

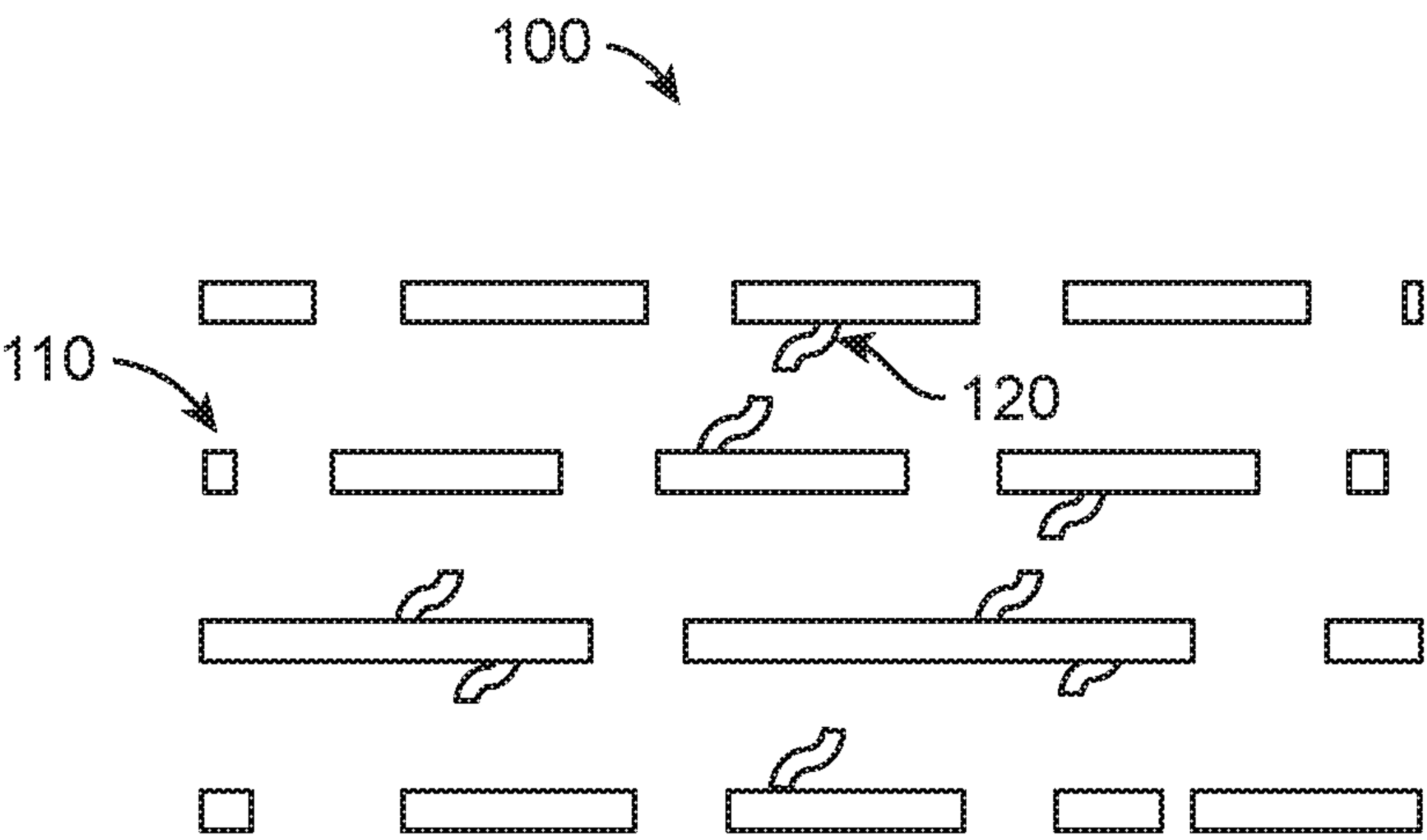


FIG. 1

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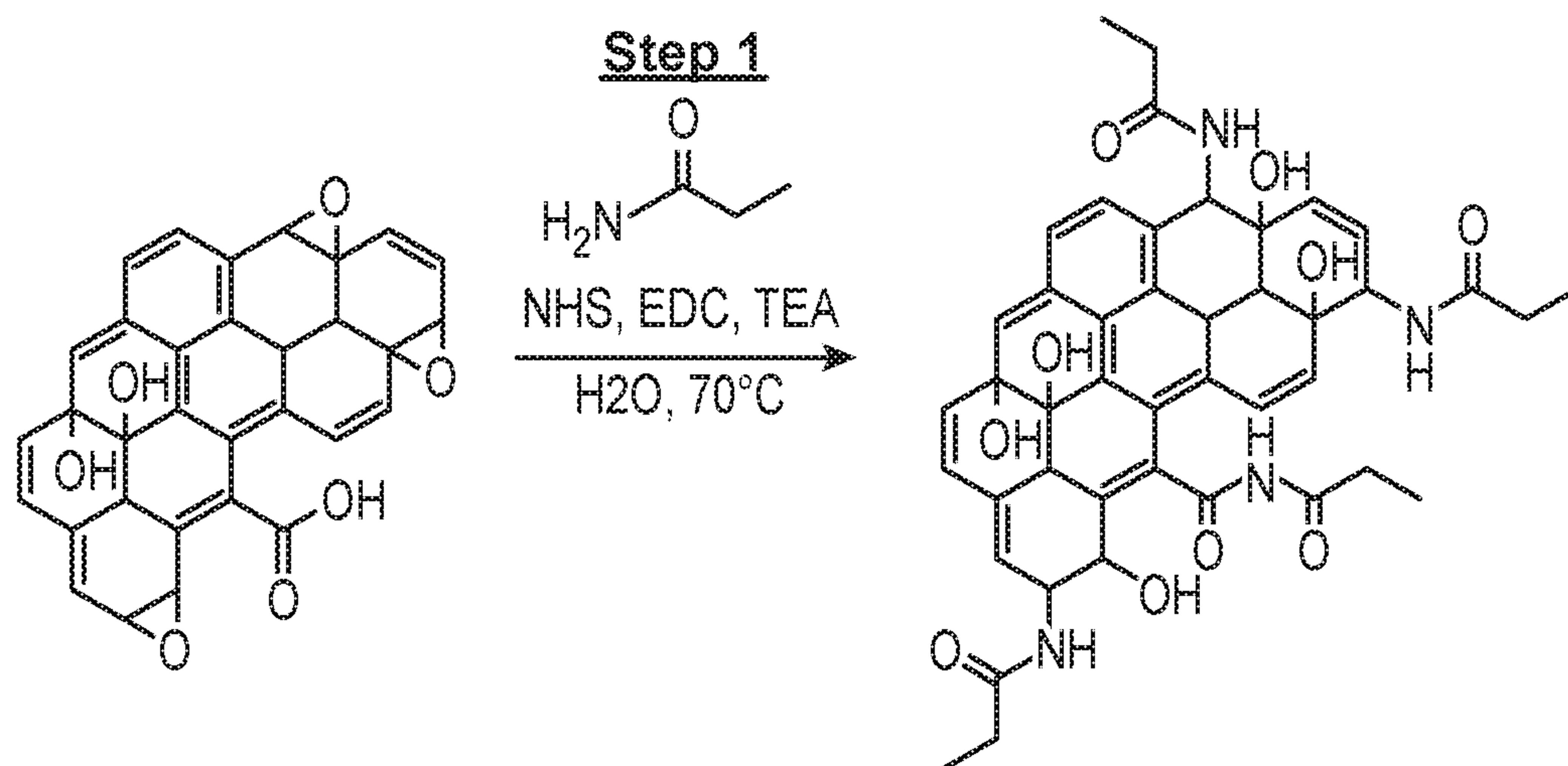


FIG. 2A

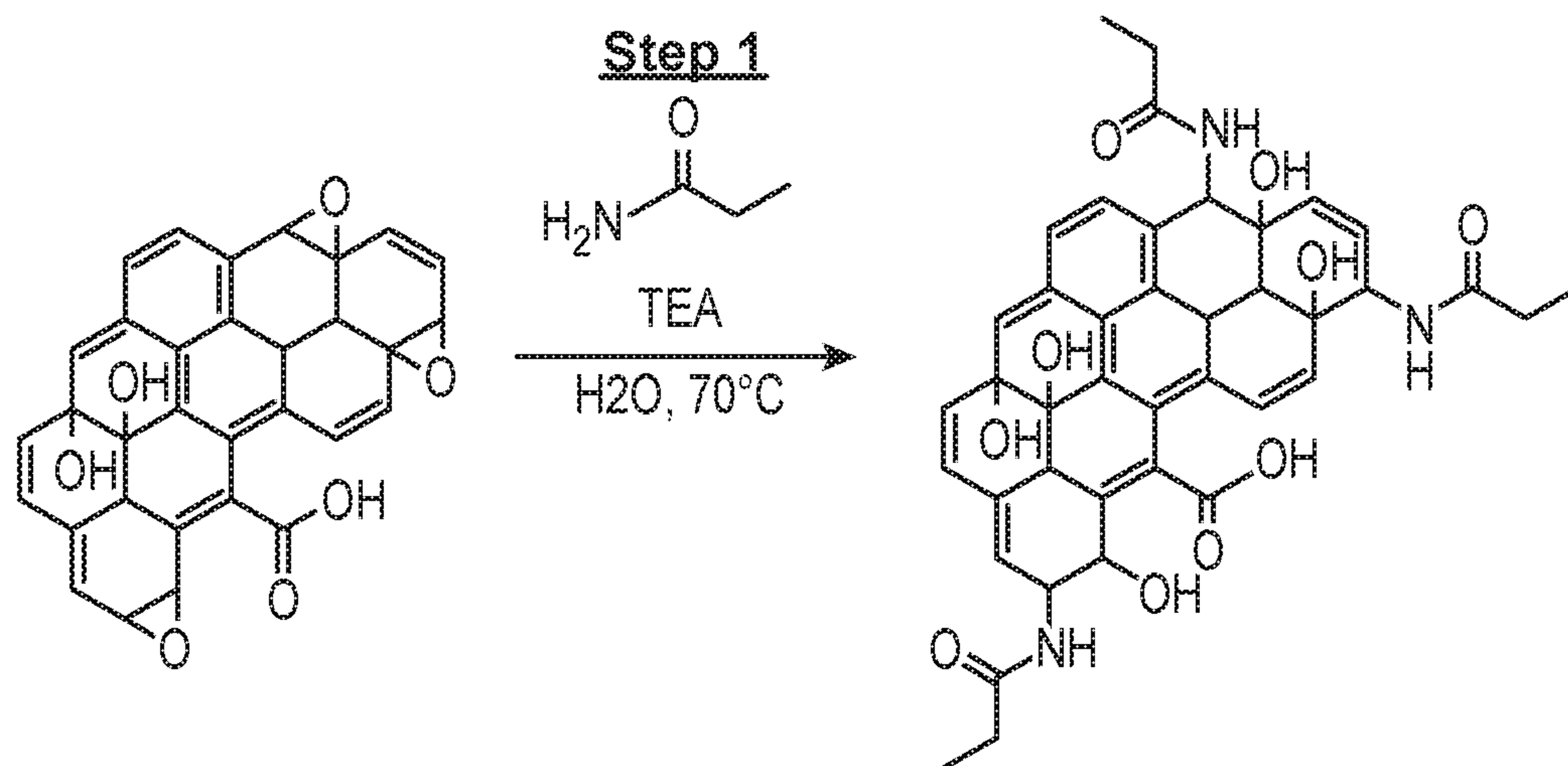


FIG. 2B

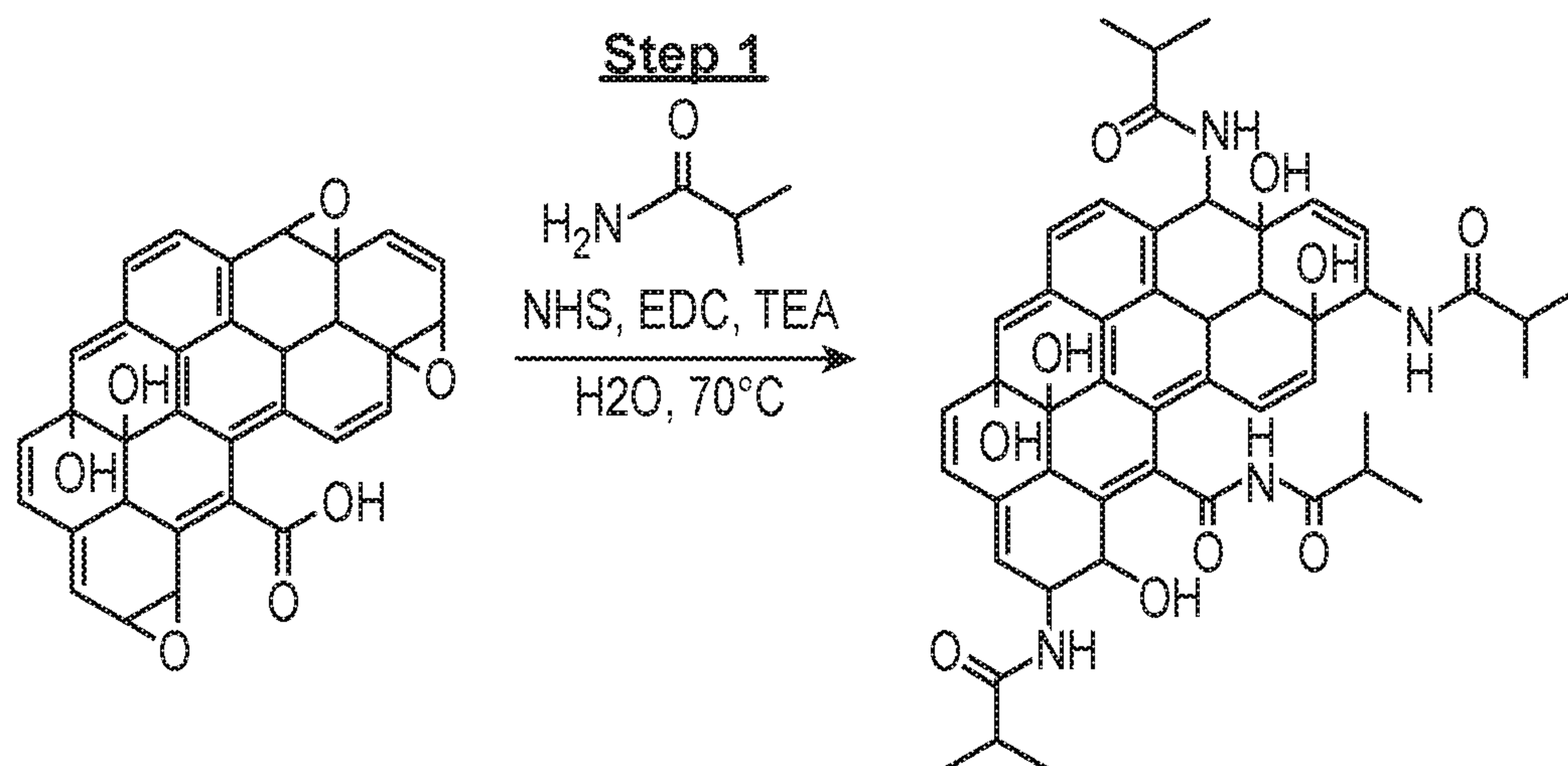


FIG. 2C

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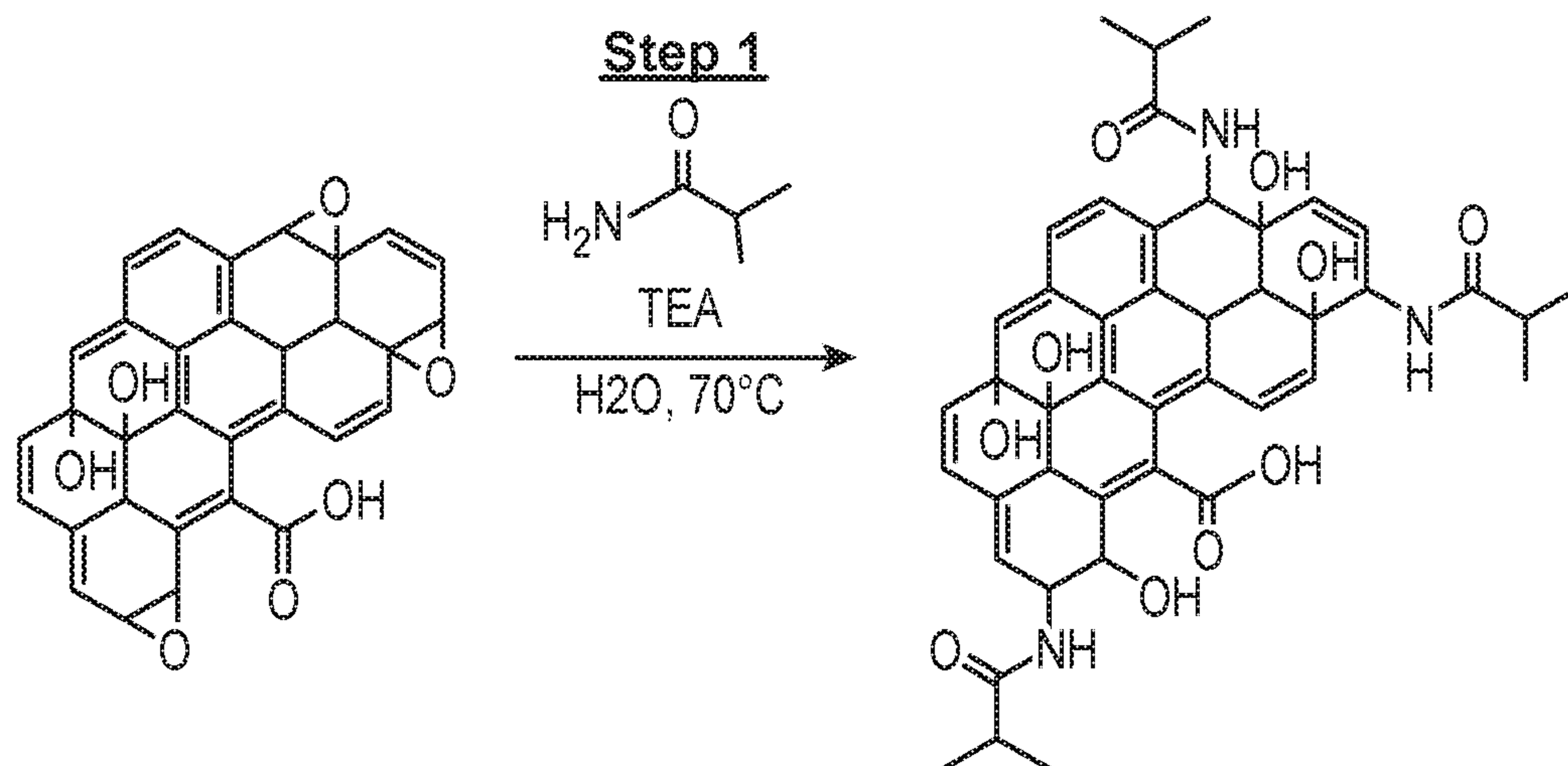


