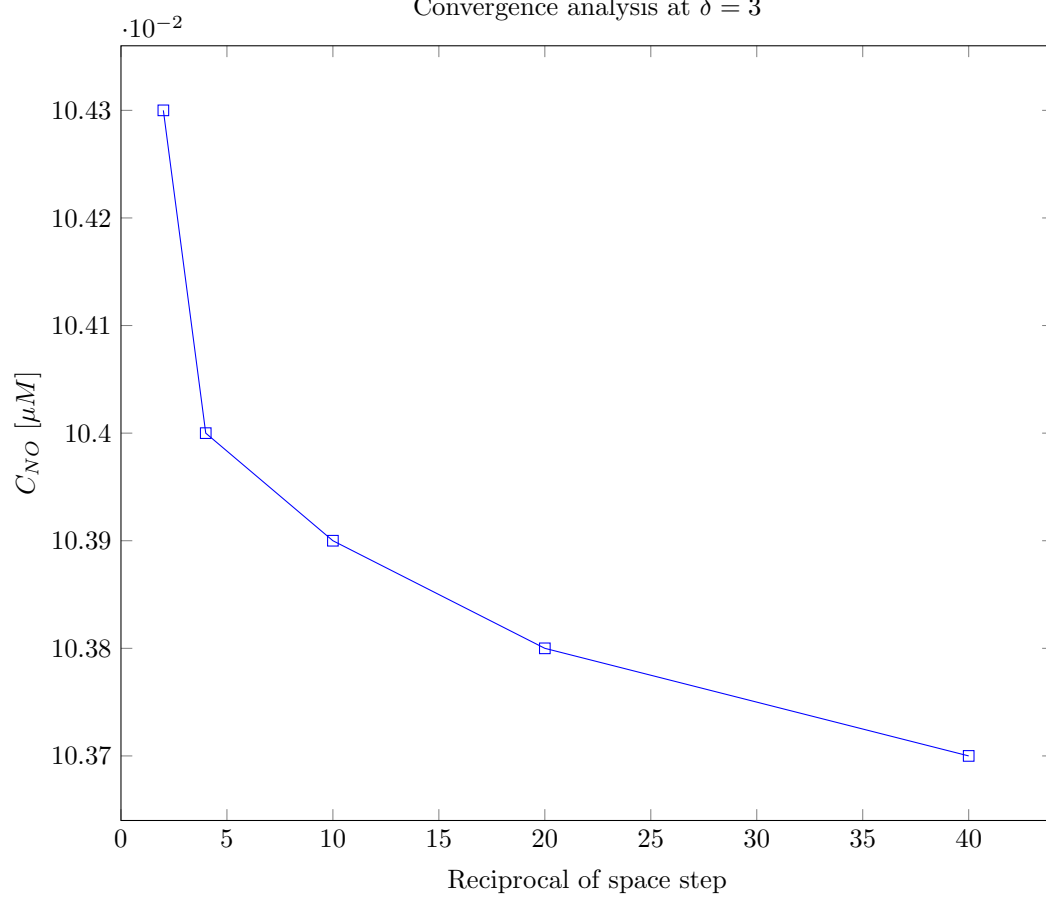
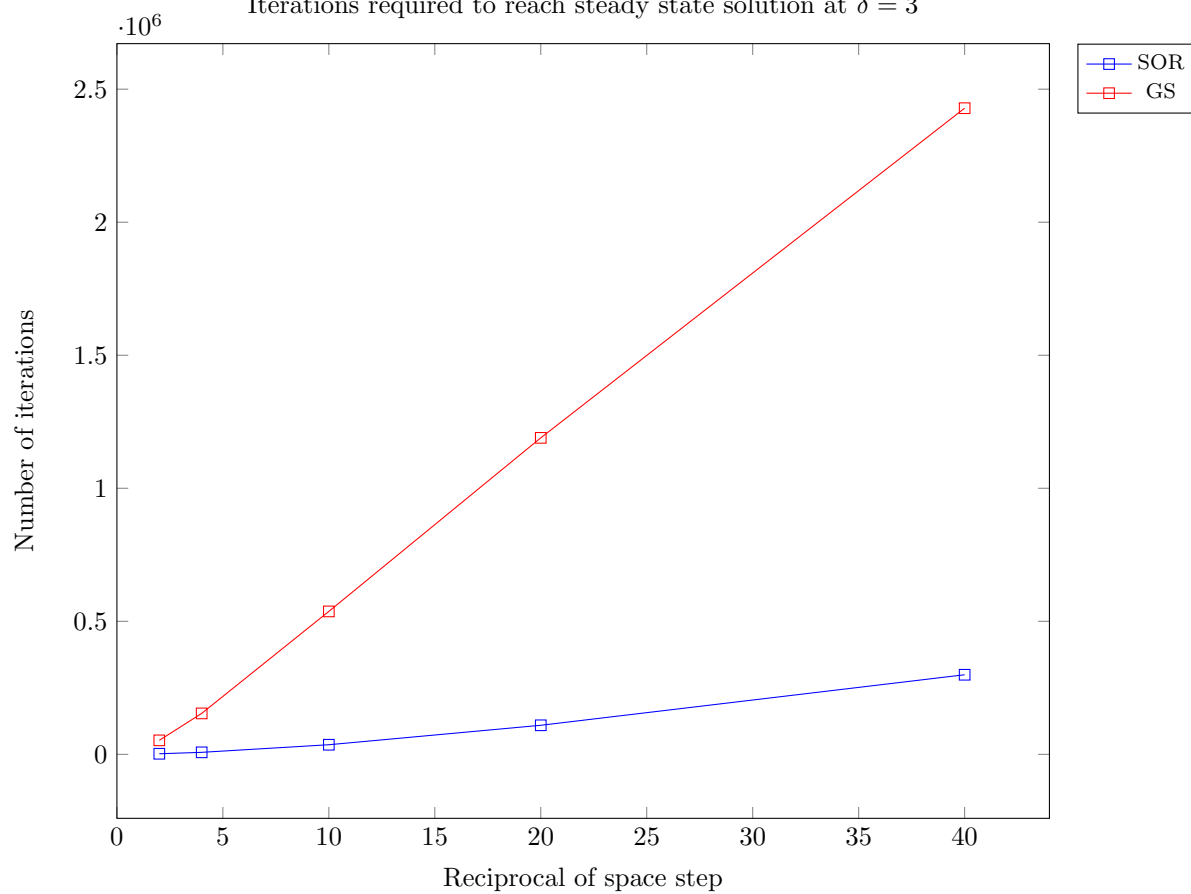
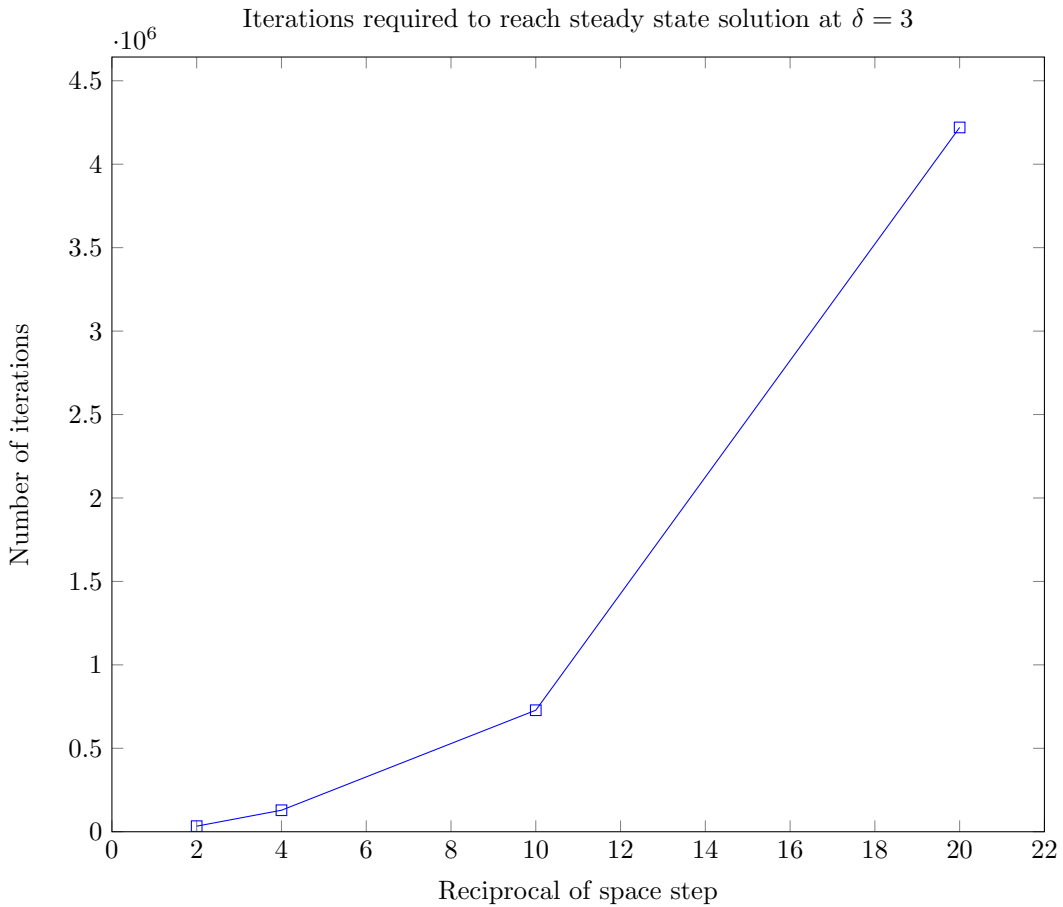
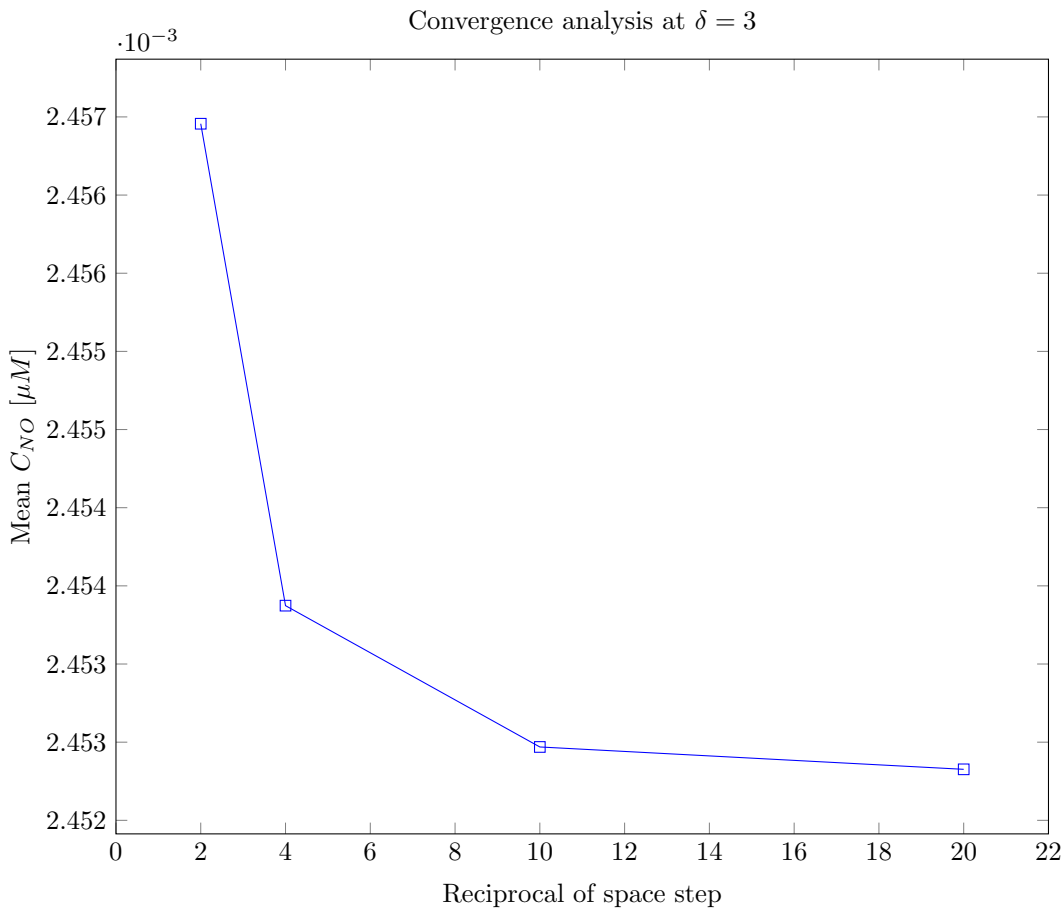
