



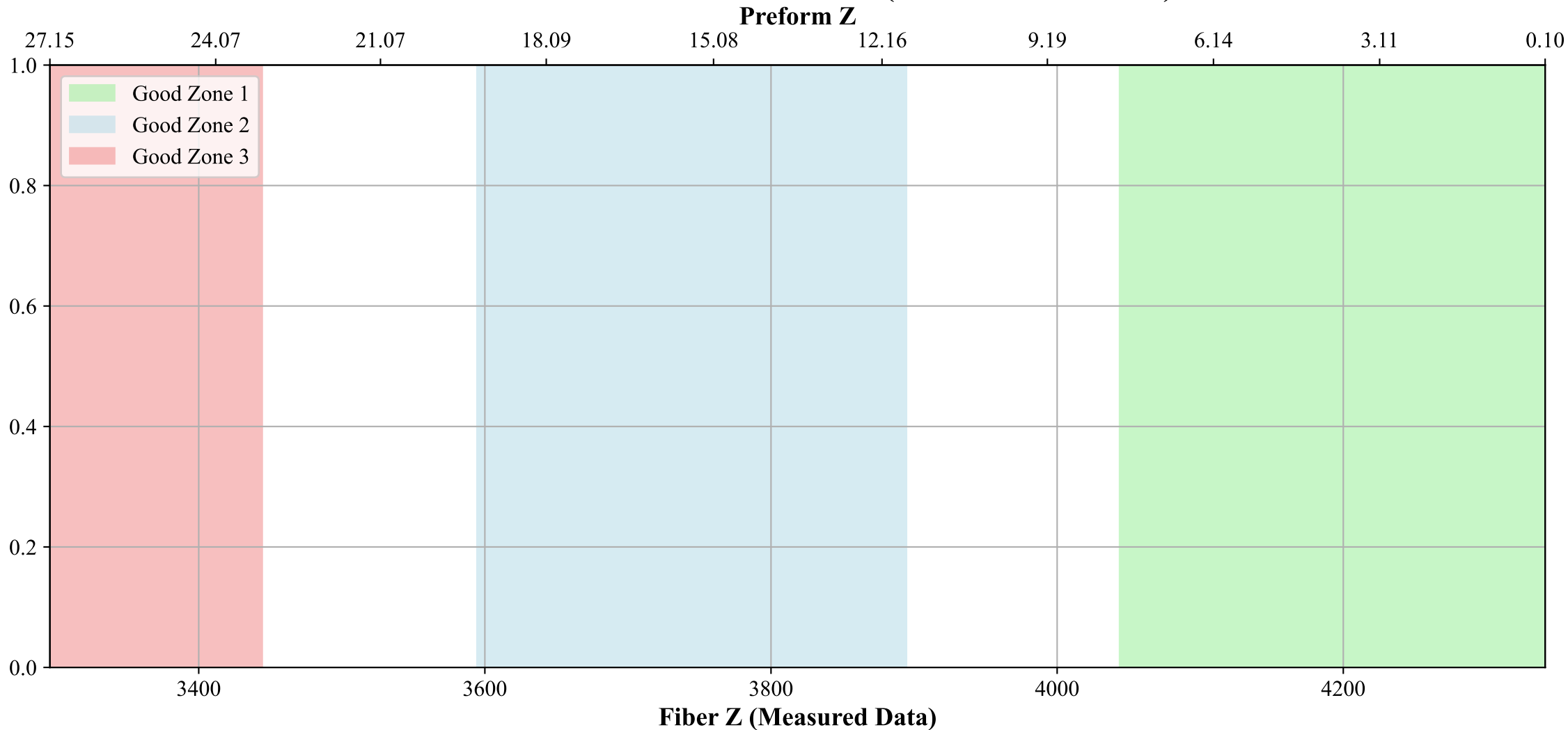
Fiber Name: po455

Tower Operator: of

Drawing Date: 6

Section A - Fiber Good Zones for T&M

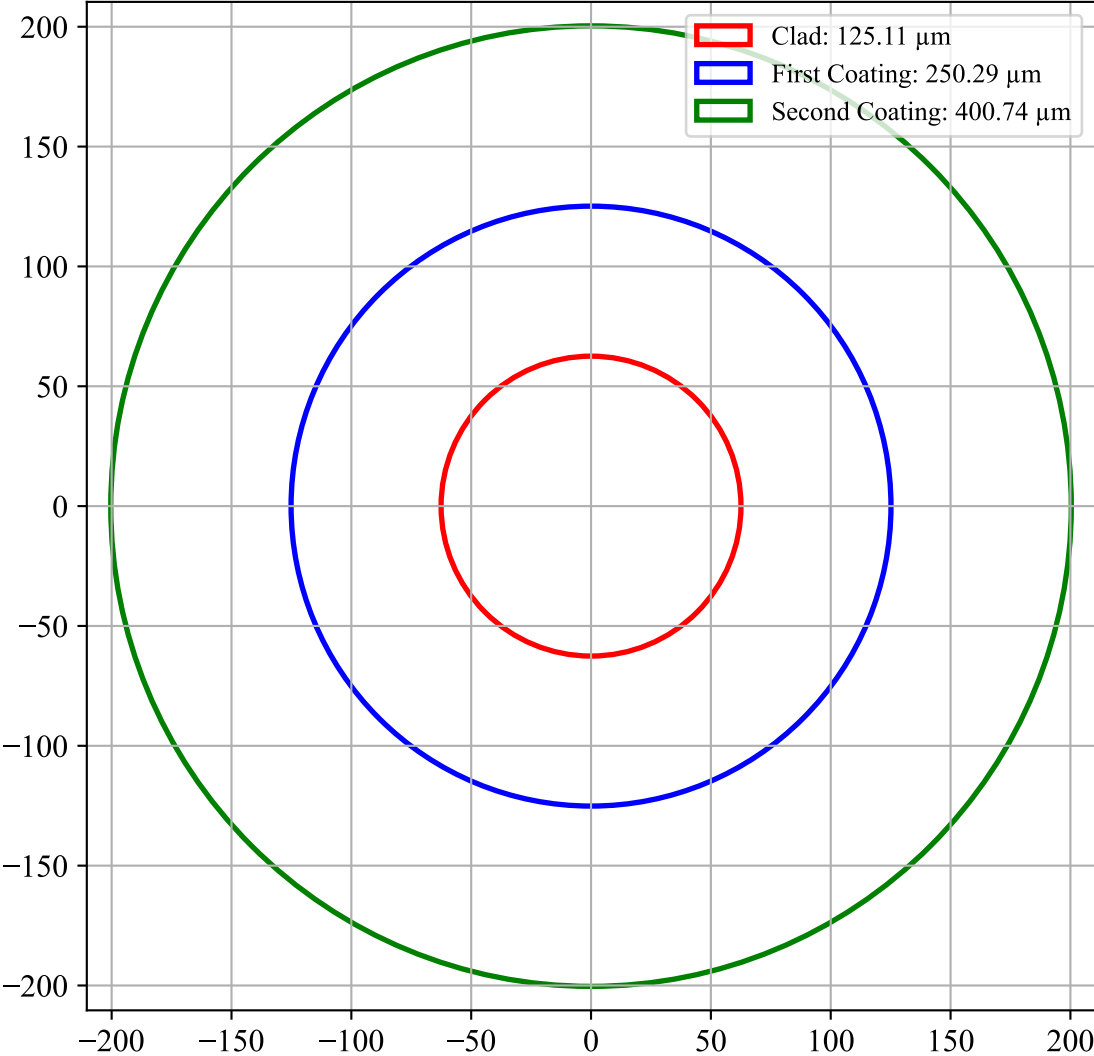
Good Fiber Zones with Dual X-Axis (Fiber Z & Preform Z)