FIG. 2D

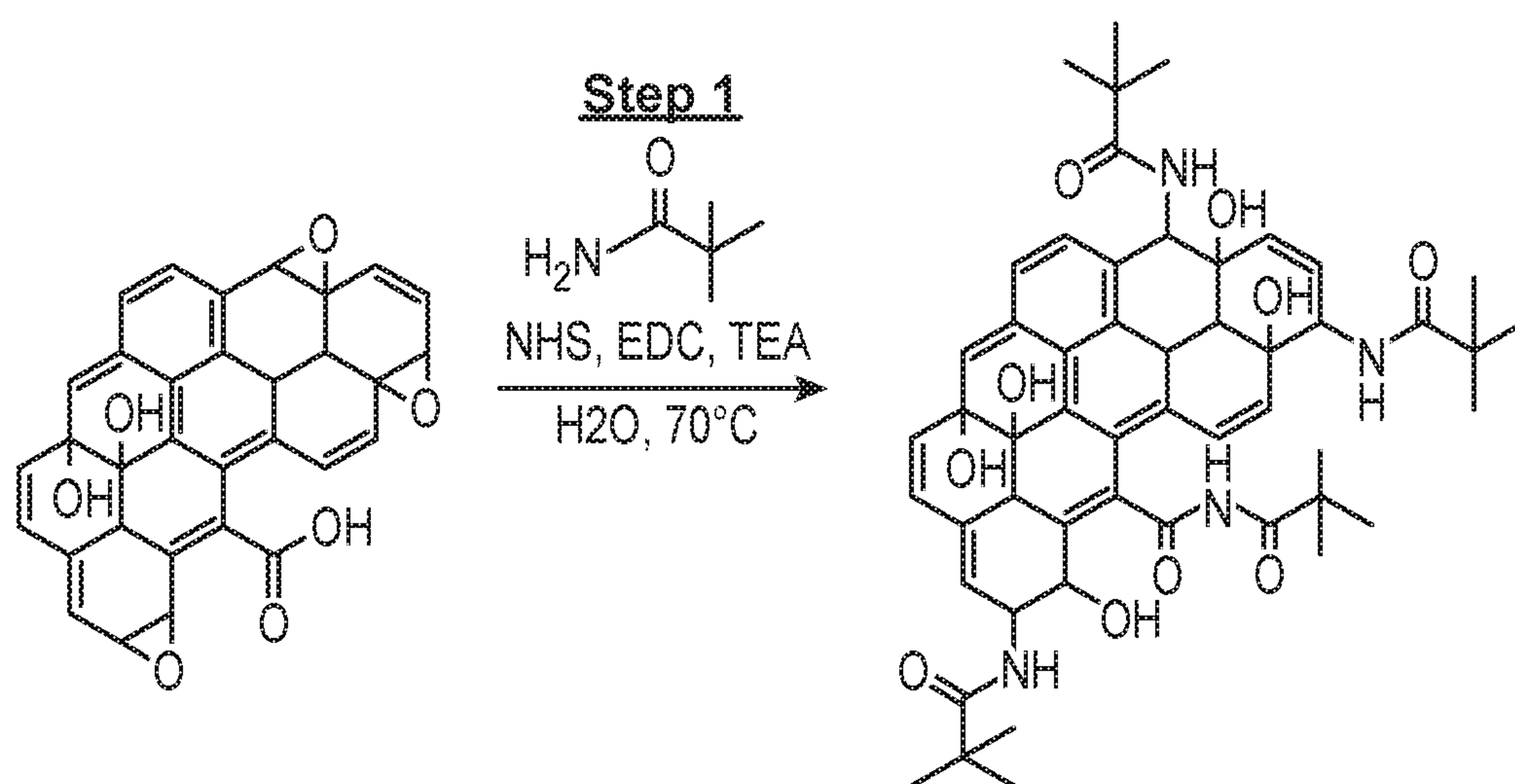


FIG. 2E

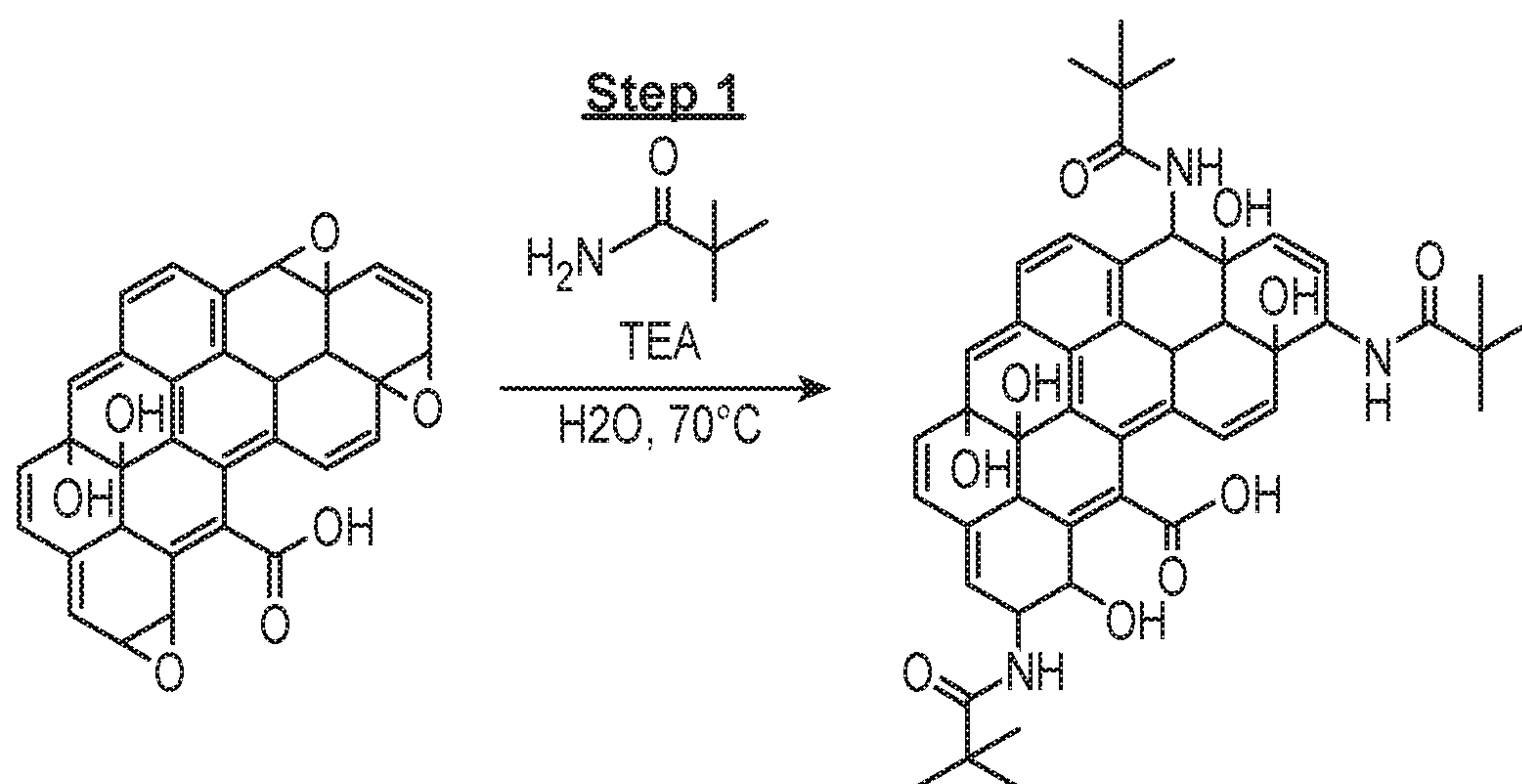


FIG. 2F

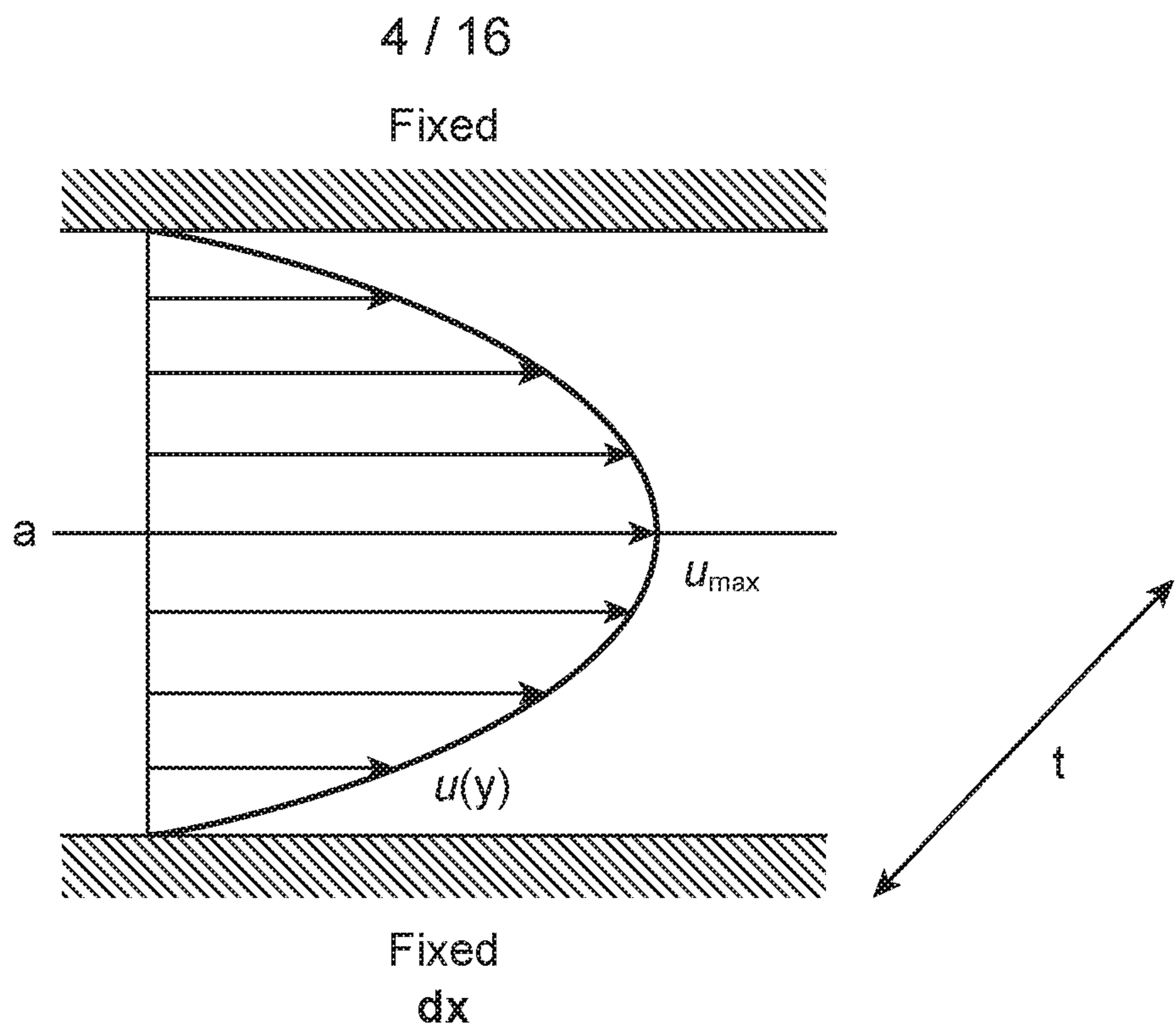


FIG. 3

For each tDS. Just high Reject = 1.0 750  
first Modules Pressure = 1000

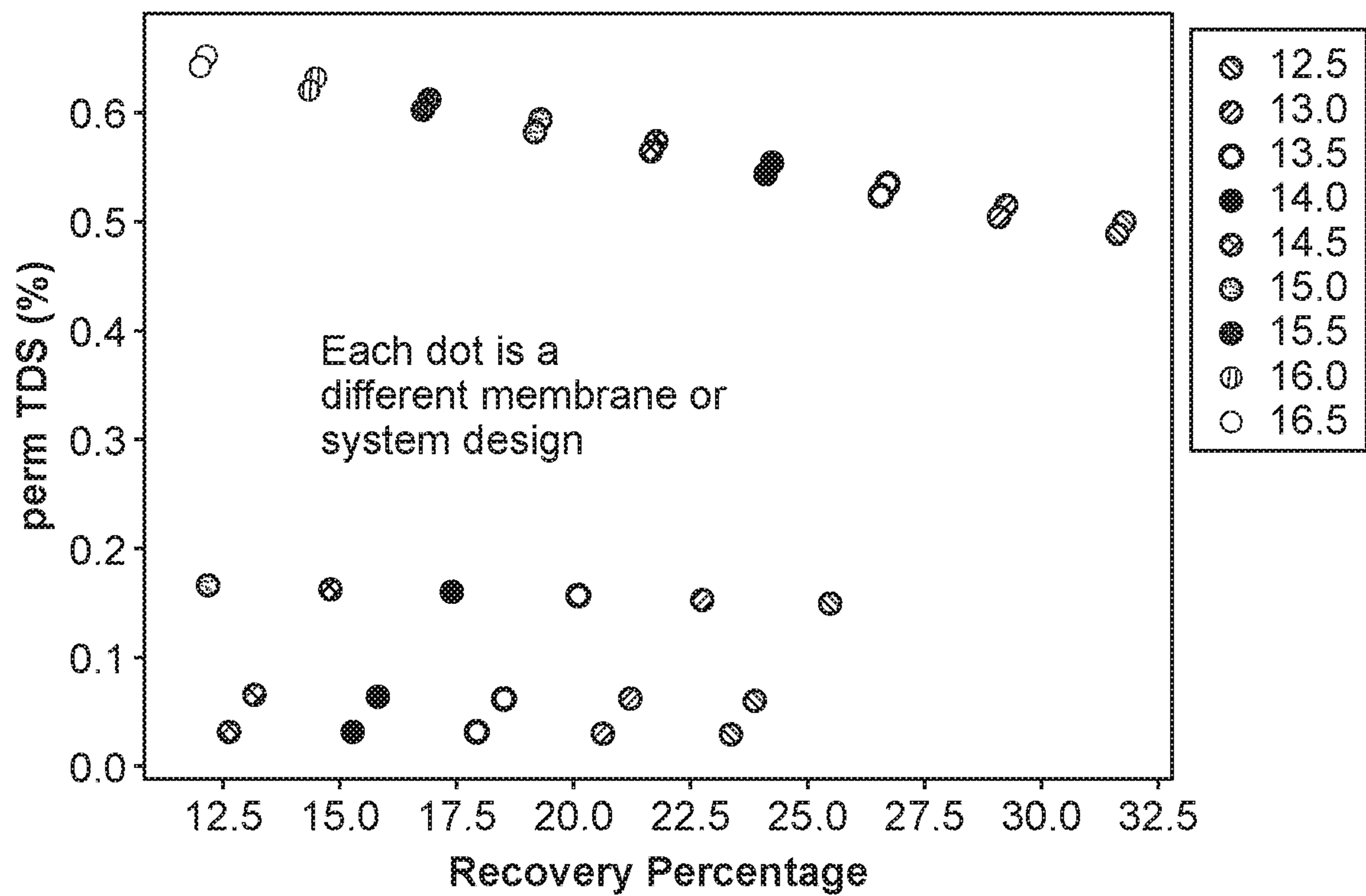
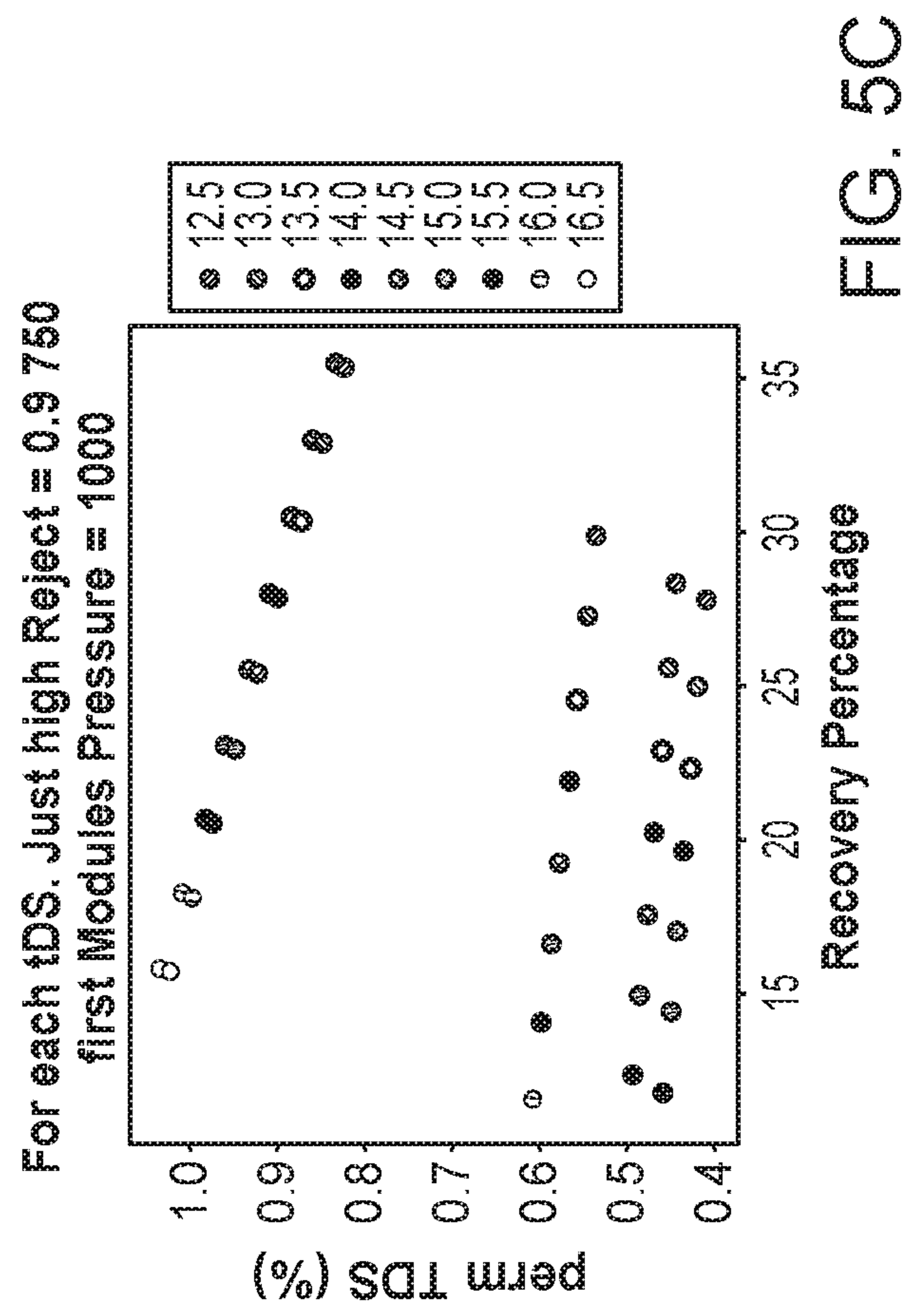
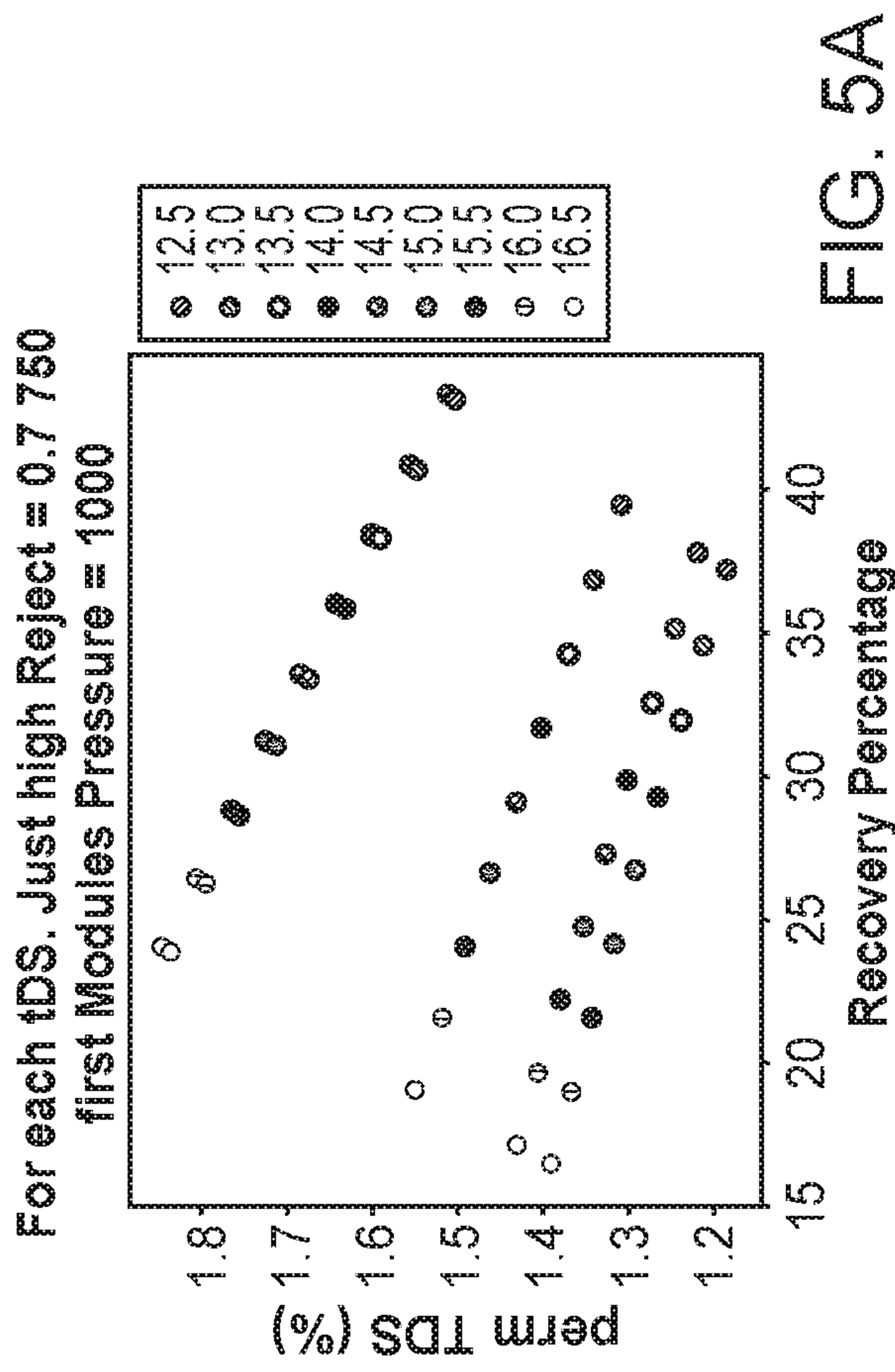
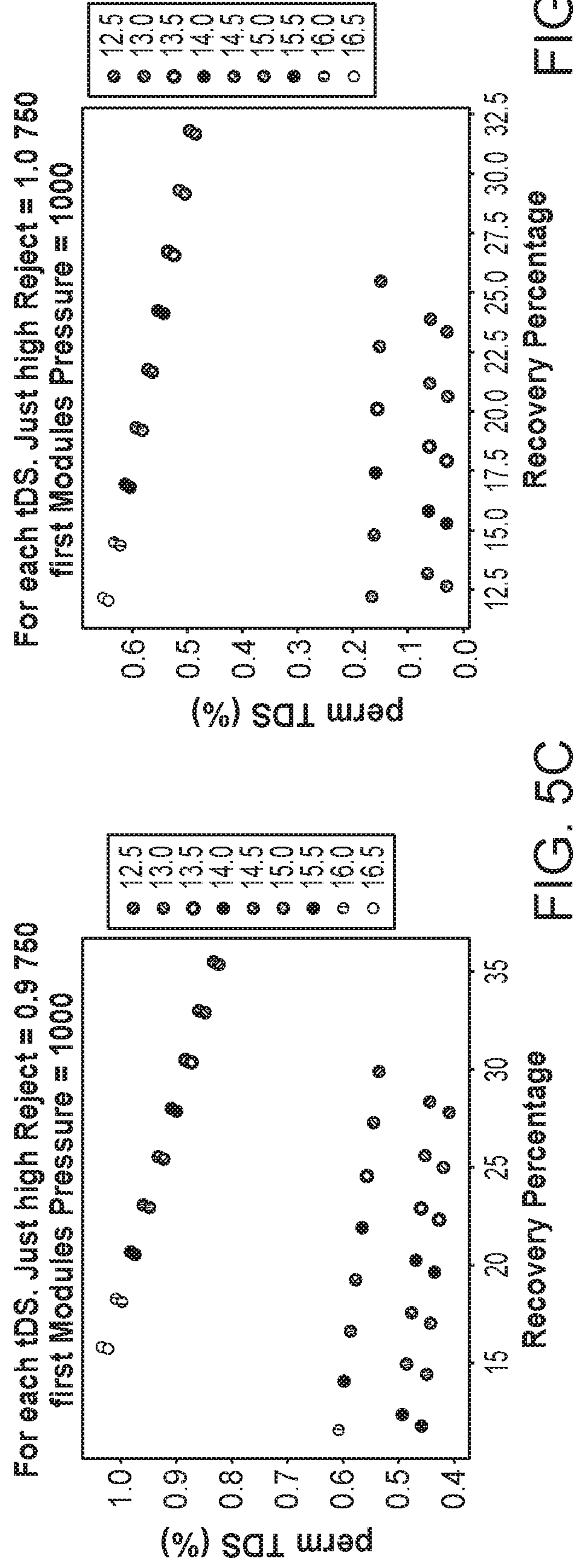
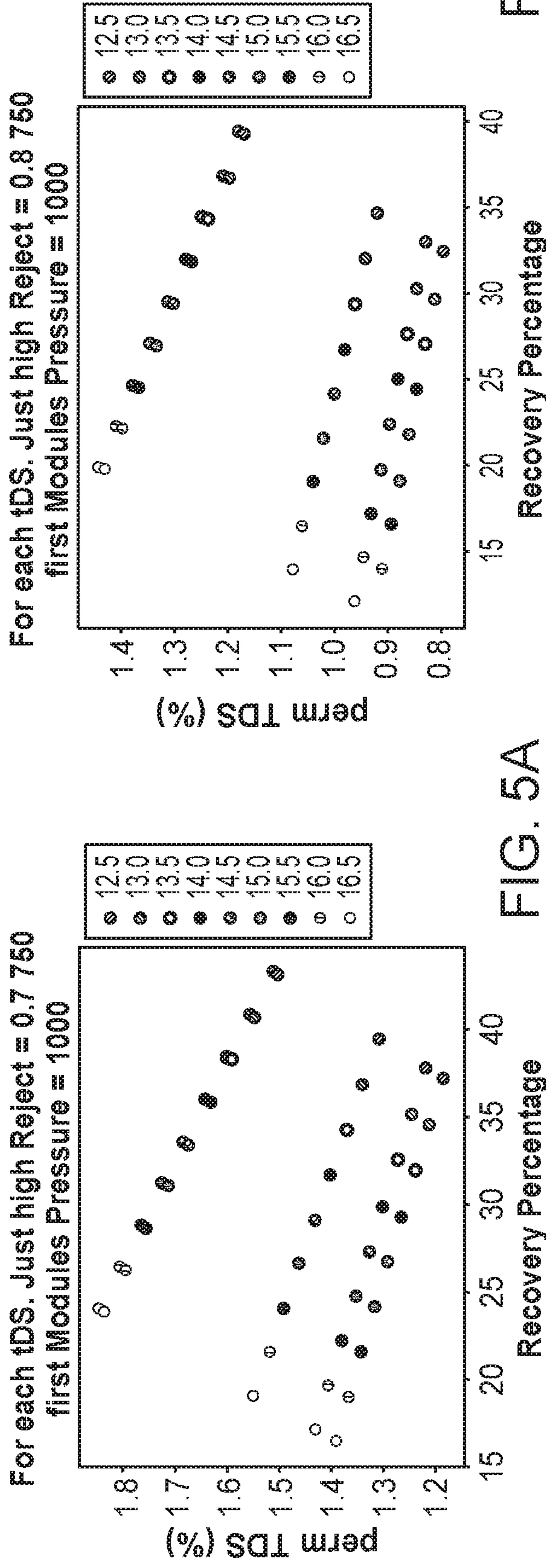
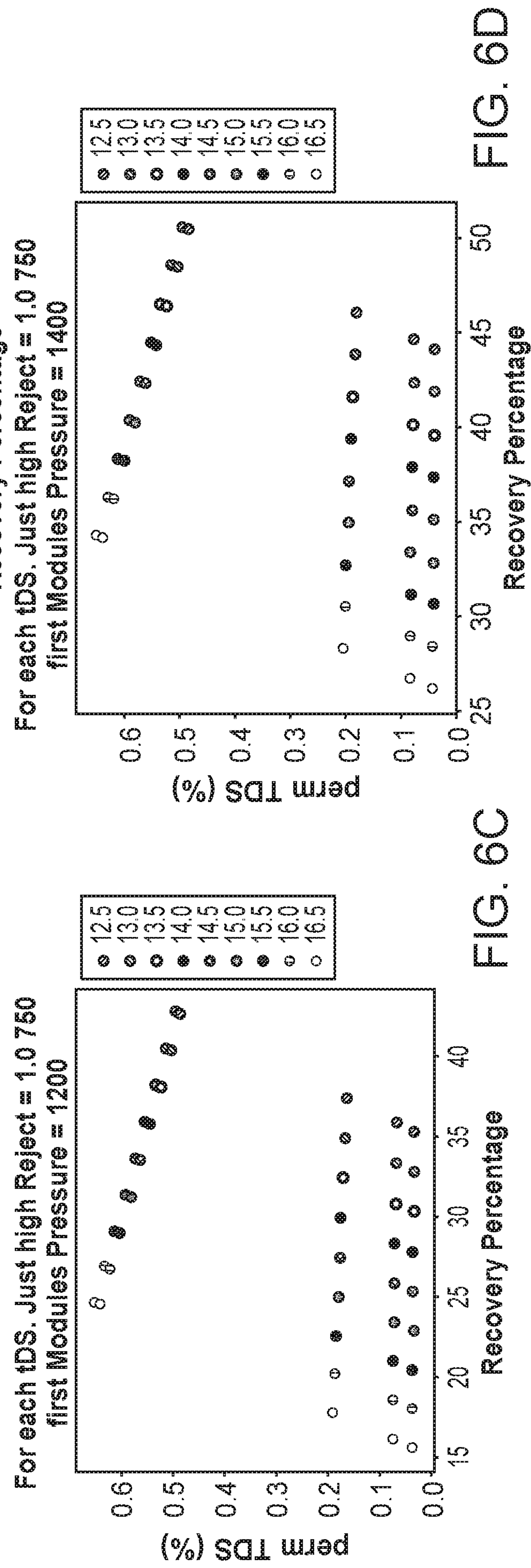
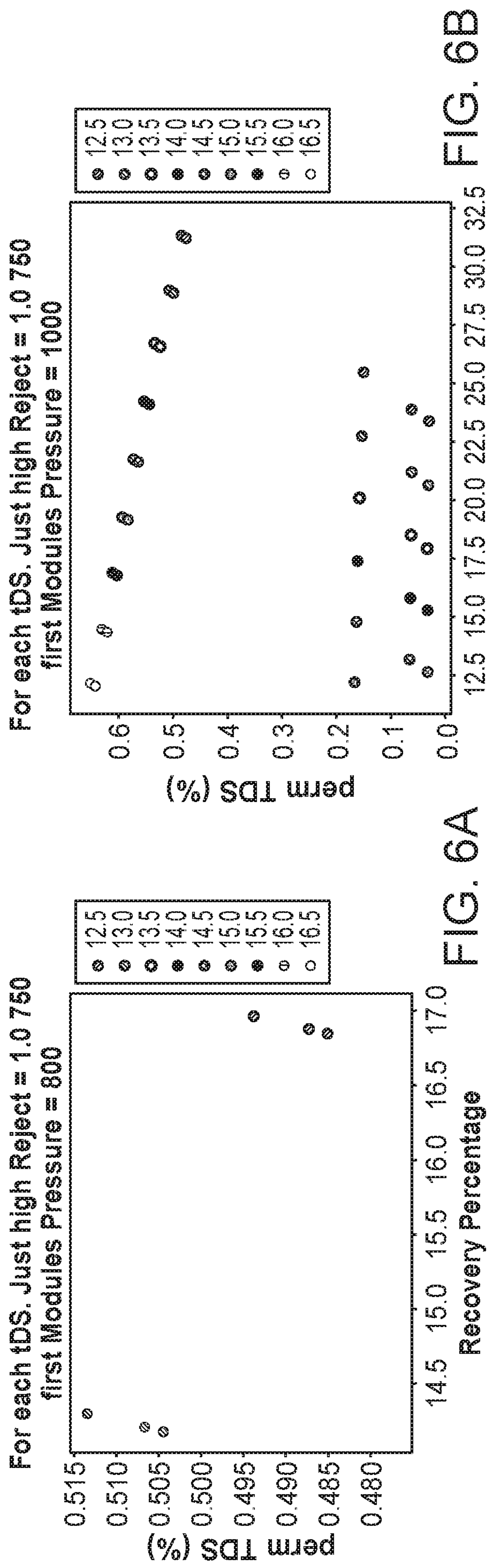


