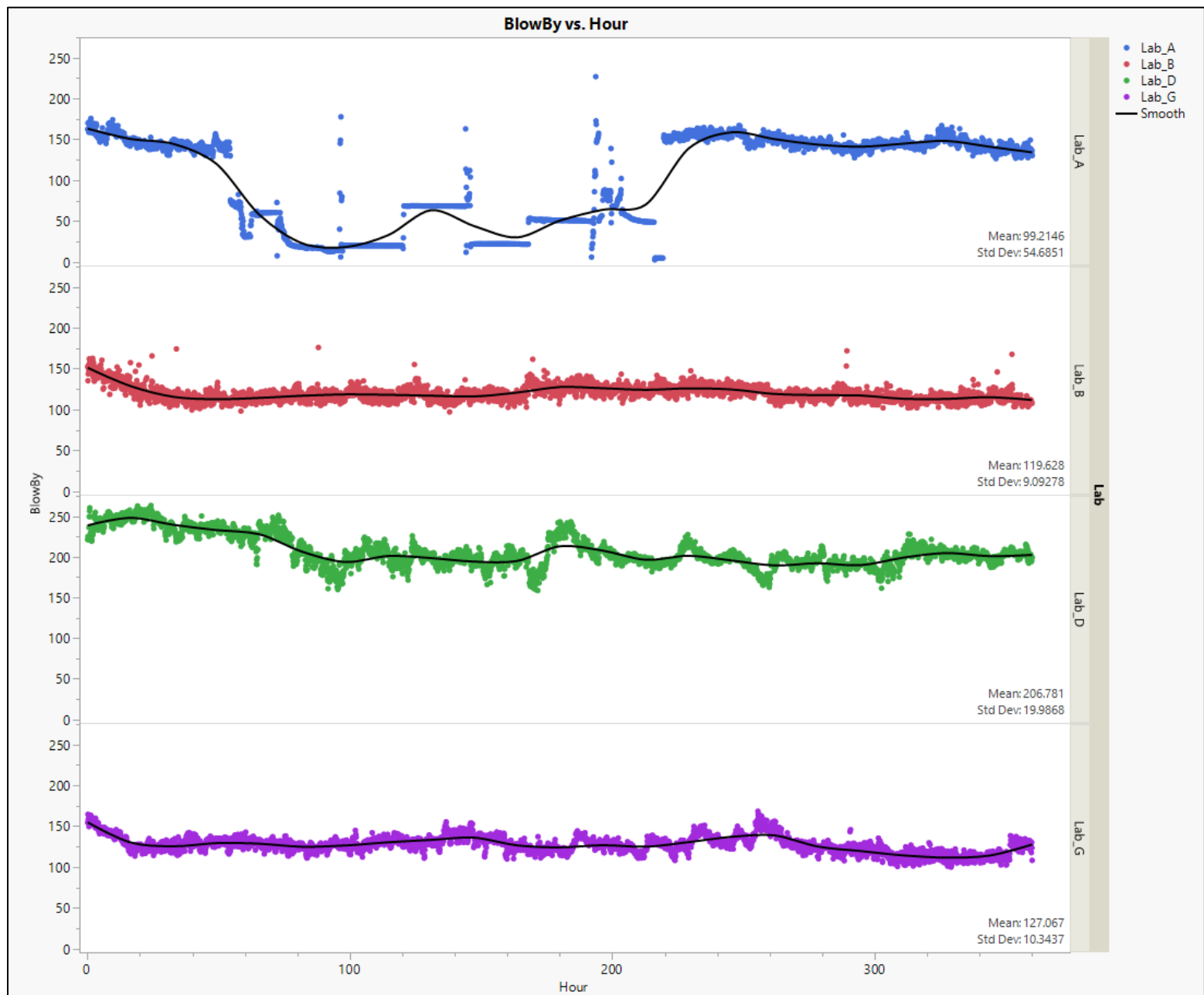


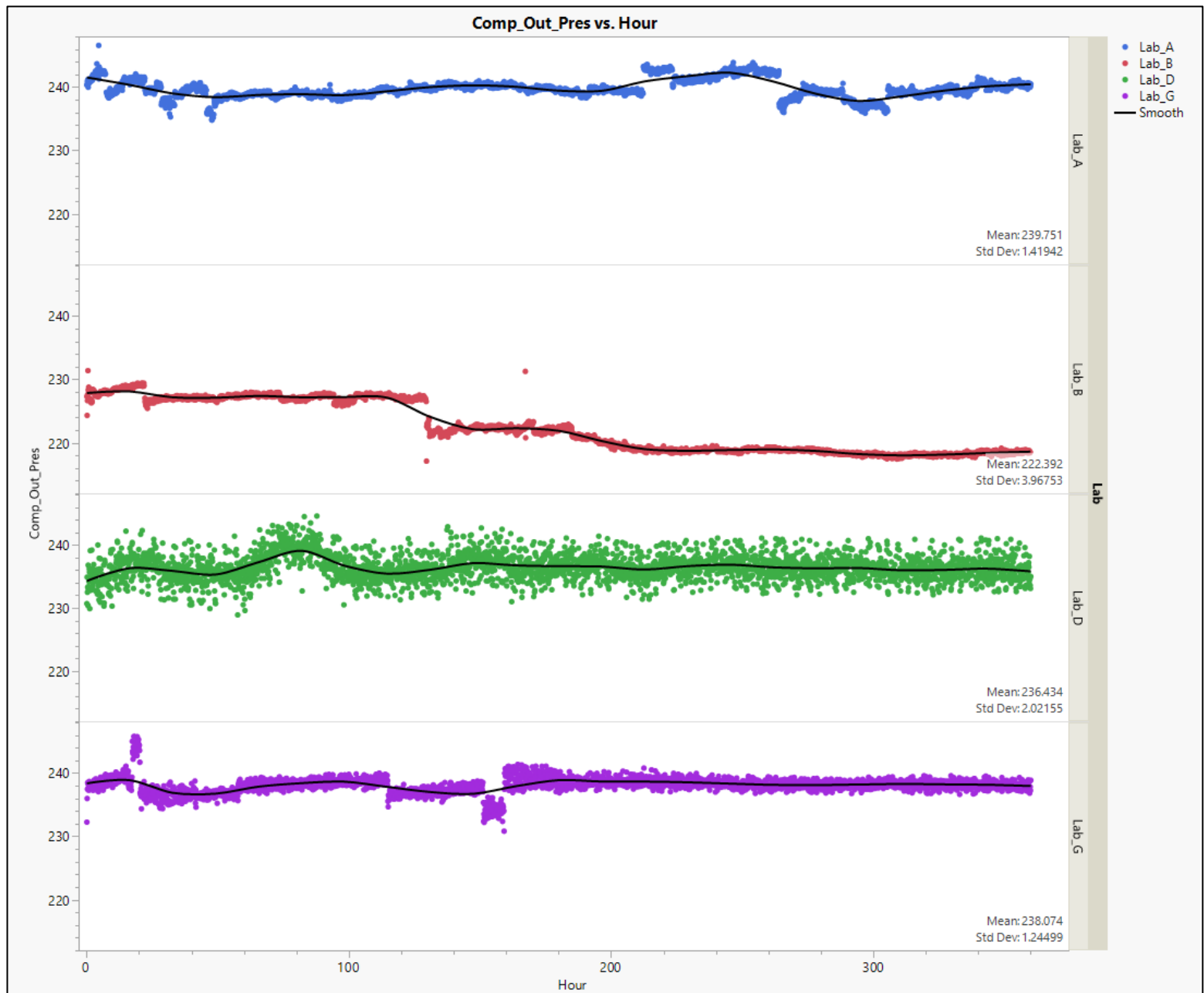
T13 Operational Data Plots

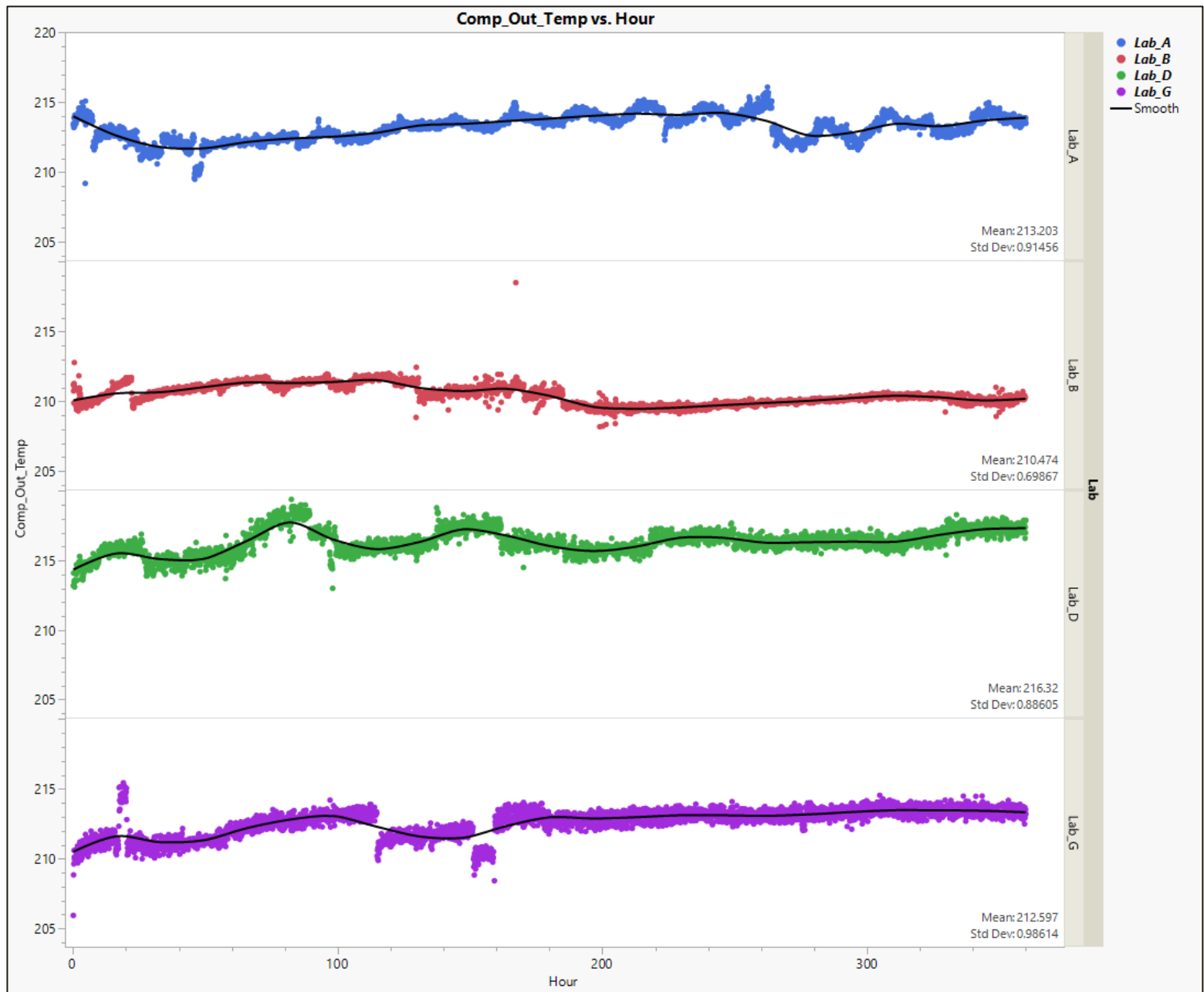
(Exclusively for R0 823-1 Reblend - Test Result Data)