==== Good Fiber Zone 1 (Fiber Z: 4043.74 - 4341.09) ====

Tension (N): 2.57 ± 0.15
Clad Diameter (μm): 125.11 ± 0.46
First Coating Diameter (μm): 250.29 ± 0.66
Second Coating Diameter (μm): 400.74 ± 2.23
Furnace Temperature ($^{\circ}\text{C}$): 2101.80 ± 13.66
Cooling Rate ($^{\circ}\text{C/s}$): 14.87 ± 0.69
UV Power (W): 78.92 ± 4.33

====T&M Section====
New fiber name= _____
Core Diameter(μm) = _____
Clad Diameter(μm) = _____
First coating Diameter(μm) = _____
Second coating Diameter(μm) = _____
Birefringence= _____

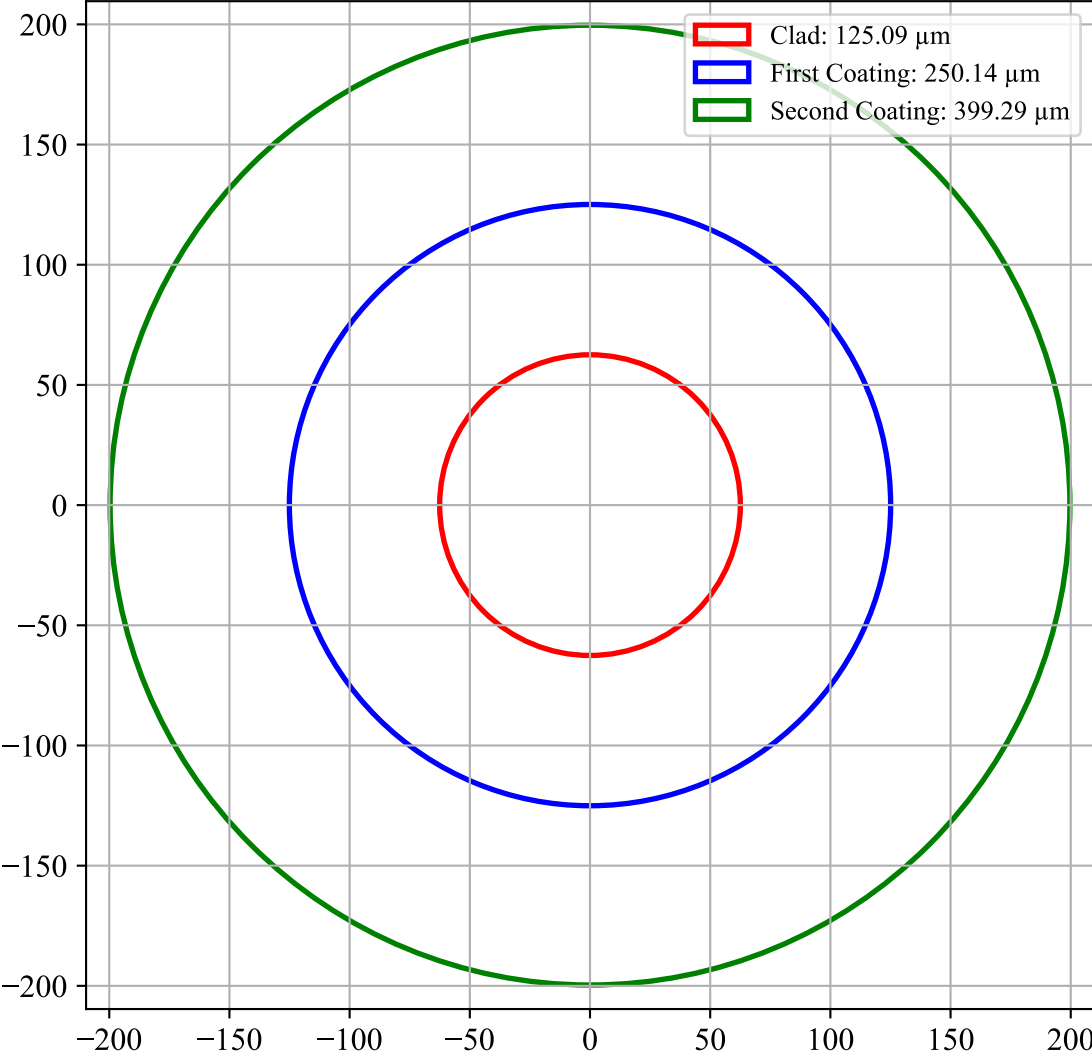


==== Good Fiber Zone 2 (Fiber Z: 3594.60 - 3894.59) ====

Tension (N): 2.53 ± 0.21
Clad Diameter (μm): 125.09 ± 0.49
First Coating Diameter (μm): 250.14 ± 0.88
Second Coating Diameter (μm): 399.29 ± 2.36
Furnace Temperature ($^{\circ}\text{C}$): 2101.52 ± 5.97
Cooling Rate ($^{\circ}\text{C}/\text{s}$): 15.40 ± 1.07
UV Power (W): 78.65 ± 4.54

====T&M Section====

New fiber name= _____
Core Diameter(μm) = _____
Clad Diameter(μm) = _____
First coating Diameter(μm) = _____
Second coating Diameter(μm) = _____
Birefringence= _____