FIG. 4





For each tDS. Just high Reject = 1.0 300  
first Modules Pressure = 1200

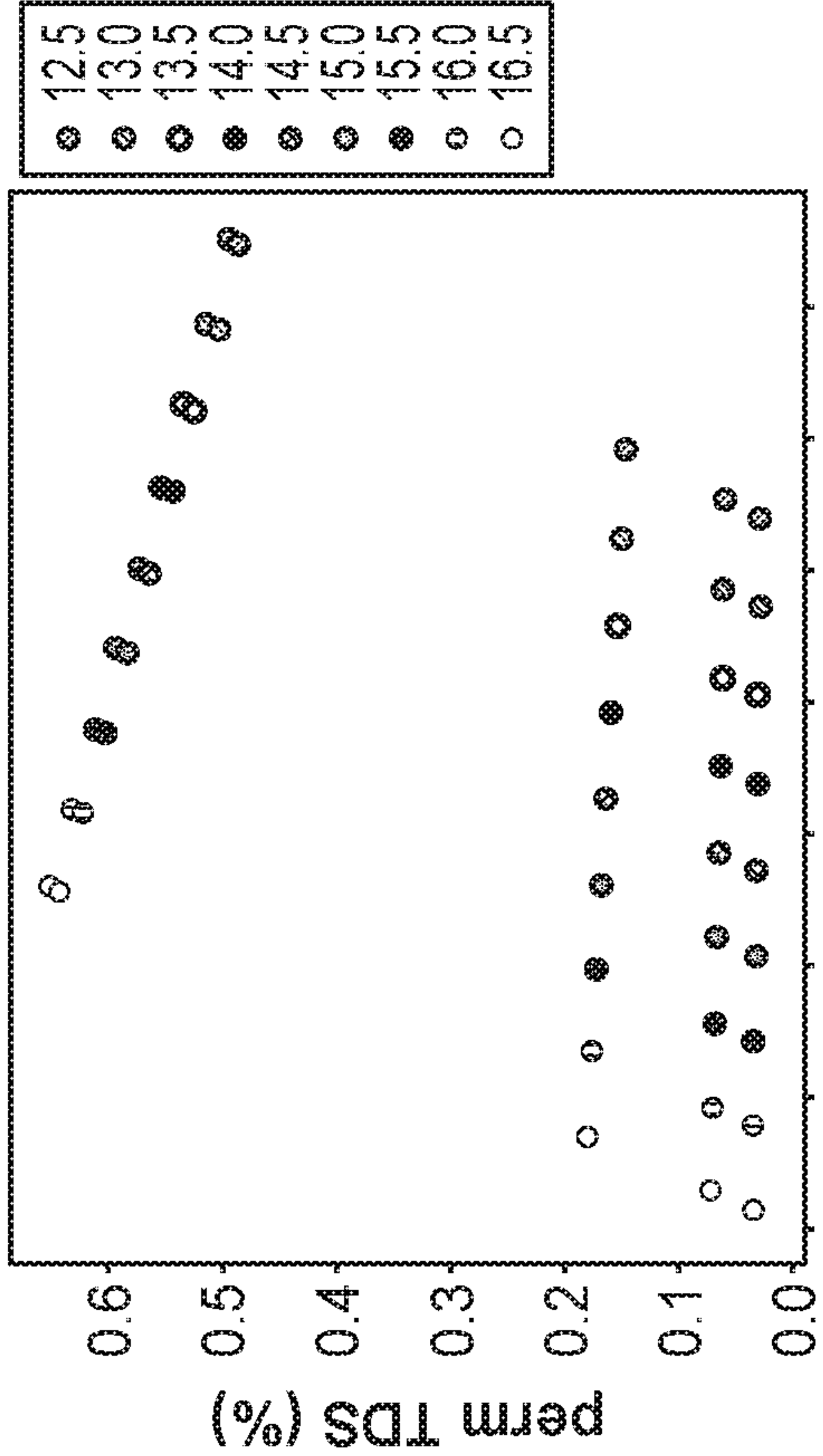


FIG. 7A

For each tDS. Just high Reject = 1.0 750  
first Modules Pressure = 1200

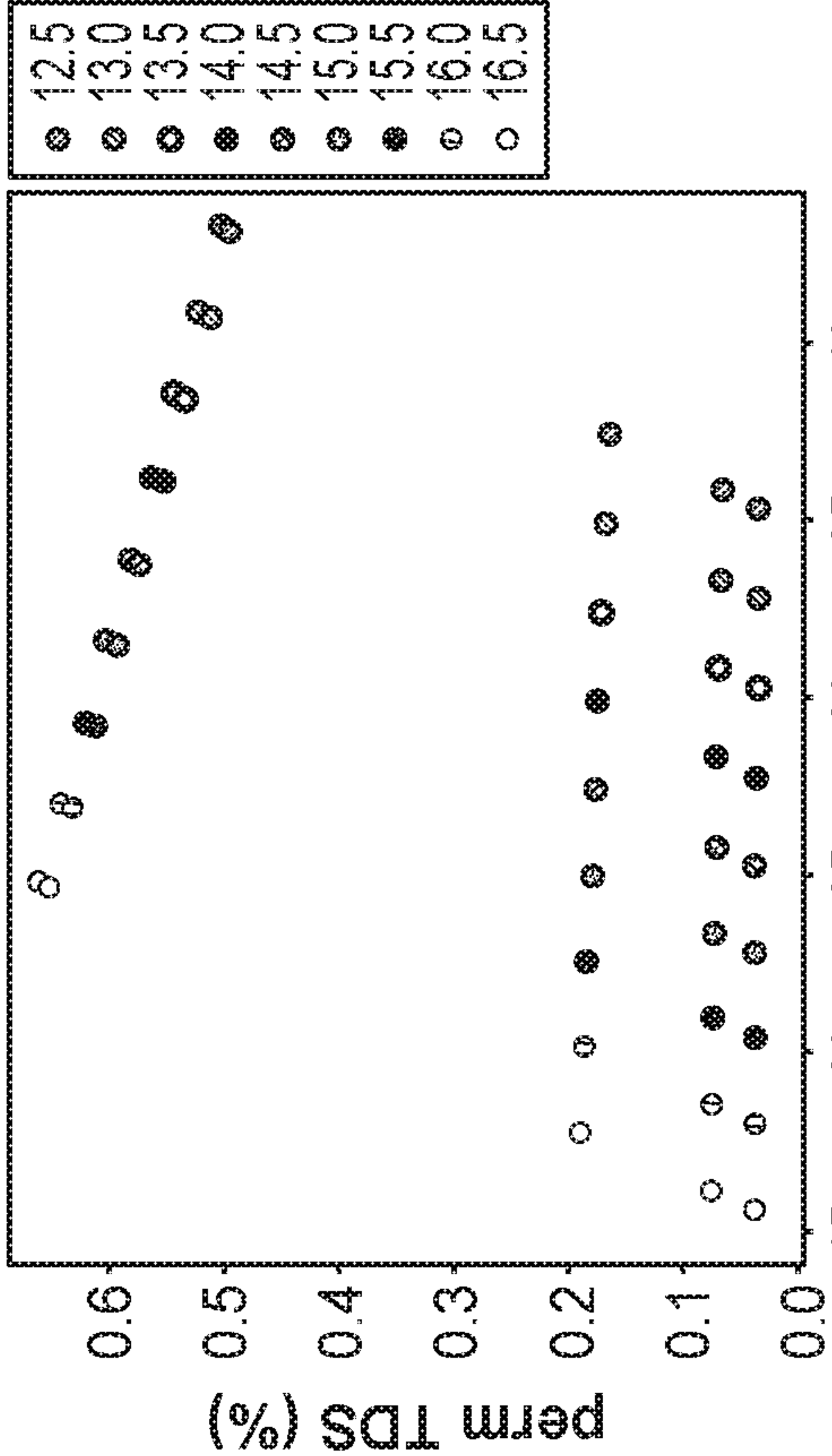


FIG. 7C

For each tDS. Just high Reject = 1.0 500  
first Modules Pressure = 1200

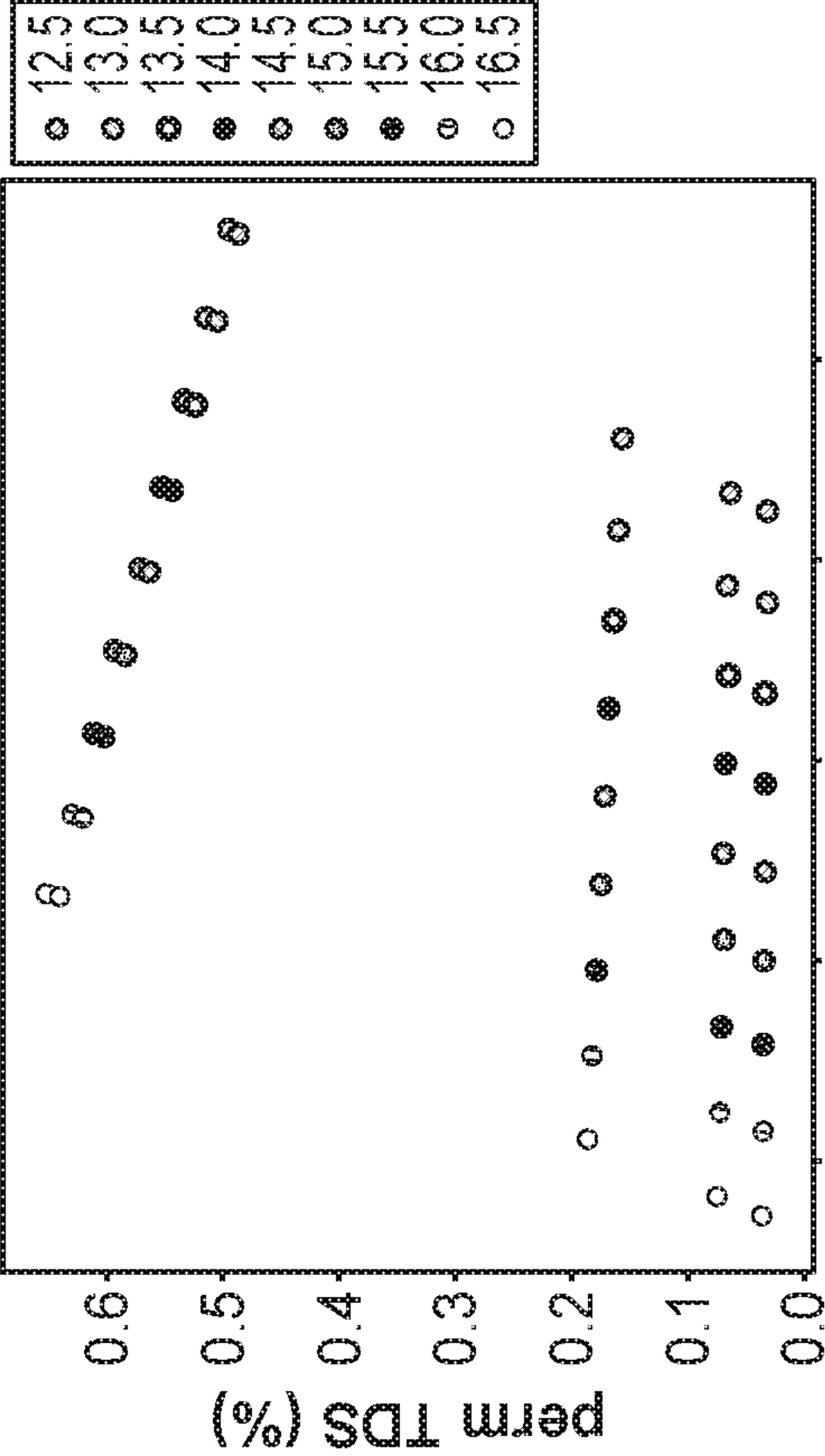


FIG. 7B

For each tDS. Just high Reject = 1.0 1000  
first Modules Pressure = 1200

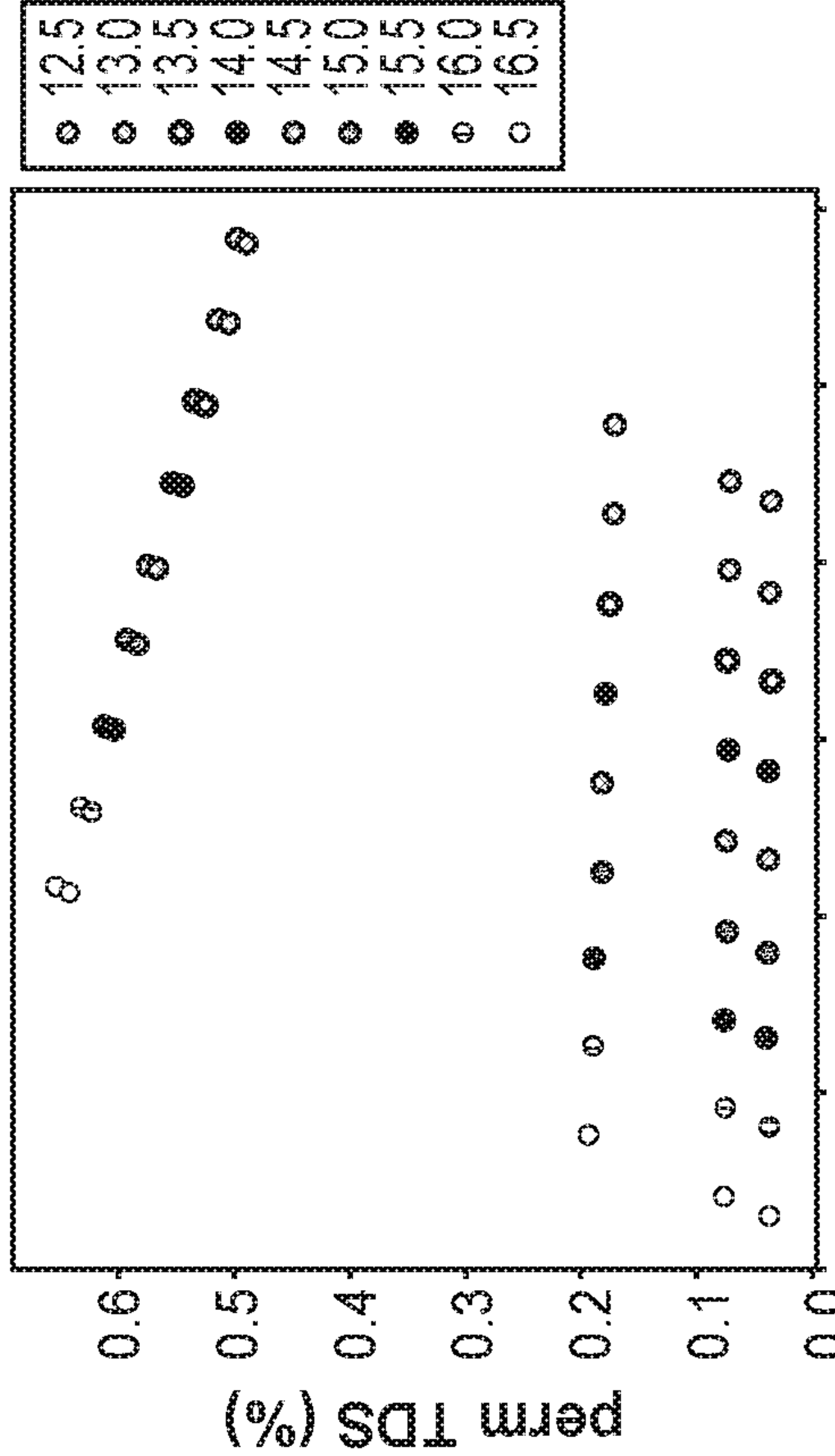
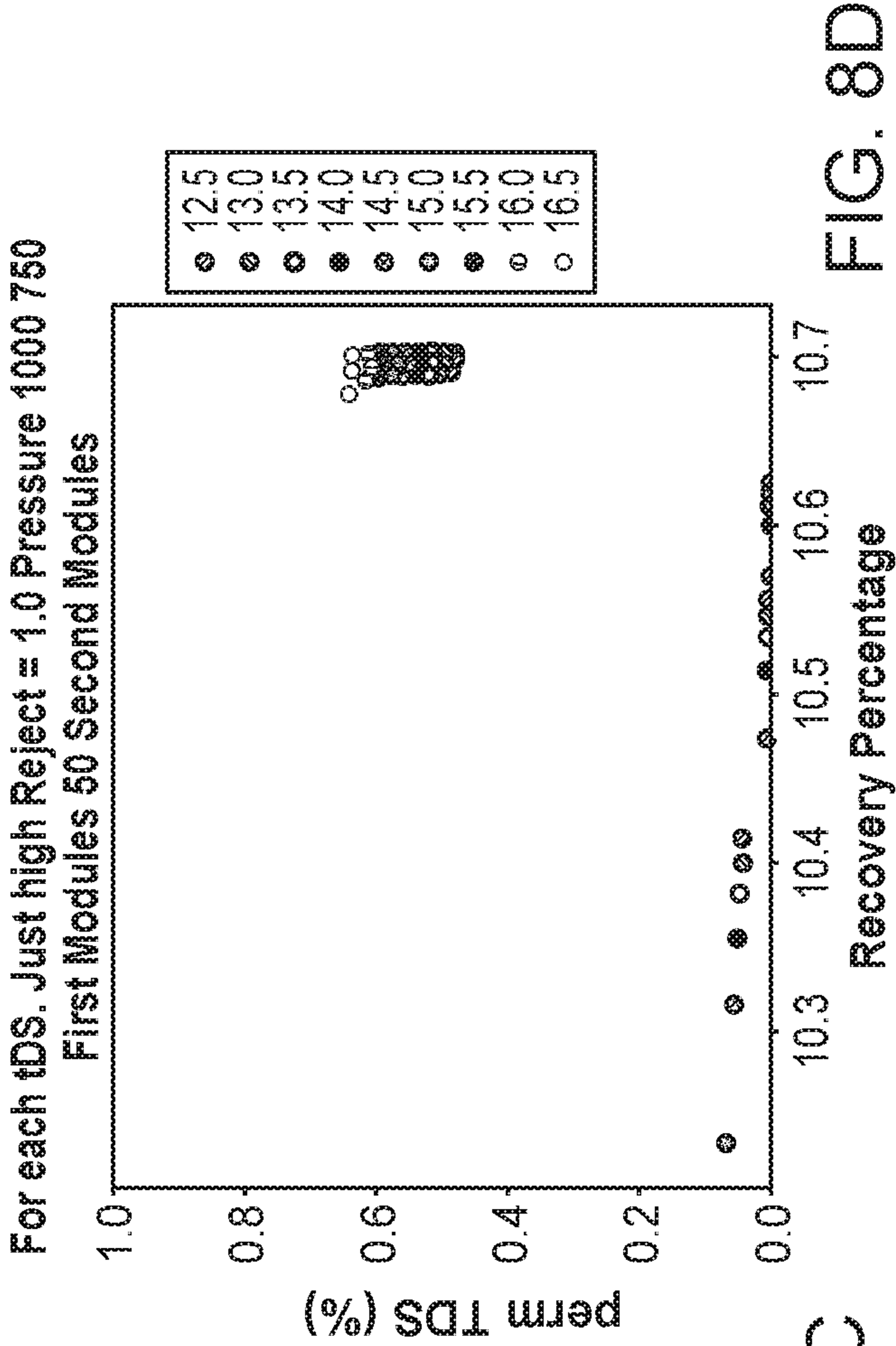
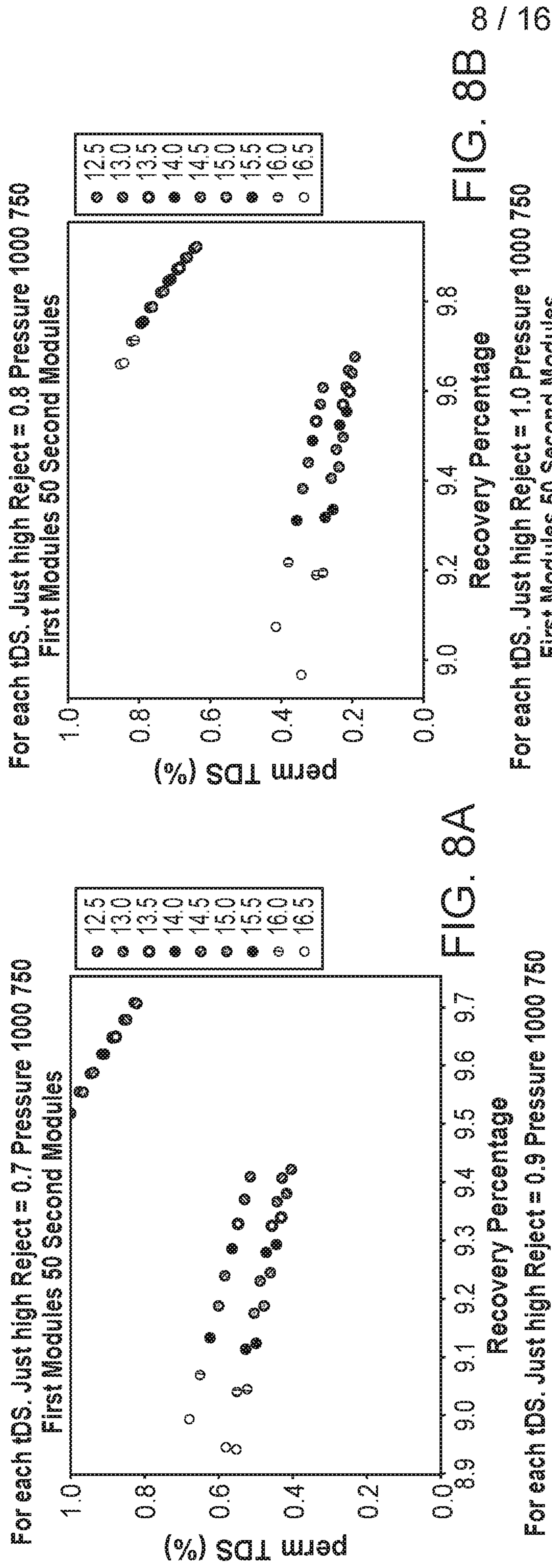
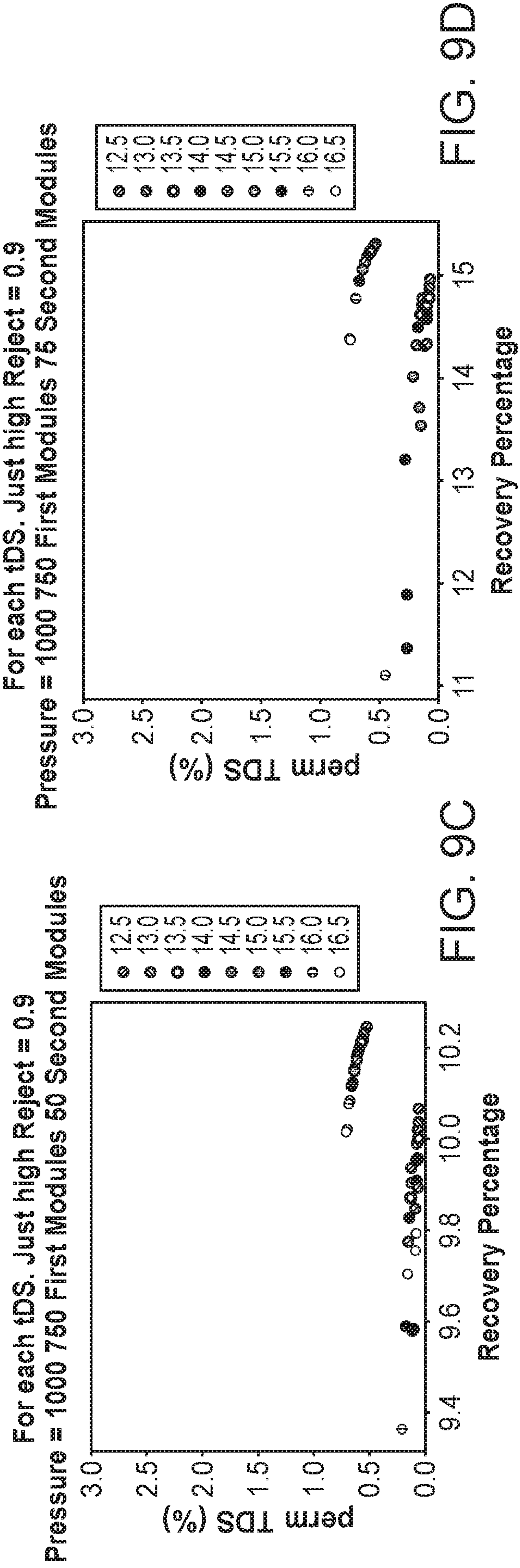
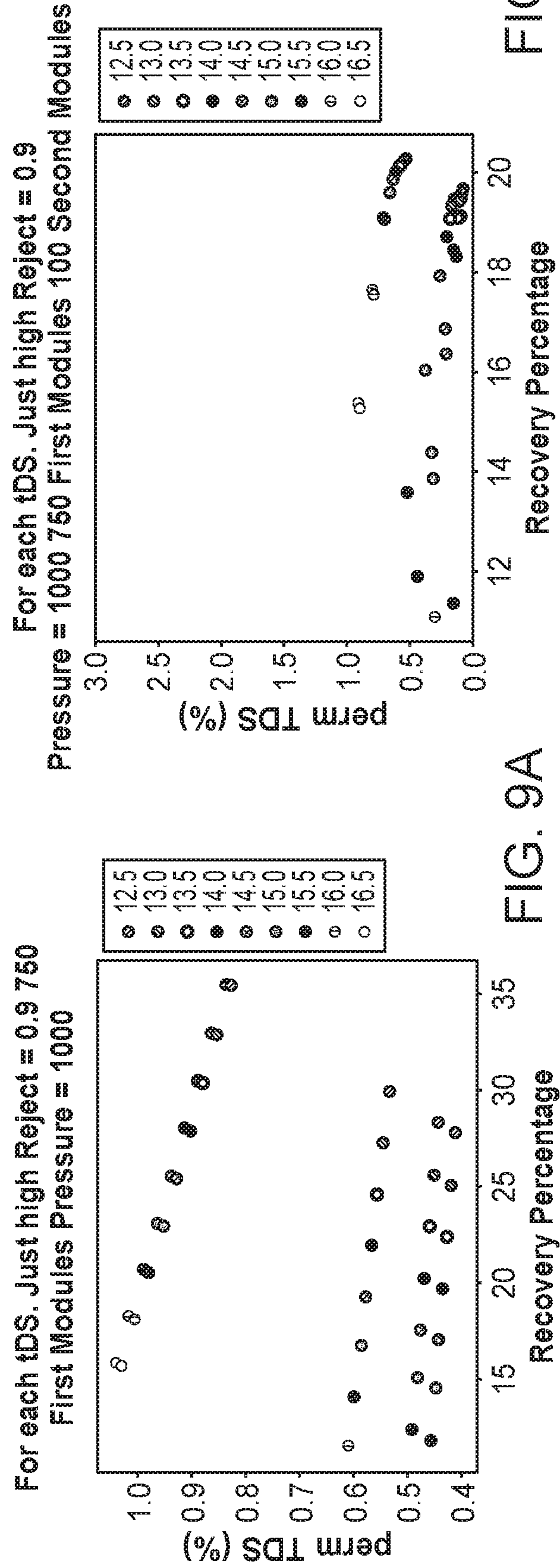