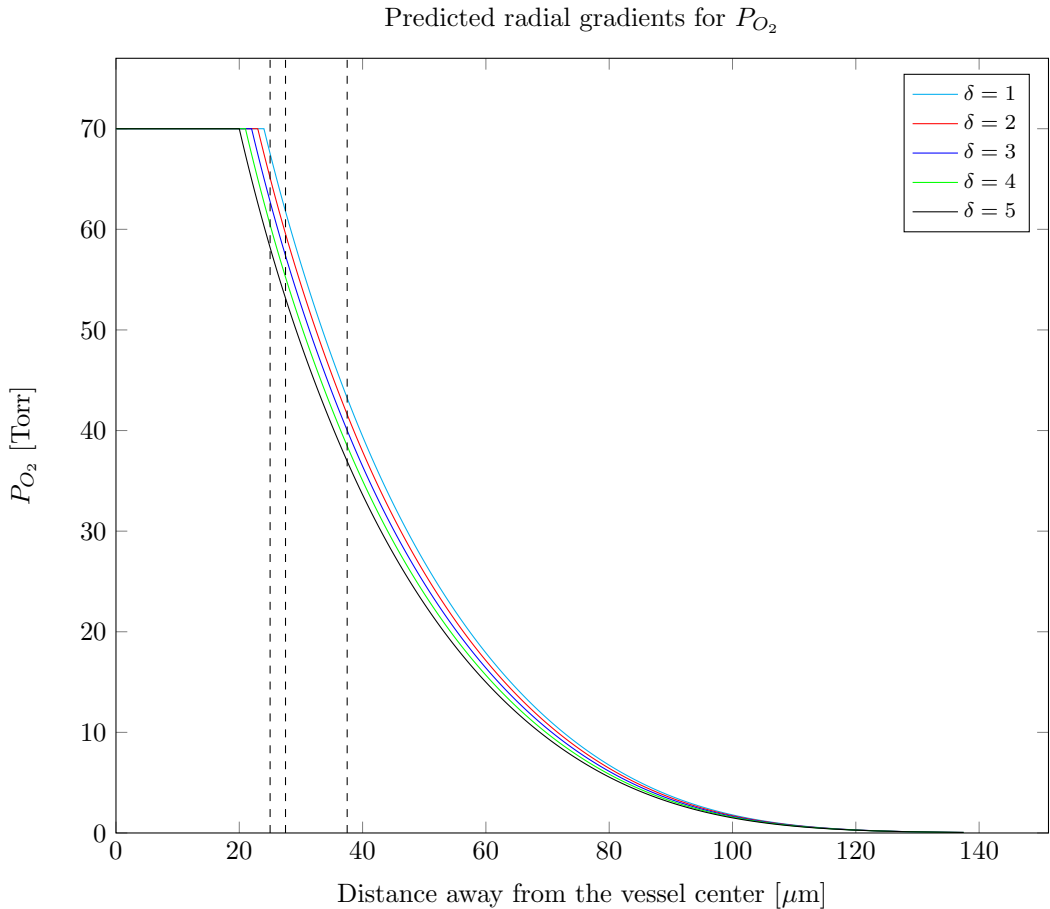
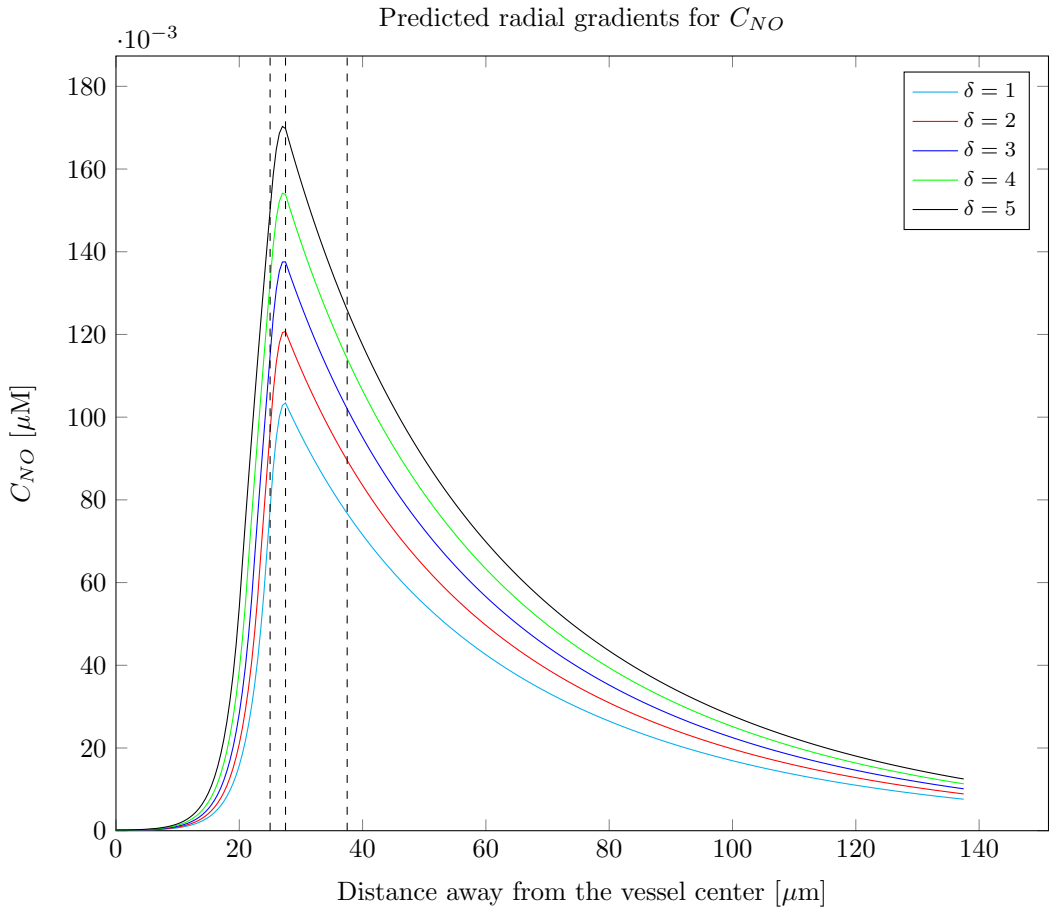


Convergence analysis at  $\delta = 3$ Iterations