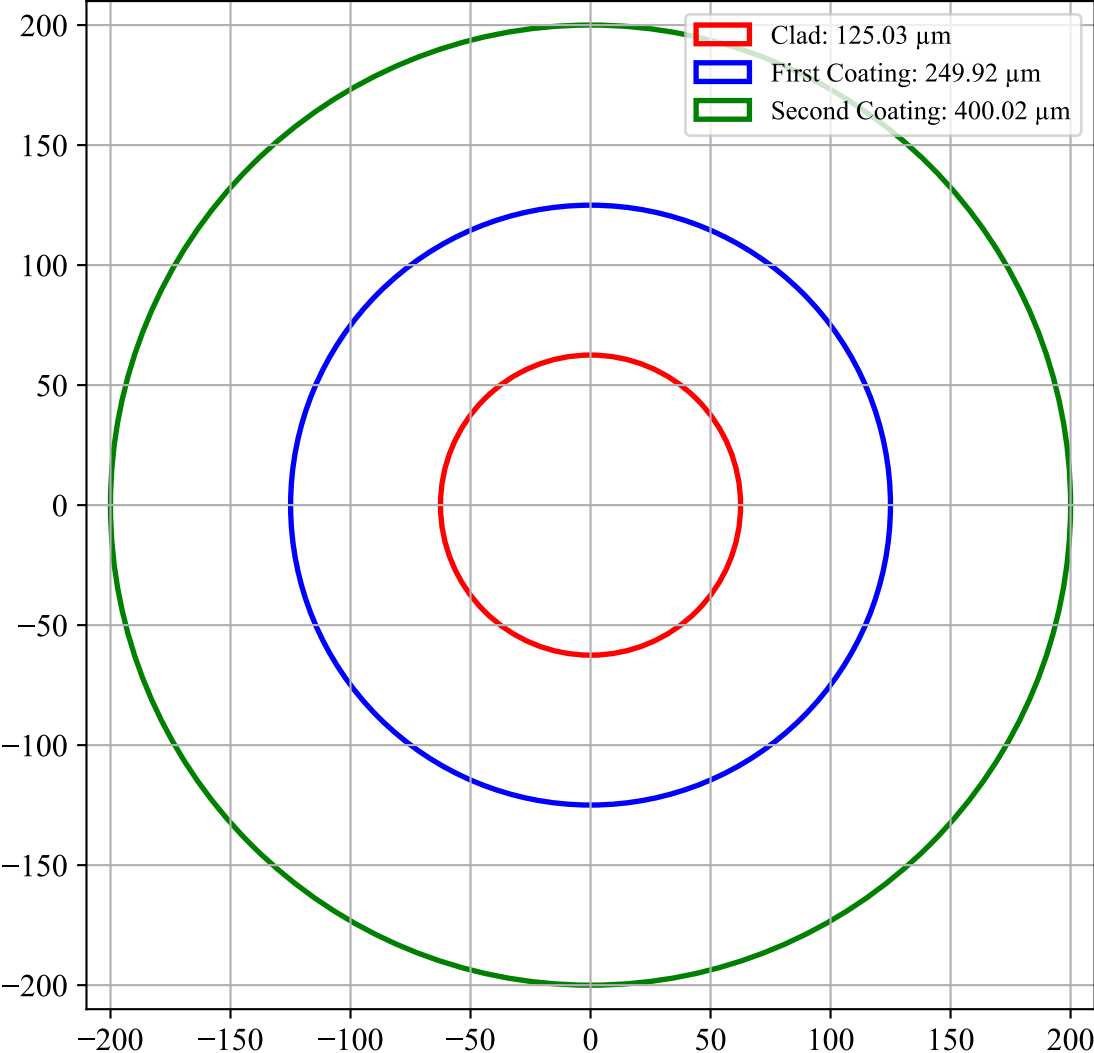


==== Good Fiber Zone 3 (Fiber Z: 3295.97 - 3444.29) ====

Tension (N): 2.56 ± 0.18
Clad Diameter (μm): 125.03 ± 0.40
First Coating Diameter (μm): 249.92 ± 1.02
Second Coating Diameter (μm): 400.02 ± 2.01
Furnace Temperature ($^{\circ}\text{C}$): 2097.92 ± 11.33
Cooling Rate ($^{\circ}\text{C/s}$): 15.41 ± 0.72
UV Power (W): 81.38 ± 6.64

====T&M Section====

New fiber name= _____
Core Diameter(μm) = _____
Clad Diameter(μm) = _____
First coating Diameter(μm) = _____
Second coating Diameter(μm) = _____
Birefringence= _____