FIG. 7D





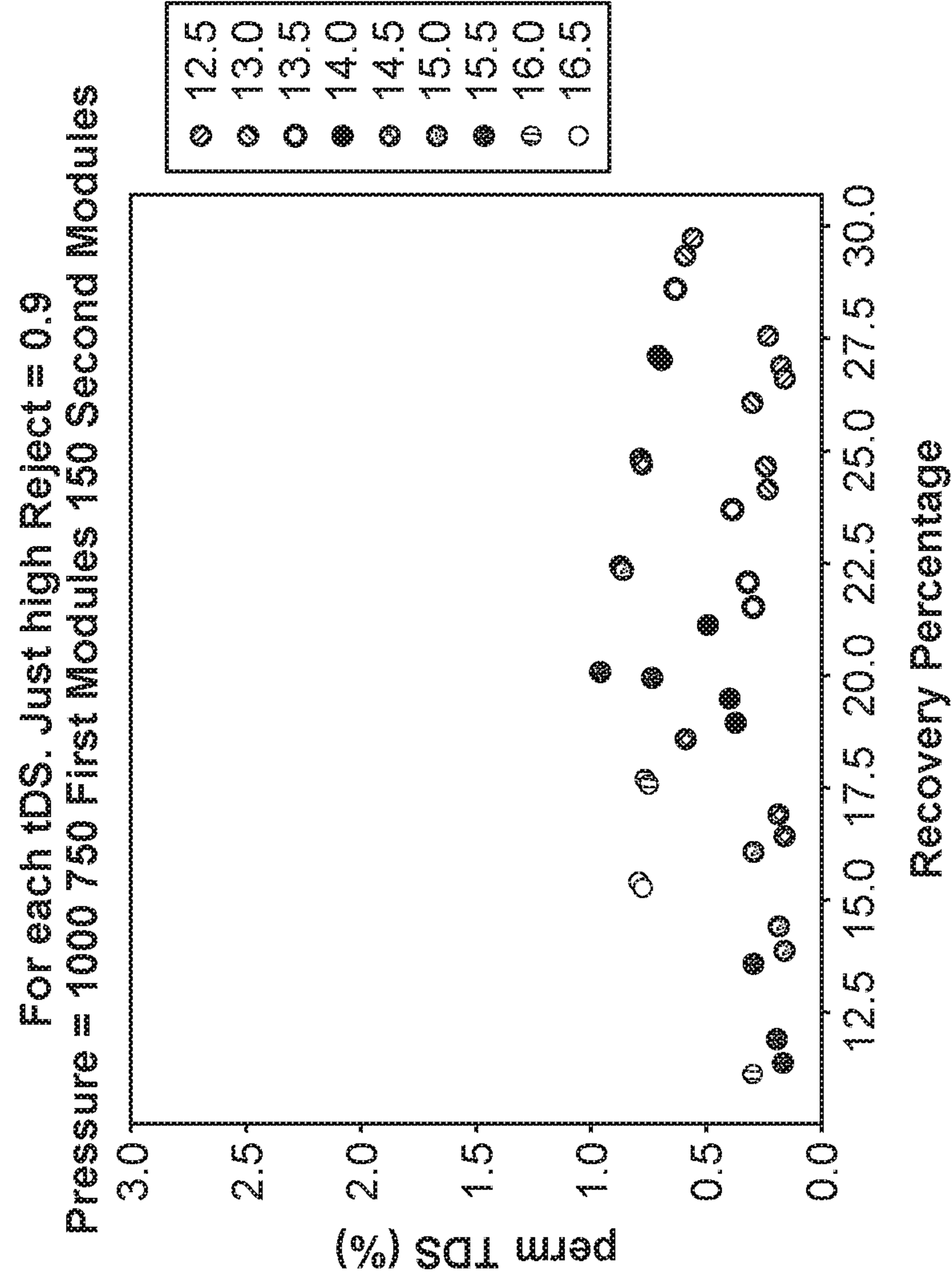


FIG. 9E

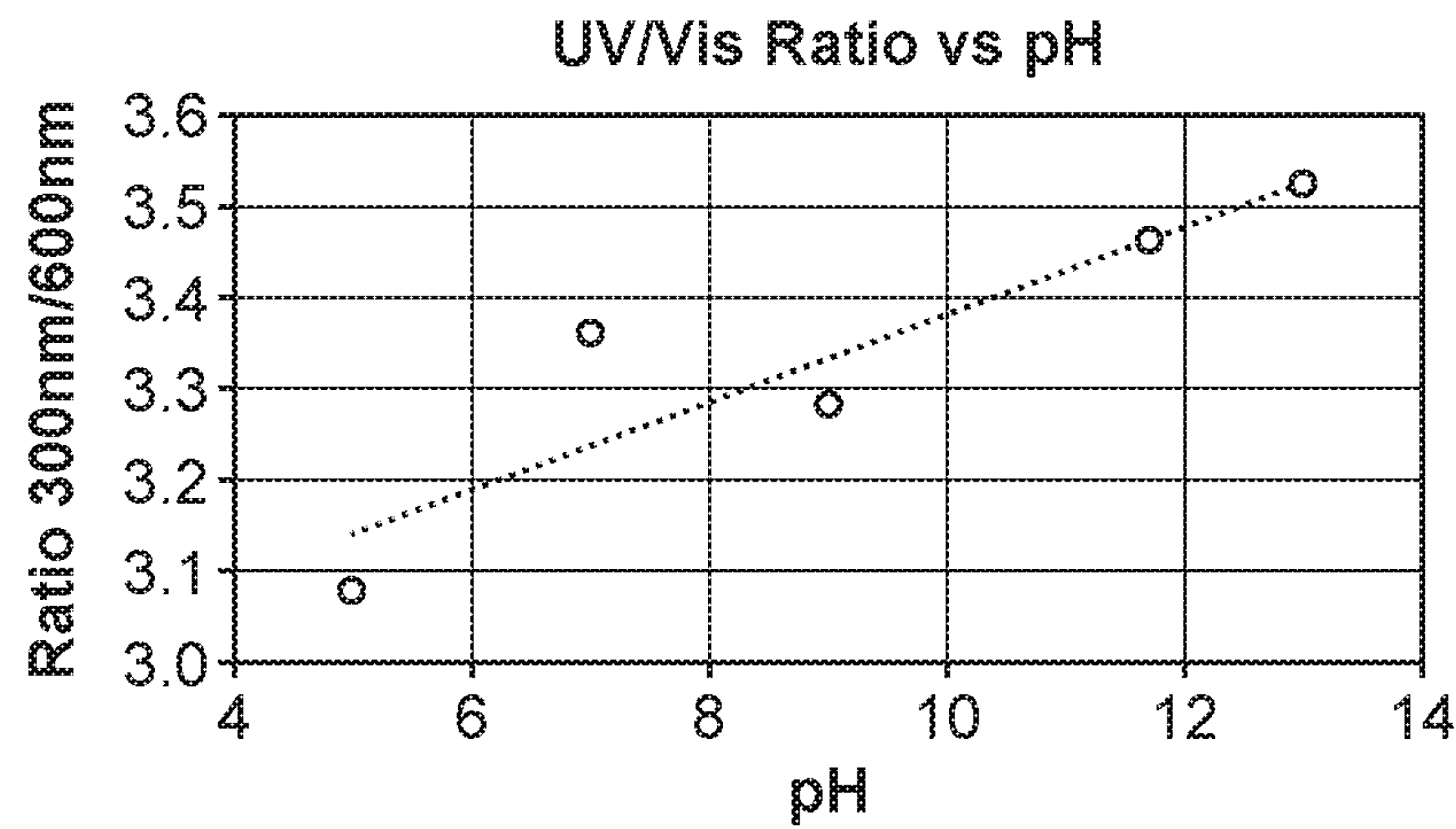


FIG. 10

• Sugar Rejection  
+ Salt Rejection

Lactose and  $\text{MgSO}_4$  rejection (%) for membranes functionalized at different pH and concentration of propionamide (M).

