Comb Leakage (LCL=0 A, UCL=1E-9 A, Target 1E-12 A).

Variability Chart for M1 Serpentine Resistance (all values included)

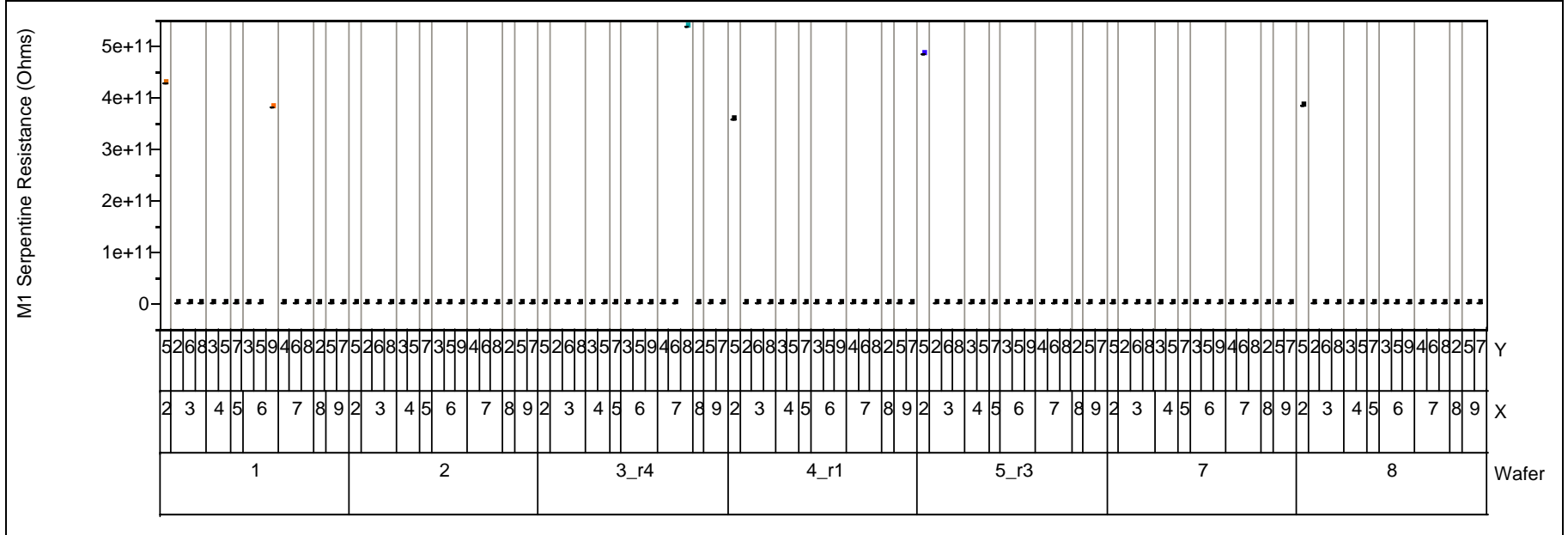


Figure 35. M1 Serpentine Resistance (LCL=10 Ohms, UCL=450 Ohms, Target 85 Ohms).

Variability Chart for M1 Serpentine Resistance (with cutoffs implemented)

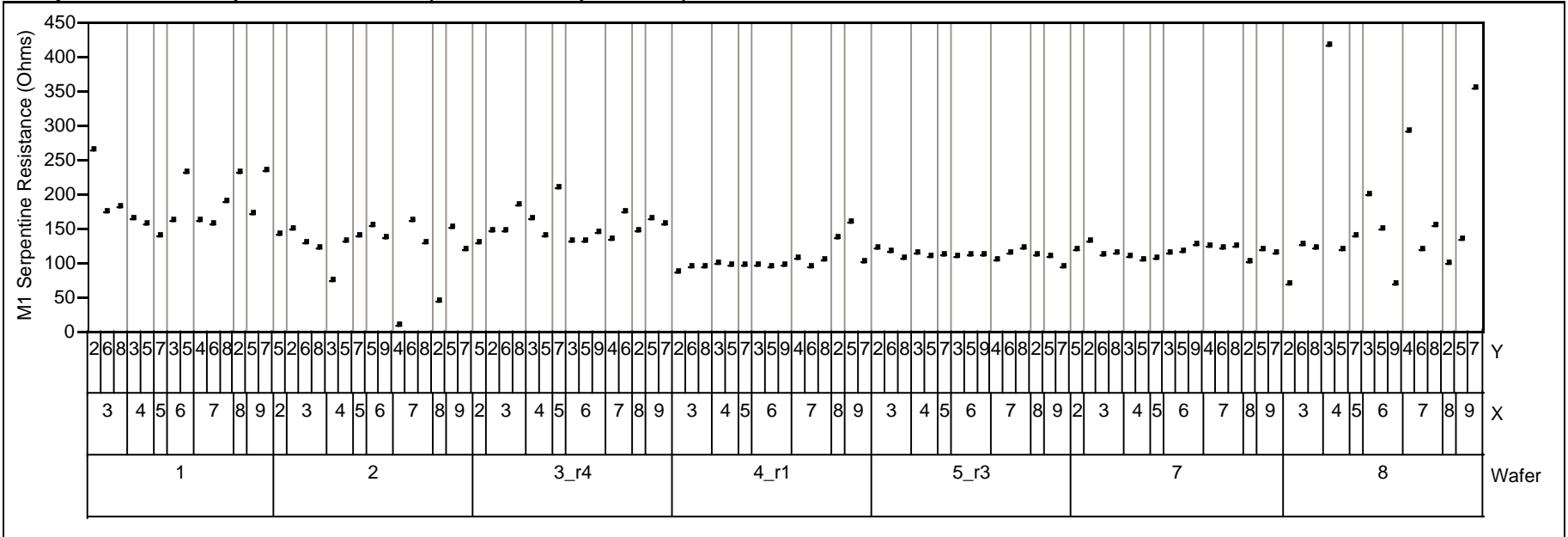


Figure 36. M1 Serpentine Resistance (LCL=10 Ohms, UCL=450 Ohms, Target 85 Ohms).