required to reach steady state solution at  $\delta = 3$ 

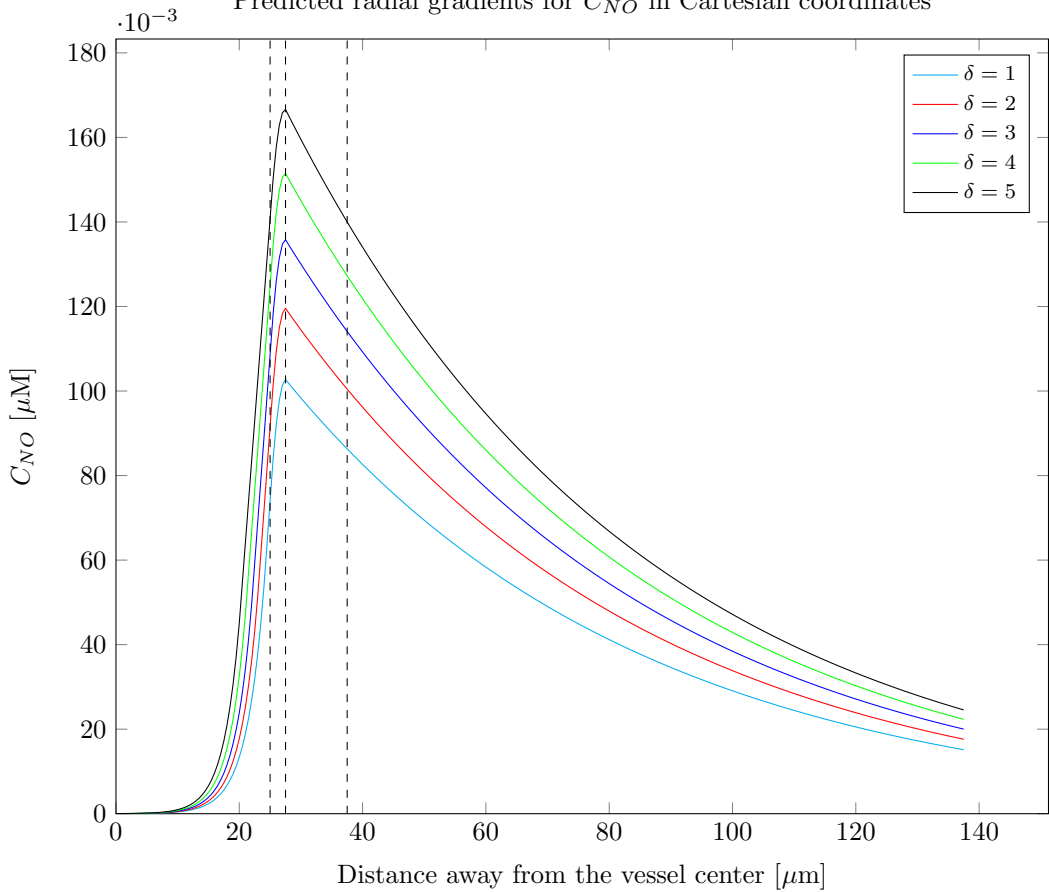


Polar  $h = 0.5$

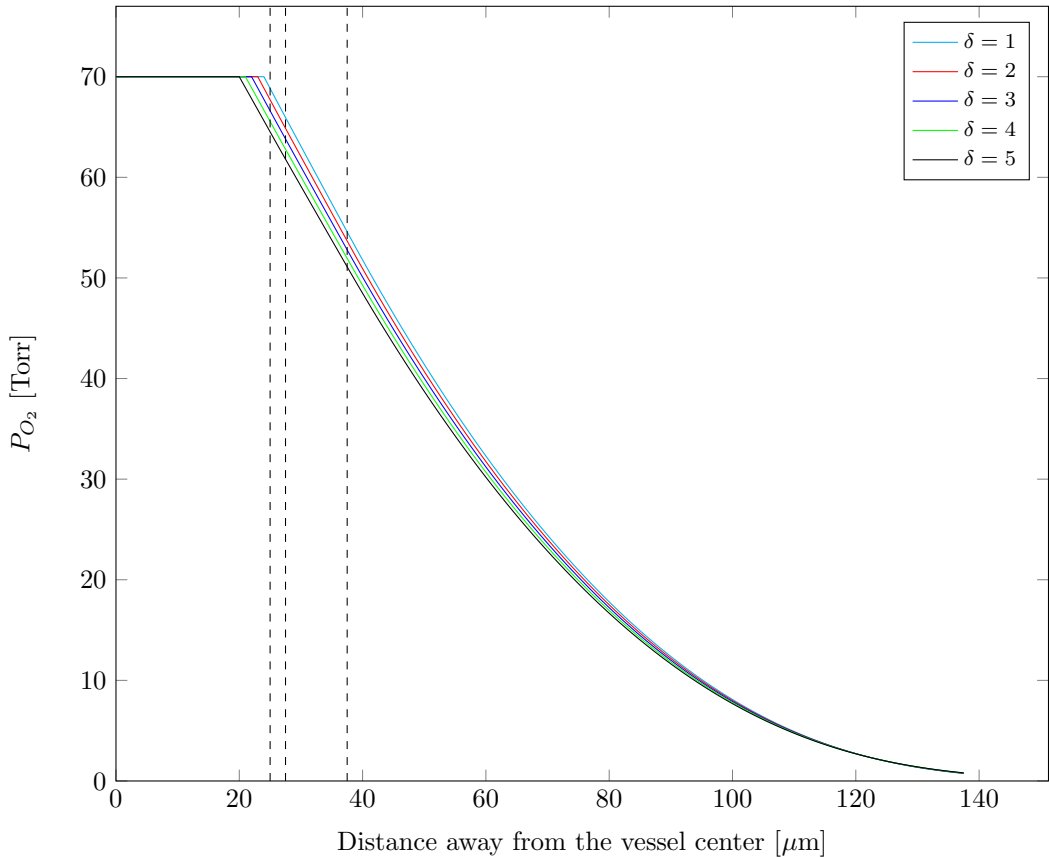


