ANSYS SIMULATION & ANALYSIS

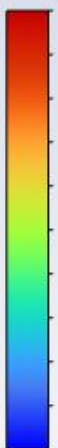For

Anemia Diagnosis

-Ganapathi Karthik V

-Ashwanth S

CONTENTS

- T-SHAPED MICROCHANNEL
- F-SHAPE MICROCHANNEL
- TAP SHAPED MICROCHANNEL
- DUAL-RING BASED MICROCHANNEL
- PIPETTE BASED MICROCHANNEL
- SMALL INTESTINE BASED MICROCHANNEL
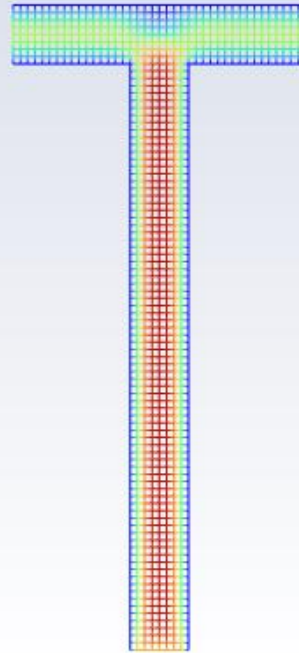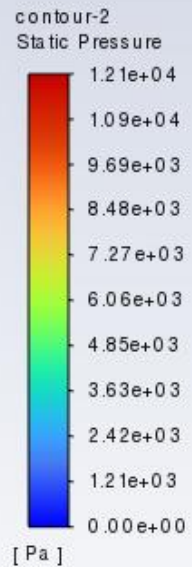
T shaped Microchannel

