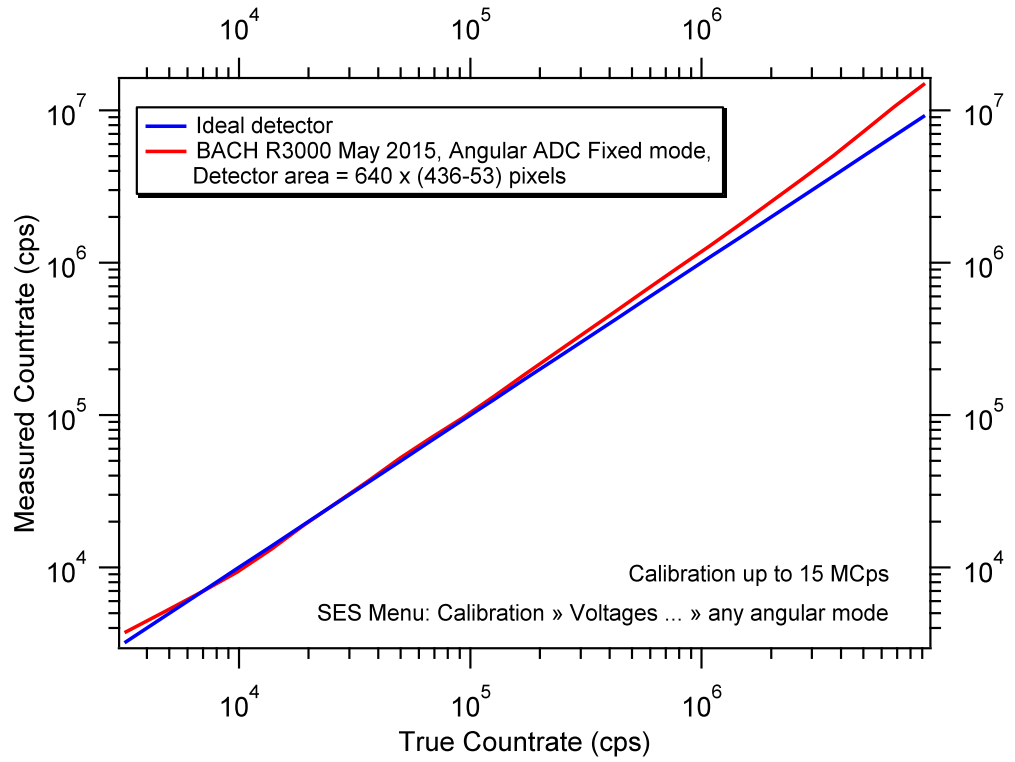
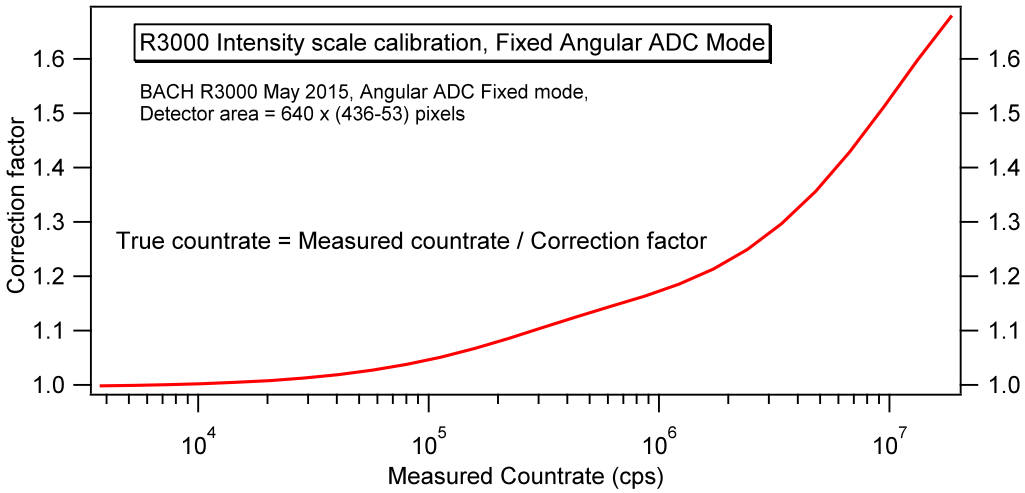
R3000 XPS Intensity scale calibration, Angular Modes, BACH, May 2015