Cartesian  $h = 0.5$

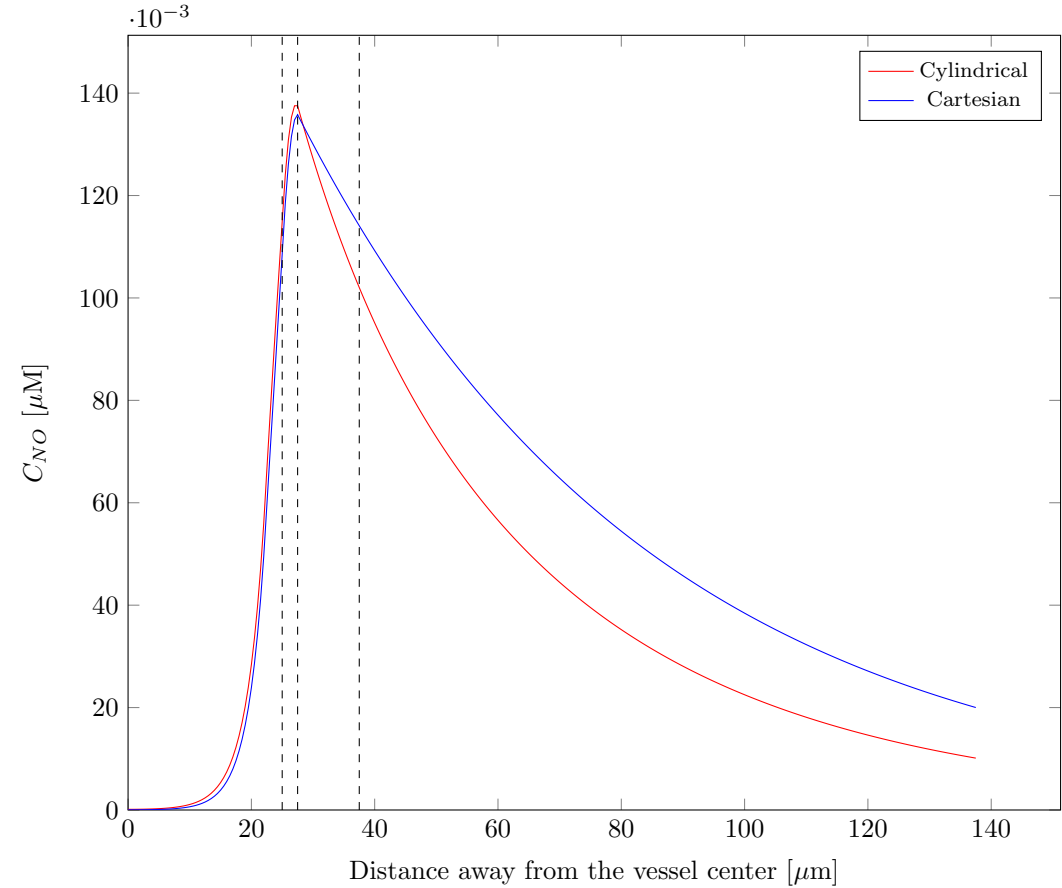
Predicted radial gradients for  $C_{NO}$  in Cartesian coordinates