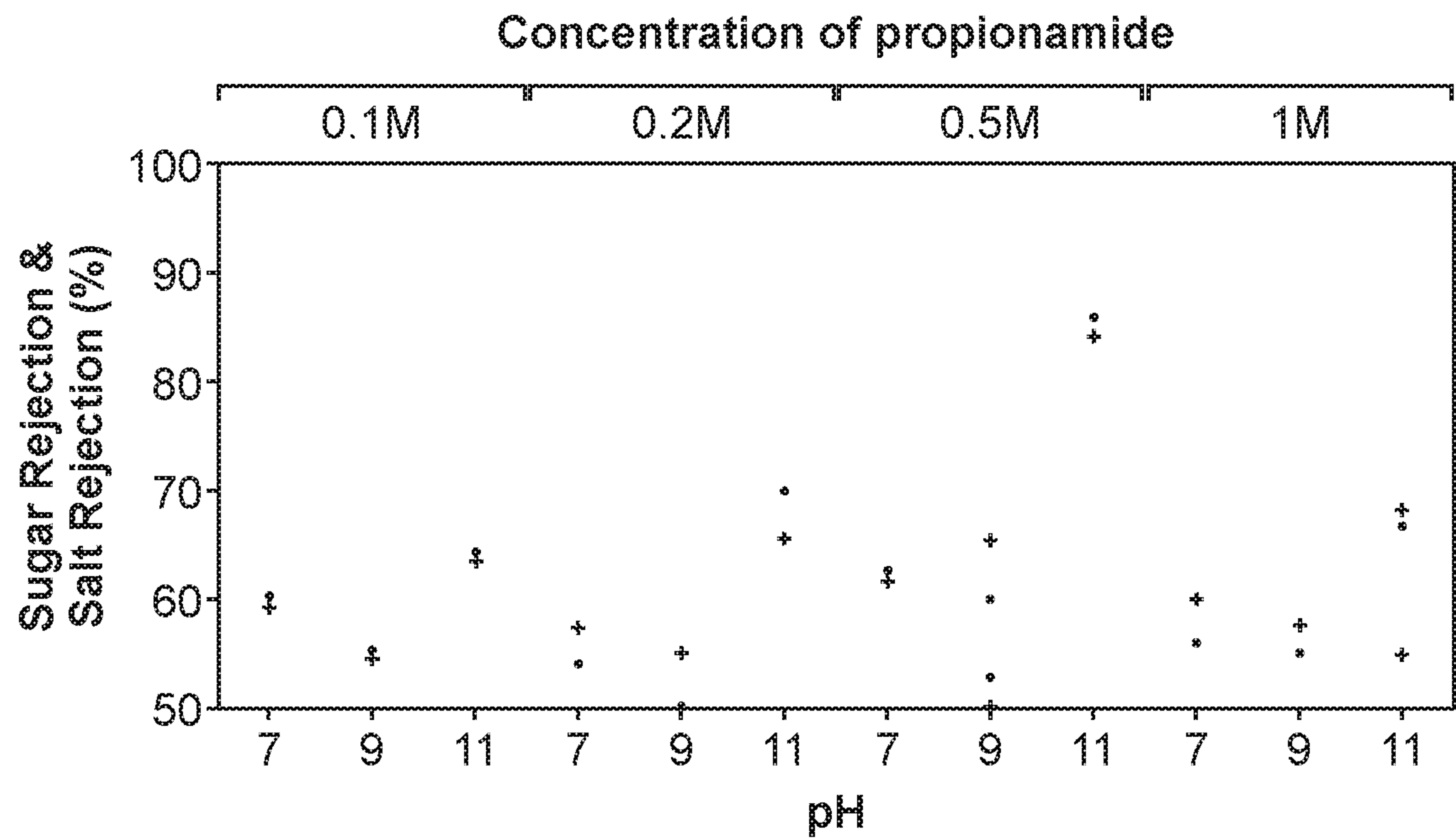


FIG. 11

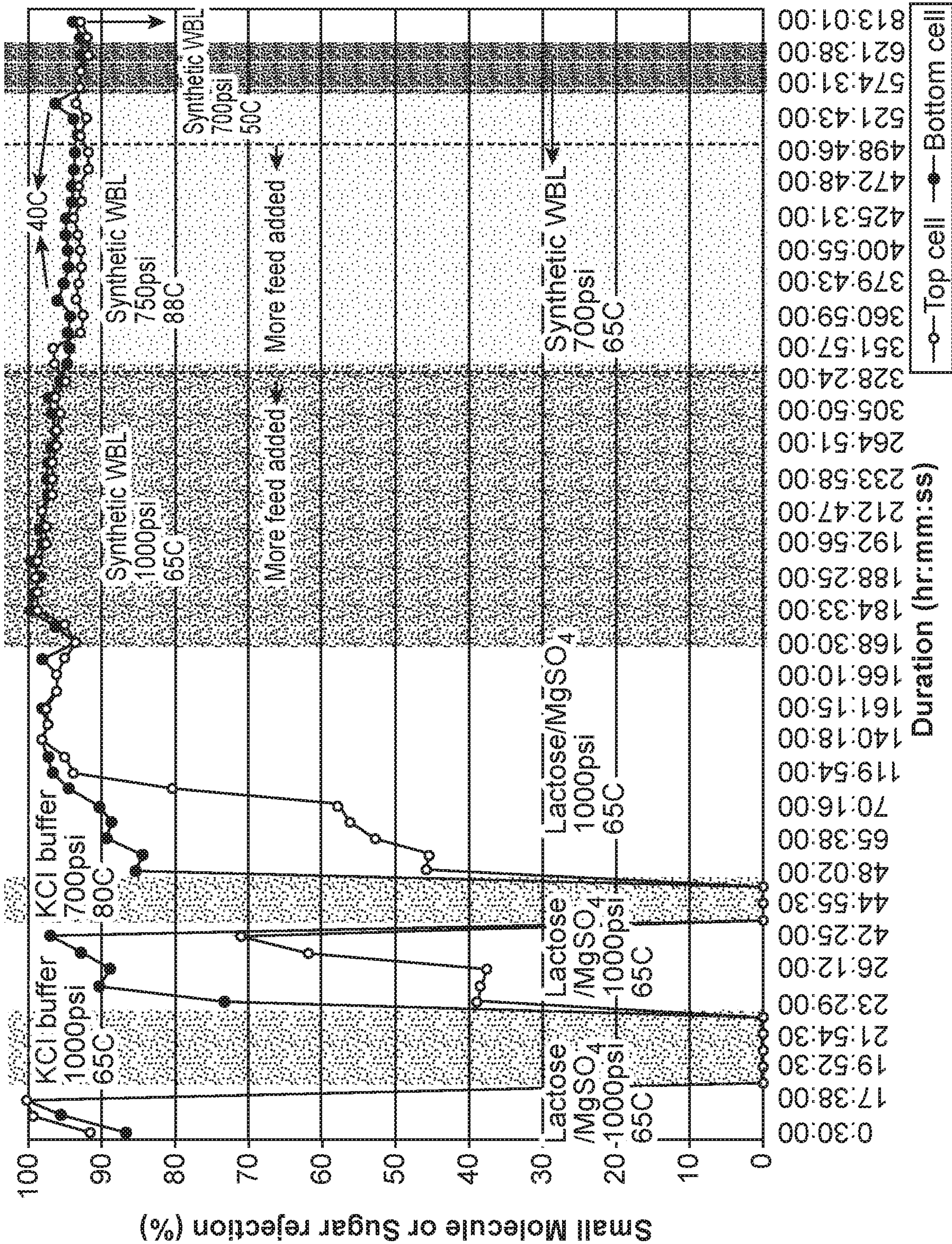


FIG. 12

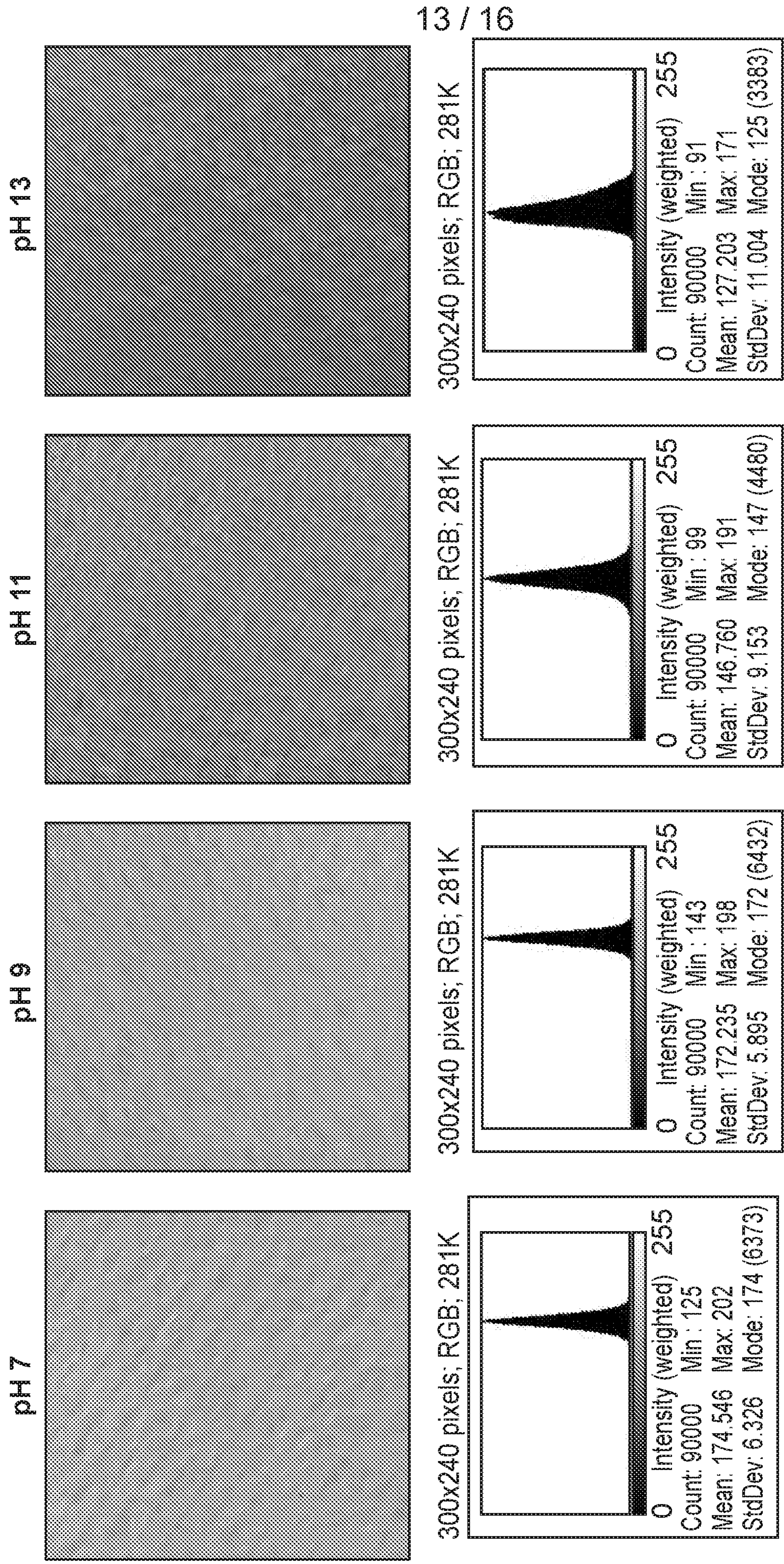


FIG. 13A

FIG. 13B

FIG. 13C

FIG. 13D

Temperature + pH Exposure  
pH 11.5, 80 °C

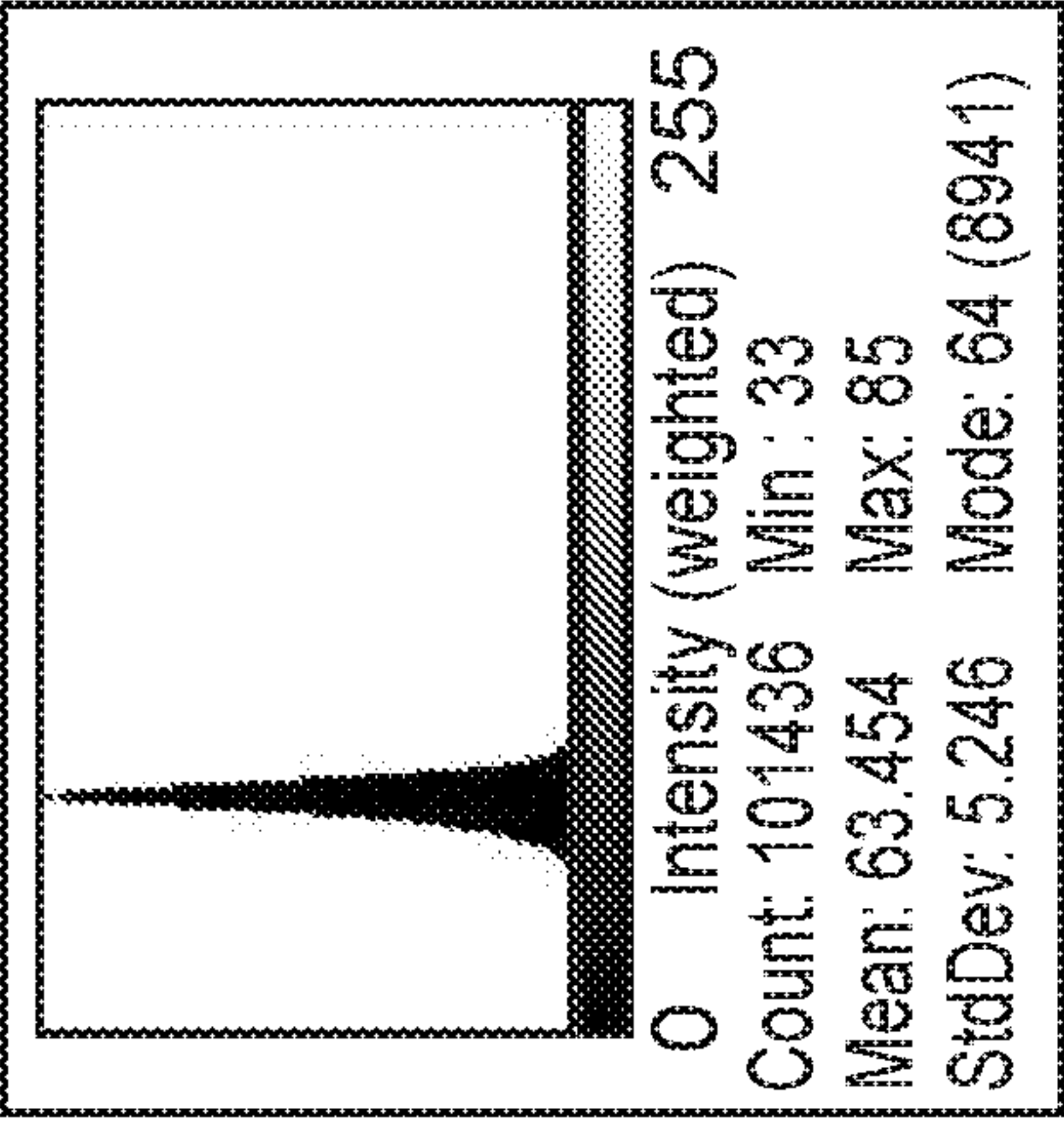