Section B - Coating Report

Coating Report

Main Coating

Main Coating Die Diameter (μm): 150.0

Main Entry Die Diameter (μm): 160.0

Main Density (g/cm^3): 1.05

Main Coating: Coat A

Main Coating Temp ($^{\circ}\text{C}$): 48.0

Main Viscosity ($\text{mPa}\cdot\text{s}$): 1.066

Main Estimated Thickness (μm): 150.34

Secondary Coating

Secondary Coating Die Diameter (μm): 170.0

Secondary Entry Die Diameter (μm): 180.0

Secondary Density (g/cm^3): 1.12

Secondary Coating: Coat B

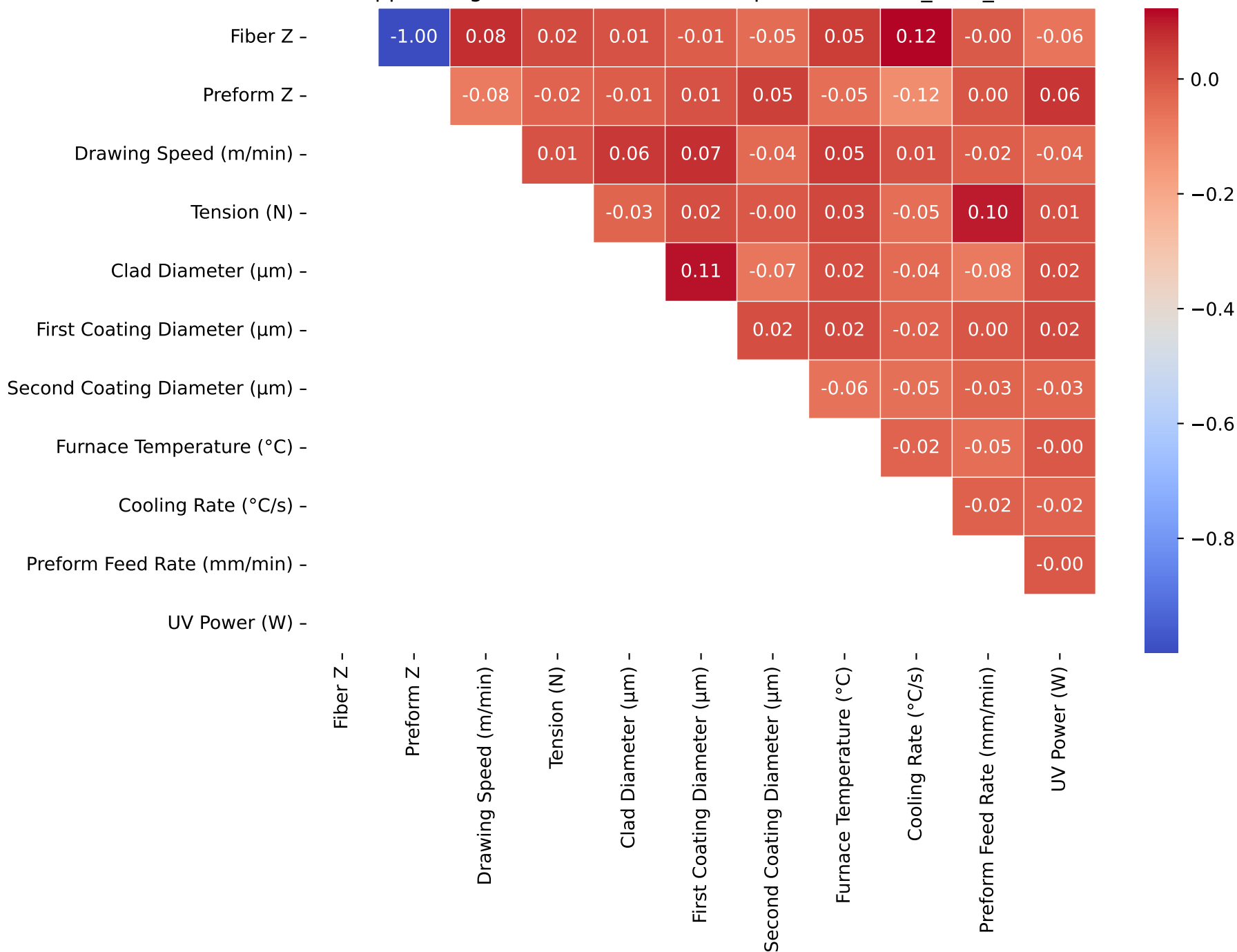
Secondary Coating Temp ($^{\circ}\text{C}$): 44.0

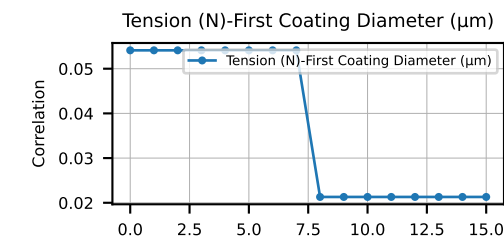
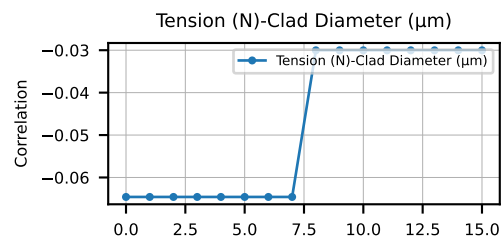
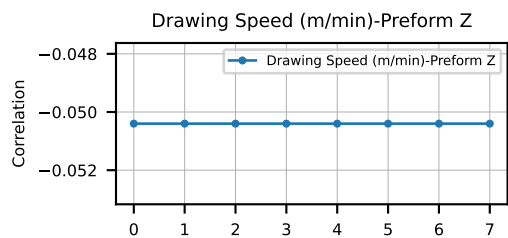
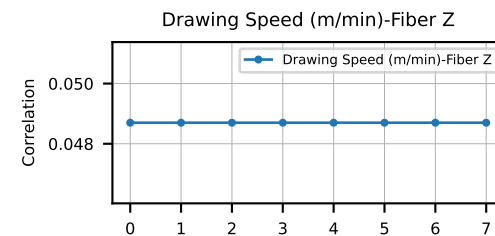
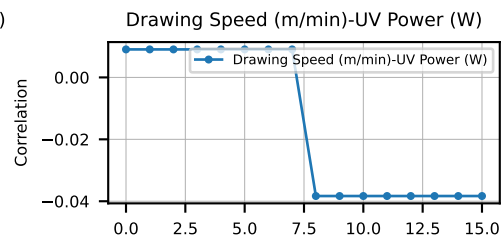
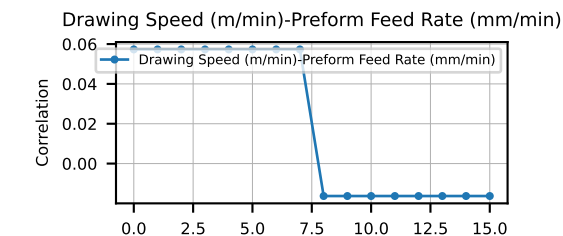
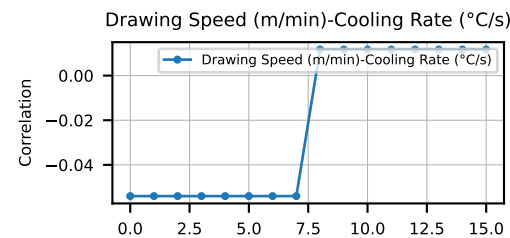
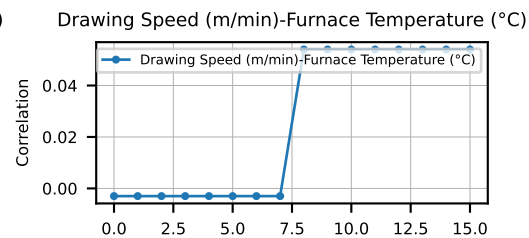
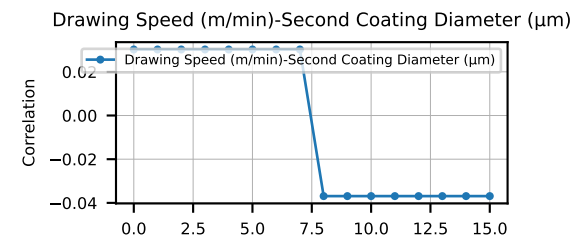
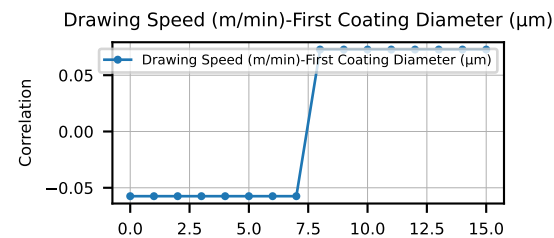
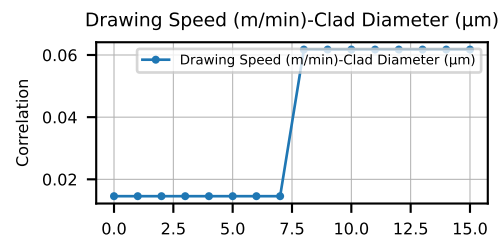
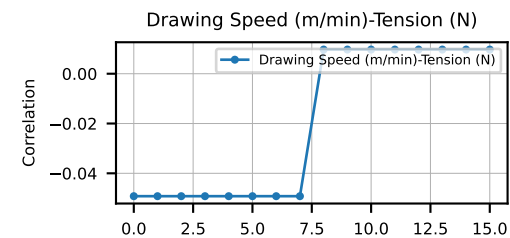
Secondary Viscosity ($\text{mPa}\cdot\text{s}$): 1.398

