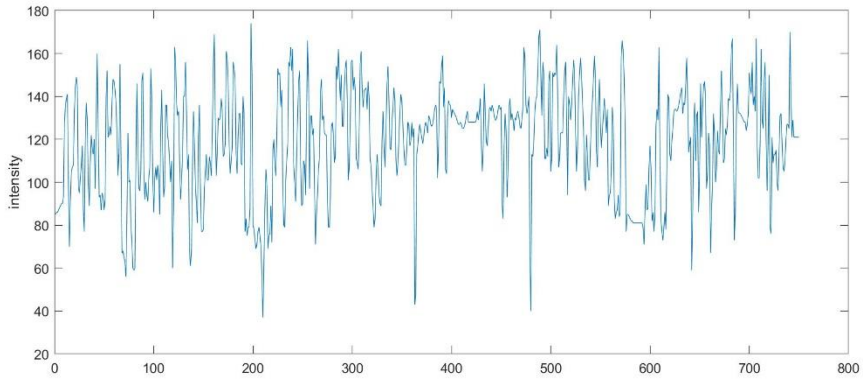
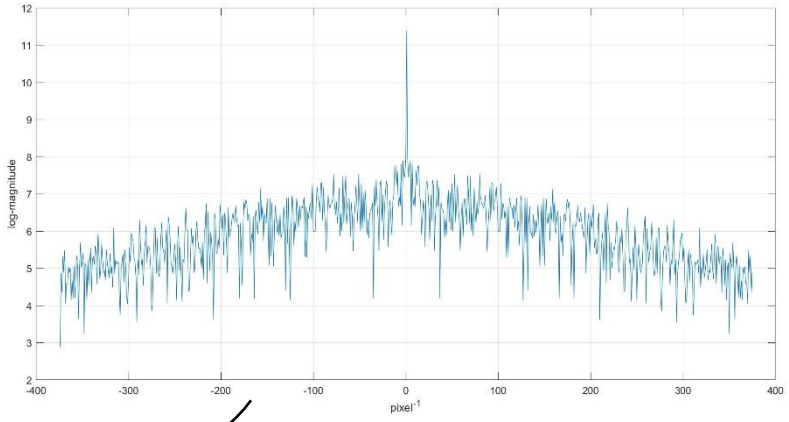
$$\mathcal{F}\left(f(t)\right) = F(\mu) = \int_{-\infty}^{+\infty} f(t) e^{-j2\pi\mu t} dt$$

$f(t)$



$F(\mu)$



$$\mathcal{F}^{-1}\left(F(\mu)\right) = f(t) = \int_{-\infty}^{+\infty} F(\mu) e^{j2\pi\mu t} d\mu$$