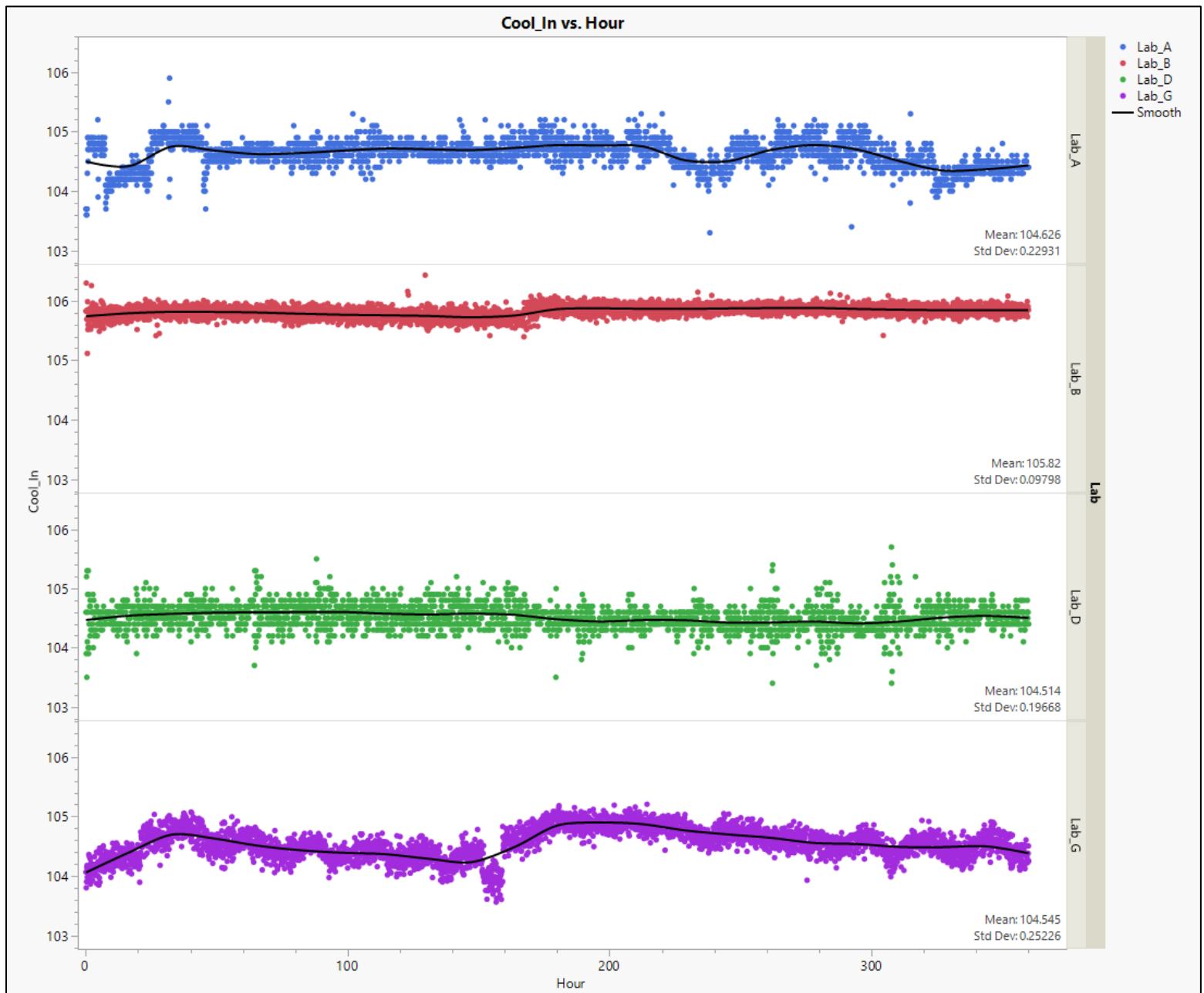
Todd Dvorak

May 23, 2023

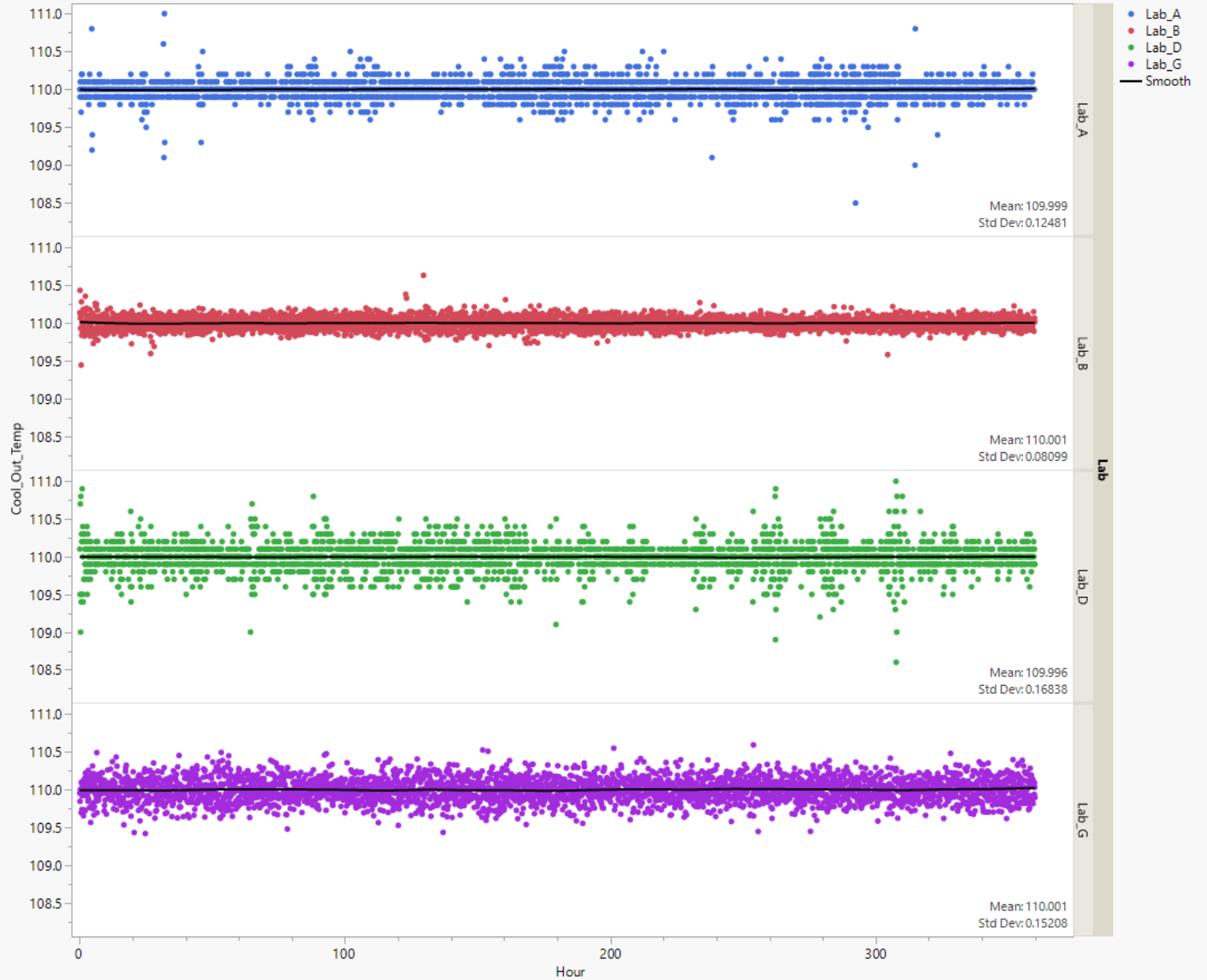


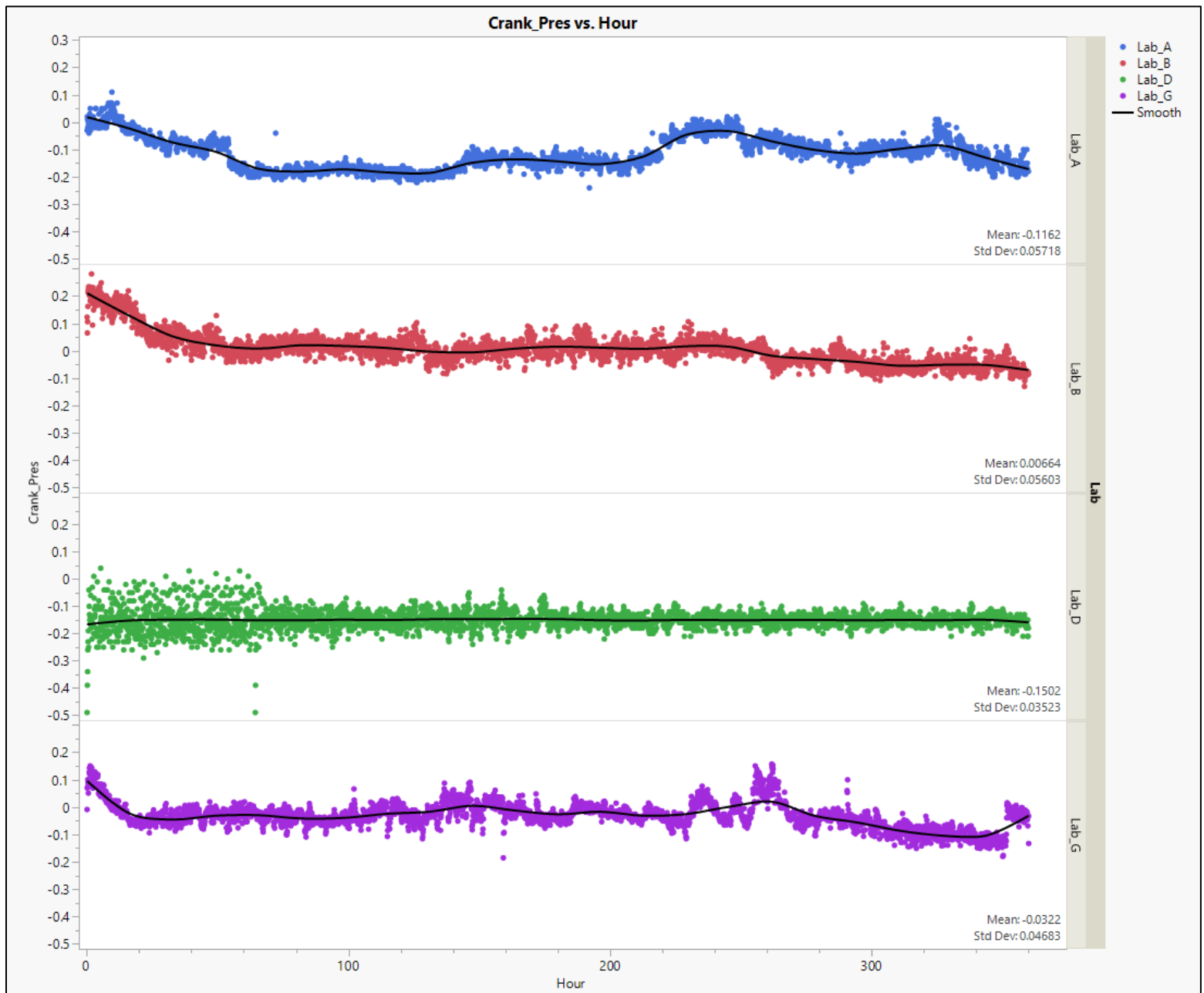


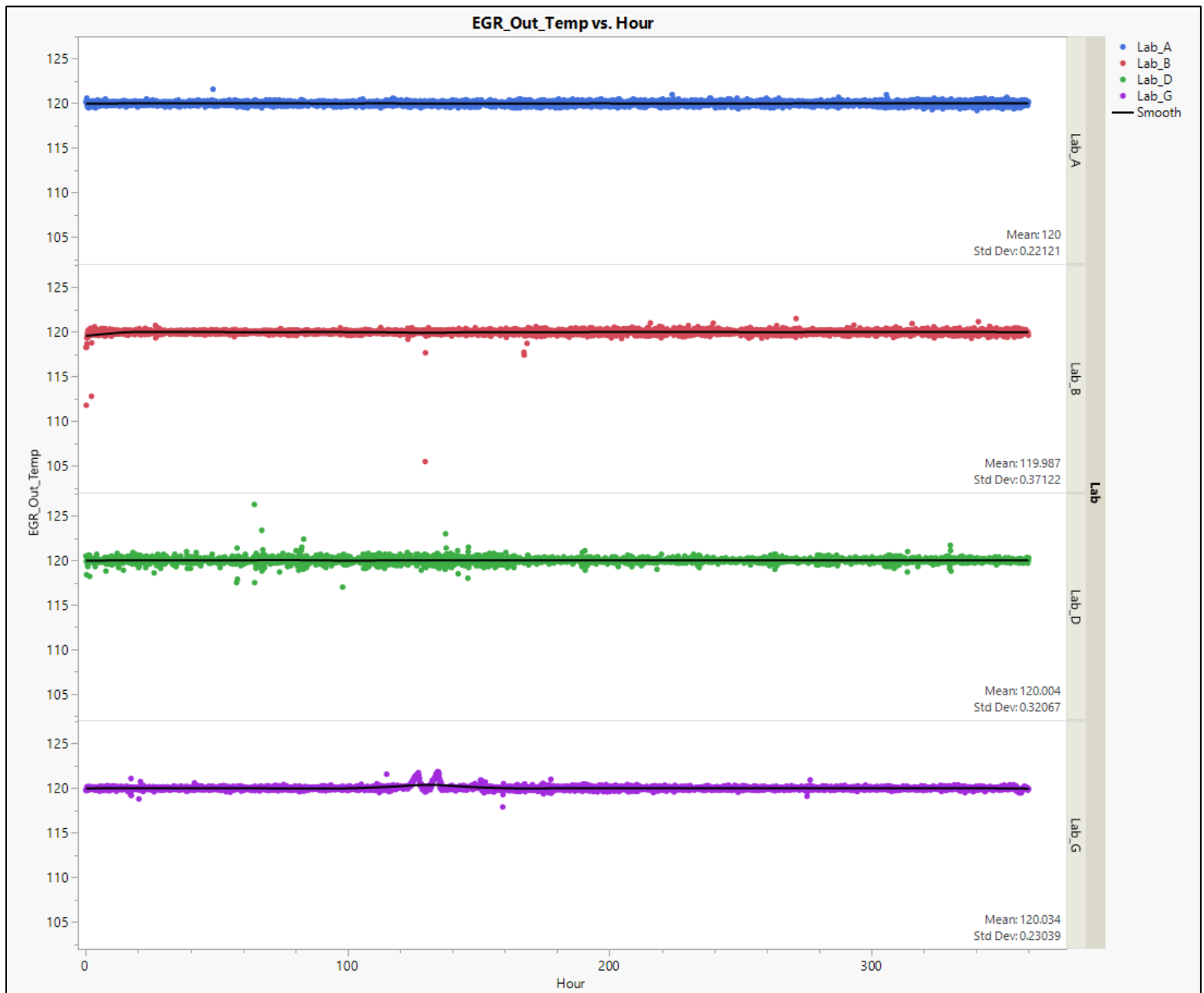


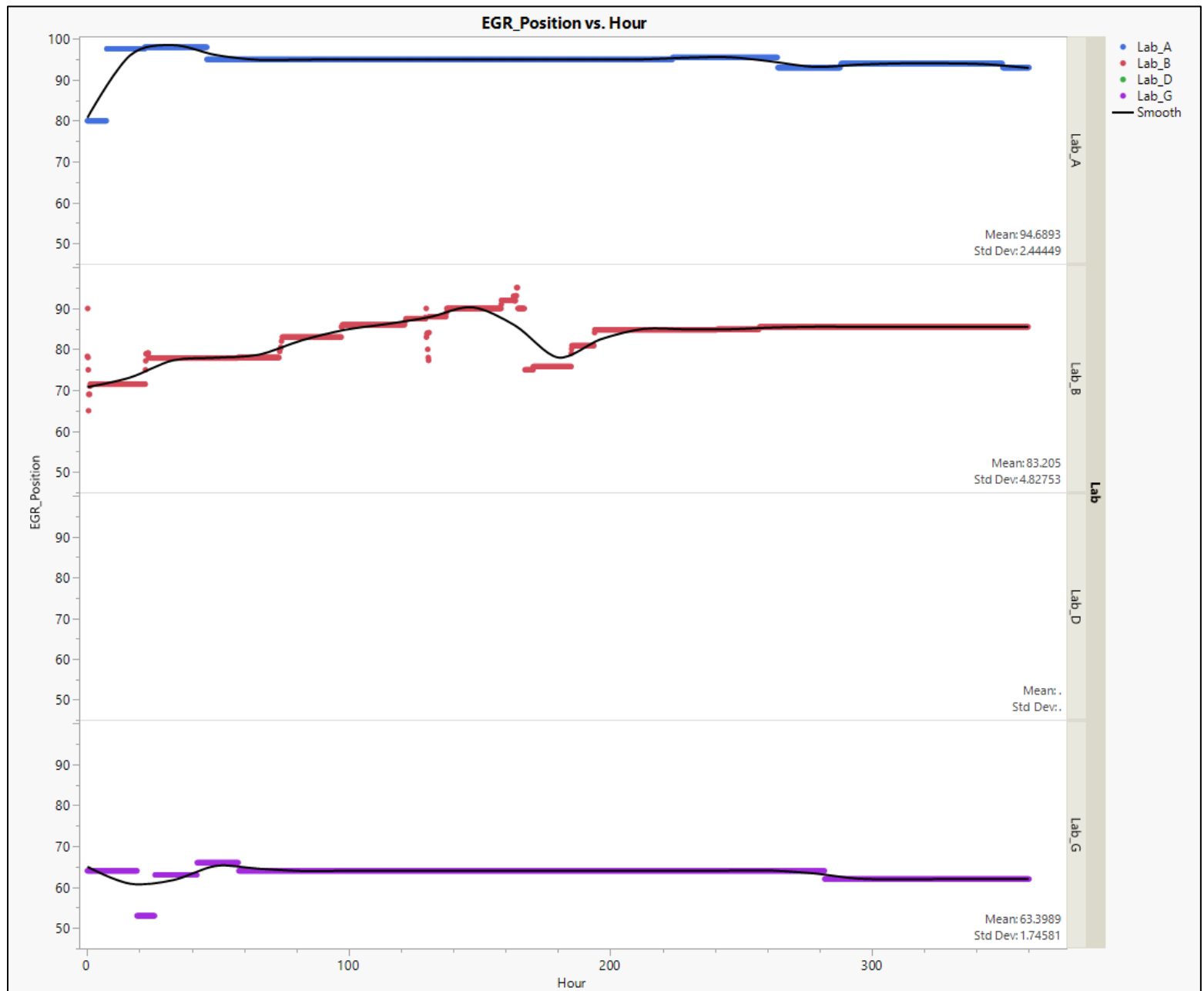