Velocity Gradient

Pressure Gradient

Iterative Graph

F-Shaped MicroChannel

Pressure Gradient

Velocity Gradient

Iterative Graph

TAP Shaped MicroChannel
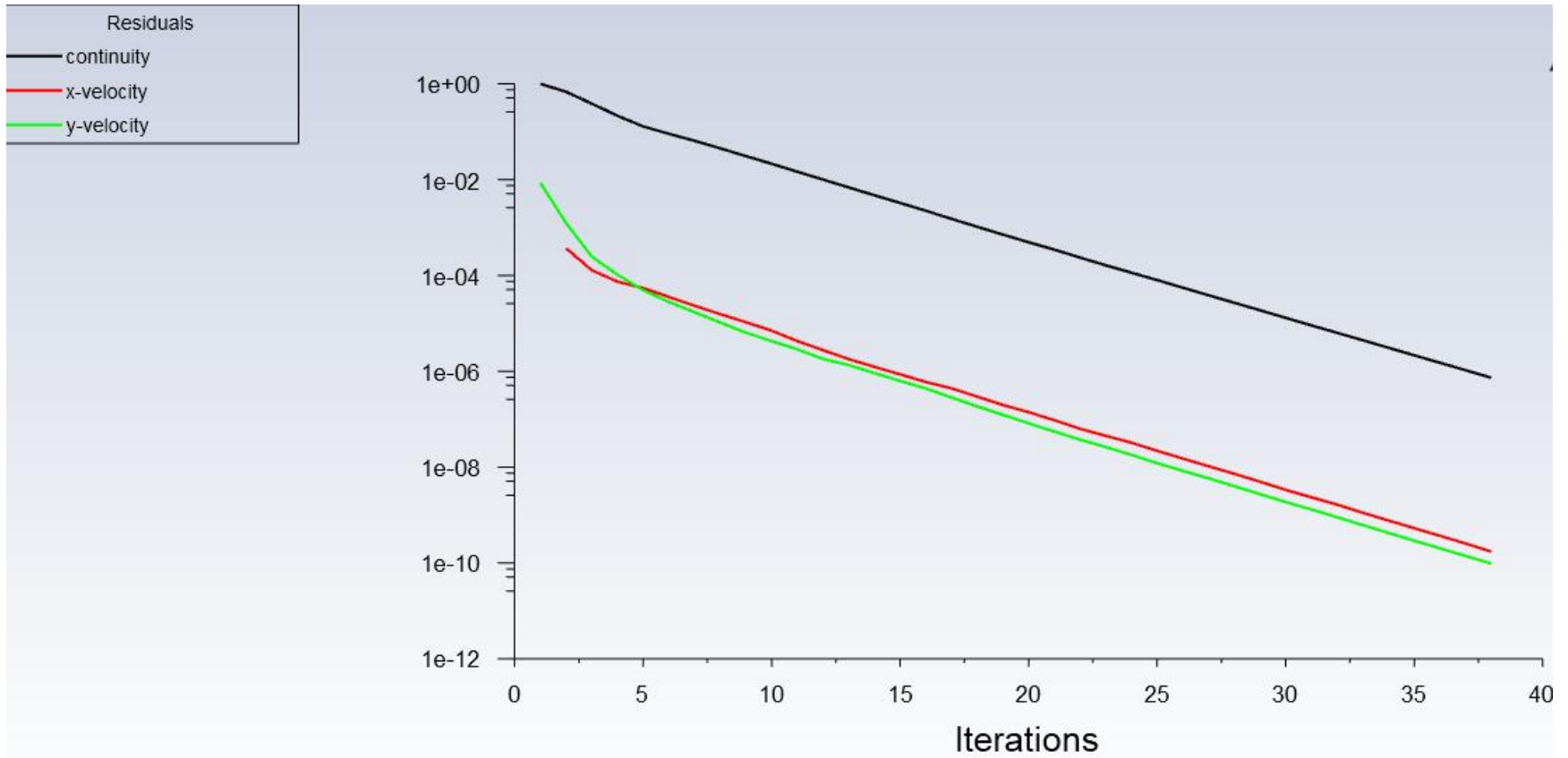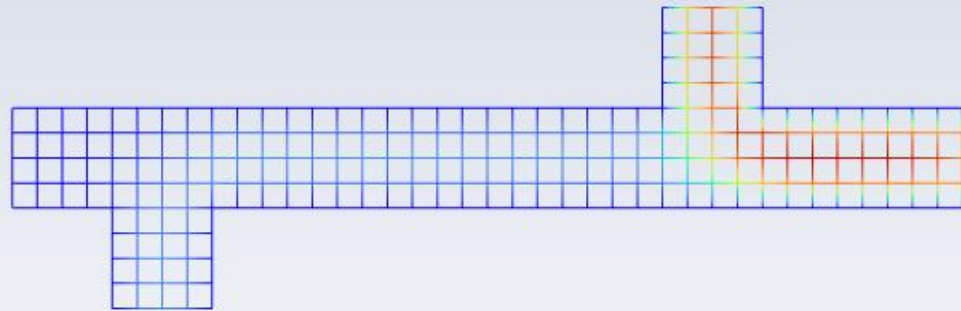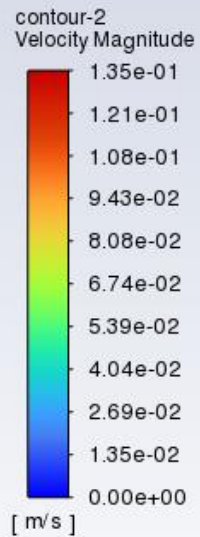