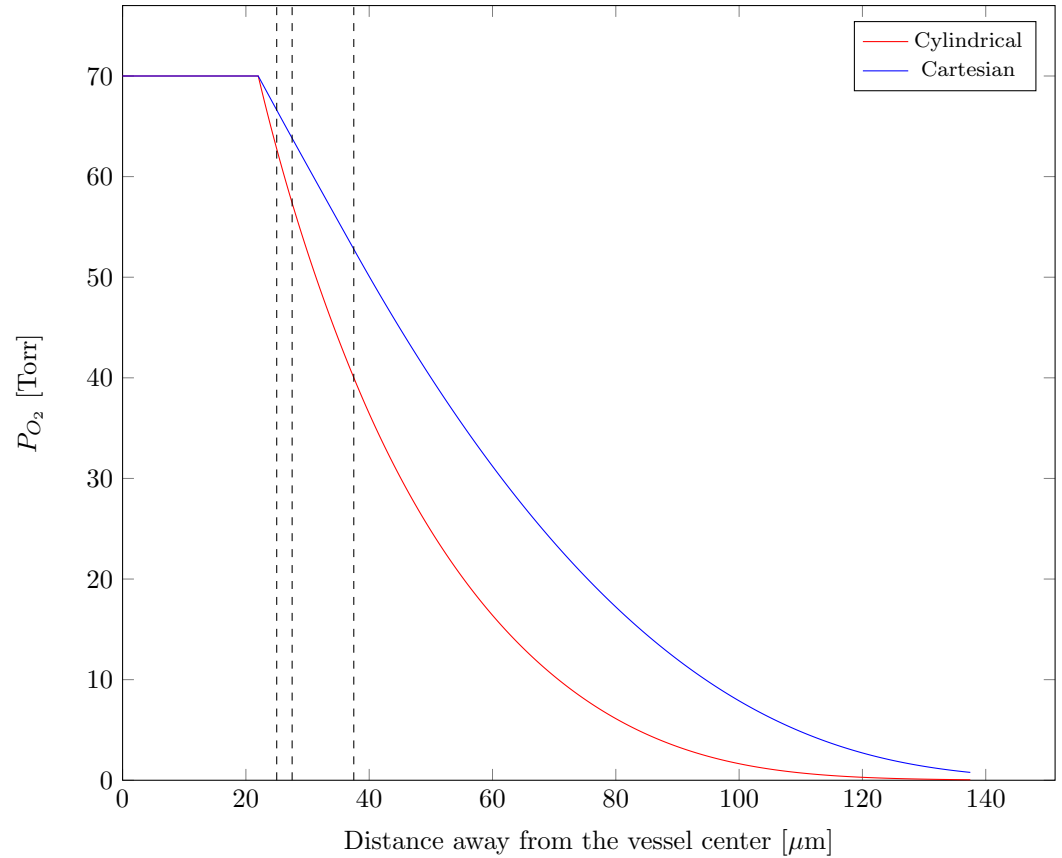
Predicted radial gradients for  $P_{O_2}$  in Cartesian coordinates



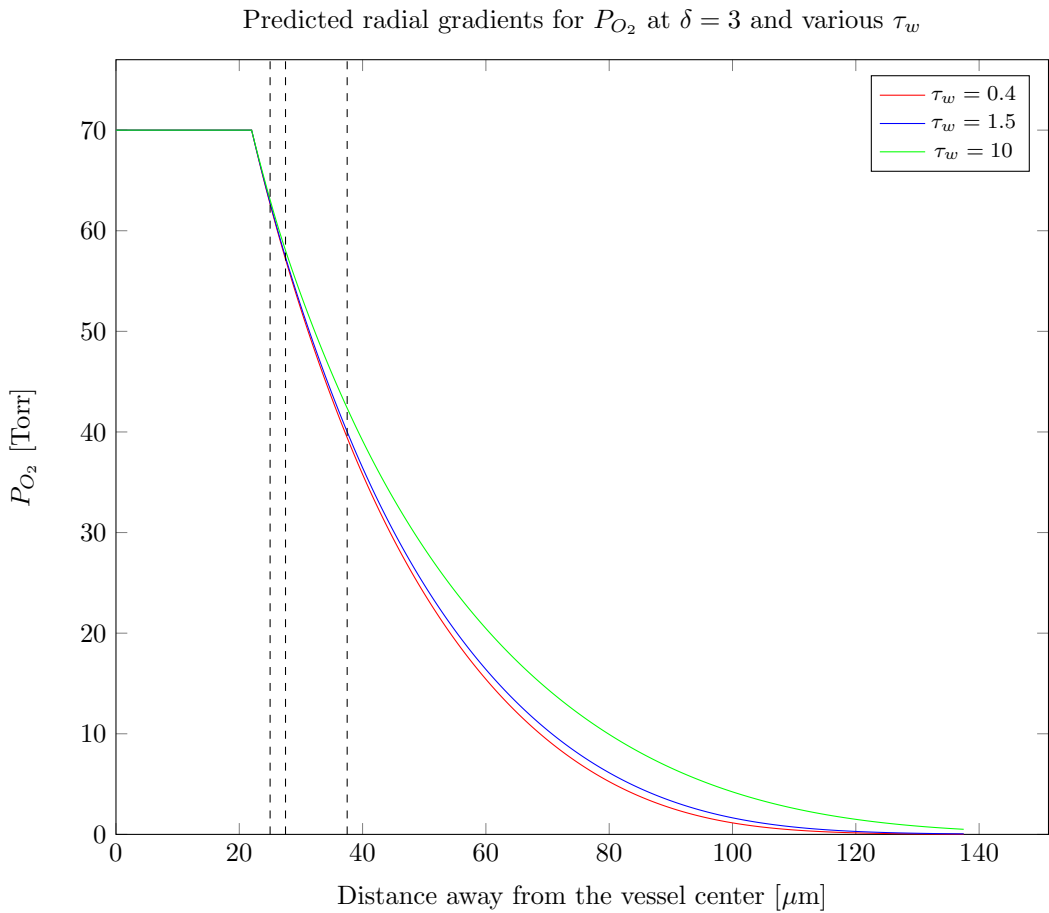