Cool_Out_Temp vs. Hour

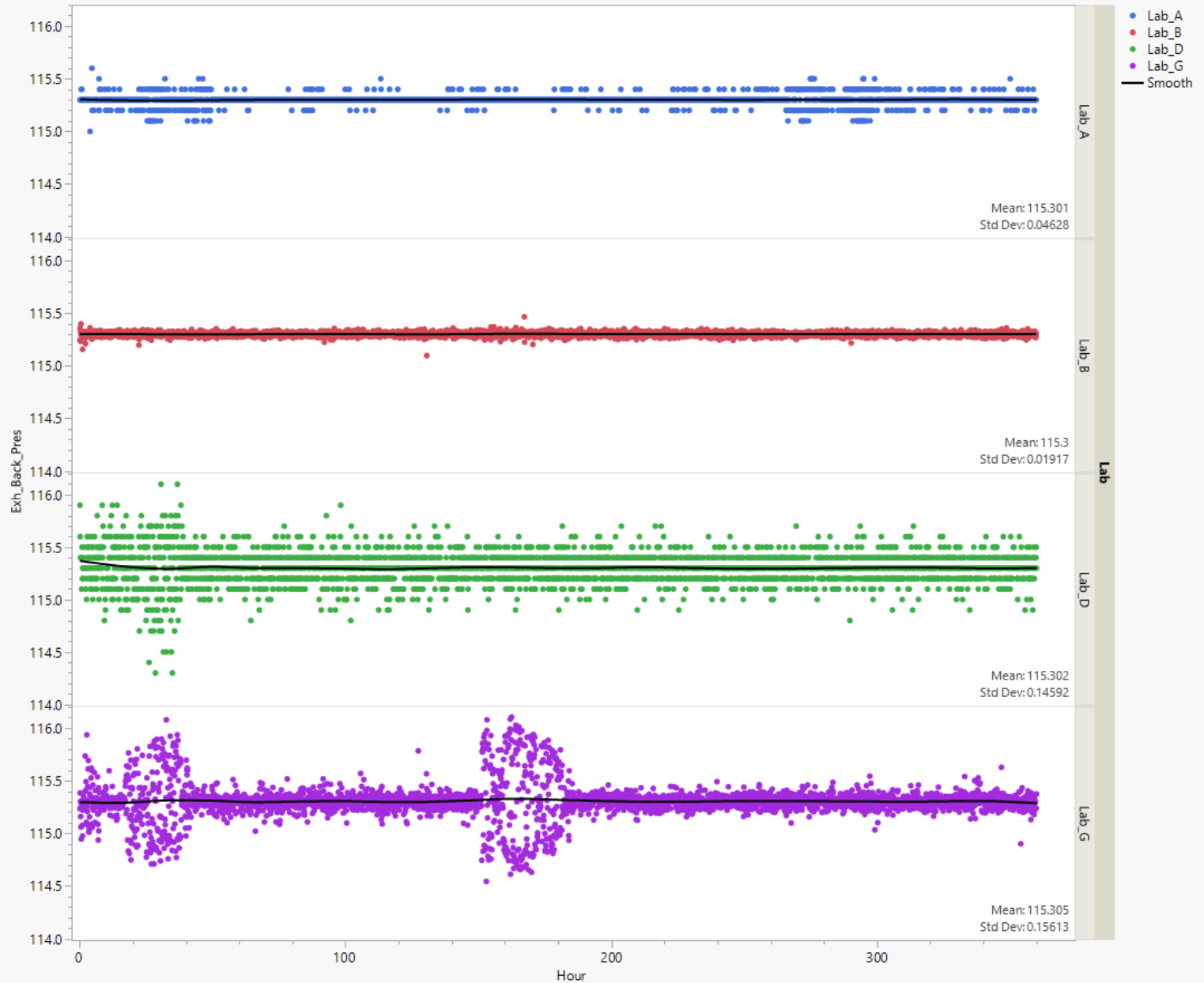


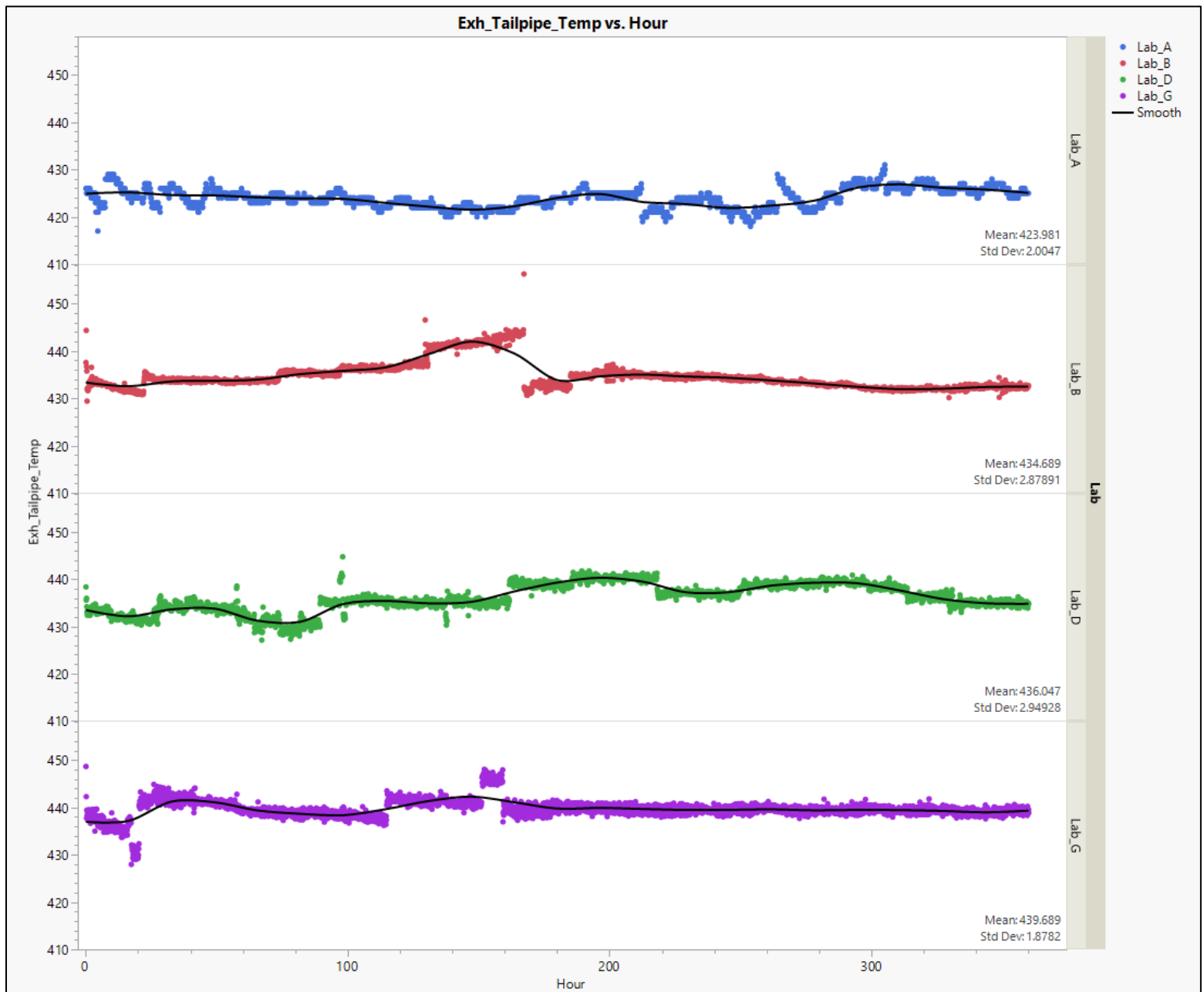


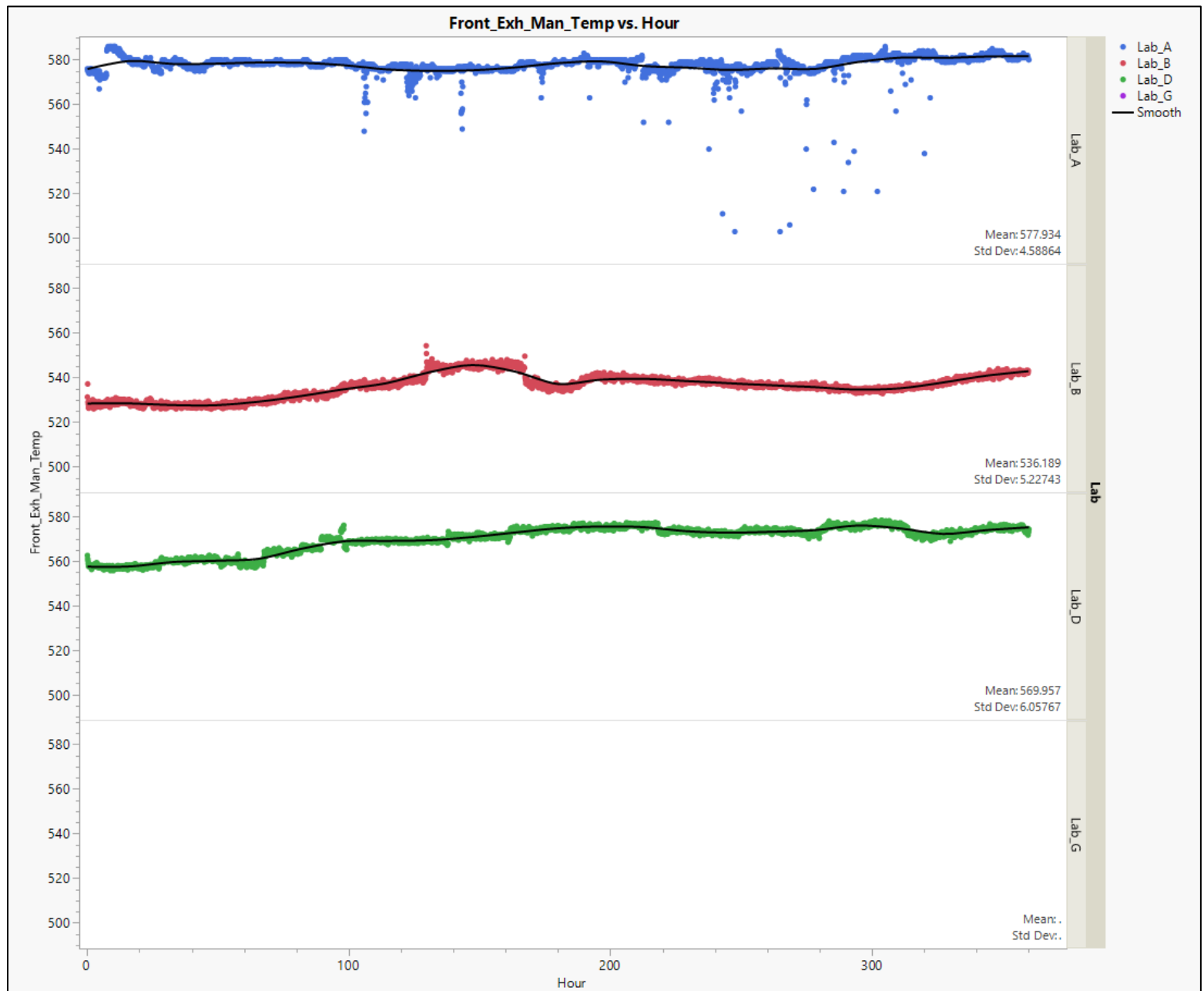




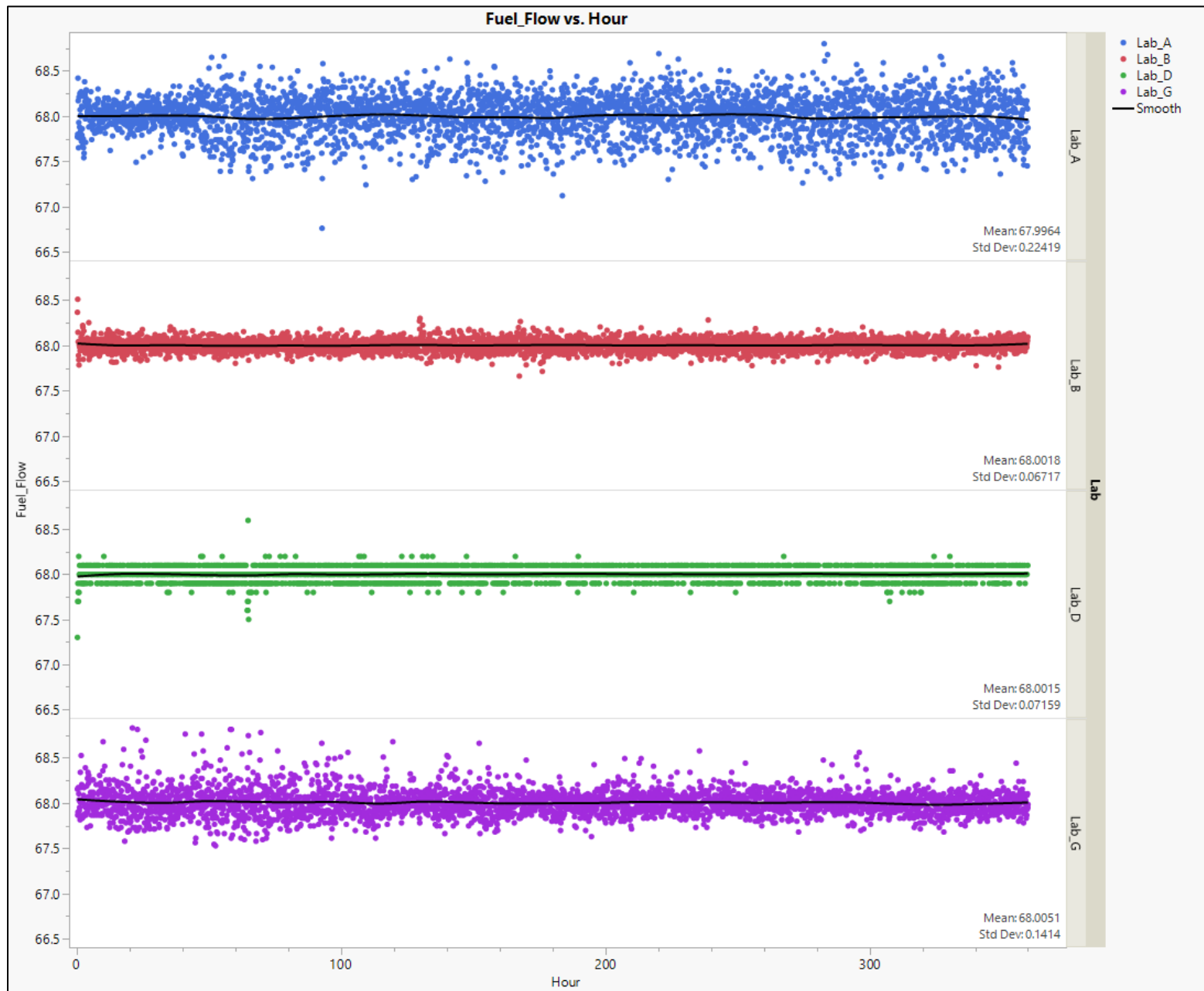
Exh_Back_Pres vs. Hour