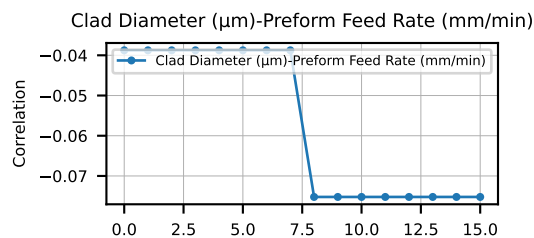
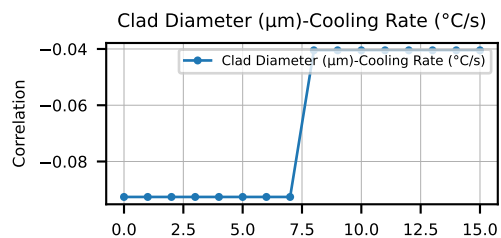
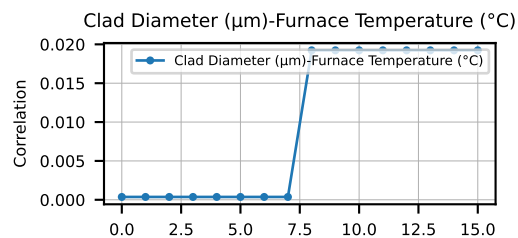
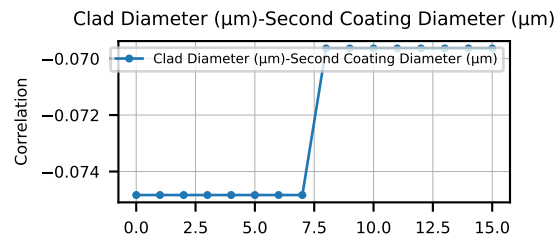
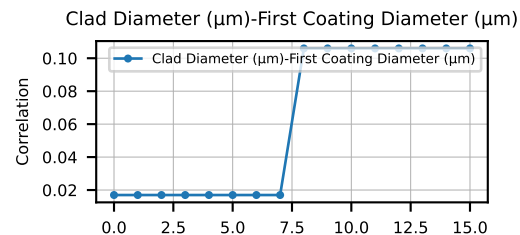
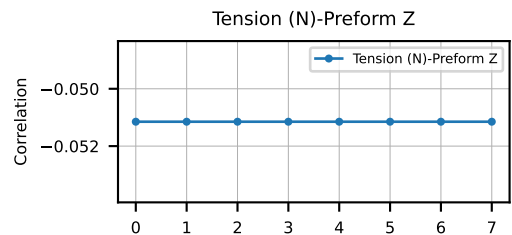
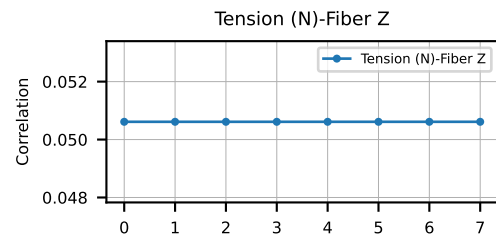
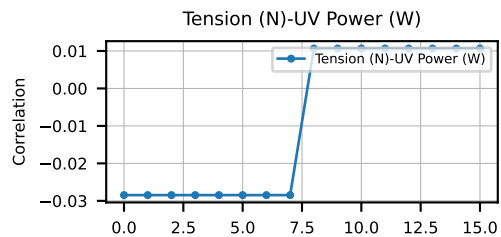
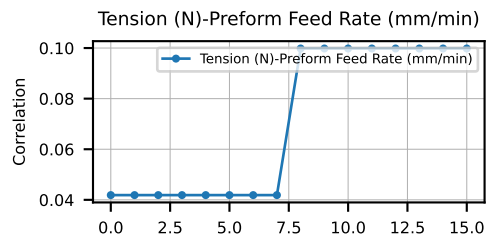
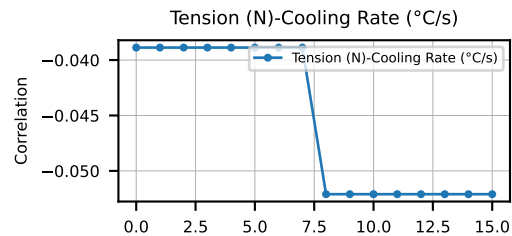
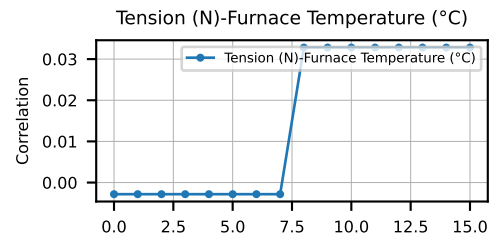
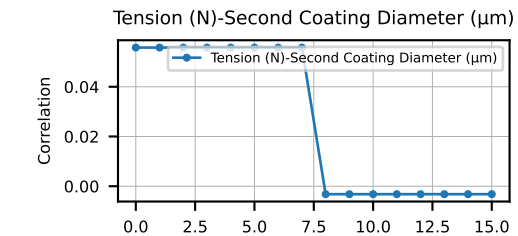
Secondary Estimated Thickness (μm): 175.75