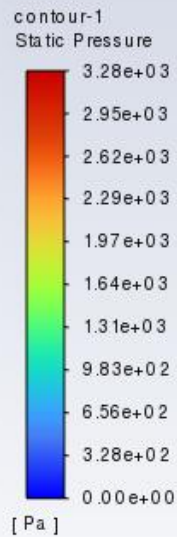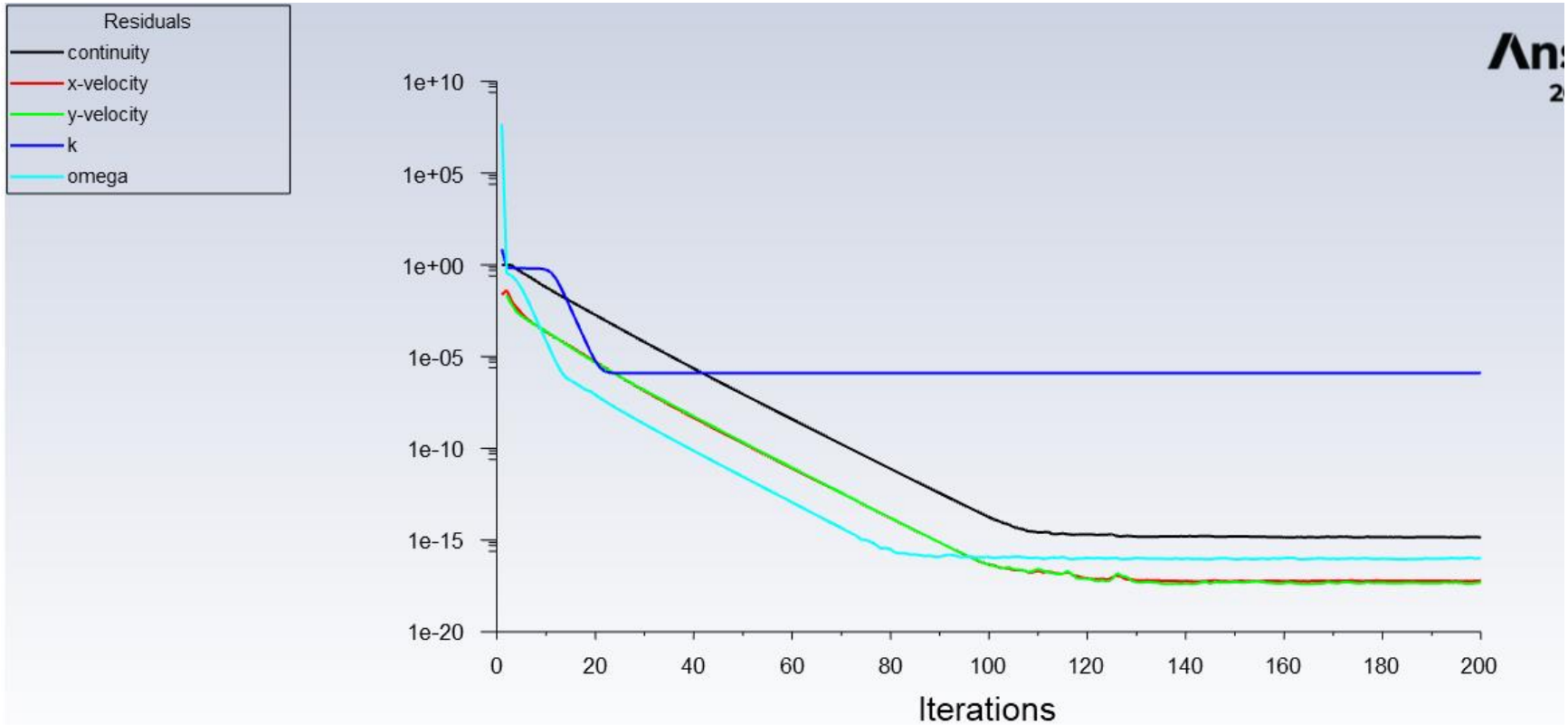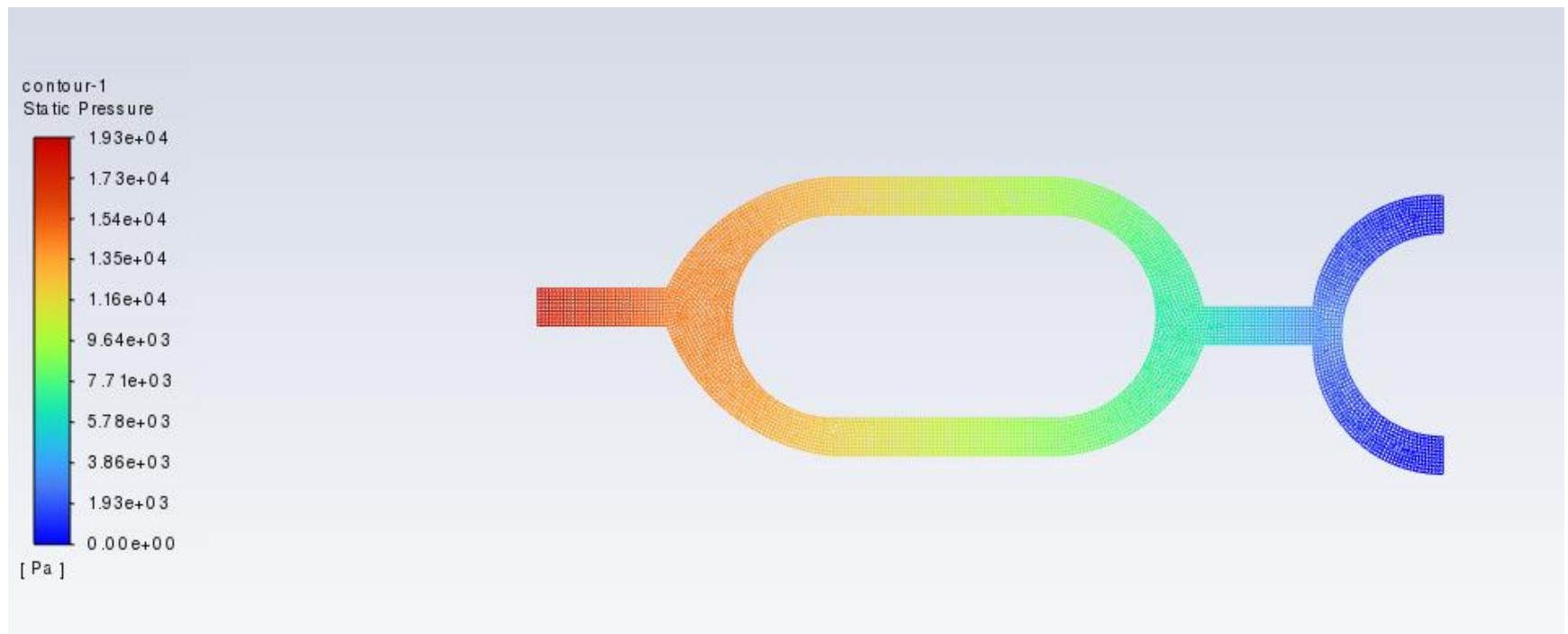
Velocity Gradient