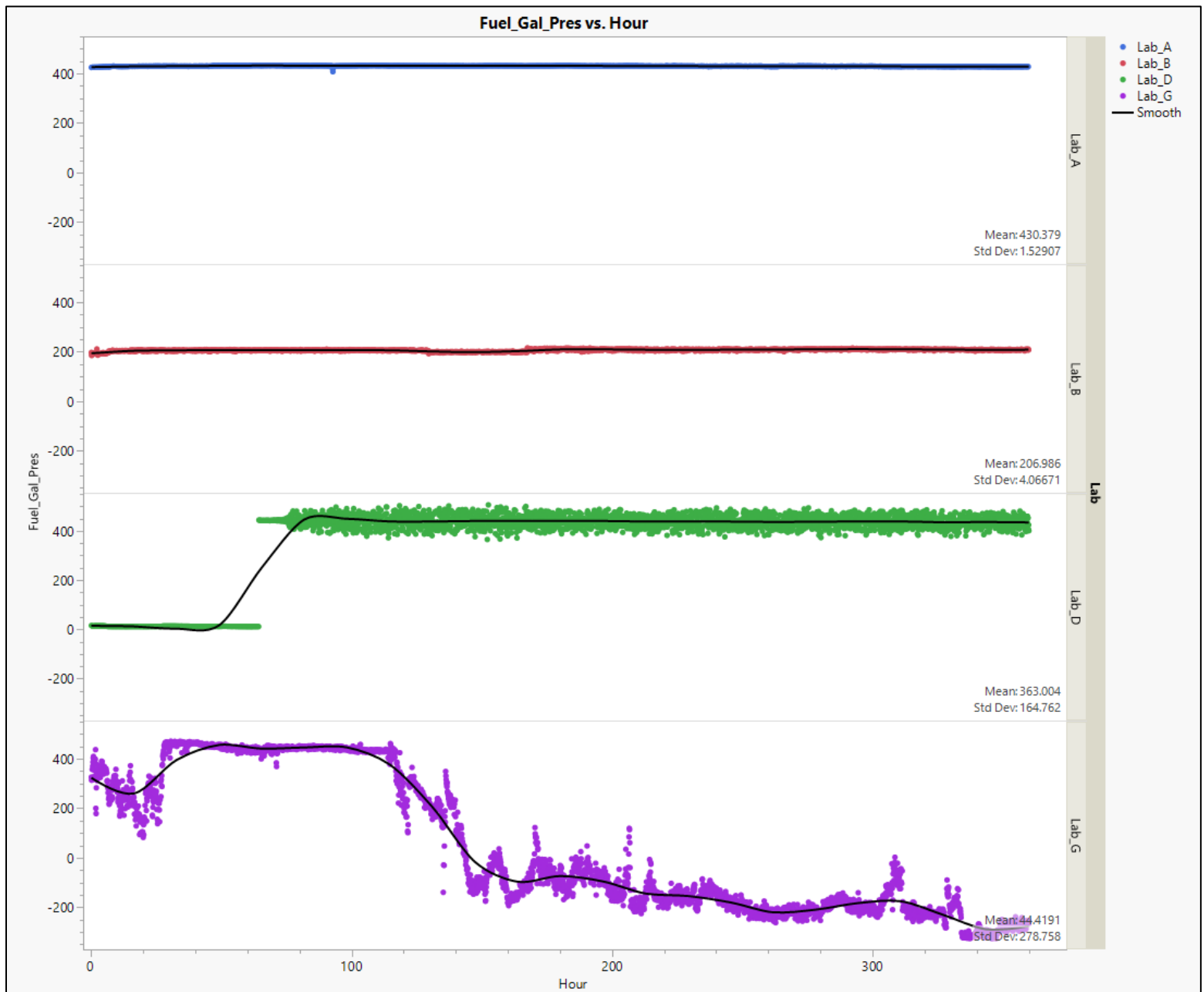


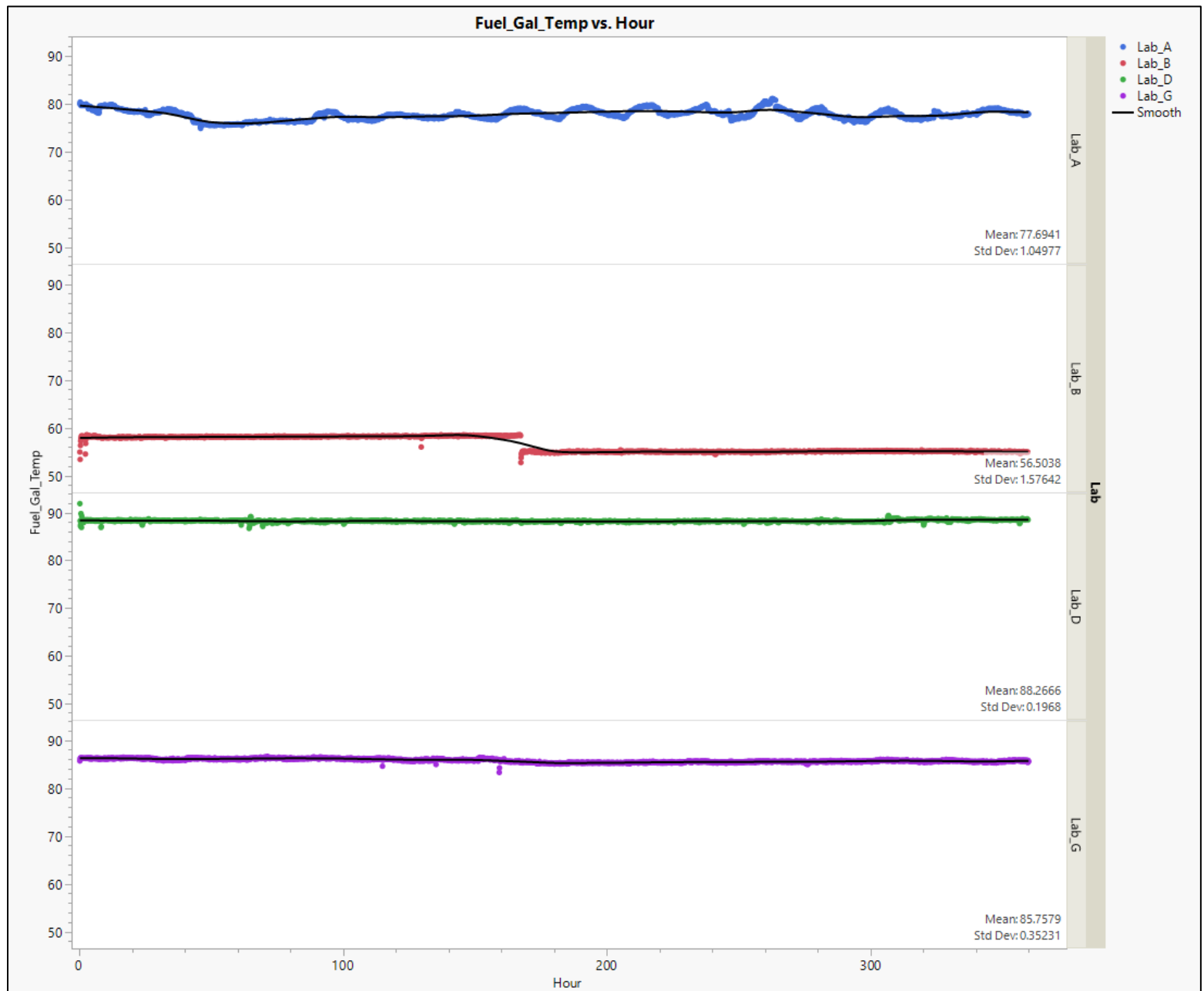


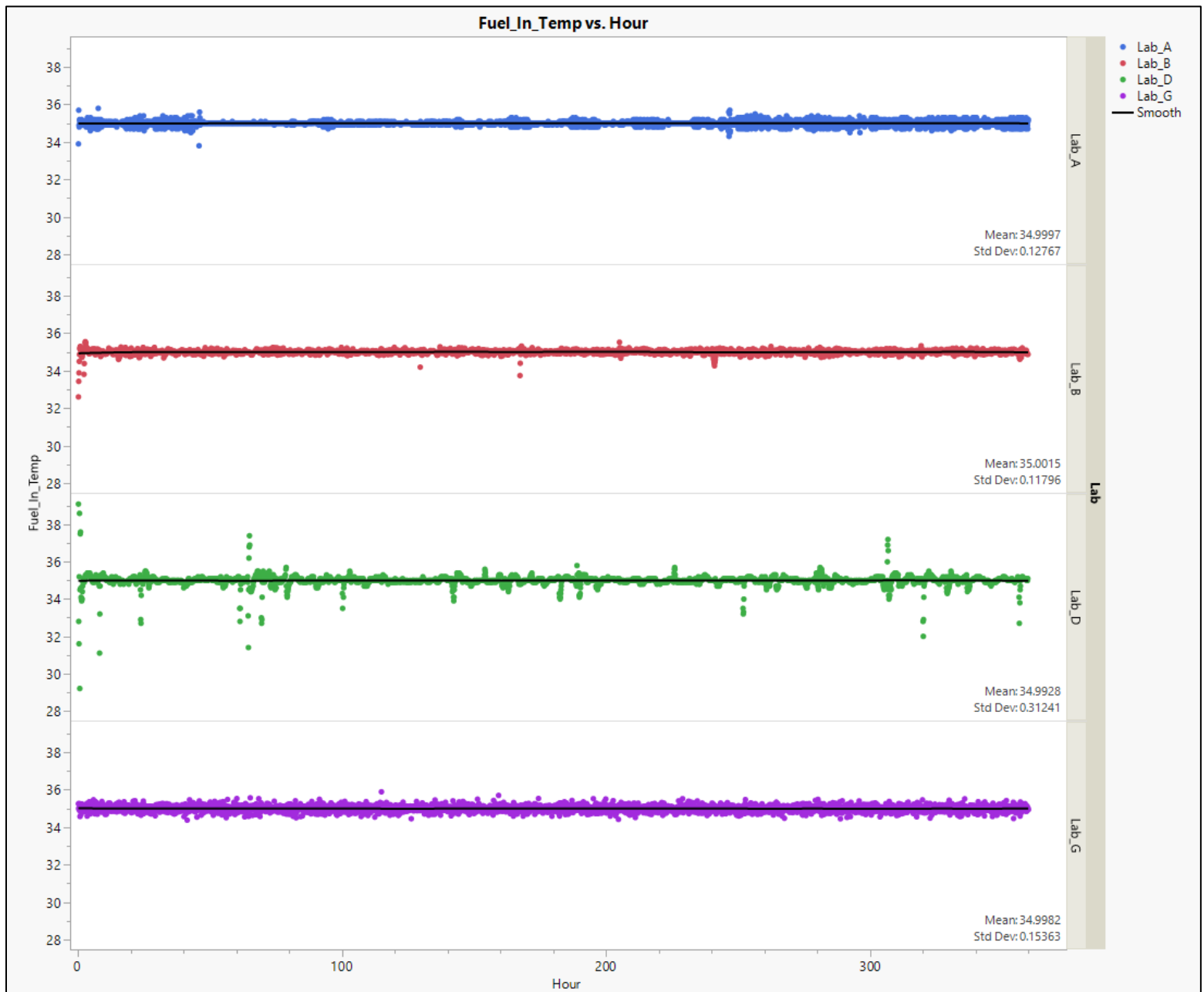


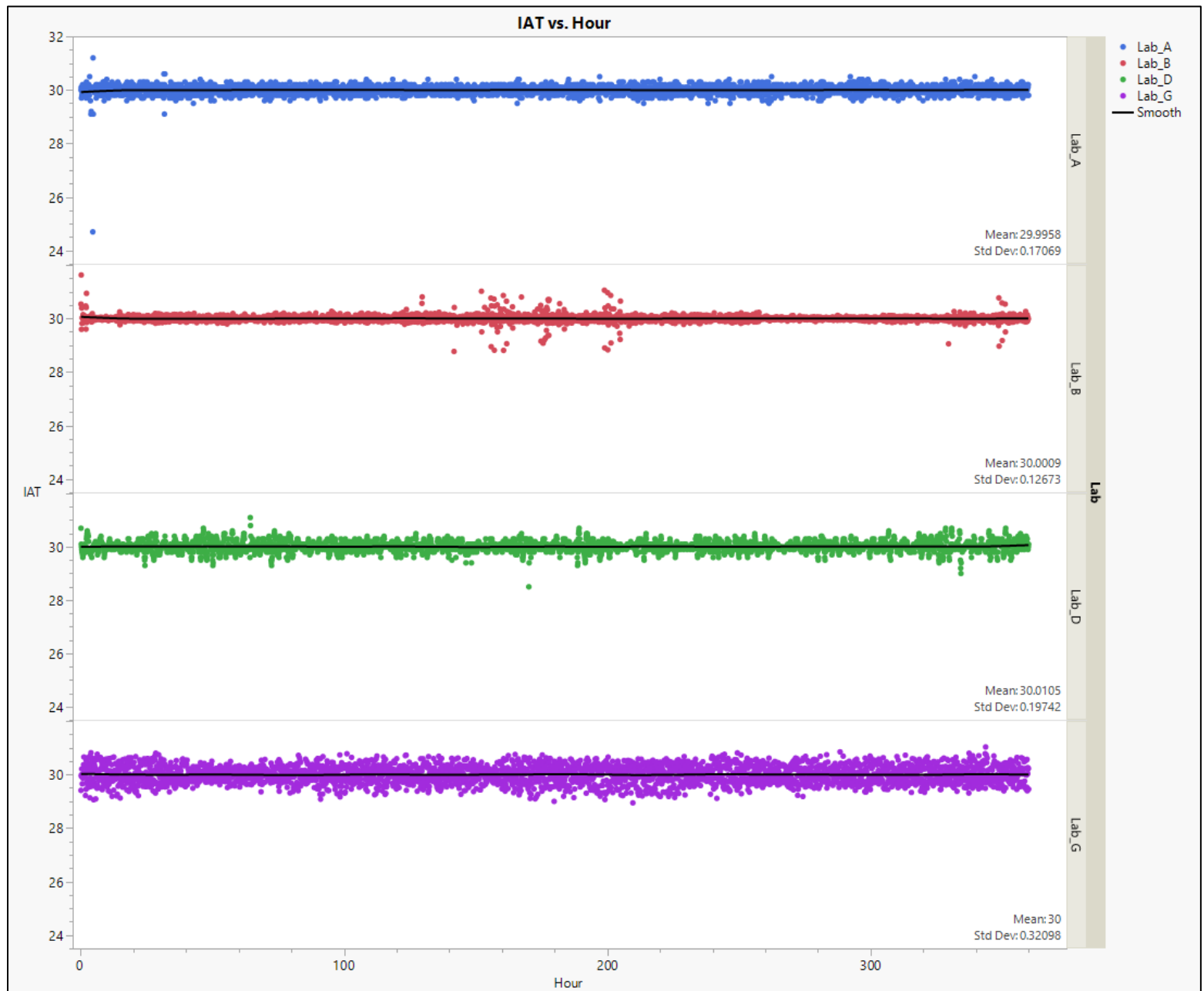
Spurious results omitted from plot (~ 3 results) to properly scale the data







