

August 29, 2019

notes continued from previous 2 notes (dispensed the outer ring se this morning and half of the se for the inner ring)

SE out of freezer at 2:32 (k4)

araldite calibration at 2:37:

$x = 80,$

$y = 260$

measure $z = 139.962$

enter z into pointjob 26

mass test of SE:

0.15g (twice)

slide placement of 4th sample of quad2 program:

$x = 200.09$

$y = 333.605 + 26 * 3 = 411.605$

$z = 133$

to move slide into position (offset from syringe tip position)

$\Delta X = +0.2$

$\Delta Y = -0.4$

place slide

+0.4 becomes +0.35

so placement height is 0.25 above glass instead of 0.20

ok NEW se (k5) 4:00

araldite calibration at 139.7

araldite in syringe at 4:10

mass test: same as last time -> program 19, wait time 850, 4 psi

0.16g

star test -> looks good

its 4:20

star pattern needs to be more +x???

add 0.4

placement work adjustment does not depend on placement initial z

move initial z to 130 instead of 133 to avoid touching SE before placement

0-z for the pickup tool:

$z = 139.7$

new rubber cup:

139.67

0z for the se tip:

$z = 148.167$

deltaZ =

new SE tip:

147.425

re zero the pick location:

$z = 139.642$

se(k7) out at 6:06

mass test: 0.16g

from aug 1:

diff height gauge and dispense tip:

$\text{deltaX} = 59.055$

$\text{deltaY} = 72.77$

zero at

$x = 80 + 59.055 = 139.055$

$y = 260 + 72.77 = 332.77$

difference btw. SE tip and pick up tool (with suction cup)

$139.67 - 147.425 = - 7.755$