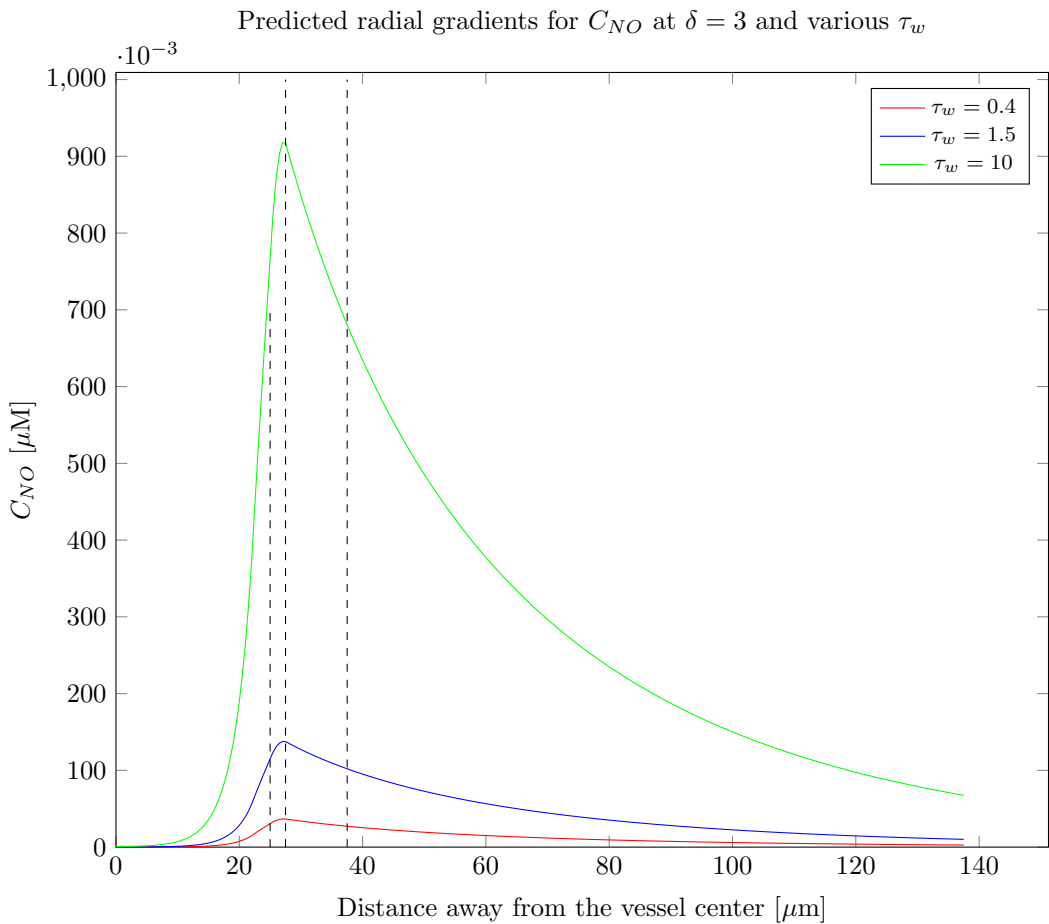
Cartesian vs Polar  
Predicted radial gradients for  $C_{NO}$  using Cartesian coordinates and Cylindrical