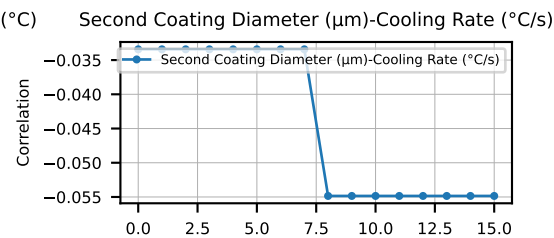
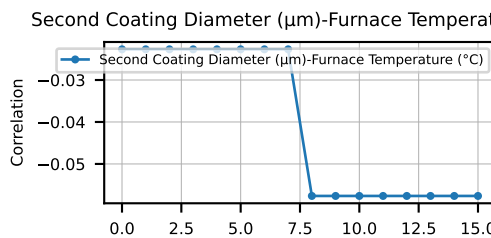
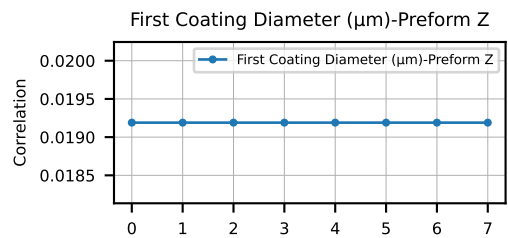
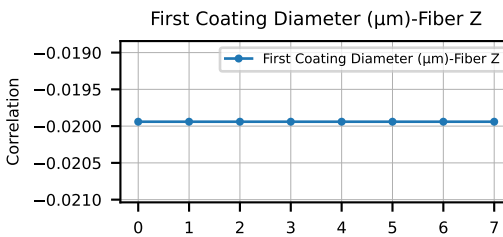
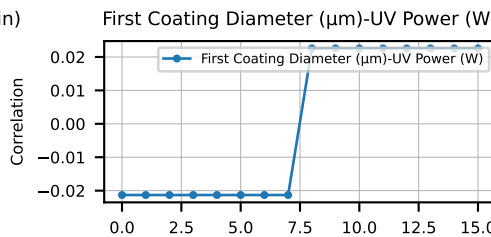
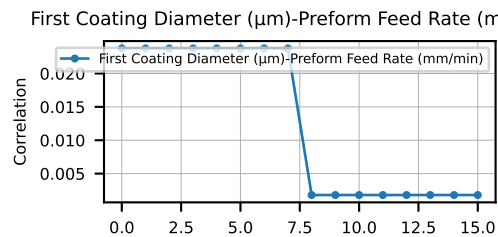
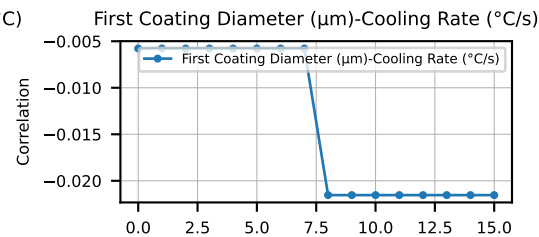
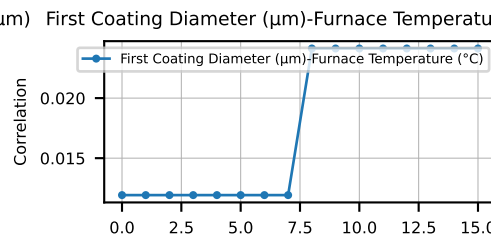
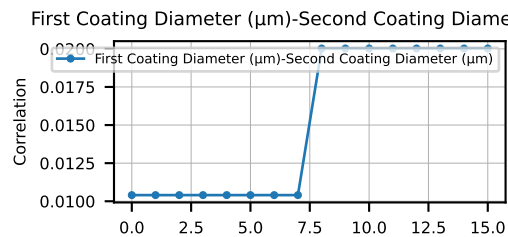
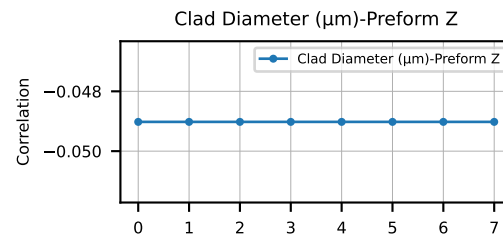
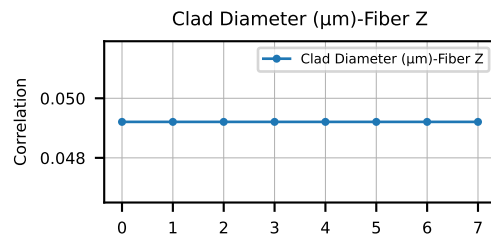
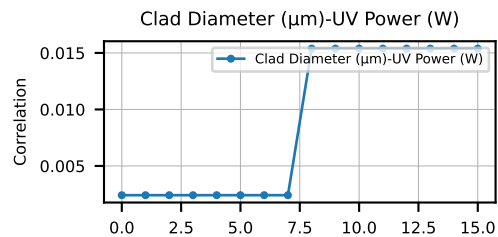
Section C - Tower Performance Analysis

Upper Diagonal Correlation Heatmap for simulated fiber_data

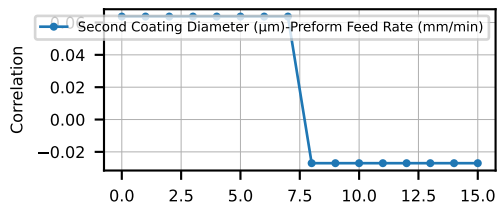




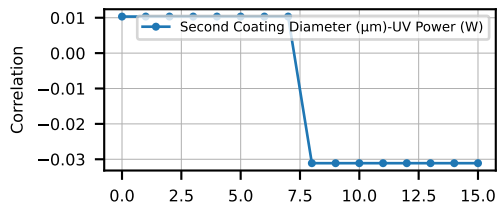




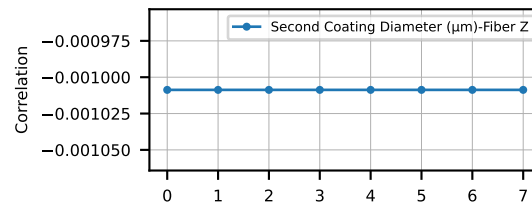
Second Coating Diameter (μm)-Preform Feed Rate (mm/min)



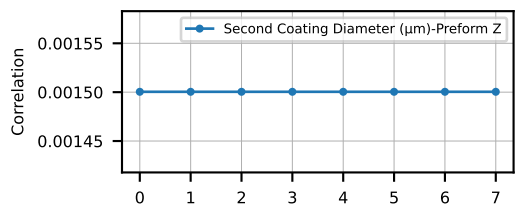
Second Coating Diameter (μm)-UV Power (W)