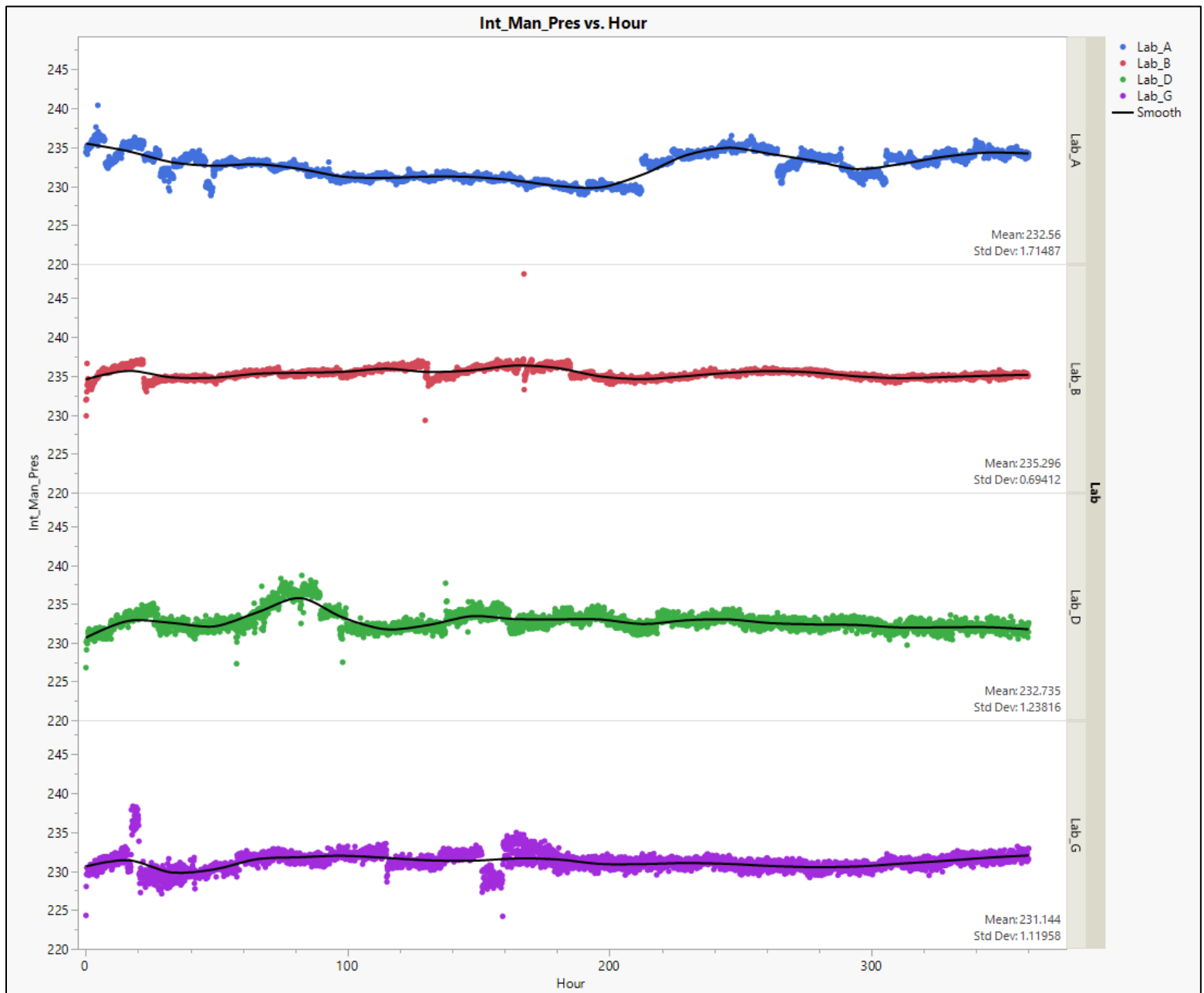


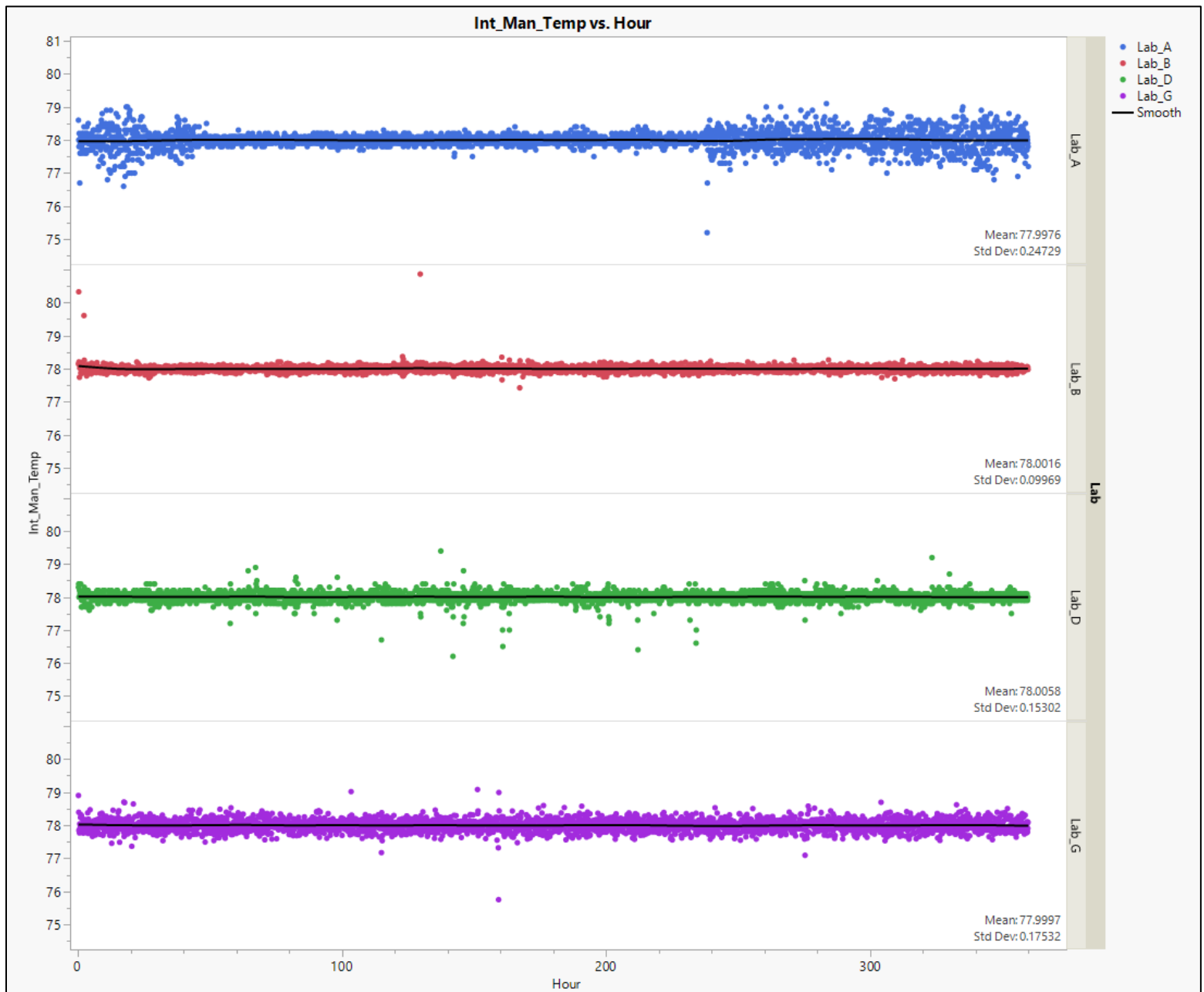


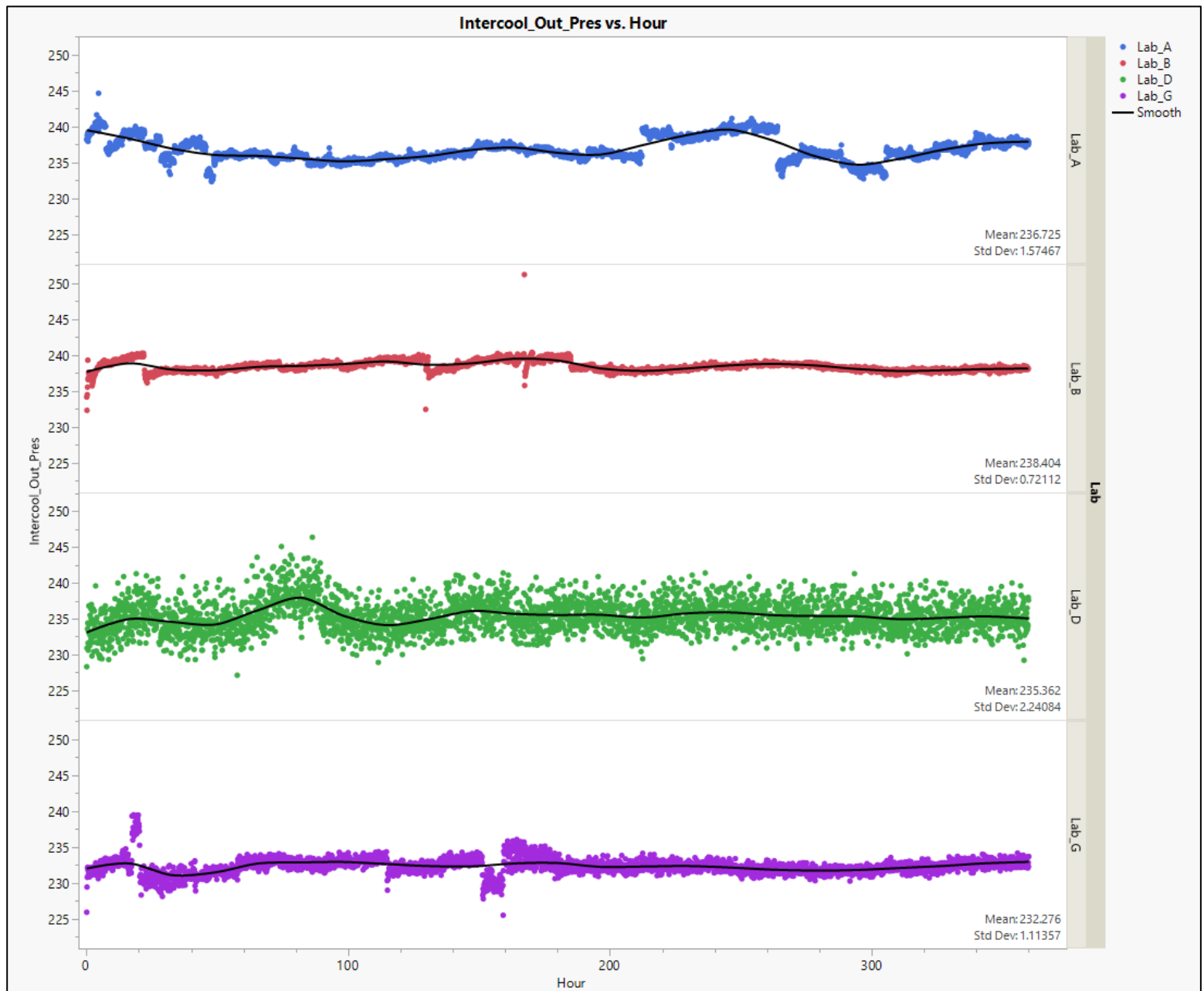




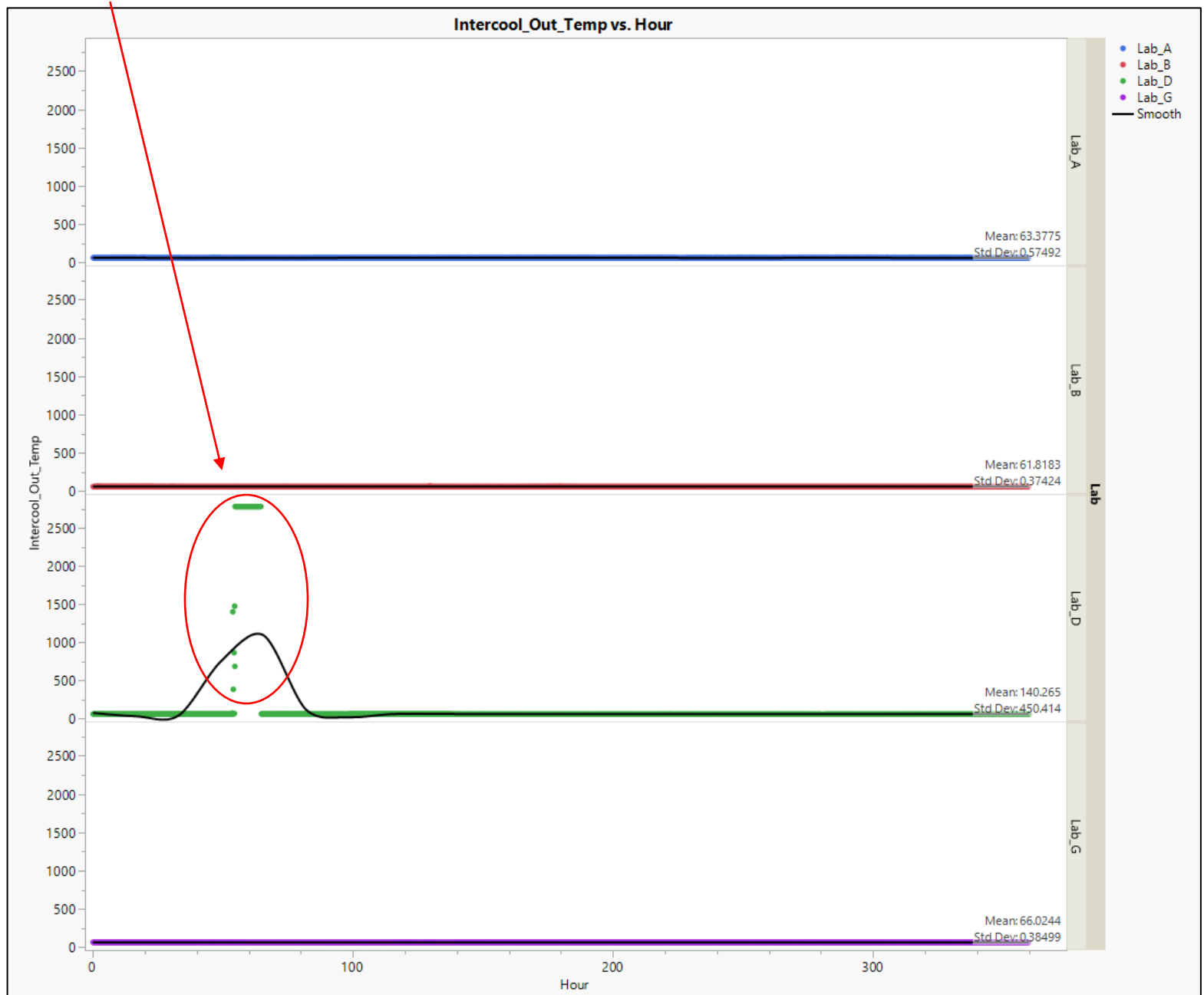




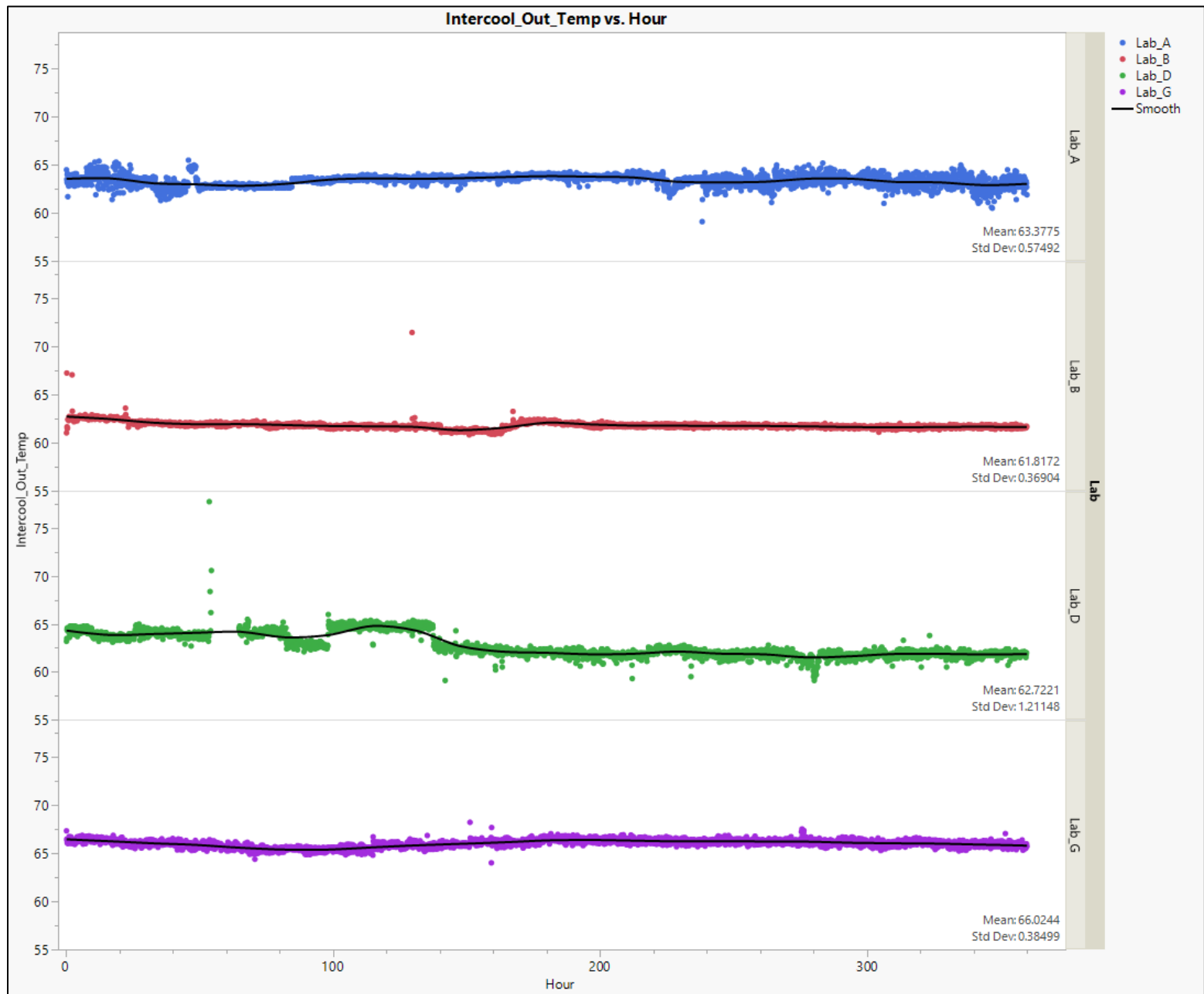


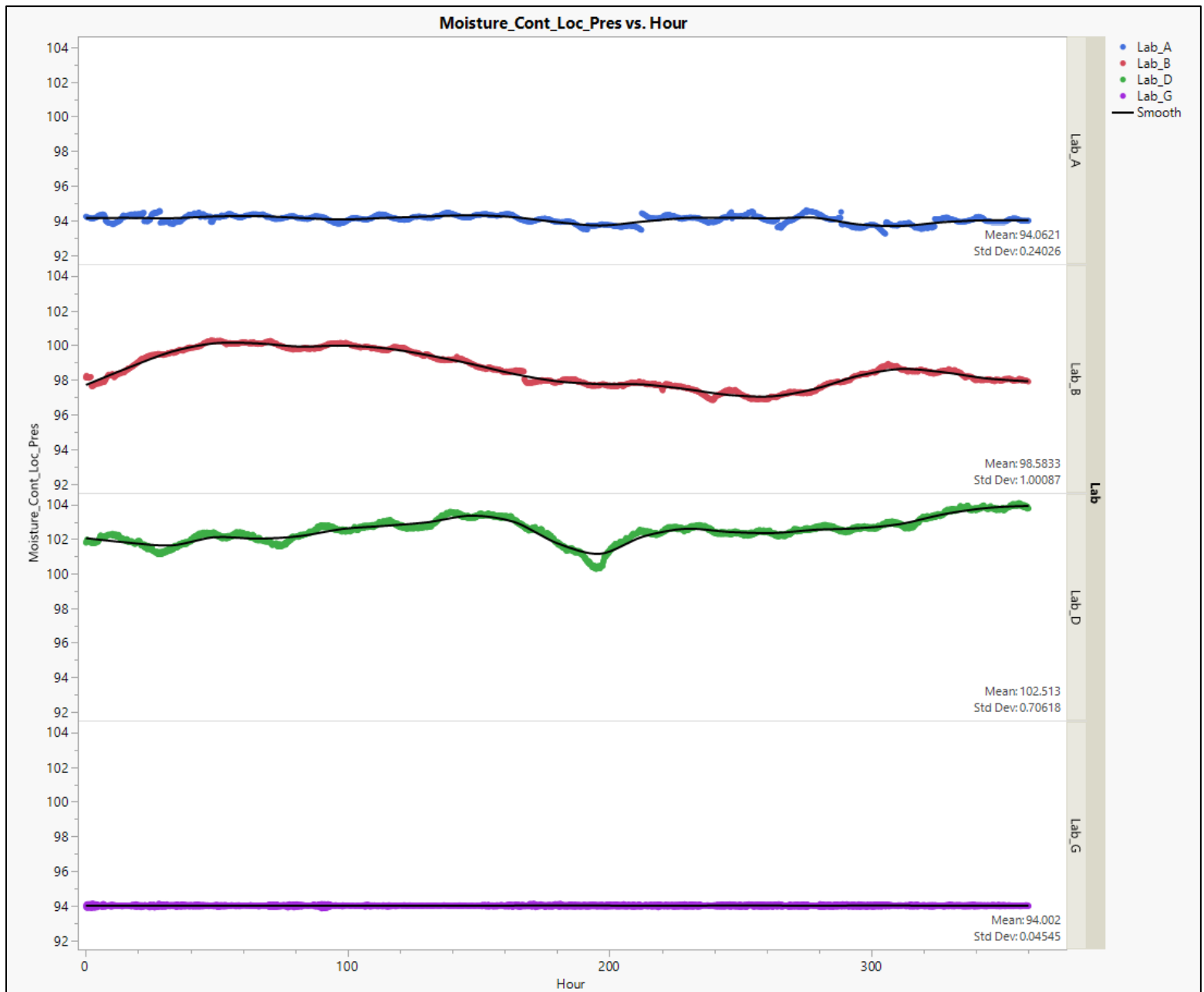