coordinates at  $\delta = 3$



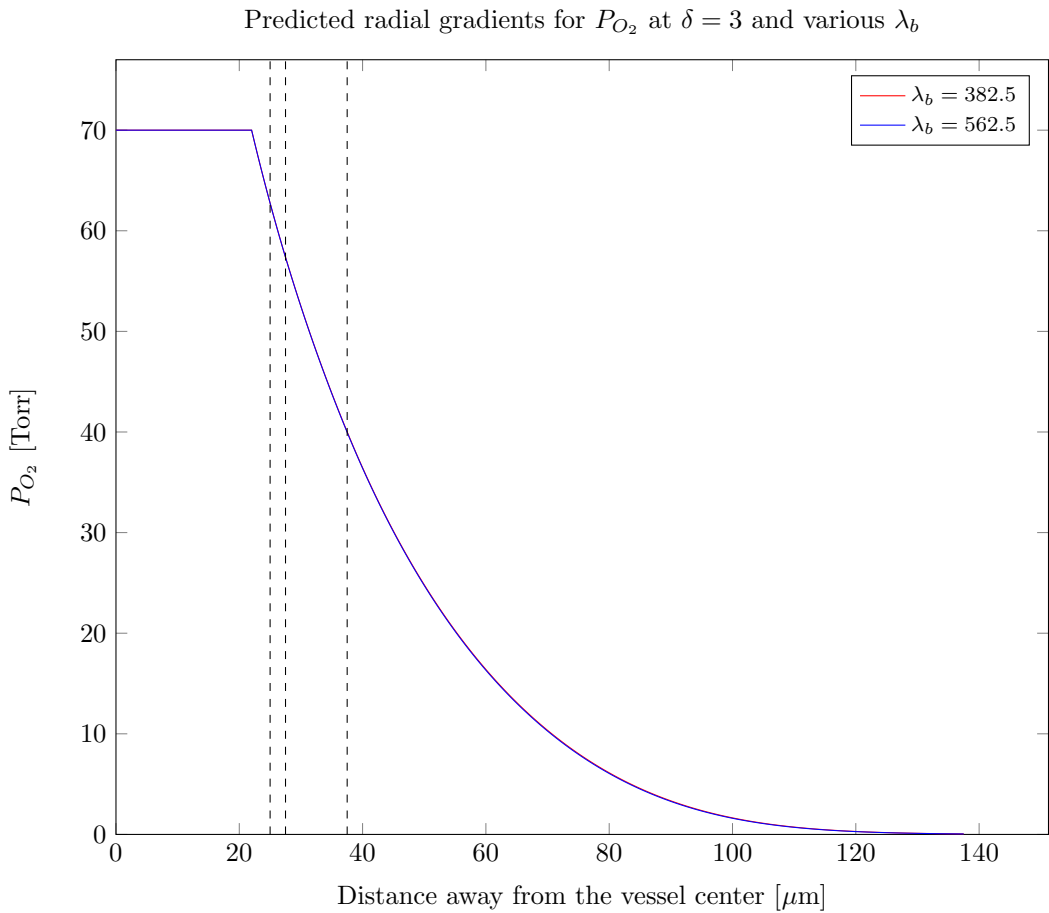
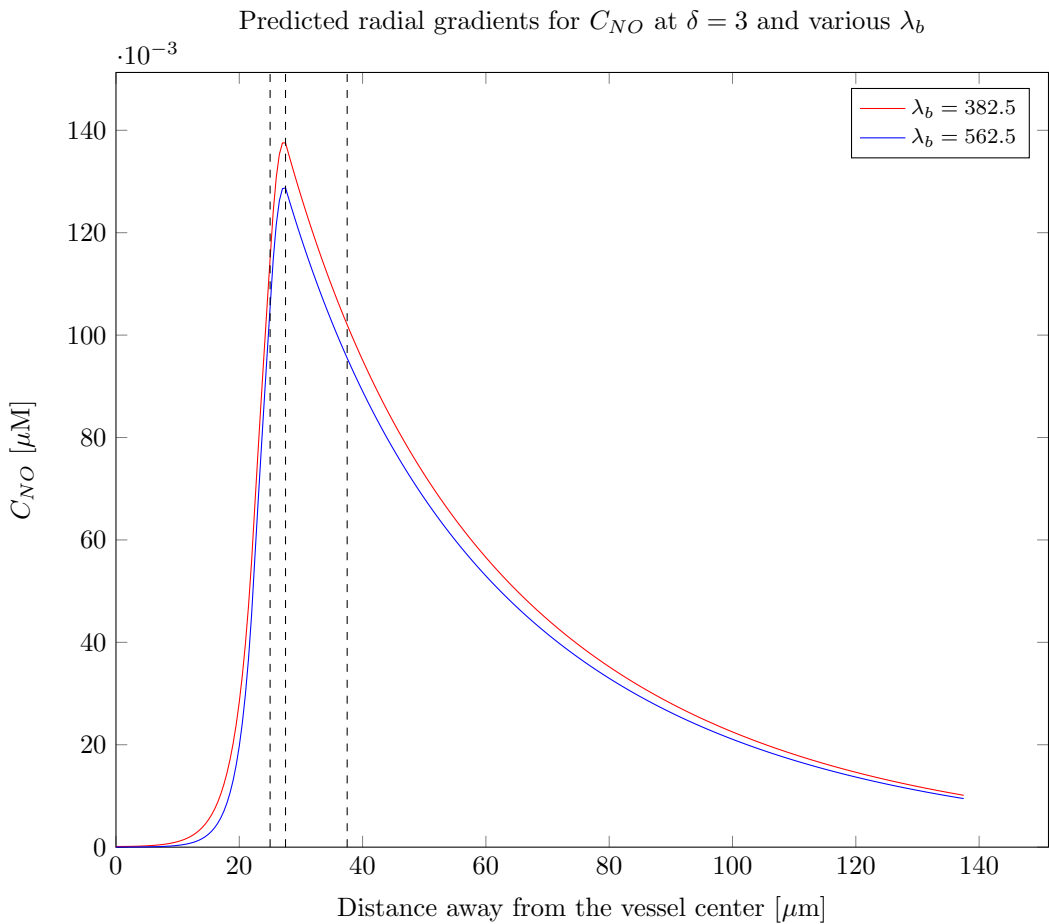
Predicted radial gradients for  $P_{O_2}$  using Cartesian coordinates and Cylindrical coordinates at  $\delta = 3$



Varying  $\tau_w$



Varying  $\lambda_b$



Polar  $h = 0.5$