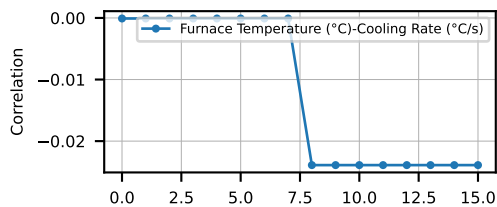
Second Coating Diameter (μm)-Fiber Z



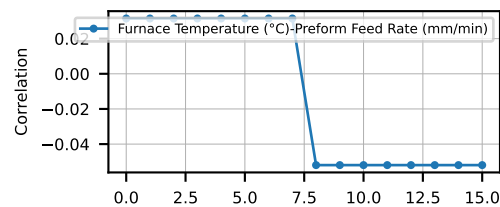
Second Coating Diameter (μm)-Preform Z



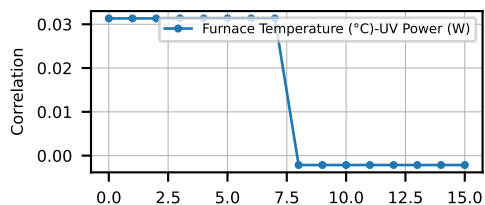
Furnace Temperature ($^{\circ}\text{C}$)-Cooling Rate ($^{\circ}\text{C}/\text{s}$)



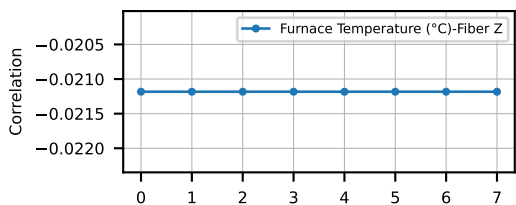
Furnace Temperature ($^{\circ}\text{C}$)-Preform Feed Rate (mm/min)



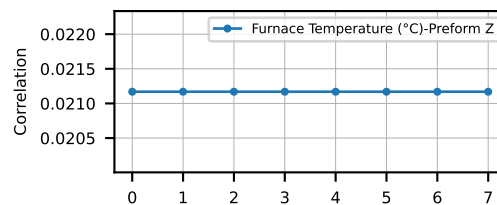
Furnace Temperature ($^{\circ}\text{C}$)-UV Power (W)



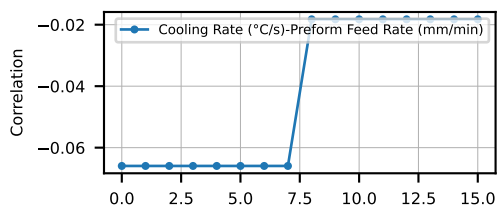
Furnace Temperature ($^{\circ}\text{C}$)-Fiber Z



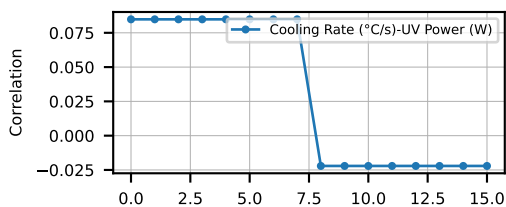
Furnace Temperature ($^{\circ}\text{C}$)-Preform Z



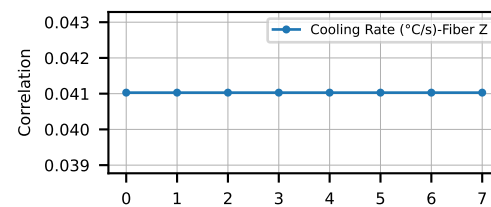
Cooling Rate ($^{\circ}\text{C}/\text{s}$)-Preform Feed Rate (mm/min)

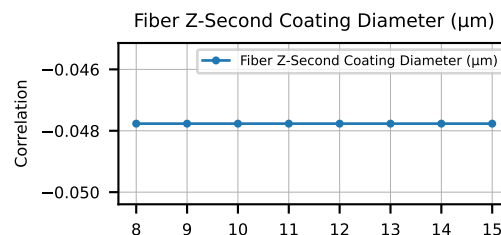
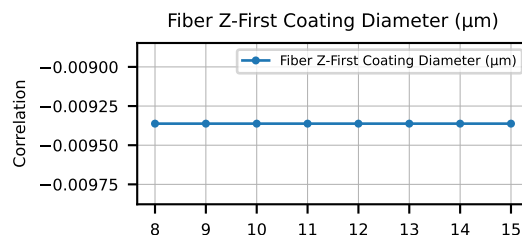
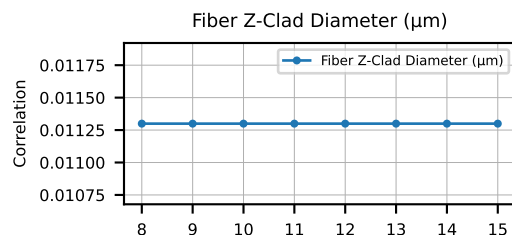
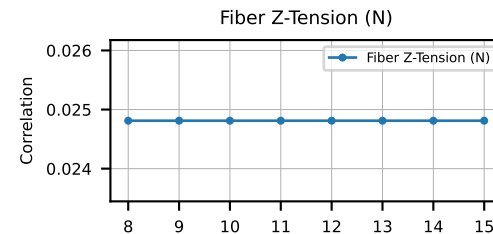
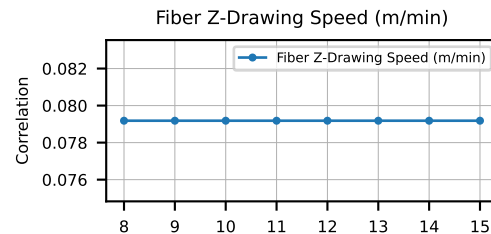
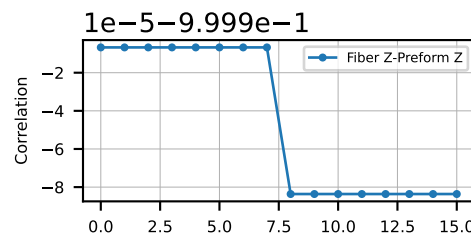
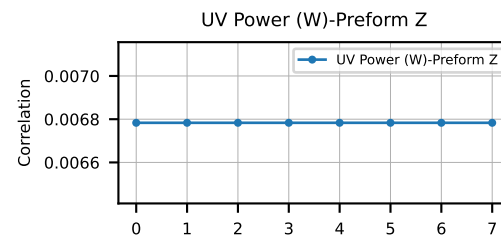
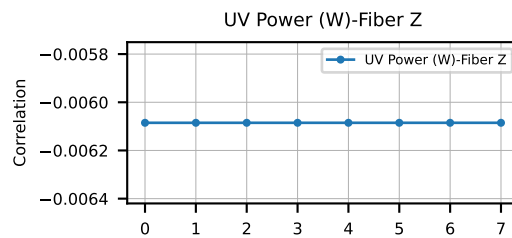
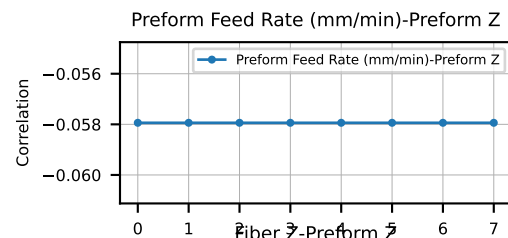
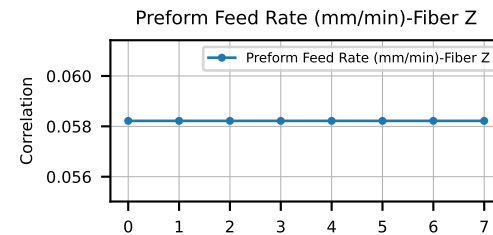
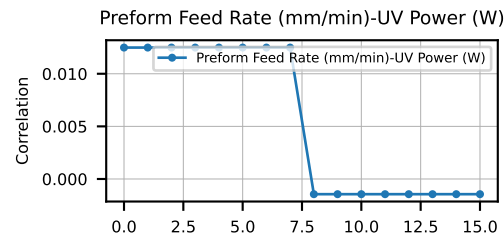
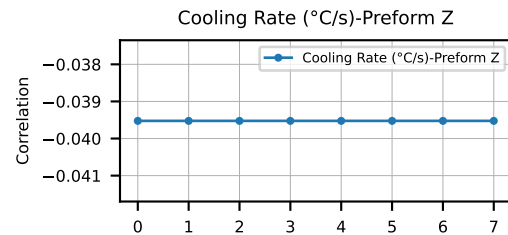