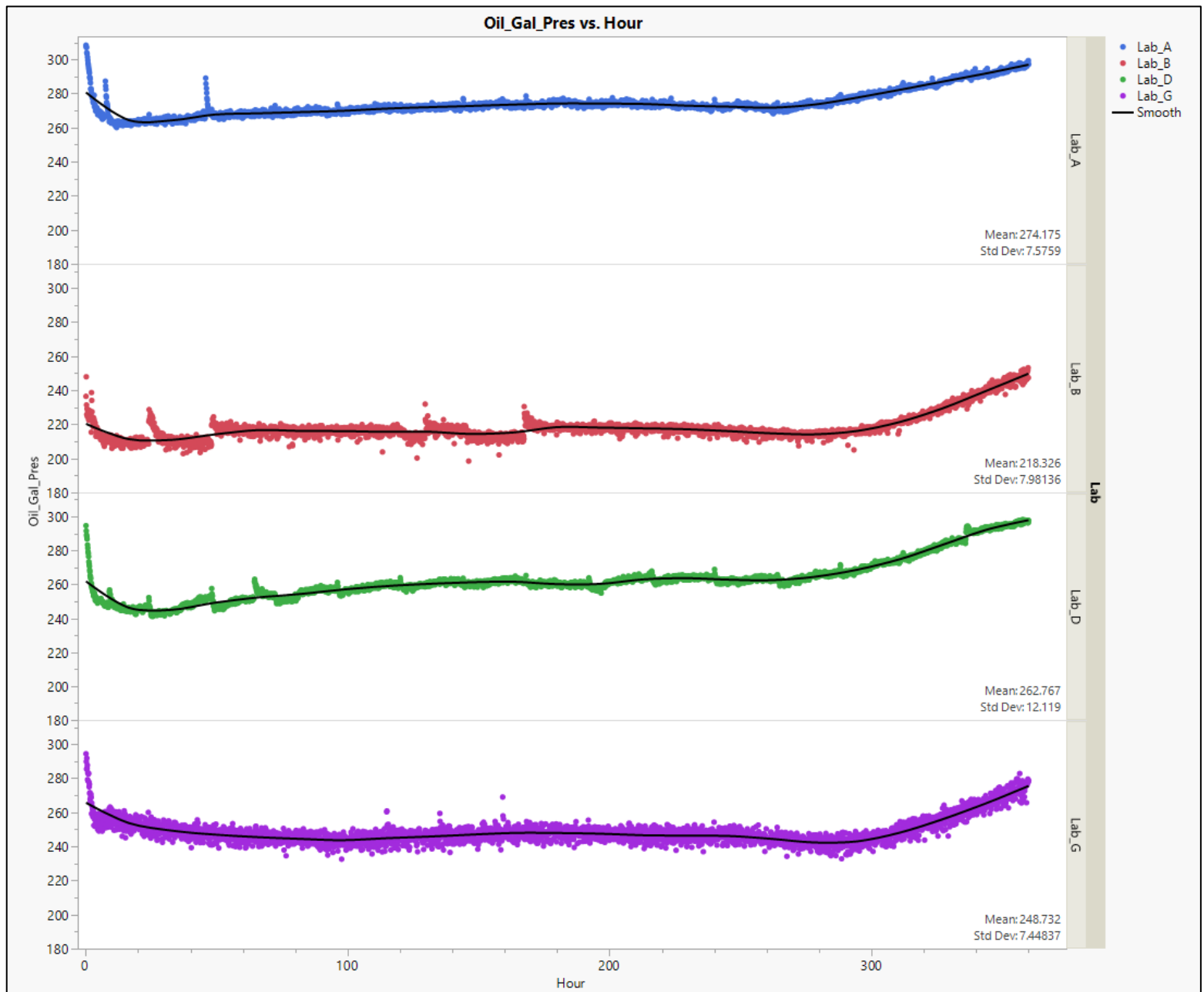
Results omitted on following slide

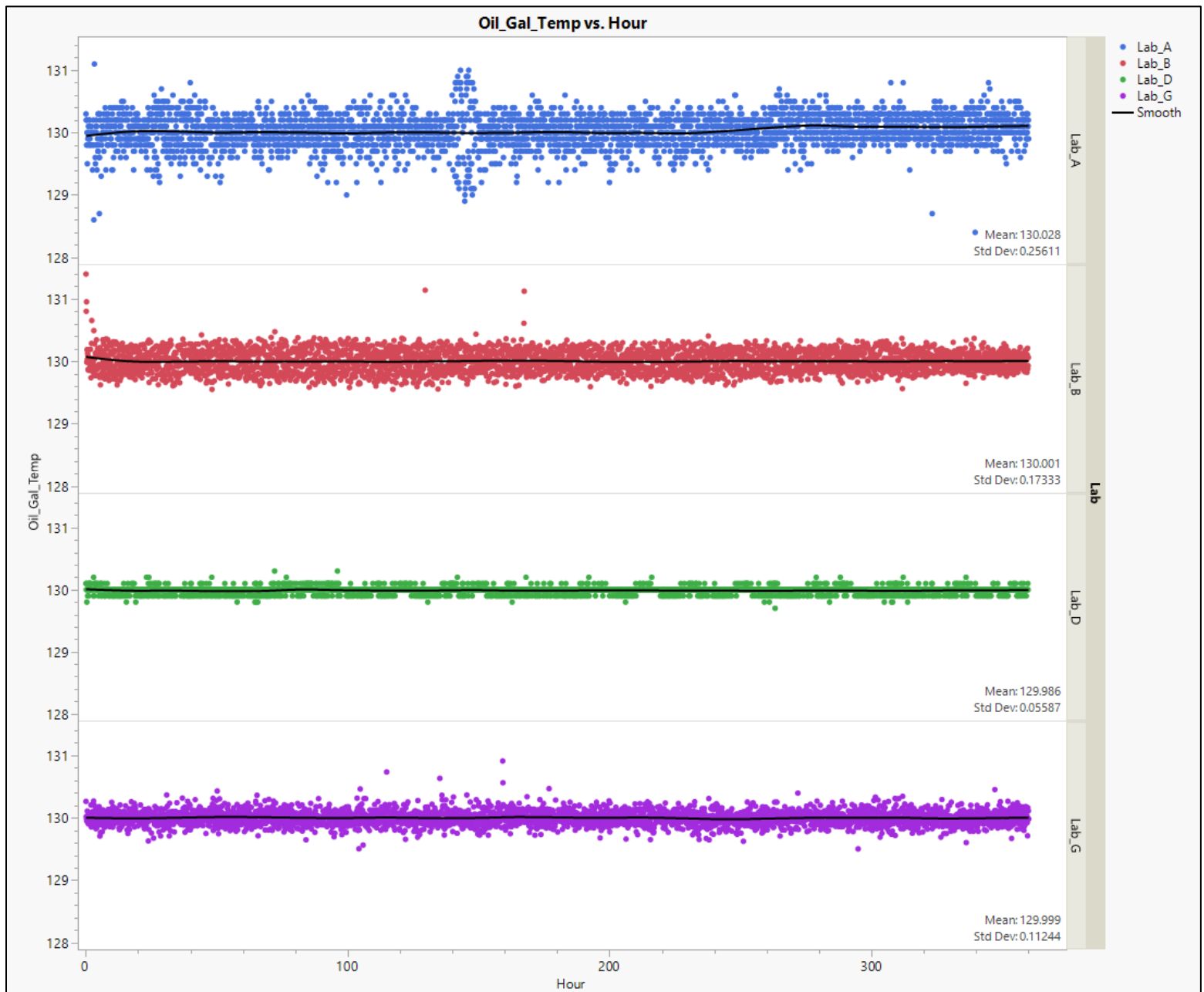


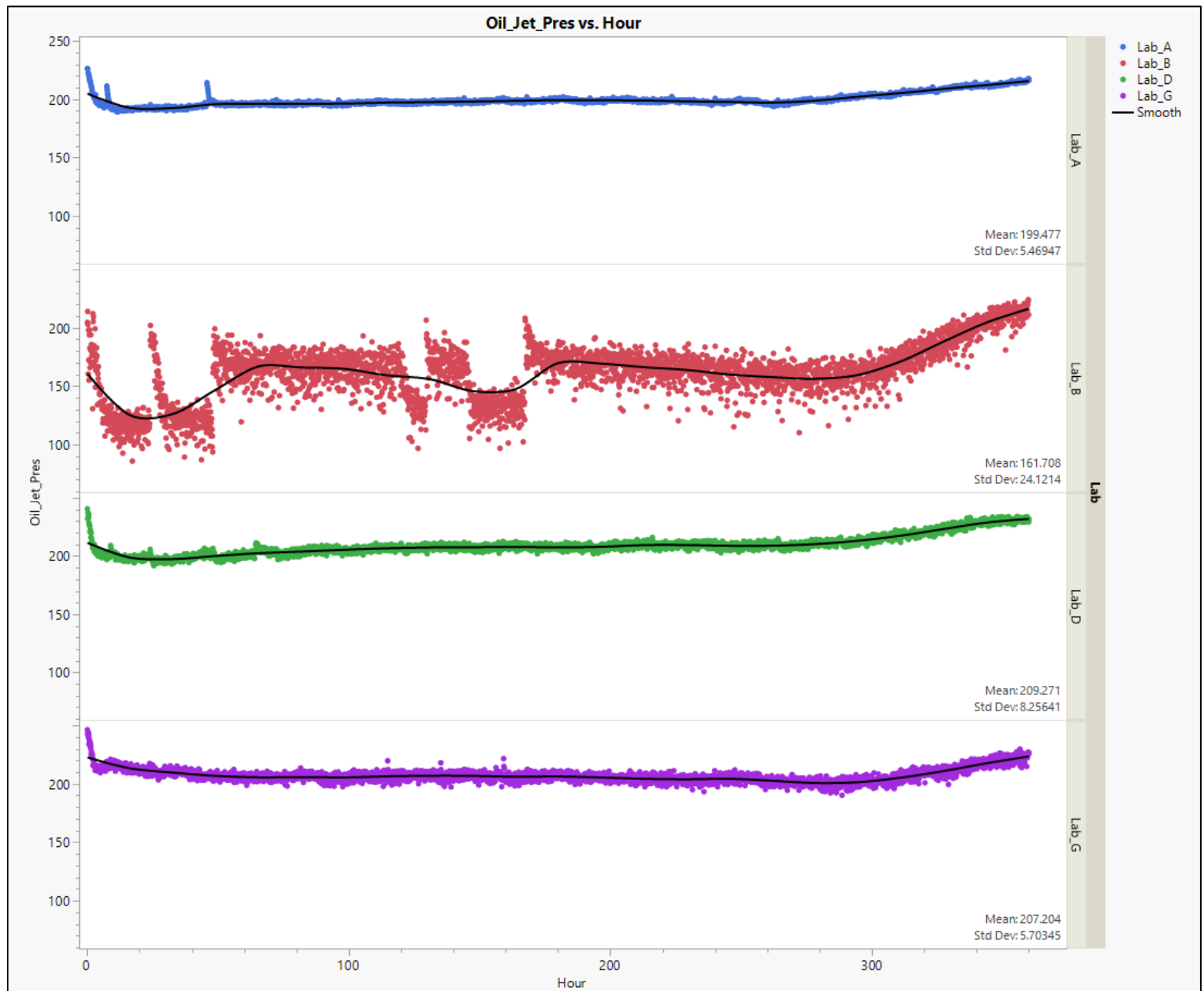
Same Plot as Previous Slide – with high values removed from Lab D