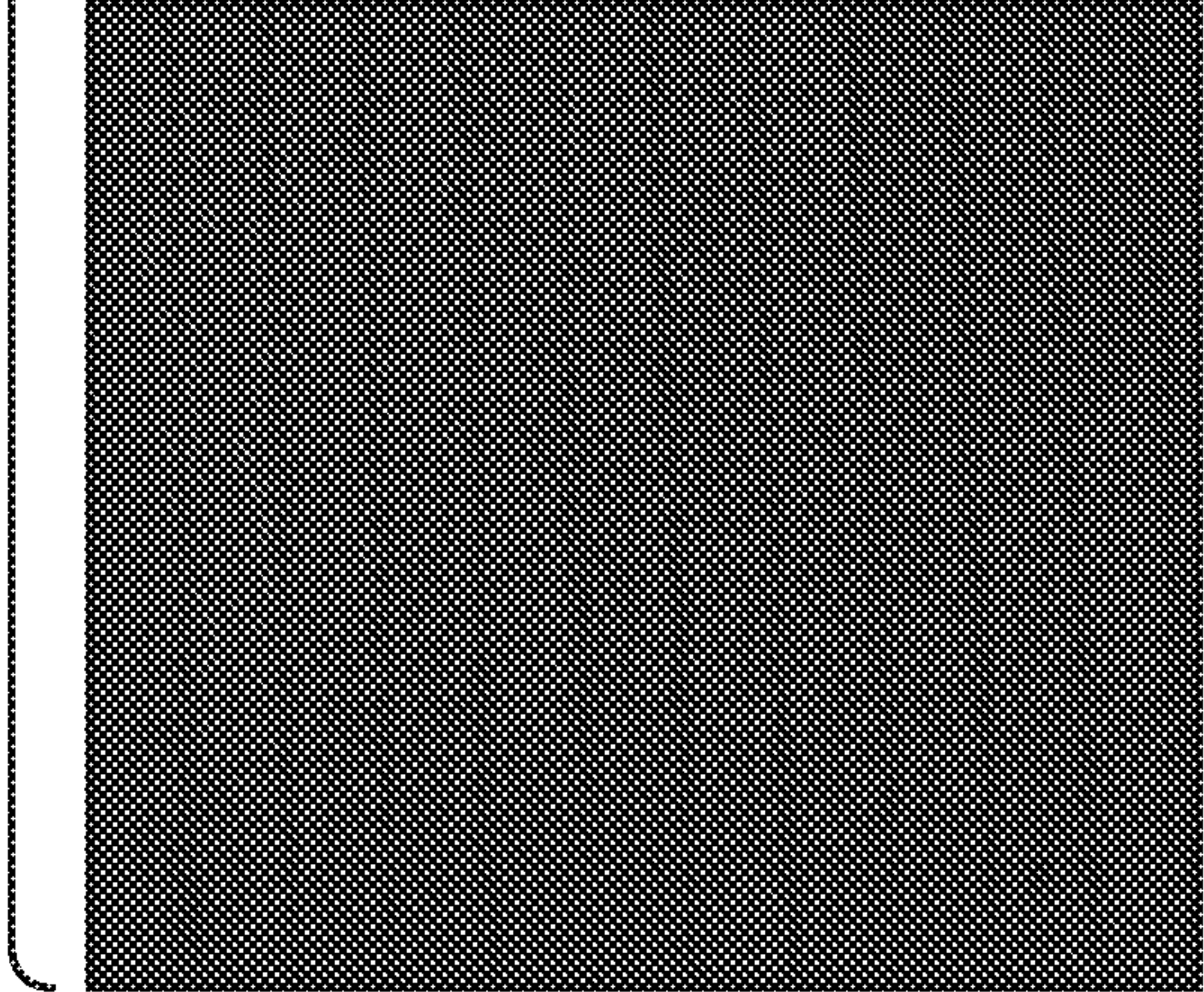


FIG. 14A

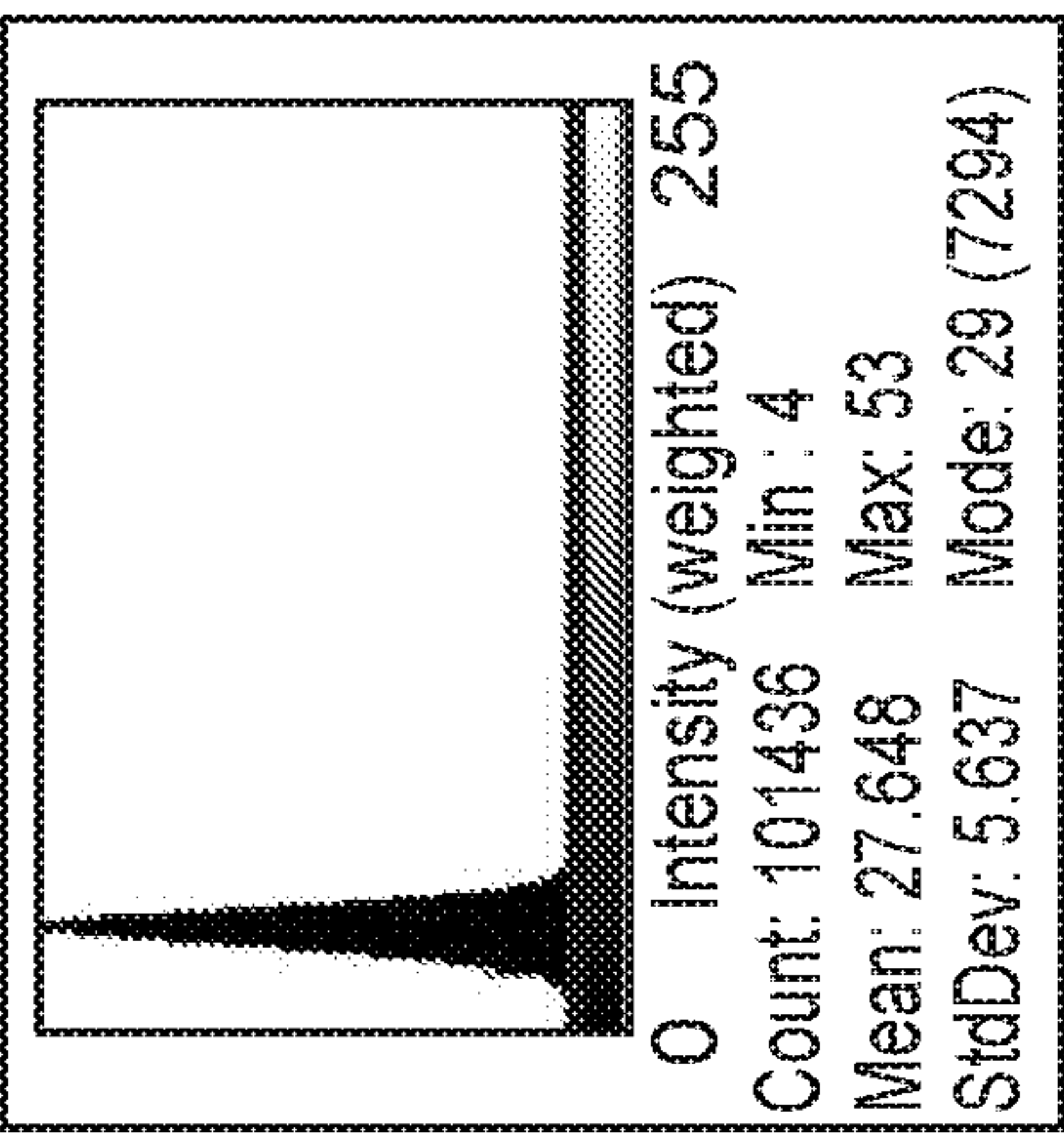
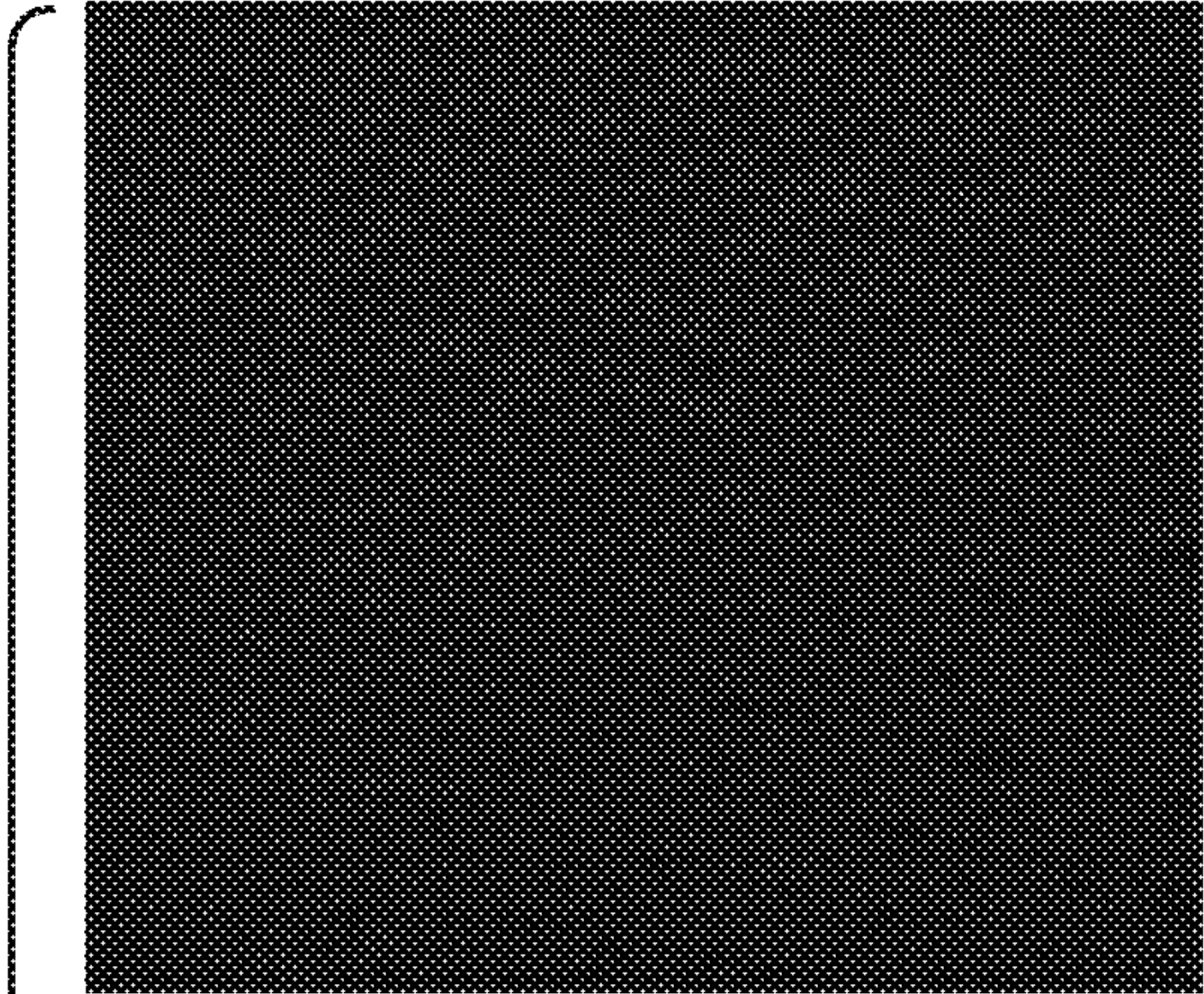


FIG. 14B

Temperature Exposure  
50 °C

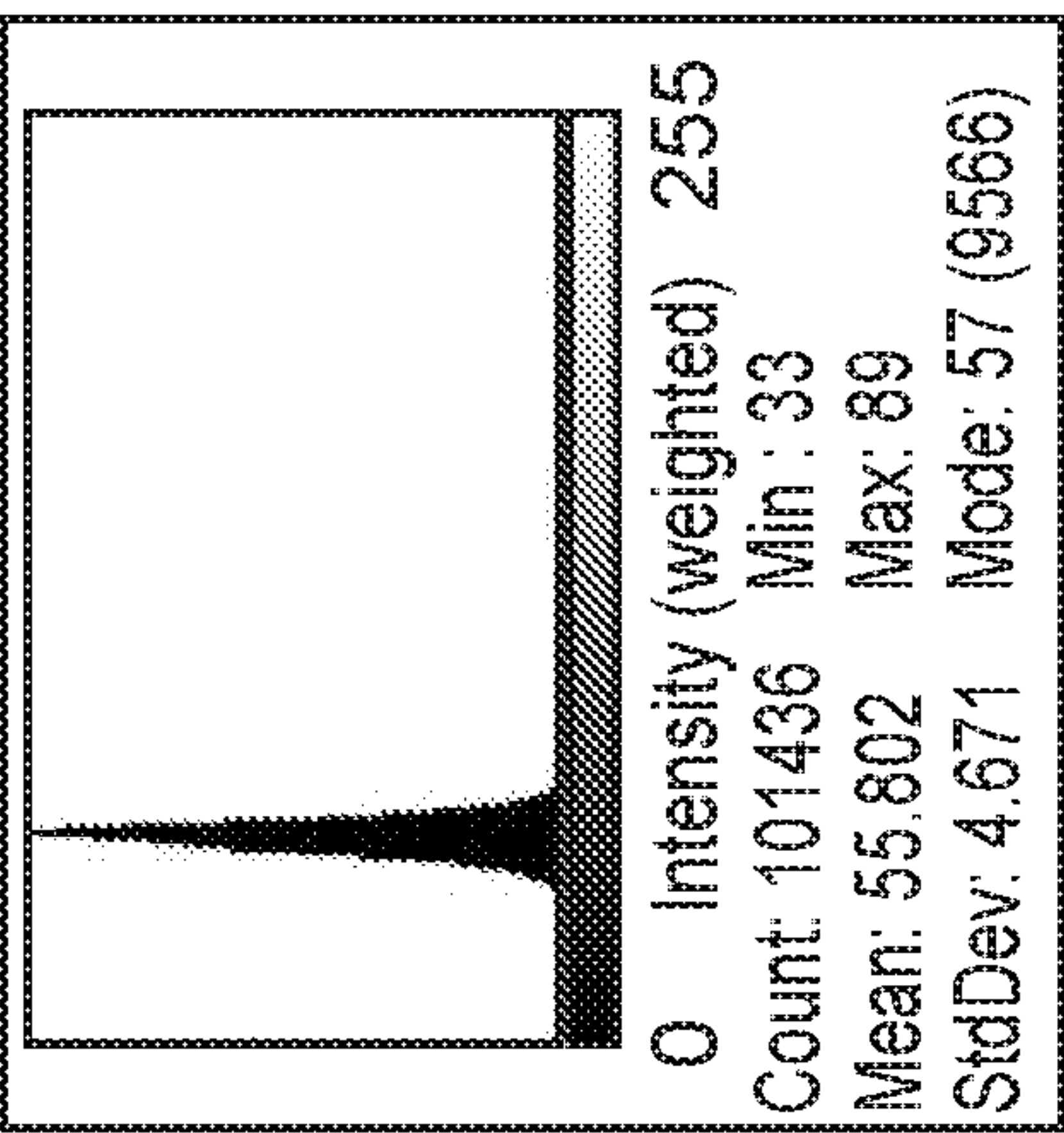
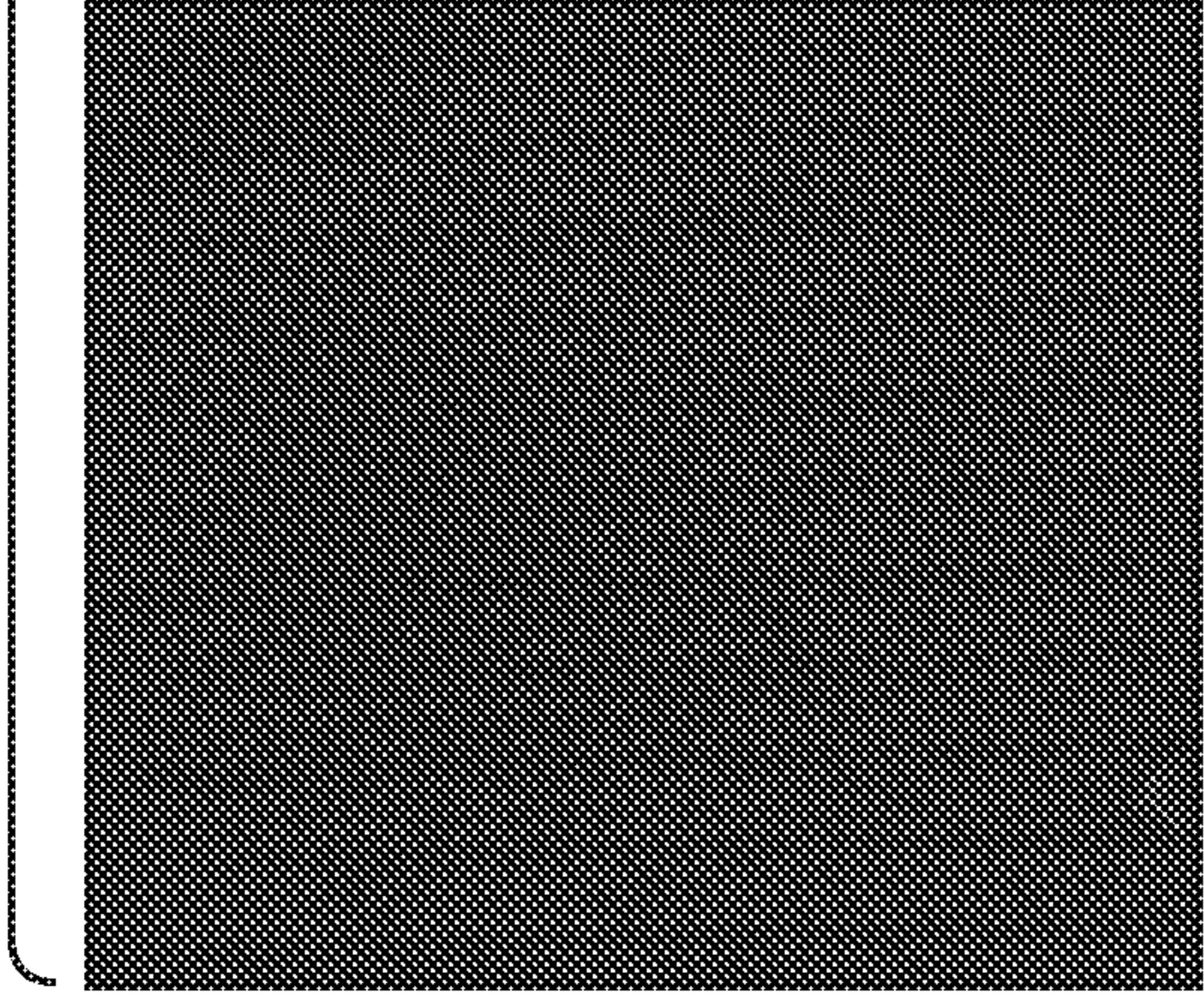