Pressure Gradient

Iteration Graph

DUAL RING BASED MICROCHANNEL

Pressure Gradient

Velocity Gradient

Iterative Graph
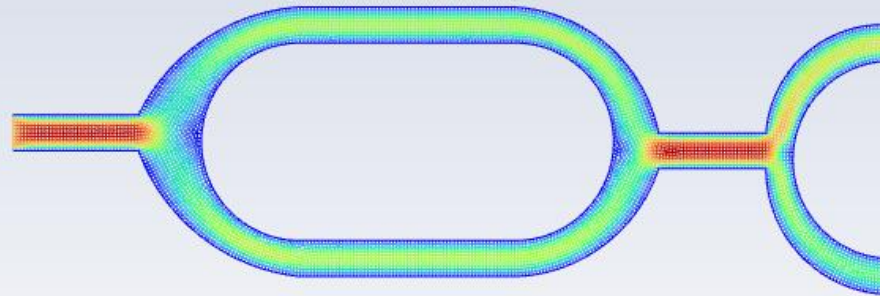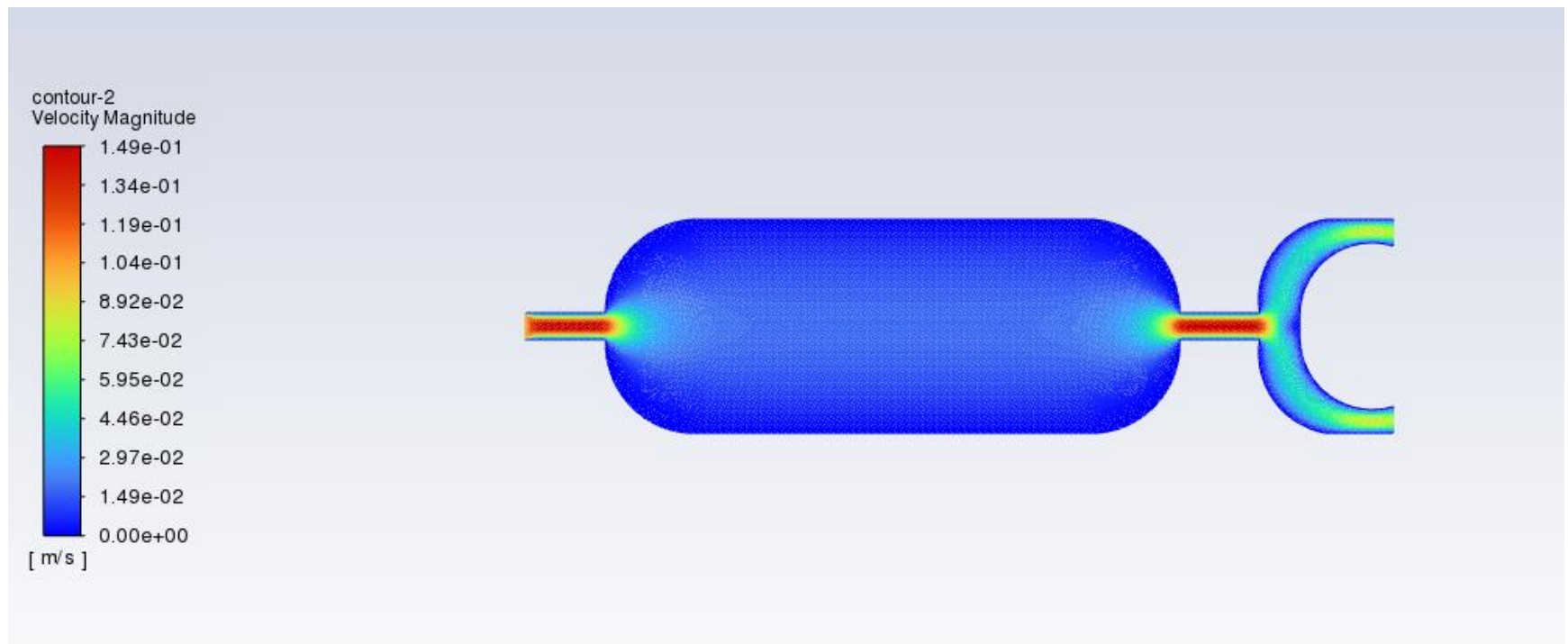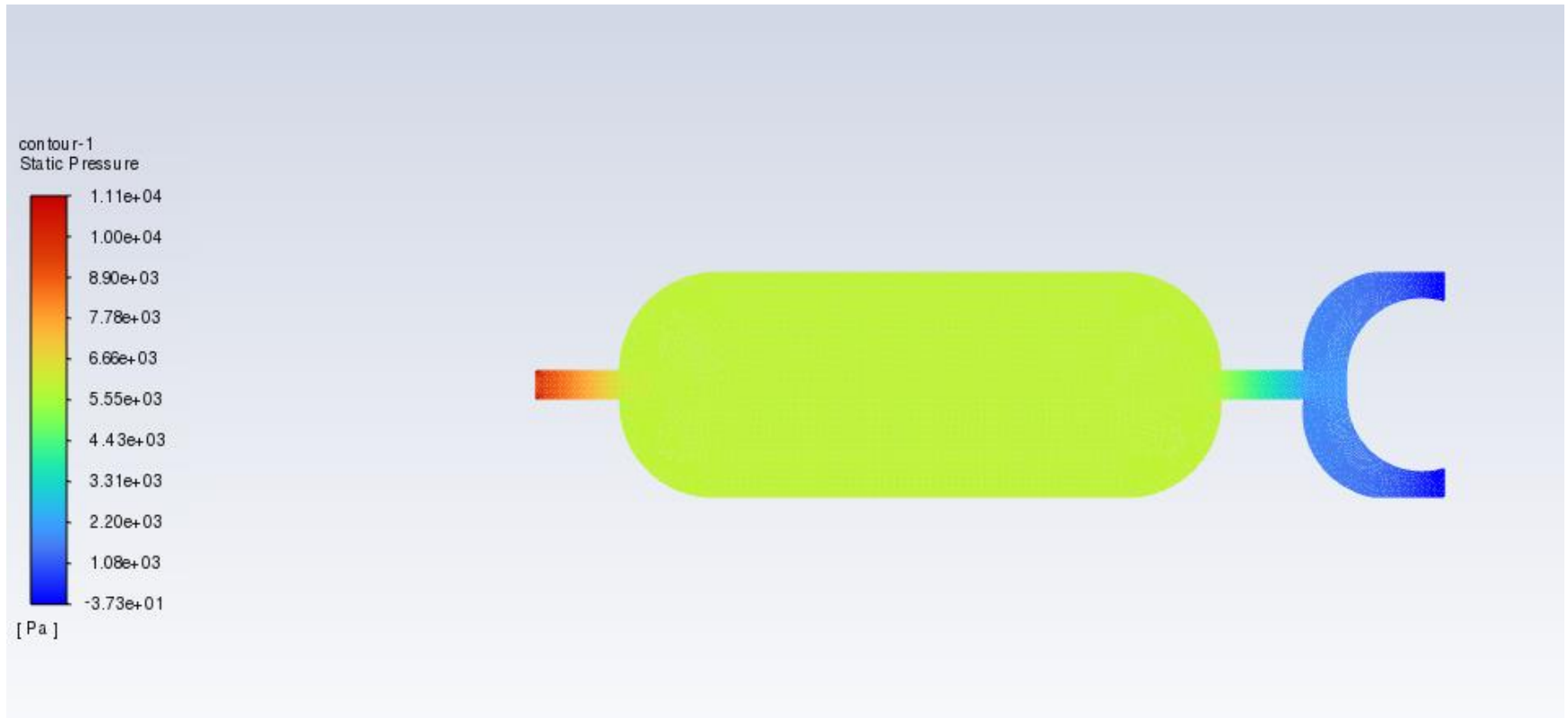