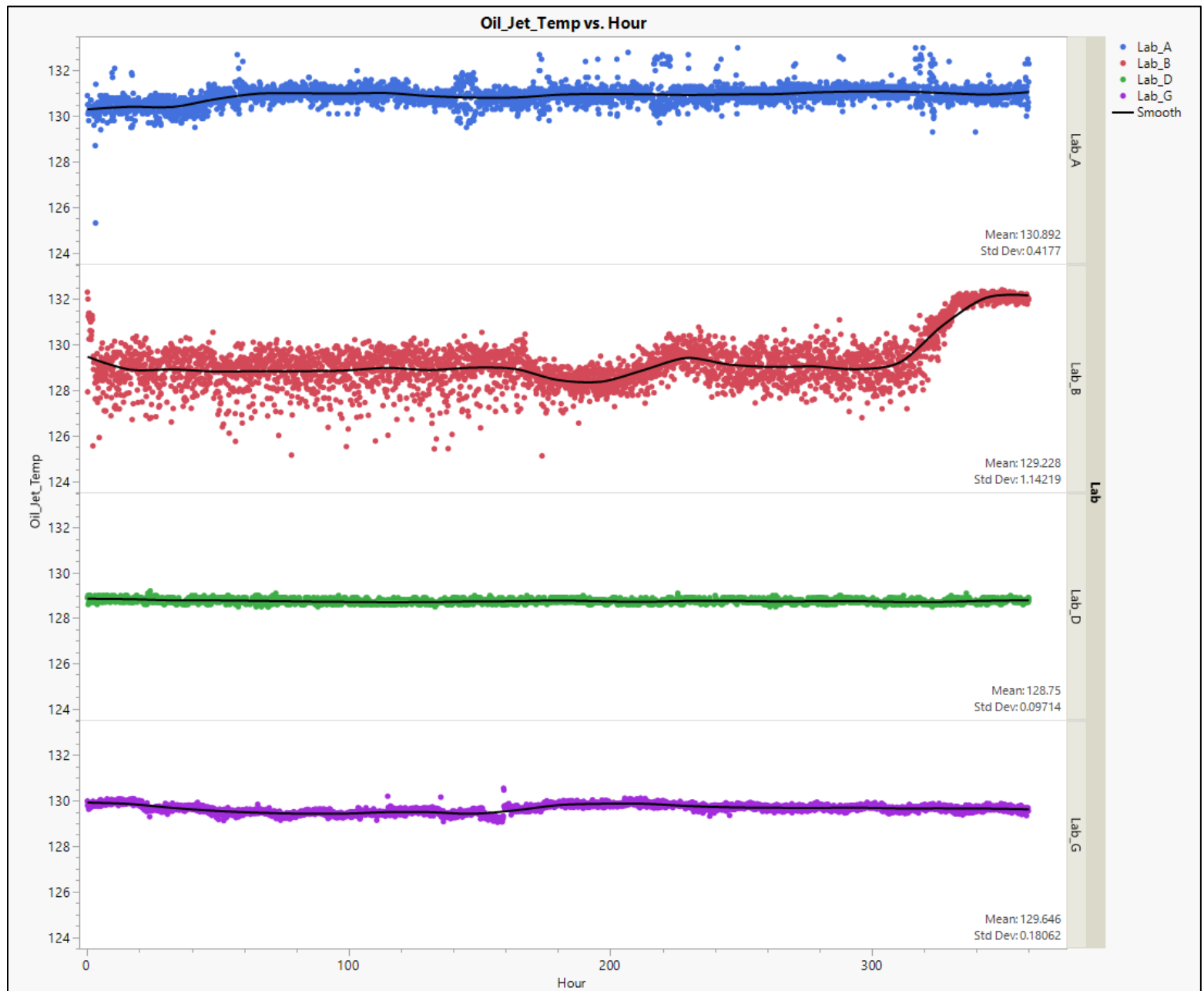


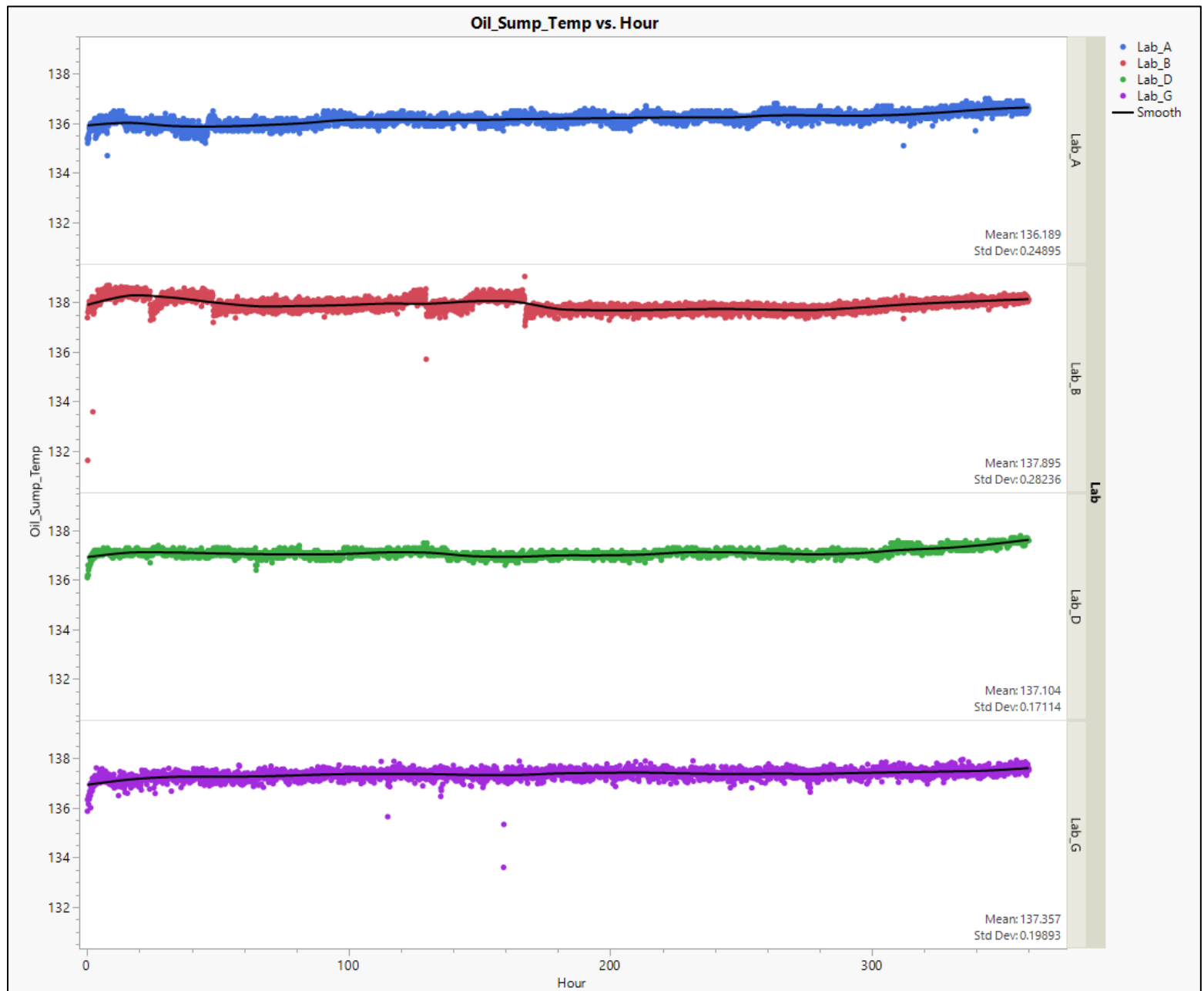


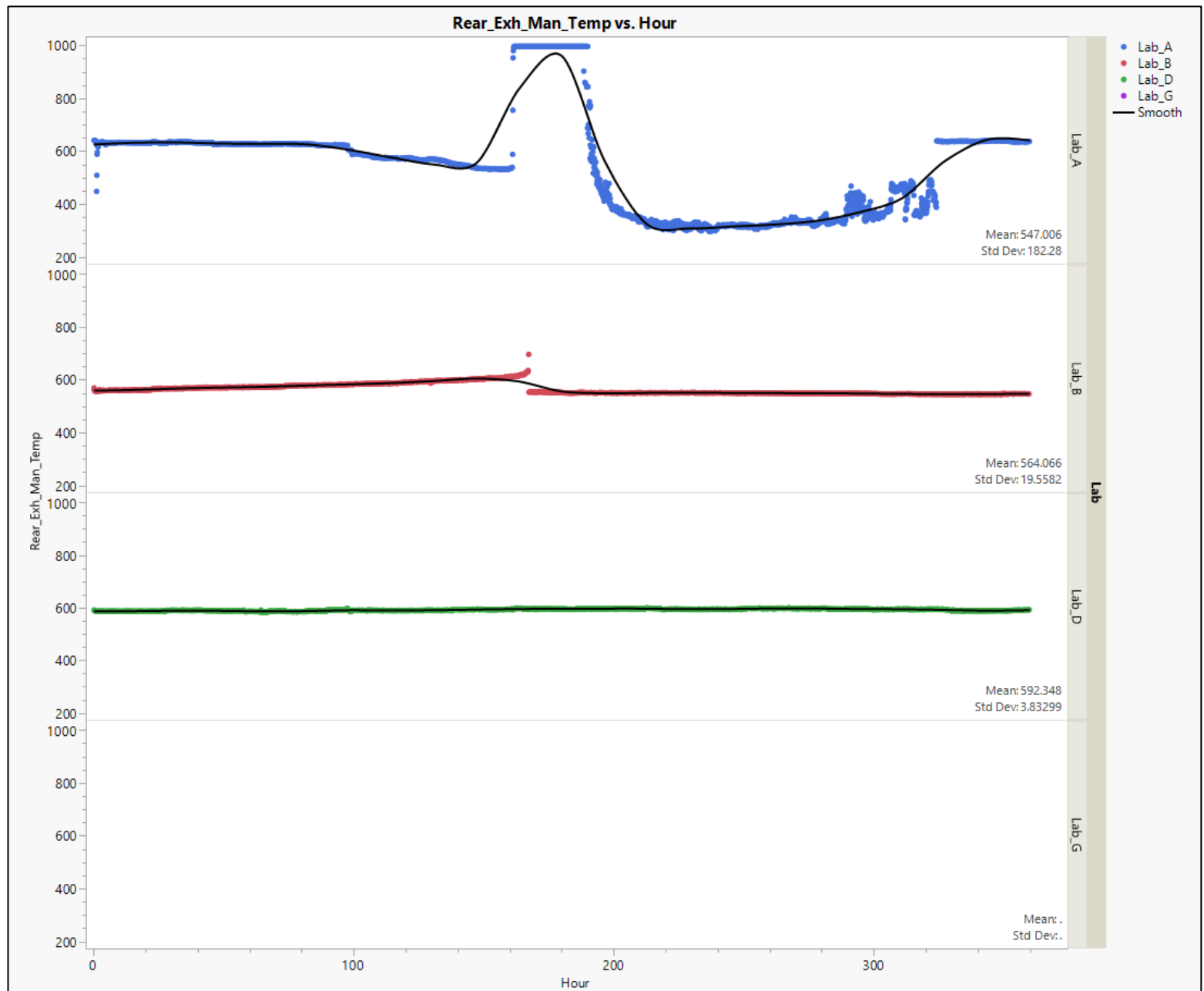


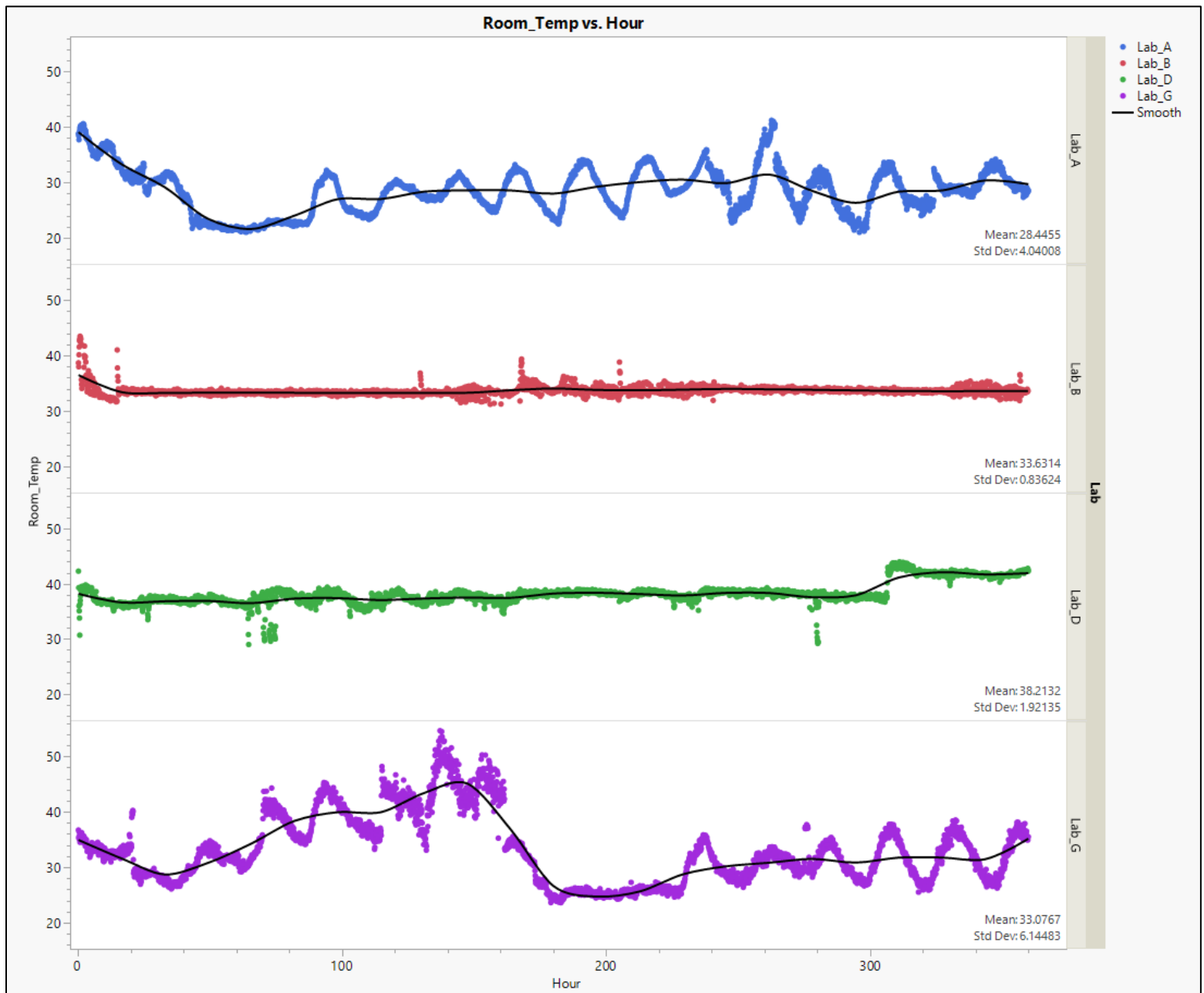


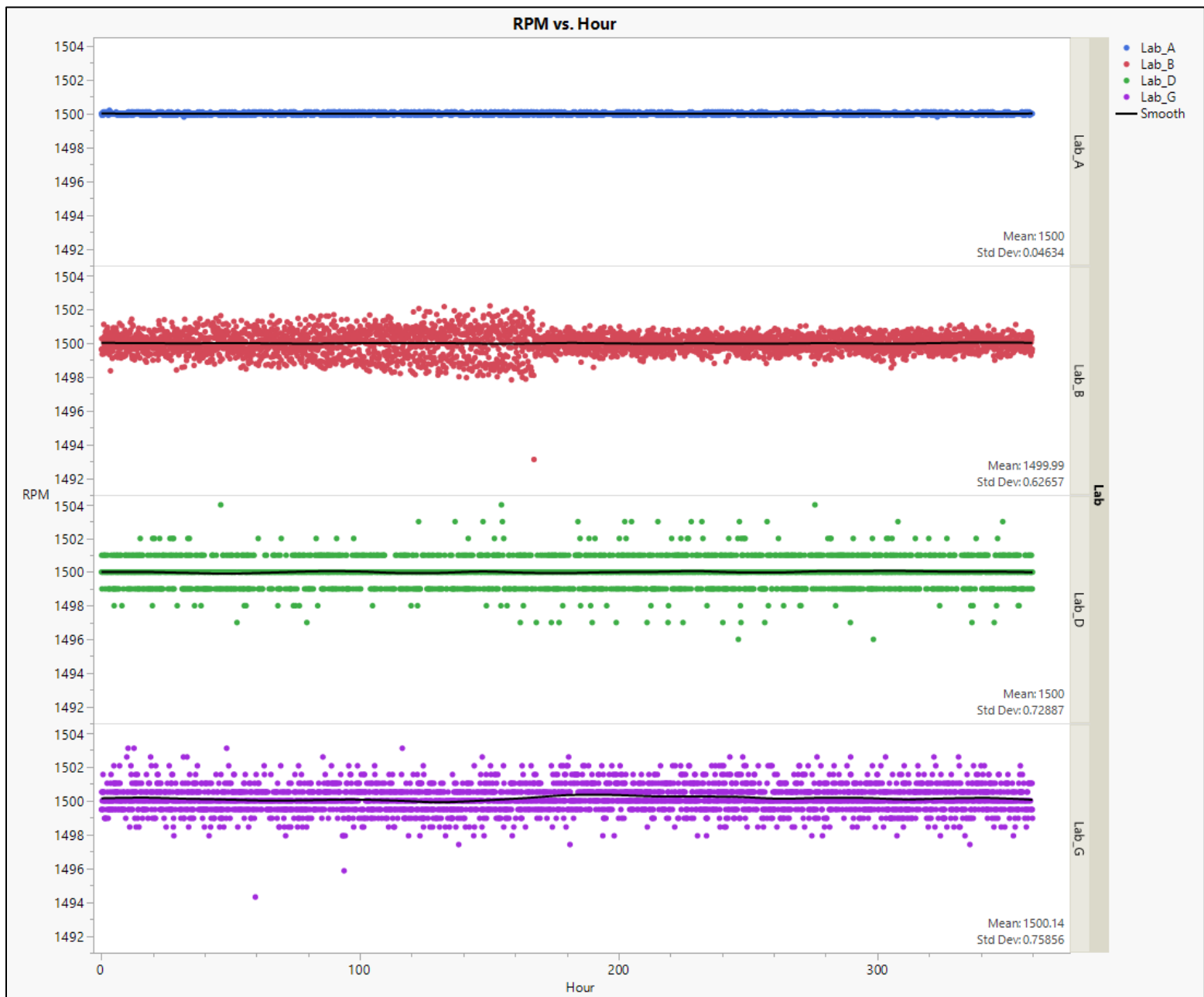


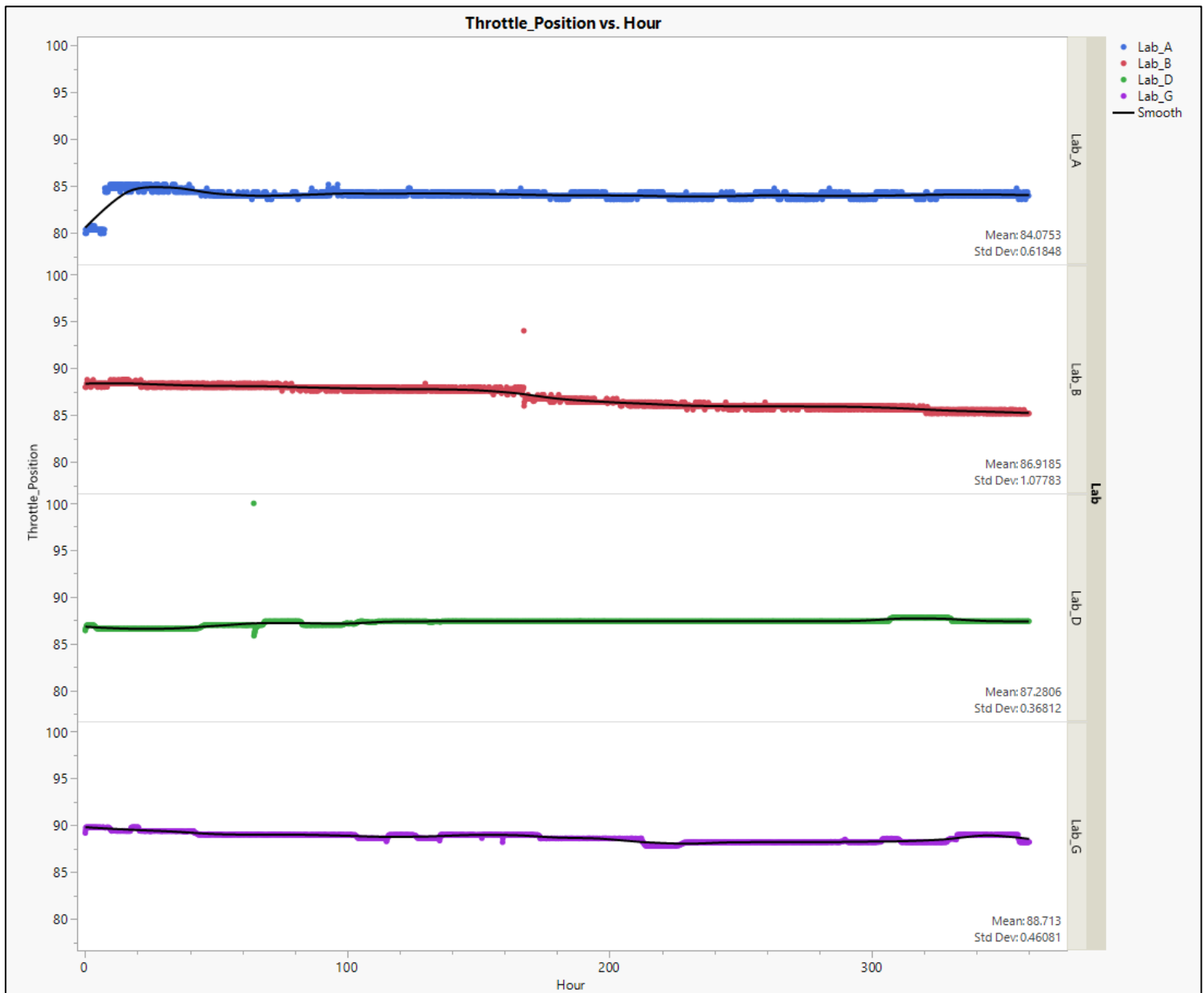


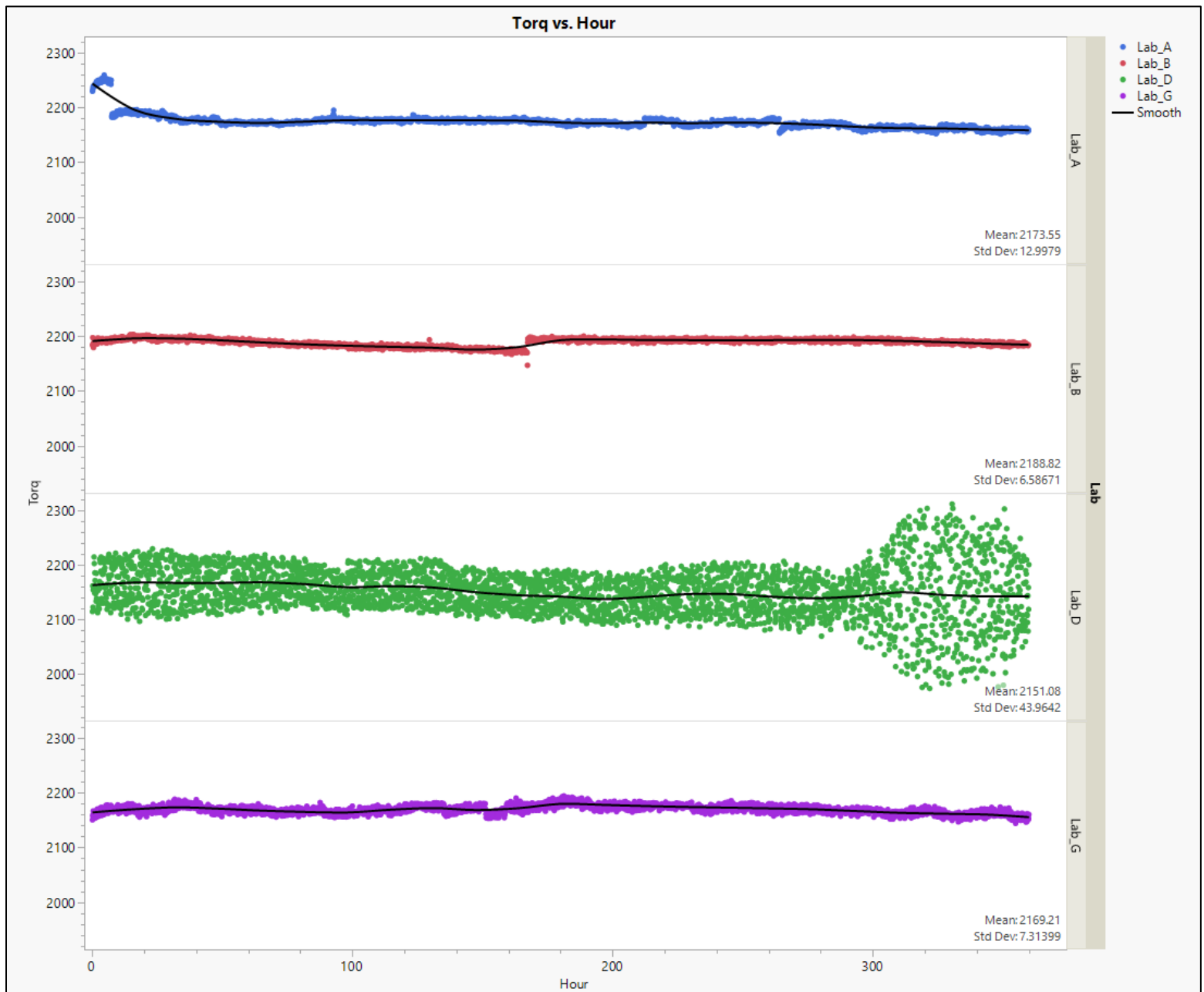


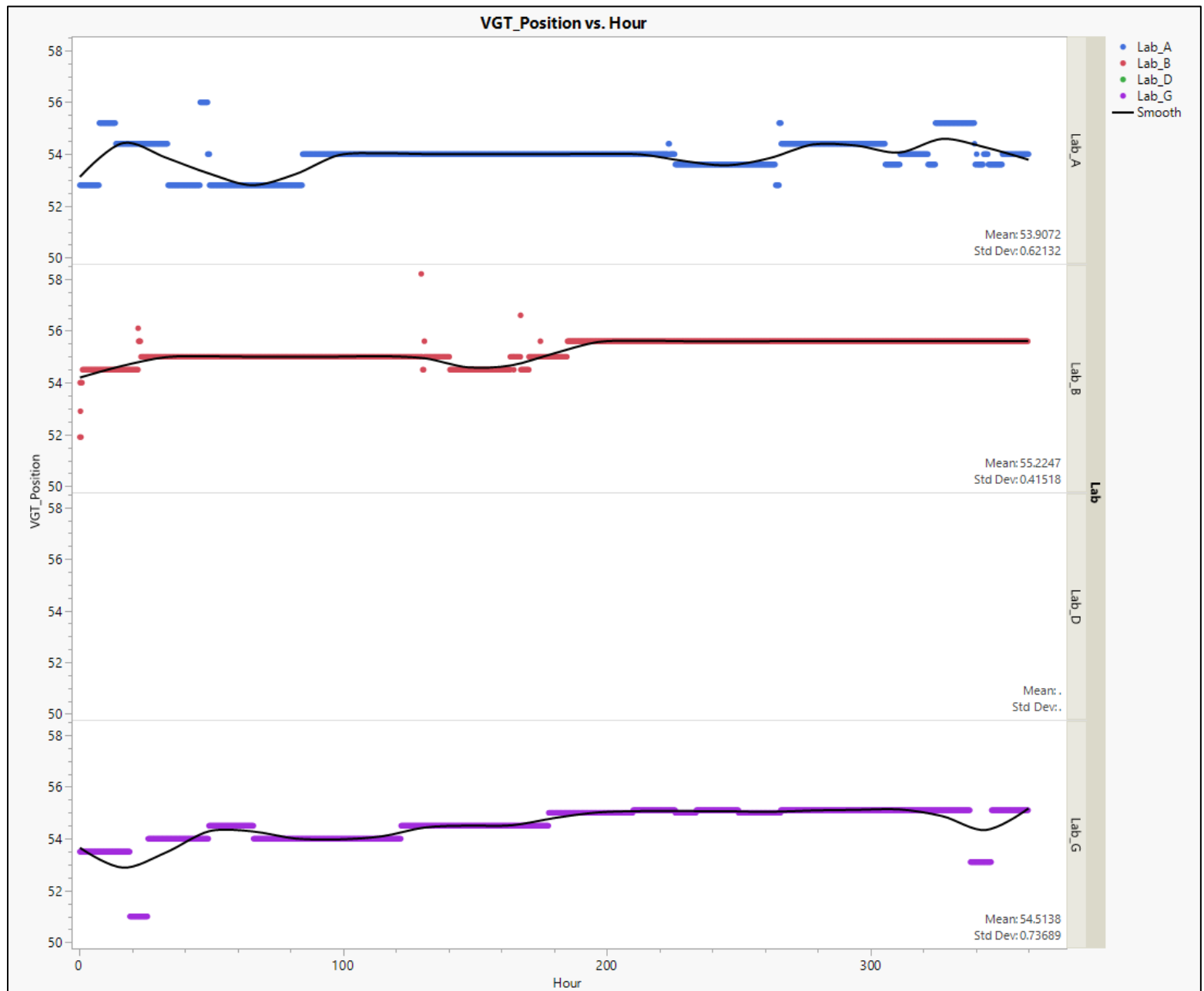












Data Dictionary:

Operational Data Label	Units	Abbreviated Data Label
Test Time	h	Hour
Speed	rpm	RPM
Fuel Flow	kg/h	Fuel_Flow
Coolant Out Temp.	°C	Cool_Out_Temp
Oil Gallery Temp.	°C	Oil_Gal_Temp
Inlet Air Temp.	°C	IAT
Intake Manifold Temp.	°C	Int_Man_Temp
EGR Gas Out Temp.	°C	EGR_Out_Temp
Fuel In Temp.	°C	Fuel_In_Temp
Intake Air Press.	kPaA	Int_Air_Pres
Exhaust Back-Press.	kPaA	Exh_Back_Pres
Inlet Air Moisture Content	g/kg	Inlet_Air_Moisture
Intake Manifold Press.	kPaG	Int_Man_Pres
Torque	Nm	Torq
Coolant In Temp.	°C	Cool_In
Crankcase Press.	kPaG	Crank_Pres
Front Exhaust Manifold Temp.	°C	Front_Exh_Man_Temp
Rear Exhaust Manifold Temp.	°C	Rear_Exh_Man_Temp
Exhaust Tailpipe Temp.	°C	Exh_Tailpipe_Temp
Oil Gallery Press.	kPaG	Oil_Gal_Pres
Oil Sump Temp.	°C	Oil_Sump_Temp
Oil Jet Temp.	°C	Oil_Jet_Temp
Oil Jet Press.	kPaG	Oil_Jet_Pres
Fuel Gallery Temp.	°C	Fuel_Gal_Temp
Fuel Gallery Press.	kPaG	Fuel_Gal_Pres
Intercooler Out Temp.	°C	Intercool_Out_Temp
Intercooler Out Press.	kPaG	Intercool_Out_Pres
Compressor Out Temp.	°C	Comp_Out_Temp
Compressor Out Press.	kPaG	Comp_Out_Pres
Room Temp.	°C	Room_Temp
EGR Position	%	EGR_Position
VGT Position	%	VGT_Position
Throttle Position	%	Throttle_Position
Blowby	L/min	BlowBy
Inlet Air Dew Point	°C	Inlet_Air_Dew_Point
Moisture Content Location Pressure	kPaA	Moisture_Cont_Loc_Pres