FIG. 14C

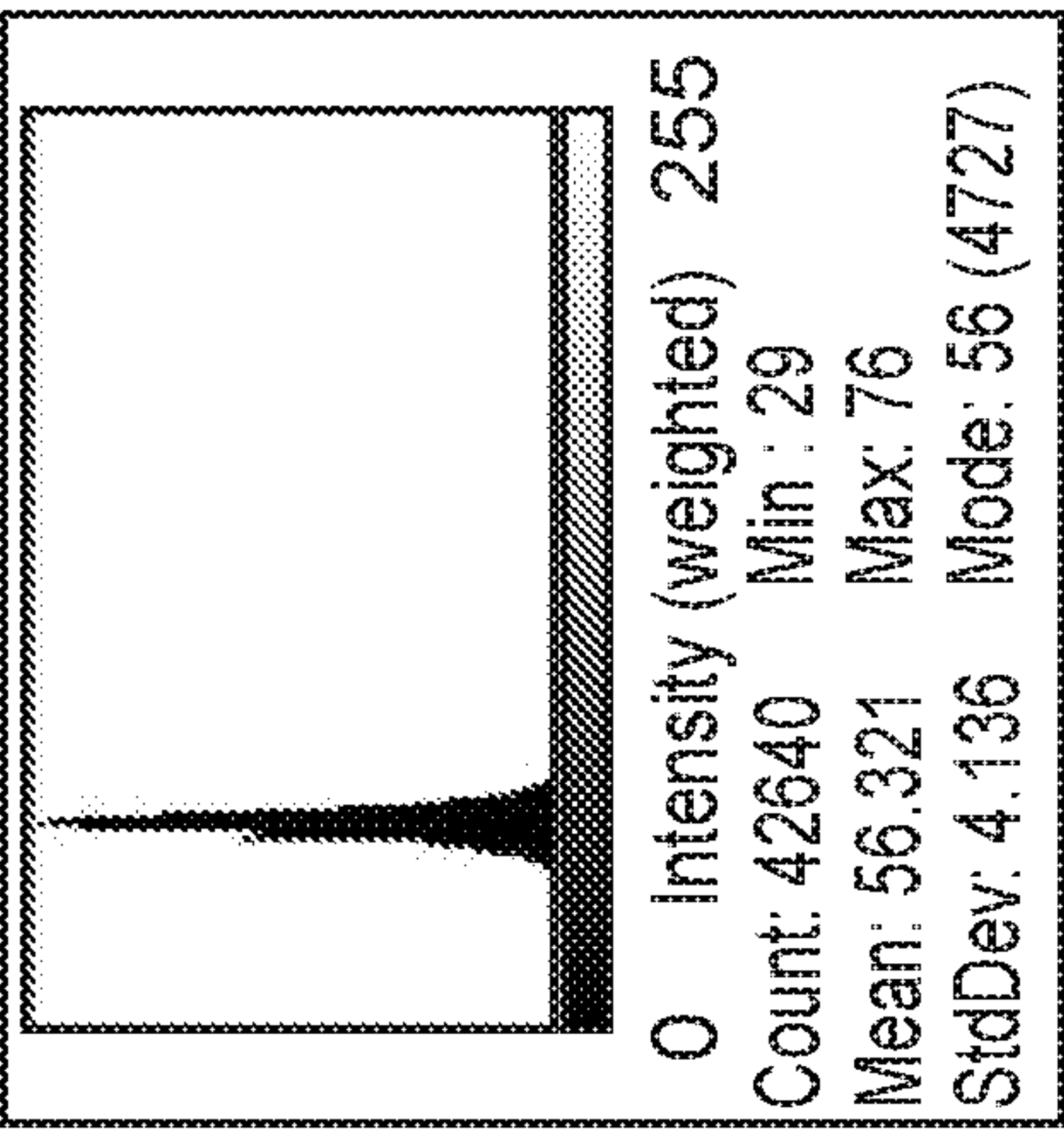
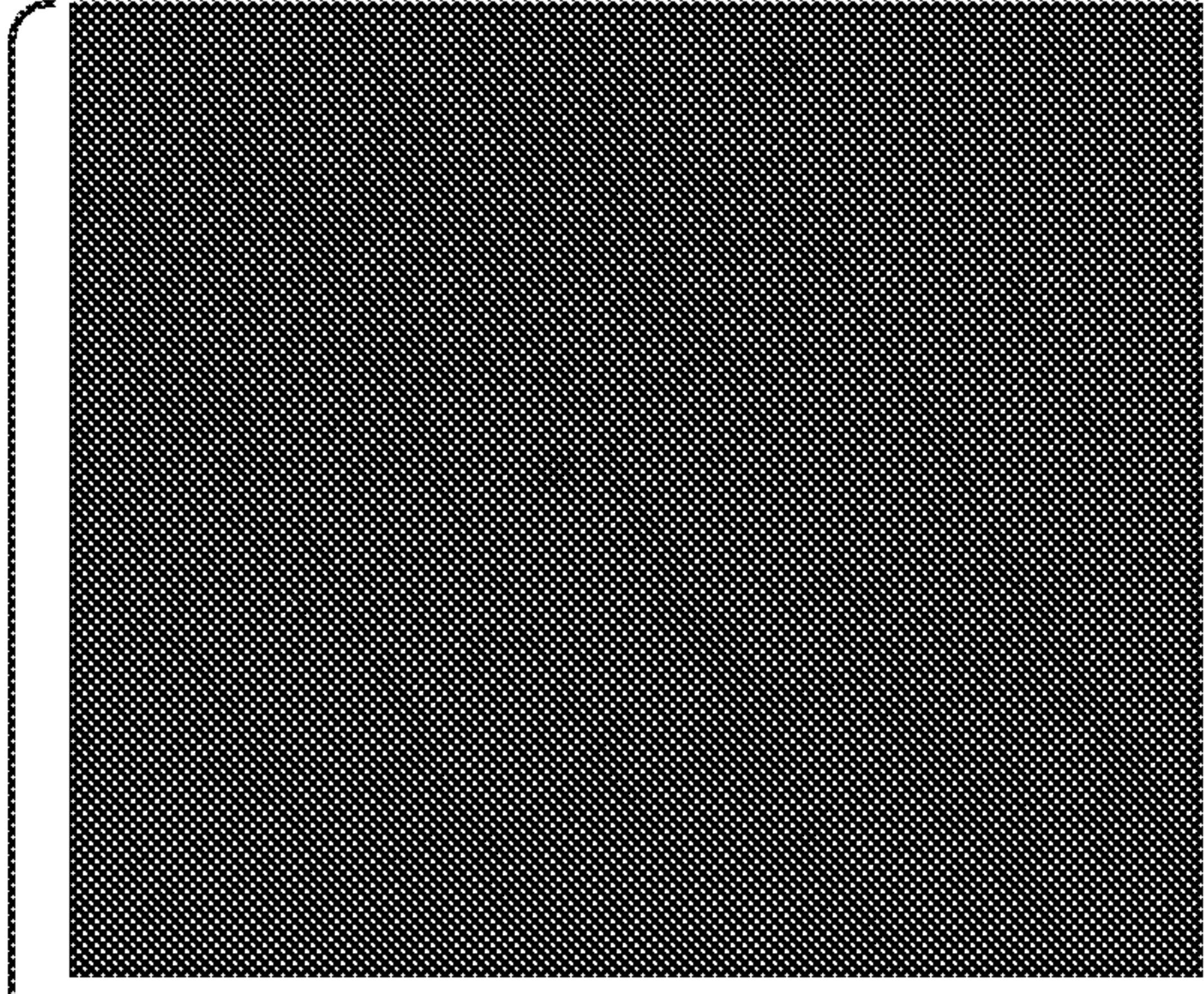


FIG. 14D

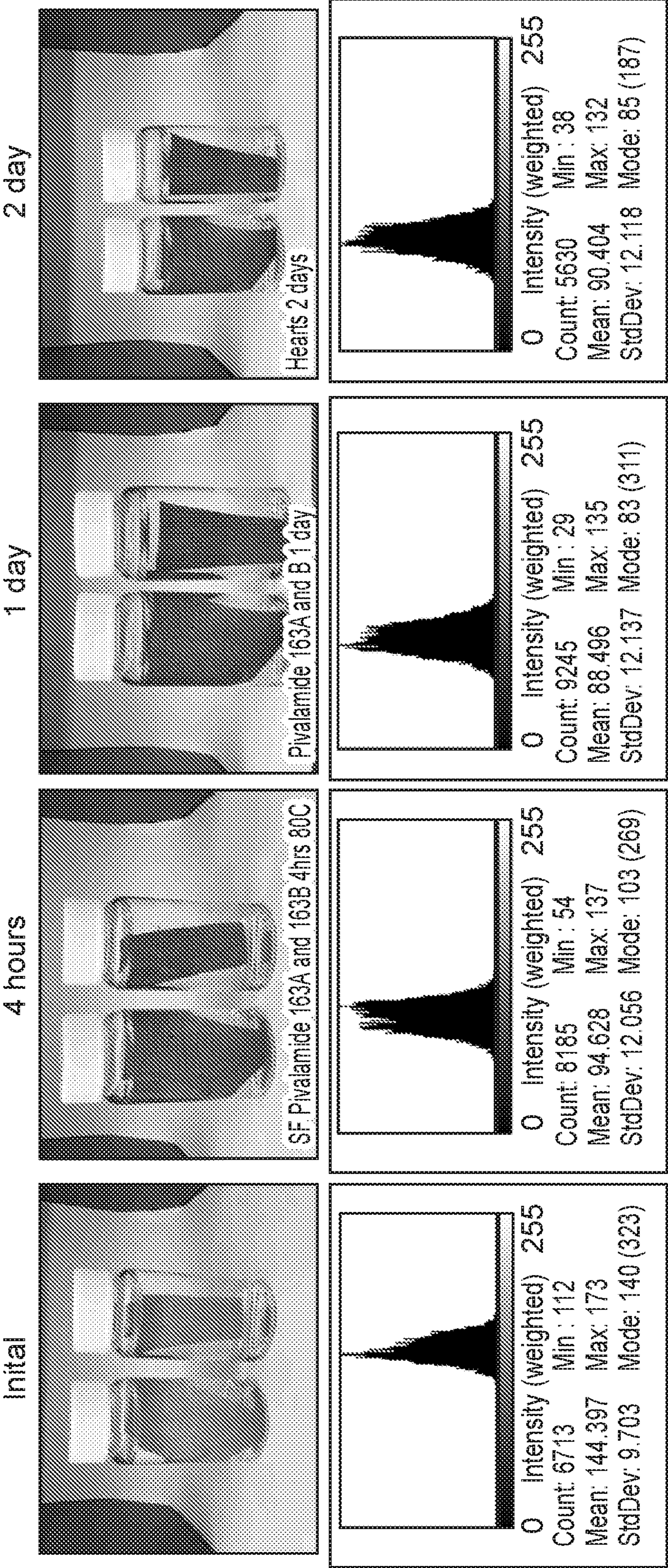


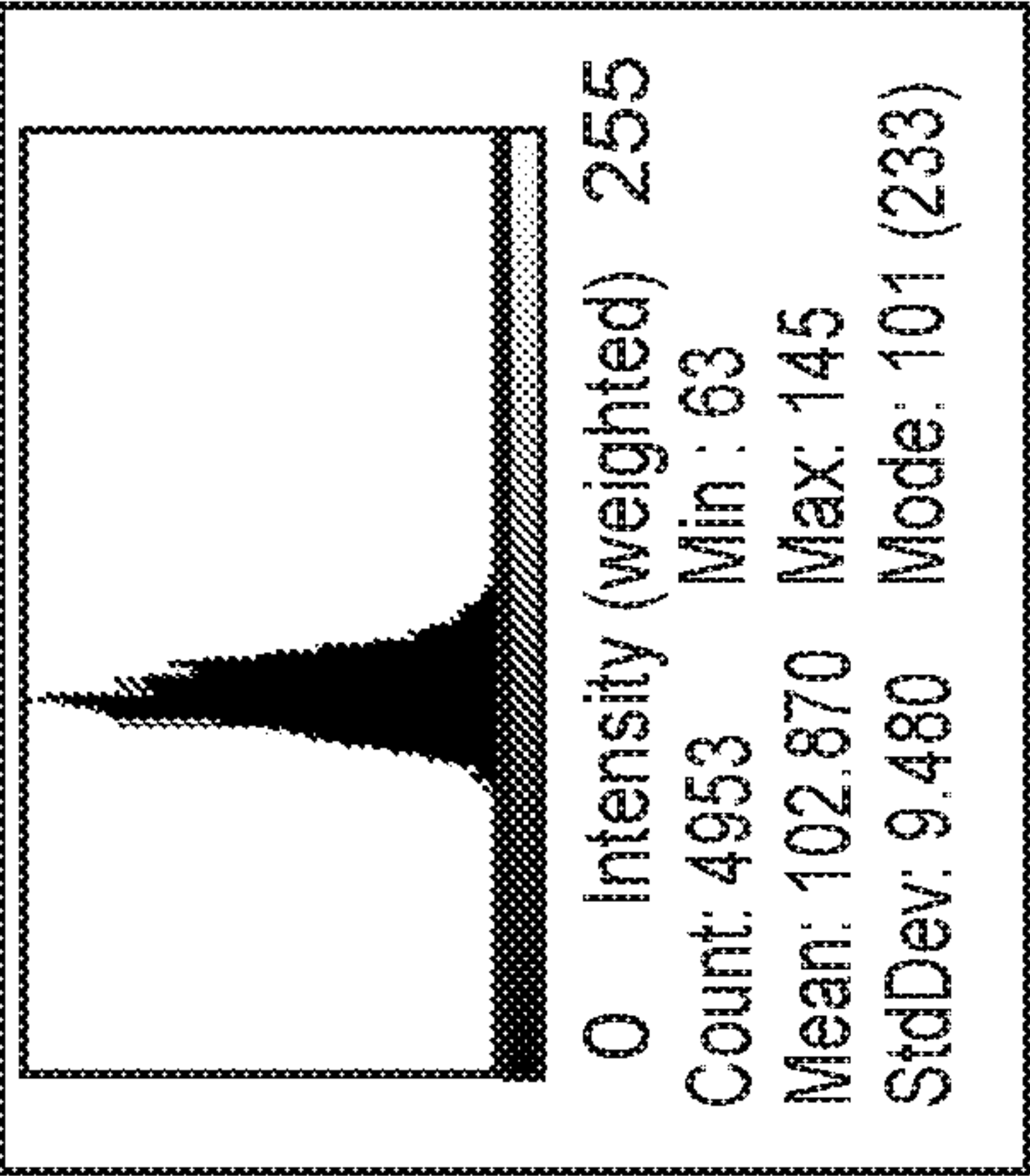
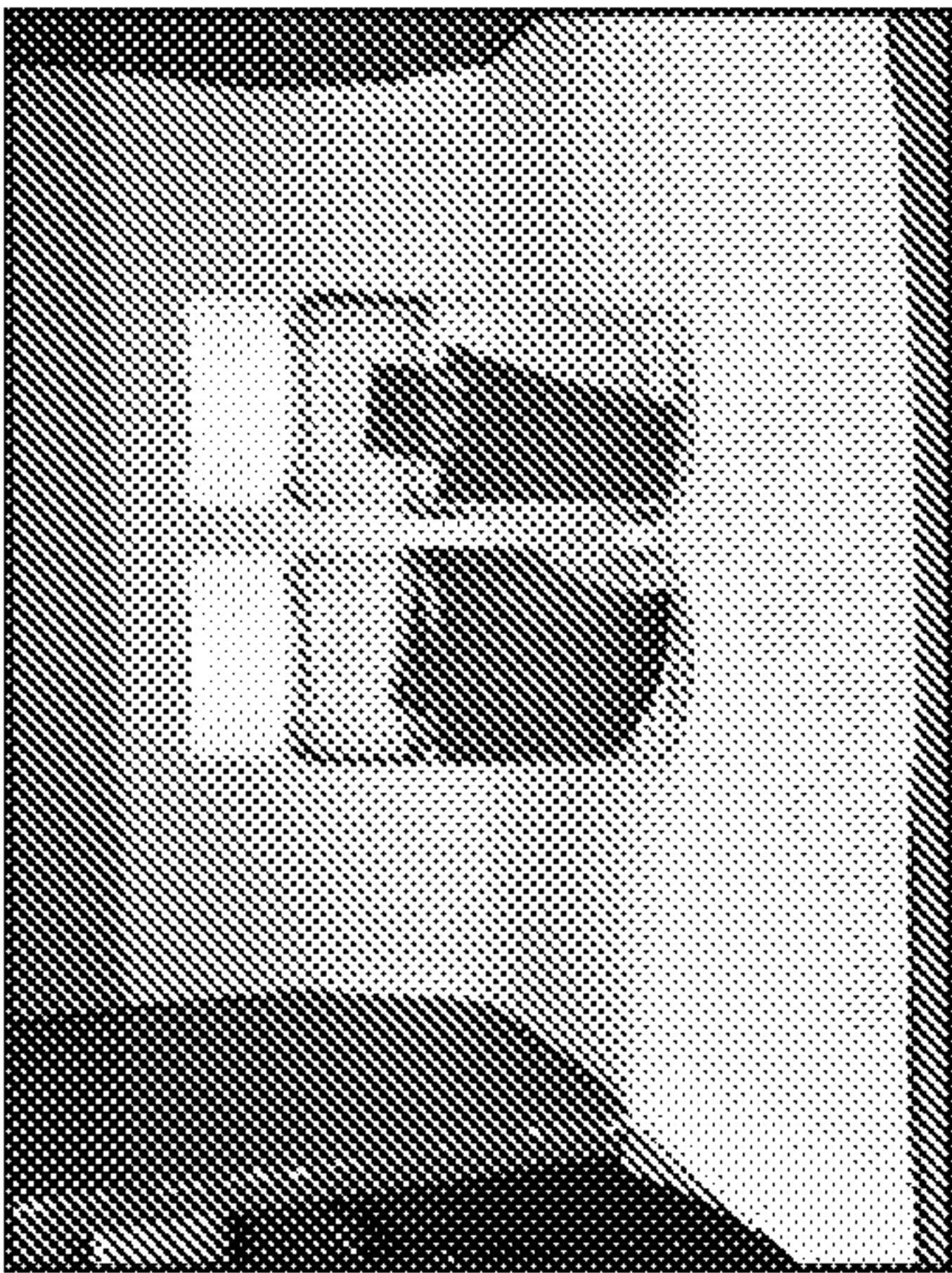
FIG. 15A