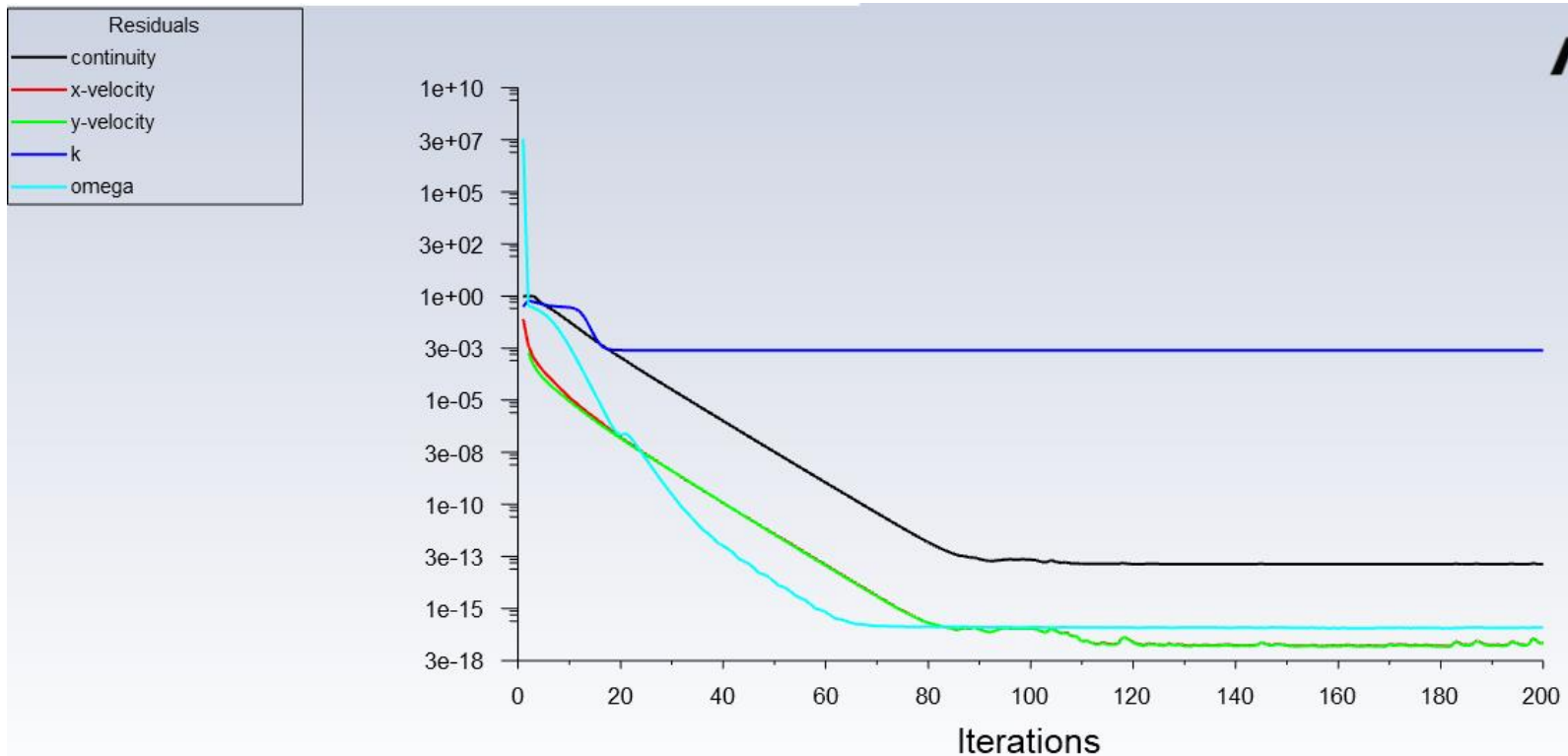
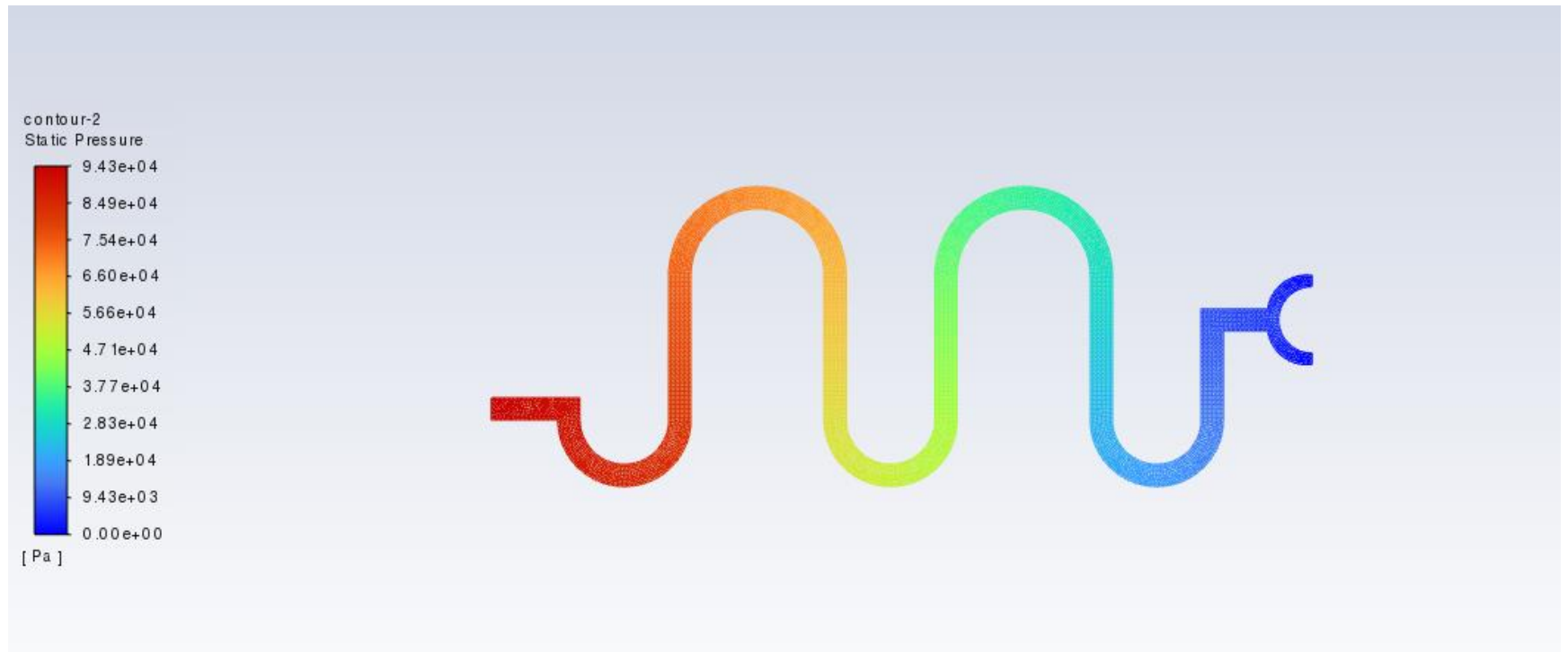# PIPETTE BASED MICROCHANNEL