Cooling Rate ($^{\circ}\text{C}/\text{s}$)-UV Power (W)

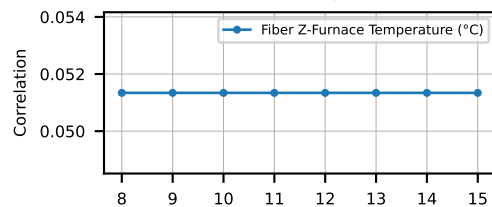


Cooling Rate ($^{\circ}\text{C}/\text{s}$)-Fiber Z

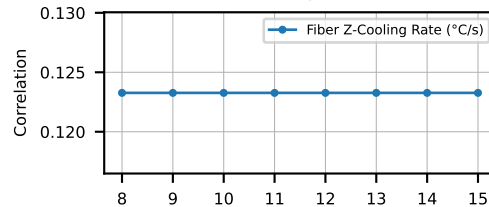




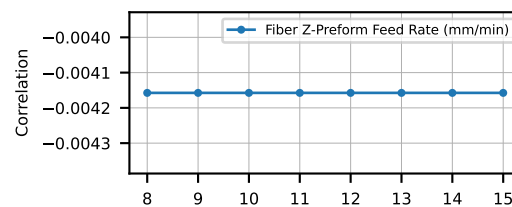
Fiber Z-Furnace Temperature (°C)



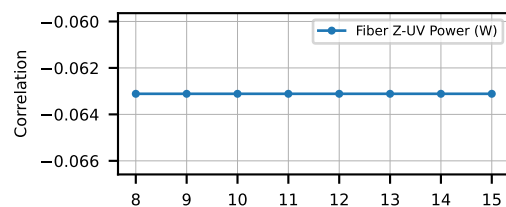
Fiber Z-Cooling Rate (°C/s)



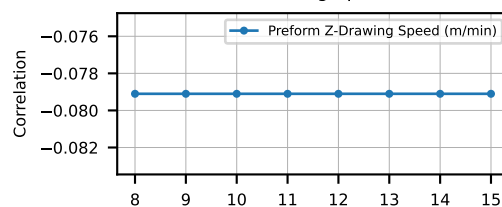
Fiber Z-Preform Feed Rate (mm/min)



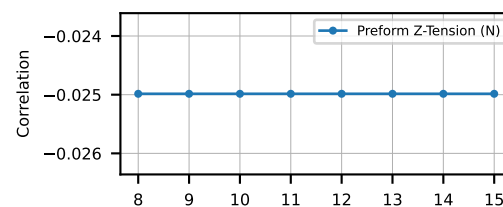
Fiber Z-UV Power (W)



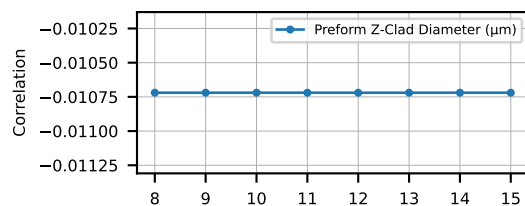
Preform Z-Drawing Speed (m/min)



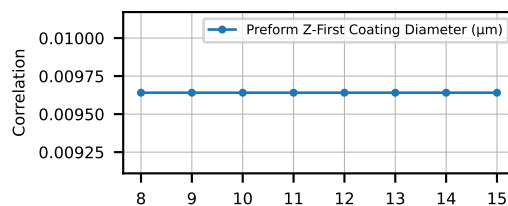
Preform Z-Tension (N)



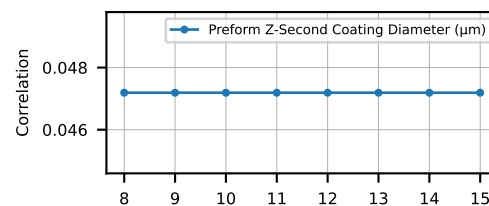
Preform Z-Clad Diameter (μm)



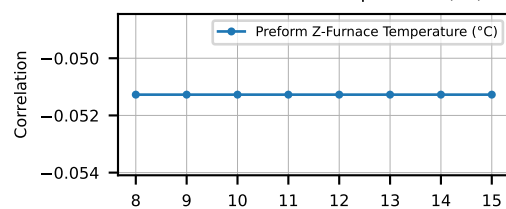
Preform Z-First Coating Diameter (μm)



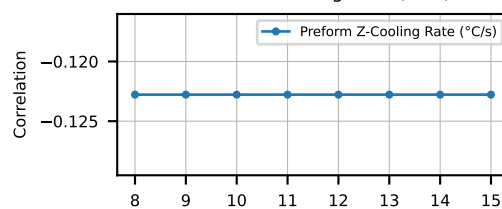
Preform Z-Second Coating Diameter (μm)



Preform Z-Furnace Temperature (°C)



Preform Z-Cooling Rate (°C/s)



Preform Z-Preform Feed Rate (mm/min)