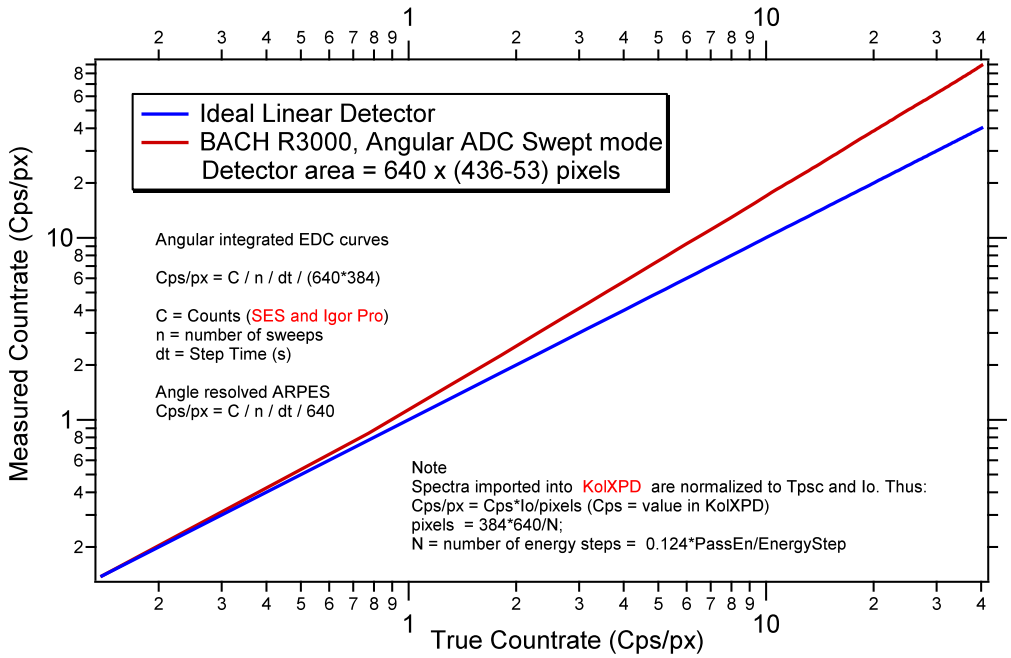
Important Note: All calibration curves were done with detector area set to 640x384 px^2, where 640px corresponds to full x (energy) scale, 384px to Y-(angular) scale between 53 and 436px.

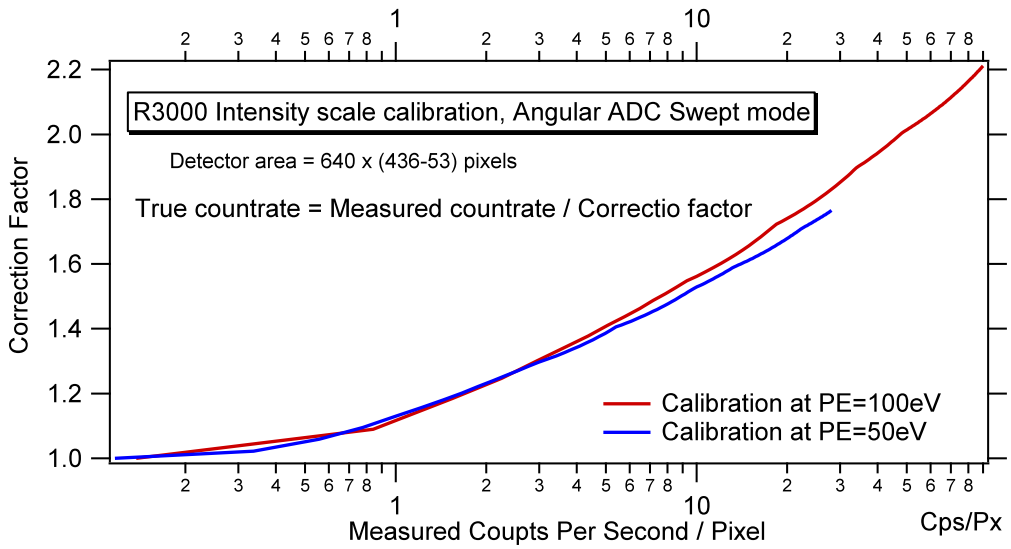
Fixed Mode (Calibration → Voltages...→ Area)





Swept Mode





Approximate relation between intensity in swept mode and fixed mode (full detector range):

SES, Igor Pro:

Cps = C / n/ StepTime (1)

Here,

Cps = couts per second in fixed mode (approximately what we would see in Calibration → Voltages →Area)

C= counts in spectrum point acquired in swept angular mode

n = number of sweeps

KolXPD , if Io reading is ON and txt file was imported. If ibw file was opened accidently, use formula 1)**:**

Cps = C * Io *N (2)

N = Number of steps = 0.124*PassEnergy/EnergyStep