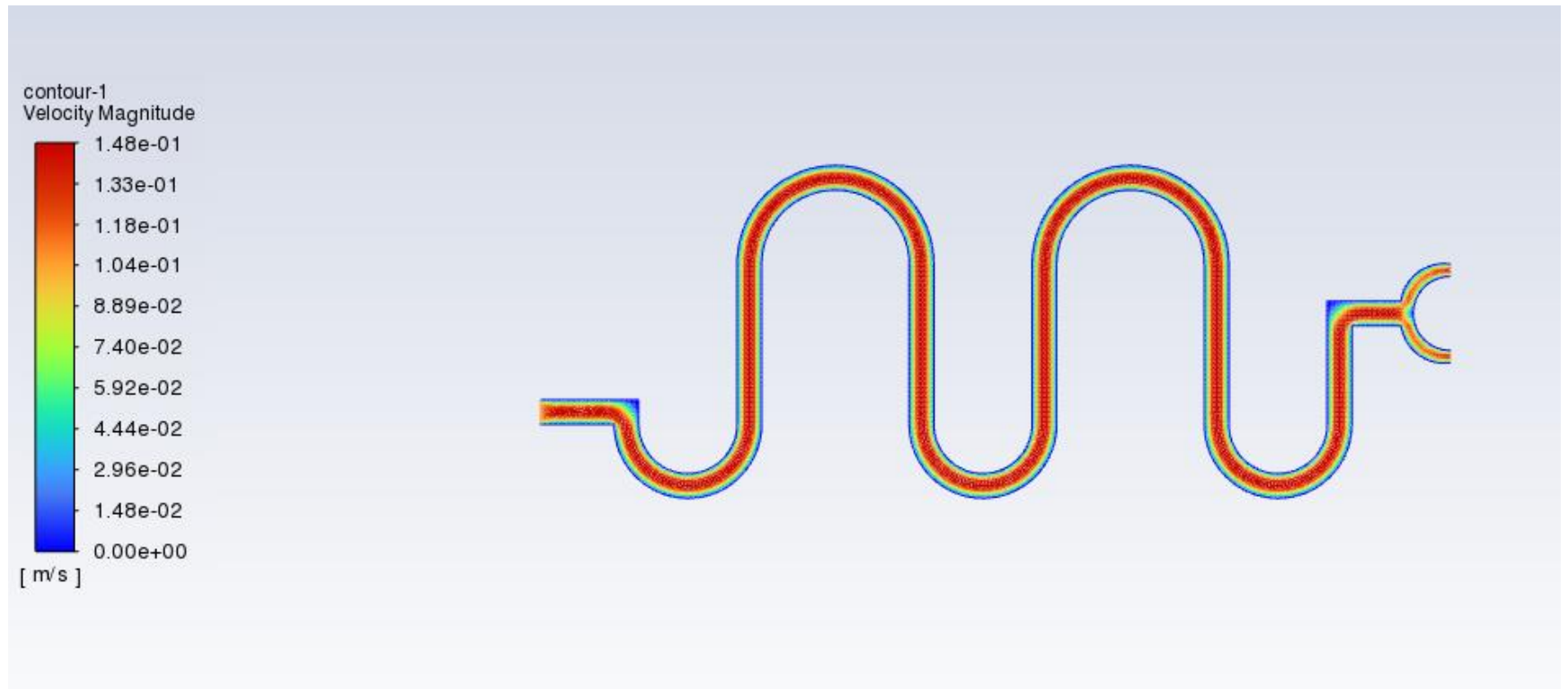# Velocity Gradient

Pressure Gradient

Iterative Graph

INTESTINE BASED MICROCHANNEL

Pressure Gradient

contour-2
Static Pressure

9.43e+04
8.49e+04
7.54e+04
6.60e+04
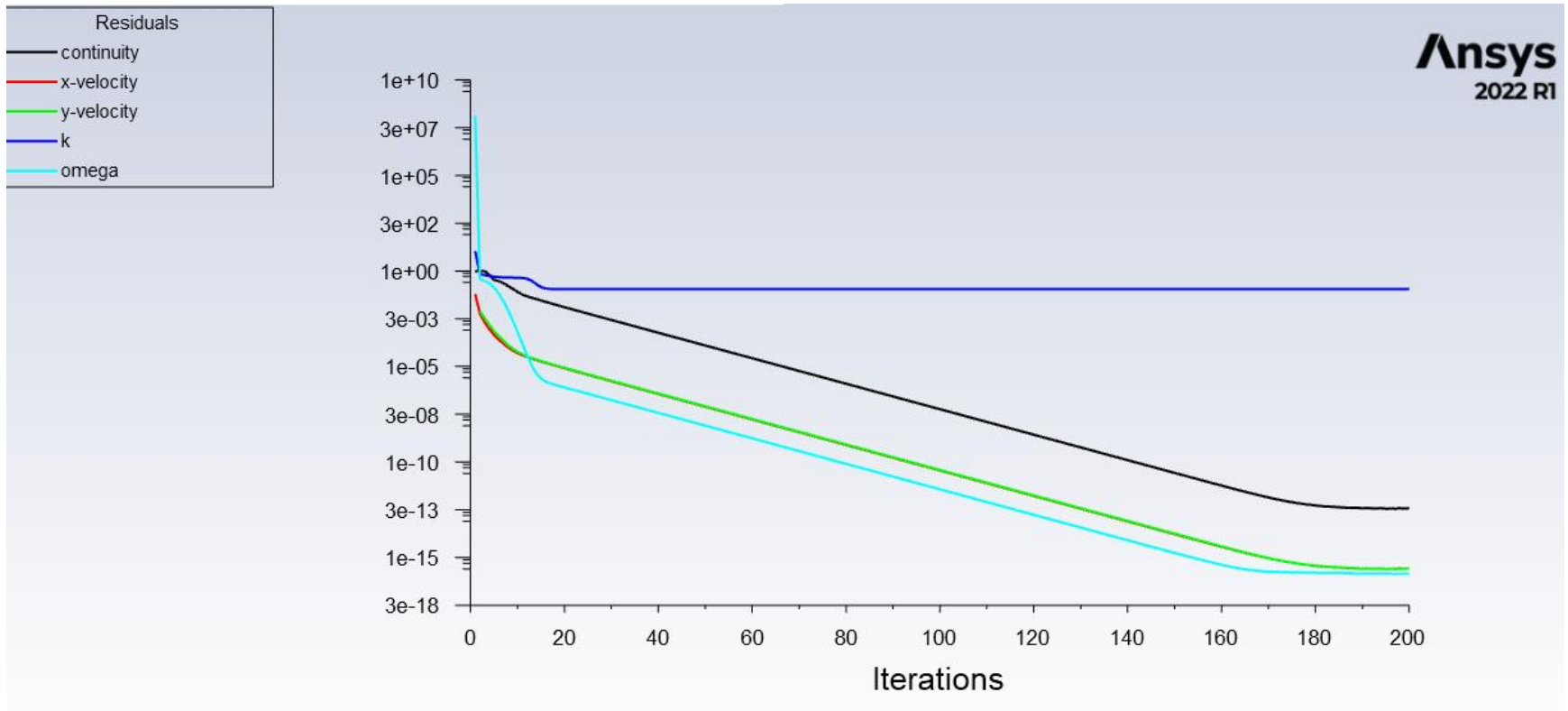5.66e+04
4.71e+04
3.77e+04
2.83e+04
1.89e+04
9.43e+03
0.00e+00

[Pa]

Velocity Gradient

Iterative Graph

THANK YOU