SE dispensing Sept 19

create code called:
File2019Sept19_StaveletQuads3_forStaveletLoading

approximate stavelet height:
for araldite:
z = 121.3
for SE:
z = 129
for height gauge:
z = 101.3
for pick up tool:
z = 121.4

input starting positions for:
for araldite:
z = 115
for se:
z = 123
for height gauge:
z = 95
for pick up tool:
z = 115

approximate zero:
x = 273.44
y = 281.31
(x is the important one because we have 1 mm on each side)

fixed vectors for the "plus" sign, B and C were not treated properly in the vectors

starting position for dispensing tip of the first stavelet:
y = 281.31+11.75 + 21 = 314.06 (starting position)
pallet routine will have 2 positions spacing between them will be 42+3 = 45
x doesn't change in pallet routing
x = 273.44+0.6 +19 = 293.04 (starting position)

starting position of the height gauge:
from aug 1:
diff height gauge and dispense tip:
deltaX = 59.055
deltaY = 72.77

x = 274.44+59.055 + 0.6 + 19 = 353.095
y = 293.06+72.77 + 21 = 386.83

to do one at a time I need to "hack" the code a bit
need to subtract 45 from the y positions and make the pallet row a length of 3

tip position:
x = 293.44
y = 314.06 - 45 = 269.06

gauge positions:
x = 353.495
y = 386.83 - 45 = 341.83

SE out of freezer at 10:55
araldite calibration (x = 80, y = 300 as usual)
z = 139.987
SE tip calibration (x = 80, y = 300)
z = 147.217

SE mass test:
psi = 7.5, 7 h20
0.577

sample 2 placed nut for 6.5 min

re-adjust slide placement in x by 0.6 (previous calculations in this note are adjusted)
- for heater placement adjust the placement height by 0.45 mm
this is changed in both StaveletQuads2 (which is placing a 4 by 4 grid on the glass plate) and in the "forStaveletLoading"

SE (L2) out at 2:50
se tip calibration:
z = 147.517
araldite tip calibration:
z = 139.87

mass test:
7.5 psi s7 h20
0.577

2nd sample

first heater placement on the stavelet!!
notes: wicks were too long. we moved them out of the way but they weight the heater down and threw off the levelness

we ran 2 heaters on glass and