FIG. 15B

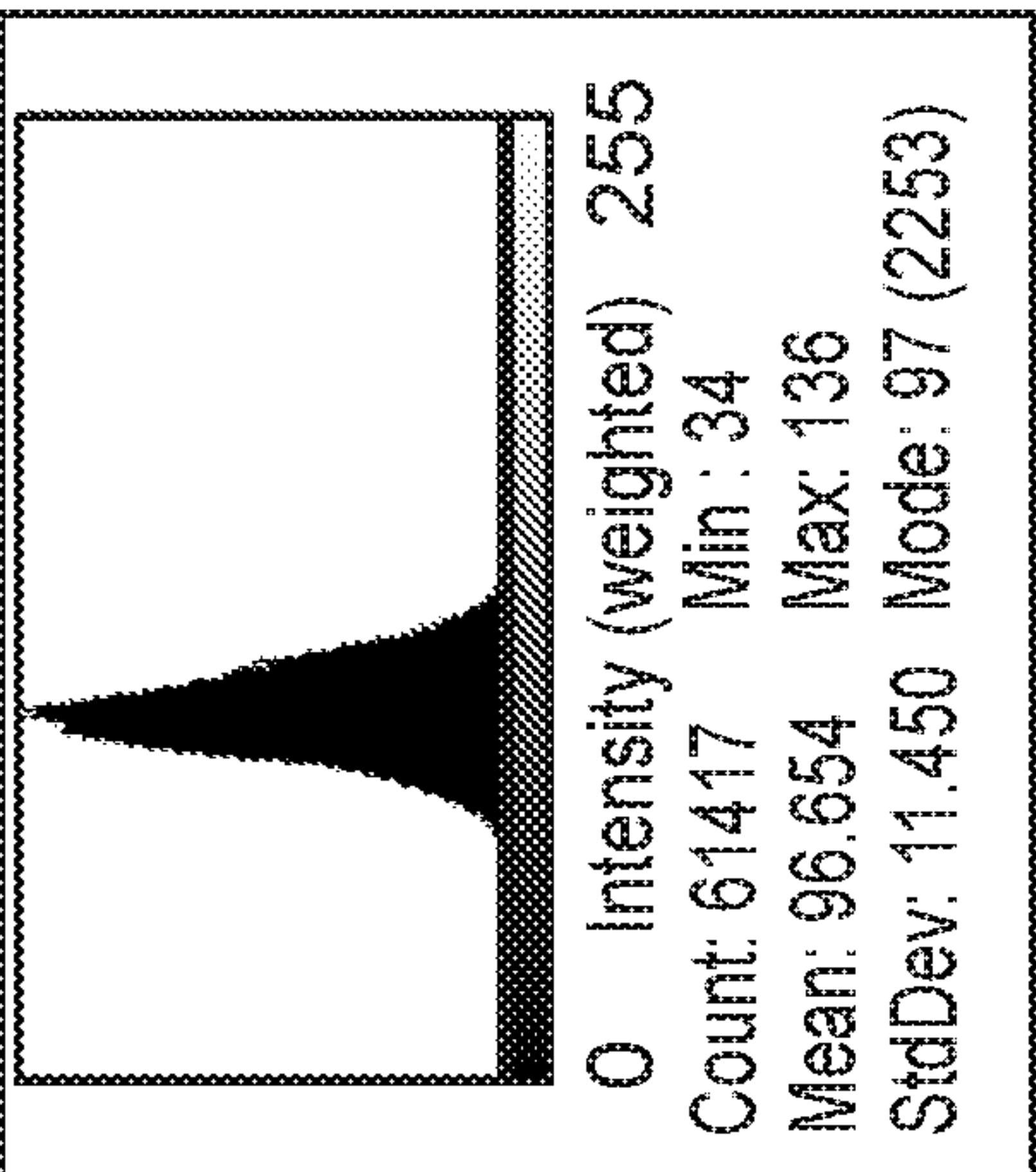
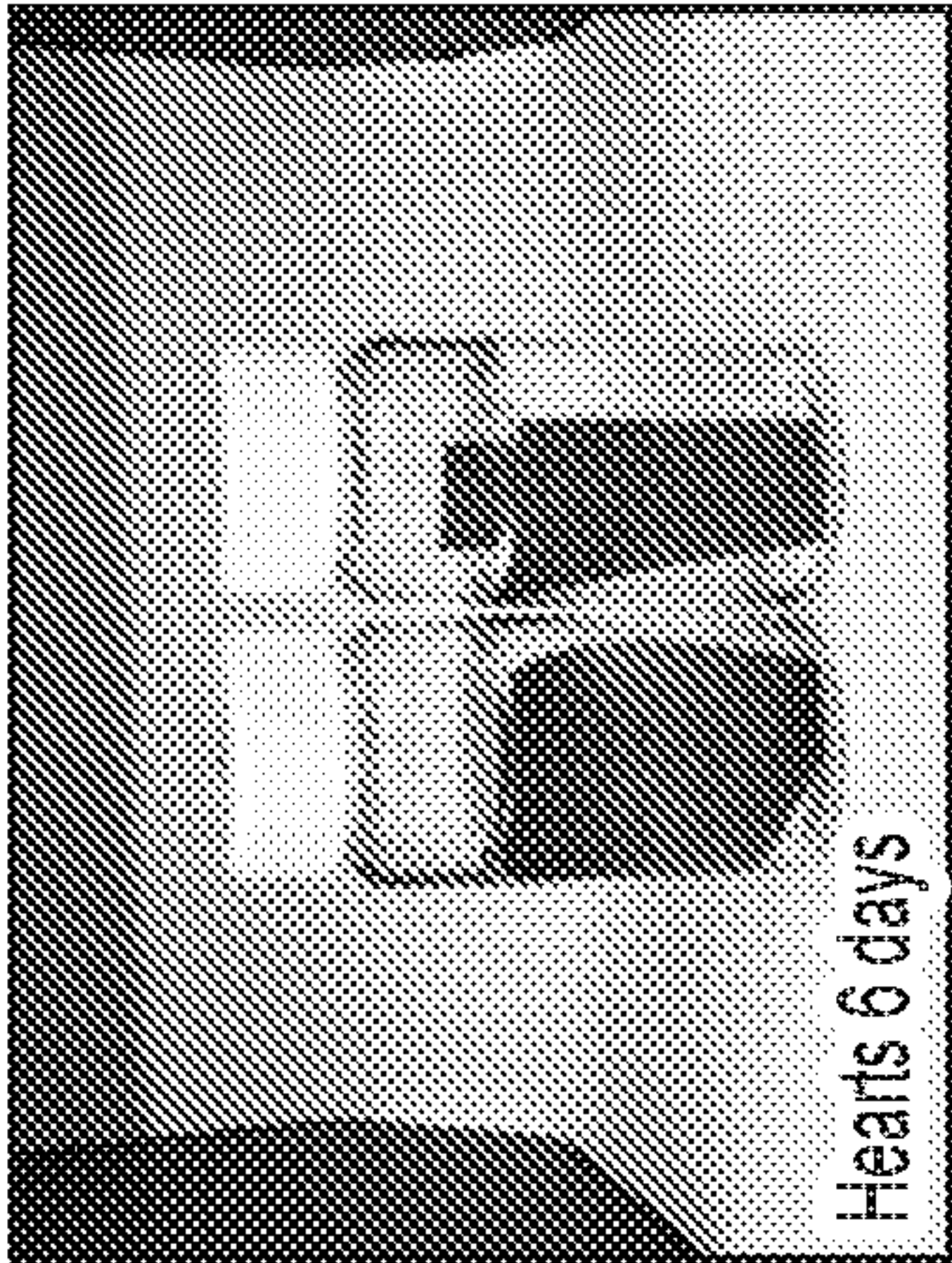
FIG. 15C

FIG. 15D

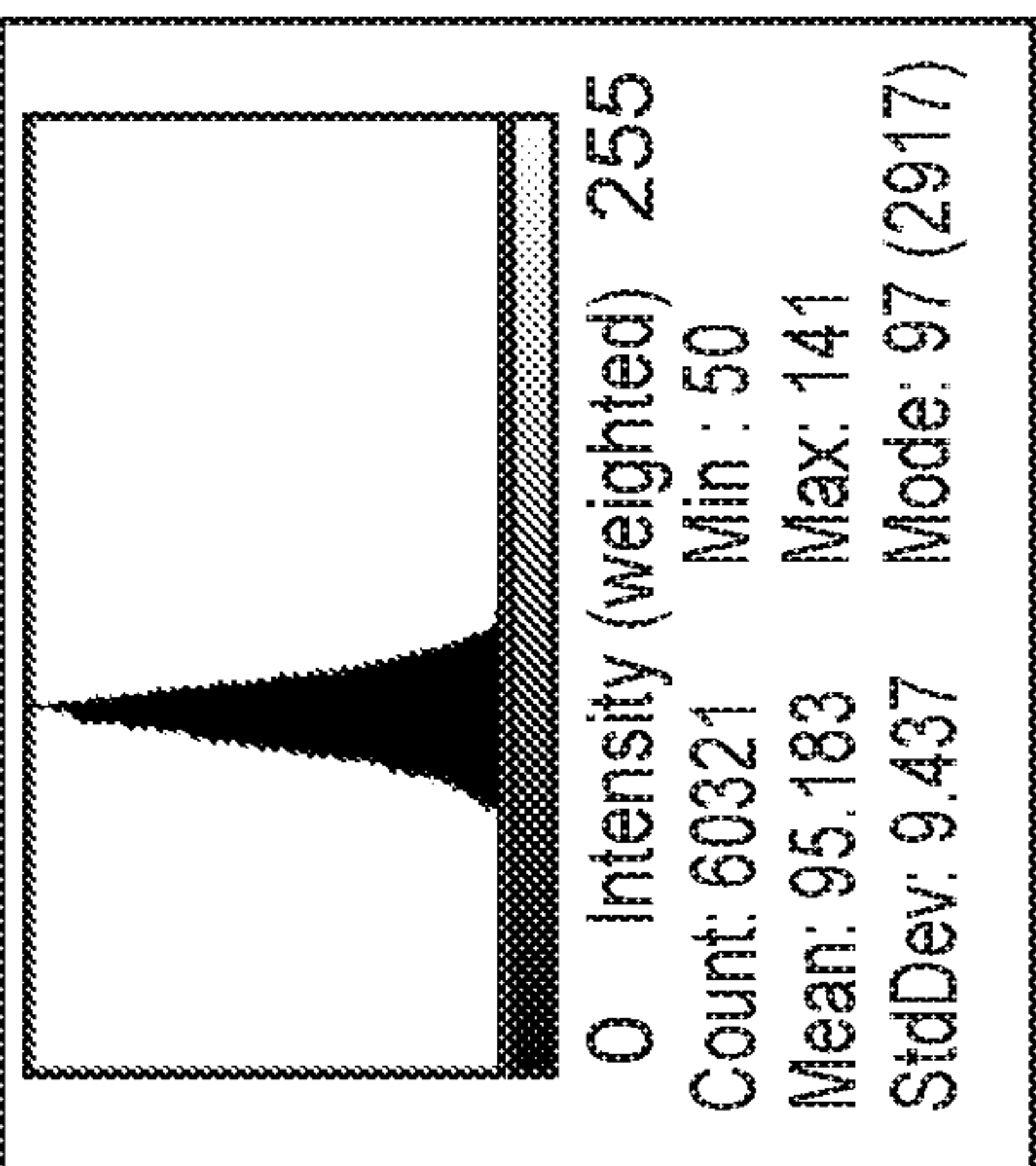
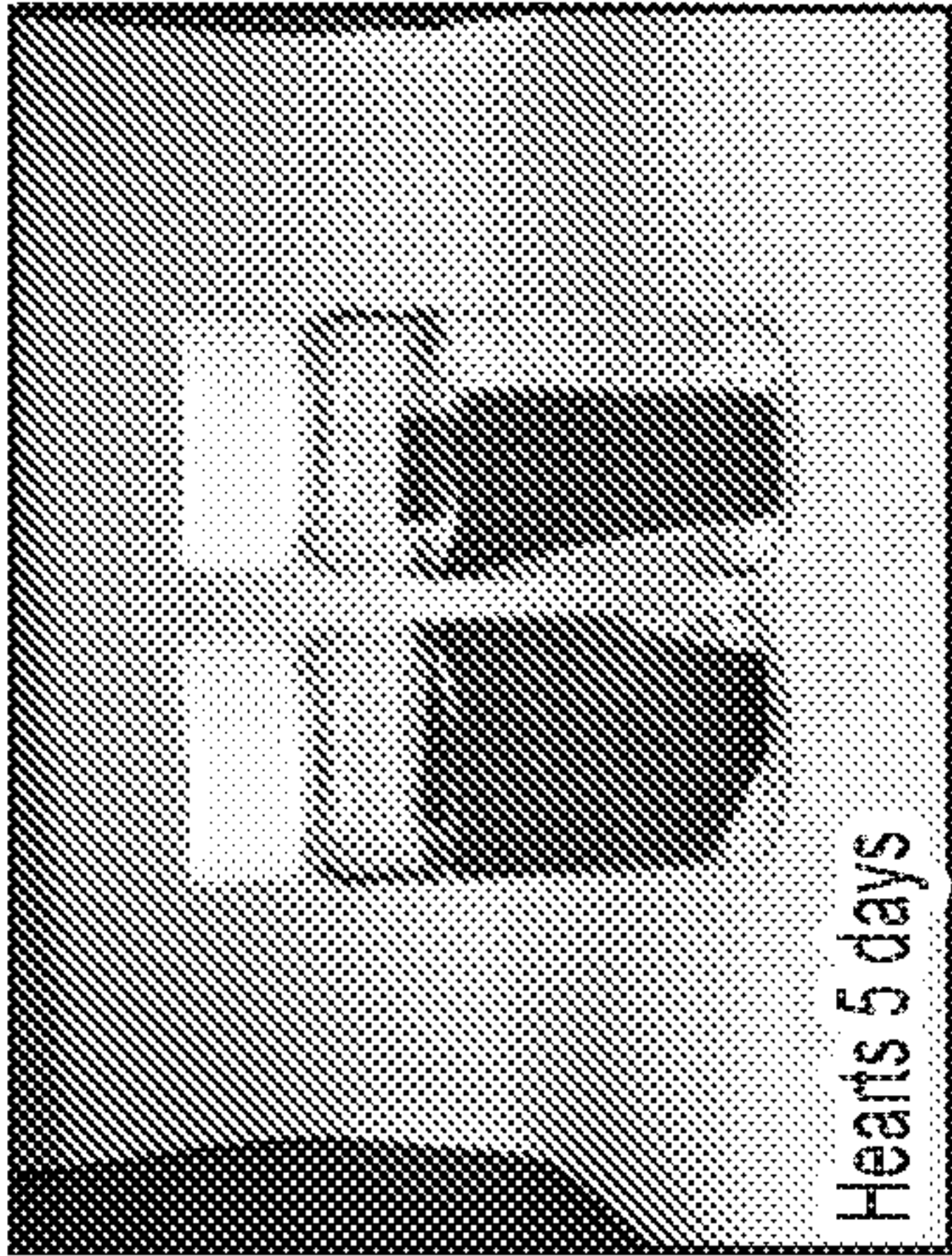
7 days



6 days



5 days



4 days

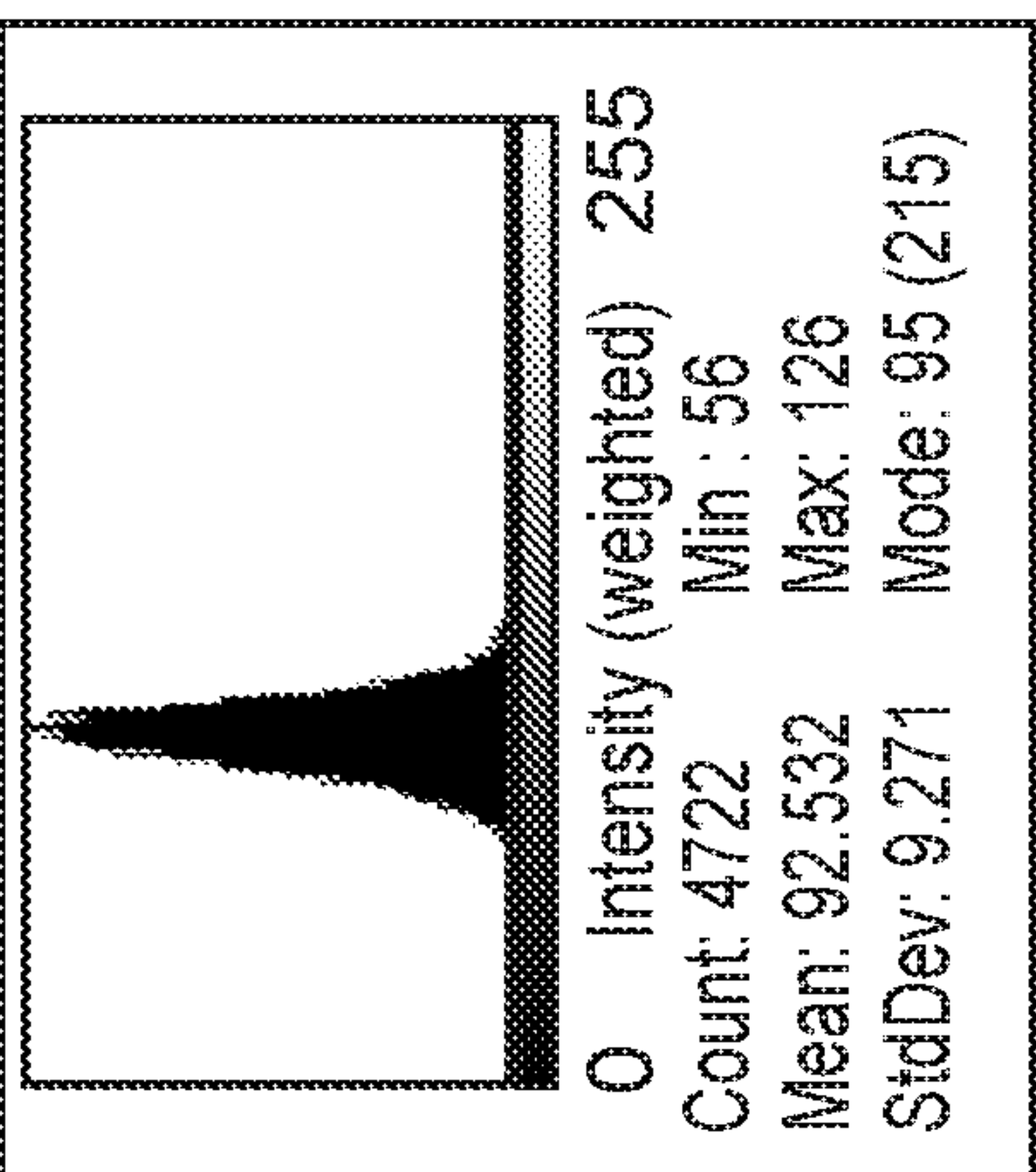
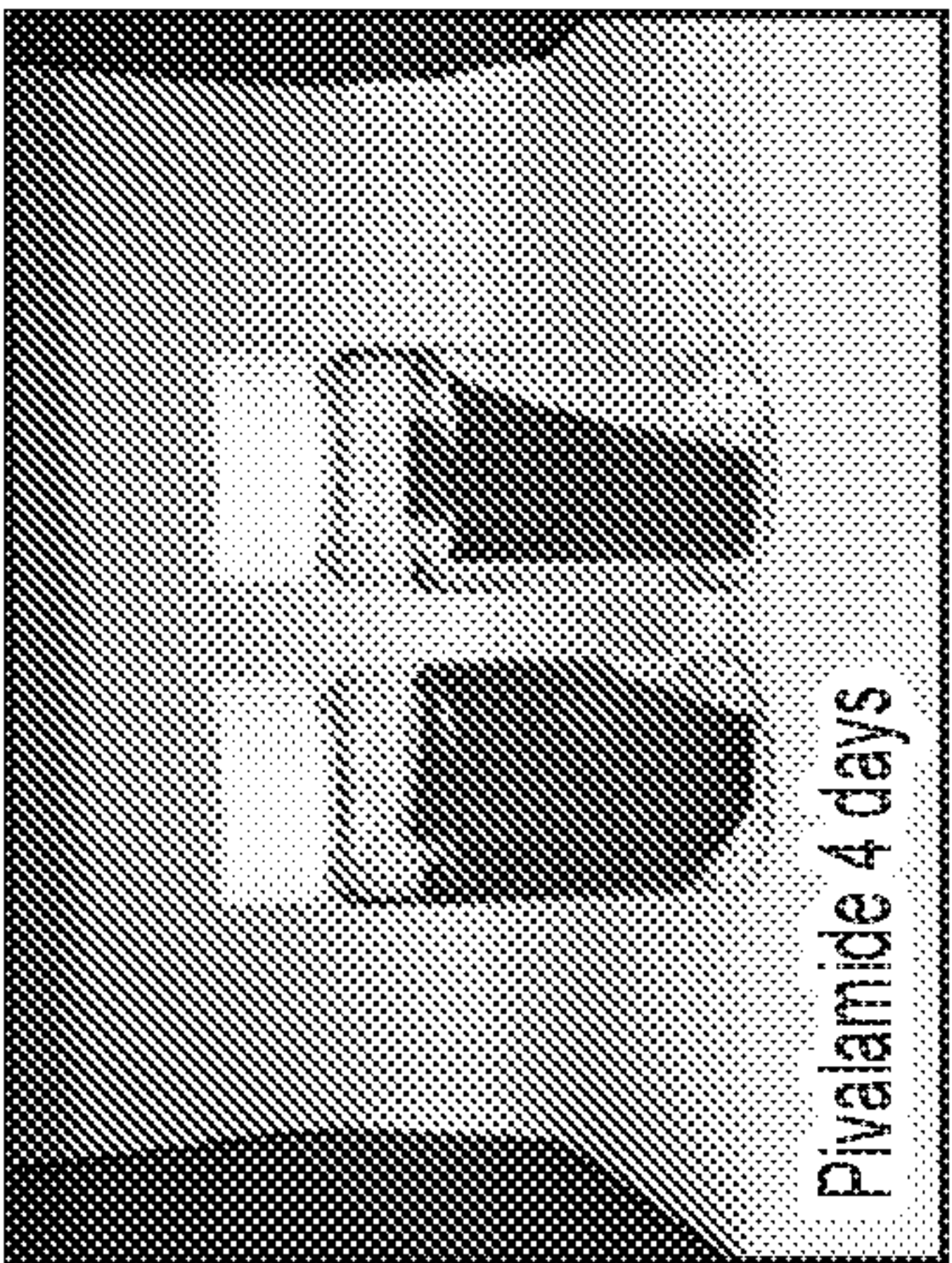


FIG. 15H

FIG. 15G

FIG. 15F

FIG. 15E