

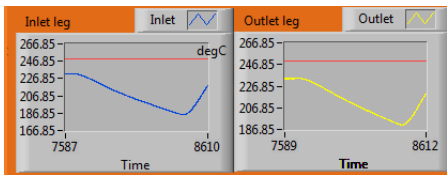
Column Installation 2020_02_08

Notebook: Experimental

Created: 2020/02/09 19:41

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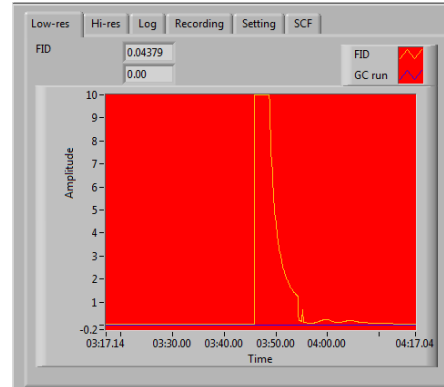
Rails aligned	14:30 Don't push on rails.
Column threaded	14:35
Coaxial heater assembly mounted	14:46
Heaters inserted	15:01 Divoted Inlet: Bottom left Detector: Bottom left
Thermocouples inserted	15:11
Manifold bolted down	15:11
Cryo leak check	15:28 Required tightening for detector-end micro-union
Electrical connections	Lead solder
Remove plastic clips	OK
Final position	Inlet 19:02 Detector 19:09
Slide collars tightened	
Hydrogen leak check	Inlet 19:02 Detector 19:09
Hydrogen flow check	
FID flows check: Total H2	39.9
FID flows check: Air	304.8
Heater check	
Insulation tucked	N/A
Calibration trim	Trimmed

$$m = 0.8685$$

$$c = -9.34$$

GC injection check

6 microlitre hexane

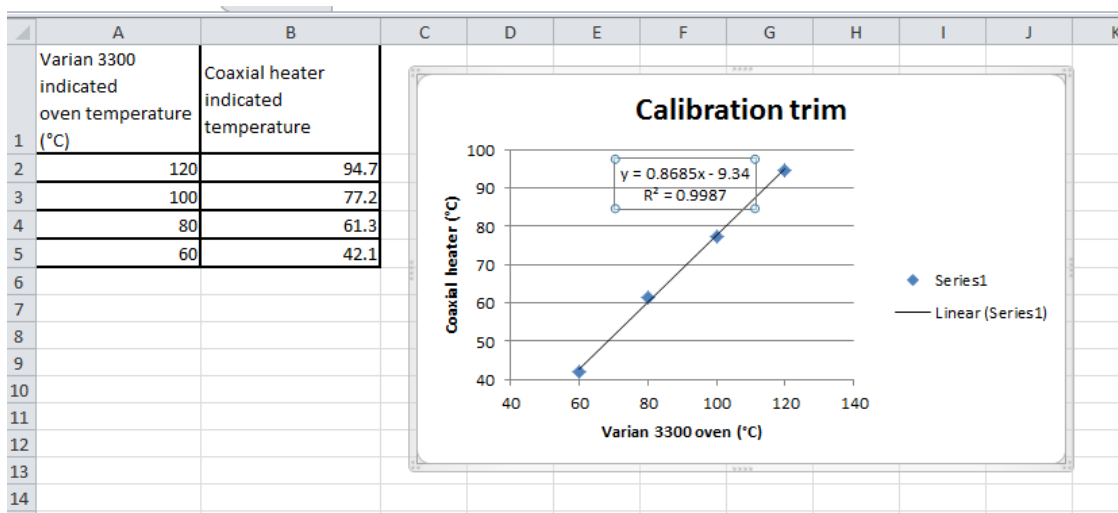


Calibration trim:

Calibration trim procedure:

1. Set trim to $c = 0$, $m = 1$
2. Collect calibration data.
3. Fit line to data:
 - x-axis thermocouple reading
 - y-axis coaxial heater reading
 - c is y-intercept
 - m is slope
4. Copy c and m to boxes above.
5. Set to default values.
6. Run the program
7. Check calibration

Varian 3300 indicated oven temperature (°C)	Coaxial heater indicated temperature
120	94.7
100	77.2
80	61.3
60	40



$$m = 0.8685$$

